

LBTO and the ARTN

C. Veillet – LBTO Director

CFHT first fully
remotely operated
telescope on
Maunakea

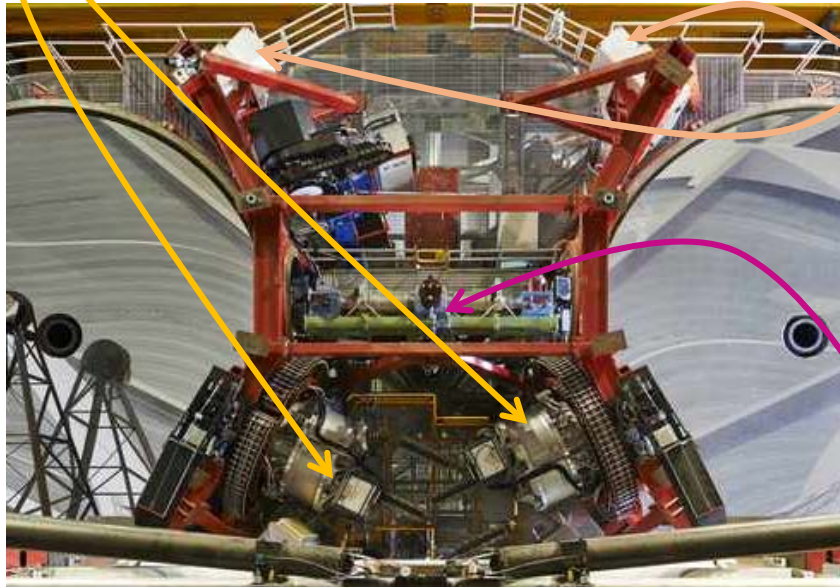
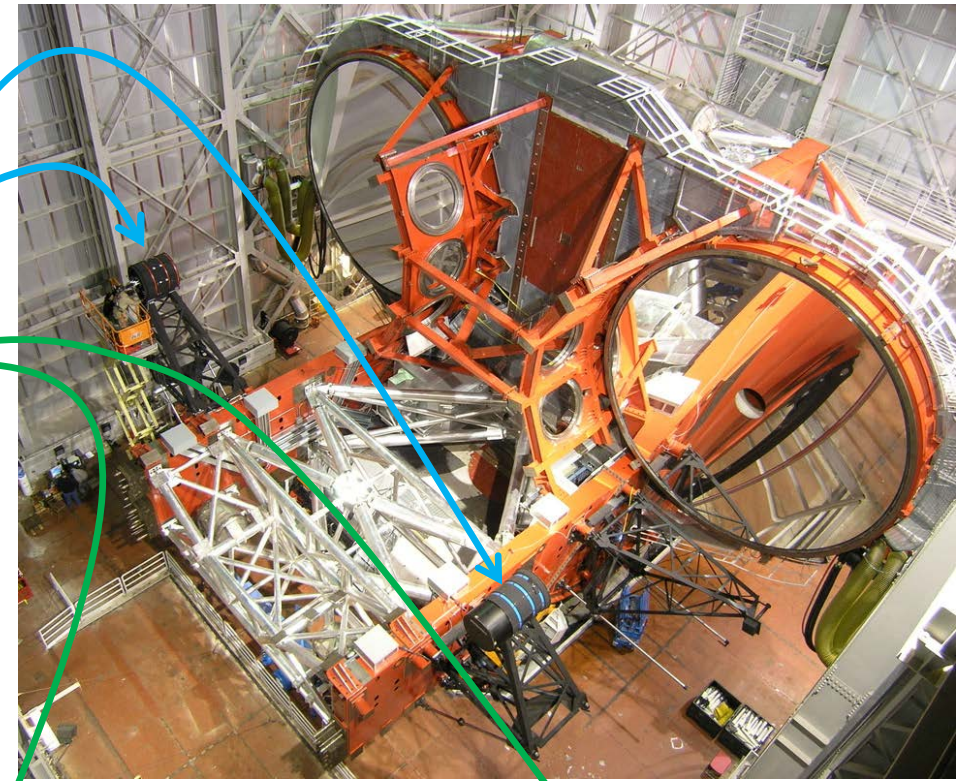


February 28 – March 3, 2011
Waikoloa Beach Marriott, Hawai'i

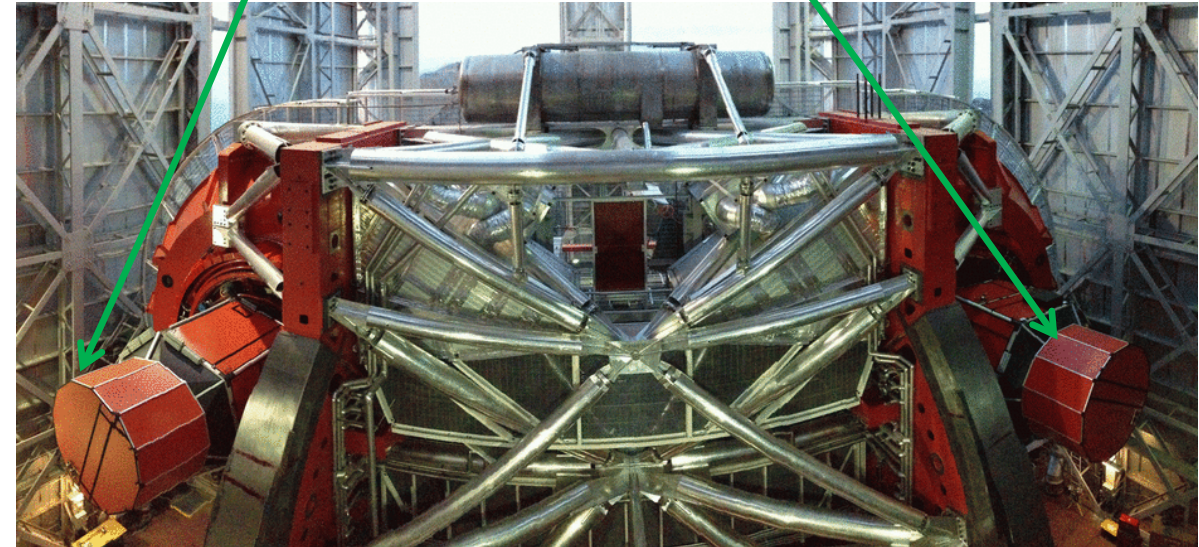
Remote observing
at LBTO (N507)



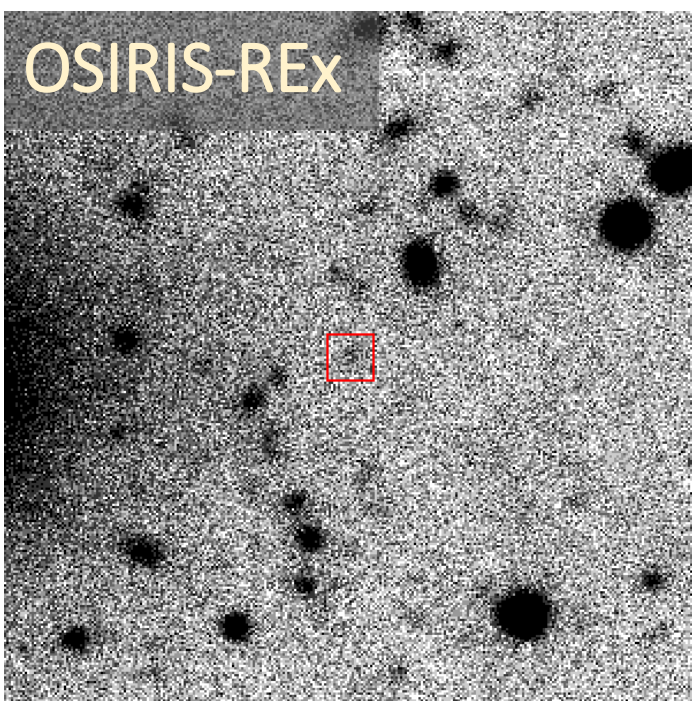
- Two 8.4m main mirrors on the same mount
- Three pairs of “facility instruments”
 - LBCs (wide-field CCD mosaic 23'x26' - 0.226"/pix)
 - MODS (R~500 to 2000 spectroscopy over 0.32-1.05 μm - 6' x 6' FOV - long slit and MOS)
 - LUCI (imaging & spectroscopy - 0.89 μm to 2.4 μm - 4'x4' FOV - 500 < R < 12,000 - long slit and MOS)
 - LUCI AO (30"x30" FOV and up to R \approx 30,000)



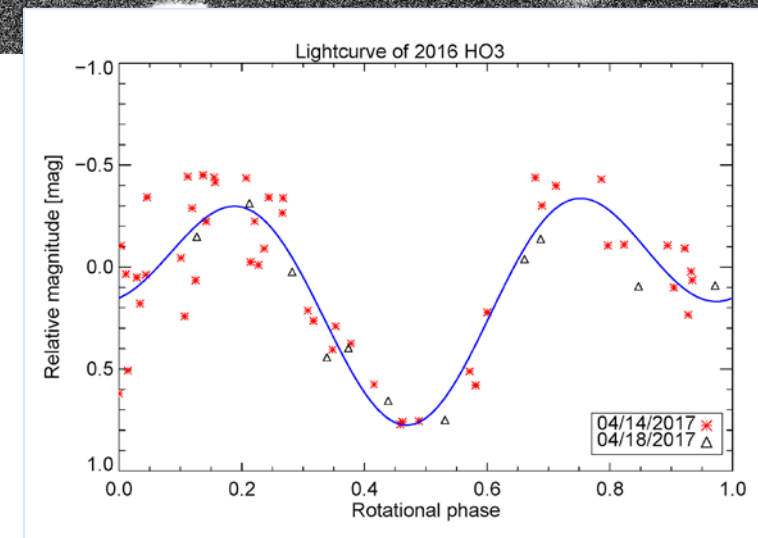
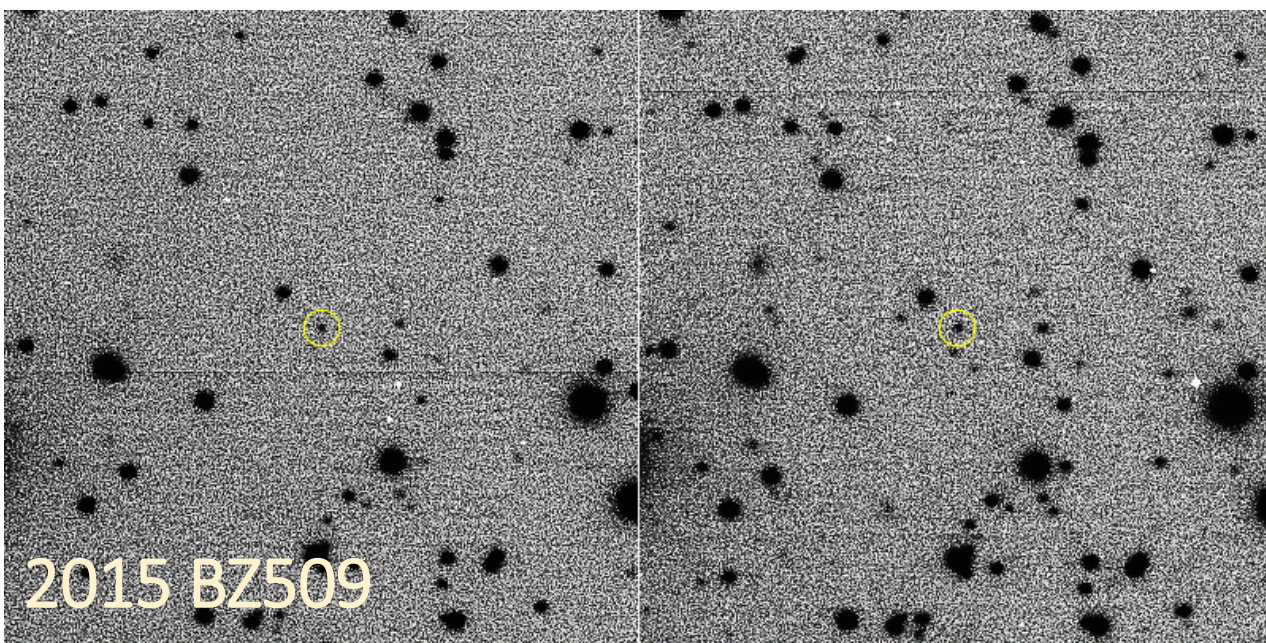
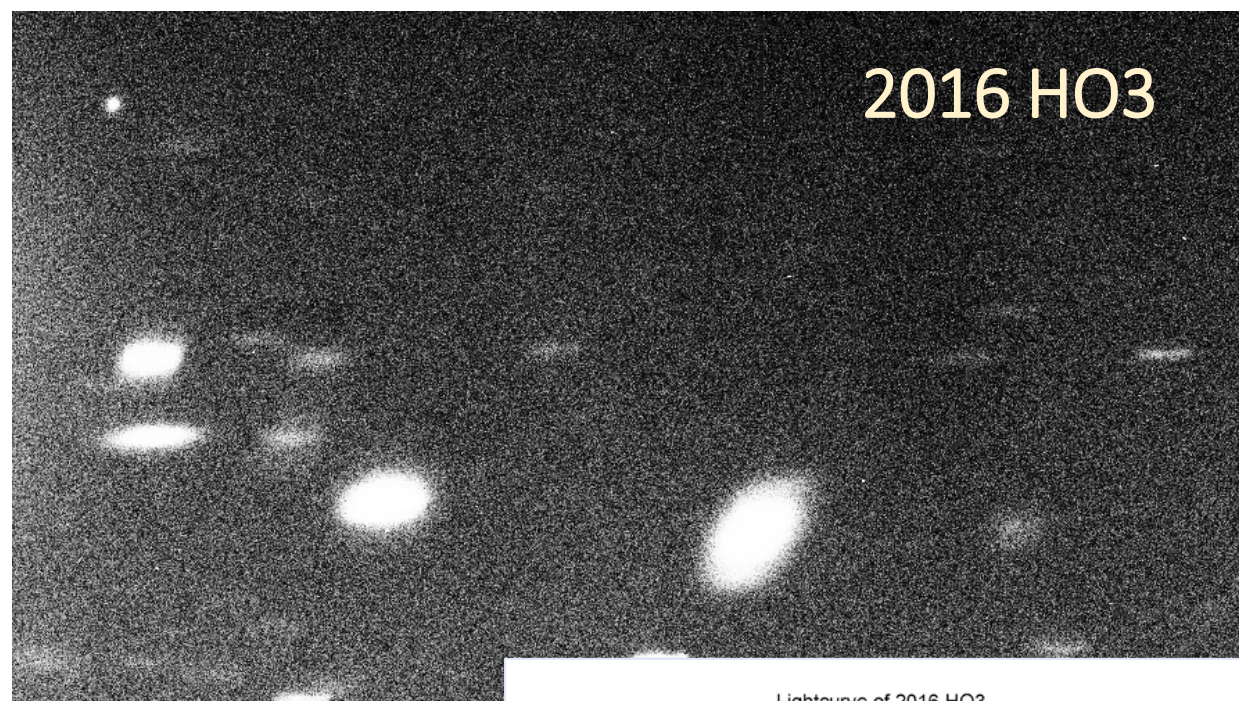
- PEPSI
(spectrograph
383 to 907nm
R up to 270,000)

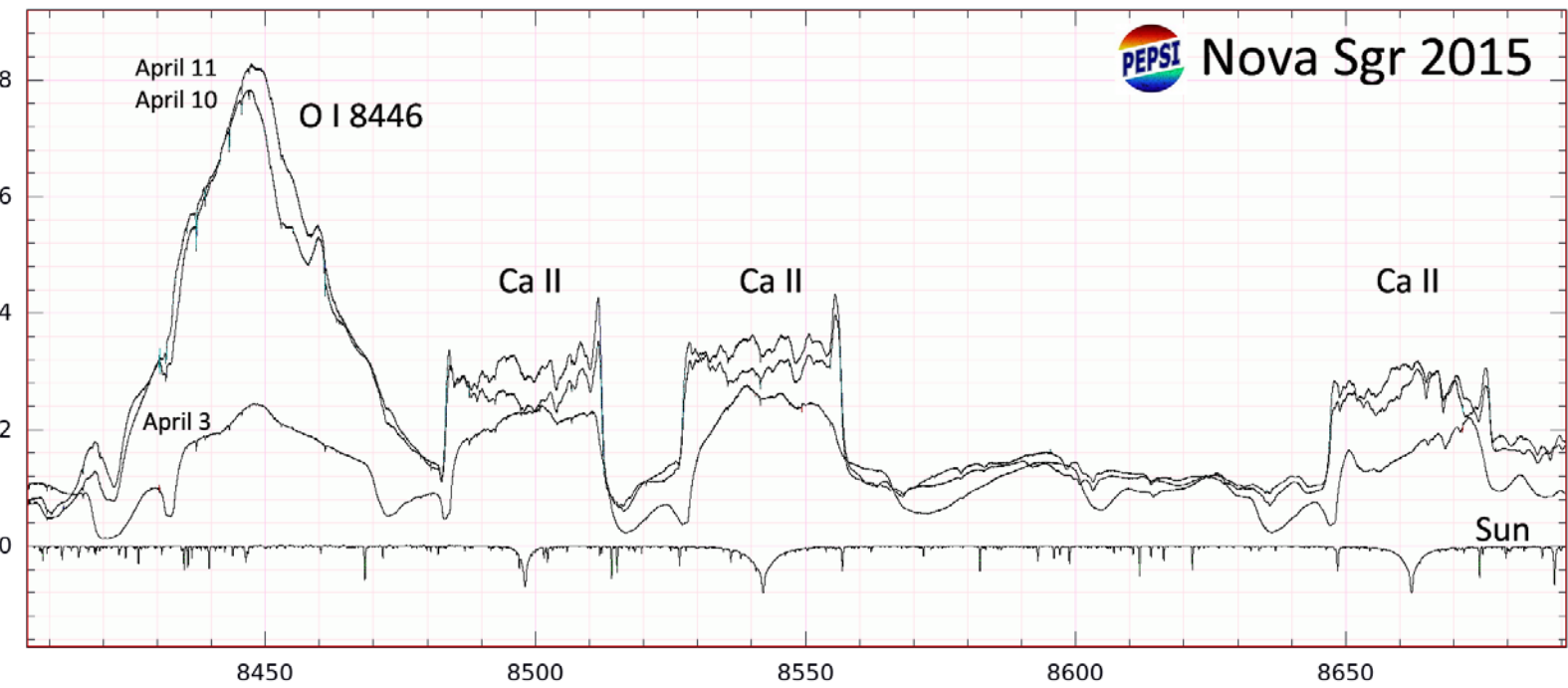
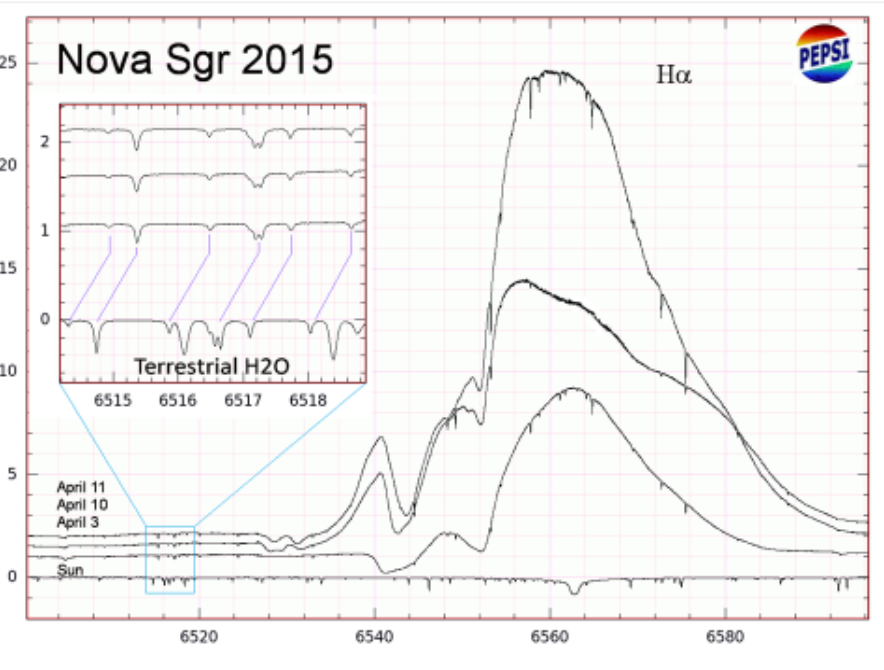
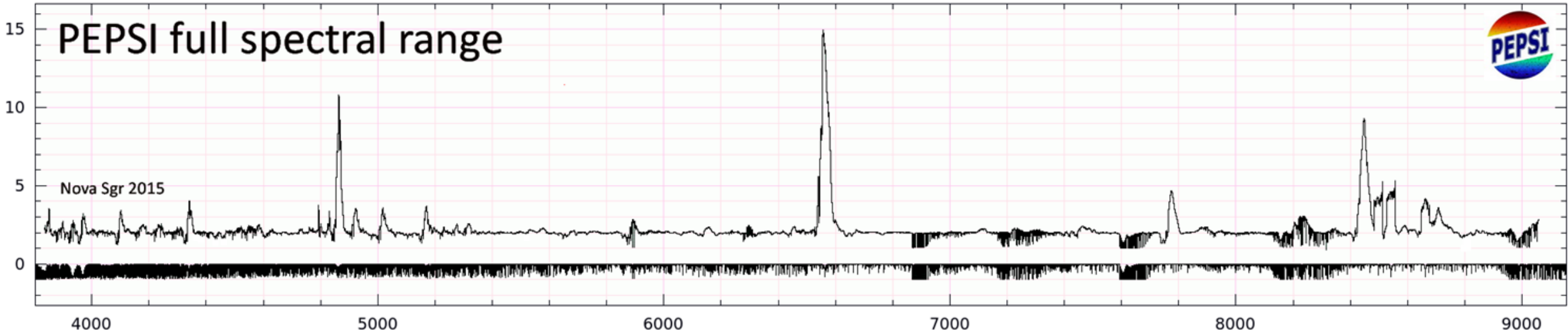


- Imaging in L-M (LMIRcam) and 10 μm (NOMIC)

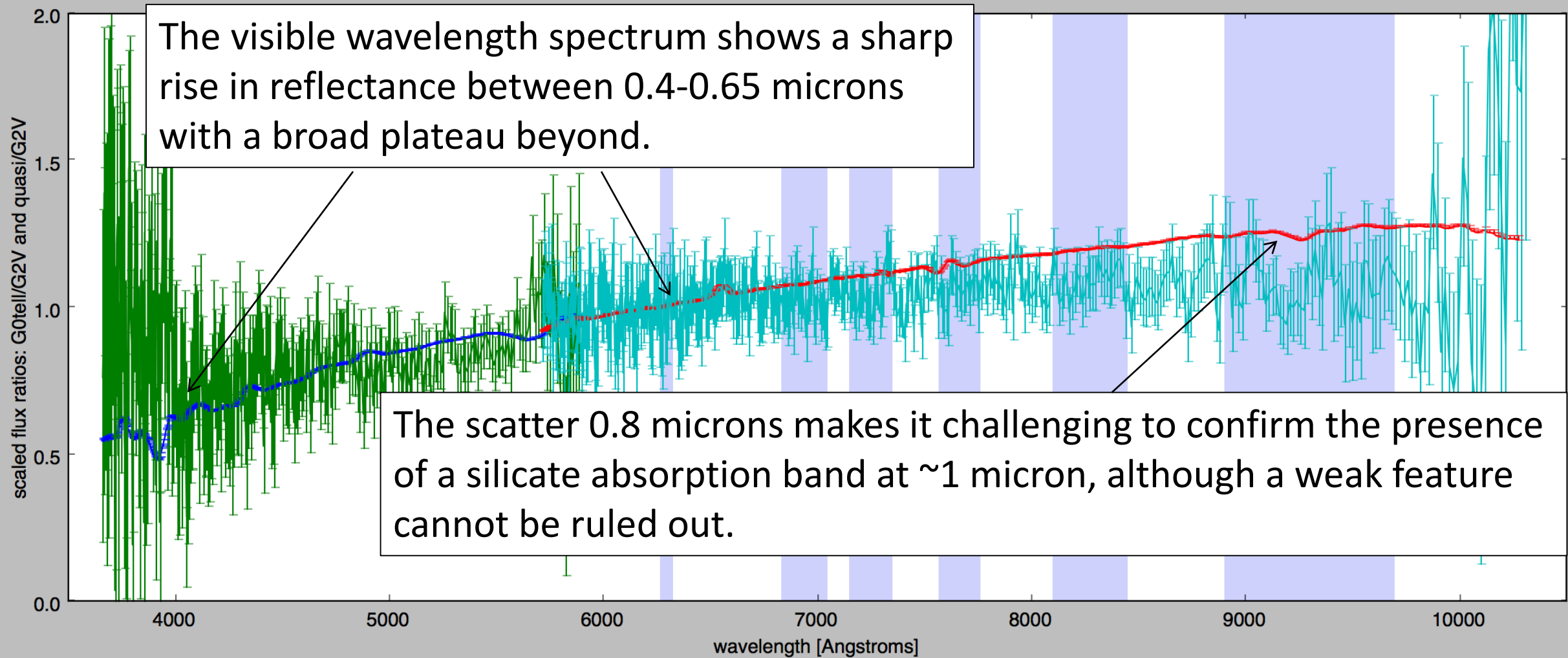


LBC





MODS spectra



If real, the silicate could be pyroxene (??)

Why to use LBTO?

- When a large telescope is needed (binocular use $\sim 11.9\text{m}$ telescope).
- When a unique capability is needed (i.e. PEPSI, L-band imaging, 2-color simultaneous photometry, ...)
- ...

Note:

- LBTO is not scheduled in queue-mode yet.
- The change from one instrument to another is possible but takes time (10 to 30mn).
- There is no event alert watchdog and automated telescope response yet.

How to use LBTO?

- A pre-allocated TOO program through TAC (UA has a 25% share of LBT).
- A request for Director's Discretionary Time.
- A collaboration with LBTO science staff and using D-time.
- A collaboration with colleagues from other LBTO partners.

