

MONTHLY MOONLIGHT DIAGRAMS— JULY 1945



EXPLANATION

In each diagram time is represented on the horizontal axis in hours of local civil time from 1 P. M. to 8 A. M. for the date being considered; time on the vertical axis indicates latitude in degrees on the right and sea level vertical angle. Hours of darkness are shown by the black area.

The following information is presented for the month of Greenwich:

- (1) The local civil time of sunset and the duration. Shown by the vertical, straight line at left of the diagram.
- (2) The local civil time of sunrise and the duration. Shown by the vertical, straight line at right of the diagram.
- (3) The local civil time of sunrise and sunset. Shown by the lines of sunrise and sunset on the right and left sides of the diagram.
- (4) The number of hours of moonlight.
- (5) The phase of the moon.
- (6) The time of rising, the time vertical and the number of hours of darkness between sunset and moonrise.
- (7) The time of setting, the time vertical and the number of hours of darkness between moonset and sunrise.
- (8) The number of hours of moonlight.

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

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

Shown by the white circle in black area.

Shown by the location of the letters E, W, N, S, on the horizontal axis.

For latitude between 60° and 0°, the values of the quantities shown may be approximated by interpolation. A complete explanation of the use of Greenwich data may be made from the explanatory 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 Greenwich of sea, sun, one quarter, full moon and last quarter.
- (2) A table showing the relation between phase and brightness of the moon.

At Greenwich		Approximate Brightness	
Phase	Brightness	Phase	Brightness
July 0	18 13	0	0.00
1	18 13	1	0.05
2	18 13	2	0.10
3	18 13	3	0.15
4	18 13	4	0.20
5	18 13	5	0.25
6	18 13	6	0.30
7	18 13	7	0.35
8	18 13	8	0.40
9	18 13	9	0.45
10	18 13	10	0.50
11	18 13	11	0.55
12	18 13	12	0.60
13	18 13	13	0.65
14	18 13	14	0.70
15	18 13	15	0.75
16	18 13	16	0.80
17	18 13	17	0.85
18	18 13	18	0.90
19	18 13	19	0.95
20	18 13	20	1.00

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