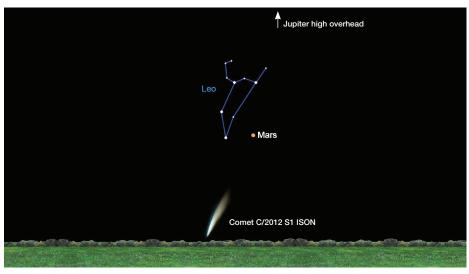




You can see Mars with your own eyes! Here is where to look:

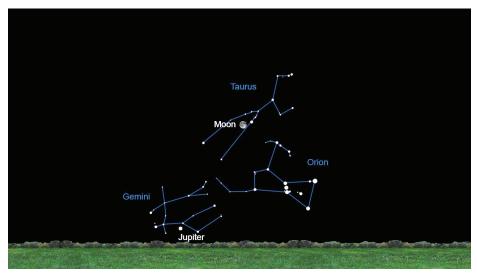
Here's Where to Look

Before Dawn November 18



Eastern Horizon at 5:00 a.m. Compare white Regulus to orange Mars.

Early Evening November 18

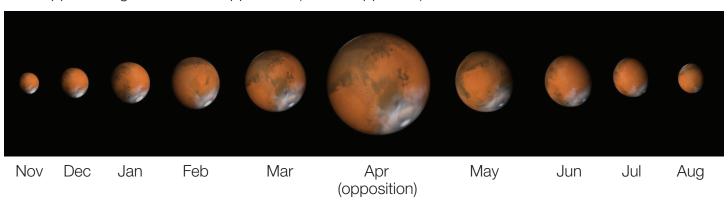


Eastern Horizon at 9:00 p.m.

Viewing Mars from launch to orbit insertion

Nov 2013	MAVEN Launches to Mars. Moon near Mars Nov 27
Dec 2013	Mars closer than 1.5 AU. Moon above Mars on 25th, below Mars on 26th
Jan 2014	Look for N. Polar Cap through telescopes. See moon near Mars Jan. 21-23
Feb 2014	Mars comes closer than 1.0 AU. Increases in brightness and apparent size.
Mar 2014	Near moon March 18-19. Apparent diameter reaches 15" arc-seconds. Apparent brightness exceeds -1.0 mag.
April 2014	April 14: Closest approach of Mars and Earth (0.61756 AU = 92.39 million km). Apparent diameter of Mars is 15.16".
May 2014	Mars' apparent brightness becomes fainter than -1.0 mag. Moon between Mars and Saturn May 12
Jun 2014	Mars' apparent brightness becomes fainter than 0.0 mag. Apparent diameter of Mars decreases below 10".
Jul 2014	Moon between Mars and Jupiter after sunset
Aug 2014	Moon between Saturn and Mars August 3 at sunset
Sept 2014	Watch moon, Mars and Saturn first week of September. Mars moves beyond 1.5 AU distance. Maven Mars Orbit Insertion
Oct 2014	Moon above Mars and Saturn near southwestern horizon at sunset at beginning of month.

Mars appears larger as it nears opposition (closest approach), and then smaller.



National Aeronautics and Space Administration

Jet Propulsion Laboratory California Institute of Technology Pasadena, California