



A

S E T T

O F

Correct Astronomical TABLES.



T A B L E S for finding the Longitude by Sea and Land.

A Table of the Depression or Dip of the Horison of the Sea for different Elevations of the Eye above the Surface.

Elevation of the Eye above the Sea in Feet.	Depression of the Horison of the Sea in Minutes.
1	1
4	2
10	3
17	4
27	5
39	6
53	7
69	8

A Table of the Refraction of the Heavenly Bodies at different Altitudes.

Apparent Altitude.	Refraction in Minutes.
0	33
0. 0	32
0. 4	31
0. 12	30
0. 19	
0. 27	29
0. 33	28
0. 40	27
0. 48	26
0. 56	25
1. 4	24
1. 13	23
1. 22	22
1. 32	21
1. 43	20
1. 55	19
2. 7	18
2. 21	17
2. 36	16
2. 53	15
3. 11	14
3. 32	13
3. 56	12
4. 24	11
4. 56	10
5. 36	9
6. 22	8
7. 23	7
8. 42	6
10. 30	5
13. 10	4
17. 28	3
25. 20	2
43. 34	1
51. 40	0 $\frac{3}{4}$
62. 20	0 $\frac{1}{2}$
75. 13	0 $\frac{1}{4}$
90. 0	0

A Table shewing how many Minutes the Water's Edge at any Land at a given Distance is depressed below the true Level for different Elevations of the Eye above the Surface of the Water.

Distance of the Land in Sea Miles.	Elevation of the Eye above the surface of the water in feet			
	10 F.	17 F.	27 F.	39 F.
$\frac{1}{4}$	22	38	61	88
$\frac{1}{2}$	11	19	30	44
$\frac{3}{4}$	8	13	20	29
1	6	10	15	22
$1\frac{1}{4}$	5	8	12	18
$1\frac{1}{2}$	4	7	11	15
2	3	5	8	12
$2\frac{1}{2}$	3	5	7	10
3	3	4	6	8
$3\frac{1}{2}$	3	4	6	7
4	3	4	5	7
5	3	4	5	6
6	3	4	5	6

A Catalogue of the Right Ascensions and Declinations of the principal fixed Stars of the 1st and 2d Magnitude, adapted to the Beginning of the Year 1765, with their Variations in ten Years.

Names of the Stars.	Character	Magnitude.	Right Ascension.	R. Asc. increasing in 10 years	Declination.	Dec. inc. or diminishes in 10 years.
			o ' "	' " "	o ' "	' " "
Extremity of the Wing of Pegafus, <i>Algenib</i> - - -	γ	2	0.17	7. 42	13. 53 N.	+3. 20
In the Head of the Phcenix - - - - -	α	2	3.39	7. 30	43. 35 S.	-3. 20
The bright Star in the Tail of the Whale - - -	β	2	7.57	7. 32	19. 17 S.	-3. 18
In the Girdle of Andromeda - - - - -	β	2	14. 9	8. 14	34. 22 N.	+3. 14
The Spring of the River Eridanus, <i>Achernar</i> - - -	α	1	22.14	5. 37	58. 26 S.	-3. 5
In the Jaw of the Whale - - - - -	α	2	42.30	7. 49	3. 9 N.	+2. 28
In the Head of Medusa, <i>Algol</i> - - - - -	β	2	43. 5	9. 36	40. 2 N.	+2. 26
The bright Star of Perseus - - - - -	α	2	46.55	10. 29	49. 0 N.	+2. 17
The South Eye of the Bull, <i>Aldebaran</i> - - - - -	α	1	65.37	8. 34	16. 1 N.	+1. 23
The bright Star in the left Shoulder of Auriga, <i>Capella</i>	α	1	74.50	11. 0	45. 44 N.	+0. 53
The bright Foot of Orion, <i>Rigel</i> - - - - -	β	1	75.42	7. 12	8. 29 S.	-0. 50
The North Horn of the Bull - - - - -	β	2	77.42	9. 27	28. 23 N.	+0. 43
The Western Shoulder of Orion - - - - -	γ	2	78. 8	8. 3	6. 7 N.	+0. 42
Bright Star in the Dove - - - - -	α	2	82.47	5. 30	34. 13 S.	-0. 25
The Eastern Shoulder of Orion - - - - -	α	1	85.37	8. 7	7. 21 N.	+0. 16
The bright Star in the Poop of the Ship Argo, <i>Canopus</i>	α	1	94.41	3. 21	52. 34 S.	+0. 16
The bright Star in the Dog's Mouth Sirius - - -	α	1	98.42	6. 43	16. 24 S.	+0. 30
In the Head of the Northern Twin Castor - - -	α	1	109.53	9. 41	32. 23 N.	-1. 7
The little Dog Procyon - - - - -	α	1	111.45	8. 0	5. 49 N.	-1. 13
In the Head of the Southern Twin Pollux - - -	β	1	112.44	9. 23	28. 35 N.	-1. 17
Bright Star in the Oars of the Ship Argo - - -	β	1	137.38	1. 52	68. 45 S.	+2. 28
The Heart of the female Hydra - - - - -	α	2	139. 1	7. 24	7. 39 S.	+2. 31
The Lyon's Heart, <i>Regulus</i> - - - - -	α	1	148.57	8. 6	13. 6 N.	-2. 51
The Northernmost Star in the Square of the great Bear	α	2	162.15	9. 44	63. 1 N.	-3. 10
The Lyon's Tail - - - - -	β	2	174.16	7. 47	15. 53 N.	-3. 19
The southernm. Star of the Crofiers, or the ft of the Crofs	α	1	183.26	8. 3	61. 48 S.	+3. 20
The Virgin's Spike - - - - -	α	1	198.13	7. 52	9. 55 S.	+3. 10
The last Star in the Tail of the great Bear - - -	η	2	204.34	6. 1	50. 30 N.	-3. 2
The Westernmost Foot of the Centaur - - - - -	β	2	206.52	10. 13	59. 13 S.	+2. 59
The bright Star in Bootes, <i>Arcturus</i> - - - - -	α	1	211.14	7. 3	20. 25 N.	-2. 52
The bright Star in the Eastern Foot of the Centaur	α	1	215.59	11. 1	59. 51 S.	+2. 42
The Southern Scale of Libra - - - - -	α	2	219.29	8. 16	15. 3 S.	+2. 35
The Northern Scale of Libra - - - - -	β	2	226. 6	8. 3	8. 30 S.	+2. 20
The bright Star of the Crown - - - - -	α	2	231.11	6. 20	27. 31 N.	-2. 6
The Northernmost Star in the Scorpion's Forehead	β	2	237.57	8. 40	19. 8 S.	+1. 47

A Continuation of the Table of the Right Ascensions and Declinations of the principal fixed Stars.

Names of the Stars.	Character.	Magnitude.	Right	R. Asc.	Declina-	Dec. inc.
			Ascen-	increaf-		
			fon.	ing in		nishes in
			o ' "	royears	o ' "	10 years.
The Scorpion's Heart, <i>Antares</i> - - - - -	α	1	243.45	9. 8	25. 53 S.	+1. 29
In the Eastern Knee of Ophiucus - - - - -	η	2	254. 14	8. 36	15. 25 S.	+0. 55
The Head of Ophiucus - - - - -	α	2	261. 0	6. 57	12. 45 N.	-0. 32
The bright Star of the Harp, <i>Lyra</i> - - - - -	α	1	277. 15	5. 3	38. 35 N.	+0. 25
The bright Star of the Eagle, <i>Atair</i> - - - - -	α	2	294. 50	7. 15	8. 16 N.	+1. 23
The Eye of the Peacock - - - - -	α	2	301. 44	12. 13	57. 28 S.	-1. 44
The Tail of the Swan - - - - -	α	2	308. 21	5. 7	44. 27 N.	+2. 4
The Westernmost Wing of the Crane - - - - -	α	2	328. 20	9. 56	48. 5 S.	-2. 50
In the Mouth of the Southern Fish, <i>Fomalhaut</i> - - - - -	α	1	341. 9	8. 21	30. 52 S.	-3. 9
In the Shoulder of Pegasus - - - - -	β	2	343. 6	7. 12	26. 49 N.	+3. 11
In the Wing of Pegasus, <i>Markab</i> - - - - -	α	1	343. 16	7. 27	13. 57 N.	+3. 12
The Head of Andromeda - - - - -	α	2	359. 4	7. 40	27. 47 N.	+3. 20

A Table to turn Degrees and Minutes of the Diurnal Motion into Hours, Minutes, and Seconds of Time.

D.	M.	D.	H.M.								
M.	S.	M.	M. S.								
1	4	16	1. 4	31	2. 4	46	3. 4	61	4. 4	76	5. 4
2	8	17	1. 8	32	2. 8	47	3. 8	62	4. 8	77	5. 8
3	12	18	1. 12	33	2. 12	48	3. 12	63	4. 12	78	5. 12
4	16	19	1. 16	34	2. 16	49	3. 16	64	4. 16	79	5. 16
5	20	20	1. 20	35	2. 20	50	3. 20	65	4. 20	80	5. 20
6	24	21	1. 24	36	2. 24	51	3. 24	66	4. 24	81	5. 24
7	28	22	1. 28	37	2. 28	52	3. 28	67	4. 28	82	5. 28
8	32	23	1. 32	38	2. 32	53	3. 32	68	4. 32	83	5. 32
9	36	24	1. 36	39	2. 36	54	3. 36	69	4. 36	84	5. 36
10	40	25	1. 40	40	2. 40	55	3. 40	70	4. 40	85	5. 40
11	44	26	1. 44	41	2. 44	56	3. 44	71	4. 44	86	5. 44
12	48	27	1. 48	42	2. 48	57	3. 48	72	4. 48	87	5. 48
13	52	28	1. 52	43	2. 52	58	3. 52	73	4. 52	88	5. 52
14	56	29	1. 56	44	2. 56	59	3. 56	74	4. 56	89	5. 56
15	60	30	2. 0	45	3. 0	60	4. 0	75	5. 0	90	6. 0

A Continuation of the Table to turn Degrees into Time.

D.	H.M.	D.	H.M.	D.	H.M.	D.	H.M.
95	6.20	170	11.20	245	16.20	320	21.20
100	6.40	175	11.40	250	16.40	325	21.40
105	7. 0	180	12. 0	255	17. 0	330	22. 0
110	7.20	185	12.20	260	17.20	335	22.20
115	7.40	190	12.40	265	17.40	340	22.40
120	8. 0	195	13. 0	270	18. 0	345	23. 0
125	8.20	200	13.20	275	18.20	350	23.20
130	8.40	205	13.40	280	18.40	355	23.40
135	9. 0	210	14. 0	285	19. 0	360	24. 0
140	9.20	215	14.20	290	19.20		
145	9.40	220	14.40	295	19.40		
150	10. 0	225	15. 0	300	20. 0		
155	10.20	230	15.20	305	20.20		
160	10.40	235	15.40	310	20.40		
165	11. 0	240	16. 0	315	21. 0		

A Table of the Limits which the Difference of the Moon's and Star's Latitudes, if of the same Denomination, or Sum, if of contrary denomination, should not exceed.

Distance of the Moon from the Star, or the Difference of their Longitudes.	Limits for the Difference, or Sum, of the Latitudes.
0	0
10	1
15	2
20	2½
25	3½
30	4
35	5
40	6
45	7
50	8
60	12
70	20
80	36

A Catalogue of the Longitudes and Latitudes of twelve Zodiacal Stars of the first and second Magnitude, proper to measure the Distance of the Moon from, in order to determine the Longitude by Sea or Land. Adapted to the Beginning of the Year 1763.

N. B. The Longitude of the Stars in this Catalogue are to be corrected by the Addition of the Numbers in the next Table, and are also to be augmented at the Rate of 50'' ¼ for every Year after 1763.

Names of the Stars.	Cha.	Mag.	Longitude.				Latitude.			
			°	'	"	'''	°	'	"	'''
Extremity of the Wing of Pegafus, <i>Algenib</i> - - -	γ	2	0.	5.	51.	13	12.	35.	6	N.
The bright Star in the Jaw of the Whale - - -	α	2	1.	11.	0.	29	12.	36.	16	S.
The South Eye of the Bull, <i>Aldebaran</i> . A red Star	α	1	2.	6.	28.	31	5.	29.	9	S.
The North Horn of the Bull - - - - -	β	2	2.	19.	15.	46	5.	21.	55	N.
The Southernmost of the Twins, <i>Pollux</i> - - -	β	2	3.	19.	56.	50	6.	39.	55	N.
The Lyon's Heart, <i>Regulus</i> . A red Star - - -	α	1	4.	26.	32.	8	0.	27.	20	N.
The Virgin's Spike - - - - -	α	1	6.	20.	32.	1	2.	2.	9	S.
The Scorpion's Heart, <i>Antares</i> . A red Star - - -	α	1	8.	6.	26.	59	4.	32.	35	S.
In the Southern Part of the Bow of Sagittary - - -	ε	2	9.	1.	46.	7	11.	0.	25	S.
In the Head of Capricorn - - - - -	α	2	10.	0.	26.	53	6.	58.	29	N.
Bright Star in the mouth of the southern fish, <i>Fomalhaut</i>	α	1	11.	0.	31.	12	21.	6.	13	S.
In the Wing of Pegafus, <i>Markab</i> - - - - -	α	1	11.	20.	10.	53	19.	24.	46	N.

A Table of the Semidiameter and Hourly Motion of the Sun, and of the Corrections of the Longitudes of the Zodiacal Stars, for every Day in the Year.

Days of the Month.	Semidiameter of the Sun.	Hourly Motion of the Sun.	α Wing of Pegasus Algen.	α Jaw of the Whale.	α Bull's S. Eye, Aldebaran.	β North Horn of the Bull.	β South Twin Pollux.	α Lyon's Heart Regulus.	α The virgin's Spike.	α The Scorpions Heart Antares.	ϵ In Bow of Sagittary.	α Head of Capricorn.	α Mouth of S. Fish Fomalhaut.	α Wing of Pegasus Mark.
Jan. 1	16. 21	2. 33	8	15	18	18	20	14	0	0	0	0	2	6
10	16. 21	2. 33	6	13	17	18	21	17	4	3	2	0	1	4
20	16. 20	2. 33	5	11	17	18	23	21	9	8	6	2	1	3
Feb. 1	16. 18	2. 32	2	8	14	16	22	23	14	12	9	3	0	1
10	16. 17	2. 32	1	6	12	14	22	25	18	16	12	5	0	0
20	16. 15	2. 31	0	5	11	13	22	27	23	22	17	9	2	1
Mar. 1	16. 13	2. 30	0	3	8	11	21	27	26	26	21	12	3	1
10	16. 10	2. 29	0	1	6	9	19	27	29	30	25	15	5	2
20	16. 7	2. 29	1	1	5	7	18	28	33	35	30	20	9	4
Apr. 1	16. 4	2. 28	2	0	2	4	15	26	35	40	35	25	12	6
10	16. 2	2. 27	5	0	2	3	14	26	37	44	40	30	16	10
20	15. 59	2. 26	7	0	1	2	12	24	38	47	44	34	20	13
May 1	15. 56	2. 25	10	1	0	0	9	21	38	50	49	39	25	16
10	15. 54	2. 25	14	3	1	1	8	20	38	53	53	44	30	21
20	15. 53	2. 24	17	5	1	0	6	18	37	55	56	48	34	25
June 1	15. 51	2. 23	23	9	3	1	5	16	37	57	60	53	39	31
10	15. 50	2. 23	27	12	5	2	5	14	35	57	61	56	44	35
20	15. 49	2. 23	31	15	7	3	4	12	33	57	63	59	48	39
July 1	15. 49	2. 23	36	20	10	6	5	11	32	58	65	63	53	45
10	15. 49	2. 23	40	23	13	9	6	10	30	57	65	65	56	48
20	15. 50	2. 23	44	28	17	11	7	10	28	55	65	66	59	52
Aug. 1	15. 51	2. 23	50	33	22	16	10	10	26	54	65	68	63	57
10	15. 53	2. 24	53	37	26	20	12	10	24	52	64	68	64	60
20	15. 55	2. 25	58	42	31	25	16	12	23	51	63	69	67	63
Sept. 1	15. 57	2. 25	61	47	36	30	20	13	21	48	61	68	68	66
10	15. 59	2. 26	63	51	40	34	24	15	20	46	59	66	68	67
20	16. 2	2. 27	66	56	45	39	29	19	21	45	57	65	69	69
Oct. 1	16. 5	2. 28	67	59	50	43	33	22	21	43	55	63	68	69
10	16. 7	2. 28	69	62	54	48	38	26	22	42	54	62	68	70
20	16. 10	2. 29	69	64	58	52	42	30	23	41	52	60	66	69
Nov. 1	16. 13	2. 30	69	67	62	57	48	36	26	40	50	58	64	68
10	16. 15	2. 31	68	68	64	60	52	40	27	40	49	56	62	67
20	16. 17	2. 32	66	68	66	63	56	44	31	40	47	54	60	64
Dec. 1	16. 19	2. 32	65	69	68	66	61	50	36	42	48	52	58	63
10	16. 20	2. 31	63	68	69	67	64	54	40	44	48	51	56	60
20	16. 21	2. 33	61	67	69	69	68	60	45	47	49	51	54	59
31	16. 21	2. 33	58	65	68	68	70	64	50	50	50	50	52	56

Tables of the Sun and Moon.

Tables of the Sun for the Meridian of the Royal Observatory at Greenwich.

Epochs of the Sun's mean Longitude for the Beginning of the Year.			Motion of the Sun for Days of the Month.		Motion of the Sun for Hours, Min. and Sec.				
Years.	Mean Long. ° ' "	Long. Apog. ° ' "	Days	Mo. of Sun.	M. Ap.	S. " " "			
						M	S.	" " "	
						H	M	"	
L 1760	9. 10. 35. 8	3. 8. 47. 25	1	0. 59. 8	0	1	2. 28	25	1. 2
1761	9. 10. 20. 48	48. 30	2	1. 58. 17	0	2	4. 56	26	1. 4
1762	9. 10. 6. 28	49. 35	3	2. 57. 25	0	3	7. 23	27	1. 6
1763	9. 9. 52. 8	50. 40	4	3. 56. 33	1	4	9. 51	28	1. 9
L. 1764	9. 10. 36. 57	51. 45	5	4. 55. 42	1	5	12. 19	29	1. 11
1765	9. 10. 22. 37	52. 50	6					30	1. 14
1766	9. 10. 8. 17	53. 55	7	5. 54. 50	1	6	14. 47		
1767	9. 9. 53. 58	55. 0	8	6. 53. 58	1	7	17. 15	31	1. 16
L. 1768	9. 10. 38. 46	56. 5	9	7. 53. 7	1	8	19. 43	32	1. 19
1769	9. 10. 24. 26	57. 10	10	8. 52. 15	2	9	22. 11	33	1. 21
1770	9. 10. 10. 7	58. 15	11	9. 51. 23	2	10	24. 38	34	1. 24
			12					35	1. 26
1771	9. 9. 55. 47	3. 8. 59. 20	13	10. 50. 32	2	11	27. 6		
L. 1772	9. 10. 40. 35	3. 9. 0. 25	14	11. 49. 40	2	12	29. 34	36	1. 29
1773	9. 10. 26. 16	1. 30	15	12. 48. 48	2	13	32. 2	37	1. 31
1774	9. 10. 11. 56	2. 35	16	13. 47. 57	3	14	34. 30	38	1. 34
1775	9. 9. 57. 36	3. 40	17	14. 47. 5	3	15	36. 58	39	1. 36
			18					40	1. 38
L. 1776	9. 10. 42. 25	4. 45	19	15. 46. 13	3	16	39. 26		
1777	9. 10. 28. 5	5. 50	20	16. 45. 22	3	17	41. 53	41	1. 41
1778	9. 10. 13. 45	6. 55	21	17. 44. 30	3	18	44. 21	42	1. 43
1779	9. 9. 59. 25	8. 0	22	18. 43. 38	3	19	46. 49	43	1. 46
L. 1780	9. 10. 44. 14	9. 5	20	19. 42. 47	3	20	49. 17	44	1. 48
			21					45	1. 51
			22	20. 41. 55	4	21	51. 45		
			23	21. 41. 3	4	22	54. 13	46	1. 53
			24	22. 40. 12	4	23	56. 40	47	1. 56
			25	23. 39. 20	4	24	59. 8	48	1. 58
			26	24. 38. 28	4			49	2. 1
			27					50	2. 3
			28	25. 37. 37	5				
			29	26. 36. 45	5			51	2. 6
			30	27. 35. 53	5			52	2. 8
Jan.	0. 0. 0. 0	0	29	28. 35. 2	5			53	2. 11
Feb.	1. 0. 33. 18	5	30	29. 34. 10	5			54	2. 13
March	1. 28. 9. 11	10			5			55	2. 15
			31	1. 0. 33. 18	1				
April	2. 28. 42. 30	16						56	2. 18
May	3. 28. 16. 40	21						57	2. 20
June	4. 28. 49. 58	27						58	2. 23
								59	2. 25
July	5. 28. 24. 8	32						60	2. 28
August	6. 28. 57. 26	38							
Sept.	7. 29. 30. 44	43							
October	8. 29. 4. 54	49							
Nov.	9. 29. 38. 12	54							
Dec.	10. 29. 12. 22	59							

In the Months of January and Feb. in Leap Year, compute for the Day preceding the given Day.

[VII]

Equation of the Sun's Center.
Argum. The mean Anomaly of the Sun.

	0		1		2	
	—	Diff.	—	Diff.	—	Diff.
0	0. 0. 0	1. 59	0. 56. 43	1. 42	1. 38. 58	1. 1 30
1	0. 1. 59	1. 59	0. 58. 25	1. 41	1. 39. 59	0. 59 29
2	0. 3. 58	1. 58	1. 0. 6	1. 41	1. 40. 58	0. 57 28
3	0. 5. 56	1. 58	1. 1. 47	1. 40	1. 41. 55	0. 55 27
4	0. 7. 54	1. 58	1. 3. 27	1. 39	1. 42. 50	0. 54 26
5	0. 9. 52	1. 58	1. 5. 6	1. 38	1. 43. 44	0. 52 25
6	0. 11. 50	1. 58	1. 6. 44	1. 37	1. 44. 36	0. 50 24
7	0. 13. 48	1. 57	1. 8. 21	1. 36	1. 45. 26	0. 48 23
8	0. 15. 45	1. 57	1. 9. 57	1. 34	1. 46. 14	0. 46 22
9	0. 17. 42	1. 57	1. 11. 31	1. 33	1. 47. 0	0. 44 21
10	0. 19. 39	1. 57	1. 13. 4	1. 32	1. 47. 44	0. 42 20
11	0. 21. 36	1. 56	1. 14. 36	1. 30	1. 48. 26	0. 40 19
12	0. 23. 32	1. 56	1. 16. 6	1. 29	1. 49. 6	0. 38 18
13	0. 25. 28	1. 55	1. 17. 35	1. 27	1. 49. 44	0. 36 17
14	0. 27. 23	1. 55	1. 19. 2	1. 26	1. 50. 20	0. 35 16
15	0. 29. 18	1. 54	1. 20. 28	1. 25	1. 50. 55	0. 33 15
16	0. 31. 12	1. 54	1. 21. 53	1. 23	1. 51. 28	0. 31 14
17	0. 33. 6	1. 53	1. 23. 16	1. 22	1. 51. 59	0. 29 13
18	0. 34. 59	1. 53	1. 24. 38	1. 20	1. 52. 28	0. 27 12
19	0. 36. 52	1. 52	1. 25. 58	1. 19	1. 52. 55	0. 24 11
20	0. 38. 44	1. 51	1. 27. 17	1. 17	1. 53. 19	0. 22 10
21	0. 40. 35	1. 51	1. 28. 34	1. 16	1. 53. 41	0. 20 9
22	0. 42. 26	1. 50	1. 29. 50	1. 14	1. 54. 1	0. 18 8
23	0. 44. 16	1. 49	1. 31. 4	1. 13	1. 54. 19	0. 16 7
24	0. 46. 5	1. 49	1. 32. 17	1. 11	1. 54. 35	0. 15 6
25	0. 47. 54	1. 48	1. 33. 28	1. 9	1. 54. 50	0. 12 5
26	0. 49. 42	1. 47	1. 34. 37	1. 8	1. 55. 2	0. 10 4
27	0. 51. 29	1. 46	1. 35. 45	1. 6	1. 55. 12	0. 8 3
28	0. 53. 15	1. 45	1. 36. 51	1. 4	1. 55. 20	0. 6 2
29	0. 54. 0	1. 43	1. 37. 55	1. 2	1. 55. 26	0. 3 1
30	0. 56. 43		1. 38. 58		1. 55. 29	0. 0 0
	+		+		+	
	11		10		9	

[VIII]

Equation of the Sun's Center.									
Argum. The mean Anomaly of the Sun.									
	3			4			5		
	—	Diff.	"	—	Diff.	"	—	Diff.	"
	0	1	"	0	"	"	0	"	"
0	I. 55. 29	o. 1		I. 41. 4	I. 0		O. 58. 49	I. 47	30
1	I. 55. 30	o. 1		I. 40. 4	I. 2		O. 57. 2	I. 48	29
2	I. 55. 29	o. 3		I. 39. 2	I. 4		O. 55. 14	I. 49	28
3	I. 55. 26	o. 5		I. 37. 58	I. 6		O. 53. 25	I. 50	27
4	I. 55. 21	o. 6		I. 36. 52	I. 7		O. 51. 35	I. 50	26
5	I. 55. 15	o. 9		I. 35. 45	I. 10		O. 49. 45	I. 51	25
6	I. 55. 6	o. 11		I. 34. 35	I. 11		O. 47. 54	I. 52	24
7	I. 54. 55	o. 13		I. 33. 24	I. 13		O. 46. 2	I. 53	23
8	I. 54. 42	o. 16		I. 32. 11	I. 15		O. 44. 9	I. 55	22
9	I. 54. 26	o. 18		I. 30. 56	I. 16		O. 42. 14	I. 56	21
10	I. 54. 8	o. 20		I. 29. 40	I. 18		O. 40. 18	I. 56	20
11	I. 53. 48	o. 22		I. 28. 22	I. 20		O. 38. 22	I. 57	19
12	I. 53. 26	o. 24		I. 27. 2	I. 21		O. 36. 25	I. 57	18
13	I. 53. 2	o. 26		I. 25. 41	I. 23		O. 34. 28	I. 58	17
14	I. 52. 36	o. 27		I. 24. 18	I. 25		O. 32. 30	I. 59	16
15	I. 52. 9	o. 30		I. 22. 53	I. 26		O. 30. 31	I. 59	15
16	I. 51. 39	o. 32		I. 21. 27	I. 28		O. 28. 32	2. 0	14
17	I. 51. 7	o. 34		I. 19. 59	I. 29		O. 26. 32	2. 0	13
18	I. 50. 33	o. 36		I. 18. 30	I. 31		O. 24. 32	2. 1	12
19	I. 49. 57	o. 39		I. 16. 59	I. 32		O. 22. 31	2. 2	11
20	I. 49. 18	o. 41		I. 15. 27	I. 34		O. 20. 29	2. 2	10
21	I. 48. 37	o. 43		I. 13. 53	I. 35		O. 18. 27	2. 2	9
22	I. 47. 54	o. 44		I. 12. 18	I. 37		O. 16. 25	2. 2	8
23	I. 47. 10	o. 46		I. 10. 41	I. 38		O. 14. 23	2. 3	7
24	I. 46. 24	o. 48		I. 9. 3	I. 39		O. 12. 20	2. 3	6
25	I. 45. 36	o. 50		I. 7. 24	I. 40		O. 10. 17	2. 3	5
26	I. 44. 46	o. 52		I. 5. 44	I. 42		O. 8. 14	2. 3	4
27	I. 43. 54	o. 54		I. 4. 2	I. 43		O. 6. 11	2. 3	3
28	I. 43. 0	o. 57		I. 2. 19	I. 44		O. 4. 8	2. 4	2
29	I. 42. 3	o. 59		I. 0. 35	I. 46		O. 2. 4	2. 4	1
30	I. 41. 4			O. 58. 49			O. 0. 0		0
	+			+			+		
	8			7			6		

A Table of the Equation of Time.

Longitude of the Sun.

S.	0	1	2	3	4	5	6	7	8	9	10	11
	±	-	+	+	+	±	-	-	-	+	+	+
D	''	''	''	''	''	''	''	''	''	''	''	''
0	7.36	1.9	3.51	1.13	5.57	2.20	7.38	15.31	13.33	1.11	11.28	14.19
1	7.17	1.23	3.47	1.26	5.59	2.4	7.58	15.39	13.17	0.42	11.45	14.13
2	6.58	1.36	3.42	1.40	6.0	1.48	8.19	15.46	13.0	-12	12.1	14.6
3	6.39	1.48	3.37	1.53	6.1	1.31	8.40	15.52	12.42	+17	12.17	13.59
4	6.20	2.00	3.32	2.7	6.1	1.14	9.1	15.57	12.23	0.46	12.32	13.51
5	6.1	2.11	3.26	2.20	6.0	0.56	9.21	16.2	12.4	1.16	12.46	13.43
6	5.42	2.22	3.19	2.33	5.59	0.38	9.41	16.6	11.44	1.45	12.59	13.34
7	5.24	2.32	3.12	2.45	5.57	0.20	10.1	16.9	11.23	2.14	13.12	13.24
8	5.5	2.42	3.4	2.58	5.54	+1	10.20	16.11	11.1	2.43	13.24	13.14
9	4.47	2.51	2.56	3.11	5.51	-18	10.39	16.13	10.39	3.11	13.35	13.3
10	4.28	3.0	2.47	3.23	5.47	0.37	10.57	16.13	10.16	3.39	13.45	12.51
11	4.9	3.8	2.38	3.35	5.42	0.57	11.15	16.13	9.53	4.7	13.54	12.39
12	3.50	3.16	2.29	3.46	5.37	1.17	11.33	16.12	9.29	4.35	14.2	12.27
13	3.32	3.23	2.19	3.58	5.31	1.38	11.51	16.10	9.5	5.2	14.9	12.14
14	3.13	3.30	2.8	4.9	5.24	1.58	12.8	16.7	8.40	5.29	14.16	12.0
15	2.55	3.36	1.57	4.19	5.17	2.19	12.25	16.4	8.14	5.56	14.22	11.46
16	2.37	3.41	1.46	4.29	5.9	2.40	12.41	16.0	7.48	6.22	14.27	11.31
17	2.19	3.46	1.35	4.39	5.1	3.1	12.57	15.55	7.22	6.48	14.31	11.16
18	2.1	3.50	1.23	4.48	4.52	3.22	13.12	15.49	6.55	7.13	14.35	11.1
19	1.43	3.53	1.11	4.57	4.43	3.44	13.27	15.42	6.28	7.37	14.38	10.46
20	1.26	3.56	0.59	5.5	4.33	4.5	13.42	15.35	6.0	8.1	14.40	10.30
21	1.9	3.58	0.46	5.13	4.22	4.26	13.56	15.26	5.32	8.24	14.41	10.14
22	0.52	4.0	0.34	5.20	4.11	4.47	14.9	15.17	5.4	8.47	14.42	9.58
23	0.36	4.1	0.21	5.27	3.59	5.9	14.21	15.7	4.36	9.9	14.41	9.41
24	0.20	4.1	-8	5.33	3.46	5.30	14.33	14.56	4.8	9.31	14.40	9.24
25	+4	4.1	+5	5.39	3.33	5.52	14.44	14.44	3.39	9.33	14.39	9.6
26	-11	4.0	0.19	5.44	3.19	6.13	14.55	14.31	3.10	10.14	14.37	8.48
27	0.26	3.59	0.32	5.48	3.4	6.35	15.5	14.17	2.41	10.34	14.34	8.30
28	0.40	3.57	0.46	5.52	2.50	6.56	15.14	14.3	2.11	10.53	14.30	8.12
29	0.55	3.54	0.59	5.55	2.35	7.17	15.23	13.48	1.41	11.11	14.25	7.54
30	1.9	3.51	1.13	5.57	2.20	7.38	15.31	13.33	1.11	11.28	14.19	7.36

The Equations marked + are to be added to apparent Time; and those marked - are to be subtracted from apparent Time to find mean time.

Tables of the Moon for the Meridian of the Royal Observatory at Greenwich.

Epochs of the Moon's mean Longitude, Mean Anomaly and Longitude of ascending Node, for the Beginning of the Year.				Mean Motion of the Moon, Motion of mean Anomaly, and Node for Days of the Month.			
Years.	Mean Lo.)	Mean An.)	Long. of ♂	Days.	Mean Mo.)	Mo. Mn An.)	Motion of ♂
	s o "	s o "	s o "		s o "	s o "	o "
L. 1760	2.21.44.59	7.13.50.27	2.26.52.6	1	0.13.10.35	0.13.3.54	0.3.11
1761	7.1.8.4	10.12.33.10	2.7.32.25	2	0.26.21.10	0.26.7.48	0.6.21
1762	11.10.31.9	1.11.16.53	1.18.12.43	3	1.9.31.45	1.9.11.42	0.9.32
1763	3.19.54.15	4.10.0.6	0.28.53.2	4	1.22.42.20	1.22.15.36	0.12.43
L. 1764	8.12.27.55	7.21.47.13	0.9.30.10	5	2.5.52.55	2.5.19.30	0.15.53
1765	0.21.51.0	10.20.30.26	11.20.10.29	6	2.19.3.30	2.18.23.24	0.19.4
1766	5.1.14.6	1.19.13.39	11.0.50.48	7	3.2.14.5	3.1.27.18	0.22.14
1767	9.10.37.11	4.17.56.52	10.11.31.6	8	3.15.24.40	3.14.31.12	0.25.25
L. 1768	2.3.10.51	7.29.13.59	9.22.8.15	9	3.28.35.15	3.27.35.6	0.28.36
1769	6.12.33.57	10.28.27.12	9.2.48.33	10	4.11.45.50	4.10.39.0	0.31.46
1770	10.21.57.2	1.27.10.25	8.13.28.52	11	4.24.56.25	4.23.42.53	0.34.57
1771	3.1.20.7	4.25.53.38	7.24.9.11	12	5.8.7.0	5.6.46.47	0.38.7
L. 1772	7.23.53.48	8.7.40.45	7.4.46.19	13	5.21.17.35	5.19.50.41	0.41.18
1773	0.3.16.53	11.6.23.58	6.15.26.38	14	6.4.28.10	6.2.51.35	0.44.29
1774	4.12.39.58	2.5.7.11	5.26.6.57	15	6.17.38.45	6.15.58.29	0.47.40
1775	8.22.3.4	5.3.50.24	5.6.47.15	16	7.0.49.20	6.29.2.23	0.50.50
L. 1776	1.14.36.44	8.15.37.31	4.17.24.23	17	7.13.59.55	7.12.6.17	0.54.1
1777	5.23.59.49	11.14.20.41	3.28.4.42	18	7.27.10.30	7.25.10.11	0.57.11
1778	10.3.22.55	2.13.3.57	3.8.45.1	19	8.10.21.6	8.8.14.5	1.0.22
1779	2.12.46.0	5.11.47.10	2.19.25.20	20	8.23.31.41	8.21.17.59	1.3.53
L. 1780	7.5.19.41	8.23.34.17	2.0.2.28	21	9.6.42.16	9.4.21.53	1.6.43
				22	9.19.52.51	9.17.25.47	1.9.54
				23	10.3.3.26	10.0.29.41	1.13.5
				24	10.16.14.1	10.13.33.35	1.16.15
				25	10.29.24.36	10.26.37.29	1.19.26
				26	11.12.35.11	11.9.41.23	1.22.36
				27	11.25.45.46	11.22.45.17	1.25.47
Jan.	0.0.0.0	0.0.0.0	0.0.0	28	0.8.56.21	0.5.49.11	1.28.58
Feb.	1.18.28.6	1.15.0.53	1.38.30	29	0.22.6.56	0.18.53.5	1.32.8
March	1.27.24.27	1.20.50.3	3.7.27	30	1.5.17.31	1.1.56.59	1.35.19
				31	1.18.28.6	1.15.0.53	1.38.30
April	3.15.52.33	3.5.50.56	4.45.57				
May	4.21.10.3	4.7.47.54	6.21.16				
June	6.9.38.9	5.22.48.47	7.59.46				
July	7.14.55.40	6.24.45.46	9.35.5				
August	9.3.23.46	8.9.46.38	11.13.34				
Sept.	10.21.51.52	9.24.47.31	12.52.4				
October	11.27.9.23	10.26.44.29	14.27.23				
Nov.	1.15.37.29	0.11.45.22	16.5.53				
Dec.	2.20.54.59	1.13.42.20	17.41.12				

In the Months of January and February in Leap-Year, compute for the Day preceding the given Day.

A Table of the mean Motions of the Moon, Mean Anomaly, and Node for Hours, Minutes and Seconds.

	Mean Mo- tion of the Moon.	Motion of mean A- nomaly.	Motion of		Mean Mo- tion of the Moon.	Motion of mean A- nomaly.	Motion of
	° ' " iv	° ' " iv	° ' " iv		° ' " iv	° ' " iv	° ' " iv
Ho.	o ' "	o ' "	o ' "	Ho.	o ' "	o ' "	o ' "
0	0 0 0	0 0 0	0 0 0	30	16 28 14	16 19 52	0 3 58
1	0 32 56	0 32 40	0 0 8	31	17 1 10	16 52 32	0 4 6
2	1 5 53	1 5 19	0 0 16	32	17 34 7	17 25 12	0 4 14
3	1 38 49	1 37 59	0 0 24	33	18 7 3	17 57 52	0 4 22
4	2 11 46	2 10 39	0 0 32	34	18 40 0	18 30 31	0 4 30
5	2 44 42	2 43 19	0 0 40	35	19 12 56	19 3 11	0 4 38
6	3 17 39	3 15 58	0 0 48	36	19 45 53	19 35 51	0 4 46
7	3 50 35	3 48 38	0 0 56	37	20 18 49	20 8 31	0 4 54
8	4 23 32	4 21 18	0 1 4	38	20 51 45	20 41 10	0 5 2
9	4 56 28	4 53 55	0 1 11	39	21 24 42	21 13 50	0 5 10
10	5 29 25	5 26 37	0 1 19	40	21 57 38	21 46 30	0 5 18
11	6 2 21	5 59 17	0 1 27	41	22 30 35	22 19 10	0 5 26
12	6 35 18	6 31 57	0 1 35	42	23 3 31	22 51 49	0 5 34
13	7 8 14	7 4 37	0 1 43	43	23 36 28	23 24 29	0 5 42
14	7 41 10	7 37 16	0 1 51	44	24 9 24	23 57 9	0 5 50
15	8 14 7	8 9 56	0 1 59	45	24 42 21	24 29 49	0 5 57
16	8 47 3	8 42 36	0 2 7	46	25 15 17	25 2 28	0 6 5
17	9 20 0	9 15 16	0 2 15	47	25 48 14	25 35 8	0 6 13
18	9 52 56	9 47 55	0 2 23	48	26 21 10	26 7 48	0 6 21
19	10 25 53	10 20 35	0 2 31	49	26 54 6	26 40 28	0 6 29
20	10 58 49	10 53 15	0 2 39	50	27 27 3	27 13 7	0 6 37
21	11 31 46	11 25 55	0 2 47	51	27 59 59	27 45 47	0 6 45
22	12 4 42	11 58 34	0 2 55	52	28 32 56	28 18 27	0 6 53
23	12 37 39	12 31 14	0 3 3	53	29 5 52	28 51 7	0 7 1
24	13 10 35	13 3 54	0 3 11	54	29 38 49	29 23 46	0 7 9
25	13 43 32	13 36 34	0 3 19	55	30 11 46	29 56 26	0 7 17
26	14 16 28	14 9 13	0 3 27	56	30 44 42	30 29 6	0 7 25
27	14 49 24	14 41 53	0 3 34	57	31 17 38	31 1 46	0 7 33
28	15 22 21	15 14 33	0 3 42	58	31 50 35	31 34 25	0 7 41
29	15 55 17	15 47 13	0 3 50	59	32 23 31	32 7 5	0 7 49
30	16 28 14	16 19 52	0 3 58	60	32 56 28	32 39 45	0 7 57

Equations of the Moon.

I. For the Longitude of the Moon.

II. For the Long. of the Moon.

Arg. I. Mean Anomaly of the Sun.

Argum. II.

This Equation serves also for the Node and Double of it for the mean Anomaly.

Double Dist. $2a \odot +$ Argum. I.

I.							II.			
0	1	2	3	4	5	0	0	1	2	0
+	-	+	+	+	+	6	7	8		
+	-	+	+	+	+	+	+	+		
0	0	5	9	11	9	5	0	0	0	30
1	0	12	9	11	9	5	1	0	0	29
2	0	24	9	11	9	5	2	0	0	28
3	0	35	9	11	9	5	3	0	0	27
4	0	47	10	11	9	5	4	0	0	26
5	0	58	10	11	9	4	5	0	0	25
6	1	10	10	11	9	4	6	0	0	24
7	1	21	10	11	9	4	7	0	0	23
8	1	33	10	11	9	4	8	0	0	22
9	1	44	10	11	8	4	9	0	0	21
10	1	55	10	11	8	3	10	0	0	20
11	2	7	10	11	8	3	11	0	0	19
12	2	18	10	11	8	3	12	0	0	18
13	2	29	10	11	8	3	13	0	0	17
14	2	40	10	11	8	3	14	0	0	16
15	2	51	10	11	8	3	15	0	0	15
16	3	2	10	10	8	2	16	0	0	14
17	3	13	10	10	7	2	17	0	0	13
18	3	24	11	10	7	2	18	0	0	12
19	3	35	11	10	7	2	19	0	0	11
20	3	46	11	10	7	2	20	0	0	10
21	3	57	11	10	7	1	21	0	0	9
22	4	8	11	10	7	1	22	0	0	8
23	4	18	11	10	7	1	23	0	0	7
24	4	29	11	10	6	1	24	0	0	6
25	4	40	11	10	6	1	25	0	0	5
26	4	50	11	10	6	0	26	0	0	4
27	5	0	11	10	6	0	27	0	0	3
28	5	11	11	10	6	0	28	0	0	2
29	5	21	11	10	5	0	29	0	0	1
30	5	31	11	9	5	0	30	0	0	0
0	-	-	-	-	-	-	0	11	10	9
								+	+	+
								5	4	3

[XIII]

III. For Longitude of the ☽				IV. For Longitude of the ☽				V. For Longitude of the ☽					
Argum. III.				Argum. IV.				Argum. V.					
Double Dist. ☽e☉—Arg. I				Arg. II. — Mean Anomaly ☽				Arg. III.—Mean Anomaly ☽					
0	I	2		0	I	2		0	I	2			
—	—	—		+	+	+		+	+	+			
6	7	8		6	7	8		0	7	8			
+	+	+		—	—	—		—	—	—			
0	"	"	0	0	"	"	0	0	"	"	0		
0	0.	0.	0.31	0.54	30	0	0.	0.	0.	0.36	1. 2	30	
1	0.	1	0.32	0.54	29	1	0.	1	0.37	1. 3	29		
2	0.	2	0.33	0.55	28	2	0.	2	0.38	1. 3	28		
3	0.	3	0.34	0.55	27	3	0.	3	0.39	1. 4	27		
4	0.	4	0.35	0.56	26	4	0.	4	0.40	1. 4	26		
5	0.	5	0.36	0.56	25	5	0.	5	0.41	1. 5	25		
6	0.	6	0.37	0.56	24	6	0.	6	0.42	1. 5	24		
7	0.	7	0.38	0.57	23	7	0.	7	0.43	1. 6	23		
8	0.	8	0.38	0.57	22	8	0.	8	0.44	1. 6	22		
9	0.	9	0.39	0.58	21	9	0.	9	0.45	1. 7	21		
10	0.	10	0.40	0.58	20	10	0.	10	0.46	1. 7	20		
11	0.	11	0.41	0.58	19	11	0.	11	0.47	1. 8	19		
12	0.	12	0.42	0.59	18	12	0.	12	0.48	1. 8	18		
13	0.	13	0.42	0.59	17	13	0.	13	0.49	1. 9	17		
14	0.	14	0.43	1. 0	16	14	0.	14	0.50	1. 9	16		
15	0.	15	0.44	1. 0	15	15	0.	15	0.51	1. 10	15		
16	0.	16	0.45	1. 0	14	16	0.	16	0.52	1. 10	14		
17	0.	17	0.45	1. 0	13	17	0.	17	0.52	1. 10	13		
18	0.	18	0.46	1. 1	12	18	0.	18	0.53	1. 11	12		
19	0.	19	0.47	1. 1	11	19	0.	19	0.54	1. 11	11		
20	0.	20	0.48	1. 1	10	20	0.	20	0.55	1. 11	10		
21	0.	21	0.48	1. 1	9	21	0.	21	0.56	1. 11	9		
22	0.	22	0.49	1. 1	8	22	0.	22	0.56	1. 11	8		
23	0.	23	0.50	1. 1	7	23	0.	23	0.57	1. 11	7		
24	0.	24	0.50	1. 2	6	24	0.	24	0.58	1. 12	6		
25	0.	25	0.51	1. 2	5	25	0.	25	0.59	1. 12	5		
26	0.	26	0.51	1. 2	4	26	0.	26	0.59	1. 12	4		
27	0.	27	0.52	1. 2	3	27	0.	27	1. 0	1. 12	3		
28	0.	28	0.52	1. 2	2	28	0.	28	1. 1	1. 12	2		
29	0.	29	0.53	1. 2	1	29	0.	29	1. 1	1. 12	1		
30	0.	30	0.54	1. 2	0	30	0.	30	1. 2	1. 12	0		
c	+	+	+	0	0	—	—	—	0	0	—	—	—
	11	10	9			11	10	9			11	10	9
	—	—	—				+	+			+	+	+
	5	4	3			5	4	3			5	4	3

[XIV]

VI. For Longitude of \mathcal{D}				VII. For Longitude of \mathcal{D}				VIII. For Longitude of \mathcal{D}			
Argum. VI. Double Dist. $\mathcal{D} a \odot +$ Mean Anomaly \mathcal{D}				Argum. VII. Double Dist. $\mathcal{D} a \ominus -$ Mean Anomaly \mathcal{D}				Argum. VIII. Mean Anomaly $\mathcal{D} -$ Arg. I.			
0	1	2		0	1	2		0	1	2	
+	+	+		+	+	+		+	+	+	
6	7	8		6	7	8		6	7	8	
-	-	-		-	-	-		-	-	-	
0	0	0	0	0	0	0	0	0	0	0	0
1	0.2	0.45	1.18	1	0.1	0.29	0.50	1	0.1	0.20	0.35
2	0.3	0.46	1.19	2	0.2	0.30	0.50	2	0.2	0.20	0.35
3	0.5	0.48	1.19	3	0.3	0.31	0.51	3	0.3	0.21	0.36
4	0.6	0.49	1.20	4	0.4	0.31	0.51	4	0.4	0.21	0.36
5	0.8	0.51	1.20	5	0.5	0.32	0.52	5	0.5	0.22	0.36
6	0.9	0.52	1.21	6	0.6	0.33	0.52	6	0.6	0.23	0.37
7	1.1	0.53	1.22	7	0.7	0.34	0.53	7	0.7	0.23	0.37
8	1.3	0.55	1.22	8	0.8	0.35	0.53	8	0.8	0.24	0.37
9	1.4	0.56	1.23	9	0.9	0.35	0.54	9	0.9	0.24	0.37
10	1.6	0.57	1.23	10	1.0	0.36	0.54	10	1.0	0.25	0.38
11	1.7	0.58	1.24	11	1.1	0.37	0.54	11	1.1	0.26	0.38
12	1.9	0.59	1.25	12	1.2	0.38	0.55	12	1.2	0.26	0.38
13	2.0	1.0	1.25	13	1.3	0.38	0.55	13	1.3	0.27	0.38
14	2.2	1.1	1.26	14	1.4	0.39	0.55	14	1.4	0.27	0.38
15	2.3	1.2	1.26	15	1.5	0.39	0.55	15	1.5	0.28	0.38
16	2.5	1.3	1.27	16	1.6	0.40	0.56	16	1.6	0.28	0.38
17	2.6	1.4	1.27	17	1.7	0.41	0.56	17	1.7	0.28	0.39
18	2.8	1.5	1.28	18	1.8	0.41	0.56	18	1.8	0.29	0.39
19	2.9	1.6	1.28	19	1.9	0.42	0.56	19	1.9	0.29	0.39
20	3.1	1.7	1.28	20	2.0	0.43	0.57	20	2.0	0.30	0.39
21	3.2	1.8	1.28	21	2.1	0.43	0.57	21	2.1	0.30	0.39
22	3.4	1.9	1.29	22	2.2	0.44	0.57	22	2.2	0.31	0.39
23	3.5	2.0	1.29	23	2.3	0.45	0.57	23	2.3	0.31	0.39
24	3.7	2.1	1.29	24	2.4	0.45	0.57	24	2.4	0.32	0.40
25	3.8	2.2	1.29	25	2.5	0.46	0.58	25	2.5	0.32	0.40
26	3.9	2.3	1.30	26	2.6	0.46	0.58	26	2.6	0.33	0.40
27	4.1	2.4	1.30	27	2.7	0.47	0.58	27	2.7	0.33	0.40
28	4.2	2.5	1.30	28	2.8	0.47	0.58	28	2.8	0.34	0.40
29	4.4	2.6	1.30	29	2.9	0.48	0.58	29	2.9	0.34	0.40
30	4.6	2.7	1.30	30	3.0	0.49	0.58	30	3.0	0.35	0.40
0	-	-	-	0	-	-	-	0	-	-	-
11	11	10	9	11	11	10	9	11	11	10	9
+	+	+		+	+	+		+	+	+	
5	4	3		5	4	3		5	4	3	

IX. For Longitude of \mathcal{D}					X. For Longitude of \mathcal{D}							
Argum IX.					Argum. X.							
Long \mathcal{D} —true Longit. \odot					Dist. $\mathcal{D} a \odot$ —Mean Anomaly \mathcal{D}							
0	1	2			0	1	2	3	4	5		
+	+	+			+	+	+	+	-	-		
6	7	8			+	+	+	+	-	-		
+	+	+										
0	1	2	3	4	0	1	2	3	4	5	6	7
00. 0	0. 41	0. 41	30		00. 0	3. 11	3. 22	0. 29	2. 32	2. 42	30	
10. 2	0. 41	0. 40	29		10. 8	3. 15	3. 19	0. 22	2. 35	2. 39	29	
20. 3	0. 42	0. 39	28		20. 15	3. 19	3. 15	0. 15	2. 39	2. 36	28	
30. 5	0. 43	0. 38	27		30. 23	3. 22	3. 11	0. 8	2. 42	2. 32	27	
40. 6	0. 43	0. 37	26		40. 30	3. 25	3. 7	0. 1	2. 45	2. 28	26	
50. 8	0. 44	0. 36	25		50. 38	3. 28	3. 3	0. 6	2. 48	2. 24	25	
60. 10	0. 44	0. 35	24		60. 45	3. 31	2. 58	0. 13	2. 51	2. 20	24	
70. 11	0. 45	0. 34	23		70. 53	3. 33	2. 53	0. 20	2. 53	2. 15	23	
80. 13	0. 45	0. 32	22		81. 0	3. 36	2. 48	0. 27	2. 55	2. 11	22	
90. 14	0. 46	0. 31	21		91. 8	3. 38	2. 43	0. 34	2. 57	2. 6	21	
100. 16	0. 46	0. 30	20		101. 15	3. 40	2. 38	0. 41	2. 59	2. 1	20	
110. 17	0. 46	0. 29	19		111. 22	3. 42	2. 32	0. 48	3. 0	1. 56	19	
120. 19	0. 47	0. 27	18		121. 29	3. 43	2. 27	0. 54	3. 1	1. 51	18	
130. 20	0. 47	0. 26	17		131. 36	3. 44	2. 21	1. 1	3. 2	1. 46	17	
140. 22	0. 47	0. 25	16		141. 43	3. 44	2. 16	1. 8	3. 3	1. 40	16	
150. 23	0. 47	0. 23	15		151. 50	3. 45	2. 10	1. 14	3. 4	1. 35	15	
160. 25	0. 47	0. 22	14		161. 56	3. 45	2. 4	1. 20	3. 4	1. 29	14	
170. 26	0. 47	0. 20	13		172. 3	3. 44	1. 58	1. 26	3. 3	1. 23	13	
180. 27	0. 47	0. 19	12		182. 9	3. 44	1. 51	1. 32	3. 3	1. 17	12	
190. 29	0. 46	0. 17	11		192. 15	3. 43	1. 45	1. 38	3. 2	1. 11	11	
200. 30	0. 46	0. 16	10		202. 21	3. 43	1. 38	1. 44	3. 2	1. 5	10	
210. 31	0. 46	0. 14	9		212. 26	3. 42	1. 32	1. 49	3. 1	0. 59	9	
220. 32	0. 45	0. 13	8		222. 32	3. 41	1. 25	1. 55	3. 0	0. 53	8	
230. 34	0. 45	0. 11	7		232. 37	3. 39	1. 18	2. 0	2. 59	0. 46	7	
240. 35	0. 44	0. 10	6		242. 43	3. 37	1. 11	2. 5	2. 57	0. 40	6	
250. 36	0. 44	0. 8	5		252. 48	3. 35	1. 4	2. 10	2. 55	0. 33	5	
260. 37	0. 43	0. 6	4		262. 53	3. 33	0. 57	2. 15	2. 53	0. 27	4	
270. 38	0. 43	0. 5	3		272. 58	3. 30	0. 50	2. 19	2. 50	0. 20	3	
280. 39	0. 42	0. 3	2		283. 2	3. 28	0. 43	2. 24	2. 48	0. 14	2	
290. 40	0. 41	0. 2	1		293. 7	3. 25	0. 36	2. 28	2. 45	0. 7	1	
300. 41	0. 41	0. 0	0		303. 11	3. 22	0. 29	2. 32	2. 42	0. 0	0	
0	-	-	0		0	-	-	+	-	+	0	
	11	10	9			-	-	+	-	+		
	-	-	-									
	6	5	3			11	10	9	8	7	6	

λ. For Longitude of γ. Equation of the Center.

Argum. XI.

Anomaly of the Moon corrected.

°	0				1				2				°
	—			Diff.	—			Diff.	—			Diff.	
	°	'	"		°	'	"		°	'	"		
0	0.	0.	0.	6. 11	2.	58.	33	5. 28	5.	16.	28	3. 27	30
1	0.	6.	11	6. 11	3.	4.	1	5. 25	5.	19.	55	3. 22	29
2	0.	12.	22	6. 10	3.	9.	26	5. 22	5.	23.	17	3. 17	28
3	0.	18.	32	6. 10	3.	14.	4	5. 19	5.	26.	34	3. 12	27
4	0.	24.	42	6. 10	3.	20.	7	5. 17	5.	29.	46	3. 7	26
5	0.	30.	52	6. 10	3.	25.	24	5. 14	5.	32.	53	3. 1	25
6	0.	37.	2	6. 9	3.	30.	30	5. 10	5.	35.	54	2. 55	24
7	0.	43.	11	6. 8	3.	35.	48	5. 7	5.	38.	49	2. 49	23
8	0.	49.	19	6. 8	3.	40.	55	5. 3	5.	41.	38	2. 43	22
9	0.	55.	27	6. 7	3.	45.	58	4. 59	5.	44.	21	2. 37	21
10	1.	1.	34	6. 6	3.	50.	57	4. 56	5.	46.	48	2. 31	20
11	1.	7.	40	6. 5	3.	55.	53	4. 52	5.	49.	29	2. 26	19
12	1.	13.	45	6. 3	4.	0.	45	4. 49	5.	51.	55	2. 20	18
13	1.	19.	48	6. 2	4.	5.	34	4. 45	5.	54.	15	2. 14	17
14	1.	25.	50	6. 2	4.	10.	19	4. 41	5.	56.	29	2. 8	16
15	1.	31.	52	6. 0	4.	15.	0	4. 37	5.	58.	37	2. 2	15
16	1.	37.	52	5. 58	4.	19.	37	4. 33	6.	0.	39	1. 55	14
17	1.	43.	50	5. 57	4.	24.	10	4. 28	6.	2.	34	1. 49	13
18	1.	49.	47	5. 55	4.	28.	38	4. 24	6.	4.	23	1. 43	12
19	1.	55.	42	5. 53	4.	33.	2	4. 20	6.	6.	6	1. 37	11
20	2.	1.	35	5. 51	4.	37.	22	4. 16	6.	7.	42	1. 30	10
21	2.	7.	26	5. 49	4.	41.	38	4. 11	0.	9.	13	1. 24	9
22	2.	13.	15	5. 47	4.	45.	49	4. 6	6.	10.	37	1. 17	8
23	2.	19.	2	5. 46	4.	49.	55	4. 2	6.	11.	54	1. 11	7
24	2.	24.	48	5. 44	4.	53.	57	3. 58	6.	13.	5	1. 5	6
25	2.	30.	27	5. 42	4.	57.	55	3. 53	6.	14.	10	0. 58	5
26	2.	30.	17	5. 39	5.	1.	48	3. 48	6.	15.	8	0. 51	4
27	2.	41.	53	5. 36	5.	5.	36	3. 43	6.	15.	59	0. 44	3
28	2.	47.	29	5. 33	5.	9.	19	3. 37	6.	16.	45	0. 37	2
29	2.	53.	2	5. 31	5.	12.	56	3. 32	0.	17.	2	0. 30	1
30	2.	58.	33		5.	16.	28		6.	17.	50		0
0	+				+								0
	11				10				9				

XI. for Longitude of Δ . Equation of the Center.

Argum. XI.

Anomaly of the Moon corrected.

o	3			4			5			o				
	—		Diff.	—		Diff.	—		Diff.					
	o	'	"	o	'	"	o	'	"					
0	6.	17.	50	0.	24	5.	39.	0	3.	21.	4	6.	0	30
1	6.	18.	14	0.	17	5.	35.	53	3.	15.	4	6.	3	29
2	6.	18.	31	0.	10	5.	32.	40	3.	9.	1	6.	7	28
3	6.	18.	41	0.	3	5.	29.	20	3.	2.	54	6.	11	27
4	6.	18.	44	0.	4	5.	25.	53	3.	27	2.	56.	43	26
5	6.	18.	40	0.	11	5.	22.	21	3.	32	2.	50.	28	25
6	6.	18.	29	0.	18	5.	18.	42	3.	39	2.	44.	9	24
7	6.	18.	11	0.	25	5.	14.	56	3.	46	2.	37.	47	23
8	6.	17.	46	0.	32	5.	11.	4	3.	52	2.	31.	21	22
9	6.	17.	14	0.	38	5.	7.	5	3.	59	2.	24.	51	21
10	6.	16.	36	0.	46	5.	2.	59	4.	6	2.	18.	18	20
11	6.	15.	50	0.	53	+	58.	47	4.	12	2.	11.	42	19
12	6.	14.	57	1.	0	4.	54.	29	4.	18	2.	5.	4	18
13	6.	13.	57	1.	7	4.	50.	5	4.	24	1.	58.	23	17
14	6.	12.	50	1.	14	4.	45.	36	4.	29	1.	51.	39	16
15	6.	11.	36	1.	21	4.	41.	1	4.	35	1.	44.	52	15
16	6.	10.	15	1.	28	+	36.	20	4.	41	1.	38.	3	14
17	6.	8.	47	1.	35	4.	31.	33	4.	47	1.	31.	12	13
18	6.	7.	12	1.	43	4.	26.	39	4.	54	1.	24.	18	12
19	6.	5.	29	1.	50	4.	21.	40	4.	59	1.	17.	23	11
20	6.	3.	39	1.	57	+	16.	34	5.	6	1.	10.	27	10
21	6.	1.	42	2.	4	+	11.	23	5.	11	1.	3.	29	9
22	5.	59.	38	2.	10	+	6.	7	5.	16	0.	56.	30	8
23	5.	57.	28	2.	17	+	0.	46	5.	21	0.	49.	29	7
24	5.	55.	11	2.	24	3.	55.	21	5.	25	0.	42.	27	6
25	5.	52.	47	2.	31	3.	49.	51	5.	30	0.	35.	23	5
26	5.	50.	16	2.	38	3.	44.	16	5.	35	0.	28.	19	4
27	5.	47.	38	2.	45	3.	38.	36	5.	40	0.	21.	15	3
28	5.	44.	53	2.	53	3.	32.	50	5.	46	0.	14.	10	2
29	5.	42.	0	3.	0	3.	27.	0	5.	50	0.	7.	5	1
30	5.	39.	0	3.	0	3.	21.	4	5.	56	0.	0.	0	0
o	+			+			+			o				
	8			7			6							

[XVIII]

XII. For Longitude of the Moon. Evection.

Argum. XII.

Double Diff. $\text{Pa}\odot$ corr.—Anom. D corr.

0	0				I				2				0
	—		Diff.		—		Diff.		—		Diff.		
	'	"	'	"	'	"	'	"	'	"	'	"	
0	0.	0.	0	I. 24	0.	39.	50	I. 12	I.	9.	22	O. 42	30
1	0.	1.	24	I. 23	0.	41.	2	I. 12	I.	10.	4	O. 41	29
2	0.	2.	47	I. 23	0.	42.	14	I. 11	I.	10.	45	O. 40	28
3	0.	4.	10	I. 23	0.	43.	25	I. 10	I.	11.	25	O. 39	27
4	0.	5.	33	I. 23	0.	44.	35	I. 9	I.	12.	4	O. 37	26
5	0.	6.	56	I. 23	0.	45.	44	I. 8	I.	12.	41	O. 36	25
6	0.	8.	19	I. 23	0.	46.	52	I. 7	I.	13.	17	O. 34	24
7	0.	9.	42	I. 23	0.	47.	59	I. 7	I.	13.	51	O. 33	23
8	0.	11.	5	I. 22	0.	49.	6	I. 6	I.	14.	24	O. 32	22
9	0.	12.	27	I. 22	0.	50.	12	I. 5	I.	14.	56	O. 31	21
10	0.	13.	49	I. 22	0.	51.	17	I. 4	I.	15.	27	O. 29	20
11	0.	15.	11	I. 22	0.	52.	21	I. 3	I.	15.	56	O. 28	19
12	0.	16.	33	I. 21	0.	53.	24	I. 2	I.	16.	24	O. 26	18
13	0.	17.	54	I. 21	0.	54.	26	I. 1	I.	16.	50	O. 25	17
14	0.	19.	15	I. 21	0.	55.	27	I. 1	I.	17.	15	O. 24	16
15	0.	20.	36	I. 20	0.	56.	28	I. 0	I.	17.	39	O. 22	15
16	0.	21.	56	I. 20	0.	57.	28	O. 58	I.	18.	1	O. 21	14
17	0.	23.	16	I. 19	0.	58.	26	O. 57	I.	18.	22	O. 19	13
18	0.	24.	35	I. 19	0.	59.	23	O. 56	I.	18.	41	O. 18	12
19	0.	25.	54	I. 19	I.	0.	19	O. 55	I.	18.	59	O. 17	11
20	0.	27.	13	I. 18	I.	1.	14	O. 54	I.	19.	16	O. 15	10
21	0.	28.	31	I. 18	I.	2.	8	O. 53	I.	19.	31	O. 14	9
22	0.	29.	49	I. 17	I.	3.	1	O. 52	I.	19.	45	O. 12	8
23	0.	31.	6	I. 17	I.	3.	53	O. 51	I.	19.	57	O. 11	7
24	0.	32.	23	I. 16	I.	4.	44	O. 49	I.	20.	8	O. 9	6
25	0.	33.	39	I. 15	I.	5.	33	O. 48	I.	20.	17	O. 8	5
26	0.	34.	54	I. 15	I.	6.	21	O. 47	I.	20.	25	O. 6	4
27	0.	36.	9	I. 14	I.	7.	8	O. 46	I.	20.	31	O. 5	3
28	0.	37.	23	I. 14	I.	7.	54	O. 45	I.	20.	36	O. 4	2
29	0.	38.	37	I. 13	I.	8.	39	O. 43	I.	20.	40	O. 2	1
30	0.	39.	50	I. 13	I.	9.	22	I.	I.	20.	42	O.	0
0	+				+				+				0
II				IO				9					

[XIX]

XII. For Longitude of the Moon. Evection.

Argum. XII.

Double Dist. $\Delta a \odot$ corr — Anom. Δ corr.

o	3				4				5				o
	—		Diff.		—		Diff.		—		Diff.		
	o	l	l	l	o	l	l	l	o	l	l	l	
0	l. 20. 42				l. 10. 24				o. 40. 52				30
1	l. 20. 43	o. 1			l. 9. 42	o. 42			o. 39. 38	l. 14			29
2	l. 20. 42	o. 1			l. 8. 58	o. 44			o. 38. 23	l. 15			28
3	l. 20. 39	o. 3			l. 8. 13	o. 45			o. 37. 7	l. 16			27
4	l. 20. 35	o. 4			l. 7. 27	o. 46			o. 35. 50	l. 17			26
5	l. 20. 30	o. 5			l. 6. 40	o. 47			o. 34. 33	l. 17			25
6	l. 20. 23	o. 7			l. 5. 52	o. 48			o. 33. 15	l. 18			24
7	l. 20. 15	o. 8			l. 5. 2	o. 50			o. 31. 57	l. 18			23
8	l. 20. 5	o. 10			l. 4. 11	o. 51			o. 30. 38	l. 19			22
9	l. 19. 54	o. 11			l. 3. 18	o. 53			o. 29. 19	l. 19			21
10	l. 19. 41	o. 13			l. 2. 24	o. 54			o. 27. 59	l. 20			20
11	l. 19. 27	o. 14			l. 1. 29	o. 55			o. 26. 38	l. 21			19
12	l. 19. 11	o. 16			l. 0. 33	o. 56			o. 25. 17	l. 21			18
13	l. 18. 54	o. 17			o. 59. 36	o. 57			o. 23. 55	l. 22			17
14	l. 18. 35	o. 19			o. 58. 38	o. 58			o. 22. 33	l. 22			16
15	l. 18. 15	o. 20			o. 57. 39	o. 59			o. 21. 11	l. 22			15
16	l. 17. 53	o. 22			o. 56. 39	l. 0			o. 19. 48	l. 23			14
17	l. 17. 30	o. 23			o. 55. 38	l. 1			o. 18. 25	l. 23			13
18	l. 17. 6	o. 24			o. 54. 36	l. 2			o. 17. 1	l. 24			12
19	l. 16. 40	o. 26			o. 53. 32	l. 4			o. 15. 37	l. 24			11
20	l. 16. 13	o. 27			o. 52. 27	l. 5			o. 14. 13	l. 24			10
21	l. 15. 41	o. 29			o. 51. 21	l. 6			o. 12. 48	l. 25			9
22	l. 15. 14	o. 30			o. 50. 15	l. 6			o. 11. 23	l. 25			8
23	l. 14. 43	o. 31			o. 49. 8	l. 7			o. 9. 58	l. 25			7
24	l. 14. 10	o. 33			o. 48. 0	l. 8			o. 8. 33	l. 25			6
25	l. 13. 36	o. 34			o. 46. 51	l. 9			o. 7. 8	l. 25			5
26	l. 13. 0	o. 36			o. 45. 41	l. 10			o. 5. 45	l. 25			4
27	l. 12. 23	o. 37			o. 44. 30	l. 11			o. 4. 15	l. 25			3
28	l. 11. 45	o. 38			o. 43. 18	l. 12			o. 2. 52	l. 26			2
29	l. 11. 5	o. 40			o. 42. 5	l. 13			o. 1. 26	l. 26			1
30	l. 10. 24	o. 41			o. 40. 52	l. 13			o. 0. 0	l. 26			0
o	+				+				+				o
		8				7				6			

XIV. For Longitude of δ Reduction.					I. For the Latitude of the Moon.																			
Argum. XIV. Longit. δ in Orb — Longit. δ corr.					Argum. I. Longitude δ in Orbit — Longitude of Ω correct.																			
0. 6		1. 7		2. 8		0. N					1. N					2. N								
—		—		—		6. S					7. S					8. S								
0	'	"	'	"	0	0	0	'	"	Diff.	0	'	"	Diff.	0	'	"	Diff.						
0	0.	0	6.	2	6.	2	30	0	0.	0.	0	5.	23	2.	34.	25	4.	39	4.	27.	38	2.	40	30
1	0.	14	6.	9	5.	55	29	1	0.	5.	23	5.	23	2.	39.	4	4.	35	4.	30.	18	2.	35	29
2	0.	29	6.	15	5.	47	28	2	0.	10.	46	5.	23	2.	43.	39	4.	33	4.	32.	53	2.	29	28
3	0.	43	6.	21	5.	39	27	3	0.	16.	9	5.	23	2.	48.	12	4.	30	4.	35.	22	2.	25	27
4	0.	58	6.	27	5.	30	26	4	0.	21.	32	5.	23	2.	52.	42	4.	27	4.	37.	47	2.	20	26
5	1	12	6.	32	5.	20	25	5	0.	26.	54	5.	22	2.	57.	9	4.	24	4.	40.	7	2.	14	25
6	1.	26	6.	37	5.	10	24	6	0.	32.	16	5.	21	3.	1.	33	4.	20	4.	42.	21	2.	9	24
7	1.	41	6.	41	5.	0	23	7	0.	37.	37	5.	21	3.	5.	53	4.	17	4.	44.	30	2.	4	23
8	1.	55	6.	45	4.	50	22	8	0.	42.	58	5.	21	3.	10.	10	4.	13	4.	46.	34	1.	59	22
9	2.	9	6.	48	4.	39	21	9	0.	48.	18	5.	20	3.	14.	23	4.	10	4.	48.	33	1.	54	21
10	2.	23	6.	51	4.	28	20	10	0.	53.	37	5.	19	3.	18.	33	4.	6	4.	50.	27	1.	48	20
11	2.	37	6.	54	4.	17	19	11	0.	58.	55	5.	18	3.	22.	39	4.	3	4.	52.	15	1.	43	19
12	2.	50	6.	56	4.	5	18	12	1.	4.	11	5.	16	3.	26.	42	4.	3	4.	53.	58	1.	38	18
13	3.	3	6.	57	3.	53	17	13	1.	9.	27	5.	16	3.	30.	41	3.	59	4.	55.	36	1.	32	17
14	3.	16	6.	57	3.	41	16	14	1.	14.	42	5.	15	3.	34.	36	3.	55	4.	57.	8	1.	27	16
15	3.	29	6.	57	3.	29	15	15	1.	19.	55	5.	13	3.	38.	27	3.	51	4.	58.	35	1.	21	15
16	3.	41	6.	57	3.	16	14	16	1.	25.	6	5.	11	3.	42.	14	3.	47	4.	59.	56	1.	16	14
17	3.	53	6.	57	3.	3	13	17	1.	30.	16	5.	10	3.	45.	57	3.	43	5.	1.	12	1.	10	13
18	4.	5	6.	56	2.	50	12	18	1.	35.	24	5.	8	3.	49.	36	3.	39	5.	2.	22	1.	4	12
19	4.	17	6.	54	2.	37	11	19	1.	40.	31	5.	7	3.	53.	11	3.	35	5.	3.	26	0.	59	11
20	4.	28	6.	51	2.	23	10	20	1.	45.	36	5.	5	3.	56.	41	3.	30	5.	4.	25	0.	54	10
21	4.	39	6.	48	2.	9	9	21	1.	50.	39	5.	3	4.	0.	7	3.	26	5.	5.	19	0.	48	9
22	4.	50	6.	45	1.	55	8	22	1.	55.	40	5.	1	4.	3.	29	3.	22	5.	6.	7	0.	43	8
23	5.	0	6.	41	1.	41	7	23	2.	0.	39	4.	59	4.	6.	47	3.	18	5.	6.	50	0.	36	7
24	5.	10	6.	37	1.	26	6	24	2.	5.	36	4.	57	4.	9.	59	3.	12	5.	7.	26	0.	31	6
25	5.	20	6.	32	1.	12	5	25	2.	10.	30	4.	54	4.	13.	7	3.	8	5.	7.	57	0.	26	5
26	5.	30	6.	27	0.	58	4	26	2.	15.	22	4.	52	4.	16.	11	3.	4	5.	8.	23	0.	20	4
27	5.	39	6.	21	0.	43	3	27	2.	20.	12	4.	50	4.	19.	10	3.	59	5.	8.	43	0.	14	3
28	5.	47	6.	15	0.	29	2	28	2.	24.	59	4.	47	4.	22.	4	2.	54	5.	8.	57	0.	8	2
29	5.	55	6.	9	0.	14	1	29	2.	29.	43	4.	44	4.	24.	53	2.	49	5.	9.	5	0.	3	1
30	6.	2	6.	2	0.	0	0	30	2.	34.	25	4.	42	4.	27.	38	2.	45	5.	9.	8	0.	3	0
		+		+		+		0	0	11. S					10. S					9. S				
		11. 5		10. 4		9. 3		0	0	5. N					4. N					3. N				

II. For Latitude of D				I. For Equatorial Parallax of								
Argum. II. Argu. IX + Argu. XIII.				Arg. Long. XI. Anomaly of D correct.								
O. N	1. N	2. N		0	I	2	3	4	5			
5. S	7. S	8. S		Parall.	Parall.	Parall.	Parall.	Parall.	Parall.			
0	"	"	0	0	"	"	"	"	"	0		
0	0	4. 25	7. 39	30	0	54. 10	54. 30	55. 29	56. 58	58. 37	59. 56	30
1	0	4. 33	7. 43	29	1	54. 10	54. 32	55. 3	57. 1	58. 4	59. 58	29
2	0	4. 41	7. 48	28	2	54. 10	54. 33	55. 34	57. 5	58. 13	59. 0	28
3	0	4. 49	7. 52	27	3	54. 10	54. 35	55. 37	57. 8	58. 4	59. 2	27
4	0	4. 56	7. 56	26	4	54. 11	54. 36	55. 39	57. 12	58. 4	59. 4	26
5	0	5. 4	8. 0	25	5	54. 11	54. 38	55. 42	57. 15	58. 52	59. 5	25
6	0	5. 11	8. 4	24	6	54. 11	54. 39	55. 45	57. 19	58. 55	59. 7	24
7	1	5. 19	8. 7	23	7	54. 11	54. 41	55. 47	57. 22	58. 58	59. 8	23
8	1	5. 26	8. 11	22	8	54. 11	54. 42	55. 50	57. 25	59. 1	59. 10	22
9	1	5. 34	8. 14	21	9	54. 12	54. 44	55. 53	57. 29	59. 4	59. 11	21
10	1	5. 41	8. 18	20	10	54. 12	54. 46	55. 56	57. 32	59. 7	59. 13	20
11	1	5. 48	8. 21	19	11	54. 12	54. 48	55. 59	57. 35	59. 10	59. 14	19
12	1	5. 55	8. 24	18	12	54. 13	54. 49	56. 2	57. 38	59. 13	59. 15	18
13	1	6. 2	8. 27	17	13	54. 13	54. 51	56. 5	57. 42	59. 16	59. 16	17
14	2	6. 9	8. 30	16	14	54. 14	54. 53	56. 8	57. 45	59. 18	59. 17	16
15	2	6. 15	8. 32	15	15	54. 15	54. 55	56. 11	57. 48	59. 21	59. 18	15
16	2	6. 22	8. 34	14	16	54. 15	54. 57	56. 14	57. 51	59. 23	59. 18	14
17	2	6. 28	8. 36	13	17	54. 16	54. 59	56. 17	57. 55	59. 26	59. 19	13
18	2	6. 34	8. 38	12	18	54. 17	55. 1	56. 20	57. 58	59. 29	59. 20	12
19	2	6. 40	8. 40	11	19	54. 18	55. 3	56. 23	58. 1	59. 31	59. 21	11
20	3	6. 46	8. 42	10	20	54. 19	55. 5	56. 26	58. 4	59. 34	59. 22	10
21	3	6. 52	8. 43	9	21	54. 20	55. 7	56. 29	58. 8	59. 36	59. 22	9
22	3	6. 57	8. 45	8	22	54. 21	55. 9	56. 32	58. 11	59. 39	59. 23	8
23	3	7. 3	8. 46	7	23	54. 22	55. 12	56. 36	58. 14	59. 41	59. 24	7
24	3	7. 8	8. 47	6	24	54. 23	55. 14	56. 39	58. 18	59. 44	59. 25	6
25	3	7. 14	8. 48	5	25	54. 24	55. 17	56. 42	58. 21	59. 46	59. 25	5
26	3	7. 19	8. 48	4	26	54. 25	55. 19	56. 45	58. 24	59. 48	59. 26	4
27	4	7. 24	8. 49	3	27	54. 26	55. 22	56. 49	58. 28	59. 50	59. 26	3
28	4	7. 29	8. 49	2	28	54. 28	55. 24	56. 52	58. 31	59. 52	59. 26	2
29	4	7. 34	8. 50	1	29	54. 29	55. 27	56. 55	58. 34	59. 54	59. 26	1
30	4	7. 39	8. 50	0	30	54. 30	55. 29	56. 58	58. 37	59. 56	59. 26	0
0	11. S	10. S	9. S	0	0	Parall.	Parall.	Parall.	Parall.	Parall.	Parall.	0
	5. N	4. N	3. N			11	10	9	8	7	6	

II. For Parallax of the D				III. For Equator Parallax of the D							To find the D's Horizontal Semi-diameter from the Equat. Paral.					
Arg. Long. XII. Double Diff. D a ⊙ correct — Anom. D corr.				Arg. Long. XIII. Longitude D Equated — true Longitude ⊙							Parall.	Semidi.	Parall.	Semidi.		
0	1	2	0	0	1	2	3	4	5	0	1	2	3			
6	7	8		+	+	—	—	—	+							
+	+	+	0	+	+	—	—	—	+	0	1	2	3			
0	1	2	0	0	1	2	3	4	5	0	1	2	3			
0	38	33	19	30	0	25	12	14	27	13	14	30	53. 10	14. 30	57. 23	15. 39
1	38	32	18	29	1	25	12	14	27	12	14	29	53. 21	14. 33	57. 34	15. 42
2	38	32	18	28	2	25	11	15	27	12	15	28	53. 32	14. 36	57. 45	15. 45
3	38	32	17	27	3	25	10	16	27	11	16	27	53. 43	14. 39	57. 56	15. 48
4	38	31	17	26	4	25	9	16	27	10	17	26	53. 54	14. 42	58. 7	15. 51
5	38	31	16	25	5	25	8	17	27	9	18	25	54. 5	14. 45	58. 18	15. 54
6	38	31	16	24	6	25	8	18	27	8	18	24	54. 16	14. 48	58. 29	15. 57
7	37	30	15	23	7	24	7	18	26	7	19	23	54. 27	14. 51	58. 40	16. 0
8	37	30	14	22	8	24	6	19	26	6	20	22	54. 38	14. 54	58. 51	16. 3
9	37	30	14	21	9	24	5	20	26	5	20	21	54. 49	14. 57	59. 2	16. 6
10	37	29	13	20	10	24	4	21	25	4	21	20	55. 0	15. 0	59. 13	16. 9
11	37	29	13	19	11	24	3	21	25	3	22	19	55. 11	15. 3	59. 24	16. 12
12	37	28	12	18	12	23	2	22	24	2	22	18	55. 22	15. 6	59. 35	16. 15
13	37	28	11	17	13	23	1	23	24	1	23	17	55. 33	15. 9	59. 46	16. 18
14	36	28	11	16	14	23	0	23	23	0	23	16	55. 44	15. 12	59. 57	16. 21
15	36	27	10	15	15	23	1	24	23	1	24	15	55. 55	15. 15	60. 8	16. 24
16	36	27	9	14	16	22	1	24	22	2	24	14	56. 6	15. 18	60. 19	16. 27
17	36	26	9	13	17	22	2	25	22	3	25	13	56. 17	15. 21	60. 30	16. 30
18	36	26	8	12	18	21	3	25	21	4	25	12	56. 28	15. 24	60. 41	16. 33
19	35	25	7	11	19	20	4	25	21	5	25	11	56. 39	15. 27	60. 52	16. 36
20	35	25	6	10	20	19	5	26	20	6	26	10	56. 50	15. 30	61. 3	16. 39
21	35	24	6	9	21	19	6	26	19	7	26	9	57. 1	15. 33	61. 14	16. 42
22	35	24	5	8	22	18	7	26	19	7	26	8	57. 12	15. 36	61. 25	16. 45
23	34	23	4	7	23	17	8	26	18	8	26	7				
24	34	23	4	6	24	17	9	26	17	9	27	6				
25	34	22	3	5	25	16	10	27	16	10	27	5				
26	34	21	3	4	26	15	10	27	16	11	27	4				
27	33	21	2	3	27	15	11	27	15	11	28	3				
28	33	20	1	2	28	14	12	27	14	12	28	2				
29	33	20	1	1	29	13	13	27	13	13	28	1				
30	33	19	0	0	30	12	14	27	13	14	28	0				
0	11	10	9	0	0	+	+	—	—	+	+	0				
	+	+	+													
	5	4	3			11	10	9	8	7	6					

Increase of the D's Semidiameter for different Altit.

Appt. Altit. D	Incre. of D's Semi.	Appt. Altit. D	Incre. of D's Semi.
0	0	0	0
5	1	50	12
10	3	55	13
15	4	60	14
20	6	65	15
25	7	70	15
30	8	75	16
35	9	80	16
40	10	85	16
45	11	90	16

III. For hourly Mot. of Δ
 Argum. III.
 Mean Dist. of $\odot a \Delta$.

S	0	1	2	3	4	5
S	6	7	8	9	10	11
	+	+	-	-	+	+
0	42	21	21	42	21	21
1	42	20	22	42	20	22
2	42	18	24	42	18	24
3	42	17	24	42	17	24
4	42	15	26	42	15	26
5	42	14	27	42	14	27
6	42	13	28	42	13	28
7	41	11	29	41	11	29
8	41	10	30	41	10	30
9	40	8	31	40	8	31
10	40	7	32	40	7	32
11	39	5	33	39	5	33
12	39	4	34	39	4	34
13	38	2	35	38	2	35
14	37	1	36	37	1	36
15	36	0	35	36	0	36
16	36	1	37	36	1	37
17	35	3	38	35	3	38
18	34	5	39	34	5	39
19	33	6	39	33	6	39
20	32	8	40	32	8	40
21	31	9	40	31	9	40
22	30	10	41	30	10	41
23	29	12	41	29	12	41
24	28	13	42	28	13	42
25	27	14	42	27	14	42
26	26	15	42	26	15	42
27	24	17	42	24	17	42
28	24	18	42	24	18	42
29	22	20	42	22	20	42
30	21	21	42	21	21	42

A Table of the Multipliers of the Difference between the Moon's Longitude computed, and that inferred from Observation; to find the Error of the Ship's Account in Longitude.

Enter with hourly Motion of Δ , or difference of hourly Motions of \odot & Δ , according as Δ 's distance is taken from a Star or the Sun.

Ho. Mo. Δ or diffe. Ho Mot. $\odot a \Delta$.	Multi- pliers.	Ho. Mot. Δ or diffe. Ho. Mot. $\odot a \Delta$.	Multi- pliers.
25. 45	35,0	32. 0	28,1
26. 0	34,6	32. 15	27,9
26. 15	34,3	32. 30	27,7
26. 30	34,0	32. 45	27,5
26. 45	33,6		
		33. 0	27,3
27. 0	33,3	33. 15	27,1
27. 15	33,0	33. 30	26,9
27. 30	32,7	33. 45	26,7
27. 45	32,4		
		34. 0	26,5
28. 0	32,1	34. 15	26,3
28. 15	31,8	34. 30	26,1
28. 30	31,6	34. 45	25,9
28. 45	31,3		
		35. 0	25,7
29. 0	31,0	35. 15	25,5
29. 15	30,8	35. 30	25,3
29. 30	30,5	35. 45	25,2
29. 45	30,2		
		36. 0	25,0
30. 0	30,0	36. 15	24,8
30. 15	29,7	36. 30	24,7
30. 30	29,5	36. 45	24,5
30. 45	29,3		
		37. 0	24,3
31. 0	29,0	37. 15	24,2
31. 15	28,8	37. 30	24,0
31. 30	28,6	37. 45	23,8
31. 45	28,3	38. 0	23,7

[XXVII]

A Table of the right Ascension of the Degrees of the Ecliptic.

	0	1	2	3	4	5
0	0 /	0 /	0 /	0 /	0 /	0 /
0	0. 0	27. 54	57. 49	90. 0	122. 11	152. 6
1	0. 55	28. 51	58. 51	91. 5	123. 14	153. 3
2	1. 50	29. 49	59. 54	92. 11	124. 16	154. 0
3	2. 45	30. 47	60. 57	93. 16	125. 18	154. 57
4	3. 40	31. 45	62. 0	94. 21	126. 20	155. 54
5	4. 35	32. 43	63. 3	95. 27	127. 21	156. 50
6	5. 30	33. 41	64. 6	96. 32	128. 23	157. 47
7	6. 26	34. 39	65. 10	97. 37	129. 24	158. 44
8	7. 21	35. 38	66. 14	98. 43	130. 25	159. 40
9	8. 16	36. 36	67. 17	99. 48	131. 26	160. 36
10	9. 11	37. 35	68. 21	100. 53	132. 27	161. 32
11	10. 7	38. 34	69. 25	101. 58	133. 28	162. 28
12	11. 2	39. 33	70. 30	103. 3	134. 28	163. 24
13	11. 57	40. 32	71. 34	104. 8	135. 28	164. 20
14	12. 53	41. 32	72. 38	105. 12	136. 28	165. 16
15	13. 49	42. 32	73. 43	106. 17	137. 28	166. 11
16	14. 44	43. 31	74. 48	107. 22	138. 28	167. 7
17	15. 40	44. 31	75. 52	108. 26	139. 28	168. 3
18	16. 36	45. 32	76. 57	109. 30	140. 27	168. 58
19	17. 32	46. 32	78. 2	110. 35	141. 26	169. 53
20	18. 28	47. 33	79. 7	111. 39	142. 25	170. 49
21	19. 24	48. 34	80. 12	112. 42	143. 24	171. 44
22	20. 20	49. 34	81. 17	113. 46	144. 22	172. 39
23	21. 16	50. 36	82. 23	114. 50	145. 21	173. 34
24	22. 13	51. 37	83. 28	115. 53	146. 19	174. 29
25	23. 9	52. 38	84. 33	116. 57	147. 17	175. 25
26	24. 6	53. 40	85. 38	118. 0	148. 15	176. 20
27	25. 3	54. 42	86. 44	119. 3	149. 13	177. 15
28	26. 0	55. 44	87. 49	120. 6	150. 11	178. 10
29	26. 57	56. 46	88. 55	121. 9	151. 8	179. 5
30	27. 54	57. 49	90. 0	122. 11	152. 6	180. 0

[XXVIII]

Sequel of the Table of the right Ascension of the Degrees of the Ecliptic.

	6	7	8	9	10	11
0	0 1	0 1	0 1	0 1	0 1	0 1
0	180. 0	207. 54	237. 49	270. 0	302. 11	332. 6
1	180. 55	208. 51	238. 51	271. 5	303. 14	333. 3
2	181. 50	209. 49	239. 54	272. 11	304. 16	334. 0
3	182. 45	210. 47	240. 57	273. 16	305. 18	334. 57
4	183. 40	211. 44	242. 0	274. 21	306. 20	335. 54
5	184. 35	212. 42	243. 3	275. 27	307. 21	336. 51
6	185. 30	213. 41	244. 6	276. 32	308. 23	337. 47
7	186. 25	214. 39	245. 10	277. 38	309. 24	338. 44
8	187. 21	215. 37	246. 14	278. 43	310. 26	339. 40
9	188. 16	216. 36	247. 17	279. 48	311. 27	340. 36
10	189. 11	217. 35	248. 21	280. 53	312. 27	341. 32
11	190. 6	218. 34	249. 25	281. 58	313. 28	342. 28
12	191. 2	219. 33	250. 30	283. 3	314. 28	343. 24
13	191. 57	220. 32	251. 34	284. 8	315. 29	344. 20
14	192. 53	221. 32	252. 38	285. 13	316. 29	345. 16
15	193. 48	222. 32	253. 43	286. 17	317. 28	346. 12
16	194. 44	223. 31	254. 48	287. 22	318. 28	347. 7
17	195. 40	224. 32	255. 52	288. 26	319. 27	348. 3
18	196. 36	225. 32	256. 57	289. 30	320. 27	348. 58
19	197. 31	226. 32	258. 2	290. 35	321. 26	349. 53
20	198. 27	227. 33	259. 7	291. 39	322. 25	350. 49
21	199. 24	228. 34	260. 12	292. 43	323. 24	351. 44
22	200. 20	229. 35	261. 17	293. 46	324. 23	352. 39
23	201. 16	230. 36	262. 23	294. 50	325. 21	353. 34
24	202. 13	231. 37	263. 28	295. 54	326. 19	354. 30
25	203. 9	232. 38	264. 33	296. 57	327. 17	355. 25
26	204. 6	233. 40	265. 38	298. 0	328. 15	356. 20
27	205. 3	234. 42	266. 44	299. 3	329. 13	357. 15
28	206. 0	235. 44	267. 49	300. 6	330. 11	358. 10
29	206. 57	236. 46	268. 55	301. 9	331. 8	359. 5
30	207. 54	237. 49	270. 0	302. 11	332. 6	360. 0

A T A B L E

Containing the Longitudes of Places that have been determined by Astronomical Observations, reckoned from the Meridian of the Royal Observatory at *Greenwich*; and also their Latitudes.

Names of Places.	Contine.	Country.	Coast or Province.	Latitude.			Longitude.					
							in Degrees.		In Time.			
				°	'	"	°	'	H. M. S			
Abbeville	Eur.	France	Picardy	50	7	1 N	1	49	45 E	0	7	19
Abo	Eur.	Finland	Baltic Sea	60	27	10 N	22	13	30 E	1	28	54
Achem	Af.	N. W. Pt. Ill. Sumatra	Indian Ocean	5	22	N	105	34	E	6	22	16
Agra	Af.	India	Moguls	26	43	0 N	76	44	0 E	5	6	56
Aix	Eur.	France	Provence	43	31	35 N	5	26	15 E	0	21	45
Alby	Eur.	France	Languedoc	43	55	44 N	2	31	15 E	0	10	5
Alexandretta	Af.	Syria	Mediterr. Sea	36	35	10 N	36	20	0 E	2	25	20
Alexandria	Af.	Egypt	Mediterr. Sea	31	11	20 N	30	16	30 E	2	1	6
Amiens	Eur.	France	Picardy	49	53	38 N	2	18	0 E	0	9	12
Ancona	Eur.	Italy	Mediterr. Sea	43	37	54 N	13	30	30 E	0	54	2
Angers	Eur.	France	Orleanois	47	28	8 N	0	33	45 W	0	2	15
Angoulême	Eur.	France	Orleanois	45	39	3 N	0	8	45 E	0	0	35
Antibes	Eur.	France	Mediterr. Sea	43	34	50 N	7	8	30 E	0	28	34
Antwerp	Eur.	Flanders	River Scheld	51	13	15 N	4	24	15 E	0	17	37
Archangel	Eur.	Russia	White Sea	64	34	0 N	38	5	50 E	2	35	40
Arica	Am.	Peru	South Sea	18	26	38 S	71	11	0 W	4	44	44
Arles	Eur.	France	Provence	43	40	33 N	4	38	0 E	0	18	32
Isl. of Ascension	Af.	Angola	S. Atl. Ocean	7	57	0 S	13	59	0 W	0	55	56
Athens	Eur.	Turkey	Archipelago	38	5	0 N	23	52	30 E	1	35	30
Auch	Eur.	France	Gascony	43	38	46 N	0	30	0 E	0	2	0
Aurillac	Eur.	France	Lionois	44	55	10 N	2	27	0 E	0	9	48
Auxerre	Eur.	France	Burgundy	47	47	54 N	3	34	15 E	0	14	17
Avignon	Eur.	France	Provence	43	57	25 N	4	48	30 E	0	19	14
Avranches	Eur.	France	Normandy	48	41	18 N	1	22	45 W	0	5	31
Antic. Babylon	Af.	Mesopotamia	Riv. Euphrates	33	0	0 N	42	46	30 E	2	51	6
Bagdad	Af.	Mesopotamia		33	21	0 N	43	46	30 E	2	55	6
Balafore	Af.	India	Bay Bengal	21	20	0 N	86	0	0 E	5	44	0
Bayeux	Eur.	France	Normandy	49	16	30 N	0	42	45 W	0	2	51
Bayonne	Eur.	France	Bay Biscay	43	29	21 N	1	30	0 W	0	6	0
Great Bear Ill.	Am.		Hudson's Bay	54	34	N	79	56	0 W	5	19	44
Beavais	Eur.	France	Isl. of France	49	26	2 N	2	4	45 E	0	8	19
Berlin	Eur.	Germany	River Elbe	52	32	30 N	13	26	15 E	0	53	45
Befancou	Eur.	France	France Compté	47	13	45 N	6	2	30 E	0	24	10
Beziés	Eur.	France	Languedoc	43	20	41 N	3	12	30 E	0	12	50
Cape Blanco	Am.	Patagonia	Atl. Ocean	47	20	S	70	5	0 W	4	40	20

Names of Places.	Contine.	Country.	Coast or Province.	Latitude.			Longitude.					
							In Degrees.		In Time.			
				°	'	"	°	'	"	H.	M.	S.
Bologna S. Petr.	Eur.	Italy	Romania	44	29	36 N	11	21	15 E	0	45	25
Boston	Am.	New England	Atl. Ocean	42	25	0 N	70	37	15 W	4	42	20
Boulogne	Eur.	France	Eng. Channel	50	43	31 N	1	36	45 E	0	6	27
Isl. of Bourbon												
St. Dennis	Af.	Madagascar	Ind. Ocean	20	51	43 S	55	30	0 E	3	42	0
Bordeaux	Eur.	France	River Garonne	44	50	18 N	0	34	45 W	0	2	19
Briellaw	Eur.	Silesia	River Oder	51	3	0 N	17	8	45 E	1	8	35
Brest	Eur.	France	Atl. Ocean	48	23	0 N	4	30	45 W	0	18	3
St. Brieux	Eur.	France	Eng. Channel	48	31	21 N	2	43	15 W	0	10	53
Brussels	Eur.	Netherlands	Brabant	50	51	0 N	3	21	45 E	0	17	27
Buenos Ayres	Am.	Brasil	Atl. Ocean	34	35	26 S	58	31	15 W	3	54	5
Porto Cabello	Am.	Terra Firma	Caracos	10	30	50 N	67	32	0 W	4	30	8
Cadiz	Eur.	Spain	Atl. Ocean	36	31	7 N	6	1	15 W	0	24	5
Caen	Eur.	France	Eng. Channel	49	11	10 N	0	21	45 W	0	1	27
Cairo	Af.	Egypt	River Nile	30	2	30 N	31	26	15 E	2	5	45
Cajaneburg	Eur.	Sweden	Finland	64	13	30 N	27	43	15 E	1	50	53
Calais	Eur.	France	Eng. Channel	50	57	31 N	1	51	0 E	0	7	24
F. Wil. Calcutta	Af.	India	Bengal	22	36	N	88	25	45 E	5	53	43
Callao	Am.	Peru	South Sea	12	1	53 S	76	58	0 W	5	7	52
Calmar	Eur.	Sweden	Baltic Sea	56	40	30 N	15	21	45 E	1	5	27
Cambray	Eur.	Netherlands	Cambresis	50	10	30 N	3	13	45 E	0	12	55
Cambridge	Eur.	England	Cambridge-shi.	52	17	N	0	5	45 E	0	0	23
Isl. of Candia	Eur.	Turkey	Medit. Sea	35	18	35 N	25	18	0 E	1	41	12
Canton	Af.	China	South Ocean	23	7	30 N	113	2	0 E	7	32	8
Carlescroon	Eur.	Sweden	Baltic Sea	56	20	N	15	26	15 E	1	1	45
Carthagena	Am.	Terra Firma	Carib. Sea	10	26	35 N	75	26	15 W	5	1	45
Casan	Eur.	Russia	Casan	55	44	N	49	30	0 E	3	18	0
Castres	Eur.	France	Languedoc	43	37	10 N	2	14	45 E	0	8	59
St. Catherine Is.	Am.	Plata	Atl. Ocean	27	35	S	49	17	W	3	17	8
Cayenne	Am.	Isl. Cayenne	Atl. Ocean	4	56	0 N	52	15	0 W	3	29	0
Châlons	Eur.	France	River Marne	48	57	12 N	4	22	15 E	0	17	29
Challon	Eur.	France	River Saone	46	46	50 N	4	51	30 E	0	19	26
Chandernagor	Af.	India	Bengal	22	51	26 N	88	29	15 E	5	53	57
Charlton Island	Am.	New Wales	Hudson's Bay	52	3	N	80	10	W	5	20	40
Chartres	Eur.	France	Orleanois	48	26	49 N	1	29	0 E	0	5	56
Cherburg	Eur.	France	Eng. Channel	49	38	26 N	1	38	15 W	0	6	33
Churchill River												
Pr. Wales Ft.	Am.	New Wales	Hudson's Bay	58	56	N	94	55	W	6	19	40
Civita Vecchia	Eur.	Italy	Medit. Sea	42	5	24 N	11	46	15 E	0	47	5
Cape Clear	Eur.	Ireland	West Ocean	51	18	N	11	15	0 W	0	45	0
Clermont	Eur.	France	Lionois	45	46	45 N	3	5	0 E	0	12	20
Cape Comorin	Af.	India	Ind. Ocean	7	56	N	78	5	E	5	12	20

Names of Places.	Contine.	Country.	Coast or Province.	Latitude.			Longitude.					
							In Degrees.		In Time.			
				°	'	"	°	'	"	H. M. S.		
Conception	Am.	Chili	South Sea	36	42	53 S	72	40	0 W	4	50	40
Ill. Palo Condor	Af.	Gulf Siam	Ind. Ocean	8	40	0 N	107	20	0 E	7	9	20
Constantinople	Eur.	Turkey	Archipelago	41	0	0 N	28	53	30 E	1	55	34
Copenhagen	Eur.	Denmark	Baltic Sea	55	40	45 N	12	45	15 E	0	51	1
Coquimbo	Am.	Chili	South Ocean	29	54	26 S	71	15	45 W	4	45	3
Coutances	Eur.	France	Eng. Channel	49	2	50 N	1	27	30 W	0	5	50
Ill. of Cummin	Af.	China	China Ocean	31	40	0 N	121	4	0 E	8	4	16
Dantzic	Eur.	Poland	Baltic Sea	54	22	0 N	18	31	0 E	1	14	4
Dax	Eur.	France	River Adour	43	42	23 N	1	4	0 W	0	4	16
Dieppe	Eur.	France	Eng. Channel	49	55	17 N	1	4	15 E	0	4	17
Dijon	Eur.	France	Burgundy	47	19	22 N	5	2	30 E	0	20	10
Dol	Eur.	France	Britany	48	33	9 N	1	46	15 W	0	7	5
Drontheim	Eur.	Norway	North Ocean	63	26	10 N	11	3	45 E	0	44	15
Dunkirk	Eur.	France	Eng. Channel	51	2	4 N	2	22	30 E	0	9	30
Edinburgh	Eur.	Scotland	German Ocean	55	57	57 N	3	18	16 W	0	13	13
Embrun	Eur.	France	Dauphiny	44	34	0 N	6	29	0 E	0	25	56
Erzerom	Af.	Armenia		39	56	35 N	48	35	45 E	3	14	23
Evereux	Eur.	France	Normandy	49	1	24 N	1	8	45 E	0	4	35
Exeter	Eur.	England	Devonshire	50	44	0 N	3	34	30 W	0	14	18
Falmouth	Eur.	England	Eng. Channel	50	8	0 N	5	28	20 W	0	21	53
Ferrara	Eur.	Italy	River Po	44	54	0 N	11	36	15 E	0	46	25
Ill. of Ferro, at the Town	Af.	Canaries	Atl. Ocean	27	47	20 N	17	33	45 W	1	10	15
Florence	Eur.	Italy	River Arno	43	46	30 N	11	2	0 E	0	44	8
St. Flour	Eur.	France	Lionois	45	1	55 N	3	5	30 E	0	12	22
Ca. St. François	Am.	Hispaniola	Atl. Ocean	19	40	0 N	71	40	0 W	4	46	40
Frawenburgh	Eur.	Prussia	Baltic Sea	54	22	15 N	20	7	30 E	1	20	30
Frejus	Eur.	France	Mediterr. Sea	43	26	3 N	6	44	45 E	0	26	59
Strs. of Fronfac, narrowest Part oppos. a high Mountain towards the Continent	Am.	Nova Scotia	Ill. Cape Breton	45	39	0 N	61	20	0 W	4	5	20
Geneva	Eur.	Savoy	River Rhone	46	12	0 N	6	35	0 E	0	26	20
Genoa	Eur.	Italy	Mediterr. Sea	44	25	0 N	8	35	45 E	0	34	23
Fort St. Georg.	Af.	India	Bay Bengal	13	13	0 N	80	2	15 E	5	20	9
Ghent	Eur.	Netherlands	Flanders	51	3	0 N	3	43	45 E	0	14	55
Goa	Af.	India	Arab. Sea	15	31	0 N	73	45	0 E	4	55	0
Ca. Good-Hope	Af.	Caffers	Indian Ocean	33	55	42 S	18	23	15 E	1	13	33
Gottenburg	Eur.	Sweden	Sound	57	42	0 N	11	38	45 E	0	46	35
Gottingen, Obs.	Eur.	Germany	Brunswic	51	31	0 N	9	54	0 E	0	39	36
Granville	Eur.	France	Eng. Channel	48	50	11 N	1	37	0 W	0	6	28
Graffe	Eur.	France	Provence	43	39	25 N	6	56	0 E	0	27	44
R. Obs. Greenw.	Eur.	England	Kent	51	28	40 N	0	0	0	0	0	0
Grenoble	Eur.	France	Dauphine	45	11	45 N	5	43	0 E	0	22	52

Names of Places.	Contine.	Country.	Coast or Province.	Latitude.			Longitude.			
							In Degrees.		In Time.	
				°	'	''	°	'	''	
Manila	Af.	Isl. Manila	South Ocean	14	30	N	120	20	E	8 1 20
Marfeilles	Eur.	France	Medit. Sea	43	17	45 N	5	22	15 E	0 21 29
St. Martha	Am.	Terra Firma	Caribbean Sea	11	26	40 N	74	4	30 W	4 56 18
Martinico, St. Peter's Fort	Am.	West Indies	Atl. Ocean	14	44	N	61	21	16 W	4 5 25
Isl. Mauritius, Port Louis	Am.	Madagascar	Indian Ocean	20	9	45 S	57	28	0 E	3 49 52
Meaux	Eur.	France	Champaigne	48	57	37 N	2	52	30 E	0 11 30
Mergui	Af.	India	Kingdom Siam				98	8	45 E	6 32 35
Metz	Eur.	France	Lorrain	49	7	5 N	6	11	0 E	0 24 41
Mexico	Am.	Mexico	Inland	20	0	0 N	103	40	0 W	6 54 40
Modena	Eur.	Italy	Modena	44	34	0 N	11	12	30 E	0 44 50
Mons	Eur.	Netherlands		50	27	10 N	3	57	15 E	0 15 49
Montpellier	Eur.	France	Languedoc	43	36	33 N	3	52	45 E	0 15 31
Moscow	Eur.	Russia	Moscow	55	45	20 N	37	46	15 E	2 31 5
Moulins	Eur.	France	Lionois	46	34	4 N	3	20	0 E	0 13 20
Nancy	Eur.	France	Lorrain	48	41	28 N	6	11	30 E	0 24 46
Nangafachi	Af.	Capital Japan	South Sea	32	32	N	128	46	15 E	8 35 5
Nants	Eur.	France	River Loire	47	13	17 N	1	33	45 W	0 6 15
Naples, Royal College	Eur.	Italy	Medit. Sea	40	50	45 N	14	13	45 E	0 56 55
Narbonne	Eur.	France	Medit. Sea	43	11	13 N	3	0	15 E	0 12 1
Nice	Eur.	France	Medit. Sea	43	41	54 N	7	17	15 E	0 29 9
Nieuport	Eur.	Flanders	German Ocean	51	7	41 N	2	45	0 E	0 11 0
Ningpo	Af.	China	South Sea	29	57	45 N	120	18	0 E	8 1 12
Nismes	Eur.	France	Languedoc	43	50	35 N	4	21	15 E	0 17 25
Noyon	Eur.	France	If. of France	49	34	37 N	3	0	45 E	0 12 3
Nuremberg	Eur.	Germany	Franconia	49	26	55 N	11	4	0 E	0 44 16
Olinde	Am.	Brazil	S. Atl. Ocean	8	13	0 N	35	1	0 W	2 20 4
St. Omer's	Eur.	Netherlands	Flanders	50	44	46 N	2	15	0 E	0 9 0
Orleans	Eur.	France	Orleanois	47	54	4 N	1	54	15 W	0 7 37
New Orleans	Am.	Louisiana	Riv. Mississippi	29	57	45 N	89	58	45 W	5 59 55
Ostend	Eur.	Flanders	German Ocean	51	13	55 N	2	55	0 E	0 11 40
Oxford	Eur.	England	Oxfordshire	51	45	0 N	1	16	0 W	0 5 4
Padua	Eur.	Italy	Venice	45	22	26 N	11	55	30 E	0 47 42
Panama	Am.	Mexico	South Ocean	8	57	48 N	80	21	W	5 21 24
Paris, Observa.	Eur.	France	If. of France	48	50	14 N	2	20	0 E	0 9 20
Pau	Eur.	Switzerland	Bearn	43	15	0 N	0	9	0 W	0 0 36
St. Paul de Leon	Eur.	France	Eng. Channel	48	40	55 N	4	0	15 W	0 16 1
Pekin	Af.	China	Inland	39	54	0 N	116	22	30 E	7 45 30
Perinaldi	Eur.	Italy	Medit. Sea	43	53	20 N	7	40	0 E	0 30 40
Perpignan	Eur.	France	Rouffillon	42	41	55 N	2	54	0 E	0 11 36
St. Peterbourg	Eur.	Russia	Baltic Sea	59	56	0 N	30	20	0 E	2 1 20

Names of Places.	Contine.	Country.	Coast or Province.	Latitude.			Longitude.					
							In Degrees.		In Time.			
				°	'	"	°	'	"	H.	M.	S.
Petit-Goave	Am.	If. Hispaniola	Atl. Ocean	18	27	N	72	33	45 W	4	50	15
Plimouth Town	Eur.	England	Devonshire	50	26	N	4	18	51 W	0	17	15
Do. Ram-Head				50	23	N	4	22	25 W	0	17	30
Do. Edystone				50	12	N	4	25	58 W	0	17	44
Pondicherry	Af.	India	Bay Bengal	11	56	30 N	75	7	30 E	5	0	3
Porto-Bello	Am.	New Spain	Carib. Sea	9	33	5 N	79	50	0 W	5	19	20
Portsmouth	Eur.	England	Eng. Channel	50	49	N	1	5	W	0	4	20
Prague	Eur.	Bohemia		50	4	30 N	14	45	0 E	0	59	0
If. of Pulicondo	Af.	Gulf of Siam	Ind. Ocean	8	40	N	107	20	E	7	9	20
Quebec	Am.	Canada	Riv. S. Laurence	46	55	0 N	69	53	0 W	4	39	32
Quito	Am.	Peru	Inland	0	13	17 S	77	55	0 W	5	11	40
Antient Rakah	Af.	Mesopotamia	Riv. Euphrate	36	1	N	38	50	0 E	2	35	20
Reims	Eur.	France	Champaigne	49	14	36 N	4	3	0 E	0	16	12
Rennes	Eur.	France	Britany	48	6	45 N	1	42	0 W	0	6	48
Rimini	Eur.	Italy	Adri. Sea	44	3	43 N	12	34	15 E	0	50	15
Rhodes	Eur.	France	Guienne	44	21	0 N	2	34	15 E	0	10	17
Rochelle	Eur.	France	Bay Biscy	46	9	43 N	1	15	45 W	0	5	3
Rodrigues	Af.	Madagascar	Indian Ocean	19	40	40 S	63	10	0 E	4	12	40
Rome, S Peter's	Eur.	Italy	River Tiber	41	53	54 N	12	20	15 E	0	49	57
Rotterdam	Eur.	Holland	German Ocean	51	56	0 N	4	28	15 E	0	17	53
Rouen	Eur.	France	River Seyne	49	26	43 N	1	5	15 E	0	4	21
Cape Sable	Am.	New Scotland	Atl. Ocean	43	24	0 N	65	30	W	4	22	0
Salonique	Eur.	Turkey	Archipelago	40	41	10 N	23	8	0 E	1	32	35
Scilly Isles, St. Agnes Light-house	Eur.	England	Eng. Channel	49	56	N	7	14	W	0	28	56
Seez	Eur.	France	Normandy	48	36	21 N	0	9	45 E	0	0	30
Sens	Eur.	France	Champaigne	48	11	56 N	3	17	0 E	0	13	5
Sherburne Cast.	Eur.	England	Oxfordshire	51	39	25 N	1	0	0 W	0	4	0
Si-nghan-fu	Af.	China		34	16	30 N	108	43	45 E	7	14	5
Smyrna	Af.	Natolia	Archipelago	38	28	7 N	27	19	45 E	1	49	1
Soulons	Eur.	France	Ill. of France	49	22	32 N	3	19	30 E	0	13	15
Stalbridge	Eur.	England	Devonshire	50	57	N	2	23	30 W	0	0	3
Start Point	Eur.	England	Eng. Channel	50	9	N	3	51	15 W	0	15	2
Stockholm	Eur.	Sweden	Baltic Sea	59	20	31 N	18	2	45 E	1	12	11
Stratburg	Eur.	Germany	Alsace	48	34	35 N	7	45	15 E	0	31	
Tarbes	Eur.	France	Gascony	43	14	2 N	0	3	30 E	0	0	
Pic of Teneriff	Af.	Canaries	Atl. Ocean	28	12	54 N	16	32	0 W	1	6	
If. of St. Thomas	Am.	Virgin Isles	Atl. Ocean	18	21	55 N	64	33	0 W	4	18	
If. Pulo Timon	Af.	Gulf Siam	Ind. Ocean	3	0	N	104	25	E		57	
Tobolski	Af.	Russia	Siberia	58	12	18 N	68	12	45 E	4	32	
Tornea	Eur.	Sweden	Gulf Bothnia	65	50	50 N	24	12	0 E	1	36	

Names of Places.	Contine.	Country.	Coast or Province.	Latitude.			Longitude.					
							In Degrees.		In Time.			
				°	'	"	°	'	"	H.	M.	S.
Toulon	Eur.	France	Mediterr. Sea	43	7	24 N	5	56	30 E	0	23	46
Touloufe	Eur.	France	Languedoc	43	35	54 N	1	26	15 E	0	5	45
Tours	Eur.	France	Orleanois	47	23	44 N	0	41	15 E	0	2	45
Tripoli	Af.	Barbary	Mediterr. Sea	32	53	40 N	13	5	15 E	0	52	21
Turin	Eur.	Italy	River Po	45	5	20 N	7	40	0 E	0	30	40
Upfal	Eur.	Sweden	River Sala	59	51	50 N	17	42	15 E	1	10	49
Uraniberg	Eur.	Denmark	Baltic Sea	55	54	15 N	12	52	30 E	0	51	30
Valparais	Am.	Chili	South Sea	33	2	36 S	72	19	15 W	4	49	17
Venice	Eur.	Italy	Adriatic Sea	45	25	0 N	12	4	30 E	0	48	18
Vera Cruz	Am.	New Spain	Gulf Mexico	19	12	N	97	30	E	6	30	0
Verduu	Eur.	France	Lorraine	49	9	18 N	5	22	45 E	0	21	31
Verona	Eur.	Italy	Venice	45	26	26 N	11	18	30 E	0	45	14
Verfuijles	Eur.	France	If. of France	48	48	18 N	2	7	15 E	0	8	29
Cape Verd	Af.	Negroland	Atl. Ocean	14	43	0 N	17	10	0 W	1	8	40
Vienna, Imperial Observa.	Eur.	Germany	River Danube	48	12	48 N	16	22	30 E	1	5	30
Vintimiglia	Eur.	Italy	Mediterr. Sea	43	53	20 N	7	37	30 E	0	30	30
Virgin Gorda Fort	Am.	West Indies	Atl. Ocean	18	18	N	64	0	W	4	16	0
Cape Virgin's	Am.	Patagonia	Atl. Ocean	52	26	N	71	5	W	4	44	20
Wakefield	Eur.	England	Yorkshire	53	41	N	1	33	30 W	0	6	14
Wanstead	Eur.	England	Essex	51	34	0 N	0	2	30 E	0	0	10
Wittenberg	Eur.	Germany	Saxony	51	43	10 N	12	33	30 E	0	50	14
Ylo	Am.	Peru	South Sea	17	36	15 S	71	13	0 W	4	44	52
York	Eur.	England	River Ouse	53	59	N	1	6	40 W	0	4	27
New York	Am.	New England	Atl. Ocean	40	43	N	74	9	W	4	56	36