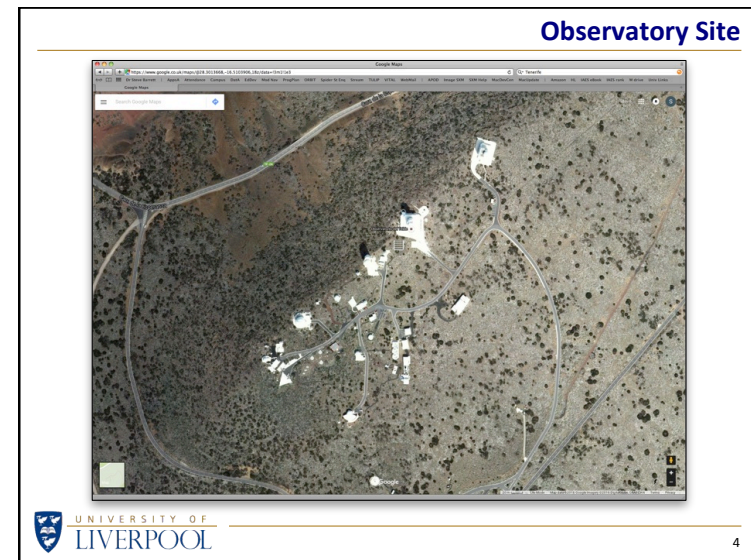
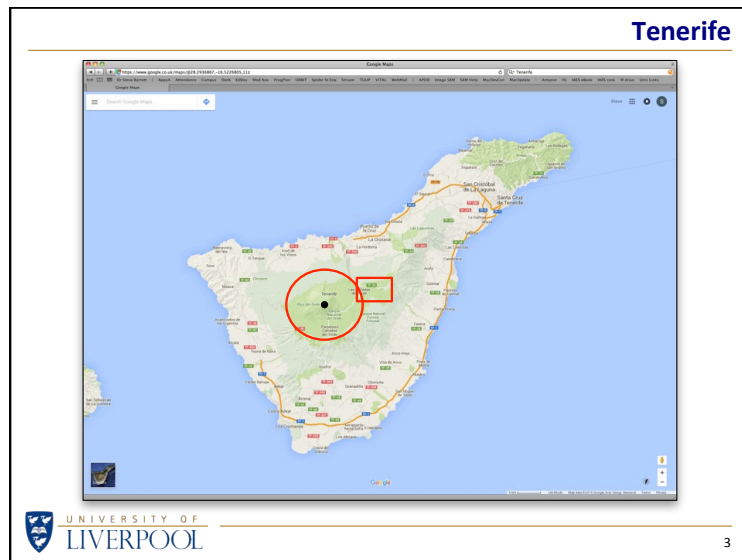
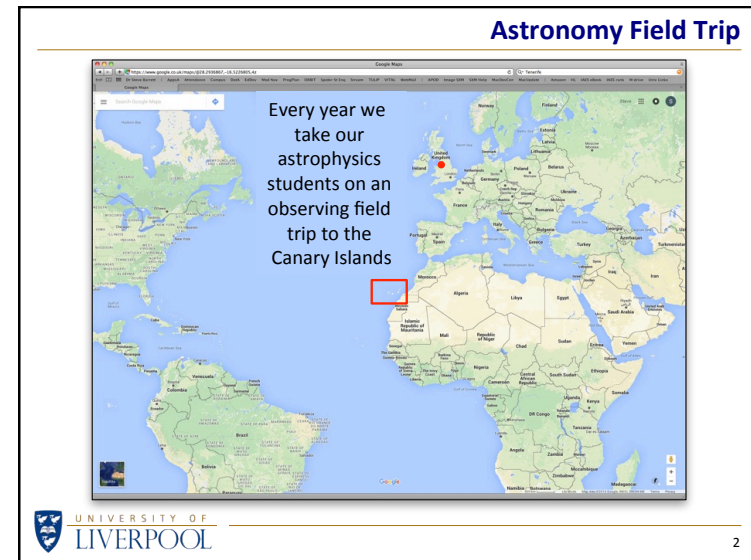
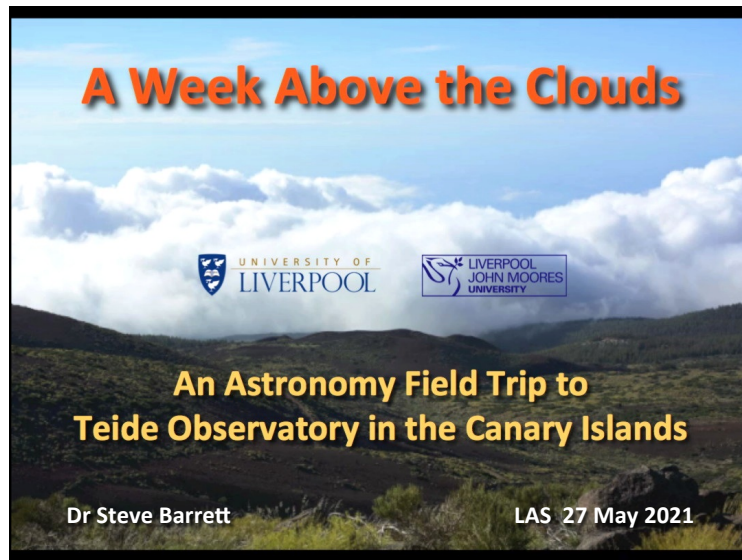


A Week Above the Clouds



A Week Above the Clouds

Mount Teide



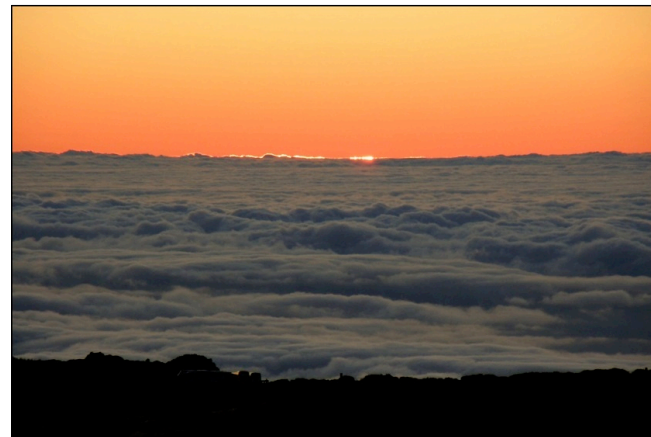
Teide Observatory



Teide Observatory

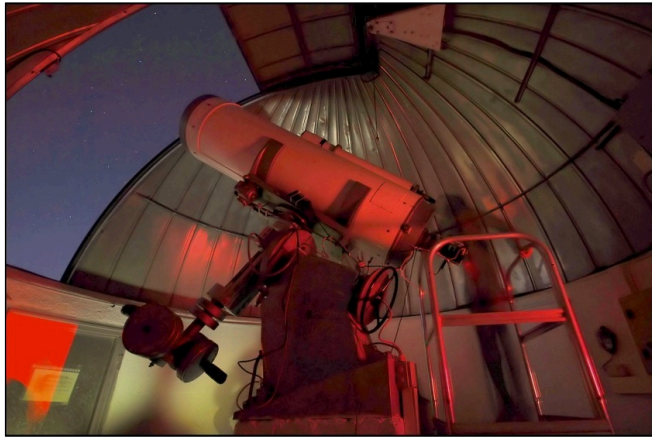


Sunset



A Week Above the Clouds

Mons Telescope



Mons Telescope



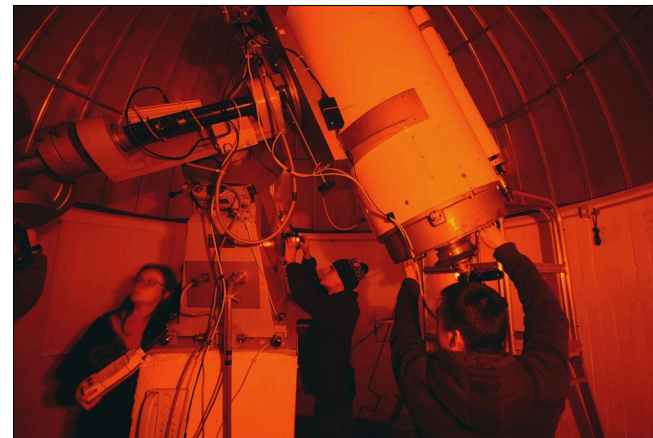
20" ex-research
telescope

Moved from its
original home at
Mons University,
it is now used for
teaching

Students At Work



Students At Work



A Week Above the Clouds

In the Warm Room



What Do the Students Observe?

The students are expected to calculate the coordinates of the objects that they want to observe and then point the Mons telescope, using setting circles, to an accuracy of a few arc-min.

Working in teams of 3 or 4, the students decide on what type of objects they want to study during the week. Examples are:

Star Clusters: Measuring star intensities with different colour filters to generate Hertzsprung-Russell diagrams

Planetary Nebulae: Revealing the nebulae structure visible with hydrogen ($H\alpha$) or oxygen (O-III) filters

Galaxies: Identifying star formation regions in spiral galaxies using a hydrogen ($H\alpha$) filter

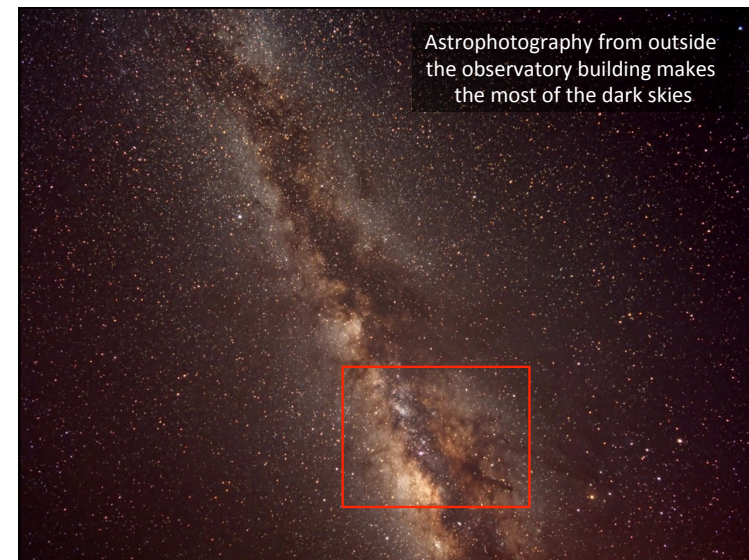
Astrophotography

Milky Way in Sagittarius and Scorpius

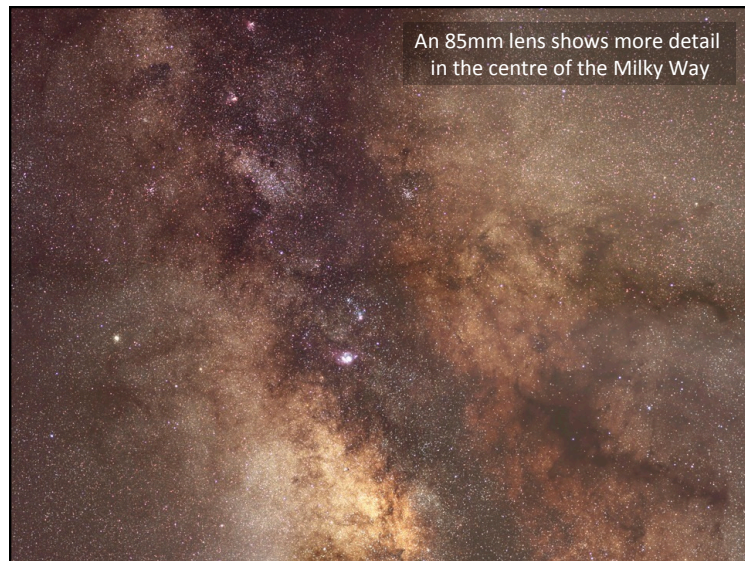


A mosaic of four images, each a 4-minute exposure
Taken with a Nikon D7100 DSLR + 85mm f/1.8 lens
Processed from JPEGs with no darks and no flats

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A Week Above the Clouds



A Week Above the Clouds

Liverpool Telescope



The Liverpool Telescope is on the neighbouring island of La Palma

A research class telescope with a 2 m mirror that can be used for 20% of the time by students and schools around the world

The Best Laid Plans...



The Best Laid Plans...



A Week Above the Clouds

www.liverpool.ac.uk/~sdb/Talks

Dr Steve Barrett

LAS 27 May 2021