















# December 2009 USM Southworth Planetarium 207-780-4249

www.usm.maine.edu/planet

Sun	Mon	Tue	Wed	Thu	Fri	Sat
<p>CALENDAR COLOR CODE Planetarium shows/events: Red Astron. events: purple Definition: Orange Blue: astronomical objects</p>	<p>Christmas Tree Cluster</p> 	<p>1 Christmas Tree Cluster: A cluster of stars embedded in a diffuse nebula. This cluster, located in the constellation Monoceros, is 2600 light years away.</p>	<p>2  Full Moon <b>TELESCOPE WORKSHOP</b> 6:30 p.m. Details attached</p>	<p>3  <b>ORION NEBULA</b></p>	<p>4 7:00 Season of Light 8:30 Extreme Planets  Lepus the Hare: SE evening sky Moon at perigee</p>	<p>5 <b>SCI-FI SATURDAY:</b> 12:00 p.m. "Close Encounters of the Third Kind." Details on back 3:00 Season of Light</p>
<p>6 3:00 Season of Light  Mars 6° N of Moon</p>	<p>7 Earth at night </p>	<p>8 <i>Did you know..</i> The full moon is ten times brighter than the quarter moon  Last Quarter Moon</p>	<p>9 Greater Portland Astronomical Society Meeting. 7:00 p.m. Free and open to the public.</p>	<p>10  Saturn 8° N of the Moon</p>	<p>11 7:00 Season of Light 8:30 Black Holes</p>	<p>12 3:00 Season of Light Carolyn Currie Concert: 7:00 p.m. Details attached</p>
<p>13 3:00 Season of Light  Learn the history of Santa Claus in "Season of Light"</p>	<p>14  Orion the Hunter</p>	<p>15 Orion the Hunter is the bright winter constellation one can see this month in the eastern early evening sky.</p>	<p>16 The Pleiades star cluster, now visible high in the eastern evening sky, is a star cluster containing almost 200 stars!  NEW MOON</p>	<p>17  Pleiades</p>	<p>18 <b>SOLSTICE DAWNING</b> 7:00 p.m. Celestial Poetry Evening (Details on back) -Mercury 1.4° S of Moon -Mercury greatest eastern elongation 20°</p>	<p>19 3:00 Season of Light  Discover the history of Hanukkah in "Season of Light."</p>
<p>20 3:00 Season of Light  Moon at apogee</p>	<p>21  Astronomical Winter begins 12:47 p.m.</p>	<p>22  A Blue Moon is the second full moon in one month. We have a blue moon on the 31<sup>st</sup>. The Moon will not actually appear blue, however.</p>	<p>23  Visit our gift shop for your holiday shopping needs!</p>	<p>24 The Southworth Planetarium staff wish you and yours a happy holiday season!  First Quarter Moon</p>	<p>25 <b>CHRISTMAS Planetarium Closed</b></p>	<p>26 3:00 Season of Light  364 shopping days until Christmas</p>
<p>27 <b>FREE SUNDAY</b> 1:00 Season of Light 3:00 Fires in the Sky</p>	<p>28 11:00 Rusty Rocket 1:00 Season of Light</p>	<p>29 11:00 Eight Planets 1:00 Extreme Planets</p>	<p>30 11:00 Rusty Rocket 1:00 Season of Light</p>	<p>31 11:00 Eight Planets 1:00 Extreme Planet Full Moon</p>	<p>New Year's Eve at the Southworth Planetarium! 7:00 p.m. - Midnight</p>	<p>We observe the end of the International Year of Astronomy. DETAILS ATTACHED!</p>