Evening Sky

The dark is starting to slip away!!

<table>
<thead>
<tr>
<th></th>
<th>Winter Extremes</th>
<th>Today</th>
<th>Earliest Sunrise</th>
<th>Winter Solstice</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sunrise</td>
<td>1/3/2020</td>
<td>1/14/2020</td>
<td>6/15/2019</td>
<td>12/21/2019</td>
</tr>
<tr>
<td>Diff. from Today</td>
<td>0:02:47</td>
<td>2:19:47</td>
<td>0:00:33</td>
<td></td>
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</tbody>
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Mornings and evenings are losing dark!!

Evening Sky: Venus

25° above horizon at sunset ... sets about 8 pm
In Aquarius, below and left is the fairly bright star Fomalhaut

Orion is high in the early evening
Betelgeuse is dimming!! Fainter than it's been in a century!
Started in October 2019
21st brightest star instead of 6th
Tends to brighten and dim over 6 year span and 425 day span (1 yr, 2 mo)
- blows material off its surface, bright material surfaces from core ...
Will explode as supernova soon ... within 100,000 years ... next year? EXCITING!

The Great Bear is rising ... standing on his tail in early evening

Morning Sky: 3rd ¼ moon on Friday morning: 7:55 am
7:55 am ... look south on your way to work!

Mars just above bright Antaraes in Scorpius
Rises at 4:15 am
22° above SSE horizon at sunrise (7:34 am)

Jupiter on far side of Sun with Saturn, Mercury between us and the Sun
3 planets and the sun within 18°
All in Sagittarius ... lost in the glare!
$D_{\text{Betelgeuse}} = 767 \text{ million miles (about Jupiter's orbit ... 1000 million)}$

$M_{\text{Betelgeuse}} = 13 \, M_{\odot}$

10 million years old ... live big, die young!

642 ly away