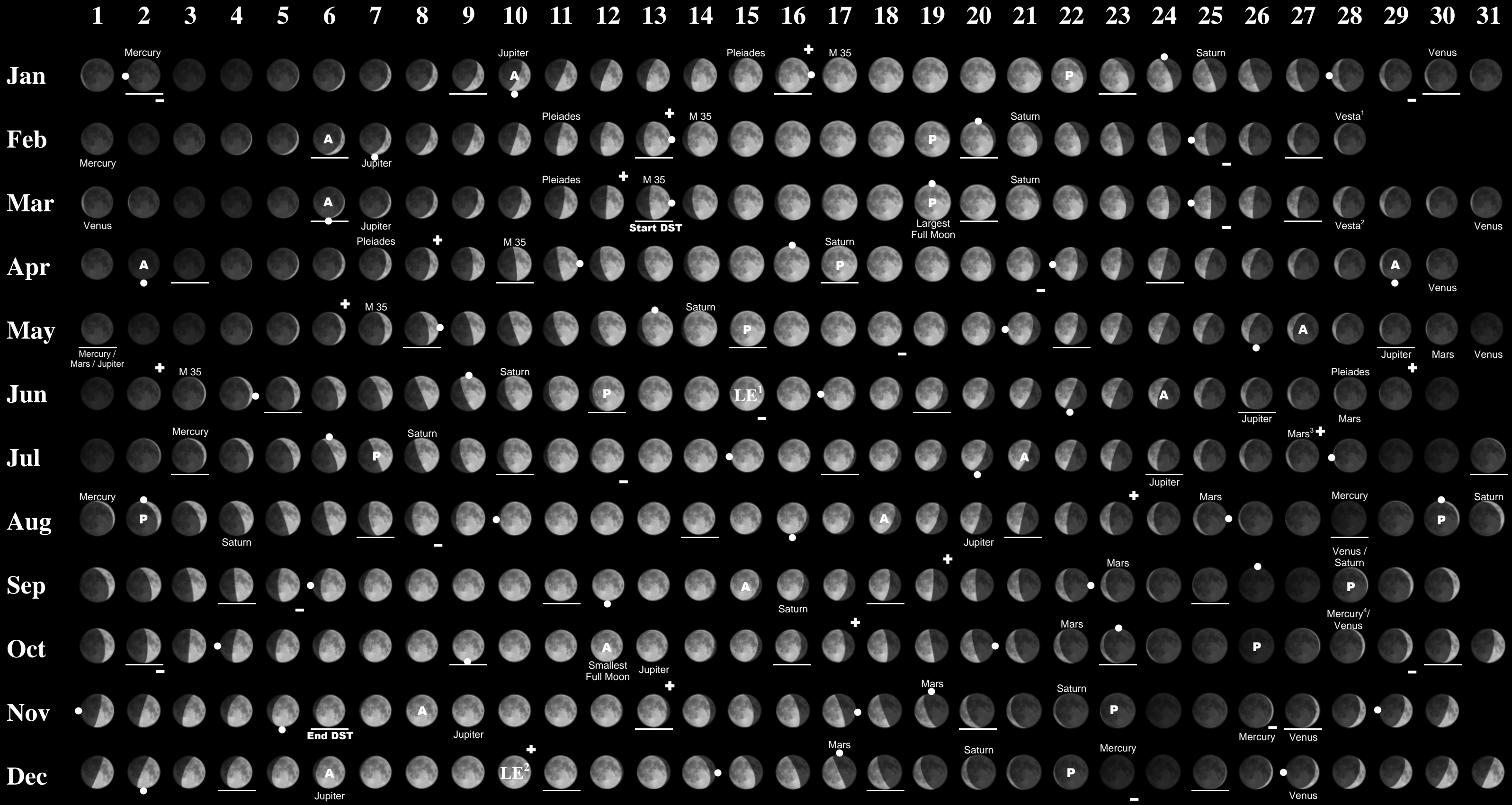


2011 Moon Phase Calendar

Newcastle Observatory
 43° 54' 57" North, 78° 34' 59" West, 95m ASL
 © 2011 Michael J. Cook, newcastleobservatory.com



The phase of the Moon is depicted for each day of the year at 9 PM Eastern Standard Time (10 PM Eastern Daylight Savings time). Underlined phases indicate Sundays. 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). 'LE' denotes Lunar Eclipse. Eclipse type and visibility: LE¹ Total eclipse will be visible from East Africa, Middle East, Asia, Australia, Europe (except Scotland and Scandinavia), and East part of South America; LE² Total eclipse will be visible from west North America, Middle East, Asia, and Australia. 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. Occultations by the Moon visibility: 1. Antarctica, South Pacific Ocean; 2. Iceland; 3. Samoa, Kiribati, French Polynesia, South half of South America; 4. Malaysia, Indonesia, SE Papua New Guinea, Australia, New Zealand, New Caledonia, French Polynesia.