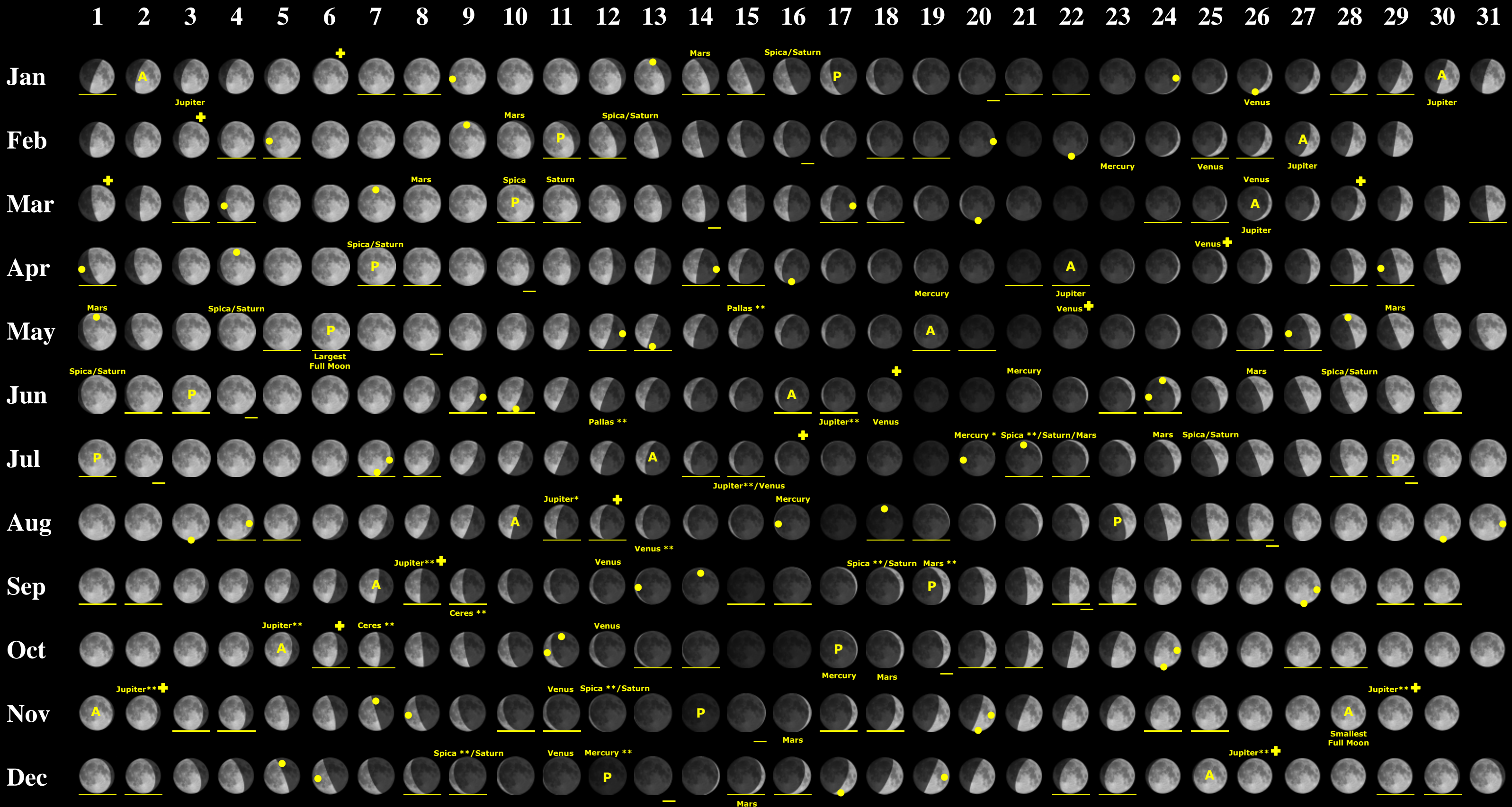


2012 Moon Phase Calendar

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. Underlined phases indicate Saturday / Sunday. The following circumstances occur on the UT date (0h UT is 7 pm EST), which is the previous evening in the western hemisphere: 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, brighter stars, and other objects within 10 degrees of the Moon are indicated as being above or below the Moon for the date shown. An asterisk (*) indicates the object is less than 1 degree from the Moon, and a double asterisk (**) indicates that the object is less than 1 degree from the Moon, or an occultation of the object by the Moon visible from limited geographic locations.