

©

Star & Planet sights are available

Date & Zone Time @ DR Position

18-May-03 21:18:14

Date & MeanTime @ Greenwich

19-May-03 4:18:14

Sun is below the horizon

Moon is below the horizon

Sun, Moon, Planet & Star Data Valid @ Position Shown Below

DR L 48 deg. 8.50 min. N

DR Lo 123 deg. 26.00 min. W

Use "Nav Bodies" Worksheet to specify Position, Date & Time

1st Body Hc	1st Body	1st Body Zn		+2ΔZn		+6ΔZn
27	CAPELLA	308.9 deg.		39 deg.		219 deg.
		Valid Zn Ranges for 2nd Body	354	→	84 deg.	174
						264 deg.

The ideal Zn values for a 2nd Body of a 2 Body Fix are shown in the mauve cells labeled +2ΔZn & +6ΔZn

2nd Body Hc	2nd Body	2nd Body Zn
48	REGULUS	218.9 deg.

Select Bodies for a Two Body Fix

Altitude of the Sun -4 deg. 43.86 min.

Crossing Angle of LOPs From Body 1 & Body 2 is 90 deg.

List of Bodies Flagged as "Valid for Sight Taking" →

Sight Planning
Select Bodies from Dropdown List associated with Yellow Cells

1st Body Hc	1st Body	1st Body Zn		+1ΔZn		+2ΔZn
12	DENEBO	31.9 deg.		92 deg.		152 deg.
		Valid Zn Ranges for 2nd Body	62	→	122	182 deg.

The ideal Zn values for a 2nd & 3rd body of a 3 body fix

				+4ΔZn		+5ΔZn
				272 deg.		332 deg.
		Valid Zn Ranges for 2nd Body	242	→	302	→
						2 deg.

2nd Body Hc	2nd Body	2nd Body Zn
27	SPICA	153.6 deg.

Select Bodies for a Three Body Fix

3rd Body Hc	3rd Body	3rd Body Zn
39	POLLUX	269.7 deg.

Azimuth Spread 237.9 deg.

Note: The Valid Zn Ranges for a 3rd Body are not valid until you run the "ValidZnRanges" macro by clicking on this box.

This must be done each time after entering a new name for either the "1st Body" and/or the "2nd Body".

Valid Zn Ranges for a 3rd Body

62	→	124 deg.
242	→	304 deg.
--	→	-- deg.
--	→	-- deg.
--	→	-- deg.

Crossing Angle of LOPs From Body 1 & Body 2 is 58 deg.

LHA of Aries 177.6 deg.

Crossing Angle of LOPs From Body 1 & Body 3 is 58 deg.

HO 2102-D

Crossing Angle of LOPs From Body 2 & Body 3 is 64 deg.

Zn (deg.)	Visual Magnitude	Names of Bodies Flagged as Valid for Sight Taking	Hc (deg.)	Hc (min.)
21.2	2.1	Kochab	57	40.69
31.9	1.3	DENEBO	12	7.68
45.4	1.8	Alioth	77	29.62
49.3	2.2	Eltanin	34	49.17
54.9	0.0	VEGA	21	9.43
75.5	1.9	Alkaid	70	42.71
84.3	2.1	Rasalhague	11	49.22
95.4	2.2	Alphecca	41	48.68
121.8	0.0	ARCTURUS	48	44.97
153.6	1.0	SPICA	27	2.38
180.4	2.1	Denebola	56	24.76
218.9	1.4	REGULUS	48	3.72
219.5	2.0	Alphard	25	4.92
245.4	-2.0	JUPITER	43	39.83
252.5	0.4	PROCYON	21	52.54
269.7	1.1	POLLUX	39	20.08
274.0	0.5	BETELGEUSE	6	21.53
285.3	1.1	SATURN	16	49.16
293.9	1.7	Elnath	17	13.20
308.9	0.1	CAPELLA	27	56.64
326.9	1.8	Mirfak	18	18.35
338.6	1.8	Dubhe	74	55.05
352.8	2.2	Schedar	15	13.07