

# M27, Dumbbell Nebula (Vulpecula)

Continuing a series of photograph's of the Messier Objects.

By Jim Mazur - <http://www.skyledge.net/Messier27.htm>, CC BY-SA 4.0, <https://commons.wikimedia.org/w/index.php?>



## Rugby & District Astronomical Society

[www.rugbyastro.org.uk](http://www.rugbyastro.org.uk)

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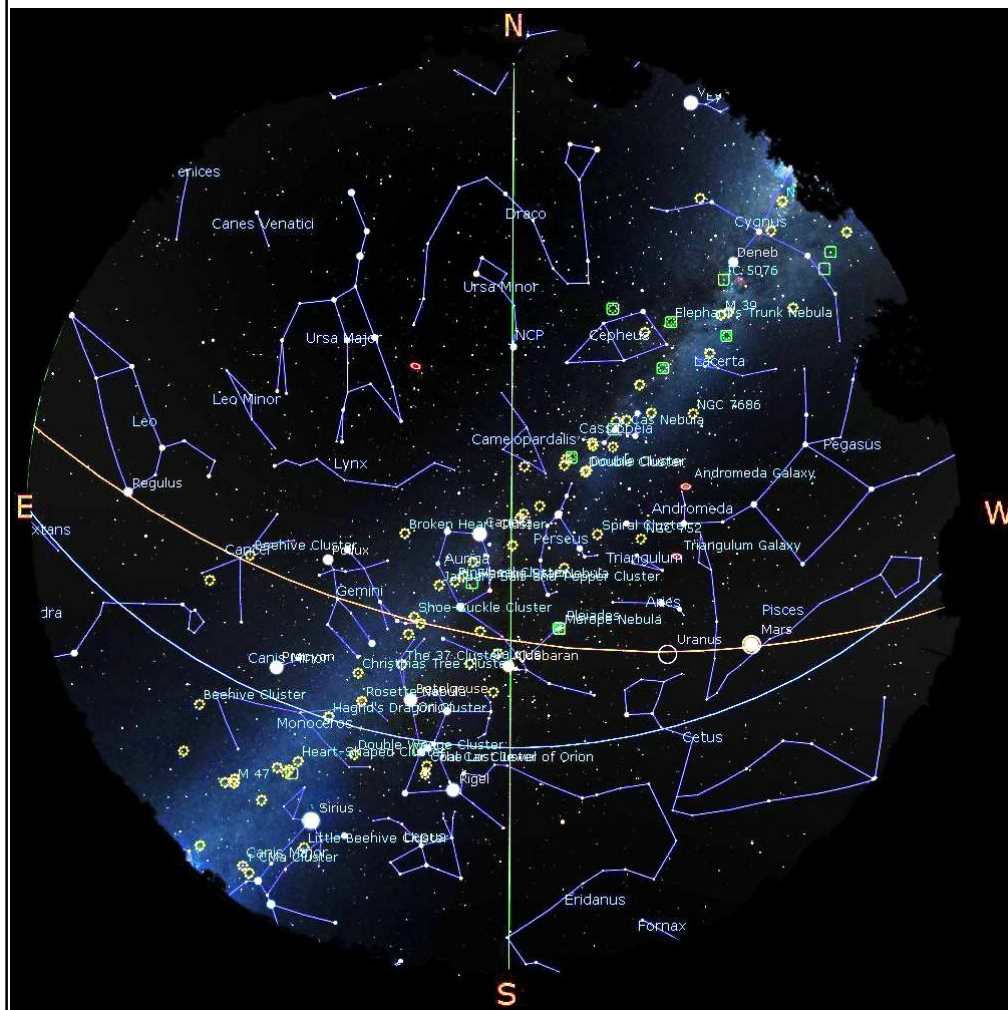
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# Rugby & District Astronomical Society

## Sky Notes






by Chris Longthorn

December 2020, no 133

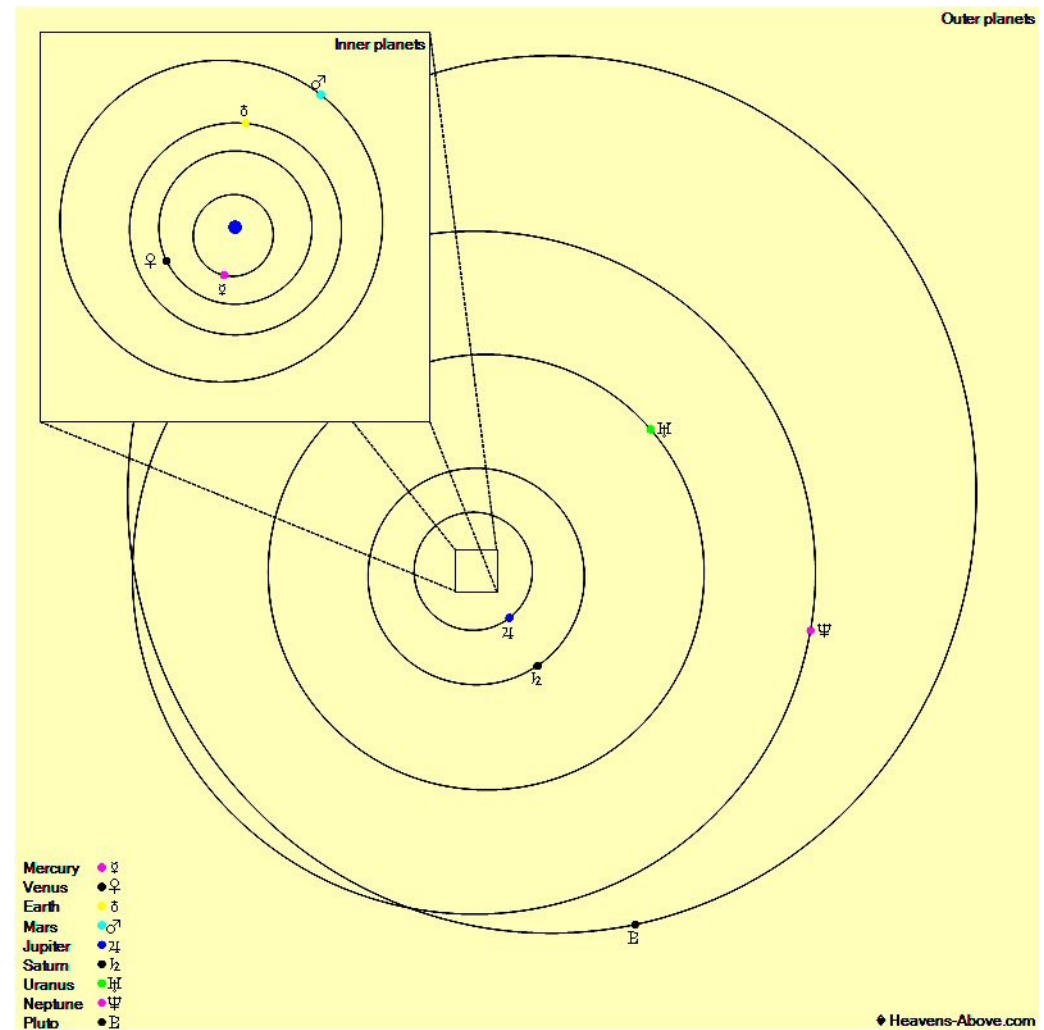


The night sky at 23:00 U.T.C., December 15th 2020

# 2020 December

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
29	 30 <b>Full Moon 09:30</b> <b>Pen Lunar Ec 09:44</b>	<b>1</b> ISS, -3.7, 18:05, 72°, S	<b>2</b> ISS, -3.7, 17:17, 79°, S	<b>3</b> ISS, -3.7, 16:30, 81°, S  ISS, -3.1, 18:07, 50°, SSW	<b>4</b> ISS, -3.4, 17:19, 62°, SSW	<b>5</b> <b>Moon-Beehive 01:10</b> ISS, -3.5, 16:31, 72°, S
6	7	 8 <b>Last Quarter 00:37</b>	9	10	11	<b>12</b> <b>Moon-Venus 20:40</b> <b>Observing at Barby, 8:00 p.m.</b>
<b>13</b> <b>Observing at Barby, 8:00 p.m.</b>	 14 <b>Geminiids 00:35</b> <b>Total Sol Ec 16:15</b> <b>New Moon 16:17</b>	15	16	<b>17</b> <b>Moon-Jupiter 04:28</b> <b>Moon-Saturn 05:25</b>	<b>18</b> <b>Observing at Barby, 8:00 p.m.</b>	<b>19</b> <b>Observing at Barby, 8:00 p.m.</b>
<b>20</b> <b>Mercury Super 02:56</b>  <b>No Meeting</b>	 21 <b>Winter Sol 10:02</b> <b>First Quarter 23:41</b>	<b>22</b> <b>Ursids 09:00</b> <b>Jup-Sat 09:35</b>	23	24	25	26
27	28	29	 30 <b>Full Moon 03:28</b>	31	<b>1</b> <b>Moon-Beehive 07:05 W</b>	<b>2</b> <b>Perihelion 08:59</b>

## The Planets, mid month.



**Mercury** is in Ophiuchus with a magnitude of -1.1, a phase of 100%, and a diameter of 5". It rises at 08:06, transits at 11:49, and sets at 15:32. It is currently too close to the Sun to be observed.

**Venus** is in Libra with a magnitude of -4.0, a phase of 92%, and a diameter of 11". It rises at 05:58, transits at 10:18, and sets at 14:37. It is visible low in the east before sunrise.

**Mars** is in Pisces with a magnitude of -0.7, a phase of 90%, and a diameter of 12". It sets at 02:34, rises again at 12:54, and transits at 19:43. It is visible in the evening sky.

**Jupiter** is in Sagittarius with a magnitude of -2.0 and a diameter of 33". It rises at 10:26, transits at 14:32, and sets at 18:38. It is visible in the evening sky.

**Saturn** is in Sagittarius with a magnitude of +0.6 and a diameter of 15". It rises at 10:27, transits at 14:35, and sets at 18:42. It is visible in the evening sky.

**Uranus** is in Aries with a magnitude of +5.7 and a diameter of 4". It sets at 04:04, rises again at 13:30, and transits at 20:45. It is visible in the evening sky.

**Neptune** is in Aquarius with a magnitude of +7.9 and a diameter of 2". It rises at 12:11, transits at 17:44, and sets at 23:18. It is visible in the evening sky.