

MONTHLY MOONLIGHT DIAGRAMS— JULY 1945



EXPLANATION

In each diagram time is represented on the horizontal axis in hours of local civil time from 4 P. M. to 4 A. M. For the date shown, the moon's position is indicated by the hour angle, altitude is indicated in degrees on the right and left hand vertical scales. Hours of darkness are shown by the black area.

The following information is provided for the convenience of Greenwich:

- (1) The local civil time of sunset and the duration of evening twilight.
- (2) The local civil time of sunrise and the duration of morning twilight.
- (3) The local civil time of moonset and moonrise.
- (4) The phase of the moon.
- (5) The time of moonset and moonrise.
- (6) The time of moonset and moonrise.
- (7) The time of moonset and moonrise.
- (8) The time of moonset and moonrise.
- (9) The time of moonset and moonrise.
- (10) The time of moonset and moonrise.
- (11) The time of moonset and moonrise.
- (12) The time of moonset and moonrise.
- (13) The time of moonset and moonrise.
- (14) The time of moonset and moonrise.
- (15) The time of moonset and moonrise.
- (16) The time of moonset and moonrise.
- (17) The time of moonset and moonrise.
- (18) The time of moonset and moonrise.
- (19) The time of moonset and moonrise.
- (20) The time of moonset and moonrise.
- (21) The time of moonset and moonrise.
- (22) The time of moonset and moonrise.
- (23) The time of moonset and moonrise.
- (24) The time of moonset and moonrise.
- (25) The time of moonset and moonrise.
- (26) The time of moonset and moonrise.
- (27) The time of moonset and moonrise.
- (28) The time of moonset and moonrise.
- (29) The time of moonset and moonrise.
- (30) The time of moonset and moonrise.

The altitude can be read on the vertical axis at the point of the curve corresponding to the time of the observation.

Hours by the horizontal extent of the white portion below the curve in the black area.

Hours by the white extent in black area.

Hours by the location of the letters S, W, N, E, on the left axis.

For latitude between 60° and 0°, the value of the quantity shown may be approximated by interpolation.

A vertical line drawn from the top of Greenwich may be used between consecutive diagrams by a comparison between the preceding or following diagrams.

The following additional information is given in tabular form:

- (1) The local Greenwich civil time of the occurrence of darkness of sun, moon, first quarter, full moon, and last quarter.
- (2) A table showing the relation between phase and brightness of the moon.

At Greenwich		
July	1	15
1	1	15
2	2	16
3	3	17
4	4	18
5	5	19
6	6	20
7	7	21
8	8	22
9	9	23
10	10	24
11	11	25
12	12	26
13	13	27
14	14	28
15	15	29
16	16	30
17	17	31

Approximate Brightness		
Phase	Full Moon	Brightness
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
10	10	10
11	11	11
12	12	12
13	13	13
14	14	14
15	15	15
16	16	16
17	17	17

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