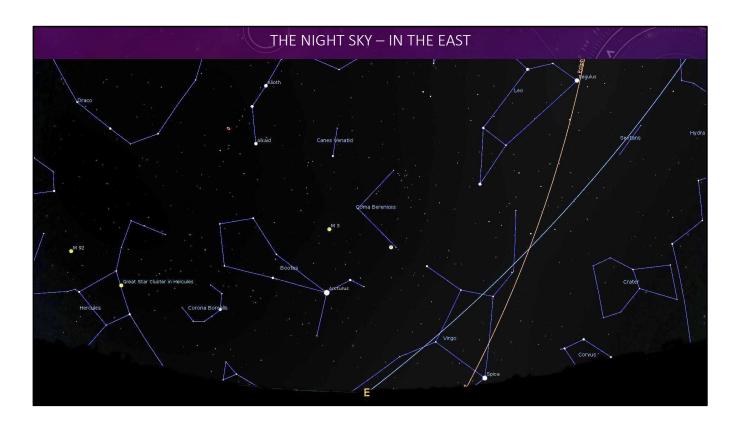
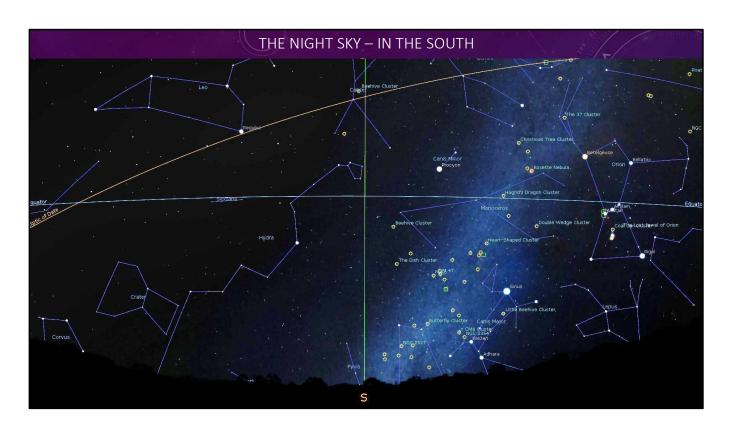


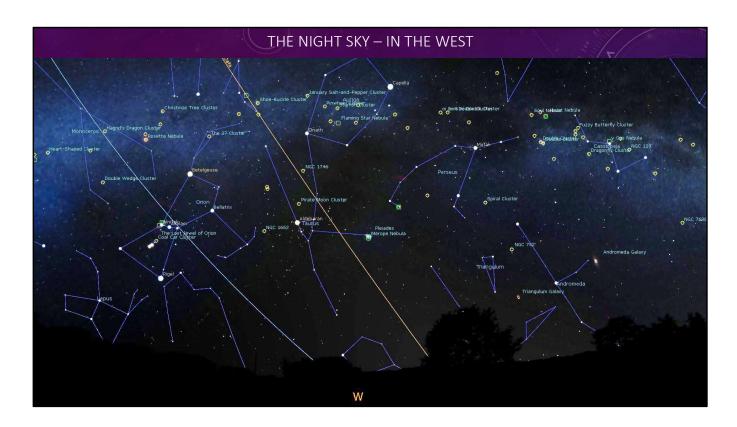
In the north, the milky way meets the horizon, with Cepheus immediately above. Cassiopeia is to the west and Ursa Minor and Draco to the east.



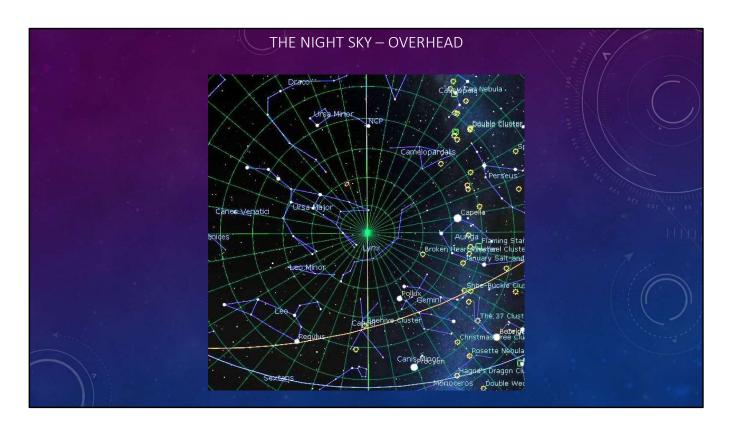
In the east, Hercules has risen along with Bootes and Virgo. Coma Berenices is well risen (lots of galaxies here) and the globular cluster M3 is well placed for observation.



In the south Cancer is on the meridian with Leo to it's left and Gemini to it's right. Below Gemini is Monoceros and Canis Major

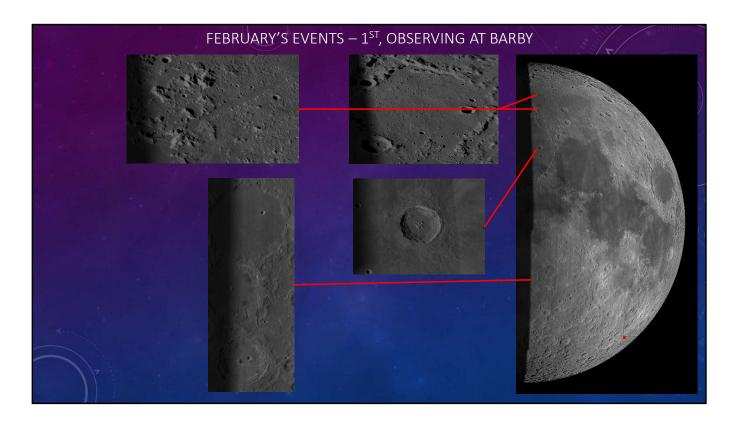


In the west Orion is heading for setting along with Taurus although these constellations are still well placed. Auriga is high in the west as is Perseus. The milky way arcs above this horizon from south to north.



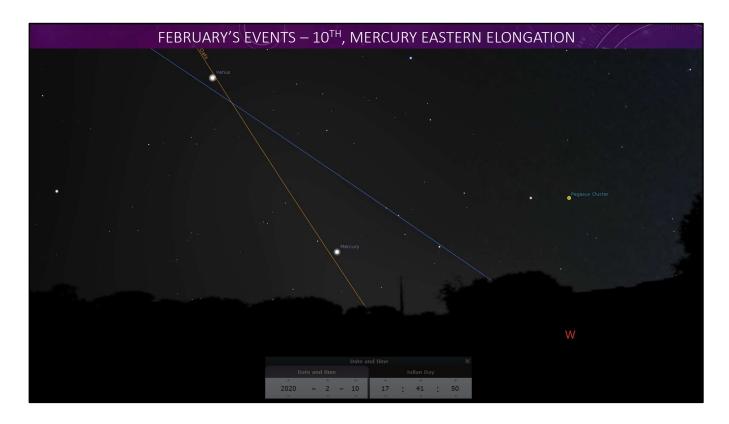
Overhead the zenith is surrounded by Ursa Major and Lynx,

FEBRUARY'S EVENTS – SUNRISE & SUNSET 2020 Sunrise/Sunset Astronomical Nautical Civil Twilight Twilight Twilight Feb Sunrise Sunset Start End Start Start End End 1 07:47 16:51 05:49 18:49 06:29 18:10 07:10 17:29 5 07:41 16:59 05:44 18:56 06:24 18:16 07:04 17:36 10 07:32 17:08 05:36 19:04 06:16 18:25 06:56 17:44 15 07:22 17:18 05:28 19:13 06:07 18:33 06:47 17:53 20 07:12 17:27 05:58 18:42 06:37 05:18 19:21 18:02 18:51 25 07:01 17:37 05:08 19:30 05:48 06:27 18:11 28 06:55 17:42 05:41 18:56 05:02 19:36 06:21 18:17



For observing at Barby on the 1st, the moon is nearly at first quarter so there are some nice craters to observe along the terminator.

- 1. W Bond is a nice well eroded walled plain with a very rugged floor and a rille system.
- 2. The Alpine Valley, with it's central rille.
- 3. Aristillus a super crater with very rugged steep inner walls.
- 4. Ptolemaeus, Alphosus and Arzachel, 3 great walled plains.



On the 10th Mercury is nicely placed above the western horizon, with Venus above.



And in the early morning hours on the 18^{th} , 19^{th} and 20^{th} , the moon passes Mars, Jupiter and Saturn as it heads towards new moon.

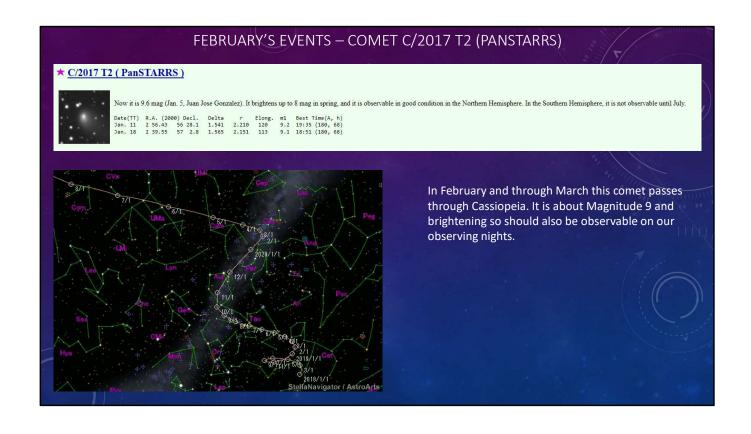


Some suggestions for observing at Barby.

M3 a globular cluster will require a telescope, but the Beehive in Cancer will only need binoculars. M47 is in Canis Major, a little below centre of the line from the beehive to Sirius. And the Pleiades of course. Perseus is in the West so a view of the double cluster is still available.

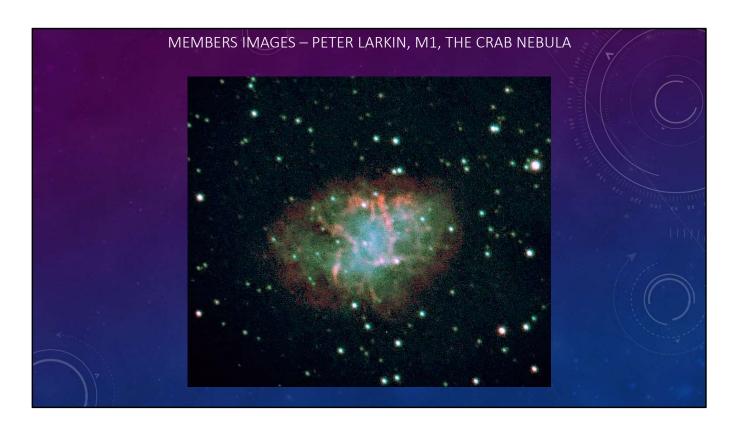


In the evening of the 27th, the moon passes Venus as it grows it's crescent phase.





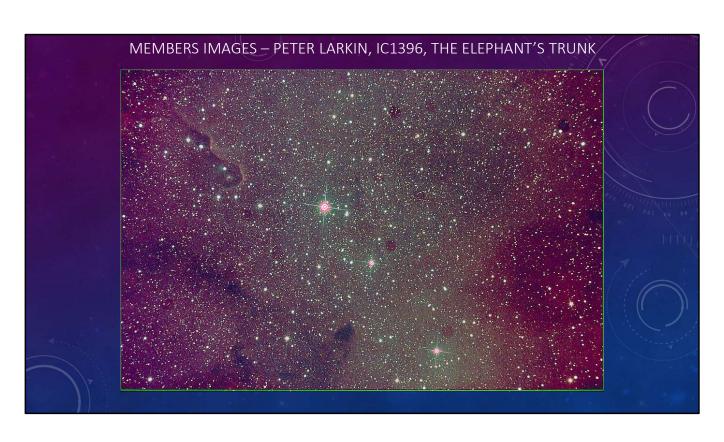
10 stacked images with my 200 mm LX200 and DSLR. The megastar shot shows the 12 mag star it was sitting on top of.



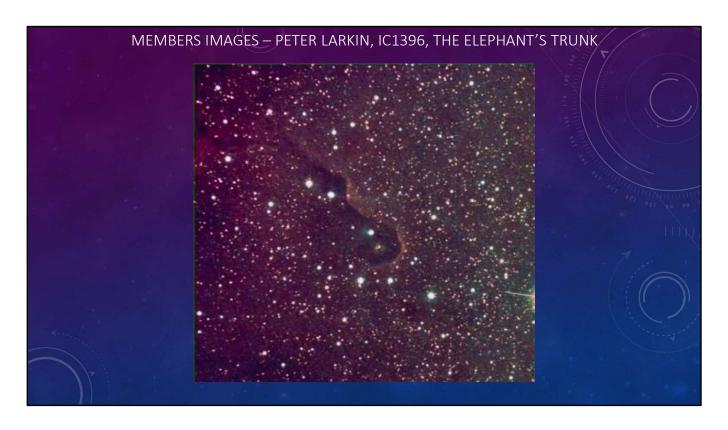
M1 The crab nebula
20 subs 5 minute's
20 darks 5 minute's
20 flats 5 minutes
20 bias
Stacked In DSS
Processed in photo shop light room
Equipment eq6
Altair astro 130 triplet
Canon 600d astro modded



M 45
20 subs 5 minute's
20 darks 5 minute's
20 flats 5 minutes
20 bias
Stacked In DSS
Processed in photo shop light room
Equipment eq6
Altair astro 130 triplet
Canon 600d astro modded



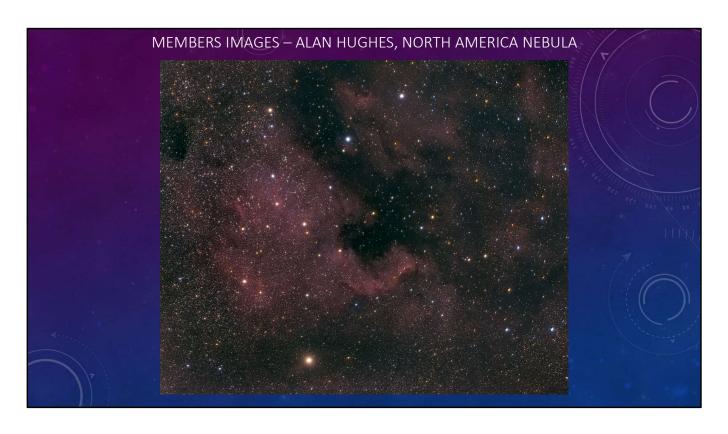
IC 1396 The elephants trunk
20 subs 5 minute's
20 darks 5 minute's
20 flats 5 minutes
20 bias
Stacked In DSS
Processed in photo shop light room
Equipment eq6
Altair astro 130 triplet
Canon 600d astro modded



IC 1396 The elephants trunk
20 subs 5 minute's
20 darks 5 minute's
20 flats 5 minutes
20 bias
Stacked In DSS
Processed in photo shop light room
Equipment eq6
Altair astro 130 triplet
Canon 600d astro modded



NGC1499 in Perseus. Taken 3rd Dec, 48 x 1 min exp @ ISO800



NGC7000 in Cygnus. Taken 9th Dec, 70 x 1 min exp @ ISO800

