

## Shift in Longitude at Speed of 6 Knots

		Declination																								
		NORTH										SOUTH														
Lat.	24°	22°	20°	18°	16°	14°	12°	10°	8°	6°	4°	2°	0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	Lat.
60°N	29'	30'	31'	32'	33'	34'	35'	36'	36'	37'	38'	39'	40'	40'	41'	42'	43'	44'	45'	45'	46'	47'	48'	49'	50'	60°N
58°N	26'	27'	28'	29'	30'	31'	32'	33'	33'	34'	35'	36'	37'	37'	38'	39'	40'	41'	42'	42'	43'	44'	45'	46'	47'	58°N
56°N	24'	25'	26'	27'	27'	28'	29'	30'	31'	32'	32'	33'	34'	35'	36'	36'	37'	38'	39'	40'	41'	41'	42'	43'	44'	56°N
54°N	21'	22'	23'	24'	25'	26'	27'	28'	28'	29'	30'	31'	32'	32'	33'	34'	35'	36'	36'	37'	38'	39'	40'	41'	42'	54°N
52°N	19'	20'	21'	22'	23'	24'	24'	25'	26'	27'	28'	29'	29'	30'	31'	32'	33'	33'	34'	35'	36'	37'	38'	39'	40'	52°N
50°N	17'	18'	19'	20'	21'	22'	22'	23'	24'	25'	26'	27'	27'	28'	29'	30'	31'	31'	32'	33'	34'	35'	36'	37'	38'	50°N
48°N	15'	16'	17'	18'	19'	20'	21'	21'	22'	23'	24'	25'	25'	26'	27'	28'	29'	29'	30'	31'	32'	33'	34'	35'	36'	48°N
46°N	14'	14'	15'	16'	17'	18'	19'	20'	21'	21'	22'	23'	24'	25'	25'	26'	27'	28'	29'	29'	30'	31'	32'	33'	34'	46°N
44°N	12'	13'	14'	15'	16'	16'	17'	18'	19'	20'	21'	21'	22'	23'	24'	25'	25'	26'	27'	28'	29'	30'	30'	31'	32'	44°N
42°N	10'	11'	12'	13'	14'	15'	16'	17'	17'	18'	19'	20'	21'	21'	22'	23'	24'	25'	26'	26'	27'	28'	29'	30'	31'	42°N
40°N	9'	10'	11'	12'	13'	14'	14'	15'	16'	17'	18'	18'	19'	20'	21'	22'	22'	23'	24'	25'	26'	27'	28'	28'	29'	40°N
38°N	8'	9'	10'	10'	11'	12'	13'	14'	15'	15'	16'	17'	18'	19'	20'	20'	21'	22'	23'	24'	24'	25'	26'	27'	28'	38°N
36°N	6'	7'	8'	9'	10'	11'	12'	13'	13'	14'	15'	16'	17'	17'	18'	19'	20'	21'	22'	22'	23'	24'	25'	26'	27'	36°N
34°N	5'	6'	7'	8'	9'	10'	11'	11'	12'	13'	14'	15'	15'	16'	17'	18'	19'	19'	20'	21'	22'	23'	24'	25'	26'	34°N
32°N	4'	5'	6'	7'	8'	9'	9'	10'	11'	12'	13'	14'	14'	15'	16'	17'	18'	18'	19'	20'	21'	22'	23'	24'	25'	32°N
30°N	3'	4'	5'	6'	7'	8'	8'	9'	10'	11'	12'	12'	13'	14'	15'	16'	16'	17'	18'	19'	20'	21'	22'	22'	23'	30°N
28°N	2'	3'	4'	5'	6'	6'	7'	8'	9'	10'	11'	11'	12'	13'	14'	15'	15'	16'	17'	18'	19'	20'	21'	21'	22'	28°N
26°N	1'	2'	3'	4'	5'	5'	6'	7'	8'	9'	10'	10'	11'	12'	13'	14'	14'	15'	16'	17'	18'	19'	20'	20'	21'	26°N
24°N	0'	1'	2'	3'	4'	4'	5'	6'	7'	8'	9'	9'	10'	11'	12'	13'	13'	14'	15'	16'	17'	18'	19'	19'	20'	24°N
22°N	1'	0'	1'	2'	3'	4'	4'	5'	6'	7'	8'	8'	9'	10'	11'	12'	12'	13'	14'	15'	16'	17'	18'	19'	19'	22°N
20°N	2'	1'	0'	1'	2'	3'	3'	4'	5'	6'	7'	8'	8'	9'	10'	11'	12'	12'	13'	14'	15'	16'	17'	18'	19'	20°N
18°N	3'	2'	1'	0'	1'	2'	3'	3'	4'	5'	6'	7'	7'	8'	9'	10'	11'	11'	12'	13'	14'	15'	16'	17'	18'	18°N
16°N	4'	3'	2'	1'	0'	1'	2'	3'	3'	4'	5'	6'	7'	7'	8'	9'	10'	11'	11'	12'	13'	14'	15'	16'	17'	16°N
14°N	4'	4'	3'	2'	1'	0'	1'	2'	2'	3'	4'	5'	6'	7'	8'	9'	10'	11'	11'	12'	13'	14'	15'	16'	17'	14°N
12°N	5'	4'	3'	3'	2'	1'	0'	1'	2'	2'	3'	4'	5'	6'	6'	7'	8'	9'	10'	11'	11'	12'	13'	14'	15'	12°N
10°N	6'	5'	4'	3'	3'	2'	1'	0'	1'	2'	2'	3'	4'	5'	6'	6'	7'	8'	9'	10'	11'	11'	12'	13'	14'	10°N
8°N	7'	6'	5'	4'	3'	2'	2'	1'	0'	1'	2'	2'	3'	4'	5'	6'	6'	7'	8'	9'	10'	11'	12'	12'	13'	8°N
6°N	8'	7'	6'	5'	4'	3'	2'	2'	1'	0'	1'	2'	2'	3'	4'	5'	6'	6'	7'	8'	9'	10'	11'	12'	13'	6°N
4°N	9'	8'	7'	6'	5'	4'	3'	2'	2'	1'	0'	1'	2'	2'	3'	4'	5'	6'	6'	7'	8'	9'	10'	11'	12'	4°N
2°N	9'	8'	8'	7'	6'	5'	4'	3'	2'	2'	1'	0'	1'	2'	2'	3'	4'	5'	6'	7'	7'	8'	9'	10'	11'	2°N
0°	10'	9'	8'	7'	7'	6'	5'	4'	3'	2'	2'	1'	0'	1'	2'	2'	3'	4'	5'	6'	7'	7'	8'	9'	10'	0°
2°S	11'	10'	9'	8'	7'	7'	6'	5'	4'	3'	2'	2'	1'	0'	1'	2'	2'	3'	4'	5'	6'	7'	8'	8'	9'	2°S
4°S	12'	11'	10'	9'	8'	7'	6'	6'	5'	4'	3'	2'	2'	1'	0'	1'	2'	2'	3'	4'	5'	6'	7'	8'	9'	4°S
6°S	13'	12'	11'	10'	9'	8'	7'	6'	6'	5'	4'	3'	2'	2'	1'	0'	1'	2'	2'	3'	4'	5'	6'	7'	8'	6°S
8°S	13'	12'	12'	11'	10'	9'	8'	7'	6'	6'	5'	4'	3'	2'	2'	1'	0'	1'	2'	2'	3'	4'	5'	6'	7'	8°S
10°S	14'	13'	12'	11'	11'	10'	9'	8'	7'	6'	6'	5'	4'	3'	2'	2'	1'	0'	1'	2'	3'	3'	4'	5'	6'	10°S
12°S	15'	14'	13'	12'	11'	11'	10'	9'	8'	7'	6'	6'	5'	4'	3'	2'	2'	1'	0'	1'	2'	3'	3'	4'	5'	12°S
14°S	16'	15'	14'	13'	12'	11'	11'	10'	9'	8'	7'	7'	6'	5'	4'	3'	2'	2'	1'	0'	1'	2'	3'	4'	4'	14°S
16°S	17'	16'	15'	14'	13'	12'	11'	11'	10'	9'	8'	7'	7'	6'	5'	4'	3'	3'	2'	1'	0'	1'	2'	3'	4'	16°S
18°S	18'	17'	16'	15'	14'	13'	12'	11'	11'	10'	9'	8'	7'	7'	6'	5'	4'	3'	3'	2'	1'	0'	1'	2'	3'	18°S
20°S	19'	18'	17'	16'	15'	14'	13'	12'	12'	11'	10'	9'	8'	8'	7'	6'	5'	4'	3'	3'	2'	1'	0'	1'	2'	20°S
22°S	19'	19'	18'	17'	16'	15'	14'	13'	12'	12'	11'	10'	9'	8'	8'	7'	6'	5'	4'	4'	3'	2'	1'	0'	1'	22°S
24°S	20'	19'	19'	18'	17'	16'	15'	14'	13'	13'	12'	11'	10'	9'	9'	8'	7'	6'	5'	4'	4'	3'	2'	1'	0'	24°S
26°S	21'	20'	20'	19'	18'	17'	16'	15'	14'	14'	13'	12'	11'	10'	10'	9'	8'	7'	6'	5'	5'	4'	3'	2'	1'	26°S
28°S	22'	21'	21'	20'	19'	18'	17'	16'	15'	15'	14'	13'	12'	11'	11'	10'	9'	8'	7'	6'	6'	5'	4'	3'	2'	28°S
30°S	23'	22'	22'	21'	20'	19'	18'	17'	16'	16'	15'	14'	13'	12'	12'	11'	10'	9'	8'	8'	7'	6'	5'	4'	3'	30°S
32°S	25'	24'	23'	22'	21'	20'	19'	18'	18'	17'	16'	15'	14'	14'	13'	12'	11'	10'	9'	9'	8'	7'	6'	5'	4'	32°S
34°S	26'	25'	24'	23'	22'	21'	20'	19'	19'	18'	17'	16'	15'	15'	14'	13'	12'	11'	11'	10'	9'	8'	7'	6'	5'	34°S
36°S	27'	26'	25'	24'	23'	22'	22'	21'	20'	19'	18'	17'	17'	16'	15'	14'	13'	13'	12'	11'	10'	9'	8'	7'	6'	36°S
38°S	28'	27'	26'	25'	24'	24'	23'	22'	21'	20'	20'	19'	18'	17'	16'	15'	15'	14'	13'	12'	11'	10'	10'	9'	8'	38°S
40°S	29'	28'	28'	27'	26'	25'	24'	23'	22'	22'	21'	20'	19'	18'	18'	17'	16'	15'	14'	14'	13'	12'	11'	10'	9'	40°S
42°S	31'	30'	29'	28'	27'	26'	26'	25'	24'	23'	22'	21'	21'	20'	19'	18'	17'	17'	16'	15'	14'	13'	12'	11'	10'	42°S
44°S	32'	31'	30'	30'	29'	28'	27'	26'	25'	25'	24'	23'	22'	21'	21'	20'	19'	18'	17'	16'	16'	15'	14'	13'	12'	44°S
46°S	34'	33'	32'	31'	30'	29'	29'	28'	27'	26'	25'	25'	24'	23'	22'	21'	21'	20'	19'	18'	17'	16'	15'	14'	14'	46°S
48°S	36'	35'	34'	33'	32'	31'	30'	29'	29'	28'	27'	26'	25'	25'	24'	23'	22'	21'	21'	20'	19'	18'	17'	16'	15'	48°S
50°S	38'	37'	36'	35'	34'	33'	32'	31'	31'	30'	29'	28'	27'	27'	26'	25'	24'	23'	22'	22'	21'	20'	19'	18'	17'	50°S
52°S	40'	39'	38'	37'	36'	35'	34'	33'	33'	32'	31'	30'	29'	29'	28'	27'	26'	25'	24'	24'	23'	22'	21'	20'	19'	52°S
54°S	42'	41'	40'	39'	38'	37'	36'	36'	35'	34'	33'	32'	32'	31'	30'	29'	28'	27'	26'	26'	25'	24'	23'	22'	21'	54°S
56°S	44'	43'	42'	41'	41'	40'	39'	38'	37'	36'	36'	35'	34'	33'	32'	32'	31'	30'	29'	28'	27'	27'	26'	25'	24'	56°S
58°S	47'	46'	45'	44'	43'	42'	42'	41'	40'	39'	38'	37'	37'	36'	35'	34'	33'	33'	32'	31'	30'	29'	28'	27'	26'	58°S
60°S	50'	49'	48'	47'	46'	45'	45'	44'	43'	42'	41'	40'	40'	39'	38'	37'	36'	36'	35'	34'	33'	32'	31'	30'	29'	60°S
Lat.	24°	22°	20°	18°	16°	14°	12°	10°	8°	6°	4°	2°	0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	Lat.

To find the correction to be applied to the GHA derived from A.M.–P.M. equal altitude sights:

Find the meeting point of your DR latitude (left column) and the sun's declination (top line). This is the number of arc minutes to add or subtract from the GHA.

Add to GHA if vessel is moving *away* from the sun; *subtract* from GHA if vessel is moving *toward* the sun.