

Almanaque Náutico simplificado 2015

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Prólogo

¿Por qué algunos de los países más adelantados del mundo, a pesar de todos los desarrollos tecnológicos, mantienen en funcionamiento sus observatorios astronómicos? Es una pregunta que le planteó a la Dirección General Marítima el Ph.D. José Gregorio Portilla Barbosa, Director del Observatorio Astronómico Nacional de Colombia, de la Universidad Nacional.

Muy seguramente para los navegantes la respuesta podría ser obvia; la navegación astronómica es una ciencia perenne. En caso de que falle el sistema de posicionamiento global, del cual dependemos en muchas actividades de nuestra vida cotidiana, es la navegación astronómica -sin duda- la que permitirá al oficial de puente en un buque determinar su posición.

Esto está claro también para la Organización Marítima Internacional (OMI), la cual en los diferentes foros relacionados con estándares en entrenamiento, certificación y guardia de mar lo estableció y dispuso así en el Código STCW. El Código es la recopilación de los primeros requerimientos establecidos en el ámbito internacional en entrenamiento, certificación y guardia de mar para marinos, acordados en la convención celebrada en Londres, en el año de 1978. Las normas relativas al capitán y a la sección del puente especifican que entre los requisitos mínimos aplicables a la titulación de los oficiales que hayan de encargarse de la guardia de navegación en buques de arqueo bruto igual o superior a 500 UAB, para ser acreedores al título respectivo, han de demostrar competencia para llevar a cabo tareas, cometidos y responsabilidades entre las que se encuentra conocimiento, comprensión y aptitud en navegación astronómica, de manera que estén en capacidad para determinar la situación del buque utilizando cuerpos celestes.

En la Armada Nacional de Colombia ha sido tradición en la formación de sus oficiales y algunos cuerpos de suboficiales, la capacitación en navegación astronómica. La principal escuela de entrenamiento en este arte es, sin duda alguna, el buque escuela ARC ?Gloria?. No obsta lo anterior que esta práctica también es desarrollada en otros buques capitales de la Marina de Guerra, al ser esta una actividad instituida en los anales de las tradiciones navales.

Pero la navegación astronómica no está limitada solo a estos usos. Los navegantes deportivos podrán disfrutar con este Almanaque Náutico de una herramienta que les permitirá ejercitar este apasionante arte; como muchos otros hacer lo propio en diferentes usos. Quizás tan solo la apacible observación de la bóveda celeste.

Todas estas razones han llevado a la Dirección General Marítima a convenir con la Universidad Nacional de Colombia el desarrollo de este especial proyecto, a partir del concurso de funcionarios de las dos entidades, pero en especial a la pertinencia del señor Suboficial Jefe Técnico de la Reserva Activa Germán Alberto Díaz Flórez, quien por muchos años se dedicó a la instrucción de la materia navegación costera, astronómica y electrónica en la Escuela Naval de Cadetes ?Almirante Padilla?, y tuvo a su cargo la dirección del planetario del alma mater de la oficialidad naval. A partir de su experiencia y estudio vislumbró la necesidad de que la institucionalidad marítima y naval del país editara este Almanaque Náutico, que con gran orgullo se presenta hoy ante la academia y el gremio marítimo nacional.

Es de todo el interés de la Dirección General Marítima que con la publicación de este Almanaque Náutico, como herramienta para la navegación astronómica, y las acciones venideras que se puedan impulsar en esta misma senda, el país continúe en pos de su desarrollo, también en el campo marítimo.

Contralmirante Ernesto Durán González
Director General Marítimo

Introducción

En la actualidad los buques determinan su posición en alta mar con ayuda de sistemas satelitales o instrumentos electrónicos que pueden ser afectados por codificaciones o fallas propias de su composición. Por ello, la Organización Marítima Internacional (OMI) a través del Convenio Internacional sobre Normas de Formación, Titulación y Guardia para la Gente de Mar, 1978 (STCW-78), considera que los oficiales encargados de la guardia de navegación deben demostrar conocimientos, comprensión y suficiencia en navegación astronómica. Así mismo, para los profesionales de la navegación es indiscutible que la seguridad en el mar es fundamental y, por ende, la navegación con ayuda de los astros representa un mecanismo de apoyo para verificar el correcto funcionamiento de los equipos de posicionamiento electrónicos, además de ser un sistema alternativo en caso de avería de los mismos.

Este Almanaque Náutico se ha subtítulo como Simplificado, en busca de llevar la astronomía náutica a su mayor practicidad y utilidad posible. Es por esto que solo se han incluido las coordenadas celestes del punto de Aries, el Sol y las 48 estrellas más brillantes, teniendo en cuenta que estos requieren menos correcciones. El formato de las Tablas de correcciones de las alturas permite una rápida consulta, con una menor opción de duda de la corrección respectiva. Se han dispuesto Tablas adicionales de conversión de medidas angulares a tiempo que facilitan la consulta. Las horas del orto, el ocaso y los crepúsculos de la observación se han dispuesto de tal forma que se evitan ciertas interpolaciones. Esta primera versión no incluye las Tablas de reducción de alturas que reemplaza las Tablas Americanas 229, necesarias en la parte final del proceso de obtención de una línea de posición de un astro; sin embargo, se tiene contemplado su inclusión para la emisión del almanaque náutico del año 2016.

Los datos contenidos en la presente publicación fueron desarrollados en su totalidad con códigos escritos en Fortran 77 y posterior edición en \LaTeX . Los autores esperan que este Almanaque Náutico sea un aporte significativo a la seguridad de la navegación marítima del presente.

Finalmente, agradecemos el apoyo brindado al Señor Director y al Grupo de Planeación de la Dirección General Marítima, a la Vicerrectoría de Investigación y la Facultad de Ciencias de la Universidad Nacional de Colombia.

G. Díaz & G. Portilla

Calendario colombiano civil y religioso - 2015

Evento	Día	Fecha
Circuncisión del Señor	Jueves	1 de enero
Epifanía	Lunes	12 de enero (T)
Septuagésima	Domingo	1 de febrero
Miércoles de Ceniza	Miércoles	18 de febrero -no festivo-
San José	Lunes	23 de marzo (T)
Domingo de Ramos	Domingo	29 de marzo
Jueves Santo	Jueves	2 de abril
Viernes Santo	Viernes	3 de abril
Pascua	Domingo	5 de Abril
Día del Trabajo	Viernes	1 de mayo
Ascensión del Señor	Lunes	18 de mayo (T)
Pascua de Pentecostés	Domingo	24 de mayo
Corpus Christi	Lunes	8 de junio (T)
Sagrado Corazón	Lunes	15 de junio (T)
San Pedro & San Pablo	Lunes	29 de junio (T)
20 de Julio	Lunes	20 de julio
Batalla de Boyacá	Viernes	7 de agosto
Asunción	Lunes	17 de agosto (T)
Día de la Raza	Lunes	12 de octubre (T)
De Todos los Santos	Lunes	2 de noviembre (T)
Independencia de Cartagena	Lunes	16 de noviembre (T)
Inmaculada Concepción	Martes	8 de diciembre
Natividad	Viernes	25 de diciembre

T: Se traslada al lunes por Ley 51 de 1983.

Fases de la Luna (en TU) - 2015

Luna Nueva		Cuarto Creciente		Luna Llena		Cuarto Menguante	
Mes	d h m	Mes	d h m	Mes	d h m	Mes	d h m
Enero	20 13 14	Enero	27 04 48	Enero	05 04 53	Enero	13 09 46
Febrero	18 23 46	Febrero	25 17 14	Febrero	03 23 09	Febrero	12 03 49
Marzo	20 09 35	Marzo	27 07 42	Marzo	05 18 04	Marzo	13 17 48
Abril	18 18 56	Abril	25 23 54	Abril	04 12 05	Abril	12 03 44
Mayo	18 04 13	Mayo	25 17 18	Mayo	04 03 42	Mayo	11 10 35
Junio	16 14 05	Junio	24 11 02	Junio	02 16 19	Junio	09 15 41
Julio	16 01 23	Julio	24 04 04	Julio	02 02 19	Julio	08 20 24
Agosto	14 14 52	Agosto	22 19 31	Julio	31 10 42	Agosto	07 02 02
Septiembre	13 06 41	Agosto	22 19 31	Agosto	29 18 35	Septiembre	05 09 53
Octubre	13 00 06	Septiembre	21 08 58	Septiembre	28 02 51	Octubre	04 21 05
Noviembre	11 17 46	Octubre	20 20 31	Octubre	27 12 05	Noviembre	03 12 23
Diciembre	11 10 28	Noviembre	19 06 27	Noviembre	25 22 43	Diciembre	03 07 40
		Diciembre	18 15 14	Diciembre	25 11 10		

Eclipses 2015

20 de marzo: eclipse total de Sol

No visible en Colombia. Hora de máximo de eclipse: 4^h 46^m hora de Colombia. El eclipse solo se verá total en una estrecha franja sobre sectores del Atlántico Norte y el océano Ártico, comprendida entre Groenlandia e Islandia, y el Reino Unido y la península escandinava. La sombra pasará por las islas Faroe y las islas Svalbard. El eclipse se verá como parcial en toda Europa, este de Groenlandia, sector occidental de Asia y el norte de África.

4 de abril: eclipse total de Luna

Ligeramente visible en Colombia. Hora de máximo de eclipse: 7^h 5^m hora de Colombia. El eclipse se verá en casi todo el océano Pacífico, Australia, extremo occidental de América del Norte y extremo oriental de Asia. Solo el inicio de la fase penumbral y parcial en la madrugada del 4 de abril serán visibles en Colombia hasta que se verifique el ocaso de la Luna sobre el horizonte occidental.

13 de septiembre: eclipse parcial de Sol

No visible en Colombia. Hora de máximo de eclipse: 1^h 42^m hora de Colombia. El eclipse podrá verse en el sur de África, el sur de Madagascar y la mitad este de la Antártica, como también el sector existente de los océanos Índico y Antártico, comprendido entre el extremo sureste de África y la Antártica.

27 de septiembre: eclipse total de Luna

Visible en Colombia. Hora de máximo de eclipse: 21^h 47^m (9^h 47^m pm) del 27 de septiembre hora de Colombia. El eclipse podrá observarse como total en todo el océano Atlántico, el Centro y Sur América, occidente de Norte América, extremo occidental de Europa y África. Todas las fases del eclipse serán observables en Colombia, ver tabla siguiente.

Fase	Hora (Colombia)
	h m s
Entrada a la penumbra	19 11 47
Entrada a la sombra	20 07 11
Ingreso a la totalidad	21 11 10
Salida de la totalidad	22 23 05
Salida de la sombra	23 27 03
Salida de la penumbra (*)	00 22 27

(*) del 28 de septiembre

Tabla A.

Tabla B.

Tabla C.

Corrección altura del ojo			Correcciones refracción, semidiámetro, paralaje SOL								Corrección refracción ESTRELLAS		
Alt. del ojo	Corr.	Alt. del ojo	Octubre-Marzo				Abril-Septiembre				Alt. apte.	Corr.	Alt. apte.
			Alt. apte.	Corr. limb. inf.	Corr. limb. sup.	Alt. apte.	Alt. apte.	Corr. limb. inf.	Corr. limb. sup.	Alt. apte.			
m / m			o / o	/ /	/ /	o / o	o / o	/ /	/ /	o / o	o / o	/ /	o / o
1.0	-1.8	1.1	09 45	+10.9	-21.4	09 55	09 50	+10.7	-21.1	10 01	10 07	-5.2	10 19
1.2	-1.9	1.2	09 56	+11.0	-21.3	10 07	10 02	+10.8	-21.0	10 13	10 20	-5.1	10 31
1.3	-2.0	1.3	10 08	+11.1	-21.2	10 19	10 14	+10.9	-20.9	10 26	10 32	-5.0	10 45
1.4	-2.1	1.4	10 20	+11.2	-21.1	10 32	10 27	+11.0	-20.8	10 39	10 46	-4.9	10 58
1.5	-2.2	1.6	10 33	+11.3	-21.0	10 45	10 40	+11.1	-20.7	10 52	10 59	-4.8	11 13
1.7	-2.3	1.7	10 46	+11.4	-20.9	10 59	10 53	+11.2	-20.6	11 06	11 14	-4.7	11 28
1.8	-2.4	1.9	11 00	+11.5	-20.8	11 14	11 07	+11.3	-20.5	11 21	11 29	-4.6	11 43
2.0	-2.5	2.1	11 15	+11.6	-20.7	11 29	11 22	+11.4	-20.4	11 36	11 44	-4.5	11 59
2.2	-2.6	2.2	11 30	+11.7	-20.6	11 44	11 37	+11.5	-20.3	11 51	12 00	-4.4	12 16
2.3	-2.7	2.4	11 45	+11.8	-20.5	12 00	11 53	+11.6	-20.2	12 09	12 17	-4.3	12 34
2.4	-2.8	2.5	12 01	+11.9	-20.4	12 17	12 10	+11.7	-20.1	12 26	12 35	-4.2	12 52
2.6	-2.9	2.7	12 18	+12.0	-20.3	12 35	12 27	+11.8	-20.0	12 44	12 53	-4.1	13 11
2.8	-3.0	2.9	12 36	+12.1	-20.2	12 53	12 45	+11.9	-19.9	13 03	13 12	-4.0	13 31
3.0	-3.1	3.1	12 54	+12.2	-20.1	13 13	13 04	+12.0	-19.8	13 23	13 32	-3.9	13 52
3.2	-3.2	3.3	13 14	+12.3	-20.0	13 33	13 24	+12.1	-19.7	13 43	13 53	-3.8	14 15
3.4	-3.3	3.5	13 34	+12.4	-19.9	13 54	13 44	+12.2	-19.6	14 05	14 16	-3.7	14 38
3.6	-3.4	3.7	13 55	+12.5	-19.8	14 16	14 06	+12.3	-19.5	14 28	14 39	-3.6	15 02
3.8	-3.5	3.9	14 17	+12.6	-19.7	14 40	14 29	+12.4	-19.4	14 52	15 03	-3.5	15 28
4.0	-3.6	4.2	14 41	+12.7	-19.6	15 04	14 53	+12.5	-19.3	15 17	15 29	-3.4	15 55
4.3	-3.7	4.4	15 05	+12.8	-19.5	15 30	15 18	+12.6	-19.2	15 44	15 56	-3.3	16 24
4.5	-3.8	4.6	15 31	+12.9	-19.4	15 58	15 45	+12.7	-19.1	16 12	16 25	-3.2	16 54
4.7	-3.9	4.9	15 59	+13.0	-19.3	16 26	16 13	+12.8	-19.0	16 42	16 55	-3.1	17 26
5.0	-4.0	5.1	16 27	+13.1	-19.2	16 57	16 43	+12.9	-18.9	17 13	17 27	-3.0	18 00
5.2	-4.1	5.4	16 58	+13.2	-19.1	17 29	17 14	+13.0	-18.8	17 46	18 01	-2.9	18 36
5.5	-4.2	5.7	17 30	+13.3	-19.0	18 04	17 47	+13.1	-18.7	18 22	18 37	-2.8	19 15
5.8	-4.3	6.0	18 05	+13.4	-18.9	18 40	18 23	+13.2	-18.6	18 59	19 16	-2.7	19 55
6.1	-4.4	6.2	18 41	+13.5	-18.8	19 19	19 00	+13.3	-18.5	19 40	19 56	-2.6	20 39
6.3	-4.5	6.5	19 20	+13.6	-18.7	20 01	19 41	+13.4	-18.4	20 23	20 40	-2.5	21 26
6.6	-4.6	6.8	20 02	+13.7	-18.6	20 45	20 24	+13.5	-18.3	21 09	21 27	-2.4	22 16
6.9	-4.7	7.1	20 46	+13.8	-18.5	21 33	21 10	+13.6	-18.2	21 58	22 17	-2.3	23 10
7.2	-4.8	7.4	21 34	+13.9	-18.4	22 24	21 59	+13.7	-18.1	22 51	23 11	-2.2	24 08
7.5	-4.9	7.8	22 25	+14.0	-18.3	23 19	22 52	+13.8	-18.0	23 48	24 09	-2.1	25 11
7.9	-5.0	8.1	23 20	+14.1	-18.2	24 19	23 49	+13.9	-17.9	24 50	25 12	-2.0	26 19
8.2	-5.1	8.4	24 20	+14.2	-18.1	25 23	24 51	+14.0	-17.8	25 57	26 20	-1.9	27 33
8.5	-5.2	8.7	25 24	+14.3	-18.0	26 33	25 58	+14.1	-17.7	27 10	27 34	-1.8	28 53
8.8	-5.3	9.1	26 34	+14.4	-17.9	27 49	27 11	+14.2	-17.6	28 30	28 54	-1.7	30 21
9.2	-5.4	9.4	27 50	+14.5	-17.8	29 12	28 31	+14.3	-17.5	29 57	30 22	-1.6	31 57
9.5	-5.5	9.8	29 13	+14.6	-17.7	30 43	29 58	+14.4	-17.4	31 32	31 58	-1.5	33 42
9.9	-5.6	10.2	30 44	+14.7	-17.6	32 24	31 33	+14.5	-17.3	33 17	33 43	-1.4	35 37
10.3	-5.7	10.5	32 24	+14.8	-17.5	34 14	33 18	+14.6	-17.2	35 14	35 38	-1.3	37 44
10.6	-5.8	10.9	34 15	+14.9	-17.4	36 16	35 15	+14.7	-17.1	37 23	37 45	-1.2	40 05
11.0	-5.9	11.3	36 17	+15.0	-17.3	38 33	37 24	+14.8	-17.0	39 47	40 06	-1.1	42 41
11.4	-6.0	11.7	38 34	+15.1	-17.2	41 05	39 48	+14.9	-16.9	42 27	42 42	-1.0	45 33
11.8	-6.1	12.1	41 06	+15.2	-17.1	43 55	42 28	+15.0	-16.8	45 28	45 34	-0.9	48 44
12.2	-6.2	12.5	43 56	+15.3	-17.0	47 06	45 29	+15.1	-16.7	48 51	48 45	-0.8	52 15
12.6	-6.3	12.9	47 07	+15.4	-16.9	50 42	48 52	+15.2	-16.6	52 40	52 16	-0.7	56 08
13.0	-6.4	13.3	50 43	+15.5	-16.8	50 45	52 41	+15.3	-16.5	56 58	56 09	-0.6	60 25
13.4	-6.5	13.7	54 46	+15.6	-16.7	59 20	56 59	+15.4	-16.4	61 58	60 26	-0.5	65 05
13.8	-6.6	14.1	59 21	+15.7	-16.6	64 27	61 50	+15.5	-16.3	67 14	65 06	-0.4	70 08
14.2	-6.7	14.6	64 28	+15.8	-16.5	70 09	67 15	+15.6	-16.2	73 13	70 09	-0.3	75 31
14.7	-6.8	15.0	70 10	+15.9	-16.4	76 23	73 14	+15.7	-16.1	79 41	75 32	-0.2	81 11
15.1	-6.9	15.4	76 24	+16.0	-16.3	83 04	79 42	+15.8	-16.0	86 30	81 12	-0.1	87 02
15.5	-7.0	15.9	83 05	+16.1	-16.2	90 00	86 31	+15.9	-15.9	90 00	87 03	-0.0	90 00

Tabla D. Conversión Tiempo Medio Local (TML)-Tiempo Universal (TU).

TML	Longitudes Este (E)												
	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°	165°	180°
h	h	h	h	h	h	h	h	h	h	h	h	h	h
00	00	23	22	21	20	19	18	17	16	15	14	13	12
01	01	00	23	22	21	20	19	18	17	16	15	14	13
02	02	01	00	23	22	21	20	19	18	17	16	15	14
03	03	02	01	00	23	22	21	20	19	18	17	16	15
04	04	03	02	01	00	23	22	21	20	19	18	17	16
05	05	04	03	02	01	00	23	22	21	20	19	18	17
06	06	05	04	03	02	01	00	23	22	21	20	19	18
07	07	06	05	04	03	02	01	00	23	22	21	20	19
08	08	07	06	05	04	03	02	01	00	23	22	21	20
09	09	08	07	06	05	04	03	02	01	00	23	22	21
10	10	09	08	07	06	05	04	03	02	01	00	23	22
11	11	10	09	08	07	06	05	04	03	02	01	00	23
12	12	11	10	09	08	07	06	05	04	03	02	01	00
13	13	12	11	10	09	08	07	06	05	04	03	02	01
14	14	13	12	11	10	09	08	07	06	05	04	03	02
15	15	14	13	12	11	10	09	08	07	06	05	04	03
16	16	15	14	13	12	11	10	09	08	07	06	05	04
17	17	16	15	14	13	12	11	10	09	08	07	06	05
18	18	17	16	15	14	13	12	11	10	09	08	07	06
19	19	18	17	16	15	14	13	12	11	10	09	08	07
20	20	19	18	17	16	15	14	13	12	11	10	09	08
21	21	20	19	18	17	16	15	14	13	12	11	10	09
22	22	21	20	19	18	17	16	15	14	13	12	11	10
23	23	22	21	20	19	18	17	16	15	14	13	12	11

Ejemplo: Un observador se encuentra en una longitud Este de 75° 30' y requiere conocer el Tiempo Universal (TU) correspondiente a su Tiempo Medio Local (TML) de 10^h. Se procede a localizar la intersección de la columna TML, fila de 10^h, con la columna 75° (meridiano central más cercano), encontrándose que el tiempo correspondiente en TU es 5^h.

Las horas que se ubican sobre la diagonal (delimitada por las líneas horizontales debajo de la hora 23) corresponden a la hora del día anterior.

Tabla E. Conversión Tiempo Medio Local (TML)-Tiempo Universal (TU.)

TML	Longitudes Oeste (W)												
	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°	165°	180°
h	h	h	h	h	h	h	h	h	h	h	h	h	h
00	00	01	02	03	04	05	06	07	08	09	10	11	12
01	01	02	03	04	05	06	07	08	09	10	11	12	13
02	02	03	04	05	06	07	08	09	10	11	12	13	14
03	03	04	05	06	07	08	09	10	11	12	13	14	15
04	04	05	06	07	08	09	10	11	12	13	14	15	16
05	05	06	07	08	09	10	11	12	13	14	15	16	17
06	06	07	08	09	10	11	12	13	14	15	16	17	18
07	07	08	09	10	11	12	13	14	15	16	17	18	19
08	08	09	10	11	12	13	14	15	16	17	18	19	20
09	09	10	11	12	13	14	15	16	17	18	19	20	21
10	10	11	12	13	14	15	16	17	18	19	20	21	22
11	11	12	13	14	15	16	17	18	19	20	21	22	23
12	12	13	14	15	16	17	18	19	20	21	22	23	00
13	13	14	15	16	17	18	19	20	21	22	23	00	01
14	14	15	16	17	18	19	20	21	22	23	00	01	02
15	15	16	17	18	19	20	21	22	23	00	01	02	03
16	16	17	18	19	20	21	22	23	00	01	02	03	04
17	17	18	19	20	21	22	23	00	01	02	03	04	05
18	18	19	20	21	22	23	00	01	02	03	04	05	06
19	19	20	21	22	23	00	01	02	03	04	05	06	07
20	20	21	22	23	00	01	02	03	04	05	06	07	08
21	21	22	23	00	01	02	03	04	05	06	07	08	09
22	22	23	00	01	02	03	04	05	06	07	08	09	10
23	23	00	01	02	03	04	05	06	07	08	09	10	11

Ejemplo: Un observador se encuentra en una longitud Oeste de 75° 30' y requiere conocer el Tiempo Universal (TU) correspondiente a su Tiempo Medio Local (TML) de 10^h. Se procede a localizar la intersección de la columna TML, fila de 10^h, con la columna 75° (meridiano central más cercano), encontrándose que el tiempo correspondiente en TU es 15^h.

Las horas que se ubican sobre la diagonal (delimitada por las líneas horizontales debajo de la hora 23) corresponden a la hora del día siguiente.

Tabla F. Diferencia de longitud-tiempo (00'- 29').

	Grados de longitud							
	0°	1°	2°	3°	4°	5°	6°	7°
'	m s	m s	m s	m s	m s	m s	m s	m s
00	00 00	00 04	04 00	12 00	16 00	20 00	24 00	28 00
01	00 04	04 04	08 04	12 04	16 04	20 04	24 04	28 04
02	00 08	04 08	08 08	12 08	16 08	20 08	24 08	28 08
03	00 12	04 12	08 12	12 12	16 12	20 12	24 12	28 12
04	00 16	04 16	08 16	12 16	16 16	20 16	24 16	28 16
05	00 20	04 20	08 20	12 20	16 20	20 20	24 20	28 20
06	00 24	04 24	08 24	12 24	16 24	20 24	24 24	28 24
07	00 28	04 28	08 28	12 28	16 28	20 28	24 28	28 28
08	00 32	04 32	08 32	12 32	16 32	20 32	24 32	28 32
09	00 36	04 36	08 36	12 36	16 36	20 36	24 36	28 36
10	00 40	04 40	08 40	12 40	16 40	20 40	24 40	28 40
11	00 44	04 44	08 44	12 44	16 44	20 44	24 44	28 44
12	00 48	04 48	08 48	12 48	16 48	20 48	24 48	28 48
13	00 52	04 52	08 52	12 52	16 52	20 52	24 52	28 52
14	00 56	04 56	08 56	12 56	16 56	20 56	24 56	28 56
15	01 00	05 00	09 00	13 00	17 00	21 00	25 00	29 00
16	01 04	05 04	09 04	13 04	17 04	21 04	25 04	29 04
17	01 08	05 08	09 08	13 08	17 08	21 08	25 08	29 08
18	01 12	05 12	09 12	13 12	17 12	21 12	25 12	29 12
19	01 16	05 16	09 16	13 16	17 16	21 16	25 16	29 16
20	01 20	05 20	09 20	13 20	17 20	21 20	25 20	29 20
21	01 24	05 24	09 24	13 24	17 24	21 24	25 24	29 24
22	01 28	05 28	09 28	13 28	17 28	21 28	25 28	29 28
23	01 32	05 32	09 32	13 32	17 32	21 32	25 32	29 32
24	01 36	05 36	09 36	13 36	17 36	21 36	25 36	29 36
25	01 40	05 40	09 40	13 40	17 40	21 40	25 40	29 40
26	01 44	05 44	09 44	13 44	17 44	21 44	25 44	29 44
27	01 48	05 48	09 48	13 48	17 48	21 48	25 48	29 48
28	01 52	05 52	09 52	13 52	17 52	21 52	25 52	29 52
29	01 56	05 56	09 56	13 56	17 56	21 56	25 56	29 56

Ejemplo: La hora del orto en una latitud N 13° es de 06^h 20^m. Se requiere conocer la corrección en tiempo para una longitud de 80° 24' W. El meridiano central más cercano es el de 75° 0' W. La diferencia entre ambas longitudes es de 5° 24'. El valor que corresponde a la intersección de la columna 5° con la fila 24' es igual a 21^m 36^s; como se encuentra al oeste del meridiano central, este valor se suma (en caso contrario se resta) a la hora de la latitud de 06^h 20^m, teniendo como resultado un tiempo medio local del orto de 06^h 41^m 36^s.

Tabla F. Diferencia de Longitud-Tiempo (30' - 59').

	Grados de longitud							
	0°	1°	2°	3°	4°	5°	6°	7°
'	m s	m s	m s	m s	m s	m s	m s	m s
30	02 00	06 00	10 00	14 00	18 00	22 00	26 00	30 00
31	02 04	06 04	10 04	14 04	18 04	22 04	26 04	30 04
32	02 08	06 08	10 08	14 08	18 08	22 08	26 08	30 08
33	02 12	06 12	10 12	14 12	18 12	22 12	26 12	30 12
34	02 16	06 16	10 16	14 16	18 16	22 16	26 16	30 16
35	02 20	06 20	10 20	14 20	18 20	22 20	26 20	30 20
36	02 24	06 24	10 24	14 24	18 24	22 24	26 24	30 24
37	02 28	06 28	10 28	14 28	18 28	22 28	26 28	30 28
38	02 32	06 32	10 32	14 32	18 32	22 32	26 32	30 32
39	02 36	06 36	10 36	14 36	18 36	22 36	26 36	30 36
40	02 40	06 40	10 40	14 40	18 40	22 40	26 40	30 40
41	02 44	06 44	10 44	14 44	18 44	22 44	26 44	30 44
42	02 48	06 48	10 48	14 48	18 48	22 48	26 48	30 48
43	02 52	06 52	10 52	14 52	18 52	22 52	26 52	30 52
44	02 56	06 56	10 56	14 56	18 56	22 56	26 56	30 56
45	03 00	07 00	11 00	15 00	19 00	23 00	27 00	31 00
46	03 04	07 04	11 04	15 04	19 04	23 04	27 04	31 04
47	03 08	07 08	11 08	15 08	19 08	23 08	27 08	31 08
48	03 12	07 12	11 12	15 12	19 12	23 12	27 12	31 12
49	03 16	07 16	11 16	15 16	19 16	23 16	27 16	31 16
50	03 20	07 20	11 20	15 20	19 20	23 20	27 20	31 20
51	03 24	07 24	11 24	15 24	19 24	23 24	27 24	31 24
52	03 28	07 28	11 28	15 28	19 28	23 28	27 28	31 28
53	03 32	07 32	11 32	15 32	19 32	23 32	27 32	31 32
54	03 36	07 36	11 36	15 36	19 36	23 36	27 36	31 36
55	03 40	07 40	11 40	15 40	19 40	23 40	27 40	31 40
56	03 44	07 44	11 44	15 44	19 44	23 44	27 44	31 44
57	03 48	07 48	11 48	15 48	19 48	23 48	27 48	31 48
58	03 52	07 52	11 52	15 52	19 52	23 52	27 52	31 52
59	03 56	07 56	11 56	15 56	19 56	23 56	27 56	31 56

Ejemplo: La hora del ocaso en una latitud de S 5° es de 18^h 41^m. Se requiere conocer la corrección en tiempo para una longitud de 20° 10' E. El meridiano central más cercano es el de 15° 0'W. La diferencia entre ambas longitudes es de 5° 10'. El valor que corresponde a la intersección de la columna 5° con la fila 10' es igual a 20^m 40^s; como se encuentra al este del meridiano central, este valor se resta (en caso contrario se suma) a la hora de la latitud de 18^h 41^m, teniendo como resultado un tiempo medio local del ocaso de 18^h 21^m 40^s.

Tabla G. Jueves 1 de enero – viernes 2 de enero de 2015.

Día	TU	Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.						Nombre	SHA	Dec.
	h	° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m		° / ' / "	° / ' / "
1	0	100 19.8	179 12.1	S 23 2.4	N 60	7 36	9 2	15 6	16 32	Achernar	335 26.0	S 57 10.0
	1	115 22.2	194 11.8	S 23 2.2	N 55	7 16	8 25	15 43	16 52	Acruz	173 7.9	S 63 10.6
	2	130 24.7	209 11.5	S 23 2.0	N 50	6 59	7 59	16 9	17 9	Adhara	255 11.3	S 28 59.8
	3	145 27.2	224 11.2	S 23 1.8	N 45	6 46	7 38	16 30	17 22	Aldebaran	290 47.9	N 16 32.2
	4	160 29.6	239 10.9	S 23 1.6	N 40	6 34	7 22	16 46	17 34	Alioth	166 20.0	N 55 52.4
	5	175 32.1	254 10.7	S 23 1.4	N 35	6 24	7 8	17 0	17 44	Alkaid	152 58.3	N 49 14.1
	6	190 34.6	269 10.4	S 23 1.2	N 30	6 15	6 56	17 12	17 53	Alnair	27 42.8	S 46 53.3
	7	205 37.0	284 10.1	S 23 1.0	N 25	6 6	6 45	17 23	18 2	Alnilam	275 45.0	S 1 11.8
	8	220 39.5	299 9.8	S 23 0.8	N 20	5 58	6 35	17 32	18 10	Alphard	217 54.8	S 8 43.6
	9	235 42.0	314 9.5	S 23 0.6	N 15	5 49	6 26	17 42	18 18	Alpheratz	357 42.4	N 29 10.6
	10	250 44.4	329 9.2	S 23 0.4	N 14	5 48	6 24	17 44	18 20	Altair	62 7.7	N 8 54.6
	11	265 46.9	344 8.9	S 23 0.2	N 13	5 46	6 23	17 45	18 22	Antares	112 25.2	S 26 27.6
	12	280 49.3	359 8.6	S 23 0.0	N 12	5 45	6 21	17 47	18 23	Arcturus	145 54.6	N 19 6.7
	13	295 51.8	14 8.3	S 22 59.8	N 11	5 43	6 19	17 49	18 25	Atria	107 26.6	S 69 2.9
	14	310 54.3	29 8.0	S 22 59.6	N 10	5 41	6 17	17 51	18 27	Avior	234 16.9	S 59 33.5
	15	325 56.7	44 7.7	S 22 59.4	N 9	5 40	6 16	17 52	18 28	Bellatrix	278 30.5	N 6 21.6
	16	340 59.2	59 7.4	S 22 59.2	N 8	5 38	6 14	17 54	18 30	Betelgeuse	270 59.8	N 7 24.3
	17	356 1.7	74 7.1	S 22 59.0	N 7	5 36	6 12	17 56	18 31	Canopus	263 55.1	S 52 42.5
	18	11 4.1	89 6.8	S 22 58.8	N 6	5 35	6 10	17 57	18 33	Capella	280 32.4	N 46 0.7
	19	26 6.6	104 6.5	S 22 58.6	N 5	5 33	6 9	17 59	18 35	Deneb	49 31.1	N 45 20.3
	20	41 9.1	119 6.2	S 22 58.4	N 4	5 31	6 7	18 1	18 36	Denebola	182 32.4	N 14 29.2
	21	56 11.5	134 5.9	S 22 58.1	N 3	5 30	6 5	18 3	18 38	Dubhe	193 50.2	N 61 39.8
	22	71 14.0	149 5.7	S 22 57.9	N 2	5 28	6 4	18 4	18 40	Elnath	278 10.9	N 28 37.0
23	86 16.4	164 5.4	S 22 57.7	N 1	5 26	6 2	18 6	18 41	Eltanin	90 46.2	N 51 29.4	
				0	5 25	6 0	18 8	18 43				
	0	101 18.9	179 5.1	S 22 57.5	S 1	5 23	5 59	18 9	18 45	Enif	33 46.3	N 9 56.8
	1	116 21.4	194 4.8	S 22 57.3	S 2	5 21	5 57	18 11	18 47	Formalhaut	15 23.1	S 29 32.6
	2	131 23.8	209 4.5	S 22 57.1	S 3	5 19	5 55	18 13	18 48	Gacrux	171 59.6	S 57 11.5
	3	146 26.3	224 4.2	S 22 56.9	S 4	5 18	5 53	18 14	18 50	Hadar	148 46.5	S 60 26.4
	4	161 28.8	239 3.9	S 22 56.6	S 5	5 16	5 52	18 16	18 52	Hamal	327 59.4	N 23 32.0
	5	176 31.2	254 3.6	S 22 56.4	S 6	5 14	5 50	18 18	18 54	Kaus Aust	83 42.8	S 34 22.4
	6	191 33.7	269 3.3	S 22 56.2	S 7	5 12	5 48	18 19	18 56	Kochab	137 20.9	N 74 5.4
	7	206 36.2	284 3.0	S 22 56.0	S 8	5 10	5 47	18 21	18 57	Markab	13 37.4	N 15 17.3
	8	221 38.6	299 2.7	S 22 55.8	S 9	5 8	5 45	18 23	19 0	Menkent	148 6.2	S 36 26.2
	9	236 41.1	314 2.4	S 22 55.5	S 10	5 7	5 43	18 25	19 1	Miaplacidu	221 38.4	S 69 46.7
	10	251 43.6	329 2.1	S 22 55.3	S 11	5 5	5 41	18 26	19 3	Mirfak	308 38.4	N 49 54.9
	11	266 46.0	344 1.9	S 22 55.1	S 12	5 3	5 40	18 28	19 5	Nunki	75 57.4	S 26 16.5
2	12	281 48.5	359 1.6	S 22 54.9	S 13	5 1	5 38	18 30	19 7	Peacock	53 18.2	S 56 41.1
	13	296 50.9	14 1.3	S 22 54.7	S 14	4 59	5 36	18 32	19 9	Pollux	243 25.9	N 27 59.1
	14	311 53.4	29 1.0	S 22 54.4	S 15	4 57	5 34	18 34	19 11	Procyon	244 58.1	N 5 11.2
	15	326 55.9	44 0.7	S 22 54.2	S 20	4 46	5 25	18 43	19 22	Rasalhague	96 5.8	N 12 33.2
	16	341 58.3	59 0.4	S 22 54.0	S 25	4 33	5 14	18 53	19 34	Regulus	207 42.1	N 11 53.4
	17	357 0.8	74 0.1	S 22 53.7	S 30	4 19	5 3	19 5	19 48	Rigel	281 10.7	S 8 11.3
	18	12 3.3	88 59.8	S 22 53.5	S 35	4 3	4 50	19 17	20 5	Rigel Kent	139 48.6	S 60 53.7
	19	27 5.7	103 59.5	S 22 53.3	S 40	3 43	4 36	19 32	20 25	Schedar	349 39.2	N 56 37.4
	20	42 8.2	118 59.2	S 22 53.1	S 45	3 17	4 18	19 49	20 50	Shaula	96 20.9	S 37 6.6
	21	57 10.7	133 59.0	S 22 52.8	S 50	2 43	3 56	20 11	21 24	Sirius	258 32.3	S 16 44.1
	22	72 13.1	148 58.7	S 22 52.6	S 55	1 47	3 27	20 40	22 20	Spica	158 30.2	S 11 14.3
	23	87 15.6	163 58.4	S 22 52.4	S 60	—	2 44	21 23	—	Vega	80 38.7	N 38 48.0
Día	Sol				Luna							
	Ecuación del tiempo (00 ^h)		Corr. <i>d</i>	Paso por el meridiano	Edad día	Porcentaje de iluminación	Fase					
	m s	m s		h m								
1	3 11	3 25	0.2	12 3	10.5	82						
2	3 39	3 53	0.2	12 4	11.5	89						

Tabla G. Sábado 3 de enero – domingo 4 de enero de 2015.


Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
		° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m	h m	h m	° / ' / "	° / ' / "	° / ' / "	
3	0	102 18.1	178 58.1	S 22 52.1	N 60	7 36	9 1	15 9	16 34	Achernar	335 26.0	S 57 10.0			
	1	117 20.5	193 57.8	S 22 51.9	N 55	7 15	8 24	15 46	16 55	Acrux	173 7.9	S 63 10.6			
	2	132 23.0	208 57.5	S 22 51.7	N 50	6 59	7 58	16 12	17 11	Adhara	255 11.3	S 28 59.8			
	3	147 25.4	223 57.2	S 22 51.4	N 45	6 46	7 38	16 31	17 24	Aldebaran	290 47.9	N 16 32.2			
	4	162 27.9	238 56.9	S 22 51.2	N 40	6 35	7 22	16 48	17 35	Alioth	166 19.9	N 55 52.4			
	5	177 30.4	253 56.6	S 22 51.0	N 35	6 25	7 9	17 1	17 45	Alkaid	152 58.2	N 49 14.1			
	6	192 32.8	268 56.4	S 22 50.7	N 30	6 15	6 57	17 13	17 54	Alnair	27 42.8	S 46 53.3			
	7	207 35.3	283 56.1	S 22 50.5	N 25	6 7	6 46	17 24	18 3	Alnilam	275 45.0	S 1 11.8			
	8	222 37.8	298 55.8	S 22 50.2	N 20	5 58	6 36	17 34	18 11	Alphard	217 54.8	S 8 43.6			
	9	237 40.2	313 55.5	S 22 50.0	N 15	5 50	6 27	17 43	18 20	Alpheratz	357 42.4	N 29 10.6			
	10	252 42.7	328 55.2	S 22 49.8	N 14	5 49	6 25	17 45	18 21	Altair	62 7.7	N 8 54.6			
	11	267 45.2	343 54.9	S 22 49.5	N 13	5 47	6 23	17 46	18 23	Antares	112 25.2	S 26 27.6			
	12	282 47.6	358 54.6	S 22 49.3	N 12	5 45	6 22	17 48	18 24	Arcturus	145 54.6	N 19 6.7			
	13	297 50.1	13 54.3	S 22 49.0	N 11	5 44	6 20	17 50	18 26	Atria	107 26.6	S 69 2.9			
	14	312 52.5	28 54.1	S 22 48.8	N 10	5 42	6 18	17 52	18 28	Avior	234 16.9	S 59 33.5			
	15	327 55.0	43 53.8	S 22 48.5	N 9	5 41	6 16	17 53	18 29	Bellatrix	278 30.5	N 6 21.6			
	16	342 57.5	58 53.5	S 22 48.3	N 8	5 39	6 15	17 55	18 31	Betelgeuse	270 59.8	N 7 24.3			
	17	357 59.9	73 53.2	S 22 48.0	N 7	5 37	6 13	17 57	18 32	Canopus	263 55.1	S 52 42.5			
	18	13 2.4	88 52.9	S 22 47.8	N 6	5 36	6 11	17 58	18 34	Capella	280 32.4	N 46 0.7			
	19	28 4.9	103 52.6	S 22 47.5	N 5	5 34	6 10	18 0	18 36	Deneb	49 31.1	N 45 20.3			
	20	43 7.3	118 52.3	S 22 47.3	N 4	5 32	6 8	18 2	18 37	Denebola	182 32.4	N 14 29.2			
	21	58 9.8	133 52.1	S 22 47.1	N 3	5 31	6 6	18 3	18 39	Dubhe	193 50.2	N 61 39.8			
	22	73 12.3	148 51.8	S 22 46.8	N 2	5 29	6 5	18 5	18 41	Elnath	278 10.9	N 28 37.0			
23	88 14.7	163 51.5	S 22 46.5	N 1	5 27	6 3	18 7	18 42	Eltanin	90 46.2	N 51 29.3				
				0	5 26	6 1	18 8	18 44							
	0	103 17.2	178 51.2	S 22 46.3	S 1	5 24	6 0	18 10	18 46	Enif	33 46.3	N 9 56.8			
	1	118 19.7	193 50.9	S 22 46.0	S 2	5 22	5 58	18 12	18 47	Formalhaut	15 23.1	S 29 32.6			
	2	133 22.1	208 50.6	S 22 45.8	S 3	5 20	5 56	18 14	18 49	Gacrux	171 59.5	S 57 11.5			
	3	148 24.6	223 50.4	S 22 45.5	S 4	5 19	5 54	18 15	18 51	Hadar	148 46.4	S 60 26.4			
	4	163 27.0	238 50.1	S 22 45.3	S 5	5 17	5 53	18 17	18 53	Hamal	327 59.4	N 23 32.0			
	5	178 29.5	253 49.8	S 22 45.0	S 6	5 15	5 51	18 19	18 55	Kaus Aust	83 42.8	S 34 22.4			
	6	193 32.0	268 49.5	S 22 44.8	S 7	5 13	5 49	18 20	18 56	Kochab	137 20.9	N 74 5.4			
	7	208 34.4	283 49.2	S 22 44.5	S 8	5 11	5 48	18 22	18 58	Markab	13 37.4	N 15 17.3			
	8	223 36.9	298 48.9	S 22 44.3	S 9	5 9	5 46	18 24	19 0	Menkent	148 6.2	S 36 26.2			
	9	238 39.4	313 48.6	S 22 44.0	S 10	5 8	5 44	18 25	19 2	Miaplacidu	221 38.4	S 69 46.7			
	10	253 41.8	328 48.4	S 22 43.7	S 11	5 6	5 42	18 27	19 4	Mirfak	308 38.4	N 49 54.9			
	11	268 44.3	343 48.1	S 22 43.5	S 12	5 4	5 41	18 29	19 6	Nunki	75 57.4	S 26 16.5			
	12	283 46.8	358 47.8	S 22 43.2	S 13	5 2	5 39	18 31	19 8	Peacock	53 18.2	S 56 41.1			
	13	298 49.2	13 47.5	S 22 42.9	S 14	5 0	5 37	18 33	19 10	Pollux	243 25.9	N 27 59.1			
	14	313 51.7	28 47.2	S 22 42.7	S 15	4 58	5 35	18 34	19 12	Procyon	244 58.1	N 5 11.2			
	15	328 54.2	43 47.0	S 22 42.4	S 20	4 47	5 26	18 44	19 23	Rasalhague	96 5.8	N 12 33.2			
	16	343 56.6	58 46.7	S 22 42.2	S 25	4 35	5 16	18 54	19 35	Regulus	207 42.1	N 11 53.4			
	17	358 59.1	73 46.4	S 22 41.9	S 30	4 21	5 4	19 5	19 49	Rigel	281 10.7	S 8 11.3			
	18	14 1.5	88 46.1	S 22 41.6	S 35	4 4	4 52	19 18	20 5	Rigel Kent	139 48.6	S 60 53.7			
	19	29 4.0	103 45.8	S 22 41.4	S 40	3 45	4 37	19 32	20 25	Schedar	349 39.2	N 56 37.4			
	20	44 6.5	118 45.5	S 22 41.1	S 45	3 20	4 20	19 49	20 50	Shaula	96 20.9	S 37 6.6			
	21	59 8.9	133 45.3	S 22 40.8	S 50	2 45	3 58	20 11	21 24	Sirius	258 32.3	S 16 44.2			
	22	74 11.4	148 45.0	S 22 40.6	S 55	1 51	3 30	20 39	22 18	Spica	158 30.1	S 11 14.3			
	23	89 13.9	163 44.7	S 22 40.3	S 60	—	2 48	21 21	—	Vega	80 38.7	N 38 48.0			
Sol													Luna		
Día	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase						
	m s	m s		h m											
3	4 7	4 21	0.2	12 4		12.5	95								
4	4 35	4 48	0.2	12 5		13.5	98								

Tabla G. Lunes 5 de enero – martes 6 de enero de 2015..

Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
	h	° /	° /	° /	°	h m	h m	h m	h m	h m	h m		° /	° /	
5	0	104 16.3	178 44.4	S 22 40.0	N 60	7 35	8 59	15 13	16 37	Achernar	335 26.0	S 57 10.0			
	1	119 18.8	193 44.1	S 22 39.7	N 55	7 15	8 23	15 48	16 57	Acrux	173 7.8	S 63 10.7			
	2	134 21.3	208 43.9	S 22 39.5	N 50	6 59	7 58	16 14	17 13	Adhara	255 11.3	S 28 59.8			
	3	149 23.7	223 43.6	S 22 39.2	N 45	6 46	7 38	16 34	17 26	Aldebaran	290 47.9	N 16 32.2			
	4	164 26.2	238 43.3	S 22 38.9	N 40	6 35	7 22	16 49	17 37	Alioth	166 19.9	N 55 52.4			
	5	179 28.6	253 43.0	S 22 38.6	N 35	6 25	7 9	17 3	17 47	Alkaid	152 58.2	N 49 14.1			
	6	194 31.1	268 42.7	S 22 38.4	N 30	6 16	6 57	17 15	17 56	Alnair	27 42.8	S 46 53.3			
	7	209 33.6	283 42.5	S 22 38.1	N 25	6 7	6 46	17 25	18 4	Alnilam	275 45.0	S 1 11.8			
	8	224 36.0	298 42.2	S 22 37.8	N 20	5 59	6 37	17 35	18 13	Alphard	217 54.8	S 8 43.6			
	9	239 38.5	313 41.9	S 22 37.5	N 15	5 51	6 27	17 44	18 21	Alpheratz	357 42.4	N 29 10.6			
	10	254 41.0	328 41.6	S 22 37.3	N 14	5 49	6 26	17 46	18 22	Altair	62 7.6	N 8 54.6			
	11	269 43.4	343 41.3	S 22 37.0	N 13	5 48	6 24	17 48	18 24	Antares	112 25.2	S 26 27.7			
	12	284 45.9	358 41.1	S 22 36.7	N 12	5 46	6 22	17 49	18 25	Arcturus	145 54.6	N 19 6.7			
	13	299 48.4	13 40.8	S 22 36.4	N 11	5 45	6 21	17 51	18 27	Atria	107 26.5	S 69 2.9			
	14	314 50.8	28 40.5	S 22 36.1	N 10	5 43	6 19	17 53	18 29	Avior	234 16.9	S 59 33.6			
	15	329 53.3	43 40.2	S 22 35.9	N 9	5 41	6 17	17 54	18 30	Bellatrix	278 30.5	N 6 21.6			
	16	344 55.8	58 40.0	S 22 35.6	N 8	5 40	6 15	17 56	18 32	Betelgeuse	270 59.8	N 7 24.3			
	17	359 58.2	73 39.7	S 22 35.3	N 7	5 38	6 14	17 58	18 33	Canopus	263 55.1	S 52 42.5			
	18	15 0.7	88 39.4	S 22 35.0	N 6	5 37	6 12	17 59	18 35	Capella	280 32.4	N 46 0.7			
	19	30 3.1	103 39.1	S 22 34.7	N 5	5 35	6 10	18 1	18 37	Deneb	49 31.1	N 45 20.3			
	20	45 5.6	118 38.8	S 22 34.4	N 4	5 33	6 9	18 3	18 38	Denebola	182 32.4	N 14 29.2			
	21	60 8.1	133 38.6	S 22 34.1	N 3	5 32	6 7	18 4	18 40	Dubhe	193 50.1	N 61 39.8			
	22	75 10.5	148 38.3	S 22 33.9	N 2	5 30	6 5	18 6	18 42	Elnath	278 10.9	N 28 37.1			
23	90 13.0	163 38.0	S 22 33.6	N 1	5 28	6 4	18 8	18 43	Eltanin	90 46.2	N 51 29.3				
				0	5 27	6 2	18 9	18 45							
6	0	105 15.5	178 37.7	S 22 33.3	S 1	5 25	6 0	18 11	18 47	Enif	33 46.3	N 9 56.8			
	1	120 17.9	193 37.5	S 22 33.0	S 2	5 23	5 59	18 13	18 48	Formalhaut	15 23.1	S 29 32.6			
	2	135 20.4	208 37.2	S 22 32.7	S 3	5 21	5 57	18 14	18 50	Gacrux	171 59.5	S 57 11.5			
	3	150 22.9	223 36.9	S 22 32.4	S 4	5 20	5 55	18 16	18 52	Hadar	148 46.4	S 60 26.4			
	4	165 25.3	238 36.6	S 22 32.1	S 5	5 18	5 54	18 18	18 53	Hamal	327 59.4	N 23 32.0			
	5	180 27.8	253 36.4	S 22 31.8	S 6	5 16	5 52	18 19	18 55	Kaus Aust	83 42.8	S 34 22.4			
	6	195 30.3	268 36.1	S 22 31.5	S 7	5 14	5 50	18 21	18 57	Kochab	137 20.8	N 74 5.4			
	7	210 32.7	283 35.8	S 22 31.2	S 8	5 13	5 49	18 23	18 59	Markab	13 37.4	N 15 17.3			
	8	225 35.2	298 35.5	S 22 30.9	S 9	5 10	5 47	18 25	19 1	Menkent	148 6.2	S 36 26.2			
	9	240 37.6	313 35.3	S 22 30.6	S 10	5 9	5 45	18 26	19 3	Miaplacidu	221 38.3	S 69 46.7			
	10	255 40.1	328 35.0	S 22 30.3	S 11	5 7	5 44	18 28	19 4	Mirfak	308 38.4	N 49 54.9			
	11	270 42.6	343 34.7	S 22 30.0	S 12	5 5	5 42	18 30	19 6	Nunki	75 57.4	S 26 16.5			
	12	285 45.0	358 34.4	S 22 29.7	S 13	5 3	5 40	18 31	19 8	Peacock	53 18.2	S 56 41.1			
	13	300 47.5	13 34.2	S 22 29.4	S 14	5 1	5 38	18 33	19 10	Pollux	243 25.9	N 27 59.1			
	14	315 50.0	28 33.9	S 22 29.1	S 15	4 59	5 36	18 35	19 12	Procyon	244 58.1	N 5 11.2			
	15	330 52.4	43 33.6	S 22 28.8	S 20	4 48	5 27	18 44	19 23	Rasalhague	96 5.8	N 12 33.2			
	16	345 54.9	58 33.3	S 22 28.5	S 25	4 36	5 17	18 54	19 35	Regulus	207 42.1	N 11 53.4			
	17	0 57.4	73 33.1	S 22 28.2	S 30	4 22	5 6	19 5	19 49	Rigel	281 10.7	S 8 11.3			
	18	15 59.8	88 32.8	S 22 27.9	S 35	4 6	4 54	19 18	20 5	Rigel Kent	139 48.6	S 60 53.7			
	19	31 2.3	103 32.5	S 22 27.6	S 40	3 47	4 39	19 32	20 24	Schedar	349 39.2	N 56 37.4			
	20	46 4.8	118 32.3	S 22 27.3	S 45	3 22	4 22	19 49	20 49	Shaula	96 20.8	S 37 6.6			
	21	61 7.2	133 32.0	S 22 27.0	S 50	2 48	4 1	20 10	21 22	Sirius	258 32.3	S 16 44.2			
	22	76 9.7	148 31.7	S 22 26.7	S 55	1 55	3 32	20 38	22 15	Spica	158 30.1	S 11 14.3			
23	91 12.1	163 31.4	S 22 26.4	S 60	—	2 51	21 19	—	Vega	80 38.7	N 38 47.9				
Día		Sol			Luna										
		Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase					
		m s	m s		h m										
5		5 2	5 15	0.3	12 5		14.5	99							
6		5 29	5 42	0.3	12 6		15.5	99							

Tabla G. Miércoles 7 de enero – jueves 8 de enero de 2015.


Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
7	h	° /	° /	° /	°	h m	h m	h m	h m	h m	h m	h m	° /	° /	° /
	0	106 14.6	178 31.2	S 22 26.1	N 60	7 34	8 57	15 16	16 40	Achernar	335 26.0	S 57 10.0			
	1	121 17.1	193 30.9	S 22 25.8	N 55	7 14	8 22	15 51	17 0	Acrux	173 7.8	S 63 10.7			
	2	136 19.5	208 30.6	S 22 25.5	N 50	6 59	7 57	16 16	17 15	Alhara	255 11.3	S 28 59.8			
	3	151 22.0	223 30.4	S 22 25.2	N 45	6 46	7 38	16 36	17 28	Aldebaran	290 47.9	N 16 32.2			
	4	166 24.5	238 30.1	S 22 24.9	N 40	6 35	7 22	16 51	17 39	Alioth	166 19.9	N 55 52.4			
	5	181 26.9	253 29.8	S 22 24.5	N 35	6 25	7 9	17 5	17 48	Alkaid	152 58.2	N 49 14.1			
	6	196 29.4	268 29.5	S 22 24.2	N 30	6 16	6 57	17 16	17 57	Alnair	27 42.8	S 46 53.3			
	7	211 31.9	283 29.3	S 22 23.9	N 25	6 8	6 47	17 27	18 6	Alnilam	275 45.0	S 1 11.8			
	8	226 34.3	298 29.0	S 22 23.6	N 20	5 59	6 37	17 36	18 14	Alphard	217 54.7	S 8 43.6			
	9	241 36.8	313 28.7	S 22 23.3	N 15	5 52	6 28	17 45	18 22	Alpheratz	357 42.5	N 29 10.6			
	10	256 39.2	328 28.5	S 22 23.0	N 14	5 50	6 26	17 47	18 23	Altair	62 7.6	N 8 54.6			
	11	271 41.7	343 28.2	S 22 22.7	N 13	5 48	6 25	17 49	18 25	Antares	112 25.2	S 26 27.7			
	12	286 44.2	358 27.9	S 22 22.3	N 12	5 47	6 23	17 50	18 26	Arcturus	145 54.6	N 19 6.7			
	13	301 46.6	13 27.7	S 22 22.0	N 11	5 45	6 21	17 52	18 28	Atria	107 26.5	S 69 2.9			
	14	316 49.1	28 27.4	S 22 21.7	N 10	5 44	6 19	17 54	18 30	Avior	234 16.9	S 59 33.6			
	15	331 51.6	43 27.1	S 22 21.4	N 9	5 42	6 18	17 55	18 31	Bellatrix	278 30.5	N 6 21.6			
	16	346 54.0	58 26.9	S 22 21.1	N 8	5 40	6 16	17 57	18 33	Betelgeuse	270 59.8	N 7 24.3			
	17	1 56.5	73 26.6	S 22 20.7	N 7	5 39	6 14	17 59	18 34	Canopus	263 55.1	S 52 42.5			
	18	16 59.0	88 26.3	S 22 20.4	N 6	5 37	6 13	18 0	18 36	Capella	280 32.4	N 46 0.7			
	19	32 1.4	103 26.1	S 22 20.1	N 5	5 36	6 11	18 2	18 37	Deneb	49 31.1	N 45 20.3			
	20	47 3.9	118 25.8	S 22 19.8	N 4	5 34	6 10	18 4	18 39	Denebola	182 32.3	N 14 29.1			
	21	62 6.4	133 25.5	S 22 19.5	N 3	5 32	6 8	18 5	18 41	Dubhe	193 50.1	N 61 39.8			
22	77 8.8	148 25.3	S 22 19.1	N 2	5 31	6 6	18 7	18 42	Elnath	278 10.9	N 28 37.1				
23	92 11.3	163 25.0	S 22 18.8	N 1	5 29	6 5	18 9	18 44	Eltanin	90 46.2	N 51 29.3				
8	0	107 13.7	178 24.7	S 22 18.5	S 1	5 26	6 1	18 12	18 47	Enif	33 46.3	N 9 56.8			
	1	122 16.2	193 24.5	S 22 18.1	S 2	5 24	6 0	18 13	18 49	Formalhaut	15 23.1	S 29 32.6			
	2	137 18.7	208 24.2	S 22 17.8	S 3	5 22	5 58	18 15	18 51	Gacrux	171 59.5	S 57 11.5			
	3	152 21.1	223 23.9	S 22 17.5	S 4	5 21	5 56	18 17	18 52	Hadar	148 46.4	S 60 26.4			
	4	167 23.6	238 23.7	S 22 17.2	S 5	5 19	5 55	18 18	18 54	Hamal	327 59.5	N 23 32.0			
	5	182 26.1	253 23.4	S 22 16.8	S 6	5 17	5 53	18 20	18 56	Kaus Aust	83 42.8	S 34 22.4			
	6	197 28.5	268 23.1	S 22 16.5	S 7	5 15	5 51	18 22	18 58	Kochab	137 20.8	N 74 5.4			
	7	212 31.0	283 22.9	S 22 16.2	S 8	5 14	5 50	18 23	18 59	Markab	13 37.4	N 15 17.3			
	8	227 33.5	298 22.6	S 22 15.8	S 9	5 12	5 48	18 25	19 2	Menkent	148 6.2	S 36 26.2			
	9	242 35.9	313 22.3	S 22 15.5	S 10	5 10	5 46	18 27	19 3	Miaplacidu	221 38.3	S 69 46.8			
	10	257 38.4	328 22.1	S 22 15.2	S 11	5 8	5 45	18 29	19 5	Mirfak	308 38.4	N 49 54.9			
	11	272 40.9	343 21.8	S 22 14.8	S 12	5 6	5 43	18 30	19 7	Nunki	75 57.4	S 26 16.5			
	12	287 43.3	358 21.5	S 22 14.5	S 13	5 4	5 41	18 32	19 9	Peacock	53 18.2	S 56 41.1			
	13	302 45.8	13 21.3	S 22 14.2	S 14	5 2	5 39	18 34	19 11	Pollux	243 25.9	N 27 59.1			
	14	317 48.2	28 21.0	S 22 13.8	S 15	5 0	5 38	18 35	19 13	Procyon	244 58.1	N 5 11.2			
	15	332 50.7	43 20.7	S 22 13.5	S 20	4 50	5 28	18 45	19 23	Rasalhague	96 5.8	N 12 33.1			
	16	347 53.2	58 20.5	S 22 13.2	S 25	4 38	5 18	18 55	19 35	Regulus	207 42.1	N 11 53.4			
	17	2 55.6	73 20.2	S 22 12.8	S 30	4 24	5 8	19 5	19 49	Rigel	281 10.7	S 8 11.3			
	18	17 58.1	88 20.0	S 22 12.5	S 35	4 8	4 55	19 18	20 5	Rigel Kent	139 48.6	S 60 53.7			
	19	33 0.6	103 19.7	S 22 12.1	S 40	3 49	4 41	19 32	20 24	Schedar	349 39.2	N 56 37.4			
	20	48 3.0	118 19.4	S 22 11.8	S 45	3 25	4 24	19 49	20 48	Shaula	96 20.8	S 37 6.6			
	21	63 5.5	133 19.2	S 22 11.4	S 50	2 51	4 3	20 9	21 21	Sirius	258 32.3	S 16 44.2			
	22	78 8.0	148 18.9	S 22 11.1	S 55	2 0	3 35	20 37	22 12	Spica	158 30.1	S 11 14.3			
23	93 10.4	163 18.7	S 22 10.8	S 60	—	2 55	21 17	—	Vega	80 38.7	N 38 47.9				
Sol													Luna		
Día	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase						
	m s	m s		h m											
7	5 55	6 8	0.3	12 6		16.4	96								
8	6 21	6 33	0.3	12 7		17.3	92								

Tabla G. Viernes 9 de enero – sábado 10 de enero de 2015.

Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
9	h	° /	° /	° /	°	h m	h m	h m	h m						
	0	108 12.9	178 18.4	S 22 10.4	N 60	7 32	8 55	15 20	16 43	Achernar	335 26.1	S 57 10.0			
	1	123 15.3	193 18.1	S 22 10.1	N 55	7 13	8 21	15 54	17 2	Acrux	173 7.8	S 63 10.7			
	2	138 17.8	208 17.9	S 22 9.7	N 50	6 58	7 56	16 19	17 17	Adhara	255 11.3	S 28 59.8			
	3	153 20.3	223 17.6	S 22 9.4	N 45	6 45	7 37	16 38	17 30	Aldebaran	290 47.9	N 16 32.2			
	4	168 22.7	238 17.3	S 22 9.0	N 40	6 35	7 22	16 53	17 41	Alioth	166 19.9	N 55 52.4			
	5	183 25.2	253 17.1	S 22 8.7	N 35	6 25	7 9	17 6	17 50	Alkaid	152 58.2	N 49 14.1			
	6	198 27.7	268 16.8	S 22 8.3	N 30	6 16	6 57	17 18	17 59	Alnair	27 42.9	S 46 53.3			
	7	213 30.1	283 16.6	S 22 8.0	N 25	6 8	6 47	17 28	18 7	Alnilam	275 45.0	S 1 11.8			
	8	228 32.6	298 16.3	S 22 7.6	N 20	6 0	6 37	17 38	18 15	Alphard	217 54.7	S 8 43.6			
	9	243 35.1	313 16.1	S 22 7.3	N 15	5 52	6 29	17 46	18 23	Alpheratz	357 42.5	N 29 10.6			
	10	258 37.5	328 15.8	S 22 6.9	N 14	5 51	6 27	17 48	18 24	Altair	62 7.6	N 8 54.6			
	11	273 40.0	343 15.5	S 22 6.6	N 13	5 49	6 25	17 50	18 26	Antares	112 25.2	S 26 27.7			
	12	288 42.5	358 15.3	S 22 6.2	N 12	5 47	6 23	17 51	18 27	Arcturus	145 54.6	N 19 6.7			
	13	303 44.9	13 15.0	S 22 5.9	N 11	5 46	6 22	17 53	18 29	Atria	107 26.5	S 69 2.9			
	14	318 47.4	28 14.8	S 22 5.5	N 10	5 44	6 20	17 55	18 31	Avior	234 16.8	S 59 33.6			
	15	333 49.8	43 14.5	S 22 5.2	N 9	5 43	6 18	17 56	18 32	Bellatrix	278 30.5	N 6 21.6			
	16	348 52.3	58 14.2	S 22 4.8	N 8	5 41	6 17	17 58	18 34	Betelgeuse	270 59.8	N 7 24.3			
	17	3 54.8	73 14.0	S 22 4.4	N 7	5 40	6 15	18 0	18 35	Canopus	263 55.1	S 52 42.5			
	18	18 57.2	88 13.7	S 22 4.1	N 6	5 38	6 14	18 1	18 37	Capella	280 32.4	N 46 0.7			
	19	33 59.7	103 13.5	S 22 3.7	N 5	5 37	6 12	18 3	18 38	Deneb	49 31.1	N 45 20.3			
	20	49 2.2	118 13.2	S 22 3.4	N 4	5 35	6 10	18 5	18 40	Denebola	182 32.3	N 14 29.1			
	21	64 4.6	133 13.0	S 22 3.0	N 3	5 33	6 9	18 6	18 42	Dubhe	193 50.1	N 61 39.8			
22	79 7.1	148 12.7	S 22 2.6	N 2	5 32	6 7	18 8	18 43	Elnath	278 10.9	N 28 37.1				
23	94 9.6	163 12.4	S 22 2.3	N 1	5 30	6 5	18 9	18 45	Eltanin	90 46.1	N 51 29.3				
				0	5 28	6 4	18 11	18 46							
10	0	109 12.0	178 12.2	S 22 1.9	S 1	5 27	6 2	18 13	18 48	Enif	33 46.3	N 9 56.8			
	1	124 14.5	193 11.9	S 22 1.6	S 2	5 25	6 1	18 14	18 50	Formalhaut	15 23.1	S 29 32.6			
	2	139 17.0	208 11.7	S 22 1.2	S 3	5 23	5 59	18 16	18 51	Gacrux	171 59.5	S 57 11.5			
	3	154 19.4	223 11.4	S 22 0.8	S 4	5 22	5 57	18 17	18 53	Hadar	148 46.3	S 60 26.4			
	4	169 21.9	238 11.2	S 22 0.5	S 5	5 20	5 56	18 19	18 55	Hamal	327 59.5	N 23 32.0			
	5	184 24.3	253 10.9	S 22 0.1	S 6	5 18	5 54	18 21	18 56	Kaus Aust	83 42.8	S 34 22.4			
	6	199 26.8	268 10.7	S 21 59.7	S 7	5 17	5 52	18 22	18 58	Kochab	137 20.7	N 74 5.4			
	7	214 29.3	283 10.4	S 21 59.4	S 8	5 15	5 51	18 24	19 0	Markab	13 37.4	N 15 17.3			
	8	229 31.7	298 10.2	S 21 59.0	S 9	5 13	5 49	18 26	19 2	Menkent	148 6.2	S 36 26.3			
	9	244 34.2	313 9.9	S 21 58.6	S 10	5 11	5 47	18 27	19 4	Miaplacidu	221 38.3	S 69 46.8			
	10	259 36.7	328 9.6	S 21 58.3	S 11	5 9	5 46	18 29	19 5	Mirfak	308 38.4	N 49 54.9			
	11	274 39.1	343 9.4	S 21 57.9	S 12	5 7	5 44	18 31	19 7	Nunki	75 57.4	S 26 16.5			
	12	289 41.6	358 9.1	S 21 57.5	S 13	5 5	5 42	18 32	19 9	Peacock	53 18.2	S 56 41.1			
	13	304 44.1	13 8.9	S 21 57.1	S 14	5 4	5 41	18 34	19 11	Pollux	243 25.9	N 27 59.1			
	14	319 46.5	28 8.6	S 21 56.8	S 15	5 2	5 39	18 36	19 13	Procyon	244 58.1	N 5 11.2			
	15	334 49.0	43 8.4	S 21 56.4	S 20	4 51	5 30	18 45	19 24	Rasalhague	96 5.8	N 12 33.1			
	16	349 51.4	58 8.1	S 21 56.0	S 25	4 39	5 20	18 55	19 35	Regulus	207 42.1	N 11 53.4			
	17	4 53.9	73 7.9	S 21 55.6	S 30	4 26	5 9	19 5	19 49	Rigel	281 10.7	S 8 11.3			
	18	19 56.4	88 7.6	S 21 55.3	S 35	4 10	4 57	19 17	20 4	Rigel Kent	139 48.5	S 60 53.7			
	19	34 58.8	103 7.4	S 21 54.9	S 40	3 51	4 43	19 31	20 23	Schedar	349 39.2	N 56 37.4			
	20	50 1.3	118 7.1	S 21 54.5	S 45	3 27	4 26	19 48	20 47	Shaula	96 20.8	S 37 6.6			
	21	65 3.8	133 6.9	S 21 54.1	S 50	2 55	4 6	20 8	21 19	Sirius	258 32.3	S 16 44.2			
	22	80 6.2	148 6.6	S 21 53.8	S 55	2 5	3 39	20 35	22 8	Spica	158 30.1	S 11 14.3			
23	95 8.7	163 6.4	S 21 53.4	S 60	—	2 59	21 14	—	Vega	80 38.7	N 38 47.9				
		Sol			Luna										
Día		Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase					
		m s	m s		h m										
9		6 46	6 59	0.3	12 7		18.2	87							
10		7 11	7 23	0.3	12 7		19.0	80							

Tabla G. Domingo 11 de enero – lunes 12 de enero de 2015.


Día	TU	Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		Aries	Sol							Nombre	SHA	Dec.
		GHA	GHA	Dec.		h m	h m	h m	h m		° / ' / "	° / ' / "
11	h				°							
	0	110 11.2	178 6.1	S 21 53.0	N 60	7 31	8 53	15 24	16 46	Achernar	335 26.1	S 57 10.0
	1	125 13.6	193 5.9	S 21 52.6	N 55	7 12	8 19	15 58	17 5	Acruz	173 7.7	S 63 10.7
	2	140 16.1	208 5.6	S 21 52.2	N 50	6 57	7 55	16 22	17 20	Adhara	255 11.3	S 28 59.8
	3	155 18.6	223 5.4	S 21 51.8	N 45	6 45	7 36	16 40	17 32	Aldebaran	290 47.9	N 16 32.2
	4	170 21.0	238 5.1	S 21 51.5	N 40	6 34	7 21	16 55	17 42	Alioth	166 19.8	N 55 52.4
	5	185 23.5	253 4.9	S 21 51.1	N 35	6 25	7 8	17 8	17 52	Alkaid	152 58.1	N 49 14.1
	6	200 25.9	268 4.6	S 21 50.7	N 30	6 16	6 57	17 20	18 0	Alnair	27 42.9	S 46 53.3
	7	215 28.4	283 4.4	S 21 50.3	N 25	6 8	6 47	17 30	18 9	Alnilam	275 45.0	S 1 11.8
	8	230 30.9	298 4.1	S 21 49.9	N 20	6 0	6 38	17 39	18 16	Alphard	217 54.7	S 8 43.6
	9	245 33.3	313 3.9	S 21 49.5	N 15	5 53	6 29	17 48	18 24	Alpheratz	357 42.5	N 29 10.6
	10	260 35.8	328 3.6	S 21 49.1	N 14	5 51	6 27	17 49	18 25	Altair	62 7.6	N 8 54.6
	11	275 38.3	343 3.4	S 21 48.8	N 13	5 50	6 26	17 51	18 27	Antares	112 25.2	S 26 27.7
	12	290 40.7	358 3.1	S 21 48.4	N 12	5 48	6 24	17 53	18 28	Arcturus	145 54.6	N 19 6.7
	13	305 43.2	13 2.9	S 21 48.0	N 11	5 46	6 22	17 54	18 30	Atria	107 26.4	S 69 2.9
	14	320 45.7	28 2.6	S 21 47.6	N 10	5 45	6 21	17 56	18 32	Avior	234 16.8	S 59 33.6
	15	335 48.1	43 2.4	S 21 47.2	N 9	5 43	6 19	17 57	18 33	Bellatrix	278 30.5	N 6 21.6
	16	350 50.6	58 2.2	S 21 46.8	N 8	5 42	6 17	17 59	18 35	Betelgeuse	270 59.8	N 7 24.3
	17	5 53.1	73 1.9	S 21 46.4	N 7	5 40	6 16	18 1	18 36	Canopus	263 55.1	S 52 42.5
	18	20 55.5	88 1.7	S 21 46.0	N 6	5 39	6 14	18 2	18 38	Capella	280 32.4	N 46 0.8
	19	35 58.0	103 1.4	S 21 45.6	N 5	5 37	6 13	18 4	18 39	Deneb	49 31.1	N 45 20.3
	20	51 0.4	118 1.2	S 21 45.2	N 4	5 36	6 11	18 5	18 41	Denebola	182 32.3	N 14 29.1
	21	66 2.9	133 0.9	S 21 44.8	N 3	5 34	6 9	18 7	18 42	Dubhe	193 50.1	N 61 39.8
22	81 5.4	148 0.7	S 21 44.4	N 2	5 33	6 8	18 9	18 44	Elnath	278 10.9	N 28 37.1	
23	96 7.8	163 0.4	S 21 44.0	N 1	5 31	6 6	18 10	18 45	Eltanin	90 46.1	N 51 29.3	
				0	5 29	6 5	18 12	18 47				
12	0	111 10.3	178 0.2	S 21 43.6	S 1	5 28	6 3	18 13	18 49	Enif	33 46.3	N 9 56.8
	1	126 12.8	193 0.0	S 21 43.2	S 2	5 26	6 1	18 15	18 50	Formalhaut	15 23.1	S 29 32.6
	2	141 15.2	207 59.7	S 21 42.8	S 3	5 24	6 0	18 17	18 52	Gacrux	171 59.4	S 57 11.5
	3	156 17.7	222 59.5	S 21 42.4	S 4	5 23	5 58	18 18	18 54	Hadar	148 46.3	S 60 26.4
	4	171 20.2	237 59.2	S 21 42.0	S 5	5 21	5 57	18 20	18 55	Hamal	327 59.5	N 23 32.0
	5	186 22.6	252 59.0	S 21 41.6	S 6	5 19	5 55	18 21	18 57	Kaus Aust	83 42.8	S 34 22.4
	6	201 25.1	267 58.7	S 21 41.2	S 7	5 18	5 53	18 23	18 59	Kochab	137 20.7	N 74 5.4
	7	216 27.5	282 58.5	S 21 40.8	S 8	5 16	5 52	18 25	19 0	Markab	13 37.4	N 15 17.3
	8	231 30.0	297 58.3	S 21 40.4	S 9	5 14	5 50	18 26	19 3	Menkent	148 6.2	S 36 26.3
	9	246 32.5	312 58.0	S 21 40.0	S 10	5 12	5 48	18 28	19 4	Miaplacidu	221 38.3	S 69 46.8
	10	261 34.9	327 57.8	S 21 39.6	S 11	5 10	5 47	18 30	19 6	Mirfak	308 38.5	N 49 54.9
	11	276 37.4	342 57.5	S 21 39.2	S 12	5 9	5 45	18 31	19 8	Nunki	75 57.4	S 26 16.5
	12	291 39.9	357 57.3	S 21 38.8	S 13	5 7	5 43	18 33	19 10	Peacock	53 18.2	S 56 41.1
	13	306 42.3	12 57.0	S 21 38.4	S 14	5 5	5 42	18 35	19 11	Pollux	243 25.9	N 27 59.1
	14	321 44.8	27 56.8	S 21 38.0	S 15	5 3	5 40	18 36	19 13	Procyon	244 58.1	N 5 11.2
	15	336 47.3	42 56.6	S 21 37.6	S 20	4 52	5 31	18 45	19 24	Rasalhague	96 5.8	N 12 33.1
	16	351 49.7	57 56.3	S 21 37.2	S 25	4 41	5 21	18 55	19 35	Regulus	207 42.1	N 11 53.4
	17	6 52.2	72 56.1	S 21 36.8	S 30	4 28	5 11	19 5	19 48	Rigel	281 10.7	S 8 11.3
	18	21 54.7	87 55.8	S 21 36.3	S 35	4 12	4 59	19 17	20 4	Rigel Kent	139 48.5	S 60 53.7
	19	36 57.1	102 55.6	S 21 35.9	S 40	3 54	4 45	19 31	20 22	Schedar	349 39.3	N 56 37.4
	20	51 59.6	117 55.4	S 21 35.5	S 45	3 30	4 29	19 47	20 46	Shaula	96 20.8	S 37 6.6
	21	67 2.0	132 55.1	S 21 35.1	S 50	2 58	4 9	20 7	21 17	Sirius	258 32.3	S 16 44.2
	22	82 4.5	147 54.9	S 21 34.7	S 55	2 10	3 42	20 33	22 5	Spica	158 30.1	S 11 14.3
23	97 7.0	162 54.7	S 21 34.3	S 60	—	3 4	21 11	—	Vega	80 38.7	N 38 47.9	
Sol												
Día	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase			
	m s	m s		h m								
11	7 35	7 47	0.4	12 8		19.8	72					
12	7 59	8 11	0.4	12 8		20.7	63					

Tabla G. Martes 13 de enero – miércoles 14 de enero de 2015.


Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
	h	° /	° /	° /	°	h m	h m	h m	h m	h m	h m		° /	° /	
13	0	112 9.4	177 54.4	S 21 33.9	N 60	7 29	8 50	15 29	16 50	Achernar	335 26.1	S 57 10.0			
	1	127 11.9	192 54.2	S 21 33.4	N 55	7 10	8 17	16 1	17 8	Acrux	173 7.7	S 63 10.7			
	2	142 14.4	207 53.9	S 21 33.0	N 50	6 56	7 54	16 25	17 22	Adhara	255 11.3	S 28 59.8			
	3	157 16.8	222 53.7	S 21 32.6	N 45	6 44	7 36	16 43	17 34	Aldebaran	290 47.9	N 16 32.2			
	4	172 19.3	237 53.5	S 21 32.2	N 40	6 34	7 21	16 58	17 44	Alioth	166 19.8	N 55 52.4			
	5	187 21.8	252 53.2	S 21 31.8	N 35	6 25	7 8	17 10	17 54	Alkaid	152 58.1	N 49 14.1			
	6	202 24.2	267 53.0	S 21 31.4	N 30	6 16	6 57	17 21	18 2	Alnair	27 42.9	S 46 53.3			
	7	217 26.7	282 52.8	S 21 30.9	N 25	6 8	6 47	17 31	18 10	Alnilam	275 45.0	S 1 11.8			
	8	232 29.2	297 52.5	S 21 30.5	N 20	6 1	6 38	17 40	18 18	Alphard	217 54.7	S 8 43.6			
	9	247 31.6	312 52.3	S 21 30.1	N 15	5 53	6 29	17 49	18 25	Alpheratz	357 42.5	N 29 10.6			
	10	262 34.1	327 52.0	S 21 29.7	N 14	5 52	6 28	17 50	18 26	Altair	62 7.6	N 8 54.5			
	11	277 36.5	342 51.8	S 21 29.2	N 13	5 50	6 26	17 52	18 28	Antares	112 25.2	S 26 27.7			
	12	292 39.0	357 51.6	S 21 28.8	N 12	5 49	6 24	17 54	18 29	Arcturus	145 54.5	N 19 6.7			
	13	307 41.5	12 51.3	S 21 28.4	N 11	5 47	6 23	17 55	18 31	Atria	107 26.4	S 69 2.9			
	14	322 43.9	27 51.1	S 21 28.0	N 10	5 46	6 21	17 57	18 32	Avior	234 16.8	S 59 33.6			
	15	337 46.4	42 50.9	S 21 27.5	N 9	5 44	6 20	17 58	18 34	Bellatrix	278 30.5	N 6 21.6			
	16	352 48.9	57 50.6	S 21 27.1	N 8	5 43	6 18	18 0	18 35	Betelgeuse	270 59.8	N 7 24.3			
	17	7 51.3	72 50.4	S 21 26.7	N 7	5 41	6 16	18 2	18 37	Canopus	263 55.1	S 52 42.5			
	18	22 53.8	87 50.2	S 21 26.3	N 6	5 39	6 15	18 3	18 38	Capella	280 32.4	N 46 0.8			
	19	37 56.3	102 49.9	S 21 25.8	N 5	5 38	6 13	18 5	18 40	Deneb	49 31.1	N 45 20.3			
	20	52 58.7	117 49.7	S 21 25.4	N 4	5 36	6 12	18 6	18 42	Denebola	182 32.3	N 14 29.1			
	21	68 1.2	132 49.5	S 21 25.0	N 3	5 35	6 10	18 8	18 43	Dubhe	193 50.0	N 61 39.9			
	22	83 3.7	147 49.2	S 21 24.5	N 2	5 33	6 9	18 9	18 45	Elnath	278 10.9	N 28 37.1			
23	98 6.1	162 49.0	S 21 24.1	N 1	5 32	6 7	18 11	18 46	Eltanin	90 46.1	N 51 29.3				
14	0	113 8.6	177 48.8	S 21 23.7	S 1	5 29	6 4	18 14	18 49	Enif	33 46.3	N 9 56.8			
	1	128 11.0	192 48.5	S 21 23.2	S 2	5 27	6 2	18 16	18 51	Formalhaut	15 23.2	S 29 32.6			
	2	143 13.5	207 48.3	S 21 22.8	S 3	5 25	6 1	18 17	18 53	Gacrux	171 59.4	S 57 11.5			
	3	158 16.0	222 48.1	S 21 22.4	S 4	5 24	5 59	18 19	18 54	Hadar	148 46.3	S 60 26.4			
	4	173 18.4	237 47.9	S 21 21.9	S 5	5 22	5 58	18 20	18 56	Hamal	327 59.5	N 23 32.0			
	5	188 20.9	252 47.6	S 21 21.5	S 6	5 20	5 56	18 22	18 57	Kaus Aust	83 42.7	S 34 22.4			
	6	203 23.4	267 47.4	S 21 21.1	S 7	5 19	5 54	18 24	18 59	Kochab	137 20.7	N 74 5.4			
	7	218 25.8	282 47.2	S 21 20.6	S 8	5 17	5 53	18 25	19 1	Markab	13 37.4	N 15 17.3			
	8	233 28.3	297 46.9	S 21 20.2	S 9	5 15	5 51	18 27	19 3	Menkent	148 6.1	S 36 26.3			
	9	248 30.8	312 46.7	S 21 19.7	S 10	5 13	5 50	18 28	19 4	Miaplacidu	221 38.3	S 69 46.8			
	10	263 33.2	327 46.5	S 21 19.3	S 11	5 12	5 48	18 30	19 6	Mirfak	308 38.5	N 49 54.9			
	11	278 35.7	342 46.2	S 21 18.9	S 12	5 10	5 46	18 32	19 8	Nunki	75 57.3	S 26 16.5			
	12	293 38.1	357 46.0	S 21 18.4	S 13	5 8	5 45	18 33	19 10	Peacock	53 18.2	S 56 41.1			
	13	308 40.6	12 45.8	S 21 18.0	S 14	5 6	5 43	18 35	19 12	Pollux	243 25.9	N 27 59.1			
	14	323 43.1	27 45.6	S 21 17.5	S 15	5 4	5 41	18 37	19 14	Procyon	244 58.1	N 5 11.2			
	15	338 45.5	42 45.3	S 21 17.1	S 20	4 54	5 32	18 45	19 24	Rasalhague	96 5.8	N 12 33.1			
	16	353 48.0	57 45.1	S 21 16.6	S 25	4 43	5 23	18 55	19 35	Regulus	207 42.1	N 11 53.4			
	17	8 50.5	72 44.9	S 21 16.2	S 30	4 30	5 13	19 5	19 48	Rigel	281 10.7	S 8 11.3			
	18	23 52.9	87 44.7	S 21 15.8	S 35	4 14	5 1	19 17	20 3	Rigel Kent	139 48.5	S 60 53.7			
	19	38 55.4	102 44.4	S 21 15.3	S 40	3 56	4 47	19 30	20 21	Schedar	349 39.3	N 56 37.4			
	20	53 57.9	117 44.2	S 21 14.9	S 45	3 33	4 31	19 46	20 44	Shaula	96 20.8	S 37 6.6			
	21	69 0.3	132 44.0	S 21 14.4	S 50	3 2	4 12	20 6	21 15	Sirius	258 32.3	S 16 44.2			
	22	84 2.8	147 43.8	S 21 14.0	S 55	2 15	3 46	20 31	22 1	Spica	158 30.1	S 11 14.3			
23	99 5.3	162 43.5	S 21 13.5	S 60	—	3 8	21 8	—	Vega	80 38.7	N 38 47.9				
		Sol			Luna										
Día	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase						
	m s	m s		h m											
13	8 22	8 33	0.4	12 9		21.5	54								
14	8 45	8 56	0.4	12 9		22.4	44								

Tabla G. Jueves 15 de enero – viernes 16 de enero de 2015


Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
15	h	° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m	h m	h m	h m	° / ' / "	° / ' / "	° / ' / "
	0	114 7.7	177 43.3	S 21 13.1	N 60	7 26	8 47	15 33	16 53	Achernar	335 26.1	S 57 10.0			
	1	129 10.2	192 43.1	S 21 12.6	N 55	7 9	8 15	16 5	17 11	Acrux	173 7.7	S 63 10.7			
	2	144 12.6	207 42.9	S 21 12.2	N 50	6 55	7 52	16 27	17 25	Adhara	255 11.3	S 28 59.8			
	3	159 15.1	222 42.6	S 21 11.7	N 45	6 43	7 34	16 45	17 36	Aldebaran	290 47.9	N 16 32.2			
	4	174 17.6	237 42.4	S 21 11.3	N 40	6 33	7 20	17 0	17 46	Alioth	166 19.8	N 55 52.4			
	5	189 20.0	252 42.2	S 21 10.8	N 35	6 24	7 7	17 12	17 55	Alkaid	152 58.1	N 49 14.1			
	6	204 22.5	267 42.0	S 21 10.3	N 30	6 16	6 57	17 23	18 4	Alnair	27 42.9	S 46 53.3			
	7	219 25.0	282 41.7	S 21 9.9	N 25	6 8	6 47	17 33	18 11	Alnilam	275 45.0	S 1 11.8			
	8	234 27.4	297 41.5	S 21 9.4	N 20	6 1	6 38	17 42	18 19	Alphard	217 54.7	S 8 43.6			
	9	249 29.9	312 41.3	S 21 9.0	N 15	5 53	6 30	17 50	18 26	Alpheratz	357 42.5	N 29 10.6			
	10	264 32.4	327 41.1	S 21 8.5	N 14	5 52	6 28	17 52	18 28	Altair	62 7.6	N 8 54.5			
	11	279 34.8	342 40.8	S 21 8.1	N 13	5 50	6 26	17 53	18 29	Antares	112 25.1	S 26 27.7			
	12	294 37.3	357 40.6	S 21 7.6	N 12	5 49	6 25	17 55	18 30	Arcturus	145 54.5	N 19 6.7			
	13	309 39.8	12 40.4	S 21 7.1	N 11	5 48	6 23	17 56	18 32	Atria	107 26.4	S 69 2.9			
	14	324 42.2	27 40.2	S 21 6.7	N 10	5 46	6 22	17 58	18 33	Avior	234 16.8	S 59 33.6			
	15	339 44.7	42 40.0	S 21 6.2	N 9	5 45	6 20	17 59	18 35	Bellatrix	278 30.5	N 6 21.5			
	16	354 47.1	57 39.7	S 21 5.8	N 8	5 43	6 18	18 1	18 36	Betelgeuse	270 59.8	N 7 24.3			
	17	9 49.6	72 39.5	S 21 5.3	N 7	5 42	6 17	18 3	18 38	Canopus	263 55.1	S 52 42.5			
	18	24 52.1	87 39.3	S 21 4.8	N 6	5 40	6 15	18 4	18 39	Capella	280 32.4	N 46 0.8			
	19	39 54.5	102 39.1	S 21 4.4	N 5	5 39	6 14	18 6	18 41	Deneb	49 31.1	N 45 20.2			
	20	54 57.0	117 38.9	S 21 3.9	N 4	5 37	6 12	18 7	18 42	Denebola	182 32.3	N 14 29.1			
	21	69 59.5	132 38.6	S 21 3.4	N 3	5 36	6 11	18 9	18 44	Dubhe	193 50.0	N 61 39.9			
22	85 1.9	147 38.4	S 21 3.0	N 2	5 34	6 9	18 10	18 45	Elnath	278 10.9	N 28 37.1				
23	100 4.4	162 38.2	S 21 2.5	N 1	5 33	6 8	18 12	18 47	Eltanin	90 46.1	N 51 29.3				
16	0	115 6.9	177 38.0	S 21 2.0	S 1	5 29	6 5	18 15	18 50	Enif	33 46.3	N 9 56.8			
	1	130 9.3	192 37.8	S 21 1.6	S 2	5 28	6 3	18 16	18 51	Formalhaut	15 23.2	S 29 32.6			
	2	145 11.8	207 37.5	S 21 1.1	S 3	5 26	6 1	18 18	18 53	Gacrux	171 59.4	S 57 11.5			
	3	160 14.2	222 37.3	S 21 0.6	S 4	5 25	6 0	18 19	18 55	Hadar	148 46.3	S 60 26.4			
	4	175 16.7	237 37.1	S 21 0.2	S 5	5 23	5 58	18 21	18 56	Hamal	327 59.5	N 23 32.0			
	5	190 19.2	252 36.9	S 20 59.7	S 6	5 21	5 57	18 22	18 58	Kaus Aust	83 42.7	S 34 22.4			
	6	205 21.6	267 36.7	S 20 59.2	S 7	5 20	5 55	18 24	19 0	Kochab	137 20.6	N 74 5.4			
	7	220 24.1	282 36.5	S 20 58.8	S 8	5 18	5 54	18 26	19 1	Markab	13 37.4	N 15 17.3			
	8	235 26.6	297 36.2	S 20 58.3	S 9	5 16	5 52	18 27	19 3	Menkent	148 6.1	S 36 26.3			
	9	250 29.0	312 36.0	S 20 57.8	S 10	5 15	5 51	18 29	19 5	Miaplacidu	221 38.3	S 69 46.8			
	10	265 31.5	327 35.8	S 20 57.3	S 11	5 13	5 49	18 30	19 6	Mirfak	308 38.5	N 49 54.9			
	11	280 34.0	342 35.6	S 20 56.9	S 12	5 11	5 47	18 32	19 8	Nunki	75 57.3	S 26 16.5			
	12	295 36.4	357 35.4	S 20 56.4	S 13	5 9	5 46	18 34	19 10	Peacock	53 18.2	S 56 41.1			
	13	310 38.9	12 35.2	S 20 55.9	S 14	5 7	5 44	18 35	19 12	Pollux	243 25.9	N 27 59.1			
	14	325 41.4	27 35.0	S 20 55.4	S 15	5 5	5 42	18 37	19 14	Procyon	244 58.1	N 5 11.2			
	15	340 43.8	42 34.7	S 20 55.0	S 20	4 55	5 34	18 45	19 24	Rasalhague	96 5.8	N 12 33.1			
	16	355 46.3	57 34.5	S 20 54.5	S 25	4 44	5 24	18 55	19 35	Regulus	207 42.0	N 11 53.4			
	17	10 48.7	72 34.3	S 20 54.0	S 30	4 31	5 14	19 5	19 47	Rigel	281 10.7	S 8 11.3			
	18	25 51.2	87 34.1	S 20 53.5	S 35	4 17	5 3	19 16	20 2	Rigel Kent	139 48.4	S 60 53.7			
	19	40 53.7	102 33.9	S 20 53.0	S 40	3 59	4 50	19 29	20 20	Schedar	349 39.3	N 56 37.4			
	20	55 56.1	117 33.7	S 20 52.6	S 45	3 36	4 34	19 45	20 42	Shaula	96 20.8	S 37 6.6			
	21	70 58.6	132 33.5	S 20 52.1	S 50	3 6	4 15	20 4	21 12	Sirius	258 32.3	S 16 44.2			
	22	86 1.1	147 33.3	S 20 51.6	S 55	2 21	3 49	20 29	21 57	Spica	158 30.1	S 11 14.3			
23	101 3.5	162 33.0	S 20 51.1	S 60	—	3 13	21 5	—	Vega	80 38.7	N 38 47.9				
Día	Sol						Luna								
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase						
15	m s	m s		h m											
16	9 6	9 17	0.4	12 9		23.3	34								
16	9 28	9 38	0.4	12 10		24.3	25								

Tabla G. Sábado 17 de enero – domingo 18 de enero de 2015.


Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
	h	° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m	h m	h m	° / ' / "	° / ' / "	° / ' / "	
17	0	116 6.0	177 32.8	S 20 50.6	N 60	7 24	8 44	15 38	16 57	Achernar	335 26.1	S 57 10.0			
	1	131 8.5	192 32.6	S 20 50.1	N 55	7 7	8 13	16 8	17 14	Acrux	173 7.7	S 63 10.7			
	2	146 10.9	207 32.4	S 20 49.7	N 50	6 54	7 51	16 30	17 28	Adhara	255 11.3	S 28 59.9			
	3	161 13.4	222 32.2	S 20 49.2	N 45	6 42	7 33	16 48	17 39	Aldebaran	290 47.9	N 16 32.2			
	4	176 15.9	237 32.0	S 20 48.7	N 40	6 33	7 19	17 2	17 48	Alioth	166 19.8	N 55 52.4			
	5	191 18.3	252 31.8	S 20 48.2	N 35	6 24	7 7	17 14	17 57	Alkaid	152 58.1	N 49 14.1			
	6	206 20.8	267 31.6	S 20 47.7	N 30	6 16	6 56	17 25	18 5	Alnair	27 42.9	S 46 53.3			
	7	221 23.2	282 31.4	S 20 47.2	N 25	6 8	6 47	17 34	18 13	Alnilam	275 45.0	S 1 11.8			
	8	236 25.7	297 31.2	S 20 46.7	N 20	6 1	6 38	17 43	18 20	Alphard	217 54.7	S 8 43.6			
	9	251 28.2	312 30.9	S 20 46.2	N 15	5 54	6 30	17 51	18 27	Alpheratz	357 42.5	N 29 10.6			
	10	266 30.6	327 30.7	S 20 45.8	N 14	5 52	6 28	17 53	18 29	Altair	62 7.6	N 8 54.5			
	11	281 33.1	342 30.5	S 20 45.3	N 13	5 51	6 27	17 54	18 30	Antares	112 25.1	S 26 27.7			
	12	296 35.6	357 30.3	S 20 44.8	N 12	5 49	6 25	17 56	18 31	Arcturus	145 54.5	N 19 6.7			
	13	311 38.0	12 30.1	S 20 44.3	N 11	5 48	6 23	17 57	18 33	Atria	107 26.3	S 69 2.9			
	14	326 40.5	27 29.9	S 20 43.8	N 10	5 47	6 22	17 59	18 34	Avior	234 16.8	S 59 33.6			
	15	341 43.0	42 29.7	S 20 43.3	N 9	5 45	6 20	18 0	18 36	Bellatrix	278 30.5	N 6 21.5			
	16	356 45.4	57 29.5	S 20 42.8	N 8	5 44	6 19	18 2	18 37	Betelgeuse	270 59.8	N 7 24.3			
	17	11 47.9	72 29.3	S 20 42.3	N 7	5 42	6 17	18 3	18 39	Canopus	263 55.1	S 52 42.6			
	18	26 50.3	87 29.1	S 20 41.8	N 6	5 41	6 16	18 5	18 40	Capella	280 32.4	N 46 0.8			
	19	41 52.8	102 28.9	S 20 41.3	N 5	5 39	6 14	18 6	18 41	Deneb	49 31.1	N 45 20.2			
	20	56 55.3	117 28.7	S 20 40.8	N 4	5 38	6 13	18 8	18 43	Denebola	182 32.3	N 14 29.1			
	21	71 57.7	132 28.5	S 20 40.3	N 3	5 36	6 11	18 9	18 44	Dubhe	193 50.0	N 61 39.9			
	22	87 0.2	147 28.3	S 20 39.8	N 2	5 35	6 10	18 11	18 46	Elnath	278 10.9	N 28 37.1			
23	102 2.7	162 28.1	S 20 39.3	N 1	5 33	6 8	18 12	18 47	Eltanin	90 46.1	N 51 29.3				
				0	5 32	6 7	18 14	18 49							
18	0	117 5.1	177 27.8	S 20 38.8	S 1	5 30	6 5	18 15	18 50	Enif	33 46.3	N 9 56.8			
	1	132 7.6	192 27.6	S 20 38.3	S 2	5 29	6 4	18 17	18 52	Formalhaut	15 23.2	S 29 32.6			
	2	147 10.1	207 27.4	S 20 37.8	S 3	5 27	6 2	18 18	18 53	Gacrux	171 59.4	S 57 11.5			
	3	162 12.5	222 27.2	S 20 37.3	S 4	5 26	6 1	18 20	18 55	Hadara	148 46.2	S 60 26.4			
	4	177 15.0	237 27.0	S 20 36.8	S 5	5 24	5 59	18 21	18 57	Hamal	327 59.5	N 23 32.0			
	5	192 17.5	252 26.8	S 20 36.3	S 6	5 22	5 58	18 23	18 58	Kaus Aust	83 42.7	S 34 22.4			
	6	207 19.9	267 26.6	S 20 35.8	S 7	5 21	5 56	18 24	19 0	Kochab	137 20.6	N 74 5.4			
	7	222 22.4	282 26.4	S 20 35.3	S 8	5 19	5 55	18 26	19 2	Markab	13 37.4	N 15 17.3			
	8	237 24.8	297 26.2	S 20 34.8	S 9	5 17	5 53	18 28	19 3	Menkent	148 6.1	S 36 26.3			
	9	252 27.3	312 26.0	S 20 34.3	S 10	5 16	5 52	18 29	19 5	Miaplacidu	221 38.3	S 69 46.8			
	10	267 29.8	327 25.8	S 20 33.8	S 11	5 14	5 50	18 31	19 7	Mirfak	308 38.5	N 49 54.9			
	11	282 32.2	342 25.6	S 20 33.3	S 12	5 12	5 48	18 32	19 8	Nunki	75 57.3	S 26 16.5			
	12	297 34.7	357 25.4	S 20 32.8	S 13	5 10	5 47	18 34	19 10	Peacock	53 18.2	S 56 41.1			
	13	312 37.2	12 25.2	S 20 32.3	S 14	5 9	5 45	18 35	19 12	Pollux	243 25.9	N 27 59.1			
	14	327 39.6	27 25.0	S 20 31.7	S 15	5 7	5 44	18 37	19 14	Procyon	244 58.1	N 5 11.2			
	15	342 42.1	42 24.8	S 20 31.2	S 20	4 57	5 35	18 45	19 24	Rasalhague	96 5.8	N 12 33.1			
	16	357 44.6	57 24.6	S 20 30.7	S 25	4 46	5 26	18 54	19 34	Regulus	207 42.0	N 11 53.4			
	17	12 47.0	72 24.4	S 20 30.2	S 30	4 33	5 16	19 4	19 47	Rigel	281 10.7	S 8 11.4			
	18	27 49.5	87 24.2	S 20 29.7	S 35	4 19	5 5	19 15	20 1	Rigel Kent	139 48.4	S 60 53.7			
	19	42 52.0	102 24.0	S 20 29.2	S 40	4 1	4 52	19 28	20 19	Schedar	349 39.3	N 56 37.4			
	20	57 54.4	117 23.8	S 20 28.7	S 45	3 39	4 37	19 43	20 41	Shaula	96 20.8	S 37 6.6			
	21	72 56.9	132 23.6	S 20 28.2	S 50	3 10	4 18	20 2	21 10	Sirius	258 32.3	S 16 44.2			
	22	87 59.3	147 23.4	S 20 27.6	S 55	2 26	3 53	20 27	21 52	Spica	158 30.0	S 11 14.3			
23	103 1.8	162 23.2	S 20 27.1	S 60	0 47	3 18	21 1	23 24	Vega	80 38.7	N 38 47.9				
		Sol						Luna							
Día		Ecuación del tiempo (00 ^h)		Corr. <i>d</i>	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase					
		m s	m s		h m										
17		9 48	9 58	0.5	12 10		25.4	16							
18		10 8	10 18	0.5	12 10		26.5	9							

Tabla G. Lunes 19 de enero – martes 20 de enero de 2015.

Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
		h	° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m	h m	° / ' / "	° / ' / "	° / ' / "	
19	0	118	4.3	177 23.0	S 20 26.6	N 60	7 21	8 40	15 43	17 1	Achernar	335 26.1	S 57 10.0		
	1	133	6.7	192 22.8	S 20 26.1	N 55	7 5	8 10	16 12	17 17	Acrux	173 7.6	S 63 10.7		
	2	148	9.2	207 22.6	S 20 25.6	N 50	6 52	7 49	16 34	17 30	Adhara	255 11.3	S 28 59.9		
	3	163	11.7	222 22.5	S 20 25.1	N 45	6 41	7 32	16 50	17 41	Aldebaran	290 47.9	N 16 32.2		
	4	178	14.1	237 22.3	S 20 24.5	N 40	6 32	7 18	17 4	17 51	Alioth	166 19.7	N 55 52.4		
	5	193	16.6	252 22.1	S 20 24.0	N 35	6 23	7 6	17 16	17 59	Alkaid	152 58.1	N 49 14.1		
	6	208	19.1	267 21.9	S 20 23.5	N 30	6 15	6 56	17 26	18 7	Alnair	27 42.9	S 46 53.3		
	7	223	21.5	282 21.7	S 20 23.0	N 25	6 8	6 46	17 36	18 14	Alnilam	275 45.0	S 1 11.8		
	8	238	24.0	297 21.5	S 20 22.5	N 20	6 1	6 38	17 44	18 21	Alphard	217 54.7	S 8 43.6		
	9	253	26.5	312 21.3	S 20 21.9	N 15	5 54	6 30	17 52	18 28	Alpheratz	357 42.5	N 29 10.6		
	10	268	28.9	327 21.1	S 20 21.4	N 14	5 52	6 28	17 54	18 30	Altair	62 7.6	N 8 54.5		
	11	283	31.4	342 20.9	S 20 20.9	N 13	5 51	6 27	17 55	18 31	Antares	112 25.1	S 26 27.7		
	12	298	33.8	357 20.7	S 20 20.4	N 12	5 50	6 25	17 57	18 32	Arcturus	145 54.5	N 19 6.7		
	13	313	36.3	12 20.5	S 20 19.8	N 11	5 48	6 24	17 58	18 34	Atria	107 26.3	S 69 2.8		
	14	328	38.8	27 20.3	S 20 19.3	N 10	5 47	6 22	18 0	18 35	Avior	234 16.8	S 59 33.6		
	15	343	41.2	42 20.1	S 20 18.8	N 9	5 45	6 21	18 1	18 36	Bellatrix	278 30.5	N 6 21.5		
	16	358	43.7	57 19.9	S 20 18.3	N 8	5 44	6 19	18 3	18 38	Betelgeuse	270 59.8	N 7 24.3		
	17	13	46.2	72 19.7	S 20 17.7	N 7	5 43	6 18	18 4	18 39	Canopus	263 55.1	S 52 42.6		
	18	28	48.6	87 19.6	S 20 17.2	N 6	5 41	6 16	18 6	18 41	Capella	280 32.4	N 46 0.8		
	19	43	51.1	102 19.4	S 20 16.7	N 5	5 40	6 15	18 7	18 42	Deneb	49 31.1	N 45 20.2		
	20	58	53.6	117 19.2	S 20 16.1	N 4	5 38	6 13	18 9	18 44	Denebola	182 32.3	N 14 29.1		
	21	73	56.0	132 19.0	S 20 15.6	N 3	5 37	6 12	18 10	18 45	Dubhe	193 50.0	N 61 39.9		
	22	88	58.5	147 18.8	S 20 15.1	N 2	5 35	6 10	18 12	18 46	Elnath	278 10.9	N 28 37.1		
23	104	0.9	162 18.6	S 20 14.5	N 1	5 34	6 9	18 13	18 48	Eltanin	90 46.1	N 51 29.3			
20	0	119	3.4	177 18.4	S 20 14.0	S 1	5 31	6 6	18 16	18 51	Enif	33 46.3	N 9 56.8		
	1	134	5.9	192 18.2	S 20 13.5	S 2	5 29	6 4	18 17	18 52	Formalhaut	15 23.2	S 29 32.6		
	2	149	8.3	207 18.0	S 20 12.9	S 3	5 28	6 3	18 19	18 54	Gacrux	171 59.3	S 57 11.6		
	3	164	10.8	222 17.8	S 20 12.4	S 4	5 26	6 2	18 20	18 55	Hadar	148 46.2	S 60 26.4		
	4	179	13.3	237 17.7	S 20 11.9	S 5	5 25	6 0	18 22	18 57	Hamal	327 59.5	N 23 32.0		
	5	194	15.7	252 17.5	S 20 11.3	S 6	5 23	5 59	18 23	18 59	Kaus Aust	83 42.7	S 34 22.4		
	6	209	18.2	267 17.3	S 20 10.8	S 7	5 22	5 57	18 25	19 0	Kochab	137 20.6	N 74 5.4		
	7	224	20.7	282 17.1	S 20 10.3	S 8	5 20	5 56	18 26	19 2	Markab	13 37.4	N 15 17.3		
	8	239	23.1	297 16.9	S 20 9.7	S 9	5 18	5 54	18 28	19 4	Menkent	148 6.1	S 36 26.3		
	9	254	25.6	312 16.7	S 20 9.2	S 10	5 17	5 52	18 29	19 5	Miaplacidu	221 38.3	S 69 46.8		
	10	269	28.1	327 16.5	S 20 8.7	S 11	5 15	5 51	18 31	19 7	Mirfak	308 38.5	N 49 54.9		
	11	284	30.5	342 16.4	S 20 8.1	S 12	5 13	5 49	18 32	19 8	Nunki	75 57.3	S 26 16.5		
	12	299	33.0	357 16.2	S 20 7.6	S 13	5 12	5 48	18 34	19 10	Peacock	53 18.2	S 56 41.0		
	13	314	35.4	12 16.0	S 20 7.0	S 14	5 10	5 46	18 36	19 12	Pollux	243 25.9	N 27 59.1		
	14	329	37.9	27 15.8	S 20 6.5	S 15	5 8	5 45	18 37	19 14	Procyon	244 58.1	N 5 11.2		
	15	344	40.4	42 15.6	S 20 5.9	S 20	4 58	5 36	18 45	19 23	Rasalhague	96 5.7	N 12 33.1		
	16	359	42.8	57 15.4	S 20 5.4	S 25	4 48	5 27	18 54	19 34	Regulus	207 42.0	N 11 53.4		
	17	14	45.3	72 15.2	S 20 4.9	S 30	4 35	5 18	19 4	19 46	Rigel	281 10.7	S 8 11.4		
	18	29	47.8	87 15.1	S 20 4.3	S 35	4 21	5 7	19 15	20 0	Rigel Kent	139 48.4	S 60 53.7		
	19	44	50.2	102 14.9	S 20 3.8	S 40	4 4	4 54	19 27	20 17	Schedar	349 39.3	N 56 37.4		
	20	59	52.7	117 14.7	S 20 3.2	S 45	3 42	4 39	19 42	20 39	Shaula	96 20.7	S 37 6.6		
	21	74	55.2	132 14.5	S 20 2.7	S 50	3 14	4 21	20 0	21 7	Sirius	258 32.3	S 16 44.2		
	22	89	57.6	147 14.3	S 20 2.1	S 55	2 32	3 57	20 24	21 48	Spica	158 30.0	S 11 14.3		
23	105	0.1	162 14.2	S 20 1.6	S 60	1 6	3 23	20 57	23 10	Vega	80 38.7	N 38 47.9			
		Sol						Luna							
Día	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase						
	m s	m s		h m											
19	10 27	10 37	0.5	12 11		27.6	3								
20	10 46	10 55	0.5	12 11		28.8	0								

Tabla G. Miércoles 21 de enero – jueves 22 de enero de 2015.

Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
21	h	° /	° /	° /	°	h m	h m	h m	h m						
	0	120 2.6	177 14.0	S 20 1.0	N 60	7 19	8 36	15 47	17 5	Achernar	335 26.2	S 57 10.0			
	1	135 5.0	192 13.8	S 20 0.5	N 55	7 3	8 8	16 16	17 21	Acrux	173 7.6	S 63 10.7			
	2	150 7.5	207 13.6	S 19 59.9	N 50	6 50	7 47	16 37	17 33	Adhara	255 11.3	S 28 59.9			
	3	165 9.9	222 13.4	S 19 59.4	N 45	6 40	7 30	16 53	17 44	Aldebaran	290 47.9	N 16 32.2			
	4	180 12.4	237 13.3	S 19 58.8	N 40	6 31	7 17	17 7	17 53	Alioth	166 19.7	N 55 52.4			
	5	195 14.9	252 13.1	S 19 58.3	N 35	6 23	7 5	17 18	18 1	Alkaid	152 58.0	N 49 14.1			
	6	210 17.3	267 12.9	S 19 57.7	N 30	6 15	6 55	17 28	18 8	Alnair	27 42.9	S 46 53.3			
	7	225 19.8	282 12.7	S 19 57.2	N 25	6 8	6 46	17 37	18 15	Alnilam	275 45.0	S 1 11.8			
	8	240 22.3	297 12.5	S 19 56.6	N 20	6 1	6 38	17 45	18 22	Alphard	217 54.7	S 8 43.7			
	9	255 24.7	312 12.4	S 19 56.1	N 15	5 54	6 30	17 53	18 29	Alpheratz	357 42.5	N 29 10.6			
	10	270 27.2	327 12.2	S 19 55.5	N 14	5 53	6 28	17 55	18 30	Altair	62 7.6	N 8 54.5			
	11	285 29.7	342 12.0	S 19 55.0	N 13	5 51	6 27	17 56	18 32	Antares	112 25.1	S 26 27.7			
	12	300 32.1	357 11.8	S 19 54.4	N 12	5 50	6 25	17 58	18 33	Arcturus	145 54.5	N 19 6.7			
	13	315 34.6	12 11.6	S 19 53.9	N 11	5 49	6 24	17 59	18 35	Atria	107 26.3	S 69 2.8			
	14	330 37.0	27 11.5	S 19 53.3	N 10	5 47	6 22	18 1	18 36	Avior	234 16.8	S 59 33.7			
	15	345 39.5	42 11.3	S 19 52.7	N 9	5 46	6 21	18 2	18 37	Bellatrix	278 30.5	N 6 21.5			
	16	0 42.0	57 11.1	S 19 52.2	N 8	5 44	6 20	18 4	18 39	Betelgeuse	270 59.8	N 7 24.3			
	17	15 44.4	72 10.9	S 19 51.6	N 7	5 43	6 18	18 5	18 40	Canopus	263 55.1	S 52 42.6			
	18	30 46.9	87 10.8	S 19 51.1	N 6	5 42	6 17	18 6	18 41	Capella	280 32.4	N 46 0.8			
	19	45 49.4	102 10.6	S 19 50.5	N 5	5 40	6 15	18 8	18 43	Deneb	49 31.1	N 45 20.2			
	20	60 51.8	117 10.4	S 19 49.9	N 4	5 39	6 14	18 9	18 44	Denebola	182 32.2	N 14 29.1			
	21	75 54.3	132 10.2	S 19 49.4	N 3	5 37	6 12	18 11	18 46	Dubhe	193 49.9	N 61 39.9			
22	90 56.8	147 10.1	S 19 48.8	N 2	5 36	6 11	18 12	18 47	Elnath	278 10.9	N 28 37.1				
23	105 59.2	162 9.9	S 19 48.3	N 1	5 35	6 9	18 14	18 48	Eltanin	90 46.1	N 51 29.2				
22	0	121 1.7	177 9.7	S 19 47.7	S 1	5 33	6 8	18 15	18 50						
	1	136 4.2	192 9.5	S 19 47.1	S 2	5 32	6 7	18 16	18 51	Enif	33 46.3	N 9 56.7			
	2	151 6.6	207 9.4	S 19 46.6	S 3	5 30	6 5	18 18	18 53	Formalhaut	15 23.2	S 29 32.6			
	3	166 9.1	222 9.2	S 19 46.0	S 4	5 29	6 4	18 19	18 54	Gacrux	171 59.3	S 57 11.6			
	4	181 11.5	237 9.0	S 19 45.4	S 5	5 27	6 2	18 21	18 56	Hadar	148 46.2	S 60 26.4			
	5	196 14.0	252 8.9	S 19 44.9	S 6	5 26	6 1	18 22	18 57	Hamal	327 59.5	N 23 32.0			
	6	211 16.5	267 8.7	S 19 44.3	S 7	5 24	5 59	18 24	18 59	Kaus Aust	83 42.7	S 34 22.4			
	7	226 18.9	282 8.5	S 19 43.7	S 8	5 23	5 58	18 25	19 0	Kochab	137 20.5	N 74 5.4			
	8	241 21.4	297 8.3	S 19 43.2	S 9	5 21	5 56	18 27	19 2	Markab	13 37.4	N 15 17.3			
	9	256 23.9	312 8.2	S 19 42.6	S 10	5 19	5 55	18 28	19 4	Menkent	148 6.1	S 36 26.3			
	10	271 26.3	327 8.0	S 19 42.0	S 11	5 18	5 53	18 30	19 5	Miaplacidu	221 38.2	S 69 46.8			
	11	286 28.8	342 7.8	S 19 41.4	S 12	5 16	5 52	18 31	19 7	Mirfak	308 38.5	N 49 54.9			
	12	301 31.3	357 7.7	S 19 40.9	S 13	5 14	5 50	18 33	19 8	Nunki	75 57.3	S 26 16.5			
	13	316 33.7	12 7.5	S 19 40.3	S 14	5 13	5 49	18 34	19 10	Peacock	53 18.2	S 56 41.0			
	14	331 36.2	27 7.3	S 19 39.7	S 15	5 11	5 47	18 36	19 12	Pollux	243 25.8	N 27 59.1			
	15	346 38.7	42 7.2	S 19 39.2	S 20	5 9	5 46	18 37	19 14	Procyon	244 58.1	N 5 11.2			
	16	1 41.1	57 7.0	S 19 38.6	S 25	5 0	5 38	18 45	19 23	Rasalhague	96 5.7	N 12 33.1			
	17	16 43.6	72 6.8	S 19 38.0	S 30	4 49	5 29	18 54	19 33	Regulus	207 42.0	N 11 53.4			
	18	31 46.0	87 6.7	S 19 37.4	S 35	4 37	5 20	19 3	19 45	Rigel	281 10.7	S 8 11.4			
	19	46 48.5	102 6.5	S 19 36.9	S 40	4 23	5 9	19 14	19 59	Rigel Kent	139 48.4	S 60 53.7			
	20	61 51.0	117 6.3	S 19 36.3	S 45	4 7	4 57	19 26	20 16	Schedar	349 39.3	N 56 37.4			
	21	76 53.4	132 6.2	S 19 35.7	S 50	3 46	4 42	19 40	20 36	Shaula	96 20.7	S 37 6.6			
	22	91 55.9	147 6.0	S 19 35.1	S 55	3 18	4 24	19 58	21 4	Sirius	258 32.3	S 16 44.2			
23	106 58.4	162 5.8	S 19 34.5	S 60	2 38	4 1	20 21	21 43	Spica	158 30.0	S 11 14.3				
						1 20	20 53	22 57	Vega	80 38.7	N 38 47.9				
Día	Sol			Luna											
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase						
21	m s	m s		h m											
22	11 4	11 12	0.5	12 11		0.4	0				●				
	11 21	11 29	0.5	12 11		1.6	3								

Tabla G. Viernes 23 de enero – sábado 24 de enero de 2015.


Día	TU	Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		Aries	Sol							Nombre	SHA	Dec.
		GHA	GHA	Dec.		h m	h m	h m	h m		° / ' / "	° / ' / "
23	h	° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m	Nombre	° / ' / "	° / ' / "
	0	122 0.8	177 5.7	S 19 34.0	N 60	7 16	8 32	15 52	17 9	Achernar	335 26.2	S 57 10.0
	1	137 3.3	192 5.5	S 19 33.4	N 55	7 1	8 5	16 20	17 24	Acrux	173 7.6	S 63 10.7
	2	152 5.8	207 5.3	S 19 32.8	N 50	6 48	7 45	16 40	17 36	Adhara	255 11.3	S 28 59.9
	3	167 8.2	222 5.2	S 19 32.2	N 45	6 38	7 29	16 56	17 46	Aldebaran	290 47.9	N 16 32.2
	4	182 10.7	237 5.0	S 19 31.6	N 40	6 30	7 15	17 9	17 55	Alioth	166 19.7	N 55 52.4
	5	197 13.1	252 4.8	S 19 31.1	N 35	6 22	7 4	17 20	18 3	Alkaid	152 58.0	N 49 14.0
	6	212 15.6	267 4.7	S 19 30.5	N 30	6 14	6 54	17 30	18 10	Alnair	27 42.9	S 46 53.3
	7	227 18.1	282 4.5	S 19 29.9	N 25	6 7	6 46	17 39	18 17	Alnilam	275 45.0	S 1 11.8
	8	242 20.5	297 4.3	S 19 29.3	N 20	6 1	6 38	17 47	18 24	Alphard	217 54.7	S 8 43.7
	9	257 23.0	312 4.2	S 19 28.7	N 15	5 54	6 30	17 54	18 30	Alpheratz	357 42.5	N 29 10.6
	10	272 25.5	327 4.0	S 19 28.1	N 14	5 53	6 28	17 56	18 31	Altair	62 7.6	N 8 54.5
	11	287 27.9	342 3.9	S 19 27.6	N 13	5 51	6 27	17 57	18 33	Antares	112 25.1	S 26 27.7
	12	302 30.4	357 3.7	S 19 27.0	N 12	5 50	6 25	17 59	18 34	Arcturus	145 54.5	N 19 6.6
	13	317 32.9	12 3.5	S 19 26.4	N 11	5 49	6 24	18 0	18 35	Atria	107 26.2	S 69 2.8
	14	332 35.3	27 3.4	S 19 25.8	N 10	5 47	6 23	18 2	18 37	Avior	234 16.8	S 59 33.7
	15	347 37.8	42 3.2	S 19 25.2	N 9	5 46	6 21	18 3	18 38	Bellatrix	278 30.6	N 6 21.5
	16	2 40.3	57 3.1	S 19 24.6	N 8	5 45	6 20	18 4	18 39	Betelgeuse	270 59.8	N 7 24.3
	17	17 42.7	72 2.9	S 19 24.0	N 7	5 43	6 18	18 6	18 41	Canopus	263 55.2	S 52 42.6
	18	32 45.2	87 2.7	S 19 23.4	N 6	5 42	6 17	18 7	18 42	Capella	280 32.5	N 46 0.8
	19	47 47.6	102 2.6	S 19 22.9	N 5	5 41	6 16	18 9	18 43	Deneb	49 31.1	N 45 20.2
	20	62 50.1	117 2.4	S 19 22.3	N 4	5 39	6 14	18 10	18 45	Denebola	182 32.2	N 14 29.1
	21	77 52.6	132 2.3	S 19 21.7	N 3	5 38	6 13	18 11	18 46	Dubhe	193 49.9	N 61 39.9
22	92 55.0	147 2.1	S 19 21.1	N 2	5 37	6 11	18 13	18 47	Elnath	278 10.9	N 28 37.1	
23	107 57.5	162 2.0	S 19 20.5	N 1	5 35	6 10	18 14	18 49	Eltanin	90 46.1	N 51 29.2	
					0	5 34	6 9	18 16	18 50			
24	0	123 00.0	177 1.8	S 19 19.9	S 1	5 32	6 7	18 17	18 52	Enif	33 46.3	N 9 56.7
	1	138 2.4	192 1.6	S 19 19.3	S 2	5 31	6 6	18 18	18 53	Formalhaut	15 23.2	S 29 32.6
	2	153 4.9	207 1.5	S 19 18.7	S 3	5 29	6 4	18 20	18 55	Gacrux	171 59.3	S 57 11.6
	3	168 7.4	222 1.3	S 19 18.1	S 4	5 28	6 3	18 21	18 56	Hadar	148 46.1	S 60 26.4
	4	183 9.8	237 1.2	S 19 17.5	S 5	5 27	6 1	18 23	18 57	Hamal	327 59.5	N 23 32.0
	5	198 12.3	252 1.0	S 19 16.9	S 6	5 25	6 0	18 24	18 59	Kaus Aust	83 42.7	S 34 22.4
	6	213 14.8	267 0.9	S 19 16.3	S 7	5 23	5 59	18 25	19 0	Kochab	137 20.5	N 74 5.4
	7	228 17.2	282 0.7	S 19 15.7	S 8	5 22	5 57	18 27	19 2	Markab	13 37.5	N 15 17.3
	8	243 19.7	297 0.6	S 19 15.1	S 9	5 20	5 56	18 28	19 4	Menkent	148 6.0	S 36 26.3
	9	258 22.1	312 0.4	S 19 14.5	S 10	5 19	5 54	18 30	19 5	Miaplacidu	221 38.2	S 69 46.9
	10	273 24.6	327 0.2	S 19 13.9	S 11	5 17	5 53	18 31	19 7	Mirfak	308 38.5	N 49 54.9
	11	288 27.1	342 0.1	S 19 13.3	S 12	5 16	5 51	18 33	19 8	Nunki	75 57.3	S 26 16.5
	12	303 29.5	356 59.9	S 19 12.7	S 13	5 14	5 50	18 34	19 10	Peacock	53 18.2	S 56 41.0
	13	318 32.0	11 59.8	S 19 12.1	S 14	5 12	5 48	18 36	19 12	Pollux	243 25.8	N 27 59.1
	14	333 34.5	26 59.6	S 19 11.5	S 15	5 10	5 47	18 37	19 13	Procyon	244 58.1	N 5 11.2
	15	348 36.9	41 59.5	S 19 10.9	S 20	5 1	5 39	18 45	19 23	Rasalhague	96 5.7	N 12 33.1
	16	3 39.4	56 59.3	S 19 10.3	S 25	4 51	5 31	18 53	19 33	Regulus	207 42.0	N 11 53.4
	17	18 41.9	71 59.2	S 19 9.7	S 30	4 39	5 21	19 2	19 44	Rigel	281 10.7	S 8 11.4
	18	33 44.3	86 59.0	S 19 9.1	S 35	4 26	5 11	19 13	19 58	Rigel Kent	139 48.3	S 60 53.7
	19	48 46.8	101 58.9	S 19 8.5	S 40	4 9	4 59	19 25	20 14	Schedar	349 39.4	N 56 37.4
	20	63 49.2	116 58.7	S 19 7.9	S 45	3 49	4 45	19 39	20 34	Shaula	96 20.7	S 37 6.6
	21	78 51.7	131 58.6	S 19 7.3	S 50	3 22	4 27	19 56	21 1	Sirius	258 32.3	S 16 44.2
	22	93 54.2	146 58.4	S 19 6.7	S 55	2 43	4 5	20 18	21 38	Spica	158 30.0	S 11 14.4
23	108 56.6	161 58.3	S 19 6.1	S 60	1 33	3 34	20 49	22 47	Vega	80 38.6	N 38 47.9	
		Sol				Luna						
Día	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día	Porcentaje de iluminación		Fase				
	m s	m s		h m								
23	11 37	11 45	0.6	12 12	2.7	8						
24	11 52	12 0	0.6	12 12	3.8	16						

Tabla G. Domingo 25 de enero – lunes 26 de enero de 2015.


Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
25	h	° /	° /	° /	°	h m	h m	h m	h m						
	0	123 59.1	176 58.1	S 19 5.5	N 60	7 12	8 28	15 58	17 13	Achernar	335 26.2	S 57 10.0			
	1	139 1.6	191 58.0	S 19 4.8	N 55	6 58	8 2	16 24	17 28	Acrux	173 7.6	S 63 10.7			
	2	154 4.0	206 57.8	S 19 4.2	N 50	6 46	7 42	16 43	17 39	Adhara	255 11.3	S 28 59.9			
	3	169 6.5	221 57.7	S 19 3.6	N 45	6 37	7 27	16 59	17 49	Aldebaran	290 47.9	N 16 32.2			
	4	184 9.0	236 57.5	S 19 3.0	N 40	6 28	7 14	17 11	17 57	Alioth	166 19.7	N 55 52.4			
	5	199 11.4	251 57.4	S 19 2.4	N 35	6 21	7 3	17 22	18 5	Alkaid	152 58.0	N 49 14.0			
	6	214 13.9	266 57.2	S 19 1.8	N 30	6 14	6 54	17 32	18 12	Alnair	27 42.9	S 46 53.3			
	7	229 16.4	281 57.1	S 19 1.2	N 25	6 7	6 45	17 40	18 18	Alnilam	275 45.0	S 1 11.8			
	8	244 18.8	296 57.0	S 19 0.6	N 20	6 0	6 37	17 48	18 25	Alphard	217 54.7	S 8 43.7			
	9	259 21.3	311 56.8	S 18 59.9	N 15	5 54	6 30	17 55	18 31	Alpheratz	357 42.5	N 29 10.6			
	10	274 23.7	326 56.7	S 18 59.3	N 14	5 53	6 28	17 57	18 32	Altair	62 7.6	N 8 54.5			
	11	289 26.2	341 56.5	S 18 58.7	N 13	5 52	6 27	17 58	18 34	Antares	112 25.1	S 26 27.7			
	12	304 28.7	356 56.4	S 18 58.1	N 12	5 50	6 25	18 0	18 35	Arcturus	145 54.4	N 19 6.6			
	13	319 31.1	11 56.2	S 18 57.5	N 11	5 49	6 24	18 1	18 36	Atria	107 26.2	S 69 2.8			
	14	334 33.6	26 56.1	S 18 56.9	N 10	5 48	6 23	18 2	18 37	Avior	234 16.8	S 59 33.7			
	15	349 36.1	41 55.9	S 18 56.3	N 9	5 46	6 21	18 4	18 39	Bellatrix	278 30.6	N 6 21.5			
	16	4 38.5	56 55.8	S 18 55.6	N 8	5 45	6 20	18 5	18 40	Betelgeuse	270 59.8	N 7 24.3			
	17	19 41.0	71 55.7	S 18 55.0	N 7	5 44	6 19	18 6	18 41	Canopus	263 55.2	S 52 42.6			
	18	34 43.5	86 55.5	S 18 54.4	N 6	5 42	6 17	18 8	18 43	Capella	280 32.5	N 46 0.8			
	19	49 45.9	101 55.4	S 18 53.8	N 5	5 41	6 16	18 9	18 44	Deneb	49 31.1	N 45 20.2			
	20	64 48.4	116 55.2	S 18 53.2	N 4	5 40	6 14	18 11	18 45	Denebola	182 32.2	N 14 29.1			
	21	79 50.9	131 55.1	S 18 52.5	N 3	5 38	6 13	18 12	18 47	Dubhe	193 49.9	N 61 39.9			
22	94 53.3	146 54.9	S 18 51.9	N 2	5 37	6 12	18 13	18 48	Elnath	278 10.9	N 28 37.1				
23	109 55.8	161 54.8	S 18 51.3	N 1	5 36	6 10	18 15	18 49	Eltanin	90 46.1	N 51 29.2				
26	0	124 58.2	176 54.7	S 18 50.7	S 1	5 34	6 9	18 16	18 51						
	1	140 0.7	191 54.5	S 18 50.0	S 2	5 33	6 8	18 17	18 52	Enif	33 46.3	N 9 56.7			
	2	155 3.2	206 54.4	S 18 49.4	S 3	5 32	6 6	18 19	18 53	Formalhaut	15 23.2	S 29 32.6			
	3	170 5.6	221 54.3	S 18 48.8	S 4	5 30	6 5	18 20	18 55	Gacrux	171 59.3	S 57 11.6			
	4	185 8.1	236 54.1	S 18 48.2	S 5	5 29	6 4	18 21	18 56	Hadar	148 46.1	S 60 26.4			
	5	200 10.6	251 54.0	S 18 47.5	S 6	5 27	6 2	18 23	18 58	Hamal	327 59.5	N 23 32.0			
	6	215 13.0	266 53.8	S 18 46.9	S 7	5 26	6 1	18 24	18 59	Kaus Aust	83 42.7	S 34 22.4			
	7	230 15.5	281 53.7	S 18 46.3	S 8	5 24	5 59	18 26	19 1	Kochab	137 20.4	N 74 5.4			
	8	245 18.0	296 53.6	S 18 45.7	S 9	5 23	5 58	18 27	19 2	Markab	13 37.5	N 15 17.3			
	9	260 20.4	311 53.4	S 18 45.0	S 10	5 21	5 56	18 28	19 4	Menkent	148 6.0	S 36 26.3			
	10	275 22.9	326 53.3	S 18 44.4	S 11	5 20	5 55	18 30	19 5	Miaplacidu	221 38.2	S 69 46.9			
	11	290 25.4	341 53.2	S 18 43.8	S 12	5 18	5 54	18 31	19 7	Mirfak	308 38.5	N 49 54.9			
	12	305 27.8	356 53.0	S 18 43.1	S 13	5 17	5 52	18 33	19 8	Nunki	75 57.3	S 26 16.5			
	13	320 30.3	11 52.9	S 18 42.5	S 14	5 15	5 51	18 34	19 10	Peacock	53 18.2	S 56 41.0			
	14	335 32.7	26 52.7	S 18 41.9	S 15	5 13	5 49	18 35	19 11	Pollux	243 25.8	N 27 59.1			
	15	350 35.2	41 52.6	S 18 41.2	S 20	5 12	5 48	18 37	19 13	Procyon	244 58.1	N 5 11.2			
	16	5 37.7	56 52.5	S 18 40.6	S 25	5 11	5 47	18 38	19 14	Rasalhague	96 5.7	N 12 33.1			
	17	20 40.1	71 52.3	S 18 40.0	S 30	5 10	5 46	18 39	19 15	Regulus	207 42.0	N 11 53.4			
	18	35 42.6	86 52.2	S 18 39.4	S 35	4 41	5 23	19 2	19 43	Rigel	281 10.7	S 8 11.4			
	19	50 45.1	101 52.1	S 18 38.7	S 40	4 28	5 13	19 12	19 56	Rigel Kent	139 48.3	S 60 53.7			
	20	65 47.5	116 51.9	S 18 38.1	S 45	4 12	5 1	19 23	20 12	Schedar	349 39.4	N 56 37.4			
	21	80 50.0	131 51.8	S 18 37.4	S 50	4 1	4 58	19 24	20 23	Shaula	96 20.7	S 37 6.6			
	22	95 52.5	146 51.7	S 18 36.8	S 55	3 52	4 48	19 25	20 34	Sirius	258 32.3	S 16 44.2			
23	110 54.9	161 51.5	S 18 36.2	S 60	2 49	4 9	20 15	21 34	Spica	158 30.0	S 11 14.4				
					1 44	3 39	20 44	22 36	Vega	80 38.6	N 38 47.8				
Día	Sol			Luna											
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase						
25	m s	m s		h m											
26	12 7	12 14	0.6	12 12		4.8	26								
	12 21	12 28	0.6	12 12		5.8	36								

Tabla G. Martes 27 de enero – miércoles 28 de enero de 2015.

Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas					
		GHA	GHA	Dec.	Nombre	SHA	Dec.											
		° / ' / "	° / ' / "	° / ' / "	°	'	"	h	m	h	m	h	m	°	'	°	'	"
27	h																	
	0	125 57.4	176 51.4	S 18 35.5	N 60	7 9	8 24	16 3	17 18	Achernar	335 26.2	S 57 10.0						
	1	140 59.8	191 51.3	S 18 34.9	N 55	6 55	7 59	16 28	17 31	Acrux	173 7.5	S 63 10.7						
	2	156 2.3	206 51.1	S 18 34.3	N 50	6 44	7 40	16 47	17 42	Alhara	255 11.3	S 28 59.9						
	3	171 4.8	221 51.0	S 18 33.6	N 45	6 35	7 25	17 1	17 51	Aldebaran	290 47.9	N 16 32.2						
	4	186 7.2	236 50.9	S 18 33.0	N 40	6 27	7 12	17 14	17 59	Alioth	166 19.7	N 55 52.4						
	5	201 9.7	251 50.8	S 18 32.3	N 35	6 20	7 2	17 24	18 6	Alkaid	152 58.0	N 49 14.0						
	6	216 12.2	266 50.6	S 18 31.7	N 30	6 13	6 53	17 33	18 13	Alnair	27 42.9	S 46 53.3						
	7	231 14.6	281 50.5	S 18 31.1	N 25	6 6	6 44	17 42	18 20	Alnilam	275 45.0	S 1 11.8						
	8	246 17.1	296 50.4	S 18 30.4	N 20	6 0	6 37	17 49	18 26	Alphard	217 54.7	S 8 43.7						
	9	261 19.6	311 50.2	S 18 29.8	N 15	5 54	6 30	17 56	18 32	Alpheratz	357 42.5	N 29 10.5						
	10	276 22.0	326 50.1	S 18 29.1	N 14	5 53	6 28	17 58	18 33	Altair	62 7.6	N 8 54.5						
	11	291 24.5	341 50.0	S 18 28.5	N 13	5 52	6 27	17 59	18 34	Antares	112 25.1	S 26 27.7						
	12	306 27.0	356 49.9	S 18 27.8	N 12	5 50	6 25	18 0	18 36	Arcturus	145 54.4	N 19 6.6						
	13	321 29.4	11 49.7	S 18 27.2	N 11	5 49	6 24	18 2	18 37	Atria	107 26.2	S 69 2.8						
	14	336 31.9	26 49.6	S 18 26.6	N 10	5 48	6 23	18 3	18 38	Avior	234 16.8	S 59 33.7						
	15	351 34.3	41 49.5	S 18 25.9	N 9	5 47	6 21	18 5	18 39	Bellatrix	278 30.6	N 6 21.5						
	16	6 36.8	56 49.4	S 18 25.3	N 8	5 45	6 20	18 6	18 41	Betelgeuse	270 59.8	N 7 24.3						
	17	21 39.3	71 49.2	S 18 24.6	N 7	5 44	6 19	18 7	18 42	Canopus	263 55.2	S 52 42.6						
	18	36 41.7	86 49.1	S 18 24.0	N 6	5 43	6 17	18 8	18 43	Capella	280 32.5	N 46 0.8						
	19	51 44.2	101 49.0	S 18 23.3	N 5	5 41	6 16	18 10	18 44	Deneb	49 31.1	N 45 20.2						
	20	66 46.7	116 48.9	S 18 22.7	N 4	5 40	6 15	18 11	18 46	Denebola	182 32.2	N 14 29.1						
	21	81 49.1	131 48.7	S 18 22.0	N 3	5 39	6 13	18 12	18 47	Dubhe	193 49.9	N 61 39.9						
22	96 51.6	146 48.6	S 18 21.4	N 2	5 38	6 12	18 14	18 48	Elnath	278 10.9	N 28 37.1							
23	111 54.1	161 48.5	S 18 20.7	N 1	5 36	6 11	18 15	18 50	Eltanin	90 46.0	N 51 29.2							
28	0	126 56.5	176 48.4	S 18 20.1	S 1	5 34	6 8	18 18	18 52	Enif	33 46.3	N 9 56.7						
	1	141 59.0	191 48.2	S 18 19.4	S 2	5 32	6 7	18 19	18 54	Formalhaut	15 23.2	S 29 32.6						
	2	157 1.5	206 48.1	S 18 18.8	S 3	5 31	6 5	18 20	18 55	Gacrux	171 59.2	S 57 11.6						
	3	172 3.9	221 48.0	S 18 18.1	S 4	5 29	6 4	18 22	18 56	Hadar	148 46.1	S 60 26.4						
	4	187 6.4	236 47.9	S 18 17.5	S 5	5 28	6 3	18 23	18 58	Hamal	327 59.5	N 23 32.0						
	5	202 8.8	251 47.7	S 18 16.8	S 6	5 27	6 1	18 24	18 59	Kaus Aust	83 42.7	S 34 22.4						
	6	217 11.3	266 47.6	S 18 16.2	S 7	5 25	6 0	18 26	19 1	Kochab	137 20.4	N 74 5.4						
	7	232 13.8	281 47.5	S 18 15.5	S 8	5 24	5 59	18 27	19 2	Markab	13 37.5	N 15 17.3						
	8	247 16.2	296 47.4	S 18 14.8	S 9	5 22	5 57	18 29	19 4	Menkent	148 6.0	S 36 26.3						
	9	262 18.7	311 47.3	S 18 14.2	S 10	5 21	5 56	18 30	19 5	Miaplacidu	221 38.2	S 69 46.9						
	10	277 21.2	326 47.1	S 18 13.5	S 11	5 19	5 55	18 31	19 6	Mirfak	308 38.5	N 49 54.9						
	11	292 23.6	341 47.0	S 18 12.9	S 12	5 18	5 53	18 32	19 8	Nunki	75 57.3	S 26 16.5						
	12	307 26.1	356 46.9	S 18 12.2	S 13	5 16	5 52	18 34	19 10	Peacock	53 18.2	S 56 41.0						
	13	322 28.6	11 46.8	S 18 11.6	S 14	5 14	5 50	18 35	19 11	Pollux	243 25.8	N 27 59.1						
	14	337 31.0	26 46.7	S 18 10.9	S 15	5 13	5 49	18 37	19 13	Procyon	244 58.1	N 5 11.1						
	15	352 33.5	41 46.6	S 18 10.2	S 20	5 4	5 42	18 44	19 21	Rasalhague	96 5.7	N 12 33.1						
	16	7 35.9	56 46.4	S 18 9.6	S 25	4 54	5 34	18 52	19 31	Regulus	207 42.0	N 11 53.4						
	17	22 38.4	71 46.3	S 18 8.9	S 30	4 43	5 25	19 1	19 42	Rigel	281 10.8	S 8 11.4						
	18	37 40.9	86 46.2	S 18 8.3	S 35	4 30	5 15	19 10	19 55	Rigel Kent	139 48.3	S 60 53.7						
	19	52 43.3	101 46.1	S 18 7.6	S 40	4 15	5 4	19 21	20 10	Schedar	349 39.4	N 56 37.4						
	20	67 45.8	116 46.0	S 18 6.9	S 45	3 56	4 51	19 34	20 29	Shaula	96 20.7	S 37 6.6						
	21	82 48.3	131 45.9	S 18 6.3	S 50	3 31	4 34	19 51	20 54	Sirius	258 32.3	S 16 44.2						
	22	97 50.7	146 45.7	S 18 5.6	S 55	2 55	4 13	20 11	21 29	Spica	158 30.0	S 11 14.4						
23	112 53.2	161 45.6	S 18 4.9	S 60	1 55	3 45	20 39	22 27	Vega	80 38.6	N 38 47.8							
		Sol			Luna													
Día	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase									
	m	s		h	m													
27	12	34	0.6	12	13	6.8	47											
28	12	46	0.6	12	13	7.9	58											



Tabla G. Jueves 29 de enero – viernes 30 de enero de 2015.


Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
		° /	° /	° /	°	h m	h m	h m	h m	h m	h m	° /	° /	° /	
29	0	127 55.7	176 45.5	S 18 4.3	N 60	7 5	8 19	16 8	17 22	Achernar	335 26.2	S 57 10.0			
	1	142 58.1	191 45.4	S 18 3.6	N 55	6 52	7 55	16 32	17 35	Acrux	173 7.5	S 63 10.7			
	2	158 0.6	206 45.3	S 18 2.9	N 50	6 42	7 37	16 50	17 45	Adhara	255 11.3	S 28 59.9			
	3	173 3.1	221 45.2	S 18 2.3	N 45	6 33	7 23	17 4	17 54	Aldebaran	290 47.9	N 16 32.2			
	4	188 5.5	236 45.1	S 18 1.6	N 40	6 26	7 11	17 16	18 1	Alioth	166 19.6	N 55 52.4			
	5	203 8.0	251 44.9	S 18 0.9	N 35	6 19	7 1	17 26	18 8	Alkaid	152 58.0	N 49 14.0			
	6	218 10.4	266 44.8	S 18 0.3	N 30	6 12	6 52	17 35	18 15	Alnair	27 42.9	S 46 53.3			
	7	233 12.9	281 44.7	S 17 59.6	N 25	6 6	6 44	17 43	18 21	Alnilam	275 45.0	S 1 11.8			
	8	248 15.4	296 44.6	S 17 58.9	N 20	6 0	6 36	17 50	18 27	Alphard	217 54.6	S 8 43.7			
	9	263 17.8	311 44.5	S 17 58.3	N 15	5 54	6 29	17 57	18 33	Alpheratz	357 42.5	N 29 10.5			
	10	278 20.3	326 44.4	S 17 57.6	N 14	5 53	6 28	17 59	18 34	Altair	62 7.6	N 8 54.5			
	11	293 22.8	341 44.3	S 17 56.9	N 13	5 51	6 27	18 0	18 35	Antares	112 25.0	S 26 27.7			
	12	308 25.2	356 44.2	S 17 56.3	N 12	5 50	6 25	18 1	18 36	Arcturus	145 54.4	N 19 6.6			
	13	323 27.7	11 44.1	S 17 55.6	N 11	5 49	6 24	18 3	18 38	Atria	107 26.1	S 69 2.8			
	14	338 30.2	26 43.9	S 17 54.9	N 10	5 48	6 23	18 4	18 39	Avior	234 16.8	S 59 33.7			
	15	353 32.6	41 43.8	S 17 54.2	N 9	5 47	6 21	18 5	18 40	Bellatrix	278 30.6	N 6 21.5			
	16	8 35.1	56 43.7	S 17 53.6	N 8	5 45	6 20	18 7	18 41	Betelgeuse	270 59.8	N 7 24.3			
	17	23 37.6	71 43.6	S 17 52.9	N 7	5 44	6 19	18 8	18 42	Canopus	263 55.2	S 52 42.6			
	18	38 40.0	86 43.5	S 17 52.2	N 6	5 43	6 17	18 9	18 44	Capella	280 32.5	N 46 0.8			
	19	53 42.5	101 43.4	S 17 51.5	N 5	5 42	6 16	18 10	18 45	Deneb	49 31.1	N 45 20.2			
	20	68 44.9	116 43.3	S 17 50.9	N 4	5 40	6 15	18 12	18 46	Denebola	182 32.2	N 14 29.1			
	21	83 47.4	131 43.2	S 17 50.2	N 3	5 39	6 14	18 13	18 47	Dubhe	193 49.9	N 61 39.9			
	22	98 49.9	146 43.1	S 17 49.5	N 2	5 38	6 12	18 14	18 49	Elnath	278 10.9	N 28 37.1			
23	113 52.3	161 43.0	S 17 48.8	N 1	5 37	6 11	18 15	18 50	Eltanin	90 46.0	N 51 29.2				
30	0	128 54.8	176 42.9	S 17 48.2	S 1	5 34	6 8	18 18	18 52	Enif	33 46.3	N 9 56.7			
	1	143 57.3	191 42.8	S 17 47.5	S 2	5 33	6 7	18 19	18 54	Formalhaut	15 23.2	S 29 32.6			
	2	158 59.7	206 42.7	S 17 46.8	S 3	5 31	6 6	18 21	18 55	Gacrux	171 59.2	S 57 11.6			
	3	174 2.2	221 42.6	S 17 46.1	S 4	5 30	6 5	18 22	18 56	Hadar	148 46.1	S 60 26.4			
	4	189 4.7	236 42.5	S 17 45.4	S 5	5 29	6 3	18 23	18 58	Hamal	327 59.5	N 23 32.0			
	5	204 7.1	251 42.4	S 17 44.8	S 6	5 27	6 2	18 24	18 59	Kaus Aust	83 42.6	S 34 22.4			
	6	219 9.6	266 42.2	S 17 44.1	S 7	5 26	6 1	18 26	19 0	Kochab	137 20.3	N 74 5.4			
	7	234 12.0	281 42.1	S 17 43.4	S 8	5 25	5 59	18 27	19 2	Markab	13 37.5	N 15 17.3			
	8	249 14.5	296 42.0	S 17 42.7	S 9	5 23	5 58	18 28	19 3	Menkent	148 6.0	S 36 26.3			
	9	264 17.0	311 41.9	S 17 42.0	S 10	5 22	5 57	18 30	19 5	Miaplacidu	221 38.2	S 69 46.9			
	10	279 19.4	326 41.8	S 17 41.3	S 11	5 20	5 55	18 31	19 6	Mirfak	308 38.6	N 49 54.9			
	11	294 21.9	341 41.7	S 17 40.7	S 12	5 19	5 54	18 32	19 8	Nunki	75 57.3	S 26 16.5			
	12	309 24.4	356 41.6	S 17 40.0	S 13	5 17	5 53	18 34	19 9	Peacock	53 18.1	S 56 41.0			
	13	324 26.8	11 41.5	S 17 39.3	S 14	5 16	5 51	18 35	19 11	Pollux	243 25.8	N 27 59.1			
	14	339 29.3	26 41.4	S 17 38.6	S 15	5 14	5 50	18 36	19 12	Procyon	244 58.1	N 5 11.1			
	15	354 31.8	41 41.3	S 17 37.9	S 20	5 5	5 43	18 43	19 21	Rasalhague	96 5.7	N 12 33.1			
	16	9 34.2	56 41.2	S 17 37.2	S 25	4 56	5 35	18 51	19 30	Regulus	207 42.0	N 11 53.4			
	17	24 36.7	71 41.1	S 17 36.5	S 30	4 45	5 27	18 59	19 41	Rigel	281 10.8	S 8 11.4			
	18	39 39.2	86 41.0	S 17 35.9	S 35	4 33	5 17	19 9	19 53	Rigel Kent	139 48.2	S 60 53.7			
	19	54 41.6	101 40.9	S 17 35.2	S 40	4 18	5 6	19 20	20 8	Schedar	349 39.4	N 56 37.4			
	20	69 44.1	116 40.8	S 17 34.5	S 45	3 59	4 53	19 32	20 26	Shaula	96 20.7	S 37 6.6			
	21	84 46.5	131 40.7	S 17 33.8	S 50	3 35	4 38	19 48	20 50	Sirius	258 32.3	S 16 44.2			
	22	99 49.0	146 40.6	S 17 33.1	S 55	3 1	4 18	20 8	21 24	Spica	158 29.9	S 11 14.4			
23	114 51.5	161 40.5	S 17 32.4	S 60	2 5	3 50	20 35	22 18	Vega	80 38.6	N 38 47.8				
Día		Sol			Luna										
		Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase					
		m s	m s		h m										
29		12 58	13 3	0.6	12 13		8.9	68							
30		13 8	13 13	0.7	12 13		9.9	77							

Tabla G. Sábado 31 de enero – domingo 1 de febrero de 2015.


Día	TU	Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		Aries	Sol							Nombre	SHA	Dec.
		GHA	GHA	Dec.		h m	h m	h m	h m		° / ' / "	° / ' / "
31	h				°							
	0	129 53.9	176 40.4	S 17 31.7	N 60	7 1	8 15	16 13	17 27	Achernar	335 26.2	S 57 10.0
	1	144 56.4	191 40.3	S 17 31.0	N 55	6 49	7 52	16 36	17 38	Acrux	173 7.5	S 63 10.8
	2	159 58.9	206 40.3	S 17 30.3	N 50	6 40	7 34	16 53	17 48	Adhara	255 11.3	S 28 59.9
	3	175 1.3	221 40.2	S 17 29.6	N 45	6 31	7 20	17 7	17 56	Aldebaran	290 47.9	N 16 32.2
	4	190 3.8	236 40.1	S 17 29.0	N 40	6 24	7 9	17 19	18 4	Alioth	166 19.6	N 55 52.4
	5	205 6.3	251 40.0	S 17 28.3	N 35	6 17	6 59	17 28	18 10	Alkaid	152 57.9	N 49 14.0
	6	220 8.7	266 39.9	S 17 27.6	N 30	6 11	6 51	17 37	18 16	Alnair	27 42.9	S 46 53.3
	7	235 11.2	281 39.8	S 17 26.9	N 25	6 5	6 43	17 44	18 22	Alnilam	275 45.0	S 1 11.8
	8	250 13.7	296 39.7	S 17 26.2	N 20	5 59	6 36	17 52	18 28	Alphard	217 54.6	S 8 43.7
	9	265 16.1	311 39.6	S 17 25.5	N 15	5 54	6 29	17 58	18 34	Alpheratz	357 42.5	N 29 10.5
	10	280 18.6	326 39.5	S 17 24.8	N 14	5 52	6 28	18 0	18 35	Altair	62 7.6	N 8 54.5
	11	295 21.0	341 39.4	S 17 24.1	N 13	5 51	6 26	18 1	18 36	Antares	112 25.0	S 26 27.7
	12	310 23.5	356 39.3	S 17 23.4	N 12	5 50	6 25	18 2	18 37	Arcturus	145 54.4	N 19 6.6
	13	325 26.0	11 39.2	S 17 22.7	N 11	5 49	6 24	18 3	18 38	Atria	107 26.1	S 69 2.8
	14	340 28.4	26 39.1	S 17 22.0	N 10	5 48	6 23	18 5	18 39	Avior	234 16.8	S 59 33.7
	15	355 30.9	41 39.0	S 17 21.3	N 9	5 47	6 21	18 6	18 40	Bellatrix	278 30.6	N 6 21.5
	16	10 33.4	56 38.9	S 17 20.6	N 8	5 45	6 20	18 7	18 42	Betelgeuse	270 59.8	N 7 24.3
	17	25 35.8	71 38.9	S 17 19.9	N 7	5 44	6 19	18 8	18 43	Canopus	263 55.2	S 52 42.6
	18	40 38.3	86 38.8	S 17 19.2	N 6	5 43	6 18	18 10	18 44	Capella	280 32.5	N 46 0.8
	19	55 40.8	101 38.7	S 17 18.5	N 5	5 42	6 16	18 11	18 45	Deneb	49 31.1	N 45 20.2
	20	70 43.2	116 38.6	S 17 17.8	N 4	5 41	6 15	18 12	18 46	Denebola	182 32.2	N 14 29.1
	21	85 45.7	131 38.5	S 17 17.1	N 3	5 40	6 14	18 13	18 48	Dubhe	193 49.8	N 61 39.9
22	100 48.1	146 38.4	S 17 16.4	N 2	5 38	6 13	18 15	18 49	Elnath	278 10.9	N 28 37.1	
23	115 50.6	161 38.3	S 17 15.7	N 1	5 37	6 11	18 16	18 50	Eltanin	90 46.0	N 51 29.2	
				0	5 36	6 10	18 17	18 51				
	0	130 53.1	176 38.2	S 17 15.0	S 1	5 35	6 9	18 18	18 52	Enif	33 46.3	N 9 56.7
	1	145 55.5	191 38.1	S 17 14.3	S 2	5 33	6 8	18 19	18 54	Formalhaut	15 23.2	S 29 32.6
	2	160 58.0	206 38.0	S 17 13.6	S 3	5 32	6 6	18 21	18 55	Gacrux	171 59.2	S 57 11.6
	3	176 0.5	221 38.0	S 17 12.9	S 4	5 31	6 5	18 22	18 56	Hadar	148 46.0	S 60 26.4
	4	191 2.9	236 37.9	S 17 12.2	S 5	5 29	6 4	18 23	18 58	Hamal	327 59.5	N 23 32.0
	5	206 5.4	251 37.8	S 17 11.5	S 6	5 28	6 3	18 24	18 59	Kaus Aust	83 42.6	S 34 22.4
	6	221 7.9	266 37.7	S 17 10.7	S 7	5 27	6 1	18 26	19 0	Kochab	137 20.3	N 74 5.4
	7	236 10.3	281 37.6	S 17 10.0	S 8	5 25	6 0	18 27	19 2	Markab	13 37.5	N 15 17.2
	8	251 12.8	296 37.5	S 17 9.3	S 9	5 24	5 59	18 28	19 3	Menkent	148 6.0	S 36 26.3
	9	266 15.3	311 37.4	S 17 8.6	S 10	5 22	5 58	18 29	19 4	Miaplacidu	221 38.2	S 69 46.9
	10	281 17.7	326 37.4	S 17 7.9	S 11	5 21	5 56	18 31	19 6	Mirfak	308 38.6	N 49 54.9
	11	296 20.2	341 37.3	S 17 7.2	S 12	5 20	5 55	18 32	19 7	Nunki	75 57.3	S 26 16.5
	12	311 22.6	356 37.2	S 17 6.5	S 13	5 18	5 54	18 33	19 9	Peacock	53 18.1	S 56 41.0
	13	326 25.1	11 37.1	S 17 5.8	S 14	5 17	5 52	18 35	19 10	Pollux	243 25.8	N 27 59.1
	14	341 27.6	26 37.0	S 17 5.1	S 15	5 15	5 51	18 36	19 12	Procyon	244 58.1	N 5 11.1
	15	356 30.0	41 36.9	S 17 4.4	S 20	5 7	5 44	18 43	19 20	Rasalhague	96 5.7	N 12 33.1
	16	11 32.5	56 36.9	S 17 3.6	S 25	4 58	5 37	18 50	19 29	Regulus	207 42.0	N 11 53.4
	17	26 35.0	71 36.8	S 17 2.9	S 30	4 47	5 28	18 58	19 39	Rigel	281 10.8	S 8 11.4
	18	41 37.4	86 36.7	S 17 2.2	S 35	4 35	5 19	19 7	19 51	Rigel Kent	139 48.2	S 60 53.7
	19	56 39.9	101 36.6	S 17 1.5	S 40	4 20	5 9	19 18	20 6	Schedar	349 39.4	N 56 37.4
	20	71 42.4	116 36.5	S 17 0.8	S 45	4 2	4 56	19 30	20 24	Shaula	96 20.6	S 37 6.6
	21	86 44.8	131 36.4	S 17 0.1	S 50	3 39	4 41	19 45	20 47	Sirius	258 32.3	S 16 44.2
	22	101 47.3	146 36.4	S 16 59.4	S 55	3 7	4 22	20 4	21 18	Spica	158 29.9	S 11 14.4
	23	116 49.8	161 36.3	S 16 58.6	S 60	2 14	3 56	20 30	22 9	Vega	80 38.6	N 38 47.8
		Sol				Luna						
Día		Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día	Porcentaje de iluminación		Fase			
		m s	m s		h m							
31		13 18	13 22	0.7	12 13	10.9	85					
1		13 27	13 31	0.7	12 14	11.9	91					

Tabla G. Lunes 2 de febrero – martes 3 de febrero de 2015.

Día	TU	Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		Aries	Sol							Nombre	SHA	Dec.
		GHA	GHA	Dec.		h m	h m	h m	h m		° / ' / "	° / ' / "
2	h	° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m		° / ' / "	° / ' / "
	0	131 52.2	176 36.2	S 16 57.9	N 60	6 57	8 10	16 18	17 31	Achernar	335 26.3	S 57 10.0
	1	146 54.7	191 36.1	S 16 57.2	N 55	6 46	7 48	16 40	17 42	Acrux	173 7.5	S 63 10.8
	2	161 57.1	206 36.1	S 16 56.5	N 50	6 37	7 31	16 57	17 51	Adhara	255 11.3	S 28 59.9
	3	176 59.6	221 36.0	S 16 55.8	N 45	6 29	7 18	17 10	17 59	Aldebaran	290 47.9	N 16 32.2
	4	192 2.1	236 35.9	S 16 55.1	N 40	6 22	7 7	17 21	18 6	Alioth	166 19.6	N 55 52.4
	5	207 4.5	251 35.8	S 16 54.3	N 35	6 16	6 58	17 30	18 12	Alkaid	152 57.9	N 49 14.0
	6	222 7.0	266 35.7	S 16 53.6	N 30	6 10	6 49	17 38	18 18	Alnair	27 42.9	S 46 53.2
	7	237 9.5	281 35.7	S 16 52.9	N 25	6 4	6 42	17 46	18 23	Alnilam	275 45.0	S 1 11.8
	8	252 11.9	296 35.6	S 16 52.2	N 20	5 59	6 35	17 53	18 29	Alphard	217 54.6	S 8 43.7
	9	267 14.4	311 35.5	S 16 51.5	N 15	5 53	6 29	17 59	18 34	Alpheratz	357 42.5	N 29 10.5
	10	282 16.9	326 35.4	S 16 50.7	N 14	5 52	6 27	18 0	18 35	Altair	62 7.6	N 8 54.5
	11	297 19.3	341 35.4	S 16 50.0	N 13	5 51	6 26	18 2	18 37	Antares	112 25.0	S 26 27.7
	12	312 21.8	356 35.3	S 16 49.3	N 12	5 50	6 25	18 3	18 38	Arcturus	145 54.4	N 19 6.6
	13	327 24.3	11 35.2	S 16 48.6	N 11	5 49	6 24	18 4	18 39	Atria	107 26.1	S 69 2.8
	14	342 26.7	26 35.1	S 16 47.8	N 10	5 48	6 22	18 5	18 40	Avior	234 16.8	S 59 33.7
	15	357 29.2	41 35.1	S 16 47.1	N 9	5 47	6 21	18 7	18 41	Bellatrix	278 30.6	N 6 21.5
	16	12 31.6	56 35.0	S 16 46.4	N 8	5 46	6 20	18 8	18 42	Betelgeuse	270 59.8	N 7 24.3
	17	27 34.1	71 34.9	S 16 45.7	N 7	5 44	6 19	18 9	18 43	Canopus	263 55.2	S 52 42.6
	18	42 36.6	86 34.8	S 16 44.9	N 6	5 43	6 18	18 10	18 44	Capella	280 32.5	N 46 0.8
	19	57 39.0	101 34.8	S 16 44.2	N 5	5 42	6 16	18 11	18 46	Deneb	49 31.1	N 45 20.2
	20	72 41.5	116 34.7	S 16 43.5	N 4	5 41	6 15	18 12	18 47	Denebola	182 32.2	N 14 29.1
	21	87 44.0	131 34.6	S 16 42.8	N 3	5 40	6 14	18 14	18 48	Dubhe	193 49.8	N 61 39.9
22	102 46.4	146 34.5	S 16 42.0	N 2	5 39	6 13	18 15	18 49	Elnath	278 10.9	N 28 37.1	
23	117 48.9	161 34.5	S 16 41.3	N 1	5 37	6 12	18 16	18 50	Eltanin	90 46.0	N 51 29.2	
				0	5 36	6 10	18 17	18 51				
3	0	132 51.4	176 34.4	S 16 40.6	S 1	5 35	6 9	18 18	18 53	Enif	33 46.3	N 9 56.7
	1	147 53.8	191 34.3	S 16 39.9	S 2	5 34	6 8	18 20	18 54	Formalhaut	15 23.2	S 29 32.6
	2	162 56.3	206 34.3	S 16 39.1	S 3	5 32	6 7	18 21	18 55	Gacrux	171 59.2	S 57 11.6
	3	177 58.7	221 34.2	S 16 38.4	S 4	5 31	6 6	18 22	18 56	Hadara	148 46.0	S 60 26.4
	4	193 1.2	236 34.1	S 16 37.7	S 5	5 30	6 4	18 23	18 58	Hamal	327 59.5	N 23 32.0
	5	208 3.7	251 34.0	S 16 36.9	S 6	5 29	6 3	18 24	18 59	Kaus Aust	83 42.6	S 34 22.4
	6	223 6.1	266 34.0	S 16 36.2	S 7	5 27	6 2	18 26	19 0	Kochab	137 20.2	N 74 5.4
	7	238 8.6	281 33.9	S 16 35.5	S 8	5 26	6 1	18 27	19 1	Markab	13 37.5	N 15 17.2
	8	253 11.1	296 33.8	S 16 34.7	S 9	5 24	5 59	18 28	19 3	Menkent	148 5.9	S 36 26.3
	9	268 13.5	311 33.8	S 16 34.0	S 10	5 23	5 58	18 29	19 4	Miaplacidu	221 38.2	S 69 46.9
	10	283 16.0	326 33.7	S 16 33.3	S 11	5 22	5 57	18 30	19 5	Mirfak	308 38.6	N 49 54.9
	11	298 18.5	341 33.6	S 16 32.5	S 12	5 20	5 56	18 32	19 7	Nunki	75 57.2	S 26 16.5
	12	313 20.9	356 33.6	S 16 31.8	S 13	5 19	5 54	18 33	19 8	Peacock	53 18.1	S 56 41.0
	13	328 23.4	11 33.5	S 16 31.1	S 14	5 18	5 53	18 34	19 10	Pollux	243 25.8	N 27 59.1
	14	343 25.9	26 33.4	S 16 30.3	S 15	5 16	5 52	18 35	19 11	Procyon	244 58.1	N 5 11.1
	15	358 28.3	41 33.4	S 16 29.6	S 20	5 8	5 45	18 42	19 19	Rasalhague	96 5.7	N 12 33.1
	16	13 30.8	56 33.3	S 16 28.9	S 25	4 59	5 38	18 49	19 28	Regulus	207 41.9	N 11 53.4
	17	28 33.2	71 33.2	S 16 28.1	S 30	4 49	5 30	18 57	19 38	Rigel	281 10.8	S 8 11.4
	18	43 35.7	86 33.2	S 16 27.4	S 35	4 37	5 21	19 6	19 50	Rigel Kent	139 48.2	S 60 53.7
	19	58 38.2	101 33.1	S 16 26.6	S 40	4 23	5 11	19 16	20 3	Schedar	349 39.4	N 56 37.4
	20	73 40.6	116 33.0	S 16 25.9	S 45	4 6	4 59	19 27	20 21	Shaula	96 20.6	S 37 6.6
	21	88 43.1	131 33.0	S 16 25.2	S 50	3 43	4 45	19 42	20 43	Sirius	258 32.3	S 16 44.3
	22	103 45.6	146 32.9	S 16 24.4	S 55	3 12	4 26	20 0	21 13	Spica	158 29.9	S 11 14.4
23	118 48.0	161 32.9	S 16 23.7	S 60	2 23	4 1	20 25	22 1	Vega	80 38.6	N 38 47.8	
Día	Sol				Luna							
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día		Porcentaje de iluminación		Fase			
	m s	m s		h m								
2	13 35	13 39	0.7	12 14		12.9		96				
3	13 42	13 45	0.7	12 14		13.8		99				

Tabla G. Miércoles 4 de febrero – jueves 5 de febrero de 2015.


Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
4	h	° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m	h m	h m	h m	° / ' / "	° / ' / "	° / ' / "
	0	133 50.5	176 32.8	S 16 22.9	N 60	6 53	8 5	16 24	17 36	Achernar	335 26.3	S 57 10.0			
	1	148 53.0	191 32.7	S 16 22.2	N 55	6 43	7 44	16 45	17 46	Acruz	173 7.4	S 63 10.8			
	2	163 55.4	206 32.7	S 16 21.5	N 50	6 34	7 28	17 0	17 54	Adhara	255 11.3	S 28 59.9			
	3	178 57.9	221 32.6	S 16 20.7	N 45	6 27	7 16	17 13	18 2	Aldebaran	290 47.9	N 16 32.2			
	4	194 0.4	236 32.5	S 16 20.0	N 40	6 20	7 5	17 23	18 8	Alioth	166 19.6	N 55 52.4			
	5	209 2.8	251 32.5	S 16 19.2	N 35	6 14	6 56	17 32	18 14	Alkaid	152 57.9	N 49 14.0			
	6	224 5.3	266 32.4	S 16 18.5	N 30	6 9	6 48	17 40	18 19	Alnair	27 42.9	S 46 53.2			
	7	239 7.7	281 32.4	S 16 17.8	N 25	6 3	6 41	17 47	18 25	Alnilam	275 45.0	S 1 11.8			
	8	254 10.2	296 32.3	S 16 17.0	N 20	5 58	6 34	17 54	18 30	Alphard	217 54.6	S 8 43.7			
	9	269 12.7	311 32.2	S 16 16.3	N 15	5 53	6 28	18 0	18 35	Alpheratz	357 42.6	N 29 10.5			
	10	284 15.1	326 32.2	S 16 15.5	N 14	5 52	6 27	18 1	18 36	Altair	62 7.6	N 8 54.5			
	11	299 17.6	341 32.1	S 16 14.8	N 13	5 51	6 26	18 2	18 37	Antares	112 25.0	S 26 27.7			
	12	314 20.1	356 32.1	S 16 14.0	N 12	5 50	6 24	18 4	18 38	Arcturus	145 54.4	N 19 6.6			
	13	329 22.5	11 32.0	S 16 13.3	N 11	5 49	6 23	18 5	18 39	Atria	107 26.0	S 69 2.8			
	14	344 25.0	26 32.0	S 16 12.5	N 10	5 48	6 22	18 6	18 40	Avior	234 16.8	S 59 33.7			
	15	359 27.5	41 31.9	S 16 11.8	N 9	5 47	6 21	18 7	18 41	Bellatrix	278 30.6	N 6 21.5			
	16	14 29.9	56 31.8	S 16 11.0	N 8	5 45	6 20	18 8	18 43	Betelgeuse	270 59.8	N 7 24.3			
	17	29 32.4	71 31.8	S 16 10.3	N 7	5 44	6 19	18 9	18 44	Canopus	263 55.2	S 52 42.6			
	18	44 34.8	86 31.7	S 16 9.5	N 6	5 43	6 17	18 11	18 45	Capella	280 32.5	N 46 0.8			
	19	59 37.3	101 31.7	S 16 8.8	N 5	5 42	6 16	18 12	18 46	Deneb	49 31.1	N 45 20.1			
	20	74 39.8	116 31.6	S 16 8.0	N 4	5 41	6 15	18 13	18 47	Denebola	182 32.1	N 14 29.1			
	21	89 42.2	131 31.6	S 16 7.3	N 3	5 40	6 14	18 14	18 48	Dubhe	193 49.8	N 61 39.9			
22	104 44.7	146 31.5	S 16 6.5	N 2	5 39	6 13	18 15	18 49	Elnath	278 10.9	N 28 37.1				
23	119 47.2	161 31.4	S 16 5.8	N 1	5 38	6 12	18 16	18 50	Eltanin	90 46.0	N 51 29.2				
5	0	134 49.6	176 31.4	S 16 5.0	S 1	5 35	6 9	18 19	18 53	Enif	33 46.3	N 9 56.7			
	1	149 52.1	191 31.3	S 16 4.3	S 2	5 34	6 8	18 20	18 54	Formalhaut	15 23.2	S 29 32.6			
	2	164 54.6	206 31.3	S 16 3.5	S 3	5 33	6 7	18 21	18 55	Gacrux	171 59.2	S 57 11.6			
	3	179 57.0	221 31.2	S 16 2.8	S 4	5 32	6 6	18 22	18 56	Hadar	148 46.0	S 60 26.4			
	4	194 59.5	236 31.2	S 16 2.0	S 5	5 30	6 5	18 23	18 57	Hamal	327 59.6	N 23 32.0			
	5	210 2.0	251 31.1	S 16 1.3	S 6	5 29	6 4	18 24	18 59	Kaus Aust	83 42.6	S 34 22.4			
	6	225 4.4	266 31.1	S 16 0.5	S 7	5 28	6 2	18 25	19 0	Kochab	137 20.2	N 74 5.4			
	7	240 6.9	281 31.0	S 15 59.7	S 8	5 27	6 1	18 27	19 1	Markab	13 37.5	N 15 17.2			
	8	255 9.3	296 31.0	S 15 59.0	S 9	5 25	6 0	18 28	19 3	Menkent	148 5.9	S 36 26.3			
	9	270 11.8	311 30.9	S 15 58.2	S 10	5 24	5 59	18 29	19 4	Miaplacidu	221 38.2	S 69 46.9			
	10	285 14.3	326 30.9	S 15 57.5	S 11	5 23	5 58	18 30	19 5	Mirfak	308 38.6	N 49 54.9			
	11	300 16.7	341 30.8	S 15 56.7	S 12	5 21	5 56	18 31	19 6	Nunki	75 57.2	S 26 16.5			
	12	315 19.2	356 30.8	S 15 56.0	S 13	5 20	5 55	18 33	19 8	Peacock	53 18.1	S 56 41.0			
	13	330 21.7	11 30.7	S 15 55.2	S 14	5 19	5 54	18 34	19 9	Pollux	243 25.8	N 27 59.1			
	14	345 24.1	26 30.7	S 15 54.4	S 15	5 17	5 53	18 35	19 11	Procyon	244 58.1	N 5 11.1			
	15	0 26.6	41 30.6	S 15 53.7	S 20	5 9	5 46	18 41	19 18	Rasalhague	96 5.6	N 12 33.1			
	16	15 29.1	56 30.6	S 15 52.9	S 25	5 1	5 39	18 48	19 27	Regulus	207 41.9	N 11 53.4			
	17	30 31.5	71 30.5	S 15 52.2	S 30	4 51	5 32	18 56	19 36	Rigel	281 10.8	S 8 11.4			
	18	45 34.0	86 30.5	S 15 51.4	S 35	4 40	5 23	19 4	19 48	Rigel Kent	139 48.1	S 60 53.7			
	19	60 36.5	101 30.4	S 15 50.6	S 40	4 26	5 14	19 14	20 1	Schedar	349 39.4	N 56 37.4			
	20	75 38.9	116 30.4	S 15 49.9	S 45	4 9	5 2	19 25	20 18	Shaula	96 20.6	S 37 6.6			
	21	90 41.4	131 30.3	S 15 49.1	S 50	3 48	4 48	19 39	20 39	Sirius	258 32.3	S 16 44.3			
	22	105 43.8	146 30.3	S 15 48.4	S 55	3 18	4 31	19 56	21 8	Spica	158 29.9	S 11 14.4			
23	120 46.3	161 30.2	S 15 47.6	S 60	2 32	4 7	20 19	21 53	Vega	80 38.6	N 38 47.8				
Día	Sol				Luna										
	Ecuación del tiempo (00 ^h)		Corr. <i>d</i>	Paso por el meridiano	Edad día	Porcentaje de iluminación		Fase							
4	m s	m s		h m											
5	13 48	13 51	0.7	12 14	14.7	99									
	13 54	13 57	0.7	12 14	15.6	98									

Tabla G. Viernes 6 de febrero – sábado 7 de febrero de 2015.

Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
6	h	° /	° /	° /	°	h m	h m	h m	h m	h m	h m	h m	° /	° /	° /
	0	135 48.8	176 30.2	S 15 46.8	N 60	6 49	8 0	16 29	17 40	Achernar	335 26.3	S 57 10.0			
	1	150 51.2	191 30.1	S 15 46.1	N 55	6 39	7 40	16 49	17 50	Acrux	173 7.4	S 63 10.8			
	2	165 53.7	206 30.1	S 15 45.3	N 50	6 31	7 25	17 4	17 57	Adhara	255 11.3	S 28 59.9			
	3	180 56.2	221 30.1	S 15 44.5	N 45	6 25	7 13	17 16	18 4	Aldebaran	290 47.9	N 16 32.2			
	4	195 58.6	236 30.0	S 15 43.8	N 40	6 18	7 3	17 26	18 10	Alioth	166 19.5	N 55 52.4			
	5	211 1.1	251 30.0	S 15 43.0	N 35	6 13	6 54	17 34	18 16	Alkaid	152 57.9	N 49 14.0			
	6	226 3.6	266 29.9	S 15 42.2	N 30	6 8	6 47	17 42	18 21	Alnair	27 42.9	S 46 53.2			
	7	241 6.0	281 29.9	S 15 41.5	N 25	6 2	6 40	17 49	18 26	Alnilam	275 45.0	S 1 11.9			
	8	256 8.5	296 29.8	S 15 40.7	N 20	5 57	6 33	17 55	18 31	Alphard	217 54.6	S 8 43.7			
	9	271 10.9	311 29.8	S 15 39.9	N 15	5 52	6 28	18 1	18 36	Alpheratz	357 42.6	N 29 10.5			
	10	286 13.4	326 29.8	S 15 39.2	N 14	5 51	6 26	18 2	18 37	Altair	62 7.6	N 8 54.5			
	11	301 15.9	341 29.7	S 15 38.4	N 13	5 50	6 25	18 3	18 38	Antares	112 25.0	S 26 27.7			
	12	316 18.3	356 29.7	S 15 37.6	N 12	5 49	6 24	18 4	18 39	Arcturus	145 54.4	N 19 6.6			
	13	331 20.8	11 29.6	S 15 36.9	N 11	5 48	6 23	18 5	18 40	Atria	107 26.0	S 69 2.8			
	14	346 23.3	26 29.6	S 15 36.1	N 10	5 47	6 22	18 7	18 41	Avior	234 16.8	S 59 33.8			
	15	1 25.7	41 29.5	S 15 35.3	N 9	5 46	6 21	18 8	18 42	Bellatrix	278 30.6	N 6 21.5			
	16	16 28.2	56 29.5	S 15 34.5	N 8	5 45	6 20	18 9	18 43	Betelgeuse	270 59.8	N 7 24.3			
	17	31 30.7	71 29.5	S 15 33.8	N 7	5 44	6 18	18 10	18 44	Canopus	263 55.2	S 52 42.6			
	18	46 33.1	86 29.4	S 15 33.0	N 6	5 43	6 17	18 11	18 45	Capella	280 32.5	N 46 0.8			
	19	61 35.6	101 29.4	S 15 32.2	N 5	5 42	6 16	18 12	18 46	Deneb	49 31.1	N 45 20.1			
	20	76 38.1	116 29.3	S 15 31.5	N 4	5 41	6 15	18 13	18 47	Denebola	182 32.1	N 14 29.1			
	21	91 40.5	131 29.3	S 15 30.7	N 3	5 40	6 14	18 14	18 48	Dubhe	193 49.8	N 61 39.9			
22	106 43.0	146 29.3	S 15 29.9	N 2	5 39	6 13	18 15	18 49	Elnath	278 11.0	N 28 37.1				
23	121 45.4	161 29.2	S 15 29.1	N 1	5 38	6 12	18 16	18 50	Eltanin	90 46.0	N 51 29.2				
7	0	136 47.9	176 29.2	S 15 28.4	S 1	5 36	6 10	18 19	18 53	Enif	33 46.3	N 9 56.7			
	1	151 50.4	191 29.2	S 15 27.6	S 2	5 34	6 9	18 20	18 54	Formalhaut	15 23.2	S 29 32.6			
	2	166 52.8	206 29.1	S 15 26.8	S 3	5 33	6 7	18 21	18 55	Gacrux	171 59.1	S 57 11.6			
	3	181 55.3	221 29.1	S 15 26.0	S 4	5 32	6 6	18 22	18 56	Hadar	148 45.9	S 60 26.4			
	4	196 57.8	236 29.0	S 15 25.3	S 5	5 31	6 5	18 23	18 57	Hamal	327 59.6	N 23 32.0			
	5	212 0.2	251 29.0	S 15 24.5	S 6	5 30	6 4	18 24	18 58	Kaus Aust	83 42.6	S 34 22.3			
	6	227 2.7	266 29.0	S 15 23.7	S 7	5 29	6 3	18 25	19 0	Kochab	137 20.2	N 74 5.4			
	7	242 5.2	281 28.9	S 15 22.9	S 8	5 27	6 2	18 26	19 1	Markab	13 37.5	N 15 17.2			
	8	257 7.6	296 28.9	S 15 22.1	S 9	5 26	6 0	18 28	19 2	Menkent	148 5.9	S 36 26.3			
	9	272 10.1	311 28.9	S 15 21.4	S 10	5 25	6 0	18 29	19 3	Miaplacidu	221 38.2	S 69 46.9			
	10	287 12.6	326 28.8	S 15 20.6	S 11	5 24	5 58	18 30	19 4	Mirfak	308 38.6	N 49 54.9			
	11	302 15.0	341 28.8	S 15 19.8	S 12	5 22	5 57	18 31	19 6	Nunki	75 57.2	S 26 16.5			
	12	317 17.5	356 28.8	S 15 19.0	S 13	5 21	5 56	18 32	19 7	Peacock	53 18.1	S 56 41.0			
	13	332 19.9	11 28.7	S 15 18.2	S 14	5 19	5 55	18 33	19 8	Pollux	243 25.8	N 27 59.1			
	14	347 22.4	26 28.7	S 15 17.5	S 15	5 18	5 54	18 34	19 10	Procyon	244 58.1	N 5 11.1			
	15	2 24.9	41 28.7	S 15 16.7	S 20	5 11	5 47	18 40	19 17	Rasalhague	96 5.6	N 12 33.0			
	16	17 27.3	56 28.6	S 15 15.9	S 25	5 2	5 41	18 47	19 25	Regulus	207 41.9	N 11 53.4			
	17	32 29.8	71 28.6	S 15 15.1	S 30	4 53	5 34	18 54	19 35	Rigel	281 10.8	S 8 11.4			
	18	47 32.3	86 28.6	S 15 14.3	S 35	4 42	5 25	19 2	19 46	Rigel Kent	139 48.1	S 60 53.7			
	19	62 34.7	101 28.5	S 15 13.6	S 40	4 29	5 16	19 11	19 58	Schedar	349 39.5	N 56 37.4			
	20	77 37.2	116 28.5	S 15 12.8	S 45	4 13	5 5	19 22	20 14	Shaula	96 20.6	S 37 6.6			
	21	92 39.7	131 28.5	S 15 12.0	S 50	3 52	4 52	19 35	20 35	Sirius	258 32.3	S 16 44.3			
	22	107 42.1	146 28.4	S 15 11.2	S 55	3 24	4 35	19 52	21 3	Spica	158 29.9	S 11 14.4			
23	122 44.6	161 28.4	S 15 10.4	S 60	2 40	4 12	20 14	21 45	Vega	80 38.6	N 38 47.8				
Día	Sol						Luna								
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase						
6	m s	m s		h m											
7	13 59	14 1	0.7	12 14		16.4	96								
	14 3	14 5	0.7	12 14		17.3	92								

Tabla G. Domingo 8 de febrero – lunes 9 de febrero de 2015.

Día	TU	Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		Aries	Sol							Nombre	SHA	Dec.
		GHA	GHA	Dec.		h m	h m	h m	h m		° / ' / "	° / ' / "
8	h				°							
	0	137 47.1	176 28.4	S 15 9.6	N 60	6 45	7 55	16 34	17 45	Achernar	335 26.3	S 57 10.0
	1	152 49.5	191 28.4	S 15 8.8	N 55	6 36	7 36	16 53	17 53	Acrux	173 7.4	S 63 10.8
	2	167 52.0	206 28.3	S 15 8.1	N 50	6 28	7 22	17 7	18 1	Adhara	255 11.3	S 28 59.9
	3	182 54.4	221 28.3	S 15 7.3	N 45	6 22	7 10	17 19	18 7	Aldebaran	290 47.9	N 16 32.2
	4	197 56.9	236 28.3	S 15 6.5	N 40	6 16	7 1	17 28	18 12	Alioth	166 19.5	N 55 52.4
	5	212 59.4	251 28.2	S 15 5.7	N 35	6 11	6 53	17 36	18 18	Alkaid	152 57.9	N 49 14.0
	6	228 1.8	266 28.2	S 15 4.9	N 30	6 6	6 45	17 43	18 23	Alnair	27 42.9	S 46 53.2
	7	243 4.3	281 28.2	S 15 4.1	N 25	6 1	6 39	17 50	18 27	Alnilam	275 45.0	S 11 11.9
	8	258 6.8	296 28.2	S 15 3.3	N 20	5 57	6 33	17 56	18 32	Alphard	217 54.6	S 8 43.7
	9	273 9.2	311 28.1	S 15 2.5	N 15	5 52	6 27	18 2	18 37	Alpheratz	357 42.6	N 29 10.5
	10	288 11.7	326 28.1	S 15 1.7	N 14	5 51	6 26	18 3	18 38	Altair	62 7.6	N 8 54.5
	11	303 14.2	341 28.1	S 15 1.0	N 13	5 50	6 25	18 4	18 38	Antares	112 25.0	S 26 27.7
	12	318 16.6	356 28.1	S 15 0.2	N 12	5 49	6 24	18 5	18 39	Arcturus	145 54.3	N 19 6.6
	13	333 19.1	11 28.0	S 14 59.4	N 11	5 48	6 22	18 6	18 40	Atria	107 26.0	S 69 2.8
	14	348 21.5	26 28.0	S 14 58.6	N 10	5 47	6 21	18 7	18 41	Avior	234 16.8	S 59 33.8
	15	3 24.0	41 28.0	S 14 57.8	N 9	5 46	6 20	18 8	18 42	Bellatrix	278 30.6	N 6 21.5
	16	18 26.5	56 28.0	S 14 57.0	N 8	5 45	6 19	18 9	18 43	Betelgeuse	270 59.9	N 7 24.3
	17	33 28.9	71 27.9	S 14 56.2	N 7	5 44	6 18	18 10	18 44	Canopus	263 55.2	S 52 42.7
	18	48 31.4	86 27.9	S 14 55.4	N 6	5 43	6 17	18 11	18 45	Capella	280 32.5	N 46 0.8
	19	63 33.9	101 27.9	S 14 54.6	N 5	5 42	6 16	18 12	18 46	Deneb	49 31.1	N 45 20.1
	20	78 36.3	116 27.9	S 14 53.8	N 4	5 41	6 15	18 13	18 47	Denebola	182 32.1	N 14 29.1
	21	93 38.8	131 27.8	S 14 53.0	N 3	5 40	6 14	18 14	18 48	Dubhe	193 49.8	N 61 39.9
22	108 41.3	146 27.8	S 14 52.2	N 2	5 39	6 13	18 15	18 49	Elnath	278 11.0	N 28 37.1	
23	123 43.7	161 27.8	S 14 51.4	N 1	5 38	6 12	18 17	18 50	Eltanin	90 45.9	N 51 29.2	
				0	5 37	6 11	18 18	18 51				
	0	138 46.2	176 27.8	S 14 50.6	S 1	5 36	6 10	18 19	18 52	Enif	33 46.3	N 9 56.7
	1	153 48.7	191 27.8	S 14 49.8	S 2	5 35	6 9	18 20	18 54	Formalhaut	15 23.2	S 29 32.6
	2	168 51.1	206 27.7	S 14 49.0	S 3	5 34	6 8	18 21	18 55	Gacrux	171 59.1	S 57 11.7
	3	183 53.6	221 27.7	S 14 48.2	S 4	5 33	6 7	18 22	18 56	Hadar	148 45.9	S 60 26.4
	4	198 56.0	236 27.7	S 14 47.4	S 5	5 31	6 6	18 23	18 57	Hamal	327 59.6	N 23 32.0
	5	213 58.5	251 27.7	S 14 46.6	S 6	5 30	6 4	18 24	18 58	Kaus Aust	83 42.6	S 34 22.3
	6	229 1.0	266 27.7	S 14 45.9	S 7	5 29	6 3	18 25	18 59	Kochab	137 20.1	N 74 5.4
	7	244 3.4	281 27.6	S 14 45.1	S 8	5 28	6 2	18 26	19 0	Markab	13 37.5	N 15 17.2
	8	259 5.9	296 27.6	S 14 44.3	S 9	5 27	6 1	18 27	19 2	Menkent	148 5.9	S 36 26.3
	9	274 8.4	311 27.6	S 14 43.5	S 10	5 26	6 0	18 28	19 3	Miaplacidu	221 38.2	S 69 47.0
	10	289 10.8	326 27.6	S 14 42.7	S 11	5 24	5 59	18 29	19 4	Mirfak	308 38.6	N 49 54.9
	11	304 13.3	341 27.6	S 14 41.8	S 12	5 23	5 58	18 30	19 5	Nunki	75 57.2	S 26 16.4
9	12	319 15.8	356 27.5	S 14 41.0	S 13	5 22	5 57	18 31	19 6	Peacock	53 18.1	S 56 41.0
	13	334 18.2	11 27.5	S 14 40.2	S 14	5 20	5 56	18 33	19 8	Pollux	243 25.8	N 27 59.1
	14	349 20.7	26 27.5	S 14 39.4	S 15	5 19	5 54	18 34	19 9	Procyon	244 58.1	N 5 11.1
	15	4 23.2	41 27.5	S 14 38.6	S 20	5 12	5 49	18 40	19 16	Rasalhague	96 5.6	N 12 33.0
	16	19 25.6	56 27.5	S 14 37.8	S 25	5 4	5 42	18 46	19 24	Regulus	207 41.9	N 11 53.4
	17	34 28.1	71 27.5	S 14 37.0	S 30	4 55	5 35	18 53	19 33	Rigel	281 10.8	S 8 11.4
	18	49 30.5	86 27.4	S 14 36.2	S 35	4 44	5 27	19 0	19 43	Rigel Kent	139 48.1	S 60 53.7
	19	64 33.0	101 27.4	S 14 35.4	S 40	4 32	5 19	19 9	19 56	Schedar	349 39.5	N 56 37.4
	20	79 35.5	116 27.4	S 14 34.6	S 45	4 16	5 8	19 19	20 11	Shaula	96 20.6	S 37 6.6
	21	94 37.9	131 27.4	S 14 33.8	S 50	3 56	4 55	19 32	20 31	Sirius	258 32.3	S 16 44.3
	22	109 40.4	146 27.4	S 14 33.0	S 55	3 29	4 39	19 48	20 57	Spica	158 29.9	S 11 14.4
	23	124 42.9	161 27.4	S 14 32.2	S 60	2 49	4 18	20 9	21 37	Vega	80 38.6	N 38 47.8
			Sol			Luna						
Día		Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase		
		m s	m s		h m							
8		14 6	14 7	0.8	12 14		18.1	86				
9		14 9	14 9	0.8	12 14		19.0	79				

Tabla G. Martes 10 de febrero – miércoles 11 de febrero de 2015.

Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
	h	° /	° /	° /	°	h m	h m	h m	h m	h m	h m	Nombre	° /	° /	
10	0	139 45.3	176 27.4	S 14 31.4	N 60	6 40	7 50	16 39	17 49	Achernar	335 26.3	S 57 9.9			
	1	154 47.8	191 27.3	S 14 30.6	N 55	6 32	7 32	16 57	17 57	Acrux	173 7.4	S 63 10.8			
	2	169 50.3	206 27.3	S 14 29.8	N 50	6 25	7 18	17 11	18 4	Adhara	255 11.3	S 28 59.9			
	3	184 52.7	221 27.3	S 14 29.0	N 45	6 20	7 8	17 22	18 10	Aldebaran	290 48.0	N 16 32.2			
	4	199 55.2	236 27.3	S 14 28.2	N 40	6 14	6 58	17 31	18 15	Alioth	166 19.5	N 55 52.4			
	5	214 57.6	251 27.3	S 14 27.4	N 35	6 9	6 51	17 38	18 19	Alkaid	152 57.8	N 49 14.0			
	6	230 0.1	266 27.3	S 14 26.5	N 30	6 5	6 44	17 45	18 24	Alnair	27 42.9	S 46 53.2			
	7	245 2.6	281 27.3	S 14 25.7	N 25	6 0	6 37	17 51	18 28	Alnilam	275 45.0	S 1 11.9			
	8	260 5.0	296 27.3	S 14 24.9	N 20	5 56	6 32	17 57	18 33	Alphard	217 54.6	S 8 43.7			
	9	275 7.5	311 27.3	S 14 24.1	N 15	5 51	6 26	18 2	18 37	Alpheratz	357 42.6	N 29 10.5			
	10	290 10.0	326 27.2	S 14 23.3	N 14	5 50	6 25	18 3	18 38	Altair	62 7.6	N 8 54.5			
	11	305 12.4	341 27.2	S 14 22.5	N 13	5 50	6 24	18 5	18 39	Antares	112 24.9	S 26 27.7			
	12	320 14.9	356 27.2	S 14 21.7	N 12	5 49	6 23	18 6	18 40	Arcturus	145 54.3	N 19 6.6			
	13	335 17.4	11 27.2	S 14 20.9	N 11	5 48	6 22	18 7	18 41	Atria	107 25.9	S 69 2.8			
	14	350 19.8	26 27.2	S 14 20.1	N 10	5 47	6 21	18 8	18 42	Avior	234 16.8	S 59 33.8			
	15	5 22.3	41 27.2	S 14 19.2	N 9	5 46	6 20	18 9	18 43	Bellatrix	278 30.6	N 6 21.5			
	16	20 24.8	56 27.2	S 14 18.4	N 8	5 45	6 19	18 10	18 44	Betelgeuse	270 59.9	N 7 24.3			
	17	35 27.2	71 27.2	S 14 17.6	N 7	5 44	6 18	18 11	18 45	Canopus	263 55.3	S 52 42.7			
	18	50 29.7	86 27.2	S 14 16.8	N 6	5 43	6 17	18 12	18 45	Capella	280 32.5	N 46 0.8			
	19	65 32.1	101 27.2	S 14 16.0	N 5	5 42	6 16	18 13	18 46	Deneb	49 31.1	N 45 20.1			
	20	80 34.6	116 27.2	S 14 15.2	N 4	5 41	6 15	18 14	18 47	Denebola	182 32.1	N 14 29.1			
	21	95 37.1	131 27.2	S 14 14.4	N 3	5 40	6 14	18 15	18 48	Dubhe	193 49.8	N 61 39.9			
	22	110 39.5	146 27.1	S 14 13.5	N 2	5 39	6 13	18 16	18 49	Elnath	278 11.0	N 28 37.1			
23	125 42.0	161 27.1	S 14 12.7	N 1	5 38	6 12	18 17	18 50	Eltanin	90 45.9	N 51 29.1				
				0	5 37	6 11	18 18	18 51							
11	0	140 44.5	176 27.1	S 14 11.9	S 1	5 36	6 10	18 19	18 52	Enif	33 46.3	N 9 56.7			
	1	155 46.9	191 27.1	S 14 11.1	S 2	5 35	6 9	18 20	18 53	Formalhaut	15 23.2	S 29 32.6			
	2	170 49.4	206 27.1	S 14 10.3	S 3	5 34	6 8	18 21	18 54	Gacrux	171 59.1	S 57 11.7			
	3	185 51.9	221 27.1	S 14 9.5	S 4	5 33	6 7	18 22	18 55	Hadar	148 45.9	S 60 26.4			
	4	200 54.3	236 27.1	S 14 8.6	S 5	5 32	6 6	18 23	18 57	Hamal	327 59.6	N 23 32.0			
	5	215 56.8	251 27.1	S 14 7.8	S 6	5 31	6 5	18 24	18 58	Kaus Aust	83 42.6	S 34 22.3			
	6	230 59.3	266 27.1	S 14 7.0	S 7	5 30	6 4	18 25	18 59	Kochab	137 20.1	N 74 5.4			
	7	246 1.7	281 27.1	S 14 6.2	S 8	5 28	6 3	18 26	19 0	Markab	13 37.5	N 15 17.2			
	8	261 4.2	296 27.1	S 14 5.4	S 9	5 27	6 2	18 27	19 1	Menkent	148 5.9	S 36 26.3			
	9	276 6.6	311 27.1	S 14 4.5	S 10	5 26	6 1	18 28	19 2	Miaplacidu	221 38.2	S 69 47.0			
	10	291 9.1	326 27.1	S 14 3.7	S 11	5 25	6 0	18 29	19 3	Mirfak	308 38.6	N 49 54.9			
	11	306 11.6	341 27.1	S 14 2.9	S 12	5 24	5 59	18 30	19 4	Nunki	75 57.2	S 26 16.4			
	12	321 14.0	356 27.1	S 14 2.1	S 13	5 23	5 57	18 31	19 6	Peacock	53 18.1	S 56 41.0			
	13	336 16.5	11 27.1	S 14 1.3	S 14	5 21	5 56	18 32	19 7	Pollux	243 25.8	N 27 59.1			
	14	351 19.0	26 27.1	S 14 0.4	S 15	5 20	5 55	18 33	19 8	Procyon	244 58.1	N 5 11.1			
	15	6 21.4	41 27.1	S 13 59.6	S 20	5 13	5 50	18 39	19 15	Rasalhague	96 5.6	N 12 33.0			
	16	21 23.9	56 27.1	S 13 58.8	S 25	5 5	5 44	18 45	19 22	Regulus	207 41.9	N 11 53.3			
	17	36 26.4	71 27.1	S 13 58.0	S 30	4 57	5 37	18 51	19 31	Rigel	281 10.8	S 8 11.4			
	18	51 28.8	86 27.1	S 13 57.1	S 35	4 47	5 29	18 58	19 41	Rigel Kent	139 48.1	S 60 53.7			
	19	66 31.3	101 27.1	S 13 56.3	S 40	4 34	5 21	19 7	19 53	Schedar	349 39.5	N 56 37.4			
	20	81 33.7	116 27.1	S 13 55.5	S 45	4 19	5 11	19 17	20 8	Shaula	96 20.6	S 37 6.6			
	21	96 36.2	131 27.1	S 13 54.7	S 50	4 0	4 59	19 28	20 27	Sirius	258 32.3	S 16 44.3			
	22	111 38.7	146 27.1	S 13 53.8	S 55	3 35	4 44	19 43	20 52	Spica	158 29.9	S 11 14.4			
23	126 41.1	161 27.1	S 13 53.0	S 60	2 56	4 23	20 3	21 29	Vega	80 38.5	N 38 47.8				
		Sol						Luna							
Día		Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase					
		m s	m s		h m										
10		14 10	14 11	0.8	12 14		19.8	70							
11		14 11	14 11	0.8	12 14		20.7	61							

Tabla G. Jueves 12 de febrero – viernes 13 de febrero de 2015.


Día	TU	Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		Aries	Sol							Nombre	SHA	Dec.
		GHA	GHA	Dec.		h m	h m	h m	h m		° / ' / "	° / ' / "
12	h	° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m	Nombre	° / ' / "	° / ' / "
	0	141 43.6	176 27.1	S 13 52.2	N 60	6 35	7 45	16 45	17 54	Achernar	335 26.3	S 57 9.9
	1	156 46.1	191 27.1	S 13 51.4	N 55	6 28	7 28	17 1	18 1	Acrux	173 7.4	S 63 10.8
	2	171 48.5	206 27.1	S 13 50.5	N 50	6 22	7 15	17 14	18 7	Adhara	255 11.3	S 29 00.0
	3	186 51.0	221 27.1	S 13 49.7	N 45	6 17	7 5	17 24	18 12	Aldebaran	290 48.0	N 16 32.2
	4	201 53.5	236 27.1	S 13 48.9	N 40	6 12	6 56	17 33	18 17	Alioth	166 19.5	N 55 52.4
	5	216 55.9	251 27.1	S 13 48.0	N 35	6 8	6 49	17 40	18 21	Alkaid	152 57.8	N 49 14.0
	6	231 58.4	266 27.1	S 13 47.2	N 30	6 3	6 42	17 47	18 25	Alnair	27 42.9	S 46 53.2
	7	247 0.9	281 27.1	S 13 46.4	N 25	5 59	6 36	17 53	18 30	Alnilam	275 45.0	S 1 11.9
	8	262 3.3	296 27.1	S 13 45.6	N 20	5 55	6 31	17 58	18 34	Alphard	217 54.6	S 8 43.7
	9	277 5.8	311 27.1	S 13 44.7	N 15	5 51	6 25	18 3	18 38	Alpheratz	357 42.6	N 29 10.5
	10	292 8.2	326 27.1	S 13 43.9	N 14	5 50	6 24	18 4	18 39	Altair	62 7.5	N 8 54.5
	11	307 10.7	341 27.1	S 13 43.1	N 13	5 49	6 23	18 5	18 40	Antares	112 24.9	S 26 27.7
	12	322 13.2	356 27.1	S 13 42.2	N 12	5 48	6 22	18 6	18 40	Arcturus	145 54.3	N 19 6.6
	13	337 15.6	11 27.2	S 13 41.4	N 11	5 47	6 21	18 7	18 41	Atria	107 25.9	S 69 2.8
	14	352 18.1	26 27.2	S 13 40.6	N 10	5 46	6 20	18 8	18 42	Avior	234 16.9	S 59 33.8
	15	7 20.6	41 27.2	S 13 39.7	N 9	5 45	6 19	18 9	18 43	Bellatrix	278 30.6	N 6 21.5
	16	22 23.0	56 27.2	S 13 38.9	N 8	5 45	6 19	18 10	18 44	Betelgeuse	270 59.9	N 7 24.3
	17	37 25.5	71 27.2	S 13 38.1	N 7	5 44	6 18	18 11	18 45	Canopus	263 55.3	S 52 42.7
	18	52 28.0	86 27.2	S 13 37.2	N 6	5 43	6 17	18 12	18 46	Capella	280 32.5	N 46 0.8
	19	67 30.4	101 27.2	S 13 36.4	N 5	5 42	6 16	18 13	18 47	Deneb	49 31.1	N 45 20.1
	20	82 32.9	116 27.2	S 13 35.6	N 4	5 41	6 15	18 14	18 47	Denebola	182 32.1	N 14 29.1
	21	97 35.4	131 27.2	S 13 34.7	N 3	5 40	6 14	18 15	18 48	Dubhe	193 49.8	N 61 39.9
22	112 37.8	146 27.2	S 13 33.9	N 2	5 39	6 13	18 16	18 49	Elnath	278 11.0	N 28 37.1	
23	127 40.3	161 27.2	S 13 33.1	N 1	5 38	6 12	18 17	18 50	Eltanin	90 45.9	N 51 29.1	
13	0	142 42.7	176 27.2	S 13 32.2	S 1	5 36	6 10	18 18	18 51	Enif	33 46.3	N 9 56.7
	1	157 45.2	191 27.3	S 13 31.4	S 2	5 35	6 9	18 19	18 52	Formalhaut	15 23.2	S 29 32.6
	2	172 47.7	206 27.3	S 13 30.6	S 3	5 34	6 8	18 20	18 53	Gacrux	171 59.1	S 57 11.7
	3	187 50.1	221 27.3	S 13 29.7	S 4	5 33	6 7	18 21	18 54	Hadar	148 45.9	S 60 26.4
	4	202 52.6	236 27.3	S 13 28.9	S 5	5 32	6 6	18 22	18 55	Hamal	327 59.6	N 23 32.0
	5	217 55.1	251 27.3	S 13 28.0	S 6	5 31	6 5	18 23	18 56	Kaus Aust	83 42.5	S 34 22.3
	6	232 57.5	266 27.3	S 13 27.2	S 7	5 30	6 4	18 24	18 57	Kochab	137 20.0	N 74 5.4
	7	248 00.0	281 27.3	S 13 26.4	S 8	5 29	6 3	18 25	18 58	Markab	13 37.5	N 15 17.2
	8	263 2.5	296 27.3	S 13 25.5	S 9	5 28	6 2	18 26	19 1	Menkent	148 5.9	S 36 26.3
	9	278 4.9	311 27.3	S 13 24.7	S 10	5 27	6 1	18 27	19 1	Miaplacidu	221 38.2	S 69 47.0
	10	293 7.4	326 27.4	S 13 23.9	S 11	5 26	6 0	18 28	19 3	Mirfak	308 38.6	N 49 54.9
	11	308 9.8	341 27.4	S 13 23.0	S 12	5 24	5 59	18 29	19 4	Nunki	75 57.2	S 26 16.4
	12	323 12.3	356 27.4	S 13 22.2	S 13	5 23	5 58	18 30	19 5	Peacock	53 18.1	S 56 40.9
	13	338 14.8	11 27.4	S 13 21.3	S 14	5 22	5 57	18 31	19 6	Pollux	243 25.8	N 27 59.1
	14	353 17.2	26 27.4	S 13 20.5	S 15	5 21	5 56	18 32	19 7	Procyon	244 58.1	N 5 11.1
	15	8 19.7	41 27.4	S 13 19.6	S 20	5 14	5 51	18 37	19 14	Rasalhague	96 5.6	N 12 33.0
	16	23 22.2	56 27.4	S 13 18.8	S 25	5 7	5 45	18 43	19 21	Regulus	207 41.9	N 11 53.3
	17	38 24.6	71 27.5	S 13 18.0	S 30	4 59	5 39	18 49	19 29	Rigel	281 10.8	S 8 11.4
	18	53 27.1	86 27.5	S 13 17.1	S 35	4 49	5 31	18 56	19 39	Rigel Kent	139 48.0	S 60 53.7
	19	68 29.6	101 27.5	S 13 16.3	S 40	4 37	5 23	19 4	19 50	Schedar	349 39.5	N 56 37.4
	20	83 32.0	116 27.5	S 13 15.4	S 45	4 23	5 14	19 14	20 4	Shaula	96 20.6	S 37 6.6
	21	98 34.5	131 27.5	S 13 14.6	S 50	4 5	5 2	19 25	20 22	Sirius	258 32.3	S 16 44.3
	22	113 37.0	146 27.5	S 13 13.7	S 55	3 40	4 48	19 39	20 46	Spica	158 29.8	S 11 14.4
23	128 39.4	161 27.6	S 13 12.9	S 60	3 4	4 29	19 58	21 21	Vega	80 38.5	N 38 47.8	
Día		Sol			Luna							
		Ecuación del tiempo		Corr. d	Paso por el meridiano	Edad día	Porcentaje de iluminación	Fase				
		(00 ^h)	(12 ^h)									
		m s	m s		h m							
12		14 11	14 11	0.8	12 14	21.7	51					
13		14 11	14 10	0.8	12 14	22.7	41					

Tabla G. Sábado 14 de febrero – domingo 15 de febrero de 2015.


Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
	h	° /	° /	° /	°	h m	h m	h m	h m	h m	h m		° /	° /	
14	0	143 41.9	176 27.6	S 13 12.1	N 60	6 31	7 39	16 50	17 59	Achernar	335 26.4	S 57 9.9			
	1	158 44.3	191 27.6	S 13 11.2	N 55	6 24	7 23	17 6	18 5	Acrux	173 7.3	S 63 10.8			
	2	173 46.8	206 27.6	S 13 10.4	N 50	6 19	7 11	17 18	18 10	Adhara	255 11.3	S 29 00.0			
	3	188 49.3	221 27.6	S 13 9.5	N 45	6 14	7 2	17 27	18 15	Aldebaran	290 48.0	N 16 32.2			
	4	203 51.7	236 27.6	S 13 8.7	N 40	6 10	6 54	17 35	18 19	Alioth	166 19.5	N 55 52.4			
	5	218 54.2	251 27.7	S 13 7.8	N 35	6 6	6 47	17 42	18 23	Alkaid	152 57.8	N 49 14.0			
	6	233 56.7	266 27.7	S 13 7.0	N 30	6 2	6 40	17 48	18 27	Alnair	27 42.9	S 46 53.2			
	7	248 59.1	281 27.7	S 13 6.1	N 25	5 58	6 35	17 54	18 31	Alnilam	275 45.0	S 1 11.9			
	8	264 1.6	296 27.7	S 13 5.3	N 20	5 54	6 29	17 59	18 35	Alphard	217 54.6	S 8 43.7			
	9	279 4.1	311 27.7	S 13 4.4	N 15	5 50	6 25	18 4	18 38	Alpheratz	357 42.6	N 29 10.5			
	10	294 6.5	326 27.8	S 13 3.6	N 14	5 49	6 24	18 5	18 39	Altair	62 7.5	N 8 54.5			
	11	309 9.0	341 27.8	S 13 2.7	N 13	5 48	6 23	18 6	18 40	Antares	112 24.9	S 26 27.7			
	12	324 11.5	356 27.8	S 13 1.9	N 12	5 48	6 22	18 7	18 41	Arcturus	145 54.3	N 19 6.6			
	13	339 13.9	11 27.8	S 13 1.0	N 11	5 47	6 21	18 8	18 42	Atria	107 25.8	S 69 2.8			
	14	354 16.4	26 27.8	S 13 0.2	N 10	5 46	6 20	18 8	18 42	Avior	234 16.9	S 59 33.8			
	15	9 18.8	41 27.9	S 12 59.3	N 9	5 45	6 19	18 9	18 43	Bellatrix	278 30.6	N 6 21.5			
	16	24 21.3	56 27.9	S 12 58.5	N 8	5 44	6 18	18 10	18 44	Betelgeuse	270 59.9	N 7 24.3			
	17	39 23.8	71 27.9	S 12 57.6	N 7	5 43	6 17	18 11	18 45	Canopus	263 55.3	S 52 42.7			
	18	54 26.2	86 27.9	S 12 56.8	N 6	5 43	6 16	18 12	18 46	Capella	280 32.6	N 46 0.8			
	19	69 28.7	101 28.0	S 12 55.9	N 5	5 42	6 15	18 13	18 47	Deneb	49 31.1	N 45 20.1			
	20	84 31.2	116 28.0	S 12 55.1	N 4	5 41	6 14	18 14	18 47	Denebola	182 32.1	N 14 29.1			
	21	99 33.6	131 28.0	S 12 54.2	N 3	5 40	6 14	18 15	18 48	Dubhe	193 49.7	N 61 39.9			
	22	114 36.1	146 28.0	S 12 53.4	N 2	5 39	6 13	18 16	18 49	Elnath	278 11.0	N 28 37.1			
23	129 38.6	161 28.1	S 12 52.5	N 1	5 38	6 12	18 17	18 50	Eltanin	90 45.9	N 51 29.1				
				0	5 37	6 11	18 17	18 51							
15	0	144 41.0	176 28.1	S 12 51.7	S 1	5 36	6 10	18 18	18 52	Enif	33 46.3	N 9 56.7			
	1	159 43.5	191 28.1	S 12 50.8	S 2	5 35	6 9	18 19	18 53	Formalhaut	15 23.2	S 29 32.5			
	2	174 46.0	206 28.1	S 12 50.0	S 3	5 34	6 8	18 20	18 54	Gacrux	171 59.1	S 57 11.7			
	3	189 48.4	221 28.2	S 12 49.1	S 4	5 33	6 7	18 21	18 55	Hadar	148 45.8	S 60 26.5			
	4	204 50.9	236 28.2	S 12 48.2	S 5	5 32	6 6	18 22	18 56	Hamal	327 59.6	N 23 32.0			
	5	219 53.3	251 28.2	S 12 47.4	S 6	5 31	6 5	18 23	18 57	Kaus Aust	83 42.5	S 34 22.3			
	6	234 55.8	266 28.2	S 12 46.5	S 7	5 30	6 4	18 24	18 58	Kochab	137 20.0	N 74 5.4			
	7	249 58.3	281 28.3	S 12 45.7	S 8	5 29	6 3	18 25	18 59	Markab	13 37.5	N 15 17.2			
	8	265 0.7	296 28.3	S 12 44.8	S 9	5 28	6 2	18 26	19 0	Menkent	148 5.8	S 36 26.4			
	9	280 3.2	311 28.3	S 12 44.0	S 10	5 27	6 2	18 27	19 1	Miaplacidu	221 38.2	S 69 47.0			
	10	295 5.7	326 28.4	S 12 43.1	S 11	5 26	6 1	18 27	19 2	Mirfak	308 38.7	N 49 54.9			
	11	310 8.1	341 28.4	S 12 42.2	S 12	5 25	6 0	18 28	19 3	Nunki	75 57.2	S 26 16.4			
	12	325 10.6	356 28.4	S 12 41.4	S 13	5 24	5 59	18 29	19 4	Peacock	53 18.1	S 56 40.9			
	13	340 13.1	11 28.4	S 12 40.5	S 14	5 23	5 58	18 30	19 5	Pollux	243 25.8	N 27 59.1			
	14	355 15.5	26 28.5	S 12 39.7	S 15	5 22	5 57	18 31	19 6	Procyon	244 58.1	N 5 11.1			
	15	10 18.0	41 28.5	S 12 38.8	S 20	5 15	5 52	18 36	19 12	Rasalhague	96 5.6	N 12 33.0			
	16	25 20.4	56 28.5	S 12 37.9	S 25	5 8	5 46	18 42	19 19	Regulus	207 41.9	N 11 53.3			
	17	40 22.9	71 28.6	S 12 37.1	S 30	5 0	5 40	18 48	19 27	Rigel	281 10.8	S 8 11.4			
	18	55 25.4	86 28.6	S 12 36.2	S 35	4 51	5 33	18 54	19 37	Rigel Kent	139 48.0	S 60 53.7			
	19	70 27.8	101 28.6	S 12 35.4	S 40	4 40	5 26	19 2	19 48	Schedar	349 39.5	N 56 37.4			
	20	85 30.3	116 28.6	S 12 34.5	S 45	4 26	5 17	19 11	20 1	Shaula	96 20.5	S 37 6.6			
	21	100 32.8	131 28.7	S 12 33.6	S 50	4 9	5 6	19 21	20 18	Sirius	258 32.3	S 16 44.3			
	22	115 35.2	146 28.7	S 12 32.8	S 55	3 45	4 52	19 35	20 41	Spica	158 29.8	S 11 14.4			
23	130 37.7	161 28.7	S 12 31.9	S 60	3 12	4 34	19 52	21 14	Vega	80 38.5	N 38 47.8				
		Sol						Luna							
Día	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase						
	m s	m s		h m											
14	14 9	14 8	0.8	12 14		23.7	31								
15	14 7	14 6	0.8	12 14		24.8	21								

Tabla G. Lunes 16 de febrero – martes 17 de febrero de 2015.


Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
16	h	° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m	h m	h m	h m	Nombre	° / ' / "	° / ' / "
	0	145 40.2	176 28.8	S 12 31.1	N 60	6 26	7 34	16 55	18 4	Achernar	335 26.4	S 57 9.9			
	1	160 42.6	191 28.8	S 12 30.2	N 55	6 20	7 19	17 10	18 9	Acrux	173 7.3	S 63 10.8			
	2	175 45.1	206 28.8	S 12 29.3	N 50	6 15	7 8	17 21	18 13	Adhara	255 11.3	S 29 00.0			
	3	190 47.6	221 28.9	S 12 28.5	N 45	6 11	6 59	17 30	18 17	Aldebaran	290 48.0	N 16 32.2			
	4	205 50.0	236 28.9	S 12 27.6	N 40	6 7	6 51	17 38	18 21	Alioth	166 19.4	N 55 52.4			
	5	220 52.5	251 28.9	S 12 26.7	N 35	6 4	6 44	17 44	18 25	Alkaid	152 57.8	N 49 14.0			
	6	235 54.9	266 29.0	S 12 25.9	N 30	6 0	6 39	17 50	18 28	Alnair	27 42.9	S 46 53.2			
	7	250 57.4	281 29.0	S 12 25.0	N 25	5 56	6 33	17 55	18 32	Alnilam	275 45.0	S 1 11.9			
	8	265 59.9	296 29.0	S 12 24.1	N 20	5 53	6 28	18 0	18 35	Alphard	217 54.6	S 8 43.7			
	9	281 2.3	311 29.1	S 12 23.3	N 15	5 49	6 24	18 4	18 39	Alpheratz	357 42.6	N 29 10.5			
	10	296 4.8	326 29.1	S 12 22.4	N 14	5 48	6 23	18 5	18 40	Altair	62 7.5	N 8 54.5			
	11	311 7.3	341 29.2	S 12 21.5	N 13	5 48	6 22	18 6	18 40	Antares	112 24.9	S 26 27.7			
	12	326 9.7	356 29.2	S 12 20.7	N 12	5 47	6 21	18 7	18 41	Arcturus	145 54.3	N 19 6.6			
	13	341 12.2	11 29.2	S 12 19.8	N 11	5 46	6 20	18 8	18 42	Atria	107 25.8	S 69 2.8			
	14	356 14.7	26 29.3	S 12 18.9	N 10	5 45	6 19	18 9	18 43	Avior	234 16.9	S 59 33.8			
	15	11 17.1	41 29.3	S 12 18.1	N 9	5 45	6 18	18 10	18 44	Bellatrix	278 30.6	N 6 21.5			
	16	26 19.6	56 29.3	S 12 17.2	N 8	5 44	6 18	18 11	18 44	Betelgeuse	270 59.9	N 7 24.3			
	17	41 22.1	71 29.4	S 12 16.3	N 7	5 43	6 17	18 11	18 45	Canopus	263 55.3	S 52 42.7			
	18	56 24.5	86 29.4	S 12 15.5	N 6	5 42	6 16	18 12	18 46	Capella	280 32.6	N 46 0.8			
	19	71 27.0	101 29.4	S 12 14.6	N 5	5 41	6 15	18 13	18 47	Deneb	49 31.1	N 45 20.1			
	20	86 29.4	116 29.5	S 12 13.7	N 4	5 41	6 14	18 14	18 47	Denebola	182 32.1	N 14 29.1			
	21	101 31.9	131 29.5	S 12 12.9	N 3	5 40	6 13	18 15	18 48	Dubhe	193 49.7	N 61 39.9			
22	116 34.4	146 29.6	S 12 12.0	N 2	5 39	6 12	18 16	18 49	Elnath	278 11.0	N 28 37.1				
23	131 36.8	161 29.6	S 12 11.1	N 1	5 38	6 12	18 16	18 50	Eltanin	90 45.9	N 51 29.1				
17	0	146 39.3	176 29.6	S 12 10.3	S 1	5 37	6 11	18 17	18 51						
	1	161 41.8	191 29.7	S 12 9.4	S 2	5 36	6 10	18 18	18 52	Enif	33 46.3	N 9 56.7			
	2	176 44.2	206 29.7	S 12 8.5	S 3	5 35	6 9	18 19	18 53	Formalhaut	15 23.2	S 29 32.5			
	3	191 46.7	221 29.8	S 12 7.6	S 4	5 34	6 7	18 21	18 54	Gacrux	171 59.0	S 57 11.7			
	4	206 49.2	236 29.8	S 12 6.8	S 5	5 33	6 6	18 22	18 55	Hadar	148 45.8	S 60 26.5			
	5	221 51.6	251 29.8	S 12 5.9	S 6	5 32	6 6	18 22	18 56	Hamal	327 59.6	N 23 32.0			
	6	236 54.1	266 29.9	S 12 5.0	S 7	5 31	6 5	18 23	18 57	Kaus Aust	83 42.5	S 34 22.3			
	7	251 56.5	281 29.9	S 12 4.1	S 8	5 30	6 4	18 24	18 58	Kochab	137 19.9	N 74 5.4			
	8	266 59.0	296 30.0	S 12 3.3	S 9	5 29	6 3	18 25	18 59	Markab	13 37.5	N 15 17.2			
	9	282 1.5	311 30.0	S 12 2.4	S 10	5 28	6 2	18 26	19 0	Menkent	148 5.8	S 36 26.4			
	10	297 3.9	326 30.1	S 12 1.5	S 11	5 27	6 1	18 27	19 1	Miaplacidu	221 38.2	S 69 47.0			
	11	312 6.4	341 30.1	S 12 0.7	S 12	5 26	6 0	18 28	19 2	Mirfak	308 38.7	N 49 54.9			
	12	327 8.9	356 30.1	S 11 59.8	S 13	5 25	5 59	18 29	19 3	Nunki	75 57.2	S 26 16.4			
	13	342 11.3	11 30.2	S 11 58.9	S 14	5 24	5 58	18 29	19 4	Peacock	53 18.0	S 56 40.9			
	14	357 13.8	26 30.2	S 11 58.0	S 15	5 22	5 57	18 30	19 5	Pollux	243 25.8	N 27 59.1			
	15	12 16.3	41 30.3	S 11 57.1	S 20	5 17	5 53	18 35	19 11	Procyon	244 58.1	N 5 11.1			
	16	27 18.7	56 30.3	S 11 56.3	S 25	5 10	5 47	18 40	19 18	Rasalhague	96 5.6	N 12 33.0			
	17	42 21.2	71 30.4	S 11 55.4	S 30	5 2	5 42	18 46	19 25	Regulus	207 41.9	N 11 53.3			
	18	57 23.7	86 30.4	S 11 54.5	S 35	4 53	5 35	18 52	19 34	Rigel	281 10.8	S 8 11.4			
	19	72 26.1	101 30.5	S 11 53.6	S 40	4 43	5 28	18 59	19 45	Rigel Kent	139 48.0	S 60 53.7			
	20	87 28.6	116 30.5	S 11 52.8	S 45	4 29	5 20	19 7	19 57	Schedar	349 39.5	N 56 37.3			
	21	102 31.0	131 30.5	S 11 51.9	S 50	4 13	5 9	19 17	20 14	Shaula	96 20.5	S 37 6.6			
	22	117 33.5	146 30.6	S 11 51.0	S 55	3 51	4 57	19 30	20 35	Sirius	258 32.3	S 16 44.3			
23	132 36.0	161 30.6	S 11 50.1	S 60	3 19	4 40	19 47	21 6	Spica	158 29.8	S 11 14.4				
		Sol			Luna										
Día		Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase					
		m s	m s		h m										
16		14 5	14 3	0.8	12 14		26.0	12							
17		14 1	13 59	0.8	12 14		27.1	6							

Tabla G. Miércoles 18 de febrero – jueves 19 de febrero de 2015.


Día	TU	Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		Aries	Sol							Nombre	SHA	Dec.
		GHA	GHA	Dec.	Lat.	h m	h m	h m	h m			
		° /	° /	° /	°						° /	° /
18	0	147 38.4	176 30.7	S 11 49.3	N 60	6 21	7 28	17 0	18 8	Achernar	335 26.4	S 57 9.9
	1	162 40.9	191 30.7	S 11 48.4	N 55	6 16	7 15	17 14	18 13	Acrux	173 7.3	S 63 10.9
	2	177 43.4	206 30.8	S 11 47.5	N 50	6 12	7 4	17 24	18 17	Adhara	255 11.3	S 29 00.0
	3	192 45.8	221 30.8	S 11 46.6	N 45	6 8	6 55	17 33	18 20	Aldebaran	290 48.0	N 16 32.2
	4	207 48.3	236 30.9	S 11 45.7	N 40	6 5	6 48	17 40	18 23	Alioth	166 19.4	N 55 52.4
	5	222 50.8	251 30.9	S 11 44.9	N 35	6 2	6 42	17 46	18 27	Alkaid	152 57.8	N 49 14.0
	6	237 53.2	266 31.0	S 11 44.0	N 30	5 58	6 37	17 51	18 30	Alnair	27 42.9	S 46 53.2
	7	252 55.7	281 31.0	S 11 43.1	N 25	5 55	6 32	17 56	18 33	Alnilam	275 45.0	S 1 11.9
	8	267 58.2	296 31.1	S 11 42.2	N 20	5 52	6 27	18 1	18 36	Alphard	217 54.6	S 8 43.7
	9	283 0.6	311 31.1	S 11 41.3	N 15	5 48	6 23	18 5	18 40	Alpheratz	357 42.6	N 29 10.5
	10	298 3.1	326 31.2	S 11 40.4	N 14	5 48	6 22	18 6	18 40	Altair	62 7.5	N 8 54.5
	11	313 5.5	341 31.2	S 11 39.6	N 13	5 47	6 21	18 7	18 41	Antares	112 24.9	S 26 27.7
	12	328 8.0	356 31.3	S 11 38.7	N 12	5 46	6 20	18 8	18 42	Arcturus	145 54.3	N 19 6.6
	13	343 10.5	11 31.3	S 11 37.8	N 11	5 45	6 19	18 8	18 42	Atria	107 25.8	S 69 2.8
	14	358 12.9	26 31.4	S 11 36.9	N 10	5 45	6 19	18 9	18 43	Avior	234 16.9	S 59 33.8
	15	13 15.4	41 31.4	S 11 36.0	N 9	5 44	6 18	18 10	18 44	Bellatrix	278 30.6	N 6 21.5
	16	28 17.9	56 31.5	S 11 35.1	N 8	5 43	6 17	18 11	18 44	Betelgeuse	270 59.9	N 7 24.3
	17	43 20.3	71 31.5	S 11 34.3	N 7	5 43	6 16	18 12	18 45	Canopus	263 55.3	S 52 42.7
	18	58 22.8	86 31.6	S 11 33.4	N 6	5 42	6 15	18 12	18 46	Capella	280 32.6	N 46 0.8
	19	73 25.3	101 31.6	S 11 32.5	N 5	5 41	6 15	18 13	18 47	Deneb	49 31.1	N 45 20.1
	20	88 27.7	116 31.7	S 11 31.6	N 4	5 40	6 14	18 14	18 47	Denebola	182 32.1	N 14 29.1
	21	103 30.2	131 31.7	S 11 30.7	N 3	5 40	6 13	18 15	18 48	Dubhe	193 49.7	N 61 39.9
	22	118 32.6	146 31.8	S 11 29.8	N 2	5 39	6 12	18 16	18 49	Elnath	278 11.0	N 28 37.1
23	133 35.1	161 31.8	S 11 28.9	N 1	5 38	6 11	18 16	18 50	Eltanin	90 45.9	N 51 29.1	
					0	5 37	6 11	18 17	18 51			
19	0	148 37.6	176 31.9	S 11 28.1	S 1	5 36	6 10	18 18	18 51	Enif	33 46.3	N 9 56.7
	1	163 40.0	191 32.0	S 11 27.2	S 2	5 35	6 9	18 19	18 52	Formalhaut	15 23.2	S 29 32.5
	2	178 42.5	206 32.0	S 11 26.3	S 3	5 35	6 8	18 20	18 53	Gacrux	171 59.0	S 57 11.7
	3	193 45.0	221 32.1	S 11 25.4	S 4	5 34	6 7	18 20	18 54	Hadar	148 45.8	S 60 26.5
	4	208 47.4	236 32.1	S 11 24.5	S 5	5 33	6 6	18 21	18 55	Hamal	327 59.6	N 23 32.0
	5	223 49.9	251 32.2	S 11 23.6	S 6	5 32	6 6	18 22	18 56	Kaus Aust	83 42.5	S 34 22.3
	6	238 52.4	266 32.2	S 11 22.7	S 7	5 31	6 5	18 23	18 56	Kochab	137 19.9	N 74 5.4
	7	253 54.8	281 32.3	S 11 21.8	S 8	5 30	6 4	18 24	18 57	Markab	13 37.5	N 15 17.2
	8	268 57.3	296 32.3	S 11 21.0	S 9	5 29	6 3	18 24	18 58	Menkent	148 5.8	S 36 26.4
	9	283 59.8	311 32.4	S 11 20.1	S 10	5 28	6 2	18 25	18 59	Miaplacidu	221 38.3	S 69 47.0
	10	299 2.2	326 32.5	S 11 19.2	S 11	5 27	6 2	18 26	19 0	Mirfak	308 38.7	N 49 54.9
	11	314 4.7	341 32.5	S 11 18.3	S 12	5 26	6 1	18 27	19 1	Nunki	75 57.1	S 26 16.4
	12	329 7.1	356 32.6	S 11 17.4	S 13	5 25	6 0	18 28	19 2	Peacock	53 18.0	S 56 40.9
	13	344 9.6	11 32.6	S 11 16.5	S 14	5 24	5 59	18 29	19 3	Pollux	243 25.8	N 27 59.2
	14	359 12.1	26 32.7	S 11 15.6	S 15	5 23	5 58	18 29	19 4	Procyon	244 58.1	N 5 11.1
	15	14 14.5	41 32.7	S 11 14.7	S 20	5 18	5 54	18 34	19 10	Rasalhague	96 5.5	N 12 33.0
	16	29 17.0	56 32.8	S 11 13.8	S 25	5 11	5 49	18 39	19 16	Regulus	207 41.9	N 11 53.3
	17	44 19.5	71 32.9	S 11 12.9	S 30	5 4	5 43	18 44	19 23	Rigel	281 10.8	S 8 11.4
	18	59 21.9	86 32.9	S 11 12.1	S 35	4 55	5 37	18 50	19 32	Rigel Kent	139 48.0	S 60 53.7
	19	74 24.4	101 33.0	S 11 11.2	S 40	4 45	5 31	18 56	19 42	Schedar	349 39.5	N 56 37.3
	20	89 26.9	116 33.0	S 11 10.3	S 45	4 33	5 23	19 4	19 54	Shaula	96 20.5	S 37 6.6
	21	104 29.3	131 33.1	S 11 9.4	S 50	4 17	5 13	19 14	20 9	Sirius	258 32.3	S 16 44.3
	22	119 31.8	146 33.2	S 11 8.5	S 55	3 56	5 1	19 25	20 30	Spica	158 29.8	S 11 14.4
23	134 34.3	161 33.2	S 11 7.6	S 60	3 26	4 45	19 41	20 59	Vega	80 38.5	N 38 47.7	
		Sol						Luna				
Día	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día		Porcentaje de iluminación		Fase			
	m s	m s		h m								
18	13 57	13 55	0.9	12 14	28.3		1					
19	13 52	13 49	0.9	12 14	29.4		0					

Tabla G. Viernes 20 de febrero – sábado 21 de febrero de 2015.


Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
20	h	° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m	h m	h m	h m	° / ' / "	° / ' / "	° / ' / "
	0	149 36.7	176 33.3	S 11 6.7	N 60	6 15	7 23	17 6	18 13	Achernar	335 26.4	S 57 9.9			
	1	164 39.2	191 33.3	S 11 5.8	N 55	6 12	7 10	17 18	18 17	Acrux	173 7.3	S 63 10.9			
	2	179 41.6	206 33.4	S 11 4.9	N 50	6 8	7 0	17 28	18 20	Adhara	255 11.3	S 29 00.0			
	3	194 44.1	221 33.5	S 11 4.0	N 45	6 5	6 52	17 36	18 23	Aldebaran	290 48.0	N 16 32.2			
	4	209 46.6	236 33.5	S 11 3.1	N 40	6 2	6 46	17 42	18 26	Alioth	166 19.4	N 55 52.4			
	5	224 49.0	251 33.6	S 11 2.2	N 35	5 59	6 40	17 48	18 28	Alkaid	152 57.7	N 49 14.0			
	6	239 51.5	266 33.7	S 11 1.3	N 30	5 56	6 35	17 53	18 31	Alnair	27 42.9	S 46 53.2			
	7	254 54.0	281 33.7	S 11 0.4	N 25	5 53	6 30	17 57	18 34	Alnilam	275 45.1	S 1 11.9			
	8	269 56.4	296 33.8	S 10 59.5	N 20	5 50	6 26	18 2	18 37	Alphard	217 54.6	S 8 43.7			
	9	284 58.9	311 33.8	S 10 58.6	N 15	5 47	6 22	18 6	18 40	Alpheratz	357 42.6	N 29 10.5			
	10	300 1.4	326 33.9	S 10 57.7	N 14	5 47	6 21	18 6	18 41	Altair	62 7.5	N 8 54.5			
	11	315 3.8	341 34.0	S 10 56.8	N 13	5 46	6 20	18 7	18 41	Antares	112 24.8	S 26 27.7			
	12	330 6.3	356 34.0	S 10 55.9	N 12	5 45	6 19	18 8	18 42	Arcturus	145 54.2	N 19 6.6			
	13	345 8.7	11 34.1	S 10 55.0	N 11	5 45	6 19	18 9	18 43	Atria	107 25.7	S 69 2.8			
	14	0 11.2	26 34.2	S 10 54.1	N 10	5 44	6 18	18 9	18 43	Avior	234 16.9	S 59 33.8			
	15	15 13.7	41 34.2	S 10 53.3	N 9	5 43	6 17	18 10	18 44	Bellatrix	278 30.6	N 6 21.5			
	16	30 16.1	56 34.3	S 10 52.4	N 8	5 43	6 16	18 11	18 45	Betelgeuse	270 59.9	N 7 24.3			
	17	45 18.6	71 34.4	S 10 51.5	N 7	5 42	6 16	18 12	18 45	Canopus	263 55.3	S 52 42.7			
	18	60 21.1	86 34.4	S 10 50.6	N 6	5 41	6 15	18 12	18 46	Capella	280 32.6	N 46 0.8			
	19	75 23.5	101 34.5	S 10 49.7	N 5	5 41	6 14	18 13	18 47	Deneb	49 31.1	N 45 20.1			
	20	90 26.0	116 34.6	S 10 48.8	N 4	5 40	6 13	18 14	18 47	Denebola	182 32.1	N 14 29.1			
	21	105 28.5	131 34.6	S 10 47.9	N 3	5 39	6 13	18 15	18 48	Dubhe	193 49.7	N 61 40.0			
22	120 30.9	146 34.7	S 10 47.0	N 2	5 39	6 12	18 15	18 49	Elnath	278 11.0	N 28 37.1				
23	135 33.4	161 34.8	S 10 46.1	N 1	5 38	6 11	18 16	18 49	Eltanin	90 45.8	N 51 29.1				
21	0	150 35.9	176 34.8	S 10 45.2	S 1	5 36	6 10	18 18	18 51	Enif	33 46.3	N 9 56.7			
	1	165 38.3	191 34.9	S 10 44.3	S 2	5 35	6 9	18 18	18 52	Formalhaut	15 23.2	S 29 32.5			
	2	180 40.8	206 35.0	S 10 43.3	S 3	5 35	6 8	18 19	18 53	Gacrux	171 59.0	S 57 11.7			
	3	195 43.2	221 35.0	S 10 42.4	S 4	5 34	6 7	18 20	18 53	Hadar	148 45.8	S 60 26.5			
	4	210 45.7	236 35.1	S 10 41.5	S 5	5 33	6 7	18 21	18 54	Hamal	327 59.6	N 23 32.0			
	5	225 48.2	251 35.2	S 10 40.6	S 6	5 32	6 6	18 21	18 55	Kaus Aust	83 42.5	S 34 22.3			
	6	240 50.6	266 35.2	S 10 39.7	S 7	5 31	6 5	18 22	18 56	Kochab	137 19.9	N 74 5.4			
	7	255 53.1	281 35.3	S 10 38.8	S 8	5 30	6 4	18 23	18 57	Markab	13 37.5	N 15 17.2			
	8	270 55.6	296 35.4	S 10 37.9	S 9	5 29	6 3	18 24	18 58	Menkent	148 5.8	S 36 26.4			
	9	285 58.0	311 35.5	S 10 37.0	S 10	5 29	6 3	18 24	18 58	Miaplacidu	221 38.3	S 69 47.0			
	10	301 0.5	326 35.5	S 10 36.1	S 11	5 28	6 2	18 25	18 59	Mirfak	308 38.7	N 49 54.9			
	11	316 3.0	341 35.6	S 10 35.2	S 12	5 27	6 1	18 26	19 0	Nunki	75 57.1	S 26 16.4			
	12	331 5.4	356 35.7	S 10 34.3	S 13	5 26	6 0	18 27	19 1	Peacock	53 18.0	S 56 40.9			
	13	346 7.9	11 35.7	S 10 33.4	S 14	5 25	5 59	18 28	19 2	Pollux	243 25.9	N 27 59.2			
	14	1 10.4	26 35.8	S 10 32.5	S 15	5 24	5 59	18 28	19 3	Procyon	244 58.1	N 5 11.1			
	15	16 12.8	41 35.9	S 10 31.6	S 20	5 19	5 54	18 33	19 8	Rasalhague	96 5.5	N 12 33.0			
	16	31 15.3	56 36.0	S 10 30.7	S 25	5 13	5 50	18 37	19 14	Regulus	207 41.9	N 11 53.3			
	17	46 17.7	71 36.0	S 10 29.8	S 30	5 6	5 45	18 42	19 21	Rigel	281 10.8	S 8 11.4			
	18	61 20.2	86 36.1	S 10 28.9	S 35	4 57	5 39	18 47	19 29	Rigel Kent	139 47.9	S 60 53.7			
	19	76 22.7	101 36.2	S 10 28.0	S 40	4 48	5 33	18 54	19 39	Schedar	349 39.5	N 56 37.3			
	20	91 25.1	116 36.3	S 10 27.1	S 45	4 36	5 25	19 1	19 50	Shaula	96 20.5	S 37 6.6			
	21	106 27.6	131 36.3	S 10 26.2	S 50	4 21	5 16	19 10	20 5	Sirius	258 32.3	S 16 44.3			
	22	121 30.1	146 36.4	S 10 25.3	S 55	4 1	5 5	19 21	20 24	Spica	158 29.8	S 11 14.4			
23	136 32.5	161 36.5	S 10 24.4	S 60	3 33	4 50	19 35	20 52	Vega	80 38.5	N 38 47.7				
Día	Sol						Luna								
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase						
	m s	m s		h m											
20	13 47	13 44	0.9	12 14		1.0	1								
21	13 40	13 37	0.9	12 14		2.1	6								

Tabla G. Domingo 22 de febrero – lunes 23 de febrero de 2015.


Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
22	h	° /	° /	° /	°	h m	h m	h m	h m	h m	h m	h m	° /	° /	° /
	0	151 35.0	176 36.6	S 10 23.4	N 60	6 10	7 17	17 11	18 18	Achernar	335 26.4	S 57 9.9			
	1	166 37.5	191 36.6	S 10 22.5	N 55	6 7	7 5	17 22	18 21	Acrux	173 7.3	S 63 10.9			
	2	181 39.9	206 36.7	S 10 21.6	N 50	6 5	6 56	17 31	18 23	Adhara	255 11.4	S 29 00.0			
	3	196 42.4	221 36.8	S 10 20.7	N 45	6 2	6 49	17 38	18 25	Aldebaran	290 48.0	N 16 32.2			
	4	211 44.9	236 36.9	S 10 19.8	N 40	6 0	6 43	17 44	18 28	Alioth	166 19.4	N 55 52.4			
	5	226 47.3	251 36.9	S 10 18.9	N 35	5 57	6 37	17 50	18 30	Alkaid	152 57.7	N 49 14.0			
	6	241 49.8	266 37.0	S 10 18.0	N 30	5 55	6 33	17 54	18 33	Alnair	27 42.9	S 46 53.2			
	7	256 52.2	281 37.1	S 10 17.1	N 25	5 52	6 28	17 59	18 35	Alnilam	275 45.1	S 1 11.9			
	8	271 54.7	296 37.2	S 10 16.2	N 20	5 49	6 24	18 3	18 38	Alphard	217 54.6	S 8 43.7			
	9	286 57.2	311 37.2	S 10 15.3	N 15	5 46	6 21	18 6	18 41	Alpheratz	357 42.6	N 29 10.5			
	10	301 59.6	326 37.3	S 10 14.4	N 14	5 46	6 20	18 7	18 41	Altair	62 7.5	N 8 54.5			
	11	317 2.1	341 37.4	S 10 13.4	N 13	5 45	6 19	18 8	18 42	Antares	112 24.8	S 26 27.7			
	12	332 4.6	356 37.5	S 10 12.5	N 12	5 45	6 19	18 8	18 42	Arcturus	145 54.2	N 19 6.6			
	13	347 7.0	11 37.5	S 10 11.6	N 11	5 44	6 18	18 9	18 43	Atria	107 25.7	S 69 2.8			
	14	2 9.5	26 37.6	S 10 10.7	N 10	5 43	6 17	18 10	18 43	Avior	234 16.9	S 59 33.8			
	15	17 12.0	41 37.7	S 10 9.8	N 9	5 43	6 16	18 10	18 44	Bellatrix	278 30.7	N 6 21.5			
	16	32 14.4	56 37.8	S 10 8.9	N 8	5 42	6 16	18 11	18 45	Betelgeuse	270 59.9	N 7 24.3			
	17	47 16.9	71 37.9	S 10 8.0	N 7	5 42	6 15	18 12	18 45	Canopus	263 55.3	S 52 42.7			
	18	62 19.3	86 37.9	S 10 7.1	N 6	5 41	6 14	18 13	18 46	Capella	280 32.6	N 46 0.8			
	19	77 21.8	101 38.0	S 10 6.1	N 5	5 40	6 14	18 13	18 47	Deneb	49 31.0	N 45 20.1			
	20	92 24.3	116 38.1	S 10 5.2	N 4	5 40	6 13	18 14	18 47	Denebola	182 32.1	N 14 29.1			
	21	107 26.7	131 38.2	S 10 4.3	N 3	5 39	6 12	18 15	18 48	Dubhe	193 49.7	N 61 40.0			
22	122 29.2	146 38.3	S 10 3.4	N 2	5 38	6 11	18 15	18 48	Elnath	278 11.0	N 28 37.1				
23	137 31.7	161 38.3	S 10 2.5	N 1	5 38	6 11	18 16	18 49	Eltanin	90 45.8	N 51 29.1				
				0	5 37	6 10	18 17	18 50							
23	0	152 34.1	176 38.4	S 10 1.6	S 1	5 36	6 9	18 17	18 51	Enif	33 46.3	N 9 56.7			
	1	167 36.6	191 38.5	S 10 0.7	S 2	5 35	6 9	18 18	18 51	Formalhaut	15 23.2	S 29 32.5			
	2	182 39.1	206 38.6	S 9 59.7	S 3	5 35	6 8	18 19	18 52	Gacrux	171 59.0	S 57 11.7			
	3	197 41.5	221 38.7	S 9 58.8	S 4	5 34	6 7	18 19	18 53	Hadara	148 45.8	S 60 26.5			
	4	212 44.0	236 38.8	S 9 57.9	S 5	5 33	6 7	18 20	18 53	Hamal	327 59.6	N 23 32.0			
	5	227 46.5	251 38.8	S 9 57.0	S 6	5 32	6 6	18 21	18 54	Kaus Aust	83 42.5	S 34 22.3			
	6	242 48.9	266 38.9	S 9 56.1	S 7	5 32	6 5	18 21	18 55	Kochab	137 19.8	N 74 5.4			
	7	257 51.4	281 39.0	S 9 55.2	S 8	5 31	6 4	18 22	18 56	Markab	13 37.5	N 15 17.2			
	8	272 53.8	296 39.1	S 9 54.3	S 9	5 30	6 4	18 23	18 57	Menkent	148 5.8	S 36 26.4			
	9	287 56.3	311 39.2	S 9 53.3	S 10	5 29	6 3	18 24	18 57	Miaplacidu	221 38.3	S 69 47.0			
	10	302 58.8	326 39.3	S 9 52.4	S 11	5 28	6 2	18 24	18 58	Mirfak	308 38.7	N 49 54.9			
	11	318 1.2	341 39.3	S 9 51.5	S 12	5 27	6 1	18 25	18 59	Nunki	75 57.1	S 26 16.4			
	12	333 3.7	356 39.4	S 9 50.6	S 13	5 26	6 1	18 26	19 0	Peacock	53 18.0	S 56 40.9			
	13	348 6.2	11 39.5	S 9 49.7	S 14	5 26	6 0	18 27	19 1	Pollux	243 25.9	N 27 59.2			
	14	3 8.6	26 39.6	S 9 48.7	S 15	5 25	5 59	18 27	19 2	Procyon	244 58.1	N 5 11.1			
	15	18 11.1	41 39.7	S 9 47.8	S 20	5 20	5 55	18 31	19 7	Rasalhague	96 5.5	N 12 33.0			
	16	33 13.6	56 39.8	S 9 46.9	S 25	5 14	5 51	18 35	19 12	Regulus	207 41.9	N 11 53.3			
	17	48 16.0	71 39.9	S 9 46.0	S 30	5 7	5 46	18 40	19 19	Rigel	281 10.8	S 8 11.4			
	18	63 18.5	86 39.9	S 9 45.1	S 35	5 0	5 41	18 45	19 26	Rigel Kent	139 47.9	S 60 53.7			
	19	78 21.0	101 40.0	S 9 44.2	S 40	4 50	5 35	18 51	19 36	Schedar	349 39.5	N 56 37.3			
	20	93 23.4	116 40.1	S 9 43.2	S 45	4 39	5 28	18 58	19 47	Shaula	96 20.5	S 37 6.6			
	21	108 25.9	131 40.2	S 9 42.3	S 50	4 25	5 20	19 6	20 1	Sirius	258 32.3	S 16 44.3			
	22	123 28.3	146 40.3	S 9 41.4	S 55	4 6	5 9	19 16	20 19	Spica	158 29.8	S 11 14.4			
23	138 30.8	161 40.4	S 9 40.5	S 60	3 40	4 56	19 29	20 45	Vega	80 38.5	N 38 47.7				
		Sol						Luna							
Día		Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase					
		m s	m s		h m										
22		13 33	13 30	0.9	12 14		3.2	13							
23		13 26	13 22	0.9	12 13		4.3	21							

Tabla G. Martes 24 de febrero – miércoles 25 de febrero de 2015.


Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
		° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m	h m	h m	° / ' / "	° / ' / "	° / ' / "	
24	h														
	0	153 33.3	176 40.5	S 9 39.6	N 60	6 5	7 11	17 16	18 23			Achernar	335 26.4	S 57 9.9	
	1	168 35.7	191 40.6	S 9 38.6	N 55	6 3	7 1	17 26	18 24			Acruz	173 7.2	S 63 10.9	
	2	183 38.2	206 40.6	S 9 37.7	N 50	6 1	6 52	17 35	18 26			Adhara	255 11.4	S 29 00.0	
	3	198 40.7	221 40.7	S 9 36.8	N 45	5 59	6 46	17 41	18 28			Aldebaran	290 48.0	N 16 32.2	
	4	213 43.1	236 40.8	S 9 35.9	N 40	5 57	6 40	17 47	18 30			Alioth	166 19.4	N 55 52.4	
	5	228 45.6	251 40.9	S 9 35.0	N 35	5 55	6 35	17 52	18 32			Alkaid	152 57.7	N 49 14.1	
	6	243 48.1	266 41.0	S 9 34.0	N 30	5 53	6 31	17 56	18 34			Alnair	27 42.8	S 46 53.2	
	7	258 50.5	281 41.1	S 9 33.1	N 25	5 50	6 27	18 0	18 36			Alnilam	275 45.1	S 1 11.9	
	8	273 53.0	296 41.2	S 9 32.2	N 20	5 48	6 23	18 3	18 38			Alphard	217 54.6	S 8 43.7	
	9	288 55.4	311 41.3	S 9 31.3	N 15	5 45	6 20	18 7	18 41			Alpheratz	357 42.6	N 29 10.5	
	10	303 57.9	326 41.4	S 9 30.3	N 14	5 45	6 19	18 7	18 41			Altair	62 7.5	N 8 54.5	
	11	319 0.4	341 41.5	S 9 29.4	N 13	5 44	6 18	18 8	18 42			Antares	112 24.8	S 26 27.7	
	12	334 2.8	356 41.5	S 9 28.5	N 12	5 44	6 18	18 9	18 43			Arcturus	145 54.2	N 19 6.6	
	13	349 5.3	11 41.6	S 9 27.6	N 11	5 43	6 17	18 9	18 43			Atria	107 25.7	S 69 2.8	
	14	4 7.8	26 41.7	S 9 26.6	N 10	5 43	6 16	18 10	18 44			Avior	234 16.9	S 59 33.9	
	15	19 10.2	41 41.8	S 9 25.7	N 9	5 42	6 16	18 11	18 44			Bellatrix	278 30.7	N 6 21.5	
	16	34 12.7	56 41.9	S 9 24.8	N 8	5 42	6 15	18 11	18 45			Betelgeuse	270 59.9	N 7 24.3	
	17	49 15.2	71 42.0	S 9 23.9	N 7	5 41	6 14	18 12	18 45			Canopus	263 55.4	S 52 42.7	
	18	64 17.6	86 42.1	S 9 22.9	N 6	5 40	6 14	18 13	18 46			Capella	280 32.6	N 46 0.8	
	19	79 20.1	101 42.2	S 9 22.0	N 5	5 40	6 13	18 13	18 46			Deneb	49 31.0	N 45 20.1	
	20	94 22.6	116 42.3	S 9 21.1	N 4	5 39	6 12	18 14	18 47			Denebola	182 32.1	N 14 29.1	
	21	109 25.0	131 42.4	S 9 20.2	N 3	5 39	6 12	18 14	18 48			Dubhe	193 49.7	N 61 40.0	
22	124 27.5	146 42.5	S 9 19.2	N 2	5 38	6 11	18 15	18 48			Elnath	278 11.0	N 28 37.1		
23	139 29.9	161 42.6	S 9 18.3	N 1	5 37	6 10	18 16	18 49			Eltanin	90 45.8	N 51 29.1		
	0			S 1	5 36	6 9	18 17	18 50			Enif	33 46.3	N 9 56.7		
	1	154 32.4	176 42.7	S 9 17.4	S 2	5 35	6 9	18 17	18 51		Formalhaut	15 23.2	S 29 32.5		
	2	169 34.9	191 42.8	S 9 16.5	S 3	5 35	6 8	18 18	18 51		Gacrux	171 59.0	S 57 11.7		
	3	184 37.3	206 42.8	S 9 15.5	S 4	5 34	6 7	18 19	18 52		Hadar	148 45.7	S 60 26.5		
	4	199 39.8	221 42.9	S 9 14.6	S 5	5 33	6 7	18 20	18 53		Hamal	327 59.6	N 23 32.0		
	5	214 42.3	236 43.0	S 9 13.7	S 6	5 32	6 6	18 20	18 54		Kaus Aust	83 42.5	S 34 22.3		
	6	229 44.7	251 43.1	S 9 12.8	S 7	5 32	6 5	18 21	18 54		Kochab	137 19.8	N 74 5.4		
	7	244 47.2	266 43.2	S 9 11.8	S 8	5 31	6 5	18 21	18 55		Markab	13 37.5	N 15 17.2		
	8	259 49.7	281 43.3	S 9 10.9	S 9	5 30	6 4	18 22	18 56		Menkent	148 5.8	S 36 26.4		
	9	274 52.1	296 43.4	S 9 10.0	S 10	5 29	6 3	18 23	18 57		Miaplacidu	221 38.3	S 69 47.1		
	10	289 54.6	311 43.5	S 9 9.0	S 11	5 29	6 3	18 23	18 57		Mirfak	308 38.7	N 49 54.9		
	11	304 57.1	326 43.6	S 9 8.1	S 12	5 28	6 2	18 24	18 58		Nunki	75 57.1	S 26 16.4		
25	12	319 59.5	341 43.7	S 9 7.2	S 13	5 27	6 1	18 25	18 59		Peacock	53 18.0	S 56 40.9		
	13	335 2.0	356 43.8	S 9 6.3	S 14	5 26	6 0	18 25	19 0		Pollux	243 25.9	N 27 59.2		
	14	350 4.4	11 43.9	S 9 5.3	S 15	5 25	6 0	18 26	19 1		Procyon	244 58.1	N 5 11.1		
	15	5 6.9	26 44.0	S 9 4.4	S 20	5 20	5 56	18 30	19 5		Rasalhague	96 5.5	N 12 33.0		
	16	20 9.4	41 44.1	S 9 3.5	S 25	5 15	5 52	18 34	19 11		Regulus	207 41.9	N 11 53.3		
	17	35 11.8	56 44.2	S 9 2.5	S 30	5 9	5 48	18 38	19 17		Rigel	281 10.9	S 8 11.4		
	18	50 14.3	71 44.3	S 9 1.6	S 35	5 2	5 43	18 43	19 24		Rigel Kent	139 47.9	S 60 53.7		
	19	65 16.8	86 44.4	S 9 0.7	S 40	4 53	5 38	18 48	19 32		Schedar	349 39.6	N 56 37.3		
	20	80 19.2	101 44.5	S 8 59.7	S 45	4 42	5 31	18 54	19 43		Shaula	96 20.4	S 37 6.6		
	21	95 21.7	116 44.6	S 8 58.8	S 50	4 29	5 23	19 2	19 56		Sirius	258 32.3	S 16 44.3		
	22	110 24.2	131 44.7	S 8 57.9	S 55	4 11	5 14	19 11	20 13		Spica	158 29.8	S 11 14.4		
	23	125 26.6	146 44.8	S 8 57.0	S 60	3 46	5 1	19 24	20 38		Vega	80 38.5	N 38 47.7		
		24	140 29.1	161 44.9	S 8 56.0	S 60	3 46	5 1	19 24	20 38		Vega	80 38.5	N 38 47.7	
		Sol			Luna										
Día	Ecuación del tiempo (00 ^h)		Corr. <i>d</i>	Paso por el meridiano	Edad día	Porcentaje de iluminación	Fase								
	m s	m s		h m											
24	13 18	13 14	0.9	12 13	5.4	31									
25	13 9	13 4	0.9	12 13	6.4	42									

Tabla G. Jueves 26 de febrero – viernes 27 de febrero de 2015.

Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
26	h	° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m	h m	h m	Nombre	° / ' / "	° / ' / "	
	0	155 31.5	176 45.0	S 8 55.1	N 60	5 59	7 6	17 21	18 28	Achernar	335 26.4	S 57 9.9			
	1	170 34.0	191 45.1	S 8 54.2	N 55	5 58	6 56	17 31	18 28	Acrux	173 7.2	S 63 10.9			
	2	185 36.5	206 45.2	S 8 53.2	N 50	5 57	6 48	17 38	18 29	Adhara	255 11.4	S 29 00.0			
	3	200 38.9	221 45.3	S 8 52.3	N 45	5 56	6 42	17 44	18 31	Aldebaran	290 48.0	N 16 32.2			
	4	215 41.4	236 45.4	S 8 51.4	N 40	5 54	6 37	17 49	18 32	Alioth	166 19.4	N 55 52.4			
	5	230 43.9	251 45.5	S 8 50.4	N 35	5 52	6 33	17 53	18 34	Alkaid	152 57.7	N 49 14.1			
	6	245 46.3	266 45.6	S 8 49.5	N 30	5 51	6 29	17 57	18 35	Alnair	27 42.8	S 46 53.2			
	7	260 48.8	281 45.7	S 8 48.6	N 25	5 49	6 25	18 1	18 37	Alnilam	275 45.1	S 1 11.9			
	8	275 51.3	296 45.8	S 8 47.6	N 20	5 47	6 22	18 4	18 39	Alphard	217 54.6	S 8 43.8			
	9	290 53.7	311 45.9	S 8 46.7	N 15	5 44	6 18	18 7	18 41	Alpheratz	357 42.6	N 29 10.5			
	10	305 56.2	326 46.0	S 8 45.8	N 14	5 44	6 18	18 8	18 42	Altair	62 7.5	N 8 54.4			
	11	320 58.7	341 46.1	S 8 44.8	N 13	5 43	6 17	18 8	18 42	Antares	112 24.8	S 26 27.7			
	12	336 1.1	356 46.2	S 8 43.9	N 12	5 43	6 17	18 9	18 43	Arcturus	145 54.2	N 19 6.6			
	13	351 3.6	11 46.3	S 8 43.0	N 11	5 42	6 16	18 10	18 43	Atria	107 25.6	S 69 2.8			
	14	6 6.0	26 46.4	S 8 42.0	N 10	5 42	6 15	18 10	18 44	Avior	234 16.9	S 59 33.9			
	15	21 8.5	41 46.5	S 8 41.1	N 9	5 41	6 15	18 11	18 44	Bellatrix	278 30.7	N 6 21.5			
	16	36 11.0	56 46.6	S 8 40.2	N 8	5 41	6 14	18 11	18 45	Betelgeuse	270 59.9	N 7 24.3			
	17	51 13.4	71 46.7	S 8 39.2	N 7	5 40	6 14	18 12	18 45	Canopus	263 55.4	S 52 42.7			
	18	66 15.9	86 46.9	S 8 38.3	N 6	5 40	6 13	18 13	18 46	Capella	280 32.6	N 46 0.8			
	19	81 18.4	101 47.0	S 8 37.3	N 5	5 39	6 12	18 13	18 46	Deneb	49 31.0	N 45 20.0			
	20	96 20.8	116 47.1	S 8 36.4	N 4	5 39	6 12	18 14	18 47	Denebola	182 32.1	N 14 29.1			
	21	111 23.3	131 47.2	S 8 35.5	N 3	5 38	6 11	18 14	18 47	Dubhe	193 49.7	N 61 40.0			
22	126 25.8	146 47.3	S 8 34.5	N 2	5 38	6 11	18 15	18 48	Elnath	278 11.0	N 28 37.1				
23	141 28.2	161 47.4	S 8 33.6	N 1	5 37	6 10	18 15	18 48	Eltanin	90 45.8	N 51 29.1				
27	0	156 30.7	176 47.5	S 8 32.7	0	5 36	6 9	18 16	18 49						
	1	171 33.2	191 47.6	S 8 31.7	S 1	5 36	6 9	18 17	18 50	Enif	33 46.3	N 9 56.7			
	2	186 35.6	206 47.7	S 8 30.8	S 2	5 35	6 8	18 17	18 50	Formalhaut	15 23.2	S 29 32.5			
	3	201 38.1	221 47.8	S 8 29.8	S 3	5 35	6 8	18 18	18 51	Gacrux	171 59.0	S 57 11.7			
	4	216 40.5	236 47.9	S 8 28.9	S 4	5 34	6 7	18 18	18 52	Hadar	148 45.7	S 60 26.5			
	5	231 43.0	251 48.0	S 8 28.0	S 5	5 33	6 7	18 19	18 52	Hamal	327 59.6	N 23 32.0			
	6	246 45.5	266 48.1	S 8 27.0	S 6	5 33	6 6	18 19	18 53	Kaus Aust	83 42.4	S 34 22.3			
	7	261 47.9	281 48.2	S 8 26.1	S 7	5 32	6 5	18 20	18 53	Kochab	137 19.7	N 74 5.4			
	8	276 50.4	296 48.4	S 8 25.2	S 8	5 31	6 5	18 21	18 54	Markab	13 37.5	N 15 17.2			
	9	291 52.9	311 48.5	S 8 24.2	S 9	5 30	6 4	18 21	18 55	Menkent	148 5.7	S 36 26.4			
	10	306 55.3	326 48.6	S 8 23.3	S 10	5 30	6 3	18 22	18 56	Miaplacidu	221 38.3	S 69 47.1			
	11	321 57.8	341 48.7	S 8 22.3	S 11	5 29	6 3	18 23	18 56	Mirfak	308 38.7	N 49 54.9			
	12	337 0.3	356 48.8	S 8 21.4	S 12	5 28	6 2	18 23	18 57	Nunki	75 57.1	S 26 16.4			
	13	352 2.7	11 48.9	S 8 20.5	S 13	5 27	6 2	18 24	18 58	Peacock	53 18.0	S 56 40.9			
	14	7 5.2	26 49.0	S 8 19.5	S 14	5 27	6 1	18 24	18 59	Pollux	243 25.9	N 27 59.2			
	15	22 7.6	41 49.1	S 8 18.6	S 15	5 26	6 0	18 25	18 59	Procyon	244 58.1	N 5 11.1			
	16	37 10.1	56 49.2	S 8 17.6	S 20	5 21	5 57	18 28	19 4	Rasalhague	96 5.5	N 12 33.0			
	17	52 12.6	71 49.3	S 8 16.7	S 25	5 16	5 53	18 32	19 9	Regulus	207 41.9	N 11 53.3			
	18	67 15.0	86 49.4	S 8 15.8	S 30	5 10	5 49	18 36	19 14	Rigel	281 10.9	S 8 11.4			
	19	82 17.5	101 49.6	S 8 14.8	S 35	5 4	5 45	18 40	19 21	Rigel Kent	139 47.9	S 60 53.8			
	20	97 20.0	116 49.7	S 8 13.9	S 40	4 55	5 40	18 45	19 29	Schedar	349 39.6	N 56 37.3			
	21	112 22.4	131 49.8	S 8 12.9	S 45	4 45	5 34	18 51	19 39	Shaula	96 20.4	S 37 6.6			
	22	127 24.9	146 49.9	S 8 12.0	S 50	4 33	5 27	18 58	19 52	Sirius	258 32.3	S 16 44.3			
23	142 27.4	161 50.0	S 8 11.0	S 55	4 16	5 18	19 6	20 8	Spica	158 29.8	S 11 14.4				
				S 60	3 52	5 6	19 18	20 31	Vega	80 38.4	N 38 47.7				
Día	Sol				Luna										
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día	Porcentaje de iluminación	Fase								
26	m s	m s		h m											
27	13 0	12 55	0.9	12 13	7.4	53									
	12 50	12 45	0.9	12 13	8.5	63									

Tabla G. Sábado 28 de febrero – domingo 1 de marzo de 2015.


Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
28	h	° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m						
	0	157 29.8	176 50.1	S 8 10.1	N 60	5 54	7 0	17 26	18 32	Achernar	335 26.5	S 57 9.9			
	1	172 32.3	191 50.2	S 8 9.2	N 55	5 54	6 51	17 35	18 32	Acrux	173 7.2	S 63 10.9			
	2	187 34.8	206 50.3	S 8 8.2	N 50	5 53	6 44	17 41	18 33	Adhara	255 11.4	S 29 00.0			
	3	202 37.2	221 50.5	S 8 7.3	N 45	5 52	6 39	17 47	18 33	Aldebaran	290 48.0	N 16 32.2			
	4	217 39.7	236 50.6	S 8 6.3	N 40	5 51	6 34	17 51	18 34	Alioth	166 19.3	N 55 52.4			
	5	232 42.1	251 50.7	S 8 5.4	N 35	5 50	6 30	17 55	18 35	Alkaid	152 57.7	N 49 14.1			
	6	247 44.6	266 50.8	S 8 4.4	N 30	5 48	6 27	17 59	18 37	Alnair	27 42.8	N 46 53.1			
	7	262 47.1	281 50.9	S 8 3.5	N 25	5 47	6 23	18 2	18 38	Alnilam	275 45.1	S 1 11.9			
	8	277 49.5	296 51.0	S 8 2.6	N 20	5 45	6 20	18 5	18 40	Alphard	217 54.6	S 8 43.8			
	9	292 52.0	311 51.1	S 8 1.6	N 15	5 43	6 17	18 8	18 42	Alpheratz	357 42.6	N 29 10.5			
	10	307 54.5	326 51.3	S 8 0.7	N 14	5 43	6 17	18 8	18 42	Altair	62 7.5	N 8 54.4			
	11	322 56.9	341 51.4	S 7 59.7	N 13	5 42	6 16	18 9	18 43	Antares	112 24.8	S 26 27.7			
	12	337 59.4	356 51.5	S 7 58.8	N 12	5 42	6 16	18 9	18 43	Arcturus	145 54.2	N 19 6.6			
	13	353 1.9	11 51.6	S 7 57.8	N 11	5 41	6 15	18 10	18 43	Atria	107 25.6	S 69 2.8			
	14	8 4.3	26 51.7	S 7 56.9	N 10	5 41	6 15	18 10	18 44	Avior	234 16.9	S 59 33.9			
	15	23 6.8	41 51.8	S 7 55.9	N 9	5 41	6 14	18 11	18 44	Bellatrix	278 30.7	N 6 21.5			
	16	38 9.3	56 52.0	S 7 55.0	N 8	5 40	6 13	18 11	18 45	Betelgeuse	270 59.9	N 7 24.3			
	17	53 11.7	71 52.1	S 7 54.1	N 7	5 40	6 13	18 12	18 45	Canopus	263 55.4	S 52 42.7			
	18	68 14.2	86 52.2	S 7 53.1	N 6	5 39	6 12	18 12	18 46	Capella	280 32.6	N 46 0.8			
	19	83 16.6	101 52.3	S 7 52.2	N 5	5 39	6 12	18 13	18 46	Deneb	49 31.0	N 45 20.0			
	20	98 19.1	116 52.4	S 7 51.2	N 4	5 38	6 11	18 13	18 47	Denebola	182 32.0	N 14 29.1			
	21	113 21.6	131 52.5	S 7 50.3	N 3	5 38	6 11	18 14	18 47	Dubhe	193 49.7	N 61 40.0			
22	128 24.0	146 52.7	S 7 49.3	N 2	5 37	6 10	18 15	18 48	Elnath	278 11.0	N 28 37.1				
23	143 26.5	161 52.8	S 7 48.4	N 1	5 37	6 10	18 15	18 48	Eltanin	90 45.8	N 51 29.1				
1	0	158 29.0	176 52.9	S 7 47.4	S 1	5 36	6 9	18 16	18 49	Enif	33 46.3	N 9 56.7			
	1	173 31.4	191 53.0	S 7 46.5	S 2	5 35	6 8	18 17	18 50	Formalhaut	15 23.2	S 29 32.5			
	2	188 33.9	206 53.1	S 7 45.5	S 3	5 34	6 8	18 17	18 50	Gacrux	171 59.0	S 57 11.8			
	3	203 36.4	221 53.2	S 7 44.6	S 4	5 34	6 7	18 18	18 51	Hadar	148 45.7	S 60 26.5			
	4	218 38.8	236 53.4	S 7 43.6	S 5	5 33	6 6	18 18	18 51	Hamal	327 59.7	N 23 32.0			
	5	233 41.3	251 53.5	S 7 42.7	S 6	5 33	6 6	18 19	18 52	Kaus Aust	83 42.4	S 34 22.3			
	6	248 43.8	266 53.6	S 7 41.7	S 7	5 32	6 5	18 19	18 53	Kochab	137 19.7	N 74 5.4			
	7	263 46.2	281 53.7	S 7 40.8	S 8	5 31	6 5	18 20	18 53	Markab	13 37.5	N 15 17.2			
	8	278 48.7	296 53.8	S 7 39.8	S 9	5 31	6 4	18 21	18 54	Menkent	148 5.7	S 36 26.4			
	9	293 51.1	311 54.0	S 7 38.9	S 10	5 30	6 4	18 21	18 55	Miaplacidu	221 38.3	S 69 47.1			
	10	308 53.6	326 54.1	S 7 37.9	S 11	5 29	6 3	18 22	18 55	Mirfak	308 38.8	N 49 54.9			
	11	323 56.1	341 54.2	S 7 37.0	S 12	5 29	6 2	18 22	18 56	Nunki	75 57.1	S 26 16.4			
	12	338 58.5	356 54.3	S 7 36.0	S 13	5 28	6 2	18 23	18 57	Peacock	53 17.9	S 56 40.9			
	13	354 1.0	11 54.4	S 7 35.1	S 14	5 27	6 1	18 23	18 57	Pollux	243 25.9	N 27 59.2			
	14	9 3.5	26 54.6	S 7 34.1	S 15	5 26	6 1	18 24	18 58	Procyon	244 58.1	N 5 11.1			
	15	24 5.9	41 54.7	S 7 33.2	S 20	5 22	5 58	18 27	19 2	Rasalhague	96 5.5	N 12 33.0			
	16	39 8.4	56 54.8	S 7 32.2	S 25	5 18	5 54	18 30	19 7	Regulus	207 41.9	N 11 53.3			
	17	54 10.9	71 54.9	S 7 31.3	S 30	5 12	5 51	18 34	19 12	Rigel	281 10.9	S 8 11.4			
	18	69 13.3	86 55.1	S 7 30.3	S 35	5 6	5 47	18 37	19 18	Rigel Kent	139 47.8	S 60 53.8			
	19	84 15.8	101 55.2	S 7 29.4	S 40	4 58	5 42	18 42	19 26	Schedar	349 39.6	N 56 37.3			
	20	99 18.2	116 55.3	S 7 28.4	S 45	4 48	5 37	18 47	19 35	Shaula	96 20.4	S 37 6.6			
	21	114 20.7	131 55.4	S 7 27.5	S 50	4 36	5 30	18 54	19 47	Sirius	258 32.4	S 16 44.3			
	22	129 23.2	146 55.5	S 7 26.5	S 55	4 21	5 22	19 1	20 2	Spica	158 29.7	S 11 14.5			
23	144 25.6	161 55.7	S 7 25.6	S 60	3 59	5 11	19 12	20 24	Vega	80 38.4	N 38 47.7				
Día	Sol						Luna								
	Ecuación del tiempo (00 ^h)		Corr. <i>d</i>	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase						
	m s	m s		h m											
28	12 39	12 34	0.9	12 13	9.5	72									
1	12 28	12 22	0.9	12 12	10.4	80									

Tabla G. Lunes 2 de marzo – martes 3 de marzo de 2015.

Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
2	h	° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m	h m	h m	h m	° / ' / "	° / ' / "	° / ' / "
	0	159 28.1	176 55.8	S 7 24.6	N 60	5 48	6 54	17 31	18 37	Achernar	335 26.5	S 57 9.9			
	1	174 30.6	191 55.9	S 7 23.7	N 55	5 49	6 46	17 39	18 36	Acrux	173 7.2	S 63 10.9			
	2	189 33.0	206 56.0	S 7 22.7	N 50	5 49	6 40	17 45	18 36	Adhara	255 11.4	S 29 00.0			
	3	204 35.5	221 56.2	S 7 21.8	N 45	5 49	6 35	17 49	18 36	Aldebaran	290 48.0	N 16 32.2			
	4	219 38.0	236 56.3	S 7 20.8	N 40	5 48	6 31	17 53	18 36	Alioth	166 19.3	N 55 52.5			
	5	234 40.4	251 56.4	S 7 19.9	N 35	5 47	6 28	17 57	18 37	Alkaid	152 57.7	N 49 14.1			
	6	249 42.9	266 56.5	S 7 18.9	N 30	5 46	6 24	18 0	18 38	Alnair	27 42.8	S 46 53.1			
	7	264 45.4	281 56.7	S 7 18.0	N 25	5 45	6 21	18 3	18 39	Alnilam	275 45.1	S 1 11.9			
	8	279 47.8	296 56.8	S 7 17.0	N 20	5 44	6 19	18 6	18 41	Alphard	217 54.6	S 8 43.8			
	9	294 50.3	311 56.9	S 7 16.1	N 15	5 42	6 16	18 8	18 42	Alpheratz	357 42.6	N 29 10.5			
	10	309 52.7	326 57.0	S 7 15.1	N 14	5 42	6 16	18 9	18 42	Altair	62 7.4	N 8 54.4			
	11	324 55.2	341 57.2	S 7 14.2	N 13	5 41	6 15	18 9	18 43	Antares	112 24.8	S 26 27.7			
	12	339 57.7	356 57.3	S 7 13.2	N 12	5 41	6 15	18 10	18 43	Arcturus	145 54.2	N 19 6.6			
	13	355 0.1	11 57.4	S 7 12.3	N 11	5 41	6 14	18 10	18 44	Atria	107 25.5	S 69 2.8			
	14	10 2.6	26 57.5	S 7 11.3	N 10	5 40	6 14	18 10	18 44	Avior	234 16.9	S 59 33.9			
	15	25 5.1	41 57.7	S 7 10.3	N 9	5 40	6 13	18 11	18 44	Bellatrix	278 30.7	N 6 21.5			
	16	40 7.5	56 57.8	S 7 9.4	N 8	5 39	6 13	18 11	18 45	Betelgeuse	270 59.9	N 7 24.3			
	17	55 10.0	71 57.9	S 7 8.4	N 7	5 39	6 12	18 12	18 45	Canopus	263 55.4	S 52 42.7			
	18	70 12.5	86 58.1	S 7 7.5	N 6	5 39	6 12	18 12	18 45	Capella	280 32.6	N 46 0.8			
	19	85 14.9	101 58.2	S 7 6.5	N 5	5 38	6 11	18 13	18 46	Deneb	49 31.0	N 45 20.0			
	20	100 17.4	116 58.3	S 7 5.6	N 4	5 38	6 11	18 13	18 46	Denebola	182 32.0	N 14 29.1			
	21	115 19.9	131 58.4	S 7 4.6	N 3	5 37	6 10	18 14	18 47	Dubhe	193 49.7	N 61 40.0			
22	130 22.3	146 58.6	S 7 3.7	N 2	5 37	6 10	18 14	18 47	Elnath	278 11.1	N 28 37.1				
23	145 24.8	161 58.7	S 7 2.7	N 1	5 36	6 9	18 15	18 48	Eltanin	90 45.7	N 51 29.1				
3	0	160 27.2	176 58.8	S 7 1.7	S 1	5 35	6 8	18 16	18 49	Enif	33 46.3	N 9 56.7			
	1	175 29.7	191 59.0	S 7 0.8	S 2	5 35	6 8	18 16	18 49	Formalhaut	15 23.2	S 29 32.5			
	2	190 32.2	206 59.1	S 6 59.8	S 3	5 34	6 7	18 17	18 50	Gacrux	171 59.0	S 57 11.8			
	3	205 34.6	221 59.2	S 6 58.9	S 4	5 34	6 7	18 17	18 50	Hadar	148 45.7	S 60 26.5			
	4	220 37.1	236 59.3	S 6 57.9	S 5	5 33	6 6	18 18	18 51	Hamal	327 59.7	N 23 32.0			
	5	235 39.6	251 59.5	S 6 57.0	S 6	5 33	6 6	18 18	18 51	Kaus Aust	83 42.4	S 34 22.3			
	6	250 42.0	266 59.6	S 6 56.0	S 7	5 32	6 5	18 19	18 52	Kochab	137 19.7	N 74 5.4			
	7	265 44.5	281 59.7	S 6 55.1	S 8	5 31	6 5	18 19	18 52	Markab	13 37.5	N 15 17.2			
	8	280 47.0	296 59.9	S 6 54.1	S 9	5 31	6 4	18 20	18 53	Menkent	148 5.7	S 36 26.4			
	9	295 49.4	312 00.0	S 6 53.1	S 10	5 30	6 4	18 20	18 54	Miaplacidu	221 38.3	S 69 47.1			
	10	310 51.9	327 0.1	S 6 52.2	S 11	5 30	6 3	18 21	18 54	Mirfak	308 38.8	N 49 54.9			
	11	325 54.3	342 0.3	S 6 51.2	S 12	5 29	6 3	18 21	18 55	Nunki	75 57.1	S 26 16.4			
	12	340 56.8	357 0.4	S 6 50.3	S 13	5 28	6 2	18 22	18 55	Peacock	53 17.9	S 56 40.9			
	13	355 59.3	12 0.5	S 6 49.3	S 14	5 28	6 2	18 22	18 56	Pollux	243 25.9	N 27 59.2			
	14	11 1.7	27 0.6	S 6 48.4	S 15	5 27	6 1	18 23	18 57	Procyon	244 58.1	N 5 11.1			
	15	26 4.2	42 0.8	S 6 47.4	S 20	5 23	5 58	18 25	19 1	Rasalhague	96 5.5	N 12 33.0			
	16	41 6.7	57 0.9	S 6 46.4	S 25	5 19	5 55	18 28	19 5	Regulus	207 41.9	N 11 53.3			
	17	56 9.1	72 1.0	S 6 45.5	S 30	5 14	5 52	18 31	19 10	Rigel	281 10.9	S 8 11.4			
	18	71 11.6	87 1.2	S 6 44.5	S 35	5 8	5 48	18 35	19 16	Rigel Kent	139 47.8	S 60 53.8			
	19	86 14.1	102 1.3	S 6 43.6	S 40	5 0	5 44	18 39	19 23	Schedar	349 39.6	N 56 37.3			
	20	101 16.5	117 1.4	S 6 42.6	S 45	4 51	5 39	18 44	19 32	Shaula	96 20.4	S 37 6.6			
	21	116 19.0	132 1.6	S 6 41.6	S 50	4 40	5 33	18 49	19 43	Sirius	258 32.4	S 16 44.3			
	22	131 21.5	147 1.7	S 6 40.7	S 55	4 25	5 26	18 57	19 57	Spica	158 29.7	S 11 14.5			
23	146 23.9	162 1.8	S 6 39.7	S 60	4 5	5 17	19 6	20 17	Vega	80 38.4	N 38 47.7				
Día	Sol				Luna										
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día	Porcentaje de iluminación	Fase								
2	m s	m s		h m											
3	12 17	12 11	0.9	12 12	11.4	87									
	12 4	11 58	0.9	12 12	12.3	93									



Tabla G. Miércoles 4 de marzo – jueves 5 de marzo de 2015.


Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
4	h	° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m	h m	h m	h m	° / ' / "	° / ' / "	° / ' / "
	0	161 26.4	177 2.0	S 6 38.8	N 60	5 42	6 48	17 36	18 42	Achernar	335 26.5	S 57 9.9			
	1	176 28.8	192 2.1	S 6 37.8	N 55	5 44	6 41	17 43	18 40	Acruz	173 7.2	S 63 10.9			
	2	191 31.3	207 2.2	S 6 36.8	N 50	5 45	6 36	17 48	18 39	Adhara	255 11.4	S 29 0.0			
	3	206 33.8	222 2.4	S 6 35.9	N 45	5 45	6 32	17 52	18 39	Aldebaran	290 48.1	N 16 32.2			
	4	221 36.2	237 2.5	S 6 34.9	N 40	5 45	6 28	17 56	18 39	Alioth	166 19.3	N 55 52.5			
	5	236 38.7	252 2.6	S 6 34.0	N 35	5 45	6 25	17 59	18 39	Alkaid	152 57.6	N 49 14.1			
	6	251 41.2	267 2.8	S 6 33.0	N 30	5 44	6 22	18 1	18 39	Alnair	27 42.8	S 46 53.1			
	7	266 43.6	282 2.9	S 6 32.0	N 25	5 43	6 20	18 4	18 40	Alnilam	275 45.1	S 1 11.9			
	8	281 46.1	297 3.1	S 6 31.1	N 20	5 42	6 17	18 6	18 41	Alphard	217 54.6	S 8 43.8			
	9	296 48.6	312 3.2	S 6 30.1	N 15	5 41	6 15	18 8	18 42	Alpheratz	357 42.6	N 29 10.5			
	10	311 51.0	327 3.3	S 6 29.2	N 14	5 41	6 14	18 9	18 43	Altair	62 7.4	N 8 54.4			
	11	326 53.5	342 3.5	S 6 28.2	N 13	5 40	6 14	18 9	18 43	Antares	112 24.7	S 26 27.7			
	12	341 56.0	357 3.6	S 6 27.2	N 12	5 40	6 14	18 10	18 43	Arcturus	145 54.2	N 19 6.6			
	13	356 58.4	12 3.7	S 6 26.3	N 11	5 40	6 13	18 10	18 44	Atria	107 25.5	S 69 2.8			
	14	12 0.9	27 3.9	S 6 25.3	N 10	5 39	6 13	18 11	18 44	Avior	234 17.0	S 59 33.9			
	15	27 3.3	42 4.0	S 6 24.3	N 9	5 39	6 12	18 11	18 44	Bellatrix	278 30.7	N 6 21.5			
	16	42 5.8	57 4.1	S 6 23.4	N 8	5 39	6 12	18 11	18 45	Betelgeuse	270 59.9	N 7 24.3			
	17	57 8.3	72 4.3	S 6 22.4	N 7	5 38	6 11	18 12	18 45	Canopus	263 55.4	S 52 42.7			
	18	72 10.7	87 4.4	S 6 21.5	N 6	5 38	6 11	18 12	18 45	Capella	280 32.7	N 46 0.8			
	19	87 13.2	102 4.6	S 6 20.5	N 5	5 37	6 10	18 13	18 46	Deneb	49 31.0	N 45 20.0			
	20	102 15.7	117 4.7	S 6 19.5	N 4	5 37	6 10	18 13	18 46	Denebola	182 32.0	N 14 29.1			
	21	117 18.1	132 4.8	S 6 18.6	N 3	5 37	6 10	18 13	18 46	Dubhe	193 49.7	N 61 40.0			
22	132 20.6	147 5.0	S 6 17.6	N 2	5 36	6 9	18 14	18 47	Elnath	278 11.1	N 28 37.1				
23	147 23.1	162 5.1	S 6 16.6	N 1	5 36	6 9	18 14	18 47	Eltanin	90 45.7	N 51 29.1				
				0	5 35	6 8	18 15	18 48							
5	0	162 25.5	177 5.2	S 6 15.7	S 1	5 35	6 8	18 15	18 48	Enif	33 46.3	N 9 56.7			
	1	177 28.0	192 5.4	S 6 14.7	S 2	5 34	6 7	18 16	18 49	Formalhaut	15 23.2	S 29 32.5			
	2	192 30.4	207 5.5	S 6 13.7	S 3	5 34	6 7	18 16	18 49	Gacrux	171 58.9	S 57 11.8			
	3	207 32.9	222 5.7	S 6 12.8	S 4	5 34	6 7	18 16	18 49	Hadar	148 45.6	S 60 26.5			
	4	222 35.4	237 5.8	S 6 11.8	S 5	5 33	6 6	18 17	18 50	Hamal	327 59.7	N 23 32.0			
	5	237 37.8	252 5.9	S 6 10.9	S 6	5 33	6 6	18 17	18 50	Kaus Aust	83 42.4	S 34 22.3			
	6	252 40.3	267 6.1	S 6 9.9	S 7	5 32	6 5	18 18	18 51	Kochab	137 19.6	N 74 5.4			
	7	267 42.8	282 6.2	S 6 8.9	S 8	5 31	6 5	18 18	18 51	Markab	13 37.5	N 15 17.2			
	8	282 45.2	297 6.4	S 6 8.0	S 9	5 31	6 4	18 19	18 52	Menkent	148 5.7	S 36 26.4			
	9	297 47.7	312 6.5	S 6 7.0	S 10	5 30	6 4	18 19	18 53	Miaplacidu	221 38.3	S 69 47.1			
	10	312 50.2	327 6.6	S 6 6.0	S 11	5 30	6 3	18 19	18 53	Mirfak	308 38.8	N 49 54.9			
	11	327 52.6	342 6.8	S 6 5.1	S 12	5 29	6 3	18 20	18 54	Nunki	75 57.0	S 26 16.4			
	12	342 55.1	357 6.9	S 6 4.1	S 13	5 29	6 3	18 20	18 54	Peacock	53 17.9	S 56 40.9			
	13	357 57.6	12 7.1	S 6 3.1	S 14	5 28	6 2	18 21	18 55	Pollux	243 25.9	N 27 59.2			
	14	13 0.0	27 7.2	S 6 2.2	S 15	5 27	6 2	18 21	18 55	Procyon	244 58.1	N 5 11.1			
	15	28 2.5	42 7.3	S 6 1.2	S 20	5 24	5 59	18 24	18 59	Rasalhague	96 5.4	N 12 33.0			
	16	43 4.9	57 7.5	S 6 0.2	S 25	5 20	5 56	18 26	19 3	Regulus	207 41.9	N 11 53.3			
	17	58 7.4	72 7.6	S 5 59.3	S 30	5 15	5 53	18 29	19 7	Rigel	281 10.9	S 8 11.4			
	18	73 9.9	87 7.8	S 5 58.3	S 35	5 9	5 50	18 32	19 13	Rigel Kent	139 47.8	S 60 53.8			
	19	88 12.3	102 7.9	S 5 57.3	S 40	5 3	5 46	18 36	19 20	Schedar	349 39.6	N 56 37.3			
	20	103 14.8	117 8.1	S 5 56.4	S 45	4 54	5 42	18 40	19 28	Shaula	96 20.4	S 37 6.6			
	21	118 17.3	132 8.2	S 5 55.4	S 50	4 44	5 37	18 45	19 38	Sirius	258 32.4	S 16 44.3			
	22	133 19.7	147 8.3	S 5 54.4	S 55	4 30	5 30	18 52	19 52	Spica	158 29.7	S 11 14.5			
23	148 22.2	162 8.5	S 5 53.5	S 60	4 11	5 22	19 0	20 10	Vega	80 38.4	N 38 47.7				
Día	Sol				Luna										
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día	Porcentaje de iluminación	Fase								
	m s	m s		h m											
4	11 52	11 45	0.9	12 12	13.2	97									
5	11 39	11 32	0.9	12 12	14.0	99									

Tabla G. Viernes 6 de marzo – sábado 7 de marzo de 2015.

Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
6	h	° /	° /	° /	°	h m	h m	h m	h m						
	0	163 24.7	177 8.6	S 5 52.5	N 60	5 36	6 42	17 41	18 47	Achernar	335 26.5	S 57 9.9			
	1	178 27.1	192 8.8	S 5 51.5	N 55	5 39	6 36	17 47	18 44	Acrux	173 7.2	S 63 10.9			
	2	193 29.6	207 8.9	S 5 50.6	N 50	5 41	6 32	17 51	18 42	Adhara	255 11.4	S 29 0.0			
	3	208 32.1	222 9.1	S 5 49.6	N 45	5 42	6 28	17 55	18 41	Aldebaran	290 48.1	N 16 32.2			
	4	223 34.5	237 9.2	S 5 48.6	N 40	5 42	6 25	17 58	18 41	Alioth	166 19.3	N 55 52.5			
	5	238 37.0	252 9.3	S 5 47.7	N 35	5 42	6 22	18 0	18 40	Alkaid	152 57.6	N 49 14.1			
	6	253 39.4	267 9.5	S 5 46.7	N 30	5 42	6 20	18 3	18 41	Alnair	27 42.8	S 46 53.1			
	7	268 41.9	282 9.6	S 5 45.7	N 25	5 41	6 18	18 5	18 41	Alnilam	275 45.1	S 1 11.9			
	8	283 44.4	297 9.8	S 5 44.8	N 20	5 41	6 16	18 7	18 42	Alphard	217 54.6	S 8 43.8			
	9	298 46.8	312 9.9	S 5 43.8	N 15	5 40	6 14	18 9	18 43	Alpheratz	357 42.6	N 29 10.4			
	10	313 49.3	327 10.1	S 5 42.8	N 14	5 39	6 13	18 9	18 43	Altair	62 7.4	N 8 54.4			
	11	328 51.8	342 10.2	S 5 41.9	N 13	5 39	6 13	18 10	18 43	Antares	112 24.7	S 26 27.7			
	12	343 54.2	357 10.4	S 5 40.9	N 12	5 39	6 12	18 10	18 43	Arcturus	145 54.2	N 19 6.6			
	13	358 56.7	12 10.5	S 5 39.9	N 11	5 39	6 12	18 10	18 44	Atria	107 25.5	S 69 2.8			
	14	13 59.2	27 10.6	S 5 39.0	N 10	5 38	6 12	18 11	18 44	Avior	234 17.0	S 59 33.9			
	15	29 1.6	42 10.8	S 5 38.0	N 9	5 38	6 11	18 11	18 44	Bellatrix	278 30.7	N 6 21.5			
	16	44 4.1	57 10.9	S 5 37.0	N 8	5 38	6 11	18 11	18 45	Betelgeuse	271 00.0	N 7 24.3			
	17	59 6.5	72 11.1	S 5 36.0	N 7	5 37	6 10	18 12	18 45	Canopus	263 55.4	S 52 42.7			
	18	74 9.0	87 11.2	S 5 35.1	N 6	5 37	6 10	18 12	18 45	Capella	280 32.7	N 46 0.8			
	19	89 11.5	102 11.4	S 5 34.1	N 5	5 37	6 10	18 12	18 45	Deneb	49 31.0	N 45 20.0			
	20	104 13.9	117 11.5	S 5 33.1	N 4	5 36	6 9	18 13	18 46	Denebola	182 32.0	N 14 29.1			
	21	119 16.4	132 11.7	S 5 32.2	N 3	5 36	6 9	18 13	18 46	Dubhe	193 49.7	N 61 40.0			
22	134 18.9	147 11.8	S 5 31.2	N 2	5 36	6 9	18 14	18 46	Elnath	278 11.1	N 28 37.1				
23	149 21.3	162 12.0	S 5 30.2	N 1	5 35	6 8	18 14	18 47	Eltanin	90 45.7	N 51 29.1				
7	0	164 23.8	177 12.1	S 5 29.3	S 1	5 35	6 7	18 15	18 48	Enif	33 46.3	N 9 56.7			
	1	179 26.3	192 12.3	S 5 28.3	S 2	5 34	6 7	18 15	18 48	Formalhaut	15 23.2	S 29 32.5			
	2	194 28.7	207 12.4	S 5 27.3	S 3	5 34	6 7	18 15	18 48	Gacrux	171 58.9	S 57 11.8			
	3	209 31.2	222 12.6	S 5 26.3	S 4	5 33	6 6	18 16	18 49	Hadar	148 45.6	S 60 26.5			
	4	224 33.7	237 12.7	S 5 25.4	S 5	5 33	6 6	18 16	18 49	Hamal	327 59.7	N 23 32.0			
	5	239 36.1	252 12.9	S 5 24.4	S 6	5 32	6 6	18 16	18 50	Kaus Aust	83 42.4	S 34 22.3			
	6	254 38.6	267 13.0	S 5 23.4	S 7	5 32	6 5	18 17	18 50	Kochab	137 19.6	N 74 5.4			
	7	269 41.0	282 13.2	S 5 22.5	S 8	5 32	6 5	18 17	18 50	Markab	13 37.5	N 15 17.2			
	8	284 43.5	297 13.3	S 5 21.5	S 9	5 31	6 4	18 18	18 51	Menkent	148 5.7	S 36 26.4			
	9	299 46.0	312 13.4	S 5 20.5	S 10	5 31	6 4	18 18	18 51	Miaplacidu	221 38.4	S 69 47.1			
	10	314 48.4	327 13.6	S 5 19.6	S 11	5 30	6 4	18 18	18 52	Mirfak	308 38.8	N 49 54.9			
	11	329 50.9	342 13.7	S 5 18.6	S 12	5 29	6 3	18 19	18 52	Nunki	75 57.0	S 26 16.4			
	12	344 53.4	357 13.9	S 5 17.6	S 13	5 29	6 3	18 19	18 53	Peacock	53 17.9	S 56 40.9			
	13	359 55.8	12 14.0	S 5 16.6	S 14	5 28	6 2	18 20	18 54	Pollux	243 25.9	N 27 59.2			
	14	14 58.3	27 14.2	S 5 15.7	S 15	5 28	6 2	18 20	18 54	Procyon	244 58.1	N 5 11.1			
	15	30 0.8	42 14.3	S 5 14.7	S 20	5 25	6 0	18 22	18 57	Rasalhague	96 5.4	N 12 33.0			
	16	45 3.2	57 14.5	S 5 13.7	S 25	5 21	5 57	18 24	19 1	Regulus	207 41.9	N 11 53.3			
	17	60 5.7	72 14.6	S 5 12.7	S 30	5 17	5 55	18 27	19 5	Rigel	281 10.9	S 8 11.4			
	18	75 8.2	87 14.8	S 5 11.8	S 35	5 11	5 52	18 30	19 10	Rigel Kent	139 47.8	S 60 53.8			
	19	90 10.6	102 14.9	S 5 10.8	S 40	5 5	5 49	18 33	19 16	Schedar	349 39.6	N 56 37.3			
	20	105 13.1	117 15.1	S 5 9.8	S 45	4 57	5 45	18 36	19 24	Shaula	96 20.4	S 37 6.6			
	21	120 15.5	132 15.2	S 5 8.9	S 50	4 47	5 40	18 41	19 33	Sirius	258 32.4	S 16 44.3			
	22	135 18.0	147 15.4	S 5 7.9	S 55	4 34	5 34	18 47	19 46	Spica	158 29.7	S 11 14.5			
23	150 20.5	162 15.5	S 5 6.9	S 60	4 17	5 27	18 54	20 3	Vega	80 38.4	N 38 47.7				
Día	Sol						Luna								
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase						
6	m s	m s		h m					○						
7	11 25	11 18	0.9	12 11		14.9	99								
	11 11	11 4	1.0	12 11		15.8	98								

Tabla G. Domingo 8 de marzo – lunes 9 de marzo de 2015.


Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
8	h	° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m						
	0	165 22.9	177 15.7	S 5 5.9	N 60	5 31	6 36	17 46	18 52	Achernar	335 26.5	S 57 9.9			
	1	180 25.4	192 15.9	S 5 5.0	N 55	5 34	6 31	17 51	18 48	Acrux	173 7.2	S 63 11.0			
	2	195 27.9	207 16.0	S 5 4.0	N 50	5 37	6 28	17 54	18 46	Adhara	255 11.4	S 29 0.0			
	3	210 30.3	222 16.2	S 5 3.0	N 45	5 38	6 24	17 57	18 44	Aldebaran	290 48.1	N 16 32.2			
	4	225 32.8	237 16.3	S 5 2.0	N 40	5 39	6 22	18 0	18 43	Alioth	166 19.3	N 55 52.5			
	5	240 35.3	252 16.5	S 5 1.1	N 35	5 40	6 20	18 2	18 42	Alkaid	152 57.6	N 49 14.1			
	6	255 37.7	267 16.6	S 5 0.1	N 30	5 40	6 18	18 4	18 42	Alnair	27 42.8	S 46 53.1			
	7	270 40.2	282 16.8	S 4 59.1	N 25	5 39	6 16	18 6	18 42	Alnilam	275 45.1	S 1 11.9			
	8	285 42.7	297 16.9	S 4 58.1	N 20	5 39	6 14	18 8	18 42	Alphard	217 54.6	S 8 43.8			
	9	300 45.1	312 17.1	S 4 57.2	N 15	5 38	6 12	18 9	18 43	Alpheratz	357 42.6	N 29 10.4			
	10	315 47.6	327 17.2	S 4 56.2	N 14	5 38	6 12	18 9	18 43	Altair	62 7.4	N 8 54.4			
	11	330 50.0	342 17.4	S 4 55.2	N 13	5 38	6 12	18 10	18 43	Antares	112 24.7	S 26 27.7			
	12	345 52.5	357 17.5	S 4 54.2	N 12	5 38	6 11	18 10	18 44	Arcturus	145 54.2	N 19 6.6			
	13	0 55.0	12 17.7	S 4 53.3	N 11	5 37	6 11	18 10	18 44	Atria	107 25.4	S 69 2.8			
	14	15 57.4	27 17.8	S 4 52.3	N 10	5 37	6 11	18 11	18 44	Avior	234 17.0	S 59 33.9			
	15	30 59.9	42 18.0	S 4 51.3	N 9	5 37	6 10	18 11	18 44	Bellatrix	278 30.7	N 6 21.5			
	16	46 2.4	57 18.1	S 4 50.4	N 8	5 37	6 10	18 11	18 44	Betelgeuse	271 00.0	N 7 24.3			
	17	61 4.8	72 18.3	S 4 49.4	N 7	5 37	6 10	18 12	18 45	Canopus	263 55.5	S 52 42.7			
	18	76 7.3	87 18.5	S 4 48.4	N 6	5 36	6 9	18 12	18 45	Capella	280 32.7	N 46 0.8			
	19	91 9.8	102 18.6	S 4 47.4	N 5	5 36	6 9	18 12	18 45	Deneb	49 31.0	N 45 20.0			
	20	106 12.2	117 18.8	S 4 46.4	N 4	5 36	6 9	18 13	18 45	Denebola	182 32.0	N 14 29.1			
	21	121 14.7	132 18.9	S 4 45.5	N 3	5 35	6 8	18 13	18 46	Dubhe	193 49.7	N 61 40.0			
22	136 17.1	147 19.1	S 4 44.5	N 2	5 35	6 8	18 13	18 46	Elnath	278 11.1	N 28 37.1				
23	151 19.6	162 19.2	S 4 43.5	N 1	5 35	6 8	18 13	18 46	Eltanin	90 45.7	N 51 29.1				
9	0	166 22.1	177 19.4	S 4 42.5	S 1	5 34	6 7	18 14	18 47	Enif	33 46.3	N 9 56.7			
	1	181 24.5	192 19.5	S 4 41.6	S 2	5 34	6 7	18 14	18 47	Formalhaut	15 23.2	S 29 32.5			
	2	196 27.0	207 19.7	S 4 40.6	S 3	5 33	6 6	18 15	18 48	Gacrux	171 58.9	S 57 11.8			
	3	211 29.5	222 19.8	S 4 39.6	S 4	5 33	6 6	18 15	18 48	Hadar	148 45.6	S 60 26.5			
	4	226 31.9	237 20.0	S 4 38.6	S 5	5 33	6 6	18 15	18 48	Hamal	327 59.7	N 23 32.0			
	5	241 34.4	252 20.2	S 4 37.7	S 6	5 32	6 5	18 16	18 49	Kaus Aust	83 42.4	S 34 22.3			
	6	256 36.9	267 20.3	S 4 36.7	S 7	5 32	6 5	18 16	18 49	Kochab	137 19.5	N 74 5.4			
	7	271 39.3	282 20.5	S 4 35.7	S 8	5 32	6 5	18 16	18 49	Markab	13 37.5	N 15 17.2			
	8	286 41.8	297 20.6	S 4 34.7	S 9	5 31	6 4	18 17	18 50	Menkent	148 5.7	S 36 26.4			
	9	301 44.3	312 20.8	S 4 33.8	S 10	5 31	6 4	18 17	18 50	Miaplacidu	221 38.4	S 69 47.1			
	10	316 46.7	327 20.9	S 4 32.8	S 11	5 30	6 4	18 17	18 51	Mirfak	308 38.8	N 49 54.9			
	11	331 49.2	342 21.1	S 4 31.8	S 12	5 30	6 3	18 18	18 51	Nunki	75 57.0	S 26 16.4			
	12	346 51.6	357 21.3	S 4 30.8	S 13	5 29	6 3	18 18	18 52	Peacock	53 17.9	S 56 40.9			
	13	1 54.1	12 21.4	S 4 29.8	S 14	5 29	6 3	18 18	18 52	Pollux	243 25.9	N 27 59.2			
	14	16 56.6	27 21.6	S 4 28.9	S 15	5 28	6 2	18 19	18 53	Procyon	244 58.1	N 5 11.1			
	15	31 59.0	42 21.7	S 4 27.9	S 20	5 25	6 0	18 20	18 55	Rasalhague	96 5.4	N 12 33.0			
	16	47 1.5	57 21.9	S 4 26.9	S 25	5 22	5 58	18 22	18 59	Regulus	207 41.9	N 11 53.3			
	17	62 4.0	72 22.0	S 4 25.9	S 30	5 18	5 56	18 24	19 3	Rigel	281 10.9	S 8 11.4			
	18	77 6.4	87 22.2	S 4 25.0	S 35	5 13	5 54	18 27	19 7	Rigel Kent	139 47.7	S 60 53.8			
	19	92 8.9	102 22.4	S 4 24.0	S 40	5 7	5 51	18 30	19 13	Schedar	349 39.6	N 56 37.3			
	20	107 11.4	117 22.5	S 4 23.0	S 45	5 0	5 47	18 33	19 20	Shaula	96 20.3	S 37 6.6			
	21	122 13.8	132 22.7	S 4 22.0	S 50	4 51	5 43	18 37	19 29	Sirius	258 32.4	S 16 44.3			
	22	137 16.3	147 22.8	S 4 21.0	S 55	4 39	5 38	18 42	19 41	Spica	158 29.7	S 11 14.5			
23	152 18.8	162 23.0	S 4 20.1	S 60	4 23	5 32	18 48	19 57	Vega	80 38.4	N 38 47.7				
Día	Sol				Luna										
	Ecuación del tiempo (00 ^h)		Corr. <i>d</i>	Paso por el meridiano	Edad día	Porcentaje de iluminación		Fase							
8	m s	m s		h m											
9	10 57	10 50	1.0	12 11	16.6	95									
	10 42	10 35	1.0	12 11	17.5	90									

Tabla G. Martes 10 de marzo – miércoles 11 de marzo de 2015.


Día	TU	Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		Aries	Sol							Nombre	SHA	Dec.
		GHA	GHA	Dec.								
		° /	° /	° /	°	h m	h m	h m	h m		° /	° /
10	0	167 21.2	177 23.1	S 4 19.1	N 60	5 25	6 30	17 51	18 57	Achernar	335 26.5	S 57 9.8
	1	182 23.7	192 23.3	S 4 18.1	N 55	5 29	6 26	17 55	18 52	Acrux	173 7.2	S 63 11.0
	2	197 26.1	207 23.5	S 4 17.1	N 50	5 32	6 23	17 58	18 49	Adhara	255 11.4	S 29 0.0
	3	212 28.6	222 23.6	S 4 16.2	N 45	5 35	6 21	18 0	18 46	Aldebaran	290 48.1	N 16 32.2
	4	227 31.1	237 23.8	S 4 15.2	N 40	5 36	6 19	18 2	18 45	Alioth	166 19.3	N 55 52.5
	5	242 33.5	252 23.9	S 4 14.2	N 35	5 37	6 17	18 4	18 44	Alkaid	152 57.6	N 49 14.1
	6	257 36.0	267 24.1	S 4 13.2	N 30	5 37	6 15	18 5	18 43	Alnair	27 42.8	S 46 53.1
	7	272 38.5	282 24.3	S 4 12.2	N 25	5 38	6 14	18 7	18 43	Alnilam	275 45.1	S 1 11.9
	8	287 40.9	297 24.4	S 4 11.3	N 20	5 37	6 12	18 8	18 43	Alphard	217 54.6	S 8 43.8
	9	302 43.4	312 24.6	S 4 10.3	N 15	5 37	6 11	18 9	18 43	Alpheratz	357 42.6	N 29 10.4
	10	317 45.9	327 24.7	S 4 9.3	N 14	5 37	6 11	18 10	18 44	Altair	62 7.4	N 8 54.4
	11	332 48.3	342 24.9	S 4 8.3	N 13	5 37	6 10	18 10	18 44	Antares	112 24.7	S 26 27.7
	12	347 50.8	357 25.1	S 4 7.3	N 12	5 37	6 10	18 10	18 44	Arcturus	145 54.1	N 19 6.6
	13	2 53.2	12 25.2	S 4 6.4	N 11	5 36	6 10	18 10	18 44	Atria	107 25.4	S 69 2.8
	14	17 55.7	27 25.4	S 4 5.4	N 10	5 36	6 10	18 11	18 44	Avior	234 17.0	S 59 33.9
	15	32 58.2	42 25.5	S 4 4.4	N 9	5 36	6 9	18 11	18 44	Bellatrix	278 30.7	N 6 21.5
	16	48 0.6	57 25.7	S 4 3.4	N 8	5 36	6 9	18 11	18 44	Betelgeuse	271 00.0	N 7 24.3
	17	63 3.1	72 25.9	S 4 2.4	N 7	5 36	6 9	18 11	18 45	Canopus	263 55.5	S 52 42.7
	18	78 5.6	87 26.0	S 4 1.5	N 6	5 35	6 8	18 12	18 45	Capella	280 32.7	N 46 0.8
	19	93 8.0	102 26.2	S 4 0.5	N 5	5 35	6 8	18 12	18 45	Deneb	49 31.0	N 45 20.0
	20	108 10.5	117 26.4	S 3 59.5	N 4	5 35	6 8	18 12	18 45	Denebola	182 32.0	N 14 29.1
	21	123 13.0	132 26.5	S 3 58.5	N 3	5 35	6 8	18 13	18 45	Dubhe	193 49.7	N 61 40.0
	22	138 15.4	147 26.7	S 3 57.5	N 2	5 35	6 7	18 13	18 46	Elnath	278 11.1	N 28 37.1
23	153 17.9	162 26.8	S 3 56.6	N 1	5 34	6 7	18 13	18 46	Eltanin	90 45.7	N 51 29.1	
					0	5 34	6 7	18 13	18 46			
11	0	168 20.4	177 27.0	S 3 55.6	S 1	5 34	6 7	18 14	18 46	Enif	33 46.2	N 9 56.7
	1	183 22.8	192 27.2	S 3 54.6	S 2	5 33	6 6	18 14	18 47	Formalhaut	15 23.2	S 29 32.5
	2	198 25.3	207 27.3	S 3 53.6	S 3	5 33	6 6	18 14	18 47	Gacrux	171 58.9	S 57 11.8
	3	213 27.7	222 27.5	S 3 52.6	S 4	5 33	6 6	18 14	18 47	Hadar	148 45.6	S 60 26.6
	4	228 30.2	237 27.7	S 3 51.7	S 5	5 33	6 6	18 15	18 47	Hamal	327 59.7	N 23 32.0
	5	243 32.7	252 27.8	S 3 50.7	S 6	5 32	6 5	18 15	18 48	Kaus Aust	83 42.3	S 34 22.3
	6	258 35.1	267 28.0	S 3 49.7	S 7	5 32	6 5	18 15	18 48	Kochab	137 19.5	N 74 5.4
	7	273 37.6	282 28.1	S 3 48.7	S 8	5 32	6 5	18 15	18 48	Markab	13 37.5	N 15 17.2
	8	288 40.1	297 28.3	S 3 47.7	S 9	5 31	6 4	18 16	18 49	Menkent	148 5.7	S 36 26.4
	9	303 42.5	312 28.5	S 3 46.8	S 10	5 31	6 4	18 16	18 49	Miaplacidu	221 38.4	S 69 47.1
	10	318 45.0	327 28.6	S 3 45.8	S 11	5 30	6 4	18 16	18 50	Mirfak	308 38.8	N 49 54.9
	11	333 47.5	342 28.8	S 3 44.8	S 12	5 30	6 4	18 16	18 50	Nunki	75 57.0	S 26 16.4
	12	348 49.9	357 29.0	S 3 43.8	S 13	5 29	6 3	18 17	18 50	Peacock	53 17.9	S 56 40.8
	13	3 52.4	12 29.1	S 3 42.8	S 14	5 29	6 3	18 17	18 51	Pollux	243 25.9	N 27 59.2
	14	18 54.9	27 29.3	S 3 41.8	S 15	5 29	6 3	18 17	18 51	Procyon	244 58.1	N 5 11.1
	15	33 57.3	42 29.4	S 3 40.9	S 20	5 26	6 1	18 19	18 54	Rasalhague	96 5.4	N 12 33.0
	16	48 59.8	57 29.6	S 3 39.9	S 25	5 23	5 59	18 20	18 57	Regulus	207 41.9	N 11 53.3
	17	64 2.2	72 29.8	S 3 38.9	S 30	5 19	5 58	18 22	19 0	Rigel	281 10.9	S 8 11.4
	18	79 4.7	87 29.9	S 3 37.9	S 35	5 15	5 55	18 24	19 4	Rigel Kent	139 47.7	S 60 53.8
	19	94 7.2	102 30.1	S 3 36.9	S 40	5 10	5 53	18 26	19 10	Schedar	349 39.6	N 56 37.3
	20	109 9.6	117 30.3	S 3 36.0	S 45	5 3	5 50	18 29	19 16	Shaula	96 20.3	S 37 6.6
	21	124 12.1	132 30.4	S 3 35.0	S 50	4 55	5 47	18 32	19 24	Sirius	258 32.4	S 16 44.3
	22	139 14.6	147 30.6	S 3 34.0	S 55	4 43	5 42	18 36	19 35	Spica	158 29.7	S 11 14.5
23	154 17.0	162 30.8	S 3 33.0	S 60	4 28	5 37	18 42	19 50	Vega	80 38.3	N 38 47.7	
		Sol						Luna				
Día	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día		Porcentaje de iluminación		Fase			
	m s	m s		h m								
10	10 27	10 19	1.0	12 10	18.4		84					
11	10 12	10 4	1.0	12 10	19.3		76					

Tabla G. Jueves 12 de marzo – viernes 13 de marzo de 2015.


Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
		h	° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m	h m	° / ' / "	° / ' / "	° / ' / "	
12	0	169	19.5	177 30.9	S 3 32.0	N 60	5 19	6 24	17 56	19 2	Achernar	335 26.5	S 57 9.8		
	1	184	22.0	192 31.1	S 3 31.0	N 55	5 24	6 21	17 59	18 56	Acruz	173 7.2	S 63 11.0		
	2	199	24.4	207 31.3	S 3 30.1	N 50	5 28	6 19	18 1	18 52	Adhara	255 11.4	S 29 0.0		
	3	214	26.9	222 31.4	S 3 29.1	N 45	5 31	6 17	18 3	18 49	Aldebaran	290 48.1	N 16 32.2		
	4	229	29.3	237 31.6	S 3 28.1	N 40	5 33	6 16	18 4	18 47	Alioth	166 19.3	N 55 52.5		
	5	244	31.8	252 31.8	S 3 27.1	N 35	5 34	6 14	18 5	18 45	Alkaid	152 57.6	N 49 14.1		
	6	259	34.3	267 31.9	S 3 26.1	N 30	5 35	6 13	18 7	18 44	Alnair	27 42.8	S 46 53.1		
	7	274	36.7	282 32.1	S 3 25.1	N 25	5 36	6 12	18 8	18 44	Alnilam	275 45.2	S 1 11.9		
	8	289	39.2	297 32.3	S 3 24.2	N 20	5 36	6 11	18 9	18 44	Alphard	217 54.6	S 8 43.8		
	9	304	41.7	312 32.4	S 3 23.2	N 15	5 36	6 9	18 10	18 44	Alpheratz	357 42.6	N 29 10.4		
	10	319	44.1	327 32.6	S 3 22.2	N 14	5 36	6 9	18 10	18 44	Altair	62 7.4	N 8 54.4		
	11	334	46.6	342 32.8	S 3 21.2	N 13	5 35	6 9	18 10	18 44	Antares	112 24.7	S 26 27.7		
	12	349	49.1	357 32.9	S 3 20.2	N 12	5 35	6 9	18 10	18 44	Arcturus	145 54.1	N 19 6.6		
	13	4	5 15.5	12 33.1	S 3 19.2	N 11	5 35	6 9	18 11	18 44	Atria	107 25.3	S 69 2.8		
	14	19	54.0	27 33.3	S 3 18.3	N 10	5 35	6 8	18 11	18 44	Avior	234 17.0	S 59 33.9		
	15	34	56.5	42 33.4	S 3 17.3	N 9	5 35	6 8	18 11	18 44	Bellatrix	278 30.7	N 6 21.5		
	16	49	58.9	57 33.6	S 3 16.3	N 8	5 35	6 8	18 11	18 44	Betelgeuse	271 00.0	N 7 24.3		
	17	65	1.4	72 33.8	S 3 15.3	N 7	5 35	6 8	18 11	18 44	Canopus	263 55.5	S 52 42.7		
	18	80	3.8	87 33.9	S 3 14.3	N 6	5 35	6 8	18 12	18 44	Capella	280 32.7	N 46 0.8		
	19	95	6.3	102 34.1	S 3 13.3	N 5	5 34	6 7	18 12	18 45	Deneb	49 31.0	N 45 20.0		
	20	110	8.8	117 34.3	S 3 12.4	N 4	5 34	6 7	18 12	18 45	Denebola	182 32.0	N 14 29.1		
	21	125	11.2	132 34.4	S 3 11.4	N 3	5 34	6 7	18 12	18 45	Dubhe	193 49.7	N 61 40.0		
	22	140	13.7	147 34.6	S 3 10.4	N 2	5 34	6 7	18 12	18 45	Elnath	278 11.1	N 28 37.1		
23	155	16.2	162 34.8	S 3 9.4	N 1	5 34	6 7	18 13	18 45	Eltanin	90 45.6	N 51 29.1			
13	0	170	18.6	177 34.9	S 3 8.4	S 1	5 33	6 6	18 13	18 46	Enif	33 46.2	N 9 56.7		
	1	185	21.1	192 35.1	S 3 7.4	S 2	5 33	6 6	18 13	18 46	Formalhaut	15 23.2	S 29 32.5		
	2	200	23.6	207 35.3	S 3 6.5	S 3	5 33	6 6	18 13	18 46	Gacrux	171 58.9	S 57 11.8		
	3	215	26.0	222 35.4	S 3 5.5	S 4	5 33	6 5	18 14	18 46	Hadar	148 45.6	S 60 26.6		
	4	230	28.5	237 35.6	S 3 4.5	S 5	5 32	6 5	18 14	18 47	Hamal	327 59.7	N 23 32.0		
	5	245	31.0	252 35.8	S 3 3.5	S 6	5 32	6 5	18 14	18 47	Kaus Aust	83 42.3	S 34 22.3		
	6	260	33.4	267 35.9	S 3 2.5	S 7	5 32	6 5	18 14	18 47	Kochab	137 19.5	N 74 5.4		
	7	275	35.9	282 36.1	S 3 1.5	S 8	5 31	6 5	18 14	18 47	Markab	13 37.5	N 15 17.2		
	8	290	38.3	297 36.3	S 3 0.5	S 9	5 31	6 4	18 15	18 48	Menkent	148 5.7	S 36 26.4		
	9	305	40.8	312 36.4	S 2 59.6	S 10	5 31	6 4	18 15	18 48	Miaplacidu	221 38.4	S 69 47.1		
	10	320	43.3	327 36.6	S 2 58.6	S 11	5 30	6 4	18 15	18 48	Mirfak	308 38.8	N 49 54.9		
	11	335	45.7	342 36.8	S 2 57.6	S 12	5 30	6 4	18 15	18 49	Nunki	75 57.0	S 26 16.4		
	12	350	48.2	357 37.0	S 2 56.6	S 13	5 30	6 3	18 15	18 49	Peacock	53 17.8	S 56 40.8		
	13	5	50.7	12 37.1	S 2 55.6	S 14	5 29	6 3	18 16	18 49	Pollux	243 25.9	N 27 59.2		
	14	20	53.1	27 37.3	S 2 54.6	S 15	5 29	6 3	18 16	18 50	Procyon	244 58.1	N 5 11.1		
	15	35	55.6	42 37.5	S 2 53.7	S 20	5 27	6 2	18 17	18 52	Rasalhague	96 5.4	N 12 33.0		
	16	50	58.1	57 37.6	S 2 52.7	S 25	5 24	6 0	18 18	18 55	Regulus	207 41.9	N 11 53.3		
	17	66	0.5	72 37.8	S 2 51.7	S 30	5 21	5 59	18 20	18 58	Rigel	281 10.9	S 8 11.4		
	18	81	3.0	87 38.0	S 2 50.7	S 35	5 17	5 57	18 21	19 2	Rigel Kent	139 47.7	S 60 53.8		
	19	96	5.4	102 38.1	S 2 49.7	S 40	5 12	5 55	18 23	19 6	Schedar	349 39.6	N 56 37.2		
	20	111	7.9	117 38.3	S 2 48.7	S 45	5 6	5 53	18 25	19 12	Shaula	96 20.3	S 37 6.6		
	21	126	10.4	132 38.5	S 2 47.7	S 50	4 58	5 50	18 28	19 20	Sirius	258 32.4	S 16 44.3		
	22	141	12.8	147 38.7	S 2 46.8	S 55	4 48	5 46	18 31	19 30	Spica	158 29.7	S 11 14.5		
23	156	15.3	162 38.8	S 2 45.8	S 60	4 34	5 42	18 36	19 43	Vega	80 38.3	N 38 47.7			
		Sol				Luna									
Día	Ecuación del tiempo (00 ^h)		Corr. <i>d</i>	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase						
	m	s		h	m										
12	9	56	1.0	12	10	20.3	67								
13	9	40	1.0	12	10	21.3	57								

Tabla G. Sábado 14 de marzo – domingo 15 de marzo de 2015.


Día	TU	Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas			
		Aries	Sol							Nombre	SHA	Dec.	
		GHA	GHA	Dec.									
		° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m		° / ' / "	° / ' / "	
14	0	171 17.8	177 39.0	S 2 44.8	N 60	5 12	6 18	18 1	19 7	Achernar	335 26.5	S 57 9.8	
	1	186 20.2	192 39.2	S 2 43.8	N 55	5 19	6 16	18 3	19 0	Acrux	173 7.1	S 63 11.0	
	2	201 22.7	207 39.3	S 2 42.8	N 50	5 24	6 15	18 4	18 55	Adhara	255 11.5	S 29 0.0	
	3	216 25.2	222 39.5	S 2 41.8	N 45	5 27	6 13	18 5	18 52	Aldebaran	290 48.1	N 16 32.2	
	4	231 27.6	237 39.7	S 2 40.8	N 40	5 30	6 12	18 6	18 49	Alioth	166 19.3	N 55 52.5	
	5	246 30.1	252 39.9	S 2 39.9	N 35	5 31	6 11	18 7	18 47	Alkaid	152 57.6	N 49 14.1	
	6	261 32.6	267 40.0	S 2 38.9	N 30	5 33	6 10	18 8	18 46	Alnair	27 42.8	S 46 53.1	
	7	276 35.0	282 40.2	S 2 37.9	N 25	5 34	6 10	18 9	18 45	Alnilam	275 45.2	S 1 11.9	
	8	291 37.5	297 40.4	S 2 36.9	N 20	5 34	6 9	18 9	18 44	Alphard	217 54.6	S 8 43.8	
	9	306 39.9	312 40.5	S 2 35.9	N 15	5 34	6 8	18 10	18 44	Alpheratz	357 42.6	N 29 10.4	
	10	321 42.4	327 40.7	S 2 34.9	N 14	5 34	6 8	18 10	18 44	Altair	62 7.4	N 8 54.4	
	11	336 44.9	342 40.9	S 2 33.9	N 13	5 34	6 8	18 10	18 44	Antares	112 24.7	S 26 27.7	
	12	351 47.3	357 41.1	S 2 33.0	N 12	5 34	6 8	18 10	18 44	Arcturus	145 54.1	N 19 6.6	
	13	6 49.8	12 41.2	S 2 32.0	N 11	5 34	6 7	18 11	18 44	Atria	107 25.3	S 69 2.8	
	14	21 52.3	27 41.4	S 2 31.0	N 10	5 34	6 7	18 11	18 44	Avior	234 17.0	S 59 33.9	
	15	36 54.7	42 41.6	S 2 30.0	N 9	5 34	6 7	18 11	18 44	Bellatrix	278 30.7	N 6 21.5	
	16	51 57.2	57 41.7	S 2 29.0	N 8	5 34	6 7	18 11	18 44	Betelgeuse	271 00.0	N 7 24.3	
	17	66 59.7	72 41.9	S 2 28.0	N 7	5 34	6 7	18 11	18 44	Canopus	263 55.5	S 52 42.7	
	18	82 2.1	87 42.1	S 2 27.0	N 6	5 34	6 7	18 11	18 44	Capella	280 32.7	N 46 0.8	
	19	97 4.6	102 42.3	S 2 26.0	N 5	5 34	6 7	18 11	18 44	Deneb	49 30.9	N 45 20.0	
	20	112 7.1	117 42.4	S 2 25.1	N 4	5 34	6 6	18 12	18 44	Denebola	182 32.0	N 14 29.1	
	21	127 9.5	132 42.6	S 2 24.1	N 3	5 33	6 6	18 12	18 45	Dubhe	193 49.7	N 61 40.0	
	22	142 12.0	147 42.8	S 2 23.1	N 2	5 33	6 6	18 12	18 45	Elnath	278 11.1	N 28 37.1	
23	157 14.4	162 43.0	S 2 22.1	N 1	5 33	6 6	18 12	18 45	Eltanin	90 45.6	N 51 29.1		
					0	5 33	6 6	18 12	18 45				
15	0	172 16.9	177 43.1	S 2 21.1	S 1	5 33	6 6	18 12	18 45	Enif	33 46.2	N 9 56.7	
	1	187 19.4	192 43.3	S 2 20.1	S 2	5 33	6 5	18 12	18 45	Formalhaut	15 23.2	S 29 32.5	
	2	202 21.8	207 43.5	S 2 19.1	S 3	5 32	6 5	18 13	18 45	Gacrux	171 58.9	S 57 11.8	
	3	217 24.3	222 43.6	S 2 18.2	S 4	5 32	6 5	18 13	18 46	Hadar	148 45.5	S 60 26.6	
	4	232 26.8	237 43.8	S 2 17.2	S 5	5 32	6 5	18 13	18 46	Hamal	327 59.7	N 23 32.0	
	5	247 29.2	252 44.0	S 2 16.2	S 6	5 32	6 5	18 13	18 46	Kaus Aust	83 42.3	S 34 22.3	
	6	262 31.7	267 44.2	S 2 15.2	S 7	5 32	6 5	18 13	18 46	Kochab	137 19.5	N 74 5.4	
	7	277 34.2	282 44.3	S 2 14.2	S 8	5 31	6 4	18 13	18 46	Markab	13 37.5	N 15 17.2	
	8	292 36.6	297 44.5	S 2 13.2	S 9	5 31	6 4	18 14	18 47	Menkent	148 5.6	S 36 26.5	
	9	307 39.1	312 44.7	S 2 12.2	S 10	5 31	6 4	18 14	18 47	Miaplacidu	221 38.4	S 69 47.2	
	10	322 41.6	327 44.9	S 2 11.2	S 11	5 31	6 4	18 14	18 47	Mirfak	308 38.8	N 49 54.9	
	11	337 44.0	342 45.0	S 2 10.3	S 12	5 30	6 4	18 14	18 47	Nunki	75 57.0	S 26 16.4	
	12	352 46.5	357 45.2	S 2 9.3	S 13	5 30	6 4	18 14	18 48	Peacock	53 17.8	S 56 40.8	
	13	7 48.9	12 45.4	S 2 8.3	S 14	5 30	6 3	18 14	18 48	Pollux	243 25.9	N 27 59.2	
	14	22 51.4	27 45.6	S 2 7.3	S 15	5 29	6 3	18 14	18 48	Procyon	244 58.1	N 5 11.1	
	15	37 53.9	42 45.7	S 2 6.3	S 20	5 27	6 2	18 15	18 50	Rasalhague	96 5.4	N 12 33.0	
	16	52 56.3	57 45.9	S 2 5.3	S 25	5 25	6 1	18 16	18 53	Regulus	207 41.9	N 11 53.3	
	17	67 58.8	72 46.1	S 2 4.3	S 30	5 22	6 0	18 17	18 55	Rigel	281 10.9	S 8 11.4	
	18	83 1.3	87 46.3	S 2 3.3	S 35	5 18	5 59	18 19	18 59	Rigel Kent	139 47.7	S 60 53.8	
	19	98 3.7	102 46.4	S 2 2.4	S 40	5 14	5 57	18 20	19 3	Schedar	349 39.6	N 56 37.2	
	20	113 6.2	117 46.6	S 2 1.4	S 45	5 9	5 55	18 22	19 8	Shaula	96 20.3	S 37 6.6	
	21	128 8.7	132 46.8	S 2 0.4	S 50	5 1	5 53	18 24	19 15	Sirius	258 32.4	S 16 44.3	
	22	143 11.1	147 47.0	S 1 59.4	S 55	4 52	5 50	18 26	19 24	Spica	158 29.7	S 11 14.5	
23	158 13.6	162 47.1	S 1 58.4	S 60	4 39	5 47	18 30	19 37	Vega	80 38.3	N 38 47.7		
		Sol						Luna					
Día	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase				
	m s	m s		h m									
14	9 24	9 16	1.0	12 9		22.3	47						
15	9 7	8 59	1.0	12 9		23.4	36						

Tabla G. Lunes 16 de marzo – martes 17 de marzo de 2015.

Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
		h	° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m	h m	° / ' / "	° / ' / "	° / ' / "	
16	0	173	16.0	177 47.3	S 1 57.4	N 60	5 6	6 12	18 6	19 12	Achernar	335 26.5	S 57 9.8		
	1	188	18.5	192 47.5	S 1 56.4	N 55	5 14	6 11	18 7	19 4	Acruz	173 7.1	S 63 11.0		
	2	203	21.0	207 47.7	S 1 55.4	N 50	5 19	6 10	18 7	18 59	Adhara	255 11.5	S 29 0.0		
	3	218	23.4	222 47.8	S 1 54.5	N 45	5 23	6 10	18 8	18 54	Aldebaran	290 48.1	N 16 32.2		
	4	233	25.9	237 48.0	S 1 53.5	N 40	5 26	6 9	18 8	18 51	Alioth	166 19.3	N 55 52.5		
	5	248	28.4	252 48.2	S 1 52.5	N 35	5 29	6 9	18 9	18 49	Alkaid	152 57.6	N 49 14.1		
	6	263	30.8	267 48.4	S 1 51.5	N 30	5 30	6 8	18 9	18 47	Alnair	27 42.8	S 46 53.1		
	7	278	33.3	282 48.5	S 1 50.5	N 25	5 32	6 8	18 10	18 46	Alnilam	275 45.2	S 1 11.9		
	8	293	35.8	297 48.7	S 1 49.5	N 20	5 32	6 7	18 10	18 45	Alphard	217 54.6	S 8 43.8		
	9	308	38.2	312 48.9	S 1 48.5	N 15	5 33	6 7	18 10	18 44	Alpheratz	357 42.6	N 29 10.4		
	10	323	40.7	327 49.1	S 1 47.5	N 14	5 33	6 7	18 10	18 44	Altair	62 7.4	N 8 54.4		
	11	338	43.2	342 49.2	S 1 46.5	N 13	5 33	6 6	18 11	18 44	Antares	112 24.7	S 26 27.7		
	12	353	45.6	357 49.4	S 1 45.6	N 12	5 33	6 6	18 11	18 44	Arcturus	145 54.1	N 19 6.6		
	13	8	48.1	12 49.6	S 1 44.6	N 11	5 33	6 6	18 11	18 44	Atria	107 25.3	S 69 2.8		
	14	23	50.5	27 49.8	S 1 43.6	N 10	5 33	6 6	18 11	18 44	Avior	234 17.1	S 59 33.9		
	15	38	53.0	42 50.0	S 1 42.6	N 9	5 33	6 6	18 11	18 44	Bellatrix	278 30.7	N 6 21.5		
	16	53	55.5	57 50.1	S 1 41.6	N 8	5 33	6 6	18 11	18 44	Betelgeuse	271 00.0	N 7 24.3		
	17	68	57.9	72 50.3	S 1 40.6	N 7	5 33	6 6	18 11	18 44	Canopus	263 55.5	S 52 42.7		
	18	84	0.4	87 50.5	S 1 39.6	N 6	5 33	6 6	18 11	18 44	Capella	280 32.7	N 46 0.8		
	19	99	2.9	102 50.7	S 1 38.6	N 5	5 33	6 6	18 11	18 44	Deneb	49 30.9	N 45 20.0		
	20	114	5.3	117 50.8	S 1 37.7	N 4	5 33	6 6	18 11	18 44	Denebola	182 32.0	N 14 29.1		
	21	129	7.8	132 51.0	S 1 36.7	N 3	5 33	6 6	18 11	18 44	Dubhe	193 49.7	N 61 40.1		
	22	144	10.3	147 51.2	S 1 35.7	N 2	5 33	6 5	18 11	18 44	Elnath	278 11.1	N 28 37.1		
23	159	12.7	162 51.4	S 1 34.7	N 1	5 33	6 5	18 12	18 44	Eltanin	90 45.6	N 51 29.1			
17	0	174	15.2	177 51.6	S 1 33.7	S 1	5 32	6 5	18 12	18 44	Enif	33 46.2	N 9 56.7		
	1	189	17.7	192 51.7	S 1 32.7	S 2	5 32	6 5	18 12	18 45	Formalhaut	15 23.1	S 29 32.5		
	2	204	20.1	207 51.9	S 1 31.7	S 3	5 32	6 5	18 12	18 45	Gacrux	171 58.9	S 57 11.8		
	3	219	22.6	222 52.1	S 1 30.7	S 4	5 32	6 5	18 12	18 45	Hadar	148 45.5	S 60 26.6		
	4	234	25.0	237 52.3	S 1 29.7	S 5	5 32	6 5	18 12	18 45	Hamal	327 59.7	N 23 32.0		
	5	249	27.5	252 52.4	S 1 28.8	S 6	5 32	6 5	18 12	18 45	Kaus Aust	83 42.3	S 34 22.3		
	6	264	30.0	267 52.6	S 1 27.8	S 7	5 31	6 4	18 12	18 45	Kochab	137 19.4	N 74 5.4		
	7	279	32.4	282 52.8	S 1 26.8	S 8	5 31	6 4	18 12	18 45	Markab	13 37.5	N 15 17.2		
	8	294	34.9	297 53.0	S 1 25.8	S 9	5 31	6 4	18 12	18 46	Menkent	148 5.6	S 36 26.5		
	9	309	37.4	312 53.2	S 1 24.8	S 10	5 31	6 4	18 13	18 46	Miaplacidu	221 38.4	S 69 47.2		
	10	324	39.8	327 53.3	S 1 23.8	S 11	5 31	6 4	18 13	18 46	Mirfak	308 38.9	N 49 54.9		
	11	339	42.3	342 53.5	S 1 22.8	S 12	5 30	6 4	18 13	18 46	Nunki	75 56.9	S 26 16.4		
	12	354	44.8	357 53.7	S 1 21.8	S 13	5 30	6 4	18 13	18 46	Peacock	53 17.8	S 56 40.8		
	13	9	47.2	12 53.9	S 1 20.8	S 14	5 30	6 4	18 13	18 47	Pollux	243 25.9	N 27 59.2		
	14	24	49.7	27 54.0	S 1 19.9	S 15	5 30	6 4	18 13	18 47	Procyon	244 58.2	N 5 11.1		
	15	39	52.1	42 54.2	S 1 18.9	S 20	5 28	6 3	18 14	18 49	Rasalhague	96 5.4	N 12 33.0		
	16	54	54.6	57 54.4	S 1 17.9	S 25	5 26	6 2	18 14	18 50	Regulus	207 41.9	N 11 53.3		
	17	69	57.1	72 54.6	S 1 16.9	S 30	5 23	6 1	18 15	18 53	Rigel	281 10.9	S 8 11.4		
	18	84	59.5	87 54.8	S 1 15.9	S 35	5 20	6 0	18 16	18 56	Rigel Kent	139 47.7	S 60 53.8		
	19	100	2.0	102 54.9	S 1 14.9	S 40	5 16	5 59	18 17	19 0	Schedar	349 39.6	N 56 37.2		
	20	115	4.5	117 55.1	S 1 13.9	S 45	5 11	5 58	18 18	19 5	Shaula	96 20.3	S 37 6.6		
	21	130	6.9	132 55.3	S 1 12.9	S 50	5 5	5 56	18 19	19 11	Sirius	258 32.4	S 16 44.3		
	22	145	9.4	147 55.5	S 1 12.0	S 55	4 56	5 54	18 21	19 19	Spica	158 29.7	S 11 14.5		
23	160	11.9	162 55.7	S 1 11.0	S 60	4 45	5 52	18 24	19 30	Vega	80 38.3	N 38 47.7			
		Sol				Luna									
Día	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día		Porcentaje de iluminación		Fase					
	m	s		h m											
16	8	50	1.0	12 9		24.6		26							
17	8	34	1.0	12 8		25.7		16							

Tabla G. Miércoles 18 de marzo – jueves 19 de marzo de 2015.

Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
18	h	° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m	h m	h m	h m	Nombre	° / ' / "	° / ' / "
	0	175 14.3	177 55.8	S 1 10.0	N 60	5 0	6 6	18 11	19 17	Achernar	335 26.5	S 57 9.8			
	1	190 16.8	192 56.0	S 1 9.0	N 55	5 9	6 6	18 11	19 8	Acrux	173 7.1	S 63 11.0			
	2	205 19.3	207 56.2	S 1 8.0	N 50	5 15	6 6	18 11	19 2	Adhara	255 11.5	S 29 0.0			
	3	220 21.7	222 56.4	S 1 7.0	N 45	5 20	6 6	18 10	18 57	Aldebaran	290 48.1	N 16 32.2			
	4	235 24.2	237 56.6	S 1 6.0	N 40	5 23	6 6	18 10	18 53	Alioth	166 19.2	N 55 52.5			
	5	250 26.6	252 56.7	S 1 5.0	N 35	5 26	6 6	18 10	18 50	Alkaid	152 57.6	N 49 14.1			
	6	265 29.1	267 56.9	S 1 4.0	N 30	5 28	6 6	18 10	18 48	Alnair	27 42.8	S 46 53.1			
	7	280 31.6	282 57.1	S 1 3.1	N 25	5 29	6 6	18 10	18 47	Alnilam	275 45.2	S 1 11.9			
	8	295 34.0	297 57.3	S 1 2.1	N 20	5 31	6 5	18 11	18 45	Alphard	217 54.6	S 8 43.8			
	9	310 36.5	312 57.5	S 1 1.1	N 15	5 31	6 5	18 11	18 45	Alpheratz	357 42.6	N 29 10.4			
	10	325 39.0	327 57.6	S 1 0.1	N 14	5 31	6 5	18 11	18 44	Altair	62 7.4	N 8 54.4			
	11	340 41.4	342 57.8	N 0 59.1	N 13	5 32	6 5	18 11	18 44	Antares	112 24.6	S 26 27.7			
	12	355 43.9	357 58.0	N 0 58.1	N 12	5 32	6 5	18 11	18 44	Arcturus	145 54.1	N 19 6.6			
	13	10 46.4	12 58.2	N 0 57.1	N 11	5 32	6 5	18 11	18 44	Atria	107 25.2	S 69 2.8			
	14	25 48.8	27 58.4	N 0 56.1	N 10	5 32	6 5	18 11	18 44	Avior	234 17.1	S 59 33.9			
	15	40 51.3	42 58.5	N 0 55.1	N 9	5 32	6 5	18 11	18 44	Bellatrix	278 30.8	N 6 21.5			
	16	55 53.8	57 58.7	N 0 54.2	N 8	5 32	6 5	18 11	18 44	Betelgeuse	271 0.0	N 7 24.3			
	17	70 56.2	72 58.9	N 0 53.2	N 7	5 32	6 5	18 11	18 44	Canopus	263 55.5	S 52 47.7			
	18	85 58.7	87 59.1	N 0 52.2	N 6	5 32	6 5	18 11	18 44	Capella	280 32.8	N 46 0.8			
	19	101 1.1	102 59.3	N 0 51.2	N 5	5 32	6 5	18 11	18 44	Deneb	49 30.9	N 45 20.0			
	20	116 3.6	117 59.4	N 0 50.2	N 4	5 32	6 5	18 11	18 44	Denebola	182 32.0	N 14 29.1			
	21	131 6.1	132 59.6	N 0 49.2	N 3	5 32	6 5	18 11	18 44	Dubhe	193 49.7	N 61 40.1			
22	146 8.5	147 59.8	N 0 48.2	N 2	5 32	6 5	18 11	18 44	Elnath	278 11.1	N 28 37.1				
23	161 11.0	163 00.0	N 0 47.2	N 1	5 32	6 5	18 11	18 44	Eltanin	90 45.6	N 51 29.1				
19	0	176 13.5	178 0.2	N 0 46.2	S 1	5 32	6 5	18 11	18 44	Enif	33 46.2	N 9 56.7			
	1	191 15.9	193 0.3	N 0 45.3	S 2	5 32	6 5	18 11	18 44	Formalhaut	15 23.1	S 29 32.5			
	2	206 18.4	208 0.5	N 0 44.3	S 3	5 32	6 5	18 11	18 44	Gacrux	171 58.9	S 57 11.9			
	3	221 20.9	223 0.7	N 0 43.3	S 4	5 32	6 4	18 11	18 44	Hadar	148 45.5	S 60 26.6			
	4	236 23.3	238 0.9	N 0 42.3	S 5	5 32	6 4	18 11	18 44	Hamal	327 59.7	N 23 32.0			
	5	251 25.8	253 1.1	N 0 41.3	S 6	5 31	6 4	18 11	18 44	Kaus Aust	83 42.3	S 34 22.3			
	6	266 28.2	268 1.3	N 0 40.3	S 7	5 31	6 4	18 11	18 44	Kochab	137 19.4	N 74 5.4			
	7	281 30.7	283 1.4	N 0 39.3	S 8	5 31	6 4	18 11	18 44	Markab	13 37.4	N 15 17.2			
	8	296 33.2	298 1.6	N 0 38.3	S 9	5 31	6 4	18 11	18 45	Menkent	148 5.6	S 36 26.5			
	9	311 35.6	313 1.8	N 0 37.3	S 10	5 31	6 4	18 11	18 45	Miaplacidu	221 38.5	S 69 47.2			
	10	326 38.1	328 2.0	N 0 36.4	S 11	5 31	6 4	18 11	18 45	Mirfak	308 38.9	N 49 54.9			
	11	341 40.6	343 2.2	N 0 35.4	S 12	5 31	6 4	18 11	18 45	Nunki	75 56.9	S 26 16.4			
	12	356 43.0	358 2.3	N 0 34.4	S 13	5 30	6 4	18 12	18 45	Peacock	53 17.8	S 56 40.8			
	13	11 45.5	13 2.5	N 0 33.4	S 14	5 30	6 4	18 12	18 45	Pollux	243 25.9	N 27 59.2			
	14	26 48.0	28 2.7	N 0 32.4	S 15	5 30	6 4	18 12	18 46	Procyon	244 58.2	N 5 11.1			
	15	41 50.4	43 2.9	N 0 31.4	S 20	5 29	6 3	18 12	18 47	Rasalhague	96 5.3	N 12 33.0			
	16	56 52.9	58 3.1	N 0 30.4	S 25	5 27	6 3	18 12	18 48	Regulus	207 41.9	N 11 53.3			
	17	71 55.4	73 3.3	N 0 29.4	S 30	5 25	6 3	18 13	18 50	Rigel	281 11.0	S 8 11.4			
	18	86 57.8	88 3.4	N 0 28.4	S 35	5 22	6 2	18 13	18 53	Rigel Kent	139 47.6	S 60 53.8			
	19	102 0.3	103 3.6	N 0 27.5	S 40	5 18	6 1	18 14	18 56	Schedar	349 39.6	N 56 37.2			
	20	117 2.7	118 3.8	N 0 26.5	S 45	5 14	6 1	18 14	19 1	Shaula	96 20.2	S 37 6.6			
	21	132 5.2	133 4.0	N 0 25.5	S 50	5 8	6 0	18 15	19 6	Sirius	258 32.4	S 16 44.3			
	22	147 7.7	148 4.2	N 0 24.5	S 55	5 0	5 58	18 16	19 14	Spica	158 29.7	S 11 14.5			
23	162 10.1	163 4.4	N 0 23.5	S 60	4 50	5 57	18 18	19 24	Vega	80 38.3	N 38 47.7				
Día	Sol				Luna										
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día	Porcentaje de iluminación	Fase								
	m s	m s		h m											
18	8 16	8 8	1.0	12 8	26.8	8									
19	7 59	7 50	1.0	12 8	27.9	3									

Tabla G. Viernes 20 de marzo – sábado 21 de marzo de 2015.


Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas			
		GHA	GHA	Dec.	Nombre	SHA	Dec.									
20	h	° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m							
	0	177 12.6	178 4.5	N 0 22.5	N 60	4 54	6 0	18 16	19 23	Achernar	335 26.5	S 57 9.8				
	1	192 15.1	193 4.7	N 0 21.5	N 55	5 3	6 1	18 15	19 12	Acruz	173 7.1	S 63 11.0				
	2	207 17.5	208 4.9	N 0 20.5	N 50	5 10	6 2	18 14	19 5	Adhara	255 11.5	S 29 0.0				
	3	222 20.0	223 5.1	N 0 19.5	N 45	5 16	6 2	18 13	19 0	Aldebaran	290 48.1	N 16 32.2				
	4	237 22.5	238 5.3	N 0 18.6	N 40	5 20	6 3	18 12	18 55	Alioth	166 19.2	N 55 52.5				
	5	252 24.9	253 5.5	N 0 17.6	N 35	5 23	6 3	18 12	18 52	Alkaid	152 57.5	N 49 14.1				
	6	267 27.4	268 5.6	N 0 16.6	N 30	5 25	6 3	18 12	18 50	Alnair	27 42.7	S 46 53.1				
	7	282 29.9	283 5.8	N 0 15.6	N 25	5 27	6 4	18 11	18 48	Alnilam	275 45.2	S 1 11.9				
	8	297 32.3	298 6.0	N 0 14.6	N 20	5 29	6 4	18 11	18 46	Alphard	217 54.7	S 8 43.8				
	9	312 34.8	313 6.2	N 0 13.6	N 15	5 30	6 4	18 11	18 45	Alpheratz	357 42.6	N 29 10.4				
	10	327 37.2	328 6.4	N 0 12.6	N 14	5 30	6 4	18 11	18 45	Altair	62 7.3	N 8 54.4				
	11	342 39.7	343 6.6	N 0 11.6	N 13	5 30	6 4	18 11	18 44	Antares	112 24.6	S 26 27.7				
	12	357 42.2	358 6.7	N 0 10.6	N 12	5 30	6 4	18 11	18 44	Arcturus	145 54.1	N 19 6.6				
	13	12 44.6	13 6.9	N 0 9.7	N 11	5 31	6 4	18 11	18 44	Atria	107 25.2	S 69 2.8				
	14	27 47.1	28 7.1	N 0 8.7	N 10	5 31	6 4	18 11	18 44	Avior	234 17.1	S 59 33.9				
	15	42 49.6	43 7.3	N 0 7.7	N 9	5 31	6 4	18 11	18 44	Bellatrix	278 30.8	N 6 21.5				
	16	57 52.0	58 7.5	N 0 6.7	N 8	5 31	6 4	18 11	18 44	Betelgeuse	271 0.0	N 7 24.3				
	17	72 54.5	73 7.7	N 0 5.7	N 7	5 31	6 4	18 11	18 44	Canopus	263 55.6	S 52 42.7				
	18	87 57.0	88 7.8	N 0 4.7	N 6	5 31	6 4	18 11	18 43	Capella	280 32.8	N 46 0.8				
	19	102 59.4	103 8.0	N 0 3.7	N 5	5 31	6 4	18 11	18 43	Deneb	49 30.9	N 45 20.0				
	20	118 1.9	118 8.2	N 0 2.7	N 4	5 31	6 4	18 11	18 43	Denebola	182 32.0	N 14 29.1				
	21	133 4.3	133 8.4	N 0 1.8	N 3	5 31	6 4	18 10	18 43	Dubhe	193 49.7	N 61 40.1				
22	148 6.8	148 8.6	N 0 0.8	N 2	5 31	6 4	18 10	18 43	Elnath	278 11.2	N 28 37.1					
23	163 9.3	163 8.8	N 0 0.2	N 1	5 31	6 4	18 10	18 43	Eltanin	90 45.6	N 51 29.1					
21	0	178 11.7	178 8.9	N 0 1.2	S 1	5 31	6 4	18 10	18 43	Enif	33 46.2	N 9 56.7				
	1	193 14.2	193 9.1	N 0 2.2	S 2	5 31	6 4	18 10	18 43	Formalhaut	15 23.1	S 29 32.5				
	2	208 16.7	208 9.3	N 0 3.2	S 3	5 31	6 4	18 10	18 43	Gacrux	171 58.9	S 57 11.9				
	3	223 19.1	223 9.5	N 0 4.2	S 4	5 31	6 4	18 10	18 43	Hadar	148 45.5	S 60 26.6				
	4	238 21.6	238 9.7	N 0 5.2	S 5	5 31	6 4	18 10	18 43	Hamal	327 59.7	N 23 31.9				
	5	253 24.1	253 9.9	N 0 6.2	S 6	5 31	6 4	18 10	18 43	Kaus Aust	83 42.2	S 34 22.3				
	6	268 26.5	268 10.0	N 0 7.1	S 7	5 31	6 4	18 10	18 43	Kochab	137 19.4	N 74 5.4				
	7	283 29.0	283 10.2	N 0 8.1	S 8	5 31	6 4	18 10	18 43	Markab	13 37.4	N 15 17.2				
	8	298 31.5	298 10.4	N 0 9.1	S 9	5 31	6 4	18 10	18 43	Menkent	148 5.6	S 36 26.5				
	9	313 33.9	313 10.6	N 0 10.1	S 10	5 31	6 4	18 10	18 43	Miaplacidu	221 38.5	S 69 47.2				
	10	328 36.4	328 10.8	N 0 11.1	S 11	5 31	6 4	18 10	18 44	Mirfak	308 38.9	N 49 54.9				
	11	343 38.8	343 11.0	N 0 12.1	S 12	5 31	6 4	18 10	18 44	Nunki	75 56.9	S 26 16.4				
	12	358 41.3	358 11.2	N 0 13.1	S 13	5 30	6 4	18 10	18 44	Peacock	53 17.8	S 56 40.8				
	13	13 43.8	13 11.3	N 0 14.1	S 14	5 30	6 4	18 10	18 44	Pollux	243 26.0	N 27 59.2				
	14	28 46.2	28 11.5	N 0 15.0	S 15	5 30	6 4	18 10	18 44	Procyon	244 58.2	N 5 11.1				
	15	43 48.7	43 11.7	N 0 16.0	S 20	5 29	6 4	18 10	18 45	Rasalhague	96 5.3	N 12 33.0				
	16	58 51.2	58 11.9	N 0 17.0	S 25	5 28	6 4	18 10	18 46	Regulus	207 41.9	N 11 53.3				
	17	73 53.6	73 12.1	N 0 18.0	S 30	5 26	6 4	18 10	18 48	Rigel	281 11.0	S 8 11.4				
	18	88 56.1	88 12.3	N 0 19.0	S 35	5 24	6 4	18 10	18 50	Rigel Kent	139 47.6	S 60 53.8				
	19	103 58.6	103 12.5	N 0 20.0	S 40	5 21	6 3	18 10	18 53	Schedar	349 39.6	N 56 37.2				
	20	119 1.0	118 12.6	N 0 21.0	S 45	5 17	6 3	18 10	18 57	Shaula	96 20.2	S 37 6.6				
	21	134 3.5	133 12.8	N 0 22.0	S 50	5 11	6 3	18 11	19 2	Sirius	258 32.5	S 16 44.3				
	22	149 6.0	148 13.0	N 0 22.9	S 55	5 5	6 2	18 11	19 8	Spica	158 29.7	S 11 14.5				
23	164 8.4	163 13.2	N 0 23.9	S 60	4 55	6 2	18 11	19 18	Vega	80 38.3	N 38 47.7					
Día	Sol				Luna											
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día	Porcentaje de iluminación		Fase								
20	m s	m s		h m												
21	7 42	7 33	1.0	12 8	29.1	0										
	7 24	7 15	1.0	12 7	0.6	0										

Tabla G. Domingo 22 de marzo – lunes 23 de marzo de 2015.


Día	TU	Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.						Nombre	SHA	Dec.
22	h	° /	° /	° /	°	h m	h m	h m	h m		° /	° /
	0	179 10.9	178 13.4	N 0 24.9	N 60	4 47	5 54	18 21	19 28	Achernar	335 26.6	S 57 9.8
	1	194 13.3	193 13.6	N 0 25.9	N 55	4 58	5 56	18 19	19 17	Acrux	173 7.1	S 63 11.0
	2	209 15.8	208 13.7	N 0 26.9	N 50	5 6	5 57	18 17	19 8	Adhara	255 11.5	S 29 0.0
	3	224 18.3	223 13.9	N 0 27.9	N 45	5 12	5 58	18 16	19 2	Aldebaran	290 48.1	N 16 32.2
	4	239 20.7	238 14.1	N 0 28.9	N 40	5 17	5 59	18 15	18 58	Alioth	166 19.2	N 55 52.5
	5	254 23.2	253 14.3	N 0 29.9	N 35	5 20	6 0	18 14	18 54	Alkaid	152 57.5	N 49 14.1
	6	269 25.7	268 14.5	N 0 30.8	N 30	5 23	6 1	18 13	18 51	Alnair	27 42.7	S 46 53.1
	7	284 28.1	283 14.7	N 0 31.8	N 25	5 25	6 1	18 12	18 48	Alnilam	275 45.2	S 1 11.9
	8	299 30.6	298 14.9	N 0 32.8	N 20	5 27	6 2	18 12	18 47	Alphard	217 54.7	S 8 43.8
	9	314 33.1	313 15.0	N 0 33.8	N 15	5 28	6 2	18 11	18 45	Alpheratz	357 42.6	N 29 10.4
	10	329 35.5	328 15.2	N 0 34.8	N 14	5 29	6 2	18 11	18 45	Altair	62 7.3	N 8 54.4
	11	344 38.0	343 15.4	N 0 35.8	N 13	5 29	6 3	18 11	18 45	Antares	112 24.6	S 26 27.7
	12	359 40.5	358 15.6	N 0 36.8	N 12	5 29	6 3	18 11	18 44	Arcturus	145 54.1	N 19 6.6
	13	14 42.9	13 15.8	N 0 37.8	N 11	5 29	6 3	18 11	18 44	Atria	107 25.2	S 69 2.8
	14	29 45.4	28 16.0	N 0 38.7	N 10	5 30	6 3	18 11	18 44	Avior	234 17.1	S 59 34.0
	15	44 47.8	43 16.2	N 0 39.7	N 9	5 30	6 3	18 11	18 44	Bellatrix	278 30.8	N 6 21.5
	16	59 50.3	58 16.4	N 0 40.7	N 8	5 30	6 3	18 10	18 44	Betelgeuse	271 0.0	N 7 24.3
	17	74 52.8	73 16.5	N 0 41.7	N 7	5 30	6 3	18 10	18 43	Canopus	263 55.6	S 52 42.7
	18	89 55.2	88 16.7	N 0 42.7	N 6	5 30	6 3	18 10	18 43	Capella	280 32.8	N 46 0.8
	19	104 57.7	103 16.9	N 0 43.7	N 5	5 30	6 3	18 10	18 43	Deneb	49 30.9	N 45 20.0
	20	120 0.2	118 17.1	N 0 44.7	N 4	5 30	6 3	18 10	18 43	Denebola	182 32.0	N 14 29.1
	21	135 2.6	133 17.3	N 0 45.7	N 3	5 30	6 3	18 10	18 43	Dubhe	193 49.7	N 61 40.1
22	150 5.1	148 17.5	N 0 46.6	N 2	5 31	6 3	18 10	18 43	Elnath	278 11.2	N 28 37.1	
23	165 7.6	163 17.7	N 0 47.6	N 1	5 31	6 3	18 10	18 43	Eltanin	90 45.5	N 51 29.1	
23	0	180 10.0	178 17.8	N 0 48.6	S 1	5 31	6 4	18 10	18 42	Enif	33 46.2	N 9 56.7
	1	195 12.5	193 18.0	N 0 49.6	S 2	5 31	6 4	18 10	18 42	Formalhaut	15 23.1	S 29 32.4
	2	210 14.9	208 18.2	N 0 50.6	S 3	5 31	6 4	18 10	18 42	Gacrux	171 58.9	S 57 11.9
	3	225 17.4	223 18.4	N 0 51.6	S 4	5 31	6 4	18 10	18 42	Hadar	148 45.5	S 60 26.6
	4	240 19.9	238 18.6	N 0 52.6	S 5	5 31	6 4	18 9	18 42	Hamal	327 59.7	N 23 31.9
	5	255 22.3	253 18.8	N 0 53.5	S 6	5 31	6 4	18 9	18 42	Kaus Aust	83 42.2	S 34 22.3
	6	270 24.8	268 19.0	N 0 54.5	S 7	5 31	6 4	18 9	18 42	Kochab	137 19.3	N 74 5.4
	7	285 27.3	283 19.1	N 0 55.5	S 8	5 31	6 4	18 9	18 42	Markab	13 37.4	N 15 17.2
	8	300 29.7	298 19.3	N 0 56.5	S 9	5 31	6 4	18 9	18 42	Menkent	148 5.6	S 36 26.5
	9	315 32.2	313 19.5	N 0 57.5	S 10	5 31	6 4	18 9	18 42	Miaplacidu	221 38.5	S 69 47.2
	10	330 34.7	328 19.7	N 0 58.5	S 11	5 31	6 4	18 9	18 42	Mirfak	308 38.9	N 49 54.9
	11	345 37.1	343 19.9	N 0 59.5	S 12	5 31	6 4	18 9	18 42	Nunki	75 56.9	S 26 16.4
	12	0 39.6	358 20.1	N 1 0.4	S 13	5 31	6 4	18 9	18 42	Peacock	53 17.7	S 56 40.8
	13	15 42.1	13 20.3	N 1 1.4	S 14	5 31	6 4	18 9	18 43	Pollux	243 26.0	N 27 59.2
	14	30 44.5	28 20.5	N 1 2.4	S 15	5 30	6 4	18 9	18 43	Procyon	244 58.2	N 5 11.1
	15	45 47.0	43 20.6	N 1 3.4	S 20	5 30	6 5	18 8	18 43	Rasalhague	96 5.3	N 12 33.0
	16	60 49.4	58 20.8	N 1 4.4	S 25	5 29	6 5	18 8	18 44	Regulus	207 41.9	N 11 53.4
	17	75 51.9	73 21.0	N 1 5.4	S 30	5 27	6 5	18 8	18 46	Rigel	281 11.0	S 8 11.4
	18	90 54.4	88 21.2	N 1 6.4	S 35	5 25	6 5	18 7	18 47	Rigel Kent	139 47.6	S 60 53.9
	19	105 56.8	103 21.4	N 1 7.3	S 40	5 23	6 6	18 7	18 50	Schedar	349 39.6	N 56 37.2
	20	120 59.3	118 21.6	N 1 8.3	S 45	5 19	6 6	18 7	18 53	Shaula	96 20.2	S 37 6.6
	21	136 1.8	133 21.8	N 1 9.3	S 50	5 15	6 6	18 6	18 57	Sirius	258 32.5	S 16 44.3
	22	151 4.2	148 22.0	N 1 10.3	S 55	5 9	6 6	18 6	19 3	Spica	158 29.7	S 11 14.5
23	166 6.7	163 22.1	N 1 11.3	S 60	5 0	6 6	18 5	19 11	Vega	80 38.2	N 38 47.7	
Día	Sol				Luna							
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día	Porcentaje de iluminación		Fase				
22	m s	m s		h m								
23	7 6	6 57	1.0	12 7	1.7	3						
	6 48	6 39	1.0	12 7	2.8	9						

Tabla G. Martes 24 de marzo – miércoles 25 de marzo de 2015.

Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
24	h	° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m	Nombre	° / ' / "	° / ' / "			
	0	181 9.2	178 22.3	N 1 12.3	N 60	4 41	5 48	18 26	19 33	Achernar	335 26.6	S 57 9.8			
	1	196 11.6	193 22.5	N 1 13.3	N 55	4 53	5 51	18 22	19 21	Acruz	173 7.1	S 63 11.0			
	2	211 14.1	208 22.7	N 1 14.2	N 50	5 1	5 53	18 20	19 12	Adhara	255 11.5	S 29 0.0			
	3	226 16.6	223 22.9	N 1 15.2	N 45	5 8	5 55	18 18	19 5	Aldebaran	290 48.1	N 16 32.2			
	4	241 19.0	238 23.1	N 1 16.2	N 40	5 13	5 56	18 17	19 0	Alioth	166 19.2	N 55 52.5			
	5	256 21.5	253 23.3	N 1 17.2	N 35	5 17	5 57	18 15	18 55	Alkaid	152 57.5	N 49 14.1			
	6	271 23.9	268 23.5	N 1 18.2	N 30	5 21	5 58	18 14	18 52	Alnair	27 42.7	S 46 53.0			
	7	286 26.4	283 23.6	N 1 19.2	N 25	5 23	5 59	18 13	18 49	Alnilam	275 45.2	S 1 11.9			
	8	301 28.9	298 23.8	N 1 20.2	N 20	5 25	6 0	18 12	18 47	Alphard	217 54.7	S 8 43.8			
	9	316 31.3	313 24.0	N 1 21.1	N 15	5 27	6 1	18 11	18 45	Alpheratz	357 42.6	N 29 10.4			
	10	331 33.8	328 24.2	N 1 22.1	N 14	5 27	6 1	18 11	18 45	Altair	62 7.3	N 8 54.4			
	11	346 36.3	343 24.4	N 1 23.1	N 13	5 28	6 1	18 11	18 45	Antares	112 24.6	S 26 27.7			
	12	1 38.7	358 24.6	N 1 24.1	N 12	5 28	6 1	18 11	18 44	Arcturus	145 54.1	N 19 6.6			
	13	16 41.2	13 24.8	N 1 25.1	N 11	5 28	6 1	18 11	18 44	Atria	107 25.1	S 69 2.8			
	14	31 43.7	28 25.0	N 1 26.1	N 10	5 28	6 2	18 11	18 44	Avior	234 17.1	S 59 34.0			
	15	46 46.1	43 25.1	N 1 27.0	N 9	5 29	6 2	18 10	18 44	Bellatrix	278 30.8	N 6 21.5			
	16	61 48.6	58 25.3	N 1 28.0	N 8	5 29	6 2	18 10	18 43	Betelgeuse	271 0.0	N 7 24.3			
	17	76 51.0	73 25.5	N 1 29.0	N 7	5 29	6 2	18 10	18 43	Canopus	263 55.6	S 52 42.7			
	18	91 53.5	88 25.7	N 1 30.0	N 6	5 29	6 2	18 10	18 43	Capella	280 32.8	N 46 0.8			
	19	106 56.0	103 25.9	N 1 31.0	N 5	5 29	6 2	18 10	18 43	Deneb	49 30.9	N 45 20.0			
	20	121 58.4	118 26.1	N 1 32.0	N 4	5 30	6 2	18 10	18 43	Denebola	182 32.0	N 14 29.1			
	21	137 0.9	133 26.3	N 1 33.0	N 3	5 30	6 2	18 10	18 42	Dubhe	193 49.7	N 61 40.1			
22	152 3.4	148 26.5	N 1 33.9	N 2	5 30	6 3	18 9	18 42	Elnath	278 11.2	N 28 37.1				
23	167 5.8	163 26.6	N 1 34.9	N 1	5 30	6 3	18 9	18 42	Eltanin	90 45.5	N 51 29.1				
25	0	182 8.3	178 26.8	N 1 35.9	S 1	5 30	6 3	18 9	18 42	Enif	33 46.2	N 9 56.7			
	1	197 10.8	193 27.0	N 1 36.9	S 2	5 30	6 3	18 9	18 42	Formalhaut	15 23.1	S 29 32.4			
	2	212 13.2	208 27.2	N 1 37.9	S 3	5 30	6 3	18 9	18 42	Gacrux	171 58.9	S 57 11.9			
	3	227 15.7	223 27.4	N 1 38.9	S 4	5 30	6 3	18 9	18 42	Hadar	148 45.5	S 60 26.6			
	4	242 18.2	238 27.6	N 1 39.8	S 5	5 31	6 3	18 9	18 41	Hamal	327 59.7	N 23 31.9			
	5	257 20.6	253 27.8	N 1 40.8	S 6	5 31	6 4	18 8	18 41	Kaus Aust	83 42.2	S 34 22.3			
	6	272 23.1	268 28.0	N 1 41.8	S 7	5 31	6 4	18 8	18 41	Kochab	137 19.3	N 74 5.4			
	7	287 25.5	283 28.1	N 1 42.8	S 8	5 31	6 4	18 8	18 41	Markab	13 37.4	N 15 17.2			
	8	302 28.0	298 28.3	N 1 43.8	S 9	5 31	6 4	18 8	18 41	Menkent	148 5.6	S 36 26.5			
	9	317 30.5	313 28.5	N 1 44.8	S 10	5 31	6 4	18 8	18 41	Miaplacidu	221 38.5	S 69 47.2			
	10	332 32.9	328 28.7	N 1 45.7	S 11	5 31	6 4	18 8	18 41	Mirfak	308 38.9	N 49 54.8			
	11	347 35.4	343 28.9	N 1 46.7	S 12	5 31	6 4	18 8	18 41	Nunki	75 56.9	S 26 16.4			
	12	2 37.9	358 29.1	N 1 47.7	S 13	5 31	6 4	18 8	18 41	Peacock	53 17.7	S 56 40.8			
	13	17 40.3	13 29.3	N 1 48.7	S 14	5 31	6 4	18 7	18 41	Pollux	243 26.0	N 27 59.2			
	14	32 42.8	28 29.5	N 1 49.7	S 15	5 31	6 5	18 7	18 41	Procyon	244 58.2	N 5 11.1			
	15	47 45.3	43 29.7	N 1 50.7	S 20	5 30	6 5	18 7	18 41	Rasalhague	96 5.3	N 12 33.0			
	16	62 47.7	58 29.8	N 1 51.6	S 25	5 30	6 6	18 6	18 42	Regulus	207 41.9	N 11 53.4			
	17	77 50.2	73 30.0	N 1 52.6	S 30	5 28	6 6	18 5	18 43	Rigel	281 11.0	S 8 11.4			
	18	92 52.7	88 30.2	N 1 53.6	S 35	5 27	6 7	18 5	18 45	Rigel Kent	139 47.6	S 60 53.9			
	19	107 55.1	103 30.4	N 1 54.6	S 40	5 25	6 8	18 4	18 47	Schedar	349 39.6	N 56 37.2			
	20	122 57.6	118 30.6	N 1 55.6	S 45	5 22	6 8	18 3	18 49	Shaula	96 20.2	S 37 6.6			
	21	138 0.0	133 30.8	N 1 56.6	S 50	5 18	6 9	18 2	18 53	Sirius	258 32.5	S 16 44.3			
	22	153 2.5	148 31.0	N 1 57.5	S 55	5 13	6 10	18 1	18 58	Spica	158 29.6	S 11 14.5			
23	168 5.0	163 31.2	N 1 58.5	S 60	5 5	6 11	17 59	19 5	Vega	80 38.2	N 38 47.7				
Día	Sol				Luna										
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día	Porcentaje de iluminación	Fase								
24	m s	m s		h m											
25	6 30	6 21	1.0	12 6	3.9	17									
	6 12	6 3	1.0	12 6	5.0	26									



Tabla G. Jueves 26 de marzo – viernes 27 de marzo de 2015.


Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
26	h	° /	° /	° /	°	h m	h m	h m	h m	Nombre	° /	° /			
	0	183 7.4	178 31.3	N 1 59.5	N 60	4 34	5 42	18 31	19 38	Achernar	335 26.6	S 57 9.8			
	1	198 9.9	193 31.5	N 2 0.5	N 55	4 47	5 46	18 26	19 25	Acrux	173 7.1	S 63 11.1			
	2	213 12.4	208 31.7	N 2 1.5	N 50	4 57	5 49	18 23	19 15	Adhara	255 11.5	S 29 0.0			
	3	228 14.8	223 31.9	N 2 2.4	N 45	5 4	5 51	18 21	19 8	Aldebaran	290 48.2	N 16 32.2			
	4	243 17.3	238 32.1	N 2 3.4	N 40	5 10	5 53	18 19	19 2	Alioth	166 19.2	N 55 52.6			
	5	258 19.8	253 32.3	N 2 4.4	N 35	5 14	5 55	18 17	18 57	Alkaid	152 57.5	N 49 14.1			
	6	273 22.2	268 32.5	N 2 5.4	N 30	5 18	5 56	18 15	18 53	Alnair	27 42.7	S 46 53.0			
	7	288 24.7	283 32.7	N 2 6.4	N 25	5 21	5 57	18 14	18 50	Alnilam	275 45.2	S 1 11.9			
	8	303 27.1	298 32.9	N 2 7.4	N 20	5 23	5 58	18 13	18 48	Alphard	217 54.7	S 8 43.8			
	9	318 29.6	313 33.0	N 2 8.3	N 15	5 26	5 59	18 12	18 46	Alpheratz	357 42.6	N 29 10.4			
	10	333 32.1	328 33.2	N 2 9.3	N 14	5 26	6 0	18 11	18 45	Altair	62 7.3	N 8 54.4			
	11	348 34.5	343 33.4	N 2 10.3	N 13	5 26	6 0	18 11	18 45	Antares	112 24.6	S 26 27.7			
	12	3 37.0	358 33.6	N 2 11.3	N 12	5 27	6 0	18 11	18 45	Arcturus	145 54.1	N 19 6.6			
	13	18 39.5	13 33.8	N 2 12.3	N 11	5 27	6 0	18 11	18 44	Atria	107 25.1	S 69 2.9			
	14	33 41.9	28 34.0	N 2 13.2	N 10	5 27	6 0	18 11	18 44	Avior	234 17.1	S 59 34.0			
	15	48 44.4	43 34.2	N 2 14.2	N 9	5 27	6 1	18 10	18 44	Bellatrix	278 30.8	N 6 21.5			
	16	63 46.9	58 34.4	N 2 15.2	N 8	5 28	6 1	18 10	18 43	Betelgeuse	271 0.0	N 7 24.3			
	17	78 49.3	73 34.6	N 2 16.2	N 7	5 28	6 1	18 10	18 43	Canopus	263 55.6	S 52 4.8			
	18	93 51.8	88 34.7	N 2 17.2	N 6	5 28	6 1	18 10	18 43	Capella	280 32.8	N 46 0.8			
	19	108 54.3	103 34.9	N 2 18.1	N 5	5 28	6 1	18 10	18 42	Deneb	49 30.8	N 45 20.0			
	20	123 56.7	118 35.1	N 2 19.1	N 4	5 29	6 2	18 9	18 42	Denebola	182 32.0	N 14 29.1			
	21	138 59.2	133 35.3	N 2 20.1	N 3	5 29	6 2	18 9	18 42	Dubhe	193 49.7	N 61 40.1			
22	154 1.6	148 35.5	N 2 21.1	N 2	5 29	6 2	18 9	18 42	Elnath	278 11.2	N 28 37.1				
23	169 4.1	163 35.7	N 2 22.1	N 1	5 29	6 2	18 9	18 42	Eltanin	90 45.5	N 51 29.1				
27	0	184 6.6	178 35.9	N 2 23.0	S 1	5 30	6 2	18 8	18 41	Enif	33 46.2	N 9 56.7			
	1	199 9.0	193 36.1	N 2 24.0	S 2	5 30	6 3	18 8	18 41	Formalhaut	15 23.1	S 29 32.4			
	2	214 11.5	208 36.3	N 2 25.0	S 3	5 30	6 3	18 8	18 41	Gacrux	171 58.9	S 57 11.9			
	3	229 14.0	223 36.4	N 2 26.0	S 4	5 30	6 3	18 8	18 41	Hadar	148 45.4	S 60 26.6			
	4	244 16.4	238 36.6	N 2 27.0	S 5	5 30	6 3	18 8	18 41	Hamal	327 59.7	N 23 31.9			
	5	259 18.9	253 36.8	N 2 27.9	S 6	5 30	6 3	18 8	18 40	Kaus Aust	83 42.2	S 34 22.3			
	6	274 21.4	268 37.0	N 2 28.9	S 7	5 30	6 3	18 7	18 40	Kochab	137 19.3	N 74 5.5			
	7	289 23.8	283 37.2	N 2 29.9	S 8	5 31	6 4	18 7	18 40	Markab	13 37.4	N 15 17.2			
	8	304 26.3	298 37.4	N 2 30.9	S 9	5 31	6 4	18 7	18 40	Menkent	148 5.6	S 36 26.5			
	9	319 28.8	313 37.6	N 2 31.9	S 10	5 31	6 4	18 7	18 40	Miaplacidu	221 38.6	S 69 47.2			
	10	334 31.2	328 37.8	N 2 32.8	S 11	5 31	6 4	18 7	18 40	Mirfak	308 38.9	N 49 54.8			
	11	349 33.7	343 38.0	N 2 33.8	S 12	5 31	6 4	18 6	18 40	Nunki	75 56.9	S 26 16.4			
	12	4 36.1	358 38.1	N 2 34.8	S 13	5 31	6 4	18 6	18 40	Peacock	53 17.7	S 56 40.8			
	13	19 38.6	13 38.3	N 2 35.8	S 14	5 31	6 5	18 6	18 40	Pollux	243 26.0	N 27 59.2			
	14	34 41.1	28 38.5	N 2 36.8	S 15	5 31	6 5	18 6	18 40	Procyon	244 58.2	N 5 11.1			
	15	49 43.5	43 38.7	N 2 37.7	S 20	5 31	6 6	18 5	18 40	Rasalhague	96 5.3	N 12 33.0			
	16	64 46.0	58 38.9	N 2 38.7	S 25	5 30	6 7	18 4	18 40	Regulus	207 41.9	N 11 53.4			
	17	79 48.5	73 39.1	N 2 39.7	S 30	5 30	6 7	18 3	18 41	Rigel	281 11.0	S 8 11.4			
	18	94 50.9	88 39.3	N 2 40.7	S 35	5 28	6 8	18 2	18 42	Rigel Kent	139 47.6	S 60 53.9			
	19	109 53.4	103 39.5	N 2 41.6	S 40	5 27	6 10	18 1	18 43	Schedar	349 39.6	N 56 37.2			
	20	124 55.9	118 39.7	N 2 42.6	S 45	5 24	6 11	17 59	18 46	Shaula	96 20.2	S 37 6.6			
	21	139 58.3	133 39.8	N 2 43.6	S 50	5 21	6 12	17 58	18 49	Sirius	258 32.5	S 16 44.3			
	22	155 0.8	148 40.0	N 2 44.6	S 55	5 17	6 14	17 56	18 53	Spica	158 29.6	S 11 14.5			
23	170 3.2	163 40.2	N 2 45.6	S 60	5 10	6 16	17 53	18 59	Vega	80 38.2	N 38 47.7				
Día	Sol				Luna										
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día	Porcentaje de iluminación		Fase							
26	m s	m s	1.0	h m	6.1	36									
27	5 54	5 45	1.0	12 6	7.1	46									

Tabla G. Sábado 28 de marzo – domingo 29 de marzo de 2015.


Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas			
		GHA	GHA	Dec.	Nombre	SHA	Dec.									
28	h	° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m							
	0	185 5.7	178 40.4	N 2 46.5	N 60	4 28	5 36	18 35	19 44	Achernar	335 26.6	S 57 9.8				
	1	200 8.2	193 40.6	N 2 47.5	N 55	4 42	5 41	18 30	19 29	Acrux	173 7.1	S 63 11.1				
	2	215 10.6	208 40.8	N 2 48.5	N 50	4 52	5 44	18 26	19 18	Adhara	255 11.5	S 29 0.0				
	3	230 13.1	223 41.0	N 2 49.5	N 45	5 0	5 47	18 23	19 10	Aldebaran	290 48.2	N 16 32.2				
	4	245 15.6	238 41.2	N 2 50.4	N 40	5 6	5 50	18 21	19 4	Alioth	166 19.2	N 55 52.6				
	5	260 18.0	253 41.4	N 2 51.4	N 35	5 11	5 52	18 18	18 59	Alkaid	152 57.5	N 49 14.1				
	6	275 20.5	268 41.5	N 2 52.4	N 30	5 16	5 54	18 17	18 55	Alnair	27 42.7	S 46 53.0				
	7	290 23.0	283 41.7	N 2 53.4	N 25	5 19	5 55	18 15	18 51	Alnilam	275 45.2	S 1 11.9				
	8	305 25.4	298 41.9	N 2 54.4	N 20	5 22	5 57	18 13	18 48	Alphard	217 54.7	S 8 43.8				
	9	320 27.9	313 42.1	N 2 55.3	N 15	5 24	5 58	18 12	18 46	Alpheratz	357 42.6	N 29 10.4				
	10	335 30.4	328 42.3	N 2 56.3	N 14	5 24	5 58	18 12	18 45	Altair	62 7.3	N 8 54.4				
	11	350 32.8	343 42.5	N 2 57.3	N 13	5 25	5 59	18 11	18 45	Antares	112 24.6	S 26 27.7				
	12	5 35.3	358 42.7	N 2 58.3	N 12	5 25	5 59	18 11	18 45	Arcturus	145 54.1	N 19 6.6				
	13	20 37.7	13 42.9	N 2 59.2	N 11	5 26	5 59	18 11	18 44	Atria	107 25.0	S 69 2.9				
	14	35 40.2	28 43.1	N 3 0.2	N 10	5 26	5 59	18 10	18 44	Avior	234 17.2	S 59 34.0				
	15	50 42.7	43 43.2	N 3 1.2	N 9	5 26	6 0	18 10	18 43	Bellatrix	278 30.8	N 6 21.5				
	16	65 45.1	58 43.4	N 3 2.2	N 8	5 27	6 0	18 10	18 43	Betelgeuse	271 0.1	N 7 24.3				
	17	80 47.6	73 43.6	N 3 3.1	N 7	5 27	6 0	18 10	18 43	Canopus	263 55.6	S 52 42.8				
	18	95 50.1	88 43.8	N 3 4.1	N 6	5 27	6 0	18 9	18 42	Capella	280 32.8	N 46 0.8				
	19	110 52.5	103 44.0	N 3 5.1	N 5	5 28	6 0	18 9	18 42	Deneb	49 30.8	N 45 20.0				
	20	125 55.0	118 44.2	N 3 6.1	N 4	5 28	6 1	18 9	18 42	Denebola	182 32.0	N 14 29.1				
	21	140 57.5	133 44.4	N 3 7.0	N 3	5 28	6 1	18 9	18 42	Dubhe	193 49.7	N 61 40.1				
22	155 59.9	148 44.6	N 3 8.0	N 2	5 28	6 1	18 8	18 41	Elnath	278 11.2	N 28 37.1					
23	171 2.4	163 44.8	N 3 9.0	N 1	5 29	6 1	18 8	18 41	Eltanin	90 45.5	N 51 29.1					
29	0	186 4.9	178 44.9	N 3 10.0	S 1	5 29	6 2	18 8	18 41	Enif	33 46.2	N 9 56.7				
	1	201 7.3	193 45.1	N 3 10.9	S 2	5 29	6 2	18 8	18 40	Formalhaut	15 23.1	S 29 32.4				
	2	216 9.8	208 45.3	N 3 11.9	S 3	5 29	6 2	18 7	18 40	Gacrux	171 58.9	S 57 11.9				
	3	231 12.2	223 45.5	N 3 12.9	S 4	5 30	6 3	18 7	18 40	Hadar	148 45.4	S 60 26.6				
	4	246 14.7	238 45.7	N 3 13.9	S 5	5 30	6 3	18 7	18 40	Hamal	327 59.7	N 23 31.9				
	5	261 17.2	253 45.9	N 3 14.8	S 6	5 30	6 3	18 7	18 40	Kaus Aust	83 42.2	S 34 22.3				
	6	276 19.6	268 46.1	N 3 15.8	S 7	5 30	6 3	18 6	18 39	Kochab	137 19.3	N 74 5.5				
	7	291 22.1	283 46.3	N 3 16.8	S 8	5 30	6 3	18 6	18 39	Markab	13 37.4	N 15 17.2				
	8	306 24.6	298 46.4	N 3 17.8	S 9	5 31	6 4	18 6	18 39	Menkent	148 5.6	S 36 26.5				
	9	321 27.0	313 46.6	N 3 18.7	S 10	5 31	6 4	18 6	18 39	Miaplacidu	221 38.6	S 69 47.2				
	10	336 29.5	328 46.8	N 3 19.7	S 11	5 31	6 4	18 5	18 39	Mirfak	308 38.9	N 49 54.8				
	11	351 32.0	343 47.0	N 3 20.7	S 12	5 31	6 4	18 5	18 39	Nunki	75 56.9	S 26 16.4				
	12	6 34.4	358 47.2	N 3 21.7	S 13	5 31	6 5	18 5	18 39	Peacock	53 17.7	S 56 40.8				
	13	21 36.9	13 47.4	N 3 22.6	S 14	5 31	6 5	18 5	18 38	Pollux	243 26.0	N 27 59.2				
	14	36 39.4	28 47.6	N 3 23.6	S 15	5 31	6 5	18 4	18 38	Procyon	244 58.2	N 5 11.1				
	15	51 41.8	43 47.8	N 3 24.6	S 20	5 31	6 6	18 3	18 38	Rasalhague	96 5.3	N 12 33.0				
	16	66 44.3	58 48.0	N 3 25.6	S 25	5 31	6 7	18 2	18 38	Regulus	207 41.9	N 11 53.4				
	17	81 46.7	73 48.1	N 3 26.5	S 30	5 31	6 9	18 1	18 38	Rigel	281 11.0	S 8 11.4				
	18	96 49.2	88 48.3	N 3 27.5	S 35	5 30	6 10	17 59	18 39	Rigel Kent	139 47.5	S 60 53.9				
	19	111 51.7	103 48.5	N 3 28.5	S 40	5 29	6 12	17 57	18 40	Schedar	349 39.6	N 56 37.2				
	20	126 54.1	118 48.7	N 3 29.5	S 45	5 27	6 13	17 56	18 42	Shaula	96 20.1	S 37 6.6				
	21	141 56.6	133 48.9	N 3 30.4	S 50	5 24	6 15	17 53	18 44	Sirius	258 32.5	S 16 44.3				
	22	156 59.1	148 49.1	N 3 31.4	S 55	5 21	6 18	17 51	18 48	Spica	158 29.6	S 11 14.5				
23	172 1.5	163 49.3	N 3 32.4	S 60	5 15	6 21	17 47	18 53	Vega	80 38.2	N 38 47.7					
Día	Sol				Luna											
	Ecuación del tiempo (00 ^h)		Corr. <i>d</i>	Paso por el meridiano	Edad día	Porcentaje de iluminación		Fase								
28	m s	m s		h m												
29	5 18	5 9	1.0	12 5	8.1	56										
	5 0	4 51	1.0	12 5	9.1	66										

Tabla G. Lunes 30 de marzo – martes 31 de marzo de 2015.


Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
30	h	° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m	h m	h m	h m			
	0	187 4.0	178 49.5	N 3 33.3	N 60	4 21	5 30	18 40	19 49	Achernar	335 26.6	S 57 9.7			
	1	202 6.5	193 49.7	N 3 34.3	N 55	4 37	5 35	18 34	19 33	Acrux	173 7.1	S 63 11.1			
	2	217 8.9	208 49.8	N 3 35.3	N 50	4 48	5 40	18 30	19 22	Adhara	255 11.5	S 29 0.0			
	3	232 11.4	223 50.0	N 3 36.3	N 45	4 56	5 43	18 26	19 13	Aldebaran	290 48.2	N 16 32.2			
	4	247 13.8	238 50.2	N 3 37.2	N 40	5 3	5 46	18 23	19 6	Alioth	166 19.2	N 55 52.6			
	5	262 16.3	253 50.4	N 3 38.2	N 35	5 9	5 49	18 20	19 1	Alkaid	152 57.5	N 49 14.2			
	6	277 18.8	268 50.6	N 3 39.2	N 30	5 13	5 51	18 18	18 56	Alnair	27 42.7	S 46 53.0			
	7	292 21.2	283 50.8	N 3 40.2	N 25	5 17	5 53	18 16	18 52	Alnilam	275 45.2	S 1 11.9			
	8	307 23.7	298 51.0	N 3 41.1	N 20	5 20	5 55	18 14	18 49	Alphard	217 54.7	S 8 43.8			
	9	322 26.2	313 51.2	N 3 42.1	N 15	5 23	5 57	18 12	18 46	Alpheratz	357 42.6	N 29 10.4			
	10	337 28.6	328 51.3	N 3 43.1	N 14	5 23	5 57	18 12	18 46	Altair	62 7.3	N 8 54.4			
	11	352 31.1	343 51.5	N 3 44.0	N 13	5 23	5 57	18 11	18 45	Antares	112 24.6	S 26 27.7			
	12	7 33.6	358 51.7	N 3 45.0	N 12	5 24	5 58	18 11	18 45	Arcturus	145 54.0	N 19 6.6			
	13	22 36.0	13 51.9	N 3 46.0	N 11	5 24	5 58	18 11	18 44	Atria	107 25.0	S 69 2.9			
	14	37 38.5	28 52.1	N 3 46.9	N 10	5 25	5 58	18 10	18 44	Avior	234 17.2	S 59 34.0			
	15	52 41.0	43 52.3	N 3 47.9	N 9	5 25	5 58	18 10	18 43	Bellatrix	278 30.8	N 6 21.5			
	16	67 43.4	58 52.5	N 3 48.9	N 8	5 26	5 59	18 10	18 43	Betelgeuse	271 0.1	N 7 24.3			
	17	82 45.9	73 52.7	N 3 49.9	N 7	5 26	5 59	18 10	18 43	Canopus	263 55.7	S 52 42.7			
	18	97 48.3	88 52.9	N 3 50.8	N 6	5 26	5 59	18 9	18 42	Capella	280 32.8	N 46 0.8			
	19	112 50.8	103 53.0	N 3 51.8	N 5	5 27	6 0	18 9	18 42	Deneb	49 30.8	N 45 20.0			
	20	127 53.3	118 53.2	N 3 52.8	N 4	5 27	6 0	18 9	18 42	Denebola	182 32.0	N 14 29.1			
	21	142 55.7	133 53.4	N 3 53.7	N 3	5 27	6 0	18 8	18 41	Dubhe	193 49.7	N 61 40.1			
22	157 58.2	148 53.6	N 3 54.7	N 2	5 28	6 0	18 8	18 41	Elnath	278 11.2	N 28 37.1				
23	173 0.7	163 53.8	N 3 55.7	N 1	5 28	6 1	18 8	18 41	Eltanin	90 45.5	N 51 29.1				
31	0	188 3.1	178 54.0	N 3 56.7	S 1	5 28	6 1	18 7	18 40	Enif	33 46.1	N 9 56.7			
	1	203 5.6	193 54.2	N 3 57.6	S 2	5 29	6 2	18 7	18 40	Formalhaut	15 23.1	S 29 32.4			
	2	218 8.1	208 54.4	N 3 58.6	S 3	5 29	6 2	18 7	18 39	Gacrux	171 58.9	S 57 11.9			
	3	233 10.5	223 54.5	N 3 59.6	S 4	5 29	6 2	18 6	18 39	Hadar	148 45.4	S 60 26.7			
	4	248 13.0	238 54.7	N 4 0.5	S 5	5 30	6 2	18 6	18 39	Hamal	327 59.7	N 23 31.9			
	5	263 15.5	253 54.9	N 4 1.5	S 6	5 30	6 3	18 6	18 39	Kaus Aust	83 42.2	S 34 22.3			
	6	278 17.9	268 55.1	N 4 2.5	S 7	5 30	6 3	18 5	18 38	Kochab	137 19.2	N 74 5.5			
	7	293 20.4	283 55.3	N 4 3.4	S 8	5 30	6 3	18 5	18 38	Markab	13 37.4	N 15 17.2			
	8	308 22.8	298 55.5	N 4 4.4	S 9	5 30	6 4	18 5	18 38	Menkent	148 5.6	S 36 26.5			
	9	323 25.3	313 55.7	N 4 5.4	S 10	5 31	6 4	18 4	18 38	Miaplacidu	221 38.6	S 69 47.2			
	10	338 27.8	328 55.9	N 4 6.3	S 11	5 31	6 4	18 4	18 38	Mirfak	308 38.9	N 49 54.8			
	11	353 30.2	343 56.0	N 4 7.3	S 12	5 31	6 4	18 4	18 37	Nunki	75 56.8	S 26 16.4			
	12	8 32.7	358 56.2	N 4 8.3	S 13	5 31	6 5	18 4	18 37	Peacock	53 17.6	S 56 40.8			
	13	23 35.2	13 56.4	N 4 9.2	S 14	5 31	6 5	18 3	18 37	Pollux	243 26.0	N 27 59.2			
	14	38 37.6	28 56.6	N 4 10.2	S 15	5 31	6 5	18 3	18 37	Procyon	244 58.2	N 5 11.1			
	15	53 40.1	43 56.8	N 4 11.2	S 20	5 32	6 7	18 1	18 36	Rasalhague	96 5.3	N 12 33.0			
	16	68 42.6	58 57.0	N 4 12.1	S 25	5 32	6 8	18 0	18 36	Regulus	207 41.9	N 11 53.4			
	17	83 45.0	73 57.2	N 4 13.1	S 30	5 32	6 10	17 58	18 36	Rigel	281 11.0	S 8 11.4			
	18	98 47.5	88 57.4	N 4 14.1	S 35	5 32	6 12	17 56	18 36	Rigel Kent	139 47.5	S 60 53.9			
	19	113 49.9	103 57.5	N 4 15.0	S 40	5 31	6 14	17 54	18 37	Schedar	349 39.6	N 56 37.2			
	20	128 52.4	118 57.7	N 4 16.0	S 45	5 29	6 16	17 52	18 38	Shaula	96 20.1	S 37 6.6			
	21	143 54.9	133 57.9	N 4 17.0	S 50	5 27	6 19	17 49	18 40	Sirius	258 32.5	S 16 44.3			
	22	158 57.3	148 58.1	N 4 17.9	S 55	5 24	6 22	17 46	18 43	Spica	158 29.6	S 11 14.5			
23	173 59.8	163 58.3	N 4 18.9	S 60	5 20	6 26	17 41	18 47	Vega	80 38.2	N 38 47.7				
Día	Sol							Luna							
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano			Edad día	Porcentaje de iluminación		Fase					
	m s	m s		h m											
30	4 42	4 33	1.0	12 5			10.0	75							
31	4 24	4 15	1.0	12 4			10.9	82							

Tabla G. Miércoles 1 de abril – jueves 2 de abril de 2015.


Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
1	h	° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m	Nombre	° / ' / "	° / ' / "			
	0	189 2.3	178 58.5	N 4 19.9	N 60	4 14	5 24	18 45	19 55	Achernar	335 26.6	S 57 9.7			
	1	204 4.7	193 58.7	N 4 20.8	N 55	4 31	5 30	18 38	19 38	Acruz	173 7.1	S 63 11.1			
	2	219 7.2	208 58.9	N 4 21.8	N 50	4 43	5 36	18 33	19 25	Adhara	255 11.6	S 29 0.0			
	3	234 9.7	223 59.0	N 4 22.8	N 45	4 52	5 40	18 28	19 16	Aldebaran	290 48.2	N 16 32.2			
	4	249 12.1	238 59.2	N 4 23.7	N 40	5 0	5 43	18 25	19 8	Alioth	166 19.2	N 55 52.6			
	5	264 14.6	253 59.4	N 4 24.7	N 35	5 6	5 46	18 22	19 2	Alkaid	152 57.5	N 49 14.2			
	6	279 17.1	268 59.6	N 4 25.7	N 30	5 11	5 49	18 19	18 57	Alnair	27 42.7	S 46 53.0			
	7	294 19.5	283 59.8	N 4 26.6	N 25	5 15	5 51	18 17	18 53	Alnilam	275 45.2	S 1 11.9			
	8	309 22.0	299 00.0	N 4 27.6	N 20	5 18	5 53	18 14	18 49	Alphard	217 54.7	S 8 43.8			
	9	324 24.4	314 0.2	N 4 28.6	N 15	5 21	5 55	18 12	18 46	Alpheratz	357 42.6	N 29 10.4			
	10	339 26.9	329 0.3	N 4 29.5	N 14	5 22	5 56	18 12	18 46	Altair	62 7.3	N 8 54.4			
	11	354 29.4	344 0.5	N 4 30.5	N 13	5 22	5 56	18 12	18 45	Antares	112 24.5	S 26 27.8			
	12	9 31.8	359 0.7	N 4 31.5	N 12	5 23	5 56	18 11	18 45	Arcturus	145 54.0	N 19 6.6			
	13	24 34.3	14 0.9	N 4 32.4	N 11	5 23	5 57	18 11	18 44	Atria	107 25.0	S 69 2.9			
	14	39 36.8	29 1.1	N 4 33.4	N 10	5 24	5 57	18 10	18 44	Avior	234 17.2	S 59 34.0			
	15	54 39.2	44 1.3	N 4 34.4	N 9	5 24	5 57	18 10	18 43	Bellatrix	278 30.8	N 6 21.5			
	16	69 41.7	59 1.5	N 4 35.3	N 8	5 24	5 58	18 10	18 43	Betelgeuse	271 0.1	N 7 24.3			
	17	84 44.2	74 1.7	N 4 36.3	N 7	5 25	5 58	18 9	18 42	Canopus	263 55.7	S 52 42.7			
	18	99 46.6	89 1.8	N 4 37.3	N 6	5 25	5 58	18 9	18 42	Capella	280 32.8	N 46 0.8			
	19	114 49.1	104 2.0	N 4 38.2	N 5	5 26	5 59	18 9	18 42	Deneb	49 30.8	N 45 20.0			
	20	129 51.6	119 2.2	N 4 39.2	N 4	5 26	5 59	18 8	18 41	Denebola	182 32.0	N 14 29.1			
	21	144 54.0	134 2.4	N 4 40.1	N 3	5 27	5 59	18 8	18 41	Dubhe	193 49.7	N 61 40.1			
22	159 56.5	149 2.6	N 4 41.1	N 2	5 27	6 0	18 8	18 40	Elnath	278 11.2	N 28 37.1				
23	174 58.9	164 2.8	N 4 42.1	N 1	5 27	6 0	18 7	18 40	Eltanin	90 45.4	N 51 29.1				
2	0	190 1.4	179 3.0	N 4 43.0	S 1	5 28	6 0	18 7	18 40	Enif	33 46.1	N 9 56.7			
	1	205 3.9	194 3.1	N 4 44.0	S 2	5 28	6 1	18 6	18 39	Formalhaut	15 23.1	S 29 32.4			
	2	220 6.3	209 3.3	N 4 45.0	S 3	5 29	6 1	18 6	18 39	Gacrux	171 58.9	S 57 11.9			
	3	235 8.8	224 3.5	N 4 45.9	S 4	5 29	6 2	18 5	18 38	Hadar	148 45.4	S 60 26.7			
	4	250 11.3	239 3.7	N 4 46.9	S 5	5 29	6 2	18 5	18 38	Hamal	327 59.7	N 23 31.9			
	5	265 13.7	254 3.9	N 4 47.8	S 6	5 29	6 2	18 5	18 38	Kaus Aust	83 42.1	S 34 22.3			
	6	280 16.2	269 4.1	N 4 48.8	S 7	5 30	6 3	18 4	18 37	Kochab	137 19.2	N 74 5.5			
	7	295 18.7	284 4.3	N 4 49.8	S 8	5 30	6 3	18 4	18 37	Markab	13 37.4	N 15 17.2			
	8	310 21.1	299 4.4	N 4 50.7	S 9	5 30	6 4	18 4	18 37	Menkent	148 5.6	S 36 26.5			
	9	325 23.6	314 4.6	N 4 51.7	S 10	5 30	6 4	18 3	18 37	Miaplacidu	221 38.6	S 69 47.2			
	10	340 26.0	329 4.8	N 4 52.7	S 11	5 31	6 4	18 3	18 36	Mirfak	308 38.9	N 49 54.8			
	11	355 28.5	344 5.0	N 4 53.6	S 12	5 31	6 4	18 3	18 36	Nunki	75 56.8	S 26 16.4			
	12	10 31.0	359 5.2	N 4 54.6	S 13	5 31	6 5	18 2	18 36	Peacock	53 17.6	S 56 40.8			
	13	25 33.4	14 5.4	N 4 55.5	S 14	5 31	6 5	18 2	18 36	Pollux	243 26.0	N 27 59.2			
	14	40 35.9	29 5.6	N 4 56.5	S 15	5 32	6 5	18 2	18 36	Procyon	244 58.2	N 5 11.1			
	15	55 38.4	44 5.7	N 4 57.5	S 20	5 32	6 7	18 0	18 35	Rasalhague	96 5.2	N 12 33.0			
	16	70 40.8	59 5.9	N 4 58.4	S 25	5 33	6 9	17 58	18 34	Regulus	207 41.9	N 11 53.4			
	17	85 43.3	74 6.1	N 4 59.4	S 30	5 33	6 11	17 56	18 34	Rigel	281 11.0	S 8 11.4			
	18	100 45.8	89 6.3	N 5 0.3	S 35	5 33	6 13	17 53	18 33	Rigel Kent	139 47.5	S 60 53.9			
	19	115 48.2	104 6.5	N 5 1.3	S 40	5 33	6 16	17 51	18 34	Schedar	349 39.6	N 56 37.2			
	20	130 50.7	119 6.7	N 5 2.3	S 45	5 32	6 18	17 48	18 34	Shaula	96 20.1	S 37 6.6			
	21	145 53.2	134 6.9	N 5 3.2	S 50	5 31	6 22	17 45	18 36	Sirius	258 32.5	S 16 44.3			
	22	160 55.6	149 7.0	N 5 4.2	S 55	5 28	6 26	17 41	18 38	Spica	158 29.6	S 11 14.5			
23	175 58.1	164 7.2	N 5 5.1	S 60	5 25	6 31	17 35	18 41	Vega	80 38.2	N 38 47.7				
Día	Sol				Luna										
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día	Porcentaje de iluminación		Fase							
1	m s	m s		h m											
2	4 6	3 57	1.0	12 4	11.8	89									
	3 48	3 39	1.0	12 4	12.6	94									

Tabla G. Viernes 3 de abril – sábado 4 de abril de 2015.


Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
3	h	° /	° /	° /	°	h m	h m	h m	h m						
	0	191 0.5	179 7.4	N 5 6.1	N 60	4 8	5 18	18 50	20 0	Achernar	335 26.6	S 57 9.7			
	1	206 3.0	194 7.6	N 5 7.1	N 55	4 26	5 25	18 42	19 42	Acrux	173 7.1	S 63 11.1			
	2	221 5.5	209 7.8	N 5 8.0	N 50	4 39	5 31	18 36	19 29	Adhara	255 11.6	S 29 0.0			
	3	236 7.9	224 8.0	N 5 9.0	N 45	4 49	5 36	18 31	19 19	Aldebaran	290 48.2	N 16 32.2			
	4	251 10.4	239 8.1	N 5 9.9	N 40	4 56	5 40	18 27	19 10	Alioth	166 19.2	N 55 52.6			
	5	266 12.9	254 8.3	N 5 10.9	N 35	5 3	5 43	18 23	19 4	Alkaid	152 57.5	N 49 14.2			
	6	281 15.3	269 8.5	N 5 11.8	N 30	5 8	5 46	18 20	18 59	Alnair	27 42.7	S 46 53.0			
	7	296 17.8	284 8.7	N 5 12.8	N 25	5 13	5 49	18 17	18 54	Alnilam	275 45.3	S 1 11.9			
	8	311 20.3	299 8.9	N 5 13.8	N 20	5 16	5 51	18 15	18 50	Alphard	217 54.7	S 8 43.8			
	9	326 22.7	314 9.1	N 5 14.7	N 15	5 20	5 54	18 13	18 47	Alpheratz	357 42.6	N 29 10.4			
	10	341 25.2	329 9.3	N 5 15.7	N 14	5 20	5 54	18 12	18 46	Altair	62 7.3	N 8 54.4			
	11	356 27.7	344 9.4	N 5 16.6	N 13	5 21	5 55	18 12	18 46	Antares	112 24.5	S 26 27.8			
	12	11 30.1	359 9.6	N 5 17.6	N 12	5 21	5 55	18 11	18 45	Arcturus	145 54.0	N 19 6.6			
	13	26 32.6	14 9.8	N 5 18.6	N 11	5 22	5 55	18 11	18 44	Atria	107 25.0	S 69 2.9			
	14	41 35.0	29 10.0	N 5 19.5	N 10	5 22	5 56	18 10	18 44	Avior	234 17.2	S 59 34.0			
	15	56 37.5	44 10.2	N 5 20.5	N 9	5 23	5 56	18 10	18 43	Bellatrix	278 30.8	N 6 21.5			
	16	71 40.0	59 10.4	N 5 21.4	N 8	5 23	5 57	18 10	18 43	Betelgeuse	271 0.1	N 7 24.3			
	17	86 42.4	74 10.5	N 5 22.4	N 7	5 24	5 57	18 9	18 42	Canopus	263 55.7	S 52 47.8			
	18	101 44.9	89 10.7	N 5 23.3	N 6	5 24	5 57	18 9	18 42	Capella	280 32.9	N 46 0.7			
	19	116 47.4	104 10.9	N 5 24.3	N 5	5 25	5 58	18 8	18 41	Deneb	49 30.8	N 45 19.9			
	20	131 49.8	119 11.1	N 5 25.2	N 4	5 25	5 58	18 8	18 41	Denebola	182 32.0	N 14 29.1			
	21	146 52.3	134 11.3	N 5 26.2	N 3	5 26	5 59	18 7	18 40	Dubhe	193 49.7	N 61 40.1			
22	161 54.8	149 11.5	N 5 27.2	N 2	5 26	5 59	18 7	18 40	Elnath	278 11.2	N 28 37.1				
23	176 57.2	164 11.6	N 5 28.1	N 1	5 27	5 59	18 7	18 40	Eltanin	90 45.4	N 51 29.1				
				0	5 27	6 0	18 6	18 39							
4	0	191 59.7	179 11.8	N 5 29.1	S 1	5 27	6 0	18 6	18 39	Enif	33 46.1	N 9 56.7			
	1	207 2.2	194 12.0	N 5 30.0	S 2	5 28	6 1	18 5	18 38	Formalhaut	15 23.1	S 29 32.4			
	2	222 4.6	209 12.2	N 5 31.0	S 3	5 28	6 1	18 5	18 38	Gacrux	171 58.9	S 57 11.9			
	3	237 7.1	224 12.4	N 5 31.9	S 4	5 28	6 1	18 5	18 38	Hadar	148 45.4	S 60 26.7			
	4	252 9.5	239 12.6	N 5 32.9	S 5	5 29	6 2	18 4	18 37	Hamal	327 59.7	N 23 31.9			
	5	267 12.0	254 12.7	N 5 33.8	S 6	5 29	6 2	18 4	18 37	Kaus Aust	83 42.1	S 34 22.3			
	6	282 14.5	269 12.9	N 5 34.8	S 7	5 29	6 3	18 3	18 37	Kochab	137 19.2	N 74 5.5			
	7	297 16.9	284 13.1	N 5 35.8	S 8	5 30	6 3	18 3	18 36	Markab	13 37.4	N 15 17.1			
	8	312 19.4	299 13.3	N 5 36.7	S 9	5 30	6 3	18 3	18 36	Menkent	148 5.5	S 36 26.5			
	9	327 21.9	314 13.5	N 5 37.7	S 10	5 30	6 4	18 2	18 36	Miaplacidu	221 38.7	S 69 47.2			
	10	342 24.3	329 13.7	N 5 38.6	S 11	5 31	6 4	18 2	18 35	Mirfak	308 39.0	N 49 54.8			
	11	357 26.8	344 13.8	N 5 39.6	S 12	5 31	6 5	18 1	18 35	Nunki	75 56.8	S 26 16.4			
	12	12 29.3	359 14.0	N 5 40.5	S 13	5 31	6 5	18 1	18 35	Peacock	53 17.6	S 56 40.8			
	13	27 31.7	14 14.2	N 5 41.5	S 14	5 31	6 5	18 1	18 34	Pollux	243 26.0	N 27 59.2			
	14	42 34.2	29 14.4	N 5 42.4	S 15	5 32	6 6	18 0	18 34	Procyon	244 58.2	N 5 11.1			
	15	57 36.6	44 14.6	N 5 43.4	S 20	5 33	6 8	17 58	18 33	Rasalhague	96 5.2	N 12 33.0			
	16	72 39.1	59 14.7	N 5 44.3	S 25	5 34	6 10	17 56	18 32	Regulus	207 41.9	N 11 53.4			
	17	87 41.6	74 14.9	N 5 45.3	S 30	5 34	6 12	17 53	18 31	Rigel	281 11.0	S 8 11.4			
	18	102 44.0	89 15.1	N 5 46.2	S 35	5 35	6 15	17 51	18 31	Rigel Kent	139 47.5	S 60 53.9			
	19	117 46.5	104 15.3	N 5 47.2	S 40	5 35	6 18	17 48	18 31	Schedar	349 39.6	N 56 37.2			
	20	132 49.0	119 15.5	N 5 48.1	S 45	5 34	6 21	17 44	18 31	Shaula	96 20.1	S 37 6.6			
	21	147 51.4	134 15.7	N 5 49.1	S 50	5 34	6 25	17 40	18 31	Sirius	258 32.5	S 16 44.3			
	22	162 53.9	149 15.8	N 5 50.0	S 55	5 32	6 29	17 36	18 33	Spica	158 29.6	S 11 14.5			
23	177 56.4	164 16.0	N 5 51.0	S 60	5 30	6 36	17 29	18 35	Vega	80 38.1	N 38 47.7				
		Sol			Luna										
Día	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase						
	m s	m s		h m											
3	3 30	3 21	1.0	12 3		13.5	98								
4	3 13	3 4	1.0	12 3		14.3	99								

Tabla G. Domingo 5 de abril – lunes 6 de abril de 2015.

Día	TU	Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		Aries	Sol							Nombre	SHA	Dec.
		GHA	GHA	Dec.		h m	h m	h m	h m	Nombre	SHA	Dec.
	h	° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m		° / ' / "	° / ' / "
5	0	192 58.8	179 16.2	N 5 51.9	N 60	4 1	5 12	18 55	20 6	Achernar	335 26.6	S 57 9.7
	1	208 1.3	194 16.4	N 5 52.9	N 55	4 20	5 20	18 46	19 46	Acruz	173 7.1	S 63 11.1
	2	223 3.8	209 16.6	N 5 53.8	N 50	4 34	5 27	18 39	19 32	Adhara	255 11.6	S 29 0.0
	3	238 6.2	224 16.7	N 5 54.8	N 45	4 45	5 32	18 33	19 21	Aldebaran	290 48.2	N 16 32.2
	4	253 8.7	239 16.9	N 5 55.8	N 40	4 53	5 37	18 29	19 13	Alioth	166 19.2	N 55 52.6
	5	268 11.1	254 17.1	N 5 56.7	N 35	5 0	5 41	18 25	19 6	Alkaid	152 57.5	N 49 14.2
	6	283 13.6	269 17.3	N 5 57.7	N 30	5 6	5 44	18 21	19 0	Alnair	27 42.6	S 46 53.0
	7	298 16.1	284 17.5	N 5 58.6	N 25	5 10	5 47	18 18	18 55	Alnilam	275 45.3	S 1 11.9
	8	313 18.5	299 17.7	N 5 59.6	N 20	5 15	5 50	18 15	18 51	Alphard	217 54.7	S 8 43.8
	9	328 21.0	314 17.8	N 6 0.5	N 15	5 18	5 52	18 13	18 47	Alpheratz	357 42.6	N 29 10.4
	10	343 23.5	329 18.0	N 6 1.5	N 14	5 19	5 53	18 12	18 46	Altair	62 7.2	N 8 54.4
	11	358 25.9	344 18.2	N 6 2.4	N 13	5 19	5 53	18 12	18 46	Antares	112 24.5	S 26 27.8
	12	13 28.4	359 18.4	N 6 3.3	N 12	5 20	5 54	18 11	18 45	Arcturus	145 54.0	N 19 6.6
	13	28 30.9	14 18.6	N 6 4.3	N 11	5 21	5 54	18 11	18 44	Atria	107 24.9	S 69 2.9
	14	43 33.3	29 18.7	N 6 5.2	N 10	5 21	5 55	18 10	18 44	Avior	234 17.2	S 59 34.0
	15	58 35.8	44 18.9	N 6 6.2	N 9	5 22	5 55	18 10	18 43	Bellatrix	278 30.8	N 6 21.5
	16	73 38.3	59 19.1	N 6 7.1	N 8	5 22	5 56	18 9	18 43	Betelgeuse	271 0.1	N 7 24.3
	17	88 40.7	74 19.3	N 6 8.1	N 7	5 23	5 56	18 9	18 42	Canopus	263 55.7	S 52 42.7
	18	103 43.2	89 19.5	N 6 9.0	N 6	5 23	5 57	18 8	18 42	Capella	280 32.9	N 46 0.8
	19	118 45.6	104 19.6	N 6 10.0	N 5	5 24	5 57	18 8	18 41	Deneb	49 30.8	N 45 19.9
	20	133 48.1	119 19.8	N 6 10.9	N 4	5 24	5 57	18 8	18 41	Denebola	182 32.0	N 14 29.1
	21	148 50.6	134 20.0	N 6 11.9	N 3	5 25	5 58	18 7	18 40	Dubhe	193 49.7	N 61 40.1
	22	163 53.0	149 20.2	N 6 12.8	N 2	5 25	5 58	18 7	18 40	Elnath	278 11.2	N 28 37.1
23	178 55.5	164 20.4	N 6 13.8	N 1	5 26	5 59	18 6	18 39	Eltanin	90 45.4	N 51 29.1	
6	0	193 58.0	179 20.5	N 6 14.7	S 1	5 27	6 0	18 5	18 38	Enif	33 46.1	N 9 56.7
	1	209 0.4	194 20.7	N 6 15.7	S 2	5 27	6 0	18 5	18 38	Formalhaut	15 23.1	S 29 32.4
	2	224 2.9	209 20.9	N 6 16.6	S 3	5 28	6 1	18 4	18 37	Gacrux	171 58.9	S 57 12.0
	3	239 5.4	224 21.1	N 6 17.6	S 4	5 28	6 1	18 4	18 37	Hadar	148 45.4	S 60 26.7
	4	254 7.8	239 21.3	N 6 18.5	S 5	5 28	6 1	18 3	18 36	Hamal	327 59.7	N 23 31.9
	5	269 10.3	254 21.4	N 6 19.5	S 6	5 29	6 2	18 3	18 36	Kaus Aust	83 42.1	S 34 22.3
	6	284 12.7	269 21.6	N 6 20.4	S 7	5 29	6 2	18 2	18 36	Kochab	137 19.2	N 74 5.5
	7	299 15.2	284 21.8	N 6 21.3	S 8	5 30	6 3	18 2	18 35	Markab	13 37.4	N 15 17.1
	8	314 17.7	299 22.0	N 6 22.3	S 9	5 30	6 3	18 1	18 35	Menkent	148 5.5	S 36 26.5
	9	329 20.1	314 22.2	N 6 23.2	S 10	5 30	6 4	18 1	18 35	Miaplacidu	221 38.7	S 69 47.2
	10	344 22.6	329 22.3	N 6 24.2	S 11	5 31	6 4	18 1	18 34	Mirfak	308 39.0	N 49 54.8
	11	359 25.1	344 22.5	N 6 25.1	S 12	5 31	6 5	18 0	18 34	Nunki	75 56.8	S 26 16.4
	12	14 27.5	359 22.7	N 6 26.1	S 13	5 31	6 5	18 0	18 33	Peacock	53 17.6	S 56 40.8
	13	29 30.0	14 22.9	N 6 27.0	S 14	5 32	6 6	17 59	18 33	Pollux	243 26.0	N 27 59.2
	14	44 32.5	29 23.0	N 6 28.0	S 15	5 32	6 6	17 59	18 33	Procyon	244 58.2	N 5 11.1
	15	59 34.9	44 23.2	N 6 28.9	S 20	5 33	6 8	17 56	18 31	Rasalhague	96 5.2	N 12 33.0
	16	74 37.4	59 23.4	N 6 29.8	S 25	5 35	6 11	17 54	18 30	Regulus	207 42.0	N 11 53.4
	17	89 39.9	74 23.6	N 6 30.8	S 30	5 36	6 13	17 51	18 29	Rigel	281 11.0	S 8 11.4
	18	104 42.3	89 23.8	N 6 31.7	S 35	5 36	6 16	17 48	18 28	Rigel Kent	139 47.5	S 60 53.9
	19	119 44.8	104 23.9	N 6 32.7	S 40	5 37	6 20	17 45	18 28	Schedar	349 39.6	N 56 37.1
	20	134 47.2	119 24.1	N 6 33.6	S 45	5 37	6 23	17 41	18 27	Shaula	96 20.1	S 37 6.6
	21	149 49.7	134 24.3	N 6 34.6	S 50	5 37	6 28	17 36	18 27	Sirius	258 32.5	S 16 44.3
	22	164 52.2	149 24.5	N 6 35.5	S 55	5 36	6 33	17 31	18 28	Spica	158 29.6	S 11 14.5
23	179 54.6	164 24.6	N 6 36.5	S 60	5 34	6 40	17 23	18 29	Vega	80 38.1	N 38 47.7	
Día	Sol				Luna							
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día	Porcentaje de iluminación	Fase					
	m s	m s		h m								
5	2 55	2 46	0.9	12 3	15.2	99						
6	2 38	2 29	0.9	12 2	16.1	97						

Tabla G. Martes 7 de abril – miércoles 8 de abril de 2015.


Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
7	h	° /	° /	° /	°	h m	h m	h m	h m						
	0	194 57.1	179 24.8	N 6 37.4	N 60	3 54	5 6	19 0	20 12	Achernar	335 26.6	S 57 9.7			
	1	209 59.6	194 25.0	N 6 38.3	N 55	4 15	5 15	18 50	19 51	Acrux	173 7.1	S 63 11.1			
	2	225 2.0	209 25.2	N 6 39.3	N 50	4 29	5 23	18 42	19 36	Adhara	255 11.6	S 29 0.0			
	3	240 4.5	224 25.4	N 6 40.2	N 45	4 41	5 29	18 36	19 24	Aldebaran	290 48.2	N 16 32.2			
	4	255 7.0	239 25.5	N 6 41.2	N 40	4 50	5 34	18 31	19 15	Alioth	166 19.2	N 55 52.6			
	5	270 9.4	254 25.7	N 6 42.1	N 35	4 57	5 38	18 26	19 7	Alkaid	152 57.5	N 49 14.2			
	6	285 11.9	269 25.9	N 6 43.0	N 30	5 3	5 42	18 23	19 1	Alnair	27 42.6	S 46 53.0			
	7	300 14.4	284 26.1	N 6 44.0	N 25	5 8	5 45	18 19	18 56	Alnilam	275 45.3	S 1 11.9			
	8	315 16.8	299 26.2	N 6 44.9	N 20	5 13	5 48	18 16	18 51	Alphard	217 54.7	S 8 43.8			
	9	330 19.3	314 26.4	N 6 45.9	N 15	5 17	5 51	18 13	18 47	Alpheratz	357 42.6	N 29 10.4			
	10	345 21.7	329 26.6	N 6 46.8	N 14	5 17	5 51	18 13	18 47	Altair	62 7.2	N 8 54.4			
	11	0 24.2	344 26.8	N 6 47.7	N 13	5 18	5 52	18 12	18 46	Antares	112 24.5	S 26 27.8			
	12	15 26.7	359 26.9	N 6 48.7	N 12	5 19	5 53	18 11	18 45	Arcturus	145 54.0	N 19 6.6			
	13	30 29.1	14 27.1	N 6 49.6	N 11	5 19	5 53	18 11	18 45	Atria	107 24.9	S 69 2.9			
	14	45 31.6	29 27.3	N 6 50.6	N 10	5 20	5 54	18 10	18 44	Avior	234 17.3	S 59 34.0			
	15	60 34.1	44 27.5	N 6 51.5	N 9	5 21	5 54	18 10	18 43	Bellatrix	278 30.8	N 6 21.5			
	16	75 36.5	59 27.6	N 6 52.4	N 8	5 21	5 55	18 9	18 43	Betelgeuse	271 0.1	N 7 24.3			
	17	90 39.0	74 27.8	N 6 53.4	N 7	5 22	5 55	18 9	18 42	Canopus	263 55.7	S 52 42.7			
	18	105 41.5	89 28.0	N 6 54.3	N 6	5 22	5 56	18 8	18 41	Capella	280 32.9	N 46 0.8			
	19	120 43.9	104 28.2	N 6 55.3	N 5	5 23	5 56	18 8	18 41	Deneb	49 30.8	N 45 19.9			
	20	135 46.4	119 28.4	N 6 56.2	N 4	5 24	5 57	18 7	18 40	Denebola	182 32.0	N 14 29.1			
	21	150 48.8	134 28.5	N 6 57.1	N 3	5 24	5 57	18 7	18 40	Dubhe	193 49.7	N 61 40.2			
22	165 51.3	149 28.7	N 6 58.1	N 2	5 25	5 58	18 6	18 39	Elnath	278 11.2	N 28 37.1				
23	180 53.8	164 28.9	N 6 59.0	N 1	5 25	5 58	18 6	18 39	Eltanin	90 45.4	N 51 29.1				
				0	5 26	5 59	18 5	18 38							
	0	195 56.2	179 29.1	N 7 00.0	S 1	5 26	5 59	18 5	18 38	Enif	33 46.1	N 9 56.7			
	1	210 58.7	194 29.2	N 7 0.9	S 2	5 27	6 0	18 4	18 37	Formalhaut	15 23.1	S 29 32.4			
	2	226 1.2	209 29.4	N 7 1.8	S 3	5 27	6 0	18 4	18 37	Gacrux	171 58.9	S 57 12.0			
	3	241 3.6	224 29.6	N 7 2.8	S 4	5 28	6 1	18 3	18 36	Hadar	148 45.4	S 60 26.7			
	4	256 6.1	239 29.8	N 7 3.7	S 5	5 28	6 1	18 3	18 36	Hamal	327 59.7	N 23 31.9			
	5	271 8.6	254 29.9	N 7 4.6	S 6	5 29	6 2	18 2	18 35	Kaus Aust	83 42.1	S 34 22.3			
	6	286 11.0	269 30.1	N 7 5.6	S 7	5 29	6 2	18 2	18 35	Kochab	137 19.1	N 74 5.5			
	7	301 13.5	284 30.3	N 7 6.5	S 8	5 29	6 3	18 1	18 34	Markab	13 37.4	N 15 17.1			
	8	316 16.0	299 30.4	N 7 7.4	S 9	5 30	6 3	18 0	18 34	Menkent	148 5.5	S 36 26.5			
	9	331 18.4	314 30.6	N 7 8.4	S 10	5 30	6 4	18 0	18 33	Miaplacidu	221 38.7	S 69 47.3			
	10	346 20.9	329 30.8	N 7 9.3	S 11	5 31	6 4	17 59	18 33	Mirfak	308 39.0	N 49 54.8			
	11	1 23.3	344 31.0	N 7 10.3	S 12	5 31	6 5	17 59	18 33	Nunki	75 56.8	S 26 16.4			
8	12	16 25.8	359 31.1	N 7 11.2	S 13	5 31	6 5	17 58	18 32	Peacock	53 17.6	S 56 40.8			
	13	31 28.3	14 31.3	N 7 12.1	S 14	5 32	6 6	17 58	18 32	Pollux	243 26.0	N 27 59.2			
	14	46 30.7	29 31.5	N 7 13.1	S 15	5 32	6 6	17 57	18 31	Procyon	244 58.3	N 5 11.1			
	15	61 33.2	44 31.7	N 7 14.0	S 20	5 34	6 9	17 55	18 30	Rasalhague	96 5.2	N 12 33.0			
	16	76 35.7	59 31.8	N 7 14.9	S 25	5 35	6 12	17 52	18 28	Regulus	207 42.0	N 11 53.4			
	17	91 38.1	74 32.0	N 7 15.9	S 30	5 37	6 15	17 49	18 27	Rigel	281 11.1	S 8 11.4			
	18	106 40.6	89 32.2	N 7 16.8	S 35	5 38	6 18	17 45	18 25	Rigel Kent	139 47.5	S 60 53.9			
	19	121 43.1	104 32.4	N 7 17.7	S 40	5 39	6 22	17 42	18 24	Schedar	349 39.6	N 56 37.1			
	20	136 45.5	119 32.5	N 7 18.7	S 45	5 39	6 26	17 37	18 24	Shaula	96 20.1	S 37 6.6			
	21	151 48.0	134 32.7	N 7 19.6	S 50	5 40	6 31	17 32	18 23	Sirius	258 32.5	S 16 44.3			
	22	166 50.5	149 32.9	N 7 20.5	S 55	5 40	6 37	17 26	18 23	Spica	158 29.6	S 11 14.5			
	23	181 52.9	164 33.0	N 7 21.5	S 60	5 39	6 45	17 18	18 23	Vega	80 38.1	N 38 47.7			
			Sol								Luna				
Día		Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día	Porcentaje de iluminación	Fase							
		m s	m s		h m										
7		2 21	2 12	0.9	12 2	17.0	94								
8		2 4	1 55	0.9	12 2	18.0	88								

Tabla G. Jueves 9 de abril – viernes 10 de abril de 2015.

Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
9	h	° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m	Nombre	° / ' / "	° / ' / "			
	0	196 55.4	179 33.2	N 7 22.4	N 60	3 47	5 0	19 5	20 18	Achernar	335 26.6	S 57 9.7			
	1	211 57.8	194 33.4	N 7 23.3	N 55	4 9	5 10	18 54	19 55	Acruz	173 7.1	S 63 11.1			
	2	227 0.3	209 33.6	N 7 24.3	N 50	4 25	5 19	18 45	19 39	Adhara	255 11.6	S 29 0.0			
	3	242 2.8	224 33.7	N 7 25.2	N 45	4 37	5 25	18 38	19 27	Aldebaran	290 48.2	N 16 32.2			
	4	257 5.2	239 33.9	N 7 26.1	N 40	4 46	5 31	18 33	19 17	Alioth	166 19.2	N 55 52.6			
	5	272 7.7	254 34.1	N 7 27.1	N 35	4 54	5 35	18 28	19 9	Alkaid	152 57.5	N 49 14.2			
	6	287 10.2	269 34.3	N 7 28.0	N 30	5 1	5 39	18 24	19 2	Alnair	27 42.6	S 46 53.0			
	7	302 12.6	284 34.4	N 7 28.9	N 25	5 6	5 43	18 20	18 57	Alnilam	275 45.3	S 1 11.9			
	8	317 15.1	299 34.6	N 7 29.8	N 20	5 11	5 46	18 17	18 52	Alphard	217 54.7	S 8 43.8			
	9	332 17.6	314 34.8	N 7 30.8	N 15	5 15	5 50	18 13	18 48	Alpheratz	357 42.6	N 29 10.4			
	10	347 20.0	329 34.9	N 7 31.7	N 14	5 16	5 50	18 13	18 47	Altair	62 7.2	N 8 54.4			
	11	2 22.5	344 35.1	N 7 32.6	N 13	5 17	5 51	18 12	18 46	Antares	112 24.5	S 26 27.8			
	12	17 24.9	359 35.3	N 7 33.6	N 12	5 17	5 51	18 12	18 45	Arcturus	145 54.0	N 19 6.6			
	13	32 27.4	14 35.5	N 7 34.5	N 11	5 18	5 52	18 11	18 45	Atria	107 24.9	S 69 2.9			
	14	47 29.9	29 35.6	N 7 35.4	N 10	5 19	5 53	18 10	18 44	Avior	234 17.3	S 59 34.0			
	15	62 32.3	44 35.8	N 7 36.4	N 9	5 20	5 53	18 10	18 43	Bellatrix	278 30.9	N 6 21.5			
	16	77 34.8	59 36.0	N 7 37.3	N 8	5 20	5 54	18 9	18 43	Betelgeuse	271 0.1	N 7 24.3			
	17	92 37.3	74 36.1	N 7 38.2	N 7	5 21	5 54	18 9	18 42	Canopus	263 55.7	S 52 42.7			
	18	107 39.7	89 36.3	N 7 39.1	N 6	5 22	5 55	18 8	18 41	Capella	280 32.9	N 46 0.8			
	19	122 42.2	104 36.5	N 7 40.1	N 5	5 22	5 55	18 7	18 41	Deneb	49 30.7	N 45 19.9			
	20	137 44.7	119 36.6	N 7 41.0	N 4	5 23	5 56	18 7	18 40	Denebola	182 32.0	N 14 29.1			
	21	152 47.1	134 36.8	N 7 41.9	N 3	5 23	5 56	18 6	18 39	Dubhe	193 49.7	N 61 40.2			
22	167 49.6	149 37.0	N 7 42.9	N 2	5 24	5 57	18 6	18 39	Elnath	278 11.3	N 28 37.1				
23	182 52.1	164 37.2	N 7 43.8	N 1	5 25	5 58	18 5	18 38	Eltanin	90 45.4	N 51 29.1				
10	0	197 54.5	179 37.3	N 7 44.7	S 1	5 26	5 59	18 4	18 37	Enif	33 46.1	N 9 56.7			
	1	212 57.0	194 37.5	N 7 45.6	S 2	5 26	5 59	18 3	18 37	Formalhaut	15 23.1	S 29 32.4			
	2	227 59.4	209 37.7	N 7 46.6	S 3	5 27	6 0	18 3	18 36	Gacrux	171 58.9	S 57 12.0			
	3	243 1.9	224 37.8	N 7 47.5	S 4	5 27	6 0	18 2	18 35	Hadar	148 45.4	S 60 26.7			
	4	258 4.4	239 38.0	N 7 48.4	S 5	5 28	6 1	18 2	18 35	Hamal	327 59.7	N 23 31.9			
	5	273 6.8	254 38.2	N 7 49.3	S 6	5 28	6 1	18 1	18 34	Kaus Aust	83 42.1	S 34 22.3			
	6	288 9.3	269 38.3	N 7 50.3	S 7	5 29	6 2	18 1	18 34	Kochab	137 19.1	N 74 5.5			
	7	303 11.8	284 38.5	N 7 51.2	S 8	5 29	6 3	18 0	18 33	Markab	13 37.4	N 15 17.1			
	8	318 14.2	299 38.7	N 7 52.1	S 9	5 30	6 3	17 59	18 33	Menkent	148 5.5	S 36 26.5			
	9	333 16.7	314 38.8	N 7 53.0	S 10	5 30	6 4	17 59	18 32	Miaplacidu	221 38.7	S 69 47.3			
	10	348 19.2	329 39.0	N 7 54.0	S 11	5 31	6 4	17 58	18 32	Mirfak	308 39.0	N 49 54.8			
	11	3 21.6	344 39.2	N 7 54.9	S 12	5 31	6 5	17 58	18 32	Nunki	75 56.8	S 26 16.4			
	12	18 24.1	359 39.4	N 7 55.8	S 13	5 31	6 5	17 57	18 31	Peacock	53 17.5	S 56 40.8			
	13	33 26.6	14 39.5	N 7 56.7	S 14	5 32	6 6	17 57	18 31	Pollux	243 26.1	N 27 59.2			
	14	48 29.0	29 39.7	N 7 57.7	S 15	5 32	6 6	17 56	18 30	Procyon	244 58.3	N 5 11.1			
	15	63 31.5	44 39.9	N 7 58.6	S 20	5 34	6 9	17 53	18 28	Rasalhague	96 5.2	N 12 33.0			
	16	78 33.9	59 40.0	N 7 59.5	S 25	5 36	6 13	17 50	18 26	Regulus	207 42.0	N 11 53.4			
	17	93 36.4	74 40.2	N 8 0.4	S 30	5 38	6 16	17 46	18 24	Rigel	281 11.1	S 8 11.4			
	18	108 38.9	89 40.4	N 8 1.4	S 35	5 39	6 20	17 43	18 23	Rigel Kent	139 47.5	S 60 53.9			
	19	123 41.3	104 40.5	N 8 2.3	S 40	5 41	6 24	17 38	18 21	Schedar	349 39.6	N 56 37.1			
	20	138 43.8	119 40.7	N 8 3.2	S 45	5 42	6 28	17 34	18 20	Shaula	96 20.1	S 37 6.6			
	21	153 46.3	134 40.9	N 8 4.1	S 50	5 43	6 34	17 28	18 19	Sirius	258 32.6	S 16 44.3			
	22	168 48.7	149 41.0	N 8 5.1	S 55	5 43	6 41	17 21	18 18	Spica	158 29.6	S 11 14.5			
23	183 51.2	164 41.2	N 8 6.0	S 60	5 44	6 50	17 12	18 18	Vega	80 38.1	N 38 47.7				
Día	Sol				Luna										
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día	Porcentaje de iluminación	Fase								
9	m s	m s		h m											
10	1 47	1 39	0.9	12 2	19.0	81									
	1 31	1 22	0.9	12 1	20.0	72									

Tabla G. Sábado 11 de abril – domingo 12 de abril de 2015.


Día	TU	Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		Aries	Sol							Nombre	SHA	Dec.
		GHA	GHA	Dec.								
		° /	° /	° /	°	h m	h m	h m	h m		° /	° /
11	0	198 53.7	179 41.4	N 8 6.9	N 60	3 40	4 54	19 10	20 24	Achernar	335 26.6	S 57 9.7
	1	213 56.1	194 41.5	N 8 7.8	N 55	4 3	5 5	18 58	20 0	Acruz	173 7.1	S 63 11.1
	2	228 58.6	209 41.7	N 8 8.7	N 50	4 20	5 14	18 48	19 43	Adhara	255 11.6	S 29 0.0
	3	244 1.1	224 41.9	N 8 9.7	N 45	4 33	5 22	18 41	19 30	Aldebaran	290 48.2	N 16 32.2
	4	259 3.5	239 42.0	N 8 10.6	N 40	4 43	5 28	18 35	19 19	Alioth	166 19.2	N 55 52.6
	5	274 6.0	254 42.2	N 8 11.5	N 35	4 51	5 33	18 30	19 11	Alkaid	152 57.5	N 49 14.2
	6	289 8.4	269 42.4	N 8 12.4	N 30	4 58	5 37	18 25	19 4	Alnair	27 42.6	S 46 53.0
	7	304 10.9	284 42.5	N 8 13.3	N 25	5 4	5 41	18 21	18 58	Alnilam	275 45.3	S 1 11.9
	8	319 13.4	299 42.7	N 8 14.3	N 20	5 9	5 45	18 17	18 53	Alphard	217 54.7	S 8 43.8
	9	334 15.8	314 42.9	N 8 15.2	N 15	5 14	5 48	18 14	18 48	Alpheratz	357 42.6	N 29 10.4
	10	349 18.3	329 43.0	N 8 16.1	N 14	5 15	5 49	18 13	18 47	Altair	62 7.2	N 8 54.4
	11	4 20.8	344 43.2	N 8 17.0	N 13	5 15	5 50	18 12	18 46	Antares	112 24.5	S 26 27.8
	12	19 23.2	359 43.4	N 8 17.9	N 12	5 16	5 50	18 12	18 46	Arcturus	145 54.0	N 19 6.6
	13	34 25.7	14 43.5	N 8 18.9	N 11	5 17	5 51	18 11	18 45	Atria	107 24.8	S 69 2.9
	14	49 28.2	29 43.7	N 8 19.8	N 10	5 18	5 51	18 10	18 44	Avior	234 17.3	S 59 34.0
	15	64 30.6	44 43.8	N 8 20.7	N 9	5 18	5 52	18 10	18 43	Bellatrix	278 30.9	N 6 21.5
	16	79 33.1	59 44.0	N 8 21.6	N 8	5 19	5 53	18 9	18 43	Betelgeuse	271 0.1	N 7 24.3
	17	94 35.5	74 44.2	N 8 22.5	N 7	5 20	5 53	18 8	18 42	Canopus	263 55.8	S 52 42.7
	18	109 38.0	89 44.3	N 8 23.4	N 6	5 21	5 54	18 8	18 41	Capella	280 32.9	N 46 0.8
	19	124 40.5	104 44.5	N 8 24.4	N 5	5 21	5 55	18 7	18 40	Deneb	49 30.7	N 45 19.9
	20	139 42.9	119 44.7	N 8 25.3	N 4	5 22	5 55	18 7	18 40	Denebola	182 32.0	N 14 29.1
	21	154 45.4	134 44.8	N 8 26.2	N 3	5 23	5 56	18 6	18 39	Dubhe	193 49.7	N 61 40.2
	22	169 47.9	149 45.0	N 8 27.1	N 2	5 23	5 56	18 5	18 38	Elnath	278 11.3	N 28 37.1
23	184 50.3	164 45.2	N 8 28.0	N 1	5 24	5 57	18 5	18 38	Eltanin	90 45.4	N 51 29.1	
					0	5 24	5 58	18 4	18 37			
					S 1	5 25	5 58	18 3	18 37	Enif	33 46.1	N 9 56.7
12	0	199 52.8	179 45.3	N 8 28.9	S 1	5 25	5 58	18 3	18 37	Enif	33 46.1	N 9 56.7
	1	214 55.3	194 45.5	N 8 29.9	S 2	5 26	5 59	18 3	18 36	Formalhaut	15 23.0	S 29 32.4
	2	229 57.7	209 45.6	N 8 30.8	S 3	5 26	5 59	18 2	18 35	Gacrux	171 58.9	S 57 12.0
	3	245 0.2	224 45.8	N 8 31.7	S 4	5 27	6 0	18 2	18 35	Hadar	148 45.4	S 60 26.7
	4	260 2.7	239 46.0	N 8 32.6	S 5	5 27	6 1	18 1	18 34	Hamal	327 59.7	N 23 31.9
	5	275 5.1	254 46.1	N 8 33.5	S 6	5 28	6 1	18 0	18 34	Kaus Aust	83 42.1	S 34 22.3
	6	290 7.6	269 46.3	N 8 34.4	S 7	5 28	6 2	18 0	18 33	Kochab	137 19.1	N 74 5.5
	7	305 10.0	284 46.5	N 8 35.4	S 8	5 29	6 2	17 59	18 33	Markab	13 37.4	N 15 17.2
	8	320 12.5	299 46.6	N 8 36.3	S 9	5 30	6 3	17 58	18 32	Menkent	148 5.5	S 36 26.5
	9	335 15.0	314 46.8	N 8 37.2	S 10	5 30	6 4	17 58	18 31	Miaplacidu	221 38.8	S 69 47.3
	10	350 17.4	329 46.9	N 8 38.1	S 11	5 31	6 4	17 57	18 31	Mirfak	308 39.0	N 49 54.8
	11	5 19.9	344 47.1	N 8 39.0	S 12	5 31	6 5	17 57	18 30	Nunki	75 56.7	S 26 16.4
	12	20 22.4	359 47.3	N 8 39.9	S 13	5 32	6 5	17 56	18 30	Peacock	53 17.5	S 56 40.7
	13	35 24.8	14 47.4	N 8 40.8	S 14	5 32	6 6	17 55	18 29	Pollux	243 26.1	N 27 59.2
	14	50 27.3	29 47.6	N 8 41.7	S 15	5 33	6 7	17 55	18 29	Procyon	244 58.3	N 5 11.1
	15	65 29.8	44 47.8	N 8 42.7	S 20	5 35	6 10	17 51	18 27	Rasalhague	96 5.2	N 12 33.0
	16	80 32.2	59 47.9	N 8 43.6	S 25	5 37	6 13	17 48	18 24	Regulus	207 42.0	N 11 53.4
	17	95 34.7	74 48.1	N 8 44.5	S 30	5 39	6 17	17 44	18 22	Rigel	281 11.1	S 8 11.4
	18	110 37.2	89 48.2	N 8 45.4	S 35	5 41	6 21	17 40	18 20	Rigel Kent	139 47.4	S 60 53.9
	19	125 39.6	104 48.4	N 8 46.3	S 40	5 43	6 26	17 35	18 18	Schedar	349 39.6	N 56 37.1
	20	140 42.1	119 48.6	N 8 47.2	S 45	5 44	6 31	17 30	18 17	Shaula	96 20.0	S 37 6.6
	21	155 44.5	134 48.7	N 8 48.1	S 50	5 46	6 37	17 24	18 15	Sirius	258 32.6	S 16 44.3
	22	170 47.0	149 48.9	N 8 49.0	S 55	5 47	6 45	17 16	18 14	Spica	158 29.6	S 11 14.5
23	185 49.5	164 49.0	N 8 50.0	S 60	5 48	6 55	17 6	18 12	Vega	80 38.1	N 38 47.7	
		Sol			Luna							
Día	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día	Porcentaje de iluminación		Fase				
	m s	m s		h m								
11	1 14	1 6	0.9	12 1	21.1	62						
12	0 59	0 51	0.9	12 1	22.2	51						

Tabla G. Lunes 13 de abril – martes 14 de abril de 2015.


Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
13	h	° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m	Nombre	° / ' / "	° / ' / "			
	0	200 51.9	179 49.2	N 8 50.9	N 60	3 33	4 48	19 15	20 30	Achernar	335 26.6	S 57 9.7			
	1	215 54.4	194 49.4	N 8 51.8	N 55	3 58	5 0	19 1	20 4	Acruz	173 7.1	S 63 11.2			
	2	230 56.9	209 49.5	N 8 52.7	N 50	4 16	5 10	18 51	19 46	Adhara	255 11.6	S 29 0.0			
	3	245 59.3	224 49.7	N 8 53.6	N 45	4 29	5 18	18 43	19 32	Aldebaran	290 48.2	N 16 32.2			
	4	261 1.8	239 49.8	N 8 54.5	N 40	4 40	5 24	18 37	19 22	Alioth	166 19.2	N 55 52.6			
	5	276 4.3	254 50.0	N 8 55.4	N 35	4 49	5 30	18 31	19 13	Alkaid	152 57.5	N 49 14.2			
	6	291 6.7	269 50.2	N 8 56.3	N 30	4 56	5 35	18 26	19 5	Alnair	27 42.6	S 46 53.0			
	7	306 9.2	284 50.3	N 8 57.2	N 25	5 2	5 39	18 22	18 59	Alnilam	275 45.3	S 1 11.9			
	8	321 11.6	299 50.5	N 8 58.1	N 20	5 8	5 43	18 18	18 53	Alphard	217 54.7	S 8 43.8			
	9	336 14.1	314 50.6	N 8 59.0	N 15	5 12	5 47	18 14	18 48	Alpheratz	357 42.5	N 29 10.4			
	10	351 16.6	329 50.8	N 8 59.9	N 14	5 13	5 48	18 13	18 48	Altair	62 7.2	N 8 54.4			
	11	6 19.0	344 51.0	N 9 0.9	N 13	5 14	5 48	18 12	18 47	Antares	112 24.5	S 26 27.8			
	12	21 21.5	359 51.1	N 9 1.8	N 12	5 15	5 49	18 12	18 46	Arcturus	145 54.0	N 19 6.7			
	13	36 24.0	14 51.3	N 9 2.7	N 11	5 16	5 50	18 11	18 45	Atria	107 24.8	S 69 2.9			
	14	51 26.4	29 51.4	N 9 3.6	N 10	5 17	5 50	18 10	18 44	Avior	234 17.3	S 59 34.0			
	15	66 28.9	44 51.6	N 9 4.5	N 9	5 17	5 51	18 10	18 43	Bellatrix	278 30.9	N 6 21.5			
	16	81 31.4	59 51.7	N 9 5.4	N 8	5 18	5 52	18 9	18 43	Betelgeuse	271 0.1	N 7 24.3			
	17	96 33.8	74 51.9	N 9 6.3	N 7	5 19	5 52	18 8	18 42	Canopus	263 55.8	S 52 42.7			
	18	111 36.3	89 52.1	N 9 7.2	N 6	5 20	5 53	18 8	18 41	Capella	280 32.9	N 46 0.8			
	19	126 38.8	104 52.2	N 9 8.1	N 5	5 20	5 54	18 7	18 40	Deneb	49 30.7	N 45 19.9			
	20	141 41.2	119 52.4	N 9 9.0	N 4	5 21	5 54	18 6	18 40	Denebola	182 32.0	N 14 29.1			
	21	156 43.7	134 52.5	N 9 9.9	N 3	5 22	5 55	18 6	18 39	Dubhe	193 49.8	N 61 40.2			
22	171 46.1	149 52.7	N 9 10.8	N 2	5 23	5 56	18 5	18 38	Elnath	278 11.3	N 28 37.1				
23	186 48.6	164 52.8	N 9 11.7	N 1	5 23	5 56	18 4	18 37	Eltanin	90 45.3	N 51 29.1				
14	0	201 51.1	179 53.0	N 9 12.6	S 1	5 25	5 58	18 3	18 36	Enif	33 46.1	N 9 56.7			
	1	216 53.5	194 53.2	N 9 13.5	S 2	5 25	5 58	18 2	18 35	Formalhaut	15 23.0	S 29 32.4			
	2	231 56.0	209 53.3	N 9 14.4	S 3	5 26	5 59	18 2	18 35	Gacrux	171 58.9	S 57 12.0			
	3	246 58.5	224 53.5	N 9 15.3	S 4	5 26	6 0	18 1	18 34	Hadar	148 45.3	S 60 26.7			
	4	262 0.9	239 53.6	N 9 16.2	S 5	5 27	6 0	18 0	18 33	Hamal	327 59.7	N 23 31.9			
	5	277 3.4	254 53.8	N 9 17.1	S 6	5 28	6 1	18 0	18 33	Kaus Aust	83 42.0	S 34 22.3			
	6	292 5.9	269 53.9	N 9 18.0	S 7	5 28	6 2	17 59	18 32	Kochab	137 19.1	N 74 5.5			
	7	307 8.3	284 54.1	N 9 18.9	S 8	5 29	6 2	17 58	18 32	Markab	13 37.4	N 15 17.2			
	8	322 10.8	299 54.3	N 9 19.9	S 9	5 30	6 3	17 57	18 31	Menkent	148 5.5	S 36 26.6			
	9	337 13.3	314 54.4	N 9 20.8	S 10	5 30	6 4	17 57	18 30	Miaplacidu	221 38.8	S 69 47.3			
	10	352 15.7	329 54.6	N 9 21.7	S 11	5 31	6 4	17 56	18 30	Mirfak	308 39.0	N 49 54.8			
	11	7 18.2	344 54.7	N 9 22.6	S 12	5 31	6 5	17 55	18 29	Nunki	75 56.7	S 26 16.4			
	12	22 20.6	359 54.9	N 9 23.5	S 13	5 32	6 6	17 55	18 29	Peacock	53 17.5	S 56 40.7			
	13	37 23.1	14 55.0	N 9 24.4	S 14	5 32	6 6	17 54	18 28	Pollux	243 26.1	N 27 59.2			
	14	52 25.6	29 55.2	N 9 25.3	S 15	5 33	6 7	17 53	18 28	Procyon	244 58.3	N 5 11.1			
	15	67 28.0	44 55.3	N 9 26.2	S 20	5 35	6 11	17 50	18 25	Rasalhague	96 5.2	N 12 33.0			
	16	82 30.5	59 55.5	N 9 27.1	S 25	5 38	6 14	17 46	18 23	Regulus	207 42.0	N 11 53.4			
	17	97 33.0	74 55.6	N 9 28.0	S 30	5 40	6 18	17 42	18 20	Rigel	281 11.1	S 8 11.4			
	18	112 35.4	89 55.8	N 9 28.9	S 35	5 42	6 23	17 37	18 18	Rigel Kent	139 47.4	S 60 54.0			
	19	127 37.9	104 56.0	N 9 29.8	S 40	5 44	6 28	17 32	18 16	Schedar	349 39.6	N 56 37.1			
	20	142 40.4	119 56.1	N 9 30.7	S 45	5 47	6 33	17 27	18 13	Shaula	96 20.0	S 37 6.6			
	21	157 42.8	134 56.3	N 9 31.6	S 50	5 49	6 40	17 20	18 11	Sirius	258 32.6	S 16 44.3			
	22	172 45.3	149 56.4	N 9 32.4	S 55	5 51	6 49	17 11	18 9	Spica	158 29.6	S 11 14.5			
23	187 47.7	164 56.6	N 9 33.3	S 60	5 53	7 0	17 0	18 7	Vega	80 38.1	N 38 47.7				
Día	Sol				Luna										
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día	Porcentaje de iluminación	Fase								
13	m s	m s		h m											
14	0 43	0 35	0.9	12 1	23.3	40									
	0 28	0 20	0.9	12 0	24.4	29									

Tabla G. Miércoles 15 de abril – jueves 16 de abril de 2015.


Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
15	h	° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m	h m	h m	h m	° / ' / "	° / ' / "	° / ' / "
	0	202 50.2	179 56.7	N 9 34.2	N 60	3 26	4 42	19 19	20 36	Achernar	335 26.6	S 57 9.7			
	1	217 52.7	194 56.9	N 9 35.1	N 55	3 52	4 56	19 5	20 9	Acruz	173 7.1	S 63 11.2			
	2	232 55.1	209 57.0	N 9 36.0	N 50	4 11	5 6	18 55	19 50	Adhara	255 11.6	S 29 0.0			
	3	247 57.6	224 57.2	N 9 36.9	N 45	4 25	5 14	18 46	19 35	Aldebaran	290 48.2	N 16 32.2			
	4	263 0.1	239 57.3	N 9 37.8	N 40	4 37	5 21	18 39	19 24	Alioth	166 19.2	N 55 52.6			
	5	278 2.5	254 57.5	N 9 38.7	N 35	4 46	5 27	18 33	19 14	Alkaid	152 57.5	N 49 14.2			
	6	293 5.0	269 57.6	N 9 39.6	N 30	4 54	5 33	18 27	19 7	Alnair	27 42.6	S 46 53.0			
	7	308 7.5	284 57.8	N 9 40.5	N 25	5 0	5 37	18 23	19 0	Alnilam	275 45.3	S 1 11.9			
	8	323 9.9	299 57.9	N 9 41.4	N 20	5 6	5 42	18 18	18 54	Alphard	217 54.7	S 8 43.8			
	9	338 12.4	314 58.1	N 9 42.3	N 15	5 11	5 46	18 14	18 49	Alpheratz	357 42.5	N 29 10.4			
	10	353 14.9	329 58.2	N 9 43.2	N 14	5 12	5 46	18 13	18 48	Altair	62 7.2	N 8 54.4			
	11	8 17.3	344 58.4	N 9 44.1	N 13	5 13	5 47	18 13	18 47	Antares	112 24.4	S 26 27.8			
	12	23 19.8	359 58.5	N 9 45.0	N 12	5 14	5 48	18 12	18 46	Arcturus	145 54.0	N 19 6.7			
	13	38 22.2	14 58.7	N 9 45.9	N 11	5 15	5 49	18 11	18 45	Atria	107 24.8	S 69 2.9			
	14	53 24.7	29 58.8	N 9 46.8	N 10	5 16	5 49	18 10	18 44	Avior	234 17.3	S 59 34.0			
	15	68 27.2	44 59.0	N 9 47.7	N 9	5 16	5 50	18 10	18 43	Bellatrix	278 30.9	N 6 21.5			
	16	83 29.6	59 59.1	N 9 48.6	N 8	5 17	5 51	18 9	18 43	Betelgeuse	271 0.1	N 7 24.3			
	17	98 32.1	74 59.3	N 9 49.5	N 7	5 18	5 52	18 8	18 42	Canopus	263 55.8	S 52 42.7			
	18	113 34.6	89 59.4	N 9 50.4	N 6	5 19	5 52	18 7	18 41	Capella	280 32.9	N 46 0.8			
	19	128 37.0	104 59.6	N 9 51.2	N 5	5 20	5 53	18 7	18 40	Deneb	49 30.7	N 45 19.9			
	20	143 39.5	119 59.7	N 9 52.1	N 4	5 20	5 54	18 6	18 39	Denebola	182 32.0	N 14 29.1			
	21	158 42.0	134 59.9	N 9 53.0	N 3	5 21	5 54	18 5	18 39	Dubhe	193 49.8	N 61 40.2			
22	173 44.4	150 0.0	N 9 53.9	N 2	5 22	5 55	18 5	18 38	Elnath	278 11.3	N 28 37.1				
23	188 46.9	165 0.2	N 9 54.8	N 1	5 23	5 56	18 4	18 37	Eltanin	90 45.3	N 51 29.1				
16	0	203 49.4	180 0.3	N 9 55.7	S 1	5 24	5 57	18 3	18 36	Enif	33 46.1	N 9 56.7			
	1	218 51.8	195 0.5	N 9 56.6	S 2	5 25	5 58	18 2	18 36	Formalhaut	15 23.0	S 29 32.4			
	2	233 54.3	210 0.6	N 9 57.5	S 3	5 25	5 59	18 1	18 34	Gacrux	171 58.9	S 57 12.0			
	3	248 56.7	225 0.8	N 9 58.4	S 4	5 26	5 59	18 0	18 34	Hadar	148 45.3	S 60 26.7			
	4	263 59.2	240 0.9	N 9 59.3	S 5	5 27	6 0	17 59	18 33	Hamal	327 59.7	N 23 31.9			
	5	279 1.7	255 1.1	N 10 0.2	S 6	5 27	6 1	17 59	18 32	Kaus Aust	83 42.0	S 34 22.3			
	6	294 4.1	270 1.2	N 10 1.0	S 7	5 28	6 2	17 58	18 32	Kochab	137 19.1	N 74 5.6			
	7	309 6.6	285 1.4	N 10 1.9	S 8	5 29	6 2	17 57	18 31	Markab	13 37.3	N 15 17.2			
	8	324 9.1	300 1.5	N 10 2.8	S 9	5 29	6 3	17 56	18 30	Menkent	148 5.5	S 36 26.6			
	9	339 11.5	315 1.7	N 10 3.7	S 10	5 30	6 4	17 56	18 30	Miaplacidu	221 38.8	S 69 47.3			
	10	354 14.0	330 1.8	N 10 4.6	S 11	5 31	6 4	17 55	18 29	Mirfak	308 39.0	N 49 54.8			
	11	9 16.5	345 2.0	N 10 5.5	S 12	5 31	6 5	17 54	18 28	Nunki	75 56.7	S 26 16.4			
	12	24 18.9	0 2.1	N 10 6.4	S 13	5 32	6 6	17 54	18 28	Peacock	53 17.5	S 56 40.7			
	13	39 21.4	15 2.3	N 10 7.3	S 14	5 32	6 7	17 53	18 27	Pollux	243 26.1	N 27 59.2			
	14	54 23.8	30 2.4	N 10 8.1	S 15	5 33	6 7	17 52	18 26	Procyon	244 58.3	N 5 11.1			
	15	69 26.3	45 2.6	N 10 9.0	S 20	5 36	6 11	17 48	18 24	Rasalhague	96 5.2	N 12 33.0			
	16	84 28.8	60 2.7	N 10 9.9	S 25	5 39	6 15	17 44	18 21	Regulus	207 42.0	N 11 53.4			
	17	99 31.2	75 2.9	N 10 10.8	S 30	5 41	6 19	17 40	18 18	Rigel	281 11.1	S 8 11.4			
	18	114 33.7	90 3.0	N 10 11.7	S 35	5 44	6 24	17 35	18 15	Rigel Kent	139 47.4	S 60 54.0			
	19	129 36.2	105 3.1	N 10 12.6	S 40	5 46	6 30	17 29	18 13	Schedar	349 39.6	N 56 37.1			
	20	144 38.6	120 3.3	N 10 13.5	S 45	5 49	6 36	17 23	18 10	Shaula	96 20.0	S 37 6.6			
	21	159 41.1	135 3.4	N 10 14.3	S 50	5 51	6 43	17 16	18 7	Sirius	258 32.6	S 16 44.3			
	22	174 43.6	150 3.6	N 10 15.2	S 55	5 54	6 52	17 6	18 4	Spica	158 29.6	S 11 14.5			
23	189 46.0	165 3.7	N 10 16.1	S 60	5 57	7 4	16 54	18 1	Vega	80 38.0	N 38 47.7				
Día	Sol				Luna										
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día		Porcentaje de iluminación		Fase						
15	m s	m s		h m											
16	0 13	0 6	0.9	12 0	25.4	19									
	0 2	0 9	0.9	12 0	26.5	11									

Tabla G. Viernes 17 de abril – sábado 18 de abril de 2015.


Día	TU	Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		Aries	Sol							Nombre	SHA	Dec.
		GHA	GHA	Dec.		h m	h m	h m	h m		° / ' / "	° / ' / "
17	h	° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m	Nombre	° / ' / "	° / ' / "
	0	204 48.5	180 3.9	N 10 17.0	N 60	3 19	4 36	19 24	20 42	Achernar	335 26.6	S 57 9.6
	1	219 51.0	195 4.0	N 10 17.9	N 55	3 47	4 51	19 9	20 14	Acrux	173 7.1	S 63 11.2
	2	234 53.4	210 4.2	N 10 18.8	N 50	4 7	5 2	18 58	19 53	Adhara	255 11.6	S 29 0.0
	3	249 55.9	225 4.3	N 10 19.6	N 45	4 22	5 11	18 49	19 38	Aldebaran	290 48.2	N 16 32.2
	4	264 58.3	240 4.5	N 10 20.5	N 40	4 33	5 19	18 41	19 26	Alioth	166 19.2	N 55 52.7
	5	280 0.8	255 4.6	N 10 21.4	N 35	4 43	5 25	18 34	19 16	Alkaid	152 57.5	N 49 14.2
	6	295 3.3	270 4.7	N 10 22.3	N 30	4 51	5 30	18 29	19 8	Alnair	27 42.6	S 46 52.9
	7	310 5.7	285 4.9	N 10 23.2	N 25	4 58	5 36	18 24	19 1	Alnilam	275 45.3	S 1 11.9
	8	325 8.2	300 5.0	N 10 24.1	N 20	5 4	5 40	18 19	18 55	Alphard	217 54.7	S 8 43.8
	9	340 10.7	315 5.2	N 10 24.9	N 15	5 10	5 44	18 15	18 49	Alpheratz	357 42.5	N 29 10.4
	10	355 13.1	330 5.3	N 10 25.8	N 14	5 11	5 45	18 14	18 48	Altair	62 7.2	N 8 54.4
	11	10 15.6	345 5.5	N 10 26.7	N 13	5 12	5 46	18 13	18 47	Antares	112 24.4	S 26 27.8
	12	25 18.1	0 5.6	N 10 27.6	N 12	5 13	5 47	18 12	18 46	Arcturus	145 54.0	N 19 6.7
	13	40 20.5	15 5.7	N 10 28.5	N 11	5 14	5 48	18 11	18 45	Atria	107 24.7	S 69 2.9
	14	55 23.0	30 5.9	N 10 29.3	N 10	5 14	5 48	18 10	18 44	Avior	234 17.4	S 59 34.0
	15	70 25.5	45 6.0	N 10 30.2	N 9	5 15	5 49	18 10	18 44	Bellatrix	278 30.9	N 6 21.5
	16	85 27.9	60 6.2	N 10 31.1	N 8	5 16	5 50	18 9	18 43	Betelgeuse	271 0.1	N 7 24.3
	17	100 30.4	75 6.3	N 10 32.0	N 7	5 17	5 51	18 8	18 42	Canopus	263 55.8	S 52 42.7
	18	115 32.8	90 6.5	N 10 32.9	N 6	5 18	5 52	18 7	18 41	Capella	280 32.9	N 46 0.8
	19	130 35.3	105 6.6	N 10 33.7	N 5	5 19	5 52	18 6	18 40	Deneb	49 30.7	N 45 19.9
	20	145 37.8	120 6.7	N 10 34.6	N 4	5 20	5 53	18 6	18 39	Denebola	182 32.0	N 14 29.1
	21	160 40.2	135 6.9	N 10 35.5	N 3	5 20	5 54	18 5	18 38	Dubhe	193 49.8	N 61 40.2
22	175 42.7	150 7.0	N 10 36.4	N 2	5 21	5 55	18 4	18 38	Elnath	278 11.3	N 28 37.1	
23	190 45.2	165 7.2	N 10 37.2	N 1	5 22	5 55	18 3	18 37	Eltanin	90 45.3	N 51 29.1	
18	0	205 47.6	180 7.3	N 10 38.1	S 1	5 24	5 57	18 2	18 35	Enif	33 46.0	N 9 56.7
	1	220 50.1	195 7.4	N 10 39.0	S 2	5 24	5 58	18 1	18 34	Formalhaut	15 23.0	S 29 32.4
	2	235 52.6	210 7.6	N 10 39.9	S 3	5 25	5 58	18 0	18 34	Gacrux	171 58.9	S 57 12.0
	3	250 55.0	225 7.7	N 10 40.8	S 4	5 26	5 59	18 0	18 33	Hadar	148 45.3	S 60 26.7
	4	265 57.5	240 7.9	N 10 41.6	S 5	5 26	6 0	17 59	18 32	Hamal	327 59.7	N 23 31.9
	5	281 00.0	255 8.0	N 10 42.5	S 6	5 27	6 1	17 58	18 31	Kaus Aust	83 42.0	S 34 22.3
	6	296 2.4	270 8.2	N 10 43.4	S 7	5 28	6 1	17 57	18 31	Kochab	137 19.1	N 74 5.6
	7	311 4.9	285 8.3	N 10 44.3	S 8	5 29	6 2	17 56	18 30	Markab	13 37.3	N 15 17.2
	8	326 7.3	300 8.4	N 10 45.1	S 9	5 29	6 3	17 56	18 29	Menkent	148 5.5	S 36 26.6
	9	341 9.8	315 8.6	N 10 46.0	S 10	5 30	6 4	17 55	18 29	Miaplacidu	221 38.9	S 69 47.3
	10	356 12.3	330 8.7	N 10 46.9	S 11	5 31	6 4	17 54	18 28	Mirfak	308 39.0	N 49 54.8
	11	11 14.7	345 8.9	N 10 47.7	S 12	5 31	6 5	17 53	18 27	Nunki	75 56.7	S 26 16.4
	12	26 17.2	0 9.0	N 10 48.6	S 13	5 32	6 6	17 53	18 27	Peacock	53 17.4	S 56 40.7
	13	41 19.7	15 9.1	N 10 49.5	S 14	5 33	6 7	17 52	18 26	Pollux	243 26.1	N 27 59.2
	14	56 22.1	30 9.3	N 10 50.4	S 15	5 33	6 8	17 51	18 25	Procyon	244 58.3	N 5 11.1
	15	71 24.6	45 9.4	N 10 51.2	S 20	5 36	6 12	17 47	18 22	Rasalhague	96 5.1	N 12 33.0
	16	86 27.1	60 9.5	N 10 52.1	S 25	5 39	6 16	17 42	18 19	Regulus	207 42.0	N 11 53.4
	17	101 29.5	75 9.7	N 10 53.0	S 30	5 42	6 21	17 38	18 16	Rigel	281 11.1	S 8 11.4
	18	116 32.0	90 9.8	N 10 53.9	S 35	5 45	6 26	17 32	18 13	Rigel Kent	139 47.4	S 60 54.0
	19	131 34.4	105 10.0	N 10 54.7	S 40	5 48	6 32	17 27	18 10	Schedar	349 39.6	N 56 37.1
	20	146 36.9	120 10.1	N 10 55.6	S 45	5 51	6 38	17 20	18 7	Shaula	96 20.0	S 37 6.6
	21	161 39.4	135 10.2	N 10 56.5	S 50	5 54	6 46	17 12	18 4	Sirius	258 32.6	S 16 44.3
	22	176 41.8	150 10.4	N 10 57.3	S 55	5 58	6 56	17 2	18 0	Spica	158 29.6	S 11 14.5
23	191 44.3	165 10.5	N 10 58.2	S 60	6 2	7 9	16 49	17 56	Vega	80 38.0	N 38 47.7	
		Sol			Luna							
Día	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día	Porcentaje de iluminación		Fase				
	m s	m s		h m								
17	0 16	0 23	0.9	12 0	27.6	4						
18	0 29	0 36	0.9	11 59	28.7	0						

Tabla G. Domingo 19 de abril – lunes 20 de abril de 2015.

Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
19	h	° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m	h m	h m	h m	° / ' / "	° / ' / "	° / ' / "
	0	206 46.8	180 10.6	N 10 59.1	N 60	3 11	4 30	19 29	20 49	Achernar	335 26.6	S 57 9.6			
	1	221 49.2	195 10.8	N 10 59.9	N 55	3 41	4 46	19 13	20 18	Acruz	173 7.1	S 63 11.2			
	2	236 51.7	210 10.9	N 11 0.8	N 50	4 2	4 58	19 1	19 57	Adhara	255 11.7	S 29 0.0			
	3	251 54.2	225 11.1	N 11 1.7	N 45	4 18	5 8	18 51	19 41	Aldebaran	290 48.2	N 16 32.2			
	4	266 56.6	240 11.2	N 11 2.5	N 40	4 30	5 16	18 43	19 28	Alioth	166 19.2	N 55 52.7			
	5	281 59.1	255 11.3	N 11 3.4	N 35	4 40	5 22	18 36	19 18	Alkaid	152 57.5	N 49 14.2			
	6	297 1.6	270 11.5	N 11 4.3	N 30	4 49	5 28	18 30	19 9	Alnair	27 42.5	S 46 52.9			
	7	312 4.0	285 11.6	N 11 5.1	N 25	4 56	5 34	18 25	19 2	Alnilam	275 45.3	S 1 11.9			
	8	327 6.5	300 11.7	N 11 6.0	N 20	5 3	5 39	18 20	18 56	Alphard	217 54.8	S 8 43.8			
	9	342 8.9	315 11.9	N 11 6.9	N 15	5 8	5 43	18 15	18 50	Alpheratz	357 42.5	N 29 10.4			
	10	357 11.4	330 12.0	N 11 7.7	N 14	5 9	5 44	18 14	18 49	Altair	62 7.1	N 8 54.5			
	11	12 13.9	345 12.1	N 11 8.6	N 13	5 10	5 45	18 13	18 48	Antares	112 24.4	S 26 27.8			
	12	27 16.3	0 12.3	N 11 9.5	N 12	5 11	5 46	18 12	18 47	Arcturus	145 54.0	N 19 6.7			
	13	42 18.8	15 12.4	N 11 10.3	N 11	5 12	5 47	18 11	18 46	Atria	107 24.7	S 69 2.9			
	14	57 21.3	30 12.5	N 11 11.2	N 10	5 13	5 47	18 11	18 45	Avior	234 17.4	S 59 34.0			
	15	72 23.7	45 12.7	N 11 12.1	N 9	5 14	5 48	18 10	18 44	Bellatrix	278 30.9	N 6 21.5			
	16	87 26.2	60 12.8	N 11 12.9	N 8	5 15	5 49	18 9	18 43	Betelgeuse	271 0.1	N 7 24.3			
	17	102 28.7	75 12.9	N 11 13.8	N 7	5 16	5 50	18 8	18 42	Canopus	263 55.8	S 52 42.7			
	18	117 31.1	90 13.1	N 11 14.7	N 6	5 17	5 51	18 7	18 41	Capella	280 32.9	N 46 0.8			
	19	132 33.6	105 13.2	N 11 15.5	N 5	5 18	5 52	18 6	18 40	Deneb	49 30.6	N 45 19.9			
	20	147 36.1	120 13.4	N 11 16.4	N 4	5 19	5 52	18 5	18 39	Denebola	182 32.0	N 14 29.1			
	21	162 38.5	135 13.5	N 11 17.3	N 3	5 20	5 53	18 5	18 38	Dubhe	193 49.8	N 61 40.2			
22	177 41.0	150 13.6	N 11 18.1	N 2	5 21	5 54	18 4	18 37	Elnath	278 11.3	N 28 37.1				
23	192 43.4	165 13.7	N 11 19.0	N 1	5 21	5 55	18 3	18 36	Eltanin	90 45.3	N 51 29.1				
20	0	207 45.9	180 13.9	N 11 19.8	S 1	5 23	5 56	18 1	18 35	Enif	33 46.0	N 9 56.7			
	1	222 48.4	195 14.0	N 11 20.7	S 2	5 24	5 57	18 1	18 34	Formalhaut	15 23.0	S 29 32.3			
	2	237 50.8	210 14.1	N 11 21.6	S 3	5 25	5 58	18 0	18 33	Gacrux	171 58.9	S 57 12.0			
	3	252 53.3	225 14.3	N 11 22.4	S 4	5 25	5 59	17 59	18 32	Hadar	148 45.3	S 60 26.8			
	4	267 55.8	240 14.4	N 11 23.3	S 5	5 26	6 0	17 58	18 32	Hamal	327 59.7	N 23 31.9			
	5	282 58.2	255 14.5	N 11 24.1	S 6	5 27	6 1	17 57	18 31	Kaus Aust	83 42.0	S 34 22.3			
	6	298 0.7	270 14.7	N 11 25.0	S 7	5 28	6 1	17 56	18 30	Kochab	137 19.1	N 74 5.6			
	7	313 3.2	285 14.8	N 11 25.9	S 8	5 28	6 2	17 56	18 29	Markab	13 37.3	N 15 17.2			
	8	328 5.6	300 14.9	N 11 26.7	S 9	5 29	6 3	17 55	18 28	Menkent	148 5.5	S 36 26.6			
	9	343 8.1	315 15.1	N 11 27.6	S 10	5 30	6 4	17 54	18 28	Miaplacidu	221 38.9	S 69 47.3			
	10	358 10.5	330 15.2	N 11 28.4	S 11	5 31	6 5	17 53	18 27	Mirfak	308 39.0	N 49 54.8			
	11	13 13.0	345 15.3	N 11 29.3	S 12	5 31	6 5	17 52	18 26	Nunki	75 56.7	S 26 16.4			
	12	28 15.5	0 15.5	N 11 30.2	S 13	5 32	6 6	17 51	18 26	Peacock	53 17.4	S 56 40.7			
	13	43 17.9	15 15.6	N 11 31.0	S 14	5 33	6 7	17 51	18 25	Pollux	243 26.1	N 27 59.2			
	14	58 20.4	30 15.7	N 11 31.9	S 15	5 33	6 8	17 50	18 24	Procyon	244 58.3	N 5 11.1			
	15	73 22.9	45 15.9	N 11 32.7	S 20	5 37	6 12	17 45	18 21	Rasalhague	96 5.1	N 12 33.0			
	16	88 25.3	60 16.0	N 11 33.6	S 25	5 40	6 17	17 41	18 17	Regulus	207 42.0	N 11 53.4			
	17	103 27.8	75 16.1	N 11 34.4	S 30	5 43	6 22	17 36	18 14	Rigel	281 11.1	S 8 11.4			
	18	118 30.3	90 16.2	N 11 35.3	S 35	5 47	6 27	17 30	18 11	Rigel Kent	139 47.4	S 60 54.0			
	19	133 32.7	105 16.4	N 11 36.2	S 40	5 50	6 34	17 24	18 7	Schedar	349 39.5	N 56 37.1			
	20	148 35.2	120 16.5	N 11 37.0	S 45	5 54	6 41	17 16	18 4	Shaula	96 20.0	S 37 6.6			
	21	163 37.7	135 16.6	N 11 37.9	S 50	5 57	6 49	17 8	18 0	Sirius	258 32.6	S 16 44.3			
	22	178 40.1	150 16.8	N 11 38.7	S 55	6 1	7 0	16 57	17 56	Spica	158 29.6	S 11 14.5			
23	193 42.6	165 16.9	N 11 39.6	S 60	6 6	7 14	16 43	17 51	Vega	80 38.0	N 38 47.7				
Día	Sol							Luna							
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase						
19	m s	m s		h m					●						
20	0 43	0 49	0.9	11 59		0.3	0								
	0 56	1 2	0.9	11 59		1.4	2								

Tabla G. Martes 21 de abril – miércoles 22 de abril de 2015.


Día	TU	Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		Aries	Sol							Nombre	SHA	Dec.
		GHA	GHA	Dec.		h m	h m	h m	h m		° /	° /
21	h	° /	° /	° /	°	h m	h m	h m	h m		° /	° /
	0	208 45.0	180 17.0	N 11 40.4	N 60	3 4	4 24	19 34	20 56	Achernar	335 26.6	S 57 9.6
	1	223 47.5	195 17.1	N 11 41.3	N 55	3 36	4 41	19 17	20 23	Acrux	173 7.1	S 63 11.2
	2	238 50.0	210 17.3	N 11 42.1	N 50	3 58	4 54	19 4	20 1	Adhara	255 11.7	S 29 0.0
	3	253 52.4	225 17.4	N 11 43.0	N 45	4 14	5 4	18 54	19 44	Aldebaran	290 48.2	N 16 32.2
	4	268 54.9	240 17.5	N 11 43.8	N 40	4 27	5 13	18 45	19 31	Alioth	166 19.2	N 55 52.7
	5	283 57.4	255 17.7	N 11 44.7	N 35	4 38	5 20	18 38	19 20	Alkaid	152 57.5	N 49 14.3
	6	298 59.8	270 17.8	N 11 45.5	N 30	4 47	5 26	18 31	19 11	Alnair	27 42.5	S 46 52.9
	7	314 2.3	285 17.9	N 11 46.4	N 25	4 54	5 32	18 25	19 3	Alnilam	275 45.3	S 1 11.9
	8	329 4.8	300 18.0	N 11 47.2	N 20	5 1	5 37	18 20	18 56	Alphard	217 54.8	S 8 43.8
	9	344 7.2	315 18.2	N 11 48.1	N 15	5 7	5 42	18 15	18 50	Alpheratz	357 42.5	N 29 10.4
	10	359 9.7	330 18.3	N 11 48.9	N 14	5 8	5 43	18 14	18 49	Altair	62 7.1	N 8 54.5
	11	14 12.2	345 18.4	N 11 49.8	N 13	5 9	5 44	18 13	18 48	Antares	112 24.4	S 26 27.8
	12	29 14.6	0 18.5	N 11 50.6	N 12	5 10	5 45	18 12	18 47	Arcturus	145 54.0	N 19 6.7
	13	44 17.1	15 18.7	N 11 51.5	N 11	5 11	5 46	18 12	18 46	Atria	107 24.7	S 69 2.9
	14	59 19.5	30 18.8	N 11 52.3	N 10	5 12	5 47	18 11	18 45	Avior	234 17.4	S 59 34.0
	15	74 22.0	45 18.9	N 11 53.2	N 9	5 13	5 47	18 10	18 44	Bellatrix	278 30.9	N 6 21.5
	16	89 24.5	60 19.0	N 11 54.0	N 8	5 14	5 48	18 9	18 43	Betelgeuse	271 0.2	N 7 24.3
	17	104 26.9	75 19.2	N 11 54.9	N 7	5 15	5 49	18 8	18 42	Canopus	263 55.8	S 52 42.7
	18	119 29.4	90 19.3	N 11 55.7	N 6	5 16	5 50	18 7	18 41	Capella	280 33.0	N 46 0.8
	19	134 31.9	105 19.4	N 11 56.6	N 5	5 17	5 51	18 6	18 40	Deneb	49 30.6	N 45 19.9
	20	149 34.3	120 19.5	N 11 57.4	N 4	5 18	5 52	18 5	18 39	Denebola	182 32.0	N 14 29.1
	21	164 36.8	135 19.7	N 11 58.3	N 3	5 19	5 53	18 4	18 38	Dubhe	193 49.8	N 61 40.2
22	179 39.3	150 19.8	N 11 59.1	N 2	5 20	5 54	18 4	18 37	Elnath	278 11.3	N 28 37.1	
23	194 41.7	165 19.9	N 12 00.0	N 1	5 21	5 54	18 3	18 36	Eltanin	90 45.3	N 51 29.1	
				0	5 22	5 55	18 2	18 35				
22	0	209 44.2	180 20.0	N 12 0.8	S 1	5 23	5 56	18 1	18 34	Enif	33 46.0	N 9 56.7
	1	224 46.6	195 20.2	N 12 1.7	S 2	5 23	5 57	18 0	18 34	Formalhaut	15 23.0	S 29 32.3
	2	239 49.1	210 20.3	N 12 2.5	S 3	5 24	5 58	17 59	18 33	Gacrux	171 58.9	S 57 12.0
	3	254 51.6	225 20.4	N 12 3.3	S 4	5 25	5 59	17 58	18 32	Hadar	148 45.3	S 60 26.8
	4	269 54.0	240 20.5	N 12 4.2	S 5	5 26	6 0	17 57	18 31	Hamal	327 59.7	N 23 31.9
	5	284 56.5	255 20.7	N 12 5.0	S 6	5 27	6 0	17 57	18 30	Kaus Aust	83 42.0	S 34 22.3
	6	299 59.0	270 20.8	N 12 5.9	S 7	5 28	6 1	17 56	18 29	Kochab	137 19.1	N 74 5.6
	7	315 1.4	285 20.9	N 12 6.7	S 8	5 28	6 2	17 55	18 29	Markab	13 37.3	N 15 17.2
	8	330 3.9	300 21.0	N 12 7.6	S 9	5 29	6 3	17 54	18 28	Menkent	148 5.5	S 36 26.6
	9	345 6.4	315 21.2	N 12 8.4	S 10	5 30	6 4	17 53	18 27	Miaplacidu	221 38.9	S 69 47.3
	10	0 8.8	330 21.3	N 12 9.2	S 11	5 31	6 5	17 52	18 26	Mirfak	308 39.0	N 49 54.8
	11	15 11.3	345 21.4	N 12 10.1	S 12	5 31	6 6	17 51	18 25	Nunki	75 56.7	S 26 16.4
	12	30 13.8	0 21.5	N 12 10.9	S 13	5 32	6 6	17 50	18 25	Peacock	53 17.4	S 56 40.7
	13	45 16.2	15 21.6	N 12 11.8	S 14	5 33	6 7	17 49	18 24	Pollux	243 26.1	N 27 59.2
	14	60 18.7	30 21.8	N 12 12.6	S 15	5 34	6 8	17 49	18 23	Procyon	244 58.3	N 5 11.1
	15	75 21.1	45 21.9	N 12 13.5	S 20	5 37	6 13	17 44	18 19	Rasalhague	96 5.1	N 12 33.0
	16	90 23.6	60 22.0	N 12 14.3	S 25	5 41	6 18	17 39	18 16	Regulus	207 42.0	N 11 53.4
	17	105 26.1	75 22.1	N 12 15.1	S 30	5 45	6 23	17 34	18 12	Rigel	281 11.1	S 8 11.4
	18	120 28.5	90 22.2	N 12 16.0	S 35	5 48	6 29	17 28	18 8	Rigel Kent	139 47.4	S 60 54.0
	19	135 31.0	105 22.4	N 12 16.8	S 40	5 52	6 36	17 21	18 5	Schedar	349 39.5	N 56 37.1
	20	150 33.5	120 22.5	N 12 17.6	S 45	5 56	6 43	17 13	18 1	Shaula	96 20.0	S 37 6.6
	21	165 35.9	135 22.6	N 12 18.5	S 50	6 0	6 52	17 4	17 56	Sirius	258 32.6	S 16 44.3
	22	180 38.4	150 22.7	N 12 19.3	S 55	6 5	7 4	16 52	17 51	Spica	158 29.6	S 11 14.5
23	195 40.9	165 22.8	N 12 20.2	S 60	6 10	7 19	16 37	17 46	Vega	80 38.0	N 38 47.7	
Sol												
Día	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase			
	m s	m s		h m								
21	1 8	1 14	0.9	11 59		2.5	6					
22	1 20	1 26	0.8	11 59		3.6	13					

Tabla G. Jueves 23 de abril – viernes 24 de abril de 2015.

Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas			
		GHA	GHA	Dec.	Nombre	SHA	Dec.									
	h	° / ' / "	° / ' / "	° / ' / "	°	h	m	h	m	h	m	h	m		° / ' / "	° / ' / "
23	0	210 43.3	180 23.0	N 12 21.0	N 60	2 57	4 19	19 39	21 2	Achernar	335 26.6	S 57 9.6				
	1	225 45.8	195 23.1	N 12 21.8	N 55	3 30	4 37	19 21	20 28	Acruz	173 7.1	S 63 11.2				
	2	240 48.3	210 23.2	N 12 22.7	N 50	3 53	4 50	19 7	20 4	Adhara	255 11.7	S 29 0.0				
	3	255 50.7	225 23.3	N 12 23.5	N 45	4 10	5 1	18 56	19 47	Aldebaran	290 48.2	N 16 32.2				
	4	270 53.2	240 23.4	N 12 24.3	N 40	4 24	5 10	18 47	19 33	Alioth	166 19.2	N 55 52.7				
	5	285 55.6	255 23.6	N 12 25.2	N 35	4 35	5 18	18 39	19 22	Alkaid	152 57.5	N 49 14.3				
	6	300 58.1	270 23.7	N 12 26.0	N 30	4 45	5 24	18 32	19 12	Alnair	27 42.5	S 46 52.9				
	7	316 0.6	285 23.8	N 12 26.9	N 25	4 53	5 30	18 26	19 4	Alnilam	275 45.3	S 1 11.9				
	8	331 3.0	300 23.9	N 12 27.7	N 20	5 0	5 36	18 21	18 57	Alphard	217 54.8	S 8 43.8				
	9	346 5.5	315 24.0	N 12 28.5	N 15	5 6	5 41	18 16	18 51	Alpheratz	357 42.5	N 29 10.4				
	10	1 8.0	330 24.2	N 12 29.4	N 14	5 7	5 42	18 15	18 50	Altair	62 7.1	N 8 54.5				
	11	16 10.4	345 24.3	N 12 30.2	N 13	5 8	5 43	18 14	18 48	Antares	112 24.4	S 26 27.8				
	12	31 12.9	0 24.4	N 12 31.0	N 12	5 9	5 44	18 13	18 47	Arcturus	145 54.0	N 19 6.7				
	13	46 15.4	15 24.5	N 12 31.9	N 11	5 10	5 45	18 12	18 46	Atria	107 24.6	S 69 2.9				
	14	61 17.8	30 24.6	N 12 32.7	N 10	5 11	5 46	18 11	18 45	Avior	234 17.4	S 59 34.0				
	15	76 20.3	45 24.7	N 12 33.5	N 9	5 12	5 47	18 10	18 44	Bellatrix	278 30.9	N 6 21.5				
	16	91 22.7	60 24.9	N 12 34.3	N 8	5 14	5 48	18 9	18 43	Betelgeuse	271 0.2	N 7 24.3				
	17	106 25.2	75 25.0	N 12 35.2	N 7	5 15	5 48	18 8	18 42	Canopus	263 55.9	S 52 42.7				
	18	121 27.7	90 25.1	N 12 36.0	N 6	5 16	5 49	18 7	18 41	Capella	280 33.0	N 46 0.8				
	19	136 30.1	105 25.2	N 12 36.8	N 5	5 17	5 50	18 6	18 40	Deneb	49 30.6	N 45 20.0				
	20	151 32.6	120 25.3	N 12 37.7	N 4	5 18	5 51	18 5	18 39	Denebola	182 32.0	N 14 29.1				
	21	166 35.1	135 25.4	N 12 38.5	N 3	5 18	5 52	18 4	18 38	Dubhe	193 49.8	N 61 40.2				
	22	181 37.5	150 25.5	N 12 39.3	N 2	5 19	5 53	18 3	18 37	Elnath	278 11.3	N 28 37.1				
23	196 40.0	165 25.7	N 12 40.2	N 1	5 20	5 54	18 2	18 36	Eltanin	90 45.2	N 51 29.1					
24	0	211 42.5	180 25.8	N 12 41.0	S 1	5 22	5 56	18 1	18 35	Enif	33 46.0	N 9 56.7				
	1	226 44.9	195 25.9	N 12 41.8	S 2	5 23	5 57	18 0	18 33	Formalhaut	15 23.0	S 29 32.3				
	2	241 47.4	210 26.0	N 12 42.6	S 3	5 24	5 58	17 59	18 32	Gacrux	171 58.9	S 57 12.0				
	3	256 49.9	225 26.1	N 12 43.5	S 4	5 25	5 58	17 58	18 31	Hadar	148 45.3	S 60 26.8				
	4	271 52.3	240 26.2	N 12 44.3	S 5	5 26	5 59	17 57	18 31	Hamal	327 59.7	N 23 31.9				
	5	286 54.8	255 26.3	N 12 45.1	S 6	5 27	6 0	17 56	18 30	Kaus Aust	83 42.0	S 34 22.3				
	6	301 57.2	270 26.5	N 12 45.9	S 7	5 27	6 1	17 55	18 29	Kochab	137 19.1	N 74 5.6				
	7	316 59.7	285 26.6	N 12 46.8	S 8	5 28	6 2	17 54	18 28	Markab	13 37.3	N 15 17.2				
	8	332 2.2	300 26.7	N 12 47.6	S 9	5 29	6 3	17 53	18 27	Menkent	148 5.5	S 36 26.6				
	9	347 4.6	315 26.8	N 12 48.4	S 10	5 30	6 4	17 52	18 26	Miaplacidu	221 38.9	S 69 47.3				
	10	2 7.1	330 26.9	N 12 49.3	S 11	5 31	6 5	17 51	18 25	Mirfak	308 39.0	N 49 54.8				
	11	17 9.6	345 27.0	N 12 50.1	S 12	5 32	6 6	17 50	18 25	Nunki	75 56.6	S 26 16.4				
	12	32 12.0	0 27.1	N 12 50.9	S 13	5 32	6 7	17 49	18 24	Peacock	53 17.4	S 56 40.7				
	13	47 14.5	15 27.3	N 12 51.7	S 14	5 33	6 8	17 48	18 23	Pollux	243 26.1	N 27 59.2				
	14	62 17.0	30 27.4	N 12 52.5	S 15	5 34	6 9	17 47	18 22	Procyon	244 58.3	N 5 11.1				
	15	77 19.4	45 27.5	N 12 53.4	S 20	5 38	6 14	17 42	18 18	Rasalhague	96 5.1	N 12 33.0				
	16	92 21.9	60 27.6	N 12 54.2	S 25	5 42	6 19	17 37	18 14	Regulus	207 42.0	N 11 53.4				
	17	107 24.4	75 27.7	N 12 55.0	S 30	5 46	6 24	17 32	18 10	Rigel	281 11.1	S 8 11.4				
	18	122 26.8	90 27.8	N 12 55.8	S 35	5 50	6 31	17 25	18 6	Rigel Kent	139 47.4	S 60 54.0				
	19	137 29.3	105 27.9	N 12 56.7	S 40	5 54	6 38	17 18	18 2	Schedar	349 39.5	N 56 37.1				
	20	152 31.7	120 28.0	N 12 57.5	S 45	5 58	6 46	17 10	17 58	Shaula	96 19.9	S 37 6.6				
	21	167 34.2	135 28.1	N 12 58.3	S 50	6 3	6 56	17 0	17 53	Sirius	258 32.6	S 16 44.3				
	22	182 36.7	150 28.3	N 12 59.1	S 55	6 8	7 8	16 48	17 47	Spica	158 29.6	S 11 14.5				
23	197 39.1	165 28.4	N 12 59.9	S 60	6 15	7 24	16 32	17 41	Vega	80 38.0	N 38 47.7					
Día	Sol				Luna											
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día	Porcentaje de iluminación	Fase									
23	m s	m s		h m												
24	1 32	1 38	0.8	11 58	4.7	21										
	1 43	1 49	0.8	11 58	5.7	30										

Tabla G. Sábado 25 de abril – domingo 26 de abril de 2015.


Día	TU	Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		Aries	Sol							Nombre	SHA	Dec.
		GHA	GHA	Dec.								
		° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m		° / ' / "	° / ' / "
25	h				°	h m	h m	h m	h m			
	0	212 41.6	180 28.5	N 13 0.8	N 60	2 49	4 13	19 44	21 9	Achernar	335 26.6	S 57 9.6
	1	227 44.1	195 28.6	N 13 1.6	N 55	3 25	4 32	19 25	20 33	Acrux	173 7.1	S 63 11.2
	2	242 46.5	210 28.7	N 13 2.4	N 50	3 49	4 46	19 10	20 8	Adhara	255 11.7	S 29 0.0
	3	257 49.0	225 28.8	N 13 3.2	N 45	4 7	4 58	18 59	19 50	Aldebaran	290 48.2	N 16 32.2
	4	272 51.5	240 28.9	N 13 4.0	N 40	4 21	5 7	18 49	19 35	Alioth	166 19.2	N 55 52.7
	5	287 53.9	255 29.0	N 13 4.9	N 35	4 33	5 15	18 41	19 24	Alkaid	152 57.5	N 49 14.3
	6	302 56.4	270 29.1	N 13 5.7	N 30	4 42	5 22	18 34	19 14	Alnair	27 42.5	S 46 52.9
	7	317 58.9	285 29.2	N 13 6.5	N 25	4 51	5 29	18 27	19 5	Alnilam	275 45.3	S 1 11.9
	8	333 1.3	300 29.4	N 13 7.3	N 20	4 58	5 34	18 22	18 58	Alphard	217 54.8	S 8 43.8
	9	348 3.8	315 29.5	N 13 8.1	N 15	5 5	5 40	18 16	18 51	Alpheratz	357 42.5	N 29 10.4
	10	3 6.2	330 29.6	N 13 8.9	N 14	5 6	5 41	18 15	18 50	Altair	62 7.1	N 8 54.5
	11	18 8.7	345 29.7	N 13 9.8	N 13	5 7	5 42	18 14	18 49	Antares	112 24.4	S 26 27.8
	12	33 11.2	0 29.8	N 13 10.6	N 12	5 8	5 43	18 13	18 48	Arcturus	145 54.0	N 19 6.7
	13	48 13.6	15 29.9	N 13 11.4	N 11	5 9	5 44	18 12	18 46	Atria	107 24.6	S 69 2.9
	14	63 16.1	30 30.0	N 13 12.2	N 10	5 10	5 45	18 11	18 45	Avior	234 17.4	S 59 34.0
	15	78 18.6	45 30.1	N 13 13.0	N 9	5 12	5 46	18 10	18 44	Bellatrix	278 30.9	N 6 21.5
	16	93 21.0	60 30.2	N 13 13.8	N 8	5 13	5 47	18 9	18 43	Betelgeuse	271 0.2	N 7 24.3
	17	108 23.5	75 30.3	N 13 14.6	N 7	5 14	5 48	18 8	18 42	Canopus	263 55.9	S 52 42.7
	18	123 26.0	90 30.4	N 13 15.4	N 6	5 15	5 49	18 7	18 41	Capella	280 33.0	N 46 0.8
	19	138 28.4	105 30.5	N 13 16.3	N 5	5 16	5 50	18 6	18 40	Deneb	49 30.6	N 45 20.0
	20	153 30.9	120 30.6	N 13 17.1	N 4	5 17	5 51	18 5	18 39	Denebola	182 32.0	N 14 29.1
	21	168 33.3	135 30.7	N 13 17.9	N 3	5 18	5 52	18 4	18 38	Dubhe	193 49.8	N 61 40.2
22	183 35.8	150 30.8	N 13 18.7	N 2	5 19	5 53	18 3	18 37	Elnath	278 11.3	N 28 37.1	
23	198 38.3	165 31.0	N 13 19.5	N 1	5 20	5 54	18 2	18 36	Eltanin	90 45.2	N 51 29.1	
					0	5 21	5 54	18 1	18 35			
					S 1	5 22	5 55	18 0	18 34	Enif	33 46.0	N 9 56.7
					S 2	5 23	5 56	17 59	18 33	Formalhaut	15 23.0	S 29 32.3
					S 3	5 24	5 57	17 58	18 32	Gacrux	171 58.9	S 57 12.0
					S 4	5 25	5 58	17 57	18 31	Hadar	148 45.3	S 60 26.8
					S 5	5 26	5 59	17 56	18 30	Hamal	327 59.7	N 23 31.9
					S 6	5 26	6 0	17 55	18 29	Kaus Aust	83 41.9	S 34 22.3
					S 7	5 27	6 1	17 54	18 28	Kochab	137 19.0	N 74 5.6
					S 8	5 28	6 2	17 53	18 27	Markab	13 37.3	N 15 17.2
					S 9	5 29	6 3	17 52	18 26	Menkent	148 5.5	S 36 26.6
					S 10	5 30	6 4	17 51	18 26	Miaplacidu	221 39.0	S 69 47.3
					S 11	5 31	6 5	17 50	18 25	Mirfak	308 39.0	N 49 54.8
					S 12	5 32	6 6	17 49	18 24	Nunki	75 56.6	S 26 16.4
					S 13	5 33	6 7	17 48	18 23	Peacock	53 17.3	S 56 40.7
					S 14	5 33	6 8	17 47	18 22	Pollux	243 26.1	N 27 59.2
					S 15	5 34	6 9	17 46	18 21	Procyon	244 58.3	N 5 11.1
					S 20	5 38	6 14	17 41	18 17	Rasalhague	96 5.1	N 12 33.0
					S 25	5 43	6 20	17 36	18 13	Regulus	207 42.0	N 11 53.4
					S 30	5 47	6 26	17 30	18 8	Rigel	281 11.1	S 8 11.4
					S 35	5 51	6 32	17 23	18 4	Rigel Kent	139 47.4	S 60 54.0
					S 40	5 56	6 40	17 15	17 59	Schedar	349 39.5	N 56 37.1
					S 45	6 0	6 48	17 7	17 55	Shaula	96 19.9	S 37 6.6
					S 50	6 6	6 59	16 56	17 49	Sirius	258 32.6	S 16 44.3
					S 55	6 12	7 11	16 43	17 43	Spica	158 29.6	S 11 14.5
					S 60	6 19	7 28	16 26	17 36	Vega	80 38.0	N 38 47.7
Día		Sol			Luna							
		Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día	Porcentaje de iluminación	Fase				
		m s	m s		h m							
25		1 54	1 59	0.8	11 58	6.7	40					
26		2 4	2 9	0.8	11 58	7.7	50					

Tabla G. Lunes 27 de abril – martes 28 de abril de 2015.

Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
	h	° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m	h m	h m		° / ' / "	° / ' / "	
27	0	214 39.9	180 33.5	N 13 39.7	N 60	2 42	4 7	19 49	21 16	Achernar	335 26.6	S 57 9.6			
	1	229 42.3	195 33.6	N 13 40.5	N 55	3 19	4 28	19 29	20 38	Acruz	173 7.1	S 63 11.2			
	2	244 44.8	210 33.7	N 13 41.3	N 50	3 44	4 43	19 13	20 12	Adhara	255 11.7	S 29 0.0			
	3	259 47.3	225 33.8	N 13 42.1	N 45	4 3	4 55	19 1	19 53	Aldebaran	290 48.2	N 16 32.2			
	4	274 49.7	240 33.9	N 13 42.9	N 40	4 18	5 5	18 51	19 38	Alioth	166 19.2	N 55 52.7			
	5	289 52.2	255 34.0	N 13 43.7	N 35	4 30	5 13	18 43	19 25	Alkaid	152 57.5	N 49 14.3			
	6	304 54.7	270 34.1	N 13 44.5	N 30	4 40	5 20	18 35	19 15	Alnair	27 42.5	S 46 52.9			
	7	319 57.1	285 34.2	N 13 45.3	N 25	4 49	5 27	18 28	19 6	Alnilam	275 45.3	S 1 11.9			
	8	334 59.6	300 34.3	N 13 46.1	N 20	4 57	5 33	18 22	18 59	Alphard	217 54.8	S 8 43.8			
	9	350 2.1	315 34.4	N 13 46.9	N 15	5 3	5 39	18 16	18 52	Alpheratz	357 42.5	N 29 10.4			
	10	5 4.5	330 34.5	N 13 47.6	N 14	5 5	5 40	18 15	18 51	Altair	62 7.1	N 8 54.5			
	11	20 7.0	345 34.6	N 13 48.4	N 13	5 6	5 41	18 14	18 49	Antares	112 24.4	S 26 27.8			
	12	35 9.4	0 34.7	N 13 49.2	N 12	5 7	5 42	18 13	18 48	Arcturus	145 54.0	N 19 6.7			
	13	50 11.9	15 34.8	N 13 50.0	N 11	5 8	5 43	18 12	18 47	Atria	107 24.6	S 69 2.9			
	14	65 14.4	30 34.9	N 13 50.8	N 10	5 10	5 44	18 11	18 46	Avior	234 17.5	S 59 34.0			
	15	80 16.8	45 35.0	N 13 51.6	N 9	5 11	5 45	18 10	18 44	Bellatrix	278 30.9	N 6 21.5			
	16	95 19.3	60 35.1	N 13 52.4	N 8	5 12	5 46	18 9	18 43	Betelgeuse	271 0.2	N 7 24.3			
	17	110 21.8	75 35.2	N 13 53.2	N 7	5 13	5 47	18 8	18 42	Canopus	263 55.9	S 52 42.7			
	18	125 24.2	90 35.3	N 13 54.0	N 6	5 14	5 48	18 7	18 41	Capella	280 33.0	N 46 0.8			
	19	140 26.7	105 35.4	N 13 54.8	N 5	5 15	5 49	18 6	18 40	Deneb	49 30.6	N 45 20.0			
	20	155 29.2	120 35.5	N 13 55.6	N 4	5 16	5 50	18 5	18 39	Denebola	182 32.0	N 14 29.1			
	21	170 31.6	135 35.6	N 13 56.4	N 3	5 17	5 51	18 4	18 38	Dubhe	193 49.8	N 61 40.2			
	22	185 34.1	150 35.7	N 13 57.2	N 2	5 18	5 52	18 3	18 37	Elnath	278 11.3	N 28 37.0			
23	200 36.6	165 35.8	N 13 58.0	N 1	5 19	5 53	18 2	18 36	Eltanin	90 45.2	N 51 29.2				
28	0	215 39.0	180 35.9	N 13 58.8	S 1	5 21	5 55	18 0	18 34	Enif	33 46.0	N 9 56.7			
	1	230 41.5	195 36.0	N 13 59.6	S 2	5 22	5 56	17 59	18 33	Formalhaut	15 23.0	S 29 32.3			
	2	245 43.9	210 36.1	N 14 0.4	S 3	5 23	5 57	17 58	18 32	Gacrux	171 58.9	S 57 12.1			
	3	260 46.4	225 36.2	N 14 1.1	S 4	5 24	5 58	17 57	18 31	Hadar	148 45.3	S 60 26.8			
	4	275 48.9	240 36.3	N 14 1.9	S 5	5 25	5 59	17 56	18 30	Hamal	327 59.7	N 23 31.9			
	5	290 51.3	255 36.3	N 14 2.7	S 6	5 26	6 0	17 55	18 29	Kaus Aust	83 41.9	S 34 22.3			
	6	305 53.8	270 36.4	N 14 3.5	S 7	5 27	6 1	17 54	18 28	Kochab	137 19.0	N 74 5.6			
	7	320 56.3	285 36.5	N 14 4.3	S 8	5 28	6 2	17 53	18 27	Markab	13 37.3	N 15 17.2			
	8	335 58.7	300 36.6	N 14 5.1	S 9	5 29	6 3	17 51	18 26	Menkent	148 5.5	S 36 26.6			
	9	351 1.2	315 36.7	N 14 5.9	S 10	5 30	6 4	17 51	18 25	Miaplacidu	221 39.0	S 69 47.3			
	10	6 3.7	330 36.8	N 14 6.7	S 11	5 31	6 5	17 50	18 24	Mirfak	308 39.0	N 49 54.7			
	11	21 6.1	345 36.9	N 14 7.5	S 12	5 32	6 6	17 49	18 23	Nunki	75 56.6	S 26 16.4			
	12	36 8.6	0 37.0	N 14 8.2	S 13	5 33	6 7	17 47	18 22	Peacock	53 17.3	S 56 40.7			
	13	51 11.1	15 37.1	N 14 9.0	S 14	5 34	6 8	17 46	18 21	Pollux	243 26.1	N 27 59.2			
	14	66 13.5	30 37.2	N 14 9.8	S 15	5 35	6 9	17 45	18 20	Procyon	244 58.3	N 5 11.1			
	15	81 16.0	45 37.3	N 14 10.6	S 20	5 39	6 15	17 40	18 16	Rasalhague	96 5.1	N 12 33.0			
	16	96 18.4	60 37.4	N 14 11.4	S 25	5 43	6 21	17 34	18 11	Regulus	207 42.0	N 11 53.4			
	17	111 20.9	75 37.5	N 14 12.2	S 30	5 48	6 27	17 28	18 7	Rigel	281 11.1	S 8 11.4			
	18	126 23.4	90 37.6	N 14 12.9	S 35	5 53	6 34	17 21	18 2	Rigel Kent	139 47.4	S 60 54.0			
	19	141 25.8	105 37.6	N 14 13.7	S 40	5 57	6 42	17 13	17 57	Schedar	349 39.5	N 56 37.1			
	20	156 28.3	120 37.7	N 14 14.5	S 45	6 3	6 51	17 4	17 52	Shaula	96 19.9	S 37 6.6			
	21	171 30.8	135 37.8	N 14 15.3	S 50	6 8	7 2	16 53	17 46	Sirius	258 32.6	S 16 44.3			
	22	186 33.2	150 37.9	N 14 16.1	S 55	6 15	7 15	16 39	17 39	Spica	158 29.6	S 11 14.5			
23	201 35.7	165 38.0	N 14 16.9	S 60	6 23	7 33	16 21	17 31	Vega	80 37.9	N 38 47.7				
Día	Sol						Luna								
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase						
27	m s	m s	h m		8.6	59									
28	2 14	2 19	11 58		9.5	68									

Tabla G. Miércoles 29 de abril – jueves 30 de abril de 2015.


Día	TU	Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		Aries	Sol							Nombre	SHA	Dec.
		GHA	GHA	Dec.		h m	h m	h m	h m		° / ' / "	° / ' / "
29	h	° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m		° / ' / "	° / ' / "
	0	216 38.2	180 38.1	N 14 17.6	N 60	2 34	4 2	19 54	21 24	Achernar	335 26.6	S 57 9.6
	1	231 40.6	195 38.2	N 14 18.4	N 55	3 14	4 23	19 33	20 43	Acrux	173 7.2	S 63 11.2
	2	246 43.1	210 38.3	N 14 19.2	N 50	3 40	4 39	19 16	20 16	Adhara	255 11.7	S 29 0.0
	3	261 45.5	225 38.4	N 14 20.0	N 45	4 0	4 52	19 4	19 56	Aldebaran	290 48.2	N 16 32.2
	4	276 48.0	240 38.5	N 14 20.8	N 40	4 15	5 2	18 53	19 40	Alioth	166 19.2	N 55 52.7
	5	291 50.5	255 38.5	N 14 21.6	N 35	4 28	5 11	18 44	19 27	Alkaid	152 57.5	N 49 14.3
	6	306 52.9	270 38.6	N 14 22.3	N 30	4 38	5 19	18 36	19 17	Alnair	27 42.4	S 46 52.9
	7	321 55.4	285 38.7	N 14 23.1	N 25	4 47	5 25	18 29	19 8	Alnilam	275 45.3	S 1 11.9
	8	336 57.9	300 38.8	N 14 23.9	N 20	4 55	5 32	18 23	19 0	Alphard	217 54.8	S 8 43.8
	9	352 0.3	315 38.9	N 14 24.7	N 15	5 2	5 38	18 17	18 52	Alpheratz	357 42.5	N 29 10.4
	10	7 2.8	330 39.0	N 14 25.4	N 14	5 4	5 39	18 16	18 51	Altair	62 7.1	N 8 54.5
	11	22 5.3	345 39.1	N 14 26.2	N 13	5 5	5 40	18 15	18 50	Antares	112 24.4	S 26 27.8
	12	37 7.7	0 39.2	N 14 27.0	N 12	5 6	5 41	18 14	18 48	Arcturus	145 54.0	N 19 6.7
	13	52 10.2	15 39.3	N 14 27.8	N 11	5 7	5 42	18 12	18 47	Atria	107 24.6	S 69 3.0
	14	67 12.7	30 39.3	N 14 28.6	N 10	5 9	5 43	18 11	18 46	Avior	234 17.5	S 59 34.0
	15	82 15.1	45 39.4	N 14 29.3	N 9	5 10	5 44	18 10	18 45	Bellatrix	278 30.9	N 6 21.5
	16	97 17.6	60 39.5	N 14 30.1	N 8	5 11	5 45	18 9	18 43	Betelgeuse	271 0.2	N 7 24.3
	17	112 20.0	75 39.6	N 14 30.9	N 7	5 12	5 46	18 8	18 42	Canopus	263 55.9	S 52 42.7
	18	127 22.5	90 39.7	N 14 31.7	N 6	5 13	5 48	18 7	18 41	Capella	280 33.0	N 46 0.8
	19	142 25.0	105 39.8	N 14 32.4	N 5	5 15	5 49	18 6	18 40	Deneb	49 30.6	N 45 20.0
	20	157 27.4	120 39.9	N 14 33.2	N 4	5 16	5 50	18 5	18 39	Denebola	182 32.0	N 14 29.1
	21	172 29.9	135 39.9	N 14 34.0	N 3	5 17	5 51	18 4	18 38	Dubhe	193 49.9	N 61 40.2
22	187 32.4	150 40.0	N 14 34.7	N 2	5 18	5 52	18 3	18 37	Elnath	278 11.3	N 28 37.0	
23	202 34.8	165 40.1	N 14 35.5	N 1	5 19	5 53	18 2	18 35	Eltanin	90 45.2	N 51 29.2	
30	0	217 37.3	180 40.2	N 14 36.3	S 1	5 21	5 55	17 59	18 33	Enif	33 46.0	N 9 56.7
	1	232 39.8	195 40.3	N 14 37.1	S 2	5 22	5 56	17 58	18 32	Formalhaut	15 22.9	S 29 32.3
	2	247 42.2	210 40.4	N 14 37.8	S 3	5 23	5 57	17 57	18 31	Gacrux	171 58.9	S 57 12.1
	3	262 44.7	225 40.5	N 14 38.6	S 4	5 24	5 58	17 56	18 30	Hadar	148 45.3	S 60 26.8
	4	277 47.2	240 40.5	N 14 39.4	S 5	5 25	5 59	17 55	18 29	Hamal	327 59.7	N 23 31.9
	5	292 49.6	255 40.6	N 14 40.1	S 6	5 26	6 0	17 54	18 28	Kaus Aust	83 41.9	S 34 22.3
	6	307 52.1	270 40.7	N 14 40.9	S 7	5 27	6 1	17 53	18 27	Kochab	137 19.0	N 74 5.6
	7	322 54.5	285 40.8	N 14 41.7	S 8	5 28	6 2	17 52	18 26	Markab	13 37.3	N 15 17.2
	8	337 57.0	300 40.9	N 14 42.5	S 9	5 29	6 3	17 51	18 25	Menkent	148 5.5	S 36 26.6
	9	352 59.5	315 41.0	N 14 43.2	S 10	5 30	6 4	17 50	18 24	Miaplacidu	221 39.0	S 69 47.3
	10	8 1.9	330 41.0	N 14 44.0	S 11	5 31	6 5	17 49	18 23	Mirfak	308 39.0	N 49 54.7
	11	23 4.4	345 41.1	N 14 44.8	S 12	5 32	6 7	17 48	18 22	Nunki	75 56.6	S 26 16.4
	12	38 6.9	0 41.2	N 14 45.5	S 13	5 33	6 8	17 47	18 21	Peacock	53 17.3	S 56 40.7
	13	53 9.3	15 41.3	N 14 46.3	S 14	5 34	6 9	17 46	18 20	Pollux	243 26.1	N 27 59.2
	14	68 11.8	30 41.4	N 14 47.1	S 15	5 35	6 10	17 44	18 19	Procyon	244 58.3	N 5 11.1
	15	83 14.3	45 41.4	N 14 47.8	S 20	5 40	6 16	17 39	18 15	Rasalhague	96 5.1	N 12 33.1
	16	98 16.7	60 41.5	N 14 48.6	S 25	5 44	6 22	17 33	18 10	Regulus	207 42.0	N 11 53.4
	17	113 19.2	75 41.6	N 14 49.3	S 30	5 49	6 28	17 26	18 5	Rigel	281 11.1	S 8 11.4
	18	128 21.6	90 41.7	N 14 50.1	S 35	5 54	6 35	17 19	18 0	Rigel Kent	139 47.3	S 60 54.0
	19	143 24.1	105 41.8	N 14 50.9	S 40	5 59	6 44	17 10	17 55	Schedar	349 39.5	N 56 37.1
	20	158 26.6	120 41.8	N 14 51.6	S 45	6 5	6 53	17 1	17 49	Shaula	96 19.9	S 37 6.6
	21	173 29.0	135 41.9	N 14 52.4	S 50	6 11	7 5	16 49	17 43	Sirius	258 32.6	S 16 44.3
	22	188 31.5	150 42.0	N 14 53.2	S 55	6 18	7 19	16 35	17 35	Spica	158 29.6	S 11 14.5
23	203 34.0	165 42.1	N 14 53.9	S 60	6 27	7 38	16 16	17 26	Vega	80 37.9	N 38 47.7	
Día	Sol				Luna							
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día	Porcentaje de iluminación		Fase				
29	m s	m s		h m								
30	2 33	2 37	0.8	11 57	10.3	77						
	2 41	2 45	0.8	11 57	11.2	84						

Tabla G. Viernes 1 de mayo – sábado 2 de mayo de 2015.


Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
	h	° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m	h m	h m	° / ' / "	° / ' / "	° / ' / "	
1	0	218 36.4	180 42.2	N 14 54.7	N 60	2 26	3 56	19 59	21 31	Achernar	335 26.6	S 57 9.6			
	1	233 38.9	195 42.2	N 14 55.5	N 55	3 8	4 19	19 36	20 48	Acrux	173 7.2	S 63 11.2			
	2	248 41.4	210 42.3	N 14 56.2	N 50	3 36	4 35	19 19	20 19	Adhara	255 11.7	S 29 0.0			
	3	263 43.8	225 42.4	N 14 57.0	N 45	3 56	4 49	19 6	19 59	Aldebaran	290 48.3	N 16 32.2			
	4	278 46.3	240 42.5	N 14 57.7	N 40	4 12	4 59	18 55	19 42	Alioth	166 19.3	N 55 52.7			
	5	293 48.8	255 42.6	N 14 58.5	N 35	4 25	5 9	18 46	19 29	Alkaid	152 57.5	N 49 14.3			
	6	308 51.2	270 42.6	N 14 59.3	N 30	4 36	5 17	18 38	19 18	Alnair	27 42.4	S 46 52.9			
	7	323 53.7	285 42.7	N 15 0.0	N 25	4 46	5 24	18 30	19 9	Alnilam	275 45.3	S 1 11.8			
	8	338 56.1	300 42.8	N 15 0.8	N 20	4 54	5 31	18 24	19 0	Alphard	217 54.8	S 8 43.8			
	9	353 58.6	315 42.9	N 15 1.5	N 15	5 1	5 37	18 17	18 53	Alpheratz	357 42.5	N 29 10.4			
	10	9 1.1	330 43.0	N 15 2.3	N 14	5 3	5 38	18 16	18 52	Altair	62 7.1	N 8 54.5			
	11	24 3.5	345 43.0	N 15 3.0	N 13	5 4	5 39	18 15	18 50	Antares	112 24.4	S 26 27.8			
	12	39 6.0	0 43.1	N 15 3.8	N 12	5 5	5 40	18 14	18 49	Arcturus	145 54.0	N 19 6.7			
	13	54 8.5	15 43.2	N 15 4.6	N 11	5 7	5 41	18 13	18 48	Atria	107 24.5	S 69 3.0			
	14	69 10.9	30 43.3	N 15 5.3	N 10	5 8	5 43	18 12	18 46	Avior	234 17.5	S 59 34.0			
	15	84 13.4	45 43.3	N 15 6.1	N 9	5 9	5 44	18 10	18 45	Bellatrix	278 30.9	N 6 21.5			
	16	99 15.9	60 43.4	N 15 6.8	N 8	5 10	5 45	18 9	18 44	Betelgeuse	271 0.2	N 7 24.3			
	17	114 18.3	75 43.5	N 15 7.6	N 7	5 12	5 46	18 8	18 42	Canopus	263 55.9	S 52 42.7			
	18	129 20.8	90 43.6	N 15 8.3	N 6	5 13	5 47	18 7	18 41	Capella	280 33.0	N 46 0.7			
	19	144 23.3	105 43.6	N 15 9.1	N 5	5 14	5 48	18 6	18 40	Deneb	49 30.5	N 45 20.0			
	20	159 25.7	120 43.7	N 15 9.8	N 4	5 15	5 49	18 5	18 39	Denebola	182 32.0	N 14 29.2			
	21	174 28.2	135 43.8	N 15 10.6	N 3	5 16	5 50	18 4	18 38	Dubhe	193 49.9	N 61 40.2			
	22	189 30.6	150 43.9	N 15 11.3	N 2	5 17	5 51	18 3	18 37	Elnath	278 11.3	N 28 37.0			
23	204 33.1	165 43.9	N 15 12.1	N 1	5 19	5 53	18 1	18 35	Eltanin	90 45.2	N 51 29.2				
					0	5 20	5 54	18 0	18 34						
2	0	219 35.6	180 44.0	N 15 12.8	S 1	5 21	5 55	17 59	18 33	Enif	33 46.0	N 9 56.7			
	1	234 38.0	195 44.1	N 15 13.6	S 2	5 22	5 56	17 58	18 32	Formalhaut	15 22.9	S 29 32.3			
	2	249 40.5	210 44.2	N 15 14.3	S 3	5 23	5 57	17 57	18 31	Gacrux	171 58.9	S 57 12.1			
	3	264 43.0	225 44.2	N 15 15.1	S 4	5 24	5 58	17 56	18 30	Hadar	148 45.3	S 60 26.8			
	4	279 45.4	240 44.3	N 15 15.8	S 5	5 25	5 59	17 55	18 29	Hamal	327 59.7	N 23 31.9			
	5	294 47.9	255 44.4	N 15 16.6	S 6	5 26	6 0	17 54	18 28	Kaus Aust	83 41.9	S 34 22.3			
	6	309 50.4	270 44.4	N 15 17.3	S 7	5 27	6 1	17 53	18 27	Kochab	137 19.0	N 74 5.6			
	7	324 52.8	285 44.5	N 15 18.1	S 8	5 28	6 2	17 51	18 26	Markab	13 37.3	N 15 17.2			
	8	339 55.3	300 44.6	N 15 18.8	S 9	5 29	6 4	17 50	18 24	Menkent	148 5.5	S 36 26.6			
	9	354 57.8	315 44.7	N 15 19.6	S 10	5 30	6 5	17 49	18 24	Miaplacidu	221 39.1	S 69 47.3			
	10	10 0.2	330 44.7	N 15 20.3	S 11	5 31	6 6	17 48	18 23	Mirfak	308 39.0	N 49 54.7			
	11	25 2.7	345 44.8	N 15 21.1	S 12	5 32	6 7	17 47	18 22	Nunki	75 56.6	S 26 16.4			
	12	40 5.1	0 44.9	N 15 21.8	S 13	5 33	6 8	17 46	18 21	Peacock	53 17.3	S 56 40.7			
	13	55 7.6	15 45.0	N 15 22.6	S 14	5 34	6 9	17 45	18 20	Pollux	243 26.2	N 27 59.2			
	14	70 10.1	30 45.0	N 15 23.3	S 15	5 35	6 10	17 43	18 19	Procyon	244 58.4	N 5 11.1			
	15	85 12.5	45 45.1	N 15 24.1	S 20	5 40	6 16	17 37	18 13	Rasalhague	96 5.1	N 12 33.1			
	16	100 15.0	60 45.2	N 15 24.8	S 25	5 45	6 23	17 31	18 8	Regulus	207 42.0	N 11 53.4			
	17	115 17.5	75 45.2	N 15 25.6	S 30	5 50	6 29	17 24	18 3	Rigel	281 11.1	S 8 11.4			
	18	130 19.9	90 45.3	N 15 26.3	S 35	5 55	6 37	17 17	17 58	Rigel Kent	139 47.3	S 60 54.0			
	19	145 22.4	105 45.4	N 15 27.0	S 40	6 1	6 46	17 8	17 52	Schedar	349 39.5	N 56 37.1			
	20	160 24.9	120 45.4	N 15 27.8	S 45	6 7	6 56	16 58	17 46	Shaula	96 19.9	S 37 6.6			
	21	175 27.3	135 45.5	N 15 28.5	S 50	6 14	7 8	16 46	17 39	Sirius	258 32.6	S 16 44.3			
	22	190 29.8	150 45.6	N 15 29.3	S 55	6 22	7 23	16 31	17 31	Spica	158 29.6	S 11 14.5			
23	205 32.2	165 45.6	N 15 30.0	S 60	6 31	7 43	16 10	17 22	Vega	80 37.9	N 38 47.8				
Día	Sol			Luna											
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase						
	m s	m s		h m											
1	2 49	2 53	0.8	11 57		12.0	90								
2	2 56	3 0	0.8	11 57		12.9	95								

Tabla G. Domingo 3 de mayo – lunes 4 de mayo de 2015.

Día	TU	Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		Aries	Sol							Nombre	SHA	Dec.
		GHA	GHA	Dec.		h m	h m	h m	h m		° / ' / "	° / ' / "
3	h				°							
	0	220 34.7	180 45.7	N 15 30.7	N 60	2 18	3 51	20 4	21 39	Achernar	335 26.6	S 57 9.6
	1	235 37.2	195 45.8	N 15 31.5	N 55	3 3	4 15	19 40	20 53	Acrux	173 7.2	S 63 11.2
	2	250 39.6	210 45.9	N 15 32.2	N 50	3 32	4 32	19 22	20 23	Adhara	255 11.7	S 29 00.0
	3	265 42.1	225 45.9	N 15 33.0	N 45	3 53	4 46	19 9	20 1	Aldebaran	290 48.3	N 16 32.2
	4	280 44.6	240 46.0	N 15 33.7	N 40	4 10	4 57	18 57	19 45	Alioth	166 19.3	N 55 52.7
	5	295 47.0	255 46.1	N 15 34.4	N 35	4 23	5 7	18 47	19 31	Alkaid	152 57.5	N 49 14.3
	6	310 49.5	270 46.1	N 15 35.2	N 30	4 34	5 15	18 39	19 20	Alnair	27 42.4	S 46 52.9
	7	325 52.0	285 46.2	N 15 35.9	N 25	4 44	5 23	18 31	19 10	Alnilam	275 45.4	S 1 11.8
	8	340 54.4	300 46.3	N 15 36.7	N 20	4 53	5 29	18 24	19 1	Alphard	217 54.8	S 8 43.8
	9	355 56.9	315 46.3	N 15 37.4	N 15	5 0	5 36	18 18	18 54	Alpheratz	357 42.5	N 29 10.4
	10	10 59.4	330 46.4	N 15 38.1	N 14	5 2	5 37	18 17	18 52	Altair	62 7.0	N 8 54.5
	11	26 1.8	345 46.5	N 15 38.9	N 13	5 3	5 38	18 15	18 51	Antares	112 24.4	S 26 27.8
	12	41 4.3	0 46.5	N 15 39.6	N 12	5 4	5 39	18 14	18 49	Arcturus	145 54.0	N 19 6.7
	13	56 6.7	15 46.6	N 15 40.3	N 11	5 6	5 41	18 13	18 48	Atria	107 24.5	S 69 3.0
	14	71 9.2	30 46.7	N 15 41.1	N 10	5 7	5 42	18 12	18 47	Avior	234 17.5	S 59 34.0
	15	86 11.7	45 46.7	N 15 41.8	N 9	5 8	5 43	18 11	18 45	Bellatrix	278 30.9	N 6 21.5
	16	101 14.1	60 46.8	N 15 42.5	N 8	5 10	5 44	18 9	18 44	Betelgeuse	271 0.2	N 7 24.3
	17	116 16.6	75 46.8	N 15 43.3	N 7	5 11	5 45	18 8	18 43	Canopus	263 55.9	S 52 42.7
	18	131 19.1	90 46.9	N 15 44.0	N 6	5 12	5 47	18 7	18 41	Capella	280 33.0	N 46 0.7
	19	146 21.5	105 47.0	N 15 44.7	N 5	5 13	5 48	18 6	18 40	Deneb	49 30.5	N 45 20.0
	20	161 24.0	120 47.0	N 15 45.5	N 4	5 15	5 49	18 5	18 39	Denebola	182 32.1	N 14 29.2
	21	176 26.5	135 47.1	N 15 46.2	N 3	5 16	5 50	18 4	18 38	Dubhe	193 49.9	N 61 40.2
22	191 28.9	150 47.2	N 15 46.9	N 2	5 17	5 51	18 2	18 37	Elnath	278 11.3	N 28 37.0	
23	206 31.4	165 47.2	N 15 47.7	N 1	5 18	5 52	18 1	18 35	Eltanin	90 45.2	N 51 29.2	
4	0	221 33.9	180 47.3	N 15 48.4	S 1	5 20	5 55	17 59	18 33	Enif	33 45.9	N 9 56.7
	1	236 36.3	195 47.4	N 15 49.1	S 2	5 22	5 56	17 58	18 32	Formalhaut	15 22.9	S 29 32.3
	2	251 38.8	210 47.4	N 15 49.8	S 3	5 23	5 57	17 57	18 31	Gacrux	171 58.9	S 57 12.1
	3	266 41.2	225 47.5	N 15 50.6	S 4	5 24	5 58	17 56	18 30	Hadar	148 45.3	S 60 26.8
	4	281 43.7	240 47.5	N 15 51.3	S 5	5 25	5 59	17 54	18 29	Hamal	327 59.7	N 23 31.9
	5	296 46.2	255 47.6	N 15 52.0	S 6	5 26	6 0	17 53	18 27	Kaus Aust	83 41.9	S 34 22.3
	6	311 48.6	270 47.7	N 15 52.8	S 7	5 27	6 1	17 52	18 26	Kochab	137 19.0	N 74 5.7
	7	326 51.1	285 47.7	N 15 53.5	S 8	5 28	6 3	17 51	18 25	Markab	13 37.2	N 15 17.2
	8	341 53.6	300 47.8	N 15 54.2	S 9	5 29	6 4	17 50	18 24	Menkent	148 5.5	S 36 26.6
	9	356 56.0	315 47.8	N 15 54.9	S 10	5 30	6 5	17 49	18 23	Miaplacidu	221 39.1	S 69 47.3
	10	11 58.5	330 47.9	N 15 55.7	S 11	5 31	6 6	17 47	18 22	Mirfak	308 39.0	N 49 54.7
	11	27 1.0	345 48.0	N 15 56.4	S 12	5 32	6 7	17 46	18 21	Nunki	75 56.6	S 26 16.4
	12	42 3.4	0 48.0	N 15 57.1	S 13	5 34	6 8	17 45	18 20	Peacock	53 17.2	S 56 40.7
	13	57 5.9	15 48.1	N 15 57.8	S 14	5 35	6 10	17 44	18 19	Pollux	243 26.2	N 27 59.2
	14	72 8.3	30 48.1	N 15 58.6	S 15	5 36	6 11	17 43	18 18	Procyon	244 58.4	N 5 11.1
	15	87 10.8	45 48.2	N 15 59.3	S 20	5 41	6 17	17 36	18 12	Rasalhague	96 5.1	N 12 33.1
	16	102 13.3	60 48.3	N 16 0.0	S 25	5 46	6 24	17 30	18 7	Regulus	207 42.0	N 11 53.4
	17	117 15.7	75 48.3	N 16 0.7	S 30	5 51	6 31	17 23	18 2	Rigel	281 11.1	S 8 11.4
	18	132 18.2	90 48.4	N 16 1.5	S 35	5 57	6 39	17 15	17 56	Rigel Kent	139 47.3	S 60 54.0
	19	147 20.7	105 48.4	N 16 2.2	S 40	6 3	6 48	17 6	17 50	Schedar	349 39.5	N 56 37.0
	20	162 23.1	120 48.5	N 16 2.9	S 45	6 9	6 58	16 55	17 44	Shaula	96 19.9	S 37 6.6
	21	177 25.6	135 48.6	N 16 3.6	S 50	6 17	7 11	16 42	17 36	Sirius	258 32.7	S 16 44.3
	22	192 28.1	150 48.6	N 16 4.3	S 55	6 25	7 26	16 26	17 28	Spica	158 29.6	S 11 14.5
23	207 30.5	165 48.7	N 16 5.1	S 60	6 35	7 47	16 5	17 17	Vega	80 37.9	N 38 47.8	
Día	Sol				Luna							
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día	Porcentaje de iluminación		Fase				
3	m s	m s		h m								
4	3 3	3 6	0.7	11 57	13.8	98						
	3 9	3 12	0.7	11 57	14.7	99						

Tabla G. Martes 5 de mayo – miércoles 6 de mayo de 2015.

Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
	h	° / ' / "	° / ' / "	° / ' / "	°	h	m	h	m	h	m	h	m	° / ' / "	° / ' / "
5	0	222 33.0	180 48.7	N 16 5.8	N 60	2 10	3 46	20 9	21 47	Achernar	335 26.6	S 57 9.5			
	1	237 35.5	195 48.8	N 16 6.5	N 55	2 57	4 10	19 44	20 58	Acrux	173 7.2	S 63 11.3			
	2	252 37.9	210 48.8	N 16 7.2	N 50	3 28	4 29	19 26	20 27	Adhara	255 11.7	S 29 00.0			
	3	267 40.4	225 48.9	N 16 7.9	N 45	3 50	4 43	19 11	20 4	Aldebaran	290 48.3	N 16 32.2			
	4	282 42.8	240 49.0	N 16 8.6	N 40	4 7	4 55	18 59	19 47	Alioth	166 19.3	N 55 52.7			
	5	297 45.3	255 49.0	N 16 9.4	N 35	4 21	5 5	18 49	19 33	Alkaid	152 57.5	N 49 14.3			
	6	312 47.8	270 49.1	N 16 10.1	N 30	4 33	5 13	18 40	19 21	Alnair	27 42.4	S 46 52.9			
	7	327 50.2	285 49.1	N 16 10.8	N 25	4 43	5 21	18 32	19 11	Alnilam	275 45.4	S 1 11.8			
	8	342 52.7	300 49.2	N 16 11.5	N 20	4 51	5 28	18 25	19 2	Alphard	217 54.8	S 8 43.8			
	9	357 55.2	315 49.2	N 16 12.2	N 15	4 59	5 35	18 18	18 54	Alpheratz	357 42.4	N 29 10.4			
	10	12 57.6	330 49.3	N 16 12.9	N 14	5 1	5 36	18 17	18 53	Altair	62 7.0	N 8 54.5			
	11	28 0.1	345 49.3	N 16 13.7	N 13	5 2	5 37	18 16	18 51	Antares	112 24.3	S 26 27.8			
	12	43 2.6	0 49.4	N 16 14.4	N 12	5 4	5 39	18 15	18 50	Arcturus	145 54.0	N 19 6.7			
	13	58 5.0	15 49.4	N 16 15.1	N 11	5 5	5 40	18 13	18 48	Atria	107 24.5	S 69 3.0			
	14	73 7.5	30 49.5	N 16 15.8	N 10	5 6	5 41	18 12	18 47	Avior	234 17.6	S 59 34.0			
	15	88 10.0	45 49.5	N 16 16.5	N 9	5 8	5 42	18 11	18 46	Bellatrix	278 30.9	N 6 21.5			
	16	103 12.4	60 49.6	N 16 17.2	N 8	5 9	5 44	18 10	18 44	Betelgeuse	271 0.2	N 7 24.3			
	17	118 14.9	75 49.7	N 16 17.9	N 7	5 10	5 45	18 8	18 43	Canopus	263 55.9	S 52 42.7			
	18	133 17.3	90 49.7	N 16 18.6	N 6	5 12	5 46	18 7	18 42	Capella	280 33.0	N 46 0.7			
	19	148 19.8	105 49.8	N 16 19.3	N 5	5 13	5 47	18 6	18 40	Deneb	49 30.5	N 45 20.0			
	20	163 22.3	120 49.8	N 16 20.1	N 4	5 14	5 48	18 5	18 39	Denebola	182 32.1	N 14 29.2			
	21	178 24.7	135 49.9	N 16 20.8	N 3	5 15	5 50	18 4	18 38	Dubhe	193 49.9	N 61 40.3			
	22	193 27.2	150 49.9	N 16 21.5	N 2	5 17	5 51	18 2	18 37	Elnath	278 11.3	N 28 37.0			
23	208 29.7	165 50.0	N 16 22.2	N 1	5 18	5 52	18 1	18 35	Eltanin	90 45.2	N 51 29.2				
	0				0	5 19	5 53	18 0	18 34						
6	0	223 32.1	180 50.0	N 16 22.9	S 1	5 20	5 54	17 59	18 33	Enif	33 45.9	N 9 56.7			
	1	238 34.6	195 50.1	N 16 23.6	S 2	5 21	5 56	17 58	18 32	Formalhaut	15 22.9	S 29 32.3			
	2	253 37.1	210 50.1	N 16 24.3	S 3	5 23	5 57	17 56	18 31	Gacrux	171 58.9	S 57 12.1			
	3	268 39.5	225 50.2	N 16 25.0	S 4	5 24	5 58	17 55	18 29	Hadar	148 45.3	S 60 26.8			
	4	283 42.0	240 50.2	N 16 25.7	S 5	5 25	5 59	17 54	18 28	Hamal	327 59.7	N 23 31.9			
	5	298 44.4	255 50.3	N 16 26.4	S 6	5 26	6 0	17 53	18 27	Kaus Aust	83 41.9	S 34 22.3			
	6	313 46.9	270 50.3	N 16 27.1	S 7	5 27	6 1	17 52	18 26	Kochab	137 19.0	N 74 5.7			
	7	328 49.4	285 50.4	N 16 27.8	S 8	5 28	6 3	17 50	18 25	Markab	13 37.2	N 15 17.2			
	8	343 51.8	300 50.4	N 16 28.5	S 9	5 30	6 4	17 49	18 24	Menkent	148 5.5	S 36 26.6			
	9	358 54.3	315 50.5	N 16 29.2	S 10	5 31	6 5	17 48	18 23	Miaplacidu	221 39.1	S 69 47.3			
	10	13 56.8	330 50.5	N 16 29.9	S 11	5 32	6 6	17 47	18 21	Mirfak	308 39.0	N 49 54.7			
	11	28 59.2	345 50.6	N 16 30.6	S 12	5 33	6 8	17 46	18 20	Nunki	75 56.6	S 26 16.4			
	12	44 1.7	0 50.6	N 16 31.3	S 13	5 34	6 9	17 44	18 19	Peacock	53 17.2	S 56 40.7			
	13	59 4.2	15 50.7	N 16 32.0	S 14	5 35	6 10	17 43	18 18	Pollux	243 26.2	N 27 59.2			
	14	74 6.6	30 50.7	N 16 32.7	S 15	5 36	6 11	17 42	18 17	Procyon	244 58.4	N 5 11.1			
	15	89 9.1	45 50.8	N 16 33.4	S 20	5 41	6 18	17 35	18 12	Rasalhague	96 5.0	N 12 33.1			
	16	104 11.6	60 50.8	N 16 34.1	S 25	5 47	6 24	17 28	18 6	Regulus	207 42.0	N 11 53.4			
	17	119 14.0	75 50.8	N 16 34.8	S 30	5 52	6 32	17 21	18 0	Rigel	281 11.1	S 8 11.4			
	18	134 16.5	90 50.9	N 16 35.5	S 35	5 58	6 40	17 13	17 54	Rigel Kent	139 47.3	S 60 54.1			
	19	149 18.9	105 50.9	N 16 36.2	S 40	6 5	6 49	17 3	17 48	Schedar	349 39.4	N 56 37.0			
	20	164 21.4	120 51.0	N 16 36.9	S 45	6 11	7 0	16 52	17 41	Shaula	96 19.9	S 37 6.6			
	21	179 23.9	135 51.0	N 16 37.6	S 50	6 19	7 13	16 39	17 33	Sirius	258 32.7	S 16 44.3			
	22	194 26.3	150 51.1	N 16 38.3	S 55	6 28	7 30	16 22	17 24	Spica	158 29.6	S 11 14.5			
23	209 28.8	165 51.1	N 16 39.0	S 60	6 39	7 52	16 0	17 13	Vega	80 37.9	N 38 47.8				
Día		Sol			Luna										
		Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase					
		m s	m s		h m										
5		3 15	3 18	0.7	11 57		15.7	99							
6		3 20	3 23	0.7	11 57		16.7	96							

Tabla G. Jueves 7 de mayo – viernes 8 de mayo de 2015.


Día	TU	Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		Aries	Sol							Nombre	SHA	Dec.
		GHA	GHA	Dec.		h m	h m	h m	h m		° / ' / "	° / ' / "
7	h	° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m		° / ' / "	° / ' / "
	0	224 31.3	180 51.2	N 16 39.7	N 60	2 1	3 41	20 14	21 55	Achernar	335 26.5	S 57 9.5
	1	239 33.7	195 51.2	N 16 40.4	N 55	2 52	4 6	19 48	21 3	Acrux	173 7.2	S 63 11.3
	2	254 36.2	210 51.3	N 16 41.1	N 50	3 24	4 25	19 29	20 31	Adhara	255 11.7	S 29 00.0
	3	269 38.7	225 51.3	N 16 41.8	N 45	3 47	4 40	19 13	20 7	Aldebaran	290 48.3	N 16 32.2
	4	284 41.1	240 51.3	N 16 42.5	N 40	4 4	4 52	19 1	19 49	Alioth	166 19.3	N 55 52.7
	5	299 43.6	255 51.4	N 16 43.2	N 35	4 19	5 3	18 51	19 35	Alkaid	152 57.5	N 49 14.3
	6	314 46.1	270 51.4	N 16 43.9	N 30	4 31	5 12	18 41	19 23	Alnair	27 42.4	S 46 52.9
	7	329 48.5	285 51.5	N 16 44.6	N 25	4 41	5 20	18 33	19 12	Alnilam	275 45.4	S 1 11.8
	8	344 51.0	300 51.5	N 16 45.3	N 20	4 50	5 27	18 26	19 3	Alphard	217 54.8	S 8 43.8
	9	359 53.4	315 51.6	N 16 46.0	N 15	4 58	5 34	18 19	18 55	Alpheratz	357 42.4	N 29 10.4
	10	14 55.9	330 51.6	N 16 46.7	N 14	5 0	5 35	18 18	18 53	Altair	62 7.0	N 8 54.5
	11	29 58.4	345 51.6	N 16 47.4	N 13	5 1	5 37	18 16	18 52	Antares	112 24.3	S 26 27.8
	12	45 0.8	0 51.7	N 16 48.1	N 12	5 3	5 38	18 15	18 50	Arcturus	145 54.0	N 19 6.7
	13	60 3.3	15 51.7	N 16 48.7	N 11	5 4	5 39	18 14	18 49	Atria	107 24.5	S 69 3.0
	14	75 5.8	30 51.8	N 16 49.4	N 10	5 6	5 41	18 12	18 47	Avior	234 17.6	S 59 34.0
	15	90 8.2	45 51.8	N 16 50.1	N 9	5 7	5 42	18 11	18 46	Bellatrix	278 30.9	N 6 21.5
	16	105 10.7	60 51.9	N 16 50.8	N 8	5 8	5 43	18 10	18 45	Betelgeuse	271 0.2	N 7 24.3
	17	120 13.2	75 51.9	N 16 51.5	N 7	5 10	5 44	18 9	18 43	Canopus	263 56.0	S 52 42.7
	18	135 15.6	90 51.9	N 16 52.2	N 6	5 11	5 46	18 7	18 42	Capella	280 33.0	N 46 0.7
	19	150 18.1	105 52.0	N 16 52.9	N 5	5 12	5 47	18 6	18 41	Deneb	49 30.5	N 45 20.0
	20	165 20.5	120 52.0	N 16 53.6	N 4	5 14	5 48	18 5	18 39	Denebola	182 32.1	N 14 29.2
	21	180 23.0	135 52.1	N 16 54.2	N 3	5 15	5 49	18 4	18 38	Dubhe	193 49.9	N 61 40.3
22	195 25.5	150 52.1	N 16 54.9	N 2	5 16	5 51	18 2	18 37	Elnath	278 11.3	N 28 37.0	
23	210 27.9	165 52.1	N 16 55.6	N 1	5 18	5 52	18 1	18 35	Eltanin	90 45.1	N 51 29.2	
8	0	225 30.4	180 52.2	N 16 56.3	S 1	5 20	5 54	17 59	18 33	Enif	33 45.9	N 9 56.7
	1	240 32.9	195 52.2	N 16 57.0	S 2	5 21	5 56	17 57	18 32	Formalhaut	15 22.9	S 29 32.3
	2	255 35.3	210 52.3	N 16 57.7	S 3	5 22	5 57	17 56	18 30	Gacrux	171 58.9	S 57 12.1
	3	270 37.8	225 52.3	N 16 58.4	S 4	5 24	5 58	17 55	18 29	Hadar	148 45.3	S 60 26.8
	4	285 40.3	240 52.3	N 16 59.0	S 5	5 25	5 59	17 54	18 28	Hamal	327 59.7	N 23 31.9
	5	300 42.7	255 52.4	N 16 59.7	S 6	5 26	6 0	17 52	18 27	Kaus Aust	83 41.8	S 34 22.3
	6	315 45.2	270 52.4	N 17 0.4	S 7	5 27	6 2	17 51	18 26	Kochab	137 19.0	N 74 5.7
	7	330 47.7	285 52.4	N 17 1.1	S 8	5 28	6 3	17 50	18 24	Markab	13 37.2	N 15 17.2
	8	345 50.1	300 52.5	N 17 1.8	S 9	5 30	6 4	17 48	18 23	Menkent	148 5.5	S 36 26.6
	9	0 52.6	315 52.5	N 17 2.4	S 10	5 31	6 5	17 47	18 22	Miaplacidu	221 39.2	S 69 47.3
	10	15 55.0	330 52.6	N 17 3.1	S 11	5 32	6 7	17 46	18 21	Mirfak	308 39.0	N 49 54.7
	11	30 57.5	345 52.6	N 17 3.8	S 12	5 33	6 8	17 45	18 20	Nunki	75 56.5	S 26 16.4
	12	46 00.0	0 52.6	N 17 4.5	S 13	5 34	6 9	17 44	18 19	Peacock	53 17.2	S 56 40.7
	13	61 2.4	15 52.7	N 17 5.2	S 14	5 35	6 10	17 42	18 18	Pollux	243 26.2	N 27 59.2
	14	76 4.9	30 52.7	N 17 5.8	S 15	5 36	6 12	17 41	18 16	Procyon	244 58.4	N 5 11.1
	15	91 7.4	45 52.7	N 17 6.5	S 20	5 42	6 18	17 34	18 11	Rasalhague	96 5.0	N 12 33.1
	16	106 9.8	60 52.8	N 17 7.2	S 25	5 48	6 25	17 27	18 5	Regulus	207 42.1	N 11 53.4
	17	121 12.3	75 52.8	N 17 7.9	S 30	5 54	6 33	17 19	17 59	Rigel	281 11.1	S 8 11.4
	18	136 14.8	90 52.8	N 17 8.5	S 35	6 0	6 42	17 11	17 53	Rigel Kent	139 47.3	S 60 54.1
	19	151 17.2	105 52.9	N 17 9.2	S 40	6 6	6 51	17 1	17 46	Schedar	349 39.4	N 56 37.0
	20	166 19.7	120 52.9	N 17 9.9	S 45	6 14	7 3	16 50	17 39	Shaula	96 19.8	S 37 6.6
	21	181 22.2	135 52.9	N 17 10.6	S 50	6 22	7 16	16 36	17 31	Sirius	258 32.7	S 16 44.3
	22	196 24.6	150 53.0	N 17 11.2	S 55	6 31	7 34	16 19	17 21	Spica	158 29.6	S 11 14.5
23	211 27.1	165 53.0	N 17 11.9	S 60	6 43	7 57	15 55	17 9	Vega	80 37.9	N 38 47.8	
		Sol			Luna							
Día	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día	Porcentaje de iluminación		Fase				
	m s	m s		h m								
7	3 25	3 27	0.7	11 57	17.7	91						
8	3 29	3 31	0.7	11 56	18.8	84						

Tabla G. Sábado 9 de mayo – domingo 10 de mayo de 2015.

Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
	h	° / ' / "	° / ' / "	° / ' / "	°	h	m	h	m	h	m	h	m	° / ' / "	° / ' / "
9	0	226 29.5	180 53.0	N 17 12.6	N 60	1 53	3 36	20 19	22 4	Achernar	335 26.5	S 57 9.5			
	1	241 32.0	195 53.1	N 17 13.3	N 55	2 47	4 2	19 51	21 8	Acrux	173 7.2	S 63 11.3			
	2	256 34.5	210 53.1	N 17 13.9	N 50	3 20	4 22	19 31	20 34	Adhara	255 11.7	S 29 00.0			
	3	271 36.9	225 53.1	N 17 14.6	N 45	3 44	4 38	19 16	20 10	Aldebaran	290 48.3	N 16 32.2			
	4	286 39.4	240 53.2	N 17 15.3	N 40	4 2	4 50	19 3	19 52	Alioth	166 19.3	N 55 52.8			
	5	301 41.9	255 53.2	N 17 15.9	N 35	4 17	5 1	18 52	19 37	Alkaid	152 57.5	N 49 14.3			
	6	316 44.3	270 53.2	N 17 16.6	N 30	4 29	5 10	18 43	19 24	Alnair	27 42.4	S 46 52.9			
	7	331 46.8	285 53.3	N 17 17.3	N 25	4 40	5 19	18 34	19 13	Alnilam	275 45.4	S 1 11.8			
	8	346 49.3	300 53.3	N 17 18.0	N 20	4 49	5 26	18 27	19 4	Alphard	217 54.8	S 8 43.8			
	9	1 51.7	315 53.3	N 17 18.6	N 15	4 57	5 33	18 19	18 56	Alpheratz	357 42.4	N 29 10.4			
	10	16 54.2	330 53.4	N 17 19.3	N 14	4 59	5 35	18 18	18 54	Altair	62 7.0	N 8 54.5			
	11	31 56.7	345 53.4	N 17 20.0	N 13	5 1	5 36	18 17	18 52	Antares	112 24.3	S 26 27.8			
	12	46 59.1	0 53.4	N 17 20.6	N 12	5 2	5 37	18 15	18 51	Arcturus	145 54.0	N 19 6.7			
	13	62 1.6	15 53.4	N 17 21.3	N 11	5 4	5 39	18 14	18 49	Atria	107 24.4	S 69 3.0			
	14	77 4.0	30 53.5	N 17 22.0	N 10	5 5	5 40	18 13	18 48	Avior	234 17.6	S 59 34.0			
	15	92 6.5	45 53.5	N 17 22.6	N 9	5 6	5 41	18 11	18 46	Bellatrix	278 30.9	N 6 21.5			
	16	107 9.0	60 53.5	N 17 23.3	N 8	5 8	5 43	18 10	18 45	Betelgeuse	271 0.2	N 7 24.3			
	17	122 11.4	75 53.6	N 17 24.0	N 7	5 9	5 44	18 9	18 44	Canopus	263 56.0	S 52 42.7			
	18	137 13.9	90 53.6	N 17 24.6	N 6	5 11	5 45	18 7	18 42	Capella	280 33.0	N 46 0.7			
	19	152 16.4	105 53.6	N 17 25.3	N 5	5 12	5 47	18 6	18 41	Deneb	49 30.5	N 45 20.0			
	20	167 18.8	120 53.6	N 17 25.9	N 4	5 13	5 48	18 5	18 39	Denebola	182 32.1	N 14 29.2			
	21	182 21.3	135 53.7	N 17 26.6	N 3	5 15	5 49	18 4	18 38	Dubhe	193 49.9	N 61 40.3			
	22	197 23.8	150 53.7	N 17 27.3	N 2	5 16	5 50	18 2	18 37	Elnath	278 11.3	N 28 37.0			
23	212 26.2	165 53.7	N 17 27.9	N 1	5 17	5 52	18 1	18 35	Eltanin	90 45.1	N 51 29.2				
	0			S 1	5 19	5 53	18 0	18 34							
	1	227 28.7	180 53.8	N 17 28.6	S 1	5 20	5 54	17 58	18 33	Enif	33 45.9	N 9 56.7			
	2	242 31.1	195 53.8	N 17 29.3	S 2	5 21	5 55	17 57	18 32	Formalhaut	15 22.9	S 29 32.3			
	3	257 33.6	210 53.8	N 17 29.9	S 3	5 22	5 57	17 56	18 30	Gacrux	171 58.9	S 57 12.1			
	4	272 36.1	225 53.8	N 17 30.6	S 4	5 24	5 58	17 55	18 29	Hadar	148 45.3	S 60 26.8			
	5	287 38.5	240 53.9	N 17 31.2	S 5	5 25	5 59	17 53	18 28	Hamal	327 59.7	N 23 31.9			
	6	302 41.0	255 53.9	N 17 31.9	S 6	5 26	6 1	17 52	18 27	Kaus Aust	83 41.8	S 34 22.3			
	7	317 43.5	270 53.9	N 17 32.5	S 7	5 27	6 2	17 51	18 25	Kochab	137 19.0	N 74 5.7			
	8	332 45.9	285 53.9	N 17 33.2	S 8	5 28	6 3	17 50	18 24	Markab	13 37.2	N 15 17.2			
	9	347 48.4	300 54.0	N 17 33.9	S 9	5 30	6 5	17 48	18 23	Menkent	148 5.5	S 36 26.6			
	10	2 50.9	315 54.0	N 17 34.5	S 10	5 31	6 6	17 47	18 22	Miaplacidu	221 39.2	S 69 47.3			
	11	17 53.3	330 54.0	N 17 35.2	S 11	5 32	6 7	17 46	18 21	Mirfak	308 39.0	N 49 54.7			
	12	32 55.8	345 54.0	N 17 35.8	S 12	5 33	6 8	17 44	18 19	Nunki	75 56.5	S 26 16.4			
	13	47 58.3	0 54.1	N 17 36.5	S 13	5 34	6 10	17 43	18 18	Peacock	53 17.2	S 56 40.7			
	14	63 0.7	15 54.1	N 17 37.1	S 14	5 36	6 11	17 42	18 17	Pollux	243 26.2	N 27 59.2			
	15	78 3.2	30 54.1	N 17 37.8	S 15	5 37	6 12	17 40	18 16	Procyon	244 58.4	N 5 11.1			
	16	93 5.6	45 54.1	N 17 38.4	S 20	5 43	6 19	17 33	18 10	Rasalhague	96 5.0	N 12 33.1			
	17	108 8.1	60 54.1	N 17 39.1	S 25	5 49	6 26	17 26	18 4	Regulus	207 42.1	N 11 53.4			
	18	123 10.6	75 54.2	N 17 39.7	S 30	5 55	6 34	17 18	17 58	Rigel	281 11.1	S 8 11.4			
	19	138 13.0	90 54.2	N 17 40.4	S 35	6 1	6 43	17 9	17 51	Rigel Kent	139 47.3	S 60 54.1			
	20	153 15.5	105 54.2	N 17 41.1	S 40	6 8	6 53	16 59	17 44	Schedar	349 39.4	N 56 37.0			
	21	168 18.0	120 54.2	N 17 41.7	S 45	6 16	7 5	16 47	17 37	Shaula	96 19.8	S 37 6.6			
	22	183 20.4	135 54.3	N 17 42.4	S 50	6 24	7 19	16 33	17 28	Sirius	258 32.7	S 16 44.3			
	23	198 22.9	150 54.3	N 17 43.0	S 55	6 34	7 37	16 15	17 18	Spica	158 29.6	S 11 14.5			
	24	213 25.4	165 54.3	N 17 43.7	S 60	6 47	8 1	15 51	17 5	Vega	80 37.9	N 38 47.8			
		Sol						Luna							
Día		Ecuación del tiempo (00 ^h)		Corr. <i>d</i>	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase					
		m s	m s		h m										
9		3 32	3 34	0.7	11 56		19.8	76							
10		3 35	3 36	0.7	11 56		20.9	66							

Tabla G. Lunes 11 de mayo – martes 12 de mayo de 2015.


Día	TU	Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		Aries	Sol							Nombre	SHA	Dec.
		GHA	GHA	Dec.		h m	h m	h m	h m		° / ' / "	° / ' / "
11	h	° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m		° / ' / "	° / ' / "
	0	228 27.8	180 54.3	N 17 44.3	N 60	1 44	3 31	20 24	22 13	Achernar	335 26.5	S 57 9.5
	1	243 30.3	195 54.3	N 17 44.9	N 55	2 41	3 59	19 55	21 13	Acrux	173 7.2	S 63 11.3
	2	258 32.8	210 54.4	N 17 45.6	N 50	3 16	4 19	19 34	20 38	Adhara	255 11.8	S 29 00.0
	3	273 35.2	225 54.4	N 17 46.2	N 45	3 41	4 35	19 18	20 13	Aldebaran	290 48.3	N 16 32.2
	4	288 37.7	240 54.4	N 17 46.9	N 40	3 59	4 48	19 5	19 54	Alioth	166 19.3	N 55 52.8
	5	303 40.1	255 54.4	N 17 47.5	N 35	4 15	4 59	18 54	19 38	Alkaid	152 57.5	N 49 14.3
	6	318 42.6	270 54.4	N 17 48.2	N 30	4 27	5 9	18 44	19 26	Alnair	27 42.3	S 46 52.9
	7	333 45.1	285 54.5	N 17 48.8	N 25	4 38	5 18	18 35	19 15	Alnilam	275 45.4	S 1 11.8
	8	348 47.5	300 54.5	N 17 49.5	N 20	4 48	5 25	18 27	19 5	Alphard	217 54.8	S 8 43.8
	9	3 50.0	315 54.5	N 17 50.1	N 15	4 57	5 33	18 20	18 56	Alpheratz	357 42.4	N 29 10.4
	10	18 52.5	330 54.5	N 17 50.8	N 14	4 58	5 34	18 19	18 55	Altair	62 7.0	N 8 54.5
	11	33 54.9	345 54.5	N 17 51.4	N 13	5 0	5 36	18 17	18 53	Antares	112 24.3	S 26 27.8
	12	48 57.4	0 54.5	N 17 52.0	N 12	5 1	5 37	18 16	18 51	Arcturus	145 54.0	N 19 6.7
	13	63 59.9	15 54.6	N 17 52.7	N 11	5 3	5 38	18 14	18 50	Atria	107 24.4	S 69 3.0
	14	79 2.3	30 54.6	N 17 53.3	N 10	5 4	5 40	18 13	18 48	Avior	234 17.6	S 59 34.0
	15	94 4.8	45 54.6	N 17 54.0	N 9	5 6	5 41	18 12	18 47	Bellatrix	278 30.9	N 6 21.5
	16	109 7.2	60 54.6	N 17 54.6	N 8	5 7	5 42	18 10	18 45	Betelgeuse	271 0.2	N 7 24.3
	17	124 9.7	75 54.6	N 17 55.2	N 7	5 9	5 44	18 9	18 44	Canopus	263 56.0	S 52 42.7
	18	139 12.2	90 54.6	N 17 55.9	N 6	5 10	5 45	18 8	18 42	Capella	280 33.0	N 46 0.7
	19	154 14.6	105 54.7	N 17 56.5	N 5	5 12	5 46	18 6	18 41	Deneb	49 30.4	N 45 20.0
	20	169 17.1	120 54.7	N 17 57.2	N 4	5 13	5 48	18 5	18 40	Denebola	182 32.1	N 14 29.2
	21	184 19.6	135 54.7	N 17 57.8	N 3	5 14	5 49	18 4	18 38	Dubhe	193 50.0	N 61 40.3
22	199 22.0	150 54.7	N 17 58.4	N 2	5 16	5 50	18 2	18 37	Elnath	278 11.3	N 28 37.0	
23	214 24.5	165 54.7	N 17 59.1	N 1	5 17	5 52	18 1	18 36	Eltanin	90 45.1	N 51 29.2	
12	0	229 27.0	180 54.7	N 17 59.7	S 1	5 20	5 54	17 58	18 33	Enif	33 45.9	N 9 56.7
	1	244 29.4	195 54.8	N 18 0.3	S 2	5 21	5 55	17 57	18 32	Formalhaut	15 22.9	S 29 32.3
	2	259 31.9	210 54.8	N 18 1.0	S 3	5 22	5 57	17 56	18 30	Gacrux	171 58.9	S 57 12.1
	3	274 34.4	225 54.8	N 18 1.6	S 4	5 24	5 58	17 54	18 29	Hadar	148 45.3	S 60 26.9
	4	289 36.8	240 54.8	N 18 2.3	S 5	5 25	5 59	17 53	18 28	Hamal	327 59.7	N 23 31.9
	5	304 39.3	255 54.8	N 18 2.9	S 6	5 26	6 1	17 52	18 26	Kaus Aust	83 41.8	S 34 22.3
	6	319 41.7	270 54.8	N 18 3.5	S 7	5 27	6 2	17 50	18 25	Kochab	137 19.1	N 74 5.7
	7	334 44.2	285 54.8	N 18 4.2	S 8	5 29	6 3	17 49	18 24	Markab	13 37.2	N 15 17.2
	8	349 46.7	300 54.8	N 18 4.8	S 9	5 30	6 5	17 48	18 22	Menkent	148 5.5	S 36 26.6
	9	4 49.1	315 54.9	N 18 5.4	S 10	5 31	6 6	17 46	18 21	Miaplacidu	221 39.2	S 69 47.3
	10	19 51.6	330 54.9	N 18 6.0	S 11	5 32	6 7	17 45	18 20	Mirfak	308 39.0	N 49 54.7
	11	34 54.1	345 54.9	N 18 6.7	S 12	5 34	6 9	17 44	18 19	Nunki	75 56.5	S 26 16.4
	12	49 56.5	0 54.9	N 18 7.3	S 13	5 35	6 10	17 42	18 18	Peacock	53 17.1	S 56 40.7
	13	64 59.0	15 54.9	N 18 7.9	S 14	5 36	6 11	17 41	18 16	Pollux	243 26.2	N 27 59.2
	14	80 1.5	30 54.9	N 18 8.6	S 15	5 37	6 13	17 40	18 15	Procyon	244 58.4	N 5 11.1
	15	95 3.9	45 54.9	N 18 9.2	S 20	5 43	6 20	17 32	18 9	Rasalhague	96 5.0	N 12 33.1
	16	110 6.4	60 54.9	N 18 9.8	S 25	5 50	6 27	17 25	18 3	Regulus	207 42.1	N 11 53.4
	17	125 8.9	75 54.9	N 18 10.4	S 30	5 56	6 36	17 17	17 56	Rigel	281 11.1	S 8 11.3
	18	140 11.3	90 55.0	N 18 11.1	S 35	6 3	6 45	17 7	17 50	Rigel Kent	139 47.3	S 60 54.1
	19	155 13.8	105 55.0	N 18 11.7	S 40	6 10	6 55	16 57	17 42	Schedar	349 39.4	N 56 37.0
	20	170 16.2	120 55.0	N 18 12.3	S 45	6 18	7 7	16 45	17 34	Shaula	96 19.8	S 37 6.6
	21	185 18.7	135 55.0	N 18 13.0	S 50	6 27	7 22	16 30	17 25	Sirius	258 32.7	S 16 44.3
	22	200 21.2	150 55.0	N 18 13.6	S 55	6 38	7 41	16 11	17 14	Spica	158 29.6	S 11 14.5
23	215 23.6	165 55.0	N 18 14.2	S 60	6 51	8 6	15 46	17 1	Vega	80 37.8	N 38 47.8	
Día	Sol				Luna							
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día	Porcentaje de iluminación		Fase				
11	m s	m s		h m								
12	3 37	3 38	0.7	11 56	22.0	55						
	3 39	3 40	0.6	11 56	23.0	43						

Tabla G. Miércoles 13 de mayo – jueves 14 de mayo de 2015.


Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
		° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m	h m	h m	° / ' / "	° / ' / "		
13	0	230 26.1	180 55.0	N 18 14.8	N 60	1 34	3 26	20 28	22 22	Achernar	335 26.5	S 57 9.5			
	1	245 28.6	195 55.0	N 18 15.4	N 55	2 36	3 55	19 59	21 18	Acrux	173 7.2	S 63 11.3			
	2	260 31.0	210 55.0	N 18 16.1	N 50	3 12	4 16	19 37	20 42	Adhara	255 11.8	S 29 00.0			
	3	275 33.5	225 55.0	N 18 16.7	N 45	3 38	4 33	19 21	20 16	Aldebaran	290 48.3	N 16 32.2			
	4	290 36.0	240 55.0	N 18 17.3	N 40	3 57	4 46	19 7	19 56	Alioth	166 19.3	N 55 52.8			
	5	305 38.4	255 55.0	N 18 17.9	N 35	4 13	4 58	18 55	19 40	Alkaid	152 57.5	N 49 14.4			
	6	320 40.9	270 55.1	N 18 18.6	N 30	4 26	5 8	18 45	19 27	Alnair	27 42.3	S 46 52.9			
	7	335 43.3	285 55.1	N 18 19.2	N 25	4 37	5 16	18 36	19 16	Alnilam	275 45.4	S 1 11.8			
	8	350 45.8	300 55.1	N 18 19.8	N 20	4 47	5 25	18 28	19 6	Alphard	217 54.8	S 8 43.8			
	9	5 48.3	315 55.1	N 18 20.4	N 15	4 56	5 32	18 21	18 57	Alpheratz	357 42.4	N 29 10.4			
	10	20 50.7	330 55.1	N 18 21.0	N 14	4 57	5 34	18 19	18 55	Altair	62 7.0	N 8 54.5			
	11	35 53.2	345 55.1	N 18 21.6	N 13	4 59	5 35	18 18	18 54	Antares	112 24.3	S 26 27.8			
	12	50 55.7	0 55.1	N 18 22.3	N 12	5 1	5 36	18 16	18 52	Arcturus	145 54.0	N 19 6.7			
	13	65 58.1	15 55.1	N 18 22.9	N 11	5 2	5 38	18 15	18 50	Atria	107 24.4	S 69 3.0			
	14	81 0.6	30 55.1	N 18 23.5	N 10	5 4	5 39	18 13	18 49	Avior	234 17.6	S 59 34.0			
	15	96 3.1	45 55.1	N 18 24.1	N 9	5 5	5 41	18 12	18 47	Bellatrix	278 30.9	N 6 21.5			
	16	111 5.5	60 55.1	N 18 24.7	N 8	5 7	5 42	18 11	18 46	Betelgeuse	271 0.2	N 7 24.3			
	17	126 8.0	75 55.1	N 18 25.3	N 7	5 8	5 43	18 9	18 44	Canopus	263 56.0	S 52 42.7			
	18	141 10.5	90 55.1	N 18 26.0	N 6	5 10	5 45	18 8	18 43	Capella	280 33.0	N 46 0.7			
	19	156 12.9	105 55.1	N 18 26.6	N 5	5 11	5 46	18 7	18 41	Deneb	49 30.4	N 45 20.0			
	20	171 15.4	120 55.1	N 18 27.2	N 4	5 13	5 47	18 5	18 40	Denebola	182 32.1	N 14 29.2			
	21	186 17.8	135 55.1	N 18 27.8	N 3	5 14	5 49	18 4	18 38	Dubhe	193 50.0	N 61 40.3			
	22	201 20.3	150 55.1	N 18 28.4	N 2	5 16	5 50	18 2	18 37	Elnath	278 11.3	N 28 37.0			
23	216 22.8	165 55.1	N 18 29.0	N 1	5 17	5 51	18 1	18 36	Eltanin	90 45.1	N 51 29.2				
					0	5 18	5 53	18 0	18 34						
14	0	231 25.2	180 55.1	N 18 29.6	S 1	5 20	5 54	17 58	18 33	Enif	33 45.9	N 9 56.7			
	1	246 27.7	195 55.1	N 18 30.2	S 2	5 21	5 56	17 57	18 32	Formalhaut	15 22.8	S 29 32.3			
	2	261 30.2	210 55.1	N 18 30.9	S 3	5 22	5 57	17 56	18 30	Gacrux	171 58.9	S 57 12.1			
	3	276 32.6	225 55.1	N 18 31.5	S 4	5 24	5 58	17 54	18 29	Hadar	148 45.3	S 60 26.9			
	4	291 35.1	240 55.1	N 18 32.1	S 5	5 25	6 0	17 53	18 28	Hamal	327 59.7	N 23 31.9			
	5	306 37.6	255 55.1	N 18 32.7	S 6	5 26	6 1	17 52	18 26	Kaus Aust	83 41.8	S 34 22.3			
	6	321 40.0	270 55.1	N 18 33.3	S 7	5 28	6 2	17 50	18 25	Kochab	137 19.1	N 74 5.7			
	7	336 42.5	285 55.1	N 18 33.9	S 8	5 29	6 4	17 49	18 24	Markab	13 37.2	N 15 17.2			
	8	351 45.0	300 55.1	N 18 34.5	S 9	5 30	6 5	17 47	18 22	Menkent	148 5.5	S 36 26.6			
	9	6 47.4	315 55.1	N 18 35.1	S 10	5 31	6 6	17 46	18 21	Miaplacidu	221 39.2	S 69 47.3			
	10	21 49.9	330 55.1	N 18 35.7	S 11	5 33	6 8	17 45	18 20	Mirfak	308 39.0	N 49 54.7			
	11	36 52.3	345 55.1	N 18 36.3	S 12	5 34	6 9	17 43	18 19	Nunki	75 56.5	S 26 16.4			
	12	51 54.8	0 55.1	N 18 36.9	S 13	5 35	6 11	17 42	18 17	Peacock	53 17.1	S 56 40.7			
	13	66 57.3	15 55.1	N 18 37.5	S 14	5 36	6 12	17 40	18 16	Pollux	243 26.2	N 27 59.2			
	14	81 59.7	30 55.1	N 18 38.1	S 15	5 38	6 13	17 39	18 15	Procyon	244 58.4	N 5 11.1			
	15	97 2.2	45 55.1	N 18 38.7	S 20	5 44	6 21	17 32	18 8	Rasalhague	96 5.0	N 12 33.1			
	16	112 4.7	60 55.1	N 18 39.3	S 25	5 50	6 28	17 24	18 2	Regulus	207 42.1	N 11 53.4			
	17	127 7.1	75 55.1	N 18 39.9	S 30	5 57	6 37	17 15	17 55	Rigel	281 11.1	S 8 11.3			
	18	142 9.6	90 55.1	N 18 40.5	S 35	6 4	6 46	17 6	17 48	Rigel Kent	139 47.3	S 60 54.1			
	19	157 12.1	105 55.1	N 18 41.1	S 40	6 11	6 57	16 55	17 41	Schedar	349 39.4	N 56 37.0			
	20	172 14.5	120 55.1	N 18 41.7	S 45	6 20	7 10	16 42	17 32	Shaula	96 19.8	S 37 6.6			
	21	187 17.0	135 55.1	N 18 42.3	S 50	6 29	7 25	16 27	17 23	Sirius	258 32.7	S 16 44.3			
	22	202 19.4	150 55.1	N 18 42.9	S 55	6 41	7 44	16 8	17 11	Spica	158 29.6	S 11 14.5			
23	217 21.9	165 55.1	N 18 43.5	S 60	6 55	8 10	15 42	16 57	Vega	80 37.8	N 38 47.8				
		Sol			Luna										
Día	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase						
	m s	m s		h m											
13	3 40	3 40	0.6	11 56		24.1	32								
14	3 41	3 41	0.6	11 56		25.1	22								

Tabla G. Viernes 15 de mayo – sábado 16 de mayo de 2015.


Día	TU	Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.						Nombre	SHA	Dec.
	h	° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m		° / ' / "	° / ' / "
15	0	232 24.4	180 55.1	N 18 44.1	N 60	1 25	3 21	20 33	22 33	Achernar	335 26.5	S 57 9.5
	1	247 26.8	195 55.1	N 18 44.7	N 55	2 31	3 51	20 2	21 23	Acrux	173 7.2	S 63 11.3
	2	262 29.3	210 55.1	N 18 45.3	N 50	3 9	4 13	19 40	20 45	Adhara	255 11.8	S 29 00.0
	3	277 31.8	225 55.1	N 18 45.9	N 45	3 35	4 30	19 23	20 19	Aldebaran	290 48.3	N 16 32.2
	4	292 34.2	240 55.1	N 18 46.5	N 40	3 55	4 44	19 9	19 58	Alioth	166 19.3	N 55 52.8
	5	307 36.7	255 55.1	N 18 47.1	N 35	4 11	4 56	18 57	19 42	Alkaid	152 57.5	N 49 14.4
	6	322 39.2	270 55.1	N 18 47.7	N 30	4 24	5 6	18 47	19 29	Alnair	27 42.3	S 46 52.9
	7	337 41.6	285 55.1	N 18 48.3	N 25	4 36	5 15	18 37	19 17	Alnilam	275 45.4	S 1 11.8
	8	352 44.1	300 55.1	N 18 48.9	N 20	4 46	5 24	18 29	19 7	Alphard	217 54.9	S 8 43.8
	9	7 46.6	315 55.1	N 18 49.5	N 15	4 55	5 32	18 21	18 58	Alpheratz	357 42.4	N 29 10.4
	10	22 49.0	330 55.1	N 18 50.1	N 14	4 57	5 33	18 20	18 56	Altair	62 7.0	N 8 54.5
	11	37 51.5	345 55.0	N 18 50.7	N 13	4 59	5 34	18 18	18 54	Antares	112 24.3	S 26 27.8
	12	52 53.9	0 55.0	N 18 51.3	N 12	5 0	5 36	18 17	18 53	Arcturus	145 54.0	N 19 6.7
	13	67 56.4	15 55.0	N 18 51.8	N 11	5 2	5 37	18 15	18 51	Atria	107 24.4	S 69 3.0
	14	82 58.9	30 55.0	N 18 52.4	N 10	5 3	5 39	18 14	18 49	Avior	234 17.6	S 59 34.0
	15	98 1.3	45 55.0	N 18 53.0	N 9	5 5	5 40	18 12	18 48	Bellatrix	278 30.9	N 6 21.5
	16	113 3.8	60 55.0	N 18 53.6	N 8	5 6	5 42	18 11	18 46	Betelgeuse	271 0.2	N 7 24.3
	17	128 6.3	75 55.0	N 18 54.2	N 7	5 8	5 43	18 10	18 45	Canopus	263 56.0	S 52 42.6
	18	143 8.7	90 55.0	N 18 54.8	N 6	5 10	5 45	18 8	18 43	Capella	280 33.0	N 46 0.7
	19	158 11.2	105 55.0	N 18 55.4	N 5	5 11	5 46	18 7	18 42	Deneb	49 30.4	N 45 20.0
	20	173 13.7	120 55.0	N 18 56.0	N 4	5 12	5 47	18 5	18 40	Denebola	182 32.1	N 14 29.2
	21	188 16.1	135 55.0	N 18 56.6	N 3	5 14	5 49	18 4	18 39	Dubhe	193 50.0	N 61 40.3
	22	203 18.6	150 55.0	N 18 57.1	N 2	5 15	5 50	18 3	18 37	Elnath	278 11.3	N 28 37.0
23	218 21.1	165 54.9	N 18 57.7	N 1	5 17	5 51	18 1	18 36	Eltanin	90 45.1	N 51 29.2	
				0	5 18	5 53	18 0	18 34				
16	0	233 23.5	180 54.9	N 18 58.3	S 1	5 20	5 54	17 58	18 33	Enif	33 45.9	N 9 56.7
	1	248 26.0	195 54.9	N 18 58.9	S 2	5 21	5 56	17 57	18 32	Formalhaut	15 22.8	S 29 32.2
	2	263 28.4	210 54.9	N 18 59.5	S 3	5 22	5 57	17 56	18 30	Gacrux	171 58.9	S 57 12.1
	3	278 30.9	225 54.9	N 19 0.1	S 4	5 24	5 58	17 54	18 29	Hadar	148 45.3	S 60 26.9
	4	293 33.4	240 54.9	N 19 0.6	S 5	5 25	6 0	17 53	18 28	Hamal	327 59.7	N 23 31.9
	5	308 35.8	255 54.9	N 19 1.2	S 6	5 26	6 1	17 51	18 26	Kaus Aust	83 41.8	S 34 22.3
	6	323 38.3	270 54.9	N 19 1.8	S 7	5 28	6 3	17 50	18 25	Kochab	137 19.1	N 74 5.7
	7	338 40.8	285 54.9	N 19 2.4	S 8	5 29	6 4	17 49	18 24	Markab	13 37.2	N 15 17.2
	8	353 43.2	300 54.8	N 19 3.0	S 9	5 31	6 6	17 47	18 22	Menkent	148 5.5	S 36 26.6
	9	8 45.7	315 54.8	N 19 3.5	S 10	5 32	6 7	17 46	18 21	Miaplacidu	221 39.3	S 69 47.3
	10	23 48.2	330 54.8	N 19 4.1	S 11	5 33	6 8	17 44	18 20	Mirfak	308 39.0	N 49 54.7
	11	38 50.6	345 54.8	N 19 4.7	S 12	5 34	6 10	17 43	18 18	Nunki	75 56.5	S 26 16.4
	12	53 53.1	0 54.8	N 19 5.3	S 13	5 36	6 11	17 41	18 17	Peacock	53 17.1	S 56 40.7
	13	68 55.6	15 54.8	N 19 5.9	S 14	5 37	6 12	17 40	18 16	Pollux	243 26.2	N 27 59.2
	14	83 58.0	30 54.8	N 19 6.4	S 15	5 38	6 14	17 39	18 14	Procyon	244 58.4	N 5 11.1
	15	99 0.5	45 54.8	N 19 7.0	S 20	5 45	6 21	17 31	18 8	Rasalhague	96 5.0	N 12 33.1
	16	114 2.9	60 54.7	N 19 7.6	S 25	5 51	6 29	17 23	18 1	Regulus	207 42.1	N 11 53.4
	17	129 5.4	75 54.7	N 19 8.2	S 30	5 58	6 38	17 14	17 54	Rigel	281 11.1	S 8 11.3
	18	144 7.9	90 54.7	N 19 8.7	S 35	6 5	6 48	17 4	17 47	Rigel Kent	139 47.3	S 60 54.1
	19	159 10.3	105 54.7	N 19 9.3	S 40	6 13	6 59	16 53	17 39	Schedar	349 39.4	N 56 37.0
	20	174 12.8	120 54.7	N 19 9.9	S 45	6 22	7 12	16 40	17 30	Shaula	96 19.8	S 37 6.6
	21	189 15.3	135 54.7	N 19 10.5	S 50	6 32	7 28	16 24	17 20	Sirius	258 32.7	S 16 44.3
	22	204 17.7	150 54.7	N 19 11.0	S 55	6 43	7 48	16 4	17 9	Spica	158 29.6	S 11 14.5
23	219 20.2	165 54.6	N 19 11.6	S 60	6 58	8 15	15 37	16 54	Vega	80 37.8	N 38 47.8	
Día	Sol				Luna							
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día	Porcentaje de iluminación		Fase				
	m s	m s		h m								
15	3 41	3 40	0.6	11 56	26.2	13						
16	3 40	3 39	0.6	11 56	27.2	6						

Tabla G. Domingo 17 de mayo – lunes 18 de mayo de 2015.


Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
	h	° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m	h m	h m	° / ' / "	° / ' / "	° / ' / "	
17	0	234 22.7	180 54.6	N 19 12.2	N 60	1 14	3 17	20 38	22 44	Achernar	335 26.5	S 57 9.5			
	1	249 25.1	195 54.6	N 19 12.7	N 55	2 26	3 48	20 6	21 28	Acruz	173 7.2	S 63 11.3			
	2	264 27.6	210 54.6	N 19 13.3	N 50	3 5	4 11	19 43	20 49	Adhara	255 11.8	S 29 00.0			
	3	279 30.0	225 54.6	N 19 13.9	N 45	3 32	4 28	19 25	20 21	Aldebaran	290 48.3	N 16 32.2			
	4	294 32.5	240 54.6	N 19 14.4	N 40	3 53	4 43	19 11	20 1	Alioth	166 19.3	N 55 52.8			
	5	309 35.0	255 54.5	N 19 15.0	N 35	4 9	4 55	18 58	19 44	Alkaid	152 57.5	N 49 14.4			
	6	324 37.4	270 54.5	N 19 15.6	N 30	4 23	5 5	18 48	19 30	Alnair	27 42.3	S 46 52.8			
	7	339 39.9	285 54.5	N 19 16.1	N 25	4 35	5 15	18 38	19 18	Alnilam	275 45.4	S 1 11.8			
	8	354 42.4	300 54.5	N 19 16.7	N 20	4 45	5 23	18 30	19 8	Alphard	217 54.9	S 8 43.8			
	9	9 44.8	315 54.5	N 19 17.3	N 15	4 55	5 31	18 22	18 58	Alpheratz	357 42.4	N 29 10.4			
	10	24 47.3	330 54.5	N 19 17.8	N 14	4 56	5 33	18 20	18 57	Altair	62 6.9	N 8 54.5			
	11	39 49.8	345 54.4	N 19 18.4	N 13	4 58	5 34	18 19	18 55	Antares	112 24.3	S 26 27.8			
	12	54 52.2	0 54.4	N 19 19.0	N 12	5 0	5 36	18 17	18 53	Arcturus	145 54.0	N 19 6.7			
	13	69 54.7	15 54.4	N 19 19.5	N 11	5 1	5 37	18 16	18 52	Atria	107 24.4	S 69 3.0			
	14	84 57.2	30 54.4	N 19 20.1	N 10	5 3	5 39	18 14	18 50	Avior	234 17.7	S 59 34.0			
	15	99 59.6	45 54.4	N 19 20.7	N 9	5 5	5 40	18 13	18 48	Bellatrix	278 30.9	N 6 21.5			
	16	115 2.1	60 54.3	N 19 21.2	N 8	5 6	5 41	18 11	18 47	Betelgeuse	271 0.2	N 7 24.3			
	17	130 4.5	75 54.3	N 19 21.8	N 7	5 8	5 43	18 10	18 45	Canopus	263 56.0	S 52 42.6			
	18	145 7.0	90 54.3	N 19 22.3	N 6	5 9	5 44	18 8	18 44	Capella	280 33.0	N 46 0.7			
	19	160 9.5	105 54.3	N 19 22.9	N 5	5 11	5 46	18 7	18 42	Deneb	49 30.4	N 45 20.0			
	20	175 11.9	120 54.3	N 19 23.5	N 4	5 12	5 47	18 6	18 40	Denebola	182 32.1	N 14 29.2			
	21	190 14.4	135 54.2	N 19 24.0	N 3	5 14	5 49	18 4	18 39	Dubhe	193 50.0	N 61 40.3			
	22	205 16.9	150 54.2	N 19 24.6	N 2	5 15	5 50	18 3	18 38	Elnath	278 11.3	N 28 37.0			
23	220 19.3	165 54.2	N 19 25.1	N 1	5 17	5 51	18 1	18 36	Eltanin	90 45.1	N 51 29.2				
18	0	235 21.8	180 54.2	N 19 25.7	S 1	5 20	5 54	17 58	18 33	Enif	33 45.8	N 9 56.7			
	1	250 24.3	195 54.1	N 19 26.3	S 2	5 21	5 56	17 57	18 32	Formalhaut	15 22.8	S 29 32.2			
	2	265 26.7	210 54.1	N 19 26.8	S 3	5 22	5 57	17 56	18 30	Gacrux	171 59.0	S 57 12.1			
	3	280 29.2	225 54.1	N 19 27.4	S 4	5 24	5 59	17 54	18 29	Hadar	148 45.3	S 60 26.9			
	4	295 31.7	240 54.1	N 19 27.9	S 5	5 25	6 0	17 53	18 28	Hamal	327 59.6	N 23 31.9			
	5	310 34.1	255 54.1	N 19 28.5	S 6	5 27	6 1	17 51	18 26	Kaus Aust	83 41.8	S 34 22.3			
	6	325 36.6	270 54.0	N 19 29.0	S 7	5 28	6 3	17 50	18 25	Kochab	137 19.1	N 74 5.7			
	7	340 39.0	285 54.0	N 19 29.6	S 8	5 29	6 4	17 48	18 23	Markab	13 37.1	N 15 17.2			
	8	355 41.5	300 54.0	N 19 30.1	S 9	5 31	6 6	17 47	18 22	Menkent	148 5.5	S 36 26.6			
	9	10 44.0	315 54.0	N 19 30.7	S 10	5 32	6 7	17 45	18 21	Miaplacidu	221 39.3	S 69 47.3			
	10	25 46.4	330 53.9	N 19 31.2	S 11	5 33	6 9	17 44	18 19	Mirfak	308 39.0	N 49 54.7			
	11	40 48.9	345 53.9	N 19 31.8	S 12	5 35	6 10	17 43	18 18	Nunki	75 56.5	S 26 16.4			
	12	55 51.4	0 53.9	N 19 32.3	S 13	5 36	6 12	17 41	18 17	Peacock	53 17.1	S 56 40.7			
	13	70 53.8	15 53.9	N 19 32.9	S 14	5 37	6 13	17 40	18 15	Pollux	243 26.2	N 27 59.2			
	14	85 56.3	30 53.8	N 19 33.4	S 15	5 39	6 15	17 38	18 14	Procyon	244 58.4	N 5 11.1			
	15	100 58.8	45 53.8	N 19 34.0	S 20	5 45	6 22	17 30	18 7	Rasalhague	96 5.0	N 12 33.1			
	16	116 1.2	60 53.8	N 19 34.5	S 25	5 52	6 30	17 22	18 0	Regulus	207 42.1	N 11 53.4			
	17	131 3.7	75 53.8	N 19 35.1	S 30	5 59	6 39	17 13	17 53	Rigel	281 11.1	S 8 11.3			
	18	146 6.1	90 53.7	N 19 35.6	S 35	6 7	6 49	17 3	17 46	Rigel Kent	139 47.3	S 60 54.1			
	19	161 8.6	105 53.7	N 19 36.2	S 40	6 15	7 1	16 52	17 38	Schedar	349 39.3	N 56 37.0			
	20	176 11.1	120 53.7	N 19 36.7	S 45	6 24	7 14	16 38	17 29	Shaula	96 19.8	S 37 6.6			
	21	191 13.5	135 53.7	N 19 37.3	S 50	6 34	7 30	16 22	17 18	Sirius	258 32.7	S 16 44.3			
	22	206 16.0	150 53.6	N 19 37.8	S 55	6 46	7 51	16 1	17 6	Spica	158 29.6	S 11 14.5			
23	221 18.5	165 53.6	N 19 38.4	S 60	7 2	8 23	15 33	16 50	Vega	80 37.8	N 38 47.8				
Día	Sol			Luna											
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase						
17	m s	m s		h m		28.3	1								
18	3 39	3 38	0.6	11 56		29.4	0								

Tabla G. Martes 19 de mayo – miércoles 20 de mayo de 2015.


Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
19	h	° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m	h m	h m	h m	Nombre	° / ' / "	° / ' / "
	0	236 20.9	180 53.6	N 19 38.9	N 60	1 3	3 12	20 42	22 56	Achernar	335 26.5	S 57 9.5			
	1	251 23.4	195 53.5	N 19 39.4	N 55	2 21	3 45	20 9	21 33	Acrux	173 7.2	S 63 11.3			
	2	266 25.9	210 53.5	N 19 40.0	N 50	3 2	4 8	19 46	20 52	Adhara	255 11.8	S 29 00.0			
	3	281 28.3	225 53.5	N 19 40.5	N 45	3 30	4 26	19 27	20 24	Aldebaran	290 48.2	N 16 32.2			
	4	296 30.8	240 53.5	N 19 41.1	N 40	3 51	4 41	19 12	20 3	Alioth	166 19.3	N 55 52.8			
	5	311 33.3	255 53.4	N 19 41.6	N 35	4 8	4 53	19 0	19 46	Alkaid	152 57.5	N 49 14.4			
	6	326 35.7	270 53.4	N 19 42.1	N 30	4 22	5 4	18 49	19 31	Alnair	27 42.3	S 46 52.8			
	7	341 38.2	285 53.4	N 19 42.7	N 25	4 34	5 14	18 39	19 19	Alnilam	275 45.4	S 1 11.8			
	8	356 40.6	300 53.3	N 19 43.2	N 20	4 44	5 22	18 31	19 9	Alphard	217 54.9	S 8 43.8			
	9	11 43.1	315 53.3	N 19 43.8	N 15	4 54	5 31	18 22	18 59	Alpheratz	357 42.3	N 29 10.4			
	10	26 45.6	330 53.3	N 19 44.3	N 14	4 56	5 32	18 21	18 57	Altair	62 6.9	N 8 54.5			
	11	41 48.0	345 53.3	N 19 44.8	N 13	4 57	5 34	18 19	18 56	Antares	112 24.3	S 26 27.8			
	12	56 50.5	0 53.2	N 19 45.4	N 12	4 59	5 35	18 18	18 54	Arcturus	145 54.0	N 19 6.8			
	13	71 53.0	15 53.2	N 19 45.9	N 11	5 1	5 37	18 16	18 52	Atria	107 24.3	S 69 3.0			
	14	86 55.4	30 53.2	N 19 46.4	N 10	5 3	5 38	18 15	18 50	Avior	234 17.7	S 59 34.0			
	15	101 57.9	45 53.1	N 19 47.0	N 9	5 4	5 40	18 13	18 49	Bellatrix	278 30.9	N 6 21.5			
	16	117 0.4	60 53.1	N 19 47.5	N 8	5 6	5 41	18 12	18 47	Betelgeuse	271 0.2	N 7 24.3			
	17	132 2.8	75 53.1	N 19 48.1	N 7	5 7	5 43	18 10	18 46	Canopus	263 56.0	S 52 42.6			
	18	147 5.3	90 53.0	N 19 48.6	N 6	5 9	5 44	18 9	18 44	Capella	280 33.0	N 46 0.7			
	19	162 7.8	105 53.0	N 19 49.1	N 5	5 11	5 46	18 7	18 42	Deneb	49 30.4	N 45 20.0			
	20	177 10.2	120 53.0	N 19 49.6	N 4	5 12	5 47	18 6	18 41	Denebola	182 32.1	N 14 29.2			
	21	192 12.7	135 52.9	N 19 50.2	N 3	5 14	5 49	18 4	18 39	Dubhe	193 50.0	N 61 40.3			
22	207 15.1	150 52.9	N 19 50.7	N 2	5 15	5 50	18 3	18 38	Elnath	278 11.3	N 28 37.0				
23	222 17.6	165 52.9	N 19 51.2	N 1	5 17	5 52	18 1	18 36	Eltanin	90 45.1	N 51 29.3				
20	0	237 20.1	180 52.8	N 19 51.8	S 1	5 20	5 54	17 58	18 33	Enif	33 45.8	N 9 56.7			
	1	252 22.5	195 52.8	N 19 52.3	S 2	5 21	5 56	17 57	18 32	Formalhaut	15 22.8	S 29 32.2			
	2	267 25.0	210 52.8	N 19 52.8	S 3	5 22	5 57	17 56	18 30	Gacrux	171 59.0	S 57 12.1			
	3	282 27.5	225 52.7	N 19 53.4	S 4	5 24	5 59	17 54	18 29	Hadar	148 45.3	S 60 26.9			
	4	297 29.9	240 52.7	N 19 53.9	S 5	5 25	6 0	17 53	18 28	Hamal	327 59.6	N 23 31.9			
	5	312 32.4	255 52.7	N 19 54.4	S 6	5 27	6 2	17 51	18 26	Kaus Aust	83 41.8	S 34 22.3			
	6	327 34.9	270 52.6	N 19 54.9	S 7	5 28	6 3	17 50	18 25	Kochab	137 19.1	N 74 5.7			
	7	342 37.3	285 52.6	N 19 55.5	S 8	5 30	6 5	17 48	18 23	Markab	13 37.1	N 15 17.2			
	8	357 39.8	300 52.6	N 19 56.0	S 9	5 31	6 6	17 47	18 22	Menkent	148 5.5	S 36 26.6			
	9	12 42.2	315 52.5	N 19 56.5	S 10	5 32	6 8	17 45	18 21	Miaplacidu	221 39.3	S 69 47.3			
	10	27 44.7	330 52.5	N 19 57.0	S 11	5 34	6 9	17 44	18 19	Mirfak	308 38.9	N 49 54.7			
	11	42 47.2	345 52.5	N 19 57.6	S 12	5 35	6 11	17 42	18 18	Nunki	75 56.5	S 26 16.4			
	12	57 49.6	0 52.4	N 19 58.1	S 13	5 36	6 12	17 41	18 16	Peacock	53 17.0	S 56 40.7			
	13	72 52.1	15 52.4	N 19 58.6	S 14	5 38	6 14	17 39	18 15	Pollux	243 26.2	N 27 59.2			
	14	87 54.6	30 52.4	N 19 59.1	S 15	5 39	6 15	17 38	18 14	Procyon	244 58.4	N 5 11.1			
	15	102 57.0	45 52.3	N 19 59.6	S 20	5 46	6 23	17 30	18 7	Rasalhague	96 5.0	N 12 33.1			
	16	117 59.5	60 52.3	N 20 0.2	S 25	5 53	6 31	17 21	18 0	Regulus	207 42.1	N 11 53.4			
	17	133 2.0	75 52.2	N 20 0.7	S 30	6 0	6 41	17 12	17 52	Rigel	281 11.1	S 8 11.3			
	18	148 4.4	90 52.2	N 20 1.2	S 35	6 8	6 51	17 2	17 45	Rigel Kent	139 47.3	S 60 54.1			
	19	163 6.9	105 52.2	N 20 1.7	S 40	6 16	7 3	16 50	17 36	Schedar	349 39.3	N 56 37.0			
	20	178 9.4	120 52.1	N 20 2.2	S 45	6 26	7 16	16 36	17 27	Shaula	96 19.8	S 37 6.6			
	21	193 11.8	135 52.1	N 20 2.8	S 50	6 36	7 33	16 20	17 16	Sirius	258 32.7	S 16 44.3			
	22	208 14.3	150 52.1	N 20 3.3	S 55	6 49	7 54	15 58	17 3	Spica	158 29.6	S 11 14.5			
23	223 16.7	165 52.0	N 20 3.8	S 60	7 5	8 27	15 29	16 47	Vega	80 37.8	N 38 47.8				
Día	Sol				Luna										
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día	Porcentaje de iluminación		Fase							
19	m s	m s		h m											
20	3 34	3 33	0.6	11 56	1.0	1									
	3 31	3 30	0.5	11 57	2.1	4									

Tabla G. Jueves 21 de mayo – viernes 22 de mayo de 2015.


Día	TU	Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		Aries	Sol							Nombre	SHA	Dec.
		GHA	GHA	Dec.	Lat.	h m	h m	h m	h m		SHA	Dec.
21	h	° /	° /	° /	°	h m	h m	h m	h m		° /	° /
	0	238 19.2	180 52.0	N 20 4.3	N 60	0 49	3 8	20 47	23 11	Achernar	335 26.5	S 57 9.4
	1	253 21.7	195 51.9	N 20 4.8	N 55	2 17	3 42	20 12	21 38	Acruz	173 7.3	S 63 11.3
	2	268 24.1	210 51.9	N 20 5.3	N 50	2 59	4 6	19 48	20 56	Adhara	255 11.8	S 29 00.0
	3	283 26.6	225 51.9	N 20 5.8	N 45	3 27	4 24	19 29	20 27	Aldebaran	290 48.2	N 16 32.2
	4	298 29.1	240 51.8	N 20 6.4	N 40	3 49	4 39	19 14	20 5	Alioth	166 19.3	N 55 52.8
	5	313 31.5	255 51.8	N 20 6.9	N 35	4 6	4 52	19 1	19 47	Alkaid	152 57.5	N 49 14.4
	6	328 34.0	270 51.7	N 20 7.4	N 30	4 21	5 3	18 50	19 33	Alnair	27 42.2	S 46 52.8
	7	343 36.5	285 51.7	N 20 7.9	N 25	4 33	5 13	18 40	19 20	Alnilam	275 45.4	S 1 11.8
	8	358 38.9	300 51.7	N 20 8.4	N 20	4 44	5 22	18 31	19 10	Alphard	217 54.9	S 8 43.8
	9	13 41.4	315 51.6	N 20 8.9	N 15	4 53	5 30	18 23	19 0	Alpheratz	357 42.3	N 29 10.4
	10	28 43.9	330 51.6	N 20 9.4	N 14	4 55	5 32	18 21	18 58	Altair	62 6.9	N 8 54.5
	11	43 46.3	345 51.5	N 20 9.9	N 13	4 57	5 33	18 20	18 56	Antares	112 24.3	S 26 27.8
	12	58 48.8	0 51.5	N 20 10.4	N 12	4 59	5 35	18 18	18 54	Arcturus	145 54.0	N 19 6.8
	13	73 51.2	15 51.5	N 20 10.9	N 11	5 1	5 36	18 17	18 53	Atria	107 24.3	S 69 3.0
	14	88 53.7	30 51.4	N 20 11.4	N 10	5 2	5 38	18 15	18 51	Avior	234 17.7	S 59 34.0
	15	103 56.2	45 51.4	N 20 12.0	N 9	5 4	5 40	18 14	18 49	Bellatrix	278 30.9	N 6 21.5
	16	118 58.6	60 51.3	N 20 12.5	N 8	5 6	5 41	18 12	18 48	Betelgeuse	271 0.2	N 7 24.3
	17	134 1.1	75 51.3	N 20 13.0	N 7	5 7	5 43	18 11	18 46	Canopus	263 56.0	S 52 42.6
	18	149 3.6	90 51.2	N 20 13.5	N 6	5 9	5 44	18 9	18 44	Capella	280 33.0	N 46 0.7
	19	164 6.0	105 51.2	N 20 14.0	N 5	5 10	5 46	18 8	18 43	Deneb	49 30.3	N 45 20.0
	20	179 8.5	120 51.2	N 20 14.5	N 4	5 12	5 47	18 6	18 41	Denebola	182 32.1	N 14 29.2
	21	194 11.0	135 51.1	N 20 15.0	N 3	5 14	5 49	18 5	18 40	Dubhe	193 50.1	N 61 40.3
22	209 13.4	150 51.1	N 20 15.5	N 2	5 15	5 50	18 3	18 38	Elnath	278 11.3	N 28 37.0	
23	224 15.9	165 51.0	N 20 16.0	N 1	5 17	5 52	18 2	18 37	Eltanin	90 45.0	N 51 29.3	
					0	5 18	5 53	18 0	18 35			
22	0	239 18.4	180 51.0	N 20 16.5	S 1	5 20	5 55	17 59	18 34	Enif	33 45.8	N 9 56.7
	1	254 20.8	195 50.9	N 20 17.0	S 2	5 21	5 56	17 57	18 32	Formalhaut	15 22.8	S 29 32.2
	2	269 23.3	210 50.9	N 20 17.5	S 3	5 23	5 58	17 56	18 31	Gacrux	171 59.0	S 57 12.1
	3	284 25.7	225 50.8	N 20 18.0	S 4	5 24	5 59	17 54	18 29	Hadar	148 45.3	S 60 26.9
	4	299 28.2	240 50.8	N 20 18.5	S 5	5 26	6 0	17 53	18 28	Hamal	327 59.6	N 23 31.9
	5	314 30.7	255 50.8	N 20 19.0	S 6	5 27	6 2	17 51	18 26	Kaus Aust	83 41.7	S 34 22.3
	6	329 33.1	270 50.7	N 20 19.5	S 7	5 28	6 3	17 50	18 25	Kochab	137 19.1	N 74 5.7
	7	344 35.6	285 50.7	N 20 20.0	S 8	5 30	6 5	17 48	18 23	Markab	13 37.1	N 15 17.2
	8	359 38.1	300 50.6	N 20 20.5	S 9	5 31	6 7	17 46	18 22	Menkent	148 5.5	S 36 26.6
	9	14 40.5	315 50.6	N 20 21.0	S 10	5 33	6 8	17 45	18 20	Miaplacidu	221 39.4	S 69 47.3
	10	29 43.0	330 50.5	N 20 21.5	S 11	5 34	6 10	17 44	18 19	Mirfak	308 38.9	N 49 54.7
	11	44 45.5	345 50.5	N 20 22.0	S 12	5 35	6 11	17 42	18 18	Nunki	75 56.4	S 26 16.4
	12	59 47.9	0 50.4	N 20 22.4	S 13	5 37	6 13	17 40	18 16	Peacock	53 17.0	S 56 40.7
	13	74 50.4	15 50.4	N 20 22.9	S 14	5 38	6 14	17 39	18 15	Pollux	243 26.2	N 27 59.2
	14	89 52.8	30 50.3	N 20 23.4	S 15	5 40	6 16	17 37	18 13	Procyon	244 58.4	N 5 11.1
	15	104 55.3	45 50.3	N 20 23.9	S 20	5 47	6 24	17 29	18 6	Rasalhague	96 5.0	N 12 33.1
	16	119 57.8	60 50.2	N 20 24.4	S 25	5 54	6 32	17 20	17 59	Regulus	207 42.1	N 11 53.4
	17	135 0.2	75 50.2	N 20 24.9	S 30	6 1	6 42	17 11	17 51	Rigel	281 11.1	S 8 11.3
	18	150 2.7	90 50.1	N 20 25.4	S 35	6 9	6 52	17 1	17 44	Rigel Kent	139 47.3	S 60 54.1
	19	165 5.2	105 50.1	N 20 25.9	S 40	6 18	7 4	16 49	17 35	Schedar	349 39.3	N 56 37.0
	20	180 7.6	120 50.1	N 20 26.4	S 45	6 27	7 18	16 34	17 25	Shaula	96 19.7	S 37 6.6
	21	195 10.1	135 50.0	N 20 26.9	S 50	6 38	7 35	16 17	17 14	Sirius	258 32.7	S 16 44.3
	22	210 12.6	150 50.0	N 20 27.3	S 55	6 52	7 57	15 55	17 1	Spica	158 29.6	S 11 14.5
23	225 15.0	165 49.9	N 20 27.8	S 60	7 8	8 31	15 25	16 44	Vega	80 37.8	N 38 47.8	
		Sol				Luna						
Día	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día		Porcentaje de iluminación		Fase			
	m s	m s		h m								
21	3 28	3 26	0.5	11 57	3.1		9					
22	3 24	3 22	0.5	11 57	4.2		16					

Tabla G. Sábado 23 de mayo – domingo 24 de mayo de 2015.

Día	TU	Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		Aries	Sol							Nombre	SHA	Dec.
		GHA	GHA	Dec.		h m	h m	h m	h m		° / ' / "	° / ' / "
23	h				°							
	0	240 17.5	180 49.9	N 20 28.3	N 60	0 33	3 4	20 51	23 32	Achernar	335 26.4	S 57 9.4
	1	255 20.0	195 49.8	N 20 28.8	N 55	2 12	3 39	20 16	21 43	Acrux	173 7.3	S 63 11.3
	2	270 22.4	210 49.8	N 20 29.3	N 50	2 56	4 4	19 51	20 59	Adhara	255 11.8	S 28 59.9
	3	285 24.9	225 49.7	N 20 29.8	N 45	3 25	4 23	19 31	20 29	Aldebaran	290 48.2	N 16 32.2
	4	300 27.3	240 49.7	N 20 30.3	N 40	3 47	4 38	19 16	20 7	Alioth	166 19.3	N 55 52.8
	5	315 29.8	255 49.6	N 20 30.7	N 35	4 5	4 51	19 3	19 49	Alkaid	152 57.5	N 49 14.4
	6	330 32.3	270 49.6	N 20 31.2	N 30	4 20	5 2	18 52	19 34	Alnair	27 42.2	S 46 52.8
	7	345 34.7	285 49.5	N 20 31.7	N 25	4 32	5 12	18 41	19 22	Alnilam	275 45.4	S 1 11.8
	8	0 37.2	300 49.5	N 20 32.2	N 20	4 43	5 21	18 32	19 11	Alphard	217 54.9	S 8 43.8
	9	15 39.7	315 49.4	N 20 32.7	N 15	4 53	5 30	18 24	19 1	Alpheratz	357 42.3	N 29 10.4
	10	30 42.1	330 49.3	N 20 33.1	N 14	4 55	5 31	18 22	18 59	Altair	62 6.9	N 8 54.5
	11	45 44.6	345 49.3	N 20 33.6	N 13	4 57	5 33	18 20	18 57	Antares	112 24.3	S 26 27.8
	12	60 47.1	0 49.2	N 20 34.1	N 12	4 58	5 35	18 19	18 55	Arcturus	145 54.0	N 19 6.8
	13	75 49.5	15 49.2	N 20 34.6	N 11	5 0	5 36	18 17	18 53	Atria	107 24.3	S 69 3.0
	14	90 52.0	30 49.1	N 20 35.1	N 10	5 2	5 38	18 16	18 52	Avior	234 17.7	S 59 34.0
	15	105 54.5	45 49.1	N 20 35.5	N 9	5 4	5 39	18 14	18 50	Bellatrix	278 30.9	N 6 21.5
	16	120 56.9	60 49.0	N 20 36.0	N 8	5 5	5 41	18 13	18 48	Betelgeuse	271 0.2	N 7 24.3
	17	135 59.4	75 49.0	N 20 36.5	N 7	5 7	5 43	18 11	18 46	Canopus	263 56.0	S 52 42.6
	18	151 1.8	90 48.9	N 20 37.0	N 6	5 9	5 44	18 9	18 45	Capella	280 33.0	N 46 0.7
	19	166 4.3	105 48.9	N 20 37.4	N 5	5 10	5 46	18 8	18 43	Deneb	49 30.3	N 45 20.0
	20	181 6.8	120 48.8	N 20 37.9	N 4	5 12	5 47	18 6	18 42	Denebola	182 32.1	N 14 29.2
	21	196 9.2	135 48.8	N 20 38.4	N 3	5 14	5 49	18 5	18 40	Dubhe	193 50.1	N 61 40.3
22	211 11.7	150 48.7	N 20 38.9	N 2	5 15	5 50	18 3	18 38	Elnath	278 11.3	N 28 37.0	
23	226 14.2	165 48.7	N 20 39.3	N 1	5 17	5 52	18 2	18 37	Eltanin	90 45.0	N 51 29.3	
				0	5 18	5 53	18 0	18 35				
	0	241 16.6	180 48.6	N 20 39.8	S 1	5 20	5 55	17 59	18 34	Enif	33 45.8	N 9 56.7
	1	256 19.1	195 48.5	N 20 40.3	S 2	5 21	5 56	17 57	18 32	Formalhaut	15 22.8	S 29 32.2
	2	271 21.6	210 48.5	N 20 40.7	S 3	5 23	5 58	17 56	18 31	Gacrux	171 59.0	S 57 12.1
	3	286 24.0	225 48.4	N 20 41.2	S 4	5 24	5 59	17 54	18 29	Hadar	148 45.3	S 60 26.9
	4	301 26.5	240 48.4	N 20 41.7	S 5	5 26	6 1	17 53	18 28	Hamal	327 59.6	N 23 31.9
	5	316 28.9	255 48.3	N 20 42.2	S 6	5 27	6 2	17 51	18 26	Kaus Aust	83 41.7	S 34 22.3
	6	331 31.4	270 48.3	N 20 42.6	S 7	5 29	6 4	17 50	18 25	Kochab	137 19.1	N 74 5.8
	7	346 33.9	285 48.2	N 20 43.1	S 8	5 30	6 5	17 48	18 23	Markab	13 37.1	N 15 17.2
	8	1 36.3	300 48.2	N 20 43.6	S 9	5 32	6 7	17 46	18 22	Menkent	148 5.5	S 36 26.6
	9	16 38.8	315 48.1	N 20 44.0	S 10	5 33	6 8	17 45	18 20	Miaplacidu	221 39.4	S 69 47.3
	10	31 41.3	330 48.0	N 20 44.5	S 11	5 34	6 10	17 43	18 19	Mirfak	308 38.9	N 49 54.7
	11	46 43.7	345 48.0	N 20 45.0	S 12	5 36	6 12	17 42	18 17	Nunki	75 56.4	S 26 16.4
24	12	61 46.2	0 47.9	N 20 45.4	S 13	5 37	6 13	17 40	18 16	Peacock	53 17.0	S 56 40.7
	13	76 48.7	15 47.9	N 20 45.9	S 14	5 39	6 15	17 39	18 15	Pollux	243 26.2	N 27 59.2
	14	91 51.1	30 47.8	N 20 46.3	S 15	5 40	6 16	17 37	18 13	Procyon	244 58.4	N 5 11.1
	15	106 53.6	45 47.8	N 20 46.8	S 20	5 47	6 25	17 29	18 6	Rasalhague	96 4.9	N 12 33.1
	16	121 56.1	60 47.7	N 20 47.3	S 25	5 55	6 33	17 20	17 58	Regulus	207 42.1	N 11 53.4
	17	136 58.5	75 47.6	N 20 47.7	S 30	6 2	6 43	17 10	17 51	Rigel	281 11.1	S 8 11.3
	18	152 1.0	90 47.6	N 20 48.2	S 35	6 11	6 54	16 59	17 43	Rigel Kent	139 47.3	S 60 54.1
	19	167 3.4	105 47.5	N 20 48.6	S 40	6 19	7 6	16 47	17 34	Schedar	349 39.3	N 56 37.0
	20	182 5.9	120 47.5	N 20 49.1	S 45	6 29	7 20	16 33	17 24	Shaula	96 19.7	S 37 6.6
	21	197 8.4	135 47.4	N 20 49.6	S 50	6 41	7 38	16 15	17 12	Sirius	258 32.7	S 16 44.3
	22	212 10.8	150 47.3	N 20 50.0	S 55	6 54	8 4	15 53	16 59	Spica	158 29.6	S 11 14.5
	23	227 13.3	165 47.3	N 20 50.5	S 60	7 12	8 35	15 21	16 41	Vega	80 37.8	N 38 47.8
			Sol			Luna						
Día		Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase		
		m s	m s		h m							
23		3 20	3 17	0.5	11 57		5.2	24				
24		3 15	3 12	0.5	11 57		6.1	33				

Tabla G. Lunes 25 de mayo – martes 26 de mayo de 2015.

Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
25	h	° /	° /	° /	°	h m	h m	h m	h m						
	0	242 15.8	180 47.2	N 20 50.9	N 60	—	3 0	20 55	—	Achernar	335 26.4	S 57 9.4			
	1	257 18.2	195 47.2	N 20 51.4	N 55	2 8	3 36	20 19	21 48	Acruz	173 7.3	S 63 11.3			
	2	272 20.7	210 47.1	N 20 51.8	N 50	2 53	4 1	19 53	21 2	Adhara	255 11.8	S 28 59.9			
	3	287 23.2	225 47.0	N 20 52.3	N 45	3 23	4 21	19 33	20 32	Aldebaran	290 48.2	N 16 32.2			
	4	302 25.6	240 47.0	N 20 52.8	N 40	3 46	4 37	19 18	20 9	Alioth	166 19.4	N 55 52.8			
	5	317 28.1	255 46.9	N 20 53.2	N 35	4 4	4 50	19 4	19 51	Alkaid	152 57.5	N 49 14.4			
	6	332 30.6	270 46.9	N 20 53.7	N 30	4 19	5 1	18 53	19 36	Alnair	27 42.2	S 46 52.8			
	7	347 33.0	285 46.8	N 20 54.1	N 25	4 31	5 12	18 42	19 23	Alnilam	275 45.4	S 1 11.8			
	8	2 35.5	300 46.7	N 20 54.6	N 20	4 43	5 21	18 33	19 11	Alphard	217 54.9	S 8 43.8			
	9	17 37.9	315 46.7	N 20 55.0	N 15	4 53	5 30	18 24	19 1	Alpheratz	357 42.3	N 29 10.4			
	10	32 40.4	330 46.6	N 20 55.5	N 14	4 55	5 31	18 23	18 59	Altair	62 6.9	N 8 54.5			
	11	47 42.9	345 46.6	N 20 55.9	N 13	4 56	5 33	18 21	18 58	Antares	112 24.3	S 26 27.8			
	12	62 45.3	0 46.5	N 20 56.4	N 12	4 58	5 35	18 19	18 56	Arcturus	145 54.0	N 19 6.8			
	13	77 47.8	15 46.4	N 20 56.8	N 11	5 0	5 36	18 18	18 54	Atria	107 24.3	S 69 3.1			
	14	92 50.3	30 46.4	N 20 57.3	N 10	5 2	5 38	18 16	18 52	Avior	234 17.7	S 59 34.0			
	15	107 52.7	45 46.3	N 20 57.7	N 9	5 4	5 39	18 15	18 50	Bellatrix	278 30.9	N 6 21.5			
	16	122 55.2	60 46.2	N 20 58.2	N 8	5 5	5 41	18 13	18 49	Betelgeuse	271 0.2	N 7 24.3			
	17	137 57.7	75 46.2	N 20 58.6	N 7	5 7	5 43	18 11	18 47	Canopus	263 56.1	S 52 42.6			
	18	153 0.1	90 46.1	N 20 59.0	N 6	5 9	5 44	18 10	18 45	Capella	280 33.0	N 46 0.7			
	19	168 2.6	105 46.1	N 20 59.5	N 5	5 10	5 46	18 8	18 44	Deneb	49 30.3	N 45 20.0			
	20	183 5.0	120 46.0	N 20 59.9	N 4	5 12	5 47	18 7	18 42	Denebola	182 32.1	N 14 29.2			
	21	198 7.5	135 45.9	N 21 0.4	N 3	5 14	5 49	18 5	18 40	Dubhe	193 50.1	N 61 40.3			
22	213 10.0	150 45.9	N 21 0.8	N 2	5 15	5 50	18 4	18 39	Elnath	278 11.3	N 28 37.0				
23	228 12.4	165 45.8	N 21 1.3	N 1	5 17	5 52	18 2	18 37	Eltanin	90 45.0	N 51 29.3				
26	0	243 14.9	180 45.7	N 21 1.7	S 1	5 20	5 55	17 59	18 34	Enif	33 45.8	N 9 56.8			
	1	258 17.4	195 45.7	N 21 2.1	S 2	5 21	5 56	17 57	18 32	Formalhaut	15 22.7	S 29 32.8			
	2	273 19.8	210 45.6	N 21 2.6	S 3	5 23	5 58	17 56	18 31	Gacrux	171 59.0	S 57 12.1			
	3	288 22.3	225 45.5	N 21 3.0	S 4	5 24	6 0	17 54	18 29	Hadar	148 45.3	S 60 26.9			
	4	303 24.8	240 45.5	N 21 3.5	S 5	5 26	6 1	17 53	18 28	Hamal	327 59.6	N 23 31.9			
	5	318 27.2	255 45.4	N 21 3.9	S 6	5 27	6 3	17 51	18 26	Kaus Aust	83 41.7	S 34 22.3			
	6	333 29.7	270 45.3	N 21 4.3	S 7	5 29	6 4	17 50	18 25	Kochab	137 19.1	N 74 5.8			
	7	348 32.2	285 45.3	N 21 4.8	S 8	5 30	6 6	17 48	18 23	Markab	13 37.1	N 15 17.2			
	8	3 34.6	300 45.2	N 21 5.2	S 9	5 32	6 8	17 46	18 22	Menkent	148 5.5	S 36 26.7			
	9	18 37.1	315 45.1	N 21 5.6	S 10	5 33	6 9	17 45	18 20	Miaplacidu	221 39.4	S 69 47.3			
	10	33 39.5	330 45.1	N 21 6.1	S 11	5 35	6 11	17 43	18 19	Mirfak	308 38.9	N 49 54.7			
	11	48 42.0	345 45.0	N 21 6.5	S 12	5 36	6 12	17 42	18 17	Nunki	75 56.4	S 26 16.4			
	12	63 44.5	0 44.9	N 21 7.0	S 13	5 38	6 14	17 40	18 16	Peacock	53 17.0	S 56 40.7			
	13	78 46.9	15 44.9	N 21 7.4	S 14	5 39	6 15	17 38	18 14	Pollux	243 26.2	N 27 59.2			
	14	93 49.4	30 44.8	N 21 7.8	S 15	5 41	6 17	17 37	18 13	Procyon	244 58.4	N 5 11.1			
	15	108 51.9	45 44.7	N 21 8.3	S 20	5 48	6 25	17 28	18 6	Rasalhague	96 4.9	N 12 33.1			
	16	123 54.3	60 44.7	N 21 8.7	S 25	5 56	6 34	17 19	17 58	Regulus	207 42.1	N 11 53.4			
	17	138 56.8	75 44.6	N 21 9.1	S 30	6 4	6 44	17 9	17 50	Rigel	281 11.1	S 8 11.3			
	18	153 59.3	90 44.5	N 21 9.5	S 35	6 12	6 55	16 58	17 42	Rigel Kent	139 47.3	S 60 54.1			
	19	169 1.7	105 44.5	N 21 10.0	S 40	6 21	7 8	16 46	17 33	Schedar	349 39.2	N 56 37.0			
	20	184 4.2	120 44.4	N 21 10.4	S 45	6 31	7 22	16 31	17 23	Shaula	96 19.7	S 37 6.6			
	21	199 6.7	135 44.3	N 21 10.8	S 50	6 43	7 40	16 13	17 11	Sirius	258 32.7	S 16 44.2			
	22	214 9.1	150 44.3	N 21 11.3	S 55	6 57	8 7	15 50	16 57	Spica	158 29.6	S 11 14.5			
23	229 11.6	165 44.2	N 21 11.7	S 60	7 15	8 39	15 18	16 39	Vega	80 37.8	N 38 47.9				
Día	Sol				Luna										
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día	Porcentaje de iluminación	Fase								
25	m s	m s		h m											
26	3 9	3 6	0.5	11 57	7.0	43									
	3 3	3 0	0.5	11 57	7.9	52									

Tabla G. Miércoles 27 de mayo – jueves 28 de mayo de 2015.


Día	TU	Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		Aries	Sol							Nombre	SHA	Dec.
		GHA	GHA	Dec.	Lat.	h m	h m	h m	h m		SHA	Dec.
		° /	° /	° /	°						° /	° /
27	h				°	h m	h m	h m	h m	Nombre	SHA	Dec.
	0	244 14.0	180 44.1	N 21 12.1	N 60	—	2 57	20 59	—	Achernar	335 26.4	S 57 9.4
	1	259 16.5	195 44.1	N 21 12.5	N 55	2 3	3 34	20 22	21 53	Acruz	173 7.3	S 63 11.3
	2	274 19.0	210 44.0	N 21 13.0	N 50	2 50	4 0	19 55	21 5	Adhara	255 11.8	S 28 59.9
	3	289 21.4	225 43.9	N 21 13.4	N 45	3 21	4 19	19 35	20 34	Aldebaran	290 48.2	N 16 32.2
	4	304 23.9	240 43.8	N 21 13.8	N 40	3 44	4 35	19 19	20 11	Alioth	166 19.4	N 55 52.8
	5	319 26.4	255 43.8	N 21 14.2	N 35	4 3	4 49	19 6	19 52	Alkaid	152 57.5	N 49 14.4
	6	334 28.8	270 43.7	N 21 14.7	N 30	4 18	5 1	18 54	19 37	Alnair	27 42.2	S 46 52.8
	7	349 31.3	285 43.6	N 21 15.1	N 25	4 31	5 11	18 43	19 24	Alnilam	275 45.4	S 1 11.8
	8	4 33.8	300 43.6	N 21 15.5	N 20	4 42	5 21	18 34	19 12	Alphard	217 54.9	S 8 43.8
	9	19 36.2	315 43.5	N 21 15.9	N 15	4 52	5 29	18 25	19 2	Alpheratz	357 42.3	N 29 10.4
	10	34 38.7	330 43.4	N 21 16.3	N 14	4 54	5 31	18 23	19 0	Altair	62 6.9	N 8 54.5
	11	49 41.1	345 43.3	N 21 16.8	N 13	4 56	5 33	18 22	18 58	Antares	112 24.2	S 26 27.8
	12	64 43.6	0 43.3	N 21 17.2	N 12	4 58	5 34	18 20	18 56	Arcturus	145 54.0	N 19 6.8
	13	79 46.1	15 43.2	N 21 17.6	N 11	5 0	5 36	18 18	18 55	Atria	107 24.3	S 69 3.1
	14	94 48.5	30 43.1	N 21 18.0	N 10	5 2	5 38	18 17	18 53	Avior	234 17.7	S 59 34.0
	15	109 51.0	45 43.1	N 21 18.4	N 9	5 3	5 39	18 15	18 51	Bellatrix	278 30.9	N 6 21.6
	16	124 53.5	60 43.0	N 21 18.8	N 8	5 5	5 41	18 13	18 49	Betelgeuse	271 0.2	N 7 24.3
	17	139 55.9	75 42.9	N 21 19.3	N 7	5 7	5 43	18 12	18 48	Canopus	263 56.1	S 52 42.6
	18	154 58.4	90 42.8	N 21 19.7	N 6	5 9	5 44	18 10	18 46	Capella	280 33.0	N 46 0.7
	19	170 0.9	105 42.8	N 21 20.1	N 5	5 10	5 46	18 9	18 44	Deneb	49 30.3	N 45 20.0
	20	185 3.3	120 42.7	N 21 20.5	N 4	5 12	5 47	18 7	18 42	Denebola	182 32.1	N 14 29.2
	21	200 5.8	135 42.6	N 21 20.9	N 3	5 14	5 49	18 5	18 41	Dubhe	193 50.1	N 61 40.3
22	215 8.3	150 42.5	N 21 21.3	N 2	5 15	5 50	18 4	18 39	Elnath	278 11.3	N 28 37.0	
23	230 10.7	165 42.5	N 21 21.7	N 1	5 17	5 52	18 2	18 38	Eltanin	90 45.0	N 51 29.3	
28	0	245 13.2	180 42.4	N 21 22.1	S 1	5 20	5 55	17 59	18 34	Enif	33 45.8	N 9 56.8
	1	260 15.6	195 42.3	N 21 22.6	S 2	5 22	5 57	17 58	18 33	Formalhaut	15 22.7	S 29 32.2
	2	275 18.1	210 42.2	N 21 23.0	S 3	5 23	5 58	17 56	18 31	Gacrux	171 59.0	S 57 12.2
	3	290 20.6	225 42.2	N 21 23.4	S 4	5 25	6 0	17 54	18 30	Hadar	148 45.3	S 60 26.9
	4	305 23.0	240 42.1	N 21 23.8	S 5	5 26	6 1	17 53	18 28	Hamal	327 59.6	N 23 31.9
	5	320 25.5	255 42.0	N 21 24.2	S 6	5 28	6 3	17 51	18 27	Kaus Aust	83 41.7	S 34 22.3
	6	335 28.0	270 41.9	N 21 24.6	S 7	5 29	6 5	17 50	18 25	Kochab	137 19.1	N 74 5.8
	7	350 30.4	285 41.9	N 21 25.0	S 8	5 31	6 6	17 48	18 23	Markab	13 37.1	N 15 17.2
	8	5 32.9	300 41.8	N 21 25.4	S 9	5 33	6 8	17 46	18 22	Menkent	148 5.5	S 36 26.7
	9	20 35.4	315 41.7	N 21 25.8	S 10	5 34	6 9	17 45	18 20	Miaplacidu	221 39.4	S 69 47.3
	10	35 37.8	330 41.6	N 21 26.2	S 11	5 35	6 11	17 43	18 19	Mirfak	308 38.9	N 49 54.7
	11	50 40.3	345 41.6	N 21 26.6	S 12	5 37	6 13	17 42	18 17	Nunki	75 56.4	S 26 16.4
	12	65 42.8	0 41.5	N 21 27.0	S 13	5 38	6 14	17 40	18 16	Peacock	53 16.9	S 56 40.7
	13	80 45.2	15 41.4	N 21 27.4	S 14	5 40	6 16	17 38	18 14	Pollux	243 26.2	N 27 59.2
	14	95 47.7	30 41.3	N 21 27.8	S 15	5 41	6 18	17 37	18 13	Procyon	244 58.4	N 5 11.2
	15	110 50.1	45 41.3	N 21 28.2	S 20	5 49	6 26	17 28	18 5	Rasalhague	96 4.9	N 12 33.1
	16	125 52.6	60 41.2	N 21 28.6	S 25	5 57	6 35	17 19	17 58	Regulus	207 42.1	N 11 53.4
	17	140 55.1	75 41.1	N 21 29.0	S 30	6 5	6 45	17 9	17 50	Rigel	281 11.1	S 8 11.3
	18	155 57.5	90 41.0	N 21 29.4	S 35	6 13	6 56	16 58	17 41	Rigel Kent	139 47.3	S 60 54.1
	19	171 0.0	105 41.0	N 21 29.8	S 40	6 22	7 9	16 45	17 32	Schedar	349 39.2	N 56 37.0
	20	186 2.5	120 40.9	N 21 30.2	S 45	6 33	7 24	16 30	17 21	Shaula	96 19.7	S 37 6.6
	21	201 4.9	135 40.8	N 21 30.6	S 50	6 45	7 46	16 11	17 9	Sirius	258 32.7	S 16 44.2
	22	216 7.4	150 40.7	N 21 31.0	S 55	6 59	8 10	15 48	16 55	Spica	158 29.6	S 11 14.5
23	231 9.9	165 40.6	N 21 31.4	S 60	7 17	8 43	15 15	16 36	Vega	80 37.8	N 38 47.9	
		Sol			Luna							
Día	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día	Porcentaje de iluminación		Fase				
	m s	m s		h m								
27	2 57	2 53	0.4	11 57	8.7	62						
28	2 50	2 46	0.4	11 57	9.5	71						

Tabla G. Viernes 29 de mayo – sábado 30 de mayo de 2015.


Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
	h	° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m	h m	h m	° / ' / "	° / ' / "	° / ' / "	
29	0	246 12.3	180 40.6	N 21 31.8	N 60	—	2 53	21 3	—	Achernar	335 26.4	S 57 9.4			
	1	261 14.8	195 40.5	N 21 32.2	N 55	1 59	3 31	20 24	21 57	Acrux	173 7.3	S 63 11.3			
	2	276 17.3	210 40.4	N 21 32.6	N 50	2 48	3 58	19 58	21 8	Adhara	255 11.8	S 28 59.9			
	3	291 19.7	225 40.3	N 21 33.0	N 45	3 19	4 18	19 37	20 36	Aldebaran	290 48.2	N 16 32.2			
	4	306 22.2	240 40.2	N 21 33.4	N 40	3 43	4 34	19 21	20 13	Alioth	166 19.4	N 55 52.8			
	5	321 24.6	255 40.2	N 21 33.8	N 35	4 1	4 48	19 7	19 54	Alkaid	152 57.5	N 49 14.4			
	6	336 27.1	270 40.1	N 21 34.2	N 30	4 17	5 0	18 55	19 38	Alnair	27 42.2	S 46 52.8			
	7	351 29.6	285 40.0	N 21 34.6	N 25	4 30	5 11	18 44	19 25	Alnilam	275 45.4	S 1 11.8			
	8	6 32.0	300 39.9	N 21 35.0	N 20	4 42	5 20	18 35	19 13	Alphard	217 54.9	S 8 43.8			
	9	21 34.5	315 39.8	N 21 35.3	N 15	4 52	5 29	18 26	19 3	Alpheratz	357 42.3	N 29 10.4			
	10	36 37.0	330 39.8	N 21 35.7	N 14	4 54	5 31	18 24	19 1	Altair	62 6.9	N 8 54.6			
	11	51 39.4	345 39.7	N 21 36.1	N 13	4 56	5 33	18 22	18 59	Antares	112 24.2	S 26 27.8			
	12	66 41.9	0 39.6	N 21 36.5	N 12	4 58	5 34	18 21	18 57	Arcturus	145 54.0	N 19 6.8			
	13	81 44.4	15 39.5	N 21 36.9	N 11	5 0	5 36	18 19	18 55	Atria	107 24.3	S 69 3.1			
	14	96 46.8	30 39.4	N 21 37.3	N 10	5 2	5 38	18 17	18 53	Avior	234 17.8	S 59 34.0			
	15	111 49.3	45 39.4	N 21 37.7	N 9	5 3	5 39	18 16	18 52	Bellatrix	278 30.9	N 6 21.6			
	16	126 51.7	60 39.3	N 21 38.1	N 8	5 5	5 41	18 14	18 50	Betelgeuse	271 0.2	N 7 24.3			
	17	141 54.2	75 39.2	N 21 38.4	N 7	5 7	5 43	18 12	18 48	Canopus	263 56.1	S 52 42.6			
	18	156 56.7	90 39.1	N 21 38.8	N 6	5 9	5 44	18 11	18 46	Capella	280 33.0	N 46 0.7			
	19	171 59.1	105 39.0	N 21 39.2	N 5	5 10	5 46	18 9	18 45	Deneb	49 30.3	N 45 20.0			
	20	187 1.6	120 38.9	N 21 39.6	N 4	5 12	5 47	18 7	18 43	Denebola	182 32.1	N 14 29.2			
	21	202 4.1	135 38.9	N 21 40.0	N 3	5 14	5 49	18 6	18 41	Dubhe	193 50.1	N 61 40.3			
	22	217 6.5	150 38.8	N 21 40.4	N 2	5 15	5 51	18 4	18 40	Elnath	278 11.3	N 28 37.0			
23	232 9.0	165 38.7	N 21 40.7	N 1	5 17	5 52	18 3	18 38	Eltanin	90 45.0	N 51 29.3				
				0	5 19	5 54	18 1	18 36							
30	0	247 11.5	180 38.6	N 21 41.1	S 1	5 20	5 55	17 59	18 35	Enif	33 45.7	N 9 56.8			
	1	262 13.9	195 38.5	N 21 41.5	S 2	5 22	5 57	17 58	18 33	Formalhaut	15 22.7	S 29 32.2			
	2	277 16.4	210 38.4	N 21 41.9	S 3	5 23	5 59	17 56	18 31	Gacrux	171 59.0	S 57 12.2			
	3	292 18.9	225 38.4	N 21 42.2	S 4	5 25	6 0	17 55	18 30	Hadar	148 45.3	S 60 26.9			
	4	307 21.3	240 38.3	N 21 42.6	S 5	5 27	6 2	17 53	18 28	Hamal	327 59.6	N 23 31.9			
	5	322 23.8	255 38.2	N 21 43.0	S 6	5 28	6 3	17 51	18 27	Kaus Aust	83 41.7	S 34 22.3			
	6	337 26.2	270 38.1	N 21 43.4	S 7	5 30	6 5	17 50	18 25	Kochab	137 19.2	N 74 5.8			
	7	352 28.7	285 38.0	N 21 43.8	S 8	5 31	6 7	17 48	18 24	Markab	13 37.1	N 15 17.2			
	8	7 31.2	300 37.9	N 21 44.1	S 9	5 33	6 9	17 46	18 22	Menkent	148 5.5	S 36 26.7			
	9	22 33.6	315 37.9	N 21 44.5	S 10	5 34	6 10	17 45	18 21	Miaplacidu	221 39.5	S 69 47.3			
	10	37 36.1	330 37.8	N 21 44.9	S 11	5 36	6 12	17 43	18 19	Mirfak	308 38.9	N 49 54.7			
	11	52 38.6	345 37.7	N 21 45.2	S 12	5 37	6 13	17 42	18 17	Nunki	75 56.4	S 26 16.4			
	12	67 41.0	0 37.6	N 21 45.6	S 13	5 39	6 15	17 40	18 16	Peacock	53 16.9	S 56 40.7			
	13	82 43.5	15 37.5	N 21 46.0	S 14	5 40	6 17	17 38	18 14	Pollux	243 26.2	N 27 59.2			
	14	97 46.0	30 37.4	N 21 46.4	S 15	5 42	6 18	17 36	18 13	Procyon	244 58.4	N 5 11.2			
	15	112 48.4	45 37.3	N 21 46.7	S 20	5 50	6 27	17 28	18 5	Rasalhague	96 4.9	N 12 33.1			
	16	127 50.9	60 37.3	N 21 47.1	S 25	5 57	6 36	17 18	17 57	Regulus	207 42.1	N 11 53.4			
	17	142 53.4	75 37.2	N 21 47.5	S 30	6 6	6 46	17 8	17 49	Rigel	281 11.1	S 8 11.3			
	18	157 55.8	90 37.1	N 21 47.8	S 35	6 14	6 58	16 57	17 40	Rigel Kent	139 47.3	S 60 54.2			
	19	172 58.3	105 37.0	N 21 48.2	S 40	6 24	7 11	16 44	17 31	Schedar	349 39.2	N 56 37.0			
	20	188 0.7	120 36.9	N 21 48.6	S 45	6 34	7 26	16 29	17 20	Shaula	96 19.7	S 37 6.6			
	21	203 3.2	135 36.8	N 21 48.9	S 50	6 47	7 49	16 10	17 8	Sirius	258 32.7	S 16 44.2			
	22	218 5.7	150 36.7	N 21 49.3	S 55	7 1	8 13	15 46	16 53	Spica	158 29.6	S 11 14.5			
23	233 8.1	165 36.6	N 21 49.7	S 60	7 20	8 47	15 12	16 34	Vega	80 37.7	N 38 47.9				
		Sol			Luna										
Día		Ecuación del tiempo (00 ^h)	Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación	Fase							
		m s	m s	h m											
29		2 42	2 38	11 57		10.4	79								
30		2 35	2 30	11 57		11.3	86								

Tabla G. Domingo 31 de mayo – lunes 1 de junio de 2015.


Día	TU	Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		Aries	Sol							Nombre	SHA	Dec.
		GHA	GHA	Dec.		h m	h m	h m	h m		° / ' / "	° / ' / "
31	h				°							
	0	248 10.6	180 36.6	N 21 50.0	N 60	—	2 50	21 7	—	Achernar	335 26.4	S 57 9.4
	1	263 13.1	195 36.5	N 21 50.4	N 55	1 55	3 29	20 27	22 2	Acrux	173 7.3	S 63 11.3
	2	278 15.5	210 36.4	N 21 50.8	N 50	2 45	3 56	20 0	21 11	Alhara	255 11.8	S 28 59.9
	3	293 18.0	225 36.3	N 21 51.1	N 45	3 18	4 17	19 39	20 38	Aldebaran	290 48.2	N 16 32.2
	4	308 20.5	240 36.2	N 21 51.5	N 40	3 42	4 33	19 22	20 14	Alioth	166 19.4	N 55 52.8
	5	323 22.9	255 36.1	N 21 51.8	N 35	4 1	4 47	19 8	19 55	Alkaid	152 57.5	N 49 14.4
	6	338 25.4	270 36.0	N 21 52.2	N 30	4 16	5 0	18 56	19 39	Alnair	27 42.1	S 46 52.8
	7	353 27.8	285 35.9	N 21 52.6	N 25	4 30	5 10	18 45	19 26	Alnilam	275 45.4	S 1 11.8
	8	8 30.3	300 35.9	N 21 52.9	N 20	4 41	5 20	18 36	19 14	Alphard	217 54.9	S 8 43.8
	9	23 32.8	315 35.8	N 21 53.3	N 15	4 52	5 29	18 26	19 4	Alpheratz	357 42.3	N 29 10.4
	10	38 35.2	330 35.7	N 21 53.6	N 14	4 54	5 31	18 25	19 2	Altair	62 6.8	N 8 54.6
	11	53 37.7	345 35.6	N 21 54.0	N 13	4 56	5 33	18 23	19 0	Antares	112 24.2	S 26 27.8
	12	68 40.2	0 35.5	N 21 54.3	N 12	4 58	5 34	18 21	18 58	Arcturus	145 54.0	N 19 6.8
	13	83 42.6	15 35.4	N 21 54.7	N 11	5 0	5 36	18 19	18 56	Atria	107 24.3	S 69 3.1
	14	98 45.1	30 35.3	N 21 55.1	N 10	5 2	5 38	18 18	18 54	Avior	234 17.8	S 59 34.0
	15	113 47.6	45 35.2	N 21 55.4	N 9	5 3	5 39	18 16	18 52	Bellatrix	278 30.9	N 6 21.6
	16	128 50.0	60 35.1	N 21 55.8	N 8	5 5	5 41	18 14	18 50	Betelgeuse	271 0.2	N 7 24.3
	17	143 52.5	75 35.0	N 21 56.1	N 7	5 7	5 43	18 13	18 49	Canopus	263 56.1	S 52 42.6
	18	158 55.0	90 35.0	N 21 56.5	N 6	5 9	5 44	18 11	18 47	Capella	280 33.0	N 46 0.7
	19	173 57.4	105 34.9	N 21 56.8	N 5	5 10	5 46	18 9	18 45	Deneb	49 30.3	N 45 20.0
	20	188 59.9	120 34.8	N 21 57.2	N 4	5 12	5 48	18 8	18 43	Denebola	182 32.1	N 14 29.2
	21	204 2.3	135 34.7	N 21 57.5	N 3	5 14	5 49	18 6	18 42	Dubhe	193 50.1	N 61 40.3
22	219 4.8	150 34.6	N 21 57.9	N 2	5 16	5 51	18 5	18 40	Elnath	278 11.3	N 28 37.0	
23	234 7.3	165 34.5	N 21 58.2	N 1	5 17	5 53	18 3	18 38	Eltanin	90 45.0	N 51 29.3	
1	0	249 9.7	180 34.4	N 21 58.6	S 1	5 20	5 56	18 0	18 35	Enif	33 45.7	N 9 56.8
	1	264 12.2	195 34.3	N 21 58.9	S 2	5 22	5 57	17 58	18 33	Formalhaut	15 22.7	S 29 32.2
	2	279 14.7	210 34.2	N 21 59.3	S 3	5 24	5 59	17 56	18 32	Gacrux	171 59.0	S 57 12.2
	3	294 17.1	225 34.1	N 21 59.6	S 4	5 25	6 1	17 55	18 30	Hadar	148 45.3	S 60 26.9
	4	309 19.6	240 34.0	N 22 00.0	S 5	5 27	6 2	17 53	18 29	Hamal	327 59.6	N 23 31.9
	5	324 22.1	255 33.9	N 22 0.3	S 6	5 28	6 4	17 52	18 27	Kaus Aust	83 41.7	S 34 22.3
	6	339 24.5	270 33.9	N 22 0.6	S 7	5 30	6 6	17 50	18 25	Kochab	137 19.2	N 74 5.8
	7	354 27.0	285 33.8	N 22 1.0	S 8	5 32	6 7	17 48	18 24	Markab	13 37.0	N 15 17.2
	8	9 29.5	300 33.7	N 22 1.3	S 9	5 33	6 9	17 46	18 22	Menkent	148 5.5	S 36 26.7
	9	24 31.9	315 33.6	N 22 1.7	S 10	5 35	6 10	17 45	18 21	Miaplacidu	221 39.5	S 69 47.3
	10	39 34.4	330 33.5	N 22 2.0	S 11	5 36	6 12	17 43	18 19	Mirfak	308 38.9	N 49 54.7
	11	54 36.8	345 33.4	N 22 2.4	S 12	5 38	6 14	17 42	18 18	Nunki	75 56.4	S 26 16.4
	12	69 39.3	0 33.3	N 22 2.7	S 13	5 39	6 15	17 40	18 16	Peacock	53 16.9	S 56 40.7
	13	84 41.8	15 33.2	N 22 3.0	S 14	5 41	6 17	17 38	18 14	Pollux	243 26.3	N 27 59.2
	14	99 44.2	30 33.1	N 22 3.4	S 15	5 42	6 19	17 36	18 13	Procyon	244 58.4	N 5 11.2
	15	114 46.7	45 33.0	N 22 3.7	S 20	5 50	6 28	17 28	18 5	Rasalhague	96 4.9	N 12 33.1
	16	129 49.2	60 32.9	N 22 4.0	S 25	5 58	6 37	17 18	17 57	Regulus	207 42.1	N 11 53.4
	17	144 51.6	75 32.8	N 22 4.4	S 30	6 7	6 48	17 8	17 49	Rigel	281 11.1	S 8 11.3
	18	159 54.1	90 32.7	N 22 4.7	S 35	6 15	6 59	16 56	17 40	Rigel Kent	139 47.3	S 60 54.2
	19	174 56.6	105 32.6	N 22 5.1	S 40	6 25	7 12	16 43	17 30	Schedar	349 39.2	N 56 37.0
	20	189 59.0	120 32.5	N 22 5.4	S 45	6 36	7 32	16 27	17 19	Shaula	96 19.7	S 37 6.6
	21	205 1.5	135 32.4	N 22 5.7	S 50	6 48	7 51	16 8	17 7	Sirius	258 32.7	S 16 44.2
	22	220 3.9	150 32.3	N 22 6.1	S 55	7 4	8 15	15 44	16 52	Spica	158 29.6	S 11 14.5
23	235 6.4	165 32.2	N 22 6.4	S 60	7 27	8 50	15 9	16 32	Vega	80 37.7	N 38 47.9	
Día	Sol				Luna							
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día	Porcentaje de iluminación		Fase				
31	m s	m s		h m								
	2 26	2 22	0.4	11 58	12.2	92						
1	2 18	2 13	0.4	11 58	13.1	96						

Tabla G. Martes 2 de junio – miércoles 3 de junio de 2015.

Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas			
		GHA	GHA	Dec.	Nombre	SHA	Dec.									
	h	° / ' / "	° / ' / "	° / ' / "	°	h	m	h	m	h	m	h	m		° / ' / "	° / ' / "
2	0	250 8.9	180 32.2	N 22 6.7	N 60	—	—	2 47	21 10	—	—	—	—	Achernar	335 26.4	S 57 9.4
	1	265 11.3	195 32.1	N 22 7.1	N 55	1 52	3 27	20 30	22 6	22 6	22 6	22 6	22 6	Acruz	173 7.3	S 63 11.3
	2	280 13.8	210 32.0	N 22 7.4	N 50	2 43	3 55	20 2	21 14	21 14	21 14	21 14	21 14	Adhara	255 11.8	S 28 59.9
	3	295 16.3	225 31.9	N 22 7.7	N 45	3 16	4 16	19 41	20 40	20 40	20 40	20 40	20 40	Aldebaran	290 48.2	N 16 32.2
	4	310 18.7	240 31.8	N 22 8.0	N 40	3 41	4 33	19 24	20 16	20 16	20 16	20 16	20 16	Alioth	166 19.4	N 55 52.8
	5	325 21.2	255 31.7	N 22 8.4	N 35	4 0	4 47	19 9	19 57	19 57	19 57	19 57	19 57	Alkaid	152 57.5	N 49 14.4
	6	340 23.7	270 31.6	N 22 8.7	N 30	4 16	4 59	18 57	19 41	19 41	19 41	19 41	19 41	Alnair	27 42.1	S 46 52.8
	7	355 26.1	285 31.5	N 22 9.0	N 25	4 29	5 10	18 46	19 27	19 27	19 27	19 27	19 27	Alnilam	275 45.4	S 1 11.8
	8	10 28.6	300 31.4	N 22 9.4	N 20	4 41	5 20	18 36	19 15	19 15	19 15	19 15	19 15	Alphard	217 54.9	S 8 43.8
	9	25 31.1	315 31.3	N 22 9.7	N 15	4 52	5 29	18 27	19 4	19 4	19 4	19 4	19 4	Alpheratz	357 42.2	N 29 10.4
	10	40 33.5	330 31.2	N 22 10.0	N 14	4 54	5 31	18 25	19 2	19 2	19 2	19 2	19 2	Altair	62 6.8	N 8 54.6
	11	55 36.0	345 31.1	N 22 10.3	N 13	4 56	5 33	18 23	19 0	19 0	19 0	19 0	19 0	Antares	112 24.2	S 26 27.8
	12	70 38.4	0 31.0	N 22 10.7	N 12	4 58	5 34	18 22	18 58	18 58	18 58	18 58	18 58	Arcturus	145 54.0	N 19 6.8
	13	85 40.9	15 30.9	N 22 11.0	N 11	5 0	5 36	18 20	18 56	18 56	18 56	18 56	18 56	Atria	107 24.2	S 69 3.1
	14	100 43.4	30 30.8	N 22 11.3	N 10	5 2	5 38	18 18	18 55	18 55	18 55	18 55	18 55	Avior	234 17.8	S 59 34.0
	15	115 45.8	45 30.7	N 22 11.6	N 9	5 3	5 40	18 17	18 53	18 53	18 53	18 53	18 53	Bellatrix	278 30.9	N 6 21.6
	16	130 48.3	60 30.6	N 22 11.9	N 8	5 5	5 41	18 15	18 51	18 51	18 51	18 51	18 51	Betelgeuse	271 0.2	N 7 24.3
	17	145 50.8	75 30.5	N 22 12.3	N 7	5 7	5 43	18 13	18 49	18 49	18 49	18 49	18 49	Canopus	263 56.1	S 52 42.6
	18	160 53.2	90 30.4	N 22 12.6	N 6	5 9	5 45	18 12	18 47	18 47	18 47	18 47	18 47	Capella	280 33.0	N 46 0.7
	19	175 55.7	105 30.3	N 22 12.9	N 5	5 11	5 46	18 10	18 46	18 46	18 46	18 46	18 46	Deneb	49 30.2	N 45 20.1
	20	190 58.2	120 30.2	N 22 13.2	N 4	5 12	5 48	18 8	18 44	18 44	18 44	18 44	18 44	Denebola	182 32.1	N 14 29.2
	21	206 0.6	135 30.1	N 22 13.5	N 3	5 14	5 50	18 7	18 42	18 42	18 42	18 42	18 42	Dubhe	193 50.2	N 61 40.3
	22	221 3.1	150 30.0	N 22 13.9	N 2	5 16	5 51	18 5	18 40	18 40	18 40	18 40	18 40	Elnath	278 11.3	N 28 37.0
23	236 5.6	165 29.9	N 22 14.2	N 1	5 17	5 53	18 3	18 39	18 39	18 39	18 39	18 39	Eltanin	90 45.0	N 51 29.3	
					0	5 19	5 54	18 2	18 37	18 37	18 37	18 37	18 37			
3	0	251 8.0	180 29.8	N 22 14.5	S 1	5 21	5 56	18 0	18 35	18 35	18 35	18 35	18 35	Enif	33 45.7	N 9 56.8
	1	266 10.5	195 29.7	N 22 14.8	S 2	5 22	5 58	17 58	18 34	18 34	18 34	18 34	18 34	Formalhaut	15 22.7	S 29 32.2
	2	281 12.9	210 29.6	N 22 15.1	S 3	5 24	5 59	17 57	18 32	18 32	18 32	18 32	18 32	Gacrux	171 59.0	S 57 12.2
	3	296 15.4	225 29.5	N 22 15.4	S 4	5 26	6 1	17 55	18 30	18 30	18 30	18 30	18 30	Hadar	148 45.3	S 60 26.9
	4	311 17.9	240 29.4	N 22 15.7	S 5	5 27	6 3	17 53	18 29	18 29	18 29	18 29	18 29	Hamal	327 59.6	N 23 31.9
	5	326 20.3	255 29.3	N 22 16.1	S 6	5 29	6 4	17 52	18 27	18 27	18 27	18 27	18 27	Kaus Aust	83 41.7	S 34 22.3
	6	341 22.8	270 29.2	N 22 16.4	S 7	5 30	6 6	17 50	18 26	18 26	18 26	18 26	18 26	Kochab	137 19.2	N 74 5.8
	7	356 25.3	285 29.1	N 22 16.7	S 8	5 32	6 8	17 48	18 24	18 24	18 24	18 24	18 24	Markab	13 37.0	N 15 17.2
	8	11 27.7	300 29.0	N 22 17.0	S 9	5 34	6 10	17 46	18 22	18 22	18 22	18 22	18 22	Menkent	148 5.5	S 36 26.7
	9	26 30.2	315 28.9	N 22 17.3	S 10	5 35	6 11	17 45	18 21	18 21	18 21	18 21	18 21	Miaplacidu	221 39.5	S 69 47.3
	10	41 32.7	330 28.8	N 22 17.6	S 11	5 37	6 13	17 43	18 19	18 19	18 19	18 19	18 19	Mirfak	308 38.9	N 49 54.6
	11	56 35.1	345 28.7	N 22 17.9	S 12	5 38	6 14	17 42	18 18	18 18	18 18	18 18	18 18	Nunki	75 56.4	S 26 16.4
	12	71 37.6	0 28.6	N 22 18.2	S 13	5 40	6 16	17 40	18 16	18 16	18 16	18 16	18 16	Peacock	53 16.9	S 56 40.7
	13	86 40.0	15 28.5	N 22 18.5	S 14	5 41	6 18	17 38	18 15	18 15	18 15	18 15	18 15	Pollux	243 26.3	N 27 59.2
	14	101 42.5	30 28.4	N 22 18.8	S 15	5 43	6 20	17 36	18 13	18 13	18 13	18 13	18 13	Procyon	244 58.4	N 5 11.2
	15	116 45.0	45 28.3	N 22 19.2	S 20	5 51	6 29	17 27	18 5	18 5	18 5	18 5	18 5	Rasalhague	96 4.9	N 12 33.2
	16	131 47.4	60 28.2	N 22 19.5	S 25	5 59	6 38	17 18	17 57	17 57	17 57	17 57	17 57	Regulus	207 42.1	N 11 53.4
	17	146 49.9	75 28.1	N 22 19.8	S 30	6 7	6 49	17 7	17 48	17 48	17 48	17 48	17 48	Rigel	281 11.1	S 8 11.3
	18	161 52.4	90 28.0	N 22 20.1	S 35	6 16	7 0	16 56	17 39	17 39	17 39	17 39	17 39	Rigel Kent	139 47.3	S 60 54.2
	19	176 54.8	105 27.9	N 22 20.4	S 40	6 26	7 14	16 42	17 30	17 30	17 30	17 30	17 30	Schedar	349 39.2	N 56 37.0
	20	191 57.3	120 27.8	N 22 20.7	S 45	6 37	7 33	16 26	17 19	17 19	17 19	17 19	17 19	Shaula	96 19.7	S 37 6.6
	21	206 59.8	135 27.7	N 22 21.0	S 50	6 50	7 53	16 7	17 6	17 6	17 6	17 6	17 6	Sirius	258 32.7	S 16 44.2
	22	222 2.2	150 27.6	N 22 21.3	S 55	7 6	8 18	15 42	16 50	16 50	16 50	16 50	16 50	Spica	158 29.6	S 11 14.5
23	237 4.7	165 27.5	N 22 21.6	S 60	7 29	8 53	15 7	16 30	16 30	16 30	16 30	16 30	Vega	80 37.7	N 38 47.9	
		Sol						Luna								
Día	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase							
	m	s		h	m											
2	2 9	2 4	0.3	11 58		14.1	99									
3	1 59	1 54	0.3	11 58		15.2	99									

Tabla G. Jueves 4 de junio – viernes 5 de junio de 2015.


Día	TU	Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		Aries	Sol							Nombre	SHA	Dec.
		GHA	GHA	Dec.	Lat.	h m	h m	h m	h m		SHA	Dec.
		° / ' / "	° / ' / "	° / ' / "	°						° / ' / "	° / ' / "
4	h				°	h m	h m	h m	h m			
	0	252 7.2	180 27.4	N 22 21.9	N 60	—	2 45	21 13	—	Achernar	335 26.4	S 57 9.4
	1	267 9.6	195 27.3	N 22 22.2	N 55	1 49	3 26	20 32	22 10	Acrux	173 7.4	S 63 11.3
	2	282 12.1	210 27.1	N 22 22.5	N 50	2 42	3 54	20 4	21 16	Adhara	255 11.8	S 28 59.9
	3	297 14.5	225 27.0	N 22 22.8	N 45	3 15	4 15	19 42	20 42	Aldebaran	290 48.2	N 16 32.2
	4	312 17.0	240 26.9	N 22 23.1	N 40	3 40	4 32	19 25	20 17	Alioth	166 19.4	N 55 52.8
	5	327 19.5	255 26.8	N 22 23.4	N 35	3 59	4 46	19 11	19 58	Alkaid	152 57.6	N 49 14.4
	6	342 21.9	270 26.7	N 22 23.7	N 30	4 15	4 59	18 58	19 42	Alnair	27 42.1	S 46 52.8
	7	357 24.4	285 26.6	N 22 24.0	N 25	4 29	5 10	18 47	19 28	Alnilam	275 45.4	S 1 11.8
	8	12 26.9	300 26.5	N 22 24.2	N 20	4 41	5 20	18 37	19 16	Alphard	217 54.9	S 8 43.8
	9	27 29.3	315 26.4	N 22 24.5	N 15	4 52	5 29	18 28	19 5	Alpheratz	357 42.2	N 29 10.4
	10	42 31.8	330 26.3	N 22 24.8	N 14	4 54	5 31	18 26	19 3	Altair	62 6.8	N 8 54.6
	11	57 34.3	345 26.2	N 22 25.1	N 13	4 56	5 33	18 24	19 1	Antares	112 24.2	S 26 27.8
	12	72 36.7	0 26.1	N 22 25.4	N 12	4 58	5 34	18 22	18 59	Arcturus	145 54.0	N 19 6.8
	13	87 39.2	15 26.0	N 22 25.7	N 11	5 0	5 36	18 21	18 57	Atria	107 24.2	S 69 3.1
	14	102 41.7	30 25.9	N 22 26.0	N 10	5 2	5 38	18 19	18 55	Avior	234 17.8	S 59 34.0
	15	117 44.1	45 25.8	N 22 26.3	N 9	5 3	5 40	18 17	18 53	Bellatrix	278 30.9	N 6 21.6
	16	132 46.6	60 25.7	N 22 26.6	N 8	5 5	5 41	18 15	18 51	Betelgeuse	271 0.2	N 7 24.3
	17	147 49.0	75 25.6	N 22 26.9	N 7	5 7	5 43	18 14	18 50	Canopus	263 56.1	S 52 42.6
	18	162 51.5	90 25.5	N 22 27.2	N 6	5 9	5 45	18 12	18 48	Capella	280 33.0	N 46 0.7
	19	177 54.0	105 25.4	N 22 27.4	N 5	5 11	5 46	18 10	18 46	Deneb	49 30.2	N 45 20.1
	20	192 56.4	120 25.2	N 22 27.7	N 4	5 12	5 48	18 9	18 44	Denebola	182 32.1	N 14 29.2
	21	207 58.9	135 25.1	N 22 28.0	N 3	5 14	5 50	18 7	18 43	Dubhe	193 50.2	N 61 40.3
22	223 1.4	150 25.0	N 22 28.3	N 2	5 16	5 51	18 5	18 41	Elnath	278 11.3	N 28 37.0	
23	238 3.8	165 24.9	N 22 28.6	N 1	5 18	5 53	18 4	18 39	Eltanin	90 45.0	N 51 29.3	
5	0	253 6.3	180 24.8	N 22 28.9	S 1	5 21	5 56	18 0	18 36	Enif	33 45.7	N 9 56.8
	1	268 8.8	195 24.7	N 22 29.1	S 2	5 23	5 58	17 59	18 34	Formalhaut	15 22.7	S 29 32.2
	2	283 11.2	210 24.6	N 22 29.4	S 3	5 24	6 0	17 57	18 32	Gacrux	171 59.0	S 57 12.2
	3	298 13.7	225 24.5	N 22 29.7	S 4	5 26	6 1	17 55	18 31	Hadar	148 45.3	S 60 26.9
	4	313 16.2	240 24.4	N 22 30.0	S 5	5 28	6 3	17 54	18 29	Hamal	327 59.5	N 23 31.9
	5	328 18.6	255 24.3	N 22 30.3	S 6	5 29	6 5	17 52	18 28	Kaus Aust	83 41.7	S 34 22.3
	6	343 21.1	270 24.2	N 22 30.6	S 7	5 31	6 6	17 50	18 26	Kochab	137 19.2	N 74 5.8
	7	358 23.5	285 24.1	N 22 30.8	S 8	5 32	6 8	17 49	18 24	Markab	13 37.0	N 15 17.2
	8	13 26.0	300 24.0	N 22 31.1	S 9	5 34	6 10	17 47	18 22	Menkent	148 5.5	S 36 26.7
	9	28 28.5	315 23.8	N 22 31.4	S 10	5 36	6 12	17 45	18 21	Miaplacidu	221 39.5	S 69 47.3
	10	43 30.9	330 23.7	N 22 31.7	S 11	5 37	6 13	17 43	18 19	Mirfak	308 38.9	N 49 54.6
	11	58 33.4	345 23.6	N 22 31.9	S 12	5 39	6 15	17 42	18 18	Nunki	75 56.4	S 26 16.4
	12	73 35.9	0 23.5	N 22 32.2	S 13	5 40	6 17	17 40	18 16	Peacock	53 16.9	S 56 40.7
	13	88 38.3	15 23.4	N 22 32.5	S 14	5 42	6 18	17 38	18 15	Pollux	243 26.3	N 27 59.2
	14	103 40.8	30 23.3	N 22 32.8	S 15	5 44	6 20	17 37	18 13	Procyon	244 58.4	N 5 11.2
	15	118 43.3	45 23.2	N 22 33.0	S 20	5 52	6 29	17 27	18 5	Rasalhague	96 4.9	N 12 33.2
	16	133 45.7	60 23.1	N 22 33.3	S 25	6 0	6 39	17 18	17 57	Regulus	207 42.1	N 11 53.4
	17	148 48.2	75 23.0	N 22 33.6	S 30	6 8	6 50	17 7	17 48	Rigel	281 11.1	S 8 11.3
	18	163 50.6	90 22.9	N 22 33.9	S 35	6 17	7 1	16 55	17 39	Rigel Kent	139 47.3	S 60 54.2
	19	178 53.1	105 22.8	N 22 34.1	S 40	6 27	7 19	16 42	17 29	Schedar	349 39.1	N 56 37.0
	20	193 55.6	120 22.6	N 22 34.4	S 45	6 39	7 35	16 26	17 18	Shaula	96 19.7	S 37 6.6
	21	208 58.0	135 22.5	N 22 34.7	S 50	6 52	7 54	16 6	17 5	Sirius	258 32.7	S 16 44.2
	22	224 0.5	150 22.4	N 22 34.9	S 55	7 11	8 20	15 40	16 49	Spica	158 29.6	S 11 14.5
23	239 3.0	165 22.3	N 22 35.2	S 60	7 31	8 56	15 4	16 29	Vega	80 37.7	N 38 47.9	
		Sol			Luna							
Día	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día	Porcentaje de iluminación		Fase				
	m s	m s		h m								
4	1 50	1 45	0.3	11 58	16.2	97						
5	1 39	1 34	0.3	11 58	17.3	93						

Tabla G. Sábado 6 de junio – domingo 7 de junio de 2015.


Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
6	h	° /	° /	° /	°	h m	h m	h m	h m	h m	h m	h m	° /	° /	° /
	0	254 5.4	180 22.2	N 22 35.5	N 60	—	2 42	21 16	—	Achernar	335 26.3	S 57 9.4			
	1	269 7.9	195 22.1	N 22 35.7	N 55	1 46	3 24	20 34	22 13	Acrux	173 7.4	S 63 11.4			
	2	284 10.4	210 22.0	N 22 36.0	N 50	2 40	3 53	20 5	21 18	Adhara	255 11.8	S 28 59.9			
	3	299 12.8	225 21.9	N 22 36.3	N 45	3 14	4 14	19 44	20 44	Aldebaran	290 48.2	N 16 32.2			
	4	314 15.3	240 21.8	N 22 36.5	N 40	3 39	4 31	19 26	20 19	Alioth	166 19.4	N 55 52.8			
	5	329 17.8	255 21.6	N 22 36.8	N 35	3 59	4 46	19 12	19 59	Alkaid	152 57.6	N 49 14.4			
	6	344 20.2	270 21.5	N 22 37.1	N 30	4 15	4 59	18 59	19 43	Alnair	27 42.1	S 46 52.8			
	7	359 22.7	285 21.4	N 22 37.3	N 25	4 29	5 10	18 48	19 29	Alnilam	275 45.4	S 1 11.8			
	8	14 25.1	300 21.3	N 22 37.6	N 20	4 41	5 20	18 38	19 17	Alphard	217 54.9	S 8 43.8			
	9	29 27.6	315 21.2	N 22 37.8	N 15	4 52	5 29	18 28	19 6	Alpheratz	357 42.2	N 29 10.4			
	10	44 30.1	330 21.1	N 22 38.1	N 14	4 54	5 31	18 26	19 4	Altair	62 6.8	N 8 54.6			
	11	59 32.5	345 21.0	N 22 38.4	N 13	4 56	5 33	18 25	19 2	Antares	112 24.2	S 26 27.8			
	12	74 35.0	0 20.9	N 22 38.6	N 12	4 58	5 35	18 23	19 0	Arcturus	145 54.0	N 19 6.8			
	13	89 37.5	15 20.7	N 22 38.9	N 11	5 0	5 36	18 21	18 58	Atria	107 24.2	S 69 3.1			
	14	104 39.9	30 20.6	N 22 39.1	N 10	5 2	5 38	18 19	18 56	Avior	234 17.8	S 59 33.9			
	15	119 42.4	45 20.5	N 22 39.4	N 9	5 4	5 40	18 18	18 54	Bellatrix	278 30.9	N 6 21.6			
	16	134 44.9	60 20.4	N 22 39.6	N 8	5 5	5 42	18 16	18 52	Betelgeuse	271 0.2	N 7 24.3			
	17	149 47.3	75 20.3	N 22 39.9	N 7	5 7	5 43	18 14	18 50	Canopus	263 56.1	S 52 42.6			
	18	164 49.8	90 20.2	N 22 40.2	N 6	5 9	5 45	18 12	18 48	Capella	280 33.0	N 46 0.7			
	19	179 52.3	105 20.1	N 22 40.4	N 5	5 11	5 47	18 11	18 47	Deneb	49 30.2	N 45 20.1			
	20	194 54.7	120 19.9	N 22 40.7	N 4	5 13	5 48	18 9	18 45	Denebola	182 32.1	N 14 29.2			
	21	209 57.2	135 19.8	N 22 40.9	N 3	5 14	5 50	18 7	18 43	Dubhe	193 50.2	N 61 40.3			
22	224 59.6	150 19.7	N 22 41.2	N 2	5 16	5 52	18 6	18 41	Elnath	278 11.3	N 28 37.0				
23	240 2.1	165 19.6	N 22 41.4	N 1	5 18	5 53	18 4	18 40	Eltanin	90 45.0	N 51 29.3				
7	0	255 4.6	180 19.5	N 22 41.7	S 1	5 21	5 57	18 1	18 36	Enif	33 45.7	N 9 56.8			
	1	270 7.0	195 19.4	N 22 41.9	S 2	5 23	5 59	17 59	18 34	Formalhaut	15 22.6	S 29 32.2			
	2	285 9.5	210 19.3	N 22 42.2	S 3	5 25	6 0	17 57	18 33	Gacrux	171 59.1	S 57 12.2			
	3	300 12.0	225 19.1	N 22 42.4	S 4	5 26	6 2	17 56	18 31	Hadar	148 45.3	S 60 26.9			
	4	315 14.4	240 19.0	N 22 42.7	S 5	5 28	6 4	17 54	18 29	Hamal	327 59.5	N 23 31.9			
	5	330 16.9	255 18.9	N 22 42.9	S 6	5 30	6 5	17 52	18 28	Kaus Aust	83 41.6	S 34 22.3			
	6	345 19.4	270 18.8	N 22 43.2	S 7	5 31	6 7	17 51	18 26	Kochab	137 19.2	N 74 5.8			
	7	0 21.8	285 18.7	N 22 43.4	S 8	5 33	6 9	17 49	18 25	Markab	13 37.0	N 15 17.3			
	8	15 24.3	300 18.6	N 22 43.6	S 9	5 35	6 11	17 47	18 23	Menkent	148 5.5	S 36 26.7			
	9	30 26.7	315 18.5	N 22 43.9	S 10	5 36	6 12	17 45	18 21	Miaplacidu	221 39.6	S 69 47.3			
	10	45 29.2	330 18.3	N 22 44.1	S 11	5 38	6 14	17 44	18 20	Mirfak	308 38.8	N 49 54.6			
	11	60 31.7	345 18.2	N 22 44.4	S 12	5 39	6 15	17 42	18 18	Nunki	75 56.3	S 26 16.4			
	12	75 34.1	0 18.1	N 22 44.6	S 13	5 41	6 17	17 40	18 16	Peacock	53 16.8	S 56 40.7			
	13	90 36.6	15 18.0	N 22 44.9	S 14	5 43	6 19	17 38	18 15	Pollux	243 26.3	N 27 59.2			
	14	105 39.1	30 17.9	N 22 45.1	S 15	5 44	6 21	17 37	18 13	Procyon	244 58.4	N 5 11.2			
	15	120 41.5	45 17.8	N 22 45.3	S 20	5 52	6 30	17 27	18 5	Rasalhague	96 4.9	N 12 33.2			
	16	135 44.0	60 17.6	N 22 45.6	S 25	6 1	6 40	17 18	17 57	Regulus	207 42.1	N 11 53.4			
	17	150 46.5	75 17.5	N 22 45.8	S 30	6 9	6 50	17 7	17 48	Rigel	281 11.1	S 8 11.3			
	18	165 48.9	90 17.4	N 22 46.1	S 35	6 18	7 6	16 55	17 39	Rigel Kent	139 47.3	S 60 54.2			
	19	180 51.4	105 17.3	N 22 46.3	S 40	6 29	7 20	16 41	17 29	Schedar	349 39.1	N 56 37.0			
	20	195 53.9	120 17.2	N 22 46.5	S 45	6 40	7 36	16 25	17 17	Shaula	96 19.7	S 37 6.7			
	21	210 56.3	135 17.1	N 22 46.8	S 50	6 53	7 56	16 5	17 4	Sirius	258 32.7	S 16 44.2			
	22	225 58.8	150 16.9	N 22 47.0	S 55	7 13	8 22	15 39	16 48	Spica	158 29.6	S 11 14.5			
23	241 1.2	165 16.8	N 22 47.2	S 60	7 34	8 59	15 2	16 28	Vega	80 37.7	N 38 47.9				
Día	Sol						Luna								
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase						
6	m s	m s		h m											
7	1 29	1 24	0.3	11 59		18.4	87								
	1 18	1 13	0.3	11 59		19.5	78								

Tabla G. Lunes 8 de junio – martes 9 de junio de 2015.

Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
	h	° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m	h m	h m		° / ' / "	° / ' / "	
8	0	256 3.7	180 16.7	N 22 47.5	N 60	—	2 40	21 19	—	—	—	Achernar	335 26.3	S 57 9.4	
	1	271 6.2	195 16.6	N 22 47.7	N 55	1 43	3 23	20 36	22 16	20 36	22 16	Acrux	173 7.4	S 63 11.4	
	2	286 8.6	210 16.5	N 22 47.9	N 50	2 39	3 52	20 7	21 20	20 7	21 20	Adhara	255 11.8	S 28 59.9	
	3	301 11.1	225 16.4	N 22 48.2	N 45	3 13	4 14	19 45	20 46	4 14	19 45	Aldebaran	290 48.2	N 16 32.2	
	4	316 13.6	240 16.2	N 22 48.4	N 40	3 38	4 31	19 27	20 20	4 31	19 27	Alioth	166 19.4	N 55 52.8	
	5	331 16.0	255 16.1	N 22 48.6	N 35	3 58	4 46	19 13	20 0	4 46	19 13	Alkaid	152 57.6	N 49 14.4	
	6	346 18.5	270 16.0	N 22 48.9	N 30	4 15	4 58	19 0	19 44	4 58	19 0	Alnair	27 42.0	S 46 52.8	
	7	1 21.0	285 15.9	N 22 49.1	N 25	4 29	5 10	18 49	19 30	5 10	18 49	Alnilam	275 45.4	S 1 11.8	
	8	16 23.4	300 15.8	N 22 49.3	N 20	4 41	5 20	18 38	19 17	5 20	18 38	Alphard	217 54.9	S 8 43.8	
	9	31 25.9	315 15.6	N 22 49.5	N 15	4 52	5 29	18 29	19 6	5 29	18 29	Alpheratz	357 42.2	N 29 10.4	
	10	46 28.4	330 15.5	N 22 49.8	N 14	4 54	5 31	18 27	19 4	5 31	18 27	Altair	62 6.8	N 8 54.6	
	11	61 30.8	345 15.4	N 22 50.0	N 13	4 56	5 33	18 25	19 2	5 33	18 25	Antares	112 24.2	S 26 27.8	
	12	76 33.3	0 15.3	N 22 50.2	N 12	4 58	5 35	18 23	19 0	5 35	18 23	Arcturus	145 54.0	N 19 6.8	
	13	91 35.7	15 15.2	N 22 50.5	N 11	5 0	5 37	18 22	18 58	5 0	5 37	Atria	107 24.2	S 69 3.1	
	14	106 38.2	30 15.0	N 22 50.7	N 10	5 2	5 38	18 20	18 56	5 2	5 38	Avior	234 17.8	S 59 33.9	
	15	121 40.7	45 14.9	N 22 50.9	N 9	5 4	5 40	18 18	18 54	5 4	5 40	Bellatrix	278 30.9	N 6 21.6	
	16	136 43.1	60 14.8	N 22 51.1	N 8	5 6	5 42	18 16	18 53	5 6	5 42	Betelgeuse	271 0.2	N 7 24.3	
	17	151 45.6	75 14.7	N 22 51.3	N 7	5 8	5 44	18 15	18 51	5 8	5 44	Canopus	263 56.1	S 52 42.5	
	18	166 48.1	90 14.6	N 22 51.6	N 6	5 9	5 45	18 13	18 49	5 9	5 45	Capella	280 33.0	N 46 0.7	
	19	181 50.5	105 14.5	N 22 51.8	N 5	5 11	5 47	18 11	18 47	5 11	5 47	Deneb	49 30.2	N 45 20.1	
	20	196 53.0	120 14.3	N 22 52.0	N 4	5 13	5 49	18 9	18 45	5 13	5 49	Denebola	182 32.1	N 14 29.2	
	21	211 55.5	135 14.2	N 22 52.2	N 3	5 15	5 50	18 8	18 44	5 15	5 50	Dubhe	193 50.2	N 61 40.3	
	22	226 57.9	150 14.1	N 22 52.4	N 2	5 16	5 52	18 6	18 42	5 16	5 52	Elnath	278 11.3	N 28 37.0	
23	242 0.4	165 14.0	N 22 52.7	N 1	5 18	5 54	18 4	18 40	5 18	5 54	Eltanin	90 45.0	N 51 29.4		
9	0	257 2.8	180 13.8	N 22 52.9	S 1	5 22	5 57	18 1	5 22	5 57	18 1	Enif	33 45.7	N 9 56.8	
	1	272 5.3	195 13.7	N 22 53.1	S 2	5 23	5 59	17 59	5 23	5 59	17 59	Formalhaut	15 22.6	S 29 32.2	
	2	287 7.8	210 13.6	N 22 53.3	S 3	5 25	6 1	17 58	5 25	6 1	17 58	Gacrux	171 59.1	S 57 12.2	
	3	302 10.2	225 13.5	N 22 53.5	S 4	5 27	6 2	17 56	5 27	6 2	17 56	Hadar	148 45.4	S 60 27.0	
	4	317 12.7	240 13.4	N 22 53.7	S 5	5 28	6 4	17 54	18 30	5 28	6 4	17 54	Hamal	327 59.5	N 23 31.9
	5	332 15.2	255 13.2	N 22 54.0	S 6	5 30	6 6	17 53	18 28	5 30	6 6	17 53	Kaus Aust	83 41.6	S 34 22.3
	6	347 17.6	270 13.1	N 22 54.2	S 7	5 32	6 7	17 51	18 27	5 32	6 7	17 51	Kochab	137 19.3	N 74 5.8
	7	2 20.1	285 13.0	N 22 54.4	S 8	5 33	6 9	17 49	18 25	5 33	6 9	17 49	Markab	13 37.0	N 15 17.3
	8	17 22.6	300 12.9	N 22 54.6	S 9	5 35	6 11	17 47	18 23	5 35	6 11	17 47	Menkent	148 5.5	S 36 26.7
	9	32 25.0	315 12.8	N 22 54.8	S 10	5 37	6 13	17 46	18 22	5 37	6 13	17 46	Miaplacidu	221 39.6	S 69 47.3
	10	47 27.5	330 12.6	N 22 55.0	S 11	5 38	6 14	17 44	18 20	5 38	6 14	17 44	Mirfak	308 38.8	N 49 54.6
	11	62 30.0	345 12.5	N 22 55.2	S 12	5 40	6 16	17 42	18 18	5 40	6 16	17 42	Nunki	75 56.3	S 26 16.4
	12	77 32.4	0 12.4	N 22 55.4	S 13	5 41	6 18	17 40	18 17	5 41	6 18	17 40	Peacock	53 16.8	S 56 40.7
	13	92 34.9	15 12.3	N 22 55.6	S 14	5 43	6 20	17 39	18 15	5 43	6 20	17 39	Pollux	243 26.3	N 27 59.2
	14	107 37.3	30 12.1	N 22 55.8	S 15	5 45	6 21	17 37	18 13	5 45	6 21	17 37	Procyon	244 58.4	N 5 11.2
	15	122 39.8	45 12.0	N 22 56.1	S 20	5 53	6 31	17 28	18 5	5 53	6 31	17 28	Rasalhague	96 4.9	N 12 33.2
	16	137 42.3	60 11.9	N 22 56.3	S 25	6 1	6 41	17 18	17 57	6 1	6 41	17 18	Regulus	207 42.2	N 11 53.4
	17	152 44.7	75 11.8	N 22 56.5	S 30	6 10	6 55	17 7	17 48	6 10	6 55	17 7	Rigel	281 11.1	S 8 11.3
	18	167 47.2	90 11.7	N 22 56.7	S 35	6 19	7 7	16 55	17 39	6 19	7 7	16 55	Rigel Kent	139 47.3	S 60 54.2
	19	182 49.7	105 11.5	N 22 56.9	S 40	6 30	7 21	16 41	17 28	6 30	7 21	16 41	Schedar	349 39.1	N 56 37.0
	20	197 52.1	120 11.4	N 22 57.1	S 45	6 41	7 38	16 24	17 17	6 41	7 38	16 24	Shaula	96 19.7	S 37 6.7
	21	212 54.6	135 11.3	N 22 57.3	S 50	6 58	7 58	16 4	17 4	6 58	7 58	16 4	Sirius	258 32.7	S 16 44.2
	22	227 57.1	150 11.2	N 22 57.5	S 55	7 15	8 24	15 38	16 47	7 15	8 24	15 38	Spica	158 29.6	S 11 14.5
23	242 59.5	165 11.0	N 22 57.7	S 60	7 35	9 1	15 1	16 26	7 35	9 1	15 1	Vega	80 37.7	N 38 47.9	
Día	Sol				Luna										
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día	Porcentaje de iluminación	Fase								
8	m s	m s		h m											
9	1 7	1 1	0.2	11 59	20.5	68									
	0 56	0 50	0.2	11 59	21.6	57									



Tabla G. Miércoles 10 de junio – jueves 11 de junio de 2015.


Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
10	h	° /	° /	° /	°	h m	h m	h m	h m	h m	h m	h m	° /	° /	° /
	0	258 2.0	180 10.9	N 22 57.9	N 60	—	2 39	21 21	—	Achernar	335 26.3	S 57 9.3			
	1	273 4.5	195 10.8	N 22 58.1	N 55	1 41	3 22	20 38	22 19	Acruz	173 7.4	S 63 11.4			
	2	288 6.9	210 10.7	N 22 58.3	N 50	2 37	3 51	20 8	21 22	Adhara	255 11.8	S 28 59.9			
	3	303 9.4	225 10.6	N 22 58.5	N 45	3 12	4 13	19 46	20 47	Aldebaran	290 48.2	N 16 32.2			
	4	318 11.8	240 10.4	N 22 58.7	N 40	3 38	4 31	19 28	20 21	Alioth	166 19.5	N 55 52.9			
	5	333 14.3	255 10.3	N 22 58.9	N 35	3 58	4 46	19 14	20 1	Alkaid	152 57.6	N 49 14.5			
	6	348 16.8	270 10.2	N 22 59.1	N 30	4 15	4 58	19 1	19 45	Alnair	27 42.0	S 46 52.8			
	7	3 19.2	285 10.1	N 22 59.3	N 25	4 29	5 10	18 49	19 31	Alnilam	275 45.4	S 1 11.8			
	8	18 21.7	300 9.9	N 22 59.5	N 20	4 41	5 20	18 39	19 18	Alphard	217 54.9	S 8 43.8			
	9	33 24.2	315 9.8	N 22 59.7	N 15	4 52	5 30	18 29	19 7	Alpheratz	357 42.2	N 29 10.4			
	10	48 26.6	330 9.7	N 22 59.8	N 14	4 54	5 31	18 28	19 5	Altair	62 6.8	N 8 54.6			
	11	63 29.1	345 9.6	N 23 0.0	N 13	4 56	5 33	18 26	19 3	Antares	112 24.2	S 26 27.8			
	12	78 31.6	0 9.4	N 23 0.2	N 12	4 58	5 35	18 24	19 1	Arcturus	145 54.0	N 19 6.8			
	13	93 34.0	15 9.3	N 23 0.4	N 11	5 0	5 37	18 22	18 59	Atria	107 24.2	S 69 3.1			
	14	108 36.5	30 9.2	N 23 0.6	N 10	5 2	5 39	18 20	18 57	Avior	234 17.9	S 59 33.9			
	15	123 38.9	45 9.1	N 23 0.8	N 9	5 4	5 40	18 19	18 55	Bellatrix	278 30.9	N 6 21.6			
	16	138 41.4	60 8.9	N 23 1.0	N 8	5 6	5 42	18 17	18 53	Betelgeuse	271 0.2	N 7 24.3			
	17	153 43.9	75 8.8	N 23 1.2	N 7	5 8	5 44	18 15	18 51	Canopus	263 56.1	S 52 42.5			
	18	168 46.3	90 8.7	N 23 1.4	N 6	5 10	5 46	18 13	18 49	Capella	280 33.0	N 46 0.7			
	19	183 48.8	105 8.6	N 23 1.6	N 5	5 11	5 47	18 12	18 48	Deneb	49 30.2	N 45 20.1			
	20	198 51.3	120 8.4	N 23 1.7	N 4	5 13	5 49	18 10	18 46	Denebola	182 32.2	N 14 29.2			
	21	213 53.7	135 8.3	N 23 1.9	N 3	5 15	5 51	18 8	18 44	Dubhe	193 50.2	N 61 40.3			
22	228 56.2	150 8.2	N 23 2.1	N 2	5 17	5 53	18 7	18 42	Elnath	278 11.3	N 28 37.0				
23	243 58.7	165 8.1	N 23 2.3	N 1	5 19	5 54	18 5	18 40	Eltanin	90 45.0	N 51 29.4				
11	0	259 1.1	180 7.9	N 23 2.5	S 1	5 22	5 58	18 1	18 37	Enif	33 45.7	N 9 56.8			
	1	274 3.6	195 7.8	N 23 2.7	S 2	5 24	5 59	18 0	18 35	Formalhaut	15 22.6	S 29 32.2			
	2	289 6.1	210 7.7	N 23 2.8	S 3	5 25	6 1	17 58	18 34	Gacrux	171 59.1	S 57 12.2			
	3	304 8.5	225 7.6	N 23 3.0	S 4	5 27	6 3	17 56	18 32	Hadar	148 45.4	S 60 27.0			
	4	319 11.0	240 7.4	N 23 3.2	S 5	5 29	6 4	17 55	18 30	Hamal	327 59.5	N 23 31.9			
	5	334 13.4	255 7.3	N 23 3.4	S 6	5 30	6 6	17 53	18 29	Kaus Aust	83 41.6	S 34 22.3			
	6	349 15.9	270 7.2	N 23 3.6	S 7	5 32	6 8	17 51	18 27	Kochab	137 19.3	N 74 5.8			
	7	4 18.4	285 7.0	N 23 3.7	S 8	5 34	6 10	17 49	18 25	Markab	13 37.0	N 15 17.3			
	8	19 20.8	300 6.9	N 23 3.9	S 9	5 36	6 12	17 47	18 23	Menkent	148 5.5	S 36 26.7			
	9	34 23.3	315 6.8	N 23 4.1	S 10	5 37	6 13	17 46	18 22	Miaplacidu	221 39.6	S 69 47.3			
	10	49 25.8	330 6.7	N 23 4.3	S 11	5 39	6 15	17 44	18 20	Mirfak	308 38.8	N 49 54.6			
	11	64 28.2	345 6.5	N 23 4.5	S 12	5 40	6 17	17 42	18 19	Nunki	75 56.3	S 26 16.4			
	12	79 30.7	0 6.4	N 23 4.6	S 13	5 42	6 18	17 41	18 17	Peacock	53 16.8	S 56 40.7			
	13	94 33.2	15 6.3	N 23 4.8	S 14	5 44	6 20	17 39	18 15	Pollux	243 26.3	N 27 59.2			
	14	109 35.6	30 6.2	N 23 5.0	S 15	5 45	6 22	17 37	18 14	Procyon	244 58.4	N 5 11.2			
	15	124 38.1	45 6.0	N 23 5.2	S 20	5 54	6 31	17 28	18 5	Rasalhague	96 4.9	N 12 33.2			
	16	139 40.6	60 5.9	N 23 5.3	S 25	6 2	6 41	17 18	17 57	Regulus	207 42.2	N 11 53.4			
	17	154 43.0	75 5.8	N 23 5.5	S 30	6 11	6 56	17 7	17 48	Rigel	281 11.1	S 8 11.3			
	18	169 45.5	90 5.6	N 23 5.7	S 35	6 20	7 8	16 55	17 39	Rigel Kent	139 47.3	S 60 54.2			
	19	184 47.9	105 5.5	N 23 5.8	S 40	6 31	7 22	16 41	17 28	Schedar	349 39.1	N 56 37.0			
	20	199 50.4	120 5.4	N 23 6.0	S 45	6 42	7 39	16 24	17 17	Shaula	96 19.7	S 37 6.7			
	21	214 52.9	135 5.3	N 23 6.2	S 50	7 0	7 59	16 4	17 3	Sirius	258 32.7	S 16 44.2			
	22	229 55.3	150 5.1	N 23 6.3	S 55	7 16	8 26	15 37	16 47	Spica	158 29.6	S 11 14.5			
23	244 57.8	165 5.0	N 23 6.5	S 60	7 37	9 3	14 59	16 26	Vega	80 37.7	N 38 47.9				
Día	Sol				Luna										
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día		Porcentaje de iluminación		Fase						
10	m s	m s		h m											
11	0 44	0 38	0.2	11 59	22.6	46									
	0 32	0 26	0.2	12 0	23.6	34									

Tabla G. Viernes 12 de junio – sábado 13 de junio de 2015.

Día	TU	Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		Aries	Sol							Nombre	SHA	Dec.
		GHA	GHA	Dec.		h m	h m	h m	h m		° / ' / "	° / ' / "
12	h				°							
	0	260 0.3	180 4.9	N 23 6.7	N 60	—	2 37	21 23	—	Achernar	335 26.3	S 57 9.3
	1	275 2.7	195 4.7	N 23 6.8	N 55	1 39	3 21	20 39	22 22	Acrux	173 7.4	S 63 11.4
	2	290 5.2	210 4.6	N 23 7.0	N 50	2 37	3 51	20 9	21 24	Adhara	255 11.8	S 28 59.9
	3	305 7.7	225 4.5	N 23 7.2	N 45	3 12	4 13	19 47	20 48	Aldebaran	290 48.2	N 16 32.2
	4	320 10.1	240 4.4	N 23 7.3	N 40	3 38	4 31	19 29	20 22	Alioth	166 19.5	N 55 52.9
	5	335 12.6	255 4.2	N 23 7.5	N 35	3 58	4 45	19 14	20 2	Alkaid	152 57.6	N 49 14.5
	6	350 15.1	270 4.1	N 23 7.7	N 30	4 14	4 58	19 2	19 45	Alnair	27 42.0	S 46 52.8
	7	5 17.5	285 4.0	N 23 7.8	N 25	4 29	5 10	18 50	19 31	Alnilam	275 45.3	S 1 11.8
	8	20 20.0	300 3.8	N 23 8.0	N 20	4 41	5 20	18 40	19 19	Alphard	217 54.9	S 8 43.8
	9	35 22.4	315 3.7	N 23 8.1	N 15	4 52	5 30	18 30	19 8	Alpheratz	357 42.2	N 29 10.4
	10	50 24.9	330 3.6	N 23 8.3	N 14	4 54	5 32	18 28	19 6	Altair	62 6.8	N 8 54.6
	11	65 27.4	345 3.5	N 23 8.5	N 13	4 56	5 34	18 26	19 4	Antares	112 24.2	S 26 27.8
	12	80 29.8	0 3.3	N 23 8.6	N 12	4 58	5 35	18 25	19 2	Arcturus	145 54.0	N 19 6.8
	13	95 32.3	15 3.2	N 23 8.8	N 11	5 0	5 37	18 23	19 0	Atria	107 24.2	S 69 3.1
	14	110 34.8	30 3.1	N 23 8.9	N 10	5 2	5 39	18 21	18 58	Avior	234 17.9	S 59 33.9
	15	125 37.2	45 2.9	N 23 9.1	N 9	5 4	5 41	18 19	18 56	Bellatrix	278 30.9	N 6 21.6
	16	140 39.7	60 2.8	N 23 9.2	N 8	5 6	5 42	18 17	18 54	Betelgeuse	271 0.2	N 7 24.3
	17	155 42.2	75 2.7	N 23 9.4	N 7	5 8	5 44	18 16	18 52	Canopus	263 56.1	S 52 42.5
	18	170 44.6	90 2.6	N 23 9.6	N 6	5 10	5 46	18 14	18 50	Capella	280 33.0	N 46 0.7
	19	185 47.1	105 2.4	N 23 9.7	N 5	5 12	5 48	18 12	18 48	Deneb	49 30.2	N 45 20.1
	20	200 49.5	120 2.3	N 23 9.9	N 4	5 14	5 49	18 10	18 46	Denebola	182 32.2	N 14 29.2
	21	215 52.0	135 2.2	N 23 10.0	N 3	5 15	5 51	18 9	18 44	Dubhe	193 50.2	N 61 40.3
22	230 54.5	150 2.0	N 23 10.2	N 2	5 17	5 53	18 7	18 43	Elnath	278 11.3	N 28 37.0	
23	245 56.9	165 1.9	N 23 10.3	N 1	5 19	5 55	18 5	18 41	Eltanin	90 45.0	N 51 29.4	
				0	5 21	5 56	18 4	18 39				
13	0	260 59.4	180 1.8	N 23 10.5	S 1	5 22	5 58	18 2	18 37	Enif	33 45.6	N 9 56.8
	1	276 1.9	195 1.6	N 23 10.6	S 2	5 24	6 0	18 0	18 36	Formalhaut	15 22.6	S 29 32.2
	2	291 4.3	210 1.5	N 23 10.8	S 3	5 26	6 1	17 58	18 34	Gacrux	171 59.1	S 57 12.2
	3	306 6.8	225 1.4	N 23 10.9	S 4	5 28	6 3	17 57	18 32	Hadar	148 45.4	S 60 27.0
	4	321 9.3	240 1.3	N 23 11.1	S 5	5 29	6 5	17 55	18 31	Hamal	327 59.5	N 23 31.9
	5	336 11.7	255 1.1	N 23 11.2	S 6	5 31	6 7	17 53	18 29	Kaus Aust	83 41.6	S 34 22.3
	6	351 14.2	270 1.0	N 23 11.3	S 7	5 33	6 8	17 51	18 27	Kochab	137 19.3	N 74 5.8
	7	6 16.7	285 0.9	N 23 11.5	S 8	5 34	6 10	17 50	18 26	Markab	13 36.9	N 15 17.3
	8	21 19.1	300 0.7	N 23 11.6	S 9	5 36	6 12	17 48	18 24	Menkent	148 5.5	S 36 26.7
	9	36 21.6	315 0.6	N 23 11.8	S 10	5 38	6 14	17 46	18 22	Miaplacidu	221 39.7	S 69 47.3
	10	51 24.0	330 0.5	N 23 11.9	S 11	5 39	6 15	17 44	18 21	Mirfak	308 38.8	N 49 54.6
	11	66 26.5	345 0.3	N 23 12.1	S 12	5 41	6 17	17 43	18 19	Nunki	75 56.3	S 26 16.4
	12	81 29.0	0 0.2	N 23 12.2	S 13	5 42	6 19	17 41	18 17	Peacock	53 16.8	S 56 40.7
	13	96 31.4	15 0.1	N 23 12.3	S 14	5 44	6 21	17 39	18 16	Pollux	243 26.3	N 27 59.2
	14	111 33.9	29 59.9	N 23 12.5	S 15	5 46	6 23	17 37	18 14	Procyon	244 58.4	N 5 11.2
	15	126 36.4	44 59.8	N 23 12.6	S 20	5 54	6 32	17 28	18 6	Rasalhague	96 4.9	N 12 33.2
	16	141 38.8	59 59.7	N 23 12.8	S 25	6 3	6 46	17 18	17 57	Regulus	207 42.2	N 11 53.4
	17	156 41.3	74 59.5	N 23 12.9	S 30	6 12	6 57	17 7	17 48	Rigel	281 11.1	S 8 11.3
	18	171 43.8	89 59.4	N 23 13.0	S 35	6 21	7 9	16 55	17 39	Rigel Kent	139 47.3	S 60 54.2
	19	186 46.2	104 59.3	N 23 13.2	S 40	6 31	7 23	16 41	17 28	Schedar	349 39.0	N 56 37.0
	20	201 48.7	119 59.2	N 23 13.3	S 45	6 47	7 40	16 24	17 17	Shaula	96 19.6	S 37 6.7
	21	216 51.2	134 59.0	N 23 13.4	S 50	7 1	8 0	16 3	17 3	Sirius	258 32.7	S 16 44.2
	22	231 53.6	149 58.9	N 23 13.6	S 55	7 17	8 27	15 37	16 46	Spica	158 29.6	S 11 14.5
23	246 56.1	164 58.8	N 23 13.7	S 60	7 39	9 5	14 58	16 25	Vega	80 37.7	N 38 47.9	
		Sol				Luna						
Día		Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día	Porcentaje de iluminación		Fase			
		m s	m s		h m							
12		0 20	0 13	0.2	12 0	24.7	24					
13		0 7	0 1	0.2	12 0	25.7	15					

Tabla G. Domingo 14 de junio – lunes 15 de junio de 2015.


Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
		° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m	h m	h m	° / ' / "	° / ' / "	° / ' / "	
14	0	261 58.5	179 58.6	N 23 13.8	N 60	—	2 37	21 25	—	Achernar	335 26.3	S 57 9.3			
	1	277 1.0	194 58.5	N 23 14.0	N 55	1 37	3 21	20 40	22 24	Acruz	173 7.4	S 63 11.4			
	2	292 3.5	209 58.4	N 23 14.1	N 50	2 36	3 50	20 11	21 25	Adhara	255 11.8	S 28 59.9			
	3	307 5.9	224 58.2	N 23 14.2	N 45	3 12	4 13	19 48	20 49	Aldebaran	290 48.2	N 16 32.2			
	4	322 8.4	239 58.1	N 23 14.4	N 40	3 37	4 31	19 30	20 23	Alioth	166 19.5	N 55 52.9			
	5	337 10.9	254 58.0	N 23 14.5	N 35	3 58	4 46	19 15	20 3	Alkaid	152 57.6	N 49 14.5			
	6	352 13.3	269 57.8	N 23 14.6	N 30	4 15	4 58	19 2	19 46	Alnair	27 42.0	S 46 52.8			
	7	7 15.8	284 57.7	N 23 14.8	N 25	4 29	5 10	18 51	19 32	Alnilam	275 45.3	S 1 11.8			
	8	22 18.3	299 57.6	N 23 14.9	N 20	4 41	5 20	18 40	19 19	Alphard	217 54.9	S 8 43.7			
	9	37 20.7	314 57.4	N 23 15.0	N 15	4 52	5 30	18 31	19 8	Alpheratz	357 42.1	N 29 10.4			
	10	52 23.2	329 57.3	N 23 15.1	N 14	4 55	5 32	18 29	19 6	Altair	62 6.8	N 8 54.6			
	11	67 25.6	344 57.2	N 23 15.3	N 13	4 57	5 34	18 27	19 4	Antares	112 24.2	S 26 27.8			
	12	82 28.1	359 57.0	N 23 15.4	N 12	4 59	5 36	18 25	19 2	Arcturus	145 54.0	N 19 6.8			
	13	97 30.6	14 56.9	N 23 15.5	N 11	5 1	5 37	18 23	19 0	Atria	107 24.2	S 69 3.1			
	14	112 33.0	29 56.8	N 23 15.6	N 10	5 3	5 39	18 21	18 58	Avior	234 17.9	S 59 33.9			
	15	127 35.5	44 56.6	N 23 15.7	N 9	5 5	5 41	18 20	18 56	Bellatrix	278 30.9	N 6 21.6			
	16	142 38.0	59 56.5	N 23 15.9	N 8	5 7	5 43	18 18	18 54	Betelgeuse	271 0.2	N 7 24.3			
	17	157 40.4	74 56.4	N 23 16.0	N 7	5 8	5 45	18 16	18 52	Canopus	263 56.1	S 52 42.5			
	18	172 42.9	89 56.2	N 23 16.1	N 6	5 10	5 46	18 14	18 50	Capella	280 33.0	N 46 0.6			
	19	187 45.4	104 56.1	N 23 16.2	N 5	5 12	5 48	18 13	18 49	Deneb	49 30.2	N 45 20.1			
	20	202 47.8	119 56.0	N 23 16.3	N 4	5 14	5 50	18 11	18 47	Denebola	182 32.2	N 14 29.2			
	21	217 50.3	134 55.8	N 23 16.5	N 3	5 16	5 52	18 9	18 45	Dubhe	193 50.3	N 61 40.3			
	22	232 52.8	149 55.7	N 23 16.6	N 2	5 18	5 53	18 7	18 43	Elnath	278 11.3	N 28 37.0			
23	247 55.2	164 55.6	N 23 16.7	N 1	5 19	5 55	18 6	18 41	Eltanin	90 45.0	N 51 29.4				
15	0	262 57.7	179 55.4	N 23 16.8	S 1	5 21	5 57	18 4	18 40	Enif	33 45.6	N 9 56.8			
	1	278 0.1	194 55.3	N 23 16.9	S 2	5 23	5 58	18 2	18 38	Formalhaut	15 22.6	S 29 32.2			
	2	293 2.6	209 55.2	N 23 17.0	S 3	5 25	6 0	18 0	18 36	Gacrux	171 59.1	S 57 12.2			
	3	308 5.1	224 55.0	N 23 17.2	S 4	5 26	6 2	17 59	18 34	Hadar	148 45.4	S 60 27.0			
	4	323 7.5	239 54.9	N 23 17.3	S 5	5 28	6 4	17 57	18 33	Hamal	327 59.5	N 23 31.9			
	5	338 10.0	254 54.8	N 23 17.4	S 6	5 30	6 5	17 55	18 31	Kaus Aust	83 41.6	S 34 22.3			
	6	353 12.5	269 54.6	N 23 17.5	S 7	5 31	6 7	17 54	18 29	Kochab	137 19.3	N 74 5.9			
	7	8 14.9	284 54.5	N 23 17.6	S 8	5 33	6 9	17 52	18 28	Markab	13 36.9	N 15 17.3			
	8	23 17.4	299 54.4	N 23 17.7	S 9	5 35	6 11	17 50	18 26	Menkent	148 5.5	S 36 26.7			
	9	38 19.9	314 54.2	N 23 17.8	S 10	5 37	6 13	17 48	18 24	Miaplacidu	221 39.7	S 69 47.3			
	10	53 22.3	329 54.1	N 23 17.9	S 11	5 38	6 14	17 47	18 23	Mirfak	308 38.8	N 49 54.6			
	11	68 24.8	344 54.0	N 23 18.0	S 12	5 40	6 16	17 45	18 21	Nunki	75 56.3	S 26 16.4			
	12	83 27.3	359 53.8	N 23 18.1	S 13	5 41	6 18	17 43	18 19	Peacock	53 16.7	S 56 40.7			
	13	98 29.7	14 53.7	N 23 18.3	S 14	5 43	6 19	17 41	18 18	Pollux	243 26.3	N 27 59.2			
	14	113 32.2	29 53.6	N 23 18.4	S 15	5 45	6 21	17 39	18 16	Procyon	244 58.4	N 5 11.2			
	15	128 34.6	44 53.4	N 23 18.5	S 20	5 46	6 23	17 38	18 14	Rasalhague	96 4.9	N 12 33.2			
	16	143 37.1	59 53.3	N 23 18.6	S 25	5 48	6 25	17 36	18 12	Regulus	207 42.2	N 11 53.4			
	17	158 39.6	74 53.2	N 23 18.7	S 30	5 50	6 27	17 34	18 10	Rigel	281 11.1	S 8 11.3			
	18	173 42.0	89 53.0	N 23 18.8	S 35	5 52	6 29	17 32	18 8	Rigel Kent	139 47.3	S 60 54.2			
	19	188 44.5	104 52.9	N 23 18.9	S 40	5 54	6 31	17 30	18 6	Schedar	349 39.0	N 56 37.0			
	20	203 47.0	119 52.7	N 23 19.0	S 45	5 56	6 33	17 28	18 4	Shaula	96 19.6	S 37 6.7			
	21	218 49.4	134 52.6	N 23 19.1	S 50	5 58	6 35	17 26	18 2	Sirius	258 32.7	S 16 44.2			
	22	233 51.9	149 52.5	N 23 19.2	S 55	5 60	6 37	17 24	18 0	Spica	158 29.6	S 11 14.5			
23	248 54.4	164 52.3	N 23 19.3	S 60	5 62	6 39	17 22	17 58	Vega	80 37.7	N 38 48.0				
Día		Sol			Luna										
		Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase					
		m s	m s		h m										
14		0 5	0 12	0.1	12 0		26.8	8							
15		0 18	0 25	0.1	12 0		27.8	3							

Tabla G. Martes 16 de junio – miércoles 17 de junio de 2015.


Día	TU	Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		Aries	Sol							Nombre	SHA	Dec.
		GHA	GHA	Dec.		h m	h m	h m	h m		° / ' / "	° / ' / "
16	h	° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m	Nombre	° / ' / "	° / ' / "
	0	263 56.8	179 52.2	N 23 19.4	N 60	—	2 36	21 26	—	Achernar	335 26.2	S 57 9.3
	1	278 59.3	194 52.1	N 23 19.5	N 55	1 36	3 20	20 41	22 26	Acrux	173 7.5	S 63 11.4
	2	294 1.7	209 51.9	N 23 19.6	N 50	2 36	3 50	20 11	21 26	Adhara	255 11.8	S 28 59.9
	3	309 4.2	224 51.8	N 23 19.7	N 45	3 11	4 13	19 49	20 50	Aldebaran	290 48.2	N 16 32.2
	4	324 6.7	239 51.7	N 23 19.8	N 40	3 37	4 31	19 31	20 24	Alioth	166 19.5	N 55 52.9
	5	339 9.1	254 51.5	N 23 19.9	N 35	3 58	4 46	19 16	20 4	Alkaid	152 57.6	N 49 14.5
	6	354 11.6	269 51.4	N 23 19.9	N 30	4 15	4 59	19 3	19 47	Alnair	27 42.0	S 46 52.8
	7	9 14.1	284 51.3	N 23 20.0	N 25	4 29	5 10	18 51	19 33	Alnilam	275 45.3	S 1 11.8
	8	24 16.5	299 51.1	N 23 20.1	N 20	4 42	5 21	18 41	19 20	Alphard	217 54.9	S 8 43.7
	9	39 19.0	314 51.0	N 23 20.2	N 15	4 53	5 30	18 31	19 9	Alpheratz	357 42.1	N 29 10.4
	10	54 21.5	329 50.9	N 23 20.3	N 14	4 55	5 32	18 29	19 7	Altair	62 6.8	N 8 54.6
	11	69 23.9	344 50.7	N 23 20.4	N 13	4 57	5 34	18 27	19 5	Antares	112 24.2	S 26 27.8
	12	84 26.4	359 50.6	N 23 20.5	N 12	4 59	5 36	18 26	19 3	Arcturus	145 54.0	N 19 6.8
	13	99 28.9	14 50.4	N 23 20.6	N 11	5 1	5 38	18 24	19 1	Atria	107 24.2	S 69 3.2
	14	114 31.3	29 50.3	N 23 20.7	N 10	5 3	5 40	18 22	18 59	Avior	234 17.9	S 59 33.9
	15	129 33.8	44 50.2	N 23 20.8	N 9	5 5	5 41	18 20	18 57	Bellatrix	278 30.9	N 6 21.6
	16	144 36.2	59 50.0	N 23 20.8	N 8	5 7	5 43	18 18	18 55	Betelgeuse	271 0.2	N 7 24.4
	17	159 38.7	74 49.9	N 23 20.9	N 7	5 9	5 45	18 17	18 53	Canopus	263 56.1	S 52 42.5
	18	174 41.2	89 49.8	N 23 21.0	N 6	5 11	5 47	18 15	18 51	Capella	280 32.9	N 46 0.6
	19	189 43.6	104 49.6	N 23 21.1	N 5	5 12	5 48	18 13	18 49	Deneb	49 30.1	N 45 20.1
	20	204 46.1	119 49.5	N 23 21.2	N 4	5 14	5 50	18 11	18 47	Denebola	182 32.2	N 14 29.2
	21	219 48.6	134 49.4	N 23 21.3	N 3	5 16	5 52	18 10	18 45	Dubhe	193 50.3	N 61 40.3
22	234 51.0	149 49.2	N 23 21.4	N 2	5 18	5 54	18 8	18 44	Elnath	278 11.3	N 28 37.0	
23	249 53.5	164 49.1	N 23 21.4	N 1	5 20	5 55	18 6	18 42	Eltanin	90 45.0	N 51 29.4	
17	0	264 56.0	179 49.0	N 23 21.5	S 1	5 23	5 59	18 3	18 38	Enif	33 45.6	N 9 56.8
	1	279 58.4	194 48.8	N 23 21.6	S 2	5 25	6 1	18 1	18 37	Formalhaut	15 22.6	S 29 32.1
	2	295 0.9	209 48.7	N 23 21.7	S 3	5 27	6 2	17 59	18 35	Gacrux	171 59.1	S 57 12.2
	3	310 3.4	224 48.5	N 23 21.8	S 4	5 28	6 4	17 57	18 33	Hadar	148 45.4	S 60 27.0
	4	325 5.8	239 48.4	N 23 21.8	S 5	5 30	6 6	17 56	18 31	Hamal	327 59.5	N 23 31.9
	5	340 8.3	254 48.3	N 23 21.9	S 6	5 32	6 8	17 54	18 30	Kaus Aust	83 41.6	S 34 22.3
	6	355 10.7	269 48.1	N 23 22.0	S 7	5 33	6 9	17 52	18 28	Kochab	137 19.4	N 74 5.9
	7	10 13.2	284 48.0	N 23 22.1	S 8	5 35	6 11	17 50	18 26	Markab	13 36.9	N 15 17.3
	8	25 15.7	299 47.9	N 23 22.1	S 9	5 37	6 13	17 48	18 24	Menkent	148 5.5	S 36 26.7
	9	40 18.1	314 47.7	N 23 22.2	S 10	5 38	6 15	17 47	18 23	Miaplacidu	221 39.7	S 69 47.3
	10	55 20.6	329 47.6	N 23 22.3	S 11	5 40	6 16	17 45	18 21	Mirfak	308 38.8	N 49 54.6
	11	70 23.1	344 47.5	N 23 22.4	S 12	5 42	6 18	17 43	18 20	Nunki	75 56.3	S 26 16.4
	12	85 25.5	359 47.3	N 23 22.4	S 13	5 43	6 24	17 42	18 18	Peacock	53 16.7	S 56 40.7
	13	100 28.0	14 47.2	N 23 22.5	S 14	5 45	6 26	17 40	18 16	Pollux	243 26.3	N 27 59.2
	14	115 30.5	29 47.1	N 23 22.6	S 15	5 47	6 28	17 38	18 15	Procyon	244 58.4	N 5 11.2
	15	130 32.9	44 46.9	N 23 22.7	S 20	5 55	6 37	17 28	18 6	Rasalhague	96 4.9	N 12 33.2
	16	145 35.4	59 46.8	N 23 22.7	S 25	6 4	6 47	17 18	17 58	Regulus	207 42.2	N 11 53.4
	17	160 37.9	74 46.6	N 23 22.8	S 30	6 13	6 58	17 7	17 49	Rigel	281 11.1	S 8 11.3
	18	175 40.3	89 46.5	N 23 22.9	S 35	6 26	7 11	16 55	17 39	Rigel Kent	139 47.4	S 60 54.2
	19	190 42.8	104 46.4	N 23 22.9	S 40	6 37	7 25	16 41	17 29	Schedar	349 39.0	N 56 37.0
	20	205 45.2	119 46.2	N 23 23.0	S 45	6 49	7 42	16 24	17 17	Shaula	96 19.6	S 37 6.7
	21	220 47.7	134 46.1	N 23 23.1	S 50	7 3	8 2	16 3	17 3	Sirius	258 32.7	S 16 44.2
	22	235 50.2	149 46.0	N 23 23.1	S 55	7 19	8 29	15 36	16 46	Spica	158 29.6	S 11 14.5
23	250 52.6	164 45.8	N 23 23.2	S 60	7 41	9 8	14 57	16 24	Vega	80 37.7	N 38 48.0	
		Sol						Luna				
Día		Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase		
		m s	m s		h m							
16		0 31	0 38	0.1	12 1		28.9	0				
17		0 44	0 51	0.1	12 1		0.5	0				

Tabla G. Jueves 18 de junio – viernes 19 de junio de 2015.


Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
18	h	° /	° /	° /	°	h m	h m	h m	h m	h m	h m	h m			
	0	265 55.1	179 45.7	N 23 23.3	N 60	—	2 36	21 27	—	Achernar	335 26.2	S 57 9.3			
	1	280 57.6	194 45.5	N 23 23.3	N 55	1 36	3 20	20 42	22 27	Acrux	173 7.5	S 63 11.4			
	2	296 0.0	209 45.4	N 23 23.4	N 50	2 36	3 50	20 12	21 27	Adhara	255 11.8	S 28 59.9			
	3	311 2.5	224 45.3	N 23 23.4	N 45	3 12	4 13	19 50	20 51	Aldebaran	290 48.2	N 16 32.2			
	4	326 5.0	239 45.1	N 23 23.5	N 40	3 38	4 31	19 32	20 25	Alioth	166 19.5	N 55 52.9			
	5	341 7.4	254 45.0	N 23 23.6	N 35	3 58	4 46	19 16	20 4	Alkaid	152 57.6	N 49 14.5			
	6	356 9.9	269 44.9	N 23 23.6	N 30	4 15	4 59	19 3	19 47	Alnair	27 41.9	S 46 52.8			
	7	11 12.3	284 44.7	N 23 23.7	N 25	4 29	5 11	18 52	19 33	Alnilam	275 45.3	S 1 11.8			
	8	26 14.8	299 44.6	N 23 23.7	N 20	4 42	5 21	18 41	19 21	Alphard	217 54.9	S 8 43.7			
	9	41 17.3	314 44.5	N 23 23.8	N 15	4 53	5 31	18 32	19 9	Alpheratz	357 42.1	N 29 10.4			
	10	56 19.7	329 44.3	N 23 23.9	N 14	4 55	5 33	18 30	19 7	Altair	62 6.7	N 8 54.6			
	11	71 22.2	344 44.2	N 23 23.9	N 13	4 57	5 35	18 28	19 5	Antares	112 24.2	S 26 27.8			
	12	86 24.7	359 44.0	N 23 24.0	N 12	4 59	5 36	18 26	19 3	Arcturus	145 54.0	N 19 6.8			
	13	101 27.1	14 43.9	N 23 24.0	N 11	5 1	5 38	18 24	19 1	Atria	107 24.2	S 69 3.2			
	14	116 29.6	29 43.8	N 23 24.1	N 10	5 3	5 40	18 22	18 59	Avior	234 17.9	S 59 33.9			
	15	131 32.1	44 43.6	N 23 24.1	N 9	5 5	5 42	18 21	18 57	Bellatrix	278 30.9	N 6 21.6			
	16	146 34.5	59 43.5	N 23 24.2	N 8	5 7	5 44	18 19	18 55	Betelgeuse	271 0.2	N 7 24.4			
	17	161 37.0	74 43.4	N 23 24.2	N 7	5 9	5 45	18 17	18 53	Canopus	263 56.1	S 52 42.5			
	18	176 39.5	89 43.2	N 23 24.3	N 6	5 11	5 47	18 15	18 51	Capella	280 32.9	N 46 0.6			
	19	191 41.9	104 43.1	N 23 24.3	N 5	5 13	5 49	18 14	18 50	Deneb	49 30.1	N 45 20.1			
	20	206 44.4	119 43.0	N 23 24.4	N 4	5 15	5 51	18 12	18 48	Denebola	182 32.2	N 14 29.2			
	21	221 46.8	134 42.8	N 23 24.4	N 3	5 17	5 52	18 10	18 46	Dubhe	193 50.3	N 61 40.3			
22	236 49.3	149 42.7	N 23 24.5	N 2	5 18	5 54	18 8	18 44	Elnath	278 11.3	N 28 37.0				
23	251 51.8	164 42.5	N 23 24.5	N 1	5 20	5 56	18 7	18 42	Eltanin	90 45.0	N 51 29.4				
19	0	266 54.2	179 42.4	N 23 24.6	S 1	5 24	5 59	18 3	18 39	Enif	33 45.6	N 9 56.8			
	1	281 56.7	194 42.3	N 23 24.6	S 2	5 25	6 1	18 1	18 37	Formalhaut	15 22.5	S 29 32.1			
	2	296 59.2	209 42.1	N 23 24.7	S 3	5 27	6 3	18 0	18 35	Gacrux	171 59.1	S 57 12.2			
	3	312 1.6	224 42.0	N 23 24.7	S 4	5 29	6 5	17 58	18 34	Hadar	148 45.4	S 60 27.0			
	4	327 4.1	239 41.9	N 23 24.8	S 5	5 31	6 6	17 56	18 32	Hamal	327 59.4	N 23 31.9			
	5	342 6.6	254 41.7	N 23 24.8	S 6	5 32	6 8	17 54	18 30	Kaus Aust	83 41.6	S 34 22.3			
	6	357 9.0	269 41.6	N 23 24.8	S 7	5 34	6 10	17 53	18 29	Kochab	137 19.4	N 74 5.9			
	7	12 11.5	284 41.4	N 23 24.9	S 8	5 36	6 15	17 51	18 27	Markab	13 36.9	N 15 17.3			
	8	27 14.0	299 41.3	N 23 24.9	S 9	5 38	6 17	17 49	18 25	Menkent	148 5.5	S 36 26.7			
	9	42 16.4	314 41.2	N 23 25.0	S 10	5 39	6 19	17 47	18 23	Miaplacidu	221 39.7	S 69 47.3			
	10	57 18.9	329 41.0	N 23 25.0	S 11	5 41	6 21	17 46	18 22	Mirfak	308 38.8	N 49 54.6			
	11	72 21.3	344 40.9	N 23 25.0	S 12	5 42	6 23	17 44	18 20	Nunki	75 56.3	S 26 16.4			
	12	87 23.8	359 40.8	N 23 25.1	S 13	5 44	6 24	17 42	18 18	Peacock	53 16.7	S 56 40.7			
	13	102 26.3	14 40.6	N 23 25.1	S 14	5 46	6 26	17 40	18 17	Pollux	243 26.3	N 27 59.2			
	14	117 28.7	29 40.5	N 23 25.2	S 15	5 47	6 28	17 38	18 15	Procyon	244 58.4	N 5 11.2			
	15	132 31.2	44 40.3	N 23 25.2	S 20	5 56	6 38	17 29	18 7	Rasalhague	96 4.9	N 12 33.2			
	16	147 33.7	59 40.2	N 23 25.2	S 25	6 4	6 48	17 19	17 58	Regulus	207 42.2	N 11 53.4			
	17	162 36.1	74 40.1	N 23 25.3	S 30	6 17	6 59	17 8	17 49	Rigel	281 11.1	S 8 11.2			
	18	177 38.6	89 39.9	N 23 25.3	S 35	6 27	7 11	16 55	17 39	Rigel Kent	139 47.4	S 60 54.2			
	19	192 41.1	104 39.8	N 23 25.3	S 40	6 37	7 25	16 41	17 29	Schedar	349 39.0	N 56 37.0			
	20	207 43.5	119 39.7	N 23 25.4	S 45	6 49	7 42	16 24	17 17	Shaula	96 19.6	S 37 6.7			
	21	222 46.0	134 39.5	N 23 25.4	S 50	7 3	8 3	16 3	17 3	Sirius	258 32.7	S 16 44.2			
	22	237 48.4	149 39.4	N 23 25.4	S 55	7 20	8 30	15 36	16 46	Spica	158 29.6	S 11 14.5			
23	252 50.9	164 39.3	N 23 25.5	S 60	7 42	9 9	14 57	16 25	Vega	80 37.7	N 38 48.0				
Día	Sol						Luna								
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase						
18	m s	m s		h m											
19	0 57	1 4	0.1	12 1		1.5	2								
	1 10	1 17	0.0	12 1		2.5	6								

Tabla G. Sábado 20 de junio – domingo 21 de junio de 2015.


Día	TU	Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		Aries	Sol							Nombre	SHA	Dec.
		GHA	GHA	Dec.	Lat.	h m	h m	h m	h m		SHA	Dec.
		° / ' / "	° / ' / "	° / ' / "	°						° / ' / "	° / ' / "
20	h				°	h m	h m	h m	h m			
	0	267 53.4	179 39.1	N 23 25.5	N 60	—	2 36	21 27	—	Achernar	335 26.2	S 57 9.3
	1	282 55.8	194 39.0	N 23 25.5	N 55	1 36	3 21	20 43	22 27	Acruz	173 7.5	S 63 11.4
	2	297 58.3	209 38.8	N 23 25.5	N 50	2 36	3 51	20 13	21 27	Adhara	255 11.8	S 28 59.8
	3	313 0.8	224 38.7	N 23 25.6	N 45	3 12	4 13	19 50	20 51	Aldebaran	290 48.1	N 16 32.2
	4	328 3.2	239 38.6	N 23 25.6	N 40	3 38	4 31	19 32	20 25	Alioth	166 19.5	N 55 52.9
	5	343 5.7	254 38.4	N 23 25.6	N 35	3 58	4 46	19 17	20 5	Alkaid	152 57.6	N 49 14.5
	6	358 8.2	269 38.3	N 23 25.6	N 30	4 15	4 59	19 4	19 48	Alnair	27 41.9	S 46 52.8
	7	13 10.6	284 38.2	N 23 25.7	N 25	4 30	5 11	18 52	19 34	Alnilam	275 45.3	S 1 11.8
	8	28 13.1	299 38.0	N 23 25.7	N 20	4 42	5 21	18 42	19 21	Alphard	217 54.9	S 8 43.7
	9	43 15.6	314 37.9	N 23 25.7	N 15	4 54	5 31	18 32	19 10	Alpheratz	357 42.1	N 29 10.4
	10	58 18.0	329 37.7	N 23 25.7	N 14	4 56	5 33	18 30	19 8	Altair	62 6.7	N 8 54.6
	11	73 20.5	344 37.6	N 23 25.8	N 13	4 58	5 35	18 28	19 6	Antares	112 24.2	S 26 27.8
	12	88 22.9	359 37.5	N 23 25.8	N 12	5 0	5 37	18 26	19 4	Arcturus	145 54.0	N 19 6.8
	13	103 25.4	14 37.3	N 23 25.8	N 11	5 2	5 39	18 25	19 1	Atria	107 24.2	S 69 3.2
	14	118 27.9	29 37.2	N 23 25.8	N 10	5 4	5 40	18 23	19 0	Avior	234 17.9	S 59 33.9
	15	133 30.3	44 37.1	N 23 25.8	N 9	5 6	5 42	18 21	18 58	Bellatrix	278 30.9	N 6 21.6
	16	148 32.8	59 36.9	N 23 25.9	N 8	5 8	5 44	18 19	18 56	Betelgeuse	271 0.2	N 7 24.4
	17	163 35.3	74 36.8	N 23 25.9	N 7	5 10	5 46	18 17	18 54	Canopus	263 56.1	S 52 42.5
	18	178 37.7	89 36.6	N 23 25.9	N 6	5 11	5 48	18 16	18 52	Capella	280 32.9	N 46 0.6
	19	193 40.2	104 36.5	N 23 25.9	N 5	5 13	5 49	18 14	18 50	Deneb	49 30.1	N 45 20.1
	20	208 42.7	119 36.4	N 23 25.9	N 4	5 15	5 51	18 12	18 48	Denebola	182 32.2	N 14 29.2
	21	223 45.1	134 36.2	N 23 25.9	N 3	5 17	5 53	18 10	18 46	Dubhe	193 50.3	N 61 40.3
22	238 47.6	149 36.1	N 23 25.9	N 2	5 19	5 55	18 9	18 45	Elnath	278 11.3	N 28 37.0	
23	253 50.1	164 36.0	N 23 26.0	N 1	5 21	5 56	18 7	18 43	Eltanin	90 44.9	N 51 29.4	
					0	5 22	5 58	18 5	18 41			
21	0	268 52.5	179 35.8	N 23 26.0	S 1	5 24	6 0	18 4	18 39	Enif	33 45.6	N 9 56.8
	1	283 55.0	194 35.7	N 23 26.0	S 2	5 26	6 2	18 2	18 37	Formalhaut	15 22.5	S 29 32.1
	2	298 57.4	209 35.6	N 23 26.0	S 3	5 28	6 3	18 0	18 36	Gacrux	171 59.1	S 57 12.2
	3	313 59.9	224 35.4	N 23 26.0	S 4	5 29	6 9	17 58	18 34	Hadar	148 45.4	S 60 27.0
	4	329 2.4	239 35.3	N 23 26.0	S 5	5 31	6 11	17 57	18 32	Hamal	327 59.4	N 23 31.9
	5	344 4.8	254 35.1	N 23 26.0	S 6	5 33	6 12	17 55	18 31	Kaus Aust	83 41.6	S 34 22.3
	6	359 7.3	269 35.0	N 23 26.0	S 7	5 34	6 14	17 53	18 29	Kochab	137 19.4	N 74 5.9
	7	14 9.8	284 34.9	N 23 26.0	S 8	5 36	6 16	17 51	18 27	Markab	13 36.9	N 15 17.3
	8	29 12.2	299 34.7	N 23 26.0	S 9	5 38	6 18	17 49	18 25	Menkent	148 5.5	S 36 26.7
	9	44 14.7	314 34.6	N 23 26.1	S 10	5 39	6 19	17 48	18 24	Miaplacidu	221 39.7	S 69 47.3
	10	59 17.2	329 34.5	N 23 26.1	S 11	5 41	6 21	17 46	18 22	Mirfak	308 38.7	N 49 54.6
	11	74 19.6	344 34.3	N 23 26.1	S 12	5 43	6 23	17 44	18 21	Nunki	75 56.3	S 26 16.4
	12	89 22.1	359 34.2	N 23 26.1	S 13	5 44	6 25	17 42	18 19	Peacock	53 16.7	S 56 40.7
	13	104 24.5	14 34.0	N 23 26.1	S 14	5 46	6 27	17 41	18 17	Pollux	243 26.3	N 27 59.2
	14	119 27.0	29 33.9	N 23 26.1	S 15	5 48	6 29	17 39	18 16	Procyon	244 58.4	N 5 11.2
	15	134 29.5	44 33.8	N 23 26.1	S 20	5 56	6 38	17 29	18 7	Rasalhague	96 4.9	N 12 33.2
	16	149 31.9	59 33.6	N 23 26.1	S 25	6 9	6 48	17 19	17 58	Regulus	207 42.2	N 11 53.4
	17	164 34.4	74 33.5	N 23 26.1	S 30	6 18	6 59	17 8	17 49	Rigel	281 11.1	S 8 11.2
	18	179 36.9	89 33.4	N 23 26.1	S 35	6 27	7 12	16 56	17 40	Rigel Kent	139 47.4	S 60 54.2
	19	194 39.3	104 33.2	N 23 26.1	S 40	6 38	7 26	16 41	17 29	Schedar	349 38.9	N 56 37.0
	20	209 41.8	119 33.1	N 23 26.1	S 45	6 50	7 43	16 24	17 17	Shaula	96 19.6	S 37 6.7
	21	224 44.3	134 33.0	N 23 26.1	S 50	7 4	8 4	16 4	17 3	Sirius	258 32.7	S 16 44.2
	22	239 46.7	149 32.8	N 23 26.1	S 55	7 21	8 31	15 36	16 47	Spica	158 29.6	S 11 14.5
23	254 49.2	164 32.7	N 23 26.1	S 60	7 42	9 10	14 57	16 25	Vega	80 37.6	N 38 48.0	
		Sol			Luna							
Día	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día	Porcentaje de iluminación		Fase				
	m s	m s		h m								
20	1 23	1 30	0.0	12 2	3.5	12						
21	1 37	1 43	0.0	12 2	4.4	19						

Tabla G. Lunes 22 de junio – martes 23 de junio de 2015.


Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
22	h	° /	° /	° /	°	h m	h m	h m	h m	h m	h m	h m			
	0	269 51.7	179 32.5	N 23 26.1	N 60	—	2 36	21 28	—	Achernar	335 26.2	S 57 9.3			
	1	284 54.1	194 32.4	N 23 26.0	N 55	1 36	3 21	20 43	22 27	Acrux	173 7.5	S 63 11.4			
	2	299 56.6	209 32.3	N 23 26.0	N 50	2 36	3 51	20 13	21 28	Adhara	255 11.8	S 28 59.8			
	3	314 59.0	224 32.1	N 23 26.0	N 45	3 12	4 14	19 50	20 52	Aldebaran	290 48.1	N 16 32.2			
	4	330 1.5	239 32.0	N 23 26.0	N 40	3 38	4 32	19 32	20 26	Alioth	166 19.5	N 55 52.9			
	5	345 4.0	254 31.9	N 23 26.0	N 35	3 59	4 47	19 17	20 5	Alkaid	152 57.6	N 49 14.5			
	6	0 6.4	269 31.7	N 23 26.0	N 30	4 16	5 0	19 4	19 48	Alnair	27 41.9	S 46 52.8			
	7	15 8.9	284 31.6	N 23 26.0	N 25	4 30	5 11	18 53	19 34	Alnilam	275 45.3	S 1 11.7			
	8	30 11.4	299 31.5	N 23 26.0	N 20	4 43	5 22	18 42	19 21	Alphard	217 55.0	S 8 43.7			
	9	45 13.8	314 31.3	N 23 26.0	N 15	4 54	5 32	18 32	19 10	Alpheratz	357 42.1	N 29 10.4			
	10	60 16.3	329 31.2	N 23 26.0	N 14	4 56	5 34	18 31	19 8	Altair	62 6.7	N 8 54.6			
	11	75 18.8	344 31.0	N 23 26.0	N 13	4 58	5 35	18 29	19 6	Antares	112 24.2	S 26 27.8			
	12	90 21.2	359 30.9	N 23 25.9	N 12	5 0	5 37	18 27	19 4	Arcturus	145 54.0	N 19 6.8			
	13	105 23.7	14 30.8	N 23 25.9	N 11	5 2	5 39	18 25	19 2	Atria	107 24.2	S 69 3.2			
	14	120 26.2	29 30.6	N 23 25.9	N 10	5 4	5 41	18 23	19 0	Avior	234 17.9	S 59 33.9			
	15	135 28.6	44 30.5	N 23 25.9	N 9	5 6	5 43	18 21	18 58	Bellatrix	278 30.9	N 6 21.6			
	16	150 31.1	59 30.4	N 23 25.9	N 8	5 8	5 44	18 20	18 56	Betelgeuse	271 0.2	N 7 24.4			
	17	165 33.5	74 30.2	N 23 25.9	N 7	5 10	5 46	18 18	18 54	Canopus	263 56.1	S 52 42.5			
	18	180 36.0	89 30.1	N 23 25.8	N 6	5 12	5 48	18 16	18 52	Capella	280 32.9	N 46 0.6			
	19	195 38.5	104 30.0	N 23 25.8	N 5	5 14	5 50	18 14	18 50	Deneb	49 30.1	N 45 20.2			
	20	210 40.9	119 29.8	N 23 25.8	N 4	5 16	5 52	18 13	18 49	Denebola	182 32.2	N 14 29.2			
	21	225 43.4	134 29.7	N 23 25.8	N 3	5 17	5 53	18 11	18 47	Dubhe	193 50.3	N 61 40.3			
22	240 45.9	149 29.6	N 23 25.8	N 2	5 19	5 55	18 9	18 45	Elnath	278 11.3	N 28 37.0				
23	255 48.3	164 29.4	N 23 25.7	N 1	5 21	6 1	18 7	18 43	Eltanin	90 44.9	N 51 29.4				
23	0	270 50.8	179 29.3	N 23 25.7	S 1	5 24	6 4	18 40	Enif	33 45.6	N 9 56.8				
	1	285 53.3	194 29.1	N 23 25.7	S 2	5 26	6 6	18 38	Formalhaut	15 22.5	S 29 32.1				
	2	300 55.7	209 29.0	N 23 25.7	S 3	5 28	6 8	18 0	Gacrux	171 59.2	S 57 12.2				
	3	315 58.2	224 28.9	N 23 25.7	S 4	5 30	6 9	17 59	Hadar	148 45.4	S 60 27.0				
	4	331 0.6	239 28.7	N 23 25.6	S 5	5 31	6 11	17 57	18 33	Hamal	327 59.4	N 23 31.9			
	5	346 3.1	254 28.6	N 23 25.6	S 6	5 33	6 13	17 55	18 31	Kaus Aust	83 41.6	S 34 22.3			
	6	1 5.6	269 28.5	N 23 25.6	S 7	5 35	6 15	17 54	18 29	Kochab	137 19.4	N 74 5.9			
	7	16 8.0	284 28.3	N 23 25.5	S 8	5 36	6 16	17 52	18 28	Markab	13 36.9	N 15 17.3			
	8	31 10.5	299 28.2	N 23 25.5	S 9	5 38	6 18	17 50	18 26	Menkent	148 5.5	S 36 26.7			
	9	46 13.0	314 28.1	N 23 25.5	S 10	5 40	6 20	17 48	18 24	Miaplacidu	221 39.8	S 69 47.2			
	10	61 15.4	329 27.9	N 23 25.5	S 11	5 41	6 22	17 46	18 23	Mirfak	308 38.7	N 49 54.6			
	11	76 17.9	344 27.8	N 23 25.4	S 12	5 43	6 23	17 45	18 21	Nunki	75 56.3	S 26 16.4			
	12	91 20.4	359 27.7	N 23 25.4	S 13	5 45	6 25	17 43	18 19	Peacock	53 16.7	S 56 40.7			
	13	106 22.8	14 27.5	N 23 25.4	S 14	5 46	6 27	17 41	18 18	Pollux	243 26.3	N 27 59.2			
	14	121 25.3	29 27.4	N 23 25.3	S 15	5 48	6 29	17 39	18 16	Procyon	244 58.4	N 5 11.2			
	15	136 27.8	44 27.3	N 23 25.3	S 20	6 1	6 38	17 30	18 8	Rasalhague	96 4.9	N 12 33.2			
	16	151 30.2	59 27.1	N 23 25.3	S 25	6 9	6 49	17 19	17 59	Regulus	207 42.2	N 11 53.4			
	17	166 32.7	74 27.0	N 23 25.2	S 30	6 18	7 0	17 8	17 50	Rigel	281 11.1	S 8 11.2			
	18	181 35.1	89 26.8	N 23 25.2	S 35	6 28	7 12	16 56	17 40	Rigel Kent	139 47.4	S 60 54.2			
	19	196 37.6	104 26.7	N 23 25.2	S 40	6 38	7 26	16 42	17 30	Schedar	349 38.9	N 56 37.0			
	20	211 40.1	119 26.6	N 23 25.1	S 45	6 50	7 43	16 25	17 18	Shaula	96 19.6	S 37 6.7			
	21	226 42.5	134 26.4	N 23 25.1	S 50	7 4	8 4	16 4	17 4	Sirius	258 32.7	S 16 44.2			
	22	241 45.0	149 26.3	N 23 25.1	S 55	7 21	8 31	15 37	16 47	Spica	158 29.7	S 11 14.5			
23	256 47.5	164 26.2	N 23 25.0	S 60	7 43	9 10	14 58	16 25	Vega	80 37.6	N 38 48.0				
Día	Sol						Luna								
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase						
22	m s	m s		h m											
23	1 50	1 56	0.0	12 2		5.3	27								
	2 3	2 9	0.0	12 2		6.1	36								

Tabla G. Miércoles 24 de junio – jueves 25 de junio de 2015.


Día	TU	Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		Aries	Sol							Nombre	SHA	Dec.
		GHA	GHA	Dec.	Lat.	h m	h m	h m	h m		SHA	Dec.
		° / ' / "	° / ' / "	° / ' / "	°						° / ' / "	° / ' / "
24	h				°	h m	h m	h m	h m			
	0	271 49.9	179 26.0	N 23 25.0	N 60	—	2 37	21 27	—	Achernar	335 26.2	S 57 9.3
	1	286 52.4	194 25.9	N 23 24.9	N 55	1 37	3 22	20 43	22 27	Acrux	173 7.5	S 63 11.4
	2	301 54.9	209 25.8	N 23 24.9	N 50	2 37	3 52	20 13	21 28	Adhara	255 11.8	S 28 59.8
	3	316 57.3	224 25.6	N 23 24.9	N 45	3 13	4 14	19 51	20 52	Aldebaran	290 48.1	N 16 32.2
	4	331 59.8	239 25.5	N 23 24.8	N 40	3 39	4 32	19 33	20 26	Alioth	166 19.6	N 55 52.9
	5	347 2.3	254 25.4	N 23 24.8	N 35	3 59	4 47	19 18	20 5	Alkaid	152 57.6	N 49 14.5
	6	2 4.7	269 25.2	N 23 24.7	N 30	4 16	5 0	19 5	19 49	Alnair	27 41.9	S 46 52.8
	7	17 7.2	284 25.1	N 23 24.7	N 25	4 31	5 12	18 53	19 34	Alnilam	275 45.3	S 1 11.7
	8	32 9.6	299 25.0	N 23 24.6	N 20	4 43	5 22	18 43	19 22	Alphard	217 55.0	S 8 43.7
	9	47 12.1	314 24.8	N 23 24.6	N 15	4 54	5 32	18 33	19 11	Alpheratz	357 42.1	N 29 10.4
	10	62 14.6	329 24.7	N 23 24.5	N 14	4 57	5 34	18 31	19 8	Altair	62 6.7	N 8 54.6
	11	77 17.0	344 24.6	N 23 24.5	N 13	4 59	5 36	18 29	19 6	Antares	112 24.2	S 26 27.8
	12	92 19.5	359 24.4	N 23 24.4	N 12	5 1	5 38	18 27	19 4	Arcturus	145 54.0	N 19 6.8
	13	107 22.0	14 24.3	N 23 24.4	N 11	5 3	5 40	18 25	19 2	Atria	107 24.2	S 69 3.2
	14	122 24.4	29 24.2	N 23 24.3	N 10	5 5	5 41	18 24	19 0	Avior	234 17.9	S 59 33.9
	15	137 26.9	44 24.0	N 23 24.3	N 9	5 7	5 43	18 22	18 58	Bellatrix	278 30.9	N 6 21.6
	16	152 29.4	59 23.9	N 23 24.2	N 8	5 9	5 45	18 20	18 56	Betelgeuse	271 0.2	N 7 24.4
	17	167 31.8	74 23.8	N 23 24.2	N 7	5 10	5 47	18 18	18 55	Canopus	263 56.1	S 52 42.5
	18	182 34.3	89 23.6	N 23 24.1	N 6	5 12	5 52	18 17	18 53	Capella	280 32.9	N 46 0.6
	19	197 36.8	104 23.5	N 23 24.1	N 5	5 14	5 54	18 15	18 51	Deneb	49 30.1	N 45 20.2
	20	212 39.2	119 23.4	N 23 24.0	N 4	5 16	5 56	18 13	18 49	Denebola	182 32.2	N 14 29.2
	21	227 41.7	134 23.2	N 23 24.0	N 3	5 18	5 58	18 11	18 47	Dubhe	193 50.3	N 61 40.3
22	242 44.1	149 23.1	N 23 23.9	N 2	5 20	5 59	18 10	18 45	Elnath	278 11.3	N 28 37.0	
23	257 46.6	164 23.0	N 23 23.9	N 1	5 21	6 1	18 8	18 44	Eltanin	90 44.9	N 51 29.4	
					0	5 23	6 3	18 6	18 42			
					S 1	5 25	6 5	18 4	18 40	Enif	33 45.6	N 9 56.9
					S 2	5 27	6 6	18 3	18 38	Formalhaut	15 22.5	S 29 32.1
					S 3	5 28	6 8	18 1	18 37	Gacrux	171 59.2	S 57 12.2
					S 4	5 30	6 10	17 59	18 35	Hadar	148 45.4	S 60 27.0
					S 5	5 32	6 12	17 57	18 33	Hamal	327 59.4	N 23 31.9
					S 6	5 34	6 13	17 56	18 31	Kaus Aust	83 41.6	S 34 22.3
					S 7	5 35	6 15	17 54	18 30	Kochab	137 19.5	N 74 5.9
					S 8	5 37	6 17	17 52	18 28	Markab	13 36.8	N 15 17.3
					S 9	5 39	6 19	17 50	18 26	Menkent	148 5.5	S 36 26.7
					S 10	5 40	6 20	17 49	18 25	Miaplacidu	221 39.8	S 69 47.2
					S 11	5 42	6 22	17 47	18 23	Mirfak	308 38.7	N 49 54.6
					S 12	5 44	6 24	17 45	18 21	Nunki	75 56.3	S 26 16.4
					S 13	5 45	6 26	17 43	18 20	Peacock	53 16.6	S 56 40.7
					S 14	5 47	6 27	17 41	18 18	Pollux	243 26.3	N 27 59.2
					S 15	5 53	6 29	17 40	18 16	Procyon	244 58.4	N 5 11.2
					S 20	6 1	6 39	17 30	18 8	Rasalhague	96 4.9	N 12 33.2
					S 25	6 10	6 49	17 20	17 59	Regulus	207 42.2	N 11 53.4
					S 30	6 19	7 0	17 9	17 50	Rigel	281 11.1	S 8 11.2
					S 35	6 28	7 12	16 57	17 41	Rigel Kent	139 47.4	S 60 54.2
					S 40	6 39	7 27	16 42	17 30	Schedar	349 38.9	N 56 37.0
					S 45	6 51	7 43	16 26	17 18	Shaula	96 19.6	S 37 6.7
					S 50	7 4	8 4	16 5	17 5	Sirius	258 32.7	S 16 44.2
					S 55	7 21	8 31	15 38	16 48	Spica	158 29.7	S 11 14.5
					S 60	7 43	9 10	14 59	16 26	Vega	80 37.6	N 38 48.0
Día		Sol			Luna							
		Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase		
		m s	m s		h m							
24		2 16	2 22	0.0	12 2		7.0	45				
25		2 29	2 35	0.1	12 3		7.8	55				

Tabla G. Viernes 26 de junio – sábado 27 de junio de 2015.


Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
26	h	° /	° /	° /	°	h m	h m	h m	h m	h m	h m	h m	° /	° /	° /
	0	273 48.2	179 19.6	N 23 22.2	N 60	—	2 38	21 27	—	Achernar	335 26.1	S 57 9.3			
	1	288 50.7	194 19.5	N 23 22.2	N 55	1 39	3 23	20 43	22 26	Acrux	173 7.6	S 63 11.4			
	2	303 53.1	209 19.4	N 23 22.1	N 50	2 38	3 53	20 13	21 27	Adhara	255 11.8	S 28 59.8			
	3	318 55.6	224 19.2	N 23 22.0	N 45	3 14	4 15	19 51	20 52	Aldebaran	290 48.1	N 16 32.2			
	4	333 58.1	239 19.1	N 23 21.9	N 40	3 40	4 33	19 33	20 26	Alioth	166 19.6	N 55 52.9			
	5	349 0.5	254 19.0	N 23 21.9	N 35	4 0	4 48	19 18	20 6	Alkaid	152 57.7	N 49 14.5			
	6	4 3.0	269 18.8	N 23 21.8	N 30	4 17	5 1	19 5	19 49	Alnair	27 41.9	S 46 52.8			
	7	19 5.5	284 18.7	N 23 21.7	N 25	4 31	5 12	18 53	19 35	Alnilam	275 45.3	S 1 11.7			
	8	34 7.9	299 18.6	N 23 21.6	N 20	4 44	5 23	18 43	19 22	Alphard	217 55.0	S 8 43.7			
	9	49 10.4	314 18.5	N 23 21.6	N 15	4 55	5 33	18 33	19 11	Alpheratz	357 42.0	N 29 10.4			
	10	64 12.9	329 18.3	N 23 21.5	N 14	4 57	5 34	18 31	19 9	Altair	62 6.7	N 8 54.7			
	11	79 15.3	344 18.2	N 23 21.4	N 13	4 59	5 36	18 29	19 7	Antares	112 24.2	S 26 27.8			
	12	94 17.8	359 18.1	N 23 21.3	N 12	5 1	5 38	18 28	19 5	Arcturus	145 54.0	N 19 6.8			
	13	109 20.2	14 17.9	N 23 21.2	N 11	5 3	5 44	18 26	19 3	Atria	107 24.2	S 69 3.2			
	14	124 22.7	29 17.8	N 23 21.1	N 10	5 5	5 46	18 24	19 1	Avior	234 17.9	S 59 33.9			
	15	139 25.2	44 17.7	N 23 21.1	N 9	5 7	5 48	18 22	18 59	Bellatrix	278 30.9	N 6 21.6			
	16	154 27.6	59 17.5	N 23 21.0	N 8	5 9	5 49	18 20	18 57	Betelgeuse	271 0.2	N 7 24.4			
	17	169 30.1	74 17.4	N 23 20.9	N 7	5 11	5 51	18 19	18 55	Canopus	263 56.1	S 52 42.4			
	18	184 32.6	89 17.3	N 23 20.8	N 6	5 13	5 53	18 17	18 53	Capella	280 32.9	N 46 0.6			
	19	199 35.0	104 17.1	N 23 20.7	N 5	5 15	5 55	18 15	18 51	Deneb	49 30.1	N 45 20.2			
	20	214 37.5	119 17.0	N 23 20.6	N 4	5 16	5 56	18 13	18 49	Denebola	182 32.2	N 14 29.2			
	21	229 40.0	134 16.9	N 23 20.5	N 3	5 18	5 58	18 12	18 48	Dubhe	193 50.4	N 61 40.3			
22	244 42.4	149 16.8	N 23 20.4	N 2	5 20	6 0	18 10	18 46	Elnath	278 11.3	N 28 37.0				
23	259 44.9	164 16.6	N 23 20.4	N 1	5 22	6 2	18 8	18 44	Eltanin	90 44.9	N 51 29.5				
27	0	274 47.3	179 16.5	N 23 20.3	S 1	5 25	6 5	18 5	18 40	Enif	33 45.5	N 9 56.9			
	1	289 49.8	194 16.4	N 23 20.2	S 2	5 27	6 7	18 3	18 39	Formalhaut	15 22.5	S 29 32.1			
	2	304 52.3	209 16.2	N 23 20.1	S 3	5 29	6 8	18 1	18 37	Gacrux	171 59.2	S 57 12.2			
	3	319 54.7	224 16.1	N 23 20.0	S 4	5 31	6 10	18 0	18 35	Hadar	148 45.5	S 60 27.0			
	4	334 57.2	239 16.0	N 23 19.9	S 5	5 32	6 12	17 58	18 34	Hamal	327 59.4	N 23 31.9			
	5	349 59.7	254 15.8	N 23 19.8	S 6	5 34	6 14	17 56	18 32	Kaus Aust	83 41.6	S 34 22.3			
	6	5 2.1	269 15.7	N 23 19.7	S 7	5 36	6 15	17 54	18 30	Kochab	137 19.5	N 74 5.9			
	7	20 4.6	284 15.6	N 23 19.6	S 8	5 37	6 17	17 53	18 29	Markab	13 36.8	N 15 17.3			
	8	35 7.1	299 15.5	N 23 19.5	S 9	5 39	6 19	17 51	18 27	Menkent	148 5.5	S 36 26.7			
	9	50 9.5	314 15.3	N 23 19.4	S 10	5 45	6 21	17 49	18 25	Miaplacidu	221 39.8	S 69 47.2			
	10	65 12.0	329 15.2	N 23 19.3	S 11	5 46	6 22	17 47	18 24	Mirfak	308 38.7	N 49 54.6			
	11	80 14.5	344 15.1	N 23 19.2	S 12	5 48	6 24	17 46	18 22	Nunki	75 56.2	S 26 16.4			
	12	95 16.9	359 14.9	N 23 19.1	S 13	5 50	6 26	17 44	18 20	Peacock	53 16.6	S 56 40.7			
	13	110 19.4	14 14.8	N 23 19.0	S 14	5 51	6 28	17 42	18 19	Pollux	243 26.3	N 27 59.2			
	14	125 21.8	29 14.7	N 23 18.9	S 15	5 53	6 30	17 40	18 17	Procyon	244 58.4	N 5 11.2			
	15	140 24.3	44 14.5	N 23 18.8	S 20	6 1	6 39	17 31	18 9	Rasalhague	96 4.9	N 12 33.2			
	16	155 26.8	59 14.4	N 23 18.7	S 25	6 10	6 49	17 21	18 0	Regulus	207 42.2	N 11 53.4			
	17	170 29.2	74 14.3	N 23 18.6	S 30	6 19	7 0	17 10	17 51	Rigel	281 11.1	S 8 11.2			
	18	185 31.7	89 14.2	N 23 18.5	S 35	6 28	7 13	16 57	17 41	Rigel Kent	139 47.4	S 60 54.2			
	19	200 34.2	104 14.0	N 23 18.4	S 40	6 39	7 27	16 43	17 31	Schedar	349 38.9	N 56 37.0			
	20	215 36.6	119 13.9	N 23 18.3	S 45	6 51	7 43	16 26	17 19	Shaula	96 19.6	S 37 6.7			
	21	230 39.1	134 13.8	N 23 18.2	S 50	7 4	8 4	16 6	17 5	Sirius	258 32.7	S 16 44.1			
	22	245 41.6	149 13.6	N 23 18.1	S 55	7 21	8 31	15 39	16 49	Spica	158 29.7	S 11 14.5			
23	260 44.0	164 13.5	N 23 18.0	S 60	7 43	9 10	15 0	16 27	Vega	80 37.6	N 38 48.0				
Día	Sol						Luna								
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase						
26	m s	m s		h m											
27	2 41	2 48	0.1	12 3		8.6	64								
	2 54	3 0	0.1	12 3		9.5	73								

Tabla G. Domingo 28 de junio – lunes 29 de junio de 2015.


Día	TU	Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		Aries	Sol							Nombre	SHA	Dec.
		GHA	GHA	Dec.	Lat.	h m	h m	h m	h m		SHA	Dec.
		° /	° /	° /	°						° /	° /
28	h				°	h m	h m	h m	h m			
	0	275 46.5	179 13.4	N 23 17.9	N 60	—	2 40	21 26	—	Achernar	335 26.1	S 57 9.3
	1	290 49.0	194 13.3	N 23 17.8	N 55	1 41	3 24	20 42	22 25	Acrux	173 7.6	S 63 11.4
	2	305 51.4	209 13.1	N 23 17.7	N 50	2 39	3 54	20 13	21 27	Adhara	255 11.8	S 28 59.8
	3	320 53.9	224 13.0	N 23 17.5	N 45	3 15	4 16	19 51	20 52	Aldebaran	290 48.1	N 16 32.2
	4	335 56.3	239 12.9	N 23 17.4	N 40	3 41	4 34	19 33	20 26	Alioth	166 19.6	N 55 52.9
	5	350 58.8	254 12.7	N 23 17.3	N 35	4 1	4 49	19 18	20 6	Alkaid	152 57.7	N 49 14.5
	6	6 1.3	269 12.6	N 23 17.2	N 30	4 18	5 2	19 5	19 49	Alnair	27 41.9	S 46 52.8
	7	21 3.7	284 12.5	N 23 17.1	N 25	4 32	5 13	18 54	19 35	Alnilam	275 45.3	S 1 11.7
	8	36 6.2	299 12.4	N 23 17.0	N 20	4 44	5 23	18 43	19 22	Alphard	217 55.0	S 8 43.7
	9	51 8.7	314 12.2	N 23 16.9	N 15	4 56	5 37	18 33	19 11	Alpheratz	357 42.0	N 29 10.5
	10	66 11.1	329 12.1	N 23 16.8	N 14	4 58	5 39	18 32	19 9	Altair	62 6.7	N 8 54.7
	11	81 13.6	344 12.0	N 23 16.6	N 13	5 0	5 41	18 30	19 7	Antares	112 24.2	S 26 27.8
	12	96 16.1	359 11.9	N 23 16.5	N 12	5 2	5 43	18 28	19 5	Arcturus	145 54.0	N 19 6.9
	13	111 18.5	14 11.7	N 23 16.4	N 11	5 4	5 44	18 26	19 3	Atria	107 24.2	S 69 3.2
	14	126 21.0	29 11.6	N 23 16.3	N 10	5 6	5 46	18 24	19 1	Avior	234 17.9	S 59 33.9
	15	141 23.4	44 11.5	N 23 16.2	N 9	5 8	5 48	18 23	18 59	Bellatrix	278 30.9	N 6 21.6
	16	156 25.9	59 11.3	N 23 16.1	N 8	5 10	5 50	18 21	18 57	Betelgeuse	271 0.2	N 7 24.4
	17	171 28.4	74 11.2	N 23 15.9	N 7	5 11	5 52	18 19	18 55	Canopus	263 56.1	S 52 42.4
	18	186 30.8	89 11.1	N 23 15.8	N 6	5 13	5 53	18 17	18 53	Capella	280 32.9	N 46 0.6
	19	201 33.3	104 11.0	N 23 15.7	N 5	5 15	5 55	18 16	18 51	Deneb	49 30.1	N 45 20.2
	20	216 35.8	119 10.8	N 23 15.6	N 4	5 17	5 57	18 14	18 50	Denebola	182 32.2	N 14 29.2
	21	231 38.2	134 10.7	N 23 15.4	N 3	5 19	5 59	18 12	18 48	Dubhe	193 50.4	N 61 40.3
22	246 40.7	149 10.6	N 23 15.3	N 2	5 21	6 0	18 10	18 46	Elnath	278 11.3	N 28 37.0	
23	261 43.2	164 10.5	N 23 15.2	N 1	5 22	6 2	18 9	18 44	Eltanin	90 44.9	N 51 29.5	
					0	5 24	6 4	18 7	18 43			
29	0	276 45.6	179 10.3	N 23 15.1	S 1	5 26	6 5	18 5	18 41	Enif	33 45.5	N 9 56.9
	1	291 48.1	194 10.2	N 23 14.9	S 2	5 28	6 7	18 3	18 39	Formalhaut	15 22.5	S 29 32.1
	2	306 50.6	209 10.1	N 23 14.8	S 3	5 29	6 9	18 2	18 37	Gacrux	171 59.2	S 57 12.2
	3	321 53.0	224 10.0	N 23 14.7	S 4	5 31	6 11	18 0	18 36	Hadar	148 45.5	S 60 27.0
	4	336 55.5	239 9.8	N 23 14.6	S 5	5 37	6 12	17 58	18 34	Hamal	327 59.4	N 23 32.0
	5	351 57.9	254 9.7	N 23 14.4	S 6	5 38	6 14	17 57	18 32	Kaus Aust	83 41.6	S 34 22.3
	6	7 0.4	269 9.6	N 23 14.3	S 7	5 40	6 16	17 55	18 31	Kochab	137 19.5	N 74 5.9
	7	22 2.9	284 9.5	N 23 14.2	S 8	5 42	6 17	17 53	18 29	Markab	13 36.8	N 15 17.3
	8	37 5.3	299 9.3	N 23 14.1	S 9	5 44	6 19	17 51	18 27	Menkent	148 5.5	S 36 26.7
	9	52 7.8	314 9.2	N 23 13.9	S 10	5 45	6 21	17 50	18 26	Miaplacidu	221 39.8	S 69 47.2
	10	67 10.3	329 9.1	N 23 13.8	S 11	5 47	6 23	17 48	18 24	Mirfak	308 38.7	N 49 54.6
	11	82 12.7	344 9.0	N 23 13.7	S 12	5 48	6 25	17 46	18 22	Nunki	75 56.2	S 26 16.4
	12	97 15.2	359 8.8	N 23 13.5	S 13	5 50	6 26	17 44	18 21	Peacock	53 16.6	S 56 40.7
	13	112 17.7	14 8.7	N 23 13.4	S 14	5 52	6 28	17 42	18 19	Pollux	243 26.3	N 27 59.2
	14	127 20.1	29 8.6	N 23 13.3	S 15	5 53	6 30	17 41	18 17	Procyon	244 58.4	N 5 11.2
	15	142 22.6	44 8.5	N 23 13.1	S 20	6 2	6 39	17 31	18 9	Rasalhague	96 4.9	N 12 33.2
	16	157 25.1	59 8.3	N 23 13.0	S 25	6 10	6 49	17 21	18 1	Regulus	207 42.2	N 11 53.4
	17	172 27.5	74 8.2	N 23 12.8	S 30	6 19	7 0	17 10	17 52	Rigel	281 11.1	S 8 11.2
	18	187 30.0	89 8.1	N 23 12.7	S 35	6 29	7 13	16 58	17 42	Rigel Kent	139 47.4	S 60 54.2
	19	202 32.4	104 8.0	N 23 12.6	S 40	6 39	7 27	16 44	17 32	Schedar	349 38.9	N 56 37.0
	20	217 34.9	119 7.8	N 23 12.4	S 45	6 51	7 43	16 27	17 20	Shaula	96 19.6	S 37 6.7
	21	232 37.4	134 7.7	N 23 12.3	S 50	7 4	8 4	16 7	17 6	Sirius	258 32.7	S 16 44.1
	22	247 39.8	149 7.6	N 23 12.1	S 55	7 21	8 31	15 40	16 50	Spica	158 29.7	S 11 14.5
23	262 42.3	164 7.5	N 23 12.0	S 60	7 42	9 9	15 2	16 28	Vega	80 37.6	N 38 48.0	
		Sol				Luna						
Día		Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día	Porcentaje de iluminación		Fase			
		m s	m s		h m							
28		3 6	3 12	0.1	12 3	10.5	81					
29		3 19	3 25	0.1	12 3	11.4	88					

Tabla G. Martes 30 de junio – miércoles 1 de julio de 2015.


Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
30	h	° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m						
	0	277 44.8	179 7.3	N 23 11.9	N 60	—	2 42	21 25	—				Achernar	335 26.1	S 57 9.3
	1	292 47.2	194 7.2	N 23 11.7	N 55	1 43	3 25	20 42	22 23				Acruz	173 7.6	S 63 11.4
	2	307 49.7	209 7.1	N 23 11.6	N 50	2 41	3 55	20 12	21 26				Adhara	255 11.8	S 28 59.8
	3	322 52.2	224 7.0	N 23 11.4	N 45	3 16	4 17	19 50	20 51				Aldebaran	290 48.1	N 16 32.2
	4	337 54.6	239 6.8	N 23 11.3	N 40	3 42	4 35	19 33	20 25				Alioth	166 19.6	N 55 52.9
	5	352 57.1	254 6.7	N 23 11.1	N 35	4 2	4 50	19 18	20 5				Alkaid	152 57.7	N 49 14.5
	6	7 59.5	269 6.6	N 23 11.0	N 30	4 18	5 2	19 5	19 49				Alnair	27 41.8	S 46 52.8
	7	23 2.0	284 6.5	N 23 10.9	N 25	4 33	5 14	18 54	19 35				Alnilam	275 45.3	S 1 11.7
	8	38 4.5	299 6.3	N 23 10.7	N 20	4 45	5 24	18 43	19 22				Alphard	217 55.0	S 8 43.7
	9	53 6.9	314 6.2	N 23 10.6	N 15	4 56	5 38	18 34	19 11				Alpheratz	357 42.0	N 29 10.5
	10	68 9.4	329 6.1	N 23 10.4	N 14	4 58	5 39	18 32	19 9				Altair	62 6.7	N 8 54.7
	11	83 11.9	344 6.0	N 23 10.3	N 13	5 0	5 41	18 30	19 7				Antares	112 24.2	S 26 27.8
	12	98 14.3	359 5.9	N 23 10.1	N 12	5 2	5 43	18 28	19 5				Arcturus	145 54.0	N 19 6.9
	13	113 16.8	14 5.7	N 23 10.0	N 11	5 4	5 45	18 26	19 3				Atria	107 24.2	S 69 3.2
	14	128 19.3	29 5.6	N 23 9.8	N 10	5 6	5 47	18 25	19 1				Avior	234 17.9	S 59 33.9
	15	143 21.7	44 5.5	N 23 9.7	N 9	5 8	5 49	18 23	18 59				Bellatrix	278 30.8	N 6 21.6
	16	158 24.2	59 5.4	N 23 9.5	N 8	5 10	5 50	18 21	18 57				Betelgeuse	271 0.1	N 7 24.4
	17	173 26.7	74 5.2	N 23 9.3	N 7	5 12	5 52	18 19	18 55				Canopus	263 56.1	S 52 42.4
	18	188 29.1	89 5.1	N 23 9.2	N 6	5 14	5 54	18 18	18 54				Capella	280 32.9	N 46 0.6
	19	203 31.6	104 5.0	N 23 9.0	N 5	5 16	5 55	18 16	18 52				Deneb	49 30.1	N 45 20.2
	20	218 34.0	119 4.9	N 23 8.9	N 4	5 17	5 57	18 14	18 50				Denebola	182 32.2	N 14 29.2
	21	233 36.5	134 4.8	N 23 8.7	N 3	5 19	5 59	18 12	18 48				Dubhe	193 50.4	N 61 40.3
22	248 39.0	149 4.6	N 23 8.6	N 2	5 21	6 1	18 11	18 46				Elnath	278 11.2	N 28 37.0	
23	263 41.4	164 4.5	N 23 8.4	N 1	5 23	6 2	18 9	18 45				Eltanin	90 44.9	N 51 29.5	
				0	5 28	6 4	18 7	18 43							
1	0	278 43.9	179 4.4	N 23 8.3	S 1	5 30	6 6	18 6	18 41				Enif	33 45.5	N 9 56.9
	1	293 46.4	194 4.3	N 23 8.1	S 2	5 32	6 7	18 4	18 40				Formalhaut	15 22.4	S 29 32.1
	2	308 48.8	209 4.1	N 23 7.9	S 3	5 34	6 9	18 2	18 38				Gacrux	171 59.2	S 57 12.2
	3	323 51.3	224 4.0	N 23 7.8	S 4	5 35	6 11	18 0	18 36				Hadar	148 45.5	S 60 27.0
	4	338 53.8	239 3.9	N 23 7.6	S 5	5 37	6 13	17 59	18 34				Hamal	327 59.4	N 23 32.0
	5	353 56.2	254 3.8	N 23 7.4	S 6	5 39	6 14	17 57	18 33				Kaus Aust	83 41.5	S 34 22.3
	6	8 58.7	269 3.7	N 23 7.3	S 7	5 40	6 16	17 55	18 31				Kochab	137 19.6	N 74 5.9
	7	24 1.2	284 3.5	N 23 7.1	S 8	5 42	6 18	17 54	18 29				Markab	13 36.8	N 15 17.3
	8	39 3.6	299 3.4	N 23 7.0	S 9	5 44	6 20	17 52	18 28				Menkent	148 5.5	S 36 26.7
	9	54 6.1	314 3.3	N 23 6.8	S 10	5 45	6 21	17 50	18 26				Miaplacidu	221 39.8	S 69 47.2
	10	69 8.5	329 3.2	N 23 6.6	S 11	5 47	6 23	17 48	18 25				Mirfak	308 38.7	N 49 54.6
	11	84 11.0	344 3.1	N 23 6.5	S 12	5 49	6 25	17 47	18 23				Nunki	75 56.2	S 26 16.4
	12	99 13.5	359 2.9	N 23 6.3	S 13	5 50	6 27	17 45	18 21				Peacock	53 16.6	S 56 40.7
	13	114 15.9	14 2.8	N 23 6.1	S 14	5 52	6 28	17 43	18 20				Pollux	243 26.3	N 27 59.2
	14	129 18.4	29 2.7	N 23 6.0	S 15	5 53	6 30	17 41	18 18				Procyon	244 58.4	N 5 11.2
	15	144 20.9	44 2.6	N 23 5.8	S 20	6 2	6 40	17 32	18 10				Rasalhague	96 4.9	N 12 33.2
	16	159 23.3	59 2.5	N 23 5.6	S 25	6 10	6 50	17 22	18 1				Regulus	207 42.2	N 11 53.4
	17	174 25.8	74 2.3	N 23 5.4	S 30	6 19	7 1	17 11	17 52				Rigel	281 11.1	S 8 11.2
	18	189 28.3	89 2.2	N 23 5.3	S 35	6 29	7 13	16 59	17 43				Rigel Kent	139 47.4	S 60 54.2
	19	204 30.7	104 2.1	N 23 5.1	S 40	6 39	7 27	16 45	17 33				Schedar	349 38.8	N 56 37.0
	20	219 33.2	119 2.0	N 23 4.9	S 45	6 51	7 43	16 28	17 21				Shaula	96 19.6	S 37 6.7
	21	234 35.7	134 1.9	N 23 4.8	S 50	7 4	8 4	16 8	17 7				Sirius	258 32.7	S 16 44.1
	22	249 38.1	149 1.7	N 23 4.6	S 55	7 21	8 30	15 41	16 51				Spica	158 29.7	S 11 14.5
23	264 40.6	164 1.6	N 23 4.4	S 60	7 42	9 8	15 3	16 30				Vega	80 37.6	N 38 48.0	
Día	Sol				Luna										
	Ecuación del tiempo (00 ^h)		Corr. <i>d</i>	Paso por el meridiano	Edad día	Porcentaje de iluminación		Fase							
	m s	m s		h m											
30	3 31	3 36	0.1	12 4	12.4	94									
1	3 42	3 48	0.2	12 4	13.5	98									

Tabla G. Jueves 2 de julio – viernes 3 de julio de 2015.

Día	TU	Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		Aries	Sol							Nombre	SHA	Dec.
		GHA	GHA	Dec.	Lat.	h m	h m	h m	h m		° / ' / "	° / ' / "
2	h	° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m		° / ' / "	° / ' / "
	0	279 43.0	179 1.5	N 23 4.2	N 60	—	2 44	21 23	—	Achernar	335 26.1	S 57 9.3
	1	294 45.5	194 1.4	N 23 4.1	N 55	1 46	3 27	20 41	22 21	Acrux	173 7.6	S 63 11.4
	2	309 48.0	209 1.3	N 23 3.9	N 50	2 43	3 56	20 12	21 25	Adhara	255 11.8	S 28 59.8
	3	324 50.4	224 1.2	N 23 3.7	N 45	3 17	4 18	19 50	20 50	Aldebaran	290 48.1	N 16 32.2
	4	339 52.9	239 1.0	N 23 3.5	N 40	3 43	4 36	19 32	20 25	Alioth	166 19.6	N 55 52.9
	5	354 55.4	254 0.9	N 23 3.3	N 35	4 3	4 50	19 18	20 5	Alkaid	152 57.7	N 49 14.5
	6	9 57.8	269 0.8	N 23 3.2	N 30	4 19	5 3	19 5	19 49	Alnair	27 41.8	S 46 52.8
	7	25 0.3	284 0.7	N 23 3.0	N 25	4 33	5 14	18 54	19 35	Alnilam	275 45.3	S 1 11.7
	8	40 2.8	299 0.6	N 23 2.8	N 20	4 46	5 29	18 43	19 22	Alphard	217 55.0	S 8 43.7
	9	55 5.2	314 0.4	N 23 2.6	N 15	4 57	5 38	18 34	19 11	Alpheratz	357 42.0	N 29 10.5
	10	70 7.7	329 0.3	N 23 2.4	N 14	4 59	5 40	18 32	19 9	Altair	62 6.7	N 8 54.7
	11	85 10.1	344 0.2	N 23 2.3	N 13	5 1	5 42	18 30	19 7	Antares	112 24.2	S 26 27.8
	12	100 12.6	359 0.1	N 23 2.1	N 12	5 3	5 44	18 28	19 5	Arcturus	145 54.0	N 19 6.9
	13	115 15.1	14 00.0	N 23 1.9	N 11	5 5	5 45	18 27	19 3	Atria	107 24.2	S 69 3.2
	14	130 17.5	28 59.9	N 23 1.7	N 10	5 7	5 47	18 25	19 1	Avior	234 18.0	S 59 33.8
	15	145 20.0	43 59.7	N 23 1.5	N 9	5 9	5 49	18 23	18 59	Bellatrix	278 30.8	N 6 21.6
	16	160 22.5	58 59.6	N 23 1.3	N 8	5 11	5 51	18 21	18 58	Betelgeuse	271 0.1	N 7 24.4
	17	175 24.9	73 59.5	N 23 1.1	N 7	5 12	5 52	18 20	18 56	Canopus	263 56.1	S 52 42.4
	18	190 27.4	88 59.4	N 23 1.0	N 6	5 14	5 54	18 18	18 54	Capella	280 32.9	N 46 0.6
	19	205 29.9	103 59.3	N 23 0.8	N 5	5 16	5 56	18 16	18 52	Deneb	49 30.0	N 45 20.2
	20	220 32.3	118 59.2	N 23 0.6	N 4	5 22	5 58	18 14	18 50	Denebola	182 32.2	N 14 29.2
	21	235 34.8	133 59.0	N 23 0.4	N 3	5 24	5 59	18 13	18 49	Dubhe	193 50.4	N 61 40.3
22	250 37.3	148 58.9	N 23 0.2	N 2	5 25	6 1	18 11	18 47	Elnath	278 11.2	N 28 37.0	
23	265 39.7	163 58.8	N 23 0.0	N 1	5 27	6 3	18 9	18 45	Eltanin	90 44.9	N 51 29.5	
3	0	280 42.2	178 58.7	N 22 59.8	S 1	5 31	6 6	18 6	18 42	Enif	33 45.5	N 9 56.9
	1	295 44.6	193 58.6	N 22 59.6	S 2	5 32	6 8	18 4	18 40	Formalhaut	15 22.4	S 29 32.1
	2	310 47.1	208 58.5	N 22 59.4	S 3	5 34	6 10	18 3	18 38	Gacrux	171 59.2	S 57 12.2
	3	325 49.6	223 58.4	N 22 59.2	S 4	5 36	6 11	18 1	18 37	Hadar	148 45.5	S 60 27.0
	4	340 52.0	238 58.2	N 22 59.0	S 5	5 37	6 13	17 59	18 35	Hamal	327 59.3	N 23 32.0
	5	355 54.5	253 58.1	N 22 58.8	S 6	5 39	6 15	17 58	18 33	Kaus Aust	83 41.5	S 34 22.3
	6	10 57.0	268 58.0	N 22 58.6	S 7	5 41	6 16	17 56	18 32	Kochab	137 19.6	N 74 5.9
	7	25 59.4	283 57.9	N 22 58.5	S 8	5 42	6 18	17 54	18 30	Markab	13 36.8	N 15 17.3
	8	41 1.9	298 57.8	N 22 58.3	S 9	5 44	6 20	17 52	18 28	Menkent	148 5.5	S 36 26.7
	9	56 4.4	313 57.7	N 22 58.1	S 10	5 46	6 22	17 51	18 27	Miaplacidu	221 39.9	S 69 47.2
	10	71 6.8	328 57.5	N 22 57.9	S 11	5 47	6 23	17 49	18 25	Mirfak	308 38.6	N 49 54.6
	11	86 9.3	343 57.4	N 22 57.7	S 12	5 49	6 25	17 47	18 23	Nunki	75 56.2	S 26 16.4
	12	101 11.8	358 57.3	N 22 57.5	S 13	5 50	6 27	17 45	18 22	Peacock	53 16.6	S 56 40.7
	13	116 14.2	13 57.2	N 22 57.3	S 14	5 52	6 29	17 44	18 20	Pollux	243 26.2	N 27 59.2
	14	131 16.7	28 57.1	N 22 57.1	S 15	5 54	6 30	17 42	18 18	Procyon	244 58.4	N 5 11.2
	15	146 19.1	43 57.0	N 22 56.8	S 20	6 2	6 40	17 32	18 10	Rasalhague	96 4.9	N 12 33.3
	16	161 21.6	58 56.9	N 22 56.6	S 25	6 10	6 50	17 23	18 2	Regulus	207 42.2	N 11 53.4
	17	176 24.1	73 56.7	N 22 56.4	S 30	6 19	7 0	17 12	17 53	Rigel	281 11.0	S 8 11.2
	18	191 26.5	88 56.6	N 22 56.2	S 35	6 29	7 13	17 0	17 44	Rigel Kent	139 47.4	S 60 54.3
	19	206 29.0	103 56.5	N 22 56.0	S 40	6 39	7 26	16 46	17 33	Schedar	349 38.8	N 56 37.0
	20	221 31.5	118 56.4	N 22 55.8	S 45	6 50	7 43	16 29	17 22	Shaula	96 19.6	S 37 6.7
	21	236 33.9	133 56.3	N 22 55.6	S 50	7 4	8 3	16 9	17 9	Sirius	258 32.7	S 16 44.1
	22	251 36.4	148 56.2	N 22 55.4	S 55	7 20	8 29	15 43	16 52	Spica	158 29.7	S 11 14.5
23	266 38.9	163 56.1	N 22 55.2	S 60	7 41	9 7	15 6	16 31	Vega	80 37.6	N 38 48.0	
		Sol				Luna						
Día	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día	Porcentaje de iluminación		Fase				
	m s	m s		h m								
2	3 54	3 59	0.2	12 4	14.6	99						
3	4 5	4 11	0.2	12 4	15.7	98						

Tabla G. Sábado 4 de julio – domingo 5 de julio de 2015.

Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas			
		GHA	GHA	Dec.	Nombre	SHA	Dec.									
	h	° / ' / "	° / ' / "	° / ' / "	°	h	m	h	m	h	m	h	m	° / ' / "	° / ' / "	
4	0	281 41.3	178 56.0	N 22 55.0	N 60	—	—	2 47	21 21	—	—	—	—	Achernar	335 26.0	S 57 9.3
	1	296 43.8	193 55.8	N 22 54.8	N 55	1 49	3 29	20 39	20 39	22 18	22 18	22 18	22 18	Acrux	173 7.6	S 63 11.4
	2	311 46.2	208 55.7	N 22 54.6	N 50	2 45	3 58	20 11	20 11	21 24	21 24	21 24	21 24	Adhara	255 11.8	S 28 59.8
	3	326 48.7	223 55.6	N 22 54.4	N 45	3 19	4 19	19 49	19 49	20 50	20 50	20 50	20 50	Aldebaran	290 48.1	N 16 32.2
	4	341 51.2	238 55.5	N 22 54.2	N 40	3 44	4 37	19 32	19 32	20 24	20 24	20 24	20 24	Alioth	166 19.6	N 55 52.9
	5	356 53.6	253 55.4	N 22 53.9	N 35	4 4	4 51	19 17	19 17	20 5	20 5	20 5	20 5	Alkaid	152 57.7	N 49 14.5
	6	11 56.1	268 55.3	N 22 53.7	N 30	4 20	5 4	19 5	19 5	19 48	19 48	19 48	19 48	Alnair	27 41.8	S 46 52.8
	7	26 58.6	283 55.2	N 22 53.5	N 25	4 34	5 19	18 54	18 54	19 35	19 35	19 35	19 35	Alnilam	275 45.3	S 1 11.7
	8	42 1.0	298 55.1	N 22 53.3	N 20	4 46	5 29	18 43	18 43	19 22	19 22	19 22	19 22	Alphard	217 55.0	S 8 43.7
	9	57 3.5	313 54.9	N 22 53.1	N 15	4 57	5 39	18 34	18 34	19 11	19 11	19 11	19 11	Alpheratz	357 42.0	N 29 10.5
	10	72 6.0	328 54.8	N 22 52.9	N 14	4 59	5 41	18 32	18 32	19 9	19 9	19 9	19 9	Altair	62 6.7	N 8 54.7
	11	87 8.4	343 54.7	N 22 52.7	N 13	5 1	5 42	18 30	18 30	19 7	19 7	19 7	19 7	Antares	112 24.2	S 26 27.8
	12	102 10.9	358 54.6	N 22 52.4	N 12	5 3	5 44	18 29	18 29	19 5	19 5	19 5	19 5	Arcturus	145 54.0	N 19 6.9
	13	117 13.4	13 54.5	N 22 52.2	N 11	5 5	5 46	18 27	18 27	19 3	19 3	19 3	19 3	Atria	107 24.2	S 69 3.2
	14	132 15.8	28 54.4	N 22 52.0	N 10	5 7	5 48	18 25	18 25	19 2	19 2	19 2	19 2	Avior	234 18.0	S 59 33.8
	15	147 18.3	43 54.3	N 22 51.8	N 9	5 13	5 49	18 23	18 23	19 0	19 0	19 0	19 0	Bellatrix	278 30.8	N 6 21.6
	16	162 20.7	58 54.2	N 22 51.6	N 8	5 15	5 51	18 22	18 22	18 58	18 58	18 58	18 58	Betelgeuse	271 0.1	N 7 24.4
	17	177 23.2	73 54.1	N 22 51.3	N 7	5 17	5 53	18 20	18 20	18 56	18 56	18 56	18 56	Canopus	263 56.1	S 52 42.4
	18	192 25.7	88 53.9	N 22 51.1	N 6	5 19	5 55	18 18	18 18	18 54	18 54	18 54	18 54	Capella	280 32.8	N 46 0.6
	19	207 28.1	103 53.8	N 22 50.9	N 5	5 21	5 56	18 16	18 16	18 52	18 52	18 52	18 52	Deneb	49 30.0	N 45 20.2
	20	222 30.6	118 53.7	N 22 50.7	N 4	5 22	5 58	18 15	18 15	18 51	18 51	18 51	18 51	Denebola	182 32.2	N 14 29.2
	21	237 33.1	133 53.6	N 22 50.4	N 3	5 24	6 0	18 13	18 13	18 49	18 49	18 49	18 49	Dubhe	193 50.4	N 61 40.3
	22	252 35.5	148 53.5	N 22 50.2	N 2	5 26	6 1	18 11	18 11	18 47	18 47	18 47	18 47	Elnath	278 11.2	N 28 37.0
23	267 38.0	163 53.4	N 22 50.0	N 1	5 28	6 3	18 10	18 10	18 45	18 45	18 45	18 45	Eltanin	90 44.9	N 51 29.5	
					0	5 29	6 5	18 8	18 44	18 44	18 44	18 44	18 44			
	0	282 40.5	178 53.3	N 22 49.8	S 1	5 31	6 7	18 6	18 42	18 42	18 42	18 42	18 42	Enif	33 45.5	N 9 56.9
	1	297 42.9	193 53.2	N 22 49.5	S 2	5 33	6 8	18 5	18 40	18 40	18 40	18 40	18 40	Formalhaut	15 22.4	S 29 32.1
	2	312 45.4	208 53.1	N 22 49.3	S 3	5 34	6 10	18 3	18 39	18 39	18 39	18 39	18 39	Gacrux	171 59.2	S 57 12.2
	3	327 47.9	223 53.0	N 22 49.1	S 4	5 36	6 12	18 1	18 37	18 37	18 37	18 37	18 37	Hadar	148 45.5	S 60 27.0
	4	342 50.3	238 52.8	N 22 48.9	S 5	5 38	6 13	18 0	18 35	18 35	18 35	18 35	18 35	Hamal	327 59.3	N 23 32.0
	5	357 52.8	253 52.7	N 22 48.6	S 6	5 39	6 15	17 58	18 34	18 34	18 34	18 34	18 34	Kaus Aust	83 41.5	S 34 22.4
	6	12 55.2	268 52.6	N 22 48.4	S 7	5 41	6 17	17 56	18 32	18 32	18 32	18 32	18 32	Kochab	137 19.6	N 74 5.9
	7	27 57.7	283 52.5	N 22 48.2	S 8	5 43	6 18	17 55	18 30	18 30	18 30	18 30	18 30	Markab	13 36.8	N 15 17.3
	8	43 0.2	298 52.4	N 22 47.9	S 9	5 44	6 20	17 53	18 28	18 28	18 28	18 28	18 28	Menkent	148 5.5	S 36 26.7
	9	58 2.6	313 52.3	N 22 47.7	S 10	5 46	6 22	17 51	18 27	18 27	18 27	18 27	18 27	Miaplacidu	221 39.9	S 69 47.2
	10	73 5.1	328 52.2	N 22 47.5	S 11	5 47	6 24	17 49	18 25	18 25	18 25	18 25	18 25	Mirfak	308 38.6	N 49 54.6
	11	88 7.6	343 52.1	N 22 47.2	S 12	5 49	6 25	17 48	18 24	18 24	18 24	18 24	18 24	Nunki	75 56.2	S 26 16.4
	12	103 10.0	358 52.0	N 22 47.0	S 13	5 51	6 27	17 46	18 22	18 22	18 22	18 22	18 22	Peacock	53 16.6	S 56 40.7
	13	118 12.5	13 51.9	N 22 46.8	S 14	5 52	6 29	17 44	18 21	18 21	18 21	18 21	18 21	Pollux	243 26.2	N 27 59.2
	14	133 15.0	28 51.8	N 22 46.5	S 15	5 54	6 31	17 42	18 19	18 19	18 19	18 19	18 19	Procyon	244 58.4	N 5 11.2
	15	148 17.4	43 51.7	N 22 46.3	S 20	6 2	6 40	17 33	18 11	18 11	18 11	18 11	18 11	Rasalhague	96 4.8	N 12 33.3
	16	163 19.9	58 51.5	N 22 46.1	S 25	6 10	6 50	17 23	18 3	18 3	18 3	18 3	18 3	Regulus	207 42.2	N 11 53.4
	17	178 22.3	73 51.4	N 22 45.8	S 30	6 19	7 0	17 13	17 54	17 54	17 54	17 54	17 54	Rigel	281 11.0	S 8 11.2
	18	193 24.8	88 51.3	N 22 45.6	S 35	6 28	7 12	17 1	17 45	17 45	17 45	17 45	17 45	Rigel Kent	139 47.4	S 60 54.3
	19	208 27.3	103 51.2	N 22 45.4	S 40	6 39	7 26	16 47	17 34	17 34	17 34	17 34	17 34	Schedar	349 38.8	N 56 37.1
	20	223 29.7	118 51.1	N 22 45.1	S 45	6 50	7 42	16 31	17 23	17 23	17 23	17 23	17 23	Shaula	96 19.6	S 37 6.7
	21	238 32.2	133 51.0	N 22 44.9	S 50	7 3	8 2	16 11	17 10	17 10	17 10	17 10	17 10	Sirius	258 32.7	S 16 44.1
	22	253 34.7	148 50.9	N 22 44.6	S 55	7 19	8 28	15 45	16 54	16 54	16 54	16 54	16 54	Spica	158 29.7	S 11 14.5
	23	268 37.1	163 50.8	N 22 44.4	S 60	7 40	9 5	15 8	16 33	16 33	16 33	16 33	16 33	Vega	80 37.6	N 38 48.1
		Sol						Luna								
Día		Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día		Porcentaje de iluminación		Fase					
		m s	m s		h m											
4		4 16	4 21	0.2	12 4		16.9		95							
5		4 27	4 32	0.2	12 5		17.9		89							

Tabla G. Lunes 6 de julio – martes 7 de julio de 2015.

Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
		° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m	h m	h m	° / ' / "	° / ' / "	° / ' / "	
6	h														
	0	283 39.6	178 50.7	N 22 44.2	N 60	—	2 49	21 19	—	Achernar	335 26.0	S 57 9.2			
	1	298 42.1	193 50.6	N 22 43.9	N 55	1 53	3 31	20 38	22 15	Acrux	173 7.6	S 63 11.4			
	2	313 44.5	208 50.5	N 22 43.7	N 50	2 47	3 59	20 10	21 22	Adhara	255 11.8	S 28 59.8			
	3	328 47.0	223 50.4	N 22 43.4	N 45	3 21	4 21	19 49	20 48	Aldebaran	290 48.1	N 16 32.2			
	4	343 49.5	238 50.3	N 22 43.2	N 40	3 45	4 38	19 31	20 24	Alioth	166 19.6	N 55 52.9			
	5	358 51.9	253 50.2	N 22 42.9	N 35	4 5	4 52	19 17	20 4	Alkaid	152 57.7	N 49 14.5			
	6	13 54.4	268 50.1	N 22 42.7	N 30	4 21	5 9	19 5	19 48	Alnair	27 41.8	S 46 52.8			
	7	28 56.8	283 50.0	N 22 42.4	N 25	4 35	5 20	18 53	19 34	Alnilam	275 45.3	S 1 11.7			
	8	43 59.3	298 49.9	N 22 42.2	N 20	4 47	5 30	18 43	19 22	Alphard	217 55.0	S 8 43.7			
	9	59 1.8	313 49.7	N 22 41.9	N 15	4 58	5 39	18 34	19 11	Alpheratz	357 41.9	N 29 10.5			
	10	74 4.2	328 49.6	N 22 41.7	N 14	5 0	5 41	18 32	19 9	Altair	62 6.7	N 8 54.7			
	11	89 6.7	343 49.5	N 22 41.4	N 13	5 6	5 43	18 30	19 7	Antares	112 24.2	S 26 27.8			
	12	104 9.2	358 49.4	N 22 41.2	N 12	5 8	5 45	18 29	19 5	Arcturus	145 54.1	N 19 6.9			
	13	119 11.6	13 49.3	N 22 40.9	N 11	5 10	5 47	18 27	19 4	Atria	107 24.2	S 69 3.2			
	14	134 14.1	28 49.2	N 22 40.7	N 10	5 12	5 48	18 25	19 2	Avior	234 18.0	S 59 33.8			
	15	149 16.6	43 49.1	N 22 40.4	N 9	5 14	5 50	18 24	19 0	Bellatrix	278 30.8	N 6 21.6			
	16	164 19.0	58 49.0	N 22 40.2	N 8	5 16	5 52	18 22	18 58	Betelgeuse	271 0.1	N 7 24.4			
	17	179 21.5	73 48.9	N 22 39.9	N 7	5 17	5 53	18 20	18 56	Canopus	263 56.1	S 52 42.4			
	18	194 24.0	88 48.8	N 22 39.7	N 6	5 19	5 55	18 18	18 54	Capella	280 32.8	N 46 0.6			
	19	209 26.4	103 48.7	N 22 39.4	N 5	5 21	5 57	18 17	18 52	Deneb	49 30.0	N 45 20.2			
	20	224 28.9	118 48.6	N 22 39.2	N 4	5 23	5 58	18 15	18 51	Denebola	182 32.2	N 14 29.2			
	21	239 31.3	133 48.5	N 22 38.9	N 3	5 25	6 0	18 13	18 49	Dubhe	193 50.4	N 61 40.3			
22	254 33.8	148 48.4	N 22 38.7	N 2	5 26	6 2	18 12	18 47	Elnath	278 11.2	N 28 37.0				
23	269 36.3	163 48.3	N 22 38.4	N 1	5 28	6 4	18 10	18 46	Eltanin	90 45.0	N 51 29.5				
7	0	284 38.7	178 48.2	N 22 38.1	S 1	5 31	6 7	18 7	18 42	Enif	33 45.5	N 9 56.9			
	1	299 41.2	193 48.1	N 22 37.9	S 2	5 33	6 9	18 5	18 41	Formalhaut	15 22.4	S 29 32.1			
	2	314 43.7	208 48.0	N 22 37.6	S 3	5 35	6 10	18 3	18 39	Gacrux	171 59.3	S 57 12.2			
	3	329 46.1	223 47.9	N 22 37.4	S 4	5 36	6 12	18 2	18 37	Hadar	148 45.5	S 60 27.0			
	4	344 48.6	238 47.8	N 22 37.1	S 5	5 38	6 14	18 0	18 36	Hamal	327 59.3	N 23 32.0			
	5	359 51.1	253 47.7	N 22 36.8	S 6	5 40	6 15	17 58	18 34	Kaus Aust	83 41.5	S 34 22.4			
	6	14 53.5	268 47.6	N 22 36.6	S 7	5 41	6 17	17 57	18 32	Kochab	137 19.7	N 74 5.9			
	7	29 56.0	283 47.5	N 22 36.3	S 8	5 43	6 19	17 55	18 31	Markab	13 36.8	N 15 17.4			
	8	44 58.5	298 47.4	N 22 36.1	S 9	5 45	6 21	17 53	18 29	Menkent	148 5.6	S 36 26.7			
	9	60 0.9	313 47.3	N 22 35.8	S 10	5 46	6 22	17 52	18 28	Miaplacidu	221 39.9	S 69 47.2			
	10	75 3.4	328 47.2	N 22 35.5	S 11	5 48	6 24	17 50	18 26	Mirfak	308 38.6	N 49 54.6			
	11	90 5.8	343 47.1	N 22 35.3	S 12	5 49	6 25	17 48	18 24	Nunki	75 56.2	S 26 16.4			
	12	105 8.3	358 47.0	N 22 35.0	S 13	5 51	6 27	17 46	18 23	Peacock	53 16.5	S 56 40.8			
	13	120 10.8	13 46.9	N 22 34.7	S 14	5 52	6 29	17 45	18 21	Pollux	243 26.2	N 27 59.2			
	14	135 13.2	28 46.8	N 22 34.5	S 15	5 54	6 31	17 43	18 20	Procyon	244 58.4	N 5 11.2			
	15	150 15.7	43 46.7	N 22 34.2	S 20	6 2	6 40	17 34	18 12	Rasalhague	96 4.9	N 12 33.3			
	16	165 18.2	58 46.6	N 22 33.9	S 25	6 10	6 50	17 24	18 3	Regulus	207 42.2	N 11 53.4			
	17	180 20.6	73 46.5	N 22 33.6	S 30	6 19	7 0	17 13	17 55	Rigel	281 11.0	S 8 11.2			
	18	195 23.1	88 46.4	N 22 33.4	S 35	6 28	7 12	17 2	17 46	Rigel Kent	139 47.5	S 60 54.3			
	19	210 25.6	103 46.3	N 22 33.1	S 40	6 38	7 26	16 48	17 36	Schedar	349 38.8	N 56 37.1			
	20	225 28.0	118 46.2	N 22 32.8	S 45	6 49	7 42	16 32	17 24	Shaula	96 19.6	S 37 6.7			
	21	240 30.5	133 46.1	N 22 32.6	S 50	7 3	8 1	16 12	17 11	Sirius	258 32.7	S 16 44.1			
	22	255 32.9	148 46.0	N 22 32.3	S 55	7 18	8 27	15 47	16 55	Spica	158 29.7	S 11 14.5			
23	270 35.4	163 45.9	N 22 32.0	S 60	7 39	9 3	15 11	16 35	Vega	80 37.6	N 38 48.1				
Día		Sol			Luna										
		Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase					
		m s	m s		h m										
6		4 37	4 42	0.2	12 5		19.0	80							
7		4 47	4 52	0.3	12 5		20.1	70							

Tabla G. Miércoles 8 de julio – jueves 9 de julio de 2015.


Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
8	h	° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m	h m	h m	h m	Nombre	° / ' / "	° / ' / "
	0	285 37.9	178 45.8	N 22 31.7	N 60	—	2 52	21 17	—	Achernar	335 26.0	S 57 9.2			
	1	300 40.3	193 45.7	N 22 31.5	N 55	1 57	3 33	20 36	22 12	Acruz	173 7.7	S 63 11.4			
	2	315 42.8	208 45.6	N 22 31.2	N 50	2 49	4 1	20 9	21 20	Adhara	255 11.8	S 28 59.8			
	3	330 45.3	223 45.5	N 22 30.9	N 45	3 22	4 22	19 48	20 47	Aldebaran	290 48.1	N 16 32.2			
	4	345 47.7	238 45.4	N 22 30.6	N 40	3 47	4 39	19 31	20 23	Alioth	166 19.7	N 55 52.9			
	5	0 50.2	253 45.3	N 22 30.4	N 35	4 6	4 57	19 16	20 4	Alkaid	152 57.7	N 49 14.5			
	6	15 52.7	268 45.2	N 22 30.1	N 30	4 22	5 10	19 4	19 48	Alnair	27 41.8	S 46 52.8			
	7	30 55.1	283 45.1	N 22 29.8	N 25	4 36	5 21	18 53	19 34	Alnilam	275 45.3	S 1 11.7			
	8	45 57.6	298 45.0	N 22 29.5	N 20	4 48	5 31	18 43	19 22	Alphard	217 55.0	S 8 43.7			
	9	61 0.1	313 44.9	N 22 29.2	N 15	5 3	5 40	18 34	19 11	Alpheratz	357 41.9	N 29 10.5			
	10	76 2.5	328 44.8	N 22 29.0	N 14	5 5	5 42	18 32	19 9	Altair	62 6.7	N 8 54.7			
	11	91 5.0	343 44.7	N 22 28.7	N 13	5 7	5 44	18 31	19 7	Antares	112 24.2	S 26 27.8			
	12	106 7.4	358 44.6	N 22 28.4	N 12	5 9	5 45	18 29	19 5	Arcturus	145 54.1	N 19 6.9			
	13	121 9.9	13 44.5	N 22 28.1	N 11	5 11	5 47	18 27	19 4	Atria	107 24.2	S 69 3.2			
	14	136 12.4	28 44.4	N 22 27.8	N 10	5 12	5 49	18 25	19 2	Avior	234 18.0	S 59 33.8			
	15	151 14.8	43 44.3	N 22 27.5	N 9	5 14	5 50	18 24	19 0	Bellatrix	278 30.8	N 6 21.6			
	16	166 17.3	58 44.2	N 22 27.2	N 8	5 16	5 52	18 22	18 58	Betelgeuse	271 0.1	N 7 24.4			
	17	181 19.8	73 44.1	N 22 27.0	N 7	5 18	5 54	18 20	18 56	Canopus	263 56.1	S 52 42.4			
	18	196 22.2	88 44.0	N 22 26.7	N 6	5 20	5 56	18 19	18 54	Capella	280 32.8	N 46 0.6			
	19	211 24.7	103 43.9	N 22 26.4	N 5	5 21	5 57	18 17	18 53	Deneb	49 30.0	N 45 20.2			
	20	226 27.2	118 43.8	N 22 26.1	N 4	5 23	5 59	18 15	18 51	Denebola	182 32.2	N 14 29.2			
	21	241 29.6	133 43.7	N 22 25.8	N 3	5 25	6 1	18 14	18 49	Dubhe	193 50.4	N 61 40.3			
22	256 32.1	148 43.6	N 22 25.5	N 2	5 27	6 2	18 12	18 47	Elnath	278 11.2	N 28 37.0				
23	271 34.6	163 43.5	N 22 25.2	N 1	5 28	6 4	18 10	18 46	Eltanin	90 45.0	N 51 29.5				
				0	5 30	6 5	18 9	18 44							
9	0	286 37.0	178 43.4	N 22 24.9	S 1	5 32	6 7	18 42	Enif	33 45.5	N 9 56.9				
	1	301 39.5	193 43.3	N 22 24.6	S 2	5 33	6 9	18 41	Formalhaut	15 22.4	S 29 32.1				
	2	316 41.9	208 43.3	N 22 24.4	S 3	5 35	6 10	18 4	Gacrux	171 59.3	S 57 12.2				
	3	331 44.4	223 43.2	N 22 24.1	S 4	5 37	6 12	18 2	Hadar	148 45.5	S 60 27.0				
	4	346 46.9	238 43.1	N 22 23.8	S 5	5 38	6 14	18 0	Hamal	327 59.3	N 23 32.0				
	5	1 49.3	253 43.0	N 22 23.5	S 6	5 40	6 15	17 59	Kaus Aust	83 41.5	S 34 22.4				
	6	16 51.8	268 42.9	N 22 23.2	S 7	5 41	6 17	17 57	Kochab	137 19.7	N 74 5.9				
	7	31 54.3	283 42.8	N 22 22.9	S 8	5 43	6 19	17 55	Markab	13 36.7	N 15 17.4				
	8	46 56.7	298 42.7	N 22 22.6	S 9	5 45	6 21	17 54	18 29	Menkent	148 5.6	S 36 26.7			
	9	61 59.2	313 42.6	N 22 22.3	S 10	5 46	6 22	17 52	18 28	Miaplacidu	221 39.9	S 69 47.2			
	10	77 1.7	328 42.5	N 22 22.0	S 11	5 48	6 24	17 50	18 26	Mirfak	308 38.6	N 49 54.6			
	11	92 4.1	343 42.4	N 22 21.7	S 12	5 49	6 26	17 49	18 25	Nunki	75 56.2	S 26 16.4			
	12	107 6.6	358 42.3	N 22 21.4	S 13	5 51	6 27	17 47	18 23	Peacock	53 16.5	S 56 40.8			
	13	122 9.0	13 42.2	N 22 21.1	S 14	5 53	6 29	17 45	18 22	Pollux	243 26.2	N 27 59.2			
	14	137 11.5	28 42.1	N 22 20.8	S 15	5 54	6 31	17 44	18 20	Procyon	244 58.4	N 5 11.2			
	15	152 14.0	43 42.0	N 22 20.5	S 20	6 2	6 40	17 35	18 12	Rasalhague	96 4.9	N 12 33.3			
	16	167 16.4	58 41.9	N 22 20.2	S 25	6 10	6 49	17 25	18 4	Regulus	207 42.2	N 11 53.4			
	17	182 18.9	73 41.9	N 22 19.9	S 30	6 19	7 0	17 14	17 56	Rigel	281 11.0	S 8 11.2			
	18	197 21.4	88 41.8	N 22 19.6	S 35	6 28	7 12	17 3	17 47	Rigel Kent	139 47.5	S 60 54.3			
	19	212 23.8	103 41.7	N 22 19.3	S 40	6 38	7 25	16 49	17 37	Schedar	349 38.7	N 56 37.1			
	20	227 26.3	118 41.6	N 22 19.0	S 45	6 49	7 41	16 34	17 26	Shaula	96 19.6	S 37 6.7			
	21	242 28.8	133 41.5	N 22 18.7	S 50	7 2	8 0	16 14	17 13	Sirius	258 32.7	S 16 44.1			
	22	257 31.2	148 41.4	N 22 18.4	S 55	7 17	8 26	15 49	16 57	Spica	158 29.7	S 11 14.5			
23	272 33.7	163 41.3	N 22 18.1	S 60	7 37	9 1	15 13	16 37	Vega	80 37.6	N 38 48.1				
		Sol						Luna							
Día		Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día		Porcentaje de iluminación		Fase				
		m s	m s		h m										
8		4 57	5 1	0.3	12 5		21.1		59						
9		5 6	5 11	0.3	12 5		22.1		48						

Tabla G. Viernes 10 de julio – sábado 11 de julio de 2015.

Día	TU	Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		Aries	Sol							Nombre	SHA	Dec.
		GHA	GHA	Dec.		h m	h m	h m	h m		° / ' / "	° / ' / "
10	h	° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m		° / ' / "	° / ' / "
	0	287 36.2	178 41.2	N 22 17.8	N 60	—	2 56	21 14	—	Achernar	335 26.0	S 57 9.2
	1	302 38.6	193 41.1	N 22 17.5	N 55	2 1	3 35	20 35	22 9	Acrux	173 7.7	S 63 11.4
	2	317 41.1	208 41.0	N 22 17.1	N 50	2 52	4 3	20 7	21 18	Adhara	255 11.8	S 28 59.8
	3	332 43.5	223 40.9	N 22 16.8	N 45	3 24	4 24	19 47	20 46	Aldebaran	290 48.0	N 16 32.2
	4	347 46.0	238 40.8	N 22 16.5	N 40	3 49	4 41	19 30	20 22	Alioth	166 19.7	N 55 52.9
	5	2 48.5	253 40.8	N 22 16.2	N 35	4 8	4 59	19 16	20 3	Alkaid	152 57.7	N 49 14.5
	6	17 50.9	268 40.7	N 22 15.9	N 30	4 23	5 11	19 4	19 47	Alnair	27 41.7	S 24 52.8
	7	32 53.4	283 40.6	N 22 15.6	N 25	4 37	5 22	18 53	19 34	Alnilam	275 45.3	S 1 11.7
	8	47 55.9	298 40.5	N 22 15.3	N 20	4 53	5 31	18 43	19 22	Alphard	217 55.0	S 8 43.7
	9	62 58.3	313 40.4	N 22 15.0	N 15	5 3	5 41	18 34	19 11	Alpheratz	357 41.9	N 29 10.5
	10	78 0.8	328 40.3	N 22 14.7	N 14	5 5	5 42	18 32	19 9	Altair	62 6.7	N 8 54.7
	11	93 3.3	343 40.2	N 22 14.3	N 13	5 7	5 44	18 31	19 7	Antares	112 24.2	S 26 27.8
	12	108 5.7	358 40.1	N 22 14.0	N 12	5 9	5 46	18 29	19 5	Arcturus	145 54.1	N 19 6.9
	13	123 8.2	13 40.0	N 22 13.7	N 11	5 11	5 48	18 27	19 4	Atria	107 24.2	S 69 3.2
	14	138 10.7	28 40.0	N 22 13.4	N 10	5 13	5 49	18 25	19 2	Avior	234 18.0	S 59 33.8
	15	153 13.1	43 39.9	N 22 13.1	N 9	5 15	5 51	18 24	19 0	Bellatrix	278 30.8	N 6 21.6
	16	168 15.6	58 39.8	N 22 12.8	N 8	5 17	5 53	18 22	18 58	Betelgeuse	271 0.1	N 7 24.4
	17	183 18.0	73 39.7	N 22 12.4	N 7	5 18	5 54	18 20	18 56	Canopus	263 56.1	S 52 42.4
	18	198 20.5	88 39.6	N 22 12.1	N 6	5 20	5 56	18 19	18 54	Capella	280 32.8	N 46 0.6
	19	213 23.0	103 39.5	N 22 11.8	N 5	5 22	5 58	18 17	18 53	Deneb	49 30.0	N 45 20.2
	20	228 25.4	118 39.4	N 22 11.5	N 4	5 24	5 59	18 15	18 51	Denebola	182 32.2	N 14 29.2
	21	243 27.9	133 39.3	N 22 11.2	N 3	5 25	6 1	18 14	18 49	Dubhe	193 50.4	N 61 40.3
22	258 30.4	148 39.3	N 22 10.8	N 2	5 27	6 3	18 12	18 48	Elnath	278 11.2	N 28 37.0	
23	273 32.8	163 39.2	N 22 10.5	N 1	5 29	6 4	18 11	18 46	Eltanin	90 45.0	N 51 29.5	
11	0	288 35.3	178 39.1	N 22 10.2	S 1	5 32	6 7	18 7	18 43	Enif	33 45.5	N 9 56.9
	1	303 37.8	193 39.0	N 22 9.9	S 2	5 34	6 9	18 6	18 41	Formalhaut	15 22.4	S 29 32.1
	2	318 40.2	208 38.9	N 22 9.5	S 3	5 35	6 11	18 4	18 39	Gacrux	171 59.3	S 57 12.2
	3	333 42.7	223 38.8	N 22 9.2	S 4	5 37	6 12	18 2	18 38	Hadar	148 45.5	S 60 27.0
	4	348 45.1	238 38.7	N 22 8.9	S 5	5 39	6 14	18 1	18 36	Hamal	327 59.3	N 23 32.0
	5	3 47.6	253 38.6	N 22 8.6	S 6	5 40	6 16	17 59	18 35	Kaus Aust	83 41.5	S 34 22.4
	6	18 50.1	268 38.6	N 22 8.2	S 7	5 42	6 17	17 58	18 33	Kochab	137 19.7	N 74 5.9
	7	33 52.5	283 38.5	N 22 7.9	S 8	5 43	6 19	17 56	18 31	Markab	13 36.7	N 15 17.4
	8	48 55.0	298 38.4	N 22 7.6	S 9	5 45	6 21	17 54	18 30	Menkent	148 5.6	S 36 26.7
	9	63 57.5	313 38.3	N 22 7.3	S 10	5 46	6 22	17 53	18 28	Miaplacidu	221 39.9	S 69 47.2
	10	78 59.9	328 38.2	N 22 6.9	S 11	5 48	6 24	17 51	18 27	Mirfak	308 38.6	N 49 54.6
	11	94 2.4	343 38.1	N 22 6.6	S 12	5 50	6 26	17 49	18 25	Nunki	75 56.2	S 26 16.4
	12	109 4.9	358 38.1	N 22 6.3	S 13	5 51	6 27	17 48	18 24	Peacock	53 16.5	S 56 40.8
	13	124 7.3	13 38.0	N 22 5.9	S 14	5 53	6 29	17 46	18 22	Pollux	243 26.2	N 27 59.2
	14	139 9.8	28 37.9	N 22 5.6	S 15	5 54	6 31	17 44	18 21	Procyon	244 58.4	N 5 11.2
	15	154 12.3	43 37.8	N 22 5.3	S 20	6 2	6 40	17 35	18 13	Rasalhague	96 4.9	N 12 33.3
	16	169 14.7	58 37.7	N 22 4.9	S 25	6 10	6 49	17 26	18 5	Regulus	207 42.2	N 11 53.5
	17	184 17.2	73 37.6	N 22 4.6	S 30	6 18	6 59	17 15	17 56	Rigel	281 11.0	S 8 11.2
	18	199 19.6	88 37.5	N 22 4.3	S 35	6 27	7 11	17 4	17 48	Rigel Kent	139 47.5	S 60 54.3
	19	214 22.1	103 37.5	N 22 3.9	S 40	6 37	7 24	16 51	17 38	Schedar	349 38.7	N 56 37.1
	20	229 24.6	118 37.4	N 22 3.6	S 45	6 48	7 40	16 35	17 27	Shaula	96 19.6	S 37 6.7
	21	244 27.0	133 37.3	N 22 3.3	S 50	7 1	7 59	16 16	17 14	Sirius	258 32.7	S 16 44.1
	22	259 29.5	148 37.2	N 22 2.9	S 55	7 16	8 24	15 51	16 59	Spica	158 29.7	S 11 14.5
23	274 32.0	163 37.1	N 22 2.6	S 60	7 35	8 59	15 16	16 40	Vega	80 37.6	N 38 48.1	
Día	Sol				Luna							
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día	Porcentaje de iluminación		Fase				
10	m s	m s		h m								
11	5 15	5 19	0.3	12 5	23.1	37						
	5 24	5 28	0.3	12 5	24.2	26						

Tabla G. Domingo 12 de julio – lunes 13 de julio de 2015.


Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
12	h	° /	° /	° /	°	h m	h m	h m	h m	h m	h m	h m	° /	° /	
	0	289 34.4	178 37.1	N 22 2.2	N 60	—	2 59	21 11	—	Achernar	335 26.0	S 57 9.2			
	1	304 36.9	193 37.0	N 22 1.9	N 55	2 5	3 38	20 32	22 5	Acruz	173 7.7	S 63 11.4			
	2	319 39.4	208 36.9	N 22 1.6	N 50	2 54	4 5	20 6	21 16	Adhara	255 11.8	S 28 59.8			
	3	334 41.8	223 36.8	N 22 1.2	N 45	3 26	4 25	19 45	20 44	Aldebaran	290 48.0	N 16 32.2			
	4	349 44.3	238 36.7	N 22 0.9	N 40	3 50	4 46	19 29	20 21	Alioth	166 19.7	N 55 52.9			
	5	4 46.8	253 36.6	N 22 0.5	N 35	4 9	5 0	19 15	20 2	Alkaid	152 57.8	N 49 14.5			
	6	19 49.2	268 36.6	N 22 0.2	N 30	4 25	5 12	19 3	19 46	Alnair	27 41.7	S 46 52.8			
	7	34 51.7	283 36.5	N 21 59.8	N 25	4 42	5 22	18 53	19 33	Alnilam	275 45.2	S 1 11.7			
	8	49 54.1	298 36.4	N 21 59.5	N 20	4 54	5 32	18 43	19 21	Alphard	217 55.0	S 8 43.7			
	9	64 56.6	313 36.3	N 21 59.2	N 15	5 4	5 41	18 34	19 11	Alpheratz	357 41.9	N 29 10.5			
	10	79 59.1	328 36.2	N 21 58.8	N 14	5 6	5 43	18 32	19 9	Altair	62 6.6	N 8 54.7			
	11	95 1.5	343 36.2	N 21 58.5	N 13	5 8	5 45	18 30	19 7	Antares	112 24.2	S 26 27.8			
	12	110 4.0	358 36.1	N 21 58.1	N 12	5 10	5 46	18 29	19 5	Arcturus	145 54.1	N 19 6.9			
	13	125 6.5	13 36.0	N 21 57.8	N 11	5 12	5 48	18 27	19 3	Atria	107 24.2	S 69 3.3			
	14	140 8.9	28 35.9	N 21 57.4	N 10	5 14	5 50	18 25	19 2	Avior	234 18.0	S 59 33.8			
	15	155 11.4	43 35.8	N 21 57.1	N 9	5 15	5 51	18 24	19 0	Bellatrix	278 30.8	N 6 21.6			
	16	170 13.9	58 35.8	N 21 56.7	N 8	5 17	5 53	18 22	18 58	Betelgeuse	271 0.1	N 7 24.4			
	17	185 16.3	73 35.7	N 21 56.4	N 7	5 19	5 55	18 20	18 56	Canopus	263 56.1	S 52 42.4			
	18	200 18.8	88 35.6	N 21 56.0	N 6	5 21	5 56	18 19	18 55	Capella	280 32.8	N 46 0.6			
	19	215 21.2	103 35.5	N 21 55.7	N 5	5 22	5 58	18 17	18 53	Deneb	49 30.0	N 45 20.3			
	20	230 23.7	118 35.4	N 21 55.3	N 4	5 24	6 0	18 16	18 51	Denebola	182 32.2	N 14 29.2			
	21	245 26.2	133 35.4	N 21 55.0	N 3	5 26	6 1	18 14	18 49	Dubhe	193 50.5	N 61 40.2			
22	260 28.6	148 35.3	N 21 54.6	N 2	5 27	6 3	18 12	18 48	Elnath	278 11.2	N 28 37.0				
23	275 31.1	163 35.2	N 21 54.3	N 1	5 29	6 4	18 11	18 46	Eltanin	90 45.0	N 51 29.5				
13	0	290 33.6	178 35.1	N 21 53.9	S 1	5 32	6 8	18 8	18 43	Enif	33 45.4	N 9 56.9			
	1	305 36.0	193 35.1	N 21 53.6	S 2	5 34	6 9	18 6	18 41	Formalhaut	15 22.3	S 29 32.1			
	2	320 38.5	208 35.0	N 21 53.2	S 3	5 36	6 11	18 4	18 40	Gacrux	171 59.3	S 57 12.2			
	3	335 41.0	223 34.9	N 21 52.8	S 4	5 37	6 12	18 3	18 38	Hadara	148 45.6	S 60 27.0			
	4	350 43.4	238 34.8	N 21 52.5	S 5	5 39	6 14	18 1	18 37	Hamal	327 59.3	N 23 32.0			
	5	5 45.9	253 34.7	N 21 52.1	S 6	5 40	6 16	18 0	18 35	Kaus Aust	83 41.5	S 34 22.4			
	6	20 48.4	268 34.7	N 21 51.8	S 7	5 42	6 17	17 58	18 33	Kochab	137 19.8	N 74 5.9			
	7	35 50.8	283 34.6	N 21 51.4	S 8	5 43	6 19	17 56	18 32	Markab	13 36.7	N 15 17.4			
	8	50 53.3	298 34.5	N 21 51.1	S 9	5 45	6 21	17 54	18 30	Menkent	148 5.6	S 36 26.7			
	9	65 55.7	313 34.4	N 21 50.7	S 10	5 47	6 22	17 53	18 29	Miaplacidu	221 39.9	S 69 47.2			
	10	80 58.2	328 34.4	N 21 50.3	S 11	5 48	6 24	17 51	18 27	Mirfak	308 38.5	N 49 54.6			
	11	96 0.7	343 34.3	N 21 50.0	S 12	5 50	6 26	17 50	18 26	Nunki	75 56.2	S 26 16.4			
	12	111 3.1	358 34.2	N 21 49.6	S 13	5 51	6 27	17 48	18 24	Peacock	53 16.5	S 56 40.8			
	13	126 5.6	13 34.1	N 21 49.2	S 14	5 53	6 29	17 46	18 23	Pollux	243 26.2	N 27 59.2			
	14	141 8.1	28 34.1	N 21 48.9	S 15	5 54	6 31	17 45	18 21	Procyon	244 58.4	N 5 11.2			
	15	156 10.5	43 34.0	N 21 48.5	S 20	6 2	6 39	17 36	18 13	Rasalhague	96 4.9	N 12 33.3			
	16	171 13.0	58 33.9	N 21 48.1	S 25	6 10	6 49	17 27	18 6	Regulus	207 42.2	N 11 53.4			
	17	186 15.5	73 33.8	N 21 47.8	S 30	6 18	6 59	17 16	17 57	Rigel	281 11.0	S 8 11.2			
	18	201 17.9	88 33.8	N 21 47.4	S 35	6 27	7 10	17 5	17 49	Rigel Kent	139 47.5	S 60 54.3			
	19	216 20.4	103 33.7	N 21 47.1	S 40	6 36	7 23	16 52	17 39	Schedar	349 38.7	N 56 37.1			
	20	231 22.9	118 33.6	N 21 46.7	S 45	6 47	7 39	16 37	17 28	Shaula	96 19.6	S 37 6.7			
	21	246 25.3	133 33.5	N 21 46.3	S 50	6 59	7 58	16 18	17 16	Sirius	258 32.7	S 16 44.1			
	22	261 27.8	148 33.5	N 21 45.9	S 55	7 14	8 22	15 54	17 1	Spica	158 29.7	S 11 14.5			
23	276 30.2	163 33.4	N 21 45.6	S 60	7 33	8 56	15 20	16 42	Vega	80 37.6	N 38 48.1				
Día	Sol						Luna								
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase						
12	m s	m s		h m											
13	5 32	5 36	0.3	12 6		25.2	17								
13	5 39	5 43	0.4	12 6		26.3	10								

Tabla G. Martes 14 de julio – miércoles 15 de julio de 2015.


Día	TU	Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.						Nombre	SHA	Dec.
14	h	° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m		° / ' / "	° / ' / "
	0	291 32.7	178 33.3	N 21 45.2	N 60	—	3 3	21 7	—	Achernar	335 25.9	S 57 9.2
	1	306 35.2	193 33.3	N 21 44.8	N 55	2 9	3 41	20 30	22 1	Acrux	173 7.7	S 63 11.4
	2	321 37.6	208 33.2	N 21 44.5	N 50	2 57	4 7	20 4	21 14	Adhara	255 11.8	S 28 59.7
	3	336 40.1	223 33.1	N 21 44.1	N 45	3 29	4 27	19 44	20 42	Aldebaran	290 48.0	N 16 32.2
	4	351 42.6	238 33.0	N 21 43.7	N 40	3 52	4 47	19 28	20 19	Alioth	166 19.7	N 55 52.9
	5	6 45.0	253 33.0	N 21 43.3	N 35	4 10	5 1	19 14	20 1	Alkaid	152 57.8	N 49 14.5
	6	21 47.5	268 32.9	N 21 43.0	N 30	4 26	5 13	19 3	19 46	Alnair	27 41.7	S 46 52.8
	7	36 50.0	283 32.8	N 21 42.6	N 25	4 43	5 23	18 52	19 33	Alnilam	275 45.2	S 1 11.7
	8	51 52.4	298 32.8	N 21 42.2	N 20	4 54	5 33	18 43	19 21	Alphard	217 55.0	S 8 43.7
	9	66 54.9	313 32.7	N 21 41.8	N 15	5 5	5 42	18 34	19 11	Alpheratz	357 41.9	N 29 10.5
	10	81 57.4	328 32.6	N 21 41.5	N 14	5 7	5 44	18 32	19 9	Altair	62 6.6	N 8 54.7
	11	96 59.8	343 32.5	N 21 41.1	N 13	5 9	5 45	18 30	19 7	Antares	112 24.2	S 26 27.8
	12	112 2.3	358 32.5	N 21 40.7	N 12	5 10	5 47	18 29	19 5	Arcturus	145 54.1	N 19 6.9
	13	127 4.7	13 32.4	N 21 40.3	N 11	5 12	5 49	18 27	19 3	Atria	107 24.2	S 69 3.3
	14	142 7.2	28 32.3	N 21 40.0	N 10	5 14	5 50	18 25	19 1	Avior	234 18.0	S 59 33.8
	15	157 9.7	43 32.3	N 21 39.6	N 9	5 16	5 52	18 24	19 0	Bellatrix	278 30.8	N 6 21.6
	16	172 12.1	58 32.2	N 21 39.2	N 8	5 18	5 54	18 22	18 58	Betelgeuse	271 0.1	N 7 24.4
	17	187 14.6	73 32.1	N 21 38.8	N 7	5 19	5 55	18 21	18 56	Canopus	263 56.1	S 52 42.3
	18	202 17.1	88 32.1	N 21 38.4	N 6	5 21	5 57	18 19	18 54	Capella	280 32.8	N 46 0.6
	19	217 19.5	103 32.0	N 21 38.1	N 5	5 23	5 58	18 17	18 53	Deneb	49 30.0	N 45 20.3
	20	232 22.0	118 31.9	N 21 37.7	N 4	5 25	6 0	18 16	18 51	Denebola	182 32.2	N 14 29.2
	21	247 24.5	133 31.8	N 21 37.3	N 3	5 26	6 2	18 14	18 49	Dubhe	193 50.5	N 61 40.2
22	262 26.9	148 31.8	N 21 36.9	N 2	5 28	6 3	18 13	18 48	Elnath	278 11.2	N 28 37.0	
23	277 29.4	163 31.7	N 21 36.5	N 1	5 29	6 5	18 11	18 46	Eltanin	90 45.0	N 51 29.6	
15	0	292 31.8	178 31.6	N 21 36.1	S 1	5 33	6 8	18 8	18 43	Enif	33 45.4	N 9 56.9
	1	307 34.3	193 31.6	N 21 35.7	S 2	5 34	6 9	18 6	18 41	Formalhaut	15 22.3	S 29 32.1
	2	322 36.8	208 31.5	N 21 35.4	S 3	5 36	6 11	18 5	18 40	Gacrux	171 59.3	S 57 12.2
	3	337 39.2	223 31.4	N 21 35.0	S 4	5 37	6 13	18 3	18 38	Hadar	148 45.6	S 60 27.0
	4	352 41.7	238 31.4	N 21 34.6	S 5	5 39	6 14	18 2	18 37	Hamal	327 59.2	N 23 32.0
	5	7 44.2	253 31.3	N 21 34.2	S 6	5 40	6 16	18 0	18 35	Kaus Aust	83 41.5	S 34 22.4
	6	22 46.6	268 31.2	N 21 33.8	S 7	5 42	6 17	17 58	18 34	Kochab	137 19.8	N 74 5.9
	7	37 49.1	283 31.2	N 21 33.4	S 8	5 44	6 19	17 57	18 32	Markab	13 36.7	N 15 17.4
	8	52 51.6	298 31.1	N 21 33.0	S 9	5 45	6 21	17 55	18 30	Menkent	148 5.6	S 36 26.7
	9	67 54.0	313 31.0	N 21 32.6	S 10	5 47	6 22	17 54	18 29	Miaplacidu	221 39.9	S 69 47.2
	10	82 56.5	328 31.0	N 21 32.2	S 11	5 48	6 24	17 52	18 28	Mirfak	308 38.5	N 49 54.6
	11	97 59.0	343 30.9	N 21 31.8	S 12	5 50	6 25	17 50	18 26	Nunki	75 56.2	S 26 16.4
	12	113 1.4	358 30.8	N 21 31.5	S 13	5 51	6 27	17 49	18 25	Peacock	53 16.5	S 56 40.8
	13	128 3.9	13 30.8	N 21 31.1	S 14	5 53	6 29	17 47	18 23	Pollux	243 26.2	N 27 59.2
	14	143 6.3	28 30.7	N 21 30.7	S 15	5 54	6 30	17 45	18 22	Procyon	244 58.4	N 5 11.2
	15	158 8.8	43 30.7	N 21 30.3	S 20	6 2	6 39	17 37	18 14	Rasalhague	96 4.9	N 12 33.3
	16	173 11.3	58 30.6	N 21 29.9	S 25	6 9	6 48	17 27	18 6	Regulus	207 42.2	N 11 53.4
	17	188 13.7	73 30.5	N 21 29.5	S 30	6 18	6 58	17 17	17 58	Rigel	281 11.0	S 8 11.2
	18	203 16.2	88 30.5	N 21 29.1	S 35	6 26	7 10	17 6	17 50	Rigel Kent	139 47.5	S 60 54.3
	19	218 18.7	103 30.4	N 21 28.7	S 40	6 36	7 22	16 54	17 40	Schedar	349 38.7	N 56 37.1
	20	233 21.1	118 30.3	N 21 28.3	S 45	6 46	7 38	16 38	17 30	Shaula	96 19.6	S 37 6.7
	21	248 23.6	133 30.3	N 21 27.9	S 50	6 58	7 56	16 20	17 18	Sirius	258 32.7	S 16 44.1
	22	263 26.1	148 30.2	N 21 27.5	S 55	7 13	8 20	15 56	17 3	Spica	158 29.7	S 11 14.5
23	278 28.5	163 30.1	N 21 27.1	S 60	7 31	8 53	15 23	16 45	Vega	80 37.6	N 38 48.1	
Día	Sol				Luna							
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día	Porcentaje de iluminación		Fase				
14	m s	m s		h m								
15	5 47	5 50	0.4	12 6	27.3	4						
	5 53	5 56	0.4	12 6	28.4	1						

Tabla G. Jueves 16 de julio – viernes 17 de julio de 2015.

Día	TU	Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.						Nombre	SHA	Dec.
	h	° /	° /	° /	°	h m	h m	h m	h m		° /	° /
16	0	293 31.0	178 30.1	N 21 26.7	N 60	—	3 7	21 4	—	Achernar	335 25.9	S 57 9.2
	1	308 33.5	193 30.0	N 21 26.3	N 55	2 14	3 44	20 28	21 57	Acruz	173 7.7	S 63 11.4
	2	323 35.9	208 30.0	N 21 25.9	N 50	3 0	4 9	20 2	21 11	Adhara	255 11.8	S 28 59.7
	3	338 38.4	223 29.9	N 21 25.5	N 45	3 31	4 33	19 42	20 40	Aldebaran	290 48.0	N 16 32.3
	4	353 40.8	238 29.8	N 21 25.1	N 40	3 54	4 49	19 27	20 18	Alioth	166 19.7	N 55 52.9
	5	8 43.3	253 29.8	N 21 24.7	N 35	4 12	5 2	19 13	20 0	Alkaid	152 57.8	N 49 14.5
	6	23 45.8	268 29.7	N 21 24.3	N 30	4 31	5 14	19 2	19 45	Alnair	27 41.7	S 46 52.8
	7	38 48.2	283 29.6	N 21 23.9	N 25	4 44	5 24	18 52	19 32	Alnilam	275 45.2	S 1 11.7
	8	53 50.7	298 29.6	N 21 23.5	N 20	4 55	5 34	18 42	19 21	Alphard	217 55.0	S 8 43.7
	9	68 53.2	313 29.5	N 21 23.0	N 15	5 5	5 42	18 34	19 10	Alpheratz	357 41.9	N 29 10.5
	10	83 55.6	328 29.5	N 21 22.6	N 14	5 7	5 44	18 32	19 9	Altair	62 6.6	N 8 54.7
	11	98 58.1	343 29.4	N 21 22.2	N 13	5 9	5 46	18 30	19 7	Antares	112 24.2	S 26 27.8
	12	114 0.6	358 29.3	N 21 21.8	N 12	5 11	5 47	18 29	19 5	Arcturus	145 54.1	N 19 6.9
	13	129 3.0	13 29.3	N 21 21.4	N 11	5 13	5 49	18 27	19 3	Atria	107 24.2	S 69 3.3
	14	144 5.5	28 29.2	N 21 21.0	N 10	5 15	5 51	18 25	19 1	Avior	234 18.0	S 59 33.8
	15	159 7.9	43 29.2	N 21 20.6	N 9	5 16	5 52	18 24	19 0	Bellatrix	278 30.8	N 6 21.6
	16	174 10.4	58 29.1	N 21 20.2	N 8	5 18	5 54	18 22	18 58	Betelgeuse	271 0.1	N 7 24.4
	17	189 12.9	73 29.1	N 21 19.8	N 7	5 20	5 56	18 20	18 56	Canopus	263 56.0	S 52 42.3
	18	204 15.3	88 29.0	N 21 19.4	N 6	5 22	5 57	18 19	18 54	Capella	280 32.8	N 46 0.6
	19	219 17.8	103 28.9	N 21 18.9	N 5	5 23	5 59	18 17	18 53	Deneb	49 30.0	N 45 20.3
	20	234 20.3	118 28.9	N 21 18.5	N 4	5 25	6 0	18 16	18 51	Denebola	182 32.2	N 14 29.2
	21	249 22.7	133 28.8	N 21 18.1	N 3	5 27	6 2	18 14	18 49	Dubhe	193 50.5	N 61 40.2
	22	264 25.2	148 28.8	N 21 17.7	N 2	5 28	6 3	18 13	18 48	Elnath	278 11.1	N 28 37.0
23	279 27.7	163 28.7	N 21 17.3	N 1	5 30	6 5	18 11	18 46	Eltanin	90 45.0	N 51 29.6	
				0	5 31	6 6	18 10	18 45				
17	0	294 30.1	178 28.6	N 21 16.9	S 1	5 33	6 8	18 43	18 43	Enif	33 45.4	N 9 56.9
	1	309 32.6	193 28.6	N 21 16.5	S 2	5 34	6 10	18 6	18 42	Formalhaut	15 22.3	S 29 32.1
	2	324 35.1	208 28.5	N 21 16.0	S 3	5 36	6 11	18 5	18 40	Gacrux	171 59.3	S 57 12.2
	3	339 37.5	223 28.5	N 21 15.6	S 4	5 38	6 13	18 3	18 39	Hadar	148 45.6	S 60 27.0
	4	354 40.0	238 28.4	N 21 15.2	S 5	5 39	6 14	18 2	18 37	Hamal	327 59.2	N 23 32.0
	5	9 42.4	253 28.4	N 21 14.8	S 6	5 41	6 16	18 0	18 35	Kaus Aust	83 41.5	S 34 22.4
	6	24 44.9	268 28.3	N 21 14.4	S 7	5 42	6 17	17 59	18 34	Kochab	137 19.8	N 74 5.9
	7	39 47.4	283 28.3	N 21 13.9	S 8	5 44	6 19	17 57	18 32	Markab	13 36.7	N 15 17.4
	8	54 49.8	298 28.2	N 21 13.5	S 9	5 45	6 21	17 55	18 31	Menkent	148 5.6	S 36 26.7
	9	69 52.3	313 28.1	N 21 13.1	S 10	5 47	6 22	17 54	18 30	Miaplacidu	221 40.0	S 69 47.1
	10	84 54.8	328 28.1	N 21 12.7	S 11	5 48	6 24	17 52	18 28	Mirfak	308 38.5	N 49 54.6
	11	99 57.2	343 28.0	N 21 12.3	S 12	5 50	6 25	17 51	18 27	Nunki	75 56.2	S 26 16.4
	12	114 59.7	358 28.0	N 21 11.8	S 13	5 51	6 27	17 49	18 25	Peacock	53 16.5	S 56 40.8
	13	130 2.2	13 27.9	N 21 11.4	S 14	5 53	6 29	17 48	18 24	Pollux	243 26.2	N 27 59.2
	14	145 4.6	28 27.9	N 21 11.0	S 15	5 54	6 30	17 46	18 22	Procyon	244 58.4	N 5 11.2
	15	160 7.1	43 27.8	N 21 10.6	S 20	6 1	6 39	17 37	18 15	Rasalhague	96 4.9	N 12 33.3
	16	175 9.6	58 27.8	N 21 10.1	S 25	6 9	6 48	17 28	18 7	Regulus	207 42.2	N 11 53.5
	17	190 12.0	73 27.7	N 21 9.7	S 30	6 17	6 58	17 19	17 59	Rigel	281 11.0	S 8 11.2
	18	205 14.5	88 27.7	N 21 9.3	S 35	6 25	7 9	17 8	17 51	Rigel Kent	139 47.5	S 60 54.3
	19	220 16.9	103 27.6	N 21 8.8	S 40	6 35	7 21	16 55	17 42	Schedar	349 38.6	N 56 37.1
	20	235 19.4	118 27.5	N 21 8.4	S 45	6 45	7 36	16 40	17 32	Shaula	96 19.6	S 37 6.7
	21	250 21.9	133 27.5	N 21 8.0	S 50	6 57	7 54	16 22	17 20	Sirius	258 32.7	S 16 44.1
	22	265 24.3	148 27.4	N 21 7.6	S 55	7 11	8 18	15 59	17 6	Spica	158 29.7	S 11 14.5
23	280 26.8	163 27.4	N 21 7.1	S 60	7 29	8 50	15 27	16 48	Vega	80 37.6	N 38 48.1	
Día	Sol				Luna							
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día	Porcentaje de iluminación	Fase					
	m s	m s		h m								
16	6 0	6 2	0.4	12 6	29.4	0						
17	6 5	6 8	0.4	12 6	0.8	1						

Tabla G. Sábado 18 de julio – domingo 19 de julio de 2015.


Día	TU	Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		Aries	Sol							Nombre	SHA	Dec.
		GHA	GHA	Dec.		h m	h m	h m	h m		° / ' / "	° / ' / "
18	h	° / ' / "	° / ' / "	° / ' / "	°							
	0	295 29.3	178 27.3	N 21 6.7	N 60	0 21	3 11	21 0	23 36	Achernar	335 25.9	S 57 9.2
	1	310 31.7	193 27.3	N 21 6.3	N 55	2 18	3 47	20 25	21 52	Acrux	173 7.7	S 63 11.4
	2	325 34.2	208 27.2	N 21 5.8	N 50	3 3	4 12	20 0	21 8	Adhara	255 11.8	S 28 59.7
	3	340 36.7	223 27.2	N 21 5.4	N 45	3 33	4 35	19 41	20 38	Aldebaran	290 48.0	N 16 32.3
	4	355 39.1	238 27.1	N 21 5.0	N 40	3 56	4 51	19 25	20 16	Alioth	166 19.7	N 55 52.9
	5	10 41.6	253 27.1	N 21 4.5	N 35	4 17	5 4	19 12	19 58	Alkaid	152 57.8	N 49 14.5
	6	25 44.0	268 27.0	N 21 4.1	N 30	4 32	5 15	19 1	19 44	Alnair	27 41.7	S 46 52.8
	7	40 46.5	283 27.0	N 21 3.7	N 25	4 45	5 25	18 51	19 31	Alnilam	275 45.2	S 1 11.7
	8	55 49.0	298 26.9	N 21 3.2	N 20	4 56	5 34	18 42	19 20	Alphard	217 55.0	S 8 43.7
	9	70 51.4	313 26.9	N 21 2.8	N 15	5 6	5 43	18 33	19 10	Alpheratz	357 41.9	N 29 10.5
	10	85 53.9	328 26.8	N 21 2.4	N 14	5 8	5 45	18 32	19 8	Altair	62 6.6	N 8 54.7
	11	100 56.4	343 26.8	N 21 1.9	N 13	5 10	5 46	18 30	19 6	Antares	112 24.2	S 26 27.8
	12	115 58.8	358 26.7	N 21 1.5	N 12	5 12	5 48	18 28	19 5	Arcturus	145 54.1	N 19 6.9
	13	131 1.3	13 26.7	N 21 1.0	N 11	5 13	5 50	18 27	19 3	Atria	107 24.3	S 69 3.3
	14	146 3.8	28 26.6	N 21 0.6	N 10	5 15	5 51	18 25	19 1	Avior	234 18.0	S 59 33.8
	15	161 6.2	43 26.6	N 21 0.2	N 9	5 17	5 53	18 24	18 59	Bellatrix	278 30.8	N 6 21.6
	16	176 8.7	58 26.5	N 20 59.7	N 8	5 19	5 54	18 22	18 58	Betelgeuse	271 0.1	N 7 24.4
	17	191 11.2	73 26.5	N 20 59.3	N 7	5 20	5 56	18 20	18 56	Canopus	263 56.0	S 52 42.3
	18	206 13.6	88 26.4	N 20 58.8	N 6	5 22	5 57	18 19	18 54	Capella	280 32.7	N 46 0.6
	19	221 16.1	103 26.4	N 20 58.4	N 5	5 24	5 59	18 17	18 53	Deneb	49 30.0	N 45 20.3
	20	236 18.5	118 26.4	N 20 58.0	N 4	5 25	6 1	18 16	18 51	Denebola	182 32.3	N 14 29.2
	21	251 21.0	133 26.3	N 20 57.5	N 3	5 27	6 2	18 14	18 49	Dubhe	193 50.5	N 61 40.2
22	266 23.5	148 26.3	N 20 57.1	N 2	5 28	6 4	18 13	18 48	Elnath	278 11.1	N 28 37.0	
23	281 25.9	163 26.2	N 20 56.6	N 1	5 30	6 5	18 11	18 46	Eltanin	90 45.0	N 51 29.6	
					0	5 32	6 7	18 10	18 45			
19	0	296 28.4	178 26.2	N 20 56.2	S 1	5 33	6 8	18 8	18 43	Enif	33 45.4	N 9 56.9
	1	311 30.9	193 26.1	N 20 55.7	S 2	5 35	6 10	18 7	18 42	Formalhaut	15 22.3	S 29 32.1
	2	326 33.3	208 26.1	N 20 55.3	S 3	5 36	6 11	18 5	18 40	Gacrux	171 59.3	S 57 12.2
	3	341 35.8	223 26.0	N 20 54.8	S 4	5 38	6 13	18 4	18 39	Hadar	148 45.6	S 60 27.0
	4	356 38.3	238 26.0	N 20 54.4	S 5	5 39	6 14	18 2	18 37	Hamal	327 59.2	N 23 32.0
	5	11 40.7	253 25.9	N 20 53.9	S 6	5 41	6 16	18 1	18 36	Kaus Aust	83 41.5	S 34 22.4
	6	26 43.2	268 25.9	N 20 53.5	S 7	5 42	6 17	17 59	18 34	Kochab	137 19.9	N 74 5.9
	7	41 45.7	283 25.9	N 20 53.0	S 8	5 44	6 19	17 57	18 33	Markab	13 36.7	N 15 17.4
	8	56 48.1	298 25.8	N 20 52.6	S 9	5 45	6 21	17 56	18 31	Menkent	148 5.6	S 36 26.7
	9	71 50.6	313 25.8	N 20 52.1	S 10	5 47	6 22	17 54	18 30	Miaplacidu	221 40.0	S 69 47.1
	10	86 53.0	328 25.7	N 20 51.7	S 11	5 48	6 24	17 53	18 28	Mirfak	308 38.5	N 49 54.6
	11	101 55.5	343 25.7	N 20 51.2	S 12	5 49	6 25	17 51	18 27	Nunki	75 56.2	S 26 16.4
	12	116 58.0	358 25.6	N 20 50.8	S 13	5 51	6 27	17 50	18 26	Peacock	53 16.5	S 56 40.8
	13	132 0.4	13 25.6	N 20 50.3	S 14	5 52	6 28	17 48	18 24	Pollux	243 26.2	N 27 59.2
	14	147 2.9	28 25.6	N 20 49.9	S 15	5 54	6 30	17 46	18 23	Procyon	244 58.4	N 5 11.2
	15	162 5.4	43 25.5	N 20 49.4	S 20	6 1	6 38	17 38	18 15	Rasalhague	96 4.9	N 12 33.3
	16	177 7.8	58 25.5	N 20 49.0	S 25	6 9	6 47	17 29	18 8	Regulus	207 42.2	N 11 53.5
	17	192 10.3	73 25.4	N 20 48.5	S 30	6 16	6 57	17 20	18 0	Rigel	281 11.0	S 8 11.1
	18	207 12.8	88 25.4	N 20 48.0	S 35	6 25	7 8	17 9	17 52	Rigel Kent	139 47.5	S 60 54.3
	19	222 15.2	103 25.3	N 20 47.6	S 40	6 33	7 20	16 57	17 43	Schedar	349 38.6	N 56 37.1
	20	237 17.7	118 25.3	N 20 47.1	S 45	6 43	7 35	16 42	17 33	Shaula	96 19.6	S 37 6.7
	21	252 20.1	133 25.3	N 20 46.7	S 50	6 55	7 52	16 24	17 22	Sirius	258 32.6	S 16 44.1
	22	267 22.6	148 25.2	N 20 46.2	S 55	7 9	8 15	16 2	17 8	Spica	158 29.7	S 11 14.5
23	282 25.1	163 25.2	N 20 45.8	S 60	7 26	8 46	15 30	16 51	Vega	80 37.6	N 38 48.1	
		Sol						Luna				
Día		Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase		
		m s	m s		h m							
18		6 10	6 13	0.4	12 6		1.8	3				
19		6 15	6 17	0.5	12 6		2.7	8				

Tabla G. Lunes 20 de julio – martes 21 de julio de 2015.


Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
	h	° /	° /	° /	°	h m	h m	h m	h m	h m	h m	° /	° /	° /	
20	0	297 27.5	178 25.1	N 20 45.3	N 60	0 47	3 15	20 56	23 18	Achernar	335 25.9	S 57 9.2			
	1	312 30.0	193 25.1	N 20 44.8	N 55	2 23	3 50	20 22	21 48	Acruz	173 7.8	S 63 11.4			
	2	327 32.5	208 25.1	N 20 44.4	N 50	3 6	4 18	19 58	21 5	Adhara	255 11.8	S 28 59.7			
	3	342 34.9	223 25.0	N 20 43.9	N 45	3 36	4 37	19 39	20 36	Aldebaran	290 48.0	N 16 32.3			
	4	357 37.4	238 25.0	N 20 43.4	N 40	3 58	4 52	19 24	20 14	Alioth	166 19.7	N 55 52.9			
	5	12 39.9	253 24.9	N 20 43.0	N 35	4 19	5 5	19 11	19 57	Alkaid	152 57.8	N 49 14.5			
	6	27 42.3	268 24.9	N 20 42.5	N 30	4 34	5 16	19 0	19 43	Alnair	27 41.7	S 46 52.8			
	7	42 44.8	283 24.9	N 20 42.0	N 25	4 46	5 26	18 50	19 30	Alnilam	275 45.2	S 1 11.7			
	8	57 47.3	298 24.8	N 20 41.6	N 20	4 57	5 35	18 41	19 19	Alphard	217 55.0	S 8 43.7			
	9	72 49.7	313 24.8	N 20 41.1	N 15	5 7	5 44	18 33	19 10	Alpheratz	357 41.8	N 29 10.5			
	10	87 52.2	328 24.7	N 20 40.7	N 14	5 9	5 45	18 31	19 8	Altair	62 6.6	N 8 54.7			
	11	102 54.6	343 24.7	N 20 40.2	N 13	5 10	5 47	18 30	19 6	Antares	112 24.2	S 26 27.8			
	12	117 57.1	358 24.7	N 20 39.7	N 12	5 12	5 48	18 28	19 4	Arcturus	145 54.1	N 19 6.9			
	13	132 59.6	13 24.6	N 20 39.2	N 11	5 14	5 50	18 26	19 2	Atria	107 24.3	S 69 3.3			
	14	148 2.0	28 24.6	N 20 38.8	N 10	5 16	5 52	18 25	19 1	Avior	234 18.0	S 59 33.8			
	15	163 4.5	43 24.6	N 20 38.3	N 9	5 17	5 53	18 23	18 59	Bellatrix	278 30.7	N 6 21.6			
	16	178 7.0	58 24.5	N 20 37.8	N 8	5 19	5 55	18 22	18 57	Betelgeuse	271 0.1	N 7 24.4			
	17	193 9.4	73 24.5	N 20 37.4	N 7	5 21	5 56	18 20	18 56	Canopus	263 56.0	S 52 42.3			
	18	208 11.9	88 24.5	N 20 36.9	N 6	5 22	5 58	18 19	18 54	Capella	280 32.7	N 46 0.6			
	19	223 14.4	103 24.4	N 20 36.4	N 5	5 24	5 59	18 17	18 53	Deneb	49 30.0	N 45 20.3			
	20	238 16.8	118 24.4	N 20 36.0	N 4	5 26	6 1	18 16	18 51	Denebola	182 32.3	N 14 29.2			
	21	253 19.3	133 24.4	N 20 35.5	N 3	5 27	6 2	18 14	18 49	Dubhe	193 50.5	N 61 40.2			
	22	268 21.8	148 24.3	N 20 35.0	N 2	5 29	6 4	18 13	18 48	Elnath	278 11.1	N 28 37.0			
23	283 24.2	163 24.3	N 20 34.5	N 1	5 30	6 5	18 11	18 46	Eltanin	90 45.0	N 51 29.6				
				0	5 32	6 7	18 10	18 45							
21	0	298 26.7	178 24.2	N 20 34.1	S 1	5 33	6 8	18 8	18 43	Enif	33 45.4	N 9 56.9			
	1	313 29.1	193 24.2	N 20 33.6	S 2	5 35	6 10	18 7	18 42	Formalhaut	15 22.3	S 29 32.1			
	2	328 31.6	208 24.2	N 20 33.1	S 3	5 36	6 11	18 5	18 40	Gacrux	171 59.4	S 57 12.2			
	3	343 34.1	223 24.1	N 20 32.6	S 4	5 38	6 13	18 4	18 39	Hadar	148 45.6	S 60 27.0			
	4	358 36.5	238 24.1	N 20 32.2	S 5	5 39	6 14	18 2	18 37	Hamal	327 59.2	N 23 32.0			
	5	13 39.0	253 24.1	N 20 31.7	S 6	5 41	6 16	18 1	18 36	Kaus Aust	83 41.5	S 34 22.4			
	6	28 41.5	268 24.0	N 20 31.2	S 7	5 42	6 17	17 59	18 34	Kochab	137 19.9	N 74 5.9			
	7	43 43.9	283 24.0	N 20 30.7	S 8	5 44	6 19	17 58	18 33	Markab	13 36.7	N 15 17.4			
	8	58 46.4	298 24.0	N 20 30.2	S 9	5 45	6 21	17 56	18 31	Menkent	148 5.6	S 36 26.7			
	9	73 48.9	313 24.0	N 20 29.8	S 10	5 46	6 22	17 55	18 30	Miaplacidu	221 40.0	S 69 47.1			
	10	88 51.3	328 23.9	N 20 29.3	S 11	5 48	6 23	17 53	18 29	Mirfak	308 38.4	N 49 54.6			
	11	103 53.8	343 23.9	N 20 28.8	S 12	5 49	6 25	17 52	18 27	Nunki	75 56.2	S 26 16.4			
	12	118 56.3	358 23.9	N 20 28.3	S 13	5 51	6 27	17 50	18 26	Peacock	53 16.5	S 56 40.8			
	13	133 58.7	13 23.8	N 20 27.8	S 14	5 52	6 28	17 49	18 25	Pollux	243 26.2	N 27 59.2			
	14	149 1.2	28 23.8	N 20 27.3	S 15	5 54	6 30	17 47	18 23	Procyon	244 58.4	N 5 11.2			
	15	164 3.6	43 23.8	N 20 26.9	S 20	6 1	6 38	17 39	18 16	Rasalhague	96 4.9	N 12 33.3			
	16	179 6.1	58 23.7	N 20 26.4	S 25	6 8	6 47	17 30	18 9	Regulus	207 42.2	N 11 53.5			
	17	194 8.6	73 23.7	N 20 25.9	S 30	6 16	6 56	17 21	18 1	Rigel	281 11.0	S 8 11.1			
	18	209 11.0	88 23.7	N 20 25.4	S 35	6 24	7 7	17 10	17 53	Rigel Kent	139 47.6	S 60 54.3			
	19	224 13.5	103 23.6	N 20 24.9	S 40	6 32	7 19	16 58	17 45	Schedar	349 38.6	N 56 37.1			
	20	239 16.0	118 23.6	N 20 24.4	S 45	6 42	7 33	16 44	17 35	Shaula	96 19.6	S 37 6.7			
	21	254 18.4	133 23.6	N 20 23.9	S 50	6 53	7 50	16 27	17 24	Sirius	258 32.6	S 16 44.1			
	22	269 20.9	148 23.6	N 20 23.5	S 55	7 7	8 12	16 5	17 11	Spica	158 29.7	S 11 14.5			
23	284 23.4	163 23.5	N 20 23.0	S 60	7 23	8 43	15 34	16 54	Vega	80 37.6	N 38 48.1				
Día	Sol						Luna								
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase						
20	m s	m s		h m											
21	6 19	6 21	0.5	12 6	3.5	14									
	6 23	6 24	0.5	12 6	4.4	21									

Tabla G. Miércoles 22 de julio – jueves 23 de julio de 2015.

Día	TU	Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		Aries	Sol							Nombre	SHA	Dec.
		GHA	GHA	Dec.		h m	h m	h m	h m		° / ' / "	° / ' / "
22	h	° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m		° / ' / "	° / ' / "
	0	299 25.8	178 23.5	N 20 22.5	N 60	1 3	3 19	20 52	23 4	Achernar	335 25.8	S 57 9.2
	1	314 28.3	193 23.5	N 20 22.0	N 55	2 28	3 53	20 19	21 43	Acrux	173 7.8	S 63 11.3
	2	329 30.7	208 23.4	N 20 21.5	N 50	3 10	4 21	19 55	21 2	Adhara	255 11.8	S 28 59.7
	3	344 33.2	223 23.4	N 20 21.0	N 45	3 38	4 39	19 37	20 34	Aldebaran	290 48.0	N 16 32.3
	4	359 35.7	238 23.4	N 20 20.5	N 40	4 4	4 54	19 22	20 13	Alioth	166 19.8	N 55 52.9
	5	14 38.1	253 23.4	N 20 20.0	N 35	4 21	5 6	19 10	19 56	Alkaid	152 57.8	N 49 14.5
	6	29 40.6	268 23.3	N 20 19.5	N 30	4 35	5 17	18 59	19 41	Alnair	27 41.7	S 46 52.8
	7	44 43.1	283 23.3	N 20 19.0	N 25	4 47	5 27	18 49	19 29	Alnilam	275 45.2	S 1 11.7
	8	59 45.5	298 23.3	N 20 18.5	N 20	4 58	5 36	18 41	19 19	Alphard	217 55.0	S 8 43.7
	9	74 48.0	313 23.3	N 20 18.1	N 15	5 7	5 44	18 32	19 9	Alpheratz	357 41.8	N 29 10.5
	10	89 50.5	328 23.2	N 20 17.6	N 14	5 9	5 46	18 31	19 7	Altair	62 6.6	N 8 54.7
	11	104 52.9	343 23.2	N 20 17.1	N 13	5 11	5 47	18 29	19 6	Antares	112 24.2	S 26 27.8
	12	119 55.4	358 23.2	N 20 16.6	N 12	5 13	5 49	18 28	19 4	Arcturus	145 54.1	N 19 6.9
	13	134 57.9	13 23.2	N 20 16.1	N 11	5 15	5 50	18 26	19 2	Atria	107 24.3	S 69 3.3
	14	150 0.3	28 23.1	N 20 15.6	N 10	5 16	5 52	18 25	19 0	Avior	234 18.0	S 59 33.7
	15	165 2.8	43 23.1	N 20 15.1	N 9	5 18	5 54	18 23	18 59	Bellatrix	278 30.7	N 6 21.7
	16	180 5.2	58 23.1	N 20 14.6	N 8	5 20	5 55	18 22	18 57	Betelgeuse	271 0.0	N 7 24.4
	17	195 7.7	73 23.1	N 20 14.1	N 7	5 21	5 57	18 20	18 55	Canopus	263 56.0	S 52 42.3
	18	210 10.2	88 23.0	N 20 13.6	N 6	5 23	5 58	18 19	18 54	Capella	280 32.7	N 46 0.6
	19	225 12.6	103 23.0	N 20 13.1	N 5	5 24	6 0	18 17	18 52	Deneb	49 30.0	N 45 20.3
	20	240 15.1	118 23.0	N 20 12.6	N 4	5 26	6 1	18 16	18 51	Denebola	182 32.3	N 14 29.2
	21	255 17.6	133 23.0	N 20 12.1	N 3	5 27	6 2	18 14	18 49	Dubhe	193 50.5	N 61 40.2
22	270 20.0	148 22.9	N 20 11.6	N 2	5 29	6 4	18 13	18 48	Elnath	278 11.1	N 28 37.0	
23	285 22.5	163 22.9	N 20 11.1	N 1	5 30	6 5	18 11	18 46	Eltanin	90 45.0	N 51 29.6	
					0	5 32	6 7	18 10	18 45			
23	0	300 25.0	178 22.9	N 20 10.6	S 1	5 33	6 8	18 8	18 43	Enif	33 45.4	N 9 57.0
	1	315 27.4	193 22.9	N 20 10.1	S 2	5 35	6 10	18 7	18 42	Formalhaut	15 22.3	S 29 32.1
	2	330 29.9	208 22.9	N 20 9.6	S 3	5 36	6 11	18 6	18 40	Gacrux	171 59.4	S 57 12.2
	3	345 32.4	223 22.8	N 20 9.1	S 4	5 38	6 13	18 4	18 39	Hadar	148 45.6	S 60 27.0
	4	0 34.8	238 22.8	N 20 8.5	S 5	5 39	6 14	18 3	18 38	Hamal	327 59.2	N 23 32.0
	5	15 37.3	253 22.8	N 20 8.0	S 6	5 41	6 16	18 1	18 36	Kaus Aust	83 41.5	S 34 22.4
	6	30 39.7	268 22.8	N 20 7.5	S 7	5 42	6 17	18 0	18 35	Kochab	137 19.9	N 74 5.9
	7	45 42.2	283 22.8	N 20 7.0	S 8	5 44	6 19	17 58	18 33	Markab	13 36.7	N 15 17.4
	8	60 44.7	298 22.7	N 20 6.5	S 9	5 45	6 20	17 56	18 32	Menkent	148 5.6	S 36 26.7
	9	75 47.1	313 22.7	N 20 6.0	S 10	5 46	6 22	17 55	18 30	Miaplacidu	221 40.0	S 69 47.1
	10	90 49.6	328 22.7	N 20 5.5	S 11	5 48	6 23	17 54	18 29	Mirfak	308 38.4	N 49 54.6
	11	105 52.1	343 22.7	N 20 5.0	S 12	5 49	6 25	17 52	18 28	Nunki	75 56.2	S 26 16.4
	12	120 54.5	358 22.7	N 20 4.5	S 13	5 51	6 26	17 51	18 26	Peacock	53 16.5	S 56 40.8
	13	135 57.0	13 22.6	N 20 4.0	S 14	5 52	6 28	17 49	18 25	Pollux	243 26.2	N 27 59.2
	14	150 59.5	28 22.6	N 20 3.5	S 15	5 53	6 29	17 48	18 24	Procyon	244 58.4	N 5 11.2
	15	166 1.9	43 22.6	N 20 2.9	S 20	6 0	6 37	17 40	18 17	Rasalhague	96 4.9	N 12 33.3
	16	181 4.4	58 22.6	N 20 2.4	S 25	6 7	6 46	17 31	18 10	Regulus	207 42.2	N 11 53.5
	17	196 6.8	73 22.6	N 20 1.9	S 30	6 15	6 55	17 22	18 2	Rigel	281 10.9	S 8 11.1
	18	211 9.3	88 22.6	N 20 1.4	S 35	6 23	7 5	17 12	17 54	Rigel Kent	139 47.6	S 60 54.3
	19	226 11.8	103 22.5	N 20 0.9	S 40	6 31	7 17	17 0	17 46	Schedar	349 38.6	N 56 37.1
	20	241 14.2	118 22.5	N 20 0.4	S 45	6 40	7 31	16 46	17 37	Shaula	96 19.6	S 37 6.7
	21	256 16.7	133 22.5	N 19 59.9	S 50	6 51	7 48	16 29	17 26	Sirius	258 32.6	S 16 44.1
	22	271 19.2	148 22.5	N 19 59.3	S 55	7 4	8 9	16 8	17 13	Spica	158 29.7	S 11 14.5
23	286 21.6	163 22.5	N 19 58.8	S 60	7 20	8 39	15 38	16 57	Vega	80 37.6	N 38 48.1	
		Sol						Luna				
Día		Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase		
		m s	m s		h m							
22		6 26	6 27	0.5	12 6		5.2	30				
23		6 28	6 29	0.5	12 6		6.1	39				

Tabla G. Viernes 24 de julio – sábado 25 de julio de 2015.


Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
24	h	° /	° /	° /	°	h m	h m	h m	h m	h m	h m	Nombre	° /	° /	
	0	301 24.1	178 22.5	N 19 58.3	N 60	1 16	3 24	20 48	22 52	Achernar	335 25.8	S 57 9.2			
	1	316 26.6	193 22.4	N 19 57.8	N 55	2 33	4 0	20 16	21 38	Acruz	173 7.8	S 63 11.3			
	2	331 29.0	208 22.4	N 19 57.3	N 50	3 13	4 23	19 53	20 59	Adhara	255 11.8	S 28 59.7			
	3	346 31.5	223 22.4	N 19 56.8	N 45	3 41	4 41	19 35	20 31	Aldebaran	290 48.0	N 16 32.3			
	4	1 34.0	238 22.4	N 19 56.2	N 40	4 6	4 56	19 21	20 11	Alioth	166 19.8	N 55 52.9			
	5	16 36.4	253 22.4	N 19 55.7	N 35	4 22	5 8	19 9	19 54	Alkaid	152 57.8	N 49 14.5			
	6	31 38.9	268 22.4	N 19 55.2	N 30	4 36	5 19	18 58	19 40	Alnair	27 41.6	S 46 52.8			
	7	46 41.3	283 22.4	N 19 54.7	N 25	4 48	5 28	18 49	19 28	Alnilam	275 45.2	S 1 11.7			
	8	61 43.8	298 22.3	N 19 54.2	N 20	4 59	5 37	18 40	19 18	Alphard	217 55.0	S 8 43.7			
	9	76 46.3	313 22.3	N 19 53.6	N 15	5 8	5 45	18 32	19 8	Alpheratz	357 41.8	N 29 10.5			
	10	91 48.7	328 22.3	N 19 53.1	N 14	5 10	5 46	18 30	19 7	Altair	62 6.6	N 8 54.7			
	11	106 51.2	343 22.3	N 19 52.6	N 13	5 12	5 48	18 29	19 5	Antares	112 24.2	S 26 27.8			
	12	121 53.7	358 22.3	N 19 52.1	N 12	5 13	5 49	18 27	19 3	Arcturus	145 54.1	N 19 6.9			
	13	136 56.1	13 22.3	N 19 51.5	N 11	5 15	5 51	18 26	19 2	Atria	107 24.3	S 69 3.3			
	14	151 58.6	28 22.3	N 19 51.0	N 10	5 17	5 52	18 24	19 0	Avior	234 18.0	S 59 33.7			
	15	167 1.1	43 22.3	N 19 50.5	N 9	5 18	5 54	18 23	18 58	Bellatrix	278 30.7	N 6 21.7			
	16	182 3.5	58 22.2	N 19 50.0	N 8	5 20	5 55	18 21	18 57	Betelgeuse	271 0.0	N 7 24.4			
	17	197 6.0	73 22.2	N 19 49.4	N 7	5 22	5 57	18 20	18 55	Canopus	263 56.0	S 52 42.3			
	18	212 8.5	88 22.2	N 19 48.9	N 6	5 23	5 58	18 19	18 54	Capella	280 32.7	N 46 0.6			
	19	227 10.9	103 22.2	N 19 48.4	N 5	5 25	6 0	18 17	18 52	Deneb	49 30.0	N 45 20.3			
	20	242 13.4	118 22.2	N 19 47.8	N 4	5 26	6 1	18 16	18 51	Denebola	182 32.3	N 14 29.2			
	21	257 15.8	133 22.2	N 19 47.3	N 3	5 28	6 3	18 14	18 49	Dubhe	193 50.5	N 61 40.2			
22	272 18.3	148 22.2	N 19 46.8	N 2	5 29	6 4	18 13	18 48	Elnath	278 11.1	N 28 37.0				
23	287 20.8	163 22.2	N 19 46.3	N 1	5 31	6 5	18 11	18 46	Eltanin	90 45.0	N 51 29.6				
					0	5 32	6 7	18 10	18 45						
25	0	302 23.2	178 22.2	N 19 45.7	S 1	5 34	6 8	18 8	18 43	Enif	33 45.4	N 9 57.0			
	1	317 25.7	193 22.2	N 19 45.2	S 2	5 35	6 10	18 7	18 42	Formalhaut	15 22.3	S 29 32.1			
	2	332 28.2	208 22.1	N 19 44.7	S 3	5 36	6 11	18 6	18 40	Gacrux	171 59.4	S 57 12.2			
	3	347 30.6	223 22.1	N 19 44.1	S 4	5 38	6 13	18 4	18 39	Hadar	148 45.7	S 60 27.0			
	4	2 33.1	238 22.1	N 19 43.6	S 5	5 39	6 14	18 3	18 38	Hamal	327 59.2	N 23 32.0			
	5	17 35.6	253 22.1	N 19 43.1	S 6	5 41	6 16	18 1	18 36	Kaus Aust	83 41.5	S 34 22.4			
	6	32 38.0	268 22.1	N 19 42.5	S 7	5 42	6 17	18 0	18 35	Kochab	137 20.0	N 74 5.9			
	7	47 40.5	283 22.1	N 19 42.0	S 8	5 43	6 18	17 58	18 33	Markab	13 36.6	N 15 17.4			
	8	62 42.9	298 22.1	N 19 41.5	S 9	5 45	6 20	17 57	18 32	Menkent	148 5.6	S 36 26.7			
	9	77 45.4	313 22.1	N 19 40.9	S 10	5 46	6 21	17 56	18 31	Miaplacidu	221 40.0	S 69 47.1			
	10	92 47.9	328 22.1	N 19 40.4	S 11	5 48	6 23	17 54	18 29	Mirfak	308 38.4	N 49 54.6			
	11	107 50.3	343 22.1	N 19 39.9	S 12	5 49	6 24	17 53	18 28	Nunki	75 56.2	S 26 16.4			
	12	122 52.8	358 22.1	N 19 39.3	S 13	5 50	6 26	17 51	18 27	Peacock	53 16.5	S 56 40.8			
	13	137 55.3	13 22.1	N 19 38.8	S 14	5 52	6 27	17 50	18 25	Pollux	243 26.2	N 27 59.2			
	14	152 57.7	28 22.1	N 19 38.2	S 15	5 53	6 29	17 48	18 24	Procyon	244 58.4	N 5 11.2			
	15	168 0.2	43 22.1	N 19 37.7	S 20	6 0	6 37	17 40	18 17	Rasalhague	96 4.9	N 12 33.3			
	16	183 2.7	58 22.0	N 19 37.2	S 25	6 7	6 45	17 32	18 10	Regulus	207 42.2	N 11 53.5			
	17	198 5.1	73 22.0	N 19 36.6	S 30	6 14	6 54	17 23	18 3	Rigel	281 10.9	S 8 11.1			
	18	213 7.6	88 22.0	N 19 36.1	S 35	6 21	7 4	17 13	17 56	Rigel Kent	139 47.6	S 60 54.3			
	19	228 10.1	103 22.0	N 19 35.5	S 40	6 30	7 16	17 2	17 48	Schedar	349 38.6	N 56 37.1			
	20	243 12.5	118 22.0	N 19 35.0	S 45	6 39	7 29	16 48	17 39	Shaula	96 19.6	S 37 6.7			
	21	258 15.0	133 22.0	N 19 34.4	S 50	6 49	7 46	16 32	17 28	Sirius	258 32.6	S 16 44.1			
	22	273 17.4	148 22.0	N 19 33.9	S 55	7 2	8 6	16 11	17 16	Spica	158 29.8	S 11 14.5			
23	288 19.9	163 22.0	N 19 33.4	S 60	7 17	8 35	15 43	17 0	Vega	80 37.6	N 38 48.1				
Día	Sol						Luna								
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase						
24	m s	m s		h m											
25	6 30	6 31	0.5	12 7	6.9	48									
	6 31	6 32	0.5	12 7	7.8	58									

Tabla G. Domingo 26 de julio – lunes 27 de julio de 2015.


Día	TU	Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		Aries	Sol							Nombre	SHA	Dec.
		GHA	GHA	Dec.		h m	h m	h m	h m		° / ' / "	° / ' / "
26	h	° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m		° / ' / "	° / ' / "
	0	303 22.4	178 22.0	N 19 32.8	N 60	1 27	3 28	20 43	22 41	Achernar	335 25.8	S 57 9.2
	1	318 24.8	193 22.0	N 19 32.3	N 55	2 38	4 3	20 12	21 33	Acrux	173 7.8	S 63 11.3
	2	333 27.3	208 22.0	N 19 31.7	N 50	3 17	4 26	19 50	20 55	Alhara	255 11.7	S 28 59.7
	3	348 29.8	223 22.0	N 19 31.2	N 45	3 47	4 43	19 33	20 29	Aldebaran	290 47.9	N 16 32.3
	4	3 32.2	238 22.0	N 19 30.6	N 40	4 8	4 57	19 19	20 8	Alioth	166 19.8	N 55 52.9
	5	18 34.7	253 22.0	N 19 30.1	N 35	4 24	5 9	19 7	19 52	Alkaid	152 57.8	N 49 14.5
	6	33 37.2	268 22.0	N 19 29.5	N 30	4 38	5 20	18 57	19 39	Alnair	27 41.6	S 46 52.8
	7	48 39.6	283 22.0	N 19 29.0	N 25	4 49	5 29	18 48	19 27	Alnilam	275 45.2	S 1 11.7
	8	63 42.1	298 22.0	N 19 28.4	N 20	5 0	5 37	18 39	19 17	Alphard	217 55.0	S 8 43.7
	9	78 44.6	313 22.0	N 19 27.9	N 15	5 9	5 45	18 31	19 8	Alpheratz	357 41.8	N 29 10.6
	10	93 47.0	328 22.0	N 19 27.3	N 14	5 11	5 47	18 30	19 6	Altair	62 6.6	N 8 54.7
	11	108 49.5	343 22.0	N 19 26.8	N 13	5 12	5 48	18 28	19 4	Antares	112 24.2	S 26 27.8
	12	123 51.9	358 22.0	N 19 26.2	N 12	5 14	5 50	18 27	19 3	Arcturus	145 54.1	N 19 6.9
	13	138 54.4	13 22.0	N 19 25.7	N 11	5 16	5 51	18 25	19 1	Atria	107 24.3	S 69 3.3
	14	153 56.9	28 22.0	N 19 25.1	N 10	5 17	5 53	18 24	18 59	Avior	234 18.0	S 59 33.7
	15	168 59.3	43 22.0	N 19 24.6	N 9	5 19	5 54	18 23	18 58	Bellatrix	278 30.7	N 6 21.7
	16	184 1.8	58 22.0	N 19 24.0	N 8	5 20	5 56	18 21	18 56	Betelgeuse	271 0.0	N 7 24.4
	17	199 4.3	73 22.0	N 19 23.5	N 7	5 22	5 57	18 20	18 55	Canopus	263 56.0	S 52 42.3
	18	214 6.7	88 22.0	N 19 22.9	N 6	5 23	5 58	18 18	18 53	Capella	280 32.7	N 46 0.6
	19	229 9.2	103 22.0	N 19 22.4	N 5	5 25	6 0	18 17	18 52	Deneb	49 30.0	N 45 20.3
	20	244 11.7	118 22.0	N 19 21.8	N 4	5 26	6 1	18 15	18 50	Denebola	182 32.3	N 14 29.2
	21	259 14.1	133 22.0	N 19 21.3	N 3	5 28	6 3	18 14	18 49	Dubhe	193 50.5	N 61 40.2
22	274 16.6	148 22.0	N 19 20.7	N 2	5 29	6 4	18 13	18 47	Elnath	278 11.1	N 28 37.0	
23	289 19.0	163 22.0	N 19 20.1	N 1	5 31	6 6	18 11	18 46	Eltanin	90 45.0	N 51 29.6	
					0	5 32	6 7	18 10	18 45			
27	0	304 21.5	178 22.0	N 19 19.6	S 1	5 34	6 8	18 9	18 43	Enif	33 45.4	N 9 57.0
	1	319 24.0	193 22.0	N 19 19.0	S 2	5 35	6 10	18 7	18 42	Formalhaut	15 22.3	S 29 32.1
	2	334 26.4	208 22.0	N 19 18.5	S 3	5 36	6 11	18 6	18 40	Gacrux	171 59.4	S 57 12.2
	3	349 28.9	223 22.0	N 19 17.9	S 4	5 38	6 13	18 4	18 39	Hadar	148 45.7	S 60 27.0
	4	4 31.4	238 22.0	N 19 17.3	S 5	5 39	6 14	18 3	18 38	Hamal	327 59.1	N 23 32.0
	5	19 33.8	253 22.0	N 19 16.8	S 6	5 41	6 15	18 2	18 36	Kaus Aust	83 41.5	S 34 22.4
	6	34 36.3	268 22.0	N 19 16.2	S 7	5 42	6 17	18 0	18 35	Kochab	137 20.0	N 74 5.9
	7	49 38.8	283 22.1	N 19 15.7	S 8	5 43	6 18	17 59	18 34	Markab	13 36.6	N 15 17.4
	8	64 41.2	298 22.1	N 19 15.1	S 9	5 45	6 20	17 57	18 32	Menkent	148 5.6	S 36 26.7
	9	79 43.7	313 22.1	N 19 14.5	S 10	5 46	6 21	17 56	18 31	Miaplacidu	221 40.0	S 69 47.1
	10	94 46.2	328 22.1	N 19 14.0	S 11	5 47	6 22	17 54	18 30	Mirfak	308 38.4	N 49 54.6
	11	109 48.6	343 22.1	N 19 13.4	S 12	5 49	6 24	17 53	18 28	Nunki	75 56.2	S 26 16.4
	12	124 51.1	358 22.1	N 19 12.8	S 13	5 50	6 25	17 52	18 27	Peacock	53 16.4	S 56 40.8
	13	139 53.5	13 22.1	N 19 12.3	S 14	5 51	6 27	17 50	18 26	Pollux	243 26.2	N 27 59.2
	14	154 56.0	28 22.1	N 19 11.7	S 15	5 53	6 28	17 49	18 24	Procyon	244 58.4	N 5 11.2
	15	169 58.5	43 22.1	N 19 11.1	S 20	5 59	6 36	17 41	18 18	Rasalhague	96 4.9	N 12 33.3
	16	185 0.9	58 22.1	N 19 10.6	S 25	6 6	6 44	17 33	18 11	Regulus	207 42.2	N 11 53.5
	17	200 3.4	73 22.1	N 19 10.0	S 30	6 13	6 53	17 24	18 4	Rigel	281 10.9	S 8 11.1
	18	215 5.9	88 22.1	N 19 9.4	S 35	6 20	7 3	17 14	17 57	Rigel Kent	139 47.6	S 60 54.3
	19	230 8.3	103 22.1	N 19 8.9	S 40	6 28	7 14	17 3	17 49	Schedar	349 38.5	N 56 37.1
	20	245 10.8	118 22.1	N 19 8.3	S 45	6 37	7 27	16 50	17 40	Shaula	96 19.6	S 37 6.7
	21	260 13.3	133 22.2	N 19 7.7	S 50	6 47	7 43	16 34	17 30	Sirius	258 32.6	S 16 44.0
	22	275 15.7	148 22.2	N 19 7.2	S 55	6 59	8 3	16 14	17 18	Spica	158 29.8	S 11 14.5
23	290 18.2	163 22.2	N 19 6.6	S 60	7 14	8 31	15 47	17 4	Vega	80 37.6	N 38 48.2	
		Sol							Luna			
Día		Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase		
		m s	m s		h m							
26		6 32	6 32	0.6	12 7		8.8	67				
27		6 32	6 32	0.6	12 7		9.8	76				

Tabla G. Martes 28 de julio – miércoles 29 de julio de 2015.


Día	TU	Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.						Nombre	SHA	Dec.
28	h	° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m		° / ' / "	° / ' / "
	0	305 20.7	178 22.2	N 19 6.0	N 60	1 37	3 33	20 38	22 31	Achernar	335 25.8	S 57 9.2
	1	320 23.1	193 22.2	N 19 5.5	N 55	2 43	4 7	20 9	21 28	Acruz	173 7.8	S 63 11.3
	2	335 25.6	208 22.2	N 19 4.9	N 50	3 20	4 29	19 47	20 51	Adhara	255 11.7	S 28 59.7
	3	350 28.0	223 22.2	N 19 4.3	N 45	3 50	4 45	19 31	20 26	Aldebaran	290 47.9	N 16 32.3
	4	5 30.5	238 22.2	N 19 3.7	N 40	4 10	4 59	19 17	20 6	Alioth	166 19.8	N 55 52.9
	5	20 33.0	253 22.2	N 19 3.2	N 35	4 26	5 11	19 6	19 50	Alkaid	152 57.9	N 49 14.5
	6	35 35.4	268 22.3	N 19 2.6	N 30	4 39	5 21	18 56	19 37	Alnair	27 41.6	S 46 52.8
	7	50 37.9	283 22.3	N 19 2.0	N 25	4 51	5 30	18 47	19 26	Alnilam	275 45.2	S 1 11.7
	8	65 40.4	298 22.3	N 19 1.4	N 20	5 1	5 38	18 38	19 16	Alphard	217 55.0	S 8 43.7
	9	80 42.8	313 22.3	N 19 0.9	N 15	5 9	5 46	18 31	19 7	Alpheratz	357 41.8	N 29 10.6
	10	95 45.3	328 22.3	N 19 0.3	N 14	5 11	5 47	18 29	19 5	Altair	62 6.6	N 8 54.8
	11	110 47.8	343 22.3	N 18 59.7	N 13	5 13	5 49	18 28	19 4	Antares	112 24.2	S 26 27.8
	12	125 50.2	358 22.3	N 18 59.1	N 12	5 14	5 50	18 26	19 2	Arcturus	145 54.1	N 19 6.9
	13	140 52.7	13 22.3	N 18 58.6	N 11	5 16	5 52	18 25	19 1	Atria	107 24.3	S 69 3.3
	14	155 55.2	28 22.4	N 18 58.0	N 10	5 18	5 53	18 24	18 59	Avior	234 18.0	S 59 33.7
	15	170 57.6	43 22.4	N 18 57.4	N 9	5 19	5 54	18 22	18 57	Bellatrix	278 30.7	N 6 21.7
	16	186 0.1	58 22.4	N 18 56.8	N 8	5 21	5 56	18 21	18 56	Betelgeuse	271 0.0	N 7 24.4
	17	201 2.5	73 22.4	N 18 56.2	N 7	5 22	5 57	18 19	18 54	Canopus	263 56.0	S 52 42.3
	18	216 5.0	88 22.4	N 18 55.7	N 6	5 24	5 59	18 18	18 53	Capella	280 32.7	N 46 0.6
	19	231 7.5	103 22.4	N 18 55.1	N 5	5 25	6 0	18 17	18 51	Deneb	49 30.0	N 45 20.4
	20	246 9.9	118 22.4	N 18 54.5	N 4	5 27	6 1	18 15	18 50	Denebola	182 32.3	N 14 29.2
	21	261 12.4	133 22.5	N 18 53.9	N 3	5 28	6 3	18 14	18 49	Dubhe	193 50.5	N 61 40.2
22	276 14.9	148 22.5	N 18 53.3	N 2	5 30	6 4	18 13	18 47	Elnath	278 11.1	N 28 37.0	
23	291 17.3	163 22.5	N 18 52.7	N 1	5 31	6 6	18 11	18 46	Eltanin	90 45.0	N 51 29.6	
29	0	306 19.8	178 22.5	N 18 52.2	S 1	5 34	6 8	18 10	18 44	Enif	33 45.4	N 9 57.0
	1	321 22.3	193 22.5	N 18 51.6	S 2	5 35	6 10	18 7	18 42	Formalhaut	15 22.2	S 29 32.1
	2	336 24.7	208 22.5	N 18 51.0	S 3	5 36	6 11	18 6	18 40	Gacrux	171 59.4	S 57 12.1
	3	351 27.2	223 22.6	N 18 50.4	S 4	5 38	6 12	18 4	18 39	Hadar	148 45.7	S 60 27.0
	4	6 29.6	238 22.6	N 18 49.8	S 5	5 39	6 14	18 3	18 38	Hamal	327 59.1	N 23 32.0
	5	21 32.1	253 22.6	N 18 49.2	S 6	5 40	6 15	18 2	18 36	Kaus Aust	83 41.5	S 34 22.4
	6	36 34.6	268 22.6	N 18 48.6	S 7	5 42	6 16	18 0	18 35	Kochab	137 20.1	N 74 5.9
	7	51 37.0	283 22.6	N 18 48.1	S 8	5 43	6 18	17 59	18 34	Markab	13 36.6	N 15 17.4
	8	66 39.5	298 22.6	N 18 47.5	S 9	5 45	6 19	17 57	18 32	Menkent	148 5.6	S 36 26.7
	9	81 42.0	313 22.7	N 18 46.9	S 10	5 46	6 21	17 56	18 31	Miaplacidu	221 40.0	S 69 47.1
	10	96 44.4	328 22.7	N 18 46.3	S 11	5 47	6 22	17 55	18 30	Mirfak	308 38.4	N 49 54.6
	11	111 46.9	343 22.7	N 18 45.7	S 12	5 48	6 23	17 53	18 29	Nunki	75 56.2	S 26 16.4
	12	126 49.4	358 22.7	N 18 45.1	S 13	5 49	6 25	17 52	18 27	Peacock	53 16.4	S 56 40.8
	13	141 51.8	13 22.7	N 18 44.5	S 14	5 51	6 26	17 51	18 26	Pollux	243 26.2	N 27 59.2
	14	156 54.3	28 22.8	N 18 43.9	S 15	5 52	6 28	17 49	18 25	Procyon	244 58.4	N 5 11.2
	15	171 56.8	43 22.8	N 18 43.3	S 20	5 58	6 35	17 42	18 18	Rasalhague	96 4.9	N 12 33.3
	16	186 59.2	58 22.8	N 18 42.7	S 25	6 5	6 43	17 34	18 12	Regulus	207 42.2	N 11 53.5
	17	202 1.7	73 22.8	N 18 42.2	S 30	6 12	6 52	17 25	18 5	Rigel	281 10.9	S 8 11.1
	18	217 4.1	88 22.8	N 18 41.6	S 35	6 19	7 1	17 16	17 58	Rigel Kent	139 47.6	S 60 54.3
	19	232 6.6	103 22.9	N 18 41.0	S 40	6 26	7 12	17 5	17 51	Schedar	349 38.5	N 56 37.1
	20	247 9.1	118 22.9	N 18 40.4	S 45	6 35	7 25	16 52	17 42	Shaula	96 19.6	S 37 6.7
	21	262 11.5	133 22.9	N 18 39.8	S 50	6 45	7 40	16 37	17 33	Sirius	258 32.6	S 16 44.0
	22	277 14.0	148 22.9	N 18 39.2	S 55	6 56	8 0	16 17	17 21	Spica	158 29.8	S 11 14.5
23	292 16.5	163 22.9	N 18 38.6	S 60	7 10	8 26	15 51	17 7	Vega	80 37.6	N 38 48.2	
Día	Sol				Luna							
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día	Porcentaje de iluminación	Fase					
28	m s	m s		h m								
29	6 31	6 31	0.6	12 7	10.8	85						
	6 30	6 29	0.6	12 6	11.9	92						

Tabla G. Jueves 30 de julio – viernes 31 de julio de 2015.


Día	TU	Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		Aries	Sol							Nombre	SHA	Dec.
		GHA	GHA	Dec.								
		° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m		° / ' / "	° / ' / "
30	h				°	h m	h m	h m	h m			
	0	307 18.9	178 23.0	N 18 38.0	N 60	1 47	3 41	20 33	22 22	Achernar	335 25.7	S 57 9.2
	1	322 21.4	193 23.0	N 18 37.4	N 55	2 48	4 10	20 5	21 23	Acrux	173 7.8	S 63 11.3
	2	337 23.9	208 23.0	N 18 36.8	N 50	3 24	4 31	19 44	20 48	Adhara	255 11.7	S 28 59.7
	3	352 26.3	223 23.0	N 18 36.2	N 45	3 53	4 48	19 28	20 23	Aldebaran	290 47.9	N 16 32.3
	4	7 28.8	238 23.1	N 18 35.6	N 40	4 12	5 1	19 15	20 4	Alioth	166 19.8	N 55 52.9
	5	22 31.3	253 23.1	N 18 35.0	N 35	4 28	5 12	19 4	19 48	Alkaid	152 57.9	N 49 14.5
	6	37 33.7	268 23.1	N 18 34.4	N 30	4 40	5 22	18 54	19 36	Alnair	27 41.6	S 46 52.8
	7	52 36.2	283 23.1	N 18 33.8	N 25	4 52	5 31	18 45	19 25	Alnilam	275 45.1	S 1 11.7
	8	67 38.6	298 23.2	N 18 33.2	N 20	5 1	5 39	18 37	19 15	Alphard	217 55.0	S 8 43.7
	9	82 41.1	313 23.2	N 18 32.6	N 15	5 10	5 46	18 30	19 6	Alpheratz	357 41.8	N 29 10.6
	10	97 43.6	328 23.2	N 18 32.0	N 14	5 12	5 48	18 29	19 5	Altair	62 6.6	N 8 54.8
	11	112 46.0	343 23.2	N 18 31.4	N 13	5 13	5 49	18 27	19 3	Antares	112 24.2	S 26 27.8
	12	127 48.5	358 23.3	N 18 30.8	N 12	5 15	5 51	18 26	19 1	Arcturus	145 54.1	N 19 6.9
	13	142 51.0	13 23.3	N 18 30.2	N 11	5 17	5 52	18 24	19 0	Atria	107 24.3	S 69 3.3
	14	157 53.4	28 23.3	N 18 29.6	N 10	5 18	5 53	18 23	18 58	Avior	234 18.0	S 59 33.7
	15	172 55.9	43 23.3	N 18 29.0	N 9	5 20	5 55	18 22	18 57	Bellatrix	278 30.7	N 6 21.7
	16	187 58.4	58 23.4	N 18 28.4	N 8	5 21	5 56	18 20	18 55	Betelgeuse	271 0.0	N 7 24.4
	17	203 0.8	73 23.4	N 18 27.8	N 7	5 23	5 57	18 19	18 54	Canopus	263 56.0	S 52 42.3
	18	218 3.3	88 23.4	N 18 27.2	N 6	5 24	5 59	18 18	18 52	Capella	280 32.6	N 46 0.6
	19	233 5.7	103 23.5	N 18 26.5	N 5	5 25	6 0	18 16	18 51	Deneb	49 30.0	N 45 20.4
	20	248 8.2	118 23.5	N 18 25.9	N 4	5 27	6 2	18 15	18 50	Denebola	182 32.3	N 14 29.2
	21	263 10.7	133 23.5	N 18 25.3	N 3	5 28	6 3	18 14	18 48	Dubhe	193 50.5	N 61 40.2
22	278 13.1	148 23.5	N 18 24.7	N 2	5 30	6 4	18 12	18 47	Elnath	278 11.1	N 28 37.0	
23	293 15.6	163 23.6	N 18 24.1	N 1	5 31	6 6	18 11	18 46	Eltanin	90 45.0	N 51 29.6	
31	0	308 18.1	178 23.6	N 18 23.5	S 1	5 34	6 8	18 8	18 43	Enif	33 45.4	N 9 57.0
	1	323 20.5	193 23.6	N 18 22.9	S 2	5 35	6 10	18 7	18 42	Formalhaut	15 22.2	S 29 32.1
	2	338 23.0	208 23.7	N 18 22.3	S 3	5 36	6 11	18 6	18 40	Gacrux	171 59.4	S 57 12.1
	3	353 25.5	223 23.7	N 18 21.7	S 4	5 38	6 12	18 4	18 39	Hadar	148 45.7	S 60 27.0
	4	8 27.9	238 23.7	N 18 21.1	S 5	5 39	6 13	18 3	18 38	Hamal	327 59.1	N 23 32.0
	5	23 30.4	253 23.7	N 18 20.4	S 6	5 40	6 15	18 2	18 36	Kaus Aust	83 41.5	S 34 22.4
	6	38 32.9	268 23.8	N 18 19.8	S 7	5 41	6 16	18 1	18 35	Kochab	137 20.1	N 74 5.9
	7	53 35.3	283 23.8	N 18 19.2	S 8	5 43	6 17	17 59	18 34	Markab	13 36.6	N 15 17.4
	8	68 37.8	298 23.8	N 18 18.6	S 9	5 44	6 19	17 58	18 32	Menkent	148 5.6	S 36 26.7
	9	83 40.2	313 23.9	N 18 18.0	S 10	5 45	6 20	17 56	18 31	Miaplacidu	221 40.0	S 69 47.1
	10	98 42.7	328 23.9	N 18 17.4	S 11	5 47	6 22	17 55	18 30	Mirfak	308 38.3	N 49 54.6
	11	113 45.2	343 23.9	N 18 16.8	S 12	5 48	6 23	17 54	18 29	Nunki	75 56.2	S 26 16.4
	12	128 47.6	358 24.0	N 18 16.1	S 13	5 49	6 24	17 52	18 28	Peacock	53 16.4	S 56 40.8
	13	143 50.1	13 24.0	N 18 15.5	S 14	5 50	6 26	17 51	18 26	Pollux	243 26.2	N 27 59.2
	14	158 52.6	28 24.0	N 18 14.9	S 15	5 52	6 27	17 50	18 25	Procyon	244 58.4	N 5 11.2
	15	173 55.0	43 24.1	N 18 14.3	S 20	5 58	6 34	17 42	18 19	Rasalhague	96 4.9	N 12 33.3
	16	188 57.5	58 24.1	N 18 13.7	S 25	6 4	6 42	17 35	18 13	Regulus	207 42.2	N 11 53.5
	17	204 00.0	73 24.1	N 18 13.1	S 30	6 11	6 50	17 27	18 6	Rigel	281 10.9	S 8 11.1
	18	219 2.4	88 24.2	N 18 12.4	S 35	6 17	7 0	17 17	18 0	Rigel Kent	139 47.6	S 60 54.3
	19	234 4.9	103 24.2	N 18 11.8	S 40	6 25	7 10	17 7	17 52	Schedar	349 38.5	N 56 37.1
	20	249 7.4	118 24.2	N 18 11.2	S 45	6 33	7 23	16 55	17 44	Shaula	96 19.6	S 37 6.7
	21	264 9.8	133 24.3	N 18 10.6	S 50	6 42	7 37	16 40	17 35	Sirius	258 32.6	S 16 44.0
	22	279 12.3	148 24.3	N 18 10.0	S 55	6 53	7 56	16 21	17 24	Spica	158 29.8	S 11 14.5
23	294 14.7	163 24.3	N 18 9.3	S 60	7 7	8 22	15 55	17 11	Vega	80 37.6	N 38 48.2	
		Sol						Luna				
Día	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día	Porcentaje de iluminación		Fase				
	m s	m s		h m								
30	6 28	6 27	0.6	12 6	13.0	97						
31	6 25	6 24	0.6	12 6	14.2	99						

Tabla G. Sábado 1 de agosto – domingo 2 de agosto de 2015.


Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
	h	° /	° /	° /	°	h m	h m	h m	h m	h m	h m	° /	° /	° /	
1	0	309 17.2	178 24.4	N 18 8.7	N 60	1 56	3 46	20 29	22 13	Achernar	335 25.7	S 57 9.2			
	1	324 19.7	193 24.4	N 18 8.1	N 55	2 53	4 14	20 1	21 18	Acrux	173 7.9	S 63 11.3			
	2	339 22.1	208 24.4	N 18 7.5	N 50	3 31	4 34	19 41	20 44	Adhara	255 11.7	S 28 59.7			
	3	354 24.6	223 24.5	N 18 6.9	N 45	3 55	4 50	19 26	20 20	Aldebaran	290 47.9	N 16 32.3			
	4	9 27.1	238 24.5	N 18 6.2	N 40	4 14	5 3	19 13	20 1	Alioth	166 19.8	N 55 52.8			
	5	24 29.5	253 24.5	N 18 5.6	N 35	4 29	5 14	19 2	19 46	Alkaid	152 57.9	N 49 14.5			
	6	39 32.0	268 24.6	N 18 5.0	N 30	4 42	5 23	18 53	19 34	Alnair	27 41.6	S 46 52.8			
	7	54 34.5	283 24.6	N 18 4.4	N 25	4 53	5 32	18 44	19 23	Alnilam	275 45.1	S 1 11.6			
	8	69 36.9	298 24.7	N 18 3.7	N 20	5 2	5 40	18 37	19 14	Alphard	217 55.0	S 8 43.7			
	9	84 39.4	313 24.7	N 18 3.1	N 15	5 11	5 47	18 29	19 5	Alpheratz	357 41.8	N 29 10.6			
	10	99 41.8	328 24.7	N 18 2.5	N 14	5 12	5 48	18 28	19 4	Altair	62 6.6	N 8 54.8			
	11	114 44.3	343 24.8	N 18 1.8	N 13	5 14	5 50	18 27	19 2	Antares	112 24.3	S 26 27.8			
	12	129 46.8	358 24.8	N 18 1.2	N 12	5 15	5 51	18 25	19 1	Arcturus	145 54.1	N 19 6.9			
	13	144 49.2	13 24.8	N 18 0.6	N 11	5 17	5 52	18 24	18 59	Atria	107 24.4	S 69 3.3			
	14	159 51.7	28 24.9	N 18 0.0	N 10	5 18	5 54	18 23	18 58	Avior	234 18.0	S 59 33.7			
	15	174 54.2	43 24.9	N 17 59.3	N 9	5 20	5 55	18 21	18 56	Bellatrix	278 30.7	N 6 21.7			
	16	189 56.6	58 25.0	N 17 58.7	N 8	5 21	5 56	18 20	18 55	Betelgeuse	271 00.0	N 7 24.4			
	17	204 59.1	73 25.0	N 17 58.1	N 7	5 23	5 58	18 19	18 53	Canopus	263 56.0	S 52 42.3			
	18	220 1.6	88 25.0	N 17 57.4	N 6	5 24	5 59	18 17	18 52	Capella	280 32.6	N 46 0.6			
	19	235 4.0	103 25.1	N 17 56.8	N 5	5 26	6 0	18 16	18 51	Deneb	49 30.0	N 45 20.4			
	20	250 6.5	118 25.1	N 17 56.2	N 4	5 27	6 2	18 15	18 49	Denebola	182 32.3	N 14 29.2			
	21	265 9.0	133 25.2	N 17 55.5	N 3	5 28	6 3	18 13	18 48	Dubhe	193 50.5	N 61 40.2			
	22	280 11.4	148 25.2	N 17 54.9	N 2	5 30	6 4	18 12	18 47	Elnath	278 11.0	N 28 37.0			
23	295 13.9	163 25.3	N 17 54.3	N 1	5 31	6 5	18 11	18 45	Eltanin	90 45.0	N 51 29.6				
				0	5 32	6 7	18 10	18 44							
2	0	310 16.3	178 25.3	N 17 53.6	S 1	5 34	6 8	18 8	18 43	Enif	33 45.4	N 9 57.0			
	1	325 18.8	193 25.3	N 17 53.0	S 2	5 35	6 9	18 7	18 41	Formalhaut	15 22.2	S 29 32.1			
	2	340 21.3	208 25.4	N 17 52.4	S 3	5 36	6 11	18 6	18 40	Gacrux	171 59.4	S 57 12.1			
	3	355 23.7	223 25.4	N 17 51.7	S 4	5 37	6 12	18 4	18 39	Hadara	148 45.7	S 60 27.0			
	4	10 26.2	238 25.5	N 17 51.1	S 5	5 39	6 13	18 3	18 38	Hamal	327 59.1	N 23 32.0			
	5	25 28.7	253 25.5	N 17 50.5	S 6	5 40	6 14	18 2	18 36	Kaus Aust	83 41.5	S 34 22.4			
	6	40 31.1	268 25.5	N 17 49.8	S 7	5 41	6 16	18 1	18 35	Kochab	137 20.1	N 74 5.9			
	7	55 33.6	283 25.6	N 17 49.2	S 8	5 42	6 17	17 59	18 34	Markab	13 36.6	N 15 17.5			
	8	70 36.1	298 25.6	N 17 48.5	S 9	5 44	6 19	17 58	18 33	Menkent	148 5.7	S 36 26.7			
	9	85 38.5	313 25.7	N 17 47.9	S 10	5 45	6 20	17 57	18 32	Miaplacidu	221 40.0	S 69 47.1			
	10	100 41.0	328 25.7	N 17 47.3	S 11	5 46	6 21	17 55	18 30	Mirfak	308 38.3	N 49 54.6			
	11	115 43.5	343 25.8	N 17 46.6	S 12	5 47	6 22	17 54	18 29	Nunki	75 56.2	S 26 16.4			
	12	130 45.9	358 25.8	N 17 46.0	S 13	5 49	6 24	17 53	18 28	Peacock	53 16.4	S 56 40.8			
	13	145 48.4	13 25.9	N 17 45.3	S 14	5 50	6 25	17 51	18 27	Pollux	243 26.2	N 27 59.2			
	14	160 50.8	28 25.9	N 17 44.7	S 15	5 51	6 26	17 50	18 26	Procyon	244 58.4	N 5 11.2			
	15	175 53.3	43 25.9	N 17 44.1	S 20	5 57	6 33	17 43	18 20	Rasalhague	96 4.9	N 12 33.3			
	16	190 55.8	58 26.0	N 17 43.4	S 25	6 3	6 41	17 36	18 14	Regulus	207 42.2	N 11 53.5			
	17	205 58.2	73 26.0	N 17 42.8	S 30	6 9	6 49	17 28	18 7	Rigel	281 10.9	S 8 11.1			
	18	221 0.7	88 26.1	N 17 42.1	S 35	6 16	6 58	17 19	18 1	Rigel Kent	139 47.7	S 60 54.3			
	19	236 3.2	103 26.1	N 17 41.5	S 40	6 23	7 8	17 9	17 54	Schedar	349 38.5	N 56 37.2			
	20	251 5.6	118 26.2	N 17 40.9	S 45	6 31	7 20	16 57	17 46	Shaula	96 19.6	S 37 6.7			
	21	266 8.1	133 26.2	N 17 40.2	S 50	6 40	7 35	16 42	17 37	Sirius	258 32.6	S 16 44.0			
	22	281 10.6	148 26.3	N 17 39.6	S 55	6 50	7 53	16 24	17 27	Spica	158 29.8	S 11 14.5			
23	296 13.0	163 26.3	N 17 38.9	S 60	7 3	8 17	16 0	17 14	Vega	80 37.6	N 38 48.2				
Día	Sol						Luna								
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase						
1	m s	m s		h m											
2	6 22	6 21	0.6	12 6	15.3	99									
	6 19	6 17	0.7	12 6	16.4	96									

Tabla G. Lunes 3 de agosto – martes 4 de agosto de 2015.


Día	TU	Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		Aries	Sol							Nombre	SHA	Dec.
		GHA	GHA	Dec.		h m	h m	h m	h m		° / ' / "	° / ' / "
3	h				°							
	0	311 15.5	178 26.4	N 17 38.3	N 60	2 5	3 51	20 23	22 4	Achernar	335 25.7	S 57 9.2
	1	326 18.0	193 26.4	N 17 37.6	N 55	2 58	4 17	19 57	21 12	Acrux	173 7.9	S 63 11.3
	2	341 20.4	208 26.5	N 17 37.0	N 50	3 35	4 37	19 38	20 40	Alhara	255 11.7	S 28 59.7
	3	356 22.9	223 26.5	N 17 36.3	N 45	3 58	4 52	19 23	20 17	Aldebaran	290 47.9	N 16 32.3
	4	11 25.3	238 26.6	N 17 35.7	N 40	4 16	5 5	19 11	19 59	Alioth	166 19.8	N 55 52.8
	5	26 27.8	253 26.6	N 17 35.0	N 35	4 31	5 15	19 0	19 44	Alkaid	152 57.9	N 49 14.5
	6	41 30.3	268 26.7	N 17 34.4	N 30	4 43	5 25	18 51	19 32	Alnair	27 41.6	S 46 52.8
	7	56 32.7	283 26.7	N 17 33.7	N 25	4 54	5 33	18 43	19 22	Alnilam	275 45.1	S 1 11.6
	8	71 35.2	298 26.8	N 17 33.1	N 20	5 3	5 40	18 36	19 13	Alphard	217 55.0	S 8 43.6
	9	86 37.7	313 26.8	N 17 32.4	N 15	5 11	5 47	18 29	19 4	Alpheratz	357 41.7	N 29 10.6
	10	101 40.1	328 26.9	N 17 31.8	N 14	5 13	5 49	18 27	19 3	Altair	62 6.6	N 8 54.8
	11	116 42.6	343 26.9	N 17 31.1	N 13	5 14	5 50	18 26	19 1	Antares	112 24.3	S 26 27.8
	12	131 45.1	358 27.0	N 17 30.5	N 12	5 16	5 51	18 25	19 0	Arcturus	145 54.2	N 19 6.9
	13	146 47.5	13 27.0	N 17 29.8	N 11	5 17	5 53	18 23	18 58	Atria	107 24.4	S 69 3.3
	14	161 50.0	28 27.1	N 17 29.2	N 10	5 19	5 54	18 22	18 57	Avior	234 18.0	S 59 33.7
	15	176 52.4	43 27.1	N 17 28.5	N 9	5 20	5 55	18 21	18 56	Bellatrix	278 30.7	N 6 21.7
	16	191 54.9	58 27.2	N 17 27.9	N 8	5 22	5 57	18 19	18 54	Betelgeuse	271 00.0	N 7 24.4
	17	206 57.4	73 27.2	N 17 27.2	N 7	5 23	5 58	18 18	18 53	Canopus	263 56.0	S 52 42.2
	18	221 59.8	88 27.3	N 17 26.6	N 6	5 24	5 59	18 17	18 51	Capella	280 32.6	N 46 0.6
	19	237 2.3	103 27.3	N 17 25.9	N 5	5 26	6 0	18 16	18 50	Deneb	49 30.0	N 45 20.4
	20	252 4.8	118 27.4	N 17 25.2	N 4	5 27	6 2	18 14	18 49	Denebola	182 32.3	N 14 29.2
	21	267 7.2	133 27.4	N 17 24.6	N 3	5 28	6 3	18 13	18 48	Dubhe	193 50.6	N 61 40.2
22	282 9.7	148 27.5	N 17 23.9	N 2	5 30	6 4	18 12	18 46	Elnath	278 11.0	N 28 37.0	
23	297 12.2	163 27.5	N 17 23.3	N 1	5 31	6 5	18 11	18 45	Eltanin	90 45.0	N 51 29.6	
				0	5 32	6 7	18 9	18 44				
	0	312 14.6	178 27.6	N 17 22.6	S 1	5 34	6 8	18 8	18 42	Enif	33 45.4	N 9 57.0
	1	327 17.1	193 27.6	N 17 22.0	S 2	5 35	6 9	18 7	18 41	Formalhaut	15 22.2	S 29 32.1
	2	342 19.6	208 27.7	N 17 21.3	S 3	5 36	6 10	18 6	18 40	Gacrux	171 59.5	S 57 12.1
	3	357 22.0	223 27.8	N 17 20.6	S 4	5 37	6 12	18 4	18 39	Hadar	148 45.7	S 60 27.0
	4	12 24.5	238 27.8	N 17 20.0	S 5	5 38	6 13	18 3	18 38	Hamal	327 59.1	N 23 32.0
	5	27 26.9	253 27.9	N 17 19.3	S 6	5 40	6 14	18 2	18 36	Kaus Aust	83 41.5	S 34 22.4
	6	42 29.4	268 27.9	N 17 18.7	S 7	5 41	6 15	18 1	18 35	Kochab	137 20.2	N 74 5.9
	7	57 31.9	283 28.0	N 17 18.0	S 8	5 42	6 17	18 0	18 34	Markab	13 36.6	N 15 17.5
	8	72 34.3	298 28.0	N 17 17.3	S 9	5 43	6 18	17 58	18 33	Menkent	148 5.7	S 36 26.7
	9	87 36.8	313 28.1	N 17 16.7	S 10	5 44	6 19	17 57	18 32	Miaplacidu	221 40.0	S 69 47.1
	10	102 39.3	328 28.1	N 17 16.0	S 11	5 46	6 20	17 56	18 31	Mirfak	308 38.3	N 49 54.6
	11	117 41.7	343 28.2	N 17 15.3	S 12	5 47	6 22	17 54	18 29	Nunki	75 56.2	S 26 16.4
	12	132 44.2	358 28.3	N 17 14.7	S 13	5 48	6 23	17 53	18 28	Peacock	53 16.4	S 56 40.8
	13	147 46.7	13 28.3	N 17 14.0	S 14	5 49	6 24	17 52	18 27	Pollux	243 26.2	N 27 59.2
	14	162 49.1	28 28.4	N 17 13.3	S 15	5 50	6 26	17 51	18 26	Procyon	244 58.3	N 5 11.2
	15	177 51.6	43 28.4	N 17 12.7	S 20	5 56	6 32	17 44	18 20	Rasalhague	96 4.9	N 12 33.3
	16	192 54.1	58 28.5	N 17 12.0	S 25	6 2	6 40	17 37	18 14	Regulus	207 42.2	N 11 53.5
	17	207 56.5	73 28.5	N 17 11.3	S 30	6 8	6 47	17 29	18 8	Rigel	281 10.9	S 8 11.1
	18	222 59.0	88 28.6	N 17 10.7	S 35	6 14	6 56	17 20	18 2	Rigel Kent	139 47.7	S 60 54.3
	19	238 1.4	103 28.7	N 17 10.0	S 40	6 21	7 6	17 10	17 56	Schedar	349 38.4	N 56 37.2
	20	253 3.9	118 28.7	N 17 9.3	S 45	6 28	7 18	16 59	17 48	Shaula	96 19.6	S 37 6.7
	21	268 6.4	133 28.8	N 17 8.7	S 50	6 37	7 31	16 45	17 40	Sirius	258 32.6	S 16 44.0
	22	283 8.8	148 28.8	N 17 8.0	S 55	6 47	7 49	16 28	17 30	Spica	158 29.8	S 11 14.5
	23	298 11.3	163 28.9	N 17 7.3	S 60	6 59	8 13	16 4	17 18	Vega	80 37.7	N 38 48.2
Sol												
Día	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase			
	m s	m s		h m								
3	6 14	6 12	0.7	12 6		17.5	90					
4	6 9	6 7	0.7	12 6		18.6	82					

Tabla G. Miércoles 5 de agosto – jueves 6 de agosto de 2015.


Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
	h	° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m	h m	h m	° / ' / "	° / ' / "	° / ' / "	
5	0	313 13.8	178 29.0	N 17 6.7	N 60	2 13	3 56	20 18	21 56	Achernar	335 25.7	S 57 9.2			
	1	328 16.2	193 29.0	N 17 6.0	N 55	3 7	4 21	19 53	21 7	Acrux	173 7.9	S 63 11.3			
	2	343 18.7	208 29.1	N 17 5.3	N 50	3 38	4 40	19 35	20 36	Adhara	255 11.7	S 28 59.7			
	3	358 21.2	223 29.1	N 17 4.7	N 45	4 1	4 55	19 20	20 14	Aldebaran	290 47.9	N 16 32.3			
	4	13 23.6	238 29.2	N 17 4.0	N 40	4 19	5 7	19 8	19 56	Alioth	166 19.8	N 55 52.8			
	5	28 26.1	253 29.3	N 17 3.3	N 35	4 33	5 17	18 58	19 42	Alkaid	152 57.9	N 49 14.5			
	6	43 28.5	268 29.3	N 17 2.6	N 30	4 45	5 26	18 50	19 30	Alnair	27 41.6	S 46 52.8			
	7	58 31.0	283 29.4	N 17 2.0	N 25	4 55	5 34	18 42	19 20	Alnilam	275 45.1	S 1 11.6			
	8	73 33.5	298 29.5	N 17 1.3	N 20	5 4	5 41	18 34	19 11	Alphard	217 55.0	S 8 43.6			
	9	88 35.9	313 29.5	N 17 0.6	N 15	5 12	5 48	18 28	19 4	Alpheratz	357 41.7	N 29 10.6			
	10	103 38.4	328 29.6	N 16 59.9	N 14	5 13	5 49	18 26	19 2	Altair	62 6.6	N 8 54.8			
	11	118 40.9	343 29.6	N 16 59.3	N 13	5 15	5 50	18 25	19 1	Antares	112 24.3	S 26 27.8			
	12	133 43.3	358 29.7	N 16 58.6	N 12	5 16	5 52	18 24	18 59	Arcturus	145 54.2	N 19 6.9			
	13	148 45.8	13 29.8	N 16 57.9	N 11	5 18	5 53	18 23	18 58	Atria	107 24.4	S 69 3.3			
	14	163 48.3	28 29.8	N 16 57.2	N 10	5 19	5 54	18 21	18 56	Avior	234 18.0	S 59 33.7			
	15	178 50.7	43 29.9	N 16 56.6	N 9	5 21	5 55	18 20	18 55	Bellatrix	278 30.6	N 6 21.7			
	16	193 53.2	58 30.0	N 16 55.9	N 8	5 22	5 57	18 19	18 54	Betelgeuse	271 00.0	N 7 24.4			
	17	208 55.7	73 30.0	N 16 55.2	N 7	5 23	5 58	18 18	18 52	Canopus	263 55.9	S 52 42.2			
	18	223 58.1	88 30.1	N 16 54.5	N 6	5 25	5 59	18 16	18 51	Capella	280 32.6	N 46 0.6			
	19	239 0.6	103 30.2	N 16 53.9	N 5	5 26	6 0	18 15	18 50	Deneb	49 30.0	N 45 20.4			
	20	254 3.0	118 30.2	N 16 53.2	N 4	5 27	6 2	18 14	18 48	Denebola	182 32.3	N 14 29.2			
	21	269 5.5	133 30.3	N 16 52.5	N 3	5 28	6 3	18 13	18 47	Dubhe	193 50.6	N 61 40.2			
	22	284 8.0	148 30.3	N 16 51.8	N 2	5 30	6 4	18 12	18 46	Elnath	278 11.0	N 28 37.0			
23	299 10.4	163 30.4	N 16 51.1	N 1	5 31	6 5	18 10	18 45	Eltanin	90 45.1	N 51 29.6				
					0	5 32	6 6	18 9	18 43						
6	0	314 12.9	178 30.5	N 16 50.4	S 1	5 33	6 8	18 8	18 42	Enif	33 45.4	N 9 57.0			
	1	329 15.4	193 30.5	N 16 49.8	S 2	5 35	6 9	18 7	18 41	Formalhaut	15 22.2	S 29 32.1			
	2	344 17.8	208 30.6	N 16 49.1	S 3	5 36	6 10	18 6	18 40	Gacrux	171 59.5	S 57 12.1			
	3	359 20.3	223 30.7	N 16 48.4	S 4	5 37	6 11	18 4	18 39	Hadar	148 45.8	S 60 27.0			
	4	14 22.8	238 30.7	N 16 47.7	S 5	5 38	6 12	18 3	18 37	Hamal	327 59.1	N 23 32.1			
	5	29 25.2	253 30.8	N 16 47.0	S 6	5 39	6 14	18 2	18 36	Kaus Aust	83 41.5	S 34 22.4			
	6	44 27.7	268 30.9	N 16 46.4	S 7	5 40	6 15	18 1	18 35	Kochab	137 20.2	N 74 5.9			
	7	59 30.2	283 30.9	N 16 45.7	S 8	5 42	6 16	18 0	18 34	Markab	13 36.6	N 15 17.5			
	8	74 32.6	298 31.0	N 16 45.0	S 9	5 43	6 18	17 58	18 33	Menkent	148 5.7	S 36 26.7			
	9	89 35.1	313 31.1	N 16 44.3	S 10	5 44	6 19	17 57	18 32	Miaplacidu	221 40.0	S 69 47.0			
	10	104 37.5	328 31.2	N 16 43.6	S 11	5 45	6 20	17 56	18 31	Mirfak	308 38.3	N 49 54.6			
	11	119 40.0	343 31.2	N 16 42.9	S 12	5 46	6 21	17 55	18 30	Nunki	75 56.2	S 26 16.4			
	12	134 42.5	358 31.3	N 16 42.2	S 13	5 47	6 22	17 53	18 28	Peacock	53 16.4	S 56 40.8			
	13	149 44.9	13 31.4	N 16 41.6	S 14	5 48	6 24	17 52	18 27	Pollux	243 26.2	N 27 59.2			
	14	164 47.4	28 31.4	N 16 40.9	S 15	5 50	6 25	17 51	18 26	Procyon	244 58.3	N 5 11.2			
	15	179 49.9	43 31.5	N 16 40.2	S 20	5 55	6 31	17 44	18 21	Rasalhague	96 4.9	N 12 33.3			
	16	194 52.3	58 31.6	N 16 39.5	S 25	6 1	6 38	17 38	18 15	Regulus	207 42.2	N 11 53.5			
	17	209 54.8	73 31.6	N 16 38.8	S 30	6 6	6 46	17 30	18 9	Rigel	281 10.9	S 8 11.1			
	18	224 57.3	88 31.7	N 16 38.1	S 35	6 12	6 54	17 22	18 4	Rigel Kent	139 47.7	S 60 54.3			
	19	239 59.7	103 31.8	N 16 37.4	S 40	6 19	7 4	17 12	17 57	Schedar	349 38.4	N 56 37.2			
	20	255 2.2	118 31.9	N 16 36.7	S 45	6 26	7 15	17 1	17 50	Shaula	96 19.6	S 37 6.7			
	21	270 4.6	133 31.9	N 16 36.0	S 50	6 34	7 28	16 48	17 42	Sirius	258 32.6	S 16 44.0			
	22	285 7.1	148 32.0	N 16 35.3	S 55	6 43	7 45	16 31	17 33	Spica	158 29.8	S 11 14.5			
23	300 9.6	163 32.1	N 16 34.7	S 60	6 55	8 8	16 9	17 22	Vega	80 37.7	N 38 48.2				
		Sol						Luna							
Día		Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase					
		m s	m s		h m										
5		6 4	6 1	0.7	12 6		19.6	73							
6		5 58	5 55	0.7	12 6		20.7	62							

Tabla G. Viernes 7 de agosto – sábado 8 de agosto de 2015.


Día	TU	Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		Aries	Sol							Nombre	SHA	Dec.
		GHA	GHA	Dec.								
		° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m		° / ' / "	° / ' / "
7	0	315 12.0	178 32.1	N 16 34.0	N 60	2 21	4 0	20 13	21 47	Achernar	335 25.7	S 57 9.2
	1	330 14.5	193 32.2	N 16 33.3	N 55	3 12	4 25	19 49	21 2	Acrux	173 7.9	S 63 11.3
	2	345 17.0	208 32.3	N 16 32.6	N 50	3 42	4 43	19 31	20 32	Adhara	255 11.7	S 28 59.6
	3	0 19.4	223 32.4	N 16 31.9	N 45	4 4	4 57	19 18	20 10	Aldebaran	290 47.9	N 16 32.3
	4	15 21.9	238 32.4	N 16 31.2	N 40	4 21	5 8	19 6	19 54	Alioth	166 19.9	N 55 52.8
	5	30 24.4	253 32.5	N 16 30.5	N 35	4 35	5 18	18 56	19 40	Alkaid	152 57.9	N 49 14.5
	6	45 26.8	268 32.6	N 16 29.8	N 30	4 46	5 27	18 48	19 29	Alnair	27 41.6	S 46 52.8
	7	60 29.3	283 32.7	N 16 29.1	N 25	4 56	5 35	18 40	19 19	Alnilam	275 45.1	S 1 11.6
	8	75 31.8	298 32.7	N 16 28.4	N 20	5 5	5 42	18 33	19 10	Alphard	217 55.0	S 8 43.6
	9	90 34.2	313 32.8	N 16 27.7	N 15	5 12	5 48	18 27	19 2	Alpheratz	357 41.7	N 29 10.6
	10	105 36.7	328 32.9	N 16 27.0	N 14	5 14	5 49	18 26	19 1	Altair	62 6.6	N 8 54.8
	11	120 39.1	343 33.0	N 16 26.3	N 13	5 15	5 51	18 24	19 0	Antares	112 24.3	S 26 27.8
	12	135 41.6	358 33.0	N 16 25.6	N 12	5 17	5 52	18 23	18 58	Arcturus	145 54.2	N 19 6.9
	13	150 44.1	13 33.1	N 16 24.9	N 11	5 18	5 53	18 22	18 57	Atria	107 24.4	S 69 3.3
	14	165 46.5	28 33.2	N 16 24.2	N 10	5 20	5 54	18 21	18 55	Avior	234 18.0	S 59 33.7
	15	180 49.0	43 33.3	N 16 23.5	N 9	5 21	5 56	18 19	18 54	Bellatrix	278 30.6	N 6 21.7
	16	195 51.5	58 33.3	N 16 22.8	N 8	5 22	5 57	18 18	18 53	Betelgeuse	271 00.0	N 7 24.4
	17	210 53.9	73 33.4	N 16 22.1	N 7	5 23	5 58	18 17	18 52	Canopus	263 55.9	S 52 42.2
	18	225 56.4	88 33.5	N 16 21.4	N 6	5 25	5 59	18 16	18 50	Capella	280 32.6	N 46 0.6
	19	240 58.9	103 33.6	N 16 20.7	N 5	5 26	6 0	18 15	18 49	Deneb	49 29.9	N 45 20.4
	20	256 1.3	118 33.6	N 16 20.0	N 4	5 27	6 2	18 14	18 48	Denebola	182 32.3	N 14 29.2
	21	271 3.8	133 33.7	N 16 19.3	N 3	5 28	6 3	18 12	18 47	Dubhe	193 50.6	N 61 40.2
	22	286 6.3	148 33.8	N 16 18.6	N 2	5 30	6 4	18 11	18 45	Elnath	278 11.0	N 28 37.0
23	301 8.7	163 33.9	N 16 17.9	N 1	5 31	6 5	18 10	18 44	Eltanin	90 45.1	N 51 29.7	
					0	5 32	6 6	18 9	18 43			
					S 1	5 33	6 7	18 8	18 42	Enif	33 45.3	N 9 57.0
					S 2	5 34	6 9	18 7	18 41	Formalhaut	15 22.2	S 29 32.1
					S 3	5 36	6 10	18 6	18 40	Gacrux	171 59.5	S 57 12.1
					S 4	5 37	6 11	18 4	18 38	Hadar	148 45.8	S 60 27.0
					S 5	5 38	6 12	18 3	18 37	Hamal	327 59.0	N 23 32.1
					S 6	5 39	6 13	18 2	18 36	Kaus Aust	83 41.5	S 34 22.4
					S 7	5 40	6 14	18 1	18 35	Kochab	137 20.3	N 74 5.9
					S 8	5 41	6 16	18 0	18 34	Markab	13 36.6	N 15 17.5
					S 9	5 42	6 17	17 58	18 33	Menkent	148 5.7	S 36 26.7
					S 10	5 43	6 18	17 57	18 32	Miaplacidu	221 40.0	S 69 47.0
					S 11	5 44	6 19	17 56	18 31	Mirfak	308 38.3	N 49 54.6
					S 12	5 46	6 20	17 55	18 30	Nunki	75 56.2	S 26 16.4
					S 13	5 47	6 22	17 54	18 29	Peacock	53 16.4	S 56 40.8
					S 14	5 48	6 23	17 53	18 28	Pollux	243 26.1	N 27 59.1
					S 15	5 49	6 24	17 51	18 27	Procyon	244 58.3	N 5 11.2
					S 20	5 54	6 30	17 45	18 21	Rasalhague	96 4.9	N 12 33.3
					S 25	5 59	6 37	17 38	18 16	Regulus	207 42.2	N 11 53.5
					S 30	6 5	6 44	17 31	18 11	Rigel	281 10.8	S 8 11.1
					S 35	6 11	6 52	17 23	18 5	Rigel Kent	139 47.7	S 60 54.3
					S 40	6 17	7 2	17 14	17 59	Schedar	349 38.4	N 56 37.2
					S 45	6 23	7 12	17 3	17 52	Shaula	96 19.6	S 37 6.7
					S 50	6 31	7 25	16 51	17 45	Sirius	258 32.6	S 16 44.0
					S 55	6 40	7 41	16 35	17 36	Spica	158 29.8	S 11 14.5
					S 60	6 51	8 3	16 13	17 26	Vega	80 37.7	N 38 48.2
Día		Sol			Luna							
		Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase		
		m s	m s		h m							
7		5 51	5 48	0.7	12 6		21.7	51				
8		5 44	5 40	0.7	12 6		22.8	40				

Tabla G. Domingo 9 de agosto – lunes 10 de agosto de 2015.


Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
		° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m	h m	h m	° / ' / "	° / ' / "	° / ' / "	
9	0	317 10.3	178 35.9	N 16 0.2	N 60	2 28	4 5	20 8	21 39	Achernar	335 25.6	S 57 9.2			
	1	332 12.8	193 36.0	N 15 59.5	N 55	3 17	4 28	19 45	20 56	Acrux	173 7.9	S 63 11.3			
	2	347 15.2	208 36.1	N 15 58.7	N 50	3 45	4 46	19 28	20 28	Adhara	255 11.7	S 28 59.6			
	3	2 17.7	223 36.1	N 15 58.0	N 45	4 7	4 59	19 15	20 7	Aldebaran	290 47.8	N 16 32.3			
	4	17 20.2	238 36.2	N 15 57.3	N 40	4 23	5 10	19 4	19 51	Alioth	166 19.9	N 55 52.8			
	5	32 22.6	253 36.3	N 15 56.6	N 35	4 36	5 20	18 54	19 38	Alkaid	152 57.9	N 49 14.5			
	6	47 25.1	268 36.4	N 15 55.9	N 30	4 47	5 28	18 46	19 27	Alnair	27 41.6	S 46 52.8			
	7	62 27.6	283 36.5	N 15 55.2	N 25	4 57	5 36	18 39	19 17	Alnilam	275 45.1	S 1 11.6			
	8	77 30.0	298 36.6	N 15 54.4	N 20	5 5	5 42	18 32	19 9	Alphard	217 55.0	S 8 43.6			
	9	92 32.5	313 36.7	N 15 53.7	N 15	5 13	5 49	18 26	19 1	Alpheratz	357 41.7	N 29 10.6			
	10	107 35.0	328 36.7	N 15 53.0	N 14	5 14	5 50	18 25	19 0	Altair	62 6.6	N 8 54.8			
	11	122 37.4	343 36.8	N 15 52.3	N 13	5 16	5 51	18 23	18 59	Antares	112 24.3	S 26 27.8			
	12	137 39.9	358 36.9	N 15 51.6	N 12	5 17	5 52	18 22	18 57	Arcturus	145 54.2	N 19 6.9			
	13	152 42.4	13 37.0	N 15 50.8	N 11	5 18	5 53	18 21	18 56	Atria	107 24.4	S 69 3.3			
	14	167 44.8	28 37.1	N 15 50.1	N 10	5 20	5 55	18 20	18 55	Avior	234 18.0	S 59 33.6			
	15	182 47.3	43 37.2	N 15 49.4	N 9	5 21	5 56	18 19	18 53	Bellatrix	278 30.6	N 6 21.7			
	16	197 49.7	58 37.3	N 15 48.7	N 8	5 22	5 57	18 18	18 52	Betelgeuse	270 59.9	N 7 24.4			
	17	212 52.2	73 37.4	N 15 48.0	N 7	5 24	5 58	18 17	18 51	Canopus	263 55.9	S 52 42.2			
	18	227 54.7	88 37.4	N 15 47.2	N 6	5 25	5 59	18 15	18 50	Capella	280 32.5	N 46 0.6			
	19	242 57.1	103 37.5	N 15 46.5	N 5	5 26	6 0	18 14	18 48	Deneb	49 29.9	N 45 20.4			
	20	257 59.6	118 37.6	N 15 45.8	N 4	5 27	6 1	18 13	18 47	Denebola	182 32.3	N 14 29.2			
	21	273 2.1	133 37.7	N 15 45.1	N 3	5 28	6 3	18 12	18 46	Dubhe	193 50.6	N 61 40.1			
	22	288 4.5	148 37.8	N 15 44.3	N 2	5 30	6 4	18 11	18 45	Elnath	278 11.0	N 28 37.0			
23	303 7.0	163 37.9	N 15 43.6	N 1	5 31	6 5	18 10	18 44	Eltanin	90 45.1	N 51 29.7				
10	0	318 9.5	178 38.0	N 15 42.9	S 1	5 33	6 7	18 8	18 42	Enif	33 45.3	N 9 57.0			
	1	333 11.9	193 38.1	N 15 42.2	S 2	5 34	6 8	18 6	18 40	Formalhaut	15 22.2	S 29 32.1			
	2	348 14.4	208 38.2	N 15 41.4	S 3	5 35	6 9	18 5	18 39	Gacrux	171 59.5	S 57 12.1			
	3	3 16.9	223 38.3	N 15 40.7	S 4	5 36	6 10	18 4	18 38	Hadar	148 45.8	S 60 27.0			
	4	18 19.3	238 38.3	N 15 40.0	S 5	5 37	6 12	18 3	18 37	Hamal	327 59.0	N 23 32.1			
	5	33 21.8	253 38.4	N 15 39.3	S 6	5 39	6 13	18 2	18 36	Kaus Aust	83 41.5	S 34 22.4			
	6	48 24.2	268 38.5	N 15 38.5	S 7	5 40	6 14	18 1	18 35	Kochab	137 20.3	N 74 5.9			
	7	63 26.7	283 38.6	N 15 37.8	S 8	5 41	6 15	18 0	18 34	Markab	13 36.6	N 15 17.5			
	8	78 29.2	298 38.7	N 15 37.1	S 9	5 42	6 16	17 58	18 33	Menkent	148 5.7	S 36 26.7			
	9	93 31.6	313 38.8	N 15 36.3	S 10	5 43	6 17	17 58	18 32	Miaplacidu	221 40.0	S 69 47.0			
	10	108 34.1	328 38.9	N 15 35.6	S 11	5 44	6 18	17 56	18 31	Mirfak	308 38.2	N 49 54.6			
	11	123 36.6	343 39.0	N 15 34.9	S 12	5 45	6 19	17 55	18 30	Nunki	75 56.2	S 26 16.4			
	12	138 39.0	358 39.1	N 15 34.2	S 13	5 46	6 21	17 54	18 29	Peacock	53 16.4	S 56 40.9			
	13	153 41.5	13 39.2	N 15 33.4	S 14	5 47	6 22	17 53	18 28	Pollux	243 26.1	N 27 59.1			
	14	168 44.0	28 39.3	N 15 32.7	S 15	5 48	6 23	17 52	18 27	Procyon	244 58.3	N 5 11.2			
	15	183 46.4	43 39.4	N 15 32.0	S 20	5 53	6 29	17 46	18 22	Rasalhague	96 4.9	N 12 33.3			
	16	198 48.9	58 39.5	N 15 31.2	S 25	5 58	6 36	17 39	18 17	Regulus	207 42.2	N 11 53.5			
	17	213 51.3	73 39.5	N 15 30.5	S 30	6 3	6 43	17 32	18 12	Rigel	281 10.8	S 8 11.1			
	18	228 53.8	88 39.6	N 15 29.8	S 35	6 9	6 50	17 25	18 6	Rigel Kent	139 47.7	S 60 54.3			
	19	243 56.3	103 39.7	N 15 29.0	S 40	6 15	6 59	17 16	18 1	Schedar	349 38.4	N 56 37.2			
	20	258 58.7	118 39.8	N 15 28.3	S 45	6 21	7 9	17 6	17 54	Shaula	96 19.6	S 37 6.7			
	21	274 1.2	133 39.9	N 15 27.6	S 50	6 28	7 22	16 54	17 47	Sirius	258 32.6	S 16 44.0			
	22	289 3.7	148 40.0	N 15 26.8	S 55	6 36	7 37	16 38	17 39	Spica	158 29.8	S 11 14.5			
23	304 6.1	163 40.1	N 15 26.1	S 60	6 46	7 58	16 18	17 29	Vega	80 37.7	N 38 48.2				
		Sol			Luna										
Día	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase						
	m s	m s		h m											
9	5 36	5 32	0.7	12 6		23.9	29								
10	5 28	5 24	0.7	12 5		24.9	20								

Tabla G. Martes 11 de agosto – miércoles 12 de agosto de 2015.


Día	TU	Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		Aries	Sol							Nombre	SHA	Dec.
		GHA	GHA	Dec.		h m	h m	h m	h m		° / ' / "	° / ' / "
11	h				°							
	0	319 8.6	178 40.2	N 15 25.4	N 60	2 36	4 10	20 2	21 31	Achernar	335 25.6	S 57 9.2
	1	334 11.1	193 40.3	N 15 24.6	N 55	3 21	4 32	19 41	20 51	Acruz	173 7.9	S 63 11.3
	2	349 13.5	208 40.4	N 15 23.9	N 50	3 49	4 49	19 24	20 24	Adhara	255 11.7	S 28 59.6
	3	4 16.0	223 40.5	N 15 23.1	N 45	4 9	5 2	19 12	20 4	Aldebaran	290 47.8	N 16 32.3
	4	19 18.5	238 40.6	N 15 22.4	N 40	4 25	5 12	19 1	19 48	Alioth	166 19.9	N 55 52.8
	5	34 20.9	253 40.7	N 15 21.7	N 35	4 38	5 21	18 52	19 35	Alkaid	152 57.9	N 49 14.5
	6	49 23.4	268 40.8	N 15 20.9	N 30	4 49	5 29	18 44	19 25	Alnair	27 41.5	S 46 52.8
	7	64 25.8	283 40.9	N 15 20.2	N 25	4 58	5 36	18 37	19 15	Alnilam	275 45.1	S 1 11.6
	8	79 28.3	298 41.0	N 15 19.5	N 20	5 6	5 43	18 31	19 7	Alphard	217 55.0	S 8 43.6
	9	94 30.8	313 41.1	N 15 18.7	N 15	5 13	5 49	18 25	19 0	Alpheratz	357 41.7	N 29 10.6
	10	109 33.2	328 41.2	N 15 18.0	N 14	5 15	5 50	18 24	18 59	Altair	62 6.6	N 8 54.8
	11	124 35.7	343 41.3	N 15 17.2	N 13	5 16	5 51	18 23	18 58	Antares	112 24.3	S 26 27.8
	12	139 38.2	358 41.4	N 15 16.5	N 12	5 17	5 52	18 21	18 56	Arcturus	145 54.2	N 19 6.9
	13	154 40.6	13 41.5	N 15 15.8	N 11	5 19	5 54	18 20	18 55	Atria	107 24.5	S 69 3.3
	14	169 43.1	28 41.6	N 15 15.0	N 10	5 20	5 55	18 19	18 54	Avior	234 18.0	S 59 33.6
	15	184 45.6	43 41.7	N 15 14.3	N 9	5 21	5 56	18 18	18 53	Bellatrix	278 30.6	N 6 21.7
	16	199 48.0	58 41.8	N 15 13.5	N 8	5 23	5 57	18 17	18 51	Betelgeuse	270 59.9	N 7 24.4
	17	214 50.5	73 41.9	N 15 12.8	N 7	5 24	5 58	18 16	18 50	Canopus	263 55.9	S 52 42.2
	18	229 53.0	88 42.0	N 15 12.0	N 6	5 25	5 59	18 15	18 49	Capella	280 32.5	N 46 0.6
	19	244 55.4	103 42.1	N 15 11.3	N 5	5 26	6 0	18 14	18 48	Deneb	49 29.9	N 45 20.4
	20	259 57.9	118 42.2	N 15 10.6	N 4	5 27	6 1	18 13	18 47	Denebola	182 32.3	N 14 29.2
	21	275 0.3	133 42.3	N 15 9.8	N 3	5 28	6 2	18 12	18 46	Dubhe	193 50.6	N 61 40.1
22	290 2.8	148 42.4	N 15 9.1	N 2	5 29	6 3	18 10	18 44	Elnath	278 11.0	N 28 37.0	
23	305 5.3	163 42.5	N 15 8.3	N 1	5 31	6 5	18 9	18 43	Eltanin	90 45.1	N 51 29.7	
12	0	320 7.7	178 42.6	N 15 7.6	S 1	5 33	6 7	18 7	18 41	Enif	33 45.3	N 9 57.0
	1	335 10.2	193 42.7	N 15 6.8	S 2	5 34	6 8	18 6	18 40	Formalhaut	15 22.2	S 29 32.1
	2	350 12.7	208 42.8	N 15 6.1	S 3	5 35	6 9	18 5	18 39	Gacrux	171 59.5	S 57 12.1
	3	5 15.1	223 42.9	N 15 5.3	S 4	5 36	6 10	18 4	18 38	Hadar	148 45.8	S 60 27.0
	4	20 17.6	238 43.0	N 15 4.6	S 5	5 37	6 11	18 3	18 37	Hamal	327 59.0	N 23 32.1
	5	35 20.1	253 43.1	N 15 3.8	S 6	5 38	6 12	18 2	18 36	Kaus Aust	83 41.5	S 34 22.4
	6	50 22.5	268 43.2	N 15 3.1	S 7	5 39	6 13	18 1	18 35	Kochab	137 20.3	N 74 5.9
	7	65 25.0	283 43.3	N 15 2.3	S 8	5 40	6 14	18 0	18 34	Markab	13 36.6	N 15 17.5
	8	80 27.4	298 43.4	N 15 1.6	S 9	5 41	6 16	17 59	18 33	Menkent	148 5.7	S 36 26.7
	9	95 29.9	313 43.5	N 15 0.8	S 10	5 42	6 16	17 58	18 32	Miaplacidu	221 40.0	S 69 47.0
	10	110 32.4	328 43.6	N 15 0.1	S 11	5 43	6 18	17 57	18 31	Mirfak	308 38.2	N 49 54.6
	11	125 34.8	343 43.7	N 14 59.3	S 12	5 44	6 19	17 55	18 30	Nunki	75 56.2	S 26 16.4
	12	140 37.3	358 43.8	N 14 58.6	S 13	5 45	6 20	17 54	18 29	Peacock	53 16.4	S 56 40.9
	13	155 39.8	13 43.9	N 14 57.8	S 14	5 46	6 21	17 53	18 28	Pollux	243 26.1	N 27 59.1
	14	170 42.2	28 44.0	N 14 57.1	S 15	5 47	6 22	17 52	18 27	Procyon	244 58.3	N 5 11.2
	15	185 44.7	43 44.1	N 14 56.3	S 20	5 52	6 28	17 46	18 22	Rasalhague	96 4.9	N 12 33.3
	16	200 47.2	58 44.2	N 14 55.6	S 25	5 57	6 34	17 40	18 17	Regulus	207 42.2	N 11 53.5
	17	215 49.6	73 44.3	N 14 54.8	S 30	6 2	6 41	17 34	18 13	Rigel	281 10.8	S 8 11.1
	18	230 52.1	88 44.5	N 14 54.1	S 35	6 7	6 48	17 26	18 8	Rigel Kent	139 47.7	S 60 54.3
	19	245 54.6	103 44.6	N 14 53.3	S 40	6 12	6 57	17 18	18 2	Schedar	349 38.4	N 56 37.2
	20	260 57.0	118 44.7	N 14 52.6	S 45	6 18	7 6	17 8	17 56	Shaula	96 19.6	S 37 6.7
	21	275 59.5	133 44.8	N 14 51.8	S 50	6 25	7 18	16 56	17 50	Sirius	258 32.5	S 16 44.0
	22	291 1.9	148 44.9	N 14 51.1	S 55	6 32	7 33	16 42	17 42	Spica	158 29.8	S 11 14.4
23	306 4.4	163 45.0	N 14 50.3	S 60	6 42	7 52	16 22	17 33	Vega	80 37.7	N 38 48.2	
Día	Sol				Luna							
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día	Porcentaje de iluminación		Fase				
11	m s	m s		h m								
12	5 19	5 14	0.8	12 5	25.9	12						
	5 10	5 5	0.8	12 5	26.9	6						

Tabla G. Jueves 13 de agosto – viernes 14 de agosto de 2015.


Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
		° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m	h m	h m	° / ' / "	° / ' / "		
13	0	321 6.9	178 45.1	N 14 49.6	N 60	2 47	4 15	19 57	21 23	Achernar	335 25.6	S 57 9.2			
	1	336 9.3	193 45.2	N 14 48.8	N 55	3 26	4 36	19 36	20 45	Acruz	173 8.0	S 63 11.3			
	2	351 11.8	208 45.3	N 14 48.0	N 50	3 53	4 52	19 21	20 19	Adhara	255 11.7	S 28 59.6			
	3	6 14.3	223 45.4	N 14 47.3	N 45	4 12	5 4	19 9	20 0	Aldebaran	290 47.8	N 16 32.3			
	4	21 16.7	238 45.5	N 14 46.5	N 40	4 27	5 14	18 58	19 45	Alioth	166 19.9	N 55 52.8			
	5	36 19.2	253 45.6	N 14 45.8	N 35	4 40	5 23	18 50	19 33	Alkaid	152 57.9	N 49 14.5			
	6	51 21.7	268 45.7	N 14 45.0	N 30	4 50	5 30	18 42	19 22	Alnair	27 41.5	S 46 52.8			
	7	66 24.1	283 45.8	N 14 44.2	N 25	4 59	5 37	18 36	19 14	Alnilam	275 45.1	S 1 11.6			
	8	81 26.6	298 46.0	N 14 43.5	N 20	5 7	5 44	18 29	19 6	Alphard	217 55.0	S 8 43.6			
	9	96 29.1	313 46.1	N 14 42.7	N 15	5 14	5 49	18 24	18 59	Alpheratz	357 41.7	N 29 10.6			
	10	111 31.5	328 46.2	N 14 42.0	N 14	5 15	5 50	18 23	18 58	Altair	62 6.6	N 8 54.8			
	11	126 34.0	343 46.3	N 14 41.2	N 13	5 17	5 52	18 22	18 56	Antares	112 24.3	S 26 27.8			
	12	141 36.4	358 46.4	N 14 40.4	N 12	5 18	5 53	18 20	18 55	Arcturus	145 54.2	N 19 6.9			
	13	156 38.9	13 46.5	N 14 39.7	N 11	5 19	5 54	18 19	18 54	Atria	107 24.5	S 69 3.3			
	14	171 41.4	28 46.6	N 14 38.9	N 10	5 20	5 55	18 18	18 53	Avior	234 17.9	S 59 33.6			
	15	186 43.8	43 46.7	N 14 38.2	N 9	5 21	5 56	18 17	18 52	Bellatrix	278 30.6	N 6 21.7			
	16	201 46.3	58 46.8	N 14 37.4	N 8	5 23	5 57	18 16	18 50	Betelgeuse	270 59.9	N 7 24.4			
	17	216 48.8	73 46.9	N 14 36.6	N 7	5 24	5 58	18 15	18 49	Canopus	263 55.9	S 52 42.2			
	18	231 51.2	88 47.1	N 14 35.9	N 6	5 25	5 59	18 14	18 48	Capella	280 32.5	N 46 0.6			
	19	246 53.7	103 47.2	N 14 35.1	N 5	5 26	6 0	18 13	18 47	Deneb	49 29.9	N 45 20.4			
	20	261 56.2	118 47.3	N 14 34.3	N 4	5 27	6 1	18 12	18 46	Denebola	182 32.3	N 14 29.2			
	21	276 58.6	133 47.4	N 14 33.6	N 3	5 28	6 2	18 11	18 45	Dubhe	193 50.6	N 61 40.1			
	22	292 1.1	148 47.5	N 14 32.8	N 2	5 29	6 3	18 10	18 44	Elnath	278 10.9	N 28 37.0			
23	307 3.5	163 47.6	N 14 32.1	N 1	5 30	6 4	18 9	18 43	Eltanin	90 45.1	N 51 29.7				
					0	5 31	6 5	18 8	18 42						
14	0	322 6.0	178 47.7	N 14 31.3	S 1	5 33	6 6	18 7	18 41	Enif	33 45.3	N 9 57.0			
	1	337 8.5	193 47.8	N 14 30.5	S 2	5 34	6 7	18 6	18 40	Formalhaut	15 22.2	S 29 32.1			
	2	352 10.9	208 48.0	N 14 29.8	S 3	5 35	6 8	18 5	18 39	Gacrux	171 59.5	S 57 12.1			
	3	7 13.4	223 48.1	N 14 29.0	S 4	5 36	6 9	18 4	18 38	Hadar	148 45.8	S 60 27.0			
	4	22 15.9	238 48.2	N 14 28.2	S 5	5 37	6 10	18 3	18 37	Hamal	327 59.0	N 23 32.1			
	5	37 18.3	253 48.3	N 14 27.5	S 6	5 38	6 11	18 2	18 36	Kaus Aust	83 41.5	S 34 22.4			
	6	52 20.8	268 48.4	N 14 26.7	S 7	5 39	6 13	18 1	18 35	Kochab	137 20.4	N 74 5.9			
	7	67 23.3	283 48.5	N 14 25.9	S 8	5 39	6 14	18 0	18 34	Markab	13 36.5	N 15 17.5			
	8	82 25.7	298 48.6	N 14 25.2	S 9	5 41	6 15	17 59	18 33	Menkent	148 5.7	S 36 26.7			
	9	97 28.2	313 48.8	N 14 24.4	S 10	5 41	6 16	17 58	18 32	Miaplacidu	221 40.0	S 69 47.0			
	10	112 30.7	328 48.9	N 14 23.6	S 11	5 42	6 17	17 57	18 31	Mirfak	308 38.2	N 49 54.6			
	11	127 33.1	343 49.0	N 14 22.8	S 12	5 43	6 18	17 56	18 30	Nunki	75 56.2	S 26 16.4			
	12	142 35.6	358 49.1	N 14 22.1	S 13	5 44	6 19	17 55	18 29	Peacock	53 16.4	S 56 40.9			
	13	157 38.0	13 49.2	N 14 21.3	S 14	5 45	6 20	17 54	18 28	Pollux	243 26.1	N 27 59.1			
	14	172 40.5	28 49.3	N 14 20.5	S 15	5 46	6 21	17 52	18 27	Procyon	244 58.3	N 5 11.2			
	15	187 43.0	43 49.5	N 14 19.8	S 20	5 51	6 27	17 47	18 23	Rasalhague	96 4.9	N 12 33.4			
	16	202 45.4	58 49.6	N 14 19.0	S 25	5 55	6 33	17 41	18 18	Regulus	207 42.2	N 11 53.5			
	17	217 47.9	73 49.7	N 14 18.2	S 30	6 0	6 39	17 35	18 14	Rigel	281 10.8	S 8 11.1			
	18	232 50.4	88 49.8	N 14 17.4	S 35	6 5	6 46	17 28	18 9	Rigel Kent	139 47.8	S 60 54.3			
	19	247 52.8	103 49.9	N 14 16.7	S 40	6 10	6 54	17 20	18 4	Schedar	349 38.3	N 56 37.2			
	20	262 55.3	118 50.0	N 14 15.9	S 45	6 15	7 3	17 10	17 59	Shaula	96 19.7	S 37 6.7			
	21	277 57.8	133 50.2	N 14 15.1	S 50	6 21	7 15	16 59	17 53	Sirius	258 32.5	S 16 44.0			
	22	293 0.2	148 50.3	N 14 14.3	S 55	6 28	7 29	16 45	17 46	Spica	158 29.8	S 11 14.4			
23	308 2.7	163 50.4	N 14 13.6	S 60	6 37	7 47	16 27	17 37	Vega	80 37.7	N 38 48.2				
		Sol						Luna							
Día	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase						
13	m s	m s		h m											
14	4 59	4 54	0.8	12 5		27.9	2								
	4 49	4 43	0.8	12 5		28.9	0								

Tabla G. Sábado 15 de agosto – domingo 16 de agosto de 2015.

Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
		° /	° /	° /	°	h m	h m	h m	h m						
15	0	323 5.2	178 50.5	N 14 12.8	N 60	2 54	4 20	19 51	21 16	Achernar	335 25.6	S 57 9.2			
	1	338 7.6	193 50.6	N 14 12.0	N 55	3 31	4 40	19 32	20 40	Acrux	173 8.0	S 63 11.3			
	2	353 10.1	208 50.8	N 14 11.2	N 50	3 56	4 54	19 17	20 15	Adhara	255 11.7	S 28 59.6			
	3	8 12.5	223 50.9	N 14 10.5	N 45	4 15	5 6	19 5	19 56	Aldebaran	290 47.8	N 16 32.3			
	4	23 15.0	238 51.0	N 14 9.7	N 40	4 30	5 16	18 56	19 42	Alioth	166 19.9	N 55 52.8			
	5	38 17.5	253 51.1	N 14 8.9	N 35	4 42	5 24	18 48	19 30	Alkaid	152 58.0	N 49 14.5			
	6	53 19.9	268 51.2	N 14 8.1	N 30	4 52	5 32	18 40	19 20	Alnair	27 41.5	S 46 52.8			
	7	68 22.4	283 51.3	N 14 7.4	N 25	5 0	5 38	18 34	19 12	Alnilam	275 45.0	S 1 11.6			
	8	83 24.9	298 51.5	N 14 6.6	N 20	5 8	5 44	18 28	19 4	Alphard	217 54.9	S 8 43.6			
	9	98 27.3	313 51.6	N 14 5.8	N 15	5 14	5 50	18 23	18 58	Alpheratz	357 41.7	N 29 10.6			
	10	113 29.8	328 51.7	N 14 5.0	N 14	5 16	5 51	18 22	18 57	Altair	62 6.6	N 8 54.8			
	11	128 32.3	343 51.8	N 14 4.2	N 13	5 17	5 52	18 21	18 55	Antares	112 24.3	S 26 27.8			
	12	143 34.7	358 52.0	N 14 3.5	N 12	5 18	5 53	18 19	18 54	Arcturus	145 54.2	N 19 6.9			
	13	158 37.2	13 52.1	N 14 2.7	N 11	5 19	5 54	18 18	18 53	Atria	107 24.5	S 69 3.3			
	14	173 39.6	28 52.2	N 14 1.9	N 10	5 20	5 55	18 17	18 52	Avior	234 17.9	S 59 33.6			
	15	188 42.1	43 52.3	N 14 1.1	N 9	5 22	5 56	18 16	18 51	Bellatrix	278 30.6	N 6 21.7			
	16	203 44.6	58 52.4	N 14 0.3	N 8	5 23	5 57	18 15	18 50	Betelgeuse	270 59.9	N 7 24.4			
	17	218 47.0	73 52.6	N 13 59.6	N 7	5 24	5 58	18 14	18 48	Canopus	263 55.9	S 52 42.2			
	18	233 49.5	88 52.7	N 13 58.8	N 6	5 25	5 59	18 13	18 47	Capella	280 32.5	N 46 0.6			
	19	248 52.0	103 52.8	N 13 58.0	N 5	5 26	6 0	18 12	18 46	Deneb	49 30.0	N 45 20.4			
	20	263 54.4	118 52.9	N 13 57.2	N 4	5 27	6 1	18 11	18 45	Denebola	182 32.3	N 14 29.2			
	21	278 56.9	133 53.1	N 13 56.4	N 3	5 28	6 2	18 10	18 44	Dubhe	193 50.6	N 61 40.1			
	22	293 59.4	148 53.2	N 13 55.6	N 2	5 29	6 3	18 10	18 43	Elnath	278 10.9	N 28 37.0			
23	309 1.8	163 53.3	N 13 54.9	N 1	5 30	6 4	18 9	18 42	Eltanin	90 45.1	N 51 29.7				
					0	5 31	6 5	18 8	18 41						
					S 1	5 32	6 6	18 7	18 40	Enif	33 45.3	N 9 57.0			
					S 2	5 33	6 7	18 6	18 39	Formalhaut	15 22.1	S 29 32.1			
					S 3	5 34	6 8	18 5	18 38	Gacrux	171 59.5	S 57 12.1			
					S 4	5 35	6 9	18 4	18 37	Hadar	148 45.8	S 60 27.0			
					S 5	5 36	6 10	18 3	18 36	Hamal	327 59.0	N 23 32.1			
					S 6	5 37	6 11	18 2	18 36	Kaus Aust	83 41.5	S 34 22.4			
					S 7	5 38	6 12	18 1	18 35	Kochab	137 20.4	N 74 5.9			
					S 8	5 39	6 13	18 0	18 34	Markab	13 36.5	N 15 17.5			
					S 9	5 40	6 14	17 59	18 33	Menkent	148 5.7	S 36 26.7			
					S 10	5 41	6 15	17 58	18 32	Miaplacidu	221 40.0	S 69 47.0			
					S 11	5 42	6 16	17 57	18 31	Mirfak	308 38.2	N 49 54.7			
					S 12	5 42	6 17	17 56	18 30	Nunki	75 56.2	S 26 16.4			
					S 13	5 43	6 18	17 55	18 29	Peacock	53 16.4	S 56 40.9			
					S 14	5 44	6 19	17 54	18 28	Pollux	243 26.1	N 27 59.1			
					S 15	5 45	6 20	17 53	18 28	Procyon	244 58.3	N 5 11.3			
					S 20	5 49	6 25	17 47	18 23	Rasalhague	96 4.9	N 12 33.4			
					S 25	5 54	6 31	17 42	18 19	Regulus	207 42.2	N 11 53.5			
					S 30	5 58	6 37	17 36	18 15	Rigel	281 10.8	S 8 11.1			
					S 35	6 3	6 44	17 29	18 10	Rigel Kent	139 47.8	S 60 54.3			
					S 40	6 7	6 51	17 22	18 6	Schedar	349 38.3	N 56 37.2			
					S 45	6 12	7 0	17 13	18 1	Shaula	96 19.7	S 37 6.7			
					S 50	6 18	7 11	17 2	17 55	Sirius	258 32.5	S 16 44.0			
					S 55	6 24	7 24	16 49	17 49	Spica	158 29.8	S 11 14.4			
					S 60	6 32	7 42	16 32	17 41	Vega	80 37.7	N 38 48.2			
		Sol			Luna										
Día	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día	Porcentaje de iluminación		Fase							
	m s	m s		h m											
15	4 38	4 32	0.8	12 5	0.3	0		●							
16	4 26	4 20	0.8	12 4	1.1	1									

Tabla G. Lunes 17 de agosto – martes 18 de agosto de 2015.


Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
17	h	° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m	h m	h m	h m	° / ' / "	° / ' / "	° / ' / "
	0	325 3.4	178 56.5	N 13 35.1	N 60	3 1	4 24	19 45	21 8	Achernar	335 25.5	S 57 9.2			
	1	340 5.9	193 56.6	N 13 34.3	N 55	3 36	4 43	19 27	20 34	Acruz	173 8.0	S 63 11.3			
	2	355 8.4	208 56.7	N 13 33.5	N 50	4 0	4 57	19 13	20 10	Adhara	255 11.6	S 28 59.6			
	3	10 10.8	223 56.9	N 13 32.8	N 45	4 18	5 9	19 2	19 53	Aldebaran	290 47.8	N 16 32.3			
	4	25 13.3	238 57.0	N 13 32.0	N 40	4 32	5 18	18 53	19 39	Alioth	166 19.9	N 55 52.8			
	5	40 15.8	253 57.1	N 13 31.2	N 35	4 43	5 26	18 45	19 28	Alkaid	152 58.0	N 49 14.5			
	6	55 18.2	268 57.3	N 13 30.4	N 30	4 53	5 33	18 38	19 18	Alnair	27 41.5	S 46 52.8			
	7	70 20.7	283 57.4	N 13 29.6	N 25	5 1	5 39	18 32	19 10	Alnilam	275 45.0	S 1 11.6			
	8	85 23.1	298 57.5	N 13 28.8	N 20	5 8	5 45	18 27	19 3	Alphard	217 54.9	S 8 43.6			
	9	100 25.6	313 57.6	N 13 28.0	N 15	5 15	5 50	18 21	18 57	Alpheratz	357 41.7	N 29 10.6			
	10	115 28.1	328 57.8	N 13 27.2	N 14	5 16	5 51	18 20	18 55	Altair	62 6.6	N 8 54.8			
	11	130 30.5	343 57.9	N 13 26.4	N 13	5 17	5 52	18 19	18 54	Antares	112 24.3	S 26 27.8			
	12	145 33.0	358 58.0	N 13 25.6	N 12	5 18	5 53	18 18	18 53	Arcturus	145 54.2	N 19 6.9			
	13	160 35.5	13 58.2	N 13 24.8	N 11	5 20	5 54	18 18	18 52	Atria	107 24.5	S 69 3.3			
	14	175 37.9	28 58.3	N 13 24.0	N 10	5 21	5 55	18 17	18 51	Avior	234 17.9	S 59 33.6			
	15	190 40.4	43 58.4	N 13 23.2	N 9	5 22	5 56	18 16	18 50	Bellatrix	278 30.6	N 6 21.7			
	16	205 42.9	58 58.6	N 13 22.4	N 8	5 23	5 57	18 15	18 49	Betelgeuse	270 59.9	N 7 24.5			
	17	220 45.3	73 58.7	N 13 21.6	N 7	5 24	5 58	18 14	18 48	Canopus	263 55.9	S 52 42.2			
	18	235 47.8	88 58.8	N 13 20.8	N 6	5 25	5 59	18 13	18 47	Capella	280 32.5	N 46 0.6			
	19	250 50.2	103 59.0	N 13 20.0	N 5	5 26	6 0	18 12	18 46	Deneb	49 30.0	N 45 20.5			
	20	265 52.7	118 59.1	N 13 19.2	N 4	5 27	6 1	18 11	18 45	Denebola	182 32.3	N 14 29.2			
	21	280 55.2	133 59.2	N 13 18.4	N 3	5 28	6 2	18 10	18 44	Dubhe	193 50.6	N 61 40.1			
22	295 57.6	148 59.4	N 13 17.6	N 2	5 29	6 3	18 9	18 43	Elnath	278 10.9	N 28 37.0				
23	311 0.1	163 59.5	N 13 16.8	N 1	5 30	6 4	18 8	18 42	Eltanin	90 45.1	N 51 29.7				
18	0	326 2.6	178 59.7	N 13 16.0	S 1	5 31	6 4	18 7	18 41	Enif	33 45.3	N 9 57.0			
	1	341 5.0	193 59.8	N 13 15.2	S 2	5 32	6 5	18 6	18 40	Formalhaut	15 22.1	S 29 32.1			
	2	356 7.5	208 59.9	N 13 14.4	S 3	5 33	6 6	18 5	18 39	Gacrux	171 59.5	S 57 12.1			
	3	11 10.0	224 0.1	N 13 13.6	S 4	5 34	6 7	18 4	18 38	Hadar	148 45.9	S 60 27.0			
	4	26 12.4	239 0.2	N 13 12.8	S 5	5 35	6 9	18 2	18 36	Hamal	327 59.0	N 23 32.1			
	5	41 14.9	254 0.3	N 13 12.0	S 6	5 36	6 10	18 2	18 35	Kaus Aust	83 41.6	S 34 22.4			
	6	56 17.4	269 0.5	N 13 11.2	S 7	5 37	6 11	18 1	18 34	Kochab	137 20.4	N 74 5.9			
	7	71 19.8	284 0.6	N 13 10.4	S 8	5 38	6 12	18 0	18 34	Markab	13 36.5	N 15 17.5			
	8	86 22.3	299 0.7	N 13 9.6	S 9	5 39	6 13	17 59	18 33	Menkent	148 5.7	S 36 26.7			
	9	101 24.7	314 0.9	N 13 8.7	S 10	5 40	6 14	17 58	18 32	Miaplacidu	221 40.0	S 69 47.0			
	10	116 27.2	329 1.0	N 13 7.9	S 11	5 41	6 15	17 57	18 31	Mirfak	308 38.1	N 49 54.7			
	11	131 29.7	344 1.2	N 13 7.1	S 12	5 42	6 16	17 56	18 30	Nunki	75 56.2	S 26 16.4			
	12	146 32.1	359 1.3	N 13 6.3	S 13	5 42	6 17	17 55	18 29	Peacock	53 16.4	S 56 40.9			
	13	161 34.6	14 1.4	N 13 5.5	S 14	5 43	6 18	17 54	18 29	Pollux	243 26.1	N 27 59.1			
	14	176 37.1	29 1.6	N 13 4.7	S 15	5 44	6 19	17 53	18 28	Procyon	244 58.3	N 5 11.3			
	15	191 39.5	44 1.7	N 13 3.9	S 20	5 48	6 24	17 48	18 24	Rasalhague	96 4.9	N 12 33.4			
	16	206 42.0	59 1.8	N 13 3.1	S 25	5 52	6 29	17 43	18 20	Regulus	207 42.2	N 11 53.5			
	17	221 44.5	74 2.0	N 13 2.3	S 30	5 56	6 35	17 37	18 16	Rigel	281 10.8	S 8 11.1			
	18	236 46.9	89 2.1	N 13 1.5	S 35	6 1	6 41	17 31	18 12	Rigel Kent	139 47.8	S 60 54.3			
	19	251 49.4	104 2.3	N 13 0.7	S 40	6 5	6 49	17 23	18 7	Schedar	349 38.3	N 56 37.2			
	20	266 51.9	119 2.4	N 12 59.9	S 45	6 9	6 57	17 15	18 3	Shaula	96 19.7	S 37 6.7			
	21	281 54.3	134 2.5	N 12 59.0	S 50	6 15	7 7	17 5	17 58	Sirius	258 32.5	S 16 44.0			
	22	296 56.8	149 2.7	N 12 58.2	S 55	6 20	7 20	16 53	17 52	Spica	158 29.8	S 11 14.4			
23	311 59.2	164 2.8	N 12 57.4	S 60	6 27	7 36	16 36	17 45	Vega	80 37.7	N 38 48.2				
Día	Sol			Luna											
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase						
17	m s	m s		h m											
18	4 14	4 8	0.8	12 4		2.0	5								
	4 1	3 55	0.8	12 4		2.8	10								

Tabla G. Miércoles 19 de agosto – jueves 20 de agosto de 2015.

Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
19	h	° /	° /	° /	°	h m	h m	h m	h m				Nombre	° /	° /
	0	327 1.7	179 3.0	N 12 56.6	N 60	3 7	4 29	19 40	21 1	Achernar	335 25.5	S 57 9.2			
	1	342 4.2	194 3.1	N 12 55.8	N 55	3 40	4 47	19 22	20 28	AcruX	173 8.0	S 63 11.3			
	2	357 6.6	209 3.2	N 12 55.0	N 50	4 3	5 0	19 9	20 6	Adhara	255 11.6	S 28 59.6			
	3	12 9.1	224 3.4	N 12 54.2	N 45	4 21	5 11	18 59	19 49	Aldebaran	290 47.8	N 16 32.3			
	4	27 11.6	239 3.5	N 12 53.4	N 40	4 34	5 20	18 50	19 36	Alioth	166 19.9	N 55 52.8			
	5	42 14.0	254 3.7	N 12 52.6	N 35	4 45	5 27	18 43	19 25	Alkaid	152 58.0	N 49 14.5			
	6	57 16.5	269 3.8	N 12 51.7	N 30	4 54	5 34	18 36	19 16	Alnair	27 41.5	S 46 52.9			
	7	72 19.0	284 3.9	N 12 50.9	N 25	5 2	5 40	18 30	19 8	Alnilam	275 45.0	S 1 11.6			
	8	87 21.4	299 4.1	N 12 50.1	N 20	5 9	5 45	18 25	19 1	Alphard	217 54.9	S 8 43.6			
	9	102 23.9	314 4.2	N 12 49.3	N 15	5 15	5 50	18 20	18 55	Alpheratz	357 41.7	N 29 10.7			
	10	117 26.3	329 4.4	N 12 48.5	N 14	5 16	5 51	18 19	18 54	Alfair	62 6.6	N 8 54.8			
	11	132 28.8	344 4.5	N 12 47.7	N 13	5 18	5 52	18 18	18 53	Antares	112 24.3	S 26 27.8			
	12	147 31.3	359 4.7	N 12 46.9	N 12	5 19	5 53	18 17	18 52	Arcturus	145 54.2	N 19 6.9			
	13	162 33.7	14 4.8	N 12 46.0	N 11	5 20	5 54	18 16	18 51	Atria	107 24.6	S 69 3.3			
	14	177 36.2	29 4.9	N 12 45.2	N 10	5 21	5 55	18 16	18 50	Avior	234 17.9	S 59 33.6			
	15	192 38.7	44 5.1	N 12 44.4	N 9	5 22	5 56	18 15	18 49	Bellatrix	278 30.6	N 6 21.7			
	16	207 41.1	59 5.2	N 12 43.6	N 8	5 23	5 57	18 14	18 48	Betelgeuse	270 59.9	N 7 24.5			
	17	222 43.6	74 5.4	N 12 42.8	N 7	5 24	5 58	18 13	18 47	Canopus	263 55.8	S 52 42.2			
	18	237 46.1	89 5.5	N 12 42.0	N 6	5 25	5 59	18 12	18 46	Capella	280 32.5	N 46 0.6			
	19	252 48.5	104 5.7	N 12 41.1	N 5	5 26	6 0	18 11	18 45	Deneb	49 30.0	N 45 20.5			
	20	267 51.0	119 5.8	N 12 40.3	N 4	5 27	6 0	18 10	18 44	Denebola	182 32.3	N 14 29.2			
	21	282 53.5	134 6.0	N 12 39.5	N 3	5 28	6 1	18 9	18 43	Dubhe	193 50.6	N 61 40.1			
22	297 55.9	149 6.1	N 12 38.7	N 2	5 29	6 2	18 8	18 42	Elnath	278 10.9	N 28 37.0				
23	312 58.4	164 6.2	N 12 37.9	N 1	5 30	6 3	18 8	18 41	Eltanin	90 45.1	N 51 29.7				
20	0	328 0.8	179 6.4	N 12 37.1	S 1	5 31	6 4	18 7	18 40	Enif	33 45.3	N 9 57.0			
	1	343 3.3	194 6.5	N 12 36.2	S 2	5 32	6 5	18 6	18 39	Formalhaut	15 22.1	S 29 32.1			
	2	358 5.8	209 6.7	N 12 35.4	S 3	5 33	6 6	18 5	18 38	Gacrux	171 59.6	S 57 12.1			
	3	13 8.2	224 6.8	N 12 34.6	S 4	5 34	6 7	18 4	18 38	Hadar	148 45.9	S 60 27.0			
	4	28 10.7	239 7.0	N 12 33.8	S 5	5 35	6 8	18 2	18 36	Hamal	327 59.0	N 23 32.1			
	5	43 13.2	254 7.1	N 12 32.9	S 6	5 36	6 9	18 1	18 35	Kaus Aust	83 41.6	S 34 22.4			
	6	58 15.6	269 7.3	N 12 32.1	S 7	5 37	6 10	18 1	18 34	Kochab	137 20.5	N 74 5.9			
	7	73 18.1	284 7.4	N 12 31.3	S 8	5 37	6 11	18 0	18 33	Markab	13 36.5	N 15 17.5			
	8	88 20.6	299 7.6	N 12 30.5	S 9	5 38	6 12	17 59	18 32	Menkent	148 5.7	S 36 26.7			
	9	103 23.0	314 7.7	N 12 29.7	S 10	5 39	6 13	17 58	18 32	Miaplacidu	221 40.0	S 69 47.0			
	10	118 25.5	329 7.9	N 12 28.8	S 11	5 40	6 14	17 57	18 31	Mirfak	308 38.1	N 49 54.7			
	11	133 28.0	344 8.0	N 12 28.0	S 12	5 41	6 15	17 56	18 30	Nunki	75 56.2	S 26 16.4			
	12	148 30.4	359 8.2	N 12 27.2	S 13	5 41	6 16	17 55	18 29	Peacock	53 16.4	S 56 40.9			
	13	163 32.9	14 8.3	N 12 26.4	S 14	5 42	6 17	17 54	18 29	Pollux	243 26.1	N 27 59.1			
	14	178 35.3	29 8.5	N 12 25.5	S 15	5 43	6 18	17 53	18 28	Procyon	244 58.3	N 5 11.3			
	15	193 37.8	44 8.6	N 12 24.7	S 20	5 47	6 22	17 49	18 24	Rasalhague	96 4.9	N 12 33.4			
	16	208 40.3	59 8.8	N 12 23.9	S 25	5 51	6 27	17 44	18 20	Regulus	207 42.2	N 11 53.5			
	17	223 42.7	74 8.9	N 12 23.1	S 30	5 54	6 33	17 38	18 17	Rigel	281 10.8	S 8 11.1			
	18	238 45.2	89 9.1	N 12 22.2	S 35	5 58	6 39	17 32	18 13	Rigel Kent	139 47.8	S 60 54.3			
	19	253 47.7	104 9.2	N 12 21.4	S 40	6 2	6 46	17 25	18 9	Schedar	349 38.3	N 56 37.2			
	20	268 50.1	119 9.4	N 12 20.6	S 45	6 6	6 54	17 17	18 5	Shaula	96 19.7	S 37 6.7			
	21	283 52.6	134 9.5	N 12 19.8	S 50	6 11	7 3	17 8	18 0	Sirius	258 32.5	S 16 44.0			
	22	298 55.1	149 9.7	N 12 18.9	S 55	6 16	7 15	16 56	17 55	Spica	158 29.8	S 11 14.4			
23	313 57.5	164 9.8	N 12 18.1	S 60	6 22	7 31	16 41	17 50	Vega	80 37.7	N 38 48.2				
Día	Sol				Luna										
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día	Porcentaje de iluminación	Fase								
19	m s	m s		h m											
20	3 48	3 41	0.8	12 4	3.7	16									
	3 34	3 27	0.8	12 3	4.5	24									

Tabla G. Viernes 21 de agosto – sábado 22 de agosto de 2015.


Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
21	h	° /	° /	° /	°	h m	h m	h m	h m						
	0	329 00.0	179 10.0	N 12 17.3	N 60	3 14	4 34	19 34	20 53	Achernar	335 25.5	S 57 9.2			
	1	344 2.4	194 10.1	N 12 16.5	N 55	3 45	4 51	19 18	20 23	Acrux	173 8.0	S 63 11.3			
	2	359 4.9	209 10.3	N 12 15.6	N 50	4 7	5 3	19 5	20 1	Adhara	255 11.6	S 28 59.6			
	3	14 7.4	224 10.4	N 12 14.8	N 45	4 23	5 13	18 55	19 45	Aldebaran	290 47.8	N 16 32.3			
	4	29 9.8	239 10.6	N 12 14.0	N 40	4 36	5 22	18 47	19 33	Alioth	166 19.9	N 55 52.8			
	5	44 12.3	254 10.7	N 12 13.1	N 35	4 47	5 29	18 40	19 22	Alkaid	152 58.0	N 49 14.5			
	6	59 14.8	269 10.9	N 12 12.3	N 30	4 56	5 35	18 34	19 14	Alnair	27 41.5	S 46 52.9			
	7	74 17.2	284 11.0	N 12 11.5	N 25	5 3	5 41	18 29	19 6	Alnilam	275 45.0	S 1 11.6			
	8	89 19.7	299 11.2	N 12 10.7	N 20	5 10	5 46	18 24	19 0	Alphard	217 54.9	S 8 43.6			
	9	104 22.2	314 11.3	N 12 9.8	N 15	5 16	5 51	18 19	18 54	Alpheratz	357 41.6	N 29 10.7			
	10	119 24.6	329 11.5	N 12 9.0	N 14	5 17	5 51	18 18	18 53	Altair	62 6.6	N 8 54.8			
	11	134 27.1	344 11.6	N 12 8.2	N 13	5 18	5 52	18 17	18 52	Antares	112 24.3	S 26 27.8			
	12	149 29.6	359 11.8	N 12 7.3	N 12	5 19	5 53	18 16	18 51	Arcturus	145 54.2	N 19 6.9			
	13	164 32.0	14 11.9	N 12 6.5	N 11	5 20	5 54	18 15	18 50	Atria	107 24.6	S 69 3.4			
	14	179 34.5	29 12.1	N 12 5.7	N 10	5 21	5 55	18 15	18 49	Avior	234 17.9	S 59 33.6			
	15	194 36.9	44 12.2	N 12 4.8	N 9	5 22	5 56	18 14	18 48	Bellatrix	278 30.5	N 6 21.7			
	16	209 39.4	59 12.4	N 12 4.0	N 8	5 23	5 57	18 13	18 47	Betelgeuse	270 59.9	N 7 24.5			
	17	224 41.9	74 12.5	N 12 3.2	N 7	5 24	5 58	18 12	18 46	Canopus	263 55.8	S 52 42.2			
	18	239 44.3	89 12.7	N 12 2.3	N 6	5 25	5 58	18 11	18 45	Capella	280 32.4	N 46 0.6			
	19	254 46.8	104 12.9	N 12 1.5	N 5	5 26	5 59	18 10	18 44	Deneb	49 30.0	N 45 20.5			
	20	269 49.3	119 13.0	N 12 0.7	N 4	5 27	6 0	18 9	18 43	Denebola	182 32.3	N 14 29.2			
	21	284 51.7	134 13.2	N 11 59.8	N 3	5 27	6 1	18 9	18 42	Dubhe	193 50.6	N 61 40.1			
22	299 54.2	149 13.3	N 11 59.0	N 2	5 28	6 2	18 8	18 41	Elnath	278 10.9	N 28 37.0				
23	314 56.7	164 13.5	N 11 58.2	N 1	5 29	6 3	18 7	18 40	Eltanin	90 45.2	N 51 29.7				
22	0	329 59.1	179 13.6	N 11 57.3	S 1	5 31	6 4	18 5	18 39	Enif	33 45.3	N 9 57.0			
	1	345 1.6	194 13.8	N 11 56.5	S 2	5 32	6 5	18 4	18 38	Formalhaut	15 22.1	S 29 32.1			
	2	0 4.1	209 13.9	N 11 55.7	S 3	5 33	6 6	18 4	18 37	Gacrux	171 59.6	S 57 12.1			
	3	15 6.5	224 14.1	N 11 54.8	S 4	5 33	6 7	18 3	18 36	Hadara	148 45.9	S 60 27.0			
	4	30 9.0	239 14.3	N 11 54.0	S 5	5 34	6 8	18 2	18 36	Hamal	327 58.9	N 23 32.1			
	5	45 11.4	254 14.4	N 11 53.1	S 6	5 35	6 9	18 1	18 35	Kaus Aust	83 41.6	S 34 22.4			
	6	60 13.9	269 14.6	N 11 52.3	S 7	5 36	6 9	18 0	18 34	Kochab	137 20.5	N 74 5.9			
	7	75 16.4	284 14.7	N 11 51.5	S 8	5 37	6 10	18 0	18 33	Markab	13 36.5	N 15 17.5			
	8	90 18.8	299 14.9	N 11 50.6	S 9	5 37	6 11	17 59	18 32	Menkent	148 5.8	S 36 26.6			
	9	105 21.3	314 15.0	N 11 49.8	S 10	5 38	6 12	17 58	18 32	Miaplacidu	221 40.0	S 69 47.0			
	10	120 23.8	329 15.2	N 11 49.0	S 11	5 39	6 13	17 57	18 31	Mirfak	308 38.1	N 49 54.7			
	11	135 26.2	344 15.4	N 11 48.1	S 12	5 40	6 14	17 56	18 30	Nunki	75 56.2	S 26 16.4			
	12	150 28.7	359 15.5	N 11 47.3	S 13	5 40	6 15	17 55	18 29	Peacock	53 16.4	S 56 40.9			
	13	165 31.2	14 15.7	N 11 46.4	S 14	5 41	6 15	17 54	18 29	Pollux	243 26.1	N 27 59.1			
	14	180 33.6	29 15.8	N 11 45.6	S 15	5 42	6 16	17 54	18 28	Procyon	244 58.3	N 5 11.3			
	15	195 36.1	44 16.0	N 11 44.8	S 20	5 45	6 21	17 49	18 25	Rasalhague	96 4.9	N 12 33.4			
	16	210 38.5	59 16.2	N 11 43.9	S 25	5 49	6 26	17 44	18 21	Regulus	207 42.2	N 11 53.5			
	17	225 41.0	74 16.3	N 11 43.1	S 30	5 52	6 31	17 39	18 18	Rigel	281 10.8	S 8 11.1			
	18	240 43.5	89 16.5	N 11 42.2	S 35	5 56	6 37	17 34	18 14	Rigel Kent	139 47.8	S 60 54.3			
	19	255 45.9	104 16.6	N 11 41.4	S 40	6 0	6 43	17 27	18 11	Schedar	349 38.3	N 56 37.2			
	20	270 48.4	119 16.8	N 11 40.6	S 45	6 3	6 51	17 20	18 7	Shaula	96 19.7	S 37 6.7			
	21	285 50.9	134 17.0	N 11 39.7	S 50	6 7	7 0	17 11	18 3	Sirius	258 32.5	S 16 44.0			
	22	300 53.3	149 17.1	N 11 38.9	S 55	6 12	7 11	17 0	17 59	Spica	158 29.8	N 11 14.4			
23	315 55.8	164 17.3	N 11 38.0	S 60	6 17	7 25	16 46	17 54	Vega	80 37.7	N 38 48.3				
Día	Sol				Luna										
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día	Porcentaje de iluminación		Fase							
21	m s	m s		h m											
22	3 20	3 13	0.8	12 3	5.4	32									
	3 5	2 58	0.9	12 3	6.3	42									

Tabla G. Domingo 23 de agosto – lunes 24 de agosto de 2015.


Día	TU	Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		Aries	Sol							Nombre	SHA	Dec.
		GHA	GHA	Dec.		h m	h m	h m	h m		° / ' / "	° / ' / "
23	h				°							
	0	330 58.3	179 17.4	N 11 37.2	N 60	3 20	4 39	19 28	20 46	Achernar	335 25.5	S 57 9.2
	1	346 0.7	194 17.6	N 11 36.3	N 55	3 50	4 55	19 13	20 17	Acrux	173 8.0	S 63 11.2
	2	1 3.2	209 17.8	N 11 35.5	N 50	4 10	5 6	19 1	19 57	Alhara	255 11.6	S 28 59.6
	3	16 5.7	224 17.9	N 11 34.6	N 45	4 26	5 16	18 52	19 42	Aldebaran	290 47.7	N 16 32.3
	4	31 8.1	239 18.1	N 11 33.8	N 40	4 38	5 24	18 44	19 29	Alioth	166 20.0	N 55 52.8
	5	46 10.6	254 18.2	N 11 33.0	N 35	4 48	5 30	18 38	19 20	Alkaid	152 58.0	N 49 14.5
	6	61 13.0	269 18.4	N 11 32.1	N 30	4 57	5 36	18 32	19 11	Alnair	27 41.5	S 46 52.9
	7	76 15.5	284 18.6	N 11 31.3	N 25	5 4	5 41	18 27	19 4	Alnilam	275 45.0	S 1 11.6
	8	91 18.0	299 18.7	N 11 30.4	N 20	5 10	5 46	18 22	18 58	Alphard	217 54.9	S 8 43.6
	9	106 20.4	314 18.9	N 11 29.6	N 15	5 16	5 51	18 18	18 52	Alpheratz	357 41.6	N 29 10.7
	10	121 22.9	329 19.1	N 11 28.7	N 14	5 17	5 52	18 17	18 51	Altair	62 6.6	N 8 54.8
	11	136 25.4	344 19.2	N 11 27.9	N 13	5 18	5 52	18 16	18 50	Antares	112 24.3	S 26 27.8
	12	151 27.8	359 19.4	N 11 27.0	N 12	5 19	5 53	18 15	18 49	Arcturus	145 54.2	N 19 6.9
	13	166 30.3	14 19.5	N 11 26.2	N 11	5 20	5 54	18 14	18 48	Atria	107 24.6	S 69 3.4
	14	181 32.8	29 19.7	N 11 25.3	N 10	5 21	5 55	18 14	18 48	Avior	234 17.9	S 59 33.6
	15	196 35.2	44 19.9	N 11 24.5	N 9	5 22	5 56	18 13	18 47	Bellatrix	278 30.5	N 6 21.7
	16	211 37.7	59 20.0	N 11 23.6	N 8	5 23	5 57	18 12	18 46	Betelgeuse	270 59.9	N 7 24.5
	17	226 40.2	74 20.2	N 11 22.8	N 7	5 24	5 57	18 11	18 45	Canopus	263 55.8	S 52 42.2
	18	241 42.6	89 20.4	N 11 22.0	N 6	5 25	5 58	18 10	18 44	Capella	280 32.0	N 46 0.6
	19	256 45.1	104 20.5	N 11 21.1	N 5	5 26	5 59	18 10	18 43	Deneb	49 30.4	N 45 20.5
	20	271 47.5	119 20.7	N 11 20.3	N 4	5 26	6 0	18 9	18 42	Denebola	182 32.3	N 14 29.2
	21	286 50.0	134 20.9	N 11 19.4	N 3	5 27	6 1	18 8	18 41	Dubhe	193 50.6	N 61 40.1
22	301 52.5	149 21.0	N 11 18.6	N 2	5 28	6 1	18 7	18 41	Elnath	278 10.9	N 28 37.0	
23	316 54.9	164 21.2	N 11 17.7	N 1	5 29	6 2	18 6	18 40	Eltanin	90 45.2	N 51 29.7	
24	0	331 57.4	179 21.4	N 11 16.9	S 1	5 30	6 3	18 6	18 39			
	1	346 59.9	194 21.5	N 11 16.0	S 2	5 31	6 4	18 5	18 38	Enif	33 45.3	N 9 57.1
	2	2 2.3	209 21.7	N 11 15.2	S 3	5 32	6 5	18 4	18 37	Formalhaut	15 22.1	S 29 32.1
	3	17 4.8	224 21.8	N 11 14.3	S 4	5 33	6 6	18 3	18 36	Gacrux	171 59.6	S 57 12.1
	4	32 7.3	239 22.0	N 11 13.4	S 5	5 34	6 7	18 2	18 35	Hamal	327 58.9	N 23 32.1
	5	47 9.7	254 22.2	N 11 12.6	S 6	5 34	6 8	18 1	18 34	Kaus Aust	83 41.6	S 34 22.4
	6	62 12.2	269 22.3	N 11 11.7	S 7	5 35	6 9	18 0	18 34	Kochab	137 20.6	N 74 5.9
	7	77 14.7	284 22.5	N 11 10.9	S 8	5 36	6 9	17 59	18 33	Markab	13 36.5	N 15 17.5
	8	92 17.1	299 22.7	N 11 10.0	S 9	5 37	6 10	17 58	18 32	Menkent	148 5.8	S 36 26.6
	9	107 19.6	314 22.8	N 11 9.2	S 10	5 37	6 11	17 58	18 32	Miaplacidu	221 40.0	S 69 46.9
	10	122 22.0	329 23.0	N 11 8.3	S 11	5 38	6 12	17 57	18 31	Mirfak	308 38.1	N 49 54.7
	11	137 24.5	344 23.2	N 11 7.5	S 12	5 39	6 13	17 56	18 30	Nunki	75 56.2	S 26 16.4
	12	152 27.0	359 23.4	N 11 6.6	S 13	5 39	6 13	17 55	18 30	Peacock	53 16.4	S 56 40.9
	13	167 29.4	14 23.5	N 11 5.8	S 14	5 40	6 14	17 55	18 29	Pollux	243 26.1	N 27 59.1
	14	182 31.9	29 23.7	N 11 4.9	S 15	5 41	6 15	17 54	18 28	Procyon	244 58.3	N 5 11.3
	15	197 34.4	44 23.9	N 11 4.1	S 20	5 44	6 19	17 50	18 25	Rasalhague	96 5.0	N 12 33.4
	16	212 36.8	59 24.0	N 11 3.2	S 25	5 47	6 24	17 45	18 22	Regulus	207 42.2	N 11 53.5
	17	227 39.3	74 24.2	N 11 2.3	S 30	5 50	6 29	17 40	18 19	Rigel	281 10.7	S 8 11.1
	18	242 41.8	89 24.4	N 11 1.5	S 35	5 54	6 34	17 35	18 16	Rigel Kent	139 47.9	S 60 54.3
	19	257 44.2	104 24.5	N 11 0.6	S 40	5 57	6 40	17 29	18 13	Schedar	349 38.3	N 56 37.3
	20	272 46.7	119 24.7	N 10 59.8	S 45	6 0	6 47	17 22	18 9	Shaula	96 19.7	S 37 6.8
	21	287 49.1	134 24.9	N 10 58.9	S 50	6 4	6 56	17 14	18 6	Sirius	258 32.5	S 16 44.0
	22	302 51.6	149 25.0	N 10 58.1	S 55	6 7	7 6	17 4	18 2	Spica	158 29.8	S 11 14.4
23	317 54.1	164 25.2	N 10 57.2	S 60	6 12	7 19	16 50	17 58	Vega	80 37.7	N 38 48.3	
		Sol			Luna							
Día		Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase		
		m s	m s		h m							
23		2 50	2 42	0.9	12 3		7.3	52				
24		2 34	2 26	0.9	12 2		8.3	62				

Tabla G. Martes 25 de agosto – miércoles 26 de agosto de 2015.


Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
25	h	° /	° /	° /	°	h m	h m	h m	h m						
	0	332 56.5	179 25.4	N 10 56.3	N 60	3 26	4 44	19 22	20 39	Achernar	335 25.5	S 57 9.2			
	1	347 59.0	194 25.6	N 10 55.5	N 55	3 54	4 58	19 8	20 12	Acrux	173 8.0	S 63 11.2			
	2	3 1.5	209 25.7	N 10 54.6	N 50	4 14	5 9	18 57	19 52	Adhara	255 11.6	S 28 59.6			
	3	18 3.9	224 25.9	N 10 53.8	N 45	4 29	5 18	18 49	19 38	Aldebaran	290 47.7	N 16 32.3			
	4	33 6.4	239 26.1	N 10 52.9	N 40	4 41	5 26	18 41	19 26	Alioth	166 20.0	N 55 52.8			
	5	48 8.9	254 26.2	N 10 52.1	N 35	4 50	5 32	18 35	19 17	Alkaid	152 58.0	N 49 14.5			
	6	63 11.3	269 26.4	N 10 51.2	N 30	4 58	5 37	18 30	19 9	Alnair	27 41.5	S 46 52.9			
	7	78 13.8	284 26.6	N 10 50.3	N 25	5 5	5 42	18 25	19 2	Alnilam	275 45.0	S 1 11.6			
	8	93 16.3	299 26.7	N 10 49.5	N 20	5 11	5 47	18 21	18 56	Alphard	217 54.9	S 8 43.6			
	9	108 18.7	314 26.9	N 10 48.6	N 15	5 16	5 51	18 16	18 51	Alpheratz	357 41.6	N 29 10.7			
	10	123 21.2	329 27.1	N 10 47.8	N 14	5 17	5 52	18 16	18 50	Altair	62 6.6	N 8 54.8			
	11	138 23.6	344 27.3	N 10 46.9	N 13	5 18	5 53	18 15	18 49	Antares	112 24.4	S 26 27.8			
	12	153 26.1	359 27.4	N 10 46.0	N 12	5 19	5 53	18 14	18 48	Arcturus	145 54.2	N 19 6.9			
	13	168 28.6	14 27.6	N 10 45.2	N 11	5 20	5 54	18 13	18 47	Atria	107 24.6	S 69 3.4			
	14	183 31.0	29 27.8	N 10 44.3	N 10	5 21	5 55	18 12	18 46	Avior	234 17.9	S 59 33.6			
	15	198 33.5	44 28.0	N 10 43.4	N 9	5 22	5 56	18 12	18 46	Bellatrix	278 30.5	N 6 21.7			
	16	213 36.0	59 28.1	N 10 42.6	N 8	5 23	5 57	18 11	18 45	Betelgeuse	270 59.8	N 7 24.5			
	17	228 38.4	74 28.3	N 10 41.7	N 7	5 24	5 57	18 10	18 44	Canopus	263 55.8	S 52 42.2			
	18	243 40.9	89 28.5	N 10 40.9	N 6	5 24	5 58	18 9	18 43	Capella	280 32.4	N 46 0.6			
	19	258 43.4	104 28.6	N 10 40.0	N 5	5 25	5 59	18 9	18 42	Deneb	49 30.0	N 45 20.5			
	20	273 45.8	119 28.8	N 10 39.1	N 4	5 26	6 0	18 8	18 41	Denebola	182 32.3	N 14 29.2			
	21	288 48.3	134 29.0	N 10 38.3	N 3	5 27	6 0	18 7	18 41	Dubhe	193 50.6	N 61 40.1			
22	303 50.8	149 29.2	N 10 37.4	N 2	5 28	6 1	18 7	18 40	Elnath	278 10.9	N 28 37.0				
23	318 53.2	164 29.3	N 10 36.5	N 1	5 28	6 2	18 6	18 39	Eltanin	90 45.2	N 51 29.7				
				0	5 29	6 3	18 5	18 38							
26	0	333 55.7	179 29.5	N 10 35.7	S 1	5 30	6 3	18 4	18 38	Enif	33 45.3	N 9 57.1			
	1	348 58.1	194 29.7	N 10 34.8	S 2	5 31	6 4	18 4	18 37	Formalhaut	15 22.1	S 29 32.1			
	2	4 0.6	209 29.9	N 10 33.9	S 3	5 31	6 5	18 3	18 36	Gacrux	171 59.6	S 57 12.1			
	3	19 3.1	224 30.0	N 10 33.1	S 4	5 32	6 5	18 2	18 35	Hadara	148 45.9	S 60 27.0			
	4	34 5.5	239 30.2	N 10 32.2	S 5	5 33	6 6	18 1	18 35	Hamal	327 58.9	N 23 32.1			
	5	49 8.0	254 30.4	N 10 31.3	S 6	5 34	6 7	18 1	18 34	Kaus Aust	83 41.6	S 34 22.4			
	6	64 10.5	269 30.6	N 10 30.5	S 7	5 34	6 8	18 0	18 33	Kochab	137 20.6	N 74 5.9			
	7	79 12.9	284 30.7	N 10 29.6	S 8	5 35	6 8	17 59	18 33	Markab	13 36.5	N 15 17.5			
	8	94 15.4	299 30.9	N 10 28.7	S 9	5 36	6 9	17 58	18 32	Menkent	148 5.8	S 36 26.6			
	9	109 17.9	314 31.1	N 10 27.9	S 10	5 36	6 10	17 58	18 31	Miaplacidu	221 40.0	S 69 46.9			
	10	124 20.3	329 31.3	N 10 27.0	S 11	5 37	6 11	17 57	18 31	Mirfak	308 38.1	N 49 54.7			
	11	139 22.8	344 31.4	N 10 26.1	S 12	5 38	6 11	17 56	18 30	Nunki	75 56.2	S 26 16.4			
	12	154 25.2	359 31.6	N 10 25.3	S 13	5 38	6 12	17 55	18 30	Peacock	53 16.4	S 56 40.9			
	13	169 27.7	14 31.8	N 10 24.4	S 14	5 39	6 13	17 55	18 29	Pollux	243 26.0	N 27 59.1			
	14	184 30.2	29 32.0	N 10 23.5	S 15	5 39	6 14	17 54	18 28	Procyon	244 58.2	N 5 11.3			
	15	199 32.6	44 32.2	N 10 22.7	S 20	5 42	6 18	17 50	18 25	Rasalhague	96 5.0	N 12 33.4			
	16	214 35.1	59 32.3	N 10 21.8	S 25	5 45	6 22	17 46	18 22	Regulus	207 42.2	N 11 53.4			
	17	229 37.6	74 32.5	N 10 20.9	S 30	5 48	6 27	17 41	18 20	Rigel	281 10.7	S 8 11.1			
	18	244 40.0	89 32.7	N 10 20.1	S 35	5 51	6 32	17 36	18 17	Rigel Kent	139 47.9	S 60 54.3			
	19	259 42.5	104 32.9	N 10 19.2	S 40	5 54	6 37	17 31	18 14	Schedar	349 38.3	N 56 37.3			
	20	274 45.0	119 33.0	N 10 18.3	S 45	5 57	6 44	17 24	18 11	Shaula	96 19.7	S 37 6.8			
	21	289 47.4	134 33.2	N 10 17.4	S 50	6 0	6 52	17 17	18 9	Sirius	258 32.5	S 16 44.0			
	22	304 49.9	149 33.4	N 10 16.6	S 55	6 3	7 1	17 7	18 6	Spica	158 29.8	N 11 14.4			
23	319 52.4	164 33.6	N 10 15.7	S 60	6 7	7 14	16 55	18 2	Vega	80 37.7	N 38 48.3				
		Sol			Luna										
Día		Ecuación del tiempo (00 ^h)		Corr. <i>d</i>	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase					
		m s	m s		h m										
25		2 18	2 10	0.9	12 2		9.3	72							
26		2 2	1 53	0.9	12 2		10.4	81							

Tabla G. Jueves 27 de agosto – viernes 28 de agosto de 2015.


Día	TU	Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		Aries	Sol							Nombre	SHA	Dec.
		GHA	GHA	Dec.		h m	h m	h m	h m		° / ' / "	° / ' / "
27	h	° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m		° / ' / "	° / ' / "
	0	334 54.8	179 33.8	N 10 14.8	N 60	3 33	4 48	19 16	20 32	Achernar	335 25.4	S 57 9.2
	1	349 57.3	194 33.9	N 10 14.0	N 55	3 59	5 2	19 3	20 6	Acrux	173 8.0	S 63 11.5
	2	4 59.7	209 34.1	N 10 13.1	N 50	4 17	5 12	18 53	19 48	Alhara	255 11.6	S 28 59.6
	3	20 2.2	224 34.3	N 10 12.2	N 45	4 31	5 21	18 45	19 34	Aldebaran	290 47.7	N 16 32.3
	4	35 4.7	239 34.5	N 10 11.3	N 40	4 43	5 27	18 38	19 23	Alioth	166 20.0	N 55 52.8
	5	50 7.1	254 34.7	N 10 10.5	N 35	4 52	5 33	18 33	19 14	Alkaid	152 58.0	N 49 14.5
	6	65 9.6	269 34.8	N 10 9.6	N 30	4 59	5 38	18 27	19 6	Alnair	27 41.5	S 46 52.9
	7	80 12.1	284 35.0	N 10 8.7	N 25	5 6	5 43	18 23	19 0	Alnilam	275 45.0	S 1 11.6
	8	95 14.5	299 35.2	N 10 7.8	N 20	5 12	5 47	18 19	18 54	Alphard	217 54.9	S 8 43.6
	9	110 17.0	314 35.4	N 10 7.0	N 15	5 17	5 51	18 15	18 50	Alpheratz	357 41.6	N 29 10.7
	10	125 19.5	329 35.6	N 10 6.1	N 14	5 18	5 52	18 14	18 49	Altair	62 6.6	N 8 54.8
	11	140 21.9	344 35.7	N 10 5.2	N 13	5 18	5 53	18 14	18 48	Antares	112 24.4	S 26 27.8
	12	155 24.4	359 35.9	N 10 4.3	N 12	5 19	5 53	18 13	18 47	Arcturus	145 54.2	N 19 6.9
	13	170 26.9	14 36.1	N 10 3.5	N 11	5 20	5 54	18 12	18 46	Atria	107 24.7	S 69 3.4
	14	185 29.3	29 36.3	N 10 2.6	N 10	5 21	5 55	18 11	18 45	Avior	234 17.9	S 59 33.6
	15	200 31.8	44 36.5	N 10 1.7	N 9	5 22	5 56	18 11	18 44	Bellatrix	278 30.5	N 6 21.7
	16	215 34.2	59 36.6	N 10 0.8	N 8	5 23	5 56	18 10	18 44	Betelgeuse	270 59.8	N 7 24.5
	17	230 36.7	74 36.8	N 10 0.0	N 7	5 24	5 57	18 9	18 43	Canopus	263 55.8	S 52 42.2
	18	245 39.2	89 37.0	N 9 59.1	N 6	5 24	5 58	18 9	18 42	Capella	280 32.4	N 46 0.6
	19	260 41.6	104 37.2	N 9 58.2	N 5	5 25	5 58	18 8	18 41	Deneb	49 30.0	N 45 20.5
	20	275 44.1	119 37.4	N 9 57.3	N 4	5 26	5 59	18 7	18 41	Denebola	182 32.3	N 14 29.2
	21	290 46.6	134 37.5	N 9 56.5	N 3	5 27	6 0	18 7	18 40	Dubhe	193 50.6	N 61 40.1
22	305 49.0	149 37.7	N 9 55.6	N 2	5 27	6 1	18 6	18 39	Elnath	278 10.8	N 28 37.0	
23	320 51.5	164 37.9	N 9 54.7	N 1	5 28	6 1	18 5	18 38	Eltanin	90 45.2	N 51 29.7	
28	0	335 54.0	179 38.1	N 9 53.8	S 1	5 29	6 2	18 4	18 38			
	1	350 56.4	194 38.3	N 9 52.9	S 2	5 30	6 3	18 4	18 37	Enif	33 45.3	N 9 57.1
	2	5 58.9	209 38.5	N 9 52.1	S 3	5 31	6 4	18 2	18 36	Formalhaut	15 22.1	S 29 32.1
	3	21 1.3	224 38.6	N 9 51.2	S 4	5 31	6 5	18 2	18 35	Gacrux	171 59.6	S 57 12.1
	4	36 3.8	239 38.8	N 9 50.3	S 5	5 32	6 5	18 1	18 34	Hamal	327 58.9	N 23 32.1
	5	51 6.3	254 39.0	N 9 49.4	S 6	5 33	6 6	18 0	18 34	Kaus Aust	83 41.6	S 34 22.4
	6	66 8.7	269 39.2	N 9 48.5	S 7	5 33	6 7	18 0	18 33	Kochab	137 20.6	N 74 5.9
	7	81 11.2	284 39.4	N 9 47.7	S 8	5 34	6 7	17 59	18 33	Markab	13 36.5	N 15 17.5
	8	96 13.7	299 39.6	N 9 46.8	S 9	5 35	6 8	17 58	18 32	Menkent	148 5.8	S 36 26.6
	9	111 16.1	314 39.7	N 9 45.9	S 10	5 35	6 9	17 58	18 31	Miaplacidu	221 40.0	S 69 46.9
	10	126 18.6	329 39.9	N 9 45.0	S 11	5 36	6 10	17 57	18 31	Mirfak	308 38.0	N 49 54.7
	11	141 21.1	344 40.1	N 9 44.1	S 12	5 36	6 10	17 56	18 30	Nunki	75 56.2	S 26 16.4
	12	156 23.5	359 40.3	N 9 43.3	S 13	5 37	6 11	17 56	18 30	Peacock	53 16.4	S 56 40.9
	13	171 26.0	14 40.5	N 9 42.4	S 14	5 38	6 12	17 55	18 29	Pollux	243 26.0	N 27 59.1
	14	186 28.5	29 40.7	N 9 41.5	S 15	5 38	6 12	17 54	18 28	Procyon	244 58.2	N 5 11.3
	15	201 30.9	44 40.9	N 9 40.6	S 20	5 41	6 16	17 51	18 26	Rasalhague	96 5.0	N 12 33.4
	16	216 33.4	59 41.0	N 9 39.7	S 25	5 44	6 20	17 47	18 23	Regulus	207 42.2	N 11 53.4
	17	231 35.8	74 41.2	N 9 38.9	S 30	5 46	6 24	17 42	18 21	Rigel	281 10.7	S 8 11.1
	18	246 38.3	89 41.4	N 9 38.0	S 35	5 49	6 29	17 38	18 18	Rigel Kent	139 47.9	S 60 54.3
	19	261 40.8	104 41.6	N 9 37.1	S 40	5 51	6 34	17 33	18 16	Schedar	349 38.2	N 56 37.3
	20	276 43.2	119 41.8	N 9 36.2	S 45	5 53	6 40	17 27	18 14	Shaula	96 19.7	S 37 6.8
	21	291 45.7	134 42.0	N 9 35.3	S 50	5 56	6 48	17 20	18 11	Sirius	258 32.5	S 16 44.0
	22	306 48.2	149 42.2	N 9 34.4	S 55	5 58	6 56	17 11	18 9	Spica	158 29.9	S 11 14.4
23	321 50.6	164 42.3	N 9 33.5	S 60	6 1	7 8	17 0	18 6	Vega	80 37.7	N 38 48.3	
Día	Sol				Luna							
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día	Porcentaje de iluminación		Fase				
27	m s	m s		h m								
28	1 45	1 36	0.9	12 2	11.6	89						
	1 27	1 19	0.9	12 1	12.7	95						

Tabla G. Sábado 29 de agosto – domingo 30 de agosto de 2015.

Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
29	h	° /	° /	° /	°	h m	h m	h m	h m						
	0	336 53.1	179 42.5	N 9 32.7	N 60	3 38	4 53	19 10	20 25	Achernar	335 25.4	S 57 9.2			
	1	351 55.6	194 42.7	N 9 31.8	N 55	4 3	5 6	18 58	20 0	Acruz	173 8.1	S 63 11.2			
	2	6 58.0	209 42.9	N 9 30.9	N 50	4 21	5 15	18 49	19 43	Adhara	255 11.6	S 28 59.6			
	3	22 0.5	224 43.1	N 9 30.0	N 45	4 34	5 23	18 41	19 30	Aldebaran	290 47.7	N 16 32.3			
	4	37 3.0	239 43.3	N 9 29.1	N 40	4 45	5 29	18 35	19 20	Alioth	166 20.0	N 55 52.8			
	5	52 5.4	254 43.5	N 9 28.2	N 35	4 53	5 35	18 30	19 11	Alkaid	152 58.0	N 49 14.5			
	6	67 7.9	269 43.7	N 9 27.4	N 30	5 1	5 40	18 25	19 4	Alnair	27 41.5	S 46 52.9			
	7	82 10.3	284 43.8	N 9 26.5	N 25	5 7	5 44	18 21	18 58	Alnilam	275 44.9	S 1 11.6			
	8	97 12.8	299 44.0	N 9 25.6	N 20	5 12	5 48	18 17	18 53	Alphard	217 54.9	S 8 43.6			
	9	112 15.3	314 44.2	N 9 24.7	N 15	5 17	5 51	18 14	18 48	Alpheratz	357 41.6	N 29 10.7			
	10	127 17.7	329 44.4	N 9 23.8	N 14	5 18	5 52	18 13	18 47	Altair	62 6.6	N 8 54.8			
	11	142 20.2	344 44.6	N 9 22.9	N 13	5 19	5 53	18 12	18 46	Antares	112 24.4	S 26 27.8			
	12	157 22.7	359 44.8	N 9 22.0	N 12	5 19	5 53	18 12	18 46	Arcturus	145 54.3	N 19 6.9			
	13	172 25.1	14 45.0	N 9 21.1	N 11	5 20	5 54	18 11	18 45	Atria	107 24.7	S 69 3.4			
	14	187 27.6	29 45.2	N 9 20.3	N 10	5 21	5 55	18 10	18 44	Avior	234 17.9	S 59 33.5			
	15	202 30.1	44 45.3	N 9 19.4	N 9	5 22	5 56	18 10	18 43	Bellatrix	278 30.5	N 6 21.7			
	16	217 32.5	59 45.5	N 9 18.5	N 8	5 23	5 56	18 9	18 42	Betelgeuse	270 59.8	N 7 24.5			
	17	232 35.0	74 45.7	N 9 17.6	N 7	5 23	5 57	18 8	18 42	Canopus	263 55.8	S 52 42.1			
	18	247 37.4	89 45.9	N 9 16.7	N 6	5 24	5 57	18 8	18 41	Capella	280 32.4	N 46 0.6			
	19	262 39.9	104 46.1	N 9 15.8	N 5	5 25	5 58	18 7	18 40	Deneb	49 30.0	N 45 20.5			
	20	277 42.4	119 46.3	N 9 14.9	N 4	5 26	5 59	18 6	18 40	Denebola	182 32.3	N 14 29.2			
	21	292 44.8	134 46.5	N 9 14.0	N 3	5 26	5 59	18 6	18 39	Dubhe	193 50.6	N 61 40.1			
22	307 47.3	149 46.7	N 9 13.1	N 2	5 27	6 0	18 5	18 38	Elnath	278 10.8	N 28 37.0				
23	322 49.8	164 46.9	N 9 12.2	N 1	5 28	6 1	18 4	18 38	Eltanin	90 45.2	N 51 29.7				
				0	5 28	6 1	18 4	18 37							
30	0	337 52.2	179 47.1	N 9 11.4	S 1	5 29	6 2	18 3	18 36	Enif	33 45.3	N 9 57.1			
	1	352 54.7	194 47.2	N 9 10.5	S 2	5 29	6 3	18 3	18 36	Formalhaut	15 22.1	S 29 32.1			
	2	7 57.2	209 47.4	N 9 9.6	S 3	5 30	6 3	18 2	18 35	Gacrux	171 59.6	S 57 12.0			
	3	22 59.6	224 47.6	N 9 8.7	S 4	5 31	6 4	18 1	18 35	Hadar	148 46.0	S 60 27.0			
	4	38 2.1	239 47.8	N 9 7.8	S 5	5 31	6 5	18 1	18 34	Hamal	327 58.9	N 23 32.1			
	5	53 4.6	254 48.0	N 9 6.9	S 6	5 32	6 5	18 0	18 33	Kaus Aust	83 41.6	S 34 22.4			
	6	68 7.0	269 48.2	N 9 6.0	S 7	5 32	6 6	17 59	18 33	Kochab	137 20.7	N 74 5.9			
	7	83 9.5	284 48.4	N 9 5.1	S 8	5 33	6 6	17 59	18 32	Markab	13 36.5	N 15 17.5			
	8	98 11.9	299 48.6	N 9 4.2	S 9	5 34	6 7	17 58	18 32	Menkent	148 5.8	S 36 26.6			
	9	113 14.4	314 48.8	N 9 3.3	S 10	5 34	6 8	17 58	18 31	Miaplacidu	221 40.0	S 69 46.9			
	10	128 16.9	329 49.0	N 9 2.4	S 11	5 35	6 8	17 57	18 31	Mirfak	308 38.0	N 49 54.7			
	11	143 19.3	344 49.2	N 9 1.5	S 12	5 35	6 9	17 56	18 30	Nunki	75 56.2	S 26 16.4			
	12	158 21.8	359 49.3	N 9 0.6	S 13	5 36	6 10	17 56	18 30	Peacock	53 16.4	S 56 40.9			
	13	173 24.3	14 49.5	N 8 59.7	S 14	5 36	6 10	17 55	18 29	Pollux	243 26.0	N 27 59.1			
	14	188 26.7	29 49.7	N 8 58.9	S 15	5 37	6 11	17 54	18 29	Procyon	244 58.2	N 5 11.3			
	15	203 29.2	44 49.9	N 8 58.0	S 20	5 39	6 15	17 51	18 26	Rasalhague	96 5.0	N 12 33.4			
	16	218 31.7	59 50.1	N 8 57.1	S 25	5 42	6 18	17 47	18 24	Regulus	207 42.2	N 11 53.4			
	17	233 34.1	74 50.3	N 8 56.2	S 30	5 44	6 22	17 44	18 22	Rigel	281 10.7	S 8 11.1			
	18	248 36.6	89 50.5	N 8 55.3	S 35	5 46	6 26	17 39	18 20	Rigel Kent	139 47.9	S 60 54.2			
	19	263 39.1	104 50.7	N 8 54.4	S 40	5 48	6 31	17 35	18 18	Schedar	349 38.2	N 56 37.3			
	20	278 41.5	119 50.9	N 8 53.5	S 45	5 50	6 37	17 29	18 16	Shaula	96 19.7	S 37 6.8			
	21	293 44.0	134 51.1	N 8 52.6	S 50	5 52	6 43	17 23	18 14	Sirius	258 32.4	S 16 44.0			
	22	308 46.4	149 51.3	N 8 51.7	S 55	5 54	6 52	17 15	18 12	Spica	158 29.9	S 11 14.4			
23	323 48.9	164 51.5	N 8 50.8	S 60	5 56	7 2	17 4	18 11	Vega	80 37.8	N 38 48.3				
		Sol						Luna							
Día		Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase					
		m s	m s		h m										
29		1 10	1 1	0.9	12 1		13.8	99		○					
30		0 52	0 42	0.9	12 1		14.9	99							

Tabla G. Lunes 31 de agosto – martes 1 de septiembre de 2015.

Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas					
		GHA	GHA	Dec.	Nombre	SHA	Dec.											
31	h																	
	0	338 51.4	179 51.7	N 8 49.9	N 60	3 44	4 58	19 4	20 17	Achernar	335 25.4	S 57 9.2						
	1	353 53.8	194 51.9	N 8 49.0	N 55	4 7	5 9	18 53	19 55	Acruz	173 8.1	S 63 11.2						
	2	8 56.3	209 52.1	N 8 48.1	N 50	4 24	5 18	18 45	19 39	Adhara	255 11.6	S 28 59.6						
	3	23 58.8	224 52.2	N 8 47.2	N 45	4 37	5 25	18 38	19 26	Aldebaran	290 47.7	N 16 32.3						
	4	39 1.2	239 52.4	N 8 46.3	N 40	4 47	5 31	18 32	19 16	Alioth	166 20.0	N 55 52.8						
	5	54 3.7	254 52.6	N 8 45.4	N 35	4 55	5 36	18 27	19 8	Alkaid	152 58.0	N 49 14.5						
	6	69 6.2	269 52.8	N 8 44.5	N 30	5 2	5 41	18 23	19 2	Alnair	27 41.5	S 46 52.9						
	7	84 8.6	284 53.0	N 8 43.6	N 25	5 8	5 45	18 19	18 56	Alnilam	275 44.9	S 1 11.6						
	8	99 11.1	299 53.2	N 8 42.7	N 20	5 13	5 48	18 15	18 51	Alphard	217 54.9	S 8 43.6						
	9	114 13.6	314 53.4	N 8 41.8	N 15	5 17	5 52	18 12	18 47	Alpheratz	357 41.6	N 29 10.7						
	10	129 16.0	329 53.6	N 8 40.9	N 14	5 18	5 52	18 12	18 46	Altair	62 6.7	N 8 54.8						
	11	144 18.5	344 53.8	N 8 40.0	N 13	5 19	5 53	18 11	18 45	Antares	112 24.4	S 26 27.8						
	12	159 20.9	359 54.0	N 8 39.1	N 12	5 20	5 53	18 10	18 44	Arcturus	145 54.3	N 19 6.9						
	13	174 23.4	14 54.2	N 8 38.2	N 11	5 20	5 54	18 10	18 44	Atria	107 24.7	S 69 3.4						
	14	189 25.9	29 54.4	N 8 37.3	N 10	5 21	5 55	18 9	18 43	Avior	234 17.9	S 59 33.5						
	15	204 28.3	44 54.6	N 8 36.4	N 9	5 22	5 55	18 9	18 42	Bellatrix	278 30.5	N 6 21.7						
	16	219 30.8	59 54.8	N 8 35.5	N 8	5 22	5 56	18 8	18 41	Betelgeuse	270 59.8	N 7 24.5						
	17	234 33.3	74 55.0	N 8 34.6	N 7	5 23	5 57	18 7	18 41	Canopus	263 55.7	S 52 42.1						
	18	249 35.7	89 55.2	N 8 33.7	N 6	5 24	5 57	18 7	18 40	Capella	280 32.3	N 46 0.6						
	19	264 38.2	104 55.4	N 8 32.8	N 5	5 25	5 58	18 6	18 39	Deneb	49 30.0	N 45 20.5						
	20	279 40.7	119 55.6	N 8 31.9	N 4	5 25	5 58	18 6	18 39	Denebola	182 32.3	N 14 29.2						
	21	294 43.1	134 55.8	N 8 31.0	N 3	5 26	5 59	18 5	18 38	Dubhe	193 50.6	N 61 40.0						
22	309 45.6	149 56.0	N 8 30.1	N 2	5 26	6 0	18 4	18 38	Elnath	278 10.8	N 28 37.0							
23	324 48.0	164 56.2	N 8 29.2	N 1	5 27	6 0	18 4	18 37	Eltanin	90 45.2	N 51 29.7							
1	0	339 50.5	179 56.4	N 8 28.3	S 1	5 28	6 1	18 3	18 36	Enif	33 45.3	N 9 57.1						
	1	354 53.0	194 56.5	N 8 27.4	S 2	5 29	6 2	18 2	18 35	Formalhaut	15 22.1	S 29 32.1						
	2	9 55.4	209 56.7	N 8 26.5	S 3	5 29	6 3	18 2	18 35	Gacrux	171 59.6	S 57 12.0						
	3	24 57.9	224 56.9	N 8 25.6	S 4	5 30	6 3	18 1	18 34	Hadar	148 46.0	S 60 27.0						
	4	40 0.4	239 57.1	N 8 24.7	S 5	5 31	6 4	18 0	18 34	Hamal	327 58.9	N 23 32.1						
	5	55 2.8	254 57.3	N 8 23.8	S 6	5 31	6 4	18 0	18 33	Kaus Aust	83 41.6	S 34 22.4						
	6	70 5.3	269 57.5	N 8 22.9	S 7	5 32	6 5	17 59	18 32	Kochab	137 20.7	N 74 5.9						
	7	85 7.8	284 57.7	N 8 22.0	S 8	5 32	6 5	17 59	18 32	Markab	13 36.5	N 15 17.5						
	8	100 10.2	299 57.9	N 8 21.1	S 9	5 33	6 6	17 58	18 31	Menkent	148 5.8	S 36 26.6						
	9	115 12.7	314 58.1	N 8 20.2	S 10	5 33	6 7	17 57	18 31	Miaplacidu	221 40.0	S 69 46.9						
	10	130 15.2	329 58.3	N 8 19.3	S 11	5 34	6 7	17 57	18 31	Mirfak	308 38.0	N 49 54.7						
	11	145 17.6	344 58.5	N 8 18.3	S 12	5 34	6 8	17 56	18 30	Nunki	75 56.2	S 26 16.4						
	12	160 20.1	359 58.7	N 8 17.4	S 13	5 35	6 8	17 56	18 30	Peacock	53 16.4	S 56 40.9						
	13	175 22.5	14 58.9	N 8 16.5	S 14	5 35	6 9	17 55	18 29	Pollux	243 26.0	N 27 59.1						
	14	190 25.0	29 59.1	N 8 15.6	S 15	5 36	6 10	17 54	18 29	Procyon	244 58.2	N 5 11.3						
	15	205 27.5	44 59.3	N 8 14.7	S 20	5 38	6 13	17 51	18 27	Rasalhague	96 5.0	N 12 33.4						
	16	220 29.9	59 59.5	N 8 13.8	S 25	5 40	6 16	17 48	18 25	Regulus	207 42.2	N 11 53.4						
	17	235 32.4	74 59.7	N 8 12.9	S 30	5 42	6 20	17 45	18 23	Rigel	281 10.7	S 8 11.0						
	18	250 34.9	89 59.9	N 8 12.0	S 35	5 43	6 24	17 41	18 21	Rigel Kent	139 47.9	S 60 54.2						
	19	265 37.3	105 0.1	N 8 11.1	S 40	5 45	6 28	17 36	18 20	Schedar	349 38.2	N 56 37.3						
	20	280 39.8	120 0.3	N 8 10.2	S 45	5 47	6 33	17 31	18 18	Shaula	96 19.7	S 37 6.8						
	21	295 42.3	135 0.5	N 8 9.3	S 50	5 48	6 39	17 26	18 17	Sirius	258 32.4	S 16 43.9						
	22	310 44.7	150 0.7	N 8 8.4	S 55	5 49	6 47	17 18	18 16	Spica	158 29.9	S 11 14.4						
23	325 47.2	165 0.9	N 8 7.5	S 60	5 50	6 56	17 9	18 15	Vega	80 37.8	N 38 48.3							
Día	Sol				Luna													
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día	Porcentaje de iluminación	Fase											
31	m s	m s		h m														
	0 33	0 24	0.9	12 0	16.1	97												
1	0 14	0 5	0.9	12 0	17.2	92												

Tabla G. Miércoles 2 de septiembre – jueves 3 de septiembre de 2015.


Día	TU	Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		Aries	Sol							Nombre	SHA	Dec.
		GHA	GHA	Dec.		h m	h m	h m	h m		° / ' / "	° / ' / "
2	h	° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m		° / ' / "	° / ' / "
	0	340 49.7	180 1.1	N 8 6.6	N 60	3 50	5 3	18 59	20 11	Achernar	335 25.4	S 57 9.2
	1	355 52.1	195 1.3	N 8 5.6	N 55	4 12	5 13	18 48	19 49	Acrux	173 8.1	S 63 11.2
	2	10 54.6	210 1.5	N 8 4.7	N 50	4 28	5 21	18 40	19 34	Adhara	255 11.5	S 28 59.6
	3	25 57.0	225 1.7	N 8 3.8	N 45	4 39	5 28	18 34	19 22	Aldebaran	290 47.7	N 16 32.3
	4	40 59.5	240 1.9	N 8 2.9	N 40	4 49	5 33	18 29	19 13	Alioth	166 20.0	N 55 52.8
	5	56 2.0	255 2.1	N 8 2.0	N 35	4 57	5 38	18 24	19 5	Alkaid	152 58.1	N 49 14.5
	6	71 4.4	270 2.3	N 8 1.1	N 30	5 3	5 42	18 20	18 59	Alnair	27 41.5	S 46 52.9
	7	86 6.9	285 2.5	N 8 0.2	N 25	5 9	5 45	18 17	18 54	Alnilam	275 44.9	S 1 11.6
	8	101 9.4	300 2.7	N 7 59.3	N 20	5 13	5 49	18 14	18 49	Alphard	217 54.9	S 8 43.6
	9	116 11.8	315 2.9	N 7 58.4	N 15	5 17	5 52	18 11	18 45	Alpheratz	357 41.6	N 29 10.7
	10	131 14.3	330 3.1	N 7 57.5	N 14	5 18	5 52	18 10	18 44	Altair	62 6.7	N 8 54.8
	11	146 16.8	345 3.3	N 7 56.6	N 13	5 19	5 53	18 10	18 44	Antares	112 24.4	S 26 27.8
	12	161 19.2	0 3.5	N 7 55.6	N 12	5 20	5 53	18 9	18 43	Arcturus	145 54.3	N 19 6.9
	13	176 21.7	15 3.7	N 7 54.7	N 11	5 20	5 54	18 8	18 42	Atria	107 24.7	S 69 3.4
	14	191 24.1	30 3.9	N 7 53.8	N 10	5 21	5 55	18 8	18 42	Avior	234 17.8	S 59 33.5
	15	206 26.6	45 4.1	N 7 52.9	N 9	5 22	5 55	18 7	18 41	Bellatrix	278 30.5	N 6 21.7
	16	221 29.1	60 4.3	N 7 52.0	N 8	5 22	5 56	18 7	18 40	Betelgeuse	270 59.8	N 7 24.5
	17	236 31.5	75 4.5	N 7 51.1	N 7	5 23	5 56	18 6	18 40	Canopus	263 55.7	S 52 42.1
	18	251 34.0	90 4.7	N 7 50.2	N 6	5 24	5 57	18 6	18 39	Capella	280 32.3	N 46 0.6
	19	266 36.5	105 4.9	N 7 49.3	N 5	5 24	5 57	18 5	18 38	Deneb	49 30.0	N 45 20.5
	20	281 38.9	120 5.1	N 7 48.3	N 4	5 25	5 58	18 5	18 38	Denebola	182 32.3	N 14 29.2
	21	296 41.4	135 5.3	N 7 47.4	N 3	5 25	5 59	18 4	18 37	Dubhe	193 50.6	N 61 40.0
22	311 43.9	150 5.5	N 7 46.5	N 2	5 26	5 59	18 4	18 37	Elnath	278 10.8	N 28 37.0	
23	326 46.3	165 5.7	N 7 45.6	N 1	5 27	6 0	18 3	18 36	Eltanin	90 45.3	N 51 29.7	
				0	5 27	6 0	18 3	18 36				
3	0	341 48.8	180 5.9	N 7 44.7	S 1	5 28	6 1	18 2	18 35	Enif	33 45.3	N 9 57.1
	1	356 51.3	195 6.2	N 7 43.8	S 2	5 28	6 1	18 2	18 35	Formalhaut	15 22.1	S 29 32.1
	2	11 53.7	210 6.4	N 7 42.9	S 3	5 29	6 2	18 1	18 34	Gacrux	171 59.6	S 57 12.0
	3	26 56.2	225 6.6	N 7 41.9	S 4	5 29	6 2	18 0	18 34	Hadar	148 46.0	S 60 27.0
	4	41 58.6	240 6.8	N 7 41.0	S 5	5 30	6 3	18 0	18 33	Hamal	327 58.9	N 23 32.1
	5	57 1.1	255 7.0	N 7 40.1	S 6	5 30	6 3	17 59	18 33	Kaus Aust	83 41.6	S 34 22.4
	6	72 3.6	270 7.2	N 7 39.2	S 7	5 31	6 4	17 59	18 32	Kochab	137 20.7	N 74 5.9
	7	87 6.0	285 7.4	N 7 38.3	S 8	5 31	6 4	17 58	18 32	Markab	13 36.5	N 15 17.6
	8	102 8.5	300 7.6	N 7 37.4	S 9	5 32	6 5	17 58	18 31	Menkent	148 5.8	S 36 26.6
	9	117 11.0	315 7.8	N 7 36.5	S 10	5 32	6 6	17 57	18 31	Miaplacidu	221 40.0	S 69 46.9
	10	132 13.4	330 8.0	N 7 35.5	S 11	5 32	6 6	17 57	18 30	Mirfak	308 38.0	N 49 54.7
	11	147 15.9	345 8.2	N 7 34.6	S 12	5 33	6 7	17 56	18 30	Nunki	75 56.3	S 26 16.4
	12	162 18.4	0 8.4	N 7 33.7	S 13	5 33	6 7	17 56	18 30	Peacock	53 16.5	S 56 40.9
	13	177 20.8	15 8.6	N 7 32.8	S 14	5 34	6 8	17 55	18 29	Pollux	243 26.0	N 27 59.1
	14	192 23.3	30 8.8	N 7 31.9	S 15	5 34	6 8	17 55	18 29	Procyon	244 58.2	N 5 11.3
	15	207 25.8	45 9.0	N 7 31.0	S 20	5 36	6 11	17 52	18 27	Rasalhague	96 5.0	N 12 33.4
	16	222 28.2	60 9.2	N 7 30.0	S 25	5 38	6 14	17 49	18 25	Regulus	207 42.2	N 11 53.4
	17	237 30.7	75 9.4	N 7 29.1	S 30	5 39	6 17	17 46	18 24	Rigel	281 10.7	S 8 11.0
	18	252 33.1	90 9.6	N 7 28.2	S 35	5 41	6 21	17 42	18 22	Rigel Kent	139 47.9	S 60 54.2
	19	267 35.6	105 9.8	N 7 27.3	S 40	5 42	6 25	17 38	18 21	Schedar	349 38.2	N 56 37.3
	20	282 38.1	120 10.0	N 7 26.4	S 45	5 43	6 30	17 34	18 20	Shaula	96 19.8	S 37 6.8
	21	297 40.5	135 10.2	N 7 25.5	S 50	5 44	6 35	17 28	18 20	Sirius	258 32.4	S 16 43.9
	22	312 43.0	150 10.4	N 7 24.5	S 55	5 44	6 42	17 22	18 19	Spica	158 29.9	S 11 14.4
23	327 45.5	165 10.6	N 7 23.6	S 60	5 44	6 50	17 13	18 20	Vega	80 37.8	N 38 48.3	
		Sol			Luna							
Día		Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día	Porcentaje de iluminación		Fase			
		m s	m s		h m							
2		0 5	0 14	0.9	12 0	18.3	85					
3		0 24	0 34	0.9	11 59	19.4	75					

Tabla G. Viernes 4 de septiembre – sábado 5 de septiembre de 2015.

Día	TU	Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.						Nombre	SHA	Dec.
4	h	° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m		° / ' / "	° / ' / "
	0	342 47.9	180 10.8	N 7 22.7	N 60	3 56	5 7	18 52	20 4	Achernar	335 25.4	S 57 9.2
	1	357 50.4	195 11.1	N 7 21.8	N 55	4 16	5 17	18 43	19 44	Acruz	173 8.1	S 63 11.2
	2	12 52.9	210 11.3	N 7 20.9	N 50	4 31	5 24	18 36	19 29	Adhara	255 11.5	S 28 59.6
	3	27 55.3	225 11.5	N 7 19.9	N 45	4 42	5 30	18 30	19 18	Aldebaran	290 47.6	N 16 32.3
	4	42 57.8	240 11.7	N 7 19.0	N 40	4 51	5 35	18 26	19 10	Alioth	166 20.0	N 55 52.7
	5	58 0.2	255 11.9	N 7 18.1	N 35	4 58	5 39	18 22	19 2	Alkaid	152 58.1	N 49 14.4
	6	73 2.7	270 12.1	N 7 17.2	N 30	5 4	5 43	18 18	18 57	Alnair	27 41.5	S 26 52.9
	7	88 5.2	285 12.3	N 7 16.3	N 25	5 9	5 46	18 15	18 52	Alnilam	275 44.9	S 1 11.6
	8	103 7.6	300 12.5	N 7 15.3	N 20	5 14	5 49	18 12	18 47	Alphard	217 54.9	S 8 43.6
	9	118 10.1	315 12.7	N 7 14.4	N 15	5 18	5 52	18 9	18 44	Alpheratz	357 41.6	N 29 10.7
	10	133 12.6	330 12.9	N 7 13.5	N 14	5 18	5 52	18 9	18 43	Altair	62 6.7	N 8 54.8
	11	148 15.0	345 13.1	N 7 12.6	N 13	5 19	5 53	18 8	18 42	Antares	112 24.4	S 26 27.8
	12	163 17.5	0 13.3	N 7 11.7	N 12	5 20	5 53	18 8	18 42	Arcturus	145 54.3	N 19 6.9
	13	178 20.0	15 13.5	N 7 10.7	N 11	5 20	5 54	18 7	18 41	Atria	107 24.8	S 69 3.4
	14	193 22.4	30 13.7	N 7 9.8	N 10	5 21	5 55	18 7	18 40	Avior	234 17.8	S 59 33.5
	15	208 24.9	45 13.9	N 7 8.9	N 9	5 22	5 55	18 6	18 40	Bellatrix	278 30.4	N 6 21.7
	16	223 27.4	60 14.1	N 7 8.0	N 8	5 22	5 56	18 6	18 39	Betelgeuse	270 59.8	N 7 24.5
	17	238 29.8	75 14.4	N 7 7.0	N 7	5 23	5 56	18 5	18 39	Canopus	263 55.7	S 52 42.1
	18	253 32.3	90 14.6	N 7 6.1	N 6	5 23	5 57	18 5	18 38	Capella	280 32.3	N 46 0.6
	19	268 34.7	105 14.8	N 7 5.2	N 5	5 24	5 57	18 4	18 37	Deneb	49 30.0	N 45 20.5
	20	283 37.2	120 15.0	N 7 4.3	N 4	5 24	5 58	18 4	18 37	Denebola	182 32.3	N 14 29.2
	21	298 39.7	135 15.2	N 7 3.4	N 3	5 25	5 58	18 3	18 36	Dubhe	193 50.6	N 61 40.0
22	313 42.1	150 15.4	N 7 2.4	N 2	5 25	5 58	18 3	18 36	Elnath	278 10.8	N 28 37.0	
23	328 44.6	165 15.6	N 7 1.5	N 1	5 26	5 59	18 2	18 35	Eltanin	90 45.3	N 51 29.7	
5	0	343 47.1	180 15.8	N 7 0.6	S 1	5 27	6 0	18 1	18 34	Enif	33 45.3	N 9 57.1
	1	358 49.5	195 16.0	N 6 59.7	S 2	5 27	6 0	18 1	18 34	Formalhaut	15 22.1	S 29 32.1
	2	13 52.0	210 16.2	N 6 58.7	S 3	5 28	6 1	18 1	18 34	Gacrux	171 59.6	S 57 12.0
	3	28 54.5	225 16.4	N 6 57.8	S 4	5 28	6 1	18 0	18 33	Hadar	148 46.0	S 60 26.9
	4	43 56.9	240 16.6	N 6 56.9	S 5	5 29	6 2	18 0	18 33	Hamal	327 58.9	N 23 32.1
	5	58 59.4	255 16.8	N 6 56.0	S 6	5 29	6 2	17 59	18 32	Kaus Aust	83 41.6	S 34 22.4
	6	74 1.9	270 17.1	N 6 55.0	S 7	5 30	6 3	17 59	18 32	Kochab	137 20.8	N 74 5.9
	7	89 4.3	285 17.3	N 6 54.1	S 8	5 30	6 3	17 58	18 31	Markab	13 36.5	N 15 17.6
	8	104 6.8	300 17.5	N 6 53.2	S 9	5 31	6 4	17 58	18 31	Menkent	148 5.8	S 36 26.6
	9	119 9.2	315 17.7	N 6 52.3	S 10	5 31	6 4	17 57	18 31	Miaplacidu	221 39.9	S 69 46.9
	10	134 11.7	330 17.9	N 6 51.3	S 11	5 31	6 5	17 57	18 30	Mirfak	308 38.0	N 49 54.7
	11	149 14.2	345 18.1	N 6 50.4	S 12	5 32	6 5	17 56	18 30	Nunki	75 56.3	S 26 16.4
	12	164 16.6	0 18.3	N 6 49.5	S 13	5 32	6 6	17 56	18 30	Peacock	53 16.5	S 56 40.9
	13	179 19.1	15 18.5	N 6 48.6	S 14	5 32	6 6	17 55	18 29	Pollux	243 26.0	N 27 59.1
	14	194 21.6	30 18.7	N 6 47.6	S 15	5 33	6 7	17 55	18 29	Procyon	244 58.2	N 5 11.3
	15	209 24.0	45 18.9	N 6 46.7	S 20	5 34	6 9	17 52	18 27	Rasalhague	96 5.0	N 12 33.4
	16	224 26.5	60 19.1	N 6 45.8	S 25	5 36	6 12	17 50	18 26	Regulus	207 42.2	N 11 53.4
	17	239 29.0	75 19.3	N 6 44.8	S 30	5 37	6 15	17 47	18 25	Rigel	281 10.7	S 8 11.0
	18	254 31.4	90 19.6	N 6 43.9	S 35	5 38	6 18	17 44	18 24	Rigel Kent	139 48.0	S 60 54.2
	19	269 33.9	105 19.8	N 6 43.0	S 40	5 39	6 22	17 40	18 23	Schedar	349 38.2	N 56 37.3
	20	284 36.3	120 20.0	N 6 42.1	S 45	5 39	6 26	17 36	18 23	Shaula	96 19.8	S 37 6.8
	21	299 38.8	135 20.2	N 6 41.1	S 50	5 40	6 31	17 31	18 23	Sirius	258 32.4	S 16 43.9
	22	314 41.3	150 20.4	N 6 40.2	S 55	5 40	6 37	17 26	18 23	Spica	158 29.9	S 11 14.4
23	329 43.7	165 20.6	N 6 39.3	S 60	5 39	6 45	17 18	18 24	Vega	80 37.8	N 38 48.3	
Día	Sol				Luna							
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día	Porcentaje de iluminación		Fase				
4	m s	m s		h m								
5	0 43	0 53	0.9	11 59	20.4	65						
	1 3	1 13	0.9	11 59	21.5	54						

Tabla G. Domingo 6 de septiembre – Lunes 7 de septiembre de 2015.


Día	TU	Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		Aries	Sol							Nombre	SHA	Dec.
		GHA	GHA	Dec.								
		° /	° /	° /	°	h m	h m	h m	h m		° /	° /
6	0	344 46.2	180 20.8	N 6 38.4	N 60	4 1	5 12	18 46	19 57	Achernar	335 25.4	S 57 9.2
	1	359 48.7	195 21.0	N 6 37.4	N 55	4 20	5 21	18 38	19 38	Acrux	173 8.1	S 63 11.2
	2	14 51.1	210 21.2	N 6 36.5	N 50	4 34	5 27	18 32	19 25	Adhara	255 11.5	S 28 59.6
	3	29 53.6	225 21.4	N 6 35.6	N 45	4 45	5 33	18 27	19 14	Aldebaran	290 47.6	N 16 32.3
	4	44 56.1	240 21.7	N 6 34.6	N 40	4 53	5 37	18 22	19 6	Alioth	166 20.0	N 55 52.7
	5	59 58.5	255 21.9	N 6 33.7	N 35	5 0	5 41	18 19	18 59	Alkaid	152 58.1	N 49 14.4
	6	75 1.0	270 22.1	N 6 32.8	N 30	5 6	5 44	18 16	18 54	Alnair	27 41.5	S 46 52.9
	7	90 3.5	285 22.3	N 6 31.8	N 25	5 10	5 47	18 13	18 49	Alnilam	275 44.9	S 1 11.6
	8	105 5.9	300 22.5	N 6 30.9	N 20	5 14	5 50	18 10	18 45	Alphard	217 54.9	S 8 43.6
	9	120 8.4	315 22.7	N 6 30.0	N 15	5 18	5 52	18 8	18 42	Alpheratz	357 41.6	N 29 10.7
	10	135 10.8	330 22.9	N 6 29.1	N 14	5 18	5 53	18 7	18 41	Altair	62 6.7	N 8 54.8
	11	150 13.3	345 23.1	N 6 28.1	N 13	5 19	5 53	18 7	18 41	Antares	112 24.4	S 26 27.8
	12	165 15.8	0 23.3	N 6 27.2	N 12	5 20	5 53	18 6	18 40	Arcturus	145 54.3	N 19 6.9
	13	180 18.2	15 23.6	N 6 26.3	N 11	5 20	5 54	18 6	18 40	Atria	107 24.8	S 69 3.4
	14	195 20.7	30 23.8	N 6 25.3	N 10	5 21	5 54	18 6	18 39	Avior	234 17.8	S 59 33.5
	15	210 23.2	45 24.0	N 6 24.4	N 9	5 21	5 55	18 5	18 38	Bellatrix	278 30.4	N 6 21.7
	16	225 25.6	60 24.2	N 6 23.5	N 8	5 22	5 55	18 5	18 38	Betelgeuse	270 59.8	N 7 24.5
	17	240 28.1	75 24.4	N 6 22.5	N 7	5 23	5 56	18 4	18 37	Canopus	263 55.7	S 52 42.1
	18	255 30.6	90 24.6	N 6 21.6	N 6	5 23	5 56	18 4	18 37	Capella	280 32.3	N 46 0.6
	19	270 33.0	105 24.8	N 6 20.7	N 5	5 24	5 57	18 3	18 36	Deneb	49 30.0	N 45 20.5
	20	285 35.5	120 25.0	N 6 19.7	N 4	5 24	5 57	18 3	18 36	Denebola	182 32.3	N 14 29.2
	21	300 38.0	135 25.2	N 6 18.8	N 3	5 25	5 57	18 3	18 35	Dubhe	193 50.6	N 61 40.0
	22	315 40.4	150 25.5	N 6 17.9	N 2	5 25	5 58	18 2	18 35	Elnath	278 10.8	N 28 37.0
23	330 42.9	165 25.7	N 6 16.9	N 1	5 25	5 58	18 2	18 35	Eltanin	90 45.3	N 51 29.7	
					0	5 26	5 59	18 1	18 34			
7	0	345 45.3	180 25.9	N 6 16.0	S 1	5 26	5 59	18 1	18 34	Enif	33 45.3	N 9 57.1
	1	0 47.8	195 26.1	N 6 15.1	S 2	5 27	6 0	18 0	18 33	Formalhaut	15 22.1	S 29 32.1
	2	15 50.3	210 26.3	N 6 14.1	S 3	5 27	6 0	18 0	18 33	Gacrux	171 59.6	S 57 12.0
	3	30 52.7	225 26.5	N 6 13.2	S 4	5 28	6 1	18 0	18 33	Hadar	148 46.0	S 60 26.9
	4	45 55.2	240 26.7	N 6 12.3	S 5	5 28	6 1	17 59	18 32	Hamal	327 58.8	N 23 32.1
	5	60 57.7	255 26.9	N 6 11.3	S 6	5 28	6 1	17 59	18 32	Kaus Aust	83 41.6	S 34 22.4
	6	76 0.1	270 27.2	N 6 10.4	S 7	5 29	6 2	17 58	18 31	Kochab	137 20.8	N 74 5.9
	7	91 2.6	285 27.4	N 6 9.5	S 8	5 29	6 2	17 58	18 31	Markab	13 36.5	N 15 17.6
	8	106 5.1	300 27.6	N 6 8.5	S 9	5 29	6 3	17 57	18 31	Menkent	148 5.8	S 36 26.6
	9	121 7.5	315 27.8	N 6 7.6	S 10	5 30	6 3	17 57	18 30	Miaplacidu	221 39.9	S 69 46.9
	10	136 10.0	330 28.0	N 6 6.7	S 11	5 30	6 4	17 57	18 30	Mirfak	308 37.9	N 49 54.7
	11	151 12.5	345 28.2	N 6 5.7	S 12	5 30	6 4	17 56	18 30	Nunki	75 56.3	S 26 16.4
	12	166 14.9	0 28.4	N 6 4.8	S 13	5 31	6 4	17 56	18 30	Peacock	53 16.5	S 56 40.9
	13	181 17.4	15 28.6	N 6 3.9	S 14	5 31	6 5	17 55	18 29	Pollux	243 26.0	N 27 59.1
	14	196 19.8	30 28.9	N 6 2.9	S 15	5 31	6 5	17 55	18 29	Procyon	244 58.2	N 5 11.3
	15	211 22.3	45 29.1	N 6 2.0	S 20	5 33	6 8	17 53	18 28	Rasalhague	96 5.0	N 12 33.4
	16	226 24.8	60 29.3	N 6 1.1	S 25	5 34	6 10	17 50	18 27	Regulus	207 42.2	N 11 53.4
	17	241 27.2	75 29.5	N 6 0.1	S 30	5 35	6 13	17 48	18 26	Rigel	281 10.6	S 8 11.0
	18	256 29.7	90 29.7	N 5 59.2	S 35	5 35	6 15	17 45	18 25	Rigel Kent	139 48.0	S 60 54.2
	19	271 32.2	105 29.9	N 5 58.2	S 40	5 36	6 19	17 42	18 25	Schedar	349 38.2	N 56 37.3
	20	286 34.6	120 30.1	N 5 57.3	S 45	5 36	6 22	17 38	18 25	Shaula	96 19.8	S 37 6.8
	21	301 37.1	135 30.3	N 5 56.4	S 50	5 36	6 27	17 34	18 25	Sirius	258 32.4	S 16 43.9
	22	316 39.6	150 30.6	N 5 55.4	S 55	5 35	6 32	17 29	18 27	Spica	158 29.9	S 11 14.4
23	331 42.0	165 30.8	N 5 54.5	S 60	5 33	6 39	17 23	18 29	Vega	80 37.8	N 38 48.3	
Día		Sol			Luna							
		Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase		
		m s	m s		h m							
6		1 23	1 33	0.9	11 58		22.6	43				
7		1 44	1 54	0.9	11 58		23.6	33				

Tabla G. Martes 8 de septiembre – miércoles 9 de septiembre de 2015.


Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
8	h	° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m	Nombre	° / ' / "	° / ' / "			
	0	346 44.5	180 31.0	N 5 53.6	N 60	4 7	5 17	18 40	19 50	Achernar	335 25.3	S 57 9.3			
	1	1 46.9	195 31.2	N 5 52.6	N 55	4 25	5 24	18 33	19 33	Acruz	173 8.1	S 63 11.2			
	2	16 49.4	210 31.4	N 5 51.7	N 50	4 37	5 30	18 27	19 20	Adhara	255 11.5	S 28 59.6			
	3	31 51.9	225 31.6	N 5 50.8	N 45	4 47	5 35	18 23	19 10	Aldebaran	290 47.6	N 16 32.3			
	4	46 54.3	240 31.8	N 5 49.8	N 40	4 55	5 39	18 19	19 3	Alioth	166 20.0	N 55 52.7			
	5	61 56.8	255 32.1	N 5 48.9	N 35	5 1	5 42	18 16	18 57	Alkaid	152 58.1	N 49 14.4			
	6	76 59.3	270 32.3	N 5 47.9	N 30	5 7	5 45	18 13	18 51	Alnair	27 41.5	S 46 52.9			
	7	92 1.7	285 32.5	N 5 47.0	N 25	5 11	5 48	18 11	18 47	Alnilam	275 44.9	S 1 11.6			
	8	107 4.2	300 32.7	N 5 46.1	N 20	5 15	5 50	18 8	18 44	Alphard	217 54.9	S 8 43.6			
	9	122 6.7	315 32.9	N 5 45.1	N 15	5 18	5 52	18 6	18 40	Alpheratz	357 41.6	N 29 10.7			
	10	137 9.1	330 33.1	N 5 44.2	N 14	5 19	5 53	18 6	18 40	Altair	62 6.7	N 8 54.8			
	11	152 11.6	345 33.3	N 5 43.2	N 13	5 19	5 53	18 5	18 39	Antares	112 24.4	S 26 27.8			
	12	167 14.1	0 33.6	N 5 42.3	N 12	5 20	5 53	18 5	18 39	Arcturus	145 54.3	N 19 6.9			
	13	182 16.5	15 33.8	N 5 41.4	N 11	5 20	5 54	18 5	18 38	Atria	107 24.8	S 69 3.4			
	14	197 19.0	30 34.0	N 5 40.4	N 10	5 21	5 54	18 4	18 38	Avior	234 17.8	S 59 33.5			
	15	212 21.4	45 34.2	N 5 39.5	N 9	5 21	5 55	18 4	18 37	Bellatrix	278 30.4	N 6 21.7			
	16	227 23.9	60 34.4	N 5 38.5	N 8	5 22	5 55	18 4	18 37	Betelgeuse	270 59.7	N 7 24.5			
	17	242 26.4	75 34.6	N 5 37.6	N 7	5 22	5 55	18 3	18 36	Canopus	263 55.7	S 52 42.1			
	18	257 28.8	90 34.8	N 5 36.7	N 6	5 23	5 56	18 3	18 36	Capella	280 32.2	N 46 0.6			
	19	272 31.3	105 35.1	N 5 35.7	N 5	5 23	5 56	18 2	18 35	Deneb	49 30.0	N 45 20.6			
	20	287 33.8	120 35.3	N 5 34.8	N 4	5 24	5 57	18 2	18 35	Denebola	182 32.3	N 14 29.2			
	21	302 36.2	135 35.5	N 5 33.8	N 3	5 24	5 57	18 2	18 35	Dubhe	193 50.6	N 61 40.0			
22	317 38.7	150 35.7	N 5 32.9	N 2	5 24	5 57	18 1	18 34	Elnath	278 10.7	N 28 37.0				
23	332 41.2	165 35.9	N 5 32.0	N 1	5 25	5 58	18 1	18 34	Eltanin	90 45.3	N 51 29.7				
9	0	347 43.6	180 36.1	N 5 31.0	S 1	5 26	5 59	18 0	18 33	Enif	33 45.3	N 9 57.1			
	1	2 46.1	195 36.4	N 5 30.1	S 2	5 26	5 59	18 0	18 33	Formalhaut	15 22.1	S 29 32.1			
	2	17 48.6	210 36.6	N 5 29.1	S 3	5 26	5 59	17 59	18 32	Gacrux	171 59.6	S 57 12.0			
	3	32 51.0	225 36.8	N 5 28.2	S 4	5 27	6 0	17 59	18 32	Hadar	148 46.0	S 60 26.9			
	4	47 53.5	240 37.0	N 5 27.2	S 5	5 27	6 0	17 59	18 32	Hamal	327 58.8	N 23 32.2			
	5	62 55.9	255 37.2	N 5 26.3	S 6	5 27	6 0	17 58	18 31	Kaus Aust	83 41.6	S 34 22.4			
	6	77 58.4	270 37.4	N 5 25.4	S 7	5 28	6 1	17 58	18 31	Kochab	137 20.8	N 74 5.9			
	7	93 0.9	285 37.6	N 5 24.4	S 8	5 28	6 1	17 58	18 31	Markab	13 36.5	N 15 17.6			
	8	108 3.3	300 37.9	N 5 23.5	S 9	5 28	6 2	17 57	18 30	Menkent	148 5.8	S 36 26.6			
	9	123 5.8	315 38.1	N 5 22.5	S 10	5 29	6 2	17 57	18 30	Miaplacidu	221 39.9	S 69 46.9			
	10	138 8.3	330 38.3	N 5 21.6	S 11	5 29	6 2	17 57	18 30	Mirfak	308 37.9	N 49 54.7			
	11	153 10.7	345 38.5	N 5 20.7	S 12	5 29	6 3	17 56	18 30	Nunki	75 56.3	S 26 16.4			
	12	168 13.2	0 38.7	N 5 19.7	S 13	5 29	6 3	17 56	18 29	Peacock	53 16.5	S 56 41.0			
	13	183 15.7	15 38.9	N 5 18.8	S 14	5 30	6 3	17 55	18 29	Pollux	243 26.0	N 27 59.1			
	14	198 18.1	30 39.2	N 5 17.8	S 15	5 30	6 4	17 55	18 29	Procyon	244 58.2	N 5 11.3			
	15	213 20.6	45 39.4	N 5 16.9	S 20	5 31	6 6	17 53	18 28	Rasalhague	96 5.0	N 12 33.4			
	16	228 23.0	60 39.6	N 5 15.9	S 25	5 32	6 8	17 51	18 27	Regulus	207 42.2	N 11 53.4			
	17	243 25.5	75 39.8	N 5 15.0	S 30	5 32	6 10	17 49	18 27	Rigel	281 10.6	S 8 11.0			
	18	258 28.0	90 40.0	N 5 14.0	S 35	5 33	6 13	17 47	18 27	Rigel Kent	139 48.0	S 60 54.2			
	19	273 30.4	105 40.2	N 5 13.1	S 40	5 33	6 15	17 44	18 27	Schedar	349 38.2	N 56 37.3			
	20	288 32.9	120 40.5	N 5 12.2	S 45	5 32	6 19	17 41	18 27	Shaula	96 19.8	S 37 6.8			
	21	303 35.4	135 40.7	N 5 11.2	S 50	5 31	6 22	17 37	18 28	Sirius	258 32.4	S 16 43.9			
	22	318 37.8	150 40.9	N 5 10.3	S 55	5 30	6 27	17 33	18 30	Spica	158 29.9	S 11 14.4			
23	333 40.3	165 41.1	N 5 9.3	S 60	5 27	6 33	17 27	18 33	Vega	80 37.8	N 38 48.3				
Día	Sol				Luna										
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día	Porcentaje de iluminación	Fase								
	m s	m s		h m											
8	2 4	2 14	0.9	11 58	24.7	24									
9	2 25	2 35	0.9	11 57	25.6	16									

Tabla G. Jueves 10 de septiembre – viernes 11 de septiembre de 2015.


Día	TU	Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		Aries	Sol							Nombre	SHA	Dec.
		GHA	GHA	Dec.								
		° /	° /	° /	°	h m	h m	h m	h m		° /	° /
10	0	348 42.8	180 41.3	N 5 8.4	N 60	4 12	5 21	18 34	19 43	Achernar	335 25.3	S 57 9.3
	1	3 45.2	195 41.5	N 5 7.4	N 55	4 29	5 28	18 28	19 27	Acrux	173 8.1	S 63 11.2
	2	18 47.7	210 41.8	N 5 6.5	N 50	4 41	5 33	18 23	19 15	Adhara	255 11.5	S 28 59.6
	3	33 50.2	225 42.0	N 5 5.5	N 45	4 50	5 37	18 19	19 6	Aldebaran	290 47.6	N 16 32.3
	4	48 52.6	240 42.2	N 5 4.6	N 40	4 57	5 41	18 16	18 59	Alioth	166 20.0	N 55 52.7
	5	63 55.1	255 42.4	N 5 3.6	N 35	5 3	5 44	18 13	18 54	Alkaid	152 58.1	N 49 14.4
	6	78 57.5	270 42.6	N 5 2.7	N 30	5 8	5 46	18 11	18 49	Alnair	27 41.5	S 46 52.9
	7	94 0.0	285 42.8	N 5 1.8	N 25	5 12	5 48	18 9	18 45	Alnilam	275 44.9	S 1 11.6
	8	109 2.5	300 43.1	N 5 0.8	N 20	5 15	5 50	18 7	18 42	Alphard	217 54.9	S 8 43.6
	9	124 4.9	315 43.3	N 4 59.9	N 15	5 18	5 52	18 5	18 39	Alpheratz	357 41.6	N 29 10.7
	10	139 7.4	330 43.5	N 4 58.9	N 14	5 19	5 53	18 4	18 38	Altair	62 6.7	N 8 54.8
	11	154 9.9	345 43.7	N 4 58.0	N 13	5 19	5 53	18 4	18 38	Antares	112 24.4	S 26 27.8
	12	169 12.3	0 43.9	N 4 57.0	N 12	5 20	5 53	18 4	18 37	Arcturus	145 54.3	N 19 6.9
	13	184 14.8	15 44.1	N 4 56.1	N 11	5 20	5 54	18 3	18 37	Atria	107 24.8	S 69 3.4
	14	199 17.3	30 44.4	N 4 55.1	N 10	5 21	5 54	18 3	18 36	Avior	234 17.8	S 59 33.5
	15	214 19.7	45 44.6	N 4 54.2	N 9	5 21	5 54	18 3	18 36	Bellatrix	278 30.4	N 6 21.7
	16	229 22.2	60 44.8	N 4 53.2	N 8	5 22	5 55	18 2	18 36	Betelgeuse	270 59.7	N 7 24.5
	17	244 24.7	75 45.0	N 4 52.3	N 7	5 22	5 55	18 2	18 35	Canopus	263 55.6	S 52 42.1
	18	259 27.1	90 45.2	N 4 51.3	N 6	5 22	5 55	18 2	18 35	Capella	280 32.2	N 46 0.6
	19	274 29.6	105 45.5	N 4 50.4	N 5	5 23	5 56	18 1	18 34	Deneb	49 30.0	N 45 20.6
	20	289 32.0	120 45.7	N 4 49.4	N 4	5 23	5 56	18 1	18 34	Denebola	182 32.3	N 14 29.2
	21	304 34.5	135 45.9	N 4 48.5	N 3	5 24	5 56	18 1	18 34	Dubhe	193 50.6	N 61 40.0
	22	319 37.0	150 46.1	N 4 47.5	N 2	5 24	5 57	18 0	18 33	Elnath	278 10.7	N 28 37.0
23	334 39.4	165 46.3	N 4 46.6	N 1	5 24	5 57	18 0	18 33	Eltanin	90 45.3	N 51 29.7	
					0	5 25	5 57	18 0	18 33			
11	0	349 41.9	180 46.5	N 4 45.6	S 1	5 25	5 58	18 0	18 32	Enif	33 45.3	N 9 57.1
	1	4 44.4	195 46.8	N 4 44.7	S 2	5 25	5 58	17 59	18 32	Formalhaut	15 22.1	S 29 32.1
	2	19 46.8	210 47.0	N 4 43.7	S 3	5 26	5 58	17 59	18 32	Gacrux	171 59.6	S 57 12.0
	3	34 49.3	225 47.2	N 4 42.8	S 4	5 26	5 59	17 59	18 31	Hadar	148 46.0	S 60 26.9
	4	49 51.8	240 47.4	N 4 41.9	S 5	5 26	5 59	17 58	18 31	Hamal	327 58.8	N 23 32.2
	5	64 54.2	255 47.6	N 4 40.9	S 6	5 26	5 59	17 58	18 31	Kaus Aust	83 41.7	S 34 22.4
	6	79 56.7	270 47.9	N 4 40.0	S 7	5 27	6 0	17 58	18 31	Kochab	137 20.9	N 74 5.9
	7	94 59.1	285 48.1	N 4 39.0	S 8	5 27	6 0	17 57	18 30	Markab	13 36.5	N 15 17.6
	8	110 1.6	300 48.3	N 4 38.1	S 9	5 27	6 0	17 57	18 30	Menkent	148 5.8	S 36 26.6
	9	125 4.1	315 48.5	N 4 37.1	S 10	5 27	6 1	17 57	18 30	Miaplacidu	221 39.9	S 69 46.9
	10	140 6.5	330 48.7	N 4 36.2	S 11	5 28	6 1	17 56	18 30	Mirfak	308 37.9	N 49 54.7
	11	155 9.0	345 48.9	N 4 35.2	S 12	5 28	6 1	17 56	18 30	Nunki	75 56.3	S 26 16.4
	12	170 11.5	0 49.2	N 4 34.3	S 13	5 28	6 2	17 56	18 29	Peacock	53 16.5	S 56 41.0
	13	185 13.9	15 49.4	N 4 33.3	S 14	5 28	6 2	17 55	18 29	Pollux	243 25.9	N 27 59.1
	14	200 16.4	30 49.6	N 4 32.3	S 15	5 28	6 2	17 55	18 29	Procyon	244 58.2	N 5 11.3
	15	215 18.9	45 49.8	N 4 31.4	S 20	5 29	6 4	17 54	18 28	Rasalhague	96 5.0	N 12 33.4
	16	230 21.3	60 50.0	N 4 30.4	S 25	5 30	6 6	17 52	18 28	Regulus	207 42.2	N 11 53.4
	17	245 23.8	75 50.3	N 4 29.5	S 30	5 30	6 8	17 50	18 28	Rigel	281 10.6	S 8 11.0
	18	260 26.3	90 50.5	N 4 28.5	S 35	5 30	6 10	17 48	18 28	Rigel Kent	139 48.0	S 60 54.2
	19	275 28.7	105 50.7	N 4 27.6	S 40	5 29	6 12	17 46	18 29	Schedar	349 38.2	N 56 37.3
	20	290 31.2	120 50.9	N 4 26.6	S 45	5 28	6 15	17 43	18 30	Shaula	96 19.8	S 37 6.8
	21	305 33.6	135 51.1	N 4 25.7	S 50	5 27	6 18	17 40	18 31	Sirius	258 32.4	S 16 43.9
	22	320 36.1	150 51.4	N 4 24.7	S 55	5 25	6 22	17 37	18 34	Spica	158 29.9	S 11 14.4
23	335 38.6	165 51.6	N 4 23.8	S 60	5 21	6 27	17 32	18 38	Vega	80 37.8	N 38 48.3	
Día		Sol			Luna							
		Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase		
		m s	m s		h m							
10		2 45	2 56	1.0	11 57		26.6	9				
11		3 6	3 17	1.0	11 57		27.5	4				

Tabla G. Sábado 12 de septiembre – domingo 13 de septiembre de 2015.


Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas				
		GHA	GHA	Dec.	Nombre	SHA	Dec.										
12	h																
	0	350 41.0	180 51.8	N 4 22.8	N 60	4 17	5 26	18 28	19 37	Achernar	335 25.3	S 57 9.3					
	1	5 43.5	195 52.0	N 4 21.9	N 55	4 33	5 32	18 23	19 22	Acrux	173 8.1	S 63 11.2					
	2	20 46.0	210 52.2	N 4 20.9	N 50	4 44	5 36	18 19	19 11	Adhara	255 11.5	S 28 59.5					
	3	35 48.4	225 52.5	N 4 20.0	N 45	4 52	5 40	18 15	19 2	Aldebaran	290 47.6	N 16 32.3					
	4	50 50.9	240 52.7	N 4 19.0	N 40	4 59	5 43	18 13	18 56	Alioth	166 20.0	N 55 52.7					
	5	65 53.4	255 52.9	N 4 18.1	N 35	5 5	5 45	18 10	18 51	Alkaid	152 58.1	N 49 14.4					
	6	80 55.8	270 53.1	N 4 17.1	N 30	5 9	5 47	18 8	18 46	Alnair	27 41.5	S 46 52.9					
	7	95 58.3	285 53.3	N 4 16.2	N 25	5 13	5 49	18 6	18 43	Alnilam	275 44.9	S 1 11.6					
	8	111 0.8	300 53.6	N 4 15.2	N 20	5 16	5 51	18 5	18 40	Alphard	217 54.9	S 8 43.6					
	9	126 3.2	315 53.8	N 4 14.3	N 15	5 18	5 52	18 3	18 37	Alpheratz	357 41.6	N 29 10.7					
	10	141 5.7	330 54.0	N 4 13.3	N 14	5 19	5 53	18 3	18 37	Altair	62 6.7	N 8 54.8					
	11	156 8.1	345 54.2	N 4 12.4	N 13	5 19	5 53	18 3	18 36	Antares	112 24.4	S 26 27.8					
	12	171 10.6	0 54.4	N 4 11.4	N 12	5 20	5 53	18 2	18 36	Arcturus	145 54.3	N 19 6.9					
	13	186 13.1	15 54.7	N 4 10.4	N 11	5 20	5 54	18 2	18 36	Atria	107 24.9	S 69 3.4					
	14	201 15.5	30 54.9	N 4 9.5	N 10	5 21	5 54	18 2	18 35	Avior	234 17.8	S 59 33.5					
	15	216 18.0	45 55.1	N 4 8.5	N 9	5 21	5 54	18 2	18 35	Bellatrix	278 30.4	N 6 21.7					
	16	231 20.5	60 55.3	N 4 7.6	N 8	5 21	5 54	18 1	18 34	Betelgeuse	270 59.7	N 7 24.5					
	17	246 22.9	75 55.5	N 4 6.6	N 7	5 22	5 55	18 1	18 34	Canopus	263 55.6	S 52 42.1					
	18	261 25.4	90 55.8	N 4 5.7	N 6	5 22	5 55	18 1	18 34	Capella	280 32.2	N 46 0.6					
	19	276 27.9	105 56.0	N 4 4.7	N 5	5 22	5 55	18 0	18 33	Deneb	49 30.0	N 45 20.6					
	20	291 30.3	120 56.2	N 4 3.8	N 4	5 23	5 56	18 0	18 33	Denebola	182 32.3	N 14 29.2					
	21	306 32.8	135 56.4	N 4 2.8	N 3	5 23	5 56	18 0	18 33	Dubhe	193 50.6	N 61 40.0					
22	321 35.2	150 56.6	N 4 1.9	N 2	5 23	5 56	18 0	18 32	Elnath	278 10.7	N 28 37.0						
23	336 37.7	165 56.9	N 4 0.9	N 1	5 24	5 56	17 59	18 32	Eltanin	90 45.3	N 51 29.7						
13	0	351 40.2	180 57.1	N 3 59.9	S 1	5 24	5 57	17 59	18 32	Enif	33 45.3	N 9 57.1					
	1	6 42.6	195 57.3	N 3 59.0	S 2	5 24	5 57	17 59	18 31	Formalhaut	15 22.1	S 29 32.1					
	2	21 45.1	210 57.5	N 3 58.0	S 3	5 25	5 58	17 58	18 31	Gacrux	171 59.6	S 57 12.0					
	3	36 47.6	225 57.7	N 3 57.1	S 4	5 25	5 58	17 58	18 31	Hadar	148 46.0	S 60 26.9					
	4	51 50.0	240 58.0	N 3 56.1	S 5	5 25	5 58	17 58	18 31	Hamal	327 58.8	N 23 32.2					
	5	66 52.5	255 58.2	N 3 55.2	S 6	5 25	5 58	17 58	18 31	Kaus Aust	83 41.7	S 34 22.4					
	6	81 55.0	270 58.4	N 3 54.2	S 7	5 26	5 59	17 57	18 30	Kochab	137 20.9	N 74 5.8					
	7	96 57.4	285 58.6	N 3 53.3	S 8	5 26	5 59	17 57	18 30	Markab	13 36.5	N 15 17.6					
	8	111 59.9	300 58.8	N 3 52.3	S 9	5 26	5 59	17 57	18 30	Menkent	148 5.8	S 36 26.6					
	9	127 2.4	315 59.1	N 3 51.3	S 10	5 26	5 59	17 57	18 30	Miaplacidu	221 39.9	S 69 46.9					
	10	142 4.8	330 59.3	N 3 50.4	S 11	5 26	6 0	17 56	18 30	Mirfak	308 37.9	N 49 54.7					
	11	157 7.3	345 59.5	N 3 49.4	S 12	5 26	6 0	17 56	18 30	Nunki	75 56.3	S 26 16.4					
	12	172 9.7	0 59.7	N 3 48.5	S 13	5 27	6 0	17 56	18 29	Peacock	53 16.5	S 56 41.0					
	13	187 12.2	15 59.9	N 3 47.5	S 14	5 27	6 1	17 56	18 29	Pollux	243 25.9	N 27 59.1					
	14	202 14.7	31 0.2	N 3 46.6	S 15	5 27	6 1	17 55	18 29	Procyon	244 58.1	N 5 11.3					
	15	217 17.1	46 0.4	N 3 45.6	S 20	5 27	6 2	17 54	18 29	Rasalhague	96 5.0	N 12 33.4					
	16	232 19.6	61 0.6	N 3 44.6	S 25	5 28	6 4	17 53	18 29	Regulus	207 42.2	N 11 53.4					
	17	247 22.1	76 0.8	N 3 43.7	S 30	5 27	6 5	17 51	18 29	Rigel	281 10.6	S 8 11.0					
	18	262 24.5	91 1.0	N 3 42.7	S 35	5 27	6 7	17 49	18 29	Rigel Kent	139 48.0	S 60 54.2					
	19	277 27.0	106 1.3	N 3 41.8	S 40	5 26	6 9	17 48	18 30	Schedar	349 38.1	N 56 37.4					
	20	292 29.5	121 1.5	N 3 40.8	S 45	5 25	6 11	17 46	18 32	Shaula	96 19.8	S 37 6.8					
	21	307 31.9	136 1.7	N 3 39.9	S 50	5 23	6 14	17 43	18 34	Sirius	258 32.4	S 16 43.9					
	22	322 34.4	151 1.9	N 3 38.9	S 55	5 20	6 17	17 40	18 38	Spica	158 29.9	S 11 14.4					
23	337 36.9	166 2.1	N 3 37.9	S 60	5 15	6 21	17 37	18 42	Vega	80 37.8	N 38 48.3						
Día	Sol				Luna			Edad día	Porcentaje de iluminación	Fase							
	Ecuación del tiempo (00 ^h)		Corr. <i>d</i>	Paso por el meridiano													
12	m s	m s		h m				28.4	1								
13	3 27	3 38	1.0	11 56				29.3	0								

Tabla G. Lunes 14 de septiembre – martes 15 de septiembre de 2015.

Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
14	h	° /	° /	° /	°	h m	h m	h m	h m	h m	h m	h m	° /	° /	° /
	0	352 39.3	181 2.4	N 3 37.0	N 60	4 23	5 31	18 22	19 30	Achernar	335 25.3	S 57 9.3			
	1	7 41.8	196 2.6	N 3 36.0	N 55	4 37	5 36	18 18	19 16	Acrux	173 8.1	S 63 11.2			
	2	22 44.2	211 2.8	N 3 35.1	N 50	4 47	5 39	18 14	19 6	Adhara	255 11.5	S 28 59.5			
	3	37 46.7	226 3.0	N 3 34.1	N 45	4 55	5 42	18 12	18 58	Aldebaran	290 47.6	N 16 32.3			
	4	52 49.2	241 3.3	N 3 33.2	N 40	5 1	5 44	18 9	18 52	Alioth	166 20.0	N 55 52.7			
	5	67 51.6	256 3.5	N 3 32.2	N 35	5 6	5 46	18 7	18 48	Alkaid	152 58.1	N 49 14.4			
	6	82 54.1	271 3.7	N 3 31.2	N 30	5 10	5 48	18 6	18 44	Alnair	27 41.5	S 46 52.9			
	7	97 56.6	286 3.9	N 3 30.3	N 25	5 13	5 50	18 4	18 41	Alnilam	275 44.8	S 1 11.6			
	8	112 59.0	301 4.1	N 3 29.3	N 20	5 16	5 51	18 3	18 38	Alphard	217 54.9	S 8 43.6			
	9	128 1.5	316 4.4	N 3 28.4	N 15	5 19	5 53	18 2	18 36	Alpheratz	357 41.6	N 29 10.8			
	10	143 4.0	331 4.6	N 3 27.4	N 14	5 19	5 53	18 1	18 35	Altair	62 6.7	N 8 54.8			
	11	158 6.4	346 4.8	N 3 26.4	N 13	5 19	5 53	18 1	18 35	Antares	112 24.4	S 26 27.8			
	12	173 8.9	1 5.0	N 3 25.5	N 12	5 20	5 53	18 1	18 35	Arcturus	145 54.3	N 19 6.9			
	13	188 11.4	16 5.2	N 3 24.5	N 11	5 20	5 54	18 1	18 34	Atria	107 24.9	S 69 3.4			
	14	203 13.8	31 5.5	N 3 23.6	N 10	5 20	5 54	18 1	18 34	Avior	234 17.8	S 59 33.5			
	15	218 16.3	46 5.7	N 3 22.6	N 9	5 21	5 54	18 0	18 34	Bellatrix	278 30.4	N 6 21.7			
	16	233 18.7	61 5.9	N 3 21.6	N 8	5 21	5 54	18 0	18 33	Betelgeuse	270 59.7	N 7 24.5			
	17	248 21.2	76 6.1	N 3 20.7	N 7	5 21	5 54	18 0	18 33	Canopus	263 55.6	S 52 42.1			
	18	263 23.7	91 6.4	N 3 19.7	N 6	5 22	5 55	18 0	18 33	Capella	280 32.2	N 46 0.6			
	19	278 26.1	106 6.6	N 3 18.8	N 5	5 22	5 55	17 59	18 32	Deneb	49 30.0	N 45 20.6			
	20	293 28.6	121 6.8	N 3 17.8	N 4	5 22	5 55	17 59	18 32	Denebola	182 32.3	N 14 29.2			
	21	308 31.1	136 7.0	N 3 16.8	N 3	5 23	5 55	17 59	18 32	Dubhe	193 50.6	N 61 40.0			
22	323 33.5	151 7.2	N 3 15.9	N 2	5 23	5 56	17 59	18 32	Elnath	278 10.7	N 28 37.0				
23	338 36.0	166 7.5	N 3 14.9	N 1	5 23	5 56	17 59	18 31	Eltanin	90 45.4	N 51 29.7				
15	0	353 38.5	181 7.7	N 3 14.0	S 1	5 23	5 56	17 58	18 31	Enif	33 45.3	N 9 57.1			
	1	8 40.9	196 7.9	N 3 13.0	S 2	5 24	5 56	17 58	18 31	Formalhaut	15 22.1	S 29 32.1			
	2	23 43.4	211 8.1	N 3 12.0	S 3	5 24	5 57	17 58	18 31	Gacrux	171 59.6	S 57 12.0			
	3	38 45.8	226 8.4	N 3 11.1	S 4	5 24	5 57	17 58	18 30	Hadar	148 46.1	S 60 26.9			
	4	53 48.3	241 8.6	N 3 10.1	S 5	5 24	5 57	17 57	18 30	Hamal	327 58.8	N 23 32.2			
	5	68 50.8	256 8.8	N 3 9.2	S 6	5 24	5 57	17 57	18 30	Kaus Aust	83 41.7	S 34 22.4			
	6	83 53.2	271 9.0	N 3 8.2	S 7	5 25	5 58	17 57	18 30	Kochab	137 20.9	N 74 5.8			
	7	98 55.7	286 9.2	N 3 7.2	S 8	5 25	5 58	17 57	18 30	Markab	13 36.5	N 15 17.6			
	8	113 58.2	301 9.5	N 3 6.3	S 9	5 25	5 58	17 57	18 30	Menkent	148 5.8	S 36 26.6			
	9	129 0.6	316 9.7	N 3 5.3	S 10	5 25	5 58	17 56	18 30	Miaplacidu	221 39.9	S 69 46.8			
	10	144 3.1	331 9.9	N 3 4.4	S 11	5 25	5 58	17 56	18 30	Mirfak	308 37.9	N 49 54.7			
	11	159 5.6	346 10.1	N 3 3.4	S 12	5 25	5 59	17 56	18 29	Nunki	75 56.3	S 26 16.4			
	12	174 8.0	1 10.3	N 3 2.4	S 13	5 25	5 59	17 56	18 29	Peacock	53 16.5	S 56 41.0			
	13	189 10.5	16 10.6	N 3 1.5	S 14	5 25	5 59	17 56	18 29	Pollux	243 25.9	N 27 59.1			
	14	204 13.0	31 10.8	N 3 0.5	S 15	5 25	5 59	17 55	18 29	Procyon	244 58.1	N 5 11.3			
	15	219 15.4	46 11.0	N 2 59.5	S 20	5 26	6 0	17 54	18 29	Rasalhague	96 5.1	N 12 33.4			
	16	234 17.9	61 11.2	N 2 58.6	S 25	5 25	6 2	17 53	18 29	Regulus	207 42.2	N 11 53.4			
	17	249 20.3	76 11.5	N 2 57.6	S 30	5 25	6 3	17 52	18 30	Rigel	281 10.6	S 8 11.0			
	18	264 22.8	91 11.7	N 2 56.7	S 35	5 24	6 4	17 51	18 31	Rigel Kent	139 48.0	S 60 54.2			
	19	279 25.3	106 11.9	N 2 55.7	S 40	5 23	6 6	17 49	18 32	Schedar	349 38.1	N 56 37.4			
	20	294 27.7	121 12.1	N 2 54.7	S 45	5 21	6 7	17 48	18 34	Shaula	96 19.8	S 37 6.8			
	21	309 30.2	136 12.3	N 2 53.8	S 50	5 18	6 9	17 46	18 37	Sirius	258 32.3	S 16 43.9			
	22	324 32.7	151 12.6	N 2 52.8	S 55	5 14	6 12	17 44	18 41	Spica	158 29.9	S 11 14.4			
23	339 35.1	166 12.8	N 2 51.8	S 60	5 9	6 15	17 41	18 47	Vega	80 37.9	N 38 48.3				
Día	Sol				Luna										
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día	Porcentaje de iluminación		Fase							
14	m s	m s		h m											
15	4 10	4 20	1.0	11 56	0.6	0									
	4 31	4 41	1.0	11 55	1.4	2									

Tabla G. Miércoles 16 de septiembre – jueves 17 de septiembre de 2015.

Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
16	h	° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m	h m	h m	h m	Nombre	° / ' / "	° / ' / "
	0	354 37.6	181 13.0	N 2 50.9	N 60	4 28	5 36	18 16	19 23	Achernar	335 25.3	S 57 9.3			
	1	9 40.1	196 13.2	N 2 49.9	N 55	4 41	5 39	18 13	19 11	Acruz	173 8.1	S 63 11.1			
	2	24 42.5	211 13.5	N 2 49.0	N 50	4 50	5 42	18 10	19 2	Adhara	255 11.5	S 28 59.5			
	3	39 45.0	226 13.7	N 2 48.0	N 45	4 58	5 44	18 8	18 55	Aldebaran	290 47.6	N 16 32.3			
	4	54 47.5	241 13.9	N 2 47.0	N 40	5 3	5 46	18 6	18 49	Alioth	166 20.0	N 55 52.7			
	5	69 49.9	256 14.1	N 2 46.1	N 35	5 8	5 48	18 5	18 45	Alkaid	152 58.1	N 49 14.4			
	6	84 52.4	271 14.3	N 2 45.1	N 30	5 11	5 49	18 3	18 41	Alnair	27 41.5	S 46 52.9			
	7	99 54.8	286 14.6	N 2 44.1	N 25	5 14	5 51	18 2	18 38	Alnilam	275 44.8	S 1 11.6			
	8	114 57.3	301 14.8	N 2 43.2	N 20	5 17	5 52	18 1	18 36	Alphard	217 54.9	S 8 43.6			
	9	129 59.8	316 15.0	N 2 42.2	N 15	5 19	5 53	18 0	18 34	Alpheratz	357 41.6	N 29 10.8			
	10	145 2.2	331 15.2	N 2 41.2	N 14	5 19	5 53	18 0	18 34	Altair	62 6.7	N 8 54.8			
	11	160 4.7	346 15.5	N 2 40.3	N 13	5 19	5 53	18 0	18 33	Antares	112 24.5	S 26 27.8			
	12	175 7.2	1 15.7	N 2 39.3	N 12	5 20	5 53	18 0	18 33	Arcturus	145 54.3	N 19 6.9			
	13	190 9.6	16 15.9	N 2 38.4	N 11	5 20	5 53	17 59	18 33	Atria	107 24.9	S 69 3.4			
	14	205 12.1	31 16.1	N 2 37.4	N 10	5 20	5 54	17 59	18 33	Avior	234 17.7	S 59 33.5			
	15	220 14.6	46 16.3	N 2 36.4	N 9	5 21	5 54	17 59	18 32	Bellatrix	278 30.4	N 6 21.7			
	16	235 17.0	61 16.6	N 2 35.5	N 8	5 21	5 54	17 59	18 32	Betelgeuse	270 59.7	N 7 24.5			
	17	250 19.5	76 16.8	N 2 34.5	N 7	5 21	5 54	17 59	18 32	Canopus	263 55.6	S 52 42.1			
	18	265 21.9	91 17.0	N 2 33.5	N 6	5 21	5 54	17 59	18 32	Capella	280 32.2	N 46 0.6			
	19	280 24.4	106 17.2	N 2 32.6	N 5	5 22	5 54	17 58	18 31	Deneb	49 30.1	N 45 20.6			
	20	295 26.9	121 17.5	N 2 31.6	N 4	5 22	5 55	17 58	18 31	Denebola	182 32.3	N 14 29.2			
	21	310 29.3	136 17.7	N 2 30.6	N 3	5 22	5 55	17 58	18 31	Dubhe	193 50.6	N 61 40.0			
22	325 31.8	151 17.9	N 2 29.7	N 2	5 22	5 55	17 58	18 31	Elnath	278 10.7	N 28 37.0				
23	340 34.3	166 18.1	N 2 28.7	N 1	5 22	5 55	17 58	18 31	Eltanin	90 45.4	N 51 29.7				
17	0	355 36.7	181 18.4	N 2 27.7	S 1	5 23	5 55	17 58	18 30	Enif	33 45.3	N 9 57.1			
	1	10 39.2	196 18.6	N 2 26.8	S 2	5 23	5 56	17 57	18 30	Formalhaut	15 22.1	S 29 32.1			
	2	25 41.7	211 18.8	N 2 25.8	S 3	5 23	5 56	17 57	18 30	Gacrux	171 59.6	S 57 12.0			
	3	40 44.1	226 19.0	N 2 24.8	S 4	5 23	5 56	17 57	18 30	Hadar	148 46.1	S 60 26.9			
	4	55 46.6	241 19.2	N 2 23.9	S 5	5 23	5 56	17 57	18 30	Hamal	327 58.8	N 23 32.2			
	5	70 49.1	256 19.5	N 2 22.9	S 6	5 23	5 56	17 57	18 30	Kaus Aust	83 41.7	S 34 22.4			
	6	85 51.5	271 19.7	N 2 22.0	S 7	5 23	5 56	17 57	18 30	Kochab	137 21.0	N 74 5.8			
	7	100 54.0	286 19.9	N 2 21.0	S 8	5 24	5 57	17 57	18 30	Markab	13 36.5	N 15 17.6			
	8	115 56.4	301 20.1	N 2 20.0	S 9	5 24	5 57	17 56	18 30	Menkent	148 5.9	S 36 26.6			
	9	130 58.9	316 20.4	N 2 19.1	S 10	5 24	5 57	17 56	18 29	Miaplacidu	221 39.8	S 69 46.8			
	10	146 1.4	331 20.6	N 2 18.1	S 11	5 24	5 57	17 56	18 29	Mirfak	308 37.9	N 49 54.7			
	11	161 3.8	346 20.8	N 2 17.1	S 12	5 24	5 57	17 56	18 29	Nunki	75 56.3	S 26 16.4			
	12	176 6.3	1 21.0	N 2 16.2	S 13	5 24	5 57	17 56	18 29	Peacock	53 16.5	S 56 41.0			
	13	191 8.8	16 21.2	N 2 15.2	S 14	5 24	5 58	17 56	18 29	Pollux	243 25.9	N 27 59.1			
	14	206 11.2	31 21.5	N 2 14.2	S 15	5 24	5 58	17 55	18 29	Procyon	244 58.1	N 5 11.3			
	15	221 13.7	46 21.7	N 2 13.3	S 20	5 24	5 59	17 55	18 30	Rasalhague	96 5.1	N 12 33.4			
	16	236 16.2	61 21.9	N 2 12.3	S 25	5 23	5 59	17 54	18 30	Regulus	207 42.2	N 11 53.4			
	17	251 18.6	76 22.1	N 2 11.3	S 30	5 22	6 0	17 53	18 31	Rigel	281 10.6	S 8 11.0			
	18	266 21.1	91 22.4	N 2 10.4	S 35	5 21	6 1	17 52	18 32	Rigel Kent	139 48.1	S 60 54.2			
	19	281 23.6	106 22.6	N 2 9.4	S 40	5 20	6 2	17 51	18 34	Schedar	349 38.1	N 56 37.4			
	20	296 26.0	121 22.8	N 2 8.4	S 45	5 17	6 3	17 50	18 37	Shaula	96 19.8	S 37 6.8			
	21	311 28.5	136 23.0	N 2 7.5	S 50	5 14	6 5	17 49	18 40	Sirius	258 32.3	S 16 43.9			
	22	326 30.9	151 23.2	N 2 6.5	S 55	5 9	6 6	17 48	18 45	Spica	158 29.9	S 11 14.4			
23	341 33.4	166 23.5	N 2 5.5	S 60	5 3	6 8	17 46	18 52	Vega	80 37.9	N 38 48.3				
Día	Sol				Luna										
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día	Porcentaje de iluminación	Fase								
16	m s	m s		h m											
17	4 52	5 3	1.0	11 55	2.3	6									
	5 13	5 24	1.0	11 55	3.2	12									



Tabla G. Viernes 18 de septiembre – sábado 19 de septiembre de 2015.

Día	TU	Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.						Nombre	SHA	Dec.
18	h	° /	° /	° /	°	h m	h m	h m	h m		° /	° /
	0	356 35.9	181 23.7	N 24.6	N 60	4 33	5 40	18 10	19 17	Achernar	335 25.3	S 57 9.3
	1	11 38.3	196 23.9	N 23.6	N 55	4 45	5 43	18 7	19 5	Acrux	173 8.1	S 63 11.1
	2	26 40.8	211 24.1	N 22.6	N 50	4 54	5 45	18 5	18 57	Adhara	255 11.4	S 28 59.5
	3	41 43.3	226 24.4	N 21.7	N 45	5 0	5 47	18 4	18 51	Aldebaran	290 47.5	N 16 32.3
	4	56 45.7	241 24.6	N 20.7	N 40	5 5	5 48	18 3	18 46	Alioth	166 20.0	N 55 52.7
	5	71 48.2	256 24.8	N 159.7	N 35	5 9	5 49	18 2	18 42	Alkaid	152 58.1	N 49 14.4
	6	86 50.7	271 25.0	N 158.8	N 30	5 12	5 50	18 1	18 39	Alnair	27 41.5	S 46 52.9
	7	101 53.1	286 25.3	N 157.8	N 25	5 15	5 51	18 0	18 36	Alnilam	275 44.8	S 1 11.6
	8	116 55.6	301 25.5	N 156.8	N 20	5 17	5 52	17 59	18 34	Alphard	217 54.8	S 8 43.6
	9	131 58.0	316 25.7	N 155.9	N 15	5 19	5 53	17 59	18 33	Alpheratz	357 41.6	N 29 10.8
	10	147 0.5	331 25.9	N 154.9	N 14	5 19	5 53	17 58	18 32	Altair	62 6.7	N 8 54.9
	11	162 3.0	346 26.1	N 153.9	N 13	5 19	5 53	17 58	18 32	Antares	112 24.5	S 26 27.8
	12	177 5.4	1 26.4	N 153.0	N 12	5 20	5 53	17 58	18 32	Arcturus	145 54.3	N 19 6.9
	13	192 7.9	16 26.6	N 152.0	N 11	5 20	5 53	17 58	18 32	Atria	107 25.0	S 69 3.4
	14	207 10.4	31 26.8	N 151.0	N 10	5 20	5 53	17 58	18 31	Avior	234 17.7	S 59 33.5
	15	222 12.8	46 27.0	N 150.0	N 9	5 20	5 54	17 58	18 31	Bellatrix	278 30.3	N 6 21.7
	16	237 15.3	61 27.3	N 149.1	N 8	5 21	5 54	17 58	18 31	Betelgeuse	270 59.7	N 7 24.5
	17	252 17.8	76 27.5	N 148.1	N 7	5 21	5 54	17 58	18 31	Canopus	263 55.6	S 52 42.1
	18	267 20.2	91 27.7	N 147.1	N 6	5 21	5 54	17 58	18 31	Capella	280 32.2	N 46 0.6
	19	282 22.7	106 27.9	N 146.2	N 5	5 21	5 54	17 57	18 30	Deneb	49 30.1	N 45 20.6
	20	297 25.2	121 28.1	N 145.2	N 4	5 21	5 54	17 57	18 30	Denebola	182 32.3	N 14 29.2
	21	312 27.6	136 28.4	N 144.2	N 3	5 21	5 54	17 57	18 30	Dubhe	193 50.6	N 61 40.0
22	327 30.1	151 28.6	N 143.3	N 2	5 22	5 54	17 57	18 30	Elnath	278 10.7	N 28 37.0	
23	342 32.5	166 28.8	N 142.3	N 1	5 22	5 54	17 57	18 30	Eltanin	90 45.4	N 51 29.7	
				0	5 22	5 55	17 57	18 30				
19	0	357 35.0	181 29.0	N 141.3	S 1	5 22	5 55	17 57	18 30	Enif	33 45.3	N 9 57.1
	1	12 37.5	196 29.3	N 140.4	S 2	5 22	5 55	17 57	18 30	Formalhaut	15 22.1	S 29 32.1
	2	27 39.9	211 29.5	N 139.4	S 3	5 22	5 55	17 57	18 29	Gacrux	171 59.7	S 57 12.0
	3	42 42.4	226 29.7	N 138.4	S 4	5 22	5 55	17 57	18 29	Hadar	148 46.1	S 60 26.9
	4	57 44.9	241 29.9	N 137.5	S 5	5 22	5 55	17 57	18 29	Hamal	327 58.8	N 23 32.2
	5	72 47.3	256 30.2	N 136.5	S 6	5 22	5 55	17 56	18 29	Kaus Aust	83 41.7	S 34 22.4
	6	87 49.8	271 30.4	N 135.5	S 7	5 22	5 55	17 56	18 29	Kochab	137 21.0	N 74 5.8
	7	102 52.3	286 30.6	N 134.6	S 8	5 22	5 55	17 56	18 29	Markab	13 36.5	N 15 17.6
	8	117 54.7	301 30.8	N 133.6	S 9	5 22	5 56	17 56	18 29	Menkent	148 5.9	S 36 26.6
	9	132 57.2	316 31.0	N 132.6	S 10	5 22	5 56	17 56	18 29	Miaplacidu	221 39.8	S 69 46.8
	10	147 59.7	331 31.3	N 131.6	S 11	5 22	5 56	17 56	18 29	Mirfak	308 37.8	N 49 54.7
	11	163 2.1	346 31.5	N 130.7	S 12	5 22	5 56	17 56	18 29	Nunki	75 56.3	S 26 16.4
	12	178 4.6	1 31.7	N 129.7	S 13	5 22	5 56	17 56	18 29	Peacock	53 16.5	S 56 41.0
	13	193 7.0	16 31.9	N 128.7	S 14	5 22	5 56	17 56	18 29	Pollux	243 25.9	N 27 59.1
	14	208 9.5	31 32.2	N 127.8	S 15	5 22	5 56	17 56	18 30	Procyon	244 58.1	N 5 11.3
	15	223 12.0	46 32.4	N 126.8	S 20	5 22	5 57	17 55	18 30	Rasalhague	96 5.1	N 12 33.4
	16	238 14.4	61 32.6	N 125.8	S 25	5 21	5 57	17 55	18 31	Regulus	207 42.1	N 11 53.4
	17	253 16.9	76 32.8	N 124.9	S 30	5 20	5 58	17 54	18 32	Rigel	281 10.6	S 8 11.0
	18	268 19.4	91 33.0	N 123.9	S 35	5 18	5 58	17 54	18 34	Rigel Kent	139 48.1	S 60 54.2
	19	283 21.8	106 33.3	N 122.9	S 40	5 16	5 59	17 53	18 36	Schedar	349 38.1	N 56 37.4
	20	298 24.3	121 33.5	N 122.0	S 45	5 13	6 0	17 53	18 39	Shaula	96 19.8	S 37 6.8
	21	313 26.8	136 33.7	N 121.0	S 50	5 9	6 0	17 52	18 43	Sirius	258 32.3	S 16 43.9
	22	328 29.2	151 33.9	N 120.0	S 55	5 4	6 1	17 51	18 49	Spica	158 29.9	S 11 14.4
23	343 31.7	166 34.2	N 119.0	S 60	4 57	6 2	17 50	18 57	Vega	80 37.9	N 38 48.3	
		Sol			Luna							
Día		Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día	Porcentaje de iluminación		Fase			
		m s	m s		h m							
18		5 35	5 45	1.0	11 54	4.1	18					
19		5 56	6 7	1.0	11 54	5.0	27					

Tabla G. Domingo 20 de septiembre – Lunes 21 de septiembre de 2015.


Día	TU	Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		Aries	Sol							Nombre	SHA	Dec.
		GHA	GHA	Dec.						Nombre	SHA	Dec.
	h	° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m		° / ' / "	° / ' / "
20	0	358 34.2	181 34.4	N 1 18.1	N 60	4 38	5 45	18 4	19 10	Achernar	335 25.3	S 57 9.3
	1	13 36.6	196 34.6	N 1 17.1	N 55	4 49	5 47	18 2	19 0	Acruz	173 8.1	S 63 11.1
	2	28 39.1	211 34.8	N 1 16.1	N 50	4 57	5 48	18 1	18 52	Adhara	255 11.4	S 28 59.5
	3	43 41.5	226 35.0	N 1 15.2	N 45	5 3	5 49	18 0	18 47	Aldebaran	290 47.5	N 16 32.3
	4	58 44.0	241 35.3	N 1 14.2	N 40	5 7	5 50	17 59	18 42	Alioth	166 20.0	N 55 52.7
	5	73 46.5	256 35.5	N 1 13.2	N 35	5 11	5 51	17 59	18 39	Alkaid	152 58.1	N 49 14.4
	6	88 48.9	271 35.7	N 1 12.3	N 30	5 14	5 51	17 58	18 36	Alnair	27 41.5	S 45 53.0
	7	103 51.4	286 35.9	N 1 11.3	N 25	5 16	5 52	17 58	18 34	Alnilam	275 44.8	S 1 11.6
	8	118 53.9	301 36.2	N 1 10.3	N 20	5 18	5 52	17 57	18 32	Alphard	217 54.8	S 8 43.6
	9	133 56.3	316 36.4	N 1 9.3	N 15	5 19	5 53	17 57	18 31	Alpheratz	357 41.5	N 29 10.8
	10	148 58.8	331 36.6	N 1 8.4	N 14	5 19	5 53	17 57	18 31	Altair	62 6.7	N 8 54.9
	11	164 1.3	346 36.8	N 1 7.4	N 13	5 19	5 53	17 57	18 31	Antares	112 24.5	S 26 27.8
	12	179 3.7	1 37.0	N 1 6.4	N 12	5 20	5 53	17 57	18 30	Arcturus	145 54.3	N 19 6.9
	13	194 6.2	16 37.3	N 1 5.5	N 11	5 20	5 53	17 57	18 30	Atria	107 25.0	S 69 3.3
	14	209 8.6	31 37.5	N 1 4.5	N 10	5 20	5 53	17 57	18 30	Avior	234 17.7	S 59 33.5
	15	224 11.1	46 37.7	N 1 3.5	N 9	5 20	5 53	17 57	18 30	Bellatrix	278 30.3	N 6 21.7
	16	239 13.6	61 37.9	N 1 2.5	N 8	5 20	5 53	17 57	18 30	Betelgeuse	270 59.7	N 7 24.5
	17	254 16.0	76 38.2	N 1 1.6	N 7	5 20	5 53	17 57	18 30	Canopus	263 55.5	S 52 42.1
	18	269 18.5	91 38.4	N 1 0.6	N 6	5 21	5 54	17 57	18 29	Capella	280 32.1	N 46 0.6
	19	284 21.0	106 38.6	N 0 59.6	N 5	5 21	5 54	17 57	18 29	Deneb	49 30.1	N 45 20.6
	20	299 23.4	121 38.8	N 0 58.7	N 4	5 21	5 54	17 56	18 29	Denebola	182 32.3	N 14 29.2
	21	314 25.9	136 39.0	N 0 57.7	N 3	5 21	5 54	17 56	18 29	Dubhe	193 50.6	N 61 39.9
	22	329 28.4	151 39.3	N 0 56.7	N 2	5 21	5 54	17 56	18 29	Elnath	278 10.7	N 28 37.0
23	344 30.8	166 39.5	N 0 55.8	N 1	5 21	5 54	17 56	18 29	Eltanin	90 45.4	N 51 29.7	
21	0	359 33.3	181 39.7	N 0 54.8	S 1	5 21	5 54	17 56	18 29	Enif	33 45.3	N 9 57.1
	1	14 35.8	196 39.9	N 0 53.8	S 2	5 21	5 54	17 56	18 29	Formalhaut	15 22.1	S 29 32.2
	2	29 38.2	211 40.2	N 0 52.8	S 3	5 21	5 54	17 56	18 29	Gacrux	171 59.6	S 57 11.9
	3	44 40.7	226 40.4	N 0 51.9	S 4	5 21	5 54	17 56	18 29	Hadar	148 46.1	S 60 26.9
	4	59 43.1	241 40.6	N 0 50.9	S 5	5 21	5 54	17 56	18 29	Hamal	327 58.8	N 23 32.2
	5	74 45.6	256 40.8	N 0 49.9	S 6	5 21	5 54	17 56	18 29	Kaus Aust	83 41.7	S 34 22.4
	6	89 48.1	271 41.0	N 0 49.0	S 7	5 21	5 54	17 56	18 29	Kochab	137 21.0	N 74 5.8
	7	104 50.5	286 41.3	N 0 48.0	S 8	5 21	5 54	17 56	18 29	Markab	13 36.5	N 15 17.6
	8	119 53.0	301 41.5	N 0 47.0	S 9	5 21	5 54	17 56	18 29	Menkent	148 5.9	S 36 26.6
	9	134 55.5	316 41.7	N 0 46.0	S 10	5 21	5 54	17 56	18 29	Miaplacidu	221 39.8	S 69 46.8
	10	149 57.9	331 41.9	N 0 45.1	S 11	5 21	5 54	17 56	18 29	Mirfak	308 37.8	N 49 54.7
	11	165 0.4	346 42.1	N 0 44.1	S 12	5 21	5 55	17 56	18 29	Nunki	75 56.3	S 26 16.4
	12	180 2.9	1 42.4	N 0 43.1	S 13	5 21	5 55	17 56	18 29	Peacock	53 16.5	S 56 41.0
	13	195 5.3	16 42.6	N 0 42.2	S 14	5 21	5 55	17 56	18 30	Pollux	243 25.9	N 27 59.1
	14	210 7.8	31 42.8	N 0 41.2	S 15	5 21	5 55	17 56	18 30	Procyon	244 58.1	N 5 11.3
	15	225 10.3	46 43.0	N 0 40.2	S 20	5 20	5 55	17 56	18 30	Rasalhague	96 5.1	N 12 33.4
	16	240 12.7	61 43.3	N 0 39.2	S 25	5 19	5 55	17 55	18 32	Regulus	207 42.1	N 11 53.4
	17	255 15.2	76 43.5	N 0 38.3	S 30	5 17	5 55	17 55	18 33	Rigel	281 10.5	S 8 11.0
	18	270 17.6	91 43.7	N 0 37.3	S 35	5 15	5 55	17 55	18 35	Rigel Kent	139 48.1	S 60 54.2
	19	285 20.1	106 43.9	N 0 36.3	S 40	5 13	5 56	17 55	18 38	Schedar	349 38.1	N 56 37.4
	20	300 22.6	121 44.1	N 0 35.4	S 45	5 9	5 56	17 55	18 42	Shaula	96 19.9	S 37 6.8
	21	315 25.0	136 44.4	N 0 34.4	S 50	5 5	5 56	17 55	18 46	Sirius	258 32.3	S 16 43.9
	22	330 27.5	151 44.6	N 0 33.4	S 55	4 59	5 56	17 55	18 53	Spica	158 29.9	S 11 14.4
23	345 30.0	166 44.8	N 0 32.4	S 60	4 50	5 56	17 55	19 1	Vega	80 37.9	N 38 48.3	
Día	Sol				Luna							
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día	Porcentaje de iluminación		Fase				
20	m s	m s		h m								
21	6 18	6 28	1.0	11 54	6.0	36						
	6 39	6 50	1.0	11 53	7.0	46						

Tabla G. Martes 22 de septiembre – miércoles 23 de septiembre de 2015.


Día	TU	Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		Aries	Sol							Nombre	SHA	Dec.
		GHA	GHA	Dec.								
		° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m		° / ' / "	° / ' / "
22	0	0 32.4	181 45.0	N 0 31.5	N 60	4 39	5 46	17 58	19 4	Achernar	335 25.3	S 57 9.3
	1	15 34.9	196 45.2	N 0 30.5	N 55	4 49	5 47	17 57	18 55	Acrux	173 8.1	S 63 11.1
	2	30 37.4	211 45.5	N 0 29.5	N 50	4 56	5 47	17 57	18 48	Adhara	255 11.4	S 28 59.5
	3	45 39.8	226 45.7	N 0 28.6	N 45	5 1	5 48	17 56	18 43	Aldebaran	290 47.5	N 16 32.3
	4	60 42.3	241 45.9	N 0 27.6	N 40	5 5	5 48	17 56	18 39	Alioth	166 20.0	N 55 52.7
	5	75 44.7	256 46.1	N 0 26.6	N 35	5 8	5 48	17 56	18 36	Alkaid	152 58.1	N 49 14.4
	6	90 47.2	271 46.4	N 0 25.6	N 30	5 11	5 49	17 56	18 34	Alnair	27 41.5	S 46 53.0
	7	105 49.7	286 46.6	N 0 24.7	N 25	5 13	5 49	17 56	18 32	Alnilam	275 44.8	S 1 11.6
	8	120 52.1	301 46.8	N 0 23.7	N 20	5 14	5 49	17 56	18 30	Alphard	217 54.8	S 8 43.6
	9	135 54.6	316 47.0	N 0 22.7	N 15	5 15	5 49	17 56	18 29	Alpheratz	357 41.5	N 29 10.8
	10	150 57.1	331 47.2	N 0 21.7	N 14	5 15	5 49	17 56	18 29	Altair	62 6.7	N 8 54.9
	11	165 59.5	346 47.5	N 0 20.8	N 13	5 15	5 49	17 56	18 29	Antares	112 24.5	S 26 27.8
	12	181 2.0	1 47.7	N 0 19.8	N 12	5 16	5 49	17 56	18 29	Arcturus	145 54.3	N 19 6.9
	13	196 4.5	16 47.9	N 0 18.8	N 11	5 16	5 49	17 56	18 29	Atria	107 25.0	S 69 3.3
	14	211 6.9	31 48.1	N 0 17.9	N 10	5 16	5 49	17 56	18 29	Avior	234 17.7	S 59 33.5
	15	226 9.4	46 48.3	N 0 16.9	N 9	5 16	5 49	17 56	18 29	Bellatrix	278 30.3	N 6 21.7
	16	241 11.9	61 48.6	N 0 15.9	N 8	5 16	5 49	17 56	18 29	Betelgeuse	270 59.6	N 7 24.5
	17	256 14.3	76 48.8	N 0 14.9	N 7	5 16	5 49	17 56	18 29	Canopus	263 55.5	S 52 42.1
	18	271 16.8	91 49.0	N 0 14.0	N 6	5 16	5 49	17 56	18 28	Capella	280 32.1	N 46 0.6
	19	286 19.2	106 49.2	N 0 13.0	N 5	5 16	5 49	17 56	18 28	Deneb	49 30.1	N 45 20.6
	20	301 21.7	121 49.4	N 0 12.0	N 4	5 16	5 49	17 56	18 28	Denebola	182 32.3	N 14 29.2
	21	316 24.2	136 49.7	N 0 11.0	N 3	5 16	5 49	17 56	18 28	Dubhe	193 50.5	N 61 39.9
	22	331 26.6	151 49.9	N 0 10.1	N 2	5 16	5 49	17 56	18 28	Elnath	278 10.6	N 28 37.0
23	346 29.1	166 50.1	N 0 9.1	N 1	5 16	5 49	17 56	18 28	Eltanin	90 45.4	N 51 29.7	
					0	5 17	5 49	17 56	18 28			
23	0	1 31.6	181 50.3	N 0 8.1	S 1	5 17	5 49	17 56	18 28	Enif	33 45.3	N 9 57.1
	1	16 34.0	196 50.5	N 0 7.2	S 2	5 16	5 49	17 56	18 28	Formalhaut	15 22.1	S 29 32.2
	2	31 36.5	211 50.8	N 0 6.2	S 3	5 16	5 49	17 56	18 28	Gacrux	171 59.6	S 57 11.9
	3	46 39.0	226 51.0	N 0 5.2	S 4	5 16	5 49	17 56	18 28	Hadar	148 46.1	S 60 26.9
	4	61 41.4	241 51.2	N 0 4.2	S 5	5 16	5 49	17 56	18 29	Hamal	327 58.8	N 23 32.2
	5	76 43.9	256 51.4	N 0 3.3	S 6	5 16	5 49	17 56	18 29	Kaus Aust	83 41.7	S 34 22.4
	6	91 46.4	271 51.6	N 0 2.3	S 7	5 16	5 49	17 56	18 29	Kochab	137 21.1	N 74 5.8
	7	106 48.8	286 51.9	N 0 1.3	S 8	5 16	5 49	17 56	18 29	Markab	13 36.5	N 15 17.6
	8	121 51.3	301 52.1	N 0 0.4	S 9	5 16	5 49	17 56	18 29	Menkent	148 5.9	S 36 26.6
	9	136 53.7	316 52.3	N 0 0.6	S 10	5 16	5 49	17 56	18 29	Miaplacidu	221 39.8	S 69 46.8
	10	151 56.2	331 52.5	N 0 1.6	S 11	5 16	5 49	17 56	18 29	Mirfak	308 37.8	N 49 54.7
	11	166 58.7	346 52.7	N 0 2.6	S 12	5 16	5 49	17 56	18 29	Nunki	75 56.3	S 26 16.4
	12	182 1.1	1 53.0	N 0 3.5	S 13	5 16	5 49	17 56	18 29	Peacock	53 16.6	S 56 41.0
	13	197 3.6	16 53.2	N 0 4.5	S 14	5 15	5 49	17 56	18 30	Pollux	243 25.9	N 27 59.1
	14	212 6.1	31 53.4	N 0 5.5	S 15	5 15	5 49	17 56	18 30	Procyon	244 58.1	N 5 11.3
	15	227 8.5	46 53.6	N 0 6.5	S 20	5 14	5 49	17 56	18 31	Rasalhague	96 5.1	N 12 33.4
	16	242 11.0	61 53.8	N 0 7.4	S 25	5 13	5 49	17 56	18 32	Regulus	207 42.1	N 11 53.4
	17	257 13.5	76 54.1	N 0 8.4	S 30	5 11	5 49	17 56	18 34	Rigel	281 10.5	S 8 11.0
	18	272 15.9	91 54.3	N 0 9.4	S 35	5 9	5 49	17 57	18 37	Rigel Kent	139 48.1	S 60 54.2
	19	287 18.4	106 54.5	N 0 10.4	S 40	5 6	5 48	17 57	18 40	Schedar	349 38.1	N 56 37.4
	20	302 20.8	121 54.7	N 0 11.3	S 45	5 2	5 48	17 58	18 44	Shaula	96 19.9	S 37 6.8
	21	317 23.3	136 54.9	N 0 12.3	S 50	4 56	5 48	17 58	18 49	Sirius	258 32.3	S 16 43.9
	22	332 25.8	151 55.2	N 0 13.3	S 55	4 50	5 47	17 59	18 57	Spica	158 29.9	S 11 14.4
23	347 28.2	166 55.4	N 0 14.2	S 60	4 40	5 46	18 0	19 6	Vega	80 37.9	N 38 48.3	
		Sol					Luna					
Día	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase			
	m s	m s		h m								
22	7 0	7 11	1.0	11 53		8.0	56					
23	7 21	7 32	1.0	11 52		9.1	67					

Tabla G. Jueves 24 de septiembre – viernes 25 de septiembre de 2015.


Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
24	h	° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m						
	0	2 30.7	181 55.6	N 0 15.2	N 60	4 44	5 50	17 52	18 58	Achernar	335 25.2	S 57 9.3			
	1	17 33.2	196 55.8	N 0 16.2	N 55	4 53	5 50	17 52	18 49	Acruz	173 8.1	S 63 11.1			
	2	32 35.6	211 56.0	N 0 17.2	N 50	4 59	5 50	17 52	18 43	Adhara	255 11.4	S 28 59.5			
	3	47 38.1	226 56.3	N 0 18.1	N 45	5 4	5 50	17 53	18 39	Aldebaran	290 47.5	N 16 32.3			
	4	62 40.6	241 56.5	N 0 19.1	N 40	5 7	5 50	17 53	18 36	Alioth	166 20.0	N 55 52.6			
	5	77 43.0	256 56.7	N 0 20.1	N 35	5 10	5 50	17 53	18 33	Alkaid	152 58.1	N 49 14.4			
	6	92 45.5	271 56.9	N 0 21.1	N 30	5 12	5 50	17 53	18 31	Alnair	27 41.5	S 46 53.0			
	7	107 48.0	286 57.1	N 0 22.0	N 25	5 13	5 50	17 53	18 30	Alnilam	275 44.8	S 1 11.6			
	8	122 50.4	301 57.4	N 0 23.0	N 20	5 15	5 49	17 54	18 29	Alphard	217 54.8	S 8 43.6			
	9	137 52.9	316 57.6	N 0 24.0	N 15	5 15	5 49	17 54	18 28	Alpheratz	357 41.5	N 29 10.8			
	10	152 55.3	331 57.8	N 0 24.9	N 14	5 15	5 49	17 54	18 28	Altair	62 6.7	N 8 54.9			
	11	167 57.8	346 58.0	N 0 25.9	N 13	5 16	5 49	17 54	18 28	Antares	112 24.5	S 26 27.8			
	12	183 0.3	1 58.2	N 0 26.9	N 12	5 16	5 49	17 54	18 28	Arcturus	145 54.3	N 19 6.9			
	13	198 2.7	16 58.4	N 0 27.9	N 11	5 16	5 49	17 54	18 28	Atria	107 25.0	S 69 3.3			
	14	213 5.2	31 58.7	N 0 28.8	N 10	5 16	5 49	17 54	18 28	Avior	234 17.7	S 59 33.5			
	15	228 7.7	46 58.9	N 0 29.8	N 9	5 16	5 49	17 54	18 27	Bellatrix	278 30.3	N 6 21.7			
	16	243 10.1	61 59.1	N 0 30.8	N 8	5 16	5 49	17 54	18 27	Betelgeuse	270 59.6	N 7 24.5			
	17	258 12.6	76 59.3	N 0 31.8	N 7	5 16	5 49	17 54	18 27	Canopus	263 55.5	S 52 42.1			
	18	273 15.1	91 59.5	N 0 32.7	N 6	5 16	5 49	17 55	18 27	Capella	280 32.1	N 46 0.6			
	19	288 17.5	106 59.8	N 0 33.7	N 5	5 16	5 49	17 55	18 27	Deneb	49 30.1	N 45 20.6			
	20	303 20.0	122 00.0	N 0 34.7	N 4	5 16	5 49	17 55	18 27	Denebola	182 32.3	N 14 29.2			
	21	318 22.5	137 0.2	N 0 35.7	N 3	5 16	5 49	17 55	18 27	Dubhe	193 50.5	N 61 39.9			
22	333 24.9	152 0.4	N 0 36.6	N 2	5 16	5 49	17 55	18 28	Elnath	278 10.6	N 28 37.0				
23	348 27.4	167 0.6	N 0 37.6	N 1	5 16	5 49	17 55	18 28	Eltanin	90 45.4	N 51 29.7				
25	0	3 29.8	182 0.8	N 0 38.6	S 1	5 16	5 48	17 55	18 28	Enif	33 45.3	N 9 57.1			
	1	18 32.3	197 1.1	N 0 39.5	S 2	5 16	5 48	17 55	18 28	Formalhaut	15 22.1	S 29 32.2			
	2	33 34.8	212 1.3	N 0 40.5	S 3	5 16	5 48	17 55	18 28	Gacrux	171 59.6	S 57 11.9			
	3	48 37.2	227 1.5	N 0 41.5	S 4	5 16	5 48	17 55	18 28	Hadar	148 46.1	S 60 26.9			
	4	63 39.7	242 1.7	N 0 42.5	S 5	5 15	5 48	17 55	18 28	Hamal	327 58.7	N 23 32.2			
	5	78 42.2	257 1.9	N 0 43.4	S 6	5 15	5 48	17 55	18 28	Kaus Aust	83 41.7	S 34 22.4			
	6	93 44.6	272 2.2	N 0 44.4	S 7	5 15	5 48	17 55	18 28	Kochab	137 21.1	N 74 5.8			
	7	108 47.1	287 2.4	N 0 45.4	S 8	5 15	5 48	17 55	18 29	Markab	13 36.5	N 15 17.6			
	8	123 49.6	302 2.6	N 0 46.4	S 9	5 15	5 48	17 56	18 29	Menkent	148 5.9	S 36 26.6			
	9	138 52.0	317 2.8	N 0 47.3	S 10	5 15	5 48	17 56	18 29	Miaplacidu	221 39.7	S 69 46.8			
	10	153 54.5	332 3.0	N 0 48.3	S 11	5 15	5 48	17 56	18 29	Mirfak	308 37.8	N 49 54.8			
	11	168 56.9	347 3.2	N 0 49.3	S 12	5 14	5 48	17 56	18 29	Nunki	75 56.3	S 26 16.4			
	12	183 59.4	2 3.5	N 0 50.2	S 13	5 14	5 48	17 56	18 29	Peacock	53 16.6	S 56 41.0			
	13	199 1.9	17 3.7	N 0 51.2	S 14	5 14	5 48	17 56	18 30	Pollux	243 25.8	N 27 59.1			
	14	214 4.3	32 3.9	N 0 52.2	S 15	5 14	5 48	17 56	18 30	Procyon	244 58.1	N 5 11.3			
	15	229 6.8	47 4.1	N 0 53.2	S 20	5 12	5 47	17 56	18 31	Rasalhague	96 5.1	N 12 33.4			
	16	244 9.3	62 4.3	N 0 54.1	S 25	5 11	5 47	17 57	18 33	Regulus	207 42.1	N 11 53.4			
	17	259 11.7	77 4.5	N 0 55.1	S 30	5 8	5 46	17 58	18 35	Rigel	281 10.5	S 8 11.0			
	18	274 14.2	92 4.8	N 0 56.1	S 35	5 6	5 46	17 58	18 38	Rigel Kent	139 48.1	S 60 54.2			
	19	289 16.7	107 5.0	N 0 57.1	S 40	5 2	5 45	17 59	18 42	Schedar	349 38.1	N 56 37.4			
	20	304 19.1	122 5.2	N 0 58.0	S 45	4 58	5 44	18 0	18 47	Shaula	96 19.9	S 37 6.8			
	21	319 21.6	137 5.4	N 0 59.0	S 50	4 52	5 43	18 1	18 53	Sirius	258 32.3	S 16 43.9			
	22	334 24.1	152 5.6	N 1 00.0	S 55	4 44	5 42	18 3	19 1	Spica	158 29.9	S 11 14.4			
23	349 26.5	167 5.8	S 1 1.0	S 60	4 34	5 40	18 5	19 11	Vega	80 37.9	N 38 48.3				
Sol													Luna		
Día	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase						
	m s	m s		h m											
24	7 42	7 53	1.0	11 52		10.2	77								
25	8 3	8 14	1.0	11 52		11.3	86								

Tabla G. Sábado 26 de septiembre – domingo 27 de septiembre de 2015.


Día	TU	Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		Aries	Sol							Nombre	SHA	Dec.
		GHA	GHA	Dec.								
		° /	° /	° /	°	h m	h m	h m	h m		° /	° /
26	h											
	0	4 29.0	182 6.1	S 1 1.9	N 60	4 49	5 55	17 46	18 51	Achernar	335 25.2	S 57 9.3
	1	19 31.4	197 6.3	S 1 2.9	N 55	4 57	5 54	17 47	18 44	Acrux	173 8.1	S 63 11.1
	2	34 33.9	212 6.5	S 1 3.9	N 50	5 2	5 53	17 48	18 39	Adhara	255 11.4	S 28 59.5
	3	49 36.4	227 6.7	S 1 4.8	N 45	5 6	5 53	17 49	18 35	Aldebaran	290 47.5	N 16 32.3
	4	64 38.8	242 6.9	S 1 5.8	N 40	5 9	5 52	17 49	18 32	Alioth	166 20.0	N 55 52.6
	5	79 41.3	257 7.1	S 1 6.8	N 35	5 11	5 51	17 50	18 30	Alkaid	152 58.2	N 49 14.4
	6	94 43.8	272 7.4	S 1 7.8	N 30	5 13	5 51	17 51	18 29	Alnair	27 45.5	S 46 53.0
	7	109 46.2	287 7.6	S 1 8.7	N 25	5 14	5 50	17 51	18 27	Alnilam	275 44.8	S 1 11.6
	8	124 48.7	302 7.8	S 1 9.7	N 20	5 15	5 50	17 52	18 27	Alphard	217 54.8	S 8 43.6
	9	139 51.2	317 8.0	S 1 10.7	N 15	5 15	5 49	17 52	18 26	Alpheratz	357 41.5	N 29 10.8
	10	154 53.6	332 8.2	S 1 11.7	N 14	5 16	5 49	17 53	18 26	Altair	62 6.7	N 8 54.9
	11	169 56.1	347 8.4	S 1 12.6	N 13	5 16	5 49	17 53	18 26	Antares	112 24.5	S 26 27.8
	12	184 58.6	2 8.6	S 1 13.6	N 12	5 16	5 49	17 53	18 26	Arcturus	145 54.3	N 19 6.8
	13	200 1.0	17 8.9	S 1 14.6	N 11	5 16	5 49	17 53	18 26	Atria	107 25.1	S 69 3.3
	14	215 3.5	32 9.1	S 1 15.6	N 10	5 16	5 49	17 53	18 26	Avior	234 17.6	S 59 33.5
	15	230 5.9	47 9.3	S 1 16.5	N 9	5 16	5 49	17 53	18 26	Bellatrix	278 30.3	N 6 21.7
	16	245 8.4	62 9.5	S 1 17.5	N 8	5 16	5 49	17 53	18 26	Betelgeuse	270 59.6	N 7 24.5
	17	260 10.9	77 9.7	S 1 18.5	N 7	5 16	5 49	17 53	18 26	Canopus	263 55.5	S 52 42.1
	18	275 13.3	92 9.9	S 1 19.4	N 6	5 16	5 48	17 53	18 26	Capella	280 32.1	N 46 0.6
	19	290 15.8	107 10.2	S 1 20.4	N 5	5 15	5 48	17 54	18 26	Deneb	49 30.1	N 45 20.6
	20	305 18.3	122 10.4	S 1 21.4	N 4	5 15	5 48	17 54	18 27	Denebola	182 32.3	N 14 29.2
	21	320 20.7	137 10.6	S 1 22.4	N 3	5 15	5 48	17 54	18 27	Dubhe	193 50.5	N 61 39.9
22	335 23.2	152 10.8	S 1 23.3	N 2	5 15	5 48	17 54	18 27	Elnath	278 10.6	N 28 37.0	
23	350 25.7	167 11.0	S 1 24.3	N 1	5 15	5 48	17 54	18 27	Eltanin	90 45.5	N 51 29.7	
					0	5 15	5 48	17 54	18 27			
					S 1	5 15	5 48	17 54	18 27	Enif	33 45.4	N 9 57.1
					S 2	5 15	5 48	17 54	18 27	Formalhaut	15 22.1	S 29 32.2
					S 3	5 15	5 48	17 55	18 27	Gacrux	171 59.7	S 57 11.9
					S 4	5 15	5 47	17 55	18 28	Hadar	148 46.1	S 60 26.9
					S 5	5 14	5 47	17 55	18 28	Hamal	327 58.7	N 23 32.2
					S 6	5 14	5 47	17 55	18 28	Kaus Aust	83 41.7	S 34 22.4
					S 7	5 14	5 47	17 55	18 28	Kochab	137 21.1	N 74 5.8
					S 8	5 14	5 47	17 55	18 28	Markab	13 36.5	N 15 17.6
					S 9	5 14	5 47	17 55	18 29	Menkent	148 5.9	S 36 26.6
					S 10	5 13	5 47	17 55	18 29	Miaplacidu	221 39.7	S 69 46.8
					S 11	5 13	5 47	17 56	18 29	Mirfak	308 37.8	N 49 54.8
					S 12	5 13	5 47	17 56	18 29	Nunki	75 56.4	S 26 16.4
27	12	185 57.7	2 13.8	S 1 37.0	S 13	5 13	5 46	17 56	18 30	Peacock	53 16.6	S 56 41.0
	13	201 0.2	17 14.0	S 1 37.9	S 14	5 12	5 46	17 56	18 30	Pollux	243 25.8	N 27 59.1
	14	216 2.6	32 14.2	S 1 38.9	S 15	5 12	5 46	17 56	18 30	Procyon	244 58.1	N 5 11.3
	15	231 5.1	47 14.4	S 1 39.9	S 20	5 11	5 45	17 57	18 32	Rasalhague	96 5.1	N 12 33.4
	16	246 7.5	62 14.6	S 1 40.8	S 25	5 9	5 45	17 58	18 34	Regulus	207 42.1	N 11 53.4
	17	261 10.0	77 14.9	S 1 41.8	S 30	5 6	5 44	17 59	18 37	Rigel	281 10.5	S 8 11.0
	18	276 12.5	92 15.1	S 1 42.8	S 35	5 3	5 43	18 0	18 40	Rigel Kent	139 48.1	S 60 54.2
	19	291 14.9	107 15.3	S 1 43.8	S 40	4 59	5 42	18 1	18 44	Schedar	349 38.1	N 56 37.4
	20	306 17.4	122 15.5	S 1 44.7	S 45	4 54	5 40	18 2	18 49	Shaula	96 19.9	S 37 6.8
	21	321 19.9	137 15.7	S 1 45.7	S 50	4 47	5 39	18 4	18 56	Sirius	258 32.3	S 16 43.9
	22	336 22.3	152 15.9	S 1 46.7	S 55	4 39	5 37	18 6	19 5	Spica	158 29.9	S 11 14.4
23	351 24.8	167 16.1	S 1 47.7	S 60	4 27	5 34	18 9	19 17	Vega	80 37.9	N 38 48.3	
Día		Sol			Luna							
		Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase		
		m s	m s		h m							
26		8 24	8 35	1.0	11 51		12.4	93				
27		8 45	8 55	1.0	11 51		13.5	98				

Tabla G. Lunes 28 de septiembre – martes 29 de septiembre de 2015.


Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
		° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m	h m	h m	° / ' / "	° / ' / "	° / ' / "	
28	0	6 27.3	182 16.3	S 1 48.6	N 60	4 54	6 0	17 40	18 45	Achernar	335 25.2	S 57 9.3			
	1	21 29.7	197 16.6	S 1 49.6	N 55	5 0	5 58	17 42	18 39	Acruz	173 8.1	S 63 11.1			
	2	36 32.2	212 16.8	S 1 50.6	N 50	5 5	5 56	17 44	18 34	Adhara	255 11.4	S 28 59.5			
	3	51 34.7	227 17.0	S 1 51.5	N 45	5 9	5 55	17 45	18 31	Aldebaran	290 47.5	N 16 32.3			
	4	66 37.1	242 17.2	S 1 52.5	N 40	5 11	5 54	17 46	18 29	Alioth	166 20.1	N 55 52.6			
	5	81 39.6	257 17.4	S 1 53.5	N 35	5 13	5 53	17 47	18 27	Alkaid	152 58.2	N 49 14.3			
	6	96 42.0	272 17.6	S 1 54.5	N 30	5 14	5 52	17 48	18 26	Alnair	27 41.5	S 46 53.0			
	7	111 44.5	287 17.8	S 1 55.4	N 25	5 15	5 51	17 49	18 25	Alnilam	275 44.7	S 1 11.6			
	8	126 47.0	302 18.0	S 1 56.4	N 20	5 15	5 50	17 50	18 25	Alphard	217 54.8	S 8 43.6			
	9	141 49.4	317 18.3	S 1 57.4	N 15	5 16	5 50	17 51	18 25	Alpheratz	357 41.5	N 29 10.8			
	10	156 51.9	332 18.5	S 1 58.4	N 14	5 16	5 49	17 51	18 25	Altair	62 6.8	N 8 54.9			
	11	171 54.4	347 18.7	S 1 59.3	N 13	5 16	5 49	17 51	18 25	Antares	112 24.5	S 26 27.8			
	12	186 56.8	2 18.9	S 2 0.3	N 12	5 16	5 49	17 51	18 25	Arcturus	145 54.3	N 19 6.8			
	13	201 59.3	17 19.1	S 2 1.3	N 11	5 16	5 49	17 52	18 25	Atria	107 25.1	S 69 3.3			
	14	217 1.8	32 19.3	S 2 2.2	N 10	5 15	5 49	17 52	18 25	Avior	234 17.6	S 59 33.4			
	15	232 4.2	47 19.5	S 2 3.2	N 9	5 15	5 49	17 52	18 25	Bellatrix	278 30.3	N 6 21.7			
	16	247 6.7	62 19.7	S 2 4.2	N 8	5 15	5 48	17 52	18 25	Betelgeuse	270 59.6	N 7 24.5			
	17	262 9.2	77 19.9	S 2 5.2	N 7	5 15	5 48	17 52	18 25	Canopus	263 55.5	S 52 42.1			
	18	277 11.6	92 20.2	S 2 6.1	N 6	5 15	5 48	17 52	18 25	Capella	280 32.1	N 46 0.6			
	19	292 14.1	107 20.4	S 2 7.1	N 5	5 15	5 48	17 53	18 26	Deneb	49 30.1	N 45 20.6			
	20	307 16.5	122 20.6	S 2 8.1	N 4	5 15	5 48	17 53	18 26	Denebola	182 32.3	N 14 29.2			
	21	322 19.0	137 20.8	S 2 9.0	N 3	5 15	5 48	17 53	18 26	Dubhe	193 50.5	N 61 39.9			
	22	337 21.5	152 21.0	S 2 10.0	N 2	5 15	5 47	17 53	18 26	Elnath	278 10.6	N 28 37.0			
23	352 23.9	167 21.2	S 2 11.0	N 1	5 15	5 47	17 53	18 26	Eltanin	90 45.5	N 51 29.7				
29	0	7 26.4	182 21.4	S 2 12.0	S 1	5 14	5 47	17 54	18 26	Enif	33 45.4	N 9 57.1			
	1	22 28.9	197 21.6	S 2 12.9	S 2	5 14	5 47	17 54	18 27	Formalhaut	15 22.1	S 29 32.2			
	2	37 31.3	212 21.8	S 2 13.9	S 3	5 14	5 47	17 54	18 27	Gacrux	171 59.7	S 57 11.9			
	3	52 33.8	227 22.0	S 2 14.9	S 4	5 14	5 47	17 54	18 27	Hadar	148 46.1	S 60 26.9			
	4	67 36.3	242 22.3	S 2 15.8	S 5	5 13	5 46	17 54	18 27	Hamal	327 58.7	N 23 32.2			
	5	82 38.7	257 22.5	S 2 16.8	S 6	5 13	5 46	17 55	18 28	Kaus Aust	83 41.8	S 34 22.4			
	6	97 41.2	272 22.7	S 2 17.8	S 7	5 13	5 46	17 55	18 28	Kochab	137 21.1	N 74 5.8			
	7	112 43.6	287 22.9	S 2 18.8	S 8	5 13	5 46	17 55	18 28	Markab	13 36.5	N 15 17.6			
	8	127 46.1	302 23.1	S 2 19.7	S 9	5 12	5 46	17 55	18 28	Menkent	148 5.9	S 36 26.6			
	9	142 48.6	317 23.3	S 2 20.7	S 10	5 12	5 46	17 55	18 29	Miaplacidu	221 39.7	S 69 46.8			
	10	157 51.0	332 23.5	S 2 21.7	S 11	5 12	5 45	17 56	18 29	Mirfak	308 37.7	N 49 54.8			
	11	172 53.5	347 23.7	S 2 22.7	S 12	5 12	5 45	17 56	18 29	Nunki	75 56.4	S 26 16.4			
	12	187 56.0	2 23.9	S 2 23.6	S 13	5 11	5 45	17 56	18 30	Peacock	53 16.6	S 56 41.0			
	13	202 58.4	17 24.1	S 2 24.6	S 14	5 11	5 45	17 56	18 30	Pollux	243 25.8	N 27 59.1			
	14	218 0.9	32 24.3	S 2 25.6	S 15	5 11	5 45	17 56	18 30	Procyon	244 58.0	N 5 11.3			
	15	233 3.4	47 24.5	S 2 26.5	S 20	5 9	5 44	17 57	18 32	Rasalhague	96 5.1	N 12 33.4			
	16	248 5.8	62 24.8	S 2 27.5	S 25	5 6	5 43	17 59	18 35	Regulus	207 42.1	N 11 53.4			
	17	263 8.3	77 25.0	S 2 28.5	S 30	5 3	5 41	18 0	18 38	Rigel	281 10.5	S 8 11.0			
	18	278 10.8	92 25.2	S 2 29.4	S 35	5 0	5 40	18 1	18 41	Rigel Kent	139 48.1	S 60 54.2			
	19	293 13.2	107 25.4	S 2 30.4	S 40	4 55	5 39	18 3	18 46	Schedar	349 38.1	N 56 37.4			
	20	308 15.7	122 25.6	S 2 31.4	S 45	4 50	5 37	18 5	18 52	Shaula	96 19.9	S 37 6.8			
	21	323 18.1	137 25.8	S 2 32.4	S 50	4 43	5 34	18 7	18 59	Sirius	258 32.2	S 16 43.9			
	22	338 20.6	152 26.0	S 2 33.3	S 55	4 34	5 32	18 10	19 9	Spica	158 29.9	S 11 14.4			
23	353 23.1	167 26.2	S 2 34.3	S 60	4 21	5 28	18 14	19 22	Vega	80 37.9	N 38 48.3				
		Sol			Luna										
Día	Ecuación del tiempo (00 ^h)		Corr. <i>d</i>	Paso por el meridiano	Edad día	Porcentaje de iluminación	Fase								
	m s	m s		h m											
28	9 5	9 16	1.0	11 51	14.6	100									
29	9 26	9 36	1.0	11 50	15.8	98									

Tabla G. Miércoles 30 de septiembre – jueves 1 de octubre de 2015.

Día	TU	Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		Aries	Sol							Nombre	SHA	Dec.
		GHA	GHA	Dec.								
		° /	° /	° /	°	h m	h m	h m	h m		° /	° /
30	0	8 25.5	182 26.4	S 2 35.3	N 60	4 59	6 5	17 34	18 39	Achernar	335 25.2	S 57 9.3
	1	23 28.0	197 26.6	S 2 36.2	N 55	5 4	6 2	17 37	18 34	Acrux	173 8.1	S 63 11.1
	2	38 30.5	212 26.8	S 2 37.2	N 50	5 8	5 59	17 39	18 30	Adhara	255 11.4	S 28 59.5
	3	53 32.9	227 27.0	S 2 38.2	N 45	5 11	5 57	17 41	18 27	Aldebaran	290 47.5	N 16 32.3
	4	68 35.4	242 27.2	S 2 39.2	N 40	5 13	5 56	17 43	18 26	Alioth	166 20.1	N 55 52.6
	5	83 37.9	257 27.5	S 2 40.1	N 35	5 14	5 54	17 44	18 24	Alkaid	152 58.2	N 49 14.3
	6	98 40.3	272 27.7	S 2 41.1	N 30	5 15	5 53	17 46	18 24	Alnair	27 41.5	S 46 53.0
	7	113 42.8	287 27.9	S 2 42.1	N 25	5 16	5 52	17 47	18 23	Alnilam	275 44.7	S 1 11.6
	8	128 45.3	302 28.1	S 2 43.0	N 20	5 16	5 51	17 48	18 23	Alphard	217 54.8	S 8 43.6
	9	143 47.7	317 28.3	S 2 44.0	N 15	5 16	5 50	17 49	18 23	Alpheratz	357 41.5	N 29 10.8
	10	158 50.2	332 28.5	S 2 45.0	N 14	5 16	5 49	17 50	18 23	Altair	62 6.8	N 8 54.9
	11	173 52.6	347 28.7	S 2 46.0	N 13	5 16	5 49	17 50	18 24	Antares	112 24.5	S 26 27.8
	12	188 55.1	2 28.9	S 2 46.9	N 12	5 16	5 49	17 50	18 24	Arcturus	145 54.3	N 19 6.8
	13	203 57.6	17 29.1	S 2 47.9	N 11	5 15	5 49	17 50	18 24	Atria	107 25.1	S 69 3.3
	14	219 0.0	32 29.3	S 2 48.9	N 10	5 15	5 49	17 51	18 24	Avior	234 17.6	S 59 33.4
	15	234 2.5	47 29.5	S 2 49.8	N 9	5 15	5 48	17 51	18 24	Bellatrix	278 30.3	N 6 21.7
	16	249 5.0	62 29.7	S 2 50.8	N 8	5 15	5 48	17 51	18 24	Betelgeuse	270 59.6	N 7 24.5
	17	264 7.4	77 29.9	S 2 51.8	N 7	5 15	5 48	17 51	18 24	Canopus	263 55.4	S 52 42.1
	18	279 9.9	92 30.1	S 2 52.7	N 6	5 15	5 48	17 52	18 24	Capella	280 32.0	N 46 0.6
	19	294 12.4	107 30.3	S 2 53.7	N 5	5 15	5 48	17 52	18 25	Deneb	49 30.1	N 45 20.6
	20	309 14.8	122 30.5	S 2 54.7	N 4	5 15	5 47	17 52	18 25	Denebola	182 32.3	N 14 29.2
	21	324 17.3	137 30.7	S 2 55.7	N 3	5 14	5 47	17 52	18 25	Dubhe	193 50.5	N 61 39.9
	22	339 19.7	152 31.0	S 2 56.6	N 2	5 14	5 47	17 52	18 25	Elnath	278 10.6	N 28 37.0
23	354 22.2	167 31.2	S 2 57.6	N 1	5 14	5 47	17 53	18 25	Eltanin	90 45.5	N 51 29.7	
					0	5 14	5 47	17 53	18 26			
1	0	9 24.7	182 31.4	S 2 58.6	S 1	5 14	5 46	17 53	18 26	Enif	33 45.4	N 9 57.1
	1	24 27.1	197 31.6	S 2 59.5	S 2	5 13	5 46	17 53	18 26	Formalhaut	15 22.1	S 29 32.2
	2	39 29.6	212 31.8	S 3 0.5	S 3	5 13	5 46	17 54	18 26	Gacrux	171 59.6	S 57 11.9
	3	54 32.1	227 32.0	S 3 1.5	S 4	5 13	5 46	17 54	18 27	Hadar	148 46.1	S 60 26.8
	4	69 34.5	242 32.2	S 3 2.4	S 5	5 13	5 45	17 54	18 27	Hamal	327 58.7	N 23 32.2
	5	84 37.0	257 32.4	S 3 3.4	S 6	5 12	5 45	17 54	18 27	Kaus Aust	83 41.8	S 34 22.4
	6	99 39.5	272 32.6	S 3 4.4	S 7	5 12	5 45	17 55	18 28	Kochab	137 21.2	N 74 5.8
	7	114 41.9	287 32.8	S 3 5.4	S 8	5 12	5 45	17 55	18 28	Markab	13 36.5	N 15 17.6
	8	129 44.4	302 33.0	S 3 6.3	S 9	5 11	5 45	17 55	18 28	Menkent	148 5.9	S 36 26.6
	9	144 46.9	317 33.2	S 3 7.3	S 10	5 11	5 44	17 55	18 29	Miaplacidu	221 39.7	S 69 46.8
	10	159 49.3	332 33.4	S 3 8.3	S 11	5 11	5 44	17 55	18 29	Mirfak	308 37.7	N 49 54.8
	11	174 51.8	347 33.6	S 3 9.2	S 12	5 10	5 44	17 56	18 29	Nunki	75 56.4	S 26 16.4
	12	189 54.2	2 33.8	S 3 10.2	S 13	5 10	5 44	17 56	18 30	Peacock	53 16.6	S 56 41.0
	13	204 56.7	17 34.0	S 3 11.2	S 14	5 10	5 43	17 56	18 30	Pollux	243 25.8	N 27 59.1
	14	219 59.2	32 34.2	S 3 12.1	S 15	5 9	5 43	17 56	18 31	Procyon	244 58.0	N 5 11.3
	15	235 1.6	47 34.4	S 3 13.1	S 20	5 7	5 42	17 58	18 33	Rasalhague	96 5.1	N 12 33.4
	16	250 4.1	62 34.6	S 3 14.1	S 25	5 4	5 40	17 59	18 36	Regulus	207 42.1	N 11 53.4
	17	265 6.6	77 34.8	S 3 15.0	S 30	5 1	5 39	18 1	18 39	Rigel	281 10.5	S 8 11.0
	18	280 9.0	92 35.0	S 3 16.0	S 35	4 57	5 37	18 3	18 43	Rigel Kent	139 48.1	S 60 54.1
	19	295 11.5	107 35.2	S 3 17.0	S 40	4 52	5 35	18 5	18 48	Schedar	349 38.1	N 56 37.5
	20	310 14.0	122 35.4	S 3 17.9	S 45	4 46	5 33	18 7	18 54	Shaula	96 19.9	S 37 6.8
	21	325 16.4	137 35.6	S 3 18.9	S 50	4 38	5 30	18 10	19 2	Sirius	258 32.2	S 16 43.9
	22	340 18.9	152 35.8	S 3 19.9	S 55	4 28	5 27	18 14	19 13	Spica	158 29.9	S 11 14.4
23	355 21.4	167 36.0	S 3 20.9	S 60	4 14	5 22	18 19	19 27	Vega	80 38.0	N 38 48.3	
Día		Sol			Luna							
		Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase		
		m s	m s		h m							
30		9 46	9 56	1.0	11 50		16.9	94				
1		10 5	10 15	1.0	11 50		18.0	88				

Tabla G. Viernes 2 de octubre – sábado 3 de octubre de 2015.

Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
2	h	° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m						
	0	10 23.8	182 36.2	S 3 21.8	N 60	5 4	6 9	17 28	18 33	Achernar	335 25.2	S 57 9.3			
	1	25 26.3	197 36.4	S 3 22.8	N 55	5 8	6 5	17 32	18 29	Acrux	173 8.1	S 63 11.1			
	2	40 28.7	212 36.6	S 3 23.8	N 50	5 11	6 2	17 35	18 26	Adhara	255 11.3	S 28 59.5			
	3	55 31.2	227 36.8	S 3 24.7	N 45	5 14	6 0	17 37	18 24	Aldebaran	290 47.4	N 16 32.3			
	4	70 33.7	242 37.0	S 3 25.7	N 40	5 15	5 58	17 40	18 22	Alioth	166 20.1	N 55 52.6			
	5	85 36.1	257 37.2	S 3 26.7	N 35	5 16	5 56	17 42	18 22	Alkaid	152 58.2	N 49 14.3			
	6	100 38.6	272 37.4	S 3 27.6	N 30	5 16	5 54	17 43	18 21	Alnair	27 41.6	S 46 53.0			
	7	115 41.1	287 37.6	S 3 28.6	N 25	5 17	5 53	17 45	18 21	Alnilam	275 44.7	S 1 11.6			
	8	130 43.5	302 37.8	S 3 29.6	N 20	5 16	5 51	17 47	18 21	Alphard	217 54.8	S 8 43.6			
	9	145 46.0	317 38.0	S 3 30.5	N 15	5 16	5 50	17 48	18 22	Alpheratz	357 41.5	N 29 10.8			
	10	160 48.5	332 38.2	S 3 31.5	N 14	5 16	5 50	17 48	18 22	Altair	62 6.8	N 8 54.9			
	11	175 50.9	347 38.4	S 3 32.5	N 13	5 16	5 49	17 49	18 22	Antares	112 24.5	S 26 27.8			
	12	190 53.4	2 38.6	S 3 33.4	N 12	5 16	5 49	17 49	18 22	Arcturus	145 54.3	N 19 6.8			
	13	205 55.8	17 38.8	S 3 34.4	N 11	5 15	5 49	17 49	18 23	Atria	107 25.1	S 69 3.3			
	14	220 58.3	32 39.0	S 3 35.4	N 10	5 15	5 49	17 49	18 23	Avior	234 17.6	S 59 33.4			
	15	236 0.8	47 39.2	S 3 36.3	N 9	5 15	5 48	17 50	18 23	Bellatrix	278 30.2	N 6 21.7			
	16	251 3.2	62 39.4	S 3 37.3	N 8	5 15	5 48	17 50	18 23	Betelgeuse	270 59.6	N 7 24.5			
	17	266 5.7	77 39.6	S 3 38.3	N 7	5 15	5 48	17 50	18 23	Canopus	263 55.4	S 52 42.1			
	18	281 8.2	92 39.8	S 3 39.2	N 6	5 14	5 47	17 51	18 24	Capella	280 32.0	N 46 0.6			
	19	296 10.6	107 40.0	S 3 40.2	N 5	5 14	5 47	17 51	18 24	Deneb	49 30.1	N 45 20.6			
	20	311 13.1	122 40.2	S 3 41.2	N 4	5 14	5 47	17 51	18 24	Denebola	182 32.3	N 14 29.2			
	21	326 15.6	137 40.4	S 3 42.1	N 3	5 14	5 47	17 51	18 24	Dubhe	193 50.5	N 61 39.9			
22	341 18.0	152 40.6	S 3 43.1	N 2	5 14	5 46	17 52	18 25	Elnath	278 10.6	N 28 37.0				
23	356 20.5	167 40.8	S 3 44.1	N 1	5 13	5 46	17 52	18 25	Eltanin	90 45.5	N 51 29.7				
3	0	11 23.0	182 41.0	S 3 45.0	S 1	5 13	5 46	17 53	18 25	Enif	33 45.4	N 9 57.1			
	1	26 25.4	197 41.2	S 3 46.0	S 2	5 13	5 45	17 53	18 26	Formalhaut	15 22.1	S 29 32.2			
	2	41 27.9	212 41.4	S 3 47.0	S 3	5 12	5 45	17 53	18 26	Gacrux	171 59.6	S 57 11.9			
	3	56 30.3	227 41.6	S 3 47.9	S 4	5 12	5 45	17 53	18 26	Hadar	148 46.1	S 60 26.8			
	4	71 32.8	242 41.8	S 3 48.9	S 5	5 12	5 45	17 54	18 27	Hamal	327 58.7	N 23 32.2			
	5	86 35.3	257 42.0	S 3 49.9	S 6	5 11	5 44	17 54	18 27	Kaus Aust	83 41.8	S 34 22.4			
	6	101 37.7	272 42.2	S 3 50.8	S 7	5 11	5 44	17 54	18 27	Kochab	137 21.2	N 74 5.8			
	7	116 40.2	287 42.4	S 3 51.8	S 8	5 11	5 44	17 55	18 28	Markab	13 36.5	N 15 17.6			
	8	131 42.7	302 42.6	S 3 52.8	S 9	5 10	5 43	17 55	18 28	Menkent	148 5.9	S 36 26.6			
	9	146 45.1	317 42.8	S 3 53.7	S 10	5 10	5 43	17 55	18 29	Miaplacidu	221 39.6	S 69 46.8			
	10	161 47.6	332 43.0	S 3 54.7	S 11	5 9	5 43	17 55	18 29	Mirfak	308 37.7	N 49 54.8			
	11	176 50.1	347 43.2	S 3 55.7	S 12	5 9	5 43	17 56	18 29	Nunki	75 56.4	S 26 16.4			
	12	191 52.5	2 43.4	S 3 56.6	S 13	5 9	5 42	17 56	18 30	Peacock	53 16.6	S 56 41.0			
	13	206 55.0	17 43.6	S 3 57.6	S 14	5 8	5 42	17 56	18 30	Pollux	243 25.8	N 27 59.1			
	14	221 57.5	32 43.8	S 3 58.6	S 15	5 8	5 42	17 57	18 31	Procyon	244 58.0	N 5 11.3			
	15	236 59.9	47 44.0	S 3 59.5	S 20	5 5	5 40	17 58	18 33	Rasalhague	96 5.1	N 12 33.4			
	16	252 2.4	62 44.2	S 4 0.5	S 25	5 2	5 38	18 0	18 37	Regulus	207 42.1	N 11 53.4			
	17	267 4.8	77 44.4	S 4 1.5	S 30	4 58	5 36	18 2	18 40	Rigel	281 10.5	S 8 11.0			
	18	282 7.3	92 44.6	S 4 2.4	S 35	4 54	5 34	18 4	18 45	Rigel Kent	139 48.1	S 60 54.1			
	19	297 9.8	107 44.8	S 4 3.4	S 40	4 49	5 32	18 7	18 50	Schedar	349 38.1	N 56 37.5			
	20	312 12.2	122 45.0	S 4 4.4	S 45	4 42	5 29	18 10	18 57	Shaula	96 19.9	S 37 6.8			
	21	327 14.7	137 45.1	S 4 5.3	S 50	4 34	5 26	18 13	19 6	Sirius	258 32.2	S 16 43.9			
	22	342 17.2	152 45.3	S 4 6.3	S 55	4 23	5 21	18 18	19 17	Spica	158 29.9	S 11 14.4			
23	357 19.6	167 45.5	S 4 7.3	S 60	4 8	5 16	18 24	19 33	Vega	80 38.0	N 38 48.3				
Día	Sol				Luna										
	Ecuación del tiempo (00 ^h)		Corr. <i>d</i>	Paso por el meridiano	Edad día	Porcentaje de iluminación		Fase							
	m s	m s		h m											
2	10 25	10 35	1.0	11 49	19.1	79									
3	10 44	10 54	1.0	11 49	20.3	69									

Tabla G. Domingo 4 de octubre – lunes 5 de octubre de 2015.


Día	TU	Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.						Nombre	SHA	Dec.
4	h	° /	° /	° /	°	h m	h m	h m	h m		° /	° /
	0	12 22.1	182 45.7	S 4 8.2	N 60	5 8	6 14	17 22	18 27	Achernar	335 25.2	S 57 9.4
	1	27 24.6	197 45.9	S 4 9.2	N 55	5 12	6 9	17 27	18 24	Acrux	173 8.1	S 63 11.1
	2	42 27.0	212 46.1	S 4 10.2	N 50	5 14	6 6	17 31	18 21	Adhara	255 11.3	S 28 59.5
	3	57 29.5	227 46.3	S 4 11.1	N 45	5 16	6 2	17 34	18 20	Aldebaran	290 47.4	N 16 32.3
	4	72 32.0	242 46.5	S 4 12.1	N 40	5 17	6 0	17 36	18 19	Alioth	166 20.1	N 55 52.6
	5	87 34.4	257 46.7	S 4 13.1	N 35	5 17	5 57	17 39	18 19	Alkaid	152 58.2	N 49 14.3
	6	102 36.9	272 46.9	S 4 14.0	N 30	5 18	5 55	17 41	18 19	Alnair	27 41.6	S 46 53.0
	7	117 39.3	287 47.1	S 4 15.0	N 25	5 17	5 54	17 43	18 19	Alnilam	275 44.7	S 1 11.6
	8	132 41.8	302 47.3	S 4 15.9	N 20	5 17	5 52	17 45	18 20	Alphard	217 54.8	S 8 43.6
	9	147 44.3	317 47.5	S 4 16.9	N 15	5 16	5 50	17 47	18 21	Alpheratz	357 41.5	N 29 10.8
	10	162 46.7	332 47.7	S 4 17.9	N 14	5 16	5 50	17 47	18 21	Altair	62 6.8	N 8 54.9
	11	177 49.2	347 47.9	S 4 18.8	N 13	5 16	5 49	17 47	18 21	Antares	112 24.5	S 26 27.8
	12	192 51.7	2 48.1	S 4 19.8	N 12	5 16	5 49	17 48	18 21	Arcturus	145 54.3	N 19 6.8
	13	207 54.1	17 48.2	S 4 20.8	N 11	5 15	5 49	17 48	18 21	Atria	107 25.2	S 69 3.3
	14	222 56.6	32 48.4	S 4 21.7	N 10	5 15	5 48	17 48	18 22	Avior	234 17.5	S 59 33.4
	15	237 59.1	47 48.6	S 4 22.7	N 9	5 15	5 48	17 49	18 22	Bellatrix	278 30.2	N 6 21.7
	16	253 1.5	62 48.8	S 4 23.7	N 8	5 15	5 48	17 49	18 22	Betelgeuse	270 59.6	N 7 24.5
	17	268 4.0	77 49.0	S 4 24.6	N 7	5 14	5 48	17 49	18 22	Canopus	263 55.4	S 52 42.1
	18	283 6.4	92 49.2	S 4 25.6	N 6	5 14	5 47	17 50	18 23	Capella	280 32.0	N 46 0.6
	19	298 8.9	107 49.4	S 4 26.5	N 5	5 14	5 47	17 50	18 23	Deneb	49 30.2	N 45 20.6
	20	313 11.4	122 49.6	S 4 27.5	N 4	5 14	5 47	17 50	18 23	Denebola	182 32.3	N 14 29.2
	21	328 13.8	137 49.8	S 4 28.5	N 3	5 13	5 46	17 51	18 24	Dubhe	193 50.5	N 61 39.9
22	343 16.3	152 50.0	S 4 29.4	N 2	5 13	5 46	17 51	18 24	Elnath	278 10.5	N 28 37.0	
23	358 18.8	167 50.2	S 4 30.4	N 1	5 13	5 46	17 51	18 24	Eltanin	90 45.5	N 51 29.7	
5	0	13 21.2	182 50.4	S 4 31.4	S 1	5 12	5 45	17 52	18 24	Enif	33 45.4	N 9 57.1
	1	28 23.7	197 50.5	S 4 32.3	S 2	5 12	5 45	17 52	18 25	Formalhaut	15 22.1	S 29 32.2
	2	43 26.2	212 50.7	S 4 33.3	S 3	5 11	5 44	17 53	18 26	Gacrux	171 59.6	S 57 11.9
	3	58 28.6	227 50.9	S 4 34.3	S 4	5 11	5 44	17 53	18 26	Hadar	148 46.1	S 60 26.8
	4	73 31.1	242 51.1	S 4 35.2	S 5	5 11	5 44	17 53	18 26	Hamal	327 58.7	N 23 32.2
	5	88 33.6	257 51.3	S 4 36.2	S 6	5 10	5 43	17 54	18 27	Kaus Aust	83 41.8	S 34 22.4
	6	103 36.0	272 51.5	S 4 37.1	S 7	5 10	5 43	17 54	18 27	Kochab	137 21.2	N 74 5.7
	7	118 38.5	287 51.7	S 4 38.1	S 8	5 9	5 43	17 54	18 28	Markab	13 36.5	N 15 17.6
	8	133 40.9	302 51.9	S 4 39.1	S 9	5 9	5 42	17 55	18 28	Menkent	148 5.9	S 36 26.5
	9	148 43.4	317 52.1	S 4 40.0	S 10	5 9	5 42	17 55	18 29	Miaplacidu	221 39.6	S 69 46.8
	10	163 45.9	332 52.3	S 4 41.0	S 11	5 8	5 42	17 55	18 29	Mirfak	308 37.7	N 49 54.8
	11	178 48.3	347 52.4	S 4 41.9	S 12	5 8	5 41	17 56	18 29	Nunki	75 56.4	S 26 16.4
	12	193 50.8	2 52.6	S 4 42.9	S 13	5 7	5 41	17 56	18 30	Peacock	53 16.6	S 56 41.0
	13	208 53.3	17 52.8	S 4 43.9	S 14	5 7	5 41	17 57	18 30	Pollux	243 25.8	N 27 59.1
	14	223 55.7	32 53.0	S 4 44.8	S 15	5 6	5 40	17 57	18 31	Procyon	244 58.0	N 5 11.3
	15	238 58.2	47 53.2	S 4 45.8	S 20	5 3	5 38	17 59	18 34	Rasalhague	96 5.1	N 12 33.4
	16	254 0.7	62 53.4	S 4 46.8	S 25	5 0	5 36	18 1	18 37	Regulus	207 42.1	N 11 53.4
	17	269 3.1	77 53.6	S 4 47.7	S 30	4 56	5 34	18 3	18 42	Rigel	281 10.4	S 8 11.0
	18	284 5.6	92 53.8	S 4 48.7	S 35	4 51	5 32	18 6	18 46	Rigel Kent	139 48.1	S 60 54.1
	19	299 8.1	107 53.9	S 4 49.6	S 40	4 45	5 29	18 9	18 52	Schedar	349 38.1	N 56 37.5
	20	314 10.5	122 54.1	S 4 50.6	S 45	4 38	5 25	18 12	19 0	Shaula	96 19.9	S 37 6.7
	21	329 13.0	137 54.3	S 4 51.6	S 50	4 29	5 21	18 17	19 9	Sirius	258 32.2	S 16 43.9
	22	344 15.4	152 54.5	S 4 52.5	S 55	4 17	5 16	18 22	19 21	Spica	158 29.9	S 11 14.4
23	359 17.9	167 54.7	S 4 53.5	S 60	4 1	5 10	18 29	19 38	Vega	80 38.0	N 38 48.3	
Día	Sol				Luna							
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día	Porcentaje de iluminación		Fase				
4	m s	m s		h m								
5	11 3	11 12	1.0	11 49	21.3	59						
	11 21	11 31	1.0	11 48	22.4	48						

Tabla G. Martes 6 de octubre – miércoles 7 de octubre de 2015.

Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
6	h	° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m						
	0	14 20.4	182 54.9	S 4 54.4	N 60	5 13	6 19	17 16	18 21	Achernar	335 25.2	S 57 9.4			
	1	29 22.8	197 55.1	S 4 55.4	N 55	5 16	6 13	17 22	18 19	Acruz	173 8.1	S 63 11.1			
	2	44 25.3	212 55.3	S 4 56.4	N 50	5 18	6 9	17 26	18 17	Adhara	255 11.3	S 28 59.5			
	3	59 27.8	227 55.4	S 4 57.3	N 45	5 18	6 5	17 30	18 16	Aldebaran	290 47.4	N 16 32.4			
	4	74 30.2	242 55.6	S 4 58.3	N 40	5 19	6 2	17 33	18 16	Alioth	166 20.1	N 55 52.6			
	5	89 32.7	257 55.8	S 4 59.2	N 35	5 19	5 59	17 36	18 16	Alkaid	152 58.2	N 49 14.3			
	6	104 35.2	272 56.0	S 5 0.2	N 30	5 19	5 57	17 39	18 17	Alnair	27 41.6	S 46 53.0			
	7	119 37.6	287 56.2	S 5 1.2	N 25	5 18	5 54	17 41	18 17	Alnilam	275 44.7	S 1 11.6			
	8	134 40.1	302 56.4	S 5 2.1	N 20	5 17	5 52	17 43	18 18	Alphard	217 54.7	S 8 43.6			
	9	149 42.5	317 56.6	S 5 3.1	N 15	5 16	5 50	17 45	18 19	Alpheratz	357 41.5	N 29 10.8			
	10	164 45.0	332 56.7	S 5 4.0	N 14	5 16	5 50	17 46	18 19	Altair	62 6.8	N 8 54.9			
	11	179 47.5	347 56.9	S 5 5.0	N 13	5 16	5 50	17 46	18 20	Antares	112 24.5	S 26 27.8			
	12	194 49.9	2 57.1	S 5 6.0	N 12	5 16	5 49	17 46	18 20	Arcturus	145 54.3	N 19 6.8			
	13	209 52.4	17 57.3	S 5 6.9	N 11	5 15	5 49	17 47	18 20	Atria	107 25.2	S 69 3.3			
	14	224 54.9	32 57.5	S 5 7.9	N 10	5 15	5 48	17 47	18 21	Avior	234 17.5	S 59 33.4			
	15	239 57.3	47 57.7	S 5 8.8	N 9	5 15	5 48	17 48	18 21	Bellatrix	278 30.2	N 6 21.7			
	16	254 59.8	62 57.8	S 5 9.8	N 8	5 14	5 48	17 48	18 21	Betelgeuse	270 59.5	N 7 24.5			
	17	270 2.3	77 58.0	S 5 10.8	N 7	5 14	5 47	17 48	18 21	Canopus	263 55.4	S 52 42.1			
	18	285 4.7	92 58.2	S 5 11.7	N 6	5 14	5 47	17 49	18 22	Capella	280 32.0	N 46 0.6			
	19	300 7.2	107 58.4	S 5 12.7	N 5	5 14	5 47	17 49	18 22	Deneb	49 30.2	N 45 20.6			
	20	315 9.7	122 58.6	S 5 13.6	N 4	5 13	5 46	17 49	18 22	Denebola	182 32.3	N 14 29.2			
	21	330 12.1	137 58.8	S 5 14.6	N 3	5 13	5 46	17 50	18 23	Dubhe	193 50.5	N 61 39.8			
22	345 14.6	152 58.9	S 5 15.6	N 2	5 13	5 45	17 50	18 23	Elnath	278 10.5	N 28 37.0				
23	0 17.0	167 59.1	S 5 16.5	N 1	5 12	5 45	17 51	18 24	Eltanin	90 45.5	N 51 29.7				
7	0	15 19.5	182 59.3	S 5 17.5	S 1	5 11	5 44	17 51	18 24	Enif	33 45.4	N 9 57.1			
	1	30 22.0	197 59.5	S 5 18.4	S 2	5 11	5 44	17 52	18 25	Formalhaut	15 22.1	S 29 32.2			
	2	45 24.4	212 59.7	S 5 19.4	S 3	5 11	5 44	17 52	18 25	Gacrux	171 59.6	S 57 11.9			
	3	60 26.9	227 59.9	S 5 20.3	S 4	5 10	5 43	17 53	18 26	Hadar	148 46.1	S 60 26.8			
	4	75 29.4	243 0.0	S 5 21.3	S 5	5 10	5 43	17 53	18 26	Hamal	327 58.7	N 23 32.2			
	5	90 31.8	258 0.2	S 5 22.3	S 6	5 9	5 42	17 53	18 27	Kaus Aust	83 41.8	S 34 22.4			
	6	105 34.3	273 0.4	S 5 23.2	S 7	5 9	5 42	17 54	18 27	Kochab	137 21.2	N 74 5.7			
	7	120 36.8	288 0.6	S 5 24.2	S 8	5 8	5 42	17 54	18 27	Markab	13 36.5	N 15 17.6			
	8	135 39.2	303 0.8	S 5 25.1	S 9	5 8	5 41	17 55	18 28	Menkent	148 5.9	S 36 26.5			
	9	150 41.7	318 0.9	S 5 26.1	S 10	5 7	5 41	17 55	18 29	Miaplacidu	221 39.6	S 69 46.8			
	10	165 44.2	333 1.1	S 5 27.0	S 11	5 7	5 40	17 55	18 29	Mirfak	308 37.7	N 49 54.8			
	11	180 46.6	348 1.3	S 5 28.0	S 12	5 6	5 40	17 56	18 30	Nunki	75 56.4	S 26 16.4			
	12	195 49.1	3 1.5	S 5 29.0	S 13	5 6	5 40	17 56	18 30	Peacock	53 16.7	S 56 41.0			
	13	210 51.5	18 1.7	S 5 29.9	S 14	5 5	5 39	17 57	18 31	Pollux	243 25.8	N 27 59.1			
	14	225 54.0	33 1.8	S 5 30.9	S 15	5 5	5 39	17 57	18 31	Procyon	244 58.0	N 5 11.3			
	15	240 56.5	48 2.0	S 5 31.8	S 20	5 1	5 37	17 59	18 35	Rasalhague	96 5.2	N 12 33.4			
	16	255 58.9	63 2.2	S 5 32.8	S 25	4 58	5 34	18 2	18 38	Regulus	207 42.1	N 11 53.4			
	17	271 1.4	78 2.4	S 5 33.7	S 30	4 53	5 32	18 4	18 43	Rigel	281 10.4	S 8 11.0			
	18	286 3.9	93 2.6	S 5 34.7	S 35	4 48	5 29	18 7	18 48	Rigel Kent	139 48.1	S 60 54.1			
	19	301 6.3	108 2.7	S 5 35.6	S 40	4 42	5 26	18 11	18 55	Schedar	349 38.1	N 56 37.5			
	20	316 8.8	123 2.9	S 5 36.6	S 45	4 34	5 22	18 15	19 2	Shaula	96 19.9	S 37 6.7			
	21	331 11.3	138 3.1	S 5 37.6	S 50	4 24	5 17	18 20	19 12	Sirius	258 32.2	S 16 43.9			
	22	346 13.7	153 3.3	S 5 38.5	S 55	4 12	5 11	18 26	19 26	Spica	158 29.9	S 11 14.4			
23	1 16.2	168 3.5	S 5 39.5	S 60	3 54	5 4	18 33	19 44	Vega	80 38.0	N 38 48.3				
Día	Sol				Luna										
	Ecuación del tiempo (00 ^h)		Corr. <i>d</i>	Paso por el meridiano	Edad día	Porcentaje de iluminación	Fase								
6	m s	m s		h m											
7	11 40	11 48	1.0	11 48	23.4	38									
	11 57	12 6	1.0	11 48	24.4	29									

Tabla G. Jueves 8 de octubre – viernes 9 de octubre de 2015.

Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
8	h	° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m	h m	h m	Nombre	° / ' / "	° / ' / "	
	0	16 18.6	183 3.6	S 5 40.4	N 60	5 18	6 24	17 10	18 15	Achernar	335 25.2	S 57 9.4			
	1	31 21.1	198 3.8	S 5 41.4	N 55	5 20	6 17	17 17	18 14	AcruX	173 8.1	S 63 11.0			
	2	46 23.6	213 4.0	S 5 42.3	N 50	5 21	6 12	17 22	18 13	Adhara	255 11.3	S 28 59.5			
	3	61 26.0	228 4.2	S 5 43.3	N 45	5 21	6 7	17 26	18 13	Aldebaran	290 47.4	N 16 32.4			
	4	76 28.5	243 4.3	S 5 44.2	N 40	5 21	6 4	17 30	18 13	Alioth	166 20.0	N 55 52.6			
	5	91 31.0	258 4.5	S 5 45.2	N 35	5 21	6 1	17 33	18 13	Alkaid	152 58.2	N 49 14.3			
	6	106 33.4	273 4.7	S 5 46.2	N 30	5 20	5 58	17 36	18 14	Alnair	27 41.6	S 46 53.0			
	7	121 35.9	288 4.9	S 5 47.1	N 25	5 19	5 55	17 39	18 15	Alnilam	275 44.7	S 1 11.6			
	8	136 38.4	303 5.1	S 5 48.1	N 20	5 18	5 53	17 41	18 16	Alphard	217 54.7	S 8 43.6			
	9	151 40.8	318 5.2	S 5 49.0	N 15	5 17	5 51	17 44	18 18	Alpheratz	357 41.5	N 29 10.8			
	10	166 43.3	333 5.4	S 5 50.0	N 14	5 16	5 50	17 44	18 18	Altair	62 6.8	N 8 54.9			
	11	181 45.8	348 5.6	S 5 50.9	N 13	5 16	5 50	17 45	18 18	Antares	112 24.5	S 26 27.8			
	12	196 48.2	3 5.8	S 5 51.9	N 12	5 16	5 49	17 45	18 19	Arcturus	145 54.4	N 19 6.8			
	13	211 50.7	18 5.9	S 5 52.8	N 11	5 15	5 49	17 46	18 19	Atria	107 25.2	S 69 3.3			
	14	226 53.1	33 6.1	S 5 53.8	N 10	5 15	5 48	17 46	18 19	Avior	234 17.5	S 59 33.4			
	15	241 55.6	48 6.3	S 5 54.7	N 9	5 15	5 48	17 47	18 20	Bellatrix	278 30.2	N 6 21.7			
	16	256 58.1	63 6.5	S 5 55.7	N 8	5 14	5 48	17 47	18 20	Betelgeuse	270 59.5	N 7 24.5			
	17	272 0.5	78 6.6	S 5 56.6	N 7	5 14	5 47	17 47	18 21	Canopus	263 55.4	S 52 42.1			
	18	287 3.0	93 6.8	S 5 57.6	N 6	5 14	5 47	17 48	18 21	Capella	280 32.0	N 46 0.6			
	19	302 5.5	108 7.0	S 5 58.6	N 5	5 13	5 46	17 48	18 21	Deneb	49 30.2	N 45 20.6			
	20	317 7.9	123 7.2	S 5 59.5	N 4	5 13	5 46	17 49	18 22	Denebola	182 32.3	N 14 29.2			
	21	332 10.4	138 7.3	S 6 0.5	N 3	5 12	5 45	17 49	18 22	Dubhe	193 50.4	N 61 39.8			
22	347 12.9	153 7.5	S 6 1.4	N 2	5 12	5 45	17 50	18 23	Elnath	278 10.5	N 28 37.0				
23	2 15.3	168 7.7	S 6 2.4	N 1	5 12	5 45	17 50	18 23	Eltanin	90 45.6	N 51 29.7				
9	0	17 17.8	183 7.9	S 6 3.3	S 1	5 11	5 44	17 50	18 23	Enif	33 45.4	N 9 57.1			
	1	32 20.3	198 8.0	S 6 4.3	S 2	5 10	5 43	17 51	18 24	Formalhaut	15 22.1	S 29 32.2			
	2	47 22.7	213 8.2	S 6 5.2	S 3	5 10	5 43	17 52	18 25	Gacrux	171 59.6	S 57 11.9			
	3	62 25.2	228 8.4	S 6 6.2	S 4	5 9	5 42	17 52	18 25	Hadar	148 46.1	S 60 26.8			
	4	77 27.6	243 8.5	S 6 7.1	S 5	5 9	5 42	17 53	18 26	Hamal	327 58.7	N 23 32.2			
	5	92 30.1	258 8.7	S 6 8.1	S 6	5 8	5 41	17 53	18 26	Kaus Aust	83 41.8	S 34 22.4			
	6	107 32.6	273 8.9	S 6 9.0	S 7	5 8	5 41	17 54	18 27	Kochab	137 21.3	N 74 5.7			
	7	122 35.0	288 9.1	S 6 10.0	S 8	5 7	5 41	17 54	18 27	Markab	13 36.5	N 15 17.6			
	8	137 37.5	303 9.2	S 6 10.9	S 9	5 7	5 40	17 55	18 28	Menkent	148 5.9	S 36 26.5			
	9	152 40.0	318 9.4	S 6 11.9	S 10	5 6	5 40	17 55	18 29	Miaplacidu	221 39.6	S 69 46.8			
	10	167 42.4	333 9.6	S 6 12.8	S 11	5 6	5 39	17 56	18 29	Mirfak	308 37.7	N 49 54.8			
	11	182 44.9	348 9.7	S 6 13.8	S 12	5 5	5 39	17 56	18 30	Nunki	75 56.4	S 26 16.4			
	12	197 47.4	3 9.9	S 6 14.7	S 13	5 4	5 38	17 56	18 30	Peacock	53 16.7	S 56 41.0			
	13	212 49.8	18 10.1	S 6 15.7	S 14	5 4	5 38	17 57	18 31	Pollux	243 25.7	N 27 59.1			
	14	227 52.3	33 10.3	S 6 16.6	S 15	5 3	5 37	17 57	18 32	Procyon	244 58.0	N 5 11.2			
	15	242 54.7	48 10.4	S 6 17.6	S 20	5 0	5 35	18 0	18 35	Rasalhague	96 5.2	N 12 33.4			
	16	257 57.2	63 10.6	S 6 18.5	S 25	4 56	5 32	18 3	18 39	Regulus	207 42.0	N 11 53.4			
	17	272 59.7	78 10.8	S 6 19.5	S 30	4 51	5 29	18 6	18 44	Rigel	281 10.4	S 8 11.0			
	18	288 2.1	93 10.9	S 6 20.4	S 35	4 45	5 26	18 9	18 50	Rigel Kent	139 48.2	S 60 54.1			
	19	303 4.6	108 11.1	S 6 21.4	S 40	4 39	5 22	18 13	18 57	Schedar	349 38.1	N 56 37.5			
	20	318 7.1	123 11.3	S 6 22.3	S 45	4 30	5 18	18 17	19 5	Shaula	96 19.9	S 37 6.7			
	21	333 9.5	138 11.4	S 6 23.3	S 50	4 20	5 13	18 23	19 16	Sirius	258 32.2	S 16 43.9			
	22	348 12.0	153 11.6	S 6 24.2	S 55	4 6	5 6	18 30	19 30	Spica	158 29.9	S 11 14.4			
23	3 14.5	168 11.8	S 6 25.2	S 60	3 47	4 58	18 38	19 49	Vega	80 38.0	N 38 48.3				
Día	Sol				Luna										
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día	Porcentaje de iluminación	Fase								
8	m s	m s		h m											
9	12 15	12 23	0.9	11 48	25.3	21									
	12 31	12 40	0.9	11 47	26.2	13									



Tabla G. Sábado 10 de octubre – domingo 11 de octubre de 2015.


Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas			
		GHA	GHA	Dec.	Nombre	SHA	Dec.									
10	h	° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m							
	0	18 16.9	183 12.0	S 6 26.1	N 60	5 23	6 29	17 4	18 10	Achernar	335 25.2	S 57 9.4				
	1	33 19.4	198 12.1	S 6 27.1	N 55	5 23	6 21	17 12	18 9	Acrux	173 8.1	S 63 11.0				
	2	48 21.9	213 12.3	S 6 28.0	N 50	5 24	6 15	17 18	18 9	Adhara	255 11.3	S 28 59.5				
	3	63 24.3	228 12.5	S 6 29.0	N 45	5 23	6 10	17 23	18 9	Aldebaran	290 47.4	N 16 32.4				
	4	78 26.8	243 12.6	S 6 29.9	N 40	5 23	6 6	17 27	18 10	Alioth	166 20.0	N 55 52.6				
	5	93 29.2	258 12.8	S 6 30.9	N 35	5 22	6 2	17 31	18 11	Alkaid	152 58.2	N 49 14.3				
	6	108 31.7	273 13.0	S 6 31.8	N 30	5 21	5 59	17 34	18 12	Alnair	27 41.6	S 46 53.0				
	7	123 34.2	288 13.1	S 6 32.8	N 25	5 20	5 56	17 37	18 13	Alnilam	275 44.7	S 1 11.6				
	8	138 36.6	303 13.3	S 6 33.7	N 20	5 18	5 53	17 40	18 15	Alphard	217 54.7	S 8 43.6				
	9	153 39.1	318 13.5	S 6 34.7	N 15	5 17	5 51	17 42	18 17	Alpheratz	357 41.5	N 29 10.8				
	10	168 41.6	333 13.6	S 6 35.6	N 14	5 16	5 50	17 43	18 17	Altair	62 6.8	N 8 54.9				
	11	183 44.0	348 13.8	S 6 36.5	N 13	5 16	5 50	17 43	18 17	Antares	112 24.6	S 26 27.8				
	12	198 46.5	3 14.0	S 6 37.5	N 12	5 16	5 49	17 44	18 18	Arcturus	145 54.4	N 19 6.8				
	13	213 49.0	18 14.1	S 6 38.4	N 11	5 15	5 49	17 44	18 18	Atria	107 25.2	S 69 3.3				
	14	228 51.4	33 14.3	S 6 39.4	N 10	5 15	5 48	17 45	18 18	Avior	234 17.5	S 59 33.4				
	15	243 53.9	48 14.5	S 6 40.3	N 9	5 15	5 48	17 45	18 19	Bellatrix	278 30.2	N 6 21.7				
	16	258 56.4	63 14.6	S 6 41.3	N 8	5 14	5 47	17 46	18 19	Betelgeuse	270 59.5	N 7 24.5				
	17	273 58.8	78 14.8	S 6 42.2	N 7	5 14	5 47	17 46	18 20	Canopus	263 55.3	S 52 42.1				
	18	289 1.3	93 15.0	S 6 43.2	N 6	5 13	5 46	17 47	18 20	Capella	280 31.9	N 46 0.6				
	19	304 3.7	108 15.1	S 6 44.1	N 5	5 13	5 46	17 47	18 21	Deneb	49 30.2	N 45 20.6				
	20	319 6.2	123 15.3	S 6 45.1	N 4	5 12	5 45	17 48	18 21	Denebola	182 32.3	N 14 29.2				
	21	334 8.7	138 15.5	S 6 46.0	N 3	5 12	5 45	17 48	18 22	Dubhe	193 50.4	N 61 39.8				
22	349 11.1	153 15.6	S 6 47.0	N 2	5 12	5 45	17 49	18 22	Elnath	278 10.5	N 28 37.0					
23	4 13.6	168 15.8	S 6 47.9	N 1	5 11	5 44	17 49	18 22	Eltanin	90 45.6	N 51 29.7					
11	0	19 16.1	183 15.9	S 6 48.8	S 1	5 10	5 43	17 50	18 23	Enif	33 45.4	N 9 57.1				
	1	34 18.5	198 16.1	S 6 49.8	S 2	5 10	5 43	17 51	18 24	Formalhaut	15 22.1	S 29 32.2				
	2	49 21.0	213 16.3	S 6 50.7	S 3	5 9	5 42	17 51	18 25	Gacrux	171 59.6	S 57 11.9				
	3	64 23.5	228 16.4	S 6 51.7	S 4	5 9	5 42	17 52	18 25	Hadar	148 46.2	S 60 26.8				
	4	79 25.9	243 16.6	S 6 52.6	S 5	5 8	5 41	17 52	18 26	Hamal	327 58.7	N 23 32.2				
	5	94 28.4	258 16.8	S 6 53.6	S 6	5 7	5 41	17 53	18 26	Kaus Aust	83 41.8	S 34 22.4				
	6	109 30.9	273 16.9	S 6 54.5	S 7	5 7	5 40	17 53	18 27	Kochab	137 21.3	N 74 5.7				
	7	124 33.3	288 17.1	S 6 55.5	S 8	5 6	5 40	17 54	18 27	Markab	13 36.5	N 15 17.6				
	8	139 35.8	303 17.2	S 6 56.4	S 9	5 6	5 39	17 55	18 28	Menkent	148 5.9	S 36 26.5				
	9	154 38.2	318 17.4	S 6 57.3	S 10	5 5	5 39	17 55	18 29	Miaplacidu	221 39.5	S 69 46.8				
	10	169 40.7	333 17.6	S 6 58.3	S 11	5 4	5 38	17 56	18 29	Mirfak	308 37.7	N 49 54.8				
	11	184 43.2	348 17.7	S 6 59.2	S 12	5 4	5 38	17 56	18 30	Nunki	75 56.4	S 26 16.4				
	12	199 45.6	3 17.9	S 7 0.2	S 13	5 3	5 37	17 57	18 31	Peacock	53 16.7	S 56 41.0				
	13	214 48.1	18 18.1	S 7 1.1	S 14	5 2	5 37	17 57	18 31	Pollux	243 25.7	N 27 59.1				
	14	229 50.6	33 18.2	S 7 2.1	S 15	5 2	5 36	17 58	18 32	Procyon	244 58.0	N 5 11.2				
	15	244 53.0	48 18.4	S 7 3.0	S 20	4 58	5 33	18 1	18 36	Rasalhague	96 5.2	N 12 33.4				
	16	259 55.5	63 18.5	S 7 3.9	S 25	4 54	5 30	18 4	18 40	Regulus	207 42.0	N 11 53.4				
	17	274 58.0	78 18.7	S 7 4.9	S 30	4 49	5 27	18 7	18 46	Rigel	281 10.4	S 8 11.0				
	18	290 0.4	93 18.9	S 7 5.8	S 35	4 43	5 23	18 11	18 52	Rigel Kent	139 48.2	S 60 54.1				
	19	305 2.9	108 19.0	S 7 6.8	S 40	4 35	5 19	18 15	18 59	Schedar	349 38.1	N 56 37.5				
	20	320 5.3	123 19.2	S 7 7.7	S 45	4 26	5 14	18 20	19 8	Shaula	96 20.0	S 37 6.7				
	21	335 7.8	138 19.3	S 7 8.7	S 50	4 15	5 9	18 26	19 19	Sirius	258 32.2	S 16 43.9				
	22	350 10.3	153 19.5	S 7 9.6	S 55	4 1	5 1	18 34	19 34	Spica	158 29.9	S 11 14.4				
23	5 12.7	168 19.7	S 7 10.5	S 60	3 41	4 52	18 43	19 55	Vega	80 38.0	N 38 48.3					
Día	Sol						Luna									
	Ecuación del tiempo (00 ^h)		Corr. <i>d</i>	Paso por el meridiano	Edad día	Porcentaje de iluminación		Fase								
	m s	m s		h m												
10	12 48	12 56	0.9	11 47	27.0	7										
11	13 4	13 12	0.9	11 47	27.9	3										

Tabla G. Lunes 12 de octubre – martes 13 de octubre de 2015.

Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
12	h	° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m	h m	h m	Nombre	° / ' / "	° / ' / "	
	0	20 15.2	183 19.8	S 7 11.5	N 60	5 27	6 33	16 58	18 4	18 4	18 4	Achernar	335 25.2	S 57 9.4	
	1	35 17.7	198 20.0	S 7 12.4	N 55	5 27	6 25	17 7	18 4	18 4	18 4	Acrux	173 8.1	S 63 11.0	
	2	50 20.1	213 20.1	S 7 13.4	N 50	5 27	6 18	17 14	18 5	18 5	18 5	Adhara	255 11.3	S 28 59.5	
	3	65 22.6	228 20.3	S 7 14.3	N 45	5 26	6 13	17 19	18 6	18 6	18 6	Aldebaran	290 47.4	N 16 32.4	
	4	80 25.1	243 20.4	S 7 15.2	N 40	5 25	6 8	17 24	18 7	18 7	18 7	Alioth	166 20.0	N 55 52.5	
	5	95 27.5	258 20.6	S 7 16.2	N 35	5 24	6 4	17 28	18 8	18 8	18 8	Alkaid	152 58.2	N 49 14.3	
	6	110 30.0	273 20.8	S 7 17.1	N 30	5 22	6 0	17 32	18 10	18 10	18 10	Alnair	27 41.6	S 46 53.0	
	7	125 32.5	288 20.9	S 7 18.1	N 25	5 21	5 57	17 35	18 11	18 11	18 11	Alnilam	275 44.6	S 1 11.6	
	8	140 34.9	303 21.1	S 7 19.0	N 20	5 19	5 54	17 38	18 13	18 13	18 13	Alphard	217 54.7	S 8 43.6	
	9	155 37.4	318 21.2	S 7 19.9	N 15	5 17	5 51	17 41	18 15	18 15	18 15	Alpheratz	357 41.5	N 29 10.8	
	10	170 39.8	333 21.4	S 7 20.9	N 14	5 17	5 51	17 42	18 16	18 16	18 16	Altair	62 6.8	N 8 54.9	
	11	185 42.3	348 21.5	S 7 21.8	N 13	5 16	5 50	17 42	18 16	18 16	18 16	Antares	112 24.6	S 26 27.8	
	12	200 44.8	3 21.7	S 7 22.8	N 12	5 16	5 50	17 43	18 17	18 17	18 17	Arcturus	145 54.4	N 19 6.8	
	13	215 47.2	18 21.9	S 7 23.7	N 11	5 15	5 49	17 43	18 17	18 17	18 17	Atria	107 25.3	S 69 3.3	
	14	230 49.7	33 22.0	S 7 24.6	N 10	5 15	5 48	17 44	18 17	18 17	18 17	Avior	234 17.5	S 59 33.4	
	15	245 52.2	48 22.2	S 7 25.6	N 9	5 14	5 48	17 45	18 18	18 18	18 18	Bellatrix	278 30.2	N 6 21.7	
	16	260 54.6	63 22.3	S 7 26.5	N 8	5 14	5 47	17 45	18 18	18 18	18 18	Betelgeuse	270 59.5	N 7 24.5	
	17	275 57.1	78 22.5	S 7 27.5	N 7	5 14	5 47	17 46	18 19	18 19	18 19	Canopus	263 55.3	S 52 42.1	
	18	290 59.6	93 22.6	S 7 28.4	N 6	5 13	5 46	17 46	18 19	18 19	18 19	Capella	280 31.9	N 46 0.6	
	19	306 2.0	108 22.8	S 7 29.3	N 5	5 13	5 46	17 47	18 20	18 20	18 20	Deneb	49 30.2	N 45 20.6	
	20	321 4.5	123 22.9	S 7 30.3	N 4	5 12	5 45	17 47	18 20	18 20	18 20	Denebola	182 32.3	N 14 29.2	
	21	336 7.0	138 23.1	S 7 31.2	N 3	5 12	5 45	17 48	18 21	18 21	18 21	Dubhe	193 50.4	N 61 39.8	
22	351 9.4	153 23.2	S 7 32.1	N 2	5 11	5 44	17 48	18 21	18 21	18 21	Elnath	278 10.5	N 28 37.0		
23	6 11.9	168 23.4	S 7 33.1	N 1	5 11	5 44	17 49	18 22	18 22	18 22	Eltanin	90 45.6	N 51 29.7		
13	0	21 14.3	183 23.6	S 7 34.0	S 1	5 9	5 42	17 50	18 23	18 23	18 23	Enif	33 45.4	N 9 57.1	
	1	36 16.8	198 23.7	S 7 35.0	S 2	5 9	5 42	17 51	18 24	18 24	18 24	Formalhaut	15 22.1	S 29 32.2	
	2	51 19.3	213 23.9	S 7 35.9	S 3	5 8	5 41	17 51	18 24	18 24	18 24	Gacrux	171 59.6	S 57 11.9	
	3	66 21.7	228 24.0	S 7 36.8	S 4	5 8	5 41	17 52	18 25	18 25	18 25	Hadar	148 46.2	S 60 26.8	
	4	81 24.2	243 24.2	S 7 37.8	S 5	5 7	5 40	17 52	18 25	18 25	18 25	Hamal	327 58.7	N 23 32.2	
	5	96 26.7	258 24.3	S 7 38.7	S 6	5 7	5 40	17 53	18 26	18 26	18 26	Kaus Aust	83 41.8	S 34 22.4	
	6	111 29.1	273 24.5	S 7 39.6	S 7	5 6	5 39	17 53	18 27	18 27	18 27	Kochab	137 21.3	N 74 5.7	
	7	126 31.6	288 24.6	S 7 40.6	S 8	5 5	5 39	17 54	18 27	18 27	18 27	Markab	13 36.5	N 15 17.6	
	8	141 34.1	303 24.8	S 7 41.5	S 9	5 5	5 38	17 55	18 28	18 28	18 28	Menkent	148 5.9	S 36 26.5	
	9	156 36.5	318 24.9	S 7 42.4	S 10	5 4	5 38	17 55	18 29	18 29	18 29	Miaplacidu	221 39.5	S 69 46.8	
	10	171 39.0	333 25.1	S 7 43.4	S 11	5 3	5 37	17 56	18 29	18 29	18 29	Mirfak	308 37.6	N 49 54.8	
	11	186 41.4	348 25.2	S 7 44.3	S 12	5 3	5 36	17 56	18 30	18 30	18 30	Nunki	75 56.4	S 26 16.4	
	12	201 43.9	3 25.4	S 7 45.2	S 13	5 2	5 36	17 57	18 31	18 31	18 31	Peacock	53 16.7	S 56 41.0	
	13	216 46.4	18 25.5	S 7 46.2	S 14	5 1	5 35	17 57	18 32	18 32	18 32	Pollux	243 25.7	N 27 59.1	
	14	231 48.8	33 25.7	S 7 47.1	S 15	5 0	5 35	17 58	18 32	18 32	18 32	Procyon	244 57.9	N 5 11.2	
	15	246 51.3	48 25.8	S 7 48.1	S 20	4 56	5 32	18 1	18 37	18 37	18 37	Rasalhague	96 5.2	N 12 33.4	
	16	261 53.8	63 26.0	S 7 49.0	S 25	4 52	5 28	18 5	18 41	18 41	18 41	Regulus	207 42.0	N 11 53.4	
	17	276 56.2	78 26.1	S 7 49.9	S 30	4 46	5 25	18 8	18 47	18 47	18 47	Rigel	281 10.4	S 8 11.0	
	18	291 58.7	93 26.3	S 7 50.9	S 35	4 40	5 21	18 12	18 53	18 53	18 53	Rigel Kent	139 48.2	S 60 54.1	
	19	307 1.2	108 26.4	S 7 51.8	S 40	4 32	5 16	18 17	19 1	19 1	19 1	Schedar	349 38.1	N 56 37.5	
	20	322 3.6	123 26.6	S 7 52.7	S 45	4 23	5 11	18 23	19 11	19 11	19 11	Shaula	96 20.0	S 37 6.7	
	21	337 6.1	138 26.7	S 7 53.7	S 50	4 11	5 4	18 29	19 23	19 23	19 23	Sirius	258 32.1	S 16 43.9	
	22	352 8.6	153 26.9	S 7 54.6	S 55	3 55	4 56	18 37	19 39	19 39	19 39	Spica	158 29.9	S 11 14.4	
23	7 11.0	168 27.0	S 7 55.5	S 60	3 34	4 46	18 48	20 1	20 1	20 1	Vega	80 38.0	N 38 48.3		
Día	Sol				Luna										
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día	Porcentaje de iluminación	Fase								
12	m s	m s		h m											
13	13 19	13 27	0.9	11 47	28.7	0									
13	13 34	13 41	0.9	11 46	0.0	0									

Tabla G. Miércoles 14 de octubre – jueves 15 de octubre de 2015.

Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
14	h	° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m	h m	h m	h m	Nombre	° / ' / "	° / ' / "
	0	22 13.5	183 27.2	S 7 56.5	N 60	5 32	6 38	16 52	17 58	Achernar	335 25.2	S 57 9.4			
	1	37 15.9	198 27.3	S 7 57.4	N 55	5 31	6 29	17 2	18 0	Acruz	173 8.1	S 63 11.0			
	2	52 18.4	213 27.5	S 7 58.3	N 50	5 30	6 21	17 10	18 1	Adhara	255 11.2	S 28 59.5			
	3	67 20.9	228 27.6	S 7 59.2	N 45	5 28	6 15	17 16	18 2	Aldebaran	290 47.4	N 16 32.4			
	4	82 23.3	243 27.8	S 8 0.2	N 40	5 27	6 10	17 21	18 4	Alioth	166 20.0	N 55 52.5			
	5	97 25.8	258 27.9	S 8 1.1	N 35	5 25	6 6	17 26	18 6	Alkaid	152 58.2	N 49 14.3			
	6	112 28.3	273 28.0	S 8 2.0	N 30	5 23	6 2	17 30	18 8	Alnair	27 41.6	S 46 53.0			
	7	127 30.7	288 28.2	S 8 3.0	N 25	5 22	5 58	17 33	18 10	Alnilam	275 44.6	S 1 11.6			
	8	142 33.2	303 28.3	S 8 3.9	N 20	5 20	5 55	17 37	18 12	Alphard	217 54.7	S 8 43.6			
	9	157 35.7	318 28.5	S 8 4.8	N 15	5 17	5 52	17 40	18 14	Alpheratz	357 41.5	N 29 10.8			
	10	172 38.1	333 28.6	S 8 5.8	N 14	5 17	5 51	17 41	18 15	Altair	62 6.8	N 8 54.9			
	11	187 40.6	348 28.8	S 8 6.7	N 13	5 16	5 50	17 41	18 15	Antares	112 24.6	S 26 27.8			
	12	202 43.1	3 28.9	S 8 7.6	N 12	5 16	5 50	17 42	18 16	Arcturus	145 54.4	N 19 6.8			
	13	217 45.5	18 29.1	S 8 8.6	N 11	5 15	5 49	17 42	18 16	Atria	107 25.3	S 69 3.3			
	14	232 48.0	33 29.2	S 8 9.5	N 10	5 15	5 48	17 43	18 17	Avior	234 17.4	S 59 33.4			
	15	247 50.4	48 29.4	S 8 10.4	N 9	5 14	5 48	17 44	18 17	Bellatrix	278 30.2	N 6 21.7			
	16	262 52.9	63 29.5	S 8 11.3	N 8	5 14	5 47	17 44	18 18	Betelgeuse	270 59.5	N 7 24.5			
	17	277 55.4	78 29.6	S 8 12.3	N 7	5 13	5 47	17 45	18 18	Canopus	263 55.3	S 52 42.1			
	18	292 57.8	93 29.8	S 8 13.2	N 6	5 13	5 46	17 45	18 19	Capella	280 31.9	N 46 0.6			
	19	308 0.3	108 29.9	S 8 14.1	N 5	5 12	5 46	17 46	18 19	Deneb	49 30.2	N 45 20.7			
	20	323 2.8	123 30.1	S 8 15.1	N 4	5 12	5 45	17 47	18 20	Denebola	182 32.3	N 14 29.1			
	21	338 5.2	138 30.2	S 8 16.0	N 3	5 11	5 44	17 47	18 20	Dubhe	193 50.4	N 61 39.8			
22	353 7.7	153 30.4	S 8 16.9	N 2	5 11	5 44	17 48	18 21	Elnath	278 10.5	N 28 37.0				
23	8 10.2	168 30.5	S 8 17.8	N 1	5 10	5 43	17 48	18 22	Eltanin	90 45.6	N 51 29.7				
15	0	23 12.6	183 30.6	S 8 18.8	S 1	5 9	5 43	17 49	18 22	Enif	33 45.4	N 9 57.1			
	1	38 15.1	198 30.8	S 8 19.7	S 2	5 8	5 41	17 50	18 23	Formalhaut	15 22.1	S 29 32.2			
	2	53 17.5	213 30.9	S 8 20.6	S 3	5 8	5 41	17 51	18 24	Gacrux	171 59.6	S 57 11.8			
	3	68 20.0	228 31.1	S 8 21.6	S 4	5 7	5 40	17 51	18 25	Hadar	148 46.2	S 60 26.8			
	4	83 22.5	243 31.2	S 8 22.5	S 5	5 6	5 40	17 52	18 25	Hamal	327 58.7	N 23 32.2			
	5	98 24.9	258 31.4	S 8 23.4	S 6	5 6	5 39	17 53	18 26	Kaus Aust	83 41.8	S 34 22.4			
	6	113 27.4	273 31.5	S 8 24.3	S 7	5 5	5 38	17 53	18 27	Kochab	137 21.3	N 74 5.7			
	7	128 29.9	288 31.6	S 8 25.3	S 8	5 4	5 38	17 54	18 27	Markab	13 36.5	N 15 17.6			
	8	143 32.3	303 31.8	S 8 26.2	S 9	5 3	5 37	17 55	18 28	Menkent	148 5.9	S 36 26.5			
	9	158 34.8	318 31.9	S 8 27.1	S 10	5 3	5 37	17 55	18 29	Miaplacidu	221 39.5	S 69 46.7			
	10	173 37.3	333 32.1	S 8 28.0	S 11	5 2	5 36	17 56	18 30	Mirfak	308 37.6	N 49 54.8			
	11	188 39.7	348 32.2	S 8 29.0	S 12	5 1	5 35	17 56	18 30	Nunki	75 56.5	S 26 16.4			
	12	203 42.2	3 32.3	S 8 29.9	S 13	5 1	5 35	17 57	18 31	Peacock	53 16.7	S 56 41.0			
	13	218 44.7	18 32.5	S 8 30.8	S 14	5 0	5 34	17 58	18 32	Pollux	243 25.7	N 27 59.1			
	14	233 47.1	33 32.6	S 8 31.7	S 15	4 59	5 33	17 58	18 33	Procyon	244 57.9	N 5 11.2			
	15	248 49.6	48 32.8	S 8 32.7	S 20	4 55	5 30	18 2	18 37	Rasalhague	96 5.2	N 12 33.4			
	16	263 52.0	63 32.9	S 8 33.6	S 25	4 50	5 26	18 6	18 42	Regulus	207 42.0	N 11 53.4			
	17	278 54.5	78 33.0	S 8 34.5	S 30	4 44	5 22	18 10	18 48	Rigel	281 10.4	S 8 11.1			
	18	293 57.0	93 33.2	S 8 35.4	S 35	4 37	5 18	18 14	18 55	Rigel Kent	139 48.2	S 60 54.1			
	19	308 59.4	108 33.3	S 8 36.4	S 40	4 29	5 13	18 19	19 4	Schedar	349 38.1	N 56 37.5			
	20	324 1.9	123 33.4	S 8 37.3	S 45	4 19	5 7	18 25	19 14	Shaula	96 20.0	S 37 6.7			
	21	339 4.4	138 33.6	S 8 38.2	S 50	4 6	5 0	18 32	19 27	Sirius	258 32.1	S 16 43.9			
	22	354 6.8	153 33.7	S 8 39.1	S 55	3 50	4 51	18 41	19 44	Spica	158 29.9	S 11 14.4			
23	9 9.3	168 33.9	S 8 40.1	S 60	3 27	4 40	18 53	20 7	Vega	80 38.1	N 38 48.3				
Día	Sol				Luna										
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día	Porcentaje de iluminación		Fase							
14	m s	m s		h m											
15	13 49	13 56	0.9	11 46	0		●								
	14 3	14 9	0.9	11 46	3										

Tabla G. Viernes 16 de octubre – sábado 17 de octubre de 2015.

Día	TU	Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		Aries	Sol							Nombre	SHA	Dec.
		GHA	GHA	Dec.						° / ' / "	° / ' / "	
16	h	° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m			
	0	24 11.8	183 34.0	S 8 41.0	N 60	5 37	6 43	16 46	17 53	Achernar	335 25.2	S 57 9.4
	1	39 14.2	198 34.1	S 8 41.9	N 55	5 35	6 33	16 57	17 55	Acrux	173 8.1	S 63 11.0
	2	54 16.7	213 34.3	S 8 42.8	N 50	5 33	6 24	17 5	17 57	Adhara	255 11.2	S 28 59.5
	3	69 19.2	228 34.4	S 8 43.7	N 45	5 31	6 18	17 12	17 59	Aldebaran	290 47.4	N 16 32.4
	4	84 21.6	243 34.5	S 8 44.7	N 40	5 29	6 12	17 18	18 1	Alioth	166 20.0	N 55 52.5
	5	99 24.1	258 34.7	S 8 45.6	N 35	5 27	6 7	17 23	18 3	Alkaid	152 58.2	N 49 14.3
	6	114 26.5	273 34.8	S 8 46.5	N 30	5 25	6 3	17 27	18 6	Alnair	27 41.6	S 46 53.0
	7	129 29.0	288 34.9	S 8 47.4	N 25	5 22	5 59	17 31	18 8	Alnilam	275 44.6	S 1 11.6
	8	144 31.5	303 35.1	S 8 48.4	N 20	5 20	5 55	17 35	18 10	Alphard	217 54.7	S 8 43.6
	9	159 33.9	318 35.2	S 8 49.3	N 15	5 18	5 52	17 39	18 13	Alpheratz	357 41.5	N 29 10.9
	10	174 36.4	333 35.3	S 8 50.2	N 14	5 17	5 51	17 39	18 13	Altair	62 6.8	N 8 54.9
	11	189 38.9	348 35.5	S 8 51.1	N 13	5 17	5 51	17 40	18 14	Antares	112 24.6	S 26 27.8
	12	204 41.3	3 35.6	S 8 52.0	N 12	5 16	5 50	17 41	18 15	Arcturus	145 54.4	N 19 6.8
	13	219 43.8	18 35.7	S 8 53.0	N 11	5 15	5 49	17 41	18 15	Atria	107 25.3	S 69 3.3
	14	234 46.3	33 35.9	S 8 53.9	N 10	5 15	5 49	17 42	18 16	Avior	234 17.4	S 59 33.4
	15	249 48.7	48 36.0	S 8 54.8	N 9	5 14	5 48	17 43	18 16	Bellatrix	278 30.2	N 6 21.7
	16	264 51.2	63 36.1	S 8 55.7	N 8	5 14	5 47	17 43	18 17	Betelgeuse	270 59.5	N 7 24.5
	17	279 53.6	78 36.3	S 8 56.6	N 7	5 13	5 47	17 44	18 17	Canopus	263 55.3	S 52 42.1
	18	294 56.1	93 36.4	S 8 57.6	N 6	5 13	5 46	17 45	18 18	Capella	280 31.9	N 46 0.6
	19	309 58.6	108 36.5	S 8 58.5	N 5	5 12	5 45	17 45	18 19	Deneb	49 30.2	N 45 20.7
	20	325 1.0	123 36.7	S 8 59.4	N 4	5 11	5 45	17 46	18 19	Denebola	182 32.3	N 14 29.1
	21	340 3.5	138 36.8	S 9 0.3	N 3	5 11	5 44	17 47	18 20	Dubhe	193 50.4	N 61 39.8
22	355 6.0	153 36.9	S 9 1.2	N 2	5 10	5 43	17 47	18 20	Elnath	278 10.4	N 28 37.0	
23	10 8.4	168 37.1	S 9 2.1	N 1	5 10	5 43	17 48	18 21	Eltanin	90 45.6	N 51 29.7	
				0	5 9	5 42	17 49	18 22				
17	0	25 10.9	183 37.2	S 9 3.1	S 1	5 8	5 41	17 49	18 22	Enif	33 45.4	N 9 57.1
	1	40 13.4	198 37.3	S 9 4.0	S 2	5 8	5 41	17 50	18 23	Formalhaut	15 22.1	S 29 32.2
	2	55 15.8	213 37.5	S 9 4.9	S 3	5 7	5 40	17 51	18 24	Gacrux	171 59.6	S 57 11.8
	3	70 18.3	228 37.6	S 9 5.8	S 4	5 6	5 40	17 51	18 25	Hadar	148 46.2	S 60 26.8
	4	85 20.8	243 37.7	S 9 6.7	S 5	5 6	5 39	17 52	18 25	Hamal	327 58.7	N 23 32.2
	5	100 23.2	258 37.9	S 9 7.6	S 6	5 5	5 38	17 53	18 26	Kaus Aust	83 41.9	S 34 22.4
	6	115 25.7	273 38.0	S 9 8.6	S 7	5 4	5 38	17 53	18 27	Kochab	137 21.3	N 74 5.7
	7	130 28.1	288 38.1	S 9 9.5	S 8	5 3	5 37	17 54	18 28	Markab	13 36.5	N 15 17.6
	8	145 30.6	303 38.2	S 9 10.4	S 9	5 2	5 36	17 55	18 28	Menkent	148 5.9	S 36 26.5
	9	160 33.1	318 38.4	S 9 11.3	S 10	5 2	5 36	17 55	18 29	Miaplacidu	221 39.4	S 69 46.7
	10	175 35.5	333 38.5	S 9 12.2	S 11	5 1	5 35	17 56	18 30	Mirfak	308 37.6	N 49 54.8
	11	190 38.0	348 38.6	S 9 13.1	S 12	5 0	5 34	17 57	18 31	Nunki	75 56.5	S 26 16.4
	12	205 40.5	3 38.8	S 9 14.1	S 13	4 59	5 34	17 57	18 32	Peacock	53 16.7	S 56 41.0
	13	220 42.9	18 38.9	S 9 15.0	S 14	4 58	5 33	17 58	18 32	Pollux	243 25.7	N 27 59.1
	14	235 45.4	33 39.0	S 9 15.9	S 15	4 58	5 32	17 59	18 33	Procyon	244 57.9	N 5 11.2
	15	250 47.9	48 39.1	S 9 16.8	S 20	4 53	5 28	18 3	18 38	Rasalhague	96 5.2	N 12 33.4
	16	265 50.3	63 39.3	S 9 17.7	S 25	4 48	5 25	18 7	18 44	Regulus	207 42.0	N 11 53.4
	17	280 52.8	78 39.4	S 9 18.6	S 30	4 41	5 20	18 11	18 50	Rigel	281 10.4	S 8 11.1
	18	295 55.3	93 39.5	S 9 19.5	S 35	4 34	5 16	18 16	18 57	Rigel Kent	139 48.2	S 60 54.1
	19	310 57.7	108 39.6	S 9 20.4	S 40	4 26	5 10	18 21	19 6	Schedar	349 38.1	N 56 37.5
	20	326 0.2	123 39.8	S 9 21.4	S 45	4 15	5 4	18 28	19 17	Shaula	96 20.0	S 37 6.7
	21	341 2.6	138 39.9	S 9 22.3	S 50	4 2	4 56	18 36	19 30	Sirius	258 32.1	S 16 43.9
	22	356 5.1	153 40.0	S 9 23.2	S 55	3 44	4 46	18 46	19 48	Spica	158 29.9	S 11 14.4
23	11 7.6	168 40.1	S 9 24.1	S 60	3 20	4 34	18 58	20 13	Vega	80 38.1	N 38 48.3	
		Sol			Luna							
Día		Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase		
		m s	m s		h m							
16		14 16	14 22	0.9	11 46		2.7	8				
17		14 29	14 35	0.9	11 45		3.7	14				

Tabla G. Domingo 18 de octubre – lunes 19 de octubre de 2015.

Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas			
		GHA	GHA	Dec.	Nombre	SHA	Dec.									
18	h	° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m							
	0	26 10.0	183 40.3	S 9 25.0	N 60	5 41	6 48	16 41	17 47	Achernar	335 25.2	S 57 9.4				
	1	41 12.5	198 40.4	S 9 25.9	N 55	5 38	6 37	16 52	17 50	Acrux	173 8.1	S 63 11.0				
	2	56 15.0	213 40.5	S 9 26.8	N 50	5 36	6 28	17 1	17 53	Adhara	255 11.2	S 28 59.6				
	3	71 17.4	228 40.6	S 9 27.7	N 45	5 33	6 20	17 9	17 56	Aldebaran	290 47.3	N 16 32.4				
	4	86 19.9	243 40.8	S 9 28.7	N 40	5 31	6 14	17 15	17 58	Alioth	166 20.0	N 55 52.5				
	5	101 22.4	258 40.9	S 9 29.6	N 35	5 28	6 9	17 21	18 1	Alkaid	152 58.2	N 49 14.2				
	6	116 24.8	273 41.0	S 9 30.5	N 30	5 26	6 4	17 25	18 4	Alnair	27 41.6	S 26 53.0				
	7	131 27.3	288 41.1	S 9 31.4	N 25	5 23	6 0	17 30	18 6	Alnilam	275 44.6	S 1 11.6				
	8	146 29.8	303 41.3	S 9 32.3	N 20	5 21	5 56	17 34	18 9	Alphard	217 54.7	S 8 43.6				
	9	161 32.2	318 41.4	S 9 33.2	N 15	5 18	5 52	17 37	18 12	Alpheratz	357 41.5	N 29 10.9				
	10	176 34.7	333 41.5	S 9 34.1	N 14	5 17	5 52	17 38	18 12	Altair	62 6.8	N 8 54.9				
	11	191 37.1	348 41.6	S 9 35.0	N 13	5 17	5 51	17 39	18 13	Antares	112 24.6	S 26 27.8				
	12	206 39.6	3 41.7	S 9 35.9	N 12	5 16	5 50	17 40	18 14	Arcturus	145 54.4	N 19 6.8				
	13	221 42.1	18 41.9	S 9 36.8	N 11	5 16	5 49	17 40	18 14	Atria	107 25.3	S 69 3.3				
	14	236 44.5	33 42.0	S 9 37.8	N 10	5 15	5 49	17 41	18 15	Avior	234 17.4	S 59 33.4				
	15	251 47.0	48 42.1	S 9 38.7	N 9	5 14	5 48	17 42	18 15	Bellatrix	278 30.1	N 6 21.7				
	16	266 49.5	63 42.2	S 9 39.6	N 8	5 14	5 47	17 43	18 16	Betelgeuse	270 59.5	N 7 24.5				
	17	281 51.9	78 42.3	S 9 40.5	N 7	5 13	5 47	17 43	18 17	Canopus	263 55.3	S 52 42.1				
	18	296 54.4	93 42.5	S 9 41.4	N 6	5 13	5 46	17 44	18 17	Capella	280 31.9	N 46 0.6				
	19	311 56.9	108 42.6	S 9 42.3	N 5	5 12	5 45	17 45	18 18	Deneb	49 30.3	N 45 20.7				
	20	326 59.3	123 42.7	S 9 43.2	N 4	5 11	5 44	17 45	18 19	Denebola	182 32.2	N 14 29.1				
	21	342 1.8	138 42.8	S 9 44.1	N 3	5 11	5 44	17 46	18 19	Dubhe	193 50.4	N 61 39.8				
22	357 4.2	153 42.9	S 9 45.0	N 2	5 10	5 43	17 47	18 20	Elnath	278 10.4	N 28 37.0					
23	12 6.7	168 43.1	S 9 45.9	N 1	5 9	5 42	17 48	18 21	Eltanin	90 45.6	N 51 29.7					
19	0	27 9.2	183 43.2	S 9 46.8	S 1	5 8	5 41	17 49	18 22	Enif	33 45.4	N 9 57.1				
	1	42 11.6	198 43.3	S 9 47.7	S 2	5 7	5 40	17 50	18 23	Formalhaut	15 22.1	S 29 32.2				
	2	57 14.1	213 43.4	S 9 48.6	S 3	5 6	5 40	17 50	18 24	Gacrux	171 59.6	S 57 11.8				
	3	72 16.6	228 43.5	S 9 49.5	S 4	5 6	5 39	17 51	18 24	Hadar	148 46.2	S 60 26.8				
	4	87 19.0	243 43.7	S 9 50.4	S 5	5 5	5 38	17 52	18 25	Hamal	327 58.7	N 23 32.2				
	5	102 21.5	258 43.8	S 9 51.4	S 6	5 4	5 38	17 53	18 26	Kaus Aust	83 41.9	S 34 22.4				
	6	117 24.0	273 43.9	S 9 52.3	S 7	5 3	5 37	17 53	18 27	Kochab	137 21.4	N 74 5.7				
	7	132 26.4	288 44.0	S 9 53.2	S 8	5 2	5 36	17 54	18 28	Markab	13 36.5	N 15 17.6				
	8	147 28.9	303 44.1	S 9 54.1	S 9	5 1	5 35	17 55	18 29	Menkent	148 5.9	S 36 26.5				
	9	162 31.4	318 44.2	S 9 55.0	S 10	5 1	5 35	17 55	18 29	Miaplacidu	221 39.4	S 69 46.7				
	10	177 33.8	333 44.4	S 9 55.9	S 11	5 0	5 34	17 56	18 30	Mirfak	308 37.6	N 49 54.8				
	11	192 36.3	348 44.5	S 9 56.8	S 12	4 59	5 33	17 57	18 31	Nunki	75 56.5	S 26 16.4				
	12	207 38.7	3 44.6	S 9 57.7	S 13	4 58	5 32	17 58	18 32	Peacock	53 16.8	S 56 41.0				
	13	222 41.2	18 44.7	S 9 58.6	S 14	4 57	5 32	17 58	18 33	Pollux	243 25.7	N 27 59.0				
	14	237 43.7	33 44.8	S 9 59.5	S 15	4 56	5 31	17 59	18 34	Procyon	244 57.9	N 5 11.2				
	15	252 46.1	48 44.9	S 10 0.4	S 20	4 51	5 27	18 3	18 39	Rasalhague	96 5.2	N 12 33.4				
	16	267 48.6	63 45.0	S 10 1.3	S 25	4 46	5 23	18 8	18 45	Regulus	207 42.0	N 11 53.4				
	17	282 51.1	78 45.2	S 10 2.2	S 30	4 39	5 18	18 12	18 51	Rigel	281 10.4	S 8 11.1				
	18	297 53.5	93 45.3	S 10 3.1	S 35	4 32	5 13	18 18	18 59	Rigel Kent	139 48.2	S 60 54.1				
	19	312 56.0	108 45.4	S 10 4.0	S 40	4 22	5 7	18 24	19 8	Schedar	349 38.1	N 56 37.5				
	20	327 58.5	123 45.5	S 10 4.9	S 45	4 11	5 0	18 31	19 20	Shaula	96 20.0	S 37 6.7				
	21	343 0.9	138 45.6	S 10 5.8	S 50	3 57	4 52	18 39	19 34	Sirius	258 32.1	S 16 43.9				
	22	358 3.4	153 45.7	S 10 6.7	S 55	3 39	4 42	18 50	19 53	Spica	158 29.9	S 11 14.4				
23	13 5.9	168 45.8	S 10 7.6	S 60	3 13	4 28	19 3	20 20	Vega	80 38.1	N 38 48.3					
Día	Sol				Luna											
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día	Porcentaje de iluminación		Fase								
18	m s	m s		h m												
19	14 41	14 47	0.9	11 45	4.7		22									
	14 53	14 58	0.9	11 45	5.7		31									



Tabla G. Martes 20 de octubre – miércoles 21 de octubre de 2015.


Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
20	h	° /	° /	° /	°	h m	h m	h m	h m	Nombre	° /	° /			
	0	28 8.3	183 46.0	S 10 8.5	N 60	5 46	6 53	16 35	17 42	Achernar	335 25.2	S 57 9.4			
	1	43 10.8	198 46.1	S 10 9.4	N 55	5 42	6 41	16 48	17 46	Acrux	173 8.0	S 63 11.0			
	2	58 13.2	213 46.2	S 10 10.3	N 50	5 39	6 31	16 58	17 49	Adhara	255 11.2	S 28 59.6			
	3	73 15.7	228 46.3	S 10 11.2	N 45	5 36	6 23	17 6	17 53	Aldebaran	290 47.3	N 16 32.4			
	4	88 18.2	243 46.4	S 10 12.1	N 40	5 33	6 16	17 12	17 56	Alioth	166 20.0	N 55 52.5			
	5	103 20.6	258 46.5	S 10 13.0	N 35	5 30	6 11	17 18	17 59	Alkaid	152 58.2	N 49 14.2			
	6	118 23.1	273 46.6	S 10 13.9	N 30	5 27	6 6	17 23	18 2	Alnair	27 41.6	S 46 53.0			
	7	133 25.6	288 46.7	S 10 14.8	N 25	5 24	6 1	17 28	18 5	Alnilam	275 44.6	S 1 11.6			
	8	148 28.0	303 46.8	S 10 15.7	N 20	5 21	5 57	17 32	18 8	Alphard	217 54.7	S 8 43.6			
	9	163 30.5	318 47.0	S 10 16.6	N 15	5 18	5 53	17 36	18 11	Alpheratz	357 41.5	N 29 10.9			
	10	178 33.0	333 47.1	S 10 17.5	N 14	5 18	5 52	17 37	18 11	Altair	62 6.8	N 8 54.9			
	11	193 35.4	348 47.2	S 10 18.4	N 13	5 17	5 51	17 38	18 12	Antares	112 24.6	S 26 27.8			
	12	208 37.9	3 47.3	S 10 19.3	N 12	5 16	5 50	17 39	18 13	Arcturus	145 54.4	N 19 6.8			
	13	223 40.3	18 47.4	S 10 20.2	N 11	5 16	5 50	17 39	18 13	Atria	107 25.3	S 69 3.3			
	14	238 42.8	33 47.5	S 10 21.1	N 10	5 15	5 49	17 40	18 14	Avior	234 17.4	S 59 33.4			
	15	253 45.3	48 47.6	S 10 22.0	N 9	5 14	5 48	17 41	18 15	Bellatrix	278 30.1	N 6 21.7			
	16	268 47.7	63 47.7	S 10 22.9	N 8	5 14	5 47	17 42	18 15	Betelgeuse	270 59.4	N 7 24.5			
	17	283 50.2	78 47.8	S 10 23.8	N 7	5 13	5 47	17 43	18 16	Canopus	263 55.2	S 52 42.1			
	18	298 52.7	93 47.9	S 10 24.6	N 6	5 12	5 46	17 43	18 17	Capella	280 31.8	N 46 0.6			
	19	313 55.1	108 48.0	S 10 25.5	N 5	5 12	5 45	17 44	18 18	Deneb	49 30.3	N 45 20.7			
	20	328 57.6	123 48.1	S 10 26.4	N 4	5 11	5 44	17 45	18 18	Denebola	182 32.2	N 14 29.1			
	21	344 0.1	138 48.2	S 10 27.3	N 3	5 10	5 44	17 46	18 19	Dubhe	193 50.4	N 61 39.8			
22	359 2.5	153 48.4	S 10 28.2	N 2	5 10	5 43	17 46	18 20	Elnath	278 10.4	N 28 37.0				
23	14 5.0	168 48.5	S 10 29.1	N 1	5 9	5 42	17 47	18 20	Eltanin	90 45.7	N 51 29.7				
21	0	29 7.5	183 48.6	S 10 30.0	S 1	5 7	5 41	17 48	18 21	Enif	33 45.4	N 9 57.1			
	1	44 9.9	198 48.7	S 10 30.9	S 2	5 7	5 40	17 49	18 23	Formalhaut	15 22.1	S 29 32.2			
	2	59 12.4	213 48.8	S 10 31.8	S 3	5 6	5 39	17 50	18 24	Gacrux	171 59.6	S 57 11.8			
	3	74 14.8	228 48.9	S 10 32.7	S 4	5 5	5 38	17 51	18 24	Hadar	148 46.2	S 60 26.8			
	4	89 17.3	243 49.0	S 10 33.6	S 5	5 4	5 38	17 52	18 25	Hamal	327 58.7	N 23 32.2			
	5	104 19.8	258 49.1	S 10 34.5	S 6	5 3	5 37	17 52	18 26	Kaus Aust	83 41.9	S 34 22.4			
	6	119 22.2	273 49.2	S 10 35.4	S 7	5 2	5 36	17 53	18 27	Kochab	137 21.4	N 74 5.7			
	7	134 24.7	288 49.3	S 10 36.3	S 8	5 2	5 35	17 54	18 28	Markab	13 36.5	N 15 17.6			
	8	149 27.2	303 49.4	S 10 37.2	S 9	5 1	5 34	17 55	18 29	Menkent	148 5.9	S 36 26.5			
	9	164 29.6	318 49.5	S 10 38.0	S 10	5 0	5 34	17 56	18 30	Miaplacidu	221 39.4	S 69 46.7			
	10	179 32.1	333 49.6	S 10 38.9	S 11	4 59	5 33	17 56	18 31	Mirfak	308 37.6	N 49 54.8			
	11	194 34.6	348 49.7	S 10 39.8	S 12	4 58	5 32	17 57	18 31	Nunki	75 56.5	S 26 16.4			
	12	209 37.0	3 49.8	S 10 40.7	S 13	4 57	5 31	17 58	18 32	Peacock	53 16.8	S 56 41.0			
	13	224 39.5	18 49.9	S 10 41.6	S 14	4 56	5 31	17 59	18 33	Pollux	243 25.6	N 27 59.0			
	14	239 42.0	33 50.0	S 10 42.5	S 15	4 55	5 30	18 0	18 34	Procyon	244 57.9	N 5 11.2			
	15	254 44.4	48 50.1	S 10 43.4	S 20	4 50	5 26	18 4	18 40	Rasalhague	96 5.2	N 12 33.4			
	16	269 46.9	63 50.2	S 10 44.3	S 25	4 44	5 21	18 9	18 46	Regulus	207 42.0	N 11 53.4			
	17	284 49.3	78 50.3	S 10 45.2	S 30	4 37	5 16	18 14	18 53	Rigel	281 10.3	S 8 11.1			
	18	299 51.8	93 50.4	S 10 46.1	S 35	4 29	5 11	18 19	19 1	Rigel Kent	139 48.2	S 60 54.1			
	19	314 54.3	108 50.5	S 10 46.9	S 40	4 19	5 4	18 26	19 11	Schedar	349 38.1	N 56 37.6			
	20	329 56.7	123 50.6	S 10 47.8	S 45	4 7	4 57	18 33	19 23	Shaula	96 20.0	S 37 6.7			
	21	344 59.2	138 50.7	S 10 48.7	S 50	3 53	4 48	18 42	19 38	Sirius	258 32.1	S 16 44.0			
	22	0 1.7	153 50.8	S 10 49.6	S 55	3 33	4 37	18 54	19 58	Spica	158 29.9	N 11 14.4			
23	15 4.1	168 50.9	S 10 50.5	S 60	3 5	4 22	19 9	20 26	Vega	80 38.1	N 38 48.3				
Día	Sol						Luna								
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase						
20	m s	m s		h m											
21	15 4	15 9	0.9	11 45		6.7	41								
21	15 14	15 19	0.9	11 45		7.8	51								

Tabla G. Jueves 22 de octubre – viernes 23 de octubre de 2015.


Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
		° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m	h m	h m	° / ' / "	° / ' / "		
22	0	30 6.6	183 51.0	S 10 51.4	N 60	5 50	6 58	16 29	17 37	Achernar	335 25.2	S 57 9.4			
	1	45 9.1	198 51.1	S 10 52.3	N 55	5 46	6 45	16 43	17 42	Acruz	173 8.0	S 63 11.0			
	2	60 11.5	213 51.2	S 10 53.1	N 50	5 42	6 34	16 54	17 46	Alhara	255 11.2	S 28 59.6			
	3	75 14.0	228 51.3	S 10 54.0	N 45	5 38	6 26	17 2	17 50	Aldebaran	290 47.3	N 16 32.4			
	4	90 16.4	243 51.4	S 10 54.9	N 40	5 35	6 19	17 10	17 53	Alioth	166 20.0	N 55 52.5			
	5	105 18.9	258 51.5	S 10 55.8	N 35	5 32	6 12	17 16	17 56	Alkaid	152 58.2	N 49 14.2			
	6	120 21.4	273 51.6	S 10 56.7	N 30	5 29	6 7	17 21	18 0	Alnair	27 41.6	S 46 53.0			
	7	135 23.8	288 51.7	S 10 57.6	N 25	5 25	6 2	17 26	18 3	Alnilam	275 44.6	S 1 11.6			
	8	150 26.3	303 51.8	S 10 58.5	N 20	5 22	5 57	17 31	18 6	Alphard	217 54.6	S 8 43.6			
	9	165 28.8	318 51.9	S 10 59.3	N 15	5 19	5 53	17 35	18 10	Alpheratz	357 41.5	N 29 10.9			
	10	180 31.2	333 52.0	S 11 0.2	N 14	5 18	5 52	17 36	18 10	Altair	62 6.9	N 8 54.9			
	11	195 33.7	348 52.1	S 11 1.1	N 13	5 17	5 52	17 37	18 11	Antares	112 24.6	S 26 27.8			
	12	210 36.2	3 52.2	S 11 2.0	N 12	5 17	5 51	17 38	18 12	Arcturus	145 54.4	N 19 6.8			
	13	225 38.6	18 52.3	S 11 2.9	N 11	5 16	5 50	17 39	18 13	Atria	107 25.3	S 69 3.3			
	14	240 41.1	33 52.4	S 11 3.8	N 10	5 15	5 49	17 39	18 13	Avior	234 17.3	S 59 33.4			
	15	255 43.6	48 52.5	S 11 4.6	N 9	5 14	5 48	17 40	18 14	Bellatrix	278 30.1	N 6 21.7			
	16	270 46.0	63 52.6	S 11 5.5	N 8	5 14	5 47	17 41	18 15	Betelgeuse	270 59.4	N 7 24.5			
	17	285 48.5	78 52.7	S 11 6.4	N 7	5 13	5 47	17 42	18 16	Canopus	263 55.2	S 52 42.1			
	18	300 50.9	93 52.8	S 11 7.3	N 6	5 12	5 46	17 43	18 16	Capella	280 31.8	N 46 0.6			
	19	315 53.4	108 52.9	S 11 8.2	N 5	5 12	5 45	17 44	18 17	Deneb	49 30.3	N 45 20.7			
	20	330 55.9	123 52.9	S 11 9.1	N 4	5 11	5 44	17 44	18 18	Denebola	182 32.2	N 14 29.1			
	21	345 58.3	138 53.0	S 11 9.9	N 3	5 10	5 43	17 45	18 19	Dubhe	193 50.3	N 61 39.8			
	22	1 0.8	153 53.1	S 11 10.8	N 2	5 9	5 43	17 46	18 19	Elnath	278 10.4	N 28 37.0			
23	16 3.3	168 53.2	S 11 11.7	N 1	5 8	5 42	17 47	18 20	Eltanin	90 45.7	N 51 29.7				
23	0	31 5.7	183 53.3	S 11 12.6	S 1	5 7	5 40	17 48	18 21	Enif	33 45.4	N 9 57.1			
	1	46 8.2	198 53.4	S 11 13.5	S 2	5 6	5 39	17 49	18 22	Formalhaut	15 22.1	S 29 32.2			
	2	61 10.7	213 53.5	S 11 14.3	S 3	5 5	5 39	17 50	18 24	Gacrux	171 59.6	S 57 11.8			
	3	76 13.1	228 53.6	S 11 15.2	S 4	5 4	5 38	17 51	18 24	Hadar	148 46.1	S 60 26.8			
	4	91 15.6	243 53.7	S 11 16.1	S 5	5 3	5 37	17 52	18 25	Hamal	327 58.7	N 23 32.2			
	5	106 18.1	258 53.8	S 11 17.0	S 6	5 3	5 36	17 53	18 26	Kaus Aust	83 41.9	S 34 22.4			
	6	121 20.5	273 53.9	S 11 17.9	S 7	5 2	5 35	17 53	18 27	Kochab	137 21.4	N 74 5.6			
	7	136 23.0	288 54.0	S 11 18.7	S 8	5 1	5 35	17 54	18 28	Markab	13 36.5	N 15 17.6			
	8	151 25.4	303 54.0	S 11 19.6	S 9	5 0	5 34	17 55	18 29	Menkent	148 5.9	S 36 26.5			
	9	166 27.9	318 54.1	S 11 20.5	S 10	4 59	5 33	17 56	18 30	Miaplacidu	221 39.3	S 69 46.7			
	10	181 30.4	333 54.2	S 11 21.4	S 11	4 58	5 32	17 57	18 31	Mirfak	308 37.6	N 49 54.8			
	11	196 32.8	348 54.3	S 11 22.2	S 12	4 57	5 31	17 58	18 32	Nunki	75 56.5	S 26 16.4			
	12	211 35.3	3 54.4	S 11 23.1	S 13	4 56	5 30	17 58	18 33	Peacock	53 16.8	S 56 41.0			
	13	226 37.8	18 54.5	S 11 24.0	S 14	4 55	5 30	17 59	18 34	Pollux	243 25.6	N 27 59.0			
	14	241 40.2	33 54.6	S 11 24.9	S 15	4 54	5 29	18 0	18 35	Procyon	244 57.9	N 5 11.2			
	15	256 42.7	48 54.7	S 11 25.7	S 20	4 48	5 24	18 5	18 41	Rasalhague	96 5.2	N 12 33.4			
	16	271 45.2	63 54.8	S 11 26.6	S 25	4 42	5 19	18 10	18 47	Regulus	207 42.0	N 11 53.4			
	17	286 47.6	78 54.8	S 11 27.5	S 30	4 35	5 14	18 15	18 54	Rigel	281 10.3	S 8 11.1			
	18	301 50.1	93 54.9	S 11 28.4	S 35	4 26	5 8	18 21	19 3	Rigel Kent	139 48.2	S 60 54.1			
	19	316 52.5	108 55.0	S 11 29.2	S 40	4 16	5 1	18 28	19 13	Schedar	349 38.1	N 56 37.6			
	20	331 55.0	123 55.1	S 11 30.1	S 45	4 4	4 54	18 36	19 26	Shaula	96 20.0	S 37 6.7			
	21	346 57.5	138 55.2	S 11 31.0	S 50	3 48	4 44	18 46	19 42	Sirius	258 32.1	S 16 44.0			
	22	1 59.9	153 55.3	S 11 31.9	S 55	3 27	4 32	18 58	20 3	Spica	158 29.9	S 11 14.4			
23	17 2.4	168 55.4	S 11 32.7	S 60	2 58	4 16	19 14	20 33	Vega	80 38.1	N 38 48.3				
		Sol			Luna										
Día	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día	Porcentaje de iluminación		Fase							
	m s	m s		h m											
22	15 24	15 29	0.9	11 45	8.8	62									
23	15 33	15 38	0.9	11 44	9.9	73									

Tabla G. Sábado 24 de octubre – domingo 25 de octubre de 2015.


Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
	h	° /	° /	° /	°	h m	h m	h m	h m	h m	h m		° /	° /	
24	0	32 4.9	183 55.4	S 11 33.6	N 60	5 55	7 3	16 24	17 32	Achernar	335 25.2	S 57 9.5			
	1	47 7.3	198 55.5	S 11 34.5	N 55	5 50	6 49	16 39	17 37	Acrux	173 8.0	S 63 11.0			
	2	62 9.8	213 55.6	S 11 35.4	N 50	5 45	6 37	16 50	17 42	Adhara	255 11.2	S 28 59.6			
	3	77 12.3	228 55.7	S 11 36.2	N 45	5 41	6 28	16 59	17 47	Aldebaran	290 47.3	N 16 32.4			
	4	92 14.7	243 55.8	S 11 37.1	N 40	5 37	6 21	17 7	17 50	Alioth	166 20.0	N 55 52.5			
	5	107 17.2	258 55.9	S 11 38.0	N 35	5 33	6 14	17 13	17 54	Alkaid	152 58.2	N 49 14.2			
	6	122 19.7	273 56.0	S 11 38.8	N 30	5 30	6 8	17 19	17 58	Alnair	27 41.7	S 46 53.1			
	7	137 22.1	288 56.0	S 11 39.7	N 25	5 26	6 3	17 25	18 1	Alnilam	275 44.6	S 1 11.6			
	8	152 24.6	303 56.1	S 11 40.6	N 20	5 23	5 58	17 30	18 5	Alphard	217 54.6	S 8 43.6			
	9	167 27.0	318 56.2	S 11 41.4	N 15	5 19	5 54	17 34	18 9	Alpheratz	357 41.5	N 29 10.9			
	10	182 29.5	333 56.3	S 11 42.3	N 14	5 18	5 53	17 35	18 10	Altair	62 6.9	N 8 54.9			
	11	197 32.0	348 56.4	S 11 43.2	N 13	5 18	5 52	17 36	18 10	Antares	112 24.6	S 26 27.8			
	12	212 34.4	3 56.4	S 11 44.1	N 12	5 17	5 51	17 37	18 11	Arcturus	145 54.4	N 19 6.8			
	13	227 36.9	18 56.5	S 11 44.9	N 11	5 16	5 50	17 38	18 12	Atria	107 25.4	S 69 3.3			
	14	242 39.4	33 56.6	S 11 45.8	N 10	5 15	5 49	17 39	18 13	Avior	234 17.3	S 59 33.4			
	15	257 41.8	48 56.7	S 11 46.7	N 9	5 15	5 48	17 40	18 13	Bellatrix	278 30.1	N 6 21.7			
	16	272 44.3	63 56.8	S 11 47.5	N 8	5 14	5 48	17 40	18 14	Betelgeuse	270 59.4	N 7 24.5			
	17	287 46.8	78 56.9	S 11 48.4	N 7	5 13	5 47	17 41	18 15	Canopus	263 55.2	S 52 42.1			
	18	302 49.2	93 56.9	S 11 49.3	N 6	5 12	5 46	17 42	18 16	Capella	280 31.8	N 46 0.6			
	19	317 51.7	108 57.0	S 11 50.1	N 5	5 11	5 45	17 43	18 17	Deneb	49 30.3	N 45 20.7			
	20	332 54.2	123 57.1	S 11 51.0	N 4	5 11	5 44	17 44	18 17	Denebola	182 32.2	N 14 29.1			
	21	347 56.6	138 57.2	S 11 51.9	N 3	5 10	5 43	17 45	18 18	Dubhe	193 50.3	N 61 39.8			
	22	2 59.1	153 57.2	S 11 52.7	N 2	5 9	5 42	17 46	18 19	Elnath	278 10.4	N 28 37.0			
23	18 1.5	168 57.3	S 11 53.6	N 1	5 8	5 42	17 46	18 20	Eltanin	90 45.7	N 51 29.7				
25	0	33 4.0	183 57.4	S 11 54.5	S 1	5 6	5 40	17 48	18 22	Enif	33 45.4	N 9 57.1			
	1	48 6.5	198 57.5	S 11 55.3	S 2	5 6	5 39	17 49	18 23	Formalhaut	15 22.1	S 29 32.2			
	2	63 8.9	213 57.6	S 11 56.2	S 3	5 5	5 38	17 50	18 24	Gacrux	171 59.6	S 57 11.8			
	3	78 11.4	228 57.6	S 11 57.1	S 4	5 4	5 37	17 51	18 24	Hadar	148 46.1	S 60 26.8			
	4	93 13.9	243 57.7	S 11 57.9	S 5	5 3	5 36	17 52	18 25	Hamal	327 58.6	N 23 32.3			
	5	108 16.3	258 57.8	S 11 58.8	S 6	5 2	5 36	17 53	18 26	Kaus Aust	83 41.9	S 34 22.4			
	6	123 18.8	273 57.9	S 11 59.6	S 7	5 1	5 35	17 53	18 27	Kochab	137 21.4	N 74 5.6			
	7	138 21.3	288 57.9	S 12 0.5	S 8	5 0	5 34	17 54	18 28	Markab	13 36.5	N 15 17.6			
	8	153 23.7	303 58.0	S 12 1.4	S 9	4 59	5 33	17 55	18 29	Menkent	148 5.9	S 36 26.5			
	9	168 26.2	318 58.1	S 12 2.2	S 10	4 58	5 32	17 56	18 30	Miaplacidu	221 39.3	S 69 46.7			
	10	183 28.7	333 58.2	S 12 3.1	S 11	4 57	5 31	17 57	18 31	Mirfak	308 37.6	N 49 54.9			
	11	198 31.1	348 58.2	S 12 4.0	S 12	4 56	5 30	17 58	18 32	Nunki	75 56.5	S 26 16.4			
	12	213 33.6	3 58.3	S 12 4.8	S 13	4 55	5 29	17 59	18 33	Peacock	53 16.8	S 56 41.1			
	13	228 36.0	18 58.4	S 12 5.7	S 14	4 54	5 29	18 0	18 35	Pollux	243 25.6	N 27 59.0			
	14	243 38.5	33 58.5	S 12 6.5	S 15	4 53	5 28	18 1	18 36	Procyon	244 57.9	N 5 11.2			
	15	258 41.0	48 58.5	S 12 7.4	S 20	4 47	5 23	18 6	18 42	Rasalhague	96 5.2	N 12 33.3			
	16	273 43.4	63 58.6	S 12 8.3	S 25	4 40	5 18	18 11	18 48	Regulus	207 42.0	N 11 53.4			
	17	288 45.9	78 58.7	S 12 9.1	S 30	4 33	5 12	18 17	18 56	Rigel	281 10.3	S 8 11.1			
	18	303 48.4	93 58.8	S 12 10.0	S 35	4 24	5 6	18 23	19 5	Rigel Kent	139 48.2	S 60 54.1			
	19	318 50.8	108 58.8	S 12 10.8	S 40	4 13	4 59	18 30	19 16	Schedar	349 38.1	N 56 37.6			
	20	333 53.3	123 58.9	S 12 11.7	S 45	4 0	4 50	18 39	19 29	Shaula	96 20.0	S 37 6.7			
	21	348 55.8	138 59.0	S 12 12.6	S 50	3 44	4 40	18 49	19 46	Sirius	258 32.1	S 16 44.0			
	22	3 58.2	153 59.0	S 12 13.4	S 55	3 22	4 27	19 2	20 8	Spica	158 29.9	S 11 14.4			
23	19 0.7	168 59.1	S 12 14.3	S 60	2 51	4 11	19 19	20 40	Vega	80 38.1	N 38 48.3				
Día	Sol						Luna								
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase						
24	m s	m s		h m											
25	15 42	15 46	0.9	11 44		11.0	82								
	15 50	15 53	0.9	11 44		12.1	90								

Tabla G. Lunes 26 de octubre – martes 27 de octubre de 2015.


Día	TU	Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		Aries	Sol							Nombre	SHA	Dec.
		GHA	GHA	Dec.		h m	h m	h m	h m		° / ' / "	° / ' / "
26	h	° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m	Nombre	° / ' / "	° / ' / "
	0	34 3.1	183 59.2	S 12 15.1	N 60	6 0	7 9	16 18	17 27	Achernar	335 25.2	S 57 9.5
	1	49 5.6	198 59.3	S 12 16.0	N 55	5 53	6 53	16 34	17 33	Acrux	173 8.0	S 63 11.0
	2	64 8.1	213 59.3	S 12 16.8	N 50	5 48	6 41	16 46	17 39	Alhara	255 11.2	S 28 59.6
	3	79 10.5	228 59.4	S 12 17.7	N 45	5 43	6 31	16 56	17 44	Aldebaran	290 47.3	N 16 32.4
	4	94 13.0	243 59.5	S 12 18.6	N 40	5 39	6 23	17 4	17 48	Alioth	166 20.0	N 55 52.5
	5	109 15.5	258 59.5	S 12 19.4	N 35	5 35	6 16	17 11	17 52	Alkaid	152 58.2	N 49 14.2
	6	124 17.9	273 59.6	S 12 20.3	N 30	5 31	6 10	17 17	17 56	Alnair	27 41.7	S 46 53.1
	7	139 20.4	288 59.7	S 12 21.1	N 25	5 27	6 4	17 23	18 0	Alnilam	275 44.6	S 1 11.6
	8	154 22.9	303 59.7	S 12 22.0	N 20	5 23	5 59	17 28	18 4	Alphard	217 54.6	S 8 43.6
	9	169 25.3	318 59.8	S 12 22.8	N 15	5 20	5 54	17 33	18 8	Alpheratz	357 41.5	N 29 10.9
	10	184 27.8	333 59.9	S 12 23.7	N 14	5 19	5 53	17 34	18 9	Altair	62 6.9	N 8 54.9
	11	199 30.3	348 59.9	S 12 24.5	N 13	5 18	5 52	17 35	18 10	Antares	112 24.6	S 26 27.8
	12	214 32.7	4 0.0	S 12 25.4	N 12	5 17	5 51	17 36	18 10	Arcturus	145 54.4	N 19 6.8
	13	229 35.2	19 0.1	S 12 26.3	N 11	5 16	5 50	17 37	18 11	Atria	107 25.4	S 69 3.3
	14	244 37.6	34 0.1	S 12 27.1	N 10	5 16	5 50	17 38	18 12	Avior	234 17.3	S 59 33.4
	15	259 40.1	49 0.2	S 12 28.0	N 9	5 15	5 49	17 39	18 13	Bellatrix	278 30.1	N 6 21.7
	16	274 42.6	64 0.3	S 12 28.8	N 8	5 14	5 48	17 40	18 14	Betelgeuse	270 59.4	N 7 24.5
	17	289 45.0	79 0.3	S 12 29.7	N 7	5 13	5 47	17 41	18 15	Canopus	263 55.2	S 52 42.2
	18	304 47.5	94 0.4	S 12 30.5	N 6	5 12	5 46	17 42	18 15	Capella	280 31.8	N 46 0.6
	19	319 50.0	109 0.5	S 12 31.4	N 5	5 11	5 45	17 43	18 16	Deneb	49 30.3	N 45 20.7
	20	334 52.4	124 0.5	S 12 32.2	N 4	5 11	5 44	17 44	18 17	Denebola	182 32.2	N 14 29.1
	21	349 54.9	139 0.6	S 12 33.1	N 3	5 10	5 43	17 44	18 18	Dubhe	193 50.3	N 61 39.7
22	4 57.4	154 0.7	S 12 33.9	N 2	5 9	5 42	17 45	18 19	Elnath	278 10.4	N 28 37.0	
23	19 59.8	169 0.7	S 12 34.8	N 1	5 8	5 41	17 46	18 20	Eltanin	90 45.7	N 51 29.7	
27	0	35 2.3	184 0.8	S 12 35.6	S 1	5 6	5 40	17 48	18 22	Enif	33 45.5	N 9 57.1
	1	50 4.8	199 0.9	S 12 36.5	S 2	5 5	5 39	17 49	18 23	Formalhaut	15 22.2	S 29 32.2
	2	65 7.2	214 0.9	S 12 37.3	S 3	5 4	5 38	17 50	18 24	Gacrux	171 59.6	S 57 11.8
	3	80 9.7	229 1.0	S 12 38.2	S 4	5 3	5 37	17 51	18 25	Hadar	148 46.1	S 60 26.7
	4	95 12.1	244 1.0	S 12 39.0	S 5	5 2	5 36	17 52	18 26	Hamal	327 58.6	N 23 32.3
	5	110 14.6	259 1.1	S 12 39.9	S 6	5 1	5 35	17 53	18 27	Kaus Aust	83 41.9	S 34 22.4
	6	125 17.1	274 1.2	S 12 40.7	S 7	5 0	5 34	17 54	18 28	Kochab	137 21.4	N 74 5.6
	7	140 19.5	289 1.2	S 12 41.6	S 8	4 59	5 33	17 55	18 29	Markab	13 36.5	N 15 17.6
	8	155 22.0	304 1.3	S 12 42.4	S 9	4 58	5 32	17 56	18 30	Menkent	148 5.9	S 36 26.5
	9	170 24.5	319 1.3	S 12 43.2	S 10	4 57	5 31	17 56	18 31	Miaplacidu	221 39.3	S 69 46.7
	10	185 26.9	334 1.4	S 12 44.1	S 11	4 56	5 30	17 57	18 32	Mirfak	308 37.6	N 49 54.9
	11	200 29.4	349 1.5	S 12 44.9	S 12	4 55	5 30	17 58	18 33	Nunki	75 56.5	S 26 16.4
	12	215 31.9	4 1.5	S 12 45.8	S 13	4 54	5 29	17 59	18 34	Peacock	53 16.8	S 56 41.1
	13	230 34.3	19 1.6	S 12 46.6	S 14	4 53	5 28	18 0	18 35	Pollux	243 25.6	N 27 59.0
	14	245 36.8	34 1.6	S 12 47.5	S 15	4 52	5 27	18 1	18 36	Procyon	244 57.8	N 5 11.2
	15	260 39.2	49 1.7	S 12 48.3	S 20	4 45	5 22	18 6	18 43	Rasalhague	96 5.2	N 12 33.3
	16	275 41.7	64 1.8	S 12 49.2	S 25	4 38	5 16	18 12	18 50	Regulus	207 41.9	N 11 53.4
	17	290 44.2	79 1.8	S 12 50.0	S 30	4 30	5 10	18 18	18 58	Rigel	281 10.3	S 8 11.1
	18	305 46.6	94 1.9	S 12 50.9	S 35	4 21	5 4	18 25	19 7	Rigel Kent	139 48.2	S 60 54.0
	19	320 49.1	109 1.9	S 12 51.7	S 40	4 10	4 56	18 32	19 18	Schedar	349 38.1	N 56 37.6
	20	335 51.6	124 2.0	S 12 52.5	S 45	3 57	4 47	18 41	19 32	Shaula	96 20.0	S 37 6.7
	21	350 54.0	139 2.0	S 12 53.4	S 50	3 39	4 36	18 52	19 50	Sirius	258 32.0	S 16 44.0
	22	5 56.5	154 2.1	S 12 54.2	S 55	3 16	4 23	19 6	20 13	Spica	158 29.9	S 11 14.4
23	20 59.0	169 2.2	S 12 55.1	S 60	2 43	4 5	19 24	20 47	Vega	80 38.1	N 38 48.3	
Día		Sol			Luna							
		Ecuación del tiempo		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase		
		(00 ^h)	(12 ^h)		h m							
26		m s	m s									
27		15 57	16 0	0.8	11 44		13.2	96				
		16 3	16 6	0.8	11 44		14.3	99				

Tabla G. Miércoles 28 de octubre – jueves 29 de octubre de 2015.


Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
28	h	° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m	h m	h m	h m	° / ' / "	° / ' / "	° / ' / "
	0	36 1.4	184 2.2	S 12 55.9	N 60	6 4	7 14	16 13	17 22	17 22	17 22	17 22	Achernar	335 25.2	S 57 9.5
	1	51 3.9	199 2.3	S 12 56.7	N 55	5 57	6 57	16 30	17 29	17 29	17 29	17 29	Acrux	173 8.0	S 63 11.0
	2	66 6.4	214 2.3	S 12 57.6	N 50	5 51	6 44	16 43	17 35	17 35	17 35	17 35	Adhara	255 11.1	S 28 59.6
	3	81 8.8	229 2.4	S 12 58.4	N 45	5 46	6 34	16 53	17 41	17 41	17 41	17 41	Aldebaran	290 47.3	N 16 32.4
	4	96 11.3	244 2.4	S 12 59.3	N 40	5 41	6 25	17 2	17 46	17 46	17 46	17 46	Alioth	166 20.0	N 55 52.5
	5	111 13.7	259 2.5	S 13 0.1	N 35	5 37	6 18	17 9	17 50	17 50	17 50	17 50	Alkaid	152 58.2	N 49 14.2
	6	126 16.2	274 2.5	S 13 0.9	N 30	5 33	6 11	17 16	17 54	17 54	17 54	17 54	Alnair	27 11.7	S 46 53.1
	7	141 18.7	289 2.6	S 13 1.8	N 25	5 28	6 5	17 22	17 59	17 59	17 59	17 59	Alnilam	275 44.5	S 1 11.6
	8	156 21.1	304 2.6	S 13 2.6	N 20	5 24	6 0	17 27	18 3	18 3	18 3	18 3	Alphard	217 54.6	S 8 43.6
	9	171 23.6	319 2.7	S 13 3.5	N 15	5 20	5 55	17 32	18 7	18 7	18 7	18 7	Alpheratz	357 41.5	N 29 10.9
	10	186 26.1	334 2.7	S 13 4.3	N 14	5 19	5 54	17 33	18 8	18 8	18 8	18 8	Altair	62 6.9	N 8 54.9
	11	201 28.5	349 2.8	S 13 5.1	N 13	5 18	5 53	17 34	18 9	18 9	18 9	18 9	Antares	112 24.6	S 26 27.8
	12	216 31.0	4 2.9	S 13 6.0	N 12	5 18	5 52	17 35	18 10	18 10	18 10	18 10	Arcturus	145 54.4	N 19 6.8
	13	231 33.5	19 2.9	S 13 6.8	N 11	5 17	5 51	17 36	18 11	18 11	18 11	18 11	Atria	107 25.4	S 69 3.2
	14	246 35.9	34 3.0	S 13 7.6	N 10	5 16	5 50	17 37	18 11	18 11	18 11	18 11	Avior	234 17.3	S 59 33.4
	15	261 38.4	49 3.0	S 13 8.5	N 9	5 15	5 49	17 38	18 12	18 12	18 12	18 12	Bellatrix	278 30.1	N 6 21.7
	16	276 40.9	64 3.1	S 13 9.3	N 8	5 14	5 48	17 39	18 13	18 13	18 13	18 13	Betelgeuse	270 59.4	N 7 24.4
	17	291 43.3	79 3.1	S 13 10.2	N 7	5 13	5 47	17 40	18 14	18 14	18 14	18 14	Canopus	263 55.2	S 52 42.2
	18	306 45.8	94 3.2	S 13 11.0	N 6	5 12	5 46	17 41	18 15	18 15	18 15	18 15	Capella	280 31.8	N 46 0.6
	19	321 48.2	109 3.2	S 13 11.8	N 5	5 11	5 45	17 42	18 16	18 16	18 16	18 16	Deneb	49 30.3	N 45 20.7
	20	336 50.7	124 3.3	S 13 12.7	N 4	5 10	5 44	17 43	18 17	18 17	18 17	18 17	Denebola	182 32.2	N 14 29.1
	21	351 53.2	139 3.3	S 13 13.5	N 3	5 10	5 43	17 44	18 18	18 18	18 18	18 18	Dubhe	193 50.3	N 61 39.7
22	6 55.6	154 3.4	S 13 14.3	N 2	5 9	5 42	17 45	18 19	18 19	18 19	18 19	Elnath	278 10.4	N 28 37.0	
23	21 58.1	169 3.4	S 13 15.2	N 1	5 8	5 41	17 46	18 20	18 20	18 20	18 20	Eltanin	90 45.7	N 51 29.7	
				0	5 7	5 40	17 47	18 21	18 21	18 21	18 21				
29	0	37 0.6	184 3.4	S 13 16.0	S 1	5 6	5 39	17 48	18 22	18 22	18 22	18 22	Enif	33 45.5	N 9 57.1
	1	52 3.0	199 3.5	S 13 16.8	S 2	5 5	5 38	17 49	18 23	18 23	18 23	18 23	Formalhaut	15 22.2	S 29 32.2
	2	67 5.5	214 3.5	S 13 17.7	S 3	5 4	5 38	17 50	18 24	18 24	18 24	18 24	Gacrux	171 59.5	S 57 11.8
	3	82 8.0	229 3.6	S 13 18.5	S 4	5 3	5 37	17 51	18 25	18 25	18 25	18 25	Hadar	148 46.1	S 60 26.7
	4	97 10.4	244 3.6	S 13 19.3	S 5	5 2	5 36	17 52	18 26	18 26	18 26	18 26	Hamal	327 58.6	N 23 32.3
	5	112 12.9	259 3.7	S 13 20.2	S 6	5 1	5 35	17 53	18 27	18 27	18 27	18 27	Kaus Aust	83 41.9	S 34 22.4
	6	127 15.3	274 3.7	S 13 21.0	S 7	5 0	5 34	17 54	18 28	18 28	18 28	18 28	Kochab	137 21.4	N 74 5.6
	7	142 17.8	289 3.8	S 13 21.8	S 8	4 59	5 33	17 55	18 29	18 29	18 29	18 29	Markab	13 36.5	N 15 17.6
	8	157 20.3	304 3.8	S 13 22.6	S 9	4 57	5 32	17 56	18 30	18 30	18 30	18 30	Menkent	148 5.9	S 36 26.5
	9	172 22.7	319 3.9	S 13 23.5	S 10	4 56	5 31	17 57	18 31	18 31	18 31	18 31	Miaplacidu	221 39.2	S 69 46.7
	10	187 25.2	334 3.9	S 13 24.3	S 11	4 55	5 30	17 58	18 32	18 32	18 32	18 32	Mirfak	308 37.5	N 49 54.9
	11	202 27.7	349 3.9	S 13 25.1	S 12	4 54	5 29	17 59	18 33	18 33	18 33	18 33	Nunki	75 56.5	S 26 16.4
	12	217 30.1	4 4.0	S 13 26.0	S 13	4 53	5 28	18 0	18 35	18 35	18 35	18 35	Peacock	53 16.8	S 56 41.1
	13	232 32.6	19 4.0	S 13 26.8	S 14	4 52	5 27	18 1	18 36	18 36	18 36	18 36	Pollux	243 25.6	N 27 59.0
	14	247 35.1	34 4.1	S 13 27.6	S 15	4 51	5 26	18 2	18 37	18 37	18 37	18 37	Procyon	244 57.8	N 5 11.2
	15	262 37.5	49 4.1	S 13 28.4	S 20	4 44	5 20	18 7	18 44	18 44	18 44	18 44	Rasalhague	96 5.2	N 12 33.3
	16	277 40.0	64 4.2	S 13 29.3	S 25	4 37	5 15	18 13	18 51	18 51	18 51	18 51	Regulus	207 41.9	N 11 53.3
	17	292 42.5	79 4.2	S 13 30.1	S 30	4 28	5 8	18 19	18 59	18 59	18 59	18 59	Rigel	281 10.3	S 8 11.1
	18	307 44.9	94 4.2	S 13 30.9	S 35	4 19	5 1	18 27	19 9	19 9	19 9	19 9	Rigel Kent	139 48.2	S 60 54.0
	19	322 47.4	109 4.3	S 13 31.7	S 40	4 7	4 53	18 35	19 21	19 21	19 21	19 21	Schedar	349 38.1	N 56 37.6
	20	337 49.8	124 4.3	S 13 32.6	S 45	3 53	4 44	18 44	19 35	19 35	19 35	19 35	Shaula	96 20.0	S 37 6.7
	21	352 52.3	139 4.4	S 13 33.4	S 50	3 35	4 33	18 56	19 54	19 54	19 54	19 54	Sirius	258 32.0	S 16 44.0
	22	7 54.8	154 4.4	S 13 34.2	S 55	3 11	4 18	19 10	20 18	20 18	20 18	20 18	Spica	158 29.9	S 11 14.4
23	22 57.2	169 4.4	S 13 35.0	S 60	2 36	3 59	19 30	20 54	20 54	20 54	20 54	Vega	80 38.1	N 38 48.3	
		Sol						Luna							
Día	Ecuación del tiempo (00 ^h)		Corr. <i>d</i>	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase						
	m s	m s		h m											
28	16 9	16 11	0.8	11 44		15.4	99								
29	16 14	16 16	0.8	11 44		16.6	96								

Tabla G. Viernes 30 de octubre – sábado 31 de octubre de 2015.

Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas			
		GHA	GHA	Dec.	Nombre	SHA	Dec.									
30	h	° /	° /	° /	°	h m	h m	h m	h m							
	0	37 59.7	184 4.5	S 13 35.9	N 60	6 9	7 19	16 7	17 17	Achernar	335 25.2	S 57 9.5				
	1	53 2.2	199 4.5	S 13 36.7	N 55	6 1	7 1	16 25	17 25	Acruz	173 8.0	S 63 11.0				
	2	68 4.6	214 4.6	S 13 37.5	N 50	5 54	6 47	16 39	17 32	Adhara	255 11.1	S 28 59.6				
	3	83 7.1	229 4.6	S 13 38.3	N 45	5 48	6 37	16 50	17 38	Aldebaran	290 47.3	N 16 32.4				
	4	98 9.6	244 4.6	S 13 39.2	N 40	5 43	6 27	16 59	17 43	Alioth	166 20.0	N 55 52.4				
	5	113 12.0	259 4.7	S 13 40.0	N 35	5 38	6 20	17 7	17 48	Alkaid	152 58.2	N 49 14.2				
	6	128 14.5	274 4.7	S 13 40.8	N 30	5 34	6 13	17 14	17 53	Alnair	27 41.7	S 46 53.1				
	7	143 17.0	289 4.8	S 13 41.6	N 25	5 29	6 7	17 20	17 57	Alnilam	275 44.5	S 1 11.6				
	8	158 19.4	304 4.8	S 13 42.5	N 20	5 25	6 1	17 26	18 2	Alphard	217 54.6	S 8 43.6				
	9	173 21.9	319 4.8	S 13 43.3	N 15	5 21	5 55	17 32	18 6	Alpheratz	357 41.5	N 29 10.9				
	10	188 24.3	334 4.9	S 13 44.1	N 14	5 20	5 54	17 33	18 7	Altair	62 6.9	N 8 54.8				
	11	203 26.8	349 4.9	S 13 44.9	N 13	5 19	5 53	17 34	18 8	Antares	112 24.6	S 26 27.8				
	12	218 29.3	4 4.9	S 13 45.7	N 12	5 18	5 52	17 35	18 9	Arcturus	145 54.3	N 19 6.7				
	13	233 31.7	19 5.0	S 13 46.6	N 11	5 17	5 51	17 36	18 10	Atria	107 25.4	S 69 3.2				
	14	248 34.2	34 5.0	S 13 47.4	N 10	5 16	5 50	17 37	18 11	Avior	234 17.2	S 59 33.4				
	15	263 36.7	49 5.0	S 13 48.2	N 9	5 15	5 49	17 38	18 12	Bellatrix	278 30.1	N 6 21.7				
	16	278 39.1	64 5.1	S 13 49.0	N 8	5 14	5 48	17 39	18 13	Betelgeuse	270 59.4	N 7 24.4				
	17	293 41.6	79 5.1	S 13 49.8	N 7	5 13	5 47	17 40	18 14	Canopus	263 55.1	S 52 42.2				
	18	308 44.1	94 5.1	S 13 50.6	N 6	5 12	5 46	17 41	18 15	Capella	280 31.8	N 46 0.6				
	19	323 46.5	109 5.2	S 13 51.5	N 5	5 11	5 45	17 42	18 16	Deneb	49 30.3	N 45 20.7				
	20	338 49.0	124 5.2	S 13 52.3	N 4	5 10	5 44	17 43	18 17	Denebola	182 32.2	N 14 29.1				
	21	353 51.4	139 5.2	S 13 53.1	N 3	5 9	5 43	17 44	18 18	Dubhe	193 50.3	N 61 39.7				
22	8 53.9	154 5.3	S 13 53.9	N 2	5 8	5 42	17 45	18 19	Elnath	278 10.3	N 28 37.0					
23	23 56.4	169 5.3	S 13 54.7	N 1	5 7	5 41	17 46	18 20	Eltanin	90 45.7	N 51 29.7					
31	0	38 58.8	184 5.3	S 13 55.5	S 1	5 5	5 39	17 48	18 22	Enif	33 45.5	N 9 57.1				
	1	54 1.3	199 5.4	S 13 56.4	S 2	5 4	5 38	17 49	18 23	Formalhaut	15 22.2	S 29 32.2				
	2	69 3.8	214 5.4	S 13 57.2	S 3	5 3	5 37	17 50	18 24	Gacrux	171 59.5	S 57 11.8				
	3	84 6.2	229 5.4	S 13 58.0	S 4	5 2	5 36	17 51	18 25	Hadar	148 46.1	S 60 26.7				
	4	99 8.7	244 5.5	S 13 58.8	S 5	5 1	5 35	17 52	18 26	Hamal	327 58.6	N 23 32.3				
	5	114 11.2	259 5.5	S 13 59.6	S 6	5 0	5 34	17 53	18 27	Kaus Aust	83 41.9	S 34 22.4				
	6	129 13.6	274 5.5	S 14 0.4	S 7	4 59	5 33	17 54	18 28	Kochab	137 21.4	N 74 5.6				
	7	144 16.1	289 5.5	S 14 1.2	S 8	4 58	5 32	17 55	18 29	Markab	13 36.5	N 15 17.6				
	8	159 18.6	304 5.6	S 14 2.0	S 9	4 57	5 31	17 56	18 31	Menkent	148 5.9	S 36 26.5				
	9	174 21.0	319 5.6	S 14 2.9	S 10	4 56	5 30	17 57	18 32	Miaplacidu	221 39.2	S 69 46.7				
	10	189 23.5	334 5.6	S 14 3.7	S 11	4 54	5 29	17 58	18 33	Mirfak	308 37.5	N 49 54.9				
	11	204 25.9	349 5.7	S 14 4.5	S 12	4 53	5 28	17 59	18 34	Nunki	75 56.5	S 26 16.4				
	12	219 28.4	4 5.7	S 14 5.3	S 13	4 52	5 27	18 0	18 35	Peacock	53 16.9	S 56 41.1				
	13	234 30.9	19 5.7	S 14 6.1	S 14	4 51	5 26	18 1	18 37	Pollux	243 25.6	N 27 59.0				
	14	249 33.3	34 5.7	S 14 6.9	S 15	4 50	5 25	18 3	18 38	Procyon	244 57.8	N 5 11.2				
	15	264 35.8	49 5.8	S 14 7.7	S 20	4 43	5 19	18 8	18 45	Rasalhague	96 5.3	N 12 33.3				
	16	279 38.3	64 5.8	S 14 8.5	S 25	4 35	5 13	18 14	18 52	Regulus	207 41.9	N 11 53.3				
	17	294 40.7	79 5.8	S 14 9.3	S 30	4 27	5 7	18 21	19 1	Rigel	281 10.3	S 8 11.1				
	18	309 43.2	94 5.8	S 14 10.1	S 35	4 16	4 59	18 28	19 11	Rigel Kent	139 48.2	S 60 54.0				
	19	324 45.7	109 5.9	S 14 11.0	S 40	4 4	4 51	18 37	19 24	Schedar	349 38.1	N 56 37.6				
	20	339 48.1	124 5.9	S 14 11.8	S 45	3 50	4 41	18 47	19 39	Shaula	96 20.0	S 37 6.7				
	21	354 50.6	139 5.9	S 14 12.6	S 50	3 31	4 29	18 59	19 58	Sirius	258 32.0	S 16 44.0				
	22	9 53.1	154 5.9	S 14 13.4	S 55	3 6	4 14	19 15	20 24	Spica	158 29.9	S 11 14.4				
23	24 55.5	169 6.0	S 14 14.2	S 60	2 28	3 54	19 35	21 2	Vega	80 38.1	N 38 48.3					
Día	Sol				Luna											
	Ecuación del tiempo (00 ^h)		Corr. <i>d</i>	Paso por el meridiano	Edad día	Porcentaje de iluminación	Fase									
30	m s	m s		h m												
31	16 18	16 20	0.8	11 44	17.7	91										
	16 21	16 23	0.8	11 44	18.8	83										

Tabla G. Domingo 1 de noviembre – lunes 2 de noviembre de 2015.

Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
	h	° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m	h m	h m		° / ' / "	° / ' / "	
1	0	39 58.0	184 6.0	S 14 15.0	N 60	6 13	7 24	16 2	17 13	Achernar	335 25.2	S 57 9.5			
	1	55 0.4	199 6.0	S 14 15.8	N 55	6 4	7 5	16 21	17 22	Acrux	173 7.9	S 63 11.0			
	2	70 2.9	214 6.0	S 14 16.6	N 50	5 57	6 51	16 36	17 29	Adhara	255 11.1	S 28 59.6			
	3	85 5.4	229 6.1	S 14 17.4	N 45	5 51	6 39	16 47	17 35	Aldebaran	290 47.3	N 16 32.4			
	4	100 7.8	244 6.1	S 14 18.2	N 40	5 45	6 30	16 57	17 41	Alioth	166 20.0	N 55 52.4			
	5	115 10.3	259 6.1	S 14 19.0	N 35	5 40	6 22	17 5	17 46	Alkaid	152 58.2	N 49 14.2			
	6	130 12.8	274 6.1	S 14 19.8	N 30	5 35	6 14	17 12	17 51	Alnair	27 11.7	S 46 53.1			
	7	145 15.2	289 6.1	S 14 20.6	N 25	5 31	6 8	17 19	17 56	Alnilam	275 44.5	S 1 11.6			
	8	160 17.7	304 6.2	S 14 21.4	N 20	5 26	6 2	17 25	18 1	Alphard	217 54.6	S 8 43.6			
	9	175 20.2	319 6.2	S 14 22.2	N 15	5 21	5 56	17 31	18 6	Alpheratz	357 41.6	N 29 10.9			
	10	190 22.6	334 6.2	S 14 23.0	N 14	5 20	5 55	17 32	18 7	Altair	62 6.9	N 8 54.8			
	11	205 25.1	349 6.2	S 14 23.8	N 13	5 19	5 54	17 33	18 8	Antares	112 24.6	S 26 27.8			
	12	220 27.6	4 6.2	S 14 24.6	N 12	5 18	5 53	17 34	18 9	Arcturus	145 54.3	N 19 6.7			
	13	235 30.0	19 6.3	S 14 25.4	N 11	5 17	5 52	17 35	18 10	Atria	107 25.4	S 69 3.2			
	14	250 32.5	34 6.3	S 14 26.2	N 10	5 16	5 51	17 36	18 11	Avior	234 17.2	S 59 33.4			
	15	265 34.9	49 6.3	S 14 27.0	N 9	5 15	5 50	17 37	18 12	Bellatrix	278 30.1	N 6 21.7			
	16	280 37.4	64 6.3	S 14 27.8	N 8	5 14	5 49	17 38	18 13	Betelgeuse	270 59.4	N 7 24.4			
	17	295 39.9	79 6.3	S 14 28.6	N 7	5 13	5 47	17 39	18 14	Canopus	263 55.1	S 52 42.2			
	18	310 42.3	94 6.3	S 14 29.4	N 6	5 12	5 46	17 41	18 15	Capella	280 31.7	N 46 0.6			
	19	325 44.8	109 6.4	S 14 30.2	N 5	5 11	5 45	17 42	18 16	Deneb	49 30.3	N 45 20.7			
	20	340 47.3	124 6.4	S 14 31.0	N 4	5 10	5 44	17 43	18 17	Denebola	182 32.2	N 14 29.1			
	21	355 49.7	139 6.4	S 14 31.8	N 3	5 9	5 43	17 44	18 18	Dubhe	193 50.2	N 61 39.7			
	22	10 52.2	154 6.4	S 14 32.6	N 2	5 8	5 42	17 45	18 19	Elnath	278 10.3	N 28 37.0			
23	25 54.7	169 6.4	S 14 33.4	N 1	5 7	5 41	17 46	18 20	Eltanin	90 45.7	N 51 29.7				
				0	5 6	5 40	17 47	18 21							
2	0	40 57.1	184 6.4	S 14 34.2	S 1	5 5	5 39	17 48	18 22	Enif	33 45.5	N 9 57.1			
	1	55 59.6	199 6.4	S 14 35.0	S 2	5 4	5 38	17 49	18 23	Formalhaut	15 22.2	S 29 32.3			
	2	71 2.0	214 6.5	S 14 35.8	S 3	5 3	5 37	17 50	18 24	Gacrux	171 59.5	S 57 11.8			
	3	86 4.5	229 6.5	S 14 36.6	S 4	5 2	5 36	17 51	18 25	Hadar	148 46.1	S 60 26.7			
	4	101 7.0	244 6.5	S 14 37.4	S 5	5 1	5 35	17 52	18 26	Hamal	327 58.6	N 23 32.3			
	5	116 9.4	259 6.5	S 14 38.2	S 6	5 0	5 34	17 53	18 27	Kaus Aust	83 41.9	S 34 22.4			
	6	131 11.9	274 6.5	S 14 39.0	S 7	4 59	5 33	17 54	18 29	Kochab	137 21.4	N 74 5.6			
	7	146 14.4	289 6.5	S 14 39.8	S 8	4 57	5 32	17 55	18 30	Markab	13 36.5	N 15 17.7			
	8	161 16.8	304 6.5	S 14 40.6	S 9	4 56	5 30	17 57	18 31	Menkent	148 5.9	S 36 26.5			
	9	176 19.3	319 6.5	S 14 41.4	S 10	4 55	5 30	17 58	18 32	Miaplacidu	221 39.2	S 69 46.7			
	10	191 21.8	334 6.6	S 14 42.1	S 11	4 54	5 28	17 59	18 33	Mirfak	308 37.5	N 49 54.9			
	11	206 24.2	349 6.6	S 14 42.9	S 12	4 53	5 27	18 0	18 35	Nunki	75 56.5	S 26 16.4			
	12	221 26.7	4 6.6	S 14 43.7	S 13	4 51	5 26	18 1	18 36	Peacock	53 16.9	S 56 41.1			
	13	236 29.2	19 6.6	S 14 44.5	S 14	4 50	5 25	18 2	18 37	Pollux	243 25.5	N 27 59.0			
	14	251 31.6	34 6.6	S 14 45.3	S 15	4 49	5 24	18 3	18 39	Procyon	244 57.8	N 5 11.2			
	15	266 34.1	49 6.6	S 14 46.1	S 20	4 42	5 18	18 9	18 46	Rasalhague	96 5.3	N 12 33.3			
	16	281 36.5	64 6.6	S 14 46.9	S 25	4 34	5 12	18 16	18 54	Regulus	207 41.9	N 11 53.3			
	17	296 39.0	79 6.6	S 14 47.7	S 30	4 25	5 5	18 23	19 3	Rigel	281 10.3	S 8 11.1			
	18	311 41.5	94 6.6	S 14 48.5	S 35	4 14	4 57	18 30	19 14	Rigel Kent	139 48.2	S 60 54.0			
	19	326 43.9	109 6.6	S 14 49.3	S 40	4 2	4 48	18 39	19 26	Schedar	349 38.1	N 56 37.6			
	20	341 46.4	124 6.6	S 14 50.0	S 45	3 46	4 38	18 50	19 42	Shaula	96 20.0	S 37 6.7			
	21	356 48.9	139 6.7	S 14 50.8	S 50	3 27	4 26	19 3	20 2	Sirius	258 32.0	S 16 44.0			
	22	11 51.3	154 6.7	S 14 51.6	S 55	3 0	4 10	19 19	20 29	Spica	158 29.9	S 11 14.4			
23	26 53.8	169 6.7	S 14 52.4	S 60	2 21	3 48	19 40	21 10	Vega	80 38.2	N 38 48.3				
Día	Sol				Luna										
	Ecuación del tiempo (00 ^h)		Corr. <i>d</i>	Paso por el meridiano	Edad día	Porcentaje de iluminación	Fase								
1	m s	m s		h m											
2	16 24	16 25	0.8	11 44	19.9	74									
	16 26	16 26	0.8	11 44	21.0	65									

Tabla G. Martes 3 de noviembre – miércoles 4 de noviembre de 2015.


Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas			
		GHA	GHA	Dec.	Nombre	SHA	Dec.									
3	h	° /	° /	° /	°	h m	h m	h m	h m							
	0	41 56.3	184 6.7	S 14 53.2	N 60	6 18	7 29	15 57	17 8	Achernar	335 25.2	S 57 9.5				
	1	56 58.7	199 6.7	S 14 54.0	N 55	6 8	7 9	16 17	17 18	Acruz	173 7.9	S 63 10.9				
	2	72 1.2	214 6.7	S 14 54.8	N 50	6 0	6 54	16 32	17 26	Adhara	255 11.1	S 28 59.6				
	3	87 3.7	229 6.7	S 14 55.5	N 45	5 54	6 42	16 44	17 33	Aldebaran	290 47.3	N 16 32.4				
	4	102 6.1	244 6.7	S 14 56.3	N 40	5 48	6 32	16 55	17 39	Alioth	166 20.0	N 55 52.4				
	5	117 8.6	259 6.7	S 14 57.1	N 35	5 42	6 23	17 3	17 45	Alkaid	152 58.2	N 49 14.2				
	6	132 11.0	274 6.7	S 14 57.9	N 30	5 37	6 16	17 11	17 50	Alnair	27 41.7	S 26 53.1				
	7	147 13.5	289 6.7	S 14 58.7	N 25	5 32	6 9	17 18	17 55	Alnilam	275 44.5	S 1 11.6				
	8	162 16.0	304 6.7	S 14 59.5	N 20	5 27	6 3	17 24	18 0	Alphard	217 54.6	S 8 43.6				
	9	177 18.4	319 6.7	S 15 0.2	N 15	5 22	5 57	17 30	18 5	Alpheratz	357 41.6	N 29 10.9				
	10	192 20.9	334 6.7	S 15 1.0	N 14	5 21	5 56	17 31	18 6	Altair	62 6.9	N 8 54.8				
	11	207 23.4	349 6.7	S 15 1.8	N 13	5 20	5 55	17 32	18 7	Antares	112 24.6	S 26 27.8				
	12	222 25.8	4 6.7	S 15 2.6	N 12	5 19	5 53	17 34	18 8	Arcturus	145 54.3	N 19 6.7				
	13	237 28.3	19 6.7	S 15 3.4	N 11	5 18	5 52	17 35	18 9	Atria	107 25.4	S 69 3.2				
	14	252 30.8	34 6.7	S 15 4.2	N 10	5 17	5 51	17 36	18 10	Avior	234 17.2	S 59 33.4				
	15	267 33.2	49 6.7	S 15 4.9	N 9	5 16	5 50	17 37	18 11	Bellatrix	278 30.0	N 6 21.7				
	16	282 35.7	64 6.7	S 15 5.7	N 8	5 15	5 49	17 38	18 12	Betelgeuse	270 59.4	N 7 24.4				
	17	297 38.1	79 6.7	S 15 6.5	N 7	5 14	5 48	17 39	18 13	Canopus	263 55.1	S 52 42.2				
	18	312 40.6	94 6.7	S 15 7.3	N 6	5 13	5 47	17 40	18 14	Capella	280 31.7	N 46 0.6				
	19	327 43.1	109 6.7	S 15 8.1	N 5	5 12	5 46	17 41	18 15	Deneb	49 30.4	N 45 20.7				
	20	342 45.5	124 6.7	S 15 8.8	N 4	5 11	5 45	17 42	18 16	Denebola	182 32.2	N 14 29.1				
	21	357 48.0	139 6.7	S 15 9.6	N 3	5 9	5 43	17 44	18 18	Dubhe	193 50.2	N 61 39.7				
22	12 50.5	154 6.7	S 15 10.4	N 2	5 8	5 42	17 45	18 19	Elnath	278 10.3	N 28 37.1					
23	27 52.9	169 6.7	S 15 11.2	N 1	5 7	5 41	17 46	18 20	Eltanin	90 45.8	N 51 29.7					
4	0	42 55.4	184 6.7	S 15 11.9	S 1	5 5	5 39	17 48	18 22	Enif	33 45.5	N 9 57.1				
	1	57 57.9	199 6.7	S 15 12.7	S 2	5 4	5 38	17 49	18 23	Formalhaut	15 22.2	S 29 32.3				
	2	73 0.3	214 6.7	S 15 13.5	S 3	5 3	5 37	17 50	18 24	Gacrux	171 59.5	S 57 11.8				
	3	88 2.8	229 6.7	S 15 14.3	S 4	5 2	5 36	17 51	18 25	Hadar	148 46.1	S 60 26.7				
	4	103 5.3	244 6.7	S 15 15.0	S 5	5 0	5 35	17 52	18 27	Hamal	327 58.6	N 23 32.3				
	5	118 7.7	259 6.7	S 15 15.8	S 6	4 59	5 34	17 54	18 28	Kaus Aust	83 41.9	S 34 22.4				
	6	133 10.2	274 6.7	S 15 16.6	S 7	4 58	5 32	17 55	18 29	Kochab	137 21.4	N 74 5.6				
	7	148 12.6	289 6.7	S 15 17.4	S 8	4 57	5 31	17 56	18 30	Markab	13 36.6	N 15 17.7				
	8	163 15.1	304 6.7	S 15 18.1	S 9	4 55	5 30	17 57	18 32	Menkent	148 5.9	S 36 26.5				
	9	178 17.6	319 6.7	S 15 18.9	S 10	4 54	5 29	17 58	18 33	Miaplacidu	221 39.1	S 69 46.7				
	10	193 20.0	334 6.7	S 15 19.7	S 11	4 53	5 28	17 59	18 34	Mirfak	308 37.5	N 49 54.9				
	11	208 22.5	349 6.7	S 15 20.4	S 12	4 52	5 27	18 0	18 35	Nunki	75 56.5	S 26 16.4				
	12	223 25.0	4 6.6	S 15 21.2	S 13	4 50	5 26	18 2	18 37	Peacock	53 16.9	S 56 41.1				
	13	238 27.4	19 6.6	S 15 22.0	S 14	4 49	5 24	18 3	18 38	Pollux	243 25.5	N 27 59.0				
	14	253 29.9	34 6.6	S 15 22.8	S 15	4 48	5 23	18 4	18 40	Procyon	244 57.8	N 5 11.2				
	15	268 32.4	49 6.6	S 15 23.5	S 20	4 40	5 17	18 10	18 47	Rasalhague	96 5.3	N 12 33.3				
	16	283 34.8	64 6.6	S 15 24.3	S 25	4 32	5 11	18 17	18 55	Regulus	207 41.9	N 11 53.3				
	17	298 37.3	79 6.6	S 15 25.1	S 30	4 23	5 3	18 24	19 5	Rigel	281 10.3	S 8 11.1				
	18	313 39.8	94 6.6	S 15 25.8	S 35	4 12	4 55	18 32	19 16	Rigel Kent	139 48.2	S 60 54.0				
	19	328 42.2	109 6.6	S 15 26.6	S 40	3 59	4 46	18 42	19 29	Schedar	349 38.1	N 56 37.6				
	20	343 44.7	124 6.6	S 15 27.4	S 45	3 43	4 35	18 53	19 45	Shaula	96 20.0	S 37 6.7				
	21	358 47.1	139 6.6	S 15 28.1	S 50	3 23	4 22	19 6	20 6	Sirius	258 32.0	S 16 44.0				
	22	13 49.6	154 6.6	S 15 28.9	S 55	2 55	4 5	19 23	20 34	Spica	158 29.9	S 11 14.4				
23	28 52.1	169 6.5	S 15 29.7	S 60	2 13	3 43	19 46	21 18	Vega	80 38.2	N 38 48.3					
Día	Sol				Luna											
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día	Porcentaje de iluminación	Fase									
	m s	m s		h m												
3	16 27	16 27	0.8	11 44	22.0	55										
4	16 27	16 26	0.8	11 44	22.9	45										

Tabla G. Jueves 5 de noviembre – viernes 6 de noviembre de 2015.

Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
5	h	° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m	h m	h m	h m	° / ' / "	° / ' / "	° / ' / "
	0	43 54.5	184 6.5	S 15 30.4	N 60	6 22	7 34	15 52	17 4	17 15	17 15	17 15	Achernar	335 25.2	S 57 9.5
	1	58 57.0	199 6.5	S 15 31.2	N 55	6 12	7 13	16 13	17 15	17 23	17 23	17 23	Acrux	173 7.9	S 63 10.9
	2	73 59.5	214 6.5	S 15 32.0	N 50	6 3	6 57	16 29	17 23	17 30	17 30	17 30	Adhara	255 11.1	S 28 59.6
	3	89 1.9	229 6.5	S 15 32.7	N 45	5 56	6 45	16 42	17 30	17 37	17 37	17 37	Aldebaran	290 47.2	N 16 32.4
	4	104 4.4	244 6.5	S 15 33.5	N 40	5 50	6 34	16 52	17 37	17 43	17 43	17 43	Alioth	166 20.0	N 55 52.4
	5	119 6.9	259 6.5	S 15 34.3	N 35	5 44	6 25	17 1	17 43	17 49	17 49	17 49	Alkaid	152 58.1	N 49 14.1
	6	134 9.3	274 6.5	S 15 35.0	N 30	5 38	6 17	17 9	17 49	17 54	17 54	17 54	Alnair	27 41.7	S 46 53.1
	7	149 11.8	289 6.4	S 15 35.8	N 25	5 33	6 10	17 17	17 54	18 5	18 5	18 5	Alnilam	275 44.5	S 1 11.6
	8	164 14.2	304 6.4	S 15 36.5	N 20	5 28	6 4	17 23	18 5	18 6	18 6	18 6	Alphard	217 54.5	S 8 43.6
	9	179 16.7	319 6.4	S 15 37.3	N 15	5 22	5 58	17 29	18 5	18 6	18 6	18 6	Alpheratz	357 41.6	N 29 10.9
	10	194 19.2	334 6.4	S 15 38.1	N 14	5 21	5 56	17 31	18 6	18 7	18 7	18 7	Altair	62 6.9	N 8 54.8
	11	209 21.6	349 6.4	S 15 38.8	N 13	5 20	5 55	17 32	18 7	18 8	18 8	18 8	Antares	112 24.6	S 26 27.8
	12	224 24.1	4 6.4	S 15 39.6	N 12	5 19	5 54	17 33	18 8	18 9	18 9	18 9	Arcturus	145 54.3	N 19 6.7
	13	239 26.6	19 6.4	S 15 40.3	N 11	5 18	5 53	17 34	18 9	18 10	18 10	18 10	Atria	107 25.4	S 69 3.2
	14	254 29.0	34 6.3	S 15 41.1	N 10	5 17	5 52	17 35	18 10	18 11	18 11	18 11	Avior	234 17.2	S 59 33.4
	15	269 31.5	49 6.3	S 15 41.9	N 9	5 16	5 50	17 37	18 11	18 12	18 12	18 12	Bellatrix	278 30.0	N 6 21.7
	16	284 34.0	64 6.3	S 15 42.6	N 8	5 15	5 49	17 38	18 12	18 13	18 13	18 13	Betelgeuse	270 59.3	N 7 24.4
	17	299 36.4	79 6.3	S 15 43.4	N 7	5 14	5 48	17 39	18 13	18 14	18 14	18 14	Canopus	263 55.1	S 52 42.2
	18	314 38.9	94 6.3	S 15 44.1	N 6	5 13	5 47	17 40	18 14	18 15	18 15	18 15	Capella	280 31.7	N 46 0.6
	19	329 41.4	109 6.2	S 15 44.9	N 5	5 12	5 46	17 41	18 15	18 16	18 16	18 16	Deneb	49 30.4	N 45 20.7
	20	344 43.8	124 6.2	S 15 45.7	N 4	5 11	5 45	17 42	18 16	18 17	18 17	18 17	Denebola	182 32.2	N 14 29.1
	21	359 46.3	139 6.2	S 15 46.4	N 3	5 10	5 44	17 44	18 18	18 19	18 19	18 19	Dubhe	193 50.2	N 61 39.7
22	14 48.7	154 6.2	S 15 47.2	N 2	5 8	5 42	17 45	18 19	18 20	18 20	18 20	Elnath	278 10.3	N 28 37.1	
23	29 51.2	169 6.2	S 15 47.9	N 1	5 7	5 41	17 46	18 20	18 21	18 21	18 21	Eltanin	90 45.8	N 51 29.6	
				0	5 6	5 40	17 47	18 21	18 22	18 22	18 22	Enif	33 45.5	N 9 57.1	
	0	44 53.7	184 6.1	S 15 48.7	S 1	5 5	5 39	17 48	18 23	18 23	18 23	Formalhaut	15 22.2	S 29 32.3	
	1	59 56.1	199 6.1	S 15 49.4	S 2	5 4	5 38	17 49	18 25	18 25	18 25	Gacrux	171 59.5	S 57 11.8	
	2	74 58.6	214 6.1	S 15 50.2	S 3	5 3	5 37	17 50	18 26	18 26	18 26	Hadar	148 46.1	S 60 26.7	
	3	90 1.1	229 6.1	S 15 50.9	S 4	5 1	5 36	17 52	18 27	18 27	18 27	Hamal	327 58.6	N 23 32.3	
	4	105 3.5	244 6.1	S 15 51.7	S 5	5 0	5 34	17 53	18 28	18 28	18 28	Kaus Aust	83 41.9	S 34 22.4	
	5	120 6.0	259 6.0	S 15 52.4	S 6	4 59	5 33	17 54	18 30	18 30	18 30	Kochab	137 21.4	N 74 5.6	
	6	135 8.5	274 6.0	S 15 53.2	S 7	4 58	5 32	17 55	18 31	18 31	18 31	Markab	13 36.6	N 15 17.7	
	7	150 10.9	289 6.0	S 15 54.0	S 8	4 56	5 31	17 56	18 32	18 32	18 32	Menkent	148 5.9	S 36 26.5	
	8	165 13.4	304 6.0	S 15 54.7	S 9	4 55	5 30	17 58	18 33	18 33	18 33	Miaplacidu	221 39.1	S 69 46.7	
	9	180 15.9	319 5.9	S 15 55.5	S 10	4 54	5 29	17 59	18 35	18 35	18 35	Mirfak	308 37.5	N 49 54.9	
	10	195 18.3	334 5.9	S 15 56.2	S 11	4 52	5 27	18 0	18 36	18 36	18 36	Nunki	75 56.5	S 26 16.4	
	11	210 20.8	349 5.9	S 15 57.0	S 12	4 51	5 26	18 1	18 38	18 38	18 38	Peacock	53 16.9	S 56 41.1	
	12	225 23.2	4 5.9	S 15 57.7	S 13	4 50	5 25	18 2	18 39	18 39	18 39	Pollux	243 25.5	N 27 59.0	
	13	240 25.7	19 5.9	S 15 58.5	S 14	4 48	5 24	18 4	18 40	18 40	18 40	Procyon	244 57.8	N 5 11.2	
	14	255 28.2	34 5.8	S 15 59.2	S 15	4 47	5 23	18 5	18 48	18 48	18 48	Rasalhague	96 5.3	N 12 33.3	
	15	270 30.6	49 5.8	S 16 00.0	S 20	4 39	5 16	18 11	18 57	18 57	18 57	Regulus	207 41.9	N 11 53.3	
	16	285 33.1	64 5.8	S 16 0.7	S 25	4 31	5 9	18 18	19 7	19 7	19 7	Rigel	281 10.2	S 8 11.1	
	17	300 35.6	79 5.7	S 16 1.4	S 30	4 21	5 2	18 26	19 18	19 18	19 18	Rigel Kent	139 48.2	S 60 54.0	
	18	315 38.0	94 5.7	S 16 2.2	S 35	4 10	4 53	18 34	19 32	19 32	19 32	Schedar	349 38.1	N 56 37.6	
	19	330 40.5	109 5.7	S 16 2.9	S 40	3 56	4 44	18 44	19 48	19 48	19 48	Shaula	96 20.1	S 37 6.7	
	20	345 43.0	124 5.7	S 16 3.7	S 45	3 40	4 32	18 55	20 10	20 10	20 10	Sirius	258 32.0	S 16 44.0	
	21	0 45.4	139 5.6	S 16 4.4	S 50	3 19	4 19	19 9	20 40	20 40	20 40	Spica	158 29.8	S 11 14.4	
	22	15 47.9	154 5.6	S 16 5.2	S 55	2 49	4 1	19 27	21 26	21 26	21 26	Vega	80 38.2	N 38 48.3	
	23	30 50.3	169 5.6	S 16 5.9	S 60	2 5	3 38	19 51							
		Sol						Luna							
Día		Ecuación del tiempo (00 ^h)		Corr. <i>d</i>	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase					
		m s	m s		h m										
5		16 26	16 25	0.7	11 44		23.8	35							
6		16 24	16 23	0.7	11 44		24.7	27							

Tabla G. Sábado 7 de noviembre – domingo 8 de noviembre de 2015.


Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas			
		GHA	GHA	Dec.	Nombre	SHA	Dec.									
7	h	° /	° /	° /	°	h m	h m	h m	h m							
	0	45 52.8	184 5.6	S 16 6.7	N 60	6 27	7 39	15 47	17 0	Achernar	335 25.2	S 57 9.5				
	1	60 55.3	199 5.5	S 16 7.4	N 55	6 15	7 17	16 9	17 11	Acrux	173 7.9	S 63 10.9				
	2	75 57.7	214 5.5	S 16 8.1	N 50	6 6	7 1	16 26	17 20	Adhara	255 11.1	S 28 59.6				
	3	91 0.2	229 5.5	S 16 8.9	N 45	5 59	6 48	16 39	17 28	Aldebaran	290 47.2	N 16 32.4				
	4	106 2.7	244 5.4	S 16 9.6	N 40	5 52	6 37	16 50	17 35	Alioth	166 19.9	N 55 52.4				
	5	121 5.1	259 5.4	S 16 10.4	N 35	5 45	6 27	17 0	17 41	Alkaid	152 58.1	N 49 14.1				
	6	136 7.6	274 5.4	S 16 11.1	N 30	5 40	6 19	17 8	17 47	Alnair	27 41.7	S 46 53.1				
	7	151 10.1	289 5.3	S 16 11.9	N 25	5 34	6 12	17 15	17 53	Alnilam	275 44.5	S 1 11.6				
	8	166 12.5	304 5.3	S 16 12.6	N 20	5 29	6 5	17 22	17 59	Alphard	217 54.5	S 8 43.6				
	9	181 15.0	319 5.3	S 16 13.3	N 15	5 23	5 58	17 29	18 4	Alpheratz	357 41.6	N 29 10.9				
	10	196 17.5	334 5.2	S 16 14.1	N 14	5 22	5 57	17 30	18 5	Altair	62 6.9	N 8 54.8				
	11	211 19.9	349 5.2	S 16 14.8	N 13	5 21	5 56	17 31	18 6	Antares	112 24.6	S 26 27.8				
	12	226 22.4	4 5.2	S 16 15.6	N 12	5 20	5 55	17 33	18 7	Arcturus	145 54.3	N 19 6.7				
	13	241 24.8	19 5.1	S 16 16.3	N 11	5 19	5 53	17 34	18 9	Atria	107 25.4	S 69 3.2				
	14	256 27.3	34 5.1	S 16 17.0	N 10	5 18	5 52	17 35	18 10	Avior	234 17.1	S 59 33.4				
	15	271 29.8	49 5.1	S 16 17.8	N 9	5 16	5 51	17 36	18 11	Bellatrix	278 30.0	N 6 21.7				
	16	286 32.2	64 5.0	S 16 18.5	N 8	5 15	5 50	17 37	18 12	Betelgeuse	270 59.3	N 7 24.4				
	17	301 34.7	79 5.0	S 16 19.2	N 7	5 14	5 49	17 39	18 13	Canopus	263 55.1	S 52 42.2				
	18	316 37.2	94 5.0	S 16 20.0	N 6	5 13	5 47	17 40	18 14	Capella	280 31.7	N 46 0.6				
	19	331 39.6	109 4.9	S 16 20.7	N 5	5 12	5 46	17 41	18 15	Deneb	49 30.4	N 45 20.7				
	20	346 42.1	124 4.9	S 16 21.4	N 4	5 11	5 45	17 42	18 17	Denebola	182 32.1	N 14 29.1				
	21	1 44.6	139 4.9	S 16 22.2	N 3	5 10	5 44	17 44	18 18	Dubhe	193 50.2	N 61 39.7				
22	16 47.0	154 4.8	S 16 22.9	N 2	5 8	5 43	17 45	18 19	Elnath	278 10.3	N 28 37.1					
23	31 49.5	169 4.8	S 16 23.6	N 1	5 7	5 41	17 46	18 20	Eltanin	90 45.8	N 51 29.6					
8	0	46 52.0	184 4.7	S 16 24.4	S 1	5 5	5 39	17 48	18 22	Enif	33 45.5	N 9 57.1				
	1	61 54.4	199 4.7	S 16 25.1	S 2	5 4	5 38	17 49	18 24	Formalhaut	15 22.2	S 29 32.3				
	2	76 56.9	214 4.7	S 16 25.8	S 3	5 2	5 37	17 51	18 25	Gacrux	171 59.5	S 57 11.8				
	3	91 59.3	229 4.6	S 16 26.6	S 4	5 1	5 36	17 52	18 26	Hadar	148 46.1	S 60 26.7				
	4	107 1.8	244 4.6	S 16 27.3	S 5	5 0	5 34	17 53	18 28	Hamal	327 58.6	N 23 32.3				
	5	122 4.3	259 4.5	S 16 28.0	S 6	4 59	5 33	17 54	18 29	Kaus Aust	83 41.9	S 34 22.4				
	6	137 6.7	274 4.5	S 16 28.8	S 7	4 57	5 32	17 56	18 30	Kochab	137 21.4	N 74 5.5				
	7	152 9.2	289 4.5	S 16 29.5	S 8	4 56	5 31	17 57	18 31	Markab	13 36.6	N 15 17.7				
	8	167 11.7	304 4.4	S 16 30.2	S 9	4 54	5 29	17 58	18 33	Menkent	148 5.9	S 36 26.5				
	9	182 14.1	319 4.4	S 16 31.0	S 10	4 53	5 28	17 59	18 34	Miaplacidu	221 39.1	S 69 46.7				
	10	197 16.6	334 4.3	S 16 31.7	S 11	4 52	5 27	18 0	18 36	Mirfak	308 37.5	N 49 54.9				
	11	212 19.1	349 4.3	S 16 32.4	S 12	4 51	5 26	18 2	18 37	Nunki	75 56.6	S 26 16.4				
	12	227 21.5	4 4.3	S 16 33.1	S 13	4 49	5 25	18 3	18 38	Peacock	53 16.9	S 56 41.1				
	13	242 24.0	19 4.2	S 16 33.9	S 14	4 48	5 23	18 4	18 40	Pollux	243 25.5	N 27 59.0				
	14	257 26.5	34 4.2	S 16 34.6	S 15	4 46	5 22	18 6	18 41	Procyon	244 57.8	N 5 11.2				
	15	272 28.9	49 4.1	S 16 35.3	S 20	4 38	5 15	18 12	18 49	Rasalhague	96 5.3	N 12 33.3				
	16	287 31.4	64 4.1	S 16 36.0	S 25	4 30	5 8	18 19	18 58	Regulus	207 41.9	N 11 53.3				
	17	302 33.8	79 4.0	S 16 36.8	S 30	4 20	5 0	18 27	19 8	Rigel	281 10.2	S 8 11.1				
	18	317 36.3	94 4.0	S 16 37.5	S 35	4 8	4 52	18 36	19 20	Rigel Kent	139 48.2	S 60 54.0				
	19	332 38.8	109 3.9	S 16 38.2	S 40	3 54	4 42	18 46	19 34	Schedar	349 38.1	N 56 37.6				
	20	347 41.2	124 3.9	S 16 38.9	S 45	3 37	4 30	18 58	19 52	Shaula	96 20.1	S 37 6.7				
	21	2 43.7	139 3.9	S 16 39.7	S 50	3 15	4 16	19 13	20 14	Sirius	258 32.0	S 16 44.0				
	22	17 46.2	154 3.8	S 16 40.4	S 55	2 44	3 57	19 31	20 45	Spica	158 29.8	S 11 14.4				
23	32 48.6	169 3.8	S 16 41.1	S 60	1 56	3 33	19 56	21 34	Vega	80 38.2	N 38 48.3					
Día	Sol				Luna											
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día	Porcentaje de iluminación	Fase									
7	m s	m s		h m												
8	16 22	16 21	0.7	11 44	25.5	19										
	16 19	16 17	0.7	11 44	26.4	12										

Tabla G. Lunes 9 de noviembre – martes 10 de noviembre de 2015.

Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
9	h	° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m	h m	h m	h m	° / ' / "	° / ' / "	° / ' / "
	0	47 51.1	184 3.7	S 16 41.8	N 60	6 31	7 44	15 42	16 56	Achernar	335 25.2	S 57 9.5			
	1	62 53.6	199 3.7	S 16 42.5	N 55	6 19	7 21	16 6	17 8	Acrux	173 7.9	S 63 10.9			
	2	77 56.0	214 3.6	S 16 43.3	N 50	6 9	7 4	16 23	17 18	Adhara	255 11.0	S 28 59.6			
	3	92 58.5	229 3.6	S 16 44.0	N 45	6 1	6 50	16 37	17 26	Aldebaran	290 47.2	N 16 32.4			
	4	108 0.9	244 3.5	S 16 44.7	N 40	5 54	6 39	16 48	17 33	Alioth	166 19.9	N 55 52.4			
	5	123 3.4	259 3.5	S 16 45.4	N 35	5 47	6 29	16 58	17 40	Alkaid	152 58.1	N 49 14.1			
	6	138 5.9	274 3.4	S 16 46.1	N 30	5 41	6 21	17 7	17 46	Alnair	27 41.8	S 46 53.1			
	7	153 8.3	289 3.4	S 16 46.9	N 25	5 35	6 13	17 14	17 52	Alnilam	275 44.5	S 1 11.6			
	8	168 10.8	304 3.3	S 16 47.6	N 20	5 29	6 6	17 22	17 58	Alphard	217 54.5	S 8 43.6			
	9	183 13.3	319 3.3	S 16 48.3	N 15	5 24	5 59	17 28	18 4	Alpheratz	357 41.6	N 29 10.9			
	10	198 15.7	334 3.2	S 16 49.0	N 14	5 23	5 58	17 30	18 5	Altair	62 6.9	N 8 54.8			
	11	213 18.2	349 3.2	S 16 49.7	N 13	5 22	5 57	17 31	18 6	Antares	112 24.6	S 26 27.8			
	12	228 20.7	4 3.1	S 16 50.4	N 12	5 20	5 55	17 32	18 7	Arcturus	145 54.3	N 19 6.7			
	13	243 23.1	19 3.1	S 16 51.2	N 11	5 19	5 54	17 34	18 8	Atria	107 25.5	S 69 3.2			
	14	258 25.6	34 3.0	S 16 51.9	N 10	5 18	5 53	17 35	18 10	Avior	234 17.1	S 59 33.5			
	15	273 28.1	49 3.0	S 16 52.6	N 9	5 17	5 51	17 36	18 11	Bellatrix	278 30.0	N 6 21.7			
	16	288 30.5	64 2.9	S 16 53.3	N 8	5 16	5 50	17 37	18 12	Betelgeuse	270 59.3	N 7 24.4			
	17	303 33.0	79 2.9	S 16 54.0	N 7	5 15	5 49	17 39	18 13	Canopus	263 55.1	S 52 42.2			
	18	318 35.4	94 2.8	S 16 54.7	N 6	5 13	5 48	17 40	18 14	Capella	280 31.7	N 46 0.7			
	19	333 37.9	109 2.8	S 16 55.4	N 5	5 12	5 47	17 41	18 15	Deneb	49 30.4	N 45 20.7			
	20	348 40.4	124 2.7	S 16 56.1	N 4	5 11	5 45	17 42	18 17	Denebola	182 32.1	N 14 29.1			
	21	3 42.8	139 2.6	S 16 56.9	N 3	5 10	5 44	17 44	18 18	Dubhe	193 50.1	N 61 39.7			
22	18 45.3	154 2.6	S 16 57.6	N 2	5 9	5 43	17 45	18 19	Elnath	278 10.3	N 28 37.1				
23	33 47.8	169 2.5	S 16 58.3	N 1	5 7	5 42	17 46	18 20	Eltanin	90 45.8	N 51 29.6				
10	0	48 50.2	184 2.5	S 16 59.0	0	5 6	5 40	17 47	18 22						
	1	63 52.7	199 2.4	S 16 59.7	S 1	5 5	5 39	17 48	18 23	Enif	33 45.5	N 9 57.1			
	2	78 55.2	214 2.4	S 17 0.4	S 2	5 4	5 38	17 50	18 24	Formalhaut	15 22.2	S 29 32.3			
	3	93 57.6	229 2.3	S 17 1.1	S 3	5 2	5 37	17 51	18 25	Gacrux	171 59.4	S 57 11.8			
	4	109 0.1	244 2.2	S 17 1.8	S 4	5 1	5 35	17 52	18 27	Hadar	148 46.1	S 60 26.7			
	5	124 2.6	259 2.2	S 17 2.5	S 5	5 0	5 34	17 53	18 28	Hamal	327 58.6	N 23 32.3			
	6	139 5.0	274 2.1	S 17 3.2	S 6	4 58	5 33	17 55	18 29	Kaus Aust	83 42.0	S 34 22.4			
	7	154 7.5	289 2.1	S 17 3.9	S 7	4 57	5 32	17 56	18 31	Kochab	137 21.4	N 74 5.5			
	8	169 9.9	304 2.0	S 17 4.6	S 8	4 56	5 30	17 57	18 32	Markab	13 36.6	N 15 17.7			
	9	184 12.4	319 2.0	S 17 5.3	S 9	4 54	5 29	17 59	18 34	Menkent	148 5.8	S 36 26.5			
	10	199 14.9	334 1.9	S 17 6.0	S 10	4 53	5 28	18 0	18 35	Miaplacidu	221 39.0	S 69 46.7			
	11	214 17.3	349 1.8	S 17 6.8	S 11	4 51	5 27	18 1	18 36	Mirfak	308 37.5	N 49 54.9			
	12	229 19.8	4 1.8	S 17 7.5	S 12	4 50	5 25	18 2	18 38	Nunki	75 56.6	S 26 16.4			
	13	244 22.3	19 1.7	S 17 8.2	S 13	4 49	5 24	18 4	18 39	Peacock	53 16.9	S 56 41.1			
	14	259 24.7	34 1.7	S 17 8.9	S 14	4 47	5 23	18 5	18 41	Pollux	243 25.5	N 27 59.0			
	15	274 27.2	49 1.6	S 17 9.6	S 15	4 46	5 21	18 6	18 42	Procyon	244 57.7	N 5 11.2			
	16	289 29.7	64 1.5	S 17 10.3	S 20	4 37	5 15	18 13	18 51	Rasalhague	96 5.3	N 12 33.3			
	17	304 32.1	79 1.5	S 17 11.0	S 25	4 28	5 7	18 21	19 0	Regulus	207 41.8	N 11 53.3			
	18	319 34.6	94 1.4	S 17 11.7	S 30	4 18	4 59	18 29	19 10	Rigel	281 10.2	S 8 11.1			
	19	334 37.0	109 1.3	S 17 12.4	S 35	4 6	4 50	18 38	19 22	Rigel Kent	139 48.1	S 60 54.0			
	20	349 39.5	124 1.3	S 17 13.1	S 40	3 52	4 40	18 49	19 37	Schedar	349 38.1	N 56 37.6			
	21	4 42.0	139 1.2	S 17 13.8	S 45	3 34	4 27	19 1	19 55	Shaula	96 20.1	S 37 6.7			
	22	19 44.4	154 1.2	S 17 14.5	S 50	3 11	4 12	19 16	20 18	Sirius	258 31.9	S 16 44.0			
23	34 46.9	169 1.1	S 17 15.2	S 55	2 39	3 53	19 36	20 51	Spica	158 29.8	S 11 14.4				
				S 60	1 48	3 28	20 2	21 43	Vega	80 38.2	N 38 48.3				
Día	Sol				Luna										
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día	Porcentaje de iluminación	Fase								
9	m s	m s		h m											
10	16 15	16 12	0.7	11 44	27.2	6									
	16 10	16 7	0.7	11 44	28.1	2									

Tabla G. Miércoles 11 de noviembre – jueves 12 de noviembre de 2015.

Día	TU	Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		Aries	Sol							Nombre	SHA	Dec.
		GHA	GHA	Dec.								
		° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m		° / ' / "	° / ' / "
11	0	49 49.4	184 1.0	S 17 15.9	N 60	6 35	7 50	15 38	16 52	Achernar	335 25.2	S 57 9.5
	1	64 51.8	199 1.0	S 17 16.5	N 55	6 23	7 25	16 2	17 5	Acrux	173 7.9	S 63 10.9
	2	79 54.3	214 0.9	S 17 17.2	N 50	6 12	7 7	16 20	17 15	Adhara	255 11.0	S 28 59.6
	3	94 56.8	229 0.8	S 17 17.9	N 45	6 4	6 53	16 35	17 24	Aldebaran	290 47.2	N 16 32.4
	4	109 59.2	244 0.8	S 17 18.6	N 40	5 56	6 41	16 46	17 32	Alioth	166 19.9	N 55 52.4
	5	125 1.7	259 0.7	S 17 19.3	N 35	5 49	6 31	16 57	17 39	Alkaid	152 58.1	N 49 14.1
	6	140 4.2	274 0.6	S 17 20.0	N 30	5 43	6 22	17 6	17 45	Alnair	27 41.8	S 46 53.1
	7	155 6.6	289 0.6	S 17 20.7	N 25	5 36	6 14	17 14	17 51	Alnilam	275 44.5	S 1 11.6
	8	170 9.1	304 0.5	S 17 21.4	N 20	5 30	6 7	17 21	17 57	Alphard	217 54.5	S 8 43.6
	9	185 11.5	319 0.4	S 17 22.1	N 15	5 25	6 0	17 28	18 3	Alpheratz	357 41.6	N 29 10.9
	10	200 14.0	334 0.4	S 17 22.8	N 14	5 23	5 59	17 29	18 5	Altair	62 6.9	N 8 54.8
	11	215 16.5	349 0.3	S 17 23.5	N 13	5 22	5 57	17 31	18 6	Antares	112 24.6	S 26 27.8
	12	230 18.9	4 0.2	S 17 24.2	N 12	5 21	5 56	17 32	18 7	Arcturus	145 54.3	N 19 6.7
	13	245 21.4	19 0.1	S 17 24.9	N 11	5 20	5 55	17 33	18 8	Atria	107 25.5	S 69 3.2
	14	260 23.9	34 0.1	S 17 25.6	N 10	5 19	5 53	17 35	18 9	Avior	234 17.1	S 59 33.5
	15	275 26.3	49 0.0	S 17 26.2	N 9	5 17	5 52	17 36	18 11	Bellatrix	278 30.0	N 6 21.7
	16	290 28.8	63 59.9	S 17 26.9	N 8	5 16	5 51	17 37	18 12	Betelgeuse	270 59.3	N 7 24.4
	17	305 31.3	78 59.9	S 17 27.6	N 7	5 15	5 50	17 39	18 13	Canopus	263 55.0	S 52 42.2
	18	320 33.7	93 59.8	S 17 28.3	N 6	5 14	5 48	17 40	18 14	Capella	280 31.7	N 46 0.7
	19	335 36.2	108 59.7	S 17 29.0	N 5	5 13	5 47	17 41	18 16	Deneb	49 30.4	N 45 20.7
	20	350 38.7	123 59.7	S 17 29.7	N 4	5 11	5 46	17 42	18 17	Denebola	182 32.1	N 14 29.1
	21	5 41.1	138 59.6	S 17 30.4	N 3	5 10	5 44	17 44	18 18	Dubhe	193 50.1	N 61 39.7
	22	20 43.6	153 59.5	S 17 31.1	N 2	5 9	5 43	17 45	18 19	Elnath	278 10.3	N 28 37.1
23	35 46.0	168 59.4	S 17 31.7	N 1	5 8	5 42	17 46	18 21	Eltanin	90 45.8	N 51 29.6	
					0	5 6	5 41	17 47	18 22			
12	0	50 48.5	183 59.4	S 17 32.4	S 1	5 5	5 39	17 49	18 23	Enif	33 45.5	N 9 57.1
	1	65 51.0	198 59.3	S 17 33.1	S 2	5 4	5 38	17 50	18 25	Formalhaut	15 22.2	S 29 32.3
	2	80 53.4	213 59.2	S 17 33.8	S 3	5 2	5 37	17 51	18 26	Gacrux	171 59.4	S 57 11.8
	3	95 55.9	228 59.1	S 17 34.5	S 4	5 1	5 36	17 53	18 27	Hadar	148 46.1	S 60 26.7
	4	110 58.4	243 59.1	S 17 35.2	S 5	5 0	5 34	17 54	18 29	Hamal	327 58.6	N 23 32.3
	5	126 0.8	258 59.0	S 17 35.8	S 6	4 58	5 33	17 55	18 30	Kaus Aust	83 42.0	S 34 22.4
	6	141 3.3	273 58.9	S 17 36.5	S 7	4 57	5 32	17 57	18 31	Kochab	137 21.4	N 74 5.5
	7	156 5.8	288 58.8	S 17 37.2	S 8	4 55	5 30	17 58	18 33	Markab	13 36.6	N 15 17.7
	8	171 8.2	303 58.8	S 17 37.9	S 9	4 54	5 29	17 59	18 34	Menkent	148 5.8	S 36 26.5
	9	186 10.7	318 58.7	S 17 38.6	S 10	4 53	5 28	18 0	18 36	Miaplacidu	221 39.0	S 69 46.7
	10	201 13.1	333 58.6	S 17 39.2	S 11	4 51	5 26	18 2	18 37	Mirfak	308 37.5	N 49 54.9
	11	216 15.6	348 58.5	S 17 39.9	S 12	4 50	5 25	18 3	18 39	Nunki	75 56.6	S 26 16.4
	12	231 18.1	3 58.4	S 17 40.6	S 13	4 48	5 24	18 5	18 40	Peacock	53 17.0	S 56 41.0
	13	246 20.5	18 58.4	S 17 41.3	S 14	4 47	5 22	18 6	18 42	Pollux	243 25.5	N 27 59.0
	14	261 23.0	33 58.3	S 17 42.0	S 15	4 45	5 21	18 7	18 43	Procyon	244 57.7	N 5 11.2
	15	276 25.5	48 58.2	S 17 42.6	S 20	4 37	5 14	18 15	18 52	Rasalhague	96 5.3	N 12 33.3
	16	291 27.9	63 58.1	S 17 43.3	S 25	4 27	5 6	18 22	19 1	Regulus	207 41.8	N 11 53.3
	17	306 30.4	78 58.1	S 17 44.0	S 30	4 17	4 58	18 31	19 12	Rigel	281 10.2	S 8 11.1
	18	321 32.9	93 58.0	S 17 44.7	S 35	4 4	4 48	18 40	19 25	Rigel Kent	139 48.1	S 60 54.0
	19	336 35.3	108 57.9	S 17 45.3	S 40	3 49	4 38	18 51	19 40	Schedar	349 38.1	N 56 37.6
	20	351 37.8	123 57.8	S 17 46.0	S 45	3 31	4 25	19 4	19 58	Shaula	96 20.1	S 37 6.7
	21	6 40.3	138 57.7	S 17 46.7	S 50	3 7	4 9	19 20	20 23	Sirius	258 31.9	S 16 44.0
	22	21 42.7	153 57.6	S 17 47.4	S 55	2 34	3 50	19 40	20 56	Spica	158 29.8	S 11 14.4
23	36 45.2	168 57.6	S 17 48.0	S 60	1 39	3 23	20 7	21 53	Vega	80 38.2	N 38 48.3	
Día		Sol			Luna							
		Ecuación del tiempo (00 ^h)	Corr. d	Paso por el meridiano	Edad día	Porcentaje de iluminación	Fase					
		m s	m s	h m								
11		16 4	16 1	11 44	28.9	0	●					
12		15 57	15 54	11 44	0.3	0						

Tabla G. Viernes 13 de noviembre – sábado 14 de noviembre de 2015.


Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
13	h	° /	° /	° /	°	h m	h m	h m	h m						
	0	51 47.6	183 57.5	S 17 48.7	N 60	6 39	7 55	15 33	16 48	Achernar	335 25.2	S 57 9.6			
	1	66 50.1	198 57.4	S 17 49.4	N 55	6 26	7 29	15 59	17 2	Acrux	173 7.8	S 63 10.9			
	2	81 52.6	213 57.3	S 17 50.0	N 50	6 15	7 11	16 18	17 13	Adhara	255 11.0	S 28 59.6			
	3	96 55.0	228 57.2	S 17 50.7	N 45	6 6	6 56	16 32	17 22	Aldebaran	290 47.2	N 16 32.4			
	4	111 57.5	243 57.1	S 17 51.4	N 40	5 58	6 44	16 45	17 30	Alioth	166 19.9	N 55 52.4			
	5	127 00.0	258 57.1	S 17 52.1	N 35	5 51	6 33	16 55	17 37	Alkaid	152 58.1	N 49 14.1			
	6	142 2.4	273 57.0	S 17 52.7	N 30	5 44	6 24	17 4	17 44	Alnair	27 41.8	S 46 53.1			
	7	157 4.9	288 56.9	S 17 53.4	N 25	5 38	6 16	17 13	17 51	Alnilam	275 44.5	S 1 11.6			
	8	172 7.4	303 56.8	S 17 54.1	N 20	5 31	6 8	17 20	17 57	Alphard	217 54.5	S 8 43.6			
	9	187 9.8	318 56.7	S 17 54.7	N 15	5 25	6 1	17 28	18 3	Alpheratz	357 41.6	N 29 10.9			
	10	202 12.3	333 56.6	S 17 55.4	N 14	5 24	5 59	17 29	18 4	Altair	62 7.0	N 8 54.8			
	11	217 14.8	348 56.5	S 17 56.1	N 13	5 23	5 58	17 30	18 6	Antares	112 24.6	S 26 27.8			
	12	232 17.2	3 56.5	S 17 56.7	N 12	5 22	5 57	17 32	18 7	Arcturus	145 54.3	N 19 6.7			
	13	247 19.7	18 56.4	S 17 57.4	N 11	5 20	5 55	17 33	18 8	Atria	107 25.5	S 69 3.2			
	14	262 22.1	33 56.3	S 17 58.1	N 10	5 19	5 54	17 34	18 9	Avior	234 17.1	S 59 33.5			
	15	277 24.6	48 56.2	S 17 58.7	N 9	5 18	5 53	17 36	18 11	Bellatrix	278 30.0	N 6 21.7			
	16	292 27.1	63 56.1	S 17 59.4	N 8	5 17	5 51	17 37	18 12	Betelgeuse	270 59.3	N 7 24.4			
	17	307 29.5	78 56.0	S 18 0.0	N 7	5 15	5 50	17 39	18 13	Canopus	263 55.0	S 52 42.2			
	18	322 32.0	93 55.9	S 18 0.7	N 6	5 14	5 49	17 40	18 14	Capella	280 31.7	N 46 0.7			
	19	337 34.5	108 55.8	S 18 1.4	N 5	5 13	5 47	17 41	18 16	Deneb	49 30.4	N 45 20.7			
	20	352 36.9	123 55.8	S 18 2.0	N 4	5 12	5 46	17 43	18 17	Denebola	182 32.1	N 14 29.0			
	21	7 39.4	138 55.7	S 18 2.7	N 3	5 10	5 45	17 44	18 18	Dubhe	193 50.1	N 61 39.7			
22	22 41.9	153 55.6	S 18 3.3	N 2	5 9	5 43	17 45	18 20	Elnath	278 10.3	N 28 37.1				
23	37 44.3	168 55.5	S 18 4.0	N 1	5 8	5 42	17 46	18 21	Eltanin	90 45.8	N 51 29.6				
14	0	52 46.8	183 55.4	S 18 4.7	S 1	5 5	5 40	17 49	18 24	Enif	33 45.5	N 9 57.1			
	1	67 49.3	198 55.3	S 18 5.3	S 2	5 4	5 38	17 50	18 25	Formalhaut	15 22.2	S 29 32.3			
	2	82 51.7	213 55.2	S 18 6.0	S 3	5 2	5 37	17 52	18 26	Gacrux	171 59.4	S 57 11.8			
	3	97 54.2	228 55.1	S 18 6.6	S 4	5 1	5 36	17 53	18 28	Hadar	148 46.1	S 60 26.7			
	4	112 56.6	243 55.0	S 18 7.3	S 5	5 0	5 34	17 54	18 29	Hamal	327 58.6	N 23 32.3			
	5	127 59.1	258 54.9	S 18 8.0	S 6	4 58	5 33	17 56	18 31	Kaus Aust	83 42.0	S 34 22.4			
	6	143 1.6	273 54.8	S 18 8.6	S 7	4 57	5 32	17 57	18 32	Kochab	137 21.4	N 74 5.5			
	7	158 4.0	288 54.7	S 18 9.3	S 8	4 55	5 30	17 58	18 34	Markab	13 36.6	N 15 17.7			
	8	173 6.5	303 54.6	S 18 9.9	S 9	4 54	5 29	18 0	18 35	Menkent	148 5.8	S 36 26.5			
	9	188 9.0	318 54.6	S 18 10.6	S 10	4 52	5 28	18 1	18 37	Miaplacidu	221 39.0	S 69 46.7			
	10	203 11.4	333 54.5	S 18 11.2	S 11	4 51	5 26	18 3	18 38	Mirfak	308 37.5	N 49 54.9			
	11	218 13.9	348 54.4	S 18 11.9	S 12	4 49	5 25	18 4	18 40	Nunki	75 56.6	S 26 16.4			
	12	233 16.4	3 54.3	S 18 12.5	S 13	4 48	5 23	18 5	18 41	Peacock	53 17.0	S 56 41.0			
	13	248 18.8	18 54.2	S 18 13.2	S 14	4 46	5 22	18 7	18 43	Pollux	243 25.4	N 27 59.0			
	14	263 21.3	33 54.1	S 18 13.8	S 15	4 44	5 21	18 8	18 44	Procyon	244 57.7	N 5 11.2			
	15	278 23.7	48 54.0	S 18 14.5	S 20	4 36	5 13	18 16	18 53	Rasalhague	96 5.3	N 12 33.3			
	16	293 26.2	63 53.9	S 18 15.1	S 25	4 26	5 5	18 24	19 3	Regulus	207 41.8	N 11 53.3			
	17	308 28.7	78 53.8	S 18 15.8	S 30	4 15	4 57	18 32	19 14	Rigel	281 10.2	S 8 11.1			
	18	323 31.1	93 53.7	S 18 16.4	S 35	4 2	4 47	18 42	19 27	Rigel Kent	139 48.1	S 60 54.0			
	19	338 33.6	108 53.6	S 18 17.1	S 40	3 47	4 36	18 53	19 42	Schedar	349 38.1	N 56 37.6			
	20	353 36.1	123 53.5	S 18 17.7	S 45	3 28	4 23	19 7	20 2	Shaula	96 20.1	S 37 6.7			
	21	8 38.5	138 53.4	S 18 18.4	S 50	3 3	4 7	19 23	20 27	Sirius	258 31.9	S 16 44.0			
	22	23 41.0	153 53.3	S 18 19.0	S 55	2 29	3 46	19 44	21 2	Spica	158 29.8	S 11 14.4			
23	38 43.5	168 53.2	S 18 19.7	S 60	1 30	3 18	20 13	22 3	Vega	80 38.2	N 38 48.2				
Día	Sol						Luna			Fase					
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación								
13	m s	m s		h m											
14	15 50	15 46	0.7	11 44		1.3	1								
14	15 41	15 37	0.6	11 44		2.3	5								

Tabla G. Domingo 15 de noviembre – lunes 16 de noviembre de 2015.


Día	TU	Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.						Nombre	SHA	Dec.
15	h	° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m		° / ' / "	° / ' / "
	0	53 45.9	183 53.1	S 18 20.3	N 60	6 44	8 0	15 29	16 45	Achernar	335 25.2	S 57 9.6
	1	68 48.4	198 53.0	S 18 21.0	N 55	6 29	7 33	15 55	16 59	Acrux	173 7.8	S 63 10.9
	2	83 50.9	213 52.9	S 18 21.6	N 50	6 18	7 14	16 15	17 11	Alhara	255 11.0	S 28 59.6
	3	98 53.3	228 52.8	S 18 22.2	N 45	6 9	6 58	16 30	17 20	Aldebaran	290 47.2	N 16 32.4
	4	113 55.8	243 52.7	S 18 22.9	N 40	6 0	6 46	16 43	17 29	Alioth	166 19.9	N 55 52.3
	5	128 58.2	258 52.6	S 18 23.5	N 35	5 53	6 35	16 54	17 36	Alkaid	152 58.1	N 49 14.1
	6	144 0.7	273 52.5	S 18 24.2	N 30	5 46	6 26	17 3	17 43	Alnair	27 41.8	S 46 53.1
	7	159 3.2	288 52.4	S 18 24.8	N 25	5 39	6 17	17 12	17 50	Alnilam	275 44.4	S 1 11.7
	8	174 5.6	303 52.3	S 18 25.5	N 20	5 32	6 9	17 20	17 57	Alphard	217 54.5	S 8 43.7
	9	189 8.1	318 52.2	S 18 26.1	N 15	5 26	6 2	17 27	18 3	Alpheratz	357 41.6	N 29 10.9
	10	204 10.6	333 52.1	S 18 26.7	N 14	5 25	6 0	17 29	18 4	Altair	62 7.0	N 8 54.8
	11	219 13.0	348 52.0	S 18 27.4	N 13	5 24	5 59	17 30	18 6	Antares	112 24.6	S 26 27.8
	12	234 15.5	3 51.9	S 18 28.0	N 12	5 22	5 58	17 32	18 7	Arcturus	145 54.3	N 19 6.7
	13	249 18.0	18 51.8	S 18 28.7	N 11	5 21	5 56	17 33	18 8	Atria	107 25.5	S 69 3.2
	14	264 20.4	33 51.7	S 18 29.3	N 10	5 20	5 55	17 34	18 9	Avior	234 17.0	S 59 33.5
	15	279 22.9	48 51.6	S 18 29.9	N 9	5 18	5 53	17 36	18 11	Bellatrix	278 30.0	N 6 21.7
	16	294 25.4	63 51.4	S 18 30.6	N 8	5 17	5 52	17 37	18 12	Betelgeuse	270 59.3	N 7 24.4
	17	309 27.8	78 51.3	S 18 31.2	N 7	5 16	5 51	17 39	18 13	Canopus	263 55.0	S 52 42.2
	18	324 30.3	93 51.2	S 18 31.8	N 6	5 15	5 49	17 40	18 15	Capella	280 31.6	N 46 0.7
	19	339 32.7	108 51.1	S 18 32.5	N 5	5 13	5 48	17 41	18 16	Deneb	49 30.4	N 45 20.7
	20	354 35.2	123 51.0	S 18 33.1	N 4	5 12	5 47	17 43	18 17	Denebola	182 32.1	N 14 29.0
	21	9 37.7	138 50.9	S 18 33.7	N 3	5 11	5 45	17 44	18 19	Dubhe	193 50.1	N 61 39.7
22	24 40.1	153 50.8	S 18 34.4	N 2	5 9	5 44	17 45	18 20	Elnath	278 10.2	N 28 37.1	
23	39 42.6	168 50.7	S 18 35.0	N 1	5 8	5 43	17 47	18 21	Eltanin	90 45.8	N 51 29.6	
16	0	54 45.1	183 50.6	S 18 35.6	S 1	5 5	5 40	17 50	18 24	Enif	33 45.5	N 9 57.1
	1	69 47.5	198 50.5	S 18 36.3	S 2	5 4	5 38	17 51	18 26	Formalhaut	15 22.2	S 29 32.3
	2	84 50.0	213 50.4	S 18 36.9	S 3	5 2	5 37	17 52	18 27	Gacrux	171 59.4	S 57 11.8
	3	99 52.5	228 50.3	S 18 37.5	S 4	5 1	5 36	17 54	18 28	Hadar	148 46.0	S 60 26.7
	4	114 54.9	243 50.2	S 18 38.2	S 5	5 0	5 34	17 55	18 30	Hamal	327 58.6	N 23 32.3
	5	129 57.4	258 50.0	S 18 38.8	S 6	4 58	5 33	17 56	18 31	Kaus Aust	83 42.0	S 34 22.4
	6	144 59.8	273 49.9	S 18 39.4	S 7	4 57	5 32	17 58	18 33	Kochab	137 21.4	N 74 5.5
	7	160 2.3	288 49.8	S 18 40.0	S 8	4 55	5 30	17 59	18 34	Markab	13 36.6	N 15 17.7
	8	175 4.8	303 49.7	S 18 40.7	S 9	4 53	5 29	18 1	18 36	Menkent	148 5.8	S 36 26.5
	9	190 7.2	318 49.6	S 18 41.3	S 10	4 52	5 27	18 2	18 37	Miaplacidu	221 38.9	S 69 46.8
	10	205 9.7	333 49.5	S 18 41.9	S 11	4 51	5 26	18 3	18 39	Mirfak	308 37.5	N 49 54.9
	11	220 12.2	348 49.4	S 18 42.6	S 12	4 49	5 25	18 5	18 41	Nunki	75 56.6	S 26 16.4
	12	235 14.6	3 49.3	S 18 43.2	S 13	4 47	5 23	18 6	18 42	Peacock	53 17.0	S 56 41.0
	13	250 17.1	18 49.1	S 18 43.8	S 14	4 46	5 22	18 8	18 44	Pollux	243 25.4	N 27 59.0
	14	265 19.6	33 49.0	S 18 44.4	S 15	4 44	5 20	18 9	18 46	Procyon	244 57.7	N 5 11.2
	15	280 22.0	48 48.9	S 18 45.0	S 20	4 35	5 13	18 17	18 54	Rasalhague	96 5.3	N 12 33.3
	16	295 24.5	63 48.8	S 18 45.7	S 25	4 25	5 5	18 25	19 4	Regulus	207 41.8	N 11 53.3
	17	310 27.0	78 48.7	S 18 46.3	S 30	4 14	4 56	18 34	19 16	Rigel	281 10.2	S 8 11.1
	18	325 29.4	93 48.6	S 18 46.9	S 35	4 1	4 46	18 44	19 29	Rigel Kent	139 48.1	S 60 54.0
	19	340 31.9	108 48.5	S 18 47.5	S 40	3 45	4 34	18 56	19 45	Schedar	349 38.1	N 56 37.7
	20	355 34.3	123 48.3	S 18 48.2	S 45	3 25	4 21	19 9	20 5	Shaula	96 20.1	S 37 6.7
	21	10 36.8	138 48.2	S 18 48.8	S 50	3 0	4 4	19 26	20 31	Sirius	258 31.9	S 16 44.0
	22	25 39.3	153 48.1	S 18 49.4	S 55	2 24	3 43	19 48	21 8	Spica	158 29.8	S 11 14.4
23	40 41.7	168 48.0	S 18 50.0	S 60	1 21	3 13	20 18	22 13	Vega	80 38.2	N 38 48.2	
Día	Sol				Luna							
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día	Porcentaje de iluminación		Fase				
15	m s	m s		h m								
16	15 32	15 27	0.6	11 45	3.3	10						
	15 22	15 17	0.6	11 45	4.3	17						

Tabla G. Martes 17 de noviembre – miércoles 18 de noviembre de 2015.

Día	TU	Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		Aries	Sol							Nombre	SHA	Dec.
		GHA	GHA	Dec.		h m	h m	h m	h m			
17	h	° /	° /	° /	°							
	0	55 44.2	183 47.9	S 18 50.6	N 60	6 48	8 5	15 25	16 42	Achernar	335 25.2	S 57 9.6
	1	70 46.7	198 47.8	S 18 51.3	N 55	6 33	7 37	15 52	16 57	Acrux	173 7.8	S 63 10.9
	2	85 49.1	213 47.6	S 18 51.9	N 50	6 21	7 17	16 13	17 9	Adhara	255 11.0	S 28 59.6
	3	100 51.6	228 47.5	S 18 52.5	N 45	6 11	7 1	16 28	17 19	Aldebaran	290 47.2	N 16 32.4
	4	115 54.1	243 47.4	S 18 53.1	N 40	6 2	6 48	16 42	17 27	Alioth	166 19.9	N 55 52.3
	5	130 56.5	258 47.3	S 18 53.7	N 35	5 54	6 37	16 53	17 35	Alkaid	152 58.1	N 49 14.1
	6	145 59.0	273 47.2	S 18 54.3	N 30	5 47	6 27	17 3	17 43	Alnair	27 41.8	S 46 53.1
	7	161 1.5	288 47.0	S 18 54.9	N 25	5 40	6 18	17 11	17 50	Alnilam	275 44.4	S 1 11.7
	8	176 3.9	303 46.9	S 18 55.6	N 20	5 34	6 10	17 20	17 56	Alphard	217 54.5	S 8 43.7
	9	191 6.4	318 46.8	S 18 56.2	N 15	5 27	6 3	17 27	18 3	Alpheratz	357 41.6	N 29 10.9
	10	206 8.8	333 46.7	S 18 56.8	N 14	5 26	6 1	17 29	18 4	Altair	62 7.0	N 8 54.8
	11	221 11.3	348 46.6	S 18 57.4	N 13	5 24	6 0	17 30	18 6	Antares	112 24.6	S 26 27.8
	12	236 13.8	3 46.4	S 18 58.0	N 12	5 23	5 58	17 32	18 7	Arcturus	145 54.3	N 19 6.7
	13	251 16.2	18 46.3	S 18 58.6	N 11	5 22	5 57	17 33	18 8	Atria	107 25.5	S 69 3.2
	14	266 18.7	33 46.2	S 18 59.2	N 10	5 20	5 56	17 34	18 10	Avior	234 17.0	S 59 33.5
	15	281 21.2	48 46.1	S 18 59.8	N 9	5 19	5 54	17 36	18 11	Bellatrix	278 30.0	N 6 21.7
	16	296 23.6	63 46.0	S 19 0.4	N 8	5 18	5 53	17 37	18 12	Betelgeuse	270 59.3	N 7 24.4
	17	311 26.1	78 45.8	S 19 1.1	N 7	5 16	5 51	17 39	18 14	Canopus	263 55.0	S 52 42.2
	18	326 28.6	93 45.7	S 19 1.7	N 6	5 15	5 50	17 40	18 15	Capella	280 31.6	N 46 0.7
	19	341 31.0	108 45.6	S 19 2.3	N 5	5 14	5 48	17 42	18 16	Deneb	49 30.5	N 45 20.7
	20	356 33.5	123 45.5	S 19 2.9	N 4	5 12	5 47	17 43	18 18	Denebola	182 32.1	N 14 29.0
	21	11 35.9	138 45.3	S 19 3.5	N 3	5 11	5 46	17 44	18 19	Dubhe	193 50.0	N 61 39.6
22	26 38.4	153 45.2	S 19 4.1	N 2	5 10	5 44	17 46	18 20	Elnath	278 10.2	N 28 37.1	
23	41 40.9	168 45.1	S 19 4.7	N 1	5 8	5 43	17 47	18 22	Eltanin	90 45.8	N 51 29.6	
				0	5 7	5 42	17 49	18 23				
18	0	56 43.3	183 45.0	S 19 5.3	S 1	5 5	5 40	17 50	18 25	Enif	33 45.5	N 9 57.1
	1	71 45.8	198 44.8	S 19 5.9	S 2	5 4	5 39	17 51	18 26	Formalhaut	15 22.2	S 29 32.3
	2	86 48.3	213 44.7	S 19 6.5	S 3	5 3	5 37	17 53	18 28	Gacrux	171 59.4	S 57 11.8
	3	101 50.7	228 44.6	S 19 7.1	S 4	5 1	5 36	17 54	18 29	Hadar	148 46.0	S 60 26.7
	4	116 53.2	243 44.5	S 19 7.7	S 5	5 0	5 35	17 56	18 31	Hamal	327 58.6	N 23 32.3
	5	131 55.7	258 44.3	S 19 8.3	S 6	4 58	5 33	17 57	18 32	Kaus Aust	83 42.0	S 34 22.4
	6	146 58.1	273 44.2	S 19 8.9	S 7	4 57	5 32	17 58	18 34	Kochab	137 21.4	N 74 5.5
	7	162 0.6	288 44.1	S 19 9.5	S 8	4 55	5 30	18 0	18 35	Markab	13 36.6	N 15 17.7
	8	177 3.1	303 43.9	S 19 10.1	S 9	4 53	5 29	18 2	18 37	Menkent	148 5.8	S 36 26.5
	9	192 5.5	318 43.8	S 19 10.7	S 10	4 52	5 27	18 3	18 38	Miaplacidu	221 38.9	S 69 46.8
	10	207 8.0	333 43.7	S 19 11.3	S 11	4 50	5 26	18 4	18 40	Mirfak	308 37.5	N 49 54.9
	11	222 10.4	348 43.6	S 19 11.9	S 12	4 49	5 25	18 6	18 42	Nunki	75 56.6	S 26 16.4
	12	237 12.9	3 43.4	S 19 12.5	S 13	4 47	5 23	18 7	18 43	Peacock	53 17.0	S 56 41.0
	13	252 15.4	18 43.3	S 19 13.1	S 14	4 45	5 22	18 9	18 45	Pollux	243 25.4	N 27 59.0
	14	267 17.8	33 43.2	S 19 13.7	S 15	4 44	5 20	18 10	18 47	Procyon	244 57.7	N 5 11.2
	15	282 20.3	48 43.0	S 19 14.3	S 20	4 35	5 12	18 18	18 56	Rasalhague	96 5.3	N 12 33.3
	16	297 22.8	63 42.9	S 19 14.9	S 25	4 24	5 4	18 26	19 6	Regulus	207 41.8	N 11 53.3
	17	312 25.2	78 42.8	S 19 15.5	S 30	4 13	4 55	18 36	19 18	Rigel	281 10.2	S 8 11.1
	18	327 27.7	93 42.6	S 19 16.1	S 35	3 59	4 44	18 46	19 31	Rigel Kent	139 48.1	S 60 54.0
	19	342 30.2	108 42.5	S 19 16.7	S 40	3 43	4 33	18 58	19 48	Schedar	349 38.1	N 56 37.7
	20	357 32.6	123 42.4	S 19 17.2	S 45	3 33	4 19	19 12	20 8	Shaula	96 20.1	S 37 6.7
	21	12 35.1	138 42.2	S 19 17.8	S 50	2 57	4 1	19 30	20 35	Sirius	258 31.9	S 16 44.0
	22	27 37.6	153 42.1	S 19 18.4	S 55	2 19	3 39	19 52	21 14	Spica	158 29.8	S 11 14.4
23	42 40.0	168 42.0	S 19 19.0	S 60	1 11	3 9	20 23	22 24	Vega	80 38.2	N 38 48.2	
		Sol				Luna						
Día		Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día	Porcentaje de iluminación		Fase			
		m s	m s		h m							
17		15 11	15 6	0.6	11 45	5.3	26					
18		15 0	14 54	0.6	11 45	6.4	36					

Tabla G. Jueves 19 de noviembre – viernes 20 de noviembre de 2015.


Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
		° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m	h m	h m	° / ' / "	° / ' / "	° / ' / "	
19	h														
	0	57 42.5	183 41.8	S 19 19.6	N 60	6 52	8 9	15 21	16 38	Achernar	335 25.2	S 57 9.6			
	1	72 44.9	198 41.7	S 19 20.2	N 55	6 36	7 41	15 49	16 54	Acrux	173 7.8	S 63 10.9			
	2	87 47.4	213 41.6	S 19 20.8	N 50	6 24	7 20	16 10	17 7	Adhara	255 11.0	S 28 59.6			
	3	102 49.9	228 41.4	S 19 21.4	N 45	6 13	7 4	16 27	17 17	Aldebaran	290 47.2	N 16 32.4			
	4	117 52.3	243 41.3	S 19 22.0	N 40	6 4	6 50	16 40	17 26	Alioth	166 19.9	N 55 52.3			
	5	132 54.8	258 41.2	S 19 22.5	N 35	5 56	6 39	16 52	17 34	Alkaid	152 58.1	N 49 14.1			
	6	147 57.3	273 41.0	S 19 23.1	N 30	5 49	6 29	17 2	17 42	Alnair	27 41.8	S 46 53.1			
	7	162 59.7	288 40.9	S 19 23.7	N 25	5 42	6 20	17 11	17 49	Alnilam	275 44.4	S 1 11.7			
	8	178 2.2	303 40.8	S 19 24.3	N 20	5 35	6 12	17 19	17 56	Alphard	217 54.4	S 8 43.7			
	9	193 4.7	318 40.6	S 19 24.9	N 15	5 28	6 4	17 27	18 3	Alpheratz	357 41.6	N 29 10.9			
	10	208 7.1	333 40.5	S 19 25.5	N 14	5 27	6 2	17 29	18 4	Altair	62 7.0	N 8 54.8			
	11	223 9.6	348 40.3	S 19 26.1	N 13	5 25	6 1	17 30	18 6	Antares	112 24.6	S 26 27.8			
	12	238 12.0	3 40.2	S 19 26.6	N 12	5 24	5 59	17 32	18 7	Arcturus	145 54.3	N 19 6.7			
	13	253 14.5	18 40.1	S 19 27.2	N 11	5 22	5 58	17 33	18 8	Atria	107 25.5	S 69 3.2			
	14	268 17.0	33 39.9	S 19 27.8	N 10	5 21	5 56	17 35	18 10	Avior	234 17.0	S 59 33.5			
	15	283 19.4	48 39.8	S 19 28.4	N 9	5 20	5 55	17 36	18 11	Bellatrix	278 30.0	N 6 21.7			
	16	298 21.9	63 39.6	S 19 29.0	N 8	5 18	5 53	17 37	18 13	Betelgeuse	270 59.3	N 7 24.4			
	17	313 24.4	78 39.5	S 19 29.5	N 7	5 17	5 52	17 39	18 14	Canopus	263 55.0	S 52 42.3			
	18	328 26.8	93 39.4	S 19 30.1	N 6	5 16	5 51	17 40	18 15	Capella	280 31.6	N 46 0.7			
	19	343 29.3	108 39.2	S 19 30.7	N 5	5 14	5 49	17 42	18 17	Deneb	49 30.5	N 45 20.6			
	20	358 31.8	123 39.1	S 19 31.3	N 4	5 13	5 48	17 43	18 18	Denebola	182 32.1	N 14 29.0			
	21	13 34.2	138 38.9	S 19 31.9	N 3	5 11	5 46	17 45	18 20	Dubhe	193 50.0	N 61 39.6			
22	28 36.7	153 38.8	S 19 32.4	N 2	5 10	5 45	17 46	18 21	Elnath	278 10.2	N 28 37.1				
23	43 39.2	168 38.7	S 19 33.0	N 1	5 9	5 43	17 48	18 22	Eltanin	90 45.8	N 51 29.6				
					0	5 7	5 42	17 49	18 24						
					S 1	5 6	5 41	17 50	18 25	Enif	33 45.5	N 9 57.1			
					S 2	5 4	5 39	17 52	18 27	Formalhaut	15 22.2	S 29 32.3			
					S 3	5 3	5 38	17 53	18 28	Gacrux	171 59.3	S 57 11.8			
					S 4	5 1	5 36	17 55	18 30	Hadar	148 46.0	S 60 26.7			
					S 5	5 0	5 35	17 56	18 31	Hamal	327 58.6	N 23 32.3			
					S 6	4 58	5 33	17 58	18 33	Kaus Aust	83 42.0	S 34 22.4			
					S 7	4 57	5 32	17 59	18 34	Kochab	137 21.4	N 74 5.5			
					S 8	4 55	5 30	18 1	18 36	Markab	13 36.6	N 15 17.6			
					S 9	4 53	5 29	18 2	18 38	Menkent	148 5.8	S 36 26.5			
					S 10	4 52	5 28	18 4	18 39	Miaplacidu	221 38.9	S 69 46.8			
					S 11	4 50	5 26	18 5	18 41	Mirfak	308 37.4	N 49 54.9			
					S 12	4 49	5 25	18 7	18 43	Nunki	75 56.6	S 26 16.4			
					S 13	4 47	5 23	18 8	18 44	Peacock	53 17.0	S 56 41.0			
					S 14	4 45	5 21	18 10	18 46	Pollux	243 25.4	N 27 59.0			
					S 15	4 43	5 20	18 11	18 48	Procyon	244 57.7	N 5 11.2			
					S 20	4 34	5 12	18 19	18 57	Rasalhague	96 5.3	N 12 33.3			
					S 25	4 24	5 3	18 28	19 8	Regulus	207 41.8	N 11 53.3			
					S 30	4 12	4 54	18 37	19 20	Rigel	281 10.2	S 8 11.1			
					S 35	3 58	4 43	18 48	19 34	Rigel Kent	139 48.1	S 60 54.0			
					S 40	3 41	4 31	19 0	19 50	Schedar	349 38.2	N 56 37.7			
					S 45	3 21	4 17	19 15	20 11	Shaula	96 20.1	S 37 6.7			
					S 50	2 53	3 59	19 33	20 39	Sirius	258 31.9	S 16 44.0			
					S 55	2 14	3 36	19 56	21 19	Spica	158 29.8	S 11 14.4			
					S 60	1 0	3 4	20 28	22 37	Vega	80 38.2	N 38 48.2			
Sol													Luna		
Día	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase						
	m s	m s		h m											
19	14 47	14 41	0.6	11 45		7.4	47								
20	14 34	14 27	0.6	11 46		8.4	58								

Tabla G. Sábado 21 de noviembre – domingo 22 de noviembre de 2015.


Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
	h	° /	° /	° /	°	h m	h m	h m	h m	h m	h m		° /	° /	
21	0	59 40.8	183 35.0	S 19 47.2	N 60	6 56	8 14	15 17	16 36	Achernar	335 25.2	S 57 9.6			
	1	74 43.2	198 34.8	S 19 47.8	N 55	6 39	7 45	15 47	16 52	Acrux	173 7.7	S 63 10.9			
	2	89 45.7	213 34.7	S 19 48.3	N 50	6 27	7 23	16 8	17 5	Adhara	255 11.0	S 28 59.7			
	3	104 48.2	228 34.5	S 19 48.9	N 45	6 16	7 6	16 25	17 16	Aldebaran	290 47.2	N 16 32.4			
	4	119 50.6	243 34.4	S 19 49.4	N 40	6 6	6 53	16 39	17 25	Alioth	166 19.8	N 55 52.3			
	5	134 53.1	258 34.2	S 19 50.0	N 35	5 58	6 41	16 51	17 34	Alkaid	152 58.1	N 49 14.0			
	6	149 55.5	273 34.1	S 19 50.5	N 30	5 50	6 31	17 1	17 42	Alnair	27 41.8	S 46 53.1			
	7	164 58.0	288 33.9	S 19 51.1	N 25	5 43	6 21	17 10	17 49	Alnilam	275 44.4	S 1 11.7			
	8	180 0.5	303 33.8	S 19 51.7	N 20	5 36	6 13	17 19	17 56	Alphard	217 54.4	S 8 43.7			
	9	195 2.9	318 33.6	S 19 52.2	N 15	5 29	6 5	17 27	18 3	Alpheratz	357 41.6	N 29 10.9			
	10	210 5.4	333 33.5	S 19 52.8	N 14	5 27	6 3	17 29	18 4	Altair	62 7.0	N 8 54.8			
	11	225 7.9	348 33.3	S 19 53.3	N 13	5 26	6 2	17 30	18 6	Antares	112 24.6	S 26 27.8			
	12	240 10.3	3 33.2	S 19 53.9	N 12	5 25	6 0	17 32	18 7	Arcturus	145 54.3	N 19 6.7			
	13	255 12.8	18 33.0	S 19 54.4	N 11	5 23	5 59	17 33	18 9	Atria	107 25.5	S 69 3.1			
	14	270 15.3	33 32.8	S 19 55.0	N 10	5 22	5 57	17 35	18 10	Avior	234 17.0	S 59 33.5			
	15	285 17.7	48 32.7	S 19 55.5	N 9	5 20	5 56	17 36	18 11	Bellatrix	278 29.9	N 6 21.7			
	16	300 20.2	63 32.5	S 19 56.1	N 8	5 19	5 54	17 38	18 13	Betelgeuse	270 59.3	N 7 24.4			
	17	315 22.6	78 32.4	S 19 56.6	N 7	5 18	5 53	17 39	18 14	Canopus	263 55.0	S 52 42.3			
	18	330 25.1	93 32.2	S 19 57.2	N 6	5 16	5 51	17 41	18 16	Capella	280 31.6	N 46 0.7			
	19	345 27.6	108 32.1	S 19 57.7	N 5	5 15	5 50	17 42	18 17	Deneb	49 30.5	N 45 20.6			
	20	0 30.0	123 31.9	S 19 58.3	N 4	5 13	5 48	17 44	18 19	Denebola	182 32.0	N 14 29.0			
	21	15 32.5	138 31.7	S 19 58.8	N 3	5 12	5 47	17 45	18 20	Dubhe	193 50.0	N 61 39.6			
	22	30 35.0	153 31.6	S 19 59.4	N 2	5 11	5 45	17 47	18 21	Elnath	278 10.2	N 28 37.1			
23	45 37.4	168 31.4	S 19 59.9	N 1	5 9	5 44	17 48	18 23	Eltanin	90 45.9	N 51 29.6				
22	0	60 39.9	183 31.3	S 20 0.4	S 1	5 6	5 41	17 51	18 26	Enif	33 45.6	N 9 57.1			
	1	75 42.4	198 31.1	S 20 1.0	S 2	5 5	5 40	17 52	18 27	Formalhaut	15 22.3	S 29 32.3			
	2	90 44.8	213 31.0	S 20 1.5	S 3	5 3	5 38	17 54	18 29	Gacrux	171 59.3	S 57 11.8			
	3	105 47.3	228 30.8	S 20 2.1	S 4	5 2	5 37	17 55	18 31	Hadar	148 46.0	S 60 26.7			
	4	120 49.8	243 30.6	S 20 2.6	S 5	5 0	5 35	17 57	18 32	Hamal	327 58.6	N 23 32.3			
	5	135 52.2	258 30.5	S 20 3.2	S 6	4 58	5 34	17 58	18 34	Kaus Aust	83 42.0	S 34 22.4			
	6	150 54.7	273 30.3	S 20 3.7	S 7	4 57	5 32	18 0	18 35	Kochab	137 21.4	N 74 5.5			
	7	165 57.1	288 30.1	S 20 4.2	S 8	4 55	5 31	18 1	18 37	Markab	13 36.6	N 15 17.6			
	8	180 59.6	303 30.0	S 20 4.8	S 9	4 53	5 29	18 3	18 39	Menkent	148 5.8	S 36 26.5			
	9	196 2.1	318 29.8	S 20 5.3	S 10	4 52	5 28	18 4	18 40	Miaplacidu	221 38.8	S 69 46.8			
	10	211 4.5	333 29.7	S 20 5.9	S 11	4 50	5 26	18 6	18 42	Mirfak	308 37.4	N 49 55.0			
	11	226 7.0	348 29.5	S 20 6.4	S 12	4 49	5 25	18 8	18 44	Nunki	75 56.6	S 26 16.4			
	12	241 9.5	3 29.3	S 20 6.9	S 13	4 47	5 23	18 9	18 45	Peacock	53 17.0	S 56 41.0			
	13	256 11.9	18 29.2	S 20 7.5	S 14	4 45	5 21	18 11	18 47	Pollux	243 25.4	N 27 59.0			
	14	271 14.4	33 29.0	S 20 8.0	S 15	4 43	5 20	18 12	18 49	Procyon	244 57.7	N 5 11.2			
	15	286 16.9	48 28.8	S 20 8.5	S 20	4 34	5 12	18 21	18 59	Rasalhague	96 5.3	N 12 33.3			
	16	301 19.3	63 28.7	S 20 9.1	S 25	4 23	5 3	18 29	19 9	Regulus	207 41.8	N 11 53.3			
	17	316 21.8	78 28.5	S 20 9.6	S 30	4 11	4 53	18 39	19 22	Rigel	281 10.2	S 8 11.1			
	18	331 24.3	93 28.4	S 20 10.1	S 35	3 57	4 42	18 50	19 36	Rigel Kent	139 48.1	S 60 53.9			
	19	346 26.7	108 28.2	S 20 10.7	S 40	3 40	4 30	19 3	19 53	Schedar	349 38.2	N 56 37.7			
	20	1 29.2	123 28.0	S 20 11.2	S 45	3 18	4 15	19 18	20 15	Shaula	96 20.1	S 37 6.7			
	21	16 31.6	138 27.9	S 20 11.7	S 50	2 50	3 57	19 36	20 43	Sirius	258 31.9	S 16 44.0			
	22	31 34.1	153 27.7	S 20 12.3	S 55	2 9	3 33	20 0	21 25	Spica	158 29.8	S 11 14.4			
23	46 36.6	168 27.5	S 20 12.8	S 60	0 48	3 0	20 33	22 51	Vega	80 38.3	N 38 48.2				
		Sol			Luna										
Día	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día	Porcentaje de iluminación		Fase							
	m s	m s		h m											
21	14 20	14 13	0.5	11 46	9.5	69									
22	14 5	13 57	0.5	11 46	10.5	79									

Tabla G. Lunes 23 de noviembre – martes 24 de noviembre de 2015.


Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
		° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m	h m	h m	° / ' / "	° / ' / "	° / ' / "	
23	0	61 39.0	183 27.4	S 20 13.3	N 60	6 59	8 19	15 14	16 33	Achernar	335 25.3	S 57 9.6			
	1	76 41.5	198 27.2	S 20 13.9	N 55	6 43	7 48	15 44	16 50	Acruz	173 7.7	S 63 10.9			
	2	91 44.0	213 27.0	S 20 14.4	N 50	6 29	7 26	16 6	17 3	Adhara	255 11.0	S 28 59.7			
	3	106 46.4	228 26.9	S 20 14.9	N 45	6 18	7 9	16 24	17 15	Aldebaran	290 47.2	N 16 32.4			
	4	121 48.9	243 26.7	S 20 15.4	N 40	6 8	6 55	16 38	17 24	Alioth	166 19.8	N 55 52.3			
	5	136 51.4	258 26.5	S 20 16.0	N 35	6 0	6 43	16 50	17 33	Alkaid	152 58.1	N 49 14.0			
	6	151 53.8	273 26.3	S 20 16.5	N 30	5 52	6 32	17 1	17 41	Alnair	27 41.8	S 46 53.1			
	7	166 56.3	288 26.2	S 20 17.0	N 25	5 44	6 23	17 10	17 49	Alnilam	275 44.4	S 1 11.7			
	8	181 58.7	303 26.0	S 20 17.5	N 20	5 37	6 14	17 19	17 56	Alphard	217 54.4	S 8 43.7			
	9	197 1.2	318 25.8	S 20 18.1	N 15	5 30	6 6	17 27	18 3	Alpheratz	357 41.6	N 29 10.9			
	10	212 3.7	333 25.7	S 20 18.6	N 14	5 28	6 4	17 29	18 5	Altair	62 7.0	N 8 54.8			
	11	227 6.1	348 25.5	S 20 19.1	N 13	5 27	6 3	17 30	18 6	Antares	112 24.6	S 26 27.8			
	12	242 8.6	3 25.3	S 20 19.6	N 12	5 25	6 1	17 32	18 7	Arcturus	145 54.3	N 19 6.7			
	13	257 11.1	18 25.2	S 20 20.2	N 11	5 24	6 0	17 33	18 9	Atria	107 25.5	S 69 3.1			
	14	272 13.5	33 25.0	S 20 20.7	N 10	5 23	5 58	17 35	18 10	Avior	234 17.0	S 59 33.5			
	15	287 16.0	48 24.8	S 20 21.2	N 9	5 21	5 57	17 36	18 12	Bellatrix	278 29.9	N 6 21.7			
	16	302 18.5	63 24.6	S 20 21.7	N 8	5 20	5 55	17 38	18 13	Betelgeuse	270 59.2	N 7 24.4			
	17	317 20.9	78 24.5	S 20 22.2	N 7	5 18	5 53	17 40	18 15	Canopus	263 55.0	S 52 42.3			
	18	332 23.4	93 24.3	S 20 22.8	N 6	5 17	5 52	17 41	18 16	Capella	280 31.6	N 46 0.7			
	19	347 25.9	108 24.1	S 20 23.3	N 5	5 15	5 50	17 43	18 18	Deneb	49 30.5	N 45 20.6			
	20	2 28.3	123 23.9	S 20 23.8	N 4	5 14	5 49	17 44	18 19	Denebola	182 32.0	N 14 29.0			
	21	17 30.8	138 23.8	S 20 24.3	N 3	5 12	5 47	17 46	18 21	Dubhe	193 50.0	N 61 39.6			
	22	32 33.2	153 23.6	S 20 24.8	N 2	5 11	5 46	17 47	18 22	Elnath	278 10.2	N 28 37.1			
23	47 35.7	168 23.4	S 20 25.3	N 1	5 10	5 44	17 49	18 24	Eltanin	90 45.9	N 51 29.6				
24	0	62 38.2	183 23.2	S 20 25.9	S 1	5 6	5 41	17 52	18 27	Enif	33 45.6	N 9 57.1			
	1	77 40.6	198 23.1	S 20 26.4	S 2	5 5	5 40	17 53	18 28	Formalhaut	15 22.3	S 29 32.3			
	2	92 43.1	213 22.9	S 20 26.9	S 3	5 3	5 38	17 55	18 30	Gacrux	171 59.3	S 57 11.7			
	3	107 45.6	228 22.7	S 20 27.4	S 4	5 2	5 37	17 56	18 31	Hadar	148 46.0	S 60 26.6			
	4	122 48.0	243 22.5	S 20 27.9	S 5	5 0	5 35	17 58	18 33	Hamal	327 58.6	N 23 32.3			
	5	137 50.5	258 22.4	S 20 28.4	S 6	4 59	5 34	17 59	18 35	Kaus Aust	83 42.0	S 34 22.4			
	6	152 53.0	273 22.2	S 20 28.9	S 7	4 57	5 32	18 1	18 36	Kochab	137 21.4	N 74 5.4			
	7	167 55.4	288 22.0	S 20 29.4	S 8	4 55	5 31	18 2	18 38	Markab	13 36.6	N 15 17.6			
	8	182 57.9	303 21.8	S 20 29.9	S 9	4 53	5 29	18 4	18 40	Menkent	148 5.8	S 36 26.5			
	9	198 0.4	318 21.7	S 20 30.4	S 10	4 52	5 28	18 5	18 41	Miaplacidu	221 38.8	S 69 46.8			
	10	213 2.8	333 21.5	S 20 31.0	S 11	4 50	5 26	18 7	18 43	Mirfak	308 37.4	N 49 55.0			
	11	228 5.3	348 21.3	S 20 31.5	S 12	4 49	5 25	18 8	18 45	Nunki	75 56.6	S 26 16.4			
	12	243 7.7	3 21.1	S 20 32.0	S 13	4 47	5 23	18 10	18 46	Peacock	53 17.0	S 56 41.0			
	13	258 10.2	18 20.9	S 20 32.5	S 14	4 45	5 21	18 12	18 48	Pollux	243 25.4	N 27 59.0			
	14	273 12.7	33 20.8	S 20 33.0	S 15	4 43	5 20	18 13	18 50	Procyon	244 57.6	N 5 11.2			
	15	288 15.1	48 20.6	S 20 33.5	S 20	4 33	5 11	18 22	19 0	Rasalhague	96 5.3	N 12 33.3			
	16	303 17.6	63 20.4	S 20 34.0	S 25	4 22	5 2	18 31	19 11	Regulus	207 41.7	N 11 53.3			
	17	318 20.1	78 20.2	S 20 34.5	S 30	4 10	4 53	18 41	19 23	Rigel	281 10.2	S 8 11.1			
	18	333 22.5	93 20.0	S 20 35.0	S 35	3 56	4 41	18 52	19 38	Rigel Kent	139 48.1	S 60 53.9			
	19	348 25.0	108 19.9	S 20 35.5	S 40	3 38	4 29	19 5	19 56	Schedar	349 38.2	N 56 37.7			
	20	3 27.5	123 19.7	S 20 36.0	S 45	3 16	4 13	19 20	20 18	Shaula	96 20.1	S 37 6.7			
	21	18 29.9	138 19.5	S 20 36.5	S 50	2 47	3 55	19 39	20 47	Sirius	258 31.9	S 16 44.0			
	22	33 32.4	153 19.3	S 20 37.0	S 55	2 5	3 30	20 4	21 30	Spica	158 29.8	S 11 14.4			
23	48 34.8	168 19.1	S 20 37.5	S 60	0 33	2 56	20 39	23 9	Vega	80 38.3	N 38 48.2				
		Sol			Luna										
Día	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día	Porcentaje de iluminación		Fase							
	m s	m s		h m											
23	13 49	13 41	0.5	11 46	11.6	88									
24	13 33	13 24	0.5	11 47	12.6	94									

Tabla G. Miércoles 25 de noviembre – jueves 26 de noviembre de 2015.


Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
25	h	° /	° /	° /	°	h m	h m	h m	h m						
	0	63 37.3	183 18.9	S 20 38.0	N 60	7 3	8 24	15 10	16 30	Achernar	335 25.3	S 57 9.6			
	1	78 39.8	198 18.8	S 20 38.5	N 55	6 46	7 52	15 42	16 48	Acrux	173 7.7	S 63 10.9			
	2	93 42.2	213 18.6	S 20 39.0	N 50	6 32	7 29	16 5	17 2	Adhara	255 10.9	S 28 59.7			
	3	108 44.7	228 18.4	S 20 39.5	N 45	6 20	7 12	16 22	17 14	Aldebaran	290 47.2	N 16 32.3			
	4	123 47.2	243 18.2	S 20 40.0	N 40	6 10	6 57	16 37	17 24	Alioth	166 19.8	N 55 52.3			
	5	138 49.6	258 18.0	S 20 40.5	N 35	6 1	6 45	16 49	17 33	Alkaid	152 58.1	N 49 14.0			
	6	153 52.1	273 17.8	S 20 41.0	N 30	5 53	6 34	17 0	17 41	Alnair	27 41.8	S 46 53.1			
	7	168 54.6	288 17.7	S 20 41.5	N 25	5 45	6 24	17 10	17 49	Alnilam	275 44.4	S 1 11.7			
	8	183 57.0	303 17.5	S 20 42.0	N 20	5 38	6 15	17 19	17 56	Alphard	217 54.4	S 8 43.7			
	9	198 59.5	318 17.3	S 20 42.4	N 15	5 31	6 7	17 27	18 3	Alpheratz	357 41.6	N 29 10.9			
	10	214 2.0	333 17.1	S 20 42.9	N 14	5 29	6 5	17 29	18 5	Altair	62 7.0	N 8 54.8			
	11	229 4.4	348 16.9	S 20 43.4	N 13	5 28	6 4	17 30	18 6	Antares	112 24.6	S 26 27.8			
	12	244 6.9	3 16.7	S 20 43.9	N 12	5 26	6 2	17 32	18 8	Arcturus	145 54.3	N 19 6.6			
	13	259 9.3	18 16.5	S 20 44.4	N 11	5 25	6 1	17 34	18 9	Atria	107 25.5	S 69 3.1			
	14	274 11.8	33 16.4	S 20 44.9	N 10	5 23	5 59	17 35	18 11	Avior	234 16.9	S 59 33.5			
	15	289 14.3	48 16.2	S 20 45.4	N 9	5 22	5 57	17 37	18 12	Bellatrix	278 29.9	N 6 21.7			
	16	304 16.7	63 16.0	S 20 45.9	N 8	5 21	5 56	17 38	18 14	Betelgeuse	270 59.2	N 7 24.4			
	17	319 19.2	78 15.8	S 20 46.4	N 7	5 19	5 54	17 40	18 15	Canopus	263 54.9	S 52 42.3			
	18	334 21.7	93 15.6	S 20 46.8	N 6	5 18	5 53	17 41	18 17	Capella	280 31.6	N 46 0.7			
	19	349 24.1	108 15.4	S 20 47.3	N 5	5 16	5 51	17 43	18 18	Deneb	49 30.5	N 45 20.6			
	20	4 26.6	123 15.2	S 20 47.8	N 4	5 15	5 50	17 45	18 20	Denebola	182 32.0	N 14 29.0			
	21	19 29.1	138 15.0	S 20 48.3	N 3	5 13	5 48	17 46	18 21	Dubhe	193 49.9	N 61 39.6			
22	34 31.5	153 14.8	S 20 48.8	N 2	5 12	5 47	17 48	18 23	Elnath	278 10.2	N 28 37.1				
23	49 34.0	168 14.6	S 20 49.3	N 1	5 10	5 45	17 49	18 24	Eltanin	90 45.9	N 51 29.6				
26	0	64 36.5	183 14.5	S 20 49.7	S 1	5 7	5 42	17 52	18 27	Enif	33 45.6	N 9 57.1			
	1	79 38.9	198 14.3	S 20 50.2	S 2	5 5	5 41	17 54	18 29	Formalhaut	15 22.3	S 29 32.3			
	2	94 41.4	213 14.1	S 20 50.7	S 3	5 4	5 39	17 55	18 31	Gacrux	171 59.3	S 57 11.7			
	3	109 43.8	228 13.9	S 20 51.2	S 4	5 2	5 37	17 57	18 32	Hadar	148 46.0	S 60 26.6			
	4	124 46.3	243 13.7	S 20 51.7	S 5	5 1	5 36	17 58	18 34	Hamal	327 58.6	N 23 32.3			
	5	139 48.8	258 13.5	S 20 52.1	S 6	4 59	5 34	18 0	18 35	Kaus Aust	83 42.0	S 34 22.4			
	6	154 51.2	273 13.3	S 20 52.6	S 7	4 57	5 33	18 2	18 37	Kochab	137 21.4	N 74 5.4			
	7	169 53.7	288 13.1	S 20 53.1	S 8	4 56	5 31	18 3	18 39	Markab	13 36.6	N 15 17.6			
	8	184 56.2	303 12.9	S 20 53.6	S 9	4 54	5 29	18 5	18 41	Menkent	148 5.8	S 36 26.5			
	9	199 58.6	318 12.7	S 20 54.1	S 10	4 52	5 28	18 6	18 42	Miaplacidu	221 38.7	S 69 46.8			
	10	215 1.1	333 12.5	S 20 54.5	S 11	4 50	5 26	18 8	18 44	Mirfak	308 37.4	N 49 55.0			
	11	230 3.6	348 12.3	S 20 55.0	S 12	4 49	5 25	18 9	18 46	Nunki	75 56.6	S 26 16.4			
	12	245 6.0	3 12.1	S 20 55.5	S 13	4 47	5 23	18 11	18 48	Peacock	53 17.1	S 56 41.0			
	13	260 8.5	18 11.9	S 20 56.0	S 14	4 45	5 22	18 13	18 49	Pollux	243 25.3	N 27 59.0			
	14	275 10.9	33 11.8	S 20 56.4	S 15	4 43	5 20	18 14	18 51	Procyon	244 57.6	N 5 11.2			
	15	290 13.4	48 11.6	S 20 56.9	S 20	4 33	5 11	18 23	19 1	Rasalhague	96 5.3	N 12 33.3			
	16	305 15.9	63 11.4	S 20 57.4	S 25	4 22	5 2	18 32	19 13	Regulus	207 41.7	N 11 53.3			
	17	320 18.3	78 11.2	S 20 57.8	S 30	4 9	4 52	18 43	19 25	Rigel	281 10.2	S 8 11.2			
	18	335 20.8	93 11.0	S 20 58.3	S 35	3 55	4 41	18 54	19 40	Rigel Kent	139 48.0	S 60 53.9			
	19	350 23.3	108 10.8	S 20 58.8	S 40	3 37	4 28	19 7	19 58	Schedar	349 38.2	N 56 37.7			
	20	5 25.7	123 10.6	S 20 59.2	S 45	3 14	4 12	19 23	20 21	Shaula	96 20.1	S 37 6.7			
	21	20 28.2	138 10.4	S 20 59.7	S 50	2 45	3 53	19 42	20 51	Sirius	258 31.8	S 16 44.1			
	22	35 30.7	153 10.2	S 21 0.2	S 55	2 0	3 28	20 7	21 36	Spica	158 29.7	S 11 14.4			
23	50 33.1	168 10.0	S 21 0.6	S 60	—	2 52	20 43	—	Vega	80 38.3	N 38 48.2				
Día	Sol						Luna								
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase						
25	m s	m s		h m											
26	13 16	13 7	0.5	11 47		13.8	98								
	12 58	12 48	0.5	11 47		14.9	99								

Tabla G. Viernes 27 de noviembre – sábado 28 de noviembre de 2015.

Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
27	h	° /	° /	° /	°	h m	h m	h m	h m	Nombre	° /	° /			
	0	65 35.6	183 9.8	S 21 1.1	N 60	7 7	8 28	15 7	16 28	Achernar	335 25.3	S 57 9.6			
	1	80 38.1	198 9.6	S 21 1.6	N 55	6 49	7 56	15 40	16 46	Acruz	173 7.6	S 63 10.9			
	2	95 40.5	213 9.4	S 21 2.0	N 50	6 34	7 32	16 3	17 1	Adhara	255 10.9	S 28 59.7			
	3	110 43.0	228 9.2	S 21 2.5	N 45	6 23	7 14	16 21	17 13	Aldebaran	290 47.2	N 16 32.3			
	4	125 45.4	243 9.0	S 21 3.0	N 40	6 12	6 59	16 36	17 23	Alioth	166 19.8	N 55 52.3			
	5	140 47.9	258 8.8	S 21 3.4	N 35	6 3	6 47	16 49	17 32	Alkaid	152 58.0	N 49 14.0			
	6	155 50.4	273 8.6	S 21 3.9	N 30	5 55	6 35	17 0	17 41	Alnair	27 41.9	S 46 53.1			
	7	170 52.8	288 8.4	S 21 4.4	N 25	5 47	6 26	17 10	17 49	Alnilam	275 44.4	S 1 11.7			
	8	185 55.3	303 8.2	S 21 4.8	N 20	5 39	6 17	17 19	17 56	Alphard	217 54.4	S 8 43.7			
	9	200 57.8	318 8.0	S 21 5.3	N 15	5 32	6 8	17 27	18 4	Alpheratz	357 41.6	N 29 10.9			
	10	216 0.2	333 7.8	S 21 5.7	N 14	5 30	6 6	17 29	18 5	Altair	62 7.0	N 8 54.8			
	11	231 2.7	348 7.6	S 21 6.2	N 13	5 29	6 5	17 31	18 7	Antares	112 24.6	S 26 27.8			
	12	246 5.2	3 7.4	S 21 6.6	N 12	5 27	6 3	17 32	18 8	Arcturus	145 54.3	N 19 6.6			
	13	261 7.6	18 7.2	S 21 7.1	N 11	5 26	6 1	17 34	18 10	Atria	107 25.4	S 69 3.1			
	14	276 10.1	33 7.0	S 21 7.6	N 10	5 24	6 0	17 36	18 11	Avior	234 16.9	S 59 33.5			
	15	291 12.6	48 6.8	S 21 8.0	N 9	5 23	5 58	17 37	18 13	Bellatrix	278 29.9	N 6 21.7			
	16	306 15.0	63 6.6	S 21 8.5	N 8	5 21	5 57	17 39	18 14	Betelgeuse	270 59.2	N 7 24.4			
	17	321 17.5	78 6.4	S 21 8.9	N 7	5 20	5 55	17 40	18 16	Canopus	263 54.9	S 52 42.3			
	18	336 19.9	93 6.2	S 21 9.4	N 6	5 18	5 54	17 42	18 17	Capella	280 31.6	N 46 0.7			
	19	351 22.4	108 5.9	S 21 9.8	N 5	5 17	5 52	17 44	18 19	Deneb	49 30.5	N 45 20.6			
	20	6 24.9	123 5.7	S 21 10.3	N 4	5 15	5 50	17 45	18 20	Denebola	182 32.0	N 14 29.0			
	21	21 27.3	138 5.5	S 21 10.7	N 3	5 14	5 49	17 47	18 22	Dubhe	193 49.9	N 61 39.6			
22	36 29.8	153 5.3	S 21 11.2	N 2	5 12	5 47	17 48	18 23	Elnath	278 10.2	N 28 37.1				
23	51 32.3	168 5.1	S 21 11.6	N 1	5 11	5 46	17 50	18 25	Eltanin	90 45.9	N 51 29.6				
28	0	66 34.7	183 4.9	S 21 12.1	S 1	5 7	5 43	17 53	18 28	Enif	33 45.6	N 9 57.1			
	1	81 37.2	198 4.7	S 21 12.5	S 2	5 6	5 41	17 54	18 30	Formalhaut	15 22.3	S 29 32.3			
	2	96 39.7	213 4.5	S 21 13.0	S 3	5 4	5 40	17 56	18 31	Gacrux	171 59.2	S 57 11.7			
	3	111 42.1	228 4.3	S 21 13.4	S 4	5 3	5 38	17 58	18 33	Hadar	148 45.9	S 60 26.6			
	4	126 44.6	243 4.1	S 21 13.9	S 5	5 1	5 36	17 59	18 35	Hamal	327 58.6	N 23 32.3			
	5	141 47.1	258 3.9	S 21 14.3	S 6	4 59	5 35	18 1	18 36	Kaus Aust	83 42.0	S 34 22.4			
	6	156 49.5	273 3.7	S 21 14.8	S 7	4 58	5 33	18 2	18 38	Kochab	137 21.4	N 74 5.4			
	7	171 52.0	288 3.5	S 21 15.2	S 8	4 56	5 32	18 4	18 40	Markab	13 36.6	N 15 17.6			
	8	186 54.4	303 3.3	S 21 15.7	S 9	4 54	5 30	18 6	18 42	Menkent	148 5.7	S 36 26.5			
	9	201 56.9	318 3.1	S 21 16.1	S 10	4 52	5 28	18 7	18 43	Miaplacidu	221 38.7	S 69 46.8			
	10	216 59.4	333 2.8	S 21 16.5	S 11	4 51	5 27	18 9	18 45	Mirfak	308 37.4	N 49 55.0			
	11	232 1.8	348 2.6	S 21 17.0	S 12	4 49	5 25	18 11	18 47	Nunki	75 56.6	S 26 16.4			
	12	247 4.3	3 2.4	S 21 17.4	S 13	4 47	5 24	18 12	18 49	Peacock	53 17.1	S 56 41.0			
	13	262 6.8	18 2.2	S 21 17.9	S 14	4 45	5 22	18 14	18 51	Pollux	243 25.3	N 27 59.0			
	14	277 9.2	33 2.0	S 21 18.3	S 15	4 43	5 20	18 16	18 53	Procyon	244 57.6	N 5 11.2			
	15	292 11.7	48 1.8	S 21 18.7	S 20	4 33	5 11	18 24	19 3	Rasalhague	96 5.3	N 12 33.3			
	16	307 14.2	63 1.6	S 21 19.2	S 25	4 22	5 2	18 34	19 14	Regulus	207 41.7	N 11 53.3			
	17	322 16.6	78 1.4	S 21 19.6	S 30	4 9	4 52	18 44	19 27	Rigel	281 10.2	S 8 11.2			
	18	337 19.1	93 1.2	S 21 20.1	S 35	3 54	4 40	18 56	19 42	Rigel Kent	139 48.0	S 60 53.9			
	19	352 21.5	108 0.9	S 21 20.5	S 40	3 36	4 27	19 9	20 1	Schedar	349 38.2	N 56 37.7			
	20	7 24.0	123 0.7	S 21 20.9	S 45	3 13	4 11	19 25	20 24	Shaula	96 20.1	S 37 6.7			
	21	22 26.5	138 0.5	S 21 21.4	S 50	2 42	3 51	19 45	20 55	Sirius	258 31.8	S 16 44.1			
	22	37 28.9	153 0.3	S 21 21.8	S 55	1 56	3 26	20 11	21 41	Spica	158 29.7	S 11 14.5			
23	52 31.4	168 0.1	S 21 22.2	S 60	—	2 49	20 48	20 48	Vega	80 38.3	N 38 48.2				
Día	Sol				Luna										
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día	Porcentaje de iluminación	Fase								
27	m s	m s		h m											
28	12 39	12 29	0.5	11 48	16.0	98									
	12 20	12 10	0.4	11 48	17.2	94									

Tabla G. Domingo 29 de noviembre – lunes 30 de noviembre de 2015.

Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas			
		GHA	GHA	Dec.	Nombre	SHA	Dec.									
	h	° / ' / "	° / ' / "	° / ' / "	°	h	m	h	m	h	m	h	m		° / ' / "	° / ' / "
29	0	67 33.9	182 59.9	S 21 22.7	N 60	7 10	8 32	15 4	16 26	Achernar	335 25.3	S 57 9.6				
	1	82 36.3	197 59.7	S 21 23.1	N 55	6 52	7 59	15 38	16 45	Acrux	173 7.6	S 63 10.9				
	2	97 38.8	212 59.5	S 21 23.5	N 50	6 37	7 35	16 2	17 0	Adhara	255 10.9	S 28 59.7				
	3	112 41.3	227 59.2	S 21 24.0	N 45	6 25	7 16	16 20	17 12	Aldebaran	290 47.1	N 16 32.3				
	4	127 43.7	242 59.0	S 21 24.4	N 40	6 14	7 1	16 36	17 22	Alioth	166 19.8	N 55 52.3				
	5	142 46.2	257 58.8	S 21 24.8	N 35	6 5	6 48	16 48	17 32	Alkaid	152 58.0	N 49 14.0				
	6	157 48.7	272 58.6	S 21 25.2	N 30	5 56	6 37	17 0	17 41	Alnair	27 41.9	S 46 53.1				
	7	172 51.1	287 58.4	S 21 25.7	N 25	5 48	6 27	17 10	17 49	Alnilam	275 44.4	S 1 11.7				
	8	187 53.6	302 58.2	S 21 26.1	N 20	5 40	6 18	17 19	17 56	Alphard	217 54.4	S 8 43.7				
	9	202 56.0	317 57.9	S 21 26.5	N 15	5 33	6 9	17 28	18 4	Alpheratz	357 41.6	N 29 10.9				
	10	217 58.5	332 57.7	S 21 26.9	N 14	5 31	6 7	17 29	18 6	Altair	62 7.0	N 8 54.8				
	11	233 1.0	347 57.5	S 21 27.4	N 13	5 30	6 6	17 31	18 7	Antares	112 24.6	S 26 27.8				
	12	248 3.4	2 57.3	S 21 27.8	N 12	5 28	6 4	17 33	18 9	Arcturus	145 54.2	N 19 6.6				
	13	263 5.9	17 57.1	S 21 28.2	N 11	5 27	6 2	17 34	18 10	Atria	107 25.4	S 69 3.1				
	14	278 8.4	32 56.9	S 21 28.6	N 10	5 25	6 1	17 36	18 12	Avior	234 16.9	S 59 33.5				
	15	293 10.8	47 56.6	S 21 29.1	N 9	5 24	5 59	17 38	18 13	Bellatrix	278 29.9	N 6 21.7				
	16	308 13.3	62 56.4	S 21 29.5	N 8	5 22	5 58	17 39	18 15	Betelgeuse	270 59.2	N 7 24.4				
	17	323 15.8	77 56.2	S 21 29.9	N 7	5 21	5 56	17 41	18 16	Canopus	263 54.9	S 52 42.3				
	18	338 18.2	92 56.0	S 21 30.3	N 6	5 19	5 54	17 43	18 18	Capella	280 31.5	N 46 0.7				
	19	353 20.7	107 55.8	S 21 30.7	N 5	5 18	5 53	17 44	18 19	Deneb	49 30.5	N 45 20.6				
	20	8 23.2	122 55.5	S 21 31.2	N 4	5 16	5 51	17 46	18 21	Denebola	182 32.0	N 14 29.0				
	21	23 25.6	137 55.3	S 21 31.6	N 3	5 14	5 50	17 47	18 23	Dubhe	193 49.9	N 61 39.6				
	22	38 28.1	152 55.1	S 21 32.0	N 2	5 13	5 48	17 49	18 24	Elnath	278 10.2	N 28 37.1				
23	53 30.5	167 54.9	S 21 32.4	N 1	5 11	5 46	17 50	18 26	Eltanin	90 45.9	N 51 29.5					
30	0	68 33.0	182 54.7	S 21 32.8	S 1	5 8	5 43	17 54	18 29	Enif	33 45.6	N 9 57.1				
	1	83 35.5	197 54.4	S 21 33.2	S 2	5 6	5 42	17 55	18 31	Formalhaut	15 22.3	S 29 32.3				
	2	98 37.9	212 54.2	S 21 33.7	S 3	5 5	5 40	17 57	18 32	Gacrux	171 59.2	S 57 11.7				
	3	113 40.4	227 54.0	S 21 34.1	S 4	5 3	5 39	17 58	18 34	Hadar	148 45.9	S 60 26.6				
	4	128 42.9	242 53.8	S 21 34.5	S 5	5 1	5 37	18 0	18 36	Hamal	327 58.6	N 23 32.3				
	5	143 45.3	257 53.6	S 21 34.9	S 6	5 0	5 35	18 2	18 37	Kaus Aust	83 42.0	S 34 22.4				
	6	158 47.8	272 53.3	S 21 35.3	S 7	4 58	5 34	18 3	18 39	Kochab	137 21.4	N 74 5.4				
	7	173 50.3	287 53.1	S 21 35.7	S 8	4 56	5 32	18 5	18 41	Markab	13 36.6	N 15 17.6				
	8	188 52.7	302 52.9	S 21 36.1	S 9	4 54	5 30	18 7	18 43	Menkent	148 5.7	S 36 26.5				
	9	203 55.2	317 52.7	S 21 36.5	S 10	4 53	5 29	18 8	18 44	Miaplacidu	221 38.7	S 69 46.8				
	10	218 57.6	332 52.4	S 21 36.9	S 11	4 51	5 27	18 10	18 46	Mirfak	308 37.4	N 49 55.0				
	11	234 0.1	347 52.2	S 21 37.4	S 12	4 49	5 26	18 12	18 48	Nunki	75 56.6	S 26 16.4				
	12	249 2.6	2 52.0	S 21 37.8	S 13	4 47	5 24	18 13	18 50	Peacock	53 17.1	S 56 41.0				
	13	264 5.0	17 51.8	S 21 38.2	S 14	4 45	5 22	18 15	18 52	Pollux	243 25.3	N 27 59.0				
	14	279 7.5	32 51.5	S 21 38.6	S 15	4 43	5 20	18 17	18 54	Procyon	244 57.6	N 5 11.1				
	15	294 10.0	47 51.3	S 21 39.0	S 20	4 33	5 12	18 26	19 4	Rasalhague	96 5.3	N 12 33.3				
	16	309 12.4	62 51.1	S 21 39.4	S 25	4 22	5 2	18 35	19 16	Regulus	207 41.7	N 11 53.2				
	17	324 14.9	77 50.9	S 21 39.8	S 30	4 8	4 51	18 46	19 29	Rigel	281 10.1	S 8 11.2				
	18	339 17.4	92 50.6	S 21 40.2	S 35	3 53	4 40	18 58	19 44	Rigel Kent	139 48.0	S 60 53.9				
	19	354 19.8	107 50.4	S 21 40.6	S 40	3 35	4 26	19 11	20 3	Schedar	349 38.2	N 56 37.7				
	20	9 22.3	122 50.2	S 21 41.0	S 45	3 11	4 10	19 28	20 27	Shaula	96 20.1	S 37 6.7				
	21	24 24.8	137 50.0	S 21 41.4	S 50	2 40	3 50	19 48	20 58	Sirius	258 31.8	S 16 44.1				
	22	39 27.2	152 49.7	S 21 41.8	S 55	1 52	3 23	20 15	21 47	Spica	158 29.7	S 11 14.5				
23	54 29.7	167 49.5	S 21 42.2	S 60	—	2 46	20 53	—	Vega	80 38.3	N 38 48.2					
		Sol						Luna								
Día	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase							
29	m s	m s		h m												
30	11 59	11 49	0.4	11 48		18.3	88									
	11 39	11 28	0.4	11 49		19.3	80									

Tabla G. Martes 1 de diciembre – miércoles 2 de diciembre de 2015.

Día	TU	Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		Aries	Sol							Nombre	SHA	Dec.
		GHA	GHA	Dec.								
		° /	° /	° /	°	h m	h m	h m	h m		° /	° /
1	0	69 32.1	182 49.3	S 21 42.6	N 60	7 13	8 36	15 2	16 25	Achernar	335 25.3	S 57 9.6
	1	84 34.6	197 49.0	S 21 43.0	N 55	6 54	8 2	15 36	16 44	Acrux	173 7.6	S 63 10.9
	2	99 37.1	212 48.8	S 21 43.4	N 50	6 39	7 38	16 1	16 59	Alhara	255 10.9	S 28 59.7
	3	114 39.5	227 48.6	S 21 43.8	N 45	6 27	7 19	16 20	17 11	Aldebaran	290 47.1	N 16 32.3
	4	129 42.0	242 48.4	S 21 44.2	N 40	6 16	7 3	16 35	17 22	Alioth	166 19.7	N 55 52.3
	5	144 44.5	257 48.1	S 21 44.6	N 35	6 7	6 50	16 48	17 32	Alkaid	152 58.0	N 49 14.0
	6	159 46.9	272 47.9	S 21 45.0	N 30	5 58	6 39	17 0	17 41	Alnair	27 41.9	S 46 53.1
	7	174 49.4	287 47.7	S 21 45.4	N 25	5 49	6 28	17 10	17 49	Alnilam	275 44.4	S 1 11.7
	8	189 51.9	302 47.4	S 21 45.8	N 20	5 42	6 19	17 19	17 57	Alphard	217 54.3	S 8 43.7
	9	204 54.3	317 47.2	S 21 46.1	N 15	5 34	6 10	17 28	18 5	Alpheratz	357 41.6	N 29 10.9
	10	219 56.8	332 47.0	S 21 46.5	N 14	5 32	6 9	17 30	18 6	Altair	62 7.0	N 8 54.8
	11	234 59.3	347 46.7	S 21 46.9	N 13	5 31	6 7	17 32	18 8	Antares	112 24.6	S 26 27.8
	12	250 1.7	2 46.5	S 21 47.3	N 12	5 29	6 5	17 33	18 9	Arcturus	145 54.2	N 19 6.6
	13	265 4.2	17 46.3	S 21 47.7	N 11	5 28	6 3	17 35	18 11	Atria	107 25.4	S 69 3.1
	14	280 6.6	32 46.1	S 21 48.1	N 10	5 26	6 2	17 37	18 12	Avior	234 16.9	S 59 33.5
	15	295 9.1	47 45.8	S 21 48.5	N 9	5 25	6 0	17 38	18 14	Bellatrix	278 29.9	N 6 21.7
	16	310 11.6	62 45.6	S 21 48.9	N 8	5 23	5 59	17 40	18 15	Betelgeuse	270 59.2	N 7 24.4
	17	325 14.0	77 45.4	S 21 49.3	N 7	5 21	5 57	17 41	18 17	Canopus	263 54.9	S 52 42.3
	18	340 16.5	92 45.1	S 21 49.6	N 6	5 20	5 55	17 43	18 19	Capella	280 31.5	N 46 0.7
	19	355 19.0	107 44.9	S 21 50.0	N 5	5 18	5 54	17 45	18 20	Deneb	49 30.5	N 45 20.6
	20	10 21.4	122 44.7	S 21 50.4	N 4	5 17	5 52	17 46	18 22	Denebola	182 32.0	N 14 29.0
	21	25 23.9	137 44.4	S 21 50.8	N 3	5 15	5 50	17 48	18 23	Dubhe	193 49.8	N 61 39.6
	22	40 26.4	152 44.2	S 21 51.2	N 2	5 14	5 49	17 50	18 25	Elnath	278 10.2	N 28 37.1
23	55 28.8	167 44.0	S 21 51.6	N 1	5 12	5 47	17 51	18 27	Eltanin	90 45.9	N 51 29.5	
					0	5 10	5 46	17 53	18 28			
2	0	70 31.3	182 43.7	S 21 51.9	S 1	5 9	5 44	17 54	18 30	Enif	33 45.6	N 9 57.1
	1	85 33.7	197 43.5	S 21 52.3	S 2	5 7	5 42	17 56	18 31	Formalhaut	15 22.3	S 29 32.3
	2	100 36.2	212 43.2	S 21 52.7	S 3	5 5	5 41	17 58	18 33	Gacrux	171 59.2	S 57 11.7
	3	115 38.7	227 43.0	S 21 53.1	S 4	5 4	5 39	17 59	18 35	Hadar	148 45.9	S 60 26.6
	4	130 41.1	242 42.8	S 21 53.5	S 5	5 2	5 38	18 1	18 37	Hamal	327 58.6	N 23 32.3
	5	145 43.6	257 42.5	S 21 53.8	S 6	5 0	5 36	18 3	18 38	Kaus Aust	83 42.0	S 34 22.4
	6	160 46.1	272 42.3	S 21 54.2	S 7	4 58	5 34	18 4	18 40	Kochab	137 21.4	N 74 5.4
	7	175 48.5	287 42.1	S 21 54.6	S 8	4 57	5 33	18 6	18 42	Markab	13 36.6	N 15 17.6
	8	190 51.0	302 41.8	S 21 55.0	S 9	4 55	5 31	18 8	18 44	Menkent	148 5.7	S 36 26.5
	9	205 53.5	317 41.6	S 21 55.3	S 10	4 53	5 29	18 9	18 45	Miaplacidu	221 38.6	S 69 46.8
	10	220 55.9	332 41.4	S 21 55.7	S 11	4 51	5 28	18 11	18 47	Mirfak	308 37.4	N 49 55.0
	11	235 58.4	347 41.1	S 21 56.1	S 12	4 49	5 26	18 13	18 49	Nunki	75 56.6	S 26 16.4
	12	251 0.9	2 40.9	S 21 56.5	S 13	4 47	5 24	18 14	18 51	Peacock	53 17.1	S 56 41.0
	13	266 3.3	17 40.6	S 21 56.8	S 14	4 46	5 22	18 16	18 53	Pollux	243 25.3	N 27 59.0
	14	281 5.8	32 40.4	S 21 57.2	S 15	4 44	5 21	18 18	18 55	Procyon	244 57.6	N 5 11.1
	15	296 8.2	47 40.2	S 21 57.6	S 20	4 33	5 12	18 27	19 6	Rasalhague	96 5.3	N 12 33.3
	16	311 10.7	62 39.9	S 21 57.9	S 25	4 21	5 2	18 37	19 17	Regulus	207 41.7	N 11 53.2
	17	326 13.2	77 39.7	S 21 58.3	S 30	4 8	4 51	18 47	19 31	Rigel	281 10.1	S 8 11.2
	18	341 15.6	92 39.4	S 21 58.7	S 35	3 52	4 39	19 0	19 46	Rigel Kent	139 48.0	S 60 53.9
	19	356 18.1	107 39.2	S 21 59.0	S 40	3 34	4 25	19 13	20 5	Schedar	349 38.2	N 56 37.7
	20	11 20.6	122 39.0	S 21 59.4	S 45	3 10	4 9	19 30	20 29	Shaula	96 20.1	S 37 6.7
	21	26 23.0	137 38.7	S 21 59.8	S 50	2 38	3 48	19 51	21 2	Sirius	258 31.8	S 16 44.1
	22	41 25.5	152 38.5	S 22 0.1	S 55	1 48	3 21	20 18	21 52	Spica	158 29.7	S 11 14.5
23	56 28.0	167 38.2	S 22 0.5	S 60	—	2 43	20 57	—	Vega	80 38.3	N 38 48.2	
		Sol				Luna						
Día	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día	Porcentaje de iluminación		Fase				
	m s	m s		h m								
1	11 17	11 6	0.4	11 49	20.3	72						
2	10 55	10 43	0.4	11 49	21.2	62						

Tabla G. Jueves 3 de diciembre – viernes 4 de diciembre de 2015.


Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
	h	° /	° /	° /	°	h m	h m	h m	h m	h m	h m		° /	° /	
3	0	71 30.4	182 38.0	S 22 0.9	N 60	7 17	8 40	14 59	16 23	Achernar	335 25.3	S 57 9.6			
	1	86 32.9	197 37.8	S 22 1.2	N 55	6 57	8 5	15 35	16 43	Acrux	173 7.6	S 63 10.9			
	2	101 35.4	212 37.5	S 22 1.6	N 50	6 42	7 40	16 0	16 58	Adhara	255 10.9	S 28 59.7			
	3	116 37.8	227 37.3	S 22 2.0	N 45	6 29	7 21	16 19	17 11	Aldebaran	290 47.1	N 16 32.3			
	4	131 40.3	242 37.0	S 22 2.3	N 40	6 18	7 5	16 35	17 22	Alioth	166 19.7	N 55 52.3			
	5	146 42.7	257 36.8	S 22 2.7	N 35	6 8	6 52	16 48	17 32	Alkaid	152 58.0	N 49 14.0			
	6	161 45.2	272 36.5	S 22 3.0	N 30	5 59	6 40	17 0	17 41	Alnair	27 41.9	S 46 53.1			
	7	176 47.7	287 36.3	S 22 3.4	N 25	5 51	6 30	17 10	17 49	Alnilam	275 44.4	S 1 11.7			
	8	191 50.1	302 36.0	S 22 3.8	N 20	5 43	6 20	17 20	17 57	Alphard	217 54.3	S 8 43.7			
	9	206 52.6	317 35.8	S 22 4.1	N 15	5 35	6 11	17 29	18 5	Alpheratz	357 41.6	N 29 10.9			
	10	221 55.1	332 35.6	S 22 4.5	N 14	5 33	6 10	17 30	18 7	Altair	62 7.0	N 8 54.8			
	11	236 57.5	347 35.3	S 22 4.8	N 13	5 32	6 8	17 32	18 8	Antares	112 24.6	S 26 27.8			
	12	252 00.0	2 35.1	S 22 5.2	N 12	5 30	6 6	17 34	18 10	Arcturus	145 54.2	N 19 6.6			
	13	267 2.5	17 34.8	S 22 5.5	N 11	5 29	6 5	17 35	18 11	Atria	107 25.4	S 69 3.1			
	14	282 4.9	32 34.6	S 22 5.9	N 10	5 27	6 3	17 37	18 13	Avior	234 16.8	S 59 33.5			
	15	297 7.4	47 34.3	S 22 6.2	N 9	5 25	6 1	17 39	18 15	Bellatrix	278 29.9	N 6 21.7			
	16	312 9.8	62 34.1	S 22 6.6	N 8	5 24	6 0	17 40	18 16	Betelgeuse	270 59.2	N 7 24.4			
	17	327 12.3	77 33.8	S 22 6.9	N 7	5 22	5 58	17 42	18 18	Canopus	263 54.9	S 52 42.3			
	18	342 14.8	92 33.6	S 22 7.3	N 6	5 21	5 56	17 44	18 19	Capella	280 31.5	N 46 0.7			
	19	357 17.2	107 33.3	S 22 7.6	N 5	5 19	5 55	17 45	18 21	Deneb	49 30.5	N 45 20.6			
	20	12 19.7	122 33.1	S 22 8.0	N 4	5 18	5 53	17 47	18 23	Denebola	182 32.0	N 14 29.0			
	21	27 22.2	137 32.9	S 22 8.3	N 3	5 16	5 51	17 49	18 24	Dubhe	193 49.8	N 61 39.6			
	22	42 24.6	152 32.6	S 22 8.7	N 2	5 14	5 50	17 50	18 26	Elnath	278 10.1	N 28 37.1			
23	57 27.1	167 32.4	S 22 9.0	N 1	5 13	5 48	17 52	18 27	Eltanin	90 45.9	N 51 29.5				
4	0	72 29.6	182 32.1	S 22 9.4	S 1	5 9	5 45	17 55	18 31	Enif	33 45.6	N 9 57.1			
	1	87 32.0	197 31.9	S 22 9.7	S 2	5 8	5 43	17 57	18 32	Formalhaut	15 22.3	S 29 32.3			
	2	102 34.5	212 31.6	S 22 10.1	S 3	5 6	5 41	17 59	18 34	Gacrux	171 59.2	S 57 11.7			
	3	117 37.0	227 31.4	S 22 10.4	S 4	5 4	5 40	18 0	18 36	Hadar	148 45.9	S 60 26.6			
	4	132 39.4	242 31.1	S 22 10.8	S 5	5 3	5 38	18 2	18 38	Hamal	327 58.6	N 23 32.3			
	5	147 41.9	257 30.9	S 22 11.1	S 6	5 1	5 37	18 4	18 39	Kaus Aust	83 42.0	S 34 22.4			
	6	162 44.3	272 30.6	S 22 11.4	S 7	4 59	5 35	18 5	18 41	Kochab	137 21.3	N 74 5.4			
	7	177 46.8	287 30.4	S 22 11.8	S 8	4 57	5 33	18 7	18 43	Markab	13 36.7	N 15 17.6			
	8	192 49.3	302 30.1	S 22 12.1	S 9	4 55	5 31	18 9	18 45	Menkent	148 5.7	S 36 26.5			
	9	207 51.7	317 29.9	S 22 12.5	S 10	4 54	5 30	18 10	18 47	Miaplacidu	221 38.6	S 69 46.8			
	10	222 54.2	332 29.6	S 22 12.8	S 11	4 52	5 28	18 12	18 48	Mirfak	308 37.4	N 49 55.0			
	11	237 56.7	347 29.4	S 22 13.1	S 12	4 50	5 26	18 14	18 50	Nunki	75 56.6	S 26 16.4			
	12	252 59.1	2 29.1	S 22 13.5	S 13	4 48	5 25	18 15	18 52	Peacock	53 17.1	S 56 41.0			
	13	268 1.6	17 28.9	S 22 13.8	S 14	4 46	5 23	18 17	18 54	Pollux	243 25.3	N 27 59.0			
	14	283 4.1	32 28.6	S 22 14.1	S 15	4 44	5 21	18 19	18 56	Procyon	244 57.6	N 5 11.1			
	15	298 6.5	47 28.4	S 22 14.5	S 20	4 33	5 12	18 28	19 7	Rasalhague	96 5.3	N 12 33.2			
	16	313 9.0	62 28.1	S 22 14.8	S 25	4 21	5 2	18 38	19 19	Regulus	207 41.6	N 11 53.2			
	17	328 11.5	77 27.9	S 22 15.1	S 30	4 8	4 51	18 49	19 32	Rigel	281 10.1	S 8 11.2			
	18	343 13.9	92 27.6	S 22 15.5	S 35	3 52	4 39	19 1	19 48	Rigel Kent	139 48.0	S 60 53.9			
	19	358 16.4	107 27.3	S 22 15.8	S 40	3 33	4 25	19 15	20 8	Schedar	349 38.2	N 56 37.7			
	20	13 18.8	122 27.1	S 22 16.1	S 45	3 9	4 8	19 32	20 32	Shaula	96 20.1	S 37 6.7			
	21	28 21.3	137 26.8	S 22 16.5	S 50	2 36	3 47	19 53	21 5	Sirius	258 31.8	S 16 44.1			
	22	43 23.8	152 26.6	S 22 16.8	S 55	1 45	3 20	20 21	21 57	Spica	158 29.7	S 11 14.5			
23	58 26.2	167 26.3	S 22 17.1	S 60	—	2 40	21 1	—	Vega	80 38.3	N 38 48.2				
		Sol			Luna										
Día	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día		Porcentaje de iluminación		Fase						
3	m s	m s		h m											
4	10 32	10 20	0.4	11 50	22.1		53								
	10 8	9 56	0.3	11 50	22.9		43								

Tabla G. Sábado 5 de diciembre – domingo 6 de diciembre de 2015.

Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
5	h	° /	° /	° /	°	h m	h m	h m	h m	h m	h m	h m	° /	° /	° /
	0	73 28.7	182 26.1	S 22 17.5	N 60	7 19	8 44	14 57	16 22	Achernar	335 25.3	S 57 9.6			
	1	88 31.2	197 25.8	S 22 17.8	N 55	6 59	8 8	15 33	16 42	Acrux	173 7.5	S 63 10.9			
	2	103 33.6	212 25.6	S 22 18.1	N 50	6 44	7 43	15 59	16 58	Adhara	255 10.9	S 28 59.7			
	3	118 36.1	227 25.3	S 22 18.4	N 45	6 31	7 23	16 18	17 11	Aldebaran	290 47.1	N 16 32.3			
	4	133 38.6	242 25.1	S 22 18.8	N 40	6 20	7 7	16 34	17 22	Alioth	166 19.7	N 55 52.2			
	5	148 41.0	257 24.8	S 22 19.1	N 35	6 10	6 54	16 48	17 32	Alkaid	152 58.0	N 49 14.0			
	6	163 43.5	272 24.5	S 22 19.4	N 30	6 1	6 42	17 0	17 41	Alnair	27 41.9	S 46 53.1			
	7	178 46.0	287 24.3	S 22 19.7	N 25	5 52	6 31	17 10	17 49	Alnilam	275 44.4	S 1 11.7			
	8	193 48.4	302 24.0	S 22 20.1	N 20	5 44	6 22	17 20	17 58	Alphard	217 54.3	S 8 43.7			
	9	208 50.9	317 23.8	S 22 20.4	N 15	5 36	6 13	17 29	18 6	Alpheratz	357 41.6	N 29 10.9			
	10	223 53.3	332 23.5	S 22 20.7	N 14	5 34	6 11	17 31	18 7	Altair	62 7.0	N 8 54.8			
	11	238 55.8	347 23.3	S 22 21.0	N 13	5 33	6 9	17 33	18 9	Antares	112 24.6	S 26 27.8			
	12	253 58.3	2 23.0	S 22 21.3	N 12	5 31	6 7	17 34	18 10	Arcturus	145 54.2	N 19 6.6			
	13	269 0.7	17 22.7	S 22 21.7	N 11	5 30	6 6	17 36	18 12	Atria	107 25.4	S 69 3.1			
	14	284 3.2	32 22.5	S 22 22.0	N 10	5 28	6 4	17 38	18 14	Avior	234 16.8	S 59 33.6			
	15	299 5.7	47 22.2	S 22 22.3	N 9	5 26	6 2	17 39	18 15	Bellatrix	278 29.9	N 6 21.7			
	16	314 8.1	62 22.0	S 22 22.6	N 8	5 25	6 0	17 41	18 17	Betelgeuse	270 59.2	N 7 24.4			
	17	329 10.6	77 21.7	S 22 22.9	N 7	5 23	5 59	17 43	18 18	Canopus	263 54.9	S 52 42.3			
	18	344 13.1	92 21.5	S 22 23.2	N 6	5 22	5 57	17 44	18 20	Capella	280 31.5	N 46 0.7			
	19	359 15.5	107 21.2	S 22 23.6	N 5	5 20	5 55	17 46	18 22	Deneb	49 30.6	N 45 20.6			
	20	14 18.0	122 20.9	S 22 23.9	N 4	5 18	5 54	17 48	18 23	Denebola	182 31.9	N 14 29.0			
	21	29 20.4	137 20.7	S 22 24.2	N 3	5 17	5 52	17 49	18 25	Dubhe	193 49.8	N 61 39.6			
22	44 22.9	152 20.4	S 22 24.5	N 2	5 15	5 51	17 51	18 27	Elnath	278 10.1	N 28 37.1				
23	59 25.4	167 20.2	S 22 24.8	N 1	5 13	5 49	17 53	18 28	Eltanin	90 45.9	N 51 29.5				
				0	5 12	5 47	17 54	18 30							
6	0	74 27.8	182 19.9	S 22 25.1	S 1	5 10	5 46	17 56	18 32	Enif	33 45.6	N 9 57.1			
	1	89 30.3	197 19.6	S 22 25.4	S 2	5 8	5 44	17 58	18 33	Formalhaut	15 22.3	S 29 32.3			
	2	104 32.8	212 19.4	S 22 25.7	S 3	5 7	5 42	17 59	18 35	Gacrux	171 59.2	S 57 11.7			
	3	119 35.2	227 19.1	S 22 26.0	S 4	5 5	5 41	18 1	18 37	Hadar	148 45.9	S 60 26.6			
	4	134 37.7	242 18.9	S 22 26.3	S 5	5 3	5 39	18 3	18 39	Hamal	327 58.6	N 23 32.3			
	5	149 40.2	257 18.6	S 22 26.6	S 6	5 1	5 37	18 4	18 40	Kaus Aust	83 42.0	S 34 22.4			
	6	164 42.6	272 18.3	S 22 27.0	S 7	5 0	5 36	18 6	18 42	Kochab	137 21.3	N 74 5.4			
	7	179 45.1	287 18.1	S 22 27.3	S 8	4 58	5 34	18 8	18 44	Markab	13 36.7	N 15 17.6			
	8	194 47.6	302 17.8	S 22 27.6	S 9	4 56	5 32	18 10	18 46	Menkent	148 5.7	S 36 26.5			
	9	209 50.0	317 17.5	S 22 27.9	S 10	4 54	5 30	18 11	18 48	Miaplacidu	221 38.6	S 69 46.8			
	10	224 52.5	332 17.3	S 22 28.2	S 11	4 52	5 29	18 13	18 50	Mirfak	308 37.4	N 49 55.0			
	11	239 54.9	347 17.0	S 22 28.5	S 12	4 50	5 27	18 15	18 52	Nunki	75 56.6	S 26 16.4			
	12	254 57.4	2 16.8	S 22 28.8	S 13	4 48	5 25	18 17	18 53	Peacock	53 17.1	S 56 41.0			
	13	269 59.9	17 16.5	S 22 29.1	S 14	4 46	5 23	18 18	18 55	Pollux	243 25.3	N 27 59.0			
	14	285 2.3	32 16.2	S 22 29.4	S 15	4 44	5 22	18 20	18 58	Procyon	244 57.6	N 5 11.1			
	15	300 4.8	47 16.0	S 22 29.7	S 20	4 34	5 12	18 29	19 8	Rasalhague	96 5.3	N 12 33.2			
	16	315 7.3	62 15.7	S 22 30.0	S 25	4 22	5 2	18 40	19 20	Regulus	207 41.6	N 11 53.2			
	17	330 9.7	77 15.4	S 22 30.3	S 30	4 8	4 51	18 51	19 34	Rigel	281 10.1	S 8 11.2			
	18	345 12.2	92 15.2	S 22 30.6	S 35	3 52	4 39	19 3	19 50	Rigel Kent	139 48.0	S 60 53.9			
	19	0 14.7	107 14.9	S 22 30.9	S 40	3 32	4 25	19 17	20 10	Schedar	349 38.2	N 56 37.7			
	20	15 17.1	122 14.6	S 22 31.2	S 45	3 8	4 8	19 34	20 34	Shaula	96 20.1	S 37 6.7			
	21	30 19.6	137 14.4	S 22 31.4	S 50	2 34	3 46	19 56	21 8	Sirius	258 31.8	S 16 44.1			
	22	45 22.1	152 14.1	S 22 31.7	S 55	1 42	3 18	20 24	22 1	Spica	158 29.7	S 11 14.5			
23	60 24.5	167 13.8	S 22 32.0	S 60	—	2 38	21 5	—	Vega	80 38.3	N 38 48.2				
Sol													Luna		
Día	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase						
	m s	m s		h m											
5	9 44	9 32	0.3	11 50		23.8	34								
6	9 19	9 7	0.3	11 51		24.6	25								

Tabla G. Lunes 7 de diciembre – martes 8 de diciembre de 2015.

Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
	h	° /	° /	° /	°	h m	h m	h m	h m	h m	h m		° /	° /	
7	0	75 27.0	182 13.6	S 22 32.3	N 60	7 22	8 47	14 56	16 21	Achernar	335 25.3	S 57 9.6			
	1	90 29.4	197 13.3	S 22 32.6	N 55	7 2	8 11	15 32	16 41	Acrux	173 7.5	S 63 10.9			
	2	105 31.9	212 13.0	S 22 32.9	N 50	6 46	7 45	15 58	16 57	Adhara	255 10.9	S 28 59.7			
	3	120 34.4	227 12.8	S 22 33.2	N 45	6 33	7 25	16 18	17 11	Aldebaran	290 47.1	N 16 32.3			
	4	135 36.8	242 12.5	S 22 33.5	N 40	6 21	7 9	16 34	17 22	Alioth	166 19.7	N 55 52.2			
	5	150 39.3	257 12.2	S 22 33.8	N 35	6 11	6 55	16 48	17 32	Alkaid	152 58.0	N 49 14.0			
	6	165 41.8	272 12.0	S 22 34.1	N 30	6 2	6 43	17 0	17 41	Alnair	27 41.9	S 46 53.1			
	7	180 44.2	287 11.7	S 22 34.3	N 25	5 53	6 33	17 11	17 50	Alnilam	275 44.3	S 1 11.7			
	8	195 46.7	302 11.4	S 22 34.6	N 20	5 45	6 23	17 21	17 58	Alphard	217 54.3	S 8 43.7			
	9	210 49.2	317 11.2	S 22 34.9	N 15	5 37	6 14	17 30	18 6	Alpheratz	357 41.7	N 29 10.9			
	10	225 51.6	332 10.9	S 22 35.2	N 14	5 35	6 12	17 31	18 8	Altair	62 7.0	N 8 54.8			
	11	240 54.1	347 10.6	S 22 35.5	N 13	5 34	6 10	17 33	18 10	Antares	112 24.6	S 26 27.7			
	12	255 56.5	2 10.4	S 22 35.8	N 12	5 32	6 8	17 35	18 11	Arcturus	145 54.2	N 19 6.6			
	13	270 59.0	17 10.1	S 22 36.0	N 11	5 31	6 7	17 37	18 13	Atria	107 25.4	S 69 3.1			
	14	286 1.5	32 9.8	S 22 36.3	N 10	5 29	6 5	17 38	18 14	Avior	234 16.8	S 59 33.6			
	15	301 3.9	47 9.6	S 22 36.6	N 9	5 27	6 3	17 40	18 16	Bellatrix	278 29.9	N 6 21.6			
	16	316 6.4	62 9.3	S 22 36.9	N 8	5 26	6 1	17 42	18 18	Betelgeuse	270 59.2	N 7 24.4			
	17	331 8.9	77 9.0	S 22 37.2	N 7	5 24	6 0	17 44	18 19	Canopus	263 54.9	S 52 42.4			
	18	346 11.3	92 8.7	S 22 37.4	N 6	5 22	5 58	17 45	18 21	Capella	280 31.5	N 46 0.7			
	19	1 13.8	107 8.5	S 22 37.7	N 5	5 21	5 56	17 47	18 23	Deneb	49 30.6	N 45 20.6			
	20	16 16.3	122 8.2	S 22 38.0	N 4	5 19	5 55	17 49	18 24	Denebola	182 31.9	N 14 29.0			
	21	31 18.7	137 7.9	S 22 38.3	N 3	5 18	5 53	17 50	18 26	Dubhe	193 49.8	N 61 39.6			
	22	46 21.2	152 7.7	S 22 38.5	N 2	5 16	5 51	17 52	18 28	Elnath	278 10.1	N 28 37.1			
23	61 23.7	167 7.4	S 22 38.8	N 1	5 14	5 50	17 54	18 29	Eltanin	90 45.9	N 51 29.5				
8	0	76 26.1	182 7.1	S 22 39.1	S 1	5 11	5 46	17 57	18 33	Enif	33 45.6	N 9 57.1			
	1	91 28.6	197 6.8	S 22 39.4	S 2	5 9	5 45	17 59	18 34	Formalhaut	15 22.3	S 29 32.3			
	2	106 31.0	212 6.6	S 22 39.6	S 3	5 7	5 43	18 0	18 36	Gacrux	171 59.1	S 57 11.7			
	3	121 33.5	227 6.3	S 22 39.9	S 4	5 6	5 41	18 2	18 38	Hadar	148 45.8	S 60 26.6			
	4	136 36.0	242 6.0	S 22 40.2	S 5	5 4	5 40	18 4	18 40	Hamal	327 58.6	N 23 32.3			
	5	151 38.4	257 5.8	S 22 40.5	S 6	5 2	5 38	18 5	18 41	Kaus Aust	83 42.0	S 34 22.4			
	6	166 40.9	272 5.5	S 22 40.7	S 7	5 0	5 36	18 7	18 43	Kochab	137 21.3	N 74 5.4			
	7	181 43.4	287 5.2	S 22 41.0	S 8	4 58	5 35	18 9	18 45	Markab	13 36.7	N 15 17.6			
	8	196 45.8	302 4.9	S 22 41.3	S 9	4 56	5 33	18 11	18 47	Menkent	148 5.7	S 36 26.5			
	9	211 48.3	317 4.7	S 22 41.5	S 10	4 55	5 31	18 12	18 49	Miaplacidu	221 38.6	S 69 46.8			
	10	226 50.8	332 4.4	S 22 41.8	S 11	4 53	5 29	18 14	18 51	Mirfak	308 37.4	N 49 55.0			
	11	241 53.2	347 4.1	S 22 42.1	S 12	4 51	5 28	18 16	18 53	Nunki	75 56.6	S 26 16.4			
	12	256 55.7	2 3.8	S 22 42.3	S 13	4 49	5 26	18 18	18 55	Peacock	53 17.1	S 56 41.0			
	13	271 58.2	17 3.6	S 22 42.6	S 14	4 47	5 24	18 19	18 57	Pollux	243 25.3	N 27 59.0			
	14	287 0.6	32 3.3	S 22 42.8	S 15	4 45	5 22	18 21	18 59	Procyon	244 57.5	N 5 11.1			
	15	302 3.1	47 3.0	S 22 43.1	S 20	4 34	5 13	18 31	19 10	Rasalhague	96 5.3	N 12 33.2			
	16	317 5.5	62 2.7	S 22 43.4	S 25	4 22	5 3	18 41	19 22	Regulus	207 41.6	N 11 53.2			
	17	332 8.0	77 2.5	S 22 43.6	S 30	4 8	4 52	18 52	19 36	Rigel	281 10.1	S 8 11.2			
	18	347 10.5	92 2.2	S 22 43.9	S 35	3 52	4 39	19 5	19 52	Rigel Kent	139 47.9	S 60 53.9			
	19	2 12.9	107 1.9	S 22 44.1	S 40	3 32	4 25	19 19	20 12	Schedar	349 38.2	N 56 37.7			
	20	17 15.4	122 1.6	S 22 44.4	S 45	3 7	4 7	19 36	20 37	Shaula	96 20.1	S 37 6.7			
	21	32 17.9	137 1.4	S 22 44.7	S 50	2 33	3 46	19 58	21 11	Sirius	258 31.8	S 16 44.1			
	22	47 20.3	152 1.1	S 22 44.9	S 55	1 39	3 17	20 27	22 6	Spica	158 29.7	S 11 14.5			
23	62 22.8	167 0.8	S 22 45.2	S 60	—	2 36	21 9	—	Vega	80 38.3	N 38 48.1				
Día		Sol			Luna										
		Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase					
		m s	m s		h m										
7		8 54	8 41	0.3	11 51		25.4	18							
8		8 28	8 15	0.3	11 52		26.3	11							

Tabla G. Miércoles 9 de diciembre – jueves 10 de diciembre de 2015.


Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
9	h	° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m	h m	h m	h m	° / ' / "	° / ' / "	° / ' / "
	0	77 25.3	182 0.5	S 22 45.4	N 60	7 25	8 50	14 55	16 20	Achernar	335 25.3	S 57 9.7			
	1	92 27.7	197 0.3	S 22 45.7	N 55	7 4	8 13	15 32	16 41	Acrux	173 7.5	S 63 10.9			
	2	107 30.2	212 00.0	S 22 45.9	N 50	6 48	7 47	15 58	16 57	Adhara	255 10.9	S 28 59.7			
	3	122 32.6	226 59.7	S 22 46.2	N 45	6 34	7 27	16 18	17 11	Aldebaran	290 47.1	N 16 32.3			
	4	137 35.1	241 59.4	S 22 46.4	N 40	6 23	7 11	16 34	17 22	Alioth	166 19.7	N 55 52.2			
	5	152 37.6	256 59.2	S 22 46.7	N 35	6 13	6 57	16 48	17 32	Alkaid	152 58.0	N 49 14.0			
	6	167 40.0	271 58.9	S 22 46.9	N 30	6 3	6 45	17 0	17 42	Alnair	27 41.9	S 46 53.1			
	7	182 42.5	286 58.6	S 22 47.2	N 25	5 55	6 34	17 11	17 50	Alnilam	275 44.3	S 1 11.7			
	8	197 45.0	301 58.3	S 22 47.4	N 20	5 46	6 24	17 21	17 59	Alphard	217 54.3	S 8 43.7			
	9	212 47.4	316 58.0	S 22 47.7	N 15	5 38	6 15	17 30	18 7	Alpheratz	357 41.7	N 29 10.9			
	10	227 49.9	331 57.8	S 22 47.9	N 14	5 36	6 13	17 32	18 9	Altair	62 7.0	N 8 54.8			
	11	242 52.4	346 57.5	S 22 48.2	N 13	5 35	6 11	17 34	18 10	Antares	112 24.6	S 26 27.7			
	12	257 54.8	1 57.2	S 22 48.4	N 12	5 33	6 9	17 36	18 12	Arcturus	145 54.2	N 19 6.6			
	13	272 57.3	16 56.9	S 22 48.7	N 11	5 32	6 8	17 37	18 14	Atria	107 25.4	S 69 3.1			
	14	287 59.8	31 56.6	S 22 48.9	N 10	5 30	6 6	17 39	18 15	Avior	234 16.8	S 59 33.6			
	15	303 2.2	46 56.4	S 22 49.2	N 9	5 28	6 4	17 41	18 17	Bellatrix	278 29.9	N 6 21.6			
	16	318 4.7	61 56.1	S 22 49.4	N 8	5 27	6 3	17 43	18 18	Betelgeuse	270 59.2	N 7 24.4			
	17	333 7.1	76 55.8	S 22 49.6	N 7	5 25	6 1	17 44	18 20	Canopus	263 54.9	S 52 42.4			
	18	348 9.6	91 55.5	S 22 49.9	N 6	5 23	5 59	17 46	18 22	Capella	280 31.5	N 46 0.7			
	19	3 12.1	106 55.2	S 22 50.1	N 5	5 22	5 57	17 48	18 23	Deneb	49 30.6	N 45 20.6			
	20	18 14.5	121 55.0	S 22 50.4	N 4	5 20	5 56	17 49	18 25	Denebola	182 31.9	N 14 29.0			
	21	33 17.0	136 54.7	S 22 50.6	N 3	5 18	5 54	17 51	18 27	Dubhe	193 49.7	N 61 39.6			
22	48 19.5	151 54.4	S 22 50.8	N 2	5 17	5 52	17 53	18 28	Elnath	278 10.1	N 28 37.1				
23	63 21.9	166 54.1	S 22 51.1	N 1	5 15	5 51	17 55	18 30	Eltanin	90 45.9	N 51 29.5				
10	0	78 24.4	181 53.8	S 22 51.3	S 1	5 12	5 47	17 58	18 34	Enif	33 45.6	N 9 57.1			
	1	93 26.9	196 53.6	S 22 51.5	S 2	5 10	5 46	18 0	18 35	Formalhaut	15 22.3	S 29 32.3			
	2	108 29.3	211 53.3	S 22 51.8	S 3	5 8	5 44	18 1	18 37	Gacrux	171 59.1	S 57 11.7			
	3	123 31.8	226 53.0	S 22 52.0	S 4	5 6	5 42	18 3	18 39	Hadar	148 45.8	S 60 26.6			
	4	138 34.3	241 52.7	S 22 52.2	S 5	5 5	5 40	18 5	18 41	Hamal	327 58.6	N 23 32.3			
	5	153 36.7	256 52.4	S 22 52.5	S 6	5 3	5 39	18 6	18 42	Kaus Aust	83 42.0	S 34 22.4			
	6	168 39.2	271 52.1	S 22 52.7	S 7	5 1	5 37	18 8	18 44	Kochab	137 21.3	N 74 5.4			
	7	183 41.6	286 51.9	S 22 52.9	S 8	4 59	5 35	18 10	18 46	Markab	13 36.7	N 15 17.6			
	8	198 44.1	301 51.6	S 22 53.2	S 9	4 57	5 33	18 12	18 48	Menkent	148 5.7	S 36 26.5			
	9	213 46.6	316 51.3	S 22 53.4	S 10	4 55	5 32	18 13	18 50	Miaplacidu	221 38.5	S 69 46.8			
	10	228 49.0	331 51.0	S 22 53.6	S 11	4 53	5 30	18 15	18 52	Mirfak	308 37.4	N 49 55.0			
	11	243 51.5	346 50.7	S 22 53.9	S 12	4 51	5 28	18 17	18 54	Nunki	75 56.6	S 26 16.4			
	12	258 54.0	1 50.5	S 22 54.1	S 13	4 49	5 26	18 19	18 56	Peacock	53 17.1	S 56 41.0			
	13	273 56.4	16 50.2	S 22 54.3	S 14	4 47	5 25	18 21	18 58	Pollux	243 25.2	N 27 59.0			
	14	288 58.9	31 49.9	S 22 54.5	S 15	4 45	5 23	18 22	19 0	Procyon	244 57.5	N 5 11.1			
	15	304 1.4	46 49.6	S 22 54.8	S 20	4 34	5 13	18 32	19 11	Rasalhague	96 5.3	N 12 33.2			
	16	319 3.8	61 49.3	S 22 55.0	S 25	4 22	5 3	18 42	19 23	Regulus	207 41.6	N 11 53.2			
	17	334 6.3	76 49.0	S 22 55.2	S 30	4 8	4 52	18 53	19 37	Rigel	281 10.1	S 8 11.2			
	18	349 8.8	91 48.7	S 22 55.4	S 35	3 52	4 39	19 6	19 54	Rigel Kent	139 47.9	S 60 53.9			
	19	4 11.2	106 48.5	S 22 55.6	S 40	3 32	4 25	19 21	20 14	Schedar	349 38.3	N 56 37.7			
	20	19 13.7	121 48.2	S 22 55.9	S 45	3 7	4 7	19 38	20 39	Shaula	96 20.1	S 37 6.7			
	21	34 16.1	136 47.9	S 22 56.1	S 50	2 32	3 45	20 0	21 14	Sirius	258 31.8	S 16 44.1			
	22	49 18.6	151 47.6	S 22 56.3	S 55	1 37	3 16	20 29	22 10	Spica	158 29.7	S 11 14.5			
23	64 21.1	166 47.3	S 22 56.5	S 60	—	2 34	21 12	—	Vega	80 38.3	N 38 48.1				
Día	Sol						Luna								
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase						
9	m s	m s		h m											
10	8 2	7 49	0.2	11 52		27.2	6								
	7 35	7 22	0.2	11 53		28.1	2								

Tabla G. Viernes 11 de diciembre – sábado 12 de diciembre de 2015.


Día	TU	Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.						Nombre	SHA	Dec.
11	h	° /	° /	° /	°	h m	h m	h m	h m		° /	° /
	0	79 23.5	181 47.0	S 22 56.7	N 60	7 27	8 53	14 54	16 20	Achernar	335 25.4	S 57 9.7
	1	94 26.0	196 46.7	S 22 57.0	N 55	7 6	8 16	15 31	16 41	Acrux	173 7.5	S 63 10.9
	2	109 28.5	211 46.5	S 22 57.2	N 50	6 50	7 49	15 58	16 57	Adhara	255 10.8	S 28 59.7
	3	124 30.9	226 46.2	S 22 57.4	N 45	6 36	7 29	16 18	17 11	Aldebaran	290 47.1	N 16 32.3
	4	139 33.4	241 45.9	S 22 57.6	N 40	6 24	7 12	16 35	17 22	Alioth	166 19.7	N 55 52.2
	5	154 35.9	256 45.6	S 22 57.8	N 35	6 14	6 58	16 49	17 33	Alkaid	152 57.9	N 49 13.9
	6	169 38.3	271 45.3	S 22 58.0	N 30	6 5	6 46	17 1	17 42	Alnair	27 41.9	S 46 53.1
	7	184 40.8	286 45.0	S 22 58.2	N 25	5 56	6 35	17 12	17 51	Alnilam	275 44.3	S 1 11.7
	8	199 43.2	301 44.7	S 22 58.5	N 20	5 47	6 25	17 22	18 0	Alphard	217 54.3	S 8 43.7
	9	214 45.7	316 44.5	S 22 58.7	N 15	5 39	6 16	17 31	18 8	Alpheratz	357 41.7	N 29 10.9
	10	229 48.2	331 44.2	S 22 58.9	N 14	5 38	6 14	17 33	18 9	Altair	62 7.0	N 8 54.8
	11	244 50.6	346 43.9	S 22 59.1	N 13	5 36	6 12	17 35	18 11	Antares	112 24.5	S 26 27.7
	12	259 53.1	1 43.6	S 22 59.3	N 12	5 34	6 11	17 36	18 13	Arcturus	145 54.2	N 19 6.6
	13	274 55.6	16 43.3	S 22 59.5	N 11	5 33	6 9	17 38	18 14	Atria	107 25.4	S 69 3.1
	14	289 58.0	31 43.0	S 22 59.7	N 10	5 31	6 7	17 40	18 16	Avior	234 16.8	S 59 33.6
	15	305 0.5	46 42.7	S 22 59.9	N 9	5 29	6 5	17 42	18 18	Bellatrix	278 29.9	N 6 21.6
	16	320 3.0	61 42.4	S 23 0.1	N 8	5 28	6 4	17 43	18 19	Betelgeuse	270 59.2	N 7 24.4
	17	335 5.4	76 42.2	S 23 0.3	N 7	5 26	6 2	17 45	18 21	Canopus	263 54.9	S 52 42.4
	18	350 7.9	91 41.9	S 23 0.5	N 6	5 24	6 0	17 47	18 23	Capella	280 31.5	N 46 0.7
	19	5 10.4	106 41.6	S 23 0.7	N 5	5 23	5 58	17 49	18 24	Deneb	49 30.6	N 45 20.6
	20	20 12.8	121 41.3	S 23 0.9	N 4	5 21	5 57	17 50	18 26	Denebola	182 31.9	N 14 28.9
	21	35 15.3	136 41.0	S 23 1.1	N 3	5 19	5 55	17 52	18 28	Dubhe	193 49.7	N 61 39.6
22	50 17.7	151 40.7	S 23 1.3	N 2	5 18	5 53	17 54	18 29	Elnath	278 10.1	N 28 37.1	
23	65 20.2	166 40.4	S 23 1.5	N 1	5 16	5 52	17 55	18 31	Eltanin	90 45.9	N 51 29.5	
12	0	80 22.7	181 40.1	S 23 1.7	S 1	5 12	5 48	17 59	18 35	Enif	33 45.6	N 9 57.1
	1	95 25.1	196 39.8	S 23 1.9	S 2	5 11	5 46	18 1	18 36	Formalhaut	15 22.3	S 29 32.3
	2	110 27.6	211 39.5	S 23 2.1	S 3	5 9	5 45	18 2	18 38	Gacrux	171 59.1	S 57 11.7
	3	125 30.1	226 39.3	S 23 2.3	S 4	5 7	5 43	18 4	18 40	Hadar	148 45.8	S 60 26.6
	4	140 32.5	241 39.0	S 23 2.5	S 5	5 5	5 41	18 6	18 42	Hamal	327 58.6	N 23 32.3
	5	155 35.0	256 38.7	S 23 2.7	S 6	5 4	5 40	18 7	18 43	Kaus Aust	83 42.0	S 34 22.4
	6	170 37.5	271 38.4	S 23 2.9	S 7	5 2	5 38	18 9	18 45	Kochab	137 21.3	N 74 5.3
	7	185 39.9	286 38.1	S 23 3.1	S 8	5 0	5 36	18 11	18 47	Markab	13 36.7	N 15 17.6
	8	200 42.4	301 37.8	S 23 3.3	S 9	4 58	5 34	18 13	18 49	Menkent	148 5.6	S 36 26.5
	9	215 44.9	316 37.5	S 23 3.5	S 10	4 56	5 33	18 14	18 51	Miaplacidu	221 38.5	S 69 46.8
	10	230 47.3	331 37.2	S 23 3.7	S 11	4 54	5 31	18 16	18 53	Mirfak	308 37.4	N 49 55.0
	11	245 49.8	346 36.9	S 23 3.8	S 12	4 52	5 29	18 18	18 55	Nunki	75 56.6	S 26 16.4
	12	260 52.2	1 36.6	S 23 4.0	S 13	4 50	5 27	18 20	18 57	Peacock	53 17.1	S 56 41.0
	13	275 54.7	16 36.3	S 23 4.2	S 14	4 48	5 25	18 22	18 59	Pollux	243 25.2	N 27 59.0
	14	290 57.2	31 36.1	S 23 4.4	S 15	4 46	5 24	18 24	19 1	Procyon	244 57.5	N 5 11.1
	15	305 59.6	46 35.8	S 23 4.6	S 20	4 35	5 14	18 33	19 12	Rasalhague	96 5.3	N 12 33.2
	16	321 2.1	61 35.5	S 23 4.8	S 25	4 23	5 4	18 43	19 25	Regulus	207 41.6	N 11 53.2
	17	336 4.6	76 35.2	S 23 5.0	S 30	4 8	4 52	18 55	19 39	Rigel	281 10.1	S 8 11.2
	18	351 7.0	91 34.9	S 23 5.2	S 35	3 52	4 40	19 8	19 55	Rigel Kent	139 47.9	S 60 53.9
	19	6 9.5	106 34.6	S 23 5.3	S 40	3 32	4 25	19 22	20 15	Schedar	349 38.3	N 56 37.7
	20	21 12.0	121 34.3	S 23 5.5	S 45	3 6	4 7	19 40	20 41	Shaula	96 20.1	S 37 6.7
	21	36 14.4	136 34.0	S 23 5.7	S 50	2 31	3 45	20 2	21 16	Sirius	258 31.8	S 16 44.1
	22	51 16.9	151 33.7	S 23 5.9	S 55	1 35	3 16	20 32	22 13	Spica	158 29.6	S 11 14.5
23	66 19.3	166 33.4	S 23 6.1	S 60	—	2 33	21 15	—	Vega	80 38.3	N 38 48.1	
Día	Sol				Luna							
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día		Porcentaje de iluminación		Fase			
11	m s	m s		h m								
12	7 8	6 54	0.2	11 53		29.1		0				
	6 40	6 26	0.2	11 54		0.6		0				

Tabla G. Domingo 13 de diciembre – lunes 14 de diciembre de 2015.

Día	TU	Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		Aries	Sol							Nombre	SHA	Dec.
		GHA	GHA	Dec.		h m	h m	h m	h m		° / ' / "	° / ' / "
13	h				°							
	0	81 21.8	181 33.1	S 23 6.2	N 60	7 29	8 56	14 53	16 20	Achernar	335 25.4	S 57 9.7
	1	96 24.3	196 32.8	S 23 6.4	N 55	7 8	8 18	15 31	16 41	Acrux	173 7.4	S 63 10.9
	2	111 26.7	211 32.5	S 23 6.6	N 50	6 51	7 51	15 58	16 57	Alhara	255 10.8	S 28 59.8
	3	126 29.2	226 32.2	S 23 6.8	N 45	6 38	7 30	16 18	17 11	Aldebaran	290 47.1	N 16 32.3
	4	141 31.7	241 32.0	S 23 6.9	N 40	6 26	7 14	16 35	17 23	Alioth	166 19.6	N 55 52.2
	5	156 34.1	256 31.7	S 23 7.1	N 35	6 15	7 0	16 49	17 33	Alkaid	152 57.9	N 49 13.9
	6	171 36.6	271 31.4	S 23 7.3	N 30	6 6	6 47	17 1	17 43	Alnair	27 41.9	S 46 53.1
	7	186 39.1	286 31.1	S 23 7.5	N 25	5 57	6 36	17 12	17 52	Alnilam	275 44.3	S 1 11.7
	8	201 41.5	301 30.8	S 23 7.6	N 20	5 49	6 26	17 22	18 0	Alphard	217 54.3	S 8 43.7
	9	216 44.0	316 30.5	S 23 7.8	N 15	5 40	6 17	17 32	18 9	Alpheratz	357 41.7	N 29 10.9
	10	231 46.5	331 30.2	S 23 8.0	N 14	5 39	6 15	17 34	18 10	Altair	62 7.0	N 8 54.8
	11	246 48.9	346 29.9	S 23 8.2	N 13	5 37	6 13	17 35	18 12	Antares	112 24.5	S 26 27.7
	12	261 51.4	1 29.6	S 23 8.3	N 12	5 35	6 12	17 37	18 14	Arcturus	145 54.2	N 19 6.6
	13	276 53.8	16 29.3	S 23 8.5	N 11	5 34	6 10	17 39	18 15	Atria	107 25.4	S 69 3.1
	14	291 56.3	31 29.0	S 23 8.7	N 10	5 32	6 8	17 41	18 17	Avior	234 16.7	S 59 33.6
	15	306 58.8	46 28.7	S 23 8.8	N 9	5 30	6 6	17 43	18 19	Bellatrix	278 29.9	N 6 21.6
	16	322 1.2	61 28.4	S 23 9.0	N 8	5 29	6 5	17 44	18 20	Betelgeuse	270 59.2	N 7 24.4
	17	337 3.7	76 28.1	S 23 9.2	N 7	5 27	6 3	17 46	18 22	Canopus	263 54.9	S 52 42.4
	18	352 6.2	91 27.8	S 23 9.3	N 6	5 25	6 1	17 48	18 24	Capella	280 31.5	N 46 0.7
	19	7 8.6	106 27.5	S 23 9.5	N 5	5 24	5 59	17 50	18 25	Deneb	49 30.6	N 45 20.6
	20	22 11.1	121 27.2	S 23 9.7	N 4	5 22	5 58	17 51	18 27	Denebola	182 31.9	N 14 28.9
	21	37 13.6	136 26.9	S 23 9.8	N 3	5 20	5 56	17 53	18 29	Dubhe	193 49.7	N 61 39.6
22	52 16.0	151 26.6	S 23 10.0	N 2	5 19	5 54	17 55	18 30	Elnath	278 10.1	N 28 37.1	
23	67 18.5	166 26.3	S 23 10.1	N 1	5 17	5 52	17 56	18 32	Eltanin	90 45.9	N 51 29.5	
				0	5 15	5 51	17 58	18 34				
14	0	82 21.0	181 26.0	S 23 10.3	S 1	5 13	5 49	18 0	18 36	Enif	33 45.6	N 9 57.1
	1	97 23.4	196 25.7	S 23 10.5	S 2	5 12	5 47	18 2	18 37	Formalhaut	15 22.3	S 29 32.3
	2	112 25.9	211 25.4	S 23 10.6	S 3	5 10	5 46	18 3	18 39	Gacrux	171 59.1	S 57 11.8
	3	127 28.3	226 25.2	S 23 10.8	S 4	5 8	5 44	18 5	18 41	Hadar	148 45.8	S 60 26.6
	4	142 30.8	241 24.9	S 23 10.9	S 5	5 6	5 42	18 7	18 43	Hamal	327 58.6	N 23 32.3
	5	157 33.3	256 24.6	S 23 11.1	S 6	5 4	5 40	18 8	18 45	Kaus Aust	83 42.0	S 34 22.4
	6	172 35.7	271 24.3	S 23 11.2	S 7	5 3	5 39	18 10	18 46	Kochab	137 21.2	N 74 5.3
	7	187 38.2	286 24.0	S 23 11.4	S 8	5 1	5 37	18 12	18 48	Markab	13 36.7	N 15 17.6
	8	202 40.7	301 23.7	S 23 11.6	S 9	4 58	5 35	18 14	18 50	Menkent	148 5.6	S 36 26.5
	9	217 43.1	316 23.4	S 23 11.7	S 10	4 57	5 33	18 16	18 52	Miaplacidu	221 38.5	S 69 46.8
	10	232 45.6	331 23.1	S 23 11.9	S 11	4 55	5 32	18 17	18 54	Mirfak	308 37.4	N 49 55.0
	11	247 48.1	346 22.8	S 23 12.0	S 12	4 53	5 30	18 19	18 56	Nunki	75 56.6	S 26 16.4
	12	262 50.5	1 22.5	S 23 12.2	S 13	4 51	5 28	18 21	18 58	Peacock	53 17.1	S 56 41.0
	13	277 53.0	16 22.2	S 23 12.3	S 14	4 49	5 26	18 23	19 0	Pollux	243 25.2	N 27 59.0
	14	292 55.4	31 21.9	S 23 12.5	S 15	4 47	5 24	18 25	19 2	Procyon	244 57.5	N 5 11.1
	15	307 57.9	46 21.6	S 23 12.6	S 20	4 36	5 15	18 34	19 13	Rasalhague	96 5.3	N 12 33.2
	16	323 0.4	61 21.3	S 23 12.8	S 25	4 23	5 4	18 45	19 26	Regulus	207 41.6	N 11 53.2
	17	338 2.8	76 21.0	S 23 12.9	S 30	4 9	4 53	18 56	19 40	Rigel	281 10.1	S 8 11.2
	18	353 5.3	91 20.7	S 23 13.0	S 35	3 52	4 40	19 9	19 57	Rigel Kent	139 47.9	S 60 53.9
	19	8 7.8	106 20.4	S 23 13.2	S 40	3 32	4 25	19 24	20 17	Schedar	349 38.3	N 56 37.7
	20	23 10.2	121 20.1	S 23 13.3	S 45	3 6	4 7	19 42	20 43	Shaula	96 20.0	S 37 6.7
	21	38 12.7	136 19.8	S 23 13.5	S 50	2 31	3 45	20 4	21 18	Sirius	258 31.8	S 16 44.1
	22	53 15.2	151 19.5	S 23 13.6	S 55	1 33	3 16	20 34	22 17	Spica	158 29.6	S 11 14.5
23	68 17.6	166 19.2	S 23 13.8	S 60	—	2 32	21 18	—	Vega	80 38.3	N 38 48.1	
Sol												
Día	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día	Porcentaje de iluminación		Fase				
	m s	m s		h m								
13	6 12	5 58	0.2	11 54	1.6	2						
14	5 44	5 30	0.2	11 54	2.7	7						



Tabla G. Martes 15 de diciembre – miércoles 16 de diciembre de 2015.

Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
	h	° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m	h m	h m	Nombre	° / ' / "	° / ' / "	
15	0	83 20.1	181 18.9	S 23 13.9	N 60	7 31	8 58	14 53	16 20	Achernar	335 25.4	S 57 9.7			
	1	98 22.6	196 18.6	S 23 14.0	N 55	7 10	8 19	15 31	16 41	Acrux	173 7.4	S 63 10.9			
	2	113 25.0	211 18.3	S 23 14.2	N 50	6 53	7 52	15 58	16 58	Adhara	255 10.8	S 28 59.8			
	3	128 27.5	226 18.0	S 23 14.3	N 45	6 39	7 32	16 19	17 12	Aldebaran	290 47.1	N 16 32.3			
	4	143 29.9	241 17.7	S 23 14.5	N 40	6 27	7 15	16 36	17 23	Alioth	166 19.6	N 55 52.2			
	5	158 32.4	256 17.4	S 23 14.6	N 35	6 17	7 1	16 50	17 34	Alkaid	152 57.9	N 49 13.9			
	6	173 34.9	271 17.1	S 23 14.7	N 30	6 7	6 49	17 2	17 44	Alnair	27 41.9	S 46 53.1			
	7	188 37.3	286 16.8	S 23 14.9	N 25	5 58	6 38	17 13	17 53	Alnilam	275 44.3	S 1 11.7			
	8	203 39.8	301 16.5	S 23 15.0	N 20	5 50	6 28	17 23	18 1	Alphard	217 54.2	S 8 43.8			
	9	218 42.3	316 16.2	S 23 15.1	N 15	5 41	6 18	17 33	18 9	Alpheratz	357 41.7	N 29 10.9			
	10	233 44.7	331 15.9	S 23 15.3	N 14	5 40	6 16	17 35	18 11	Altair	62 7.0	N 8 54.8			
	11	248 47.2	346 15.6	S 23 15.4	N 13	5 38	6 14	17 36	18 13	Antares	112 24.5	S 26 27.8			
	12	263 49.7	1 15.3	S 23 15.5	N 12	5 36	6 13	17 38	18 14	Arcturus	145 54.1	N 19 6.6			
	13	278 52.1	16 15.0	S 23 15.7	N 11	5 35	6 11	17 40	18 16	Atria	107 25.3	S 69 3.0			
	14	293 54.6	31 14.7	S 23 15.8	N 10	5 33	6 9	17 42	18 18	Avior	234 16.7	S 59 33.6			
	15	308 57.1	46 14.4	S 23 15.9	N 9	5 31	6 7	17 43	18 19	Bellatrix	278 29.9	N 6 21.6			
	16	323 59.5	61 14.1	S 23 16.0	N 8	5 30	6 6	17 45	18 21	Betelgeuse	270 59.1	N 7 24.4			
	17	339 2.0	76 13.8	S 23 16.2	N 7	5 28	6 4	17 47	18 23	Canopus	263 54.8	S 52 42.4			
	18	354 4.4	91 13.5	S 23 16.3	N 6	5 26	6 2	17 49	18 24	Capella	280 31.5	N 46 0.7			
	19	9 6.9	106 13.2	S 23 16.4	N 5	5 25	6 0	17 50	18 26	Deneb	49 30.6	N 45 20.6			
	20	24 9.4	121 12.9	S 23 16.6	N 4	5 23	5 59	17 52	18 28	Denebola	182 31.9	N 14 28.9			
	21	39 11.8	136 12.6	S 23 16.7	N 3	5 21	5 57	17 54	18 30	Dubhe	193 49.6	N 61 39.6			
	22	54 14.3	151 12.3	S 23 16.8	N 2	5 20	5 55	17 56	18 31	Elnath	278 10.1	N 28 37.1			
23	69 16.8	166 12.0	S 23 16.9	N 1	5 18	5 53	17 57	18 33	Eltanin	90 45.9	N 51 29.5				
				0	5 16	5 52	17 59	18 35							
16	0	84 19.2	181 11.7	S 23 17.0	S 1	5 14	5 50	18 1	18 37	Enif	33 45.6	N 9 57.1			
	1	99 21.7	196 11.4	S 23 17.2	S 2	5 13	5 48	18 3	18 38	Formalhaut	15 22.3	S 29 32.3			
	2	114 24.2	211 11.1	S 23 17.3	S 3	5 11	5 47	18 4	18 40	Gacrux	171 59.0	S 57 11.8			
	3	129 26.6	226 10.8	S 23 17.4	S 4	5 9	5 45	18 6	18 42	Hadar	148 45.7	S 60 26.6			
	4	144 29.1	241 10.5	S 23 17.5	S 5	5 7	5 43	18 8	18 44	Hamal	327 58.6	N 23 32.3			
	5	159 31.5	256 10.2	S 23 17.6	S 6	5 5	5 41	18 9	18 46	Kaus Aust	83 42.0	S 34 22.4			
	6	174 34.0	271 9.8	S 23 17.8	S 7	5 3	5 40	18 11	18 47	Kochab	137 21.2	N 74 5.3			
	7	189 36.5	286 9.5	S 23 17.9	S 8	5 1	5 38	18 13	18 49	Markab	13 36.7	N 15 17.6			
	8	204 38.9	301 9.2	S 23 18.0	S 9	4 59	5 36	18 15	18 52	Menkent	148 5.6	S 36 26.5			
	9	219 41.4	316 8.9	S 23 18.1	S 10	4 58	5 34	18 17	18 53	Miaplacidu	221 38.4	S 69 46.9			
	10	234 43.9	331 8.6	S 23 18.2	S 11	4 56	5 32	18 18	18 55	Mirfak	308 37.4	N 49 55.0			
	11	249 46.3	346 8.3	S 23 18.3	S 12	4 54	5 31	18 20	18 57	Nunki	75 56.6	S 26 16.4			
	12	264 48.8	1 8.0	S 23 18.4	S 13	4 52	5 29	18 22	18 59	Peacock	53 17.1	S 56 41.0			
	13	279 51.3	16 7.7	S 23 18.5	S 14	4 50	5 27	18 24	19 1	Pollux	243 25.2	N 27 59.0			
	14	294 53.7	31 7.4	S 23 18.7	S 15	4 47	5 25	18 26	19 3	Procyon	244 57.5	N 5 11.1			
	15	309 56.2	46 7.1	S 23 18.8	S 20	4 36	5 15	18 35	19 15	Rasalhague	96 5.3	N 12 33.2			
	16	324 58.7	61 6.8	S 23 18.9	S 25	4 24	5 5	18 46	19 27	Regulus	207 41.6	N 11 53.2			
	17	340 1.1	76 6.5	S 23 19.0	S 30	4 9	4 53	18 57	19 41	Rigel	281 10.1	S 8 11.2			
	18	355 3.6	91 6.2	S 23 19.1	S 35	3 53	4 41	19 10	19 58	Rigel Kent	139 47.8	S 60 53.9			
	19	10 6.0	106 5.9	S 23 19.2	S 40	3 32	4 26	19 25	20 19	Schedar	349 38.3	N 56 37.7			
	20	25 8.5	121 5.6	S 23 19.3	S 45	3 7	4 8	19 43	20 45	Shaula	96 20.0	S 37 6.7			
	21	40 11.0	136 5.3	S 23 19.4	S 50	2 31	3 45	20 6	21 20	Sirius	258 31.7	S 16 44.1			
	22	55 13.4	151 5.0	S 23 19.5	S 55	1 32	3 16	20 36	22 19	Spica	158 29.6	S 11 14.5			
23	70 15.9	166 4.7	S 23 19.6	S 60	—	2 31	21 20	—	Vega	80 38.3	N 38 48.1				
		Sol						Luna							
Día		Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase					
		m s	m s		h m										
15		5 15	5 1	0.1	11 55		3.7	13							
16		4 47	4 32	0.1	11 55		4.8	22							

Tabla G. Jueves 17 de diciembre – viernes 18 de diciembre de 2015.

Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
		h ° /	° /	° /	°	h m	h m	h m	h m						
17	0	85 18.4	181 4.4	S 23 19.7	N 60	7 33	9 0	14 53	16 20	Achernar	335 25.4	S 57 9.7			
	1	100 20.8	196 4.1	S 23 19.8	N 55	7 11	8 21	15 32	16 42	Acrux	173 7.4	S 63 10.9			
	2	115 23.3	211 3.8	S 23 19.9	N 50	6 54	7 54	15 59	16 59	Adhara	255 10.8	S 28 59.8			
	3	130 25.8	226 3.5	S 23 20.0	N 45	6 40	7 33	16 19	17 12	Aldebaran	290 47.1	N 16 32.3			
	4	145 28.2	241 3.2	S 23 20.1	N 40	6 29	7 16	16 36	17 24	Alioth	166 19.6	N 55 52.2			
	5	160 30.7	256 2.9	S 23 20.2	N 35	6 18	7 2	16 50	17 35	Alkaid	152 57.9	N 49 13.9			
	6	175 33.2	271 2.6	S 23 20.3	N 30	6 8	6 50	17 3	17 44	Alnair	27 42.0	S 46 53.1			
	7	190 35.6	286 2.3	S 23 20.4	N 25	5 59	6 39	17 14	17 53	Alnilam	275 44.3	S 1 11.7			
	8	205 38.1	301 1.9	S 23 20.5	N 20	5 51	6 29	17 24	18 2	Alphard	217 54.2	S 8 43.8			
	9	220 40.5	316 1.6	S 23 20.6	N 15	5 42	6 19	17 34	18 10	Alpheratz	357 41.7	N 29 10.9			
	10	235 43.0	331 1.3	S 23 20.7	N 14	5 41	6 17	17 35	18 12	Altair	62 7.0	N 8 54.8			
	11	250 45.5	346 1.0	S 23 20.8	N 13	5 39	6 16	17 37	18 14	Antares	112 24.5	S 26 27.8			
	12	265 47.9	1 0.7	S 23 20.9	N 12	5 37	6 14	17 39	18 15	Arcturus	145 54.1	N 19 6.5			
	13	280 50.4	16 0.4	S 23 21.0	N 11	5 36	6 12	17 41	18 17	Atria	107 25.3	S 69 3.0			
	14	295 52.9	31 0.1	S 23 21.1	N 10	5 34	6 10	17 43	18 19	Avior	234 16.7	S 59 33.6			
	15	310 55.3	45 59.8	S 23 21.2	N 9	5 32	6 8	17 44	18 20	Bellatrix	278 29.9	N 6 21.6			
	16	325 57.8	60 59.5	S 23 21.2	N 8	5 31	6 7	17 46	18 22	Betelgeuse	270 59.1	N 7 24.4			
	17	341 0.3	75 59.2	S 23 21.3	N 7	5 29	6 5	17 48	18 24	Canopus	263 54.8	S 52 42.4			
	18	356 2.7	90 58.9	S 23 21.4	N 6	5 27	6 3	17 50	18 25	Capella	280 31.5	N 46 0.7			
	19	11 5.2	105 58.6	S 23 21.5	N 5	5 26	6 1	17 51	18 27	Deneb	49 30.6	N 45 20.6			
	20	26 7.7	120 58.3	S 23 21.6	N 4	5 24	6 0	17 53	18 29	Denebola	182 31.8	N 14 28.9			
	21	41 10.1	135 58.0	S 23 21.7	N 3	5 22	5 58	17 55	18 31	Dubhe	193 49.6	N 61 39.6			
	22	56 12.6	150 57.7	S 23 21.8	N 2	5 20	5 56	17 57	18 32	Elnath	278 10.1	N 28 37.1			
23	71 15.0	165 57.4	S 23 21.8	N 1	5 19	5 54	17 58	18 34	Eltanin	90 45.9	N 51 29.4				
					0	5 17	5 53	18 0	18 36						
					S 1	5 15	5 51	18 2	18 38	Enif	33 45.6	N 9 57.1			
					S 2	5 13	5 49	18 4	18 39	Formalhaut	15 22.4	S 29 32.3			
					S 3	5 12	5 48	18 5	18 41	Gacrux	171 59.0	S 57 11.8			
					S 4	5 10	5 46	18 7	18 43	Hadar	148 45.7	S 60 26.6			
					S 5	5 8	5 44	18 9	18 45	Hamal	327 58.6	N 23 32.3			
					S 6	5 6	5 42	18 10	18 47	Kaus Aust	83 42.0	S 34 22.4			
					S 7	5 4	5 41	18 12	18 48	Kochab	137 21.2	N 74 5.3			
					S 8	5 2	5 39	18 14	18 50	Markab	13 36.7	N 15 17.6			
					S 9	5 0	5 37	18 16	18 53	Menkent	148 5.6	S 36 26.5			
					S 10	4 59	5 35	18 18	18 54	Miaplacidu	221 38.4	S 69 46.9			
					S 11	4 57	5 33	18 19	18 56	Mirfak	308 37.4	N 49 55.0			
					S 12	4 55	5 32	18 21	18 58	Nunki	75 56.6	S 26 16.4			
					S 13	4 52	5 30	18 23	19 0	Peacock	53 17.1	S 56 41.0			
					S 14	4 50	5 28	18 25	19 2	Pollux	243 25.2	N 27 59.0			
					S 15	4 48	5 26	18 27	19 5	Procyon	244 57.5	N 5 11.1			
					S 20	4 37	5 16	18 37	19 16	Rasalhague	96 5.3	N 12 33.2			
					S 25	4 25	5 6	18 47	19 28	Regulus	207 41.5	N 11 53.2			
					S 30	4 10	4 54	18 59	19 43	Rigel	281 10.1	S 8 11.2			
					S 35	3 53	4 41	19 12	19 59	Rigel Kent	139 47.8	S 60 53.9			
					S 40	3 33	4 26	19 27	20 20	Schedar	349 38.3	N 56 37.7			
					S 45	3 7	4 8	19 45	20 46	Shaula	96 20.0	S 37 6.6			
					S 50	2 31	3 46	20 7	21 22	Sirius	258 31.7	S 16 44.1			
					S 55	1 32	3 16	20 37	22 21	Spica	158 29.6	S 11 14.5			
					S 60	—	2 31	21 22	—	Vega	80 38.3	N 38 48.1			
Día		Sol			Luna										
		Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase					
		m s	m s		h m										
17		4 17	4 3	0.1	11 56		5.8	32							
18		3 48	3 33	0.1	11 56		6.8	43							

Tabla G. Sábado 19 de diciembre – domingo 20 de diciembre de 2015.

Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
	h	° /	° /	° /	°	h m	h m	h m	h m	h m	h m	h m	° /	° /	° /
19	0	87 16.6	180 49.7	S 23 23.7	N 60	7 34	9 1	14 53	16 21	Achernar	335 25.4	S 57 9.7			
	1	102 19.1	195 49.4	S 23 23.7	N 55	7 12	8 22	15 32	16 42	Acrux	173 7.3	S 63 10.9			
	2	117 21.6	210 49.1	S 23 23.8	N 50	6 55	7 55	15 59	16 59	Adhara	255 10.8	S 28 59.8			
	3	132 24.0	225 48.8	S 23 23.8	N 45	6 42	7 34	16 20	17 13	Aldebaran	290 47.1	N 16 32.3			
	4	147 26.5	240 48.5	S 23 23.9	N 40	6 30	7 18	16 37	17 25	Alioth	166 19.6	N 55 52.2			
	5	162 29.0	255 48.1	S 23 24.0	N 35	6 19	7 3	16 51	17 36	Alkaid	152 57.9	N 49 13.9			
	6	177 31.4	270 47.8	S 23 24.0	N 30	6 9	6 51	17 4	17 45	Alnair	27 42.0	S 46 53.1			
	7	192 33.9	285 47.5	S 23 24.1	N 25	6 0	6 40	17 15	17 54	Alnilam	275 44.3	S 1 11.7			
	8	207 36.4	300 47.2	S 23 24.1	N 20	5 52	6 30	17 25	18 3	Alphard	217 54.2	S 8 43.8			
	9	222 38.8	315 46.9	S 23 24.2	N 15	5 43	6 20	17 35	18 11	Alpheratz	357 41.7	N 29 10.9			
	10	237 41.3	330 46.6	S 23 24.2	N 14	5 42	6 18	17 36	18 13	Altair	62 7.0	N 8 54.8			
	11	252 43.8	345 46.3	S 23 24.3	N 13	5 40	6 17	17 38	18 15	Antares	112 24.5	S 26 27.8			
	12	267 46.2	0 46.0	S 23 24.4	N 12	5 38	6 15	17 40	18 16	Arcturus	145 54.1	N 19 6.5			
	13	282 48.7	15 45.7	S 23 24.4	N 11	5 37	6 13	17 42	18 18	Atria	107 25.3	S 69 3.0			
	14	297 51.1	30 45.4	S 23 24.5	N 10	5 35	6 11	17 44	18 20	Avior	234 16.7	S 59 33.6			
	15	312 53.6	45 45.1	S 23 24.5	N 9	5 33	6 9	17 45	18 21	Bellatrix	278 29.9	N 6 21.6			
	16	327 56.1	60 44.8	S 23 24.6	N 8	5 32	6 8	17 47	18 23	Betelgeuse	270 59.1	N 7 24.4			
	17	342 58.5	75 44.5	S 23 24.6	N 7	5 30	6 6	17 49	18 25	Canopus	263 54.8	S 52 42.4			
	18	358 1.0	90 44.1	S 23 24.7	N 6	5 28	6 4	17 51	18 26	Capella	280 31.5	N 46 0.7			
	19	13 3.5	105 43.8	S 23 24.7	N 5	5 27	6 2	17 52	18 28	Deneb	49 30.6	N 45 20.6			
	20	28 5.9	120 43.5	S 23 24.8	N 4	5 25	6 1	17 54	18 30	Denebola	182 31.8	N 14 28.9			
	21	43 8.4	135 43.2	S 23 24.8	N 3	5 23	5 59	17 56	18 32	Dubhe	193 49.6	N 61 39.6			
	22	58 10.9	150 42.9	S 23 24.8	N 2	5 21	5 57	17 58	18 33	Elnath	278 10.1	N 28 37.1			
23	73 13.3	165 42.6	S 23 24.9	N 1	5 20	5 55	17 59	18 35	Eltanin	90 45.9	N 51 29.4				
20	0	88 15.8	180 42.3	S 23 24.9	S 1	5 18	5 54	18 1	18 37	Enif	33 45.6	N 9 57.1			
	1	103 18.2	195 42.0	S 23 25.0	S 2	5 16	5 52	18 3	18 39	Formalhaut	15 22.4	S 29 32.3			
	2	118 20.7	210 41.7	S 23 25.0	S 3	5 14	5 50	18 5	18 40	Gacrux	171 59.0	S 57 11.8			
	3	133 23.2	225 41.4	S 23 25.1	S 4	5 13	5 48	18 6	18 42	Hadar	148 45.7	S 60 26.6			
	4	148 25.6	240 41.1	S 23 25.1	S 5	5 11	5 47	18 8	18 44	Hamal	327 58.7	N 23 32.3			
	5	163 28.1	255 40.7	S 23 25.1	S 6	5 9	5 45	18 10	18 46	Kaus Aust	83 42.0	S 34 22.4			
	6	178 30.6	270 40.4	S 23 25.2	S 7	5 7	5 43	18 12	18 48	Kochab	137 21.1	N 74 5.3			
	7	193 33.0	285 40.1	S 23 25.2	S 8	5 5	5 41	18 13	18 50	Markab	13 36.7	N 15 17.6			
	8	208 35.5	300 39.8	S 23 25.3	S 9	5 3	5 40	18 15	18 51	Menkent	148 5.6	S 36 26.5			
	9	223 38.0	315 39.5	S 23 25.3	S 10	5 1	5 38	18 17	18 54	Miaplacidu	221 38.4	S 69 46.9			
	10	238 40.4	330 39.2	S 23 25.3	S 11	4 59	5 36	18 19	18 55	Mirfak	308 37.4	N 49 55.0			
	11	253 42.9	345 38.9	S 23 25.4	S 12	4 57	5 34	18 20	18 57	Nunki	75 56.6	S 26 16.4			
	12	268 45.4	0 38.6	S 23 25.4	S 13	4 55	5 32	18 22	18 59	Peacock	53 17.2	S 56 41.0			
	13	283 47.8	15 38.3	S 23 25.4	S 14	4 53	5 31	18 24	19 1	Pollux	243 25.2	N 27 59.0			
	14	298 50.3	30 38.0	S 23 25.5	S 15	4 51	5 29	18 26	19 3	Procyon	244 57.5	N 5 11.1			
	15	313 52.7	45 37.7	S 23 25.5	S 20	4 49	5 27	18 28	19 6	Rasalhague	96 5.3	N 12 33.2			
	16	328 55.2	60 37.3	S 23 25.5	S 25	4 48	5 27	18 28	19 6	Regulus	207 41.5	N 11 53.2			
	17	343 57.7	75 37.0	S 23 25.5	S 30	4 25	5 7	18 48	19 29	Rigel	281 10.1	S 8 11.2			
	18	359 0.1	90 36.7	S 23 25.6	S 35	4 11	4 55	19 0	19 44	Rigel Kent	139 47.8	S 60 53.9			
	19	14 2.6	105 36.4	S 23 25.6	S 40	3 54	4 42	19 13	20 1	Schedar	349 38.3	N 56 37.7			
	20	29 5.1	120 36.1	S 23 25.6	S 45	3 34	4 27	19 28	20 21	Shaula	96 20.0	S 37 6.6			
	21	44 7.5	135 35.8	S 23 25.7	S 50	3 8	4 9	19 46	20 47	Sirius	258 31.7	S 16 44.1			
	22	59 10.0	150 35.5	S 23 25.7	S 55	2 32	3 46	20 8	21 23	Spica	158 29.6	S 11 14.5			
23	74 12.5	165 35.2	S 23 25.7	S 60	1 32	3 16	20 38	22 23	Vega	80 38.3	N 38 48.1				
Día	Sol						Luna								
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase						
19	m s	m s		h m											
20	3 19	3 4	0.1	11 57	7.8	54									
	2 49	2 34	0.0	11 57	8.8	65									

Tabla G. Lunes 21 de diciembre – martes 22 de diciembre de 2015.


Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
21	h	° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m	h m	h m	h m	° / ' / "	° / ' / "	° / ' / "
	0	89 14.9	180 34.9	S 23 25.7	N 60	7 35	9 2	14 54	16 22	Achernar	335 25.4	S 57 9.7			
	1	104 17.4	195 34.6	S 23 25.8	N 55	7 13	8 24	15 33	16 43	Acrux	173 7.3	S 63 10.9			
	2	119 19.9	210 34.3	S 23 25.8	N 50	6 56	7 56	16 0	17 0	Adhara	255 10.8	S 28 59.8			
	3	134 22.3	225 33.9	S 23 25.8	N 45	6 43	7 35	16 21	17 14	Aldebaran	290 47.1	N 16 32.3			
	4	149 24.8	240 33.6	S 23 25.8	N 40	6 31	7 19	16 38	17 26	Alioth	166 19.5	N 55 52.2			
	5	164 27.2	255 33.3	S 23 25.8	N 35	6 20	7 4	16 52	17 37	Alkaid	152 57.8	N 49 13.9			
	6	179 29.7	270 33.0	S 23 25.9	N 30	6 10	6 52	17 5	17 46	Alnair	27 42.0	S 46 53.1			
	7	194 32.2	285 32.7	S 23 25.9	N 25	6 1	6 41	17 16	17 55	Alnilam	275 44.3	S 1 11.7			
	8	209 34.6	300 32.4	S 23 25.9	N 20	5 53	6 31	17 26	18 4	Alphard	217 54.2	S 8 43.8			
	9	224 37.1	315 32.1	S 23 25.9	N 15	5 44	6 21	17 35	18 12	Alpheratz	357 41.7	N 29 10.9			
	10	239 39.6	330 31.8	S 23 25.9	N 14	5 43	6 19	17 37	18 14	Altair	62 7.0	N 8 54.8			
	11	254 42.0	345 31.5	S 23 25.9	N 13	5 41	6 18	17 39	18 16	Antares	112 24.5	S 26 27.8			
	12	269 44.5	0 31.2	S 23 26.0	N 12	5 39	6 16	17 41	18 17	Arcturus	145 54.1	N 19 6.5			
	13	284 47.0	15 30.8	S 23 26.0	N 11	5 38	6 14	17 43	18 19	Atria	107 25.3	S 69 3.0			
	14	299 49.4	30 30.5	S 23 26.0	N 10	5 36	6 12	17 45	18 21	Avior	234 16.7	S 59 33.6			
	15	314 51.9	45 30.2	S 23 26.0	N 9	5 34	6 10	17 46	18 22	Bellatrix	278 29.8	N 6 21.6			
	16	329 54.3	60 29.9	S 23 26.0	N 8	5 33	6 9	17 48	18 24	Betelgeuse	270 59.1	N 7 24.4			
	17	344 56.8	75 29.6	S 23 26.0	N 7	5 31	6 7	17 50	18 26	Canopus	263 54.8	S 52 42.4			
	18	359 59.3	90 29.3	S 23 26.0	N 6	5 29	6 5	17 52	18 27	Capella	280 31.5	N 46 0.7			
	19	15 1.7	105 29.0	S 23 26.0	N 5	5 28	6 3	17 53	18 29	Deneb	49 30.6	N 45 20.6			
	20	30 4.2	120 28.7	S 23 26.0	N 4	5 26	6 2	17 55	18 31	Denebola	182 31.8	N 14 28.9			
	21	45 6.7	135 28.4	S 23 26.0	N 3	5 24	6 0	17 57	18 33	Dubhe	193 49.6	N 61 39.6			
22	60 9.1	150 28.1	S 23 26.1	N 2	5 22	5 58	17 59	18 34	Elnath	278 10.1	N 28 37.1				
23	75 11.6	165 27.7	S 23 26.1	N 1	5 21	5 56	18 0	18 36	Eltanin	90 45.9	N 51 29.4				
22	0	90 14.1	180 27.4	S 23 26.1	S 1	5 17	5 53	18 4	18 40	Enif	33 45.6	N 9 57.1			
	1	105 16.5	195 27.1	S 23 26.1	S 2	5 15	5 51	18 6	18 41	Formalhaut	15 22.4	S 29 32.3			
	2	120 19.0	210 26.8	S 23 26.1	S 3	5 14	5 49	18 7	18 43	Gacrux	171 59.0	S 57 11.8			
	3	135 21.5	225 26.5	S 23 26.1	S 4	5 12	5 48	18 9	18 45	Hadar	148 45.7	S 60 26.6			
	4	150 23.9	240 26.2	S 23 26.1	S 5	5 10	5 46	18 11	18 47	Hamal	327 58.7	N 23 32.3			
	5	165 26.4	255 25.9	S 23 26.1	S 6	5 8	5 44	18 13	18 49	Kaus Aust	83 42.0	S 34 22.4			
	6	180 28.8	270 25.6	S 23 26.1	S 7	5 6	5 42	18 14	18 51	Kochab	137 21.1	N 74 5.3			
	7	195 31.3	285 25.3	S 23 26.1	S 8	5 4	5 41	18 16	18 52	Markab	13 36.7	N 15 17.6			
	8	210 33.8	300 25.0	S 23 26.1	S 9	5 2	5 39	18 18	18 55	Menkent	148 5.6	S 36 26.5			
	9	225 36.2	315 24.6	S 23 26.1	S 10	5 0	5 37	18 20	18 56	Miaplacidu	221 38.4	S 69 46.9			
	10	240 38.7	330 24.3	S 23 26.1	S 11	4 58	5 35	18 21	18 58	Mirfak	308 37.4	N 49 55.0			
	11	255 41.2	345 24.0	S 23 26.1	S 12	4 56	5 33	18 23	19 0	Nunki	75 56.6	S 26 16.4			
	12	270 43.6	0 23.7	S 23 26.0	S 13	4 54	5 32	18 25	19 2	Peacock	53 17.2	S 56 41.0			
	13	285 46.1	15 23.4	S 23 26.0	S 14	4 52	5 30	18 27	19 4	Pollux	243 25.2	N 27 59.0			
	14	300 48.6	30 23.1	S 23 26.0	S 15	4 50	5 28	18 29	19 7	Procyon	244 57.5	N 5 11.1			
	15	315 51.0	45 22.8	S 23 26.0	S 20	4 39	5 18	18 39	19 18	Rasalhague	96 5.3	N 12 33.2			
	16	330 53.5	60 22.5	S 23 26.0	S 25	4 26	5 8	18 49	19 30	Regulus	207 41.5	N 11 53.2			
	17	345 56.0	75 22.2	S 23 26.0	S 30	4 12	4 56	19 1	19 45	Rigel	281 10.1	S 8 11.2			
	18	0 58.4	90 21.9	S 23 26.0	S 35	3 55	4 43	19 14	20 2	Rigel Kent	139 47.8	S 60 53.9			
	19	16 0.9	105 21.5	S 23 26.0	S 40	3 35	4 28	19 29	20 22	Schedar	349 38.3	N 56 37.7			
	20	31 3.3	120 21.2	S 23 26.0	S 45	3 8	4 10	19 47	20 48	Shaula	96 20.0	S 37 6.6			
	21	46 5.8	135 20.9	S 23 26.0	S 50	2 32	3 47	20 9	21 24	Sirius	258 31.7	S 16 44.2			
	22	61 8.3	150 20.6	S 23 25.9	S 55	1 33	3 17	20 40	22 24	Spica	158 29.6	S 11 14.5			
23	76 10.7	165 20.3	S 23 25.9	S 60	—	2 32	21 24	—	Vega	80 38.3	N 38 48.1				
Día	Sol						Luna								
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase						
21	m s	m s	0.0	h m		9.9	75								
22	2 19	2 5	0.0	11 58		10.9	85								

Tabla G. Miércoles 23 de diciembre – jueves 24 de diciembre de 2015.


Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
23	h	° /	° /	° /	°	h m	h m	h m	h m						
	0	91 13.2	180 20.0	S 23 25.9	N 60	7 36	9 3	14 55	16 23	Achernar	335 25.4	S 57 9.7			
	1	106 15.7	195 19.7	S 23 25.9	N 55	7 14	8 24	15 34	16 45	Acrux	173 7.3	S 63 10.9			
	2	121 18.1	210 19.4	S 23 25.9	N 50	6 57	7 57	16 2	17 1	Adhara	255 10.8	S 28 59.8			
	3	136 20.6	225 19.1	S 23 25.9	N 45	6 44	7 36	16 22	17 15	Aldebaran	290 47.1	N 16 32.3			
	4	151 23.1	240 18.8	S 23 25.9	N 40	6 32	7 20	16 39	17 27	Alioth	166 19.5	N 55 52.2			
	5	166 25.5	255 18.4	S 23 25.8	N 35	6 21	7 5	16 53	17 38	Alkaid	152 57.8	N 49 13.9			
	6	181 28.0	270 18.1	S 23 25.8	N 30	6 11	6 53	17 6	17 47	Alnair	27 42.0	S 46 53.1			
	7	196 30.4	285 17.8	S 23 25.8	N 25	6 2	6 42	17 17	17 56	Alnilam	275 44.3	S 1 11.7			
	8	211 32.9	300 17.5	S 23 25.8	N 20	5 54	6 32	17 27	18 5	Alphard	217 54.2	S 8 43.8			
	9	226 35.4	315 17.2	S 23 25.7	N 15	5 45	6 22	17 37	18 13	Alpheratz	357 41.7	N 29 10.9			
	10	241 37.8	330 16.9	S 23 25.7	N 14	5 44	6 20	17 38	18 15	Altair	62 7.0	N 8 54.7			
	11	256 40.3	345 16.6	S 23 25.7	N 13	5 42	6 19	17 40	18 17	Antares	112 24.5	S 26 27.8			
	12	271 42.8	0 16.3	S 23 25.7	N 12	5 40	6 17	17 42	18 18	Arcturus	145 54.1	N 19 6.5			
	13	286 45.2	15 16.0	S 23 25.6	N 11	5 39	6 15	17 44	18 20	Atria	107 25.3	S 69 3.0			
	14	301 47.7	30 15.7	S 23 25.6	N 10	5 37	6 13	17 46	18 22	Avior	234 16.7	S 59 33.6			
	15	316 50.2	45 15.3	S 23 25.6	N 9	5 35	6 11	17 47	18 23	Bellatrix	278 29.8	N 6 21.6			
	16	331 52.6	60 15.0	S 23 25.6	N 8	5 34	6 10	17 49	18 25	Betelgeuse	270 59.1	N 7 24.4			
	17	346 55.1	75 14.7	S 23 25.5	N 7	5 32	6 8	17 51	18 27	Canopus	263 54.8	S 52 42.4			
	18	1 57.6	90 14.4	S 23 25.5	N 6	5 30	6 6	17 53	18 28	Capella	280 31.5	N 46 0.8			
	19	17 0.0	105 14.1	S 23 25.5	N 5	5 29	6 4	17 54	18 30	Deneb	49 30.6	N 45 20.5			
	20	32 2.5	120 13.8	S 23 25.4	N 4	5 27	6 3	17 56	18 32	Denebola	182 31.8	N 14 28.9			
	21	47 4.9	135 13.5	S 23 25.4	N 3	5 25	6 1	17 58	18 34	Dubhe	193 49.5	N 61 39.6			
22	62 7.4	150 13.2	S 23 25.4	N 2	5 23	5 59	18 0	18 35	Elnath	278 10.1	N 28 37.1				
23	77 9.9	165 12.9	S 23 25.3	N 1	5 22	5 57	18 1	18 37	Eltanin	90 45.9	N 51 29.4				
24	0	92 12.3	180 12.6	S 23 25.3	S 1	5 18	5 54	18 5	18 41	Enif	33 45.6	N 9 57.1			
	1	107 14.8	195 12.2	S 23 25.3	S 2	5 16	5 52	18 6	18 42	Formalhaut	15 22.4	S 29 32.3			
	2	122 17.3	210 11.9	S 23 25.2	S 3	5 15	5 50	18 8	18 44	Gacrux	171 58.9	S 57 11.8			
	3	137 19.7	225 11.6	S 23 25.2	S 4	5 13	5 49	18 10	18 46	Hadar	148 45.6	S 60 26.6			
	4	152 22.2	240 11.3	S 23 25.2	S 5	5 11	5 47	18 12	18 48	Hamal	327 58.7	N 23 32.3			
	5	167 24.7	255 11.0	S 23 25.1	S 6	5 9	5 45	18 13	18 50	Kaus Aust	83 42.0	S 34 22.4			
	6	182 27.1	270 10.7	S 23 25.1	S 7	5 7	5 43	18 15	18 51	Kochab	137 21.1	N 74 5.3			
	7	197 29.6	285 10.4	S 23 25.0	S 8	5 5	5 42	18 17	18 53	Markab	13 36.7	N 15 17.6			
	8	212 32.1	300 10.1	S 23 25.0	S 9	5 3	5 40	18 19	18 56	Menkent	148 5.5	S 36 26.5			
	9	227 34.5	315 9.8	S 23 25.0	S 10	5 1	5 38	18 21	18 57	Miaplacidu	221 38.3	S 69 46.9			
	10	242 37.0	330 9.5	S 23 24.9	S 11	4 59	5 36	18 22	18 59	Mirfak	308 37.4	N 49 55.0			
	11	257 39.4	345 9.1	S 23 24.9	S 12	4 57	5 34	18 24	19 1	Nunki	75 56.6	S 26 16.4			
	12	272 41.9	0 8.8	S 23 24.8	S 13	4 55	5 33	18 26	19 3	Peacock	53 17.2	S 56 41.0			
	13	287 44.4	15 8.5	S 23 24.8	S 14	4 53	5 31	18 28	19 5	Pollux	243 25.1	N 27 59.0			
	14	302 46.8	30 8.2	S 23 24.7	S 15	4 51	5 29	18 30	19 8	Procyon	244 57.5	N 5 11.1			
	15	317 49.3	45 7.9	S 23 24.7	S 20	4 40	5 19	18 40	19 19	Rasalhague	96 5.2	N 12 33.2			
	16	332 51.8	60 7.6	S 23 24.6	S 25	4 27	5 9	18 50	19 31	Regulus	207 41.5	N 11 53.2			
	17	347 54.2	75 7.3	S 23 24.6	S 30	4 13	4 57	19 2	19 46	Rigel	281 10.1	S 8 11.2			
	18	2 56.7	90 7.0	S 23 24.5	S 35	3 56	4 44	19 15	20 3	Rigel Kent	139 47.7	S 60 53.9			
	19	17 59.2	105 6.7	S 23 24.5	S 40	3 36	4 29	19 30	20 23	Schedar	349 38.4	N 56 37.7			
	20	33 1.6	120 6.4	S 23 24.4	S 45	3 10	4 11	19 48	20 49	Shaula	96 20.0	S 37 6.6			
	21	48 4.1	135 6.0	S 23 24.4	S 50	2 34	3 48	20 10	21 25	Sirius	258 31.7	S 16 44.2			
	22	63 6.6	150 5.7	S 23 24.3	S 55	1 34	3 18	20 40	22 25	Spica	158 29.5	S 11 14.5			
23	78 9.0	165 5.4	S 23 24.3	S 60	—	2 34	21 25	—	Vega	80 38.3	N 38 48.1				
Día	Sol						Luna								
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase						
23	m s	m s		h m											
24	1 20	1 5	0.0	11 59		12.0	92								
	0 50	0 35	0.0	11 59		13.1	97								

Tabla G. Viernes 25 de diciembre – sábado 26 de diciembre de 2015.

Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
25	h	° / ' / "	° / ' / "	° / ' / "	°	h m	h m	h m	h m	h m	h m	h m	° / ' / "	° / ' / "	° / ' / "
	0	93 11.5	180 5.1	S 23 24.2	N 60	7 36	9 4	14 57	16 24	Achernar	335 25.5	S 57 9.7			
	1	108 13.9	195 4.8	S 23 24.2	N 55	7 15	8 25	15 36	16 46	Acrux	173 7.2	S 63 10.9			
	2	123 16.4	210 4.5	S 23 24.1	N 50	6 58	7 58	16 3	17 3	Alhara	255 10.8	S 28 59.8			
	3	138 18.9	225 4.2	S 23 24.1	N 45	6 44	7 37	16 24	17 16	Aldebaran	290 47.1	N 16 32.3			
	4	153 21.3	240 3.9	S 23 24.0	N 40	6 32	7 20	16 40	17 28	Alioth	166 19.5	N 55 52.2			
	5	168 23.8	255 3.6	S 23 23.9	N 35	6 22	7 6	16 55	17 39	Alkaid	152 57.8	N 49 13.9			
	6	183 26.3	270 3.3	S 23 23.9	N 30	6 12	6 54	17 7	17 48	Alnair	27 42.0	S 46 53.1			
	7	198 28.7	285 3.0	S 23 23.8	N 25	6 3	6 43	17 18	17 57	Alnilam	275 44.3	S 1 11.7			
	8	213 31.2	300 2.6	S 23 23.8	N 20	5 55	6 33	17 28	18 6	Alphard	217 54.2	S 8 43.8			
	9	228 33.7	315 2.3	S 23 23.7	N 15	5 46	6 23	17 38	18 14	Alpheratz	357 41.7	N 29 10.9			
	10	243 36.1	330 2.0	S 23 23.6	N 14	5 45	6 21	17 39	18 16	Altair	62 7.0	N 8 54.7			
	11	258 38.6	345 1.7	S 23 23.6	N 13	5 43	6 19	17 41	18 18	Antares	112 24.5	S 26 27.8			
	12	273 41.0	0 1.4	S 23 23.5	N 12	5 41	6 18	17 43	18 19	Arcturus	145 54.1	N 19 6.5			
	13	288 43.5	15 1.1	S 23 23.4	N 11	5 40	6 16	17 45	18 21	Atria	107 25.2	S 69 3.0			
	14	303 46.0	30 0.8	S 23 23.4	N 10	5 38	6 14	17 47	18 23	Avior	234 16.6	S 59 33.7			
	15	318 48.4	45 0.5	S 23 23.3	N 9	5 36	6 12	17 48	18 24	Bellatrix	278 29.8	N 6 21.6			
	16	333 50.9	60 0.2	S 23 23.2	N 8	5 35	6 11	17 50	18 26	Betelgeuse	270 59.1	N 7 24.4			
	17	348 53.4	74 59.9	S 23 23.2	N 7	5 33	6 9	17 52	18 28	Canopus	263 54.8	S 52 42.5			
	18	3 55.8	89 59.6	S 23 23.1	N 6	5 31	6 7	17 54	18 29	Capella	280 31.5	N 46 0.8			
	19	18 58.3	104 59.2	S 23 23.0	N 5	5 30	6 5	17 55	18 31	Deneb	49 30.6	N 45 20.5			
	20	34 0.8	119 58.9	S 23 23.0	N 4	5 28	6 4	17 57	18 33	Denebola	182 31.8	N 14 28.9			
	21	49 3.2	134 58.6	S 23 22.9	N 3	5 26	6 2	17 59	18 35	Dubhe	193 49.5	N 61 39.6			
22	64 5.7	149 58.3	S 23 22.8	N 2	5 24	6 0	18 1	18 36	Elnath	278 10.1	N 28 37.1				
23	79 8.2	164 58.0	S 23 22.7	N 1	5 23	5 58	18 2	18 38	Eltanin	90 45.9	N 51 29.4				
26	0	94 10.6	179 57.7	S 23 22.7	S 1	5 19	5 55	18 6	18 41	Enif	33 45.6	N 9 57.1			
	1	109 13.1	194 57.4	S 23 22.6	S 2	5 17	5 53	18 7	18 43	Formalhaut	15 22.4	S 29 32.3			
	2	124 15.5	209 57.1	S 23 22.5	S 3	5 16	5 51	18 9	18 45	Gacrux	171 58.9	S 57 11.8			
	3	139 18.0	224 56.8	S 23 22.4	S 4	5 14	5 50	18 11	18 47	Hadar	148 45.6	S 60 26.6			
	4	154 20.5	239 56.5	S 23 22.4	S 5	5 12	5 48	18 13	18 49	Hamal	327 58.7	N 23 32.3			
	5	169 22.9	254 56.2	S 23 22.3	S 6	5 10	5 46	18 14	18 51	Kaus Aust	83 41.9	S 34 22.4			
	6	184 25.4	269 55.9	S 23 22.2	S 7	5 8	5 44	18 16	18 52	Kochab	137 21.1	N 74 5.3			
	7	199 27.9	284 55.5	S 23 22.1	S 8	5 6	5 43	18 18	18 54	Markab	13 36.7	N 15 17.6			
	8	214 30.3	299 55.2	S 23 22.1	S 9	5 4	5 41	18 20	18 57	Menkent	148 5.5	S 36 26.5			
	9	229 32.8	314 54.9	S 23 22.0	S 10	5 2	5 39	18 22	18 58	Miaplacidu	221 38.3	S 69 46.9			
	10	244 35.3	329 54.6	S 23 21.9	S 11	5 0	5 37	18 23	19 0	Mirfak	308 37.4	N 49 55.1			
	11	259 37.7	344 54.3	S 23 21.8	S 12	4 58	5 35	18 25	19 2	Nunki	75 56.6	S 26 16.4			
	12	274 40.2	359 54.0	S 23 21.7	S 13	4 56	5 34	18 27	19 4	Peacock	53 17.2	S 56 41.0			
	13	289 42.7	14 53.7	S 23 21.6	S 14	4 54	5 32	18 29	19 6	Pollux	243 25.1	N 27 59.0			
	14	304 45.1	29 53.4	S 23 21.6	S 15	4 52	5 30	18 31	19 8	Procyon	244 57.4	N 5 11.1			
	15	319 47.6	44 53.1	S 23 21.5	S 20	4 41	5 20	18 40	19 20	Rasalhague	96 5.2	N 12 33.2			
	16	334 50.0	59 52.8	S 23 21.4	S 25	4 28	5 10	18 51	19 32	Regulus	207 41.5	N 11 53.2			
	17	349 52.5	74 52.5	S 23 21.3	S 30	4 14	4 58	19 2	19 46	Rigel	281 10.1	S 8 11.2			
	18	4 55.0	89 52.2	S 23 21.2	S 35	3 57	4 45	19 15	20 3	Rigel Kent	139 47.7	S 60 53.9			
	19	19 57.4	104 51.8	S 23 21.1	S 40	3 37	4 30	19 30	20 24	Schedar	349 38.4	N 56 37.7			
	20	34 59.9	119 51.5	S 23 21.0	S 45	3 11	4 12	19 48	20 50	Shaula	96 20.0	S 37 6.6			
	21	50 2.4	134 51.2	S 23 20.9	S 50	2 35	3 50	20 11	21 25	Sirius	258 31.7	S 16 44.2			
	22	65 4.8	149 50.9	S 23 20.8	S 55	1 36	3 20	20 41	22 25	Spica	158 29.5	S 11 14.5			
23	80 7.3	164 50.6	S 23 20.7	S 60	—	2 35	21 25	—	Vega	80 38.3	N 38 48.1				
Sol													Luna		
Día	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase						
	m s	m s		h m											
25	0 20	0 6	0.1	12 0		14.2	99								
26	0 9	0 24	0.1	12 0		15.3	99								

Tabla G. Domingo 27 de diciembre – lunes 28 de diciembre de 2015.



Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
	h	° /	° /	° /	°	h m	h m	h m	h m	h m	h m	h m	° /	° /	° /
27	0	95 9.8	179 50.3	S 23 20.7	N 60	7 37	9 4	14 59	16 26	Achernar	335 25.5	S 57 9.7			
	1	110 12.2	194 50.0	S 23 20.6	N 55	7 15	8 25	15 38	16 47	Acrux	173 7.2	S 63 10.9			
	2	125 14.7	209 49.7	S 23 20.5	N 50	6 59	7 58	16 4	17 4	Adhara	255 10.8	S 28 59.8			
	3	140 17.1	224 49.4	S 23 20.4	N 45	6 45	7 38	16 25	17 18	Aldebaran	290 47.1	N 16 32.3			
	4	155 19.6	239 49.1	S 23 20.3	N 40	6 33	7 21	16 42	17 30	Alioth	166 19.5	N 55 52.2			
	5	170 22.1	254 48.8	S 23 20.2	N 35	6 23	7 7	16 56	17 40	Alkaid	152 57.8	N 49 13.9			
	6	185 24.5	269 48.5	S 23 20.1	N 30	6 13	6 55	17 8	17 50	Alnair	27 42.0	S 46 53.1			
	7	200 27.0	284 48.2	S 23 20.0	N 25	6 4	6 44	17 19	17 59	Alnilam	275 44.3	S 1 11.8			
	8	215 29.5	299 47.9	S 23 19.9	N 20	5 56	6 33	17 29	18 7	Alphard	217 54.2	S 8 43.8			
	9	230 31.9	314 47.5	S 23 19.8	N 15	5 47	6 24	17 39	18 15	Alpheratz	357 41.7	N 29 10.9			
	10	245 34.4	329 47.2	S 23 19.7	N 14	5 46	6 22	17 40	18 17	Altair	62 7.0	N 8 54.7			
	11	260 36.9	344 46.9	S 23 19.6	N 13	5 44	6 20	17 42	18 19	Antares	112 24.5	S 26 27.8			
	12	275 39.3	359 46.6	S 23 19.5	N 12	5 42	6 19	17 44	18 20	Arcturus	145 54.1	N 19 6.5			
	13	290 41.8	14 46.3	S 23 19.4	N 11	5 41	6 17	17 46	18 22	Atria	107 25.2	S 69 3.0			
	14	305 44.3	29 46.0	S 23 19.3	N 10	5 39	6 15	17 48	18 24	Avior	234 16.6	S 59 33.7			
	15	320 46.7	44 45.7	S 23 19.2	N 9	5 37	6 13	17 49	18 25	Bellatrix	278 29.8	N 6 21.6			
	16	335 49.2	59 45.4	S 23 19.0	N 8	5 36	6 12	17 51	18 27	Betelgeuse	270 59.1	N 7 24.4			
	17	350 51.6	74 45.1	S 23 18.9	N 7	5 34	6 10	17 53	18 29	Canopus	263 54.8	S 52 42.5			
	18	5 54.1	89 44.8	S 23 18.8	N 6	5 32	6 8	17 55	18 30	Capella	280 31.4	N 46 0.8			
	19	20 56.6	104 44.5	S 23 18.7	N 5	5 31	6 6	17 56	18 32	Deneb	49 30.6	N 45 20.5			
	20	35 59.0	119 44.2	S 23 18.6	N 4	5 29	6 5	17 58	18 34	Denebola	182 31.8	N 14 28.9			
	21	51 1.5	134 43.9	S 23 18.5	N 3	5 27	6 3	18 0	18 36	Dubhe	193 49.5	N 61 39.6			
	22	66 4.0	149 43.6	S 23 18.4	N 2	5 25	6 1	18 2	18 37	Elnath	278 10.1	N 28 37.1			
23	81 6.4	164 43.3	S 23 18.3	N 1	5 24	5 59	18 3	18 39	Eltanin	90 45.9	N 51 29.4				
	0	96 8.9	179 42.9	S 23 18.2	S 1	5 20	5 56	18 7	18 42	Enif	33 45.6	N 9 57.1			
	1	111 11.4	194 42.6	S 23 18.1	S 2	5 18	5 54	18 8	18 44	Formalhaut	15 22.4	S 29 32.3			
	2	126 13.8	209 42.3	S 23 17.9	S 3	5 17	5 52	18 10	18 46	Gacrux	171 58.9	S 57 11.8			
	3	141 16.3	224 42.0	S 23 17.8	S 4	5 15	5 51	18 12	18 48	Hadar	148 45.6	S 60 26.6			
	4	156 18.8	239 41.7	S 23 17.7	S 5	5 13	5 49	18 14	18 50	Hamal	327 58.7	N 23 32.3			
	5	171 21.2	254 41.4	S 23 17.6	S 6	5 11	5 47	18 15	18 51	Kaus Aust	83 41.9	S 34 22.4			
	6	186 23.7	269 41.1	S 23 17.5	S 7	5 9	5 46	18 17	18 53	Kochab	137 21.0	N 74 5.3			
	7	201 26.1	284 40.8	S 23 17.4	S 8	5 7	5 44	18 19	18 55	Markab	13 36.7	N 15 17.6			
	8	216 28.6	299 40.5	S 23 17.2	S 9	5 5	5 42	18 21	18 57	Menkent	148 5.5	S 36 26.5			
	9	231 31.1	314 40.2	S 23 17.1	S 10	5 4	5 40	18 22	18 59	Miaplacidu	221 38.3	S 69 46.9			
	10	246 33.5	329 39.9	S 23 17.0	S 11	5 2	5 38	18 24	19 1	Mirfak	308 37.4	N 49 55.1			
	11	261 36.0	344 39.6	S 23 16.9	S 12	5 0	5 37	18 26	19 3	Nunki	75 56.6	S 26 16.4			
28	12	276 38.5	359 39.3	S 23 16.7	S 13	4 58	5 35	18 28	19 5	Peacock	53 17.2	S 56 41.0			
	13	291 40.9	14 39.0	S 23 16.6	S 14	4 55	5 33	18 30	19 7	Pollux	243 25.1	N 27 59.0			
	14	306 43.4	29 38.7	S 23 16.5	S 15	4 53	5 31	18 32	19 9	Procyon	244 57.4	N 5 11.1			
	15	321 45.9	44 38.4	S 23 16.4	S 20	4 42	5 21	18 41	19 20	Rasalhague	96 5.2	N 12 33.2			
	16	336 48.3	59 38.1	S 23 16.2	S 25	4 30	5 11	18 52	19 33	Regulus	207 41.5	N 11 53.2			
	17	351 50.8	74 37.8	S 23 16.1	S 30	4 15	4 59	19 3	19 47	Rigel	281 10.1	S 8 11.2			
	18	6 53.2	89 37.5	S 23 16.0	S 35	3 59	4 46	19 16	20 4	Rigel Kent	139 47.7	S 60 53.9			
	19	21 55.7	104 37.1	S 23 15.9	S 40	3 38	4 31	19 31	20 24	Schedar	349 38.4	N 56 37.7			
	20	36 58.2	119 36.8	S 23 15.7	S 45	3 12	4 14	19 49	20 50	Shaula	96 20.0	S 37 6.6			
	21	52 0.6	134 36.5	S 23 15.6	S 50	2 37	3 51	20 11	21 26	Sirius	258 31.7	S 16 44.2			
	22	67 3.1	149 36.2	S 23 15.5	S 55	1 38	3 21	20 41	22 24	Spica	158 29.5	S 11 14.5			
	23	82 5.6	164 35.9	S 23 15.3	S 60	—	2 37	21 25	—	—	Vega	80 38.3	N 38 48.0		
			Sol						Luna						
Día		Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano		Edad día	Porcentaje de iluminación		Fase					
		m s	m s		h m										
27		0 39	0 54	0.1	12 1		16.4	97							
28		1 8	1 23	0.1	12 1		17.4	92							

Tabla G. Martes 29 de diciembre – miércoles 30 de diciembre de 2015.

Día	TU	Aries			Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.	Nombre	SHA	Dec.								
29	h	° /	° /	° /	°	h m	h m	h m	h m						
	0	97 8.0	179 35.6	S 23 15.2	N 60	7 37	9 3	15 1	16 28	Achernar	335 25.5	S 57 9.7			
	1	112 10.5	194 35.3	S 23 15.1	N 55	7 16	8 25	15 39	16 49	Acrux	173 7.2	S 63 10.9			
	2	127 13.0	209 35.0	S 23 14.9	N 50	6 59	7 59	16 6	17 6	Alhara	255 10.8	S 28 59.8			
	3	142 15.4	224 34.7	S 23 14.8	N 45	6 45	7 38	16 27	17 19	Aldebaran	290 47.1	N 16 32.3			
	4	157 17.9	239 34.4	S 23 14.7	N 40	6 34	7 22	16 43	17 31	Alioth	166 19.4	N 55 52.1			
	5	172 20.4	254 34.1	S 23 14.5	N 35	6 23	7 7	16 57	17 41	Alkaid	152 57.8	N 49 13.9			
	6	187 22.8	269 33.8	S 23 14.4	N 30	6 14	6 55	17 9	17 51	Alnair	27 42.0	S 46 53.1			
	7	202 25.3	284 33.5	S 23 14.3	N 25	6 5	6 44	17 20	18 0	Alnilam	275 44.3	S 1 11.8			
	8	217 27.7	299 33.2	S 23 14.1	N 20	5 56	6 34	17 30	18 8	Alphard	217 54.1	S 8 43.8			
	9	232 30.2	314 32.9	S 23 14.0	N 15	5 48	6 25	17 40	18 17	Alpheratz	357 41.7	N 29 10.9			
	10	247 32.7	329 32.6	S 23 13.8	N 14	5 46	6 23	17 42	18 18	Altair	62 7.0	N 8 54.7			
	11	262 35.1	344 32.3	S 23 13.7	N 13	5 45	6 21	17 43	18 20	Antares	112 24.4	S 26 27.8			
	12	277 37.6	359 32.0	S 23 13.6	N 12	5 43	6 19	17 45	18 21	Arcturus	145 54.0	N 19 6.0			
	13	292 40.1	14 31.7	S 23 13.4	N 11	5 41	6 18	17 47	18 23	Atria	107 25.2	S 69 3.5			
	14	307 42.5	29 31.4	S 23 13.3	N 10	5 40	6 16	17 49	18 25	Avior	234 16.6	S 59 33.7			
	15	322 45.0	44 31.1	S 23 13.1	N 9	5 38	6 14	17 50	18 26	Bellatrix	278 29.8	N 6 21.6			
	16	337 47.5	59 30.8	S 23 13.0	N 8	5 37	6 12	17 52	18 28	Betelgeuse	270 59.1	N 7 24.4			
	17	352 49.9	74 30.5	S 23 12.8	N 7	5 35	6 11	17 54	18 30	Canopus	263 54.8	S 52 42.5			
	18	7 52.4	89 30.2	S 23 12.7	N 6	5 33	6 9	17 56	18 31	Capella	280 31.4	N 46 0.8			
	19	22 54.9	104 29.9	S 23 12.5	N 5	5 32	6 7	17 57	18 33	Deneb	49 30.6	N 45 20.5			
	20	37 57.3	119 29.6	S 23 12.4	N 4	5 30	6 6	17 59	18 35	Denebola	182 31.7	N 14 28.9			
	21	52 59.8	134 29.3	S 23 12.2	N 3	5 28	6 4	18 1	18 36	Dubhe	193 49.4	N 61 39.6			
22	68 2.2	149 29.0	S 23 12.1	N 2	5 26	6 2	18 3	18 38	Elnath	278 10.1	N 28 37.1				
23	83 4.7	164 28.6	S 23 11.9	N 1	5 25	6 0	18 4	18 40	Eltanin	90 45.9	N 51 29.4				
30	0	98 7.2	179 28.3	S 23 11.8	S 1	5 21	5 57	18 8	18 43	Enif	33 45.7	N 9 57.0			
	1	113 9.6	194 28.0	S 23 11.6	S 2	5 19	5 55	18 9	18 45	Formalhaut	15 22.4	S 29 32.3			
	2	128 12.1	209 27.7	S 23 11.5	S 3	5 18	5 53	18 11	18 47	Gacrux	171 58.8	S 57 11.8			
	3	143 14.6	224 27.4	S 23 11.3	S 4	5 16	5 52	18 13	18 49	Hadar	148 45.5	S 60 26.6			
	4	158 17.0	239 27.1	S 23 11.2	S 5	5 14	5 50	18 15	18 51	Hamal	327 58.7	N 23 32.3			
	5	173 19.5	254 26.8	S 23 11.0	S 6	5 12	5 48	18 16	18 52	Kaus Aust	83 41.9	S 34 22.4			
	6	188 22.0	269 26.5	S 23 10.9	S 7	5 10	5 47	18 18	18 54	Kochab	137 21.0	N 74 5.2			
	7	203 24.4	284 26.2	S 23 10.7	S 8	5 8	5 45	18 20	18 56	Markab	13 36.7	N 15 17.6			
	8	218 26.9	299 25.9	S 23 10.5	S 9	5 6	5 43	18 22	18 58	Menkent	148 5.5	S 36 26.5			
	9	233 29.4	314 25.6	S 23 10.4	S 10	5 5	5 41	18 23	19 0	Miaplacidu	221 38.3	S 69 46.9			
	10	248 31.8	329 25.3	S 23 10.2	S 11	5 3	5 39	18 25	19 2	Mirfak	308 37.4	N 49 55.1			
	11	263 34.3	344 25.0	S 23 10.1	S 12	5 1	5 38	18 27	19 4	Nunki	75 56.6	S 26 16.4			
	12	278 36.7	359 24.7	S 23 9.9	S 13	4 59	5 36	18 29	19 6	Peacock	53 17.2	S 56 40.9			
	13	293 39.2	14 24.4	S 23 9.7	S 14	4 57	5 34	18 31	19 8	Pollux	243 25.1	N 27 59.0			
	14	308 41.7	29 24.1	S 23 9.6	S 15	4 54	5 32	18 32	19 10	Procyon	244 57.4	N 5 11.1			
	15	323 44.1	44 23.8	S 23 9.4	S 20	4 43	5 22	18 42	19 21	Rasalhague	96 5.2	N 12 33.2			
	16	338 46.6	59 23.5	S 23 9.2	S 25	4 31	5 12	18 52	19 34	Regulus	207 41.4	N 11 53.2			
	17	353 49.1	74 23.2	S 23 9.1	S 30	4 17	5 1	19 4	19 48	Rigel	281 10.1	S 8 11.2			
	18	8 51.5	89 22.9	S 23 8.9	S 35	4 0	4 48	19 17	20 4	Rigel Kent	139 47.7	S 60 53.9			
	19	23 54.0	104 22.6	S 23 8.7	S 40	3 40	4 33	19 32	20 24	Schedar	349 38.4	N 56 37.7			
	20	38 56.5	119 22.3	S 23 8.6	S 45	3 14	4 15	19 49	20 50	Shaula	96 20.0	S 37 6.6			
	21	53 58.9	134 22.0	S 23 8.4	S 50	2 39	3 53	20 11	21 25	Sirius	258 31.7	S 16 44.2			
	22	69 1.4	149 21.7	S 23 8.2	S 55	1 41	3 23	20 41	22 23	Spica	158 29.5	S 11 14.5			
23	84 3.8	164 21.4	S 23 8.1	S 60	—	2 40	21 24	—	Vega	80 38.3	N 38 48.0				
Día	Sol				Luna										
	Ecuación del tiempo (00 ^h)		Corr. d	Paso por el meridiano	Edad día	Porcentaje de iluminación	Fase								
29	m s	m s		h m											
30	1 38	1 52	0.1	12 2	18.4	86									
	2 7	2 21	0.1	12 2	19.3	79									



Tabla G. Sábado 31 de diciembre de 2015. – viernes 1 de enero de 2016.

Día	TU	Sol			Lat.	Crep. obs. matu.	Orto	Ocaso	Crep. obs. vesp.	Estrellas		
		GHA	GHA	Dec.						Nombre	SHA	Dec.
31	h	° /	° /	° /	°	h m	h m	h m	h m		° /	° /
	0	99 6.3	179 21.1	S 23 7.9	N 60	7 37	9 3	15 4	16 30	Achernar	335 25.5	S 57 9.7
	1	114 8.8	194 20.8	S 23 7.7	N 55	7 16	8 25	15 42	16 51	Acruz	173 7.2	S 63 10.9
	2	129 11.2	209 20.5	S 23 7.6	N 50	6 59	7 59	16 8	17 7	Adhara	255 10.8	S 28 59.8
	3	144 13.7	224 20.2	S 23 7.4	N 45	6 46	7 38	16 28	17 21	Aldebaran	290 47.1	N 16 32.3
	4	159 16.2	239 19.9	S 23 7.2	N 40	6 34	7 22	16 45	17 32	Alioth	166 19.4	N 55 52.1
	5	174 18.6	254 19.6	S 23 7.0	N 35	6 24	7 8	16 59	17 43	Alkaid	152 57.7	N 49 13.9
	6	189 21.1	269 19.3	S 23 6.9	N 30	6 14	6 56	17 11	17 52	Alnair	27 42.0	S 46 53.1
	7	204 23.6	284 19.0	S 23 6.7	N 25	6 6	6 45	17 22	18 1	Alnilam	275 44.3	S 1 11.8
	8	219 26.0	299 18.7	S 23 6.5	N 20	5 57	6 35	17 32	18 9	Alphard	217 54.1	S 8 43.8
	9	234 28.5	314 18.4	S 23 6.3	N 15	5 49	6 26	17 41	18 18	Alpheratz	357 41.7	N 29 10.9
	10	249 31.0	329 18.1	S 23 6.1	N 14	5 47	6 24	17 43	18 19	Altair	62 7.0	N 8 54.7
	11	264 33.4	344 17.8	S 23 6.0	N 13	5 46	6 22	17 45	18 21	Antares	112 24.4	S 26 27.8
	12	279 35.9	359 17.5	S 23 5.8	N 12	5 44	6 20	17 46	18 23	Arcturus	145 54.0	N 19 6.5
	13	294 38.3	14 17.2	S 23 5.6	N 11	5 42	6 19	17 48	18 24	Atria	107 25.2	S 69 3.0
	14	309 40.8	29 16.9	S 23 5.4	N 10	5 41	6 17	17 50	18 26	Avior	234 16.6	S 59 33.7
	15	324 43.3	44 16.6	S 23 5.2	N 9	5 39	6 15	17 52	18 27	Bellatrix	278 29.8	N 6 21.6
	16	339 45.7	59 16.3	S 23 5.0	N 8	5 37	6 13	17 53	18 29	Betelgeuse	270 59.1	N 7 24.3
	17	354 48.2	74 16.0	S 23 4.9	N 7	5 36	6 12	17 55	18 31	Canopus	263 54.8	S 52 42.5
	18	9 50.7	89 15.7	S 23 4.7	N 6	5 34	6 10	17 57	18 32	Capella	280 31.4	N 46 0.8
	19	24 53.1	104 15.4	S 23 4.5	N 5	5 32	6 8	17 58	18 34	Deneb	49 30.7	N 45 20.5
	20	39 55.6	119 15.1	S 23 4.3	N 4	5 31	6 6	18 0	18 36	Denebola	182 31.7	N 14 28.9
	21	54 58.1	134 14.8	S 23 4.1	N 3	5 29	6 5	18 2	18 37	Dubhe	193 49.4	N 61 39.6
22	70 0.5	149 14.6	S 23 3.9	N 2	5 27	6 3	18 4	18 39	Elnath	278 10.1	N 28 37.1	
23	85 3.0	164 14.3	S 23 3.7	N 1	5 26	6 1	18 5	18 41	Eltanin	90 45.9	N 51 29.4	
1	0	100 5.5	179 14.0	S 23 3.5	S 1	5 22	5 58	18 9	18 44	Enif	33 45.7	N 9 57.0
	1	115 7.9	194 13.7	S 23 3.4	S 2	5 20	5 56	18 10	18 46	Formalhaut	15 22.4	S 29 32.3
	2	130 10.4	209 13.4	S 23 3.2	S 3	5 19	5 54	18 12	18 48	Gacrux	171 58.8	S 57 11.8
	3	145 12.8	224 13.1	S 23 3.0	S 4	5 17	5 53	18 14	18 50	Hadar	148 45.5	S 60 26.6
	4	160 15.3	239 12.8	S 23 2.8	S 5	5 15	5 51	18 15	18 51	Hamal	327 58.7	N 23 32.3
	5	175 17.8	254 12.5	S 23 2.6	S 6	5 13	5 49	18 17	18 53	Kaus Aust	83 41.9	S 34 22.4
	6	190 20.2	269 12.2	S 23 2.4	S 7	5 11	5 48	18 19	18 55	Kochab	137 21.0	N 74 5.2
	7	205 22.7	284 11.9	S 23 2.2	S 8	5 10	5 46	18 21	18 57	Markab	13 36.7	N 15 17.6
	8	220 25.2	299 11.6	S 23 2.0	S 9	5 7	5 44	18 23	18 59	Menkent	148 5.5	S 36 26.5
	9	235 27.6	314 11.3	S 23 1.8	S 10	5 6	5 42	18 24	19 1	Miaplacidu	221 38.2	S 69 46.9
	10	250 30.1	329 11.0	S 23 1.6	S 11	5 4	5 41	18 26	19 3	Mirfak	308 37.5	N 49 55.1
	11	265 32.6	344 10.7	S 23 1.4	S 12	5 2	5 39	18 28	19 5	Nunki	75 56.6	S 26 16.4
	12	280 35.0	359 10.4	S 23 1.2	S 13	5 0	5 37	18 30	19 7	Peacock	53 17.2	S 56 40.9
	13	295 37.5	14 10.1	S 23 1.0	S 14	4 58	5 35	18 31	19 9	Pollux	243 25.1	N 27 59.0
	14	310 39.9	29 9.8	S 23 0.8	S 15	4 56	5 33	18 33	19 11	Procyon	244 57.4	N 5 11.1
	15	325 42.4	44 9.5	S 23 0.6	S 20	4 45	5 24	18 43	19 22	Rasalhague	96 5.2	N 12 33.1
	16	340 44.9	59 9.2	S 23 0.4	S 25	4 32	5 13	18 53	19 34	Regulus	207 41.4	N 11 53.2
	17	355 47.3	74 8.9	S 23 0.2	S 30	4 18	5 2	19 4	19 48	Rigel	281 10.1	S 8 11.3
	18	10 49.8	89 8.6	S 23 0.0	S 35	4 2	4 49	19 17	20 5	Rigel Kent	139 47.6	S 60 53.9
	19	25 52.3	104 8.3	S 22 59.8	S 40	3 42	4 34	19 32	20 25	Schedar	349 38.4	N 56 37.7
	20	40 54.7	119 8.0	S 22 59.6	S 45	3 16	4 17	19 49	20 50	Shaula	96 20.0	S 37 6.6
	21	55 57.2	134 7.7	S 22 59.4	S 50	2 41	3 55	20 11	21 25	Sirius	258 31.7	S 16 44.2
	22	70 59.7	149 7.4	S 22 59.2	S 55	1 44	3 26	20 40	22 21	Spica	158 29.5	S 11 14.5
23	86 2.1	164 7.2	S 22 58.9	S 60	—	2 42	21 23	—	Vega	80 38.3	N 38 48.0	
Día	Sol				Luna							
	Ecuación del tiempo (00 ^h)		Corr. <i>d</i>	Paso por el meridiano	Edad día	Porcentaje de iluminación	Fase					
31	m s	m s		h m								
	2 36	2 50	0.2	12 3	20.2	71						
1	3 4	3 18	0.2	12 3	21.0	61						

Tablas H. Incrementos y correcciones para los minutos.

0 ^m				1 ^m				2 ^m						
Sol	Aries	d	Corr.	Sol	Aries	d	Corr.	Sol	Aries	d	Corr.			
s	° /	° /	' /	s	° /	° /	' /	s	° /	° /	' /			
00	0 0.0	0 0.0	0.0	0.0	00	0 15.0	0 15.0	0.0	0.0	00	0 30.0	0 30.1	0.0	0.0
01	0 0.3	0 0.3	0.1	0.0	01	0 15.3	0 15.3	0.1	0.0	01	0 30.3	0 30.3	0.1	0.0
02	0 0.5	0 0.5	0.2	0.0	02	0 15.5	0 15.5	0.2	0.0	02	0 30.5	0 30.6	0.2	0.0
03	0 0.8	0 0.8	0.3	0.0	03	0 15.8	0 15.8	0.3	0.0	03	0 30.7	0 30.8	0.3	0.0
04	0 1.0	0 1.0	0.4	0.0	04	0 16.0	0 16.0	0.4	0.0	04	0 31.0	0 31.1	0.4	0.0
05	0 1.3	0 1.3	0.5	0.0	05	0 16.3	0 16.3	0.5	0.0	05	0 31.3	0 31.3	0.5	0.0
06	0 1.5	0 1.5	0.6	0.0	06	0 16.5	0 16.5	0.6	0.0	06	0 31.5	0 31.6	0.6	0.0
07	0 1.8	0 1.8	0.7	0.0	07	0 16.7	0 16.8	0.7	0.0	07	0 31.8	0 31.8	0.7	0.0
08	0 2.0	0 2.0	0.8	0.0	08	0 17.0	0 17.0	0.8	0.0	08	0 32.0	0 32.1	0.8	0.0
09	0 2.3	0 2.3	0.9	0.0	09	0 17.3	0 17.3	0.9	0.0	09	0 32.3	0 32.3	0.9	0.0
10	0 2.5	0 2.5	1.0	0.0	10	0 17.5	0 17.5	1.0	0.0	10	0 32.5	0 32.6	1.0	0.0
11	0 2.8	0 2.8	1.1	0.0	11	0 17.8	0 17.8	1.1	0.0	11	0 32.8	0 32.8	1.1	0.0
12	0 3.0	0 3.0	1.2	0.0	12	0 18.0	0 18.0	1.2	0.0	12	0 33.0	0 33.1	1.2	0.0
13	0 3.2	0 3.3	1.3	0.0	13	0 18.3	0 18.3	1.3	0.0	13	0 33.3	0 33.3	1.3	0.0
14	0 3.5	0 3.5	1.4	0.0	14	0 18.5	0 18.6	1.4	0.0	14	0 33.5	0 33.6	1.4	0.0
15	0 3.8	0 3.8	1.5	0.0	15	0 18.8	0 18.8	1.5	0.0	15	0 33.8	0 33.8	1.5	0.1
16	0 4.0	0 4.0	1.6	0.0	16	0 19.0	0 19.1	1.6	0.0	16	0 34.0	0 34.1	1.6	0.1
17	0 4.3	0 4.3	1.7	0.0	17	0 19.3	0 19.3	1.7	0.0	17	0 34.3	0 34.3	1.7	0.1
18	0 4.5	0 4.5	1.8	0.0	18	0 19.5	0 19.6	1.8	0.0	18	0 34.5	0 34.6	1.8	0.1
19	0 4.8	0 4.8	1.9	0.0	19	0 19.8	0 19.8	1.9	0.0	19	0 34.8	0 34.8	1.9	0.1
20	0 5.0	0 5.0	2.0	0.0	20	0 20.0	0 20.1	2.0	0.0	20	0 35.0	0 35.1	2.0	0.1
21	0 5.3	0 5.3	2.1	0.0	21	0 20.2	0 20.3	2.1	0.0	21	0 35.3	0 35.3	2.1	0.1
22	0 5.5	0 5.5	2.2	0.0	22	0 20.5	0 20.6	2.2	0.0	22	0 35.5	0 35.6	2.2	0.1
23	0 5.8	0 5.8	2.3	0.0	23	0 20.8	0 20.8	2.3	0.0	23	0 35.8	0 35.8	2.3	0.1
24	0 6.0	0 6.0	2.4	0.0	24	0 21.0	0 21.1	2.4	0.0	24	0 36.0	0 36.1	2.4	0.1
25	0 6.2	0 6.3	2.5	0.0	25	0 21.2	0 21.3	2.5	0.0	25	0 36.3	0 36.3	2.5	0.1
26	0 6.5	0 6.5	2.6	0.0	26	0 21.5	0 21.6	2.6	0.0	26	0 36.5	0 36.6	2.6	0.1
27	0 6.7	0 6.8	2.7	0.0	27	0 21.8	0 21.8	2.7	0.0	27	0 36.8	0 36.9	2.7	0.1
28	0 7.0	0 7.0	2.8	0.0	28	0 22.0	0 22.1	2.8	0.0	28	0 37.0	0 37.1	2.8	0.1
29	0 7.3	0 7.3	2.9	0.0	29	0 22.3	0 22.3	2.9	0.0	29	0 37.3	0 37.4	2.9	0.1
30	0 7.5	0 7.5	3.0	0.0	30	0 22.5	0 22.6	3.0	0.1	30	0 37.5	0 37.6	3.0	0.1
31	0 7.7	0 7.8	3.1	0.0	31	0 22.8	0 22.8	3.1	0.1	31	0 37.8	0 37.9	3.1	0.1
32	0 8.0	0 8.0	3.2	0.0	32	0 23.0	0 23.1	3.2	0.1	32	0 38.0	0 38.1	3.2	0.1
33	0 8.3	0 8.3	3.3	0.0	33	0 23.3	0 23.3	3.3	0.1	33	0 38.3	0 38.4	3.3	0.1
34	0 8.5	0 8.5	3.4	0.0	34	0 23.5	0 23.6	3.4	0.1	34	0 38.5	0 38.6	3.4	0.1
35	0 8.8	0 8.8	3.5	0.0	35	0 23.8	0 23.8	3.5	0.1	35	0 38.8	0 38.9	3.5	0.1
36	0 9.0	0 9.0	3.6	0.0	36	0 24.0	0 24.1	3.6	0.1	36	0 39.0	0 39.1	3.6	0.1
37	0 9.3	0 9.3	3.7	0.0	37	0 24.3	0 24.3	3.7	0.1	37	0 39.3	0 39.4	3.7	0.1
38	0 9.5	0 9.5	3.8	0.0	38	0 24.5	0 24.6	3.8	0.1	38	0 39.5	0 39.6	3.8	0.1
39	0 9.8	0 9.8	3.9	0.0	39	0 24.8	0 24.8	3.9	0.1	39	0 39.8	0 39.9	3.9	0.1
40	0 10.0	0 10.0	4.0	0.0	40	0 25.0	0 25.1	4.0	0.1	40	0 40.0	0 40.1	4.0	0.1
41	0 10.3	0 10.3	4.1	0.0	41	0 25.3	0 25.3	4.1	0.1	41	0 40.3	0 40.4	4.1	0.1
42	0 10.5	0 10.5	4.2	0.0	42	0 25.5	0 25.6	4.2	0.1	42	0 40.5	0 40.6	4.2	0.1
43	0 10.8	0 10.8	4.3	0.0	43	0 25.8	0 25.8	4.3	0.1	43	0 40.8	0 40.9	4.3	0.1
44	0 11.0	0 11.0	4.4	0.0	44	0 26.0	0 26.1	4.4	0.1	44	0 41.0	0 41.1	4.4	0.1
45	0 11.3	0 11.3	4.5	0.0	45	0 26.3	0 26.3	4.5	0.1	45	0 41.3	0 41.4	4.5	0.1
46	0 11.5	0 11.5	4.6	0.0	46	0 26.5	0 26.6	4.6	0.1	46	0 41.5	0 41.6	4.6	0.2
47	0 11.8	0 11.8	4.7	0.0	47	0 26.8	0 26.8	4.7	0.1	47	0 41.8	0 41.9	4.7	0.2
48	0 12.0	0 12.0	4.8	0.0	48	0 27.0	0 27.1	4.8	0.1	48	0 42.0	0 42.1	4.8	0.2
49	0 12.3	0 12.3	4.9	0.0	49	0 27.3	0 27.3	4.9	0.1	49	0 42.3	0 42.4	4.9	0.2
50	0 12.5	0 12.5	5.0	0.0	50	0 27.5	0 27.6	5.0	0.1	50	0 42.5	0 42.6	5.0	0.2
51	0 12.8	0 12.8	5.1	0.0	51	0 27.8	0 27.8	5.1	0.1	51	0 42.8	0 42.9	5.1	0.2
52	0 13.0	0 13.0	5.2	0.0	52	0 28.0	0 28.1	5.2	0.1	52	0 43.0	0 43.1	5.2	0.2
53	0 13.3	0 13.3	5.3	0.0	53	0 28.3	0 28.3	5.3	0.1	53	0 43.3	0 43.4	5.3	0.2
54	0 13.5	0 13.5	5.4	0.0	54	0 28.5	0 28.6	5.4	0.1	54	0 43.5	0 43.6	5.4	0.2
55	0 13.8	0 13.8	5.5	0.0	55	0 28.7	0 28.8	5.5	0.1	55	0 43.8	0 43.9	5.5	0.2
56	0 14.0	0 14.0	5.6	0.0	56	0 29.0	0 29.1	5.6	0.1	56	0 44.0	0 44.1	5.6	0.2
57	0 14.3	0 14.3	5.7	0.0	57	0 29.3	0 29.3	5.7	0.1	57	0 44.2	0 44.4	5.7	0.2
58	0 14.5	0 14.5	5.8	0.0	58	0 29.5	0 29.6	5.8	0.1	58	0 44.5	0 44.6	5.8	0.2
59	0 14.8	0 14.8	5.9	0.0	59	0 29.7	0 29.8	5.9	0.1	59	0 44.8	0 44.9	5.9	0.2
60	0 15.0	0 15.0	6.0	0.1	60	0 30.0	0 30.1	6.0	0.2	60	0 45.0	0 45.1	6.0	0.3

Tablas H. Incrementos y correcciones para los minutos.

3 ^m					4 ^m					5 ^m				
Sol	Aries		d	Corr.	Sol	Aries	d	Corr.	Sol	Aries	d	Corr.		
s	° /	° /	/	/	s	° /	° /	/	/	s	° /	° /	/	/
00	0 45.0	0 45.1	0.0	0.0	00	1 0.0	1 0.2	0.0	0.0	00	1 15.0	1 15.2	0.0	0.0
01	0 45.3	0 45.4	0.1	0.0	01	1 0.2	1 0.4	0.1	0.0	01	1 15.3	1 15.5	0.1	0.0
02	0 45.5	0 45.6	0.2	0.0	02	1 0.5	1 0.7	0.2	0.0	02	1 15.5	1 15.7	0.2	0.0
03	0 45.8	0 45.9	0.3	0.0	03	1 0.8	1 0.9	0.3	0.0	03	1 15.7	1 16.0	0.3	0.0
04	0 46.0	0 46.1	0.4	0.0	04	1 1.0	1 1.2	0.4	0.0	04	1 16.0	1 16.2	0.4	0.0
05	0 46.2	0 46.4	0.5	0.0	05	1 1.2	1 1.4	0.5	0.0	05	1 16.3	1 16.5	0.5	0.0
06	0 46.5	0 46.6	0.6	0.0	06	1 1.5	1 1.7	0.6	0.0	06	1 16.5	1 16.7	0.6	0.0
07	0 46.8	0 46.9	0.7	0.0	07	1 1.7	1 1.9	0.7	0.0	07	1 16.7	1 17.0	0.7	0.1
08	0 47.0	0 47.1	0.8	0.0	08	1 2.0	1 2.2	0.8	0.1	08	1 17.0	1 17.2	0.8	0.1
09	0 47.3	0 47.4	0.9	0.0	09	1 2.3	1 2.4	0.9	0.1	09	1 17.2	1 17.5	0.9	0.1
10	0 47.5	0 47.6	1.0	0.1	10	1 2.5	1 2.7	1.0	0.1	10	1 17.5	1 17.7	1.0	0.1
11	0 47.8	0 47.9	1.1	0.1	11	1 2.8	1 2.9	1.1	0.1	11	1 17.8	1 18.0	1.1	0.1
12	0 48.0	0 48.1	1.2	0.1	12	1 3.0	1 3.2	1.2	0.1	12	1 18.0	1 18.2	1.2	0.1
13	0 48.3	0 48.4	1.3	0.1	13	1 3.3	1 3.4	1.3	0.1	13	1 18.3	1 18.5	1.3	0.1
14	0 48.5	0 48.6	1.4	0.1	14	1 3.5	1 3.7	1.4	0.1	14	1 18.5	1 18.7	1.4	0.1
15	0 48.8	0 48.9	1.5	0.1	15	1 3.8	1 3.9	1.5	0.1	15	1 18.8	1 19.0	1.5	0.1
16	0 49.0	0 49.1	1.6	0.1	16	1 4.0	1 4.2	1.6	0.1	16	1 19.0	1 19.2	1.6	0.1
17	0 49.3	0 49.4	1.7	0.1	17	1 4.2	1 4.4	1.7	0.1	17	1 19.3	1 19.5	1.7	0.1
18	0 49.5	0 49.6	1.8	0.1	18	1 4.5	1 4.7	1.8	0.1	18	1 19.5	1 19.7	1.8	0.1
19	0 49.8	0 49.9	1.9	0.1	19	1 4.8	1 4.9	1.9	0.1	19	1 19.7	1 20.0	1.9	0.2
20	0 50.0	0 50.1	2.0	0.1	20	1 5.0	1 5.2	2.0	0.1	20	1 20.0	1 20.2	2.0	0.2
21	0 50.3	0 50.4	2.1	0.1	21	1 5.2	1 5.4	2.1	0.1	21	1 20.3	1 20.5	2.1	0.2
22	0 50.5	0 50.6	2.2	0.1	22	1 5.5	1 5.7	2.2	0.1	22	1 20.5	1 20.7	2.2	0.2
23	0 50.8	0 50.9	2.3	0.1	23	1 5.7	1 5.9	2.3	0.2	23	1 20.7	1 21.0	2.3	0.2
24	0 51.0	0 51.1	2.4	0.1	24	1 6.0	1 6.2	2.4	0.2	24	1 21.0	1 21.2	2.4	0.2
25	0 51.3	0 51.4	2.5	0.1	25	1 6.3	1 6.4	2.5	0.2	25	1 21.3	1 21.5	2.5	0.2
26	0 51.5	0 51.6	2.6	0.1	26	1 6.5	1 6.7	2.6	0.2	26	1 21.5	1 21.7	2.6	0.2
27	0 51.8	0 51.9	2.7	0.1	27	1 6.8	1 6.9	2.7	0.2	27	1 21.8	1 22.0	2.7	0.2
28	0 52.0	0 52.1	2.8	0.1	28	1 7.0	1 7.2	2.8	0.2	28	1 22.0	1 22.2	2.8	0.2
29	0 52.3	0 52.4	2.9	0.1	29	1 7.3	1 7.4	2.9	0.2	29	1 22.3	1 22.5	2.9	0.2
30	0 52.5	0 52.6	3.0	0.2	30	1 7.5	1 7.7	3.0	0.2	30	1 22.5	1 22.7	3.0	0.3
31	0 52.8	0 52.9	3.1	0.2	31	1 7.7	1 7.9	3.1	0.2	31	1 22.8	1 23.0	3.1	0.3
32	0 53.0	0 53.1	3.2	0.2	32	1 8.0	1 8.2	3.2	0.2	32	1 23.0	1 23.2	3.2	0.3
33	0 53.3	0 53.4	3.3	0.2	33	1 8.2	1 8.4	3.3	0.2	33	1 23.2	1 23.5	3.3	0.3
34	0 53.5	0 53.6	3.4	0.2	34	1 8.5	1 8.7	3.4	0.2	34	1 23.5	1 23.7	3.4	0.3
35	0 53.8	0 53.9	3.5	0.2	35	1 8.8	1 8.9	3.5	0.2	35	1 23.8	1 24.0	3.5	0.3
36	0 54.0	0 54.1	3.6	0.2	36	1 9.0	1 9.2	3.6	0.2	36	1 24.0	1 24.2	3.6	0.3
37	0 54.3	0 54.4	3.7	0.2	37	1 9.2	1 9.4	3.7	0.2	37	1 24.3	1 24.5	3.7	0.3
38	0 54.5	0 54.6	3.8	0.2	38	1 9.5	1 9.7	3.8	0.3	38	1 24.5	1 24.7	3.8	0.3
39	0 54.8	0 54.9	3.9	0.2	39	1 9.8	1 9.9	3.9	0.3	39	1 24.7	1 25.0	3.9	0.3
40	0 55.0	0 55.2	4.0	0.2	40	1 10.0	1 10.2	4.0	0.3	40	1 25.0	1 25.2	4.0	0.3
41	0 55.3	0 55.4	4.1	0.2	41	1 10.3	1 10.4	4.1	0.3	41	1 25.3	1 25.5	4.1	0.3
42	0 55.5	0 55.7	4.2	0.2	42	1 10.5	1 10.7	4.2	0.3	42	1 25.5	1 25.7	4.2	0.3
43	0 55.8	0 55.9	4.3	0.2	43	1 10.8	1 10.9	4.3	0.3	43	1 25.8	1 26.0	4.3	0.4
44	0 56.0	0 56.2	4.4	0.2	44	1 11.0	1 11.2	4.4	0.3	44	1 26.0	1 26.2	4.4	0.4
45	0 56.3	0 56.4	4.5	0.2	45	1 11.3	1 11.4	4.5	0.3	45	1 26.3	1 26.5	4.5	0.4
46	0 56.5	0 56.7	4.6	0.2	46	1 11.5	1 11.7	4.6	0.3	46	1 26.5	1 26.7	4.6	0.4
47	0 56.8	0 56.9	4.7	0.2	47	1 11.7	1 11.9	4.7	0.3	47	1 26.8	1 27.0	4.7	0.4
48	0 57.0	0 57.2	4.8	0.2	48	1 12.0	1 12.2	4.8	0.3	48	1 27.0	1 27.2	4.8	0.4
49	0 57.3	0 57.4	4.9	0.2	49	1 12.2	1 12.4	4.9	0.3	49	1 27.2	1 27.5	4.9	0.4
50	0 57.5	0 57.7	5.0	0.3	50	1 12.5	1 12.7	5.0	0.3	50	1 27.5	1 27.7	5.0	0.4
51	0 57.7	0 57.9	5.1	0.3	51	1 12.7	1 12.9	5.1	0.3	51	1 27.8	1 28.0	5.1	0.4
52	0 58.0	0 58.2	5.2	0.3	52	1 13.0	1 13.2	5.2	0.3	52	1 28.0	1 28.2	5.2	0.4
53	0 58.3	0 58.4	5.3	0.3	53	1 13.2	1 13.5	5.3	0.4	53	1 28.3	1 28.5	5.3	0.4
54	0 58.5	0 58.7	5.4	0.3	54	1 13.5	1 13.7	5.4	0.4	54	1 28.5	1 28.7	5.4	0.5
55	0 58.8	0 58.9	5.5	0.3	55	1 13.8	1 14.0	5.5	0.4	55	1 28.7	1 29.0	5.5	0.5
56	0 59.0	0 59.2	5.6	0.3	56	1 14.0	1 14.2	5.6	0.4	56	1 29.0	1 29.2	5.6	0.5
57	0 59.2	0 59.4	5.7	0.3	57	1 14.3	1 14.5	5.7	0.4	57	1 29.3	1 29.5	5.7	0.5
58	0 59.5	0 59.7	5.8	0.3	58	1 14.5	1 14.7	5.8	0.4	58	1 29.5	1 29.7	5.8	0.5
59	0 59.8	0 59.9	5.9	0.3	59	1 14.7	1 15.0	5.9	0.4	59	1 29.8	1 30.0	5.9	0.5
60	1 0.0	1 0.2	6.0	0.4	60	1 15.0	1 15.2	6.0	0.5	60	1 30.0	1 30.2	6.0	0.6

Tablas H. Incrementos y correcciones para los minutos.

6 ^m					7 ^m					8 ^m								
Sol	Aries	d	Corr.		Sol	Aries	d	Corr.		Sol	Aries	d	Corr.					
° /	° /	' /	' /	s	° /	° /	' /	' /	s	° /	° /	' /	' /	s	° /	° /	' /	' /
00	130.0	130.2	0.0	0.0	00	145.0	145.3	0.0	0.0	00	2.0	2.0	2.0	0.0	0.0			
01	130.3	130.5	0.1	0.0	01	145.3	145.5	0.1	0.0	01	2.0	2.0	2.0	0.1	0.0			
02	130.5	130.7	0.2	0.0	02	145.5	145.8	0.2	0.0	02	2.0	2.0	2.0	0.2	0.0			
03	130.7	131.0	0.3	0.0	03	145.8	146.0	0.3	0.0	03	2.0	2.0	2.0	0.3	0.0			
04	131.0	131.2	0.4	0.0	04	146.0	146.3	0.4	0.0	04	2.0	2.0	2.0	0.4	0.0			
05	131.2	131.5	0.5	0.1	05	146.2	146.5	0.5	0.1	05	2.0	2.0	2.0	0.5	0.1			
06	131.5	131.8	0.6	0.1	06	146.5	146.8	0.6	0.1	06	2.0	2.0	2.0	0.6	0.1			
07	131.8	132.0	0.7	0.1	07	146.8	147.0	0.7	0.1	07	2.0	2.0	2.0	0.7	0.1			
08	132.0	132.3	0.8	0.1	08	147.0	147.3	0.8	0.1	08	2.0	2.0	2.0	0.8	0.1			
09	132.2	132.5	0.9	0.1	09	147.3	147.5	0.9	0.1	09	2.0	2.0	2.0	0.9	0.1			
10	132.5	132.8	1.0	0.1	10	147.5	147.8	1.0	0.1	10	2.0	2.0	2.0	1.0	0.1			
11	132.8	133.0	1.1	0.1	11	147.7	148.0	1.1	0.1	11	2.0	2.0	2.0	1.1	0.1			
12	133.0	133.3	1.2	0.1	12	148.0	148.3	1.2	0.1	12	2.0	2.0	2.0	1.2	0.2			
13	133.3	133.5	1.3	0.1	13	148.3	148.5	1.3	0.2	13	2.0	2.0	2.0	1.3	0.2			
14	133.5	133.8	1.4	0.1	14	148.5	148.8	1.4	0.2	14	2.0	2.0	2.0	1.4	0.2			
15	133.8	134.0	1.5	0.2	15	148.8	149.0	1.5	0.2	15	2.0	2.0	2.0	1.5	0.2			
16	134.0	134.3	1.6	0.2	16	149.0	149.3	1.6	0.2	16	2.0	2.0	2.0	1.6	0.2			
17	134.3	134.5	1.7	0.2	17	149.3	149.5	1.7	0.2	17	2.0	2.0	2.0	1.7	0.2			
18	134.5	134.8	1.8	0.2	18	149.5	149.8	1.8	0.2	18	2.0	2.0	2.0	1.8	0.2			
19	134.8	135.0	1.9	0.2	19	149.8	150.1	1.9	0.2	19	2.0	2.0	2.0	1.9	0.3			
20	135.0	135.3	2.0	0.2	20	150.0	150.3	2.0	0.2	20	2.0	2.0	2.0	2.0	0.3			
21	135.2	135.5	2.1	0.2	21	150.2	150.6	2.1	0.2	21	2.0	2.0	2.0	2.1	0.3			
22	135.5	135.8	2.2	0.2	22	150.5	150.8	2.2	0.3	22	2.0	2.0	2.0	2.2	0.3			
23	135.8	136.0	2.3	0.2	23	150.8	151.1	2.3	0.3	23	2.0	2.0	2.0	2.3	0.3			
24	136.0	136.3	2.4	0.2	24	151.0	151.3	2.4	0.3	24	2.0	2.0	2.0	2.4	0.3			
25	136.2	136.5	2.5	0.3	25	151.3	151.6	2.5	0.3	25	2.0	2.0	2.0	2.5	0.3			
26	136.5	136.8	2.6	0.3	26	151.5	151.8	2.6	0.3	26	2.0	2.0	2.0	2.6	0.3			
27	136.8	137.0	2.7	0.3	27	151.7	152.1	2.7	0.3	27	2.0	2.0	2.0	2.7	0.4			
28	137.0	137.3	2.8	0.3	28	152.0	152.3	2.8	0.3	28	2.0	2.0	2.0	2.8	0.4			
29	137.3	137.5	2.9	0.3	29	152.3	152.6	2.9	0.3	29	2.0	2.0	2.0	2.9	0.4			
30	137.5	137.8	3.0	0.3	30	152.5	152.8	3.0	0.3	30	2.0	2.0	2.0	3.0	0.4			
31	137.8	138.0	3.1	0.3	31	152.7	153.1	3.1	0.4	31	2.0	2.0	2.0	3.1	0.4			
32	138.0	138.3	3.2	0.3	32	153.0	153.3	3.2	0.4	32	2.0	2.0	2.0	3.2	0.4			
33	138.3	138.5	3.3	0.3	33	153.3	153.6	3.3	0.4	33	2.0	2.0	2.0	3.3	0.4			
34	138.5	138.8	3.4	0.3	34	153.5	153.8	3.4	0.4	34	2.0	2.0	2.0	3.4	0.5			
35	138.7	139.0	3.5	0.4	35	153.7	154.1	3.5	0.4	35	2.0	2.0	2.0	3.5	0.5			
36	139.0	139.3	3.6	0.4	36	154.0	154.3	3.6	0.4	36	2.0	2.0	2.0	3.6	0.5			
37	139.3	139.5	3.7	0.4	37	154.2	154.6	3.7	0.4	37	2.0	2.0	2.0	3.7	0.5			
38	139.5	139.8	3.8	0.4	38	154.5	154.8	3.8	0.4	38	2.0	2.0	2.0	3.8	0.5			
39	139.8	140.0	3.9	0.4	39	154.8	155.1	3.9	0.5	39	2.0	2.0	2.0	3.9	0.5			
40	140.0	140.3	4.0	0.4	40	155.0	155.3	4.0	0.5	40	2.0	2.0	2.0	4.0	0.5			
41	140.2	140.5	4.1	0.4	41	155.3	155.6	4.1	0.5	41	2.0	2.0	2.0	4.1	0.5			
42	140.5	140.8	4.2	0.4	42	155.5	155.8	4.2	0.5	42	2.0	2.0	2.0	4.2	0.6			
43	140.8	141.0	4.3	0.4	43	155.8	156.1	4.3	0.5	43	2.0	2.0	2.0	4.3	0.6			
44	141.0	141.3	4.4	0.4	44	156.0	156.3	4.4	0.5	44	2.0	2.0	2.0	4.4	0.6			
45	141.3	141.5	4.5	0.5	45	156.3	156.6	4.5	0.5	45	2.0	2.0	2.0	4.5	0.6			
46	141.5	141.8	4.6	0.5	46	156.5	156.8	4.6	0.5	46	2.0	2.0	2.0	4.6	0.6			
47	141.8	142.0	4.7	0.5	47	156.7	157.1	4.7	0.5	47	2.0	2.0	2.0	4.7	0.6			
48	142.0	142.3	4.8	0.5	48	157.0	157.3	4.8	0.6	48	2.0	2.0	2.0	4.8	0.6			
49	142.3	142.5	4.9	0.5	49	157.3	157.6	4.9	0.6	49	2.0	2.0	2.0	4.9	0.7			
50	142.5	142.8	5.0	0.5	50	157.5	157.8	5.0	0.6	50	2.0	2.0	2.0	5.0	0.7			
51	142.7	143.0	5.1	0.5	51	157.7	158.1	5.1	0.6	51	2.0	2.0	2.0	5.1	0.7			
52	143.0	143.3	5.2	0.5	52	158.0	158.3	5.2	0.6	52	2.0	2.0	2.0	5.2	0.7			
53	143.3	143.5	5.3	0.5	53	158.2	158.6	5.3	0.6	53	2.0	2.0	2.0	5.3	0.7			
54	143.5	143.8	5.4	0.5	54	158.5	158.8	5.4	0.6	54	2.0	2.0	2.0	5.4	0.7			
55	143.8	144.0	5.5	0.6	55	158.8	159.1	5.5	0.6	55	2.0	2.0	2.0	5.5	0.7			
56	144.0	144.3	5.6	0.6	56	159.0	159.3	5.6	0.7	56	2.0	2.0	2.0	5.6	0.7			
57	144.3	144.5	5.7	0.6	57	159.3	159.6	5.7	0.7	57	2.0	2.0	2.0	5.7	0.8			
58	144.5	144.8	5.8	0.6	58	159.5	159.8	5.8	0.7	58	2.0	2.0	2.0	5.8	0.8			
59	144.8	145.0	5.9	0.6	59	159.8	2.0	5.9	0.7	59	2.0	2.0	2.0	5.9	0.8			
60	145.0	145.3	6.0	0.7	60	2.0	2.0	6.0	0.8	60	2.0	2.0	2.0	6.0	0.9			

Tablas H. Incrementos y correcciones para los minutos.

9 ^m					10 ^m					11 ^m				
Sol	Aries		d	Corr.	Sol	Aries	d	Corr.	Sol	Aries	d	Corr.		
s	° /	° /	/	/	s	° /	° /	/	/	s	° /	° /	/	/
00	2 15.0	2 15.4	0.0	0.0	00	2 30.0	2 30.4	0.0	0.0	00	2 45.0	2 45.5	0.0	0.0
01	2 15.3	2 15.6	0.1	0.0	01	2 30.3	2 30.7	0.1	0.0	01	2 45.3	2 45.7	0.1	0.0
02	2 15.5	2 15.9	0.2	0.0	02	2 30.5	2 30.9	0.2	0.0	02	2 45.5	2 46.0	0.2	0.0
03	2 15.8	2 16.1	0.3	0.0	03	2 30.8	2 31.2	0.3	0.0	03	2 45.8	2 46.2	0.3	0.1
04	2 16.0	2 16.4	0.4	0.1	04	2 31.0	2 31.4	0.4	0.1	04	2 46.0	2 46.5	0.4	0.1
05	2 16.2	2 16.6	0.5	0.1	05	2 31.3	2 31.7	0.5	0.1	05	2 46.3	2 46.7	0.5	0.1
06	2 16.5	2 16.9	0.6	0.1	06	2 31.5	2 31.9	0.6	0.1	06	2 46.5	2 47.0	0.6	0.1
07	2 16.8	2 17.1	0.7	0.1	07	2 31.7	2 32.2	0.7	0.1	07	2 46.8	2 47.2	0.7	0.1
08	2 17.0	2 17.4	0.8	0.1	08	2 32.0	2 32.4	0.8	0.1	08	2 47.0	2 47.5	0.8	0.1
09	2 17.3	2 17.6	0.9	0.1	09	2 32.3	2 32.7	0.9	0.1	09	2 47.2	2 47.7	0.9	0.2
10	2 17.5	2 17.9	1.0	0.1	10	2 32.5	2 32.9	1.0	0.2	10	2 47.5	2 48.0	1.0	0.2
11	2 17.8	2 18.1	1.1	0.2	11	2 32.8	2 33.2	1.1	0.2	11	2 47.8	2 48.2	1.1	0.2
12	2 18.0	2 18.4	1.2	0.2	12	2 33.0	2 33.4	1.2	0.2	12	2 48.0	2 48.5	1.2	0.2
13	2 18.3	2 18.6	1.3	0.2	13	2 33.3	2 33.7	1.3	0.2	13	2 48.3	2 48.7	1.3	0.2
14	2 18.5	2 18.9	1.4	0.2	14	2 33.5	2 33.9	1.4	0.2	14	2 48.5	2 49.0	1.4	0.3
15	2 18.8	2 19.1	1.5	0.2	15	2 33.8	2 34.2	1.5	0.3	15	2 48.8	2 49.2	1.5	0.3
16	2 19.0	2 19.4	1.6	0.2	16	2 34.0	2 34.4	1.6	0.3	16	2 49.0	2 49.5	1.6	0.3
17	2 19.3	2 19.6	1.7	0.3	17	2 34.3	2 34.7	1.7	0.3	17	2 49.3	2 49.7	1.7	0.3
18	2 19.5	2 19.9	1.8	0.3	18	2 34.5	2 34.9	1.8	0.3	18	2 49.5	2 50.0	1.8	0.3
19	2 19.7	2 20.1	1.9	0.3	19	2 34.8	2 35.2	1.9	0.3	19	2 49.8	2 50.2	1.9	0.3
20	2 20.0	2 20.4	2.0	0.3	20	2 35.0	2 35.4	2.0	0.3	20	2 50.0	2 50.5	2.0	0.4
21	2 20.2	2 20.6	2.1	0.3	21	2 35.2	2 35.7	2.1	0.3	21	2 50.3	2 50.7	2.1	0.4
22	2 20.5	2 20.9	2.2	0.3	22	2 35.5	2 35.9	2.2	0.4	22	2 50.5	2 51.0	2.2	0.4
23	2 20.7	2 21.1	2.3	0.3	23	2 35.7	2 36.2	2.3	0.4	23	2 50.7	2 51.2	2.3	0.4
24	2 21.0	2 21.4	2.4	0.4	24	2 36.0	2 36.4	2.4	0.4	24	2 51.0	2 51.5	2.4	0.4
25	2 21.2	2 21.6	2.5	0.4	25	2 36.2	2 36.7	2.5	0.4	25	2 51.2	2 51.7	2.5	0.5
26	2 21.5	2 21.9	2.6	0.4	26	2 36.5	2 36.9	2.6	0.4	26	2 51.5	2 52.0	2.6	0.5
27	2 21.7	2 22.1	2.7	0.4	27	2 36.7	2 37.2	2.7	0.5	27	2 51.7	2 52.2	2.7	0.5
28	2 22.0	2 22.4	2.8	0.4	28	2 37.0	2 37.4	2.8	0.5	28	2 52.0	2 52.5	2.8	0.5
29	2 22.3	2 22.6	2.9	0.4	29	2 37.3	2 37.7	2.9	0.5	29	2 52.2	2 52.7	2.9	0.5
30	2 22.5	2 22.9	3.0	0.4	30	2 37.5	2 37.9	3.0	0.5	30	2 52.5	2 53.0	3.0	0.5
31	2 22.8	2 23.1	3.1	0.5	31	2 37.8	2 38.2	3.1	0.5	31	2 52.8	2 53.2	3.1	0.6
32	2 23.0	2 23.4	3.2	0.5	32	2 38.0	2 38.4	3.2	0.5	32	2 53.0	2 53.5	3.2	0.6
33	2 23.3	2 23.6	3.3	0.5	33	2 38.3	2 38.7	3.3	0.5	33	2 53.3	2 53.7	3.3	0.6
34	2 23.5	2 23.9	3.4	0.5	34	2 38.5	2 38.9	3.4	0.6	34	2 53.5	2 54.0	3.4	0.6
35	2 23.7	2 24.1	3.5	0.5	35	2 38.8	2 39.2	3.5	0.6	35	2 53.8	2 54.2	3.5	0.6
36	2 24.0	2 24.4	3.6	0.5	36	2 39.0	2 39.4	3.6	0.6	36	2 54.0	2 54.5	3.6	0.7
37	2 24.2	2 24.6	3.7	0.6	37	2 39.2	2 39.7	3.7	0.6	37	2 54.3	2 54.7	3.7	0.7
38	2 24.5	2 24.9	3.8	0.6	38	2 39.5	2 39.9	3.8	0.6	38	2 54.5	2 55.0	3.8	0.7
39	2 24.8	2 25.1	3.9	0.6	39	2 39.7	2 40.2	3.9	0.6	39	2 54.7	2 55.2	3.9	0.7
40	2 25.0	2 25.4	4.0	0.6	40	2 40.0	2 40.4	4.0	0.7	40	2 55.0	2 55.5	4.0	0.7
41	2 25.3	2 25.6	4.1	0.6	41	2 40.3	2 40.7	4.1	0.7	41	2 55.3	2 55.7	4.1	0.8
42	2 25.5	2 25.9	4.2	0.6	42	2 40.5	2 40.9	4.2	0.7	42	2 55.5	2 56.0	4.2	0.8
43	2 25.8	2 26.1	4.3	0.6	43	2 40.8	2 41.2	4.3	0.7	43	2 55.8	2 56.2	4.3	0.8
44	2 26.0	2 26.4	4.4	0.7	44	2 41.0	2 41.4	4.4	0.7	44	2 56.0	2 56.5	4.4	0.8
45	2 26.3	2 26.7	4.5	0.7	45	2 41.3	2 41.7	4.5	0.8	45	2 56.3	2 56.7	4.5	0.8
46	2 26.5	2 26.9	4.6	0.7	46	2 41.5	2 41.9	4.6	0.8	46	2 56.5	2 57.0	4.6	0.8
47	2 26.8	2 27.2	4.7	0.7	47	2 41.8	2 42.2	4.7	0.8	47	2 56.8	2 57.2	4.7	0.9
48	2 27.0	2 27.4	4.8	0.7	48	2 42.0	2 42.4	4.8	0.8	48	2 57.0	2 57.5	4.8	0.9
49	2 27.3	2 27.7	4.9	0.7	49	2 42.3	2 42.7	4.9	0.8	49	2 57.3	2 57.7	4.9	0.9
50	2 27.5	2 27.9	5.0	0.8	50	2 42.5	2 42.9	5.0	0.8	50	2 57.5	2 58.0	5.0	0.9
51	2 27.7	2 28.2	5.1	0.8	51	2 42.8	2 43.2	5.1	0.8	51	2 57.8	2 58.2	5.1	0.9
52	2 28.0	2 28.4	5.2	0.8	52	2 43.0	2 43.4	5.2	0.9	52	2 58.0	2 58.5	5.2	1.0
53	2 28.2	2 28.7	5.3	0.8	53	2 43.2	2 43.7	5.3	0.9	53	2 58.3	2 58.7	5.3	1.0
54	2 28.5	2 28.9	5.4	0.8	54	2 43.5	2 43.9	5.4	0.9	54	2 58.5	2 59.0	5.4	1.0
55	2 28.7	2 29.2	5.5	0.8	55	2 43.7	2 44.2	5.5	0.9	55	2 58.7	2 59.2	5.5	1.0
56	2 29.0	2 29.4	5.6	0.8	56	2 44.0	2 44.4	5.6	0.9	56	2 59.0	2 59.5	5.6	1.0
57	2 29.2	2 29.7	5.7	0.9	57	2 44.2	2 44.7	5.7	0.9	57	2 59.2	2 59.7	5.7	1.0
58	2 29.5	2 29.9	5.8	0.9	58	2 44.5	2 45.0	5.8	1.0	58	2 59.5	3 00.0	5.8	1.1
59	2 29.8	2 30.2	5.9	0.9	59	2 44.7	2 45.2	5.9	1.0	59	2 59.7	3 00.2	5.9	1.1
60	2 30.0	2 30.4	6.0	1.0	60	2 45.0	2 45.5	6.0	1.1	60	3 0.0	3 00.5	6.0	1.2

Tablas H. Incrementos y correcciones para los minutos.

12 ^m					13 ^m					14 ^m				
Sol	Aries	d	Corr.		Sol	Aries	d	Corr.		Sol	Aries	d	Corr.	
s	° /	° /	' /	' /	s	° /	° /	' /	' /	s	° /	° /	' /	' /
00	3 0.0	3 0.5	0.0	0.0	00	3 15.0	3 15.5	0.0	0.0	00	3 30.0	3 30.6	0.0	0.0
01	3 0.2	3 0.7	0.1	0.0	01	3 15.2	3 15.8	0.1	0.0	01	3 30.2	3 30.8	0.1	0.0
02	3 0.5	3 1.0	0.2	0.0	02	3 15.5	3 16.0	0.2	0.0	02	3 30.5	3 31.1	0.2	0.0
03	3 0.8	3 1.2	0.3	0.1	03	3 15.8	3 16.3	0.3	0.1	03	3 30.7	3 31.3	0.3	0.1
04	3 1.0	3 1.5	0.4	0.1	04	3 16.0	3 16.5	0.4	0.1	04	3 31.0	3 31.6	0.4	0.1
05	3 1.3	3 1.7	0.5	0.1	05	3 16.3	3 16.8	0.5	0.1	05	3 31.3	3 31.8	0.5	0.1
06	3 1.5	3 2.0	0.6	0.1	06	3 16.5	3 17.0	0.6	0.1	06	3 31.5	3 32.1	0.6	0.1
07	3 1.8	3 2.2	0.7	0.1	07	3 16.8	3 17.3	0.7	0.2	07	3 31.8	3 32.3	0.7	0.2
08	3 2.0	3 2.5	0.8	0.2	08	3 17.0	3 17.5	0.8	0.2	08	3 32.0	3 32.6	0.8	0.2
09	3 2.3	3 2.7	0.9	0.2	09	3 17.3	3 17.8	0.9	0.2	09	3 32.3	3 32.8	0.9	0.2
10	3 2.5	3 3.0	1.0	0.2	10	3 17.5	3 18.0	1.0	0.2	10	3 32.5	3 33.1	1.0	0.2
11	3 2.8	3 3.3	1.1	0.2	11	3 17.8	3 18.3	1.1	0.2	11	3 32.8	3 33.3	1.1	0.3
12	3 3.0	3 3.5	1.2	0.2	12	3 18.0	3 18.5	1.2	0.3	12	3 33.0	3 33.6	1.2	0.3
13	3 3.3	3 3.8	1.3	0.3	13	3 18.3	3 18.8	1.3	0.3	13	3 33.3	3 33.8	1.3	0.3
14	3 3.5	3 4.0	1.4	0.3	14	3 18.5	3 19.0	1.4	0.3	14	3 33.5	3 34.1	1.4	0.3
15	3 3.8	3 4.3	1.5	0.3	15	3 18.8	3 19.3	1.5	0.3	15	3 33.8	3 34.3	1.5	0.3
16	3 4.0	3 4.5	1.6	0.3	16	3 19.0	3 19.5	1.6	0.3	16	3 34.0	3 34.6	1.6	0.4
17	3 4.2	3 4.8	1.7	0.3	17	3 19.3	3 19.8	1.7	0.4	17	3 34.3	3 34.8	1.7	0.4
18	3 4.5	3 5.0	1.8	0.4	18	3 19.5	3 20.0	1.8	0.4	18	3 34.5	3 35.1	1.8	0.4
19	3 4.7	3 5.3	1.9	0.4	19	3 19.7	3 20.3	1.9	0.4	19	3 34.8	3 35.3	1.9	0.4
20	3 5.0	3 5.5	2.0	0.4	20	3 20.0	3 20.5	2.0	0.4	20	3 35.0	3 35.6	2.0	0.5
21	3 5.2	3 5.8	2.1	0.4	21	3 20.2	3 20.8	2.1	0.5	21	3 35.2	3 35.8	2.1	0.5
22	3 5.5	3 6.0	2.2	0.4	22	3 20.5	3 21.0	2.2	0.5	22	3 35.5	3 36.1	2.2	0.5
23	3 5.8	3 6.3	2.3	0.5	23	3 20.7	3 21.3	2.3	0.5	23	3 35.7	3 36.3	2.3	0.5
24	3 6.0	3 6.5	2.4	0.5	24	3 21.0	3 21.6	2.4	0.5	24	3 36.0	3 36.6	2.4	0.6
25	3 6.2	3 6.8	2.5	0.5	25	3 21.3	3 21.8	2.5	0.5	25	3 36.3	3 36.8	2.5	0.6
26	3 6.5	3 7.0	2.6	0.5	26	3 21.5	3 22.1	2.6	0.6	26	3 36.5	3 37.1	2.6	0.6
27	3 6.7	3 7.3	2.7	0.5	27	3 21.7	3 22.3	2.7	0.6	27	3 36.8	3 37.3	2.7	0.6
28	3 7.0	3 7.5	2.8	0.6	28	3 22.0	3 22.6	2.8	0.6	28	3 37.0	3 37.6	2.8	0.7
29	3 7.2	3 7.8	2.9	0.6	29	3 22.2	3 22.8	2.9	0.6	29	3 37.2	3 37.8	2.9	0.7
30	3 7.5	3 8.0	3.0	0.6	30	3 22.5	3 23.1	3.0	0.7	30	3 37.5	3 38.1	3.0	0.7
31	3 7.7	3 8.3	3.1	0.6	31	3 22.7	3 23.3	3.1	0.7	31	3 37.7	3 38.3	3.1	0.7
32	3 8.0	3 8.5	3.2	0.6	32	3 23.0	3 23.6	3.2	0.7	32	3 38.0	3 38.6	3.2	0.7
33	3 8.3	3 8.8	3.3	0.7	33	3 23.3	3 23.8	3.3	0.7	33	3 38.2	3 38.8	3.3	0.8
34	3 8.5	3 9.0	3.4	0.7	34	3 23.5	3 24.1	3.4	0.7	34	3 38.5	3 39.1	3.4	0.8
35	3 8.8	3 9.3	3.5	0.7	35	3 23.8	3 24.3	3.5	0.8	35	3 38.8	3 39.3	3.5	0.8
36	3 9.0	3 9.5	3.6	0.7	36	3 24.0	3 24.6	3.6	0.8	36	3 39.0	3 39.6	3.6	0.8
37	3 9.3	3 9.8	3.7	0.7	37	3 24.3	3 24.8	3.7	0.8	37	3 39.3	3 39.9	3.7	0.9
38	3 9.5	3 10.0	3.8	0.8	38	3 24.5	3 25.1	3.8	0.8	38	3 39.5	3 40.1	3.8	0.9
39	3 9.8	3 10.3	3.9	0.8	39	3 24.8	3 25.3	3.9	0.8	39	3 39.8	3 40.4	3.9	0.9
40	3 10.0	3 10.5	4.0	0.8	40	3 25.0	3 25.6	4.0	0.9	40	3 40.0	3 40.6	4.0	0.9
41	3 10.2	3 10.8	4.1	0.8	41	3 25.3	3 25.8	4.1	0.9	41	3 40.3	3 40.9	4.1	1.0
42	3 10.5	3 11.0	4.2	0.8	42	3 25.5	3 26.1	4.2	0.9	42	3 40.5	3 41.1	4.2	1.0
43	3 10.8	3 11.3	4.3	0.9	43	3 25.7	3 26.3	4.3	0.9	43	3 40.8	3 41.4	4.3	1.0
44	3 11.0	3 11.5	4.4	0.9	44	3 26.0	3 26.6	4.4	1.0	44	3 41.0	3 41.6	4.4	1.0
45	3 11.3	3 11.8	4.5	0.9	45	3 26.3	3 26.8	4.5	1.0	45	3 41.3	3 41.9	4.5	1.1
46	3 11.5	3 12.0	4.6	0.9	46	3 26.5	3 27.1	4.6	1.0	46	3 41.5	3 42.1	4.6	1.1
47	3 11.7	3 12.3	4.7	0.9	47	3 26.8	3 27.3	4.7	1.0	47	3 41.8	3 42.4	4.7	1.1
48	3 12.0	3 12.5	4.8	1.0	48	3 27.0	3 27.6	4.8	1.0	48	3 42.0	3 42.6	4.8	1.1
49	3 12.2	3 12.8	4.9	1.0	49	3 27.2	3 27.8	4.9	1.1	49	3 42.3	3 42.9	4.9	1.1
50	3 12.5	3 13.0	5.0	1.0	50	3 27.5	3 28.1	5.0	1.1	50	3 42.5	3 43.1	5.0	1.2
51	3 12.7	3 13.3	5.1	1.0	51	3 27.7	3 28.3	5.1	1.1	51	3 42.7	3 43.4	5.1	1.2
52	3 13.0	3 13.5	5.2	1.0	52	3 28.0	3 28.6	5.2	1.1	52	3 43.0	3 43.6	5.2	1.2
53	3 13.3	3 13.8	5.3	1.1	53	3 28.2	3 28.8	5.3	1.1	53	3 43.2	3 43.9	5.3	1.2
54	3 13.5	3 14.0	5.4	1.1	54	3 28.5	3 29.1	5.4	1.2	54	3 43.5	3 44.1	5.4	1.3
55	3 13.8	3 14.3	5.5	1.1	55	3 28.8	3 29.3	5.5	1.2	55	3 43.8	3 44.4	5.5	1.3
56	3 14.0	3 14.5	5.6	1.1	56	3 29.0	3 29.6	5.6	1.2	56	3 44.0	3 44.6	5.6	1.3
57	3 14.2	3 14.8	5.7	1.1	57	3 29.3	3 29.8	5.7	1.2	57	3 44.3	3 44.9	5.7	1.3
58	3 14.5	3 15.0	5.8	1.2	58	3 29.5	3 30.1	5.8	1.3	58	3 44.5	3 45.1	5.8	1.4
59	3 14.7	3 15.3	5.9	1.2	59	3 29.7	3 30.3	5.9	1.3	59	3 44.8	3 45.4	5.9	1.4
60	3 15.0	3 15.5	6.0	1.3	60	3 30.0	3 30.6	6.0	1.4	60	3 45.0	3 45.6	6.0	1.5

Tablas H. Incrementos y correcciones para los minutos.

15 ^m					16 ^m					17 ^m				
Sol	Aries	d	Corr.		Sol	Aries	d	Corr.		Sol	Aries	d	Corr.	
s	o /	o /	/ /		s	o /	o /	/ /		s	o /	o /	/ /	
00	3 45.0	3 45.6	0.0	0.0	00	4 0.0	4 0.7	0.0	0.0	00	4 15.0	4 15.7	0.0	0.0
01	3 45.2	3 45.9	0.1	0.0	01	4 0.2	4 0.9	0.1	0.0	01	4 15.2	4 15.9	0.1	0.0
02	3 45.5	3 46.1	0.2	0.1	02	4 0.5	4 1.2	0.2	0.1	02	4 15.5	4 16.2	0.2	0.1
03	3 45.8	3 46.4	0.3	0.1	03	4 0.8	4 1.4	0.3	0.1	03	4 15.8	4 16.5	0.3	0.1
04	3 46.0	3 46.6	0.4	0.1	04	4 1.0	4 1.7	0.4	0.1	04	4 16.0	4 16.7	0.4	0.1
05	3 46.2	3 46.9	0.5	0.1	05	4 1.2	4 1.9	0.5	0.1	05	4 16.2	4 17.0	0.5	0.1
06	3 46.5	3 47.1	0.6	0.1	06	4 1.5	4 2.2	0.6	0.2	06	4 16.5	4 17.2	0.6	0.2
07	3 46.8	3 47.4	0.7	0.2	07	4 1.8	4 2.4	0.7	0.2	07	4 16.8	4 17.5	0.7	0.2
08	3 47.0	3 47.6	0.8	0.2	08	4 2.0	4 2.7	0.8	0.2	08	4 17.0	4 17.7	0.8	0.2
09	3 47.3	3 47.9	0.9	0.2	09	4 2.2	4 2.9	0.9	0.2	09	4 17.2	4 18.0	0.9	0.3
10	3 47.5	3 48.1	1.0	0.3	10	4 2.5	4 3.2	1.0	0.3	10	4 17.5	4 18.2	1.0	0.3
11	3 47.7	3 48.4	1.1	0.3	11	4 2.7	4 3.4	1.1	0.3	11	4 17.8	4 18.5	1.1	0.3
12	3 48.0	3 48.6	1.2	0.3	12	4 3.0	4 3.7	1.2	0.3	12	4 18.0	4 18.7	1.2	0.3
13	3 48.3	3 48.9	1.3	0.3	13	4 3.3	4 3.9	1.3	0.3	13	4 18.3	4 19.0	1.3	0.4
14	3 48.5	3 49.1	1.4	0.3	14	4 3.5	4 4.2	1.4	0.4	14	4 18.5	4 19.2	1.4	0.4
15	3 48.8	3 49.4	1.5	0.4	15	4 3.8	4 4.4	1.5	0.4	15	4 18.8	4 19.5	1.5	0.4
16	3 49.0	3 49.6	1.6	0.4	16	4 4.0	4 4.7	1.6	0.4	16	4 19.0	4 19.7	1.6	0.5
17	3 49.3	3 49.9	1.7	0.4	17	4 4.3	4 4.9	1.7	0.5	17	4 19.3	4 20.0	1.7	0.5
18	3 49.5	3 50.1	1.8	0.5	18	4 4.5	4 5.2	1.8	0.5	18	4 19.5	4 20.2	1.8	0.5
19	3 49.8	3 50.4	1.9	0.5	19	4 4.7	4 5.4	1.9	0.5	19	4 19.7	4 20.5	1.9	0.5
20	3 50.0	3 50.6	2.0	0.5	20	4 5.0	4 5.7	2.0	0.5	20	4 20.0	4 20.7	2.0	0.6
21	3 50.3	3 50.9	2.1	0.5	21	4 5.3	4 5.9	2.1	0.6	21	4 20.3	4 21.0	2.1	0.6
22	3 50.5	3 51.1	2.2	0.6	22	4 5.5	4 6.2	2.2	0.6	22	4 20.5	4 21.2	2.2	0.6
23	3 50.7	3 51.4	2.3	0.6	23	4 5.7	4 6.4	2.3	0.6	23	4 20.7	4 21.5	2.3	0.7
24	3 51.0	3 51.6	2.4	0.6	24	4 6.0	4 6.7	2.4	0.6	24	4 21.0	4 21.7	2.4	0.7
25	3 51.2	3 51.9	2.5	0.6	25	4 6.3	4 6.9	2.5	0.7	25	4 21.3	4 22.0	2.5	0.7
26	3 51.5	3 52.1	2.6	0.7	26	4 6.5	4 7.2	2.6	0.7	26	4 21.5	4 22.2	2.6	0.7
27	3 51.8	3 52.4	2.7	0.7	27	4 6.7	4 7.4	2.7	0.7	27	4 21.7	4 22.5	2.7	0.8
28	3 52.0	3 52.6	2.8	0.7	28	4 7.0	4 7.7	2.8	0.7	28	4 22.0	4 22.7	2.8	0.8
29	3 52.2	3 52.9	2.9	0.7	29	4 7.2	4 7.9	2.9	0.8	29	4 22.2	4 23.0	2.9	0.8
30	3 52.5	3 53.1	3.0	0.8	30	4 7.5	4 8.2	3.0	0.8	30	4 22.5	4 23.2	3.0	0.8
31	3 52.8	3 53.4	3.1	0.8	31	4 7.7	4 8.4	3.1	0.8	31	4 22.7	4 23.5	3.1	0.9
32	3 53.0	3 53.6	3.2	0.8	32	4 8.0	4 8.7	3.2	0.9	32	4 23.0	4 23.7	3.2	0.9
33	3 53.2	3 53.9	3.3	0.8	33	4 8.3	4 8.9	3.3	0.9	33	4 23.2	4 24.0	3.3	0.9
34	3 53.5	3 54.1	3.4	0.8	34	4 8.5	4 9.2	3.4	0.9	34	4 23.5	4 24.2	3.4	1.0
35	3 53.8	3 54.4	3.5	0.9	35	4 8.8	4 9.4	3.5	0.9	35	4 23.8	4 24.5	3.5	1.0
36	3 54.0	3 54.6	3.6	0.9	36	4 9.0	4 9.7	3.6	1.0	36	4 24.0	4 24.7	3.6	1.0
37	3 54.3	3 54.9	3.7	0.9	37	4 9.3	4 9.9	3.7	1.0	37	4 24.3	4 25.0	3.7	1.0
38	3 54.5	3 55.1	3.8	0.9	38	4 9.5	4 10.2	3.8	1.0	38	4 24.5	4 25.2	3.8	1.1
39	3 54.7	3 55.4	3.9	1.0	39	4 9.8	4 10.4	3.9	1.0	39	4 24.8	4 25.5	3.9	1.1
40	3 55.0	3 55.6	4.0	1.0	40	4 10.0	4 10.7	4.0	1.1	40	4 25.0	4 25.7	4.0	1.1
41	3 55.3	3 55.9	4.1	1.0	41	4 10.3	4 10.9	4.1	1.1	41	4 25.3	4 26.0	4.1	1.2
42	3 55.5	3 56.1	4.2	1.1	42	4 10.5	4 11.2	4.2	1.1	42	4 25.5	4 26.2	4.2	1.2
43	3 55.7	3 56.4	4.3	1.1	43	4 10.7	4 11.4	4.3	1.1	43	4 25.7	4 26.5	4.3	1.2
44	3 56.0	3 56.6	4.4	1.1	44	4 11.0	4 11.7	4.4	1.2	44	4 26.0	4 26.7	4.4	1.2
45	3 56.3	3 56.9	4.5	1.1	45	4 11.3	4 11.9	4.5	1.2	45	4 26.3	4 27.0	4.5	1.3
46	3 56.5	3 57.1	4.6	1.1	46	4 11.5	4 12.2	4.6	1.2	46	4 26.5	4 27.2	4.6	1.3
47	3 56.8	3 57.4	4.7	1.2	47	4 11.7	4 12.4	4.7	1.3	47	4 26.7	4 27.5	4.7	1.3
48	3 57.0	3 57.6	4.8	1.2	48	4 12.0	4 12.7	4.8	1.3	48	4 27.0	4 27.7	4.8	1.4
49	3 57.3	3 57.9	4.9	1.2	49	4 12.2	4 12.9	4.9	1.3	49	4 27.2	4 28.0	4.9	1.4
50	3 57.5	3 58.2	5.0	1.3	50	4 12.5	4 13.2	5.0	1.3	50	4 27.5	4 28.2	5.0	1.4
51	3 57.7	3 58.4	5.1	1.3	51	4 12.7	4 13.4	5.1	1.4	51	4 27.7	4 28.5	5.1	1.4
52	3 58.0	3 58.7	5.2	1.3	52	4 13.0	4 13.7	5.2	1.4	52	4 28.0	4 28.7	5.2	1.5
53	3 58.3	3 58.9	5.3	1.3	53	4 13.2	4 13.9	5.3	1.4	53	4 28.2	4 29.0	5.3	1.5
54	3 58.5	3 59.2	5.4	1.4	54	4 13.5	4 14.2	5.4	1.4	54	4 28.5	4 29.2	5.4	1.5
55	3 58.7	3 59.4	5.5	1.4	55	4 13.8	4 14.4	5.5	1.5	55	4 28.8	4 29.5	5.5	1.6
56	3 59.0	3 59.7	5.6	1.4	56	4 14.0	4 14.7	5.6	1.5	56	4 29.0	4 29.7	5.6	1.6
57	3 59.2	3 59.9	5.7	1.4	57	4 14.2	4 14.9	5.7	1.5	57	4 29.3	4 30.0	5.7	1.6
58	3 59.5	4 0.2	5.8	1.5	58	4 14.5	4 15.2	5.8	1.5	58	4 29.5	4 30.2	5.8	1.6
59	3 59.8	4 0.4	5.9	1.5	59	4 14.8	4 15.4	5.9	1.6	59	4 29.8	4 30.5	5.9	1.7
60	4 0.0	4 0.7	6.0	1.6	60	4 15.0	4 15.7	6.0	1.7	60	4 30.0	4 30.7	6.0	1.8

Tablas H. Incrementos y correcciones para los minutos.

18 ^m					19 ^m					20 ^m				
Sol	Aries	d	Corr.		Sol	Aries	d	Corr.		Sol	Aries	d	Corr.	
s	° /	° /	' /	' /	s	° /	° /	' /	' /	s	° /	° /	' /	' /
00	4 30.0	4 30.7	0.0	0.0	00	4 45.0	4 45.8	0.0	0.0	00	5 0.0	5 0.8	0.0	0.0
01	4 30.2	4 31.0	0.1	0.0	01	4 45.2	4 46.0	0.1	0.0	01	5 0.3	5 1.1	0.1	0.0
02	4 30.5	4 31.2	0.2	0.1	02	4 45.5	4 46.3	0.2	0.1	02	5 0.5	5 1.3	0.2	0.1
03	4 30.8	4 31.5	0.3	0.1	03	4 45.8	4 46.5	0.3	0.1	03	5 0.8	5 1.6	0.3	0.1
04	4 31.0	4 31.7	0.4	0.1	04	4 46.0	4 46.8	0.4	0.1	04	5 1.0	5 1.8	0.4	0.1
05	4 31.2	4 32.0	0.5	0.1	05	4 46.2	4 47.0	0.5	0.2	05	5 1.2	5 2.1	0.5	0.2
06	4 31.5	4 32.2	0.6	0.2	06	4 46.5	4 47.3	0.6	0.2	06	5 1.5	5 2.3	0.6	0.2
07	4 31.8	4 32.5	0.7	0.2	07	4 46.8	4 47.5	0.7	0.2	07	5 1.8	5 2.6	0.7	0.2
08	4 32.0	4 32.7	0.8	0.2	08	4 47.0	4 47.8	0.8	0.3	08	5 2.0	5 2.8	0.8	0.3
09	4 32.2	4 33.0	0.9	0.3	09	4 47.2	4 48.0	0.9	0.3	09	5 2.2	5 3.1	0.9	0.3
10	4 32.5	4 33.2	1.0	0.3	10	4 47.5	4 48.3	1.0	0.3	10	5 2.5	5 3.3	1.0	0.3
11	4 32.8	4 33.5	1.1	0.3	11	4 47.8	4 48.5	1.1	0.3	11	5 2.8	5 3.6	1.1	0.4
12	4 33.0	4 33.7	1.2	0.4	12	4 48.0	4 48.8	1.2	0.4	12	5 3.0	5 3.8	1.2	0.4
13	4 33.2	4 34.0	1.3	0.4	13	4 48.2	4 49.0	1.3	0.4	13	5 3.2	5 4.1	1.3	0.4
14	4 33.5	4 34.2	1.4	0.4	14	4 48.5	4 49.3	1.4	0.4	14	5 3.5	5 4.3	1.4	0.5
15	4 33.8	4 34.5	1.5	0.4	15	4 48.8	4 49.5	1.5	0.5	15	5 3.8	5 4.6	1.5	0.5
16	4 34.0	4 34.8	1.6	0.5	16	4 49.0	4 49.8	1.6	0.5	16	5 4.0	5 4.8	1.6	0.5
17	4 34.3	4 35.0	1.7	0.5	17	4 49.3	4 50.0	1.7	0.5	17	5 4.2	5 5.1	1.7	0.6
18	4 34.5	4 35.3	1.8	0.5	18	4 49.5	4 50.3	1.8	0.6	18	5 4.5	5 5.3	1.8	0.6
19	4 34.8	4 35.5	1.9	0.6	19	4 49.8	4 50.5	1.9	0.6	19	5 4.7	5 5.6	1.9	0.6
20	4 35.0	4 35.8	2.0	0.6	20	4 50.0	4 50.8	2.0	0.6	20	5 5.0	5 5.8	2.0	0.7
21	4 35.3	4 36.0	2.1	0.6	21	4 50.3	4 51.0	2.1	0.7	21	5 5.3	5 6.1	2.1	0.7
22	4 35.5	4 36.3	2.2	0.7	22	4 50.5	4 51.3	2.2	0.7	22	5 5.5	5 6.3	2.2	0.7
23	4 35.7	4 36.5	2.3	0.7	23	4 50.7	4 51.5	2.3	0.7	23	5 5.7	5 6.6	2.3	0.8
24	4 36.0	4 36.8	2.4	0.7	24	4 51.0	4 51.8	2.4	0.8	24	5 6.0	5 6.8	2.4	0.8
25	4 36.3	4 37.0	2.5	0.8	25	4 51.3	4 52.0	2.5	0.8	25	5 6.3	5 7.1	2.5	0.8
26	4 36.5	4 37.3	2.6	0.8	26	4 51.5	4 52.3	2.6	0.8	26	5 6.5	5 7.3	2.6	0.9
27	4 36.7	4 37.5	2.7	0.8	27	4 51.7	4 52.5	2.7	0.9	27	5 6.7	5 7.6	2.7	0.9
28	4 37.0	4 37.8	2.8	0.8	28	4 52.0	4 52.8	2.8	0.9	28	5 7.0	5 7.8	2.8	0.9
29	4 37.3	4 38.0	2.9	0.9	29	4 52.3	4 53.1	2.9	0.9	29	5 7.3	5 8.1	2.9	1.0
30	4 37.5	4 38.3	3.0	0.9	30	4 52.5	4 53.3	3.0	0.9	30	5 7.5	5 8.3	3.0	1.0
31	4 37.7	4 38.5	3.1	0.9	31	4 52.7	4 53.6	3.1	1.0	31	5 7.7	5 8.6	3.1	1.0
32	4 38.0	4 38.8	3.2	1.0	32	4 53.0	4 53.8	3.2	1.0	32	5 8.0	5 8.8	3.2	1.1
33	4 38.2	4 39.0	3.3	1.0	33	4 53.2	4 54.1	3.3	1.0	33	5 8.3	5 9.1	3.3	1.1
34	4 38.5	4 39.3	3.4	1.0	34	4 53.5	4 54.3	3.4	1.1	34	5 8.5	5 9.3	3.4	1.1
35	4 38.8	4 39.5	3.5	1.1	35	4 53.7	4 54.6	3.5	1.1	35	5 8.7	5 9.6	3.5	1.2
36	4 39.0	4 39.8	3.6	1.1	36	4 54.0	4 54.8	3.6	1.1	36	5 9.0	5 9.8	3.6	1.2
37	4 39.3	4 40.0	3.7	1.1	37	4 54.3	4 55.1	3.7	1.2	37	5 9.3	5 10.1	3.7	1.2
38	4 39.5	4 40.3	3.8	1.1	38	4 54.5	4 55.3	3.8	1.2	38	5 9.5	5 10.3	3.8	1.3
39	4 39.8	4 40.5	3.9	1.2	39	4 54.8	4 55.6	3.9	1.2	39	5 9.8	5 10.6	3.9	1.3
40	4 40.0	4 40.8	4.0	1.2	40	4 55.0	4 55.8	4.0	1.3	40	5 10.0	5 10.8	4.0	1.3
41	4 40.3	4 41.0	4.1	1.2	41	4 55.3	4 56.1	4.1	1.3	41	5 10.3	5 11.1	4.1	1.4
42	4 40.5	4 41.3	4.2	1.3	42	4 55.5	4 56.3	4.2	1.3	42	5 10.5	5 11.4	4.2	1.4
43	4 40.8	4 41.5	4.3	1.3	43	4 55.8	4 56.6	4.3	1.4	43	5 10.8	5 11.6	4.3	1.4
44	4 41.0	4 41.8	4.4	1.3	44	4 56.0	4 56.8	4.4	1.4	44	5 11.0	5 11.9	4.4	1.5
45	4 41.3	4 42.0	4.5	1.3	45	4 56.3	4 57.1	4.5	1.4	45	5 11.3	5 12.1	4.5	1.5
46	4 41.5	4 42.3	4.6	1.4	46	4 56.5	4 57.3	4.6	1.5	46	5 11.5	5 12.4	4.6	1.5
47	4 41.7	4 42.5	4.7	1.4	47	4 56.8	4 57.6	4.7	1.5	47	5 11.8	5 12.6	4.7	1.6
48	4 42.0	4 42.8	4.8	1.4	48	4 57.0	4 57.8	4.8	1.5	48	5 12.0	5 12.9	4.8	1.6
49	4 42.3	4 43.0	4.9	1.5	49	4 57.3	4 58.1	4.9	1.6	49	5 12.2	5 13.1	4.9	1.6
50	4 42.5	4 43.3	5.0	1.5	50	4 57.5	4 58.3	5.0	1.6	50	5 12.5	5 13.4	5.0	1.7
51	4 42.7	4 43.5	5.1	1.5	51	4 57.7	4 58.6	5.1	1.6	51	5 12.7	5 13.6	5.1	1.7
52	4 43.0	4 43.8	5.2	1.6	52	4 58.0	4 58.8	5.2	1.6	52	5 13.0	5 13.9	5.2	1.7
53	4 43.2	4 44.0	5.3	1.6	53	4 58.2	4 59.1	5.3	1.7	53	5 13.2	5 14.1	5.3	1.8
54	4 43.5	4 44.3	5.4	1.6	54	4 58.5	4 59.3	5.4	1.7	54	5 13.5	5 14.4	5.4	1.8
55	4 43.7	4 44.5	5.5	1.6	55	4 58.7	4 59.6	5.5	1.7	55	5 13.7	5 14.6	5.5	1.8
56	4 44.0	4 44.8	5.6	1.7	56	4 59.0	4 59.8	5.6	1.8	56	5 14.0	5 14.9	5.6	1.9
57	4 44.3	4 45.0	5.7	1.7	57	4 59.3	5 0.1	5.7	1.8	57	5 14.2	5 15.1	5.7	1.9
58	4 44.5	4 45.3	5.8	1.7	58	4 59.5	5 0.3	5.8	1.8	58	5 14.5	5 15.4	5.8	1.9
59	4 44.8	4 45.5	5.9	1.8	59	4 59.8	5 0.6	5.9	1.9	59	5 14.8	5 15.6	5.9	2.0
60	4 45.0	4 45.8	6.0	1.9	60	5 0.0	5 0.8	6.0	2.0	60	5 15.0	5 15.9	6.0	2.1

Tablas H. Incrementos y correcciones para los minutos.

21 ^m					22 ^m					23 ^m				
Sol	Aries	d	Corr.		Sol	Aries	d	Corr.		Sol	Aries	d	Corr.	
s	° /	° /	' /	' /	s	° /	° /	' /	' /	s	° /	° /	' /	' /
00	5 15.0	5 15.9	0.0	0.0	00	5 30.0	5 30.9	0.0	0.0	00	5 45.0	5 45.9	0.0	0.0
01	5 15.3	5 16.1	0.1	0.0	01	5 30.3	5 31.2	0.1	0.0	01	5 45.2	5 46.2	0.1	0.0
02	5 15.5	5 16.4	0.2	0.1	02	5 30.5	5 31.4	0.2	0.1	02	5 45.5	5 46.4	0.2	0.1
03	5 15.8	5 16.6	0.3	0.1	03	5 30.8	5 31.7	0.3	0.1	03	5 45.8	5 46.7	0.3	0.1
04	5 16.0	5 16.9	0.4	0.1	04	5 31.0	5 31.9	0.4	0.1	04	5 46.0	5 46.9	0.4	0.2
05	5 16.2	5 17.1	0.5	0.2	05	5 31.3	5 32.2	0.5	0.2	05	5 46.3	5 47.2	0.5	0.2
06	5 16.5	5 17.4	0.6	0.2	06	5 31.5	5 32.4	0.6	0.2	06	5 46.5	5 47.4	0.6	0.2
07	5 16.8	5 17.6	0.7	0.2	07	5 31.8	5 32.7	0.7	0.3	07	5 46.8	5 47.7	0.7	0.3
08	5 17.0	5 17.9	0.8	0.3	08	5 32.0	5 32.9	0.8	0.3	08	5 47.0	5 48.0	0.8	0.3
09	5 17.2	5 18.1	0.9	0.3	09	5 32.2	5 33.2	0.9	0.3	09	5 47.2	5 48.2	0.9	0.3
10	5 17.5	5 18.4	1.0	0.3	10	5 32.5	5 33.4	1.0	0.4	10	5 47.5	5 48.5	1.0	0.4
11	5 17.8	5 18.6	1.1	0.4	11	5 32.8	5 33.7	1.1	0.4	11	5 47.8	5 48.7	1.1	0.4
12	5 18.0	5 18.9	1.2	0.4	12	5 33.0	5 33.9	1.2	0.4	12	5 48.0	5 49.0	1.2	0.5
13	5 18.2	5 19.1	1.3	0.5	13	5 33.2	5 34.2	1.3	0.5	13	5 48.2	5 49.2	1.3	0.5
14	5 18.5	5 19.4	1.4	0.5	14	5 33.5	5 34.4	1.4	0.5	14	5 48.5	5 49.5	1.4	0.5
15	5 18.8	5 19.6	1.5	0.5	15	5 33.8	5 34.7	1.5	0.5	15	5 48.8	5 49.7	1.5	0.6
16	5 19.0	5 19.9	1.6	0.6	16	5 34.0	5 34.9	1.6	0.6	16	5 49.0	5 50.0	1.6	0.6
17	5 19.2	5 20.1	1.7	0.6	17	5 34.2	5 35.2	1.7	0.6	17	5 49.2	5 50.2	1.7	0.7
18	5 19.5	5 20.4	1.8	0.6	18	5 34.5	5 35.4	1.8	0.7	18	5 49.5	5 50.5	1.8	0.7
19	5 19.8	5 20.6	1.9	0.7	19	5 34.8	5 35.7	1.9	0.7	19	5 49.8	5 50.7	1.9	0.7
20	5 20.0	5 20.9	2.0	0.7	20	5 35.0	5 35.9	2.0	0.7	20	5 50.0	5 51.0	2.0	0.8
21	5 20.3	5 21.1	2.1	0.7	21	5 35.3	5 36.2	2.1	0.8	21	5 50.3	5 51.2	2.1	0.8
22	5 20.5	5 21.4	2.2	0.8	22	5 35.5	5 36.4	2.2	0.8	22	5 50.5	5 51.5	2.2	0.8
23	5 20.7	5 21.6	2.3	0.8	23	5 35.7	5 36.7	2.3	0.8	23	5 50.8	5 51.7	2.3	0.9
24	5 21.0	5 21.9	2.4	0.8	24	5 36.0	5 36.9	2.4	0.9	24	5 51.0	5 52.0	2.4	0.9
25	5 21.3	5 22.1	2.5	0.9	25	5 36.3	5 37.2	2.5	0.9	25	5 51.3	5 52.2	2.5	1.0
26	5 21.5	5 22.4	2.6	0.9	26	5 36.5	5 37.4	2.6	1.0	26	5 51.5	5 52.5	2.6	1.0
27	5 21.7	5 22.6	2.7	0.9	27	5 36.7	5 37.7	2.7	1.0	27	5 51.7	5 52.7	2.7	1.0
28	5 22.0	5 22.9	2.8	1.0	28	5 37.0	5 37.9	2.8	1.0	28	5 52.0	5 53.0	2.8	1.1
29	5 22.3	5 23.1	2.9	1.0	29	5 37.3	5 38.2	2.9	1.1	29	5 52.3	5 53.2	2.9	1.1
30	5 22.5	5 23.4	3.0	1.0	30	5 37.5	5 38.4	3.0	1.1	30	5 52.5	5 53.5	3.0	1.2
31	5 22.7	5 23.6	3.1	1.1	31	5 37.7	5 38.7	3.1	1.1	31	5 52.7	5 53.7	3.1	1.2
32	5 23.0	5 23.9	3.2	1.1	32	5 38.0	5 38.9	3.2	1.2	32	5 53.0	5 54.0	3.2	1.2
33	5 23.3	5 24.1	3.3	1.2	33	5 38.3	5 39.2	3.3	1.2	33	5 53.3	5 54.2	3.3	1.3
34	5 23.5	5 24.4	3.4	1.2	34	5 38.5	5 39.4	3.4	1.2	34	5 53.5	5 54.5	3.4	1.3
35	5 23.7	5 24.6	3.5	1.2	35	5 38.7	5 39.7	3.5	1.3	35	5 53.7	5 54.7	3.5	1.3
36	5 24.0	5 24.9	3.6	1.3	36	5 39.0	5 39.9	3.6	1.3	36	5 54.0	5 55.0	3.6	1.4
37	5 24.2	5 25.1	3.7	1.3	37	5 39.3	5 40.2	3.7	1.4	37	5 54.3	5 55.2	3.7	1.4
38	5 24.5	5 25.4	3.8	1.3	38	5 39.5	5 40.4	3.8	1.4	38	5 54.5	5 55.5	3.8	1.5
39	5 24.7	5 25.6	3.9	1.4	39	5 39.7	5 40.7	3.9	1.4	39	5 54.7	5 55.7	3.9	1.5
40	5 25.0	5 25.9	4.0	1.4	40	5 40.0	5 40.9	4.0	1.5	40	5 55.0	5 56.0	4.0	1.5
41	5 25.3	5 26.1	4.1	1.4	41	5 40.3	5 41.2	4.1	1.5	41	5 55.2	5 56.2	4.1	1.6
42	5 25.5	5 26.4	4.2	1.5	42	5 40.5	5 41.4	4.2	1.5	42	5 55.5	5 56.5	4.2	1.6
43	5 25.8	5 26.6	4.3	1.5	43	5 40.8	5 41.7	4.3	1.6	43	5 55.8	5 56.7	4.3	1.6
44	5 26.0	5 26.9	4.4	1.5	44	5 41.0	5 41.9	4.4	1.6	44	5 56.0	5 57.0	4.4	1.7
45	5 26.3	5 27.1	4.5	1.6	45	5 41.3	5 42.2	4.5	1.6	45	5 56.3	5 57.2	4.5	1.7
46	5 26.5	5 27.4	4.6	1.6	46	5 41.5	5 42.4	4.6	1.7	46	5 56.5	5 57.5	4.6	1.8
47	5 26.8	5 27.6	4.7	1.6	47	5 41.8	5 42.7	4.7	1.7	47	5 56.8	5 57.7	4.7	1.8
48	5 27.0	5 27.9	4.8	1.7	48	5 42.0	5 42.9	4.8	1.8	48	5 57.0	5 58.0	4.8	1.8
49	5 27.2	5 28.1	4.9	1.7	49	5 42.3	5 43.2	4.9	1.8	49	5 57.3	5 58.2	4.9	1.9
50	5 27.5	5 28.4	5.0	1.8	50	5 42.5	5 43.4	5.0	1.8	50	5 57.5	5 58.5	5.0	1.9
51	5 27.8	5 28.6	5.1	1.8	51	5 42.8	5 43.7	5.1	1.9	51	5 57.8	5 58.7	5.1	2.0
52	5 28.0	5 28.9	5.2	1.8	52	5 43.0	5 43.9	5.2	1.9	52	5 58.0	5 59.0	5.2	2.0
53	5 28.2	5 29.1	5.3	1.9	53	5 43.2	5 44.2	5.3	1.9	53	5 58.2	5 59.2	5.3	2.0
54	5 28.5	5 29.4	5.4	1.9	54	5 43.5	5 44.4	5.4	2.0	54	5 58.5	5 59.5	5.4	2.1
55	5 28.7	5 29.7	5.5	1.9	55	5 43.7	5 44.7	5.5	2.0	55	5 58.8	5 59.7	5.5	2.1
56	5 29.0	5 29.9	5.6	2.0	56	5 44.0	5 44.9	5.6	2.1	56	5 59.0	6 00.0	5.6	2.1
57	5 29.2	5 30.2	5.7	2.0	57	5 44.2	5 45.2	5.7	2.1	57	5 59.2	6 00.2	5.7	2.2
58	5 29.5	5 30.4	5.8	2.0	58	5 44.5	5 45.4	5.8	2.1	58	5 59.5	6 00.5	5.8	2.2
59	5 29.8	5 30.7	5.9	2.1	59	5 44.7	5 45.7	5.9	2.2	59	5 59.7	6 00.7	5.9	2.3
60	5 30.0	5 30.9	6.0	2.2	60	5 45.0	5 45.9	6.0	2.3	60	6 00.0	6 01.0	6.0	2.4

Tablas H. Incrementos y correcciones para los minutos.

24 ^m					25 ^m					26 ^m				
Sol	Aries	d	Corr.		Sol	Aries	d	Corr.		Sol	Aries	d	Corr.	
s	° /	° /	' /	' /	s	° /	° /	' /	' /	s	° /	° /	' /	' /
00	6 0.0	6 1.0	0.0	0.0	00	6 15.0	6 16.0	0.0	0.0	00	6 30.0	6 31.1	0.0	0.0
01	6 0.2	6 1.2	0.1	0.0	01	6 15.2	6 16.3	0.1	0.0	01	6 30.2	6 31.3	0.1	0.0
02	6 0.5	6 1.5	0.2	0.1	02	6 15.5	6 16.5	0.2	0.1	02	6 30.5	6 31.6	0.2	0.1
03	6 0.8	6 1.7	0.3	0.1	03	6 15.7	6 16.8	0.3	0.1	03	6 30.7	6 31.8	0.3	0.1
04	6 1.0	6 2.0	0.4	0.2	04	6 16.0	6 17.0	0.4	0.2	04	6 31.0	6 32.1	0.4	0.2
05	6 1.3	6 2.2	0.5	0.2	05	6 16.3	6 17.3	0.5	0.2	05	6 31.3	6 32.3	0.5	0.2
06	6 1.5	6 2.5	0.6	0.2	06	6 16.5	6 17.5	0.6	0.3	06	6 31.5	6 32.6	0.6	0.3
07	6 1.8	6 2.7	0.7	0.3	07	6 16.8	6 17.8	0.7	0.3	07	6 31.8	6 32.8	0.7	0.3
08	6 2.0	6 3.0	0.8	0.3	08	6 17.0	6 18.0	0.8	0.3	08	6 32.0	6 33.1	0.8	0.3
09	6 2.3	6 3.2	0.9	0.4	09	6 17.3	6 18.3	0.9	0.4	09	6 32.3	6 33.3	0.9	0.4
10	6 2.5	6 3.5	1.0	0.4	10	6 17.5	6 18.5	1.0	0.4	10	6 32.5	6 33.6	1.0	0.4
11	6 2.8	6 3.7	1.1	0.4	11	6 17.8	6 18.8	1.1	0.5	11	6 32.8	6 33.8	1.1	0.5
12	6 3.0	6 4.0	1.2	0.5	12	6 18.0	6 19.0	1.2	0.5	12	6 33.0	6 34.1	1.2	0.5
13	6 3.2	6 4.2	1.3	0.5	13	6 18.2	6 19.3	1.3	0.5	13	6 33.3	6 34.3	1.3	0.6
14	6 3.5	6 4.5	1.4	0.6	14	6 18.5	6 19.5	1.4	0.6	14	6 33.5	6 34.6	1.4	0.6
15	6 3.8	6 4.7	1.5	0.6	15	6 18.8	6 19.8	1.5	0.6	15	6 33.8	6 34.8	1.5	0.7
16	6 4.0	6 5.0	1.6	0.6	16	6 19.0	6 20.0	1.6	0.7	16	6 34.0	6 35.1	1.6	0.7
17	6 4.2	6 5.2	1.7	0.7	17	6 19.2	6 20.3	1.7	0.7	17	6 34.2	6 35.3	1.7	0.7
18	6 4.5	6 5.5	1.8	0.7	18	6 19.5	6 20.5	1.8	0.8	18	6 34.5	6 35.6	1.8	0.8
19	6 4.7	6 5.7	1.9	0.8	19	6 19.7	6 20.8	1.9	0.8	19	6 34.8	6 35.8	1.9	0.8
20	6 5.0	6 6.0	2.0	0.8	20	6 20.0	6 21.0	2.0	0.8	20	6 35.0	6 36.1	2.0	0.9
21	6 5.2	6 6.3	2.1	0.8	21	6 20.2	6 21.3	2.1	0.9	21	6 35.2	6 36.3	2.1	0.9
22	6 5.5	6 6.5	2.2	0.9	22	6 20.5	6 21.5	2.2	0.9	22	6 35.5	6 36.6	2.2	1.0
23	6 5.7	6 6.8	2.3	0.9	23	6 20.7	6 21.8	2.3	1.0	23	6 35.7	6 36.8	2.3	1.0
24	6 6.0	6 7.0	2.4	1.0	24	6 21.0	6 22.0	2.4	1.0	24	6 36.0	6 37.1	2.4	1.0
25	6 6.3	6 7.3	2.5	1.0	25	6 21.3	6 22.3	2.5	1.0	25	6 36.2	6 37.3	2.5	1.1
26	6 6.5	6 7.5	2.6	1.0	26	6 21.5	6 22.5	2.6	1.1	26	6 36.5	6 37.6	2.6	1.1
27	6 6.7	6 7.8	2.7	1.1	27	6 21.8	6 22.8	2.7	1.1	27	6 36.8	6 37.8	2.7	1.2
28	6 7.0	6 8.0	2.8	1.1	28	6 22.0	6 23.0	2.8	1.2	28	6 37.0	6 38.1	2.8	1.2
29	6 7.3	6 8.3	2.9	1.2	29	6 22.3	6 23.3	2.9	1.2	29	6 37.3	6 38.3	2.9	1.3
30	6 7.5	6 8.5	3.0	1.2	30	6 22.5	6 23.5	3.0	1.3	30	6 37.5	6 38.6	3.0	1.3
31	6 7.7	6 8.8	3.1	1.2	31	6 22.7	6 23.8	3.1	1.3	31	6 37.7	6 38.8	3.1	1.3
32	6 8.0	6 9.0	3.2	1.3	32	6 23.0	6 24.0	3.2	1.3	32	6 38.0	6 39.1	3.2	1.4
33	6 8.3	6 9.3	3.3	1.3	33	6 23.3	6 24.3	3.3	1.4	33	6 38.3	6 39.3	3.3	1.4
34	6 8.5	6 9.5	3.4	1.4	34	6 23.5	6 24.6	3.4	1.4	34	6 38.5	6 39.6	3.4	1.5
35	6 8.7	6 9.8	3.5	1.4	35	6 23.7	6 24.8	3.5	1.5	35	6 38.7	6 39.8	3.5	1.5
36	6 9.0	6 10.0	3.6	1.4	36	6 24.0	6 25.1	3.6	1.5	36	6 39.0	6 40.1	3.6	1.6
37	6 9.3	6 10.3	3.7	1.5	37	6 24.3	6 25.3	3.7	1.5	37	6 39.3	6 40.3	3.7	1.6
38	6 9.5	6 10.5	3.8	1.5	38	6 24.5	6 25.6	3.8	1.6	38	6 39.5	6 40.6	3.8	1.6
39	6 9.7	6 10.8	3.9	1.6	39	6 24.7	6 25.8	3.9	1.6	39	6 39.7	6 40.8	3.9	1.7
40	6 10.0	6 11.0	4.0	1.6	40	6 25.0	6 26.1	4.0	1.7	40	6 40.0	6 41.1	4.0	1.7
41	6 10.3	6 11.3	4.1	1.6	41	6 25.3	6 26.3	4.1	1.7	41	6 40.3	6 41.3	4.1	1.8
42	6 10.5	6 11.5	4.2	1.7	42	6 25.5	6 26.6	4.2	1.8	42	6 40.5	6 41.6	4.2	1.8
43	6 10.8	6 11.8	4.3	1.7	43	6 25.7	6 26.8	4.3	1.8	43	6 40.7	6 41.8	4.3	1.9
44	6 11.0	6 12.0	4.4	1.8	44	6 26.0	6 27.1	4.4	1.8	44	6 41.0	6 42.1	4.4	1.9
45	6 11.3	6 12.3	4.5	1.8	45	6 26.3	6 27.3	4.5	1.9	45	6 41.3	6 42.3	4.5	2.0
46	6 11.5	6 12.5	4.6	1.8	46	6 26.5	6 27.6	4.6	1.9	46	6 41.5	6 42.6	4.6	2.0
47	6 11.8	6 12.8	4.7	1.9	47	6 26.8	6 27.8	4.7	2.0	47	6 41.8	6 42.9	4.7	2.0
48	6 12.0	6 13.0	4.8	1.9	48	6 27.0	6 28.1	4.8	2.0	48	6 42.0	6 43.1	4.8	2.1
49	6 12.2	6 13.3	4.9	2.0	49	6 27.2	6 28.3	4.9	2.0	49	6 42.3	6 43.4	4.9	2.1
50	6 12.5	6 13.5	5.0	2.0	50	6 27.5	6 28.6	5.0	2.1	50	6 42.5	6 43.6	5.0	2.2
51	6 12.8	6 13.8	5.1	2.0	51	6 27.8	6 28.8	5.1	2.1	51	6 42.8	6 43.9	5.1	2.2
52	6 13.0	6 14.0	5.2	2.1	52	6 28.0	6 29.1	5.2	2.2	52	6 43.0	6 44.1	5.2	2.3
53	6 13.2	6 14.3	5.3	2.1	53	6 28.2	6 29.3	5.3	2.2	53	6 43.2	6 44.4	5.3	2.3
54	6 13.5	6 14.5	5.4	2.2	54	6 28.5	6 29.6	5.4	2.3	54	6 43.5	6 44.6	5.4	2.3
55	6 13.8	6 14.8	5.5	2.2	55	6 28.8	6 29.8	5.5	2.3	55	6 43.8	6 44.9	5.5	2.4
56	6 14.0	6 15.0	5.6	2.2	56	6 29.0	6 30.1	5.6	2.3	56	6 44.0	6 45.1	5.6	2.4
57	6 14.2	6 15.3	5.7	2.3	57	6 29.2	6 30.3	5.7	2.4	57	6 44.2	6 45.4	5.7	2.5
58	6 14.5	6 15.5	5.8	2.3	58	6 29.5	6 30.6	5.8	2.4	58	6 44.5	6 45.6	5.8	2.5
59	6 14.7	6 15.8	5.9	2.4	59	6 29.8	6 30.8	5.9	2.5	59	6 44.8	6 45.9	5.9	2.6
60	6 15.0	6 16.0	6.0	2.5	60	6 30.0	6 31.1	6.0	2.6	60	6 45.0	6 46.1	6.0	2.7

Tablas H. Incrementos y correcciones para los minutos.

27 ^m					28 ^m					29 ^m				
Sol	Aries	d	Corr.		Sol	Aries	d	Corr.		Sol	Aries	d	Corr.	
s	o /	o /	/ /		s	o /	o /	/ /		s	o /	o /	/ /	
00	6 45.0	6 46.1	0.0	0.0	00	7 0.0	7 1.2	0.0	0.0	00	7 15.0	7 16.2	0.0	0.0
01	6 45.2	6 46.4	0.1	0.0	01	7 0.2	7 1.4	0.1	0.0	01	7 15.2	7 16.4	0.1	0.0
02	6 45.5	6 46.6	0.2	0.1	02	7 0.5	7 1.7	0.2	0.1	02	7 15.5	7 16.7	0.2	0.1
03	6 45.7	6 46.9	0.3	0.1	03	7 0.8	7 1.9	0.3	0.1	03	7 15.8	7 16.9	0.3	0.1
04	6 46.0	6 47.1	0.4	0.2	04	7 1.0	7 2.2	0.4	0.2	04	7 16.0	7 17.2	0.4	0.2
05	6 46.2	6 47.4	0.5	0.2	05	7 1.2	7 2.4	0.5	0.2	05	7 16.2	7 17.4	0.5	0.2
06	6 46.5	6 47.6	0.6	0.3	06	7 1.5	7 2.7	0.6	0.3	06	7 16.5	7 17.7	0.6	0.3
07	6 46.8	6 47.9	0.7	0.3	07	7 1.8	7 2.9	0.7	0.3	07	7 16.7	7 17.9	0.7	0.3
08	6 47.0	6 48.1	0.8	0.4	08	7 2.0	7 3.2	0.8	0.4	08	7 17.0	7 18.2	0.8	0.4
09	6 47.3	6 48.4	0.9	0.4	09	7 2.3	7 3.4	0.9	0.4	09	7 17.2	7 18.4	0.9	0.4
10	6 47.5	6 48.6	1.0	0.5	10	7 2.5	7 3.7	1.0	0.5	10	7 17.5	7 18.7	1.0	0.5
11	6 47.8	6 48.9	1.1	0.5	11	7 2.8	7 3.9	1.1	0.5	11	7 17.8	7 18.9	1.1	0.5
12	6 48.0	6 49.1	1.2	0.5	12	7 3.0	7 4.2	1.2	0.6	12	7 18.0	7 19.2	1.2	0.6
13	6 48.3	6 49.4	1.3	0.6	13	7 3.3	7 4.4	1.3	0.6	13	7 18.3	7 19.5	1.3	0.6
14	6 48.5	6 49.6	1.4	0.6	14	7 3.5	7 4.7	1.4	0.7	14	7 18.5	7 19.7	1.4	0.7
15	6 48.8	6 49.9	1.5	0.7	15	7 3.8	7 4.9	1.5	0.7	15	7 18.8	7 20.0	1.5	0.7
16	6 49.0	6 50.1	1.6	0.7	16	7 4.0	7 5.2	1.6	0.7	16	7 19.0	7 20.2	1.6	0.8
17	6 49.3	6 50.4	1.7	0.8	17	7 4.3	7 5.4	1.7	0.8	17	7 19.3	7 20.5	1.7	0.8
18	6 49.5	6 50.6	1.8	0.8	18	7 4.5	7 5.7	1.8	0.8	18	7 19.5	7 20.7	1.8	0.9
19	6 49.8	6 50.9	1.9	0.9	19	7 4.7	7 5.9	1.9	0.9	19	7 19.7	7 21.0	1.9	0.9
20	6 50.0	6 51.1	2.0	0.9	20	7 5.0	7 6.2	2.0	0.9	20	7 20.0	7 21.2	2.0	1.0
21	6 50.2	6 51.4	2.1	0.9	21	7 5.2	7 6.4	2.1	1.0	21	7 20.3	7 21.5	2.1	1.0
22	6 50.5	6 51.6	2.2	1.0	22	7 5.5	7 6.7	2.2	1.0	22	7 20.5	7 21.7	2.2	1.1
23	6 50.7	6 51.9	2.3	1.0	23	7 5.7	7 6.9	2.3	1.1	23	7 20.7	7 22.0	2.3	1.1
24	6 51.0	6 52.1	2.4	1.1	24	7 6.0	7 7.2	2.4	1.1	24	7 21.0	7 22.2	2.4	1.2
25	6 51.2	6 52.4	2.5	1.1	25	7 6.2	7 7.4	2.5	1.2	25	7 21.2	7 22.5	2.5	1.2
26	6 51.5	6 52.6	2.6	1.2	26	7 6.5	7 7.7	2.6	1.2	26	7 21.5	7 22.7	2.6	1.3
27	6 51.8	6 52.9	2.7	1.2	27	7 6.7	7 7.9	2.7	1.3	27	7 21.7	7 23.0	2.7	1.3
28	6 52.0	6 53.1	2.8	1.3	28	7 7.0	7 8.2	2.8	1.3	28	7 22.0	7 23.2	2.8	1.4
29	6 52.3	6 53.4	2.9	1.3	29	7 7.3	7 8.4	2.9	1.4	29	7 22.3	7 23.5	2.9	1.4
30	6 52.5	6 53.6	3.0	1.4	30	7 7.5	7 8.7	3.0	1.4	30	7 22.5	7 23.7	3.0	1.5
31	6 52.8	6 53.9	3.1	1.4	31	7 7.8	7 8.9	3.1	1.4	31	7 22.8	7 24.0	3.1	1.5
32	6 53.0	6 54.1	3.2	1.4	32	7 8.0	7 9.2	3.2	1.5	32	7 23.0	7 24.2	3.2	1.5
33	6 53.3	6 54.4	3.3	1.5	33	7 8.3	7 9.4	3.3	1.5	33	7 23.3	7 24.5	3.3	1.6
34	6 53.5	6 54.6	3.4	1.5	34	7 8.5	7 9.7	3.4	1.6	34	7 23.5	7 24.7	3.4	1.6
35	6 53.7	6 54.9	3.5	1.6	35	7 8.7	7 9.9	3.5	1.6	35	7 23.8	7 25.0	3.5	1.7
36	6 54.0	6 55.1	3.6	1.6	36	7 9.0	7 10.2	3.6	1.7	36	7 24.0	7 25.2	3.6	1.7
37	6 54.3	6 55.4	3.7	1.7	37	7 9.3	7 10.4	3.7	1.7	37	7 24.3	7 25.5	3.7	1.8
38	6 54.5	6 55.6	3.8	1.7	38	7 9.5	7 10.7	3.8	1.8	38	7 24.5	7 25.7	3.8	1.8
39	6 54.7	6 55.9	3.9	1.8	39	7 9.7	7 10.9	3.9	1.8	39	7 24.7	7 26.0	3.9	1.9
40	6 55.0	6 56.1	4.0	1.8	40	7 10.0	7 11.2	4.0	1.9	40	7 25.0	7 26.2	4.0	1.9
41	6 55.3	6 56.4	4.1	1.8	41	7 10.3	7 11.4	4.1	1.9	41	7 25.3	7 26.5	4.1	2.0
42	6 55.5	6 56.6	4.2	1.9	42	7 10.5	7 11.7	4.2	2.0	42	7 25.5	7 26.7	4.2	2.0
43	6 55.7	6 56.9	4.3	1.9	43	7 10.7	7 11.9	4.3	2.0	43	7 25.7	7 27.0	4.3	2.1
44	6 56.0	6 57.1	4.4	2.0	44	7 11.0	7 12.2	4.4	2.1	44	7 26.0	7 27.2	4.4	2.1
45	6 56.3	6 57.4	4.5	2.0	45	7 11.3	7 12.4	4.5	2.1	45	7 26.3	7 27.5	4.5	2.2
46	6 56.5	6 57.6	4.6	2.1	46	7 11.5	7 12.7	4.6	2.1	46	7 26.5	7 27.7	4.6	2.2
47	6 56.7	6 57.9	4.7	2.1	47	7 11.7	7 12.9	4.7	2.2	47	7 26.7	7 28.0	4.7	2.3
48	6 57.0	6 58.1	4.8	2.2	48	7 12.0	7 13.2	4.8	2.2	48	7 27.0	7 28.2	4.8	2.3
49	6 57.3	6 58.4	4.9	2.2	49	7 12.3	7 13.4	4.9	2.3	49	7 27.2	7 28.5	4.9	2.4
50	6 57.5	6 58.6	5.0	2.3	50	7 12.5	7 13.7	5.0	2.3	50	7 27.5	7 28.7	5.0	2.4
51	6 57.8	6 58.9	5.1	2.3	51	7 12.8	7 13.9	5.1	2.4	51	7 27.8	7 29.0	5.1	2.5
52	6 58.0	6 59.1	5.2	2.3	52	7 13.0	7 14.2	5.2	2.4	52	7 28.0	7 29.2	5.2	2.5
53	6 58.2	6 59.4	5.3	2.4	53	7 13.2	7 14.4	5.3	2.5	53	7 28.2	7 29.5	5.3	2.6
54	6 58.5	6 59.6	5.4	2.4	54	7 13.5	7 14.7	5.4	2.5	54	7 28.5	7 29.7	5.4	2.6
55	6 58.8	6 59.9	5.5	2.5	55	7 13.8	7 14.9	5.5	2.6	55	7 28.8	7 30.0	5.5	2.7
56	6 59.0	7 0.1	5.6	2.5	56	7 14.0	7 15.2	5.6	2.6	56	7 29.0	7 30.2	5.6	2.7
57	6 59.2	7 0.4	5.7	2.6	57	7 14.2	7 15.4	5.7	2.7	57	7 29.2	7 30.5	5.7	2.8
58	6 59.5	7 0.6	5.8	2.6	58	7 14.5	7 15.7	5.8	2.7	58	7 29.5	7 30.7	5.8	2.8
59	6 59.8	7 0.9	5.9	2.7	59	7 14.8	7 15.9	5.9	2.8	59	7 29.8	7 31.0	5.9	2.9
60	7 00.0	7 1.2	6.0	2.8	60	7 15.0	7 16.2	6.0	2.9	60	7 30.0	7 31.2	6.0	3.0

Tablas H. Incrementos y correcciones para los minutos.

30 ^m					31 ^m					32 ^m				
Sol	Aries	d	Corr.		Sol	Aries	d	Corr.		Sol	Aries	d	Corr.	
s	° /	° /	/ /		s	° /	° /	/ /		s	° /	° /	/ /	
00	7 30.0	7 31.2	0.0 0.0		00	7 45.0	7 46.3	0.0 0.0		00	8 0.0	8 1.3	0.0 0.0	
01	7 30.3	7 31.5	0.1 0.1		01	7 45.2	7 46.5	0.1 0.1		01	8 0.2	8 1.6	0.1 0.1	
02	7 30.5	7 31.7	0.2 0.1		02	7 45.5	7 46.8	0.2 0.1		02	8 0.5	8 1.8	0.2 0.1	
03	7 30.8	7 32.0	0.3 0.1		03	7 45.7	7 47.0	0.3 0.2		03	8 0.7	8 2.1	0.3 0.2	
04	7 31.0	7 32.2	0.4 0.2		04	7 46.0	7 47.3	0.4 0.2		04	8 1.0	8 2.3	0.4 0.2	
05	7 31.2	7 32.5	0.5 0.3		05	7 46.3	7 47.5	0.5 0.3		05	8 1.3	8 2.6	0.5 0.3	
06	7 31.5	7 32.7	0.6 0.3		06	7 46.5	7 47.8	0.6 0.3		06	8 1.5	8 2.8	0.6 0.3	
07	7 31.7	7 33.0	0.7 0.3		07	7 46.8	7 48.0	0.7 0.4		07	8 1.8	8 3.1	0.7 0.4	
08	7 32.0	7 33.2	0.8 0.4		08	7 47.0	7 48.3	0.8 0.4		08	8 2.0	8 3.3	0.8 0.4	
09	7 32.2	7 33.5	0.9 0.5		09	7 47.2	7 48.5	0.9 0.5		09	8 2.3	8 3.6	0.9 0.5	
10	7 32.5	7 33.7	1.0 0.5		10	7 47.5	7 48.8	1.0 0.5		10	8 2.5	8 3.8	1.0 0.5	
11	7 32.8	7 34.0	1.1 0.6		11	7 47.7	7 49.0	1.1 0.6		11	8 2.8	8 4.1	1.1 0.6	
12	7 33.0	7 34.2	1.2 0.6		12	7 48.0	7 49.3	1.2 0.6		12	8 3.0	8 4.3	1.2 0.6	
13	7 33.3	7 34.5	1.3 0.7		13	7 48.2	7 49.5	1.3 0.7		13	8 3.3	8 4.6	1.3 0.7	
14	7 33.5	7 34.7	1.4 0.7		14	7 48.5	7 49.8	1.4 0.7		14	8 3.5	8 4.8	1.4 0.7	
15	7 33.8	7 35.0	1.5 0.8		15	7 48.8	7 50.0	1.5 0.8		15	8 3.8	8 5.1	1.5 0.8	
16	7 34.0	7 35.2	1.6 0.8		16	7 49.0	7 50.3	1.6 0.8		16	8 4.0	8 5.3	1.6 0.9	
17	7 34.2	7 35.5	1.7 0.8		17	7 49.3	7 50.5	1.7 0.9		17	8 4.2	8 5.6	1.7 0.9	
18	7 34.5	7 35.7	1.8 0.9		18	7 49.5	7 50.8	1.8 0.9		18	8 4.5	8 5.8	1.8 1.0	
19	7 34.8	7 36.0	1.9 0.9		19	7 49.8	7 51.0	1.9 1.0		19	8 4.8	8 6.1	1.9 1.0	
20	7 35.0	7 36.2	2.0 1.0		20	7 50.0	7 51.3	2.0 1.0		20	8 5.0	8 6.3	2.0 1.1	
21	7 35.3	7 36.5	2.1 1.1		21	7 50.2	7 51.5	2.1 1.1		21	8 5.3	8 6.6	2.1 1.1	
22	7 35.5	7 36.7	2.2 1.1		22	7 50.5	7 51.8	2.2 1.1		22	8 5.5	8 6.8	2.2 1.2	
23	7 35.7	7 37.0	2.3 1.1		23	7 50.8	7 52.0	2.3 1.2		23	8 5.7	8 7.1	2.3 1.2	
24	7 36.0	7 37.2	2.4 1.2		24	7 51.0	7 52.3	2.4 1.2		24	8 6.0	8 7.3	2.4 1.3	
25	7 36.2	7 37.5	2.5 1.3		25	7 51.3	7 52.5	2.5 1.3		25	8 6.2	8 7.6	2.5 1.3	
26	7 36.5	7 37.8	2.6 1.3		26	7 51.5	7 52.8	2.6 1.3		26	8 6.5	8 7.8	2.6 1.4	
27	7 36.7	7 38.0	2.7 1.4		27	7 51.7	7 53.0	2.7 1.4		27	8 6.8	8 8.1	2.7 1.4	
28	7 37.0	7 38.3	2.8 1.4		28	7 52.0	7 53.3	2.8 1.4		28	8 7.0	8 8.3	2.8 1.5	
29	7 37.3	7 38.5	2.9 1.5		29	7 52.2	7 53.5	2.9 1.5		29	8 7.3	8 8.6	2.9 1.5	
30	7 37.5	7 38.8	3.0 1.5		30	7 52.5	7 53.8	3.0 1.6		30	8 7.5	8 8.8	3.0 1.6	
31	7 37.7	7 39.0	3.1 1.6		31	7 52.7	7 54.0	3.1 1.6		31	8 7.7	8 9.1	3.1 1.7	
32	7 38.0	7 39.3	3.2 1.6		32	7 53.0	7 54.3	3.2 1.7		32	8 8.0	8 9.3	3.2 1.7	
33	7 38.3	7 39.5	3.3 1.6		33	7 53.3	7 54.5	3.3 1.7		33	8 8.2	8 9.6	3.3 1.8	
34	7 38.5	7 39.8	3.4 1.7		34	7 53.5	7 54.8	3.4 1.8		34	8 8.5	8 9.8	3.4 1.8	
35	7 38.7	7 40.0	3.5 1.8		35	7 53.8	7 55.0	3.5 1.8		35	8 8.7	8 10.1	3.5 1.9	
36	7 39.0	7 40.3	3.6 1.8		36	7 54.0	7 55.3	3.6 1.9		36	8 9.0	8 10.3	3.6 1.9	
37	7 39.3	7 40.5	3.7 1.9		37	7 54.3	7 55.5	3.7 1.9		37	8 9.3	8 10.6	3.7 2.0	
38	7 39.5	7 40.8	3.8 1.9		38	7 54.5	7 55.8	3.8 2.0		38	8 9.5	8 10.8	3.8 2.0	
39	7 39.8	7 41.0	3.9 2.0		39	7 54.7	7 56.1	3.9 2.0		39	8 9.7	8 11.1	3.9 2.1	
40	7 40.0	7 41.3	4.0 2.0		40	7 55.0	7 56.3	4.0 2.1		40	8 10.0	8 11.3	4.0 2.1	
41	7 40.3	7 41.5	4.1 2.0		41	7 55.2	7 56.6	4.1 2.1		41	8 10.2	8 11.6	4.1 2.2	
42	7 40.5	7 41.8	4.2 2.1		42	7 55.5	7 56.8	4.2 2.2		42	8 10.5	8 11.8	4.2 2.2	
43	7 40.7	7 42.0	4.3 2.1		43	7 55.8	7 57.1	4.3 2.2		43	8 10.8	8 12.1	4.3 2.3	
44	7 41.0	7 42.3	4.4 2.2		44	7 56.0	7 57.3	4.4 2.3		44	8 11.0	8 12.3	4.4 2.3	
45	7 41.2	7 42.5	4.5 2.3		45	7 56.3	7 57.6	4.5 2.3		45	8 11.3	8 12.6	4.5 2.4	
46	7 41.5	7 42.8	4.6 2.3		46	7 56.5	7 57.8	4.6 2.4		46	8 11.5	8 12.8	4.6 2.5	
47	7 41.8	7 43.0	4.7 2.4		47	7 56.7	7 58.1	4.7 2.4		47	8 11.8	8 13.1	4.7 2.5	
48	7 42.0	7 43.3	4.8 2.4		48	7 57.0	7 58.3	4.8 2.5		48	8 12.0	8 13.3	4.8 2.6	
49	7 42.3	7 43.5	4.9 2.5		49	7 57.2	7 58.6	4.9 2.5		49	8 12.3	8 13.6	4.9 2.6	
50	7 42.5	7 43.8	5.0 2.5		50	7 57.5	7 58.8	5.0 2.6		50	8 12.5	8 13.8	5.0 2.7	
51	7 42.8	7 44.0	5.1 2.5		51	7 57.8	7 59.1	5.1 2.6		51	8 12.8	8 14.1	5.1 2.7	
52	7 43.0	7 44.3	5.2 2.6		52	7 58.0	7 59.3	5.2 2.7		52	8 13.0	8 14.4	5.2 2.8	
53	7 43.2	7 44.5	5.3 2.6		53	7 58.2	7 59.6	5.3 2.7		53	8 13.2	8 14.6	5.3 2.8	
54	7 43.5	7 44.8	5.4 2.7		54	7 58.5	7 59.8	5.4 2.8		54	8 13.5	8 14.9	5.4 2.9	
55	7 43.7	7 45.0	5.5 2.8		55	7 58.8	8 0.1	5.5 2.8		55	8 13.8	8 15.1	5.5 2.9	
56	7 44.0	7 45.3	5.6 2.8		56	7 59.0	8 0.3	5.6 2.9		56	8 14.0	8 15.4	5.6 3.0	
57	7 44.3	7 45.5	5.7 2.9		57	7 59.2	8 0.6	5.7 2.9		57	8 14.3	8 15.6	5.7 3.0	
58	7 44.5	7 45.8	5.8 2.9		58	7 59.5	8 0.8	5.8 3.0		58	8 14.5	8 15.9	5.8 3.1	
59	7 44.8	7 46.0	5.9 3.0		59	7 59.7	8 1.1	5.9 3.0		59	8 14.8	8 16.1	5.9 3.1	
60	7 45.0	7 46.3	6.0 3.1		60	8 0.0	8 1.3	6.0 3.2		60	8 15.0	8 16.4	6.0 3.3	

Tablas H. Incrementos y correcciones para los minutos.

33 ^m					34 ^m					35 ^m				
Sol	Aries	d	Corr.		Sol	Aries	d	Corr.		Sol	Aries	d	Corr.	
s	° /	° /	' /	' /	s	° /	° /	' /	' /	s	° /	° /	' /	' /
00	8 15.0	8 16.4	0.0	0.0	00	8 30.0	8 31.4	0.0	0.0	00	8 45.0	8 46.4	0.0	0.0
01	8 15.2	8 16.6	0.1	0.1	01	8 30.2	8 31.6	0.1	0.1	01	8 45.2	8 46.7	0.1	0.1
02	8 15.5	8 16.9	0.2	0.1	02	8 30.5	8 31.9	0.2	0.1	02	8 45.5	8 46.9	0.2	0.1
03	8 15.7	8 17.1	0.3	0.2	03	8 30.7	8 32.1	0.3	0.2	03	8 45.7	8 47.2	0.3	0.2
04	8 16.0	8 17.4	0.4	0.2	04	8 31.0	8 32.4	0.4	0.2	04	8 46.0	8 47.4	0.4	0.2
05	8 16.3	8 17.6	0.5	0.3	05	8 31.2	8 32.7	0.5	0.3	05	8 46.3	8 47.7	0.5	0.3
06	8 16.5	8 17.9	0.6	0.3	06	8 31.5	8 32.9	0.6	0.3	06	8 46.5	8 47.9	0.6	0.4
07	8 16.8	8 18.1	0.7	0.4	07	8 31.8	8 33.2	0.7	0.4	07	8 46.8	8 48.2	0.7	0.4
08	8 17.0	8 18.4	0.8	0.4	08	8 32.0	8 33.4	0.8	0.5	08	8 47.0	8 48.4	0.8	0.5
09	8 17.2	8 18.6	0.9	0.5	09	8 32.3	8 33.7	0.9	0.5	09	8 47.2	8 48.7	0.9	0.5
10	8 17.5	8 18.9	1.0	0.6	10	8 32.5	8 33.9	1.0	0.6	10	8 47.5	8 48.9	1.0	0.6
11	8 17.7	8 19.1	1.1	0.6	11	8 32.8	8 34.2	1.1	0.6	11	8 47.7	8 49.2	1.1	0.6
12	8 18.0	8 19.4	1.2	0.7	12	8 33.0	8 34.4	1.2	0.7	12	8 48.0	8 49.4	1.2	0.7
13	8 18.3	8 19.6	1.3	0.7	13	8 33.3	8 34.7	1.3	0.7	13	8 48.3	8 49.7	1.3	0.8
14	8 18.5	8 19.9	1.4	0.8	14	8 33.5	8 34.9	1.4	0.8	14	8 48.5	8 49.9	1.4	0.8
15	8 18.8	8 20.1	1.5	0.8	15	8 33.8	8 35.2	1.5	0.8	15	8 48.8	8 50.2	1.5	0.9
16	8 19.0	8 20.4	1.6	0.9	16	8 34.0	8 35.4	1.6	0.9	16	8 49.0	8 50.4	1.6	0.9
17	8 19.2	8 20.6	1.7	0.9	17	8 34.2	8 35.7	1.7	1.0	17	8 49.2	8 50.7	1.7	1.0
18	8 19.5	8 20.9	1.8	1.0	18	8 34.5	8 35.9	1.8	1.0	18	8 49.5	8 51.0	1.8	1.1
19	8 19.7	8 21.1	1.9	1.0	19	8 34.8	8 36.2	1.9	1.1	19	8 49.7	8 51.2	1.9	1.1
20	8 20.0	8 21.4	2.0	1.1	20	8 35.0	8 36.4	2.0	1.1	20	8 50.0	8 51.5	2.0	1.2
21	8 20.2	8 21.6	2.1	1.2	21	8 35.3	8 36.7	2.1	1.2	21	8 50.2	8 51.7	2.1	1.2
22	8 20.5	8 21.9	2.2	1.2	22	8 35.5	8 36.9	2.2	1.2	22	8 50.5	8 52.0	2.2	1.3
23	8 20.7	8 22.1	2.3	1.3	23	8 35.7	8 37.2	2.3	1.3	23	8 50.7	8 52.2	2.3	1.3
24	8 21.0	8 22.4	2.4	1.3	24	8 36.0	8 37.4	2.4	1.4	24	8 51.0	8 52.5	2.4	1.4
25	8 21.3	8 22.6	2.5	1.4	25	8 36.2	8 37.7	2.5	1.4	25	8 51.2	8 52.7	2.5	1.5
26	8 21.5	8 22.9	2.6	1.4	26	8 36.5	8 37.9	2.6	1.5	26	8 51.5	8 53.0	2.6	1.5
27	8 21.8	8 23.1	2.7	1.5	27	8 36.8	8 38.2	2.7	1.5	27	8 51.8	8 53.2	2.7	1.6
28	8 22.0	8 23.4	2.8	1.5	28	8 37.0	8 38.4	2.8	1.6	28	8 52.0	8 53.5	2.8	1.6
29	8 22.3	8 23.6	2.9	1.6	29	8 37.3	8 38.7	2.9	1.6	29	8 52.3	8 53.7	2.9	1.7
30	8 22.5	8 23.9	3.0	1.7	30	8 37.5	8 38.9	3.0	1.7	30	8 52.5	8 54.0	3.0	1.8
31	8 22.7	8 24.1	3.1	1.7	31	8 37.7	8 39.2	3.1	1.8	31	8 52.8	8 54.2	3.1	1.8
32	8 23.0	8 24.4	3.2	1.8	32	8 38.0	8 39.4	3.2	1.8	32	8 53.0	8 54.5	3.2	1.9
33	8 23.3	8 24.6	3.3	1.8	33	8 38.2	8 39.7	3.3	1.9	33	8 53.3	8 54.7	3.3	1.9
34	8 23.5	8 24.9	3.4	1.9	34	8 38.5	8 39.9	3.4	1.9	34	8 53.5	8 55.0	3.4	2.0
35	8 23.8	8 25.1	3.5	1.9	35	8 38.7	8 40.2	3.5	2.0	35	8 53.8	8 55.2	3.5	2.0
36	8 24.0	8 25.4	3.6	2.0	36	8 39.0	8 40.4	3.6	2.0	36	8 54.0	8 55.5	3.6	2.1
37	8 24.3	8 25.6	3.7	2.0	37	8 39.3	8 40.7	3.7	2.1	37	8 54.3	8 55.7	3.7	2.2
38	8 24.5	8 25.9	3.8	2.1	38	8 39.5	8 40.9	3.8	2.2	38	8 54.5	8 56.0	3.8	2.2
39	8 24.7	8 26.1	3.9	2.1	39	8 39.7	8 41.2	3.9	2.2	39	8 54.7	8 56.2	3.9	2.3
40	8 25.0	8 26.4	4.0	2.2	40	8 40.0	8 41.4	4.0	2.3	40	8 55.0	8 56.5	4.0	2.3
41	8 25.3	8 26.6	4.1	2.3	41	8 40.2	8 41.7	4.1	2.3	41	8 55.3	8 56.7	4.1	2.4
42	8 25.5	8 26.9	4.2	2.3	42	8 40.5	8 41.9	4.2	2.4	42	8 55.5	8 57.0	4.2	2.5
43	8 25.8	8 27.1	4.3	2.4	43	8 40.7	8 42.2	4.3	2.4	43	8 55.8	8 57.2	4.3	2.5
44	8 26.0	8 27.4	4.4	2.4	44	8 41.0	8 42.4	4.4	2.5	44	8 56.0	8 57.5	4.4	2.6
45	8 26.3	8 27.6	4.5	2.5	45	8 41.3	8 42.7	4.5	2.5	45	8 56.3	8 57.7	4.5	2.6
46	8 26.5	8 27.9	4.6	2.5	46	8 41.5	8 42.9	4.6	2.6	46	8 56.5	8 58.0	4.6	2.7
47	8 26.7	8 28.1	4.7	2.6	47	8 41.7	8 43.2	4.7	2.7	47	8 56.7	8 58.2	4.7	2.7
48	8 27.0	8 28.4	4.8	2.6	48	8 42.0	8 43.4	4.8	2.7	48	8 57.0	8 58.5	4.8	2.8
49	8 27.2	8 28.6	4.9	2.7	49	8 42.3	8 43.7	4.9	2.8	49	8 57.3	8 58.7	4.9	2.9
50	8 27.5	8 28.9	5.0	2.8	50	8 42.5	8 43.9	5.0	2.8	50	8 57.5	8 59.0	5.0	2.9
51	8 27.8	8 29.1	5.1	2.8	51	8 42.8	8 44.2	5.1	2.9	51	8 57.8	8 59.2	5.1	3.0
52	8 28.0	8 29.4	5.2	2.9	52	8 43.0	8 44.4	5.2	2.9	52	8 58.0	8 59.5	5.2	3.0
53	8 28.2	8 29.6	5.3	2.9	53	8 43.2	8 44.7	5.3	3.0	53	8 58.2	8 59.7	5.3	3.1
54	8 28.5	8 29.9	5.4	3.0	54	8 43.5	8 44.9	5.4	3.1	54	8 58.5	9 00.0	5.4	3.2
55	8 28.7	8 30.1	5.5	3.0	55	8 43.8	8 45.2	5.5	3.1	55	8 58.7	9 00.2	5.5	3.2
56	8 29.0	8 30.4	5.6	3.1	56	8 44.0	8 45.4	5.6	3.2	56	8 59.0	9 00.5	5.6	3.3
57	8 29.2	8 30.6	5.7	3.1	57	8 44.3	8 45.7	5.7	3.2	57	8 59.2	9 00.7	5.7	3.3
58	8 29.5	8 30.9	5.8	3.2	58	8 44.5	8 45.9	5.8	3.3	58	8 59.5	9 01.0	5.8	3.4
59	8 29.8	8 31.1	5.9	3.2	59	8 44.8	8 46.2	5.9	3.3	59	8 59.8	9 01.2	5.9	3.4
60	8 30.0	8 31.4	6.0	3.4	60	8 45.0	8 46.4	6.0	3.5	60	9 00.0	9 01.5	6.0	3.6

Tablas H. Incrementos y correcciones para los minutos.

36 ^m					37 ^m					38 ^m				
Sol	Aries	d	Corr.		Sol	Aries	d	Corr.		Sol	Aries	d	Corr.	
s	° /	° /	/ /		s	° /	° /	/ /		s	° /	° /	/ /	
00	9 0.0	9 1.5	0.0 0.0		00	9 15.0	9 16.5	0.0 0.0		00	9 30.0	9 31.6	0.0 0.0	
01	9 0.2	9 1.7	0.1 0.1		01	9 15.2	9 16.8	0.1 0.1		01	9 30.2	9 31.8	0.1 0.1	
02	9 0.5	9 2.0	0.2 0.1		02	9 15.5	9 17.0	0.2 0.1		02	9 30.5	9 32.1	0.2 0.1	
03	9 0.7	9 2.2	0.3 0.2		03	9 15.8	9 17.3	0.3 0.2		03	9 30.7	9 32.3	0.3 0.2	
04	9 1.0	9 2.5	0.4 0.2		04	9 16.0	9 17.5	0.4 0.2		04	9 31.0	9 32.6	0.4 0.3	
05	9 1.2	9 2.7	0.5 0.3		05	9 16.3	9 17.8	0.5 0.3		05	9 31.2	9 32.8	0.5 0.3	
06	9 1.5	9 3.0	0.6 0.4		06	9 16.5	9 18.0	0.6 0.4		06	9 31.5	9 33.1	0.6 0.4	
07	9 1.7	9 3.2	0.7 0.4		07	9 16.8	9 18.3	0.7 0.4		07	9 31.8	9 33.3	0.7 0.4	
08	9 2.0	9 3.5	0.8 0.5		08	9 17.0	9 18.5	0.8 0.5		08	9 32.0	9 33.6	0.8 0.5	
09	9 2.3	9 3.7	0.9 0.5		09	9 17.2	9 18.8	0.9 0.6		09	9 32.2	9 33.8	0.9 0.6	
10	9 2.5	9 4.0	1.0 0.6		10	9 17.5	9 19.0	1.0 0.6		10	9 32.5	9 34.1	1.0 0.6	
11	9 2.8	9 4.2	1.1 0.7		11	9 17.7	9 19.3	1.1 0.7		11	9 32.8	9 34.3	1.1 0.7	
12	9 3.0	9 4.5	1.2 0.7		12	9 18.0	9 19.5	1.2 0.7		12	9 33.0	9 34.6	1.2 0.8	
13	9 3.3	9 4.7	1.3 0.8		13	9 18.3	9 19.8	1.3 0.8		13	9 33.3	9 34.8	1.3 0.8	
14	9 3.5	9 5.0	1.4 0.8		14	9 18.5	9 20.0	1.4 0.9		14	9 33.5	9 35.1	1.4 0.9	
15	9 3.8	9 5.2	1.5 0.9		15	9 18.8	9 20.3	1.5 0.9		15	9 33.8	9 35.3	1.5 0.9	
16	9 4.0	9 5.5	1.6 1.0		16	9 19.0	9 20.5	1.6 1.0		16	9 34.0	9 35.6	1.6 1.0	
17	9 4.3	9 5.7	1.7 1.0		17	9 19.2	9 20.8	1.7 1.0		17	9 34.3	9 35.8	1.7 1.1	
18	9 4.5	9 6.0	1.8 1.1		18	9 19.5	9 21.0	1.8 1.1		18	9 34.5	9 36.1	1.8 1.1	
19	9 4.8	9 6.2	1.9 1.1		19	9 19.7	9 21.3	1.9 1.2		19	9 34.8	9 36.3	1.9 1.2	
20	9 5.0	9 6.5	2.0 1.2		20	9 20.0	9 21.5	2.0 1.2		20	9 35.0	9 36.6	2.0 1.3	
21	9 5.3	9 6.7	2.1 1.3		21	9 20.3	9 21.8	2.1 1.3		21	9 35.3	9 36.8	2.1 1.3	
22	9 5.5	9 7.0	2.2 1.3		22	9 20.5	9 22.0	2.2 1.4		22	9 35.5	9 37.1	2.2 1.4	
23	9 5.7	9 7.2	2.3 1.4		23	9 20.7	9 22.3	2.3 1.4		23	9 35.7	9 37.3	2.3 1.5	
24	9 6.0	9 7.5	2.4 1.4		24	9 21.0	9 22.5	2.4 1.5		24	9 36.0	9 37.6	2.4 1.5	
25	9 6.2	9 7.7	2.5 1.5		25	9 21.2	9 22.8	2.5 1.5		25	9 36.2	9 37.8	2.5 1.6	
26	9 6.5	9 8.0	2.6 1.6		26	9 21.5	9 23.0	2.6 1.6		26	9 36.5	9 38.1	2.6 1.6	
27	9 6.8	9 8.2	2.7 1.6		27	9 21.7	9 23.3	2.7 1.7		27	9 36.8	9 38.3	2.7 1.7	
28	9 7.0	9 8.5	2.8 1.7		28	9 22.0	9 23.5	2.8 1.7		28	9 37.0	9 38.6	2.8 1.8	
29	9 7.3	9 8.7	2.9 1.7		29	9 22.3	9 23.8	2.9 1.8		29	9 37.3	9 38.8	2.9 1.8	
30	9 7.5	9 9.0	3.0 1.8		30	9 22.5	9 24.0	3.0 1.9		30	9 37.5	9 39.1	3.0 1.9	
31	9 7.7	9 9.3	3.1 1.9		31	9 22.7	9 24.3	3.1 1.9		31	9 37.7	9 39.3	3.1 2.0	
32	9 8.0	9 9.5	3.2 1.9		32	9 23.0	9 24.5	3.2 2.0		32	9 38.0	9 39.6	3.2 2.0	
33	9 8.2	9 9.8	3.3 2.0		33	9 23.3	9 24.8	3.3 2.0		33	9 38.2	9 39.8	3.3 2.1	
34	9 8.5	9 10.0	3.4 2.0		34	9 23.5	9 25.0	3.4 2.1		34	9 38.5	9 40.1	3.4 2.2	
35	9 8.8	9 10.3	3.5 2.1		35	9 23.8	9 25.3	3.5 2.2		35	9 38.8	9 40.3	3.5 2.2	
36	9 9.0	9 10.5	3.6 2.2		36	9 24.0	9 25.5	3.6 2.2		36	9 39.0	9 40.6	3.6 2.3	
37	9 9.3	9 10.8	3.7 2.2		37	9 24.3	9 25.8	3.7 2.3		37	9 39.3	9 40.8	3.7 2.3	
38	9 9.5	9 11.0	3.8 2.3		38	9 24.5	9 26.0	3.8 2.3		38	9 39.5	9 41.1	3.8 2.4	
39	9 9.7	9 11.3	3.9 2.3		39	9 24.7	9 26.3	3.9 2.4		39	9 39.7	9 41.3	3.9 2.5	
40	9 10.0	9 11.5	4.0 2.4		40	9 25.0	9 26.5	4.0 2.5		40	9 40.0	9 41.6	4.0 2.5	
41	9 10.2	9 11.8	4.1 2.5		41	9 25.3	9 26.8	4.1 2.5		41	9 40.2	9 41.8	4.1 2.6	
42	9 10.5	9 12.0	4.2 2.5		42	9 25.5	9 27.0	4.2 2.6		42	9 40.5	9 42.1	4.2 2.7	
43	9 10.7	9 12.3	4.3 2.6		43	9 25.8	9 27.3	4.3 2.7		43	9 40.7	9 42.3	4.3 2.7	
44	9 11.0	9 12.5	4.4 2.6		44	9 26.0	9 27.6	4.4 2.7		44	9 41.0	9 42.6	4.4 2.8	
45	9 11.3	9 12.8	4.5 2.7		45	9 26.3	9 27.8	4.5 2.8		45	9 41.3	9 42.8	4.5 2.8	
46	9 11.5	9 13.0	4.6 2.8		46	9 26.5	9 28.1	4.6 2.8		46	9 41.5	9 43.1	4.6 2.9	
47	9 11.7	9 13.3	4.7 2.8		47	9 26.7	9 28.3	4.7 2.9		47	9 41.7	9 43.3	4.7 3.0	
48	9 12.0	9 13.5	4.8 2.9		48	9 27.0	9 28.6	4.8 3.0		48	9 42.0	9 43.6	4.8 3.0	
49	9 12.2	9 13.8	4.9 2.9		49	9 27.3	9 28.8	4.9 3.0		49	9 42.2	9 43.8	4.9 3.1	
50	9 12.5	9 14.0	5.0 3.0		50	9 27.5	9 29.1	5.0 3.1		50	9 42.5	9 44.1	5.0 3.2	
51	9 12.8	9 14.3	5.1 3.1		51	9 27.8	9 29.3	5.1 3.1		51	9 42.7	9 44.3	5.1 3.2	
52	9 13.0	9 14.5	5.2 3.1		52	9 28.0	9 29.6	5.2 3.2		52	9 43.0	9 44.6	5.2 3.3	
53	9 13.2	9 14.8	5.3 3.2		53	9 28.2	9 29.8	5.3 3.3		53	9 43.3	9 44.8	5.3 3.4	
54	9 13.5	9 15.0	5.4 3.2		54	9 28.5	9 30.1	5.4 3.3		54	9 43.5	9 45.1	5.4 3.4	
55	9 13.8	9 15.3	5.5 3.3		55	9 28.7	9 30.3	5.5 3.4		55	9 43.8	9 45.3	5.5 3.5	
56	9 14.0	9 15.5	5.6 3.4		56	9 29.0	9 30.6	5.6 3.5		56	9 44.0	9 45.6	5.6 3.5	
57	9 14.3	9 15.8	5.7 3.4		57	9 29.2	9 30.8	5.7 3.5		57	9 44.3	9 45.9	5.7 3.6	
58	9 14.5	9 16.0	5.8 3.5		58	9 29.5	9 31.1	5.8 3.6		58	9 44.5	9 46.1	5.8 3.7	
59	9 14.8	9 16.3	5.9 3.5		59	9 29.8	9 31.3	5.9 3.6		59	9 44.8	9 46.4	5.9 3.7	
60	9 15.0	9 16.5	6.0 3.7		60	9 30.0	9 31.6	6.0 3.8		60	9 45.0	9 46.6	6.0 3.9	

Tablas H. Incrementos y correcciones para los minutos.

39 ^m					40 ^m					41 ^m				
Sol	Aries	d	Corr.		Sol	Aries	d	Corr.		Sol	Aries	d	Corr.	
s	° /	° /	' /	' /	s	° /	° /	' /	' /	s	° /	° /	' /	' /
00	9 45.0	9 46.6	0.0	0.0	00	10 0.0	10 1.6	0.0	0.0	00	10 15.0	10 16.7	0.0	0.0
01	9 45.2	9 46.9	0.1	0.1	01	10 0.2	10 1.9	0.1	0.1	01	10 15.2	10 16.9	0.1	0.1
02	9 45.5	9 47.1	0.2	0.1	02	10 0.5	10 2.1	0.2	0.1	02	10 15.5	10 17.2	0.2	0.1
03	9 45.8	9 47.4	0.3	0.2	03	10 0.7	10 2.4	0.3	0.2	03	10 15.8	10 17.4	0.3	0.2
04	9 46.0	9 47.6	0.4	0.3	04	10 1.0	10 2.6	0.4	0.3	04	10 16.0	10 17.7	0.4	0.3
05	9 46.3	9 47.9	0.5	0.3	05	10 1.2	10 2.9	0.5	0.3	05	10 16.3	10 17.9	0.5	0.3
06	9 46.5	9 48.1	0.6	0.4	06	10 1.5	10 3.1	0.6	0.4	06	10 16.5	10 18.2	0.6	0.4
07	9 46.8	9 48.4	0.7	0.5	07	10 1.8	10 3.4	0.7	0.5	07	10 16.8	10 18.4	0.7	0.5
08	9 47.0	9 48.6	0.8	0.5	08	10 2.0	10 3.6	0.8	0.5	08	10 17.0	10 18.7	0.8	0.5
09	9 47.2	9 48.9	0.9	0.6	09	10 2.2	10 3.9	0.9	0.6	09	10 17.2	10 18.9	0.9	0.6
10	9 47.5	9 49.1	1.0	0.7	10	10 2.5	10 4.2	1.0	0.7	10	10 17.5	10 19.2	1.0	0.7
11	9 47.7	9 49.4	1.1	0.7	11	10 2.7	10 4.4	1.1	0.7	11	10 17.8	10 19.4	1.1	0.8
12	9 48.0	9 49.6	1.2	0.8	12	10 3.0	10 4.7	1.2	0.8	12	10 18.0	10 19.7	1.2	0.8
13	9 48.3	9 49.9	1.3	0.8	13	10 3.3	10 4.9	1.3	0.9	13	10 18.3	10 19.9	1.3	0.9
14	9 48.5	9 50.1	1.4	0.9	14	10 3.5	10 5.2	1.4	0.9	14	10 18.5	10 20.2	1.4	1.0
15	9 48.8	9 50.4	1.5	1.0	15	10 3.8	10 5.4	1.5	1.0	15	10 18.8	10 20.4	1.5	1.0
16	9 49.0	9 50.6	1.6	1.0	16	10 4.0	10 5.7	1.6	1.1	16	10 19.0	10 20.7	1.6	1.1
17	9 49.2	9 50.9	1.7	1.1	17	10 4.3	10 5.9	1.7	1.1	17	10 19.2	10 20.9	1.7	1.2
18	9 49.5	9 51.1	1.8	1.2	18	10 4.5	10 6.2	1.8	1.2	18	10 19.5	10 21.2	1.8	1.2
19	9 49.7	9 51.4	1.9	1.2	19	10 4.8	10 6.4	1.9	1.3	19	10 19.7	10 21.4	1.9	1.3
20	9 50.0	9 51.6	2.0	1.3	20	10 5.0	10 6.7	2.0	1.3	20	10 20.0	10 21.7	2.0	1.4
21	9 50.3	9 51.9	2.1	1.4	21	10 5.3	10 6.9	2.1	1.4	21	10 20.3	10 21.9	2.1	1.4
22	9 50.5	9 52.1	2.2	1.4	22	10 5.5	10 7.2	2.2	1.5	22	10 20.5	10 22.2	2.2	1.5
23	9 50.7	9 52.4	2.3	1.5	23	10 5.7	10 7.4	2.3	1.5	23	10 20.7	10 22.5	2.3	1.6
24	9 51.0	9 52.6	2.4	1.6	24	10 6.0	10 7.7	2.4	1.6	24	10 21.0	10 22.7	2.4	1.6
25	9 51.2	9 52.9	2.5	1.6	25	10 6.3	10 7.9	2.5	1.7	25	10 21.2	10 23.0	2.5	1.7
26	9 51.5	9 53.1	2.6	1.7	26	10 6.5	10 8.2	2.6	1.7	26	10 21.5	10 23.2	2.6	1.8
27	9 51.7	9 53.4	2.7	1.8	27	10 6.8	10 8.4	2.7	1.8	27	10 21.7	10 23.5	2.7	1.8
28	9 52.0	9 53.6	2.8	1.8	28	10 7.0	10 8.7	2.8	1.9	28	10 22.0	10 23.7	2.8	1.9
29	9 52.2	9 53.9	2.9	1.9	29	10 7.3	10 8.9	2.9	1.9	29	10 22.3	10 24.0	2.9	2.0
30	9 52.5	9 54.1	3.0	2.0	30	10 7.5	10 9.2	3.0	2.0	30	10 22.5	10 24.2	3.0	2.0
31	9 52.7	9 54.4	3.1	2.0	31	10 7.7	10 9.4	3.1	2.1	31	10 22.7	10 24.5	3.1	2.1
32	9 53.0	9 54.6	3.2	2.1	32	10 8.0	10 9.7	3.2	2.1	32	10 23.0	10 24.7	3.2	2.2
33	9 53.2	9 54.9	3.3	2.1	33	10 8.2	10 9.9	3.3	2.2	33	10 23.2	10 25.0	3.3	2.3
34	9 53.5	9 55.1	3.4	2.2	34	10 8.5	10 10.2	3.4	2.3	34	10 23.5	10 25.2	3.4	2.3
35	9 53.8	9 55.4	3.5	2.3	35	10 8.8	10 10.4	3.5	2.3	35	10 23.7	10 25.5	3.5	2.4
36	9 54.0	9 55.6	3.6	2.3	36	10 9.0	10 10.7	3.6	2.4	36	10 24.0	10 25.7	3.6	2.5
37	9 54.3	9 55.9	3.7	2.4	37	10 9.3	10 10.9	3.7	2.5	37	10 24.3	10 26.0	3.7	2.5
38	9 54.5	9 56.1	3.8	2.5	38	10 9.5	10 11.2	3.8	2.5	38	10 24.5	10 26.2	3.8	2.6
39	9 54.8	9 56.4	3.9	2.5	39	10 9.7	10 11.4	3.9	2.6	39	10 24.8	10 26.5	3.9	2.7
40	9 55.0	9 56.6	4.0	2.6	40	10 10.0	10 11.7	4.0	2.7	40	10 25.0	10 26.7	4.0	2.7
41	9 55.3	9 56.9	4.1	2.7	41	10 10.2	10 11.9	4.1	2.7	41	10 25.3	10 27.0	4.1	2.8
42	9 55.5	9 57.1	4.2	2.7	42	10 10.5	10 12.2	4.2	2.8	42	10 25.5	10 27.2	4.2	2.9
43	9 55.8	9 57.4	4.3	2.8	43	10 10.8	10 12.4	4.3	2.9	43	10 25.8	10 27.5	4.3	2.9
44	9 56.0	9 57.6	4.4	2.9	44	10 11.0	10 12.7	4.4	2.9	44	10 26.0	10 27.7	4.4	3.0
45	9 56.3	9 57.9	4.5	2.9	45	10 11.3	10 12.9	4.5	3.0	45	10 26.3	10 28.0	4.5	3.1
46	9 56.5	9 58.1	4.6	3.0	46	10 11.5	10 13.2	4.6	3.1	46	10 26.5	10 28.2	4.6	3.1
47	9 56.7	9 58.4	4.7	3.1	47	10 11.7	10 13.4	4.7	3.1	47	10 26.7	10 28.5	4.7	3.2
48	9 57.0	9 58.6	4.8	3.1	48	10 12.0	10 13.7	4.8	3.2	48	10 27.0	10 28.7	4.8	3.3
49	9 57.3	9 58.9	4.9	3.2	49	10 12.2	10 13.9	4.9	3.3	49	10 27.3	10 29.0	4.9	3.3
50	9 57.5	9 59.1	5.0	3.3	50	10 12.5	10 14.2	5.0	3.3	50	10 27.5	10 29.2	5.0	3.4
51	9 57.8	9 59.4	5.1	3.3	51	10 12.7	10 14.4	5.1	3.4	51	10 27.8	10 29.5	5.1	3.5
52	9 58.0	9 59.6	5.2	3.4	52	10 13.0	10 14.7	5.2	3.5	52	10 28.0	10 29.7	5.2	3.6
53	9 58.2	9 59.9	5.3	3.4	53	10 13.2	10 14.9	5.3	3.5	53	10 28.2	10 30.0	5.3	3.6
54	9 58.5	10 0.1	5.4	3.5	54	10 13.5	10 15.2	5.4	3.6	54	10 28.5	10 30.2	5.4	3.7
55	9 58.7	10 0.4	5.5	3.6	55	10 13.8	10 15.4	5.5	3.7	55	10 28.7	10 30.5	5.5	3.8
56	9 59.0	10 0.6	5.6	3.6	56	10 14.0	10 15.7	5.6	3.7	56	10 29.0	10 30.7	5.6	3.8
57	9 59.3	10 0.9	5.7	3.7	57	10 14.3	10 15.9	5.7	3.8	57	10 29.3	10 31.0	5.7	3.9
58	9 59.5	10 1.1	5.8	3.8	58	10 14.5	10 16.2	5.8	3.9	58	10 29.5	10 31.2	5.8	4.0
59	9 59.8	10 1.4	5.9	3.8	59	10 14.8	10 16.4	5.9	3.9	59	10 29.8	10 31.5	5.9	4.0
60	10 0.0	10 1.6	6.0	4.0	60	10 15.0	10 16.7	6.0	4.1	60	10 30.0	10 31.7	6.0	4.2

Tablas H. Incrementos y correcciones para los minutos.

42 ^m					43 ^m					44 ^m				
Sol	Aries	d	Corr.		Sol	Aries	d	Corr.		Sol	Aries	d	Corr.	
s	° /	° /	' /	' /	s	° /	° /	' /	' /	s	° /	° /	' /	' /
00	10 30.0	10 31.7	0.0	0.0	00	10 45.0	10 46.8	0.0	0.0	00	11 0.0	11 1.8	0.0	0.0
01	10 30.2	10 32.0	0.1	0.1	01	10 45.3	10 47.0	0.1	0.1	01	11 0.2	11 2.1	0.1	0.1
02	10 30.5	10 32.2	0.2	0.1	02	10 45.5	10 47.3	0.2	0.1	02	11 0.5	11 2.3	0.2	0.1
03	10 30.7	10 32.5	0.3	0.2	03	10 45.8	10 47.5	0.3	0.2	03	11 0.7	11 2.6	0.3	0.2
04	10 31.0	10 32.7	0.4	0.3	04	10 46.0	10 47.8	0.4	0.3	04	11 1.0	11 2.8	0.4	0.3
05	10 31.2	10 33.0	0.5	0.3	05	10 46.3	10 48.0	0.5	0.4	05	11 1.3	11 3.1	0.5	0.4
06	10 31.5	10 33.2	0.6	0.4	06	10 46.5	10 48.3	0.6	0.4	06	11 1.5	11 3.3	0.6	0.4
07	10 31.8	10 33.5	0.7	0.5	07	10 46.8	10 48.5	0.7	0.5	07	11 1.8	11 3.6	0.7	0.5
08	10 32.0	10 33.7	0.8	0.6	08	10 47.0	10 48.8	0.8	0.6	08	11 2.0	11 3.8	0.8	0.6
09	10 32.2	10 34.0	0.9	0.6	09	10 47.2	10 49.0	0.9	0.6	09	11 2.2	11 4.1	0.9	0.7
10	10 32.5	10 34.2	1.0	0.7	10	10 47.5	10 49.3	1.0	0.7	10	11 2.5	11 4.3	1.0	0.7
11	10 32.7	10 34.5	1.1	0.8	11	10 47.8	10 49.5	1.1	0.8	11	11 2.7	11 4.6	1.1	0.8
12	10 33.0	10 34.7	1.2	0.8	12	10 48.0	10 49.8	1.2	0.9	12	11 3.0	11 4.8	1.2	0.9
13	10 33.2	10 35.0	1.3	0.9	13	10 48.3	10 50.0	1.3	0.9	13	11 3.2	11 5.1	1.3	1.0
14	10 33.5	10 35.2	1.4	1.0	14	10 48.5	10 50.3	1.4	1.0	14	11 3.5	11 5.3	1.4	1.0
15	10 33.8	10 35.5	1.5	1.0	15	10 48.8	10 50.5	1.5	1.1	15	11 3.8	11 5.6	1.5	1.1
16	10 34.0	10 35.7	1.6	1.1	16	10 49.0	10 50.8	1.6	1.1	16	11 4.0	11 5.8	1.6	1.2
17	10 34.2	10 36.0	1.7	1.2	17	10 49.2	10 51.0	1.7	1.2	17	11 4.2	11 6.1	1.7	1.2
18	10 34.5	10 36.2	1.8	1.3	18	10 49.5	10 51.3	1.8	1.3	18	11 4.5	11 6.3	1.8	1.3
19	10 34.8	10 36.5	1.9	1.3	19	10 49.8	10 51.5	1.9	1.4	19	11 4.7	11 6.6	1.9	1.4
20	10 35.0	10 36.7	2.0	1.4	20	10 50.0	10 51.8	2.0	1.4	20	11 5.0	11 6.8	2.0	1.5
21	10 35.3	10 37.0	2.1	1.5	21	10 50.3	10 52.0	2.1	1.5	21	11 5.3	11 7.1	2.1	1.5
22	10 35.5	10 37.2	2.2	1.5	22	10 50.5	10 52.3	2.2	1.6	22	11 5.5	11 7.3	2.2	1.6
23	10 35.7	10 37.5	2.3	1.6	23	10 50.7	10 52.5	2.3	1.6	23	11 5.7	11 7.6	2.3	1.7
24	10 36.0	10 37.7	2.4	1.7	24	10 51.0	10 52.8	2.4	1.7	24	11 6.0	11 7.8	2.4	1.8
25	10 36.3	10 38.0	2.5	1.8	25	10 51.2	10 53.0	2.5	1.8	25	11 6.3	11 8.1	2.5	1.8
26	10 36.5	10 38.2	2.6	1.8	26	10 51.5	10 53.3	2.6	1.9	26	11 6.5	11 8.3	2.6	1.9
27	10 36.8	10 38.5	2.7	1.9	27	10 51.7	10 53.5	2.7	1.9	27	11 6.8	11 8.6	2.7	2.0
28	10 37.0	10 38.7	2.8	2.0	28	10 52.0	10 53.8	2.8	2.0	28	11 7.0	11 8.8	2.8	2.1
29	10 37.3	10 39.0	2.9	2.0	29	10 52.3	10 54.0	2.9	2.1	29	11 7.3	11 9.1	2.9	2.1
30	10 37.5	10 39.2	3.0	2.1	30	10 52.5	10 54.3	3.0	2.1	30	11 7.5	11 9.3	3.0	2.2
31	10 37.7	10 39.5	3.1	2.2	31	10 52.7	10 54.5	3.1	2.2	31	11 7.7	11 9.6	3.1	2.3
32	10 38.0	10 39.7	3.2	2.2	32	10 53.0	10 54.8	3.2	2.3	32	11 8.0	11 9.8	3.2	2.3
33	10 38.2	10 40.0	3.3	2.3	33	10 53.2	10 55.0	3.3	2.4	33	11 8.3	11 10.1	3.3	2.4
34	10 38.5	10 40.2	3.4	2.4	34	10 53.5	10 55.3	3.4	2.4	34	11 8.5	11 10.3	3.4	2.5
35	10 38.8	10 40.5	3.5	2.4	35	10 53.7	10 55.5	3.5	2.5	35	11 8.8	11 10.6	3.5	2.6
36	10 39.0	10 40.8	3.6	2.5	36	10 54.0	10 55.8	3.6	2.6	36	11 9.0	11 10.8	3.6	2.6
37	10 39.3	10 41.0	3.7	2.6	37	10 54.2	10 56.0	3.7	2.7	37	11 9.3	11 11.1	3.7	2.7
38	10 39.5	10 41.3	3.8	2.7	38	10 54.5	10 56.3	3.8	2.7	38	11 9.5	11 11.3	3.8	2.8
39	10 39.7	10 41.5	3.9	2.7	39	10 54.8	10 56.5	3.9	2.8	39	11 9.7	11 11.6	3.9	2.9
40	10 40.0	10 41.8	4.0	2.8	40	10 55.0	10 56.8	4.0	2.9	40	11 10.0	11 11.8	4.0	2.9
41	10 40.2	10 42.0	4.1	2.9	41	10 55.3	10 57.0	4.1	2.9	41	11 10.2	11 12.1	4.1	3.0
42	10 40.5	10 42.3	4.2	2.9	42	10 55.5	10 57.3	4.2	3.0	42	11 10.5	11 12.3	4.2	3.1
43	10 40.8	10 42.5	4.3	3.0	43	10 55.8	10 57.5	4.3	3.1	43	11 10.8	11 12.6	4.3	3.2
44	10 41.0	10 42.8	4.4	3.1	44	10 56.0	10 57.8	4.4	3.2	44	11 11.0	11 12.8	4.4	3.2
45	10 41.3	10 43.0	4.5	3.1	45	10 56.3	10 58.0	4.5	3.2	45	11 11.3	11 13.1	4.5	3.3
46	10 41.5	10 43.3	4.6	3.2	46	10 56.5	10 58.3	4.6	3.3	46	11 11.5	11 13.3	4.6	3.4
47	10 41.7	10 43.5	4.7	3.3	47	10 56.8	10 58.5	4.7	3.4	47	11 11.7	11 13.6	4.7	3.4
48	10 42.0	10 43.8	4.8	3.4	48	10 57.0	10 58.8	4.8	3.4	48	11 12.0	11 13.8	4.8	3.5
49	10 42.2	10 44.0	4.9	3.4	49	10 57.3	10 59.1	4.9	3.5	49	11 12.2	11 14.1	4.9	3.6
50	10 42.5	10 44.3	5.0	3.5	50	10 57.5	10 59.3	5.0	3.6	50	11 12.5	11 14.3	5.0	3.7
51	10 42.7	10 44.5	5.1	3.6	51	10 57.8	10 59.6	5.1	3.7	51	11 12.8	11 14.6	5.1	3.7
52	10 43.0	10 44.8	5.2	3.6	52	10 58.0	10 59.8	5.2	3.7	52	11 13.0	11 14.8	5.2	3.8
53	10 43.2	10 45.0	5.3	3.7	53	10 58.2	11 0.1	5.3	3.8	53	11 13.2	11 15.1	5.3	3.9
54	10 43.5	10 45.3	5.4	3.8	54	10 58.5	11 0.3	5.4	3.9	54	11 13.5	11 15.3	5.4	4.0
55	10 43.7	10 45.5	5.5	3.8	55	10 58.7	11 0.6	5.5	3.9	55	11 13.7	11 15.6	5.5	4.0
56	10 44.0	10 45.8	5.6	3.9	56	10 59.0	11 0.8	5.6	4.0	56	11 14.0	11 15.8	5.6	4.1
57	10 44.3	10 46.0	5.7	4.0	57	10 59.3	11 1.1	5.7	4.1	57	11 14.2	11 16.1	5.7	4.2
58	10 44.5	10 46.3	5.8	4.1	58	10 59.5	11 1.3	5.8	4.2	58	11 14.5	11 16.3	5.8	4.3
59	10 44.8	10 46.5	5.9	4.1	59	10 59.8	11 1.6	5.9	4.2	59	11 14.8	11 16.6	5.9	4.3
60	10 45.0	10 46.8	6.0	4.3	60	11 0.0	11 1.8	6.0	4.4	60	11 15.0	11 16.8	6.0	4.5

Tablas H. Incrementos y correcciones para los minutos.

45 ^m					46 ^m					47 ^m				
Sol	Aries	d	Corr.		Sol	Aries	d	Corr.		Sol	Aries	d	Corr.	
s	° /	° /	' /	' /	s	° /	° /	' /	' /	s	° /	° /	' /	' /
00	11 15.0	11 16.8	0.0	0.0	00	11 30.0	11 31.9	0.0	0.0	00	11 45.0	11 46.9	0.0	0.0
01	11 15.2	11 17.1	0.1	0.1	01	11 30.2	11 32.1	0.1	0.1	01	11 45.2	11 47.2	0.1	0.1
02	11 15.5	11 17.4	0.2	0.2	02	11 30.5	11 32.4	0.2	0.2	02	11 45.5	11 47.4	0.2	0.2
03	11 15.8	11 17.6	0.3	0.2	03	11 30.7	11 32.6	0.3	0.2	03	11 45.7	11 47.7	0.3	0.2
04	11 16.0	11 17.9	0.4	0.3	04	11 31.0	11 32.9	0.4	0.3	04	11 46.0	11 47.9	0.4	0.3
05	11 16.3	11 18.1	0.5	0.4	05	11 31.3	11 33.1	0.5	0.4	05	11 46.3	11 48.2	0.5	0.4
06	11 16.5	11 18.4	0.6	0.4	06	11 31.5	11 33.4	0.6	0.5	06	11 46.5	11 48.4	0.6	0.5
07	11 16.8	11 18.6	0.7	0.5	07	11 31.8	11 33.6	0.7	0.5	07	11 46.8	11 48.7	0.7	0.5
08	11 17.0	11 18.9	0.8	0.6	08	11 32.0	11 33.9	0.8	0.6	08	11 47.0	11 48.9	0.8	0.6
09	11 17.2	11 19.1	0.9	0.7	09	11 32.2	11 34.1	0.9	0.7	09	11 47.3	11 49.2	0.9	0.7
10	11 17.5	11 19.4	1.0	0.8	10	11 32.5	11 34.4	1.0	0.8	10	11 47.5	11 49.4	1.0	0.8
11	11 17.8	11 19.6	1.1	0.8	11	11 32.7	11 34.6	1.1	0.8	11	11 47.8	11 49.7	1.1	0.9
12	11 18.0	11 19.9	1.2	0.9	12	11 33.0	11 34.9	1.2	0.9	12	11 48.0	11 49.9	1.2	0.9
13	11 18.3	11 20.1	1.3	1.0	13	11 33.2	11 35.1	1.3	1.0	13	11 48.3	11 50.2	1.3	1.0
14	11 18.5	11 20.4	1.4	1.0	14	11 33.5	11 35.4	1.4	1.1	14	11 48.5	11 50.4	1.4	1.1
15	11 18.8	11 20.6	1.5	1.1	15	11 33.8	11 35.7	1.5	1.2	15	11 48.8	11 50.7	1.5	1.2
16	11 19.0	11 20.9	1.6	1.2	16	11 34.0	11 35.9	1.6	1.2	16	11 49.0	11 50.9	1.6	1.3
17	11 19.2	11 21.1	1.7	1.3	17	11 34.2	11 36.2	1.7	1.3	17	11 49.2	11 51.2	1.7	1.3
18	11 19.5	11 21.4	1.8	1.4	18	11 34.5	11 36.4	1.8	1.4	18	11 49.5	11 51.4	1.8	1.4
19	11 19.8	11 21.6	1.9	1.4	19	11 34.7	11 36.7	1.9	1.5	19	11 49.8	11 51.7	1.9	1.5
20	11 20.0	11 21.9	2.0	1.5	20	11 35.0	11 36.9	2.0	1.5	20	11 50.0	11 51.9	2.0	1.6
21	11 20.3	11 22.1	2.1	1.6	21	11 35.2	11 37.2	2.1	1.6	21	11 50.3	11 52.2	2.1	1.6
22	11 20.5	11 22.4	2.2	1.7	22	11 35.5	11 37.4	2.2	1.7	22	11 50.5	11 52.4	2.2	1.7
23	11 20.7	11 22.6	2.3	1.7	23	11 35.8	11 37.7	2.3	1.8	23	11 50.7	11 52.7	2.3	1.8
24	11 21.0	11 22.9	2.4	1.8	24	11 36.0	11 37.9	2.4	1.8	24	11 51.0	11 52.9	2.4	1.9
25	11 21.2	11 23.1	2.5	1.9	25	11 36.3	11 38.2	2.5	1.9	25	11 51.2	11 53.2	2.5	2.0
26	11 21.5	11 23.4	2.6	2.0	26	11 36.5	11 38.4	2.6	2.0	26	11 51.5	11 53.4	2.6	2.0
27	11 21.7	11 23.6	2.7	2.0	27	11 36.8	11 38.7	2.7	2.1	27	11 51.8	11 53.7	2.7	2.1
28	11 22.0	11 23.9	2.8	2.1	28	11 37.0	11 38.9	2.8	2.1	28	11 52.0	11 54.0	2.8	2.2
29	11 22.3	11 24.1	2.9	2.2	29	11 37.3	11 39.2	2.9	2.2	29	11 52.3	11 54.2	2.9	2.3
30	11 22.5	11 24.4	3.0	2.3	30	11 37.5	11 39.4	3.0	2.3	30	11 52.5	11 54.5	3.0	2.4
31	11 22.7	11 24.6	3.1	2.3	31	11 37.7	11 39.7	3.1	2.4	31	11 52.7	11 54.7	3.1	2.4
32	11 23.0	11 24.9	3.2	2.4	32	11 38.0	11 39.9	3.2	2.5	32	11 53.0	11 55.0	3.2	2.5
33	11 23.2	11 25.1	3.3	2.5	33	11 38.3	11 40.2	3.3	2.5	33	11 53.2	11 55.2	3.3	2.6
34	11 23.5	11 25.4	3.4	2.5	34	11 38.5	11 40.4	3.4	2.6	34	11 53.5	11 55.5	3.4	2.7
35	11 23.7	11 25.6	3.5	2.6	35	11 38.8	11 40.7	3.5	2.7	35	11 53.7	11 55.7	3.5	2.7
36	11 24.0	11 25.9	3.6	2.7	36	11 39.0	11 40.9	3.6	2.8	36	11 54.0	11 56.0	3.6	2.8
37	11 24.3	11 26.1	3.7	2.8	37	11 39.3	11 41.2	3.7	2.8	37	11 54.3	11 56.2	3.7	2.9
38	11 24.5	11 26.4	3.8	2.8	38	11 39.5	11 41.4	3.8	2.9	38	11 54.5	11 56.5	3.8	3.0
39	11 24.7	11 26.6	3.9	2.9	39	11 39.7	11 41.7	3.9	3.0	39	11 54.7	11 56.7	3.9	3.1
40	11 25.0	11 26.9	4.0	3.0	40	11 40.0	11 41.9	4.0	3.1	40	11 55.0	11 57.0	4.0	3.1
41	11 25.3	11 27.1	4.1	3.1	41	11 40.2	11 42.2	4.1	3.1	41	11 55.2	11 57.2	4.1	3.2
42	11 25.5	11 27.4	4.2	3.2	42	11 40.5	11 42.4	4.2	3.2	42	11 55.5	11 57.5	4.2	3.3
43	11 25.8	11 27.6	4.3	3.2	43	11 40.8	11 42.7	4.3	3.3	43	11 55.8	11 57.7	4.3	3.4
44	11 26.0	11 27.9	4.4	3.3	44	11 41.0	11 42.9	4.4	3.4	44	11 56.0	11 58.0	4.4	3.4
45	11 26.3	11 28.1	4.5	3.4	45	11 41.3	11 43.2	4.5	3.5	45	11 56.3	11 58.2	4.5	3.5
46	11 26.5	11 28.4	4.6	3.4	46	11 41.5	11 43.4	4.6	3.5	46	11 56.5	11 58.5	4.6	3.6
47	11 26.8	11 28.6	4.7	3.5	47	11 41.7	11 43.7	4.7	3.6	47	11 56.8	11 58.7	4.7	3.7
48	11 27.0	11 28.9	4.8	3.6	48	11 42.0	11 43.9	4.8	3.7	48	11 57.0	11 59.0	4.8	3.8
49	11 27.3	11 29.1	4.9	3.7	49	11 42.2	11 44.2	4.9	3.8	49	11 57.3	11 59.2	4.9	3.8
50	11 27.5	11 29.4	5.0	3.8	50	11 42.5	11 44.4	5.0	3.8	50	11 57.5	11 59.5	5.0	3.9
51	11 27.8	11 29.6	5.1	3.8	51	11 42.8	11 44.7	5.1	3.9	51	11 57.8	11 59.7	5.1	4.0
52	11 28.0	11 29.9	5.2	3.9	52	11 43.0	11 44.9	5.2	4.0	52	11 58.0	12 00.0	5.2	4.1
53	11 28.2	11 30.1	5.3	4.0	53	11 43.2	11 45.2	5.3	4.1	53	11 58.2	12 00.2	5.3	4.2
54	11 28.5	11 30.4	5.4	4.1	54	11 43.5	11 45.4	5.4	4.1	54	11 58.5	12 00.5	5.4	4.2
55	11 28.7	11 30.6	5.5	4.1	55	11 43.7	11 45.7	5.5	4.2	55	11 58.8	12 00.7	5.5	4.3
56	11 29.0	11 30.9	5.6	4.2	56	11 44.0	11 45.9	5.6	4.3	56	11 59.0	12 01.0	5.6	4.4
57	11 29.3	11 31.1	5.7	4.3	57	11 44.2	11 46.2	5.7	4.4	57	11 59.3	12 01.2	5.7	4.5
58	11 29.5	11 31.4	5.8	4.3	58	11 44.5	11 46.4	5.8	4.4	58	11 59.5	12 01.5	5.8	4.5
59	11 29.8	11 31.6	5.9	4.4	59	11 44.7	11 46.7	5.9	4.5	59	11 59.8	12 01.7	5.9	4.6
60	11 30.0	11 31.9	6.0	4.6	60	11 45.0	11 46.9	6.0	4.7	60	12 00.0	12 02.0	6.0	4.8

Tablas H. Incrementos y correcciones para los minutos.

48 ^m					49 ^m					50 ^m				
Sol	Aries	d	Corr.		Sol	Aries	d	Corr.		Sol	Aries	d	Corr.	
s	° /	° /	' /	' /	s	° /	° /	' /	' /	s	° /	° /	' /	' /
00	12 0.0	12 2.0	0.0	0.0	00	12 15.0	12 17.0	0.0	0.0	00	12 30.0	12 32.1	0.0	0.0
01	12 0.2	12 2.2	0.1	0.1	01	12 15.2	12 17.3	0.1	0.1	01	12 30.2	12 32.3	0.1	0.1
02	12 0.5	12 2.5	0.2	0.2	02	12 15.5	12 17.5	0.2	0.2	02	12 30.5	12 32.6	0.2	0.2
03	12 0.7	12 2.7	0.3	0.2	03	12 15.7	12 17.8	0.3	0.2	03	12 30.7	12 32.8	0.3	0.3
04	12 1.0	12 3.0	0.4	0.3	04	12 16.0	12 18.0	0.4	0.3	04	12 31.0	12 33.1	0.4	0.3
05	12 1.3	12 3.2	0.5	0.4	05	12 16.2	12 18.3	0.5	0.4	05	12 31.3	12 33.3	0.5	0.4
06	12 1.5	12 3.5	0.6	0.5	06	12 16.5	12 18.5	0.6	0.5	06	12 31.5	12 33.6	0.6	0.5
07	12 1.8	12 3.7	0.7	0.6	07	12 16.8	12 18.8	0.7	0.6	07	12 31.8	12 33.8	0.7	0.6
08	12 2.0	12 4.0	0.8	0.6	08	12 17.0	12 19.0	0.8	0.7	08	12 32.0	12 34.1	0.8	0.7
09	12 2.2	12 4.2	0.9	0.7	09	12 17.3	12 19.3	0.9	0.7	09	12 32.2	12 34.3	0.9	0.8
10	12 2.5	12 4.5	1.0	0.8	10	12 17.5	12 19.5	1.0	0.8	10	12 32.5	12 34.6	1.0	0.8
11	12 2.7	12 4.7	1.1	0.9	11	12 17.8	12 19.8	1.1	0.9	11	12 32.7	12 34.8	1.1	0.9
12	12 3.0	12 5.0	1.2	1.0	12	12 18.0	12 20.0	1.2	1.0	12	12 33.0	12 35.1	1.2	1.0
13	12 3.3	12 5.2	1.3	1.0	13	12 18.3	12 20.3	1.3	1.1	13	12 33.3	12 35.3	1.3	1.1
14	12 3.5	12 5.5	1.4	1.1	14	12 18.5	12 20.5	1.4	1.1	14	12 33.5	12 35.6	1.4	1.2
15	12 3.8	12 5.7	1.5	1.2	15	12 18.8	12 20.8	1.5	1.2	15	12 33.8	12 35.8	1.5	1.3
16	12 4.0	12 6.0	1.6	1.3	16	12 19.0	12 21.0	1.6	1.3	16	12 34.0	12 36.1	1.6	1.3
17	12 4.2	12 6.2	1.7	1.4	17	12 19.2	12 21.3	1.7	1.4	17	12 34.2	12 36.3	1.7	1.4
18	12 4.5	12 6.5	1.8	1.4	18	12 19.5	12 21.5	1.8	1.5	18	12 34.5	12 36.6	1.8	1.5
19	12 4.7	12 6.7	1.9	1.5	19	12 19.8	12 21.8	1.9	1.6	19	12 34.7	12 36.8	1.9	1.6
20	12 5.0	12 7.0	2.0	1.6	20	12 20.0	12 22.0	2.0	1.6	20	12 35.0	12 37.1	2.0	1.7
21	12 5.2	12 7.2	2.1	1.7	21	12 20.3	12 22.3	2.1	1.7	21	12 35.2	12 37.3	2.1	1.8
22	12 5.5	12 7.5	2.2	1.8	22	12 20.5	12 22.5	2.2	1.8	22	12 35.5	12 37.6	2.2	1.8
23	12 5.7	12 7.7	2.3	1.8	23	12 20.7	12 22.8	2.3	1.9	23	12 35.7	12 37.8	2.3	1.9
24	12 6.0	12 8.0	2.4	1.9	24	12 21.0	12 23.0	2.4	2.0	24	12 36.0	12 38.1	2.4	2.0
25	12 6.3	12 8.2	2.5	2.0	25	12 21.2	12 23.3	2.5	2.0	25	12 36.2	12 38.3	2.5	2.1
26	12 6.5	12 8.5	2.6	2.1	26	12 21.5	12 23.5	2.6	2.1	26	12 36.5	12 38.6	2.6	2.2
27	12 6.8	12 8.7	2.7	2.2	27	12 21.8	12 23.8	2.7	2.2	27	12 36.8	12 38.8	2.7	2.3
28	12 7.0	12 9.0	2.8	2.2	28	12 22.0	12 24.0	2.8	2.3	28	12 37.0	12 39.1	2.8	2.3
29	12 7.3	12 9.2	2.9	2.3	29	12 22.3	12 24.3	2.9	2.4	29	12 37.3	12 39.3	2.9	2.4
30	12 7.5	12 9.5	3.0	2.4	30	12 22.5	12 24.5	3.0	2.5	30	12 37.5	12 39.6	3.0	2.5
31	12 7.7	12 9.7	3.1	2.5	31	12 22.7	12 24.8	3.1	2.5	31	12 37.8	12 39.8	3.1	2.6
32	12 8.0	12 10.0	3.2	2.6	32	12 23.0	12 25.0	3.2	2.6	32	12 38.0	12 40.1	3.2	2.7
33	12 8.3	12 10.2	3.3	2.6	33	12 23.2	12 25.3	3.3	2.7	33	12 38.3	12 40.3	3.3	2.8
34	12 8.5	12 10.5	3.4	2.7	34	12 23.5	12 25.5	3.4	2.8	34	12 38.5	12 40.6	3.4	2.8
35	12 8.8	12 10.7	3.5	2.8	35	12 23.7	12 25.8	3.5	2.9	35	12 38.8	12 40.8	3.5	2.9
36	12 9.0	12 11.0	3.6	2.9	36	12 24.0	12 26.0	3.6	2.9	36	12 39.0	12 41.1	3.6	3.0
37	12 9.3	12 11.2	3.7	3.0	37	12 24.3	12 26.3	3.7	3.0	37	12 39.3	12 41.3	3.7	3.1
38	12 9.5	12 11.5	3.8	3.0	38	12 24.5	12 26.5	3.8	3.1	38	12 39.5	12 41.6	3.8	3.2
39	12 9.7	12 11.7	3.9	3.1	39	12 24.7	12 26.8	3.9	3.2	39	12 39.7	12 41.8	3.9	3.3
40	12 10.0	12 12.0	4.0	3.2	40	12 25.0	12 27.0	4.0	3.3	40	12 40.0	12 42.1	4.0	3.3
41	12 10.3	12 12.3	4.1	3.3	41	12 25.2	12 27.3	4.1	3.3	41	12 40.3	12 42.3	4.1	3.4
42	12 10.5	12 12.5	4.2	3.4	42	12 25.5	12 27.5	4.2	3.4	42	12 40.5	12 42.6	4.2	3.5
43	12 10.8	12 12.8	4.3	3.4	43	12 25.7	12 27.8	4.3	3.5	43	12 40.8	12 42.8	4.3	3.6
44	12 11.0	12 13.0	4.4	3.5	44	12 26.0	12 28.0	4.4	3.6	44	12 41.0	12 43.1	4.4	3.7
45	12 11.3	12 13.3	4.5	3.6	45	12 26.3	12 28.3	4.5	3.7	45	12 41.3	12 43.3	4.5	3.8
46	12 11.5	12 13.5	4.6	3.7	46	12 26.5	12 28.5	4.6	3.8	46	12 41.5	12 43.6	4.6	3.8
47	12 11.7	12 13.8	4.7	3.8	47	12 26.7	12 28.8	4.7	3.8	47	12 41.7	12 43.8	4.7	3.9
48	12 12.0	12 14.0	4.8	3.8	48	12 27.0	12 29.0	4.8	3.9	48	12 42.0	12 44.1	4.8	4.0
49	12 12.2	12 14.3	4.9	3.9	49	12 27.3	12 29.3	4.9	4.0	49	12 42.3	12 44.3	4.9	4.1
50	12 12.5	12 14.5	5.0	4.0	50	12 27.5	12 29.5	5.0	4.1	50	12 42.5	12 44.6	5.0	4.2
51	12 12.8	12 14.8	5.1	4.1	51	12 27.8	12 29.8	5.1	4.2	51	12 42.8	12 44.8	5.1	4.3
52	12 13.0	12 15.0	5.2	4.2	52	12 28.0	12 30.0	5.2	4.2	52	12 43.0	12 45.1	5.2	4.3
53	12 13.2	12 15.3	5.3	4.2	53	12 28.2	12 30.3	5.3	4.3	53	12 43.2	12 45.3	5.3	4.4
54	12 13.5	12 15.5	5.4	4.3	54	12 28.5	12 30.6	5.4	4.4	54	12 43.5	12 45.6	5.4	4.5
55	12 13.7	12 15.8	5.5	4.4	55	12 28.8	12 30.8	5.5	4.5	55	12 43.7	12 45.8	5.5	4.6
56	12 14.0	12 16.0	5.6	4.5	56	12 29.0	12 31.1	5.6	4.6	56	12 44.0	12 46.1	5.6	4.7
57	12 14.2	12 16.3	5.7	4.6	57	12 29.3	12 31.3	5.7	4.7	57	12 44.2	12 46.3	5.7	4.8
58	12 14.5	12 16.5	5.8	4.6	58	12 29.5	12 31.6	5.8	4.7	58	12 44.5	12 46.6	5.8	4.8
59	12 14.8	12 16.8	5.9	4.7	59	12 29.8	12 31.8	5.9	4.8	59	12 44.8	12 46.8	5.9	4.9
60	12 15.0	12 17.0	6.0	4.9	60	12 30.0	12 32.1	6.0	5.0	60	12 45.0	12 47.1	6.0	5.1

Tablas H. Incrementos y correcciones para los minutos.

51^m					52^m					53^m				
Sol	Aries	<i>d</i>	Corr.		Sol	Aries	<i>d</i>	Corr.		Sol	Aries	<i>d</i>	Corr.	
s	° /	° /	' /	' /	s	° /	° /	' /	' /	s	° /	° /	' /	' /
00	12 45.0	12 47.1	0.0	0.0	00	13 0.0	13 2.1	0.0	0.0	00	13 15.0	13 17.2	0.0	0.0
01	12 45.2	12 47.3	0.1	0.1	01	13 0.2	13 2.4	0.1	0.1	01	13 15.2	13 17.4	0.1	0.1
02	12 45.5	12 47.6	0.2	0.2	02	13 0.5	13 2.6	0.2	0.2	02	13 15.5	13 17.7	0.2	0.2
03	12 45.7	12 47.8	0.3	0.3	03	13 0.8	13 2.9	0.3	0.3	03	13 15.7	13 17.9	0.3	0.3
04	12 46.0	12 48.1	0.4	0.3	04	13 1.0	13 3.1	0.4	0.3	04	13 16.0	13 18.2	0.4	0.4
05	12 46.2	12 48.3	0.5	0.4	05	13 1.3	13 3.4	0.5	0.4	05	13 16.2	13 18.4	0.5	0.4
06	12 46.5	12 48.6	0.6	0.5	06	13 1.5	13 3.6	0.6	0.5	06	13 16.5	13 18.7	0.6	0.5
07	12 46.7	12 48.9	0.7	0.6	07	13 1.8	13 3.9	0.7	0.6	07	13 16.8	13 18.9	0.7	0.6
08	12 47.0	12 49.1	0.8	0.7	08	13 2.0	13 4.1	0.8	0.7	08	13 17.0	13 19.2	0.8	0.7
09	12 47.3	12 49.4	0.9	0.8	09	13 2.2	13 4.4	0.9	0.8	09	13 17.2	13 19.4	0.9	0.8
10	12 47.5	12 49.6	1.0	0.8	10	13 2.5	13 4.6	1.0	0.9	10	13 17.5	13 19.7	1.0	0.9
11	12 47.8	12 49.9	1.1	0.9	11	13 2.7	13 4.9	1.1	1.0	11	13 17.8	13 19.9	1.1	1.0
12	12 48.0	12 50.1	1.2	1.0	12	13 3.0	13 5.1	1.2	1.0	12	13 18.0	13 20.2	1.2	1.1
13	12 48.3	12 50.4	1.3	1.1	13	13 3.3	13 5.4	1.3	1.1	13	13 18.3	13 20.4	1.3	1.1
14	12 48.5	12 50.6	1.4	1.2	14	13 3.5	13 5.6	1.4	1.2	14	13 18.5	13 20.7	1.4	1.2
15	12 48.8	12 50.9	1.5	1.3	15	13 3.8	13 5.9	1.5	1.3	15	13 18.8	13 20.9	1.5	1.3
16	12 49.0	12 51.1	1.6	1.4	16	13 4.0	13 6.1	1.6	1.4	16	13 19.0	13 21.2	1.6	1.4
17	12 49.3	12 51.4	1.7	1.4	17	13 4.2	13 6.4	1.7	1.5	17	13 19.3	13 21.4	1.7	1.5
18	12 49.5	12 51.6	1.8	1.5	18	13 4.5	13 6.6	1.8	1.6	18	13 19.5	13 21.7	1.8	1.6
19	12 49.8	12 51.9	1.9	1.6	19	13 4.7	13 6.9	1.9	1.6	19	13 19.8	13 21.9	1.9	1.7
20	12 50.0	12 52.1	2.0	1.7	20	13 5.0	13 7.2	2.0	1.7	20	13 20.0	13 22.2	2.0	1.8
21	12 50.3	12 52.4	2.1	1.8	21	13 5.3	13 7.4	2.1	1.8	21	13 20.3	13 22.4	2.1	1.9
22	12 50.5	12 52.6	2.2	1.9	22	13 5.5	13 7.7	2.2	1.9	22	13 20.5	13 22.7	2.2	1.9
23	12 50.7	12 52.9	2.3	2.0	23	13 5.7	13 7.9	2.3	2.0	23	13 20.7	13 22.9	2.3	2.0
24	12 51.0	12 53.1	2.4	2.0	24	13 6.0	13 8.2	2.4	2.1	24	13 21.0	13 23.2	2.4	2.1
25	12 51.2	12 53.4	2.5	2.1	25	13 6.2	13 8.4	2.5	2.2	25	13 21.2	13 23.4	2.5	2.2
26	12 51.5	12 53.6	2.6	2.2	26	13 6.5	13 8.7	2.6	2.3	26	13 21.5	13 23.7	2.6	2.3
27	12 51.8	12 53.9	2.7	2.3	27	13 6.7	13 8.9	2.7	2.3	27	13 21.8	13 23.9	2.7	2.4
28	12 52.0	12 54.1	2.8	2.4	28	13 7.0	13 9.2	2.8	2.4	28	13 22.0	13 24.2	2.8	2.5
29	12 52.3	12 54.4	2.9	2.5	29	13 7.3	13 9.4	2.9	2.5	29	13 22.3	13 24.4	2.9	2.6
30	12 52.5	12 54.6	3.0	2.5	30	13 7.5	13 9.7	3.0	2.6	30	13 22.5	13 24.7	3.0	2.6
31	12 52.7	12 54.9	3.1	2.6	31	13 7.7	13 9.9	3.1	2.7	31	13 22.7	13 24.9	3.1	2.7
32	12 53.0	12 55.1	3.2	2.7	32	13 8.0	13 10.2	3.2	2.8	32	13 23.0	13 25.2	3.2	2.8
33	12 53.2	12 55.4	3.3	2.8	33	13 8.3	13 10.4	3.3	2.9	33	13 23.2	13 25.5	3.3	2.9
34	12 53.5	12 55.6	3.4	2.9	34	13 8.5	13 10.7	3.4	2.9	34	13 23.5	13 25.7	3.4	3.0
35	12 53.8	12 55.9	3.5	3.0	35	13 8.8	13 10.9	3.5	3.0	35	13 23.8	13 26.0	3.5	3.1
36	12 54.0	12 56.1	3.6	3.1	36	13 9.0	13 11.2	3.6	3.1	36	13 24.0	13 26.2	3.6	3.2
37	12 54.3	12 56.4	3.7	3.1	37	13 9.3	13 11.4	3.7	3.2	37	13 24.3	13 26.5	3.7	3.3
38	12 54.5	12 56.6	3.8	3.2	38	13 9.5	13 11.7	3.8	3.3	38	13 24.5	13 26.7	3.8	3.4
39	12 54.7	12 56.9	3.9	3.3	39	13 9.7	13 11.9	3.9	3.4	39	13 24.7	13 27.0	3.9	3.4
40	12 55.0	12 57.1	4.0	3.4	40	13 10.0	13 12.2	4.0	3.5	40	13 25.0	13 27.2	4.0	3.5
41	12 55.2	12 57.4	4.1	3.5	41	13 10.3	13 12.4	4.1	3.6	41	13 25.2	13 27.5	4.1	3.6
42	12 55.5	12 57.6	4.2	3.6	42	13 10.5	13 12.7	4.2	3.6	42	13 25.5	13 27.7	4.2	3.7
43	12 55.7	12 57.9	4.3	3.7	43	13 10.8	13 12.9	4.3	3.7	43	13 25.7	13 28.0	4.3	3.8
44	12 56.0	12 58.1	4.4	3.7	44	13 11.0	13 13.2	4.4	3.8	44	13 26.0	13 28.2	4.4	3.9
45	12 56.3	12 58.4	4.5	3.8	45	13 11.3	13 13.4	4.5	3.9	45	13 26.3	13 28.5	4.5	4.0
46	12 56.5	12 58.6	4.6	3.9	46	13 11.5	13 13.7	4.6	4.0	46	13 26.5	13 28.7	4.6	4.1
47	12 56.7	12 58.9	4.7	4.0	47	13 11.7	13 13.9	4.7	4.1	47	13 26.7	13 29.0	4.7	4.2
48	12 57.0	12 59.1	4.8	4.1	48	13 12.0	13 14.2	4.8	4.2	48	13 27.0	13 29.2	4.8	4.2
49	12 57.2	12 59.4	4.9	4.2	49	13 12.3	13 14.4	4.9	4.2	49	13 27.2	13 29.5	4.9	4.3
50	12 57.5	12 59.6	5.0	4.3	50	13 12.5	13 14.7	5.0	4.3	50	13 27.5	13 29.7	5.0	4.4
51	12 57.8	12 59.9	5.1	4.3	51	13 12.8	13 14.9	5.1	4.4	51	13 27.7	13 30.0	5.1	4.5
52	12 58.0	13 0.1	5.2	4.4	52	13 13.0	13 15.2	5.2	4.5	52	13 28.0	13 30.2	5.2	4.6
53	12 58.2	13 0.4	5.3	4.5	53	13 13.2	13 15.4	5.3	4.6	53	13 28.3	13 30.5	5.3	4.7
54	12 58.5	13 0.6	5.4	4.6	54	13 13.5	13 15.7	5.4	4.7	54	13 28.5	13 30.7	5.4	4.8
55	12 58.8	13 0.9	5.5	4.7	55	13 13.7	13 15.9	5.5	4.8	55	13 28.8	13 31.0	5.5	4.9
56	12 59.0	13 1.1	5.6	4.8	56	13 14.0	13 16.2	5.6	4.9	56	13 29.0	13 31.2	5.6	4.9
57	12 59.3	13 1.4	5.7	4.8	57	13 14.2	13 16.4	5.7	4.9	57	13 29.3	13 31.5	5.7	5.0
58	12 59.5	13 1.6	5.8	4.9	58	13 14.5	13 16.7	5.8	5.0	58	13 29.5	13 31.7	5.8	5.1
59	12 59.8	13 1.9	5.9	5.0	59	13 14.8	13 16.9	5.9	5.1	59	13 29.8	13 32.0	5.9	5.2
60	13 0.0	13 2.1	6.0	5.2	60	13 15.0	13 17.2	6.0	5.3	60	13 30.0	13 32.2	6.0	5.4

Tablas H. Incrementos y correcciones para los minutos.

54 ^m					55 ^m					56 ^m				
Sol	Aries	d	Corr.		Sol	Aries	d	Corr.		Sol	Aries	d	Corr.	
s	° /	° /	' /	' /	s	° /	° /	' /	' /	s	° /	° /	' /	' /
00	13 30.0	13 32.2	0.0	0.0	00	13 45.0	13 47.3	0.0	0.0	00	14 0.0	14 2.3	0.0	0.0
01	13 30.2	13 32.5	0.1	0.1	01	13 45.2	13 47.5	0.1	0.1	01	14 0.2	14 2.6	0.1	0.1
02	13 30.5	13 32.7	0.2	0.2	02	13 45.5	13 47.8	0.2	0.2	02	14 0.5	14 2.8	0.2	0.2
03	13 30.8	13 33.0	0.3	0.3	03	13 45.7	13 48.0	0.3	0.3	03	14 0.8	14 3.1	0.3	0.3
04	13 31.0	13 33.2	0.4	0.4	04	13 46.0	13 48.3	0.4	0.4	04	14 1.0	14 3.3	0.4	0.4
05	13 31.3	13 33.5	0.5	0.5	05	13 46.2	13 48.5	0.5	0.5	05	14 1.3	14 3.6	0.5	0.5
06	13 31.5	13 33.7	0.6	0.5	06	13 46.5	13 48.8	0.6	0.5	06	14 1.5	14 3.8	0.6	0.6
07	13 31.8	13 34.0	0.7	0.6	07	13 46.8	13 49.0	0.7	0.6	07	14 1.8	14 4.1	0.7	0.7
08	13 32.0	13 34.2	0.8	0.7	08	13 47.0	13 49.3	0.8	0.7	08	14 2.0	14 4.3	0.8	0.7
09	13 32.2	13 34.5	0.9	0.8	09	13 47.2	13 49.5	0.9	0.8	09	14 2.2	14 4.6	0.9	0.8
10	13 32.5	13 34.7	1.0	0.9	10	13 47.5	13 49.8	1.0	0.9	10	14 2.5	14 4.8	1.0	0.9
11	13 32.7	13 35.0	1.1	1.0	11	13 47.7	13 50.0	1.1	1.0	11	14 2.8	14 5.1	1.1	1.0
12	13 33.0	13 35.2	1.2	1.1	12	13 48.0	13 50.3	1.2	1.1	12	14 3.0	14 5.3	1.2	1.1
13	13 33.3	13 35.5	1.3	1.2	13	13 48.3	13 50.5	1.3	1.2	13	14 3.3	14 5.6	1.3	1.2
14	13 33.5	13 35.7	1.4	1.3	14	13 48.5	13 50.8	1.4	1.3	14	14 3.5	14 5.8	1.4	1.3
15	13 33.8	13 36.0	1.5	1.4	15	13 48.8	13 51.0	1.5	1.4	15	14 3.8	14 6.1	1.5	1.4
16	13 34.0	13 36.2	1.6	1.4	16	13 49.0	13 51.3	1.6	1.5	16	14 4.0	14 6.3	1.6	1.5
17	13 34.2	13 36.5	1.7	1.5	17	13 49.3	13 51.5	1.7	1.6	17	14 4.2	14 6.6	1.7	1.6
18	13 34.5	13 36.7	1.8	1.6	18	13 49.5	13 51.8	1.8	1.6	18	14 4.5	14 6.8	1.8	1.7
19	13 34.7	13 37.0	1.9	1.7	19	13 49.8	13 52.0	1.9	1.7	19	14 4.7	14 7.1	1.9	1.8
20	13 35.0	13 37.2	2.0	1.8	20	13 50.0	13 52.3	2.0	1.8	20	14 5.0	14 7.3	2.0	1.9
21	13 35.3	13 37.5	2.1	1.9	21	13 50.3	13 52.5	2.1	1.9	21	14 5.3	14 7.6	2.1	2.0
22	13 35.5	13 37.7	2.2	2.0	22	13 50.5	13 52.8	2.2	2.0	22	14 5.5	14 7.8	2.2	2.1
23	13 35.7	13 38.0	2.3	2.1	23	13 50.7	13 53.0	2.3	2.1	23	14 5.7	14 8.1	2.3	2.1
24	13 36.0	13 38.2	2.4	2.2	24	13 51.0	13 53.3	2.4	2.2	24	14 6.0	14 8.3	2.4	2.2
25	13 36.2	13 38.5	2.5	2.3	25	13 51.3	13 53.5	2.5	2.3	25	14 6.2	14 8.6	2.5	2.3
26	13 36.5	13 38.7	2.6	2.3	26	13 51.5	13 53.8	2.6	2.4	26	14 6.5	14 8.8	2.6	2.4
27	13 36.7	13 39.0	2.7	2.4	27	13 51.8	13 54.0	2.7	2.5	27	14 6.7	14 9.1	2.7	2.5
28	13 37.0	13 39.2	2.8	2.5	28	13 52.0	13 54.3	2.8	2.6	28	14 7.0	14 9.3	2.8	2.6
29	13 37.2	13 39.5	2.9	2.6	29	13 52.3	13 54.5	2.9	2.7	29	14 7.3	14 9.6	2.9	2.7
30	13 37.5	13 39.7	3.0	2.7	30	13 52.5	13 54.8	3.0	2.8	30	14 7.5	14 9.8	3.0	2.8
31	13 37.7	13 40.0	3.1	2.8	31	13 52.7	13 55.0	3.1	2.8	31	14 7.7	14 10.1	3.1	2.9
32	13 38.0	13 40.2	3.2	2.9	32	13 53.0	13 55.3	3.2	2.9	32	14 8.0	14 10.3	3.2	3.0
33	13 38.2	13 40.5	3.3	3.0	33	13 53.2	13 55.5	3.3	3.0	33	14 8.2	14 10.6	3.3	3.1
34	13 38.5	13 40.7	3.4	3.1	34	13 53.5	13 55.8	3.4	3.1	34	14 8.5	14 10.8	3.4	3.2
35	13 38.8	13 41.0	3.5	3.1	35	13 53.8	13 56.0	3.5	3.2	35	14 8.7	14 11.1	3.5	3.3
36	13 39.0	13 41.2	3.6	3.2	36	13 54.0	13 56.3	3.6	3.3	36	14 9.0	14 11.3	3.6	3.4
37	13 39.3	13 41.5	3.7	3.3	37	13 54.3	13 56.5	3.7	3.4	37	14 9.3	14 11.6	3.7	3.5
38	13 39.5	13 41.7	3.8	3.4	38	13 54.5	13 56.8	3.8	3.5	38	14 9.5	14 11.8	3.8	3.5
39	13 39.8	13 42.0	3.9	3.5	39	13 54.7	13 57.0	3.9	3.6	39	14 9.8	14 12.1	3.9	3.6
40	13 40.0	13 42.2	4.0	3.6	40	13 55.0	13 57.3	4.0	3.7	40	14 10.0	14 12.3	4.0	3.7
41	13 40.3	13 42.5	4.1	3.7	41	13 55.2	13 57.5	4.1	3.8	41	14 10.3	14 12.6	4.1	3.8
42	13 40.5	13 42.7	4.2	3.8	42	13 55.5	13 57.8	4.2	3.9	42	14 10.5	14 12.8	4.2	3.9
43	13 40.8	13 43.0	4.3	3.9	43	13 55.8	13 58.0	4.3	3.9	43	14 10.8	14 13.1	4.3	4.0
44	13 41.0	13 43.2	4.4	4.0	44	13 56.0	13 58.3	4.4	4.0	44	14 11.0	14 13.3	4.4	4.1
45	13 41.3	13 43.5	4.5	4.0	45	13 56.3	13 58.5	4.5	4.1	45	14 11.3	14 13.6	4.5	4.2
46	13 41.5	13 43.7	4.6	4.1	46	13 56.5	13 58.8	4.6	4.2	46	14 11.5	14 13.8	4.6	4.3
47	13 41.7	13 44.0	4.7	4.2	47	13 56.7	13 59.0	4.7	4.3	47	14 11.7	14 14.1	4.7	4.4
48	13 42.0	13 44.3	4.8	4.3	48	13 57.0	13 59.3	4.8	4.4	48	14 12.0	14 14.3	4.8	4.5
49	13 42.3	13 44.5	4.9	4.4	49	13 57.2	13 59.5	4.9	4.5	49	14 12.3	14 14.6	4.9	4.6
50	13 42.5	13 44.8	5.0	4.5	50	13 57.5	13 59.8	5.0	4.6	50	14 12.5	14 14.8	5.0	4.7
51	13 42.8	13 45.0	5.1	4.6	51	13 57.7	14 0.0	5.1	4.7	51	14 12.8	14 15.1	5.1	4.8
52	13 43.0	13 45.3	5.2	4.7	52	13 58.0	14 0.3	5.2	4.8	52	14 13.0	14 15.3	5.2	4.9
53	13 43.2	13 45.5	5.3	4.8	53	13 58.2	14 0.5	5.3	4.9	53	14 13.2	14 15.6	5.3	4.9
54	13 43.5	13 45.8	5.4	4.9	54	13 58.5	14 0.8	5.4	5.0	54	14 13.5	14 15.8	5.4	5.0
55	13 43.7	13 46.0	5.5	5.0	55	13 58.8	14 1.0	5.5	5.0	55	14 13.7	14 16.1	5.5	5.1
56	13 44.0	13 46.3	5.6	5.0	56	13 59.0	14 1.3	5.6	5.1	56	14 14.0	14 16.3	5.6	5.2
57	13 44.3	13 46.5	5.7	5.1	57	13 59.3	14 1.5	5.7	5.2	57	14 14.3	14 16.6	5.7	5.3
58	13 44.5	13 46.8	5.8	5.2	58	13 59.5	14 1.8	5.8	5.3	58	14 14.5	14 16.8	5.8	5.4
59	13 44.8	13 47.0	5.9	5.3	59	13 59.8	14 2.0	5.9	5.4	59	14 14.8	14 17.1	5.9	5.5
60	13 45.0	13 47.3	6.0	5.5	60	14 0.0	14 2.3	6.0	5.6	60	14 15.0	14 17.3	6.0	5.7

Tablas H. Incrementos y correcciones para los minutos.

57 ^m					58 ^m					59 ^m				
Sol	Aries	d	Corr.		Sol	Aries	d	Corr.		Sol	Aries	d	Corr.	
s	o /	o /	/ /		s	o /	o /	/ /		s	o /	o /	/ /	
00	14 15.0	14 17.3	0.0	0.0	00	14 30.0	14 32.4	0.0	0.0	00	14 45.0	14 47.4	0.0	0.0
01	14 15.2	14 17.6	0.1	0.1	01	14 30.3	14 32.6	0.1	0.1	01	14 45.2	14 47.7	0.1	0.1
02	14 15.5	14 17.8	0.2	0.2	02	14 30.5	14 32.9	0.2	0.2	02	14 45.5	14 47.9	0.2	0.2
03	14 15.7	14 18.1	0.3	0.3	03	14 30.8	14 33.1	0.3	0.3	03	14 45.7	14 48.2	0.3	0.3
04	14 16.0	14 18.3	0.4	0.4	04	14 31.0	14 33.4	0.4	0.4	04	14 46.0	14 48.4	0.4	0.4
05	14 16.2	14 18.6	0.5	0.5	05	14 31.3	14 33.6	0.5	0.5	05	14 46.3	14 48.7	0.5	0.5
06	14 16.5	14 18.8	0.6	0.6	06	14 31.5	14 33.9	0.6	0.6	06	14 46.5	14 48.9	0.6	0.6
07	14 16.8	14 19.1	0.7	0.7	07	14 31.8	14 34.1	0.7	0.7	07	14 46.8	14 49.2	0.7	0.7
08	14 17.0	14 19.3	0.8	0.8	08	14 32.0	14 34.4	0.8	0.8	08	14 47.0	14 49.4	0.8	0.8
09	14 17.2	14 19.6	0.9	0.9	09	14 32.2	14 34.6	0.9	0.9	09	14 47.2	14 49.7	0.9	0.9
10	14 17.5	14 19.8	1.0	0.9	10	14 32.5	14 34.9	1.0	1.0	10	14 47.5	14 49.9	1.0	1.0
11	14 17.7	14 20.1	1.1	1.0	11	14 32.8	14 35.1	1.1	1.1	11	14 47.7	14 50.2	1.1	1.1
12	14 18.0	14 20.3	1.2	1.1	12	14 33.0	14 35.4	1.2	1.2	12	14 48.0	14 50.4	1.2	1.2
13	14 18.2	14 20.6	1.3	1.2	13	14 33.3	14 35.6	1.3	1.3	13	14 48.2	14 50.7	1.3	1.3
14	14 18.5	14 20.9	1.4	1.3	14	14 33.5	14 35.9	1.4	1.4	14	14 48.5	14 50.9	1.4	1.4
15	14 18.8	14 21.1	1.5	1.4	15	14 33.8	14 36.1	1.5	1.5	15	14 48.8	14 51.2	1.5	1.5
16	14 19.0	14 21.4	1.6	1.5	16	14 34.0	14 36.4	1.6	1.5	16	14 49.0	14 51.4	1.6	1.6
17	14 19.2	14 21.6	1.7	1.6	17	14 34.2	14 36.6	1.7	1.6	17	14 49.2	14 51.7	1.7	1.7
18	14 19.5	14 21.9	1.8	1.7	18	14 34.5	14 36.9	1.8	1.7	18	14 49.5	14 51.9	1.8	1.8
19	14 19.8	14 22.1	1.9	1.8	19	14 34.8	14 37.1	1.9	1.8	19	14 49.7	14 52.2	1.9	1.9
20	14 20.0	14 22.4	2.0	1.9	20	14 35.0	14 37.4	2.0	1.9	20	14 50.0	14 52.4	2.0	2.0
21	14 20.3	14 22.6	2.1	2.0	21	14 35.3	14 37.6	2.1	2.0	21	14 50.3	14 52.7	2.1	2.1
22	14 20.5	14 22.9	2.2	2.1	22	14 35.5	14 37.9	2.2	2.1	22	14 50.5	14 52.9	2.2	2.2
23	14 20.7	14 23.1	2.3	2.2	23	14 35.7	14 38.1	2.3	2.2	23	14 50.7	14 53.2	2.3	2.3
24	14 21.0	14 23.4	2.4	2.3	24	14 36.0	14 38.4	2.4	2.3	24	14 51.0	14 53.4	2.4	2.4
25	14 21.3	14 23.6	2.5	2.4	25	14 36.2	14 38.6	2.5	2.4	25	14 51.3	14 53.7	2.5	2.5
26	14 21.5	14 23.9	2.6	2.5	26	14 36.5	14 38.9	2.6	2.5	26	14 51.5	14 53.9	2.6	2.6
27	14 21.8	14 24.1	2.7	2.6	27	14 36.7	14 39.2	2.7	2.6	27	14 51.8	14 54.2	2.7	2.7
28	14 22.0	14 24.4	2.8	2.7	28	14 37.0	14 39.4	2.8	2.7	28	14 52.0	14 54.4	2.8	2.8
29	14 22.3	14 24.6	2.9	2.8	29	14 37.3	14 39.7	2.9	2.8	29	14 52.3	14 54.7	2.9	2.9
30	14 22.5	14 24.9	3.0	2.8	30	14 37.5	14 39.9	3.0	2.9	30	14 52.5	14 54.9	3.0	2.9
31	14 22.7	14 25.1	3.1	2.9	31	14 37.7	14 40.2	3.1	3.0	31	14 52.7	14 55.2	3.1	3.0
32	14 23.0	14 25.4	3.2	3.0	32	14 38.0	14 40.4	3.2	3.1	32	14 53.0	14 55.4	3.2	3.1
33	14 23.2	14 25.6	3.3	3.1	33	14 38.2	14 40.7	3.3	3.2	33	14 53.3	14 55.7	3.3	3.2
34	14 23.5	14 25.9	3.4	3.2	34	14 38.5	14 40.9	3.4	3.3	34	14 53.5	14 55.9	3.4	3.3
35	14 23.8	14 26.1	3.5	3.3	35	14 38.7	14 41.2	3.5	3.4	35	14 53.8	14 56.2	3.5	3.4
36	14 24.0	14 26.4	3.6	3.4	36	14 39.0	14 41.4	3.6	3.5	36	14 54.0	14 56.4	3.6	3.5
37	14 24.3	14 26.6	3.7	3.5	37	14 39.2	14 41.7	3.7	3.6	37	14 54.3	14 56.7	3.7	3.6
38	14 24.5	14 26.9	3.8	3.6	38	14 39.5	14 41.9	3.8	3.7	38	14 54.5	14 56.9	3.8	3.7
39	14 24.7	14 27.1	3.9	3.7	39	14 39.8	14 42.2	3.9	3.8	39	14 54.7	14 57.2	3.9	3.8
40	14 25.0	14 27.4	4.0	3.8	40	14 40.0	14 42.4	4.0	3.9	40	14 55.0	14 57.5	4.0	3.9
41	14 25.2	14 27.6	4.1	3.9	41	14 40.3	14 42.7	4.1	4.0	41	14 55.2	14 57.7	4.1	4.0
42	14 25.5	14 27.9	4.2	4.0	42	14 40.5	14 42.9	4.2	4.1	42	14 55.5	14 58.0	4.2	4.1
43	14 25.8	14 28.1	4.3	4.1	43	14 40.8	14 43.2	4.3	4.2	43	14 55.8	14 58.2	4.3	4.2
44	14 26.0	14 28.4	4.4	4.2	44	14 41.0	14 43.4	4.4	4.3	44	14 56.0	14 58.5	4.4	4.3
45	14 26.3	14 28.6	4.5	4.3	45	14 41.3	14 43.7	4.5	4.3	45	14 56.3	14 58.7	4.5	4.4
46	14 26.5	14 28.9	4.6	4.4	46	14 41.5	14 43.9	4.6	4.4	46	14 56.5	14 59.0	4.6	4.5
47	14 26.7	14 29.1	4.7	4.5	47	14 41.8	14 44.2	4.7	4.5	47	14 56.7	14 59.2	4.7	4.6
48	14 27.0	14 29.4	4.8	4.6	48	14 42.0	14 44.4	4.8	4.6	48	14 57.0	14 59.5	4.8	4.7
49	14 27.2	14 29.6	4.9	4.7	49	14 42.3	14 44.7	4.9	4.7	49	14 57.2	14 59.7	4.9	4.8
50	14 27.5	14 29.9	5.0	4.8	50	14 42.5	14 44.9	5.0	4.8	50	14 57.5	15 00.0	5.0	4.9
51	14 27.7	14 30.1	5.1	4.8	51	14 42.8	14 45.2	5.1	4.9	51	14 57.8	15 00.2	5.1	5.0
52	14 28.0	14 30.4	5.2	4.9	52	14 43.0	14 45.4	5.2	5.0	52	14 58.0	15 00.5	5.2	5.1
53	14 28.2	14 30.6	5.3	5.0	53	14 43.2	14 45.7	5.3	5.1	53	14 58.2	15 00.7	5.3	5.2
54	14 28.5	14 30.9	5.4	5.1	54	14 43.5	14 45.9	5.4	5.2	54	14 58.5	15 01.0	5.4	5.3
55	14 28.7	14 31.1	5.5	5.2	55	14 43.7	14 46.2	5.5	5.3	55	14 58.7	15 01.2	5.5	5.4
56	14 29.0	14 31.4	5.6	5.3	56	14 44.0	14 46.4	5.6	5.4	56	14 59.0	15 01.5	5.6	5.5
57	14 29.3	14 31.6	5.7	5.4	57	14 44.3	14 46.7	5.7	5.5	57	14 59.2	15 01.7	5.7	5.6
58	14 29.5	14 31.9	5.8	5.5	58	14 44.5	14 46.9	5.8	5.6	58	14 59.5	15 02.0	5.8	5.7
59	14 29.8	14 32.1	5.9	5.6	59	14 44.8	14 47.2	5.9	5.7	59	14 59.8	15 02.2	5.9	5.8
60	14 30.0	14 32.4	6.0	5.8	60	14 45.0	14 47.4	6.0	5.9	60	15 00.0	15 02.5	6.0	6.0

Tablas I. Conversión arco-tiempo.

0°-59°		60°-119°		120°-179°		180°-239°		240°-299°		300°-359°		0°.00	0°.25	0°.50	0°.75	
°	h m	°	h m	°	h m	°	h m	°	h m	°	h m	m s	m s	m s	m s	
00	0 00	60	4 00	120	8 00	180	12 00	240	16 00	300	20 00	00	0 00	0 01	0 02	0 03
01	0 04	61	4 04	121	8 04	181	12 04	241	16 04	301	20 04	01	0 04	0 05	0 06	0 07
02	0 08	62	4 08	122	8 08	182	12 08	242	16 08	302	20 08	02	0 08	0 09	0 10	0 11
03	0 12	63	4 12	123	8 12	183	12 12	243	16 12	303	20 12	03	0 12	0 13	0 14	0 15
04	0 16	64	4 16	124	8 16	184	12 16	244	16 16	304	20 16	04	0 16	0 17	0 18	0 19
05	0 20	65	4 20	125	8 20	185	12 20	245	16 20	305	20 20	05	0 20	0 21	0 22	0 23
06	0 24	66	4 24	126	8 24	186	12 24	246	16 24	306	20 24	06	0 24	0 25	0 26	0 27
07	0 28	67	4 28	127	8 28	187	12 28	247	16 28	307	20 28	07	0 28	0 29	0 30	0 31
08	0 32	68	4 32	128	8 32	188	12 32	248	16 32	308	20 32	08	0 32	0 33	0 34	0 35
09	0 36	69	4 36	129	8 36	189	12 36	249	16 36	309	20 36	09	0 36	0 37	0 38	0 39
10	0 40	70	4 40	130	8 40	190	12 40	250	16 40	310	20 40	10	0 40	0 41	0 42	0 43
11	0 44	71	4 44	131	8 44	191	12 44	251	16 44	311	20 44	11	0 44	0 45	0 46	0 47
12	0 48	72	4 48	132	8 48	192	12 48	252	16 48	312	20 48	12	0 48	0 49	0 50	0 51
13	0 52	73	4 52	133	8 52	193	12 52	253	16 52	313	20 52	13	0 52	0 53	0 54	0 55
14	0 56	74	4 56	134	8 56	194	12 56	254	16 56	314	20 56	14	0 56	0 57	0 58	0 59
15	1 00	75	5 00	135	9 00	195	13 00	255	17 00	315	21 00	15	1 00	1 01	1 02	1 03
16	1 04	76	5 04	136	9 04	196	13 04	256	17 04	316	21 04	16	1 04	1 05	1 06	1 07
17	1 08	77	5 08	137	9 08	197	13 08	257	17 08	317	21 08	17	1 08	1 09	1 10	1 11
18	1 12	78	5 12	138	9 12	198	13 12	258	17 12	318	21 12	18	1 12	1 13	1 14	1 15
19	1 16	79	5 16	139	9 16	199	13 16	259	17 16	319	21 16	19	1 16	1 17	1 18	1 19
20	1 20	80	5 20	140	9 20	200	13 20	260	17 20	320	21 20	20	1 20	1 21	1 22	1 23
21	1 24	81	5 24	141	9 24	201	13 24	261	17 24	321	21 24	21	1 24	1 25	1 26	1 27
22	1 28	82	5 28	142	9 28	202	13 28	262	17 28	322	21 28	22	1 28	1 29	1 30	1 31
23	1 32	83	5 32	143	9 32	203	13 32	263	17 32	323	21 32	23	1 32	1 33	1 34	1 35
24	1 36	84	5 36	144	9 36	204	13 36	264	17 36	324	21 36	24	1 36	1 37	1 38	1 39
25	1 40	85	5 40	145	9 40	205	13 40	265	17 40	325	21 40	25	1 40	1 41	1 42	1 43
26	1 44	86	5 44	146	9 44	206	13 44	266	17 44	326	21 44	26	1 44	1 45	1 46	1 47
27	1 48	87	5 48	147	9 48	207	13 48	267	17 48	327	21 48	27	1 48	1 49	1 50	1 51
28	1 52	88	5 52	148	9 52	208	13 52	268	17 52	328	21 52	28	1 52	1 53	1 54	1 55
29	1 56	89	5 56	149	9 56	209	13 56	269	17 56	329	21 56	29	1 56	1 57	1 58	1 59
30	2 00	90	6 00	150	10 00	210	14 00	270	18 00	330	22 00	30	2 00	2 01	2 02	2 03
31	2 04	91	6 04	151	10 04	211	14 04	271	18 04	331	22 04	31	2 04	2 05	2 06	2 07
32	2 08	92	6 08	152	10 08	212	14 08	272	18 08	332	22 08	32	2 08	2 09	2 10	2 11
33	2 12	93	6 12	153	10 12	213	14 12	273	18 12	333	22 12	33	2 12	2 13	2 14	2 15
34	2 16	94	6 16	154	10 16	214	14 16	274	18 16	334	22 16	34	2 16	2 17	2 18	2 19
35	2 20	95	6 20	155	10 20	215	14 20	275	18 20	335	22 20	35	2 20	2 21	2 22	2 23
36	2 24	96	6 24	156	10 24	216	14 24	276	18 24	336	22 24	36	2 24	2 25	2 26	2 27
37	2 28	97	6 28	157	10 28	217	14 28	277	18 28	337	22 28	37	2 28	2 29	2 30	2 31
38	2 32	98	6 32	158	10 32	218	14 32	278	18 32	338	22 32	38	2 32	2 33	2 34	2 35
39	2 36	99	6 36	159	10 36	219	14 36	279	18 36	339	22 36	39	2 36	2 37	2 38	2 39
40	2 40	100	6 40	160	10 40	220	14 40	280	18 40	340	22 40	40	2 40	2 41	2 42	2 43
41	2 44	101	6 44	161	10 44	221	14 44	281	18 44	341	22 44	41	2 44	2 45	2 46	2 47
42	2 48	102	6 48	162	10 48	222	14 48	282	18 48	342	22 48	42	2 48	2 49	2 50	2 51
43	2 52	103	6 52	163	10 52	223	14 52	283	18 52	343	22 52	43	2 52	2 53	2 54	2 55
44	2 56	104	6 56	164	10 56	224	14 56	284	18 56	344	22 56	44	2 56	2 57	2 58	2 59
45	3 00	105	7 00	165	11 00	225	15 00	285	19 00	345	23 00	45	3 00	3 01	3 02	3 03
46	3 04	106	7 04	166	11 04	226	15 04	286	19 04	346	23 04	46	3 04	3 05	3 06	3 07
47	3 08	107	7 08	167	11 08	227	15 08	287	19 08	347	23 08	47	3 08	3 09	3 10	3 11
48	3 12	108	7 12	168	11 12	228	15 12	288	19 12	348	23 12	48	3 12	3 13	3 14	3 15
49	3 16	109	7 16	169	11 16	229	15 16	289	19 16	349	23 16	49	3 16	3 17	3 18	3 19
50	3 20	110	7 20	170	11 20	230	15 20	290	19 20	350	23 20	50	3 20	3 21	3 22	3 23
51	3 24	111	7 24	171	11 24	231	15 24	291	19 24	351	23 24	51	3 24	3 25	3 26	3 27
52	3 28	112	7 28	172	11 28	232	15 28	292	19 28	352	23 28	52	3 28	3 29	3 30	3 31
53	3 32	113	7 32	173	11 32	233	15 32	293	19 32	353	23 32	53	3 32	3 33	3 34	3 35
54	3 36	114	7 36	174	11 36	234	15 36	294	19 36	354	23 36	54	3 36	3 37	3 38	3 39
55	3 40	115	7 40	175	11 40	235	15 40	295	19 40	355	23 40	55	3 40	3 41	3 42	3 43
56	3 44	116	7 44	176	11 44	236	15 44	296	19 44	356	23 44	56	3 44	3 45	3 46	3 47
57	3 48	117	7 48	177	11 48	237	15 48	297	19 48	357	23 48	57	3 48	3 49	3 50	3 51
58	3 52	118	7 52	178	11 52	238	15 52	298	19 52	358	23 52	58	3 52	3 53	3 54	3 55
59	3 56	119	7 56	179	11 56	239	15 56	299	19 56	359	23 56	59	3 56	3 57	3 58	3 59

Descripción de las tablas

Calendario civil y religioso de Colombia

En la tabla superior de la página 7 están contenidos los días festivos, oficialmente establecidos en la República de Colombia y algunas fechas importantes del calendario religioso.

Fases de la Luna

La tabla inferior de la página 7 contiene los instantes de tiempo en que se verifican cada una de las fases lunares señaladas mes a mes, durante todo el año. Los tiempos están dados en Tiempo Universal (TU).

Eclipses

En la página 8 se encuentra información sobre los eclipses de Luna y de Sol que se presentan a lo largo del año, independientemente de si se observan en la República de Colombia o no. Se describe la hora del máximo de eclipse en hora legal colombiana, así como los lugares geográficos en donde es posible observar el fenómeno. Para el caso de un eclipse lunar observado en el territorio nacional, se muestran los tiempos en que ocurren cada una de las fases del evento.

Tabla A. Corrección altura del ojo

En la página 9, bloque Tabla A, se muestran los valores de corrección por altura del ojo del observador sobre el nivel del mar y que deben aplicarse a la altura observada (altura del sextante corregida por error de índice) de los astros usados en navegación astronómica.

La Tabla está compuesta por tres columnas. Las columnas externas corresponden a la altura del ojo (Alt. del ojo) en metros (m) y una columna central indica la corrección entre los valores superior e inferior de altura. Esta corrección está dada en minutos (') de arco con signo negativo (-), lo que significa que este valor se resta a la altura observada. Las alturas contempladas parten desde 1 metro hasta 15.9 metros.

Tabla B. Correcciones por refracción, semidiámetro y paralaje del Sol

En la página 9, bloque Tabla B, se muestran los valores de corrección por refracción, semidiámetro y paralaje que debe aplicarse a la altura aparente del Sol (altura observada corregida por altura del ojo).

La Tabla está conformada por un sub-bloque para los meses de octubre a marzo y otros para los meses de abril y septiembre. Cada sub-bloque tiene dos columnas externas para la altura aparente (Alt. aparente) en grados y minutos ($^{\circ}$ ') y dos columnas internas con la corrección por observación del Sol en su limbo inferior (Corr. limb. inf.), dada en minutos de arco (') de signo positivo (+), es decir, que se suma a la altura aparente, y otra columna interna con la corrección por observación del Sol en su limbo superior (Corr. limb. sup.) dada en minutos de arco (') de signo negativo (-), es decir, que se resta a la altura aparente. Las alturas contempladas para los meses de octubre a marzo parten desde $09^{\circ} 45'$ hasta $90^{\circ} 00'$. Entre abril y septiembre va desde $09^{\circ} 50'$ hasta $90^{\circ} 00'$.

Tabla C. Correcciones por refracción - Estrellas

En la página 9, Tabla C, se muestran los valores de corrección por refracción que debe aplicarse a la altura aparente de una estrella (altura observada corregida por altura del ojo).

La Tabla está conformada por tres columnas. Las columnas externas contienen la altura aparente (Alt. apte.) en grados y minutos ($^{\circ}$ '), y una columna central contiene la corrección correspondiente para la altura superior e inferior de la estrella dada en minutos (') de arco con signo

negativo (-); es decir, que se resta a la altura aparente. Las alturas contempladas van desde 10° 07' hasta 90° 00'.

La configuración de las tablas A, B y C con un valor de altura mínimo y máximo, permiten al usuario determinar con precisión la corrección respectiva.

Tablas D y E. Conversión Tiempo Medio Local (TML)–Tiempo Universal (TU)

En las páginas 10 y 11 están las tablas que facilitan la conversión del Tiempo Medio Local (TML) al Tiempo Universal (TU), teniendo en cuenta que las coordenadas celestes de los astros, en el Almanaque Náutico, están dadas en Tiempo Universal (TU) llamado también Tiempo Solar Medio en Greenwich.

Las tablas están conformadas por una columna para el TML, desde las 00 horas (h) hasta las 23 horas. Una fila superior para los meridianos centrales (Meridianos cada 15°) desde longitud 00° hasta 180°, tanto para longitudes Este (Tabla D) y longitudes Oeste (Tabla E). En la parte inferior de las tablas se encuentra un ejemplo para su uso.

Tabla F. Conversión diferencia de longitud–Tiempo

En las páginas 12 y 13 está la Tabla que facilita el cálculo de la corrección por longitud, necesario para determinar la hora local de los tiempos dados en el Almanaque Náutico de crepúsculos de la observación, vespertino, matutino, hora del orto y del ocaso.

La Tabla está conformada por una columna para los minutos de arco desde 00' hasta 59'. Una fila superior para los grados desde 00° hasta 7°. Esto se debe a que la máxima diferencia de longitud entre meridianos centrales es de 7° 30'. En la parte inferior de la Tabla se encuentra un ejemplo para su uso.

Tablas G. Tablas diaria de coordenadas y tiempos

Entre las páginas 14 y 196 están las tablas que proporcionan información necesaria para determinar las coordenadas celestes del Sol y las estrellas, al igual que los tiempos de los crepúsculos de observación (9° debajo del horizonte), el orto y ocaso del Sol. En la parte inferior se muestra la Ecuación del Tiempo, los tiempos de paso por el meridiano del Sol y la edad, el porcentaje de iluminación y la fase de la Luna. A continuación se detalla cada una de las partes de esta Tabla.

Título. Fecha para cada dos días dada en nombre del día, número del día, mes y año.

Columna Día. Números que representan la fecha para cada dos días por página, hasta completar los 365 días del año.

Columna TU. Horas del Tiempo Universal o Tiempo Solar Medio en Greenwich, desde las 00 horas hasta las 23 horas para cada dos días, por página.

Columna Aries-GHA. Datos del Ángulo Horario de Greenwich (GHA, por sus siglas en inglés) del punto de Aries o equinoccio de primavera, en grados (°) y minutos ('). Estos datos corresponden a cada una de las 24 horas del día, cada dos días por página.

Columna Sol-GHA. Datos del Ángulo Horario de Greenwich (GHA, por sus siglas en inglés) del Sol, en grados (°) y minutos ('). Estos datos corresponden a cada una de las 24 horas del día, cada dos días por página.

Columna Sol-Dec. Datos de Declinación (Dec) del Sol, antecedido por una letra N si el astro está en el hemisferio norte celeste o S para el caso en que el astro esté en el hemisferio sur celeste;

está dado en grados (°) y minutos ('). Estos datos corresponden a cada una de las 24 horas del día, cada dos días por página.

Columna Lat. Datos de latitud para las horas de los crepúsculos, orto y ocaso. La letra que antecede al valor corresponde a latitudes Norte (N) y Sur (S). Con el fin de evitar lo menos posible interpolaciones, esta columna se ha dispuesto de la siguiente forma:

- Latitudes de 0° a 15°: diferencia entre latitudes de 1°. Las horas entre estas latitudes no requieren ningún tipo de interpolación por latitud.
- Latitudes de 15° a 60°: diferencia entre latitudes de 5°. Las horas entre estas latitudes requieren dividir la diferencia en tiempo entre la hora superior e inferior entre 5 y el tiempo resultante será el valor a sumar o restar entre grados, según corresponda.

Columna Crep. obs. matu. Tiempo para el crepúsculo de la observación matutino (9° el Sol debajo del horizonte), dado en horas (h) y minutos (m) de tiempo, para cada una de las latitudes correspondientes.

Columna Orto. Tiempo para la salida del Sol sobre el horizonte, dados en horas (h) y minutos (m) para cada una de las latitudes correspondientes.

Columna Ocaso. Tiempo para la puesta del Sol sobre el horizonte, dados en horas (h) y minutos (m) para cada una de las latitudes correspondientes.

Columna Crep. obs. vesp. Tiempo en el que se verifica el crepúsculo de la observación vespertino (9° el Sol debajo del horizonte), dadas en horas (h) y minutos (m) de tiempo, para cada una de las latitudes correspondientes. El símbolo (—) indica que, a causa de los valores de la declinación del Sol combinado con el valor de la latitud, no existe un tiempo que corresponda al inicio o final del crepúsculo.

Columna Estrella-Nombre. Listado de 48 estrellas de primera y segunda magnitud de brillo aparente.

Columna Estrellas-SHA. Datos del Ángulo Horario Sideral (SHA, por sus siglas en inglés) de la estrella que corresponda, en grados (°) y minutos (').

Columna Estrellas-Dec. Datos de declinación (Dec) de la estrella que le corresponde, antecedido por una letra inicial N si el astro se encuentra en el hemisferio norte celeste y S si se encuentra en el hemisferio sur celeste; está dada en grados (°) y minutos (').

Columna Sol-Ecuación del Tiempo. Dos columnas con horas de la Ecuación del Tiempo del Sol, para las 00 horas y 12 horas. Están dadas en minutos (m) y segundos (s) de tiempo, para cada uno de los días descritos en la columna Día.

Columna Sol-Corr d. Datos con la tasa de cambio de la declinación para la corrección para los minutos. Está dada en minutos de arco (') para cada uno de los días descritos en la columna Día.

Columna Sol-Paso por el meridiano. Datos con la hora del paso del Sol por el meridiano. Están dadas en horas (h) y minutos (m) de tiempo, para cada uno de los días descritos en la columna Día.

Columna Luna-edad-día. Datos con la edad de la Luna, para cada uno de los días descritos en la columna Día. Estos datos corresponden a los números de días y fracción de día transcurridos desde la última luna nueva. Están dispuestos como se muestra a continuación. Edad 29: luna nueva; Edad 7: cuarto creciente; Edad 14: luna llena; Edad 21: cuarto menguante. Los valores intermedios representan estados intermedios de las fases lunares.

Columna Luna porcentaje de iluminación. Datos con el porcentaje en que se encuentra iluminada la Luna, para cada uno de los días descritos en la columna Día.

Columna Luna-fase. En ella está el gráfico de un círculo que representa el área iluminada de la Luna en blanco y el área oscura en negro, para cada uno de los días descritos en la columna Día.

Tablas H. Incrementos y correcciones para los minutos

Entre las páginas 197 y 216 están las tablas que contienen los valores correspondientes al incremento y la corrección por minutos y segundos del momento exacto de la observación. Cada página contiene tres bloques verticales donde, a la vez, cada uno corresponde a los datos de minuto en minuto desde 0 (^m) hasta 59 minutos. Cada bloque tiene cinco columnas, así:

Columna S. Segundos correspondientes al valor de minuto encabezado, desde 00 segundos hasta 60 segundos que equivale a 00 segundos del minuto inmediatamente posterior.

Columna Sol. Datos con el incremento por segundos del Ángulo Horario de Greenwich (GHA, por las siglas en inglés) del Sol. Están dados en grados (°) y minutos (').

Columna Aries. Datos con el incremento por segundos del GHA de Aries. Están dados en grados (°) y minutos (').

Columna *d*. Datos con la tasa de cambio de la declinación para la corrección para los minutos de la declinación y descrito en Columna Sol-Corr *d* de las tablas G. Está dado en minutos (') de arco.

Columna Corr. Corrección a los minutos de la declinación del Sol y equivale a la tasa de cambio de la declinación para la corrección para los minutos de la declinación y descrito en la columna *d*. Está dada en minutos (') de arco y se suma o se resta dependiendo si el ángulo de la declinación aumenta o disminuye, respectivamente.

Tabla I. Conversión arco–tiempo

En la página 217 está la Tabla que facilita la conversión de las medidas de arco o de ángulo a tiempo. Está conformada por un bloque de columnas que contienen seis columnas con los grados desde 00 grados (°) hasta 359° de arco a tiempo en horas y otras seis columnas con su equivalencia en tiempo, expresada en horas(h) y minutos (m). Otro bloque contiene una columna con los minutos de arco (') desde 00' hasta 59' y 4 columnas con la equivalencia en tiempo, expresada en minutos (m) y segundos (s) para 0.00', 0.25', 0.50' y 0.75' de arco.

Ejemplos

El método de navegación astronómica más practicado en la actualidad es el método del intercepto (*Intercept method*). Este procedimiento parte de conocer la altura del sextante de un astro y su tiempo de observación en horas, minutos y segundos. Una vez obtenida la información anterior, se procede a hacer uso del almanaque náutico del año correspondiente, el cual permite calcular la altura verdadera, el ángulo horario local y la declinación del astro observado. Sucesivamente y por diferentes métodos se puede obtener la altura calculada y el azimut del astro en cuestión para, finalmente, hacer la reducción de alturas al comparar la altura verdadera con la altura calculada y su diferencia genera un intercepto que, en conjunto con el azimut y la posición asumida, permiten graficar una línea de posición.

Con el fin de facilitar el método de reducción para determinar la posición de un buque en altamar con ayuda de los astros, a continuación se presentan varios ejemplos de los cálculos involucrados con el uso de este Almanaque Náutico.

1. Cálculos de la altura verdadera, LHA y declinación del Sol

Fecha:	01 de agosto del año 2015
Posición estimada:	latitud 15° 10' N y longitud 83° 40'W
Altura del ojo del observador:	8.0 metros. (Desde el nivel del mar)
Astro observado:	Sol (limbo inferior)
Altura sextante del astro:	43° 20.6'
Hora de la observación:	10 horas 45 minutos 05 segundos
Error de índice del sextante:	+1.0'
Requerimientos:	Altura verdadera Ángulo horario local (LHA) Declinación

1.1 Cálculo de la altura verdadera

Nombre	Dato	Origen en el Almanaque Náutico
Altura sextante	43° 20.6'	
Corrección de índice	+1.0'	
Altura observada	43° 21.6'	
Corrección altura del ojo (8 m)	- 5.0'	Tabla A. Corrección altura del ojo. Corrección entre 7.9 y 8.1 metros.
Altura aparente	43° 16.6'	
Corrección por refracción	+ 15.0'	Tabla B. Correcciones altura del Sol. Sub-bloque Abril-Septiembre, corrección entre alturas 42° 28' y 45° 28', fila limbo inferior.
Altura verdadera	43° 31.6'	

1.2 Cálculo del Tiempo Universal-TU

Nombre	Dato	Origen en el Almanaque Náutico
Longitud estimada	83° 40'W	
Meridiano central más cercano	90° W	
TML-Tiempo Medio Local	10h 45m 05s	
Hora calculada	16h	Tabla E. Conversión TMLTU. Longitud Oeste. Columna 90°, fila 10h.
TU-Tiempo Universal	16h 45m 05s	

1.3 Cálculo de Ángulo Horario Local (LHA)

Nombre	Dato	Origen en el Almanaque Náutico
Fecha	1/ ago/2015	
TU-Tiempo Universal	16h 45m 05s	
GHA-Ángulo Horario de Greenwich del Sol (16 h)	58° 25.0'	Tablas G. Tablas diarias de coordenadas y tiempos. Columna Aries, fila 10h.
GHA del Sol (45 m 05 s)	11° 16.3'	Tablas H. Incrementos y correcciones para los minutos. Bloque 45 m, columna Sol, fila 05 s.
GHA total del Sol	69° 41.3'	GHA h + GHA m/s
Longitud asumida	- 83° 41.3' W	Se igualan los minutos a los minutos del GHA, teniendo en cuenta su mayor proximidad a la posición estimada. Si es al Oeste se resta, al Este se suma.
LHA - Ángulo Horario Local	346° 00.0'	$(360° + 69° 41.3') - 83° 41.3'$

1.4 Cálculo de la declinación

Nombre	Dato	Origen en el Almanaque Náutico
Fecha	01/ago/2015	
TU- Tiempo Universal	16 h 45 m 05 s	
Declinación del Sol (16 h)	N 17° 58.7'	Tablas G. Tablas diarias de coordenadas y tiempos. Bloque Sol, Columna Dec, fila 16 h.
Corr. d (Tasa de cambio de la declinación para los minutos)	0.6'	Tablas G. Tablas diarias de coordenadas y tiempos. Bloque inferior- Sol, Columna corr d, fila Día 01
Corr.	-0.4'	Tablas H. Incrementos y correcciones para los minutos. Bloque 45 m, columna d, fila 0.6. Se resta cuando el dato de la declinación a la hora siguiente es menor, o se suma, si es mayor.
Declinación total del Sol	N 17° 58.3'	Declinación 16 h menos Corr.

2. Cálculos de la altura verdadera, LHA y declinación de una estrella

Fecha:	01 de agosto del año 2015
Posición estimada:	latitud 12° 15' N y longitud 79° 40'W
Altura del ojo del observador:	10.5 metros. (Desde el nivel del mar)
Astro observado:	Estrella Capella
Altura sextante del astro:	35° 09.6
Hora de la observación:	05 horas 30 minutos 15 segundos
Error de índice del sextante:	-0.5'
Requerimientos:	Altura verdadera Angulo horario local (LHA) Declinación

2.1 Cálculo de la altura verdadera

Nombre	Dato	Origen en el Almanaque Náutico
Altura sextante	35° 09.6'	
Corrección de índice	- 0.5'	
Altura observada	35° 09.1'	
Corrección altura del ojo (10.5 m)	- 5.7'	Tabla A. Corrección altura del ojo. Corrección entre 10.3 y 10.5 metros.
Altura aparente	35° 03.4'	Tabla C. Correcciones altura de las estrellas.
Corrección por refracción	- 1.4'	Corrección entre alturas 33° 45' y 35° 39'.
Altura verdadera	35° 02.0'	

2.2 Cálculo del Tiempo Universal

Nombre	Dato	Origen en el Almanaque Náutico
Longitud estimada	79° 40'W	
Meridiano central más cercano	75° W	
TML-Tiempo Medio Local	05 h 30 m 15 s	
Hora calculada	10h 30m	Tabla E. Conversión TML TU. Longitud Oeste. Columna 75°, fila 05 h.
TU Tiempo Universal	10 h 30 m 15 s	

2.3 Cálculo de Ángulo Horario Local (LHA)

Nombre	Dato	Origen en el Almanaque Náutico
Fecha	01/Ago/2015	
Tiempo Universal (TU)	10 h 3 0m 15 s	
GHA-Ángulo Horario de Greenwich de Aries (10 h)	99° 41.8'	Tablas G. Tablas diarias de coordenadas y tiempos. Columna Aries, fila 10 h.
GHA de Aries (30 m 15 s)	7° 35.0'	Tablas H. Incrementos y correcciones para los minutos. Bloque 30 m, columna Aries, fila 15 s.
SHA - Ángulo Horario Sideral (Capella)	280° 33.0'	Tablas G. Tablas diarias de coordenadas y tiempos. Columnas estrellas.
GHA total del astro	387° 49.8'	GHA h + GHA m/s + SHA (109.8' = 1° 49.8')
Longitud asumida	- 79° 49.8'	Se igualan los minutos a los minutos del GHA, teniendo en cuenta su mayor proximidad a la posición estimada. Si es al Oeste se resta, al Este se suma.
Ángulo Horario Local(LHA)	308° 00.0'	

2.4 Cálculo de la declinación

Nombre	Dato	Origen en el Almanaque Náutico
Fecha	01/ago/2015	
TU-Tiempo Universal	10h 30m 15s	
Declinación de Capella	N 46° 1.0'	Tablas G. Tablas diarias de coordenadas y tiempos. Columna Estrellas, fila de Capella

3. Cálculos de las horas del crepúsculo de la observación vespertino y matutino, orto y ocaso del Sol

Fecha: 01 de agosto del año 2015
 Posición estimada: latitud 12° 45' N y longitud 65° 35' W
 Requerimientos: Hora del crepúsculo de la observación matutino
 Hora del orto del Sol
 Hora del ocaso del Sol
 Hora del crepúsculo de la observación vespertino

3.1 Datos por latitud

Lat.	Crepúsculo observación matutino	Orto	Ocaso	Crepúsculo observación matutino	Origen en el Almanaque Náutico
	h m	h m	h m	h m	
N 13°	05 14	05 50	18 27	19 02	Datos por latitud. Tablas G. Tablas diarias de coordenadas y tiempos. Columnas crepúsculos, fila de Lat. N 13°. (Latitud más cercana).

3.2 Cálculo corrección por longitud

Nombre	Dato	Origen en el Almanaque Náutico
Longitud estimada	65° 35' W	
Meridiano central más cercano	- 60° 00' W	
Diferencia de longitud	5° 35'	
Tiempo a corregir	22 m 20 s	Tabla F. Diferencia de longitud-tiempo. Columna 5°, fila 35'

3.3 Tiempos locales

Lat.	Crepúsculo observación matutino	Orto	Ocaso	Crepúsculo observación matutino	Explicación
	h m s	h m s	h m s	h m s	
N 13°	05 14 00	05 50 00	18 27 00	19 02 00	Datos por latitud
	+ 22 20	+ 22 20	+ 22 20	+ 22 20	Corrección por longitud
	05 36 20	06 12 20	18 49 20	19 24 20	Holas locales correspondientes