

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; hours from four each minute is indicated in degrees on the right and each hour vertical scale. Hours of darkness are shown by the black area.

The following information is presented for the convenience of Greenwich:

- (1) The local civil time of sunset and the duration. Shown by the vertical, straight line at left of the shaded portion.
- (2) The local civil time of sunrise and the duration. Shown by the vertical, straight line at right of the shaded portion.
- (3) The local civil time of sunrise and sunset. Shown by the letters of the hour and minute of sunrise and sunset.
- (4) The altitude of the moon at any time between 1 P. M. and 1 A. M.
- (5) The number of hours of moonlight.
- (6) The phase of the moon.
- (7) The time of setting, the time vertical and the number of hours of civil time remaining after sunset.
- (8) The time of rising, the time vertical and the number of hours of civil time remaining after sunrise.

For latitude between 60° and 0°, the value of the quantities shown may be approximated by interpolation. A complete explanation of the use of Greenwich may be made from the accompanying diagrams by a comparison between the preceding or following diagrams.

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 clock circle in black area.

Shown by the location of the letters S, W, N, E, on the hour scale.

The following additional information is given in white form:

- (1) The local Greenwich civil time of the occurrence of Greenwich of new moon, first 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 2	13	1	1
7	11	2	2
13	7	3	3
19	2	4	4
25	2	5	5
31	2	6	6
		7	7
		8	8
		9	9
		10	10
		11	11
		12	12
		13	13
		14	14
		15	15
		16	16
		17	17
		18	18
		19	19
		20	20
		21	21
		22	22
		23	23
		24	24
		25	25
		26	26
		27	27
		28	28
		29	29
		30	30
		31	31

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