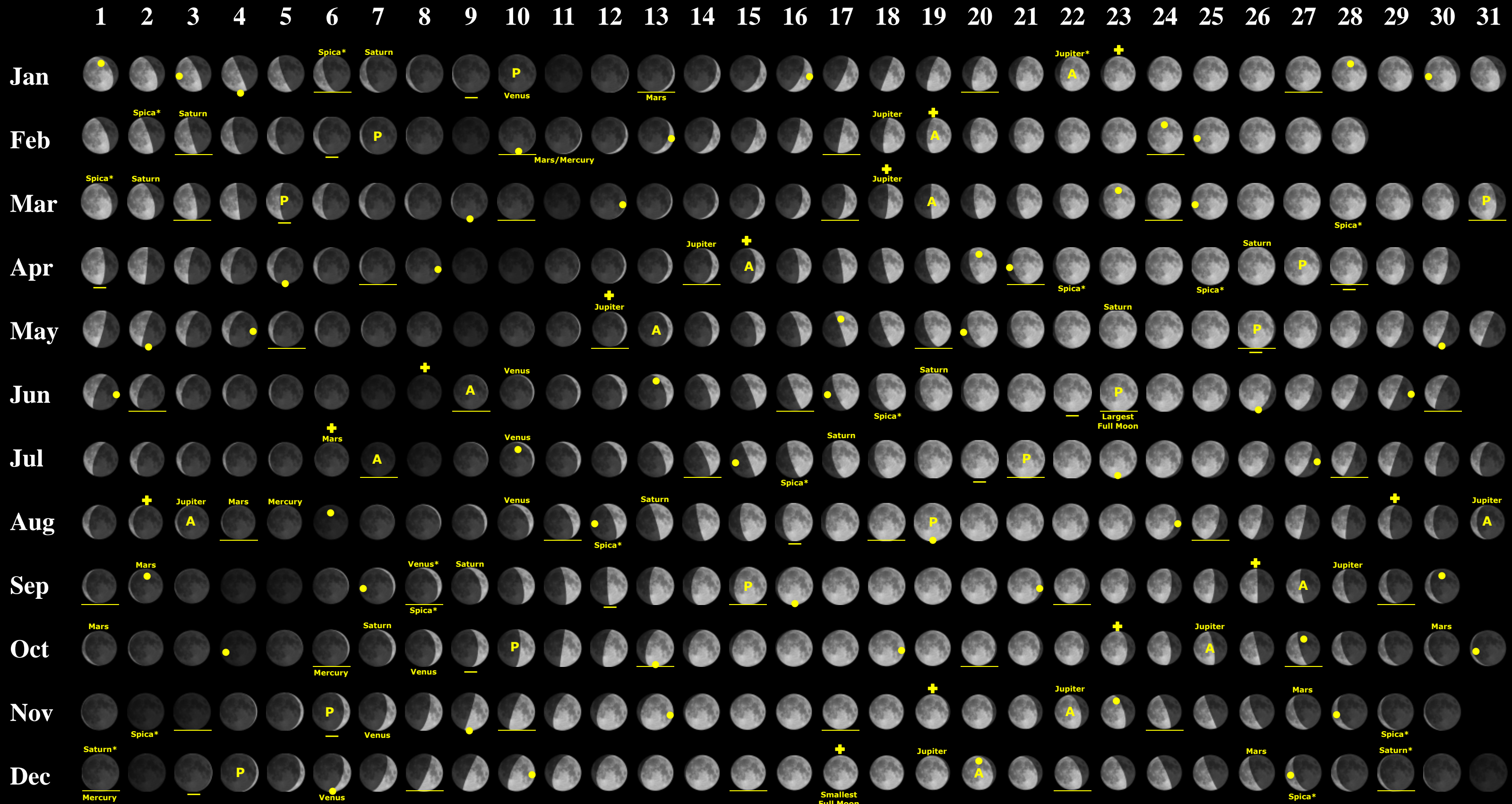


# 2013 Moon Phase Calendar

Newcastle Observatory  
 43° 54' 57" North, 78° 34' 59" West  
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The phase of the Moon is depicted for each day of the year. Largest and smallest Full Moons are noted. Underlined phases indicate Sunday. The following circumstances occur on the UT date: The '●' symbol denotes maximum north, south, east and west limb exposures due to Lunar libration. The '+' symbols above and '-' below each phase denote the maxima and minima of the Moon's declination in each month. The letters 'A' and 'P' denote the Moon's Apogee (furthest from Earth) and Perigee (closest to Earth). Planets and bright stars within 10 degrees of the Moon are indicated as being above or below the Moon for the date shown. An asterisk (\*) indicates an occultation of the object by the Moon visible from limited geographic locations.