

# October 2009 USM Southworth Planetarium 207-780-4249



Web-site: [usm.maine.edu/planet](http://usm.maine.edu/planet)

Sun	Mon	Tue	Wed	Thu	Fri	Sat
<p>8<sup>th</sup> Annual Halloween Party October 30</p>	<p>NEW! "THE GHOST HOUR" 10/30/09 8:00 p.m. (See attached sheet)</p>	<p>Andromeda Galaxy</p>	<p>Andromeda: the chained princess</p>	<p>1</p> <p>Details on back Night Sky Mythology Three Thurs. evenings 7:00 - 8:30 p.m.</p>	<p>2</p> <p>7:00 Extreme Planets 8:30 Eight Planets Explore the planets in our "Eight Planets" program.</p>	<p>3</p> <p>3:00 Moon Witch See the "Moon Witch" program every Saturday and Sunday!</p>
<p>4 Full Moon 3:00 Moon Witch</p>	<p>5</p> <p>Mercury greatest western elongation 18°</p>	<p>6</p> <p>MERCURY WATCH: Eastern pre-dawn sky early to mid month.</p>	<p>7</p> <p>RING NEBULA: Lyra the Harp</p>	<p>8</p> <p>Mercury 0.3° S of Saturn</p>	<p>9</p> <p>7:00 Black Holes 8:30 2 Pieces of Glass Learn the science of telescopes in the show "Two Pieces of Glass."</p>	<p>10</p> <p>3:00 Moon Witch Did you know.. 25% of all candy sold in the US each year is Halloween candy?</p>
<p>11 Last Quarter 3:00 Moon Witch</p> <p>Mars 1.2° N of the Moon</p>	<p>12</p> <p>VENUS WATCH (Leo) Bright planet in the eastern early morning sky this month.</p>	<p>13</p> <p>Venus 0.6° S of Saturn Jupiter stationary</p>	<p>14</p> <p>The Greater Portland Astronomical Society invites you to discover the Universe. Meeting tonight! October 14<sup>th</sup> 7:00 p.m.</p>	<p>15</p> <p>Happy National Grouch Day!</p>	<p>16</p> <p>7:00 Eight Planets 8:30 Ring World Saturn 7° N of the Moon Venus 7° N of the Moon</p>	<p>17</p> <p>3:00 Moon Witch</p> <p>Witch Head Nebula</p>
<p>18 New Moon 3:00 Moon Witch</p> <p>See our Halloween Show, "The Moon Witch!"</p>	<p>19</p> <p>Halloween is a Cross-Quarter Day. A Cross-Quarter Day is a day midway between an Equinox and Solstice.</p>	<p>20</p> <p>MARS WATCH (Cancer) Early morning eastern sky planet this month.</p>	<p>21</p> <p>Antares Antares 1.0° S of the Moon.</p>	<p>22</p> <p>JUPITER WATCH (Capricornus) Southern early evening; western late evening sky.</p>	<p>23</p> <p>7:00 Extreme Planets 8:30 Black Holes The term "Black Hole" was coined by J.A. Wheeler in 1967</p>	<p>24</p> <p>3:00 Moon Witch</p> <p>Do you like to be scared? Attend the Ghost Hour!</p>
<p>25 First Quarter FREE SUNDAY! 1:00 Black Holes 3:00 Moon Witch Moon at apogee</p>	<p>26</p> <p>SATURN WATCH (Virgo) Very low in the pre-dawn eastern sky.</p>	<p>27</p> <p>Saturn 3° S of the Moon</p>	<p>28</p> <p>Moon Fact: The Full Moon is 10 times brighter than the quarter moon.</p>	<p>29</p> <p>October Word Play: What does this mean: GI ————— CCCCCCCC See back for answer</p>	<p>30</p> <p>8<sup>TH</sup> ANNUAL HALLOWEEN PARTY 6:00 - 8:00 p.m. (Details on back)</p>	<p>31</p> <p>3:00 Moon Witch HAPPY HALLOWEEN!</p>