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978-1-108-06892-5 - Tables: Requisite to be Used with the Nautical Ephemeris, for Finding the Latitude and Longitude at Sea: Published by Order of the Commissioners of Longitude
Nevil Maskelyne
Excerpt
More information

TABLE I.
The Refractions of the Heavenly Bodies in Altitude.

App. Alt.	Refrac.	App. Alt.	Refrac.	App. Alt.	Refrac.
D. M.	M. S.	D. M.	M. S.	D.	M. S.
0. 0	33. 0	6.30	7.51	30.	1.38
0. 5	32.10	6.40	7.40	31	1.35
0.10	31.22	6.50	7.30	32	1.31
0.15	30.35	7. 0	7.20	33	1.28
0.20	29.50	7.10	7.11	34	1.24
0.25	29. 6	7.20	7. 2	35	1.21
0.30	28.22	7.30	6.53	36	1.18
0.35	27.41	7.40	6.45	37	1.16
0.40	27. 0	7.50	6.37	38	1.13
0.45	26.20	8. 0	6.29	39	1.10
0.50	25.42	8.10	6.22	40	1. 8
0.55	25. 5	8.20	6.15	41	1. 5
1. 0	24.29	8.30	6. 8	42	1. 3
1. 5	23.54	8.40	6. 1	43	1. 1
1.10	23.20	8.50	5.55	44	0.59
1.15	22.47	9. 0	5.48	45	0.57
1.20	22.15	9.10	5.42	46	0.55
1.25	21.44	9.20	5.36	47	0.53
1.30	21.15	9.30	5.31	48	0.51
1.35	20.46	9.40	5.25	49	0.49
1.40	20.18	9.50	5.20	50.	0.48
1.45	19.51	10. 0	5.15	51	0.46
1.50	19.25	10.15	5. 7	52	0.44
1.55	19. 0	10.30	5. 0	53	0.43
2. 0	18.35	10.45	4.53	54	0.41
2. 5	18.11	11. 0	4.47	55	0.40
2.10	17.48	11.15	4.40	56	0.38
2.15	17.26	11.30	4.34	57	0.37
2.20	17. 4	11.45	4.29	58	0.35
2.25	16.44	12. 0	4.23	59	0.34
2.30	16.24	12.20	4.16	60.	0.33
2.35	16. 4	12.40	4. 9	61	0.32
2.40	15.45	13. 0	4. 3	62.	0.30
2.45	15.27	13.20	3.57	63	0.29
2.50	15. 9	13.40	3.51	64	0.28
2.55	14.52	14. 0	3.45	65	0.26
3. 0	14.36	14.20	3.40	66	0.25
3. 5	14.20	14.40	3.35	67	0.24
3.10	14. 4	15. 0	3.30	68	0.23
3.15	13.49	15.30	3.24	69	0.22
3.20	13.34	16. 0	3.17	70.	0.21
3.25	13.20	16.30	3.10	71.	0.19
3.30	13. 6	17. 0	3. 4	72	0.18
3.40	12.40	17.30	2.59	73	0.17
3.50	12.15	18. 0	2.54	74	0.16
4. 0	11.51	18.30	2.49	75	0.15
4.10	11.29	19. 0	2.44	76	0.14
4.20	11. 8	19.30	2.39	77	0.13
4.30	10.48	20. 0	2.35	78	0.12
4.40	10.29	20.30	2.31	79	0.11
4.50	10.11	21. 0	2.27	80	0.10
5. 0	9.54	21.30	2.24	81	0. 9
5.10	9.38	22. 0	2.20	82	0. 8
5.20	9.23	23. 0	2.14	83	0. 7
5.30	9. 8	24. 0	2. 7	84	0. 6
5.40	8.54	25. 0	2. 2	85	0. 5
5.50	8.41	26. 0	1.56	86	0. 4
6. 0	8.28	27. 0	1.51	87	0. 3
6.10	8.15	28. 0	1.47	88	0. 2
6.20	8. 3	29. 0	1.42	89	0. 1

TABLE II.
Depression or Dip of the Horizon of the Sea.

Height of the Eye.	Dip of the Horizon.
Feet.	M. S.
1	0.57
2	1.21
3	1.39
4	1.55
5	2. 8
6	2.20
7	2.31
8	2.42
9	2.52
10	3. 1
11	3.10
12	3.18
13	3.26
14	3.34
15	3.42
16	3.49
17	3.56
18	4. 3
19	4.10
20	4.16
21	4.22
22	4.28
23	4.34
24	4.40
26	4.52
28	5. 3
30	5.14
35	5.39
40	6. 2
45	6.24
50	6.44
60	7.23
70	7.59
80	8.32
90	9. 3
100	9.33

TABLE III.
The Sun's Parallax in Altitude.

Sun's Alt.	Sun's Parallax.
D.	S.
0	9
10	9
20	8
30	8
40	7
50	6
55	5
60	4
65	4
70	3
75	2
80	2
85	1
90	0

TABLE IV.
Augmentation of the Moon's Semi-diameter.

Moon's Alt.	Augmentation.
D.	S.
0	0
5	1
10	3
15	4
20	6
25	7
30	8
35	9
40	10
45	11
50	12
55	13
60	14
70	15
80 &c.	16

TABLE V. Dip of the Sea at different Distances from the Observer.

Dist. of the Land in Sea Miles.	Height of the Eye above the Sea in Feet.							
	5	10	15	20	25	30	35	40
	Dip	Dip.	Dip.	Dip.	Dip	Dip.	Dip.	Dip.
	M.	M.	M.	M.	M.	M.	M.	M.
¼	11	22	34	45	56	68	79	90
½	6	11	17	22	28	34	39	45
¾	4	8	12	15	19	23	27	30
1	4	6	9	12	15	17	20	23
1¼	3	5	7	9	12	14	16	19
1½	3	4	6	8	10	12	14	15
2	2	3	5	6	8	10	11	12
2½	2	3	5	6	7	8	9	10
3	2	3	4	5	6	7	8	8
3½	2	3	4	5	6	6	7	7
4	2	3	4	4	5	6	7	7
5	2	3	4	4	5	5	6	6
6	2	3	4	4	5	5	6	6

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Add aft. N. Sub. bef. N.	Sub. aft. N. Add bef. N.	H M 0. 20	H M 0. 40	H M 1. 0	H M 1. 20	H M 1. 40	H M 2. 0	H M 2. 20	H M 2. 40	Sub. aft. N Add bef. N.	Add aft. N. Sub. bef. N
Add in W. Sub. in E.	Sub. in W. Add in E.	5 Deg.	10 D	15 D	20 D	25 D	30 D	35 D	40 D	Sub. in W. Add in E.	Add in W. Sub. in E.
Days.	Days.	M S	M S	M S	M S	M S	M S	M S	M S	Days.	Days.
Decem. 21	Decem. 21	0. 0	0. 0	0. 0	0. 0	0. 0	0. 0	0. 0	0. 0	21 June.	21 June.
20	22	0. 0	0. 1	0. 1	0. 1	0. 2	0. 2	0. 2	0. 3	22	20
19	23	0. 0	0. 1	0. 2	0. 2	0. 3	0. 4	0. 5	0. 6	23	19
18	24	0. 1	0. 2	0. 3	0. 4	0. 6	0. 7	0. 8	0. 9	24	18
17	25	0. 1	0. 3	0. 4	0. 6	0. 7	0. 9	0. 11	0. 12	25	17
16	26	0. 2	0. 4	0. 5	0. 7	0. 9	0. 11	0. 13	0. 15	26	16
15	27	0. 2	0. 5	0. 6	0. 8	0. 11	0. 13	0. 15	0. 18	27	15
14	28	0. 3	0. 6	0. 7	0. 10	0. 12	0. 15	0. 18	0. 21	28	14
13	29	0. 3	0. 7	0. 9	0. 12	0. 15	0. 18	0. 21	0. 24	29	13
12	30	0. 3	0. 7	0. 10	0. 13	0. 17	0. 20	0. 23	0. 27	30 June.	12
11	Decem. 31	0. 4	0. 8	0. 11	0. 15	0. 19	0. 22	0. 26	0. 30	1 July.	11
10	January 1	0. 4	0. 8	0. 12	0. 16	0. 20	0. 24	0. 28	0. 32	2	10
9	2	0. 4	0. 8	0. 13	0. 17	0. 21	0. 26	0. 30	0. 35	3	9
8	3	0. 5	0. 9	0. 14	0. 19	0. 24	0. 29	0. 33	0. 38	4	8
7	4	0. 5	0. 10	0. 15	0. 21	0. 26	0. 31	0. 36	0. 41	5	7
6	5	0. 5	0. 11	0. 16	0. 22	0. 28	0. 33	0. 38	0. 44	6	6
5	6	0. 6	0. 12	0. 17	0. 24	0. 30	0. 35	0. 41	0. 47	7	5
4	7	0. 6	0. 12	0. 18	0. 25	0. 31	0. 37	0. 43	0. 49	8	4
3	8	0. 6	0. 13	0. 19	0. 26	0. 33	0. 39	0. 45	0. 52	9	3
2	9	0. 7	0. 14	0. 20	0. 27	0. 34	0. 41	0. 48	0. 55	10	2
Decem. 1	10	0. 7	0. 14	0. 21	0. 29	0. 36	0. 43	0. 50	0. 57	11	1 June.
Novem. 30	11	0. 7	0. 15	0. 22	0. 30	0. 37	0. 45	0. 52	1. 0	12	31 May.
29	12	0. 8	0. 16	0. 23	0. 31	0. 39	0. 47	0. 55	1. 3	13	30
28	13	0. 8	0. 16	0. 24	0. 33	0. 41	0. 49	0. 57	1. 6	14	29
27	14	0. 8	0. 17	0. 25	0. 34	0. 42	0. 51	0. 59	1. 8	15	28
26	15	0. 9	0. 18	0. 26	0. 35	0. 44	0. 53	1. 2	1. 11	16	27
25	16	0. 9	0. 18	0. 27	0. 37	0. 46	0. 55	1. 4	1. 13	17	26
24	17	0. 9	0. 19	0. 28	0. 38	0. 47	0. 57	1. 6	1. 16	18	25
23	18	0. 10	0. 20	0. 29	0. 39	0. 49	0. 58	1. 9	1. 19	19	24
22	19	0. 10	0. 20	0. 30	0. 40	0. 50	1. 0	1. 10	1. 20	20	23
21	20	0. 10	0. 21	0. 31	0. 41	0. 51	1. 2	1. 12	1. 22	21	22
20	21	0. 11	0. 22	0. 32	0. 43	0. 53	1. 4	1. 14	1. 25	22	21
19	22	0. 11	0. 22	0. 33	0. 44	0. 55	1. 6	1. 17	1. 28	23	20
18	23	0. 11	0. 23	0. 34	0. 45	0. 56	1. 7	1. 19	1. 30	24	19
17	24	0. 12	0. 23	0. 34	0. 46	0. 57	1. 9	1. 21	1. 32	25	18
16	25	0. 12	0. 24	0. 35	0. 47	0. 59	1. 11	1. 23	1. 35	26	17
15	26	0. 12	0. 24	0. 36	0. 48	1. 0	1. 12	1. 24	1. 36	27	16
14	27	0. 12	0. 25	0. 37	0. 49	1. 2	1. 14	1. 26	1. 39	28	15
13	28	0. 13	0. 26	0. 38	0. 51	1. 4	1. 16	1. 28	1. 41	29	14
11	January 30	0. 13	0. 26	0. 39	0. 53	1. 6	1. 19	1. 32	1. 45	31 July.	12
9	February 1	0. 13	0. 27	0. 41	0. 55	1. 9	1. 22	1. 36	1. 50	2 August.	10
7	3	0. 14	0. 28	0. 42	0. 57	1. 11	1. 25	1. 39	1. 53	4	8
5	5	0. 14	0. 29	0. 43	0. 58	1. 13	1. 27	1. 42	1. 56	6	6
3	7	0. 15	0. 30	0. 45	1. 0	1. 15	1. 30	1. 44	1. 59	8	4
Novem. 1	9	0. 15	0. 31	0. 46	1. 2	1. 17	1. 32	1. 47	2. 3	10	2 May.
October 30	11	0. 16	0. 32	0. 47	1. 3	1. 19	1. 35	1. 50	2. 6	12	30 April.
28	13	0. 16	0. 32	0. 48	1. 5	1. 21	1. 37	1. 53	2. 9	14	28
26	15	0. 16	0. 33	0. 49	1. 6	1. 22	1. 39	1. 56	2. 12	16	26
24	17	0. 17	0. 34	0. 50	1. 7	1. 24	1. 41	1. 58	2. 15	18	24
21	20	0. 17	0. 34	0. 52	1. 9	1. 27	1. 44	2. 1	2. 19	21	21
18	23	0. 17	0. 35	0. 53	1. 11	1. 29	1. 46	2. 4	2. 22	24	18
15	Feb. 26	0. 18	0. 36	0. 54	1. 13	1. 31	1. 49	2. 7	2. 25	27	15
12	March 1	0. 18	0. 37	0. 55	1. 14	1. 32	1. 51	2. 9	2. 28	30 August.	12
9	4	0. 19	0. 38	0. 56	1. 15	1. 34	1. 53	2. 12	2. 30	2 Septem.	9
6	7	0. 19	0. 38	0. 57	1. 16	1. 35	1. 54	2. 13	2. 32	5	6
October 3	10	0. 19	0. 38	0. 57	1. 17	1. 36	1. 55	2. 14	2. 34	8	3 April.
Septem. 30	13	0. 19	0. 39	0. 58	1. 17	1. 37	1. 56	2. 15	2. 35	11	31 March.
27	16	0. 19	0. 39	0. 58	1. 18	1. 38	1. 57	2. 16	2. 36	14	28
24	19	0. 20	0. 39	0. 58	1. 18	1. 38	1. 57	2. 16	2. 36	17	25
21	22	0. 20	0. 4	0. 59	1. 19	1. 39	1. 58	2. 17	2. 36	20	22

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Add in W. Sub. in E.	Sub. in W. Add in E.	45 D	50 D	55 D	60 D	65 D	70 D	75 D	Sub. in W. Add in E.	Add in W. Sub. in E.
Days.	Days.	M S	M S	M S	M S	M S	M S	M S	Days.	Days.
Decemb. 21	Decemb. 21	0. 0	0. 0	0. 0	0. 0	0. 0	0. 0	0. 0	21 June.	21 June.
20	22	0. 3	0. 3	0. 4	0. 4	0. 4	0. 5	0. 5	22	20
19	23	0. 6	0. 7	0. 8	0. 9	0. 9	0. 10	0. 11	23	19
18	24	0. 10	0. 11	0. 12	0. 13	0. 14	0. 15	0. 16	24	18
17	25	0. 13	0. 15	0. 16	0. 18	0. 19	0. 20	0. 22	25	17
16	26	0. 16	0. 18	0. 20	0. 22	0. 24	0. 26	0. 27	26	16
15	27	0. 20	0. 22	0. 24	0. 26	0. 29	0. 31	0. 33	27	15
14	28	0. 23	0. 25	0. 28	0. 31	0. 34	0. 36	0. 38	28	14
13	29	0. 26	0. 29	0. 32	0. 35	0. 38	0. 41	0. 44	29	13
12	30	0. 30	0. 33	0. 36	0. 40	0. 43	0. 46	0. 50	30 June.	12
11	Decemb. 31	0. 33	0. 37	0. 40	0. 44	0. 48	0. 51	0. 55	1 July.	11
10	January 1	0. 36	0. 40	0. 44	0. 48	0. 53	0. 57	1. 1	2	10
9	2	0. 39	0. 44	0. 48	0. 53	0. 57	1. 2	1. 6	3	9
8	3	0. 43	0. 48	0. 53	0. 57	1. 2	1. 7	1. 11	4	8
7	4	0. 46	0. 51	0. 56	1. 1	1. 7	1. 12	1. 17	5	7
6	5	0. 49	0. 55	1. 0	1. 6	1. 11	1. 17	1. 22	6	6
5	6	0. 52	0. 58	1. 4	1. 10	1. 16	1. 22	1. 27	7	5
4	7	0. 55	1. 1	1. 7	1. 14	1. 20	1. 26	1. 32	8	4
3	8	0. 58	1. 5	1. 11	1. 18	1. 24	1. 31	1. 37	9	3
2	9	1. 1	1. 8	1. 15	1. 22	1. 29	1. 36	1. 43	10	2
Decemb. 1	10	1. 4	1. 12	1. 19	1. 26	1. 33	1. 41	1. 48	11	1 June.
Novemb. 30	11	1. 7	1. 15	1. 23	1. 30	1. 37	1. 45	1. 52	12	31 May.
29	12	1. 10	1. 18	1. 26	1. 34	1. 42	1. 50	1. 57	13	30
28	13	1. 13	1. 22	1. 30	1. 38	1. 46	1. 54	2. 2	14	29
27	14	1. 16	1. 25	1. 34	1. 42	1. 50	1. 58	2. 7	15	28
26	15	1. 19	1. 28	1. 37	1. 46	1. 55	2. 3	2. 12	16	27
25	16	1. 22	1. 31	1. 40	1. 49	1. 59	2. 8	2. 17	17	26
24	17	1. 25	1. 35	1. 44	1. 53	2. 3	2. 12	2. 21	18	25
23	18	1. 28	1. 38	1. 47	1. 57	2. 7	2. 16	2. 26	19	24
22	19	1. 30	1. 41	1. 51	2. 1	2. 11	2. 21	2. 31	20	23
21	20	1. 33	1. 44	1. 54	2. 4	2. 15	2. 25	2. 35	21	22
20	21	1. 36	1. 47	1. 57	2. 8	2. 19	2. 29	2. 40	22	21
19	22	1. 39	1. 50	2. 0	2. 11	2. 22	2. 33	2. 44	23	20
18	23	1. 41	1. 53	2. 4	2. 15	2. 26	2. 37	2. 48	24	19
17	24	1. 43	1. 55	2. 7	2. 18	2. 30	2. 41	2. 52	25	18
16	25	1. 46	1. 58	2. 10	2. 21	2. 33	2. 45	2. 56	26	17
15	26	1. 48	2. 1	2. 13	2. 25	2. 37	2. 49	3. 1	27	16
14	27	1. 51	2. 4	2. 16	2. 28	2. 40	2. 52	3. 5	28	15
13	28	1. 54	2. 7	2. 19	2. 31	2. 44	2. 56	3. 9	29	14
11	January 30	1. 58	2. 11	2. 24	2. 37	2. 51	3. 4	3. 17	31 July.	12
9	February 1	2. 3	2. 17	2. 30	2. 43	2. 57	3. 11	3. 24	2 August.	10
7	3	2. 7	2. 21	2. 35	2. 49	3. 3	3. 17	3. 32	4	8
5	5	2. 11	2. 25	2. 40	2. 54	3. 9	3. 23	3. 38	6	6
3	7	2. 14	2. 29	2. 44	2. 59	3. 14	3. 29	3. 44	8	4
Novemb. 1	9	2. 18	2. 33	2. 49	3. 4	3. 19	3. 35	3. 50	10	2 May.
October 30	11	2. 22	2. 38	2. 53	3. 9	3. 25	3. 41	3. 56	12	30 April.
28	13	2. 25	2. 41	2. 58	3. 14	3. 30	3. 46	4. 3	14	28
26	15	2. 29	2. 45	3. 2	3. 18	3. 35	3. 51	4. 8	16	26
24	17	2. 32	2. 49	3. 5	3. 22	3. 39	3. 56	4. 13	18	24
21	20	2. 36	2. 53	3. 11	3. 28	3. 45	4. 2	4. 20	21	21
18	23	2. 40	2. 58	3. 15	3. 33	3. 51	4. 8	4. 26	24	18
15	February 26	2. 43	3. 1	3. 20	3. 38	3. 56	4. 14	4. 32	27	15
12	March 1	2. 46	3. 5	3. 23	3. 42	4. 1	4. 19	4. 38	30 August.	12
9	4	2. 49	3. 8	3. 26	3. 45	4. 4	4. 23	4. 41	2 Septemb.	9
6	7	2. 51	3. 10	3. 29	3. 48	4. 7	4. 26	4. 45	5	6
October 3	10	2. 53	3. 13	3. 32	3. 51	4. 10	4. 29	4. 49	8	3 April.
Septemb. 30	13	2. 55	3. 14	3. 33	3. 53	4. 13	4. 32	4. 51	11	31 March.
27	16	2. 56	3. 15	3. 34	3. 54	4. 14	4. 33	4. 52	14	28
24	19	2. 56	3. 15	3. 35	3. 55	4. 15	4. 33	4. 52	17	25
21	22	2. 56	3. 15	3. 35	3. 55	4. 15	4. 34	4. 53	20	22

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Add aft. N. Sub. bef. N.	Sub. aft. N. Add bef. N.	H M 5. 20	H M 5. 40	H M 6. 0	H M 6. 20	H M 6. 40	H M 7. 0	H M 7. 20	Sub. aft. N. Add bef. N.	Add aft. N. Sub. bef. N.
Add in W. Sub. in E.	Sub. in W. Add in E.	D 80	D 85	D 90	D 95	D 100	D 105	D 110	Sub. in W. Add in E.	Add in W. Sub. in E.
Days.	Days.	M S	M S	M S	M S	M S	M S	M S	Days.	Days.
Decemb. 21	Decemb. 21	0. 0	0. 0	0. 0	0. 0	0. 0	0. 0	0. 0	21 June.	21 June.
20	22	0. 5	0. 6	0. 6	0. 7	0. 8	0. 8	0. 8	22	20
19	23	0. 11	0. 12	0. 13	0. 14	0. 15	0. 15	0. 16	23	19
18	24	0. 17	0. 19	0. 20	0. 21	0. 22	0. 23	0. 24	24	18
17	25	0. 23	0. 25	0. 26	0. 28	0. 29	0. 31	0. 32	25	17
16	26	0. 29	0. 31	0. 33	0. 35	0. 37	0. 38	0. 40	26	16
15	27	0. 35	0. 38	0. 40	0. 42	0. 44	0. 46	0. 49	27	15
14	28	0. 41	0. 43	0. 46	0. 49	0. 51	0. 54	0. 57	28	14
13	29	0. 47	0. 50	0. 53	0. 56	0. 59	1. 2	1. 5	29	13
12	30	0. 53	0. 56	0. 59	1. 3	1. 6	1. 9	1. 12	30 June.	12
11	Decemb. 31	0. 59	1. 2	1. 6	1. 10	1. 13	1. 17	1. 21	1 July.	11
10	January 1	1. 5	1. 9	1. 13	1. 17	1. 21	1. 25	1. 29	2	10
9	2	1. 11	1. 15	1. 19	1. 24	1. 28	1. 32	1. 37	3	9
8	3	1. 16	1. 21	1. 26	1. 31	1. 35	1. 40	1. 45	4	8
7	4	1. 22	1. 27	1. 32	1. 37	1. 42	1. 47	1. 53	5	7
6	5	1. 27	1. 33	1. 38	1. 44	1. 49	1. 54	2. 0	6	6
5	6	1. 33	1. 39	1. 45	1. 51	1. 57	2. 2	2. 8	7	5
4	7	1. 39	1. 45	1. 51	1. 57	2. 3	2. 9	2. 16	8	4
3	8	1. 44	1. 50	1. 57	2. 4	2. 10	2. 16	2. 23	9	3
2	9	1. 50	1. 56	2. 3	2. 10	2. 17	2. 23	2. 30	10	2
Decemb. 1	10	1. 55	2. 2	2. 9	2. 16	2. 23	2. 30	2. 38	11	1 June.
Novemb. 30	11	2. 0	2. 7	2. 15	2. 22	2. 30	2. 37	2. 45	12	31 May.
29	12	2. 5	2. 13	2. 21	2. 29	2. 37	2. 44	2. 52	13	30
28	13	2. 10	2. 19	2. 27	2. 35	2. 43	2. 51	3. 0	14	29
27	14	2. 16	2. 25	2. 33	2. 42	2. 50	2. 58	3. 7	15	28
26	15	2. 21	2. 30	2. 38	2. 47	2. 56	3. 5	3. 13	16	27
25	16	2. 26	2. 35	2. 44	2. 53	3. 2	3. 11	3. 21	17	26
24	17	2. 31	2. 40	2. 50	2. 59	3. 9	3. 18	3. 28	18	25
23	18	2. 36	2. 46	2. 55	3. 5	3. 15	3. 24	3. 34	19	24
22	19	2. 41	2. 51	3. 1	3. 11	3. 21	3. 31	3. 41	20	23
21	20	2. 46	2. 56	3. 6	3. 17	3. 27	3. 37	3. 48	21	22
20	21	2. 50	3. 2	3. 12	3. 23	3. 33	3. 44	3. 55	22	21
19	22	2. 55	3. 6	3. 17	3. 28	3. 39	3. 50	4. 1	23	20
18	23	3. 0	3. 11	3. 22	3. 33	3. 45	3. 56	4. 7	24	19
17	24	3. 4	3. 16	3. 27	3. 39	3. 50	4. 1	4. 13	25	18
16	25	3. 8	3. 20	3. 32	3. 44	3. 56	4. 7	4. 19	26	17
15	26	3. 13	3. 25	3. 37	3. 49	4. 1	4. 13	4. 26	27	16
14	27	3. 17	3. 29	3. 42	3. 54	4. 6	4. 19	4. 31	28	15
13	28	3. 22	3. 34	3. 47	4. 0	4. 12	4. 25	4. 38	29	14
11	January 30	3. 30	3. 43	3. 56	4. 9	4. 22	4. 36	4. 49	31 July.	12
9	February 1	3. 38	3. 51	4. 5	4. 18	4. 32	4. 46	4. 59	2 August.	10
7	3	3. 46	4. 0	4. 14	4. 28	4. 42	4. 56	5. 10	4	8
5	5	3. 52	4. 6	4. 21	4. 36	4. 50	5. 5	5. 19	6	6
3	7	3. 59	4. 14	4. 29	4. 44	4. 59	5. 14	5. 29	8	4
Novemb. 1	9	4. 5	4. 21	4. 36	4. 52	5. 7	5. 23	5. 38	10	2 May.
October 30	11	4. 12	4. 28	4. 44	5. 0	5. 16	5. 31	5. 47	12	30 April.
28	13	4. 19	4. 35	4. 51	5. 7	5. 23	5. 40	5. 56	14	28
26	15	4. 24	4. 41	4. 57	5. 14	5. 30	5. 47	6. 3	16	26
24	17	4. 30	4. 47	5. 3	5. 21	5. 38	5. 55	6. 12	18	24
21	20	4. 37	4. 55	5. 12	5. 29	5. 47	6. 4	6. 21	21	21
18	23	4. 44	5. 2	5. 19	5. 37	5. 55	6. 13	6. 31	24	18
15	February 26	4. 50	5. 8	5. 26	5. 44	6. 2	6. 20	6. 38	27	15
12	March 1	4. 56	5. 15	5. 33	5. 52	6. 10	6. 29	6. 47	30 August.	12
9	4	5. 0	5. 19	5. 38	5. 57	6. 16	6. 34	6. 53	2 Septemb.	9
6	7	5. 4	5. 20	5. 42	6. 1	6. 20	6. 39	6. 58	5	6
October 3	10	5. 8	5. 27	5. 46	6. 5	6. 25	6. 44	7. 3	8	3 April.
Septemb. 30	13	5. 11	5. 30	5. 49	6. 8	6. 28	6. 47	7. 6	11	31 March.
27	16	5. 12	5. 31	5. 51	6. 11	6. 31	6. 50	7. 9	14	28
24	19	5. 12	5. 32	5. 52	6. 12	6. 32	6. 51	7. 11	17	25
21	22	5. 13	5. 33	5. 53	6. 13	6. 33	6. 52	7. 11	20	22

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TABLE VI. For reducing the SUN'S DECLINATION, as given in the Nautical Almanac for Noon at GREENWICH, to any other Time under that Meridian; or to Noon under any other Meridian.

Add aft. N. Sub. bef. N.	Sub. aft. N. Add bef. N.	H M 7.40	H M 8. 0	H M 8.20	H M 8.40	H M 9. 0	H M 9.20	H M 9.40	Sub. aft. N. Add bef. N.	Add aft. N. Sub. bef. N.
Add in W. Sub. in E.	Sub. in W. Add in E.	D 115	D 120	D 125	D 130	D 135	D 140	D 145	Sub. in W. Add in E.	Add in W. Sub. in E.
Days.	Days.	M S	M S	M S	M S	M S	M S	M S	Days.	Days.
Decem. 21	Decem. 21	0. 0	0. 0	0. 0	0. 0	0. 0	0. 0	0. 0	21 June.	21 June.
20	22	0. 9	0. 9	0. 9	0. 10	0. 10	0. 10	0. 10	22	20
19	23	0. 17	0. 18	0. 18	0. 19	0. 19	0. 20	0. 21	23	19
18	24	0. 25	0. 26	0. 27	0. 28	0. 29	0. 30	0. 31	24	18
17	25	0. 34	0. 35	0. 36	0. 38	0. 39	0. 41	0. 43	25	17
16	26	0. 42	0. 44	0. 46	0. 48	0. 49	0. 51	0. 53	26	16
15	27	0. 51	0. 53	0. 55	0. 57	0. 59	1. 1	1. 3	27	15
14	28	0. 59	1. 2	1. 5	1. 7	1. 9	1. 12	1. 14	28	14
13	29	1. 8	1. 11	1. 14	1. 17	1. 19	1. 22	1. 25	29	13
12	30	1. 16	1. 19	1. 23	1. 26	1. 29	1. 32	1. 35	30 June.	12
11	Decem. 31	1. 24	1. 28	1. 32	1. 35	1. 39	1. 43	1. 46	1 July.	11
10	January 1	1. 33	1. 37	1. 41	1. 45	1. 49	1. 53	1. 57	2	10
9	2	1. 42	1. 46	1. 51	1. 55	1. 59	2. 3	2. 7	3	9
8	3	1. 49	1. 54	1. 59	2. 4	2. 9	2. 13	2. 18	4	8
7	4	1. 58	2. 3	2. 8	2. 13	2. 19	2. 23	2. 28	5	7
6	5	2. 5	2. 11	2. 16	2. 22	2. 28	2. 33	2. 39	6	6
5	6	2. 14	2. 20	2. 26	2. 32	2. 38	2. 43	2. 49	7	5
4	7	2. 22	2. 28	2. 34	2. 41	2. 47	2. 53	2. 59	8	4
3	8	2. 29	2. 36	2. 43	2. 49	2. 56	3. 3	3. 9	9	3
2	9	2. 37	2. 44	2. 51	2. 58	3. 5	3. 12	3. 19	10	2
Decem. 1	10	2. 45	2. 52	2. 59	3. 6	3. 14	3. 21	3. 28	11	1 June.
Novem. 30	11	2. 52	3. 0	3. 7	3. 15	3. 23	3. 30	3. 38	12	31 May.
29	12	3. 0	3. 8	3. 16	3. 24	3. 32	3. 39	3. 47	13	30
28	13	3. 8	3. 16	3. 24	3. 32	3. 40	3. 49	3. 57	14	29
27	14	3. 15	3. 24	3. 32	3. 41	3. 49	3. 58	4. 6	15	28
26	15	3. 22	3. 31	3. 40	3. 49	3. 58	4. 7	4. 16	16	27
25	16	3. 30	3. 39	3. 48	3. 57	4. 7	4. 16	4. 25	17	26
24	17	3. 37	3. 46	3. 56	4. 6	4. 16	4. 24	4. 34	18	25
23	18	3. 44	3. 54	4. 4	4. 14	4. 24	4. 33	4. 43	19	24
22	19	3. 51	4. 1	4. 11	4. 21	4. 31	4. 41	4. 51	20	23
21	20	3. 58	4. 8	4. 19	4. 29	4. 39	4. 50	5. 0	21	22
20	21	4. 5	4. 16	4. 27	4. 37	4. 48	4. 59	5. 9	22	21
19	22	4. 12	4. 23	4. 34	4. 45	4. 56	5. 7	5. 18	23	20
18	23	4. 19	4. 30	4. 41	4. 53	5. 4	5. 15	5. 26	24	19
17	24	4. 25	4. 36	4. 48	5. 0	5. 12	5. 23	5. 34	25	18
16	25	4. 31	4. 43	4. 55	5. 7	5. 19	5. 30	5. 42	26	17
15	26	4. 38	4. 50	5. 2	5. 14	5. 26	5. 38	5. 50	27	16
14	27	4. 43	4. 56	5. 8	5. 21	5. 33	5. 46	5. 58	28	15
13	28	4. 50	5. 3	5. 16	5. 28	5. 40	5. 54	6. 6	29	14
11	January 30	5. 2	5. 15	5. 28	5. 41	5. 54	6. 8	6. 21	31 July.	12
9	February 1	5. 13	5. 27	5. 40	5. 54	6. 8	6. 22	6. 35	2 August.	10
7	3	5. 24	5. 38	5. 52	6. 6	6. 20	6. 35	6. 49	4	8
5	5	5. 34	5. 49	6. 4	6. 18	6. 33	6. 47	7. 2	6	6
3	7	5. 44	5. 59	6. 14	6. 29	6. 44	6. 59	7. 14	8	4
Novem. 1	9	5. 53	6. 9	6. 24	6. 40	6. 55	7. 11	7. 26	10	2 May.
October 30	11	6. 3	6. 18	6. 34	6. 50	7. 6	7. 21	7. 37	12	30 April.
28	13	6. 12	6. 28	6. 44	7. 0	7. 16	7. 32	7. 48	14	28
26	15	6. 20	6. 36	6. 53	7. 10	7. 26	7. 42	7. 58	16	26
24	17	6. 29	6. 45	7. 2	7. 19	7. 36	7. 52	8. 9	18	24
21	20	6. 39	6. 56	7. 13	7. 31	7. 48	8. 5	8. 22	21	21
18	23	6. 48	7. 6	7. 24	7. 42	8. 0	8. 17	8. 34	24	18
15	Feb. 26	6. 57	7. 15	7. 34	7. 52	8. 10	8. 28	8. 46	27	15
12	March 1	7. 6	7. 24	7. 42	8. 1	8. 20	8. 38	8. 57	30 August.	12
9	4	7. 12	7. 31	7. 50	8. 9	8. 28	8. 46	9. 6	2 Septem.	9
6	7	7. 17	7. 36	7. 55	8. 14	8. 33	8. 53	9. 12	5	6
October 3	10	7. 23	7. 42	8. 1	8. 20	8. 39	8. 59	9. 18	8	3 April.
Septem. 30	13	7. 26	7. 45	8. 4	8. 24	8. 43	9. 3	9. 22	11	31 March.
27	16	7. 29	7. 48	8. 7	8. 27	8. 47	9. 6	9. 25	14	28
24	19	7. 30	7. 50	8. 10	8. 29	8. 49	9. 8	9. 27	17	25
21	22	7. 31	7. 50	8. 10	8. 30	8. 50	9. 9	9. 28	20	22

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Add aft. N. Sub. bef. N.	Sub. aft. N. Add bef. N.	H M 10. 0	H M 10. 20	H M 10. 40	H M 11. 0	H M 11. 20	H M 11. 40	H M 12. 0	Sub. aft. N. Add bef. N.	Add aft. N. Sub. bef. N.
Add in W. Sub. in E.	Sub. in W. Add in E.	D 150	D 155	D 160	D 165	D 170	D 175	D 180	Sub. in W. Add in E.	Add in W. Sub. in E.
Days.	Days.	M S	M S	M S	M S	M S	M S	M S	Days.	Days.
Decem. 21	Decem. 21	0. 0	0. 0	0. 0	0. 0	0. 0	0. 0	0. 0	21 June.	21 June.
20	22	0. 11	0. 11	0. 12	0. 12	0. 12	0. 13	0. 13	22	20
19	23	0. 22	0. 23	0. 24	0. 24	0. 25	0. 26	0. 26	23	19
18	24	0. 33	0. 34	0. 35	0. 36	0. 37	0. 38	0. 39	24	18
17	25	0. 44	0. 46	0. 47	0. 48	0. 50	0. 51	0. 53	25	17
16	26	0. 55	0. 57	0. 58	1. 0	1. 2	1. 4	1. 6	26	16
15	27	1. 6	1. 8	1. 11	1. 13	1. 15	1. 17	1. 19	27	15
14	28	1. 17	1. 20	1. 23	1. 25	1. 27	1. 30	1. 32	28	14
13	29	1. 28	1. 31	1. 34	1. 37	1. 40	1. 43	1. 46	29	13
12	30	1. 39	1. 42	1. 45	1. 49	1. 52	1. 55	1. 59	30	12
11	Decem. 31	1. 50	1. 54	1. 57	2. 1	2. 5	2. 8	2. 12	1 July.	11
10	January 1	2. 1	2. 5	2. 9	2. 13	2. 17	2. 21	2. 25	2	10
9	2	2. 12	2. 16	2. 20	2. 25	2. 30	2. 34	2. 38	3	9
8	3	2. 23	2. 27	2. 32	2. 37	2. 42	2. 47	2. 51	4	8
7	4	2. 34	2. 39	2. 44	2. 49	2. 54	2. 59	3. 4	5	7
6	5	2. 44	2. 50	2. 55	3. 0	3. 6	3. 12	3. 17	6	6
5	6	2. 55	3. 1	3. 6	3. 12	3. 18	3. 24	3. 30	7	5
4	7	3. 5	3. 11	3. 17	3. 23	3. 29	3. 36	3. 42	8	4
3	8	3. 15	3. 21	3. 28	3. 34	3. 41	3. 48	3. 54	9	3
2	9	3. 25	3. 32	3. 38	3. 45	3. 52	3. 59	4. 6	10	2
Decem. 1	10	3. 35	3. 42	3. 49	3. 56	4. 4	4. 11	4. 18	11	1 June.
Novem. 30	11	3. 45	3. 52	3. 59	4. 7	4. 15	4. 22	4. 30	12	31 May.
29	12	3. 55	4. 3	4. 10	4. 18	4. 26	4. 34	4. 42	13	30
28	13	4. 5	4. 13	4. 21	4. 29	4. 38	4. 46	4. 54	14	29
27	14	4. 15	4. 23	4. 31	4. 40	4. 49	4. 57	5. 5	15	28
26	15	4. 24	4. 33	4. 41	4. 50	4. 59	5. 8	5. 17	16	27
25	16	4. 34	4. 43	4. 52	5. 1	5. 10	5. 19	5. 28	17	26
24	17	4. 43	4. 53	5. 2	5. 11	5. 21	5. 30	5. 40	18	25
23	18	4. 52	5. 2	5. 12	5. 22	5. 32	5. 41	5. 51	19	24
22	19	5. 1	5. 12	5. 22	5. 32	5. 42	5. 52	6. 2	20	23
21	20	5. 10	5. 21	5. 31	5. 42	5. 53	6. 3	6. 13	21	22
20	21	5. 20	5. 31	5. 42	5. 52	6. 3	6. 14	6. 24	22	22
19	22	5. 29	5. 40	5. 51	6. 2	6. 13	6. 24	6. 34	23	20
18	23	5. 37	5. 49	6. 0	6. 11	6. 23	6. 34	6. 44	24	19
17	24	5. 45	5. 57	6. 9	6. 20	6. 32	6. 43	6. 54	25	18
16	25	5. 54	6. 6	6. 17	6. 29	6. 41	6. 53	7. 4	26	17
15	26	6. 2	6. 14	6. 26	6. 38	6. 51	7. 3	7. 14	27	16
14	27	6. 10	6. 22	6. 34	6. 47	7. 0	7. 12	7. 24	28	15
13	28	6. 19	6. 31	6. 43	6. 56	7. 9	7. 22	7. 34	29	14
12	January 30	6. 34	6. 47	7. 0	7. 13	7. 26	7. 40	7. 53	31 July.	12
9	February 1	6. 49	7. 3	7. 16	7. 30	7. 43	7. 57	8. 11	2 August.	10
7	3	7. 3	7. 17	7. 31	7. 45	7. 59	8. 13	8. 28	4	8
5	5	7. 16	7. 31	7. 45	8. 0	8. 14	8. 28	8. 43	6	6
3	7	7. 29	7. 44	7. 59	8. 14	8. 28	8. 43	8. 58	8	4
Novem. 1	9	7. 41	7. 56	8. 12	8. 27	8. 42	8. 58	9. 13	10	2 May.
October 30	11	7. 53	8. 8	8. 24	8. 40	8. 56	9. 12	9. 28	12	30 April.
28	13	8. 4	8. 20	8. 36	8. 53	9. 9	9. 25	9. 42	14	28
26	15	8. 15	8. 32	8. 48	9. 5	9. 21	9. 38	9. 54	16	26
24	17	8. 26	8. 43	9. 0	9. 17	9. 34	9. 50	10. 7	18	24
21	20	8. 40	8. 57	9. 14	9. 32	9. 49	10. 6	10. 24	21	21
18	23	8. 52	9. 10	9. 28	9. 46	10. 3	10. 21	10. 39	24	18
15	Feb. 26	9. 4	9. 22	9. 40	9. 58	10. 16	10. 34	10. 53	27	15
12	March 1	9. 15	9. 33	9. 51	10. 10	10. 29	10. 47	11. 6	30 August.	12
9	4	9. 24	9. 43	10. 1	10. 20	10. 39	10. 58	11. 16	2 Septem.	9
6	7	9. 30	9. 50	10. 9	10. 28	10. 47	11. 6	11. 24	5	6
October 3	10	9. 37	9. 56	10. 16	10. 35	10. 54	11. 13	11. 32	8	3 April.
Septem. 30	13	9. 41	10. 0	10. 21	10. 40	10. 59	11. 18	11. 38	11	31 March.
27	16	9. 45	10. 4	10. 24	10. 44	11. 3	11. 22	11. 42	14	28
24	19	9. 47	10. 6	10. 26	10. 46	11. 5	11. 24	11. 44	17	25
21	22	9. 48	10. 7	10. 27	10. 47	11. 6	11. 25	11. 45	20	22

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TABLE VII. The Right Ascensions and Declinations of the principal FIXED STARS of the First and Second Magnitudes, adapted to the Beginning of the Year 1780, with their annual Variations.

Names and Situations of the Stars.	Character.	Magnitude.	Right Ascension in Time.	An. var. in Right Ascens.	Declination.	An. var. in Declination.
			H M S	S +	° M S	S
Extremity of the wing of Pegasus, *Algenib*	γ	2	0. 1. 56	3,07	13. 57. 35 N	+20,05
In the head of the Phœnix - - -	α	2	0. 15. 22	3,00	43. 29. 48 S	—20,00
Bright star in the tail of the Whale - -	β	2	0. 32. 32	3,01	19. 11. 50 S	—19,86
In the girdle of Andromeda - - - -	β	2	0. 57. 29	3,30	34. 26. 56 N	+19,45
The spring of the river Erida. *Achernar*	α	1	1. 29. 31	2,25	58. 21. 35 S	—18,55
In the preceding horn of the Ram - -	α	2	1. 54. 49	3,33	22. 24. 47 N	+17,60
In the neck of the Whale - - -		2	2. 8. 54	3,03	3. 59. 06 S	—17,04
In the jaw of the Whale - - -	α	2	2. 50. 48	3,12	3. 13. 6 N	+14,76
In the head of Medusa, *Algol* - -	β	2	2. 53. 56	3,85	40. 5. 37 N	+14,63
The bright star in Perseus - - -	α	2	3. 8. 43	4,20	49. 3. 43 N	+13,72
The southern eye of the Bull, *Aldebaran*	α	1	4. 23. 19	3,42	16. 3. 2 N	+ 8,26
In the left shoulder of Auriga, *Capella* -	α	1	5. 0. 27	4,37	45. 45. 8 N	+ 5,21
The bright foot of Orion, *Rigel* - -	β	1	5. 3. 58	2,87	8. 28. 11 S	— 4,88
Northern horn of the Bull - - -	β	2	5. 12. 24	3,77	28. 24. 8 N	+ 4,19
The western shoulder of Orion - - -	γ	2	5. 13. 21	3,22	6. 8. 2 N	+ 4,15
Preceding star in the belt of Orion - -	δ	2	5. 20. 47	3,07	0. 28. 40 S	— 2,50
Bright star in the Dove - - - - -	α	2	5. 31. 43	2,18	34. 12. 07 S	— 2,48
The eastern shoulder of Orion - - -	α	1	5. 43. 16	3,24	7. 20. 59 N	+ 1,51
In the poop of the Ship Argo, *Canopus* -	α	1	6. 19. 5	1,34	52. 34. 58 S	+ 1,67
In the mouth of the greater Dog, *Sirius*	α	1	6. 35. 27	2,64	16. 25. 39 S	+ 4,25
In the back of the greater Dog - - -	δ	2	6. 59. 28	2,45	26. 3. 28 S	+ 5,14
In the tail of the greater Dog - - -	η	2	7. 15. 24	2,38	28. 53. 5 S	+ 6,42
In the head of the northern Twin, *Castor*	α	1	7. 20. 32	3,85	32. 21. 0 N	— 5,85
The lesser Dog, *Procyon* - - - - -	α	1	7. 27. 46	3,14	5. 46. 41 N	— 7,45
In the head of the southern Twin, *Pollux*	β	1	7. 31. 49	3,68	28. 32. 24 N	— 7,77
In the row-lock of the Ship Argo - -	ζ	2	7. 55. 52	2,12	39. 23. 29 S	+ 9,70
In the poop of the Ship Argo - -	γ	2	8. 2. 47	1,86	46. 41. 41 S	+10,23
In the middle of the Ship Argo - -	δ	2	8. 38. 37	1,66	53. 54. 25 S	+12,79
In the oars of the Ship Argo - - -	β	1	9. 10. 44	0,75	68. 48. 50 S	+14,83
The heart of the female Hydra - - -	α	2	9. 16. 47	2,98	7. 42. 49 S	+15,14
The Lion's heart, *Regulus* - - -	α	1	9. 56. 38	3,20	13. 2. 5 N	—17,19
Southerm. star in the squ. of the great Bear	β	2	10. 48. 27	3,74	57. 33. 25 N	—19,05
Northerm. star in the squ. of the great Bear	α	1	10. 50. 0	3,88	62. 56. 5 N	—19,09
The Lion's tail - - - -	β	2	11. 37. 50	3,11	15. 48. 6 N	—19,95
In the foot of the Cross - - -	α	1	12. 14. 33	3,24	61. 52. 47 S	+20,00
In the top of the Cross. - - -	γ	2	12. 19. 4	3,24	55. 52. 42 S	+19,98
In the following arm of the Cross - -	β	2	12. 35. 1	3,41	58. 29. 2 S	+19,81
The Virgin's Spike - - -	α	1	13. 13. 37	3,14	10. 0. 24 S	+19,04
Last star in the tail of the great Bear - -	η	2	13. 38. 52	2,41	50. 25. 3 N	—18,24
The western foot of the Centaur - -	β	2	13. 48. 30	4,10	59. 17. 58 S	+17,86
In the tail of the Dragon - - -	α	2	13. 58. 27	1,63	65. 25. 54 N	—17,46
The bright star in Bootes, *Arcturus* - -	α	1	14. 5. 38	2,72	20. 20. 7 N	—17,15
Eastern foot of the Centaur - -	α	1	14. 25. 3	4,44	55. 59. 15 S	+16,16
The southern scale of Libra - -	α	2	14. 38. 44	3,30	15. 6. 52 S.	+15,46
The northern scale of Libra - - -	β	2	15. 5. 12	3,22	8. 33. 31 S.	+13,93
Bright star in the Crown - - -	α	2	15. 25. 22	2,53	27. 27. 59 N	—12,56
In the neck of the Serpent - - -	α	2	15. 33. 26	2,93	7. 7. 49 N	—12,00
The Scorpion's heart, *Antares* - -	α	1	16. 15. 57	3,65	25. 55. 28 S	+ 8,84
In the head of Hercules - - -	α	2	17. 4. 38	2,74	14. 39. 18 N	— 4,87
In the head of Ophiuchus - - -	α	2	17. 24. 44	2,77	12. 44. 8 N	— 3,12
In the head of the Dragon - -	γ	2	17. 51. 31	1,37	51. 31. 21 N	— 0,78
The bright star in the Harp, *Lyra* - -	α	1	18. 29. 29	2,01	38. 35. 18 N	+ 2,54
Bright star in the Eagle, *Atair* - -	α	1	19. 40. 3.	2,93	8. 17. 57 N	+ 8,44
The eye of the Peacock - - -	α	2	20. 8. 7.	4,85	57. 25. 11 S	—10,63
The tail of the Swan - - -	α	2	20. 33. 56.	2,04	44. 30. 8 N	+12,46
The western wing of the Crane - -	α	2	21. 54. 17.	3,85	48. 0. 50 S	—17,11
In the mouth of the south. Fish, *Fomalhaut*	α	1	22. 46. 27	3,32	30. 46. 58 S	—18,98
In the shoulder of Pegasus - - -	β	2	22. 53. 8	2,88	26. 53. 32 N	+19,18
In the wing of Pegasus, *Markab* - -	α	2	22. 53. 49	2,97	14. 1. 32 N	+19,20
The head of Andromeda - - -	α	2	23. 57. 3	3,06	27. 52. 30 N	+20,04

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TABLE VIII. For reducing the apparent Altitude of the MOON to the true.

Moon's horizontal Parallax.		Apparent Altitude of Moon's Center.								
		3°	4°	5°	6°	7°	8°	9°	10°	11°
		Corr.	Corr.	Corr.	Corr.	Corr.	Corr.	Corr.	Corr.	Corr.
M	S	M S	M S	M S	M S	M S	M S	M S	M S	M S
53	0	38.20	41. 1	42.54	44.15	45.16	46. 0	46.32	46.57	47.15
	10	38.30	41.11	43. 4	44.25	45.26	46.10	46.42	47. 7	47.25
	20	38.40	41.21	43.14	44.35	45.36	46.20	46.52	47.17	47.35
	30	38.50	41.31	43.24	44.45	45.46	46.30	47. 2	47.26	47.45
	40	39. 0	41.41	43.34	44.54	45.55	46.39	47.12	47.36	47.54
	50	39.10	41.51	43.43	45. 4	46. 5	46.49	47.22	47.46	48. 4
54	0	39.20	42. 1	43.53	45.14	46.15	46.59	47.32	47.56	48.14
	10	39.30	42.11	44. 3	45.24	46.25	47. 9	47.42	48. 6	48.24
	20	39.40	42.21	44.13	45.34	46.35	47.19	47.51	48.16	48.34
	30	39.50	42.31	44.23	45.44	46.45	47.29	48. 1	48.26	48.43
	40	40. 0	42.41	44.33	45.54	46.55	47.38	48.11	48.35	48.53
	50	40.10	42.51	44.43	46. 4	47. 5	47.48	48.21	48.45	49. 3
55	0	40.20	43. 1	44.53	46.14	47.15	47.58	48.31	48.55	49.13
	10	40.30	43.11	45. 3	46.24	47.25	48. 8	48.41	49. 5	49.23
	20	40.40	43.21	45.13	46.34	47.35	48.18	48.50	49.15	49.32
	30	40.50	43.31	45.23	46.44	47.45	48.28	49. 0	49.25	49.42
	40	41. 0	43.41	45.33	46.54	47.54	48.38	49.10	49.34	49.52
	50	41.10	43.51	45.43	47. 4	48. 4	48.48	49.20	49.44	50. 2
56	0	41.20	44. 1	45.53	47.14	48.14	48.58	49.30	49.54	50.12
	10	41.30	44.11	46. 3	47.24	48.24	49. 7	49.40	50. 4	50.21
	20	41.40	44.21	46.13	47.34	48.34	49.17	49.50	50.14	50.31
	30	41.50	44.31	46.23	47.44	48.44	49.27	49.59	50.24	50.41
	40	42. 0	44.41	46.33	47.54	48.54	49.37	50. 9	50.34	50.51
	50	42.10	44.51	46.43	48. 3	49. 4	49.47	50.19	50.43	51. 1
57	0	42.20	45. 1	46.53	48.13	49.14	49.57	50.29	50.53	51.11
	10	42.30	45.11	47. 3	48.23	49.24	50. 7	50.39	51. 3	51.20
	20	42.40	45.21	47.13	48.33	49.34	50.17	50.49	51.13	51.30
	30	42.50	45.31	47.23	48.43	49.44	50.27	50.59	51.23	51.40
	40	43. 0	45.41	47.33	48.53	49.54	50.37	51. 9	51.33	51.50
	50	43.10	45.51	47.42	49. 3	50. 4	50.47	51.19	51.42	52. 0
58	0	43.20	46. 0	47.52	49.13	50.14	50.57	51.29	51.52	52. 9
	10	43.30	46.10	48. 2	49.23	50.24	51. 6	51.38	52. 2	52.19
	20	43.40	46.20	48.12	49.33	50.34	51.16	51.48	52.12	52.29
	30	43.50	46.30	48.22	49.43	50.43	51.26	51.58	52.22	52.39
	40	44. 0	46.40	48.32	49.53	50.53	51.36	52. 8	52.32	52.49
	50	44.10	46.50	48.42	50. 3	51. 3	51.46	52.18	52.41	52.59
59	0	44.20	47. 0	48.52	50.13	51.13	51.56	52.28	52.51	53. 8
	10	44.30	47.10	49. 2	50.23	51.23	52. 6	52.38	53. 1	53.18
	20	44.40	47.20	49.12	50.33	51.33	52.16	52.48	53.11	53.28
	30	44.50	47.30	49.22	50.43	51.43	52.26	52.58	53.21	53.38
	40	45. 0	47.40	49.32	50.53	51.53	52.36	53. 7	53.31	53.48
	50	45. 9	47.50	49.42	51. 2	52. 3	52.46	53.17	53.41	53.58
60	0	45.19	48. 0	49.52	51.12	52.13	52.56	53.27	53.50	54. 7
	10	45.29	48.10	50. 2	51.22	52.23	53. 5	53.37	54. 0	54.17
	20	45.39	48.20	50.12	51.32	52.33	53.15	53.47	54.10	54.27
	30	45.49	48.30	50.22	51.42	52.43	53.25	53.57	54.20	54.37
	40	45.59	48.40	50.32	51.52	52.52	53.35	54. 7	54.30	54.47
	50	46. 9	48.50	50.42	52. 2	53. 2	53.45	54.16	54.40	54.57
61	0	46.19	49. 0	50.52	52.12	53.12	53.55	54.26	54.50	55. 6
	10	46.29	49.10	51. 2	52.22	53.22	54. 4	54.36	54.59	55.16
	20	46.39	49.20	51.12	52.32	53.32	54.14	54.46	55. 9	55.26
	30	46.49	49.30	51.22	52.42	53.42	54.24	54.56	55.19	55.36
	40	46.59	49.40	51.32	52.52	53.52	54.34	55. 6	55.29	55.46
	50	47. 9	49.50	51.42	53. 2	54. 2	54.44	55.16	55.39	55.56
62	0	47.19	50. 0	51.52	53.12	54.12	54.54	55.26	55.49	56. 5

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Moon's horizontal Parallax.		Apparent Altitude of the Moon's Center.								
		12°	13°	14°	15°	16°	17°	18°	19°	20°
		Corr.	Corr.	Corr.	Corr.	Corr.	Corr.	Corr.	Corr.	Corr.
M	S	M S	M S	M S	M S	M S	M S	M S	M S	M S
53	0	47.27	47.35	47.40	47.42	47.40	47.36	47.31	47.23	47.13
	10	47.37	47.45	47.50	47.52	47.50	47.46	47.41	47.33	47.22
	20	47.47	47.55	47.59	48. 1	47.59	47.55	47.50	47.42	47.32
	30	47.56	48. 4	48. 9	48.11	48. 9	48. 5	48. 0	47.52	47.41
	40	48. 6	48.14	48.19	48.21	48.19	48.15	48. 9	48. 1	47.50
	50	48.16	48.24	48.28	48.30	48.28	48.24	48.19	48.10	48. 0
54	0	48.26	48.34	48.38	48.40	48.38	48.34	48.28	48.20	48. 9
	10	48.36	48.43	48.48	48.50	48.47	48.43	48.38	48.29	48.19
	20	48.45	48.53	48.58	48.59	48.57	48.53	48.47	48.39	48.28
	30	48.55	49. 3	49. 7	49. 9	49. 6	49. 2	48.57	48.48	48.38
	40	49. 5	49.13	49.17	49.19	49.16	49.12	49. 6	48.58	48.47
	50	49.15	49.22	49.27	49.28	49.26	49.21	49.16	49. 7	48.57
55	0	49.25	49.32	49.36	49.38	49.35	49.31	49.25	49.16	49. 6
	10	49.34	49.42	49.46	49.48	49.45	49.41	49.35	49.25	49.16
	20	49.44	49.52	49.56	49.57	49.54	49.50	49.44	49.35	49.25
	30	49.54	50. 1	50. 5	50. 7	50. 4	50. 0	49.54	49.44	49.34
	40	50. 4	50.11	50.15	50.16	50.14	50.10	50. 3	49.53	49.44
	50	50.14	50.21	50.25	50.26	50.23	50.19	50.13	50. 3	49.53
56	0	50.23	50.31	50.35	50.36	50.33	50.29	50.22	50.13	50. 2
	10	50.33	50.41	50.44	50.45	50.42	50.38	50.32	50.22	50.12
	20	50.43	50.50	50.54	50.55	50.52	50.48	50.41	50.32	50.21
	30	50.53	51. 0	51. 4	51. 5	51. 2	50.57	50.51	50.41	50.31
	40	51. 2	51.10	51.13	51.14	51.11	51. 7	51. 0	50.51	50.40
	50	51.12	51.20	51.23	51.24	51.21	51.16	51.10	51. 0	50.50
57	0	51.22	51.29	51.33	51.34	51.31	51.26	51.19	51.10	50.59
	10	51.32	51.39	51.42	51.43	51.40	51.35	51.29	51.19	51. 8
	20	51.42	51.49	51.52	51.53	51.50	51.45	51.38	51.29	51.18
	30	51.51	51.59	52. 2	52. 2	51.59	51.54	51.48	51.38	51.27
	40	52. 1	52. 8	52.11	52.12	52. 9	52. 4	51.57	51.47	51.37
	50	52.11	52.18	52.21	52.22	52.19	52.14	52. 7	51.57	51.46
58	0	52.21	52.28	52.31	52.31	52.28	52.23	52.16	52. 6	51.55
	10	52.30	52.38	52.41	52.41	52.38	52.33	52.26	52.16	52. 5
	20	52.40	52.47	52.50	52.51	52.48	52.43	52.35	52.25	52.14
	30	52.50	52.57	53. 0	53. 0	52.57	52.52	52.45	52.35	52.23
	40	53. 0	53. 7	53.10	53.10	53. 7	53. 2	52.54	52.44	52.33
	50	53.10	53.17	53.19	53.20	53.17	53.11	53. 4	52.54	52.42
59	0	53.19	53.26	53.29	53.29	53.26	53.21	53.13	53. 3	52.51
	10	53.29	53.36	53.39	53.39	53.36	53.30	53.23	53.13	53. 1
	20	53.39	53.46	53.49	53.49	53.46	53.40	53.32	53.22	53.10
	30	53.49	53.56	53.58	53.58	53.55	53.50	53.42	53.32	53.20
	40	53.58	54. 5	54. 8	54. 8	54. 5	53.59	53.51	53.41	53.29
	50	54. 8	54.15	54.18	54.18	54.14	54. 9	54. 1	53.51	53.39
60	0	54.18	54.25	54.28	54.27	54.24	54.18	54.10	54. 0	53.48
	10	54.28	54.35	54.37	54.37	54.34	54.28	54.20	54. 9	53.57
	20	54.38	54.44	54.47	54.47	54.43	54.38	54.29	54.19	54. 7
	30	54.47	54.54	54.57	54.56	54.53	54.47	54.39	54.28	54.16
	40	54.57	55. 4	55. 6	55. 6	55. 2	54.57	54.48	54.38	54.25
	50	55. 7	55.14	55.16	55.16	55.12	55. 6	54.58	54.47	54.35
61	0	55.17	55.23	55.26	55.25	55.21	55.16	55. 7	54.57	54.44
	10	55.27	55.33	55.35	55.35	55.31	55.25	55.17	55. 6	54.53
	20	55.36	55.43	55.45	55.45	55.41	55.35	55.26	55.15	55. 3
	30	55.46	55.53	55.55	55.54	55.50	55.45	55.36	55.25	55.12
	40	55.56	56. 2	56. 4	56. 4	56. 0	55.54	55.45	55.33	55.21
	50	56. 6	56.12	56.14	56.14	56. 9	56. 4	55.55	55.44	55.31
62	0	56.16	56.22	56.24	56.23	56.19	56.13	56. 4	55.53	55.40

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Moon's horizontal Parallax.		Apparent Altitude of the Moon's Center.								
		21°	22°	23°	24°	25°	26°	27°	28°	29°
		Corr.	Corr.	Corr.	Corr.	Corr.	Corr.	Corr.	Corr.	Corr.
	S	M S	M S	M S	M S	M S	M S	M S	M S	M S
53	0	47. 2	46. 48	46. 33	46. 18	46. 0	45. 42	45. 22	45. 1	44. 39
	10	47. 11	46. 57	46. 42	46. 27	46. 9	45. 51	45. 31	45. 10	44. 48
	20	47. 21	47. 7	46. 52	46. 36	46. 18	46. 0	45. 40	45. 19	44. 56
	30	47. 30	47. 16	47. 1	46. 45	46. 27	46. 9	45. 49	45. 27	45. 5
	40	47. 39	47. 25	47. 10	46. 54	46. 36	46. 18	45. 58	45. 36	45. 13
	50	47. 49	47. 34	47. 19	47. 3	46. 45	46. 27	46. 7	45. 45	45. 22
54	0	47. 58	47. 44	47. 29	47. 12	46. 55	46. 36	46. 16	45. 54	45. 31
	10	48. 7	47. 53	47. 38	47. 22	47. 4	46. 45	46. 24	46. 3	45. 39
	20	48. 17	48. 2	47. 47	47. 31	47. 13	46. 54	46. 33	46. 12	45. 48
	30	48. 26	48. 12	47. 57	47. 40	47. 22	47. 3	46. 42	46. 21	45. 57
	40	48. 35	48. 21	48. 6	47. 49	47. 31	47. 12	46. 51	46. 29	46. 6
	50	48. 45	48. 30	48. 15	47. 58	47. 40	47. 21	47. 0	46. 38	46. 15
55	0	48. 54	48. 39	48. 24	48. 7	47. 49	47. 30	47. 9	46. 47	46. 24
	10	49. 4	48. 49	48. 33	48. 16	47. 58	47. 39	47. 18	46. 56	46. 32
	20	49. 13	48. 58	48. 42	48. 25	48. 7	47. 48	47. 27	47. 5	46. 41
	30	49. 22	49. 7	48. 52	48. 35	48. 17	47. 57	47. 36	47. 13	46. 50
	40	49. 32	49. 17	49. 1	48. 44	48. 26	48. 6	47. 45	47. 22	46. 58
	50	49. 41	49. 26	49. 10	48. 53	48. 35	48. 15	47. 54	47. 31	47. 7
56	0	49. 50	49. 35	49. 19	49. 2	48. 44	48. 24	48. 3	47. 40	47. 16
	10	49. 59	49. 44	49. 28	49. 11	48. 53	48. 33	48. 12	47. 49	47. 25
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62	0	55. 26	55. 9	54. 51	54. 31	54. 10	53. 47	53. 23	52. 58	52. 31

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