

The Moon • July 2011

Phases

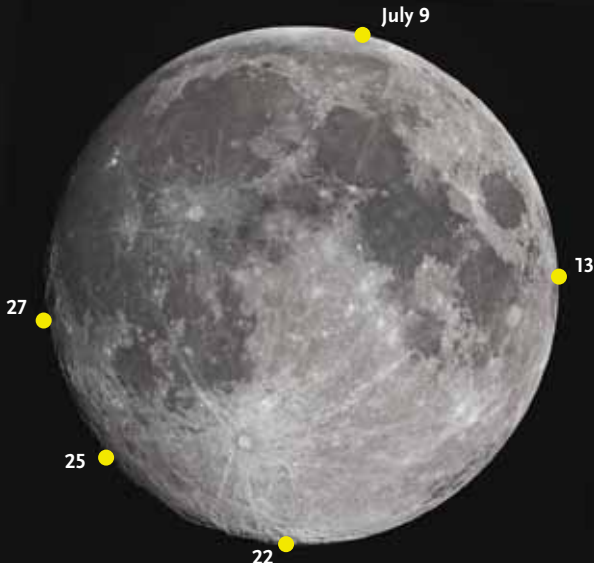
New Moon	July 1, 8:54 UT
First quarter	July 8, 6:29 UT
Full Moon	July 15, 6:40 UT
Last quarter	July 23, 5:02 UT
New Moon	July 30, 18:40 UT

Distances

Perigee	July 7, 14 ^h UT
232,557 miles	diam. 31' 55"
Apogee	July 21, 23 ^h UT
252,468 miles	diam. 29' 24"

Librations

Petermann (crater)	July 9
Mare Smythii	July 13
Malapert (crater)	July 22
Baade (crater)	July 25
Lacus Autumni	July 27



S&T: DENNIS DI CICCO

For key dates, yellow dots on the map indicate what part of the Moon's limb is tipped the most toward Earth by libration under favorable illumination.