Nick James

British Astronomical Association

Observing the Deep Sky

Greenwich B2B – November 2024

Equipment

Naked EyeBinocularsTelescope

Binoculars



Telescopes



Dobsonian Telescopes



Smart telescopes



My telescope is bigger than yours...



The Deep Sky Zoo

Things outside the solar system (except variable stars?)

- Nebulae
 - Bright
 - Dark
 - Planetary
- Clusters of stars
 - Open clusters
 - Globular clusters
- Supernova remnants
- Galaxies

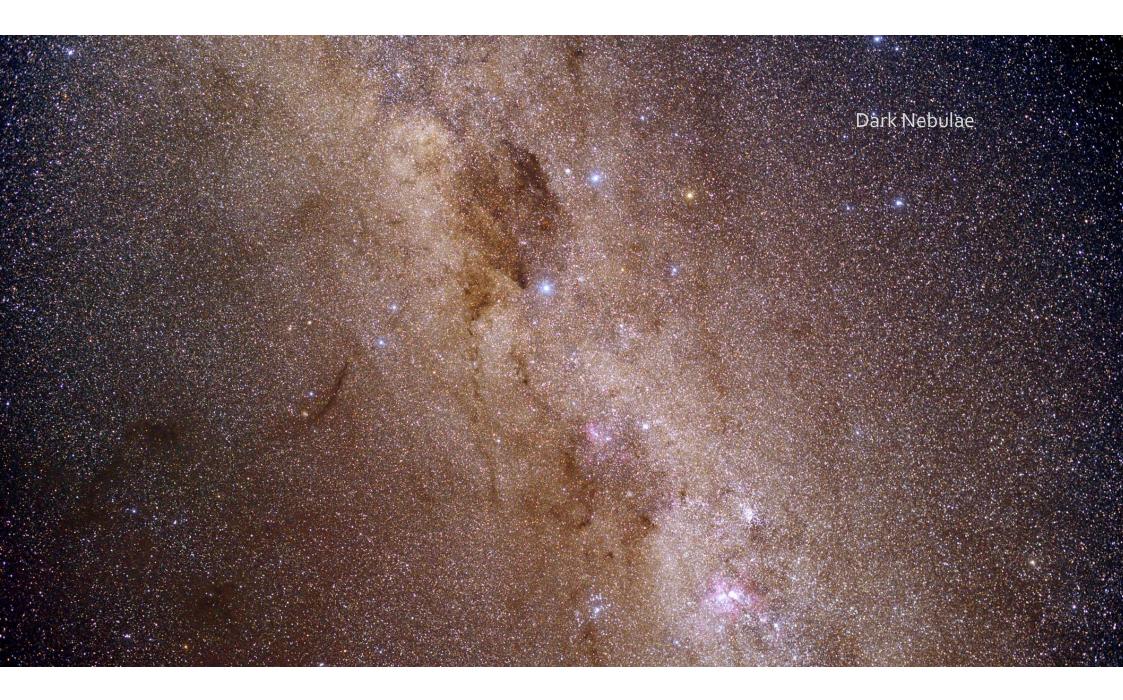






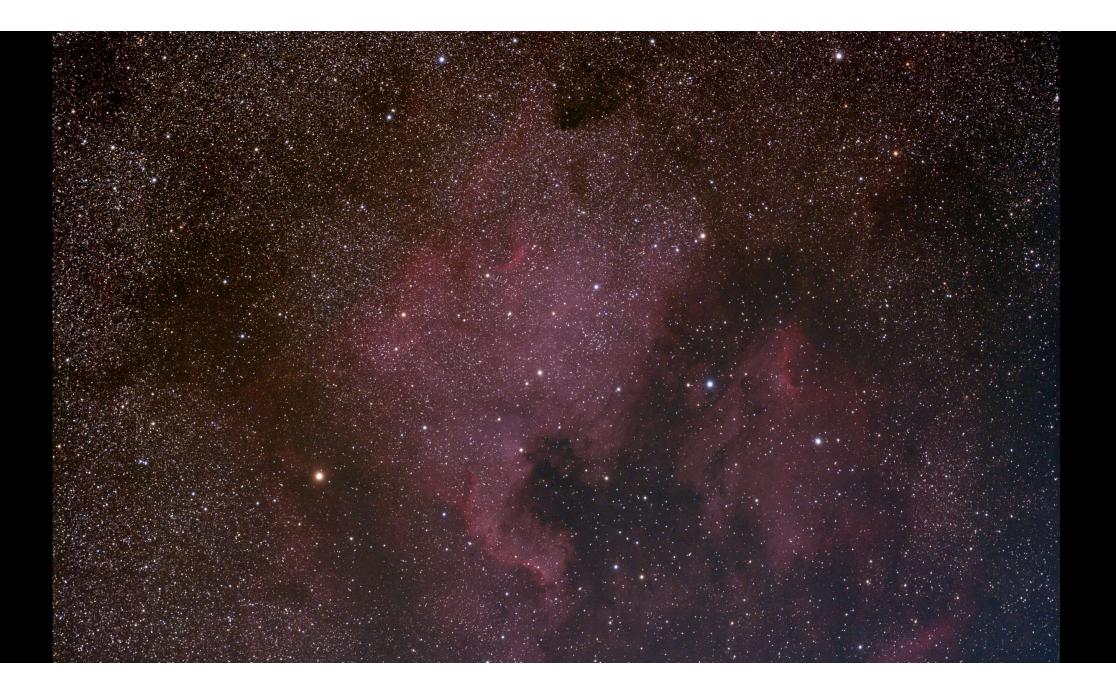


Object: 833 - Horsehead Nebula, Observer: Nick Janes Nid tine: 2020-01-20 2114120, Span: 3064s, Exposure: 60x60s Telescope: 90mn, f/5 refr., Canerat R51294HC Scale: 2,13 "/pix, FoV 147,4x100,4 arcnin, FR: 5,1 deg, Zf: 23,33 nag





Object: Rosette Nebula, NGC2237, Observer: Nick Janes Nid tine: 2020-01-20 23:29:15, Span: 3066s, Exposure: 60x60s Telescope: 90nn, f/5 refr., Camera: RS1294MC Scale: 2-13 "/aiv. FxV 147 dv100 4 arcmin. PD: 5-1 dec. ZP: 23 5



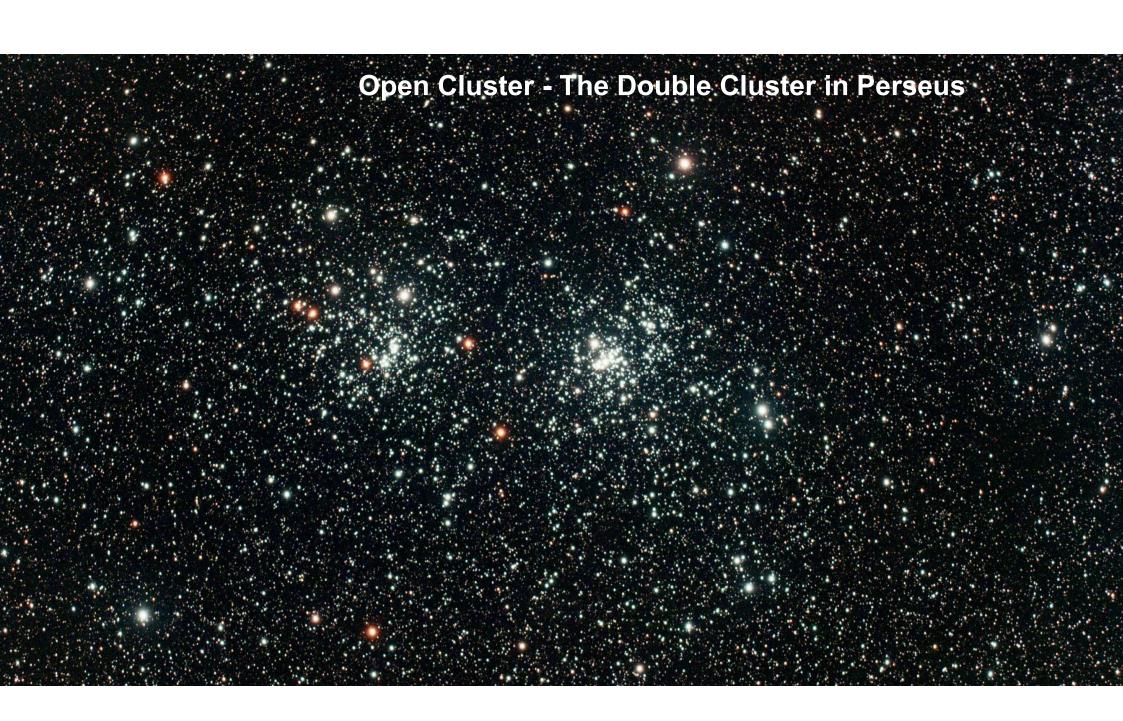


Object: M45, Observer: Nick Janes Hid tine: 2010-12-16 02:31:10, Span: 7149s, Exposure: 57x120s Telescope: 340m FL, f/44, Canera: RSI294MC Scale: 2,77 "/pix, FoV 191,1x130,2 arcnin, FR: 3,8 deg, ZP: 24,09 mag

Planetary Nebula M57 - The Ring

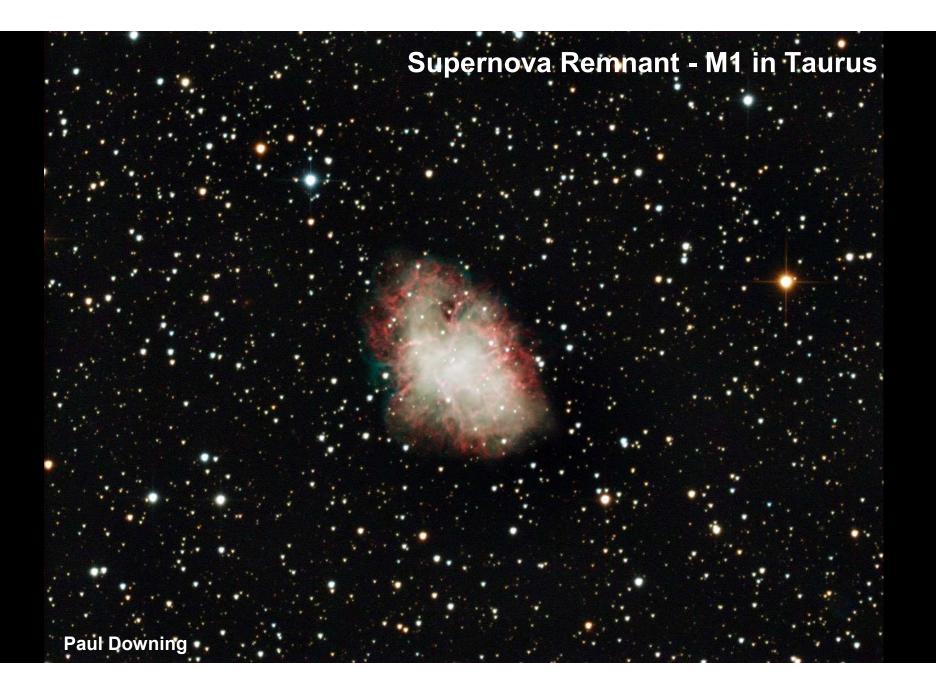


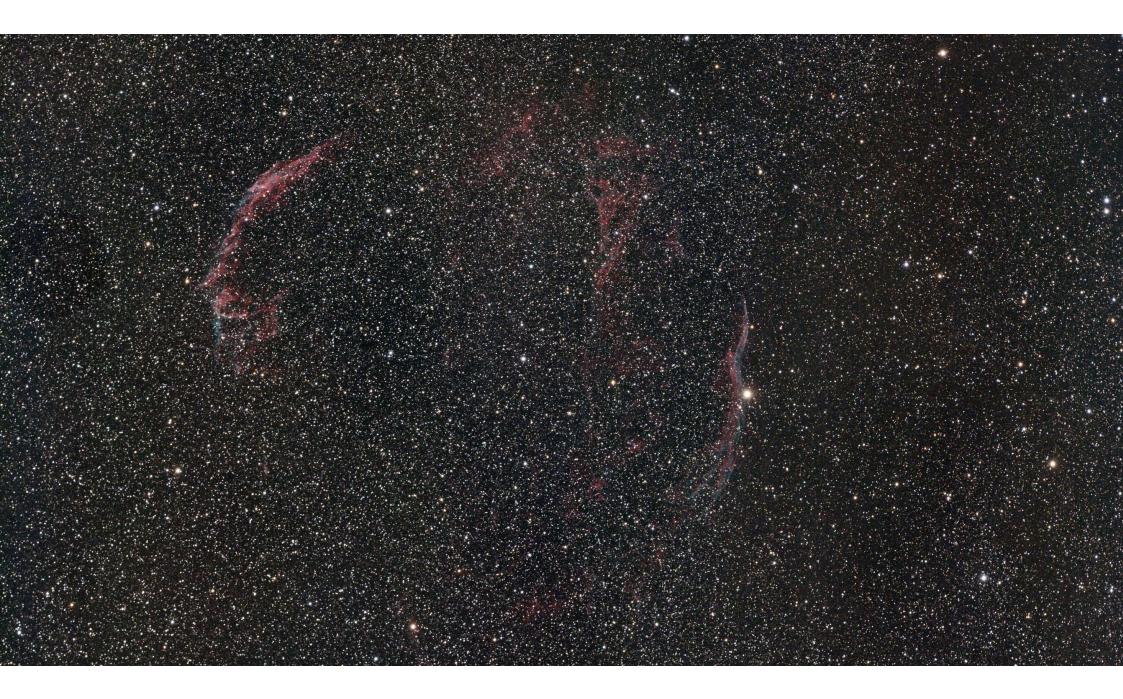
lain Cartwright

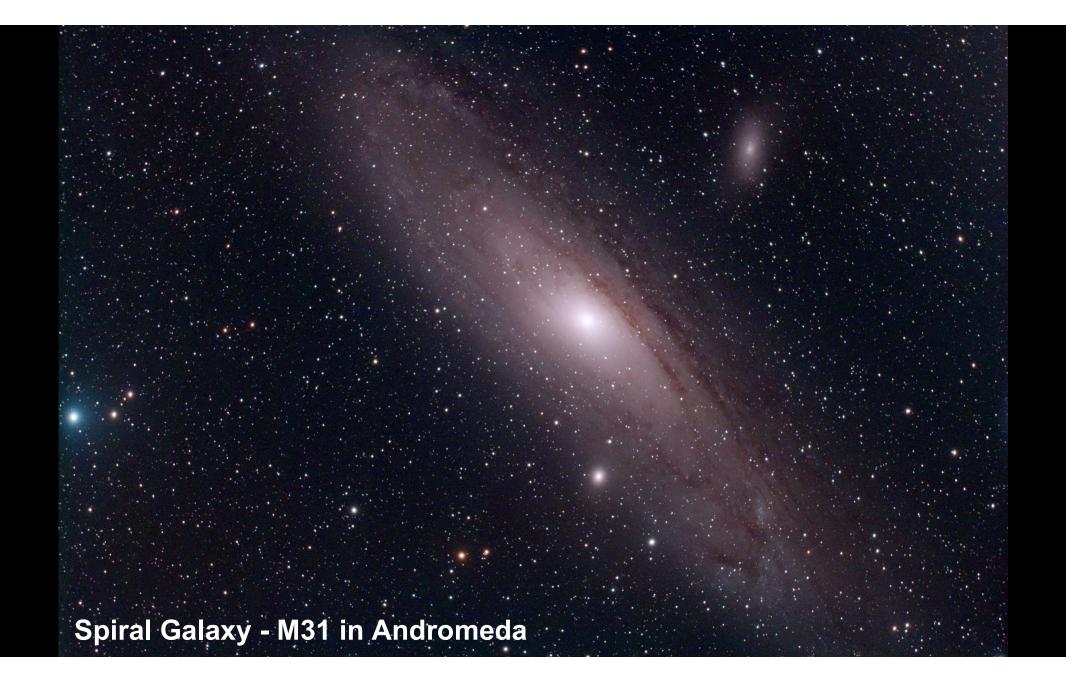


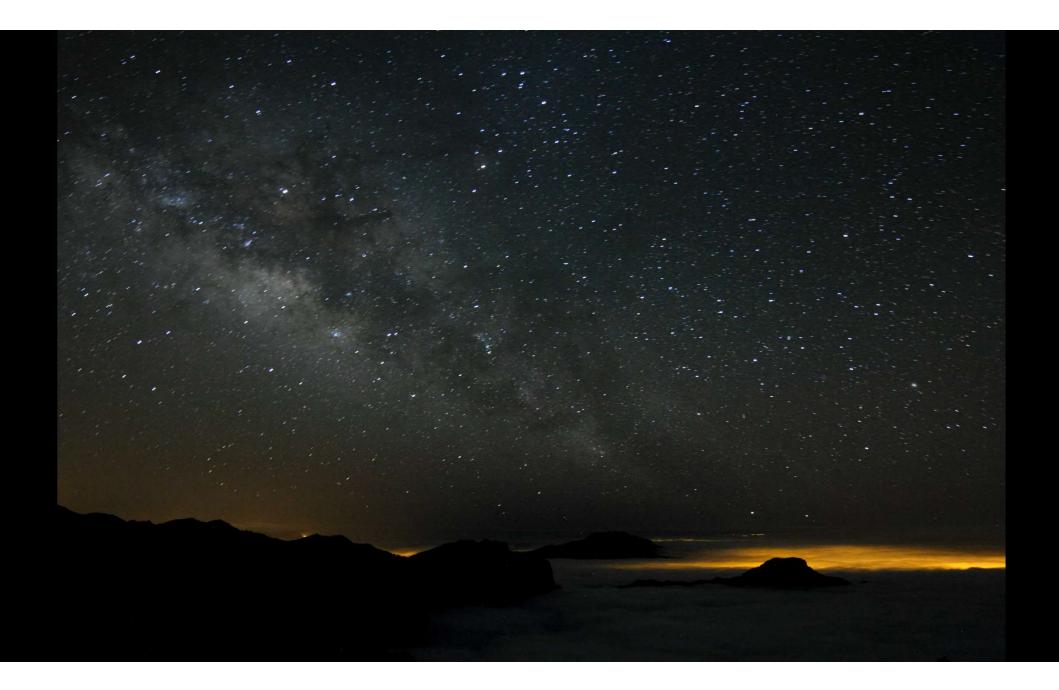


Object: M_15, Observer: Nick Janes Hid tine: 2020-09-20 20:12:33, Span: 1190s, Exposure: 18x60s Telescope: C11 Edge HD, Canera: Finger Lakes 1.211 Version N Scale: 1.29 "/pix, FoV 33.1x22.0 arcnin, PA: 0.3 deg, ZP: 25.91 nag

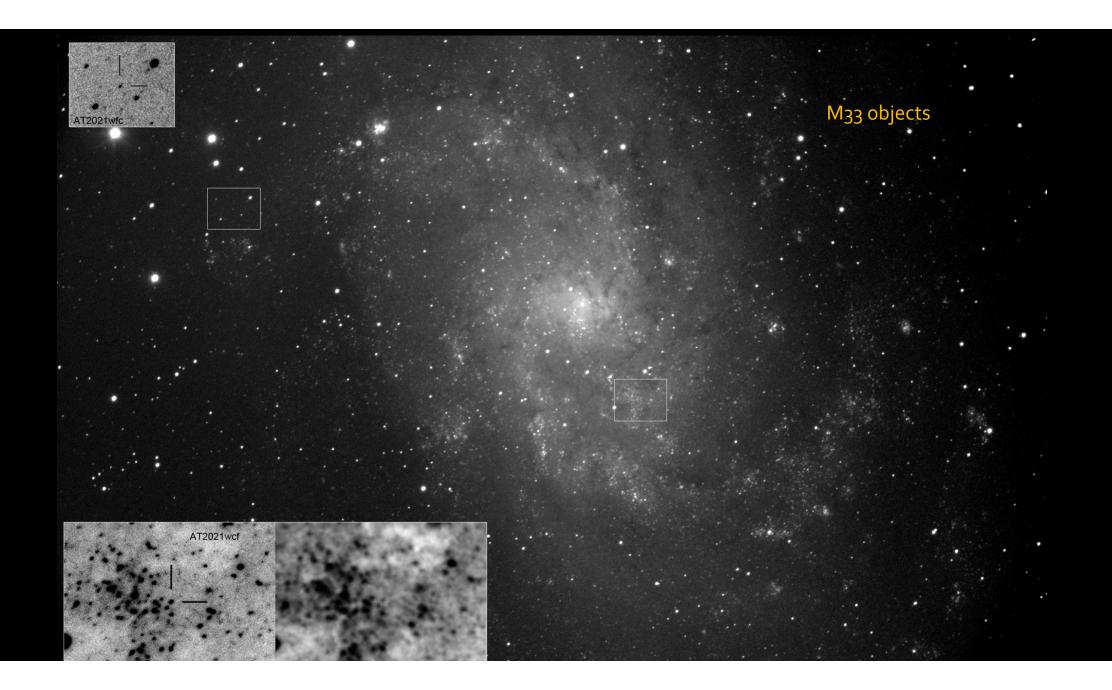


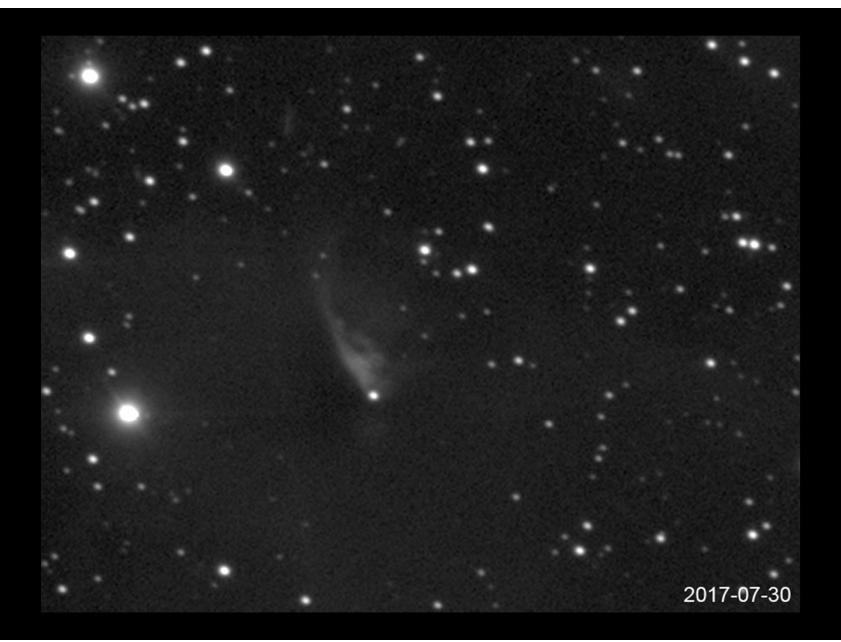


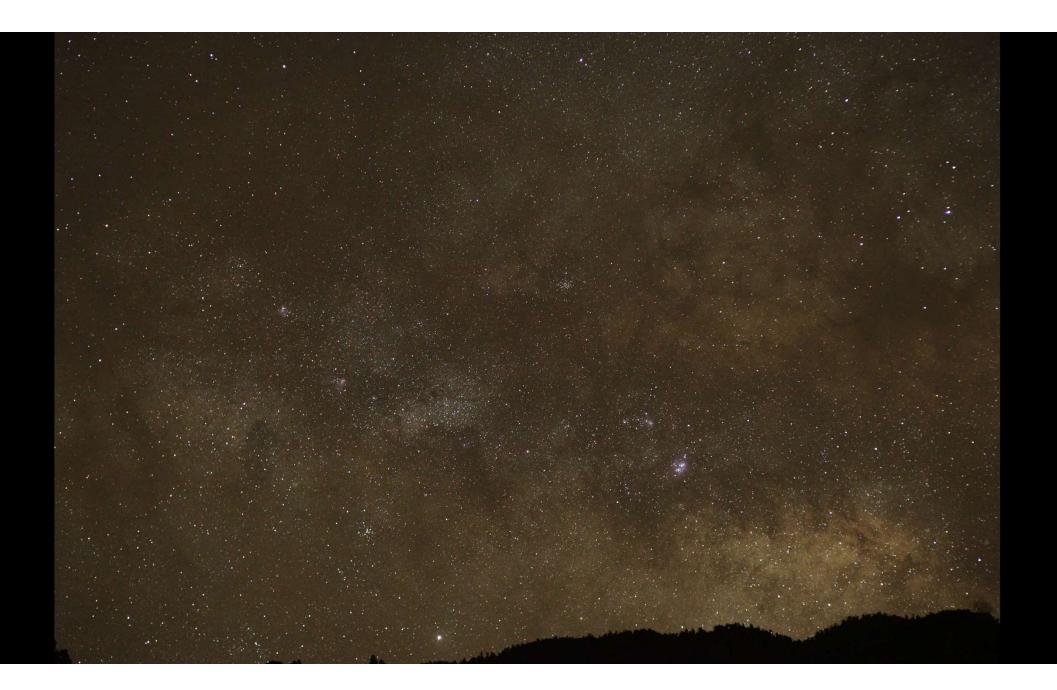








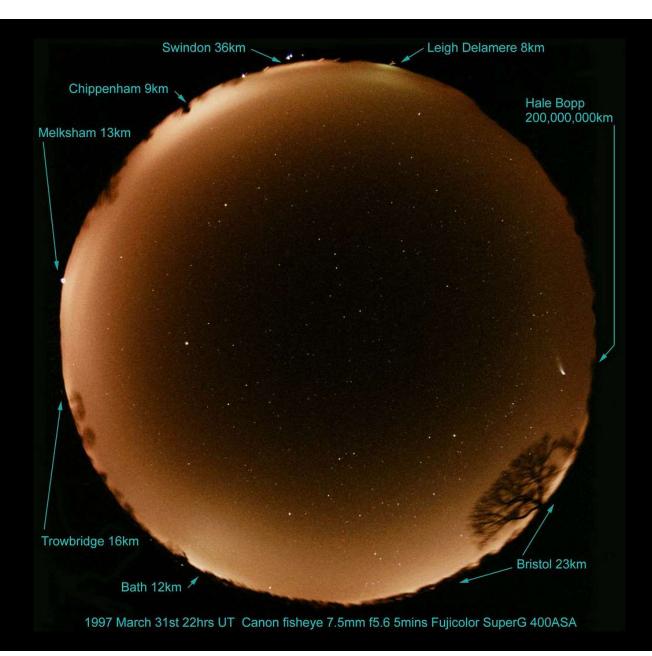




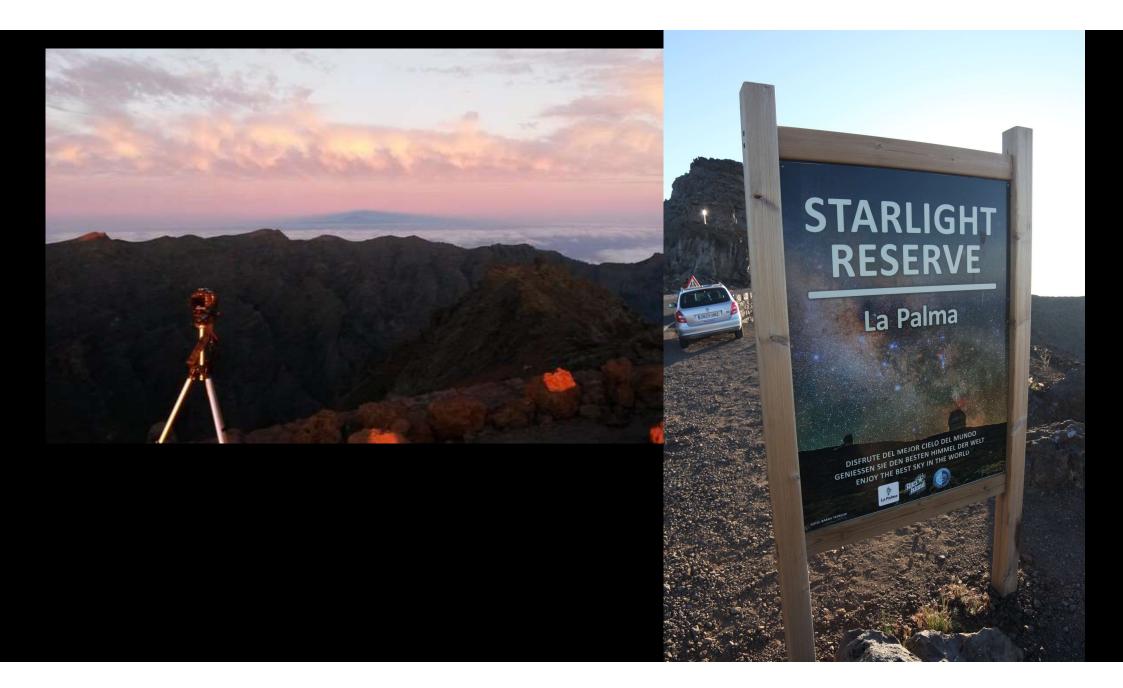
Light Pollution

Choose a dark site if possible
Avoid the Moon
Shield bright lights if there are any









Catalogues

Messier Catalogue - M numbers

- List created by Charles Messier
- Objects that are not comets!
- Many were found and known about before Messier
- Messier catalogued about 102 objects, with Pierre Mechain
- Another 8 added by later observers



Caldwell Catalogue - C Numbers

- 'Invented' by Patrick Moore
 Level of difficulty similar to Messier Catalogue
- But...
- Intended to include objects Messier might have listed.
- Covers northern and southern hemispheres equally



New General Catalogue - NGC Numbers

- Initial catalogue by William Herschel (1786)
 Systematic sweeps of the sk
 NGC created by Draper (1888)
 Index Catalogue (IC followec
 - on)

