

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 sunrise and the direction. Shown by the vertical, straight line at left of the diagram.
- (2) The local civil time of sunset and the direction. Shown by the vertical, straight line at right of the diagram.
- (3) The local civil time of sunrise and sunset on any day between 1° N. and 1° S. Shown by the lines of sunrise and sunset on any day between 1° N. and 1° S. Shown by the lines of sunrise and sunset on any day between 1° N. and 1° S.
- (4) The altitude of the moon at any time between 1° N. and 1° S. Shown by the lines of sunrise and sunset on any day between 1° N. and 1° S.
- (5) The number of hours of moonlight. Shown by the horizontal extent of the white portion below the curve in the black area.
- (6) The phase of the moon. Shown by the white portion in the black area.
- (7) The time of setting, the time vertical and the number of hours of darkness between sunrise and sunset. Shown by the letters E, W, N, S, on the horizontal axis.

For latitude between 1° and 1° S, 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 following additional information is given in tabular form:

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

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

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