

TABLE 19

Table of Offsets

TABLE 19 Table of Offsets												
	<i>DISTANCE ALONG POSITION LINE FROM INTERCEPT</i>											
	00'	05'	10'	15'	20'	25'	30'	35'	40'	45'		
ALT.	OFFSETS										ALT.	
0 °	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0 °
30	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2	30
40	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.3	40
50	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.3	50
55	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.3	0.3	0.4	55
60	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.5	60
62	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.5	62
64	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.6	64
66	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.7	66
68	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.6	0.7	0.7	68
70	0.0	0.0	0.0	0.1	0.2	0.2	0.4	0.5	0.6	0.8	0.8	70
71	0.0	0.0	0.0	0.1	0.2	0.3	0.4	0.5	0.7	0.9	0.9	71
72	0.0	0.0	0.0	0.1	0.2	0.3	0.4	0.5	0.7	0.9	0.9	72
73	0.0	0.0	0.0	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.0	73
74	0.0	0.0	0.1	0.1	0.2	0.3	0.5	0.6	0.8	1.0	1.0	74
75	0.0	0.0	0.1	0.1	0.2	0.3	0.5	0.7	0.9	1.1	1.1	75
76	0.0	0.0	0.1	0.1	0.2	0.4	0.5	0.7	0.9	1.2	1.2	76
77	0.0	0.0	0.1	0.1	0.3	0.4	0.6	0.8	1.0	1.3	1.3	77
78	0.0	0.0	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.4	1.4	78
79	0.0	0.0	0.1	0.2	0.3	0.5	0.7	0.9	1.2	1.5	1.5	79
80.0	0.0	0.0	0.1	0.2	0.3	0.5	0.7	1.0	1.3	1.7	1.7	80.0
80.5	0.0	0.0	0.1	0.2	0.3	0.5	0.8	1.1	1.4	1.8	1.8	80.5
81.0	0.0	0.0	0.1	0.2	0.4	0.6	0.8	1.1	1.5	1.9	1.9	81.0
81.5	0.0	0.0	0.1	0.2	0.4	0.6	0.9	1.2	1.6	2.0	2.0	81.5
82.0	0.0	0.0	0.1	0.2	0.4	0.6	0.9	1.3	1.7	2.1	2.1	82.0
82.5	0.0	0.0	0.1	0.2	0.4	0.7	1.0	1.4	1.8	2.2	2.2	82.5
83.0	0.0	0.0	0.1	0.3	0.5	0.7	1.1	1.5	1.9	2.4	2.4	83.0
83.5	0.0	0.0	0.1	0.3	0.5	0.8	1.2	1.6	2.0	2.6	2.6	83.5
84.0	0.0	0.0	0.1	0.3	0.5	0.9	1.2	1.7	2.2	2.8	2.8	84.0
84.5	0.0	0.0	0.2	0.3	0.6	1.0	1.4	1.9	2.4	3.1	3.1	84.5
85.0	0.0	0.0	0.2	0.4	0.7	1.0	1.5	2.1	2.7	3.4	3.4	85.0
85.5	0.0	0.0	0.2	0.4	0.7	1.2	1.7	2.3	3.0	3.8	3.8	85.5
86.0	0.0	0.1	0.2	0.5	0.8	1.3	1.9	2.6	3.4	4.3	4.3	86.0
86.5	0.0	0.1	0.2	0.5	1.0	1.5	2.2	2.9	3.8	4.9	4.9	86.5
87.0	0.0	0.1	0.3	0.6	1.1	1.7	2.5	3.4	4.5	5.7	5.7	87.0
87.5	0.0	0.1	0.3	0.8	1.3	2.1	3.0	4.1	5.4	6.9	6.9	87.5
88.0	0.0	0.1	0.4	0.9	1.7	2.7	3.8	5.2	6.9	8.8	8.8	88.0
88.5	0.0	0.2	0.6	1.3	2.3	3.5	5.1	7.1	9.4	12.1	12.1	88.5
89.0	0.0	0.3	0.8	1.9	3.4	5.5	8.0	11.3	15.3	20.3	20.3	89.0

TABLE 20 Meridian Angle and Altitude of a Body on the Prime Vertical Circle

Table with columns for Latitude (0-85) and Declination (0-5 degrees). Each declination column has two sub-columns for Altitude (t, Alt.). Values are in italics.

Numbers in italics indicate nearest approach to prime vertical

TABLE 20 Meridian Angle and Altitude of a Body on the Prime Vertical Circle

Table with columns for Latitude (0-85) and Declination (6-11 degrees). Each declination column has two sub-columns for Altitude (t, Alt.). Values are in italics.

Numbers in italics indicate nearest approach to prime vertical

TABLE 21

Latitude and Longitude Factors

f, the change of latitude for a unit change in longitude
 F, the change of longitude for a unit change in latitude

Azimuth angle	Latitude										Azimuth angle												
	60°		62°		64°		66°		68°														
	f	F	f	F	f	F	f	F	f	F													
0	0.00	—	0.00	—	0.00	—	0.00	—	0.00	—	180												
1	0.01	114.58	0.01	122.03	0.01	130.69	0.01	140.85	0.01	152.93	179												
2	0.02	57.27	0.02	61.00	0.02	65.32	0.01	70.40	0.01	76.44	178												
3	0.03	38.16	0.02	40.64	0.02	43.53	0.02	46.91	0.02	50.94	177												
4	0.03	28.60	0.03	30.46	0.03	32.62	0.03	35.16	0.03	38.18	176												
5	0.04	22.86	0.04	24.35	0.04	26.07	0.04	28.10	0.03	30.51	175												
6	0.05	19.03	0.05	20.27	0.05	21.70	0.04	23.39	0.04	25.40	174												
7	0.06	16.29	0.06	17.35	0.05	18.58	0.05	20.02	0.05	21.74	173												
8	0.07	14.23	0.07	15.16	0.06	16.23	0.06	17.49	0.05	18.99	172												
9	0.08	12.63	0.07	13.45	0.07	14.40	0.06	15.52	0.06	16.85	171												
10	0.09	11.34	0.08	12.08	0.08	12.94	0.07	13.94	0.07	15.14	170												
12	0.11	9.41	0.10	10.02	0.09	10.73	0.09	11.57	0.08	12.56	168												
14	0.12	8.02	0.12	8.54	0.11	9.15	0.10	9.86	0.09	10.71	166												
16	0.14	6.97	0.13	7.43	0.13	7.96	0.12	8.57	0.11	9.31	164												
18	0.16	6.15	0.15	6.56	0.14	7.02	0.13	7.57	0.12	8.22	162												
20	0.18	5.49	0.17	5.85	0.16	6.27	0.15	6.75	0.14	7.33	160												
22	0.20	4.95	0.19	5.27	0.18	5.65	0.16	6.09	0.15	6.61	158												
24	0.22	4.49	0.21	4.78	0.20	5.12	0.18	5.52	0.17	6.00	156												
26	0.24	4.10	0.23	4.37	0.21	4.68	0.20	5.04	0.18	5.47	154												
28	0.27	3.76	0.25	4.01	0.23	4.29	0.22	4.62	0.20	5.02	152												
30	0.29	3.46	0.27	3.69	0.25	3.95	0.23	4.26	0.22	4.62	150												
32	0.31	3.20	0.29	3.41	0.27	3.65	0.25	3.93	0.23	4.27	148												
34	0.34	2.96	0.32	3.16	0.30	3.38	0.27	3.65	0.25	3.96	146												
36	0.36	2.75	0.34	2.93	0.32	3.14	0.30	3.38	0.27	3.67	144												
38	0.39	2.56	0.37	2.73	0.34	2.92	0.32	3.15	0.29	3.42	142												
40	0.42	2.38	0.39	2.54	0.37	2.72	0.34	2.93	0.31	3.18	140												
42	0.45	2.22	0.42	2.37	0.39	2.53	0.37	2.73	0.34	2.96	138												
44	0.48	2.07	0.45	2.21	0.42	2.36	0.39	2.55	0.36	2.76	136												
46	0.52	1.93	0.49	2.06	0.45	2.20	0.42	2.37	0.39	2.58	134												
48	0.56	1.80	0.52	1.92	0.49	2.05	0.45	2.21	0.42	2.40	132												
50	0.60	1.68	0.56	1.79	0.52	1.91	0.48	2.06	0.45	2.24	130												
52	0.64	1.56	0.60	1.66	0.56	1.78	0.52	1.92	0.48	2.09	128												
54	0.69	1.45	0.65	1.55	0.60	1.66	0.56	1.79	0.52	1.94	126												
56	0.74	1.35	0.70	1.44	0.65	1.54	0.60	1.66	0.56	1.80	124												
58	0.80	1.25	0.75	1.33	0.70	1.43	0.65	1.54	0.60	1.67	122												
60	0.87	1.15	0.81	1.23	0.76	1.32	0.70	1.42	0.65	1.54	120												
62	0.94	1.06	0.88	1.13	0.82	1.21	0.76	1.31	0.70	1.42	118												
64	1.03	0.97	0.96	1.04	0.90	1.11	0.83	1.20	0.77	1.30	116												
66	1.12	0.89	1.05	0.95	0.98	1.02	0.91	1.09	0.84	1.19	114												
68	1.24	0.81	1.16	0.86	1.09	0.92	1.01	0.99	0.93	1.08	112												
70	1.37	0.73	1.29	0.78	1.20	0.83	1.12	0.89	1.03	0.97	110												
72	1.54	0.65	1.44	0.69	1.35	0.74	1.25	0.80	1.15	0.87	108												
74	1.74	0.57	1.64	0.61	1.53	0.65	1.42	0.70	1.31	0.77	106												
76	2.01	0.50	1.88	0.53	1.76	0.57	1.63	0.61	1.50	0.67	104												
78	2.35	0.42	2.21	0.45	2.06	0.48	1.91	0.52	1.76	0.57	102												
80	2.84	0.35	2.66	0.38	2.49	0.40	2.31	0.43	2.12	0.47	100												
81	3.16	0.32	2.96	0.34	2.77	0.36	2.57	0.39	2.37	0.42	99												
82	3.56	0.28	3.34	0.30	3.12	0.32	2.89	0.35	2.67	0.38	98												
83	4.07	0.25	3.82	0.26	3.57	0.28	3.31	0.30	3.05	0.33	97												
84	4.76	0.21	4.47	0.22	4.17	0.24	3.87	0.26	3.56	0.28	96												
85	5.72	0.17	5.37	0.19	5.01	0.20	4.65	0.22	4.28	0.23	95												
86	7.15	0.14	6.71	0.15	6.27	0.16	5.82	0.17	5.36	0.19	94												
87	9.54	0.10	8.96	0.11	8.36	0.12	7.76	0.13	7.15	0.14	93												
88	14.32	0.07	13.44	0.07	12.55	0.08	11.65	0.09	10.73	0.09	92												
89	28.65	0.03	26.90	0.04	25.11	0.04	23.30	0.04	21.46	0.05	91												
90	—	0.00	—	0.00	—	0.00	—	0.00	—	0.00	90												
	60°		62°		64°		66°		68°														
Correction to latitude = f					error in longitude							Correction to longitude = F					error in latitude						

TABLE 23
Correction of Amplitude as Observed on the Visible Horizon

Latitude	Declination													Latitude
	0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	
0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
10	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	10
15	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	15
20	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	20
25	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	25
30	0.4	0.4	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	30
32	0.4	0.4	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	32
34	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	34
36	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.6	0.6	0.6	36
38	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	38
40	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.7	40
42	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	42
44	0.7	0.7	0.7	0.6	0.6	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.9	44
46	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.9	46
48	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.9	1.0	1.0	1.0	48
50	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.9	1.0	1.0	1.1	1.0	50
51	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.9	1.0	1.1	1.1	1.1	51
52	0.9	0.9	0.9	0.9	0.9	0.9	1.0	1.0	1.0	1.1	1.1	1.1	1.3	52
53	0.9	0.9	0.9	0.9	0.9	0.9	1.0	1.0	1.0	1.1	1.2	1.2	1.3	53
54	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.1	1.2	1.2	1.3	1.3	54
55	1.0	1.0	1.0	1.0	1.1	1.1	1.0	1.2	1.2	1.2	1.3	1.3	1.4	55
56	1.0	1.0	1.0	1.0	1.1	1.1	1.1	1.2	1.2	1.2	1.3	1.3	1.4	56
57	1.1	1.1	1.1	1.1	1.1	1.1	1.2	1.2	1.3	1.3	1.4	1.5	1.7	57
58	1.1	1.1	1.1	1.1	1.2	1.2	1.2	1.2	1.4	1.4	1.5	1.6	1.8	58
59	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.3	1.3	1.3	1.4	1.6	1.9	59
60	1.2	1.2	1.2	1.2	1.2	1.3	1.3	1.4	1.4	1.5	1.7	1.9	2.2	60
61	1.3	1.3	1.3	1.3	1.3	1.3	1.4	1.5	1.6	1.7	1.8	2.0	2.4	61
62	1.3	1.3	1.3	1.3	1.4	1.4	1.5	1.6	1.6	1.7	1.9	2.3	2.6	62
63	1.3	1.4	1.4	1.4	1.4	1.5	1.5	1.6	1.7	1.9	2.1	2.5	3.3	63
64	1.4	1.4	1.4	1.5	1.5	1.6	1.7	1.7	1.8	2.1	2.3	2.9	4.3	64
65.0	1.5	1.5	1.5	1.6	1.6	1.6	1.7	1.9	2.0	2.2	2.7	3.5	7.2	65.0
65.5	1.5	1.5	1.5	1.6	1.6	1.7	1.8	1.9	2.1	2.3	2.8	3.9		65.5
66.0	1.6	1.6	1.6	1.6	1.7	1.7	1.9	2.0	2.1	2.5	3.1	4.4		66.0
66.5	1.6	1.6	1.6	1.7	1.7	1.8	1.9	2.1	2.3	2.6	3.3	5.4		66.5
67.0	1.7	1.7	1.7	1.7	1.7	1.8	2.0	2.1	2.3	2.8	3.6	7.5		67.0
67.5	1.7	1.7	1.7	1.7	1.8	1.9	2.0	2.2	2.5	2.9	4.1			67.5
68.0	1.7	1.8	1.8	1.8	1.9	2.0	2.1	2.3	2.6	3.2	4.7			68.0
68.5	1.8	1.8	1.8	1.8	2.0	2.0	2.2	2.4	2.8	3.5	5.7			68.5
69.0	1.8	1.9	1.9	1.9	1.9	2.1	2.2	2.5	2.9	3.8	7.9			69.0
69.5	1.9	1.9	1.9	1.9	2.1	2.2	2.4	2.6	3.2	4.3				69.5
70.0	1.9	1.9	1.9	2.0	2.1	2.3	2.5	2.8	3.4	5.0				70.0
70.5	2.0	2.0	2.0	2.2	2.2	2.4	2.6	3.0	3.6	6.0				70.5
71.0	2.0	2.0	2.1	2.2	2.3	2.5	2.7	3.1	4.1	8.3				71.0
71.5	2.1	2.1	2.2	2.3	2.4	2.5	2.9	3.3	4.6					71.5
72.0	2.2	2.2	2.3	2.3	2.4	2.6	3.0	3.6	5.3					72.0
72.5	2.2	2.2	2.3	2.4	2.5	2.7	3.2	3.9	6.4					72.5
73.0	2.3	2.3	2.4	2.5	2.7	2.9	3.4	4.4	8.9					73.0
73.5	2.4	2.4	2.5	2.6	2.8	3.0	3.6	4.9						73.5
74.0	2.4	2.4	2.5	2.7	2.9	3.3	3.8	5.6						74.0
74.5	2.5	2.6	2.7	2.8	3.0	3.4	4.2	6.8						74.5
75.0	2.6	2.7	2.8	2.9	3.2	3.7	4.7	9.3						75.0
75.5	2.7	2.8	2.8	3.0	3.3	3.9	5.3							75.5
76.0	2.8	2.8	2.9	3.2	3.5	4.2	5.6							76.0
76.5	2.9	3.0	3.1	3.3	3.7	4.5	7.3							76.5
77.0	3.0	3.1	3.2	3.5	4.0	5.1	10.2							77.0

For the sun, a planet, or a star, apply the correction to the observed amplitude in the direction away from the elevated pole. For the moon apply half the correction toward the elevated pole.

TABLE 24
Altitude Factor

a, the change of altitude in one minute from meridian transit.

Table with columns for Latitude (0 to 60) and Declination (38° to 50°) for same name as latitude, upper transit. Values range from 0.2 to 15.5.

TABLE 24
Altitude Factor

a, the change of altitude in one minute from meridian transit.

Table with columns for Latitude (0 to 60) and Declination (38° to 50°) for contrary name to latitude, upper transit. Values range from 0.7 to 2.5.

TABLE 26						
Time Zones, Zone Descriptions, and Suffixes						
ZONE	ZD	SUFFIX	ZONE	ZD	SUFFIX	
7 ¹ / ₂ ° W to 7 ¹ / ₂ °E.	0	Z	7 ¹ / ₂ ° W. to 22 ¹ / ₂ ° W.	+ 1	N	
7 ¹ / ₂ ° E. to 22 ¹ / ₂ °E.	- 1	A	22 ¹ / ₂ ° W. to 37 ¹ / ₂ ° W.	+ 2	O	
22 ¹ / ₂ ° E. to 37 ¹ / ₂ °E.	- 2	B	37 ¹ / ₂ ° W. to 52 ¹ / ₂ ° W.	+ 3	P	
37 ¹ / ₂ ° E. to 52 ¹ / ₂ °E.	- 3	C	52 ¹ / ₂ ° W. to 67 ¹ / ₂ ° W.	+ 4	Q	
52 ¹ / ₂ ° E. to 67 ¹ / ₂ °E.	- 4	D	67 ¹ / ₂ ° W. to 82 ¹ / ₂ ° W.	+ 5	R	
67 ¹ / ₂ ° E. to 82 ¹ / ₂ °E.	- 5	E	82 ¹ / ₂ ° W. to 97 ¹ / ₂ ° W.	+ 6	S	
82 ¹ / ₂ ° E. to 97 ¹ / ₂ °E.	- 6	F	97 ¹ / ₂ ° W. to 112 ¹ / ₂ ° W.	+ 7	T	
97 ¹ / ₂ ° E. to 112 ¹ / ₂ °E.	- 7	G	112 ¹ / ₂ ° W. to 127 ¹ / ₂ ° W.	+ 8	U	
112 ¹ / ₂ ° E. to 127 ¹ / ₂ °E.	- 8	H	127 ¹ / ₂ ° W. to 142 ¹ / ₂ ° W.	+ 9	V	
127 ¹ / ₂ ° E. to 142 ¹ / ₂ °E.	- 9	I	142 ¹ / ₂ ° W. to 157 ¹ / ₂ ° W.	+ 10	W	
142 ¹ / ₂ ° E. to 157 ¹ / ₂ °E.	- 10	K	157 ¹ / ₂ ° W. to 172 ¹ / ₂ ° W.	+ 11	X	
157 ¹ / ₂ ° E. to 172 ¹ / ₂ °E.	- 11	L	172 ¹ / ₂ ° W. to 180°	+ 12	Y	
172 ¹ / ₂ ° E. to 180°E.	- 12	M				

NOTE. – G M T is indicated by suffix Z. Standard times as kept in various places or countries are listed in *The Nautical Almanac* and *The Air Almanac*.

TABLE 27
Altitude Correction for Air Temperature

Altitude ° / '	Temperature—degrees Fahrenheit								Altitude ° / '
	- 40	- 30	- 20	- 10	0	+ 10	+ 20	+ 30	
- 0 10	- 7.9	- 6.8	- 5.8	- 4.9	- 4.0	- 3.1	- 2.3	- 1.5	- 0 10
0 00	7.4	6.4	5.5	4.6	3.8	2.9	2.2	1.4	0 00
+ 0 10	6.9	6.0	5.2	4.3	3.5	2.8	2.0	1.3	+ 0 10
0 20	6.6	5.7	4.9	4.1	3.3	2.6	1.9	1.2	0 20
0 30	6.1	5.3	4.6	3.8	3.1	2.4	1.8	1.2	0 30
+ 0 45	- 5.7	- 4.9	- 4.2	- 3.5	- 2.9	- 2.2	- 1.6	- 1.1	+ 0 45
1 00	5.2	4.5	3.9	3.2	2.6	2.1	1.5	1.0	1 00
1 20	4.7	4.1	3.5	2.9	2.4	1.9	1.4	0.9	1 20
1 40	4.3	3.7	3.2	2.7	2.2	1.7	1.2	0.8	1 40
2 00	3.9	3.4	2.9	2.4	2.0	1.6	1.1	0.7	2 00
+ 2 30	- 3.4	- 3.0	- 2.6	- 2.1	- 1.8	- 1.4	- 1.0	- 0.7	+ 2 30
3 00	3.1	2.7	2.3	1.9	1.6	1.2	0.9	0.6	3 00
4	2.5	2.2	1.9	1.6	1.3	1.0	0.7	0.5	4
5	2.1	1.8	1.6	1.3	1.1	0.8	0.6	0.4	5
6	1.8	1.6	1.4	1.1	0.9	0.7	0.5	0.3	6
+ 7	- 1.6	- 1.4	- 1.2	- 1.0	- 0.8	- 0.6	- 0.5	- 0.3	+ 7
8	1.4	1.2	1.0	0.9	0.7	0.6	0.4	0.3	8
9	1.3	1.1	0.9	0.8	0.6	0.5	0.4	0.2	9
10	1.1	1.0	0.8	0.7	0.6	0.5	0.3	0.2	10
15	0.8	0.7	0.6	0.5	0.4	0.3	0.2	0.1	15
+ 20	- 0.6	- 0.5	- 0.4	- 0.3	- 0.3	- 0.2	- 0.2	- 0.1	+ 20
30	0.4	0.3	0.3	0.2	0.2	0.1	0.1	0.1	30
50	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	50
70	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	70
+ 90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	+ 90

Altitude ° / '	Temperature—degrees Fahrenheit								Altitude ° / '
	+ 40	+ 50	+ 60	+ 70	+ 80	+ 90	+ 100	+ 110	
- 0 10	- 0.7	0.0	+ 0.7	+ 1.4	+ 2.0	+ 2.7	+ 3.3	+ 3.9	- 0 10
0 00	0.7	0.0	0.7	1.3	1.9	2.5	3.1	3.6	0 00
+ 0 10	0.6	0.0	0.6	1.2	1.8	2.4	2.9	3.4	+ 0 10
0 20	0.6	0.0	0.6	1.2	1.7	2.2	2.7	3.2	0 20
0 30	0.6	0.0	0.6	1.1	1.6	2.1	2.6	3.0	0 30
+ 0 45	- 0.5	0.0	+ 0.5	+ 1.0	+ 1.5	+ 1.9	+ 2.4	+ 2.8	+ 0 45
1 00	0.5	0.0	0.5	0.9	1.4	1.8	2.2	2.6	1 00
1 20	0.4	0.0	0.4	0.8	1.2	1.6	2.0	2.3	1 20
1 40	0.4	0.0	0.4	0.8	1.1	1.5	1.8	2.1	1 40
2 00	0.4	0.0	0.4	0.7	1.0	1.3	1.6	1.9	2 00
+ 2 30	- 0.3	0.0	+ 0.3	+ 0.6	+ 0.9	+ 1.2	+ 1.4	+ 1.7	+ 2 30
3 00	0.3	0.0	0.3	0.5	0.8	1.0	1.3	1.5	3 00
4	0.2	0.0	0.2	0.4	0.7	0.9	1.1	1.2	4
5	0.2	0.0	0.2	0.4	0.6	0.7	0.9	1.0	5
6	0.2	0.0	0.2	0.3	0.5	0.6	0.8	0.9	6
+ 7	- 0.1	0.0	+ 0.1	+ 0.3	+ 0.4	+ 0.5	+ 0.7	+ 0.8	+ 7
8	0.1	0.0	0.1	0.2	0.4	0.5	0.6	0.7	8
9	0.1	0.0	0.1	0.2	0.3	0.4	0.5	0.6	9
10	0.1	0.0	0.1	0.2	0.3	0.4	0.5	0.6	10
15	0.1	0.0	0.1	0.1	0.2	0.3	0.3	0.4	15
+ 20	- 0.1	0.0	+ 0.1	+ 0.1	+ 0.1	+ 0.2	+ 0.2	+ 0.3	+ 20
30	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.2	30
50	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	50
70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	70
+ 90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	+ 90

TABLE 28
Altitude Correction for Atmospheric Pressure

Altitude ° / '	Pressure in inches or millibars— Subtract correction from sextant or rectified altitude								Altitude ° / '
	31.2	31.0	30.8	30.6	30.4	30.2	30.0	29.8	
	1056.56	1049.78	1043.01	1036.24	1029.46	1022.69	1015.92	1009.15	
- 0 10	- 1.7	- 1.4	- 1.2	- 1.0	- 0.7	- 0.5	- 0.2	0.0	- 0 10
0 00	1.6	1.4	1.1	0.9	0.7	0.4	0.2	0.0	0 00
+ 0 10	1.5	1.3	1.1	0.8	0.6	0.4	0.2	0.0	+ 0 10
0 20	1.4	1.2	1.0	0.8	0.6	0.4	0.2	0.0	0 20
0 30	1.3	1.1	0.9	0.7	0.6	0.4	0.2	0.0	0 30
+ 0 45	- 1.2	- 1.0	- 0.9	- 0.7	- 0.5	- 0.3	- 0.2	- 0.0	+ 0 45
1 00	1.1	1.0	0.8	0.6	0.5	0.3	0.1	0.0	1 00
1 20	1.0	0.9	0.7	0.6	0.4	0.3	0.1	0.0	1 20
1 40	0.9	0.8	0.7	0.5	0.4	0.3	0.1	0.0	1 40
2 00	0.8	0.7	0.6	0.5	0.4	0.2	0.1	0.0	2 00
+ 2 30	- 0.7	- 0.6	- 0.5	- 0.4	- 0.3	- 0.2	- 0.1	0.0	+ 2 30
3 00	0.7	0.6	0.5	0.4	0.3	0.2	0.1	0.0	3 00
4	0.5	0.5	0.4	0.3	0.2	0.1	0.1	0.0	4
5	0.5	0.4	0.3	0.3	0.2	0.1	0.0	0.0	5
6	0.4	0.3	0.3	0.2	0.2	0.1	0.0	0.0	6
+ 7	- 0.3	- 0.3	- 0.2	- 0.2	- 0.1	- 0.1	- 0.0	- 0.0	+ 7
8	0.3	0.3	0.2	0.2	0.1	0.1	0.0	0.0	8
9	0.3	0.2	0.2	0.2	0.1	0.1	0.0	0.0	9
10	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.0	10
15	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	15
+ 20	- 0.1	- 0.1	- 0.1	- 0.1	- 0.1	- 0.0	- 0.0	- 0.0	+ 20
30	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	30
50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50
70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	70
+ 90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	+ 90

Altitude ° / '	Pressure in inches or millibars— Add correction to sextant or rectified altitude								Altitude ° / '
	29.6	29.4	29.2	29.0	28.8	28.6	28.4	28.2	
	1002.37	995.60	988.83	982.05	975.28	968.51	961.74	954.96	
- 0 10	+ 0.3	+ 0.5	+ 0.8	+ 1.0	+ 1.3	+ 1.5	+ 1.8	+ 2.0	- 0 10
0 00	0.3	0.5	0.7	1.0	1.2	1.4	1.6	1.9	0 00
+ 0 10	0.2	0.5	0.7	0.9	1.1	1.3	1.5	1.8	+ 0 10
0 20	0.2	0.4	0.6	0.8	1.1	1.3	1.5	1.7	0 20
0 30	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	0 30
+ 0 45	+ 0.2	+ 0.4	+ 0.6	+ 0.7	+ 0.9	+ 1.1	+ 1.3	+ 1.4	+ 0 45
1 00	0.2	0.3	0.5	0.7	0.8	1.0	1.2	1.3	1 00
1 20	0.2	0.3	0.5	0.6	0.8	0.9	1.1	1.2	1 20
1 40	0.2	0.3	0.4	0.6	0.7	0.8	1.0	1.1	1 40
2 00	0.1	0.3	0.4	0.5	0.6	0.8	0.9	1.0	2 00
+ 2 30	+ 0.1	+ 0.2	+ 0.3	+ 0.4	+ 0.6	+ 0.7	+ 0.8	+ 0.9	+ 2 30
3 00	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	3 00
4	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.6	4
5	0.1	0.1	0.2	0.3	0.3	0.4	0.5	0.5	5
6	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	6
+ 7	+ 0.1	+ 0.1	+ 0.2	+ 0.2	+ 0.3	+ 0.3	+ 0.4	+ 0.4	+ 7
8	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	8
9	0.0	0.1	0.1	0.2	0.2	0.2	0.3	0.3	9
10	0.0	0.1	0.1	0.1	0.2	0.2	0.3	0.3	10
15	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	15
+ 20	+ 0.0	+ 0.0	+ 0.1	+ 0.1	+ 0.1	+ 0.1	+ 0.1	+ 0.1	+ 20
30	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	30
50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50
70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	70
+ 90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	+ 90