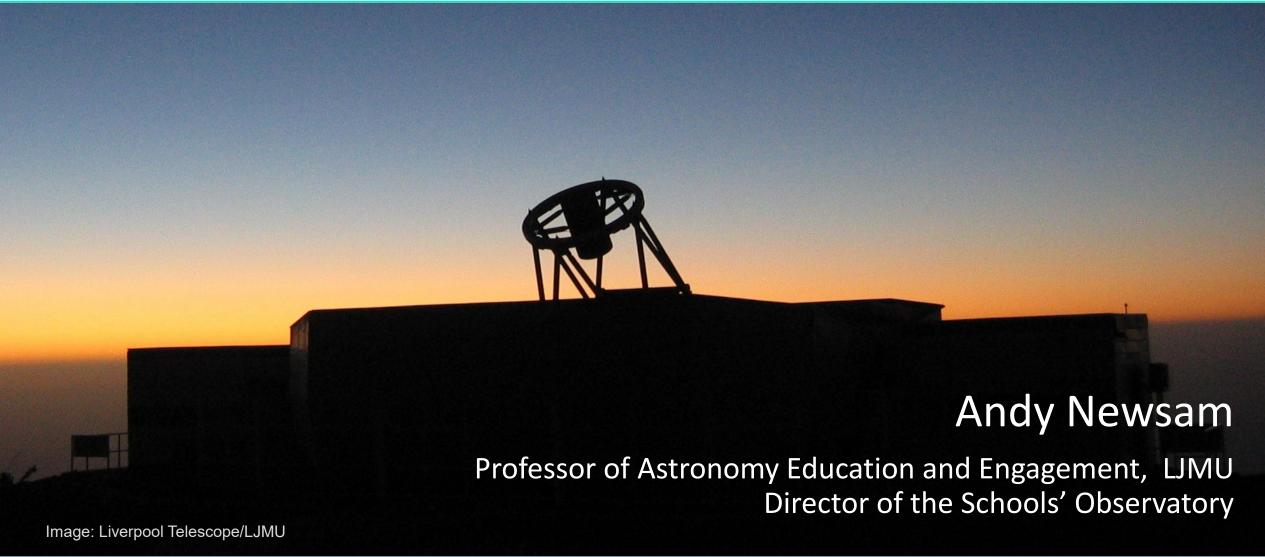
Try this at Home







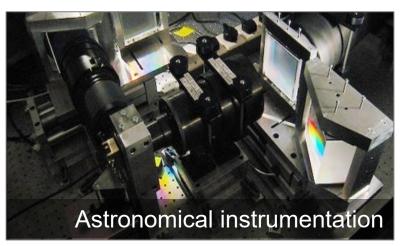
Astronomy research in Liverpool

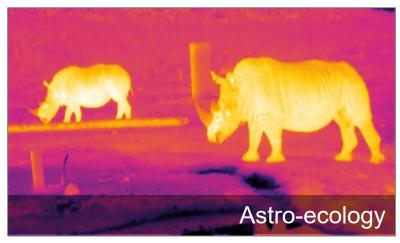
















Astrophysics Research Institute

Formed in 1992

Now 100+ people

Combines:

- Research
- Teaching
- Technology
- Education and Engagement







The Liverpool Telescope







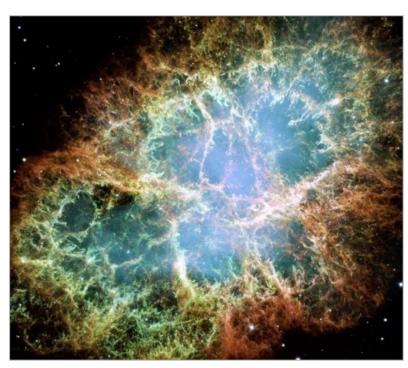
Location: La Palma

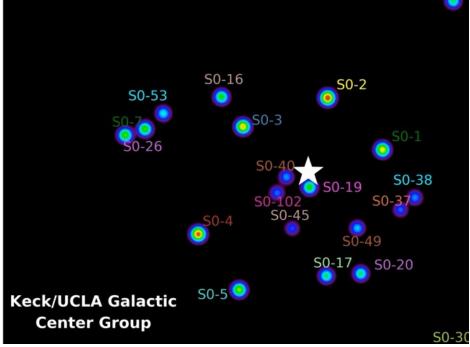


Time-Domain Astrophysics

Everything changes...

... but we often don't understand how or why.







HST/STSci/NASA/ESA

Keck/UCLA

A. Hardy/STFC





How does it work?

Observing Programmes collected by the Telescope Management Centre

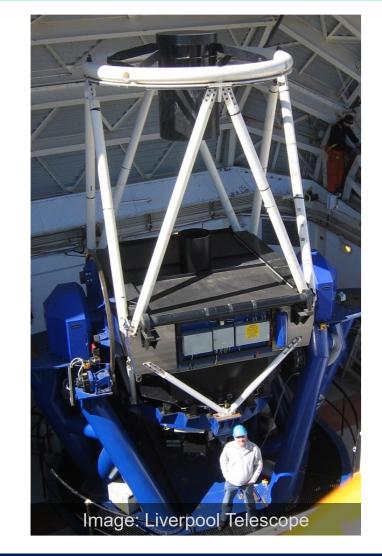
Sent to La Palma

Everyone goes to bed!

Telescope creates and carries out optimal observing strategy

We wake up and analyse the results









Explosive Science: Gamma-Ray Bursts

GRBs are the brightest explosions in the universe – even when billions of light years away, could be visible to the eye...

Some are probably explosions of very massive stars, others collisions of two neutron stars.

GRB observed by LT on 9th October 2022 brightest GRB ever detected.

Around 2 billion light years away.

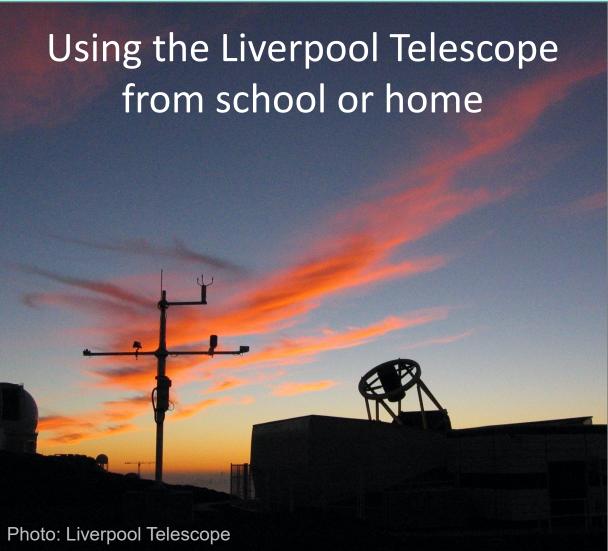


Artist's impression of bright GRB 221009A. Image © 2023 Soheb Mandhai, University of Manchester.





The Schools' Observatory







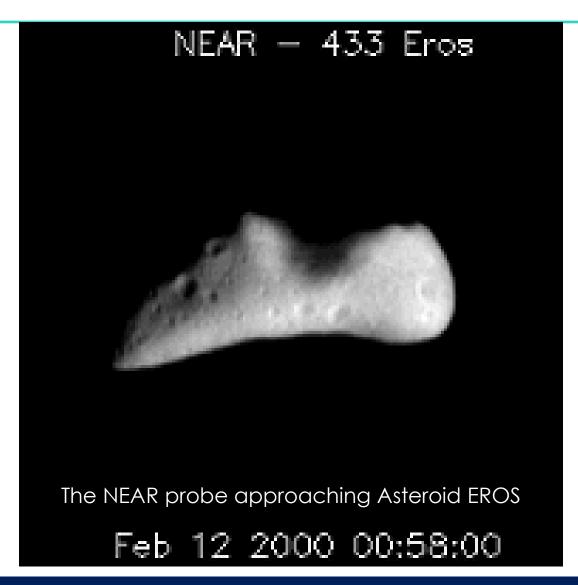


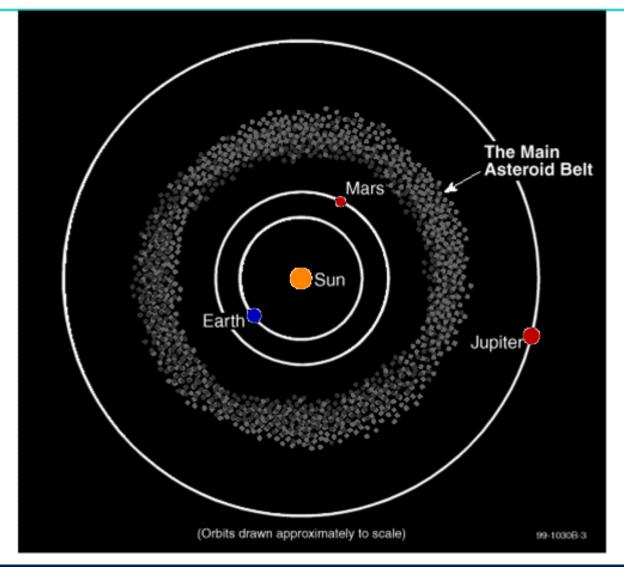






Asteroids

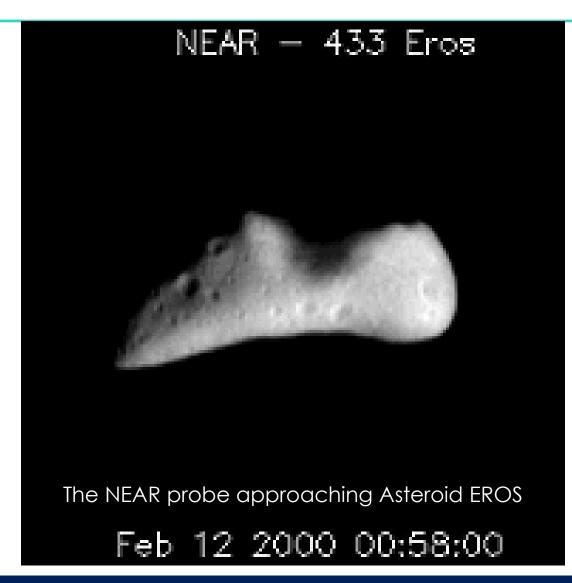


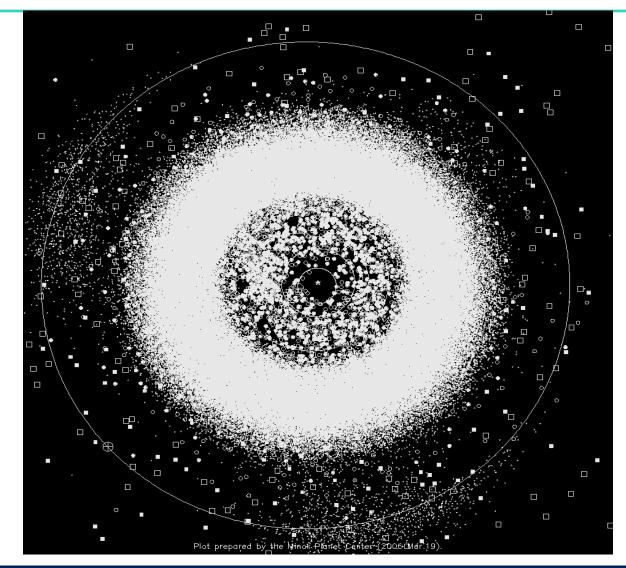






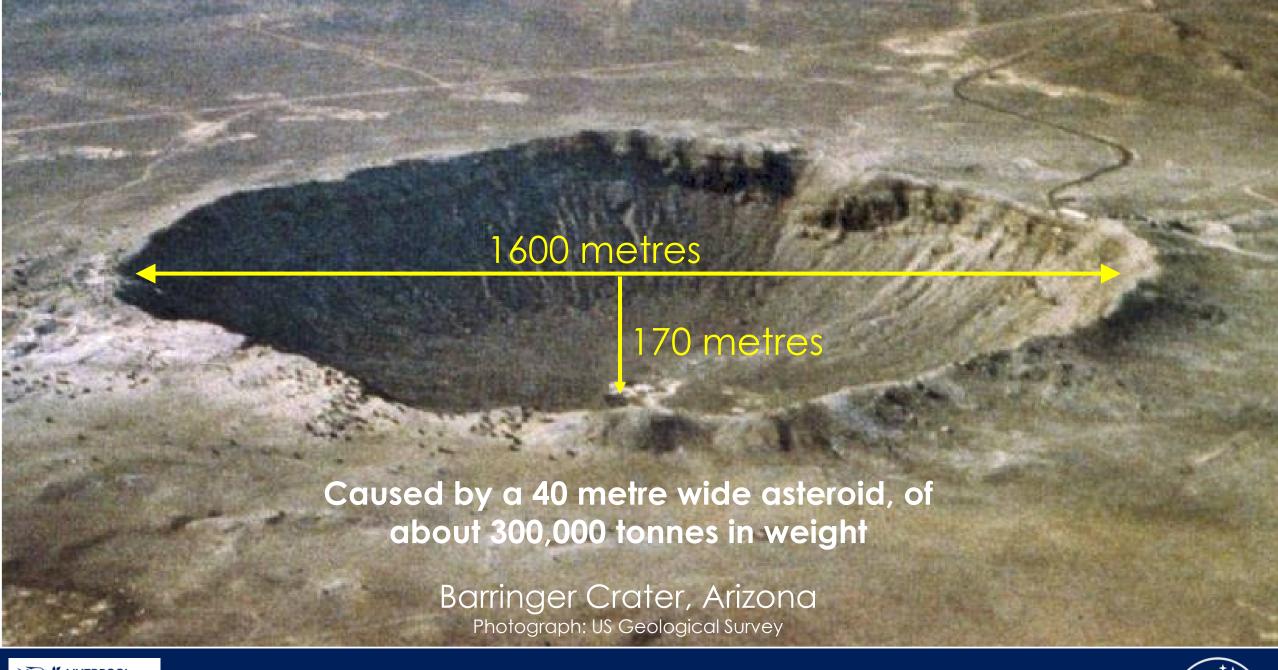
Asteroids





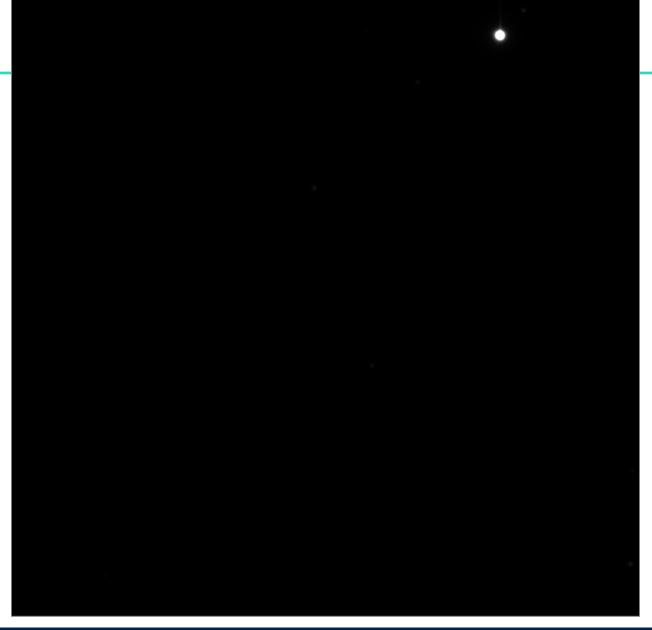












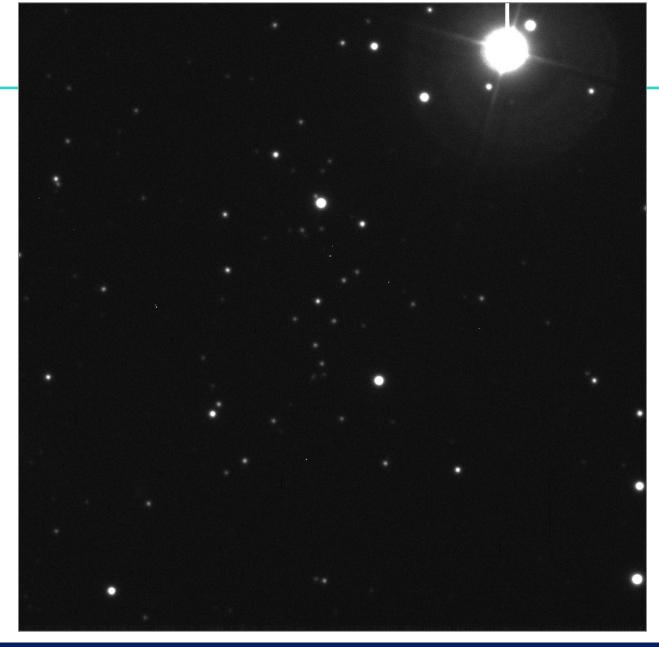






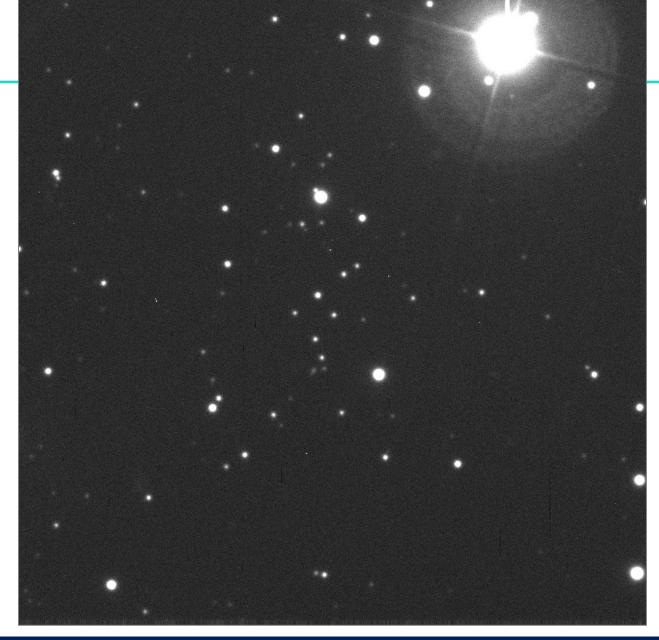






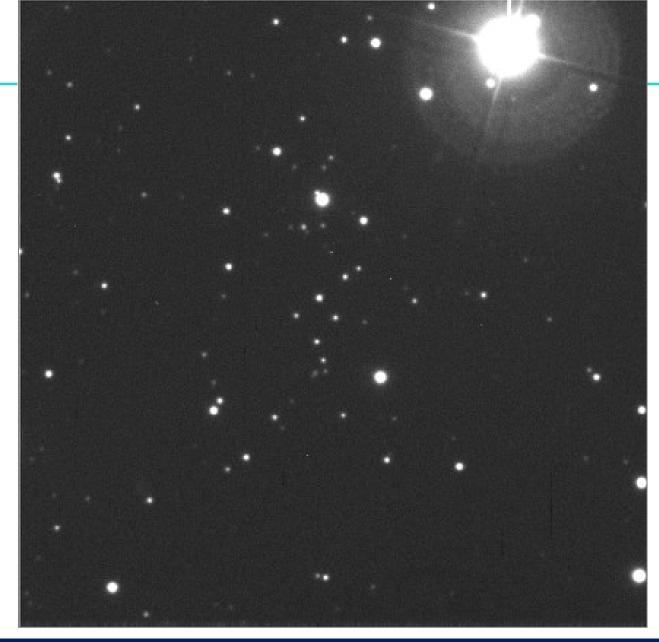
















Human-made "asteroids"?

JWST observed by LT in January 2022 on the way to its final orbit

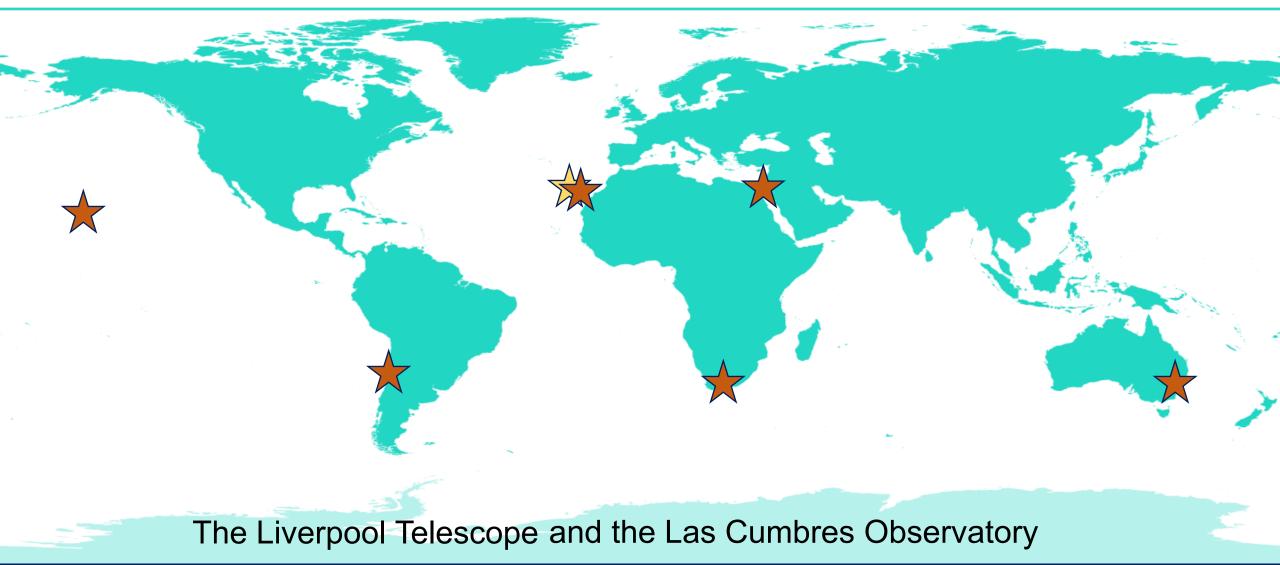


Credit: LJMU/LT/J. Marchant





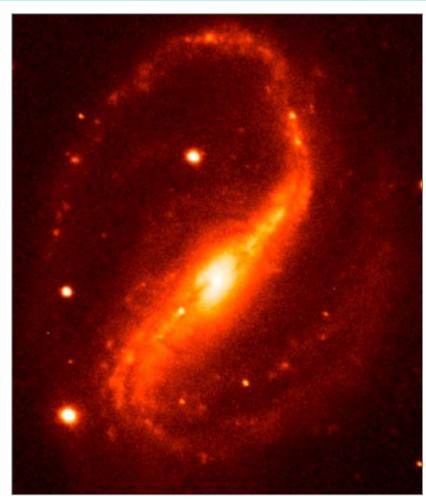
Anytime, Anywhere







Open to Explore and Play



Spiral Galaxy NGC 7479



Saturn

Free to all

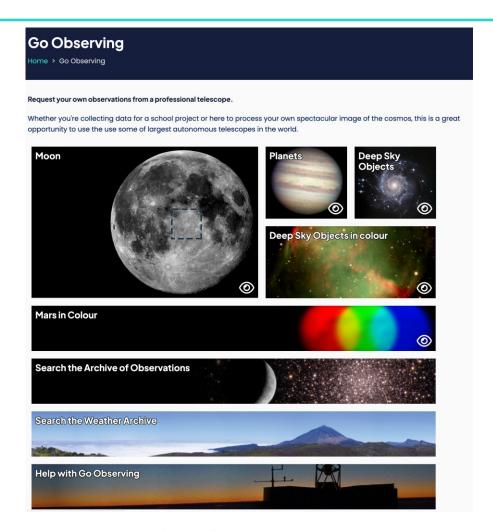
(LJMU and Dill Faulkes Education Trust Funded)

Extra features for UK and Irish schools





Easy to use on any device



ASTROLAB STELLAR: 333341000.FITS THE SCHOOLS' **OBSERVATORY** Astro @ Help 다 Display Colour Greys Heat Cool Forest Rainbow **Pastels** Sunrise Bands Stripes Your Colours 1 Your Colours 2 Your Colours 3 Reverse the Colours Guidance False colours make it easier to see details in an image. You can also use this tool to get creative with how your image looks! 14503 17856 19525 16171 21193 22878 PROUD TO BE PART OF LIVERPOOL JOHN MOORES UNIVERSITY

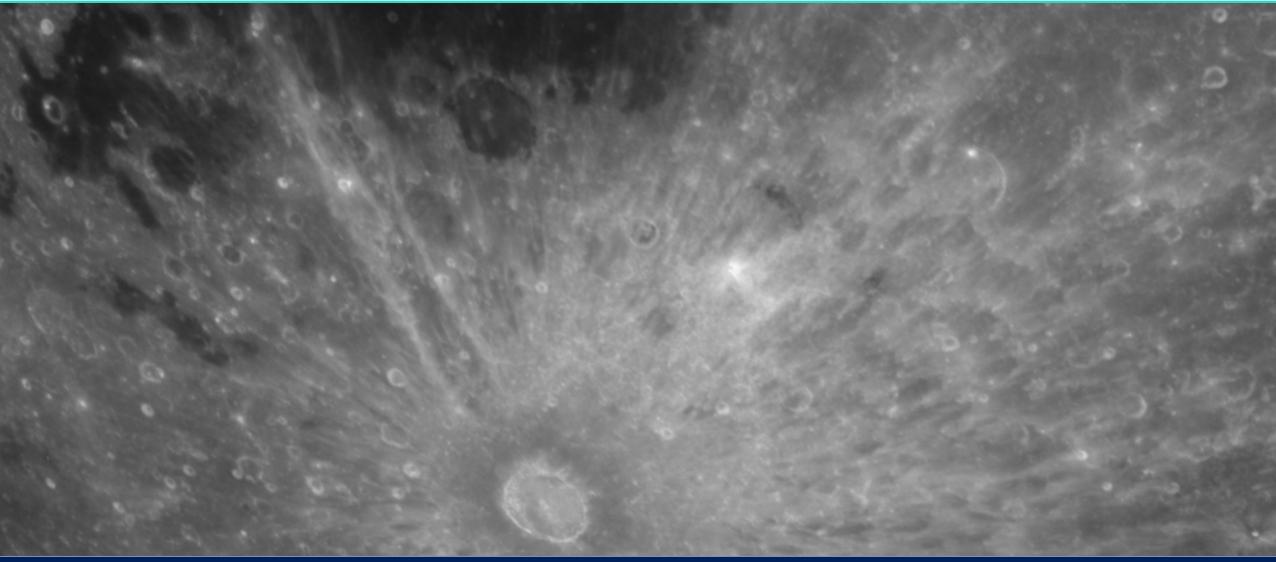
"Go Observing"

"AstroLab"





From near...







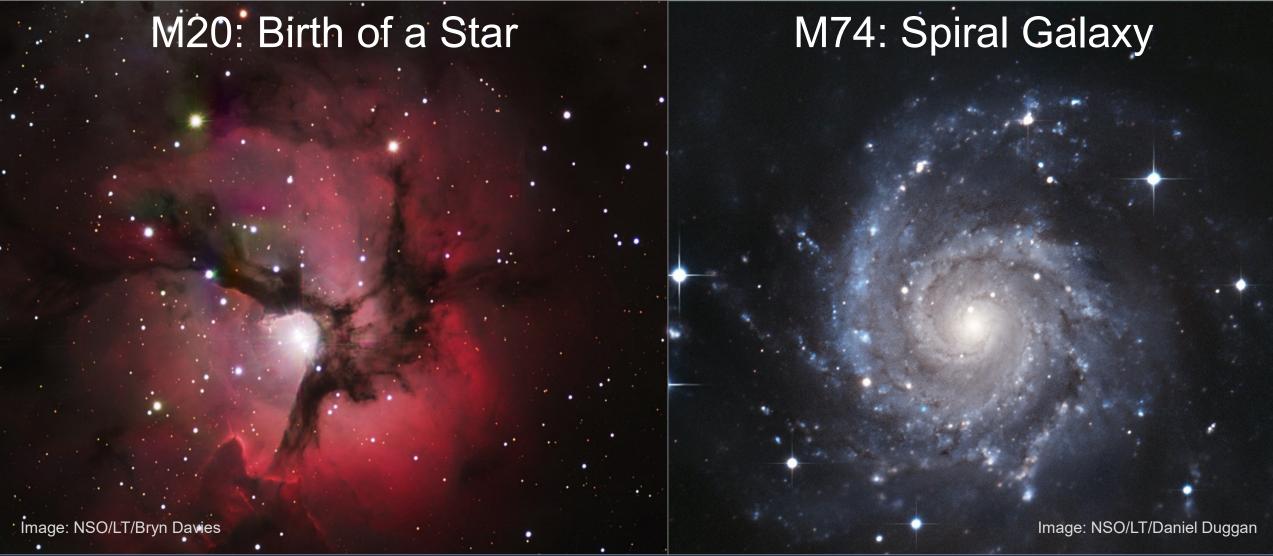
From near...







...to far







Start Exploring!







Thank you!

The amazing Schools' Observatory team













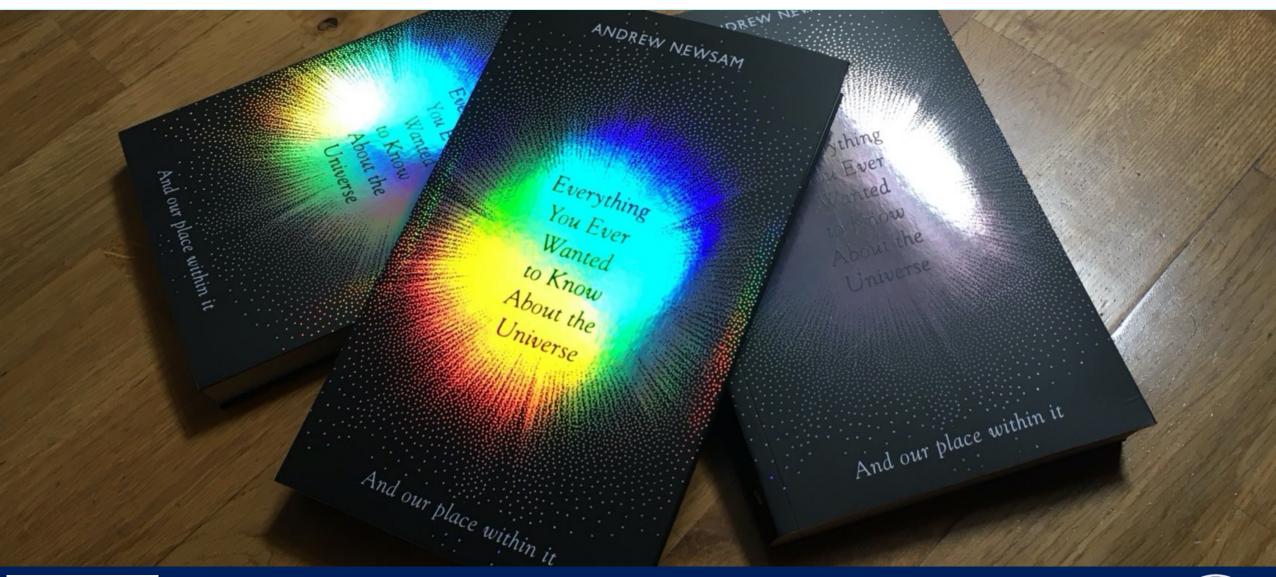








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