SOFIA Science Highlights

Erick Young

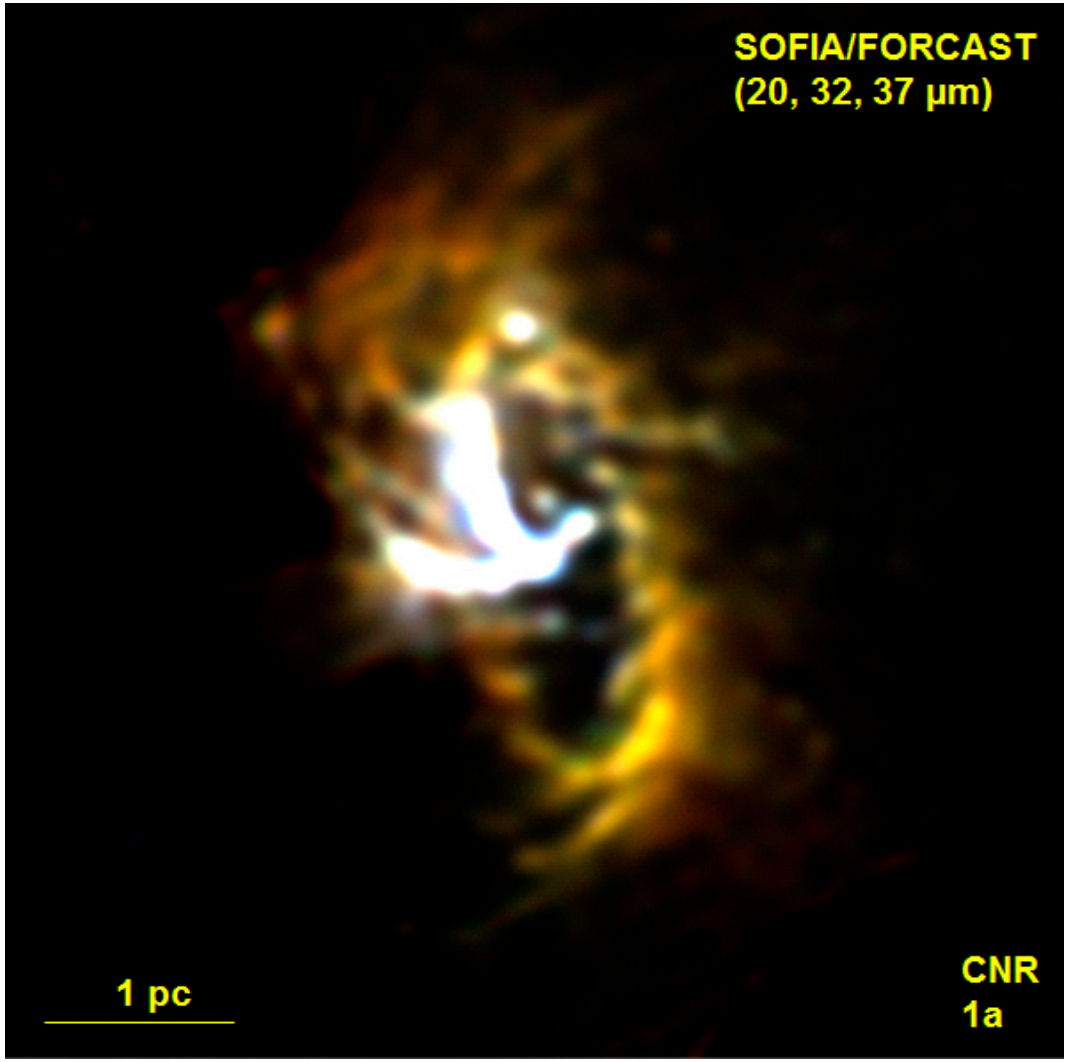
SOFIA Science Mission Operations

Recent Campaigns

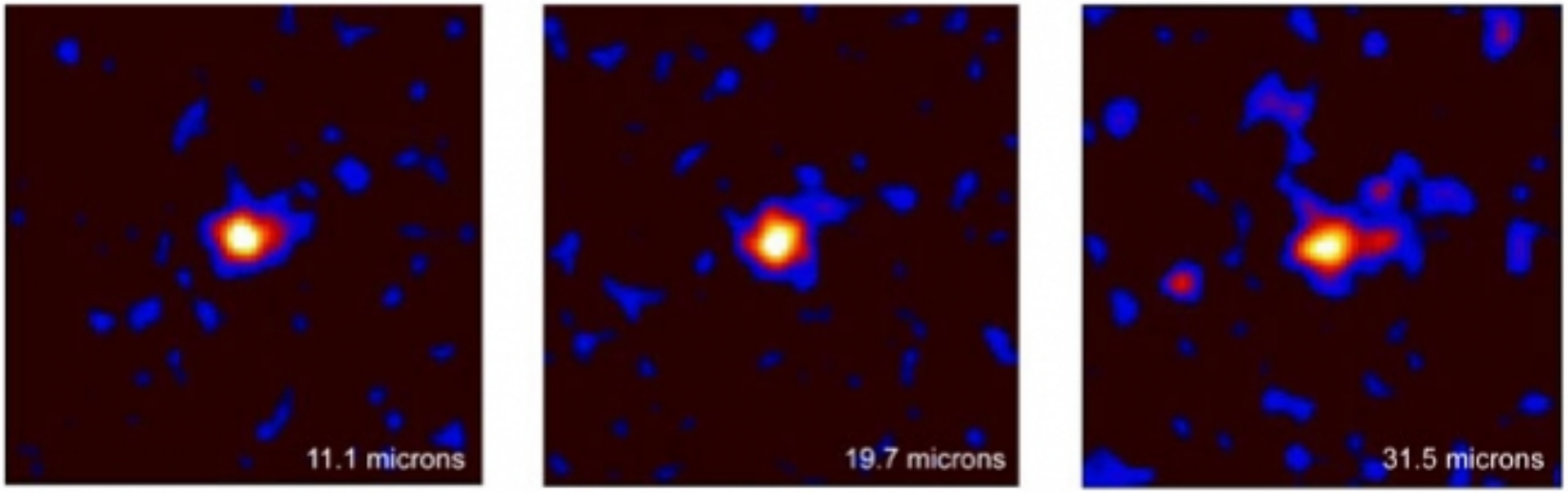
- Since February SOFIA has been:
  - Commissioning FLITECAM
  - Commissioning FIFI-LS
  - Commissioning EXES
  - Carrying out Cycle 2 observations with GREAT, FORCAST, FLITECAM, & FIFI-LS

- SOFIA will be flying tonight on flight 171 with GREAT

FORCAST Observation of Galactic Center

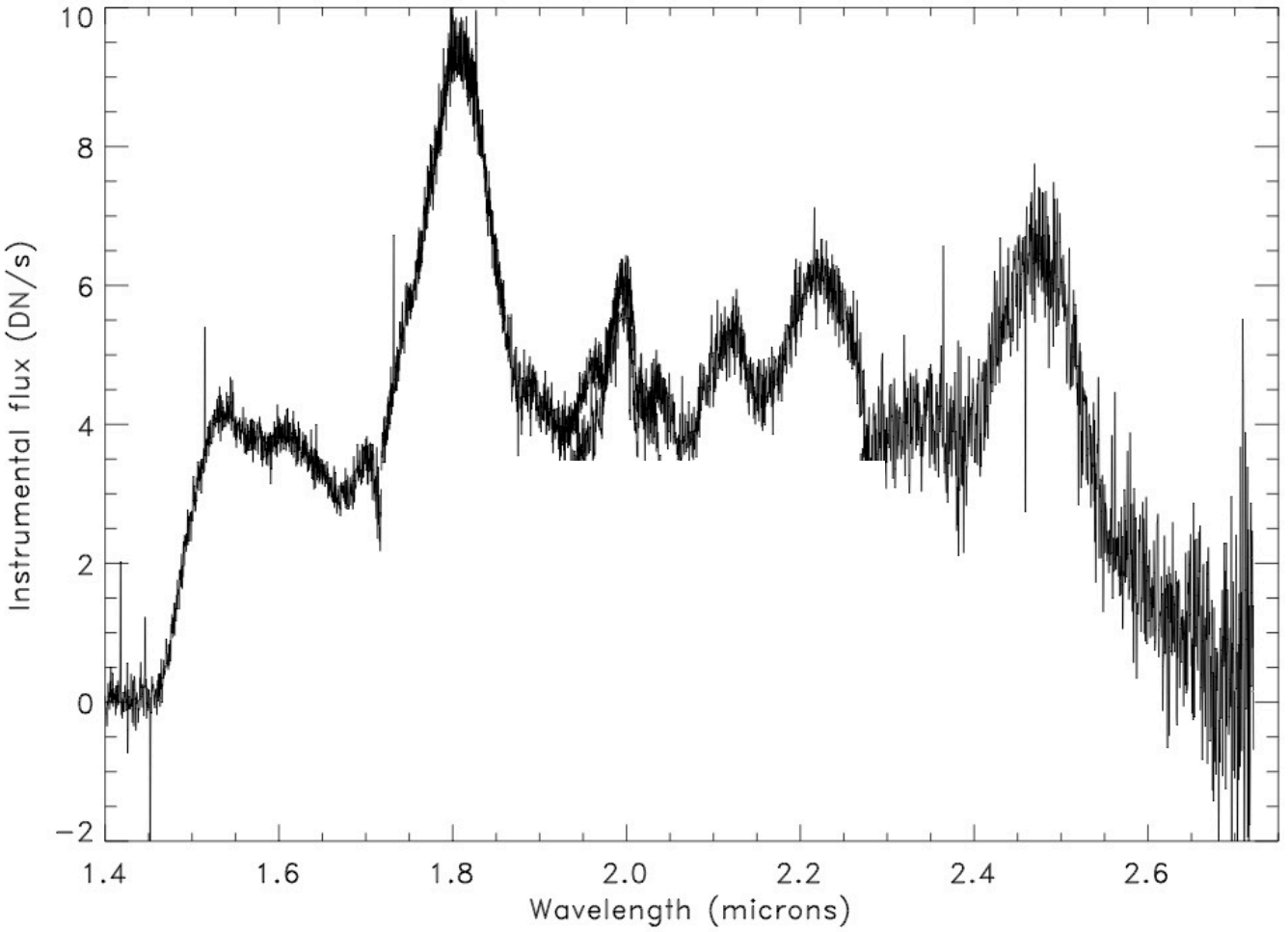


Smoothed SOFIA Images of Comet ISON

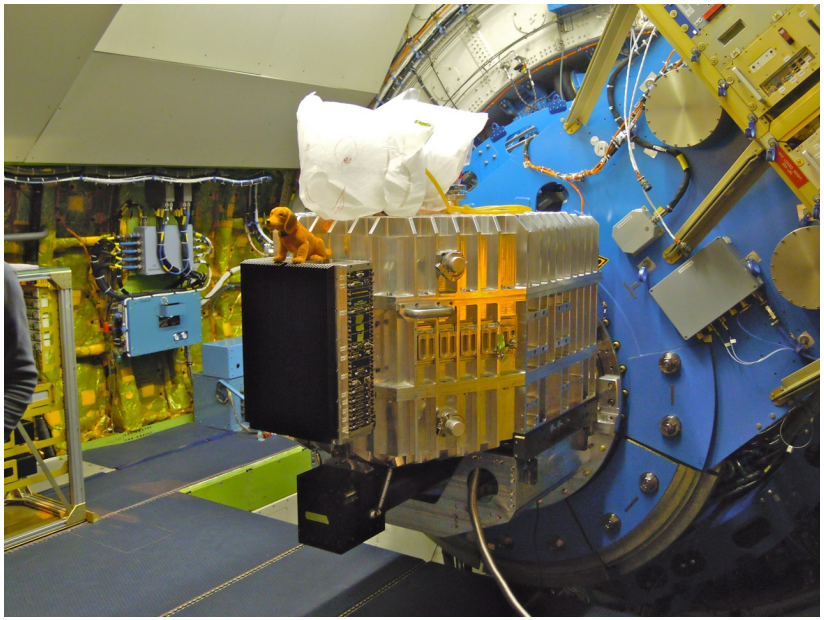


All images taken with FORCAST; 3-pixel Gaussian smooth applied

FLITECAM Spectrum SN 2014J



FIFI-LS and EXES First Light

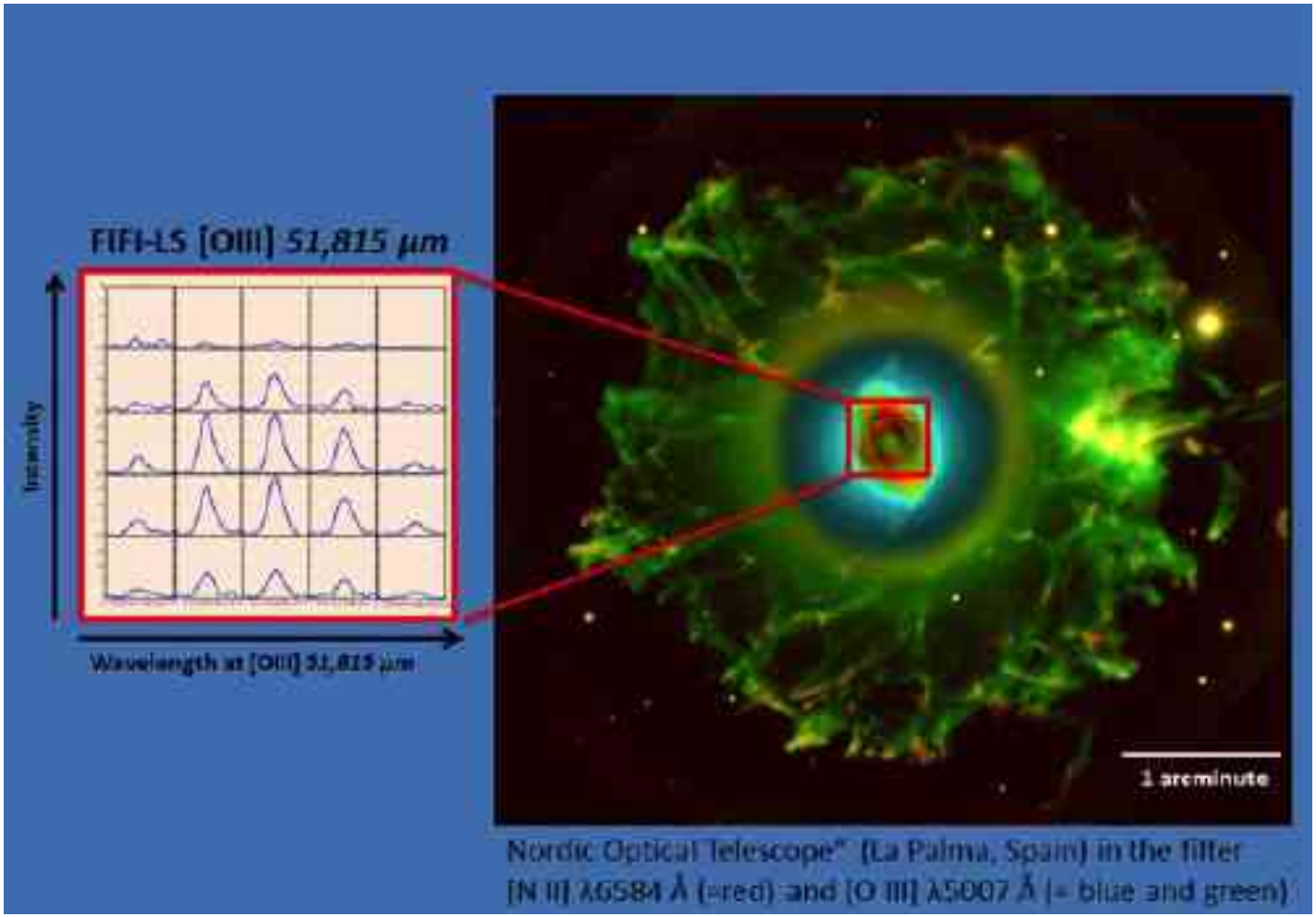


FIFI-LS on the telescope
First Light Flight 150

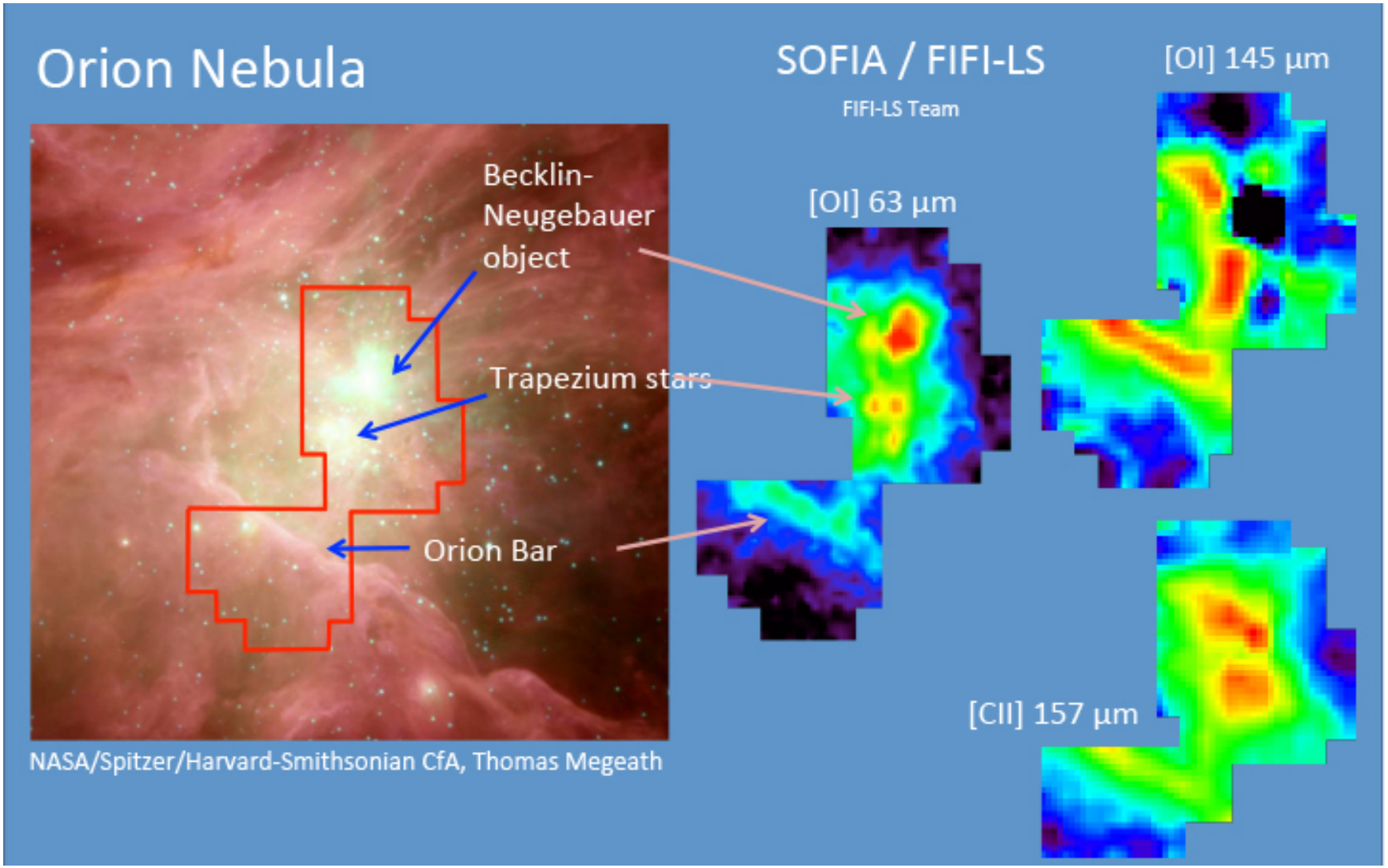
EXES Team after installation
First Light Flight 158

FIFI-LS Commissioning Observations

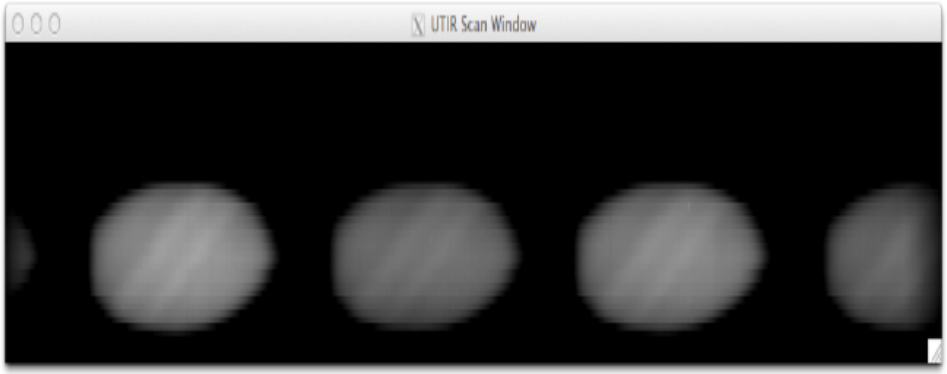
FIFI-LS Observations NGC 6543



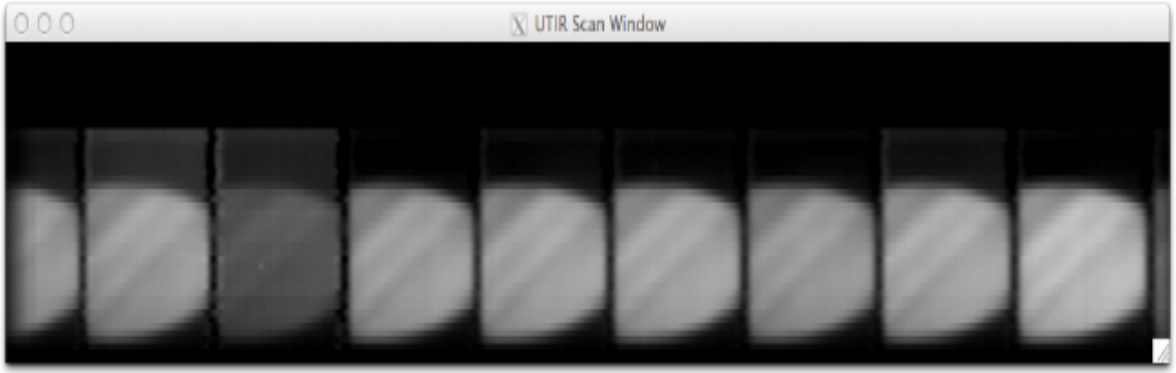
FIFI-LS Orion Nebula Observations



EXES Observes Molecular Hydrogen



Quick look screenshots near 28 μm S(0) Line

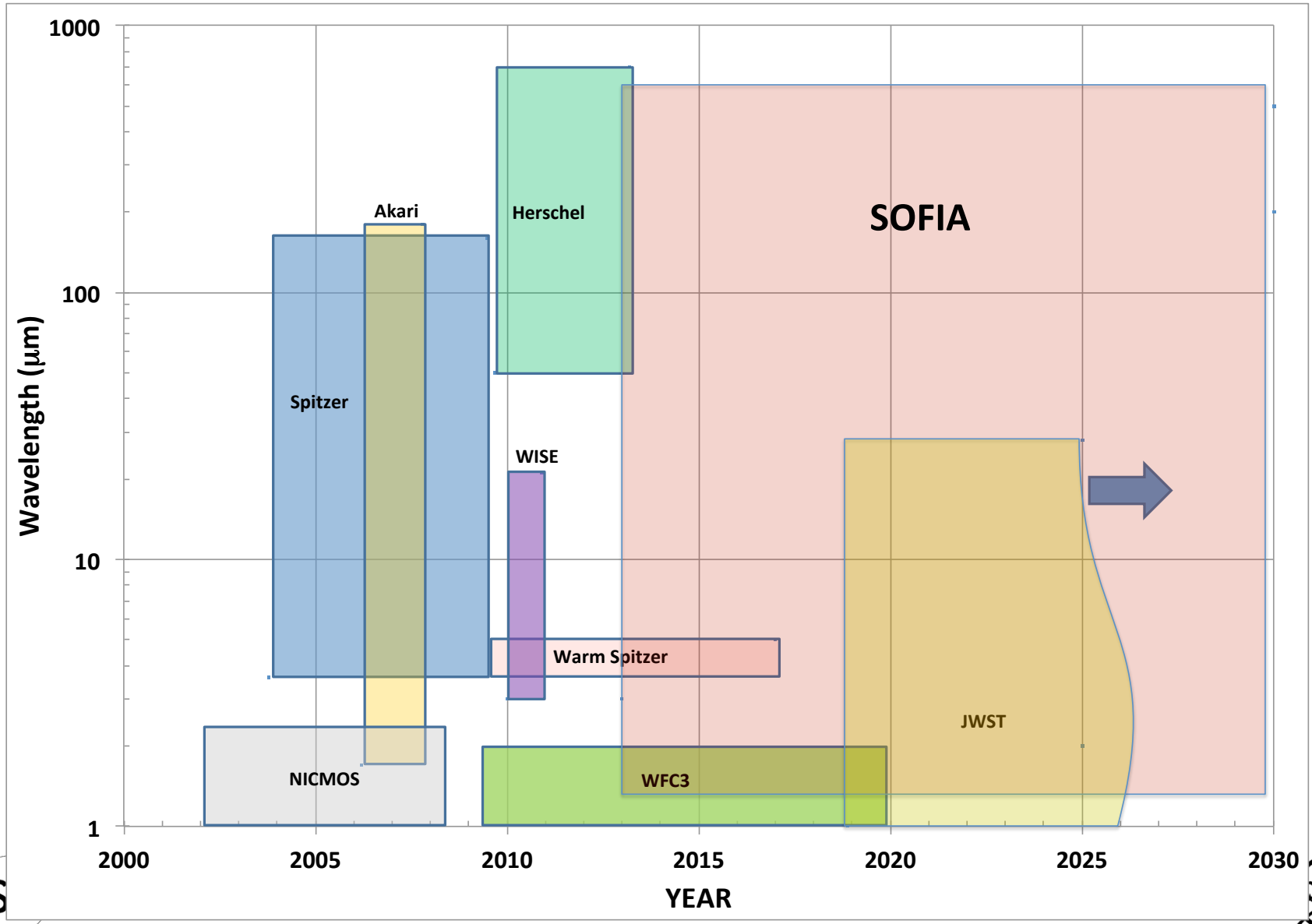
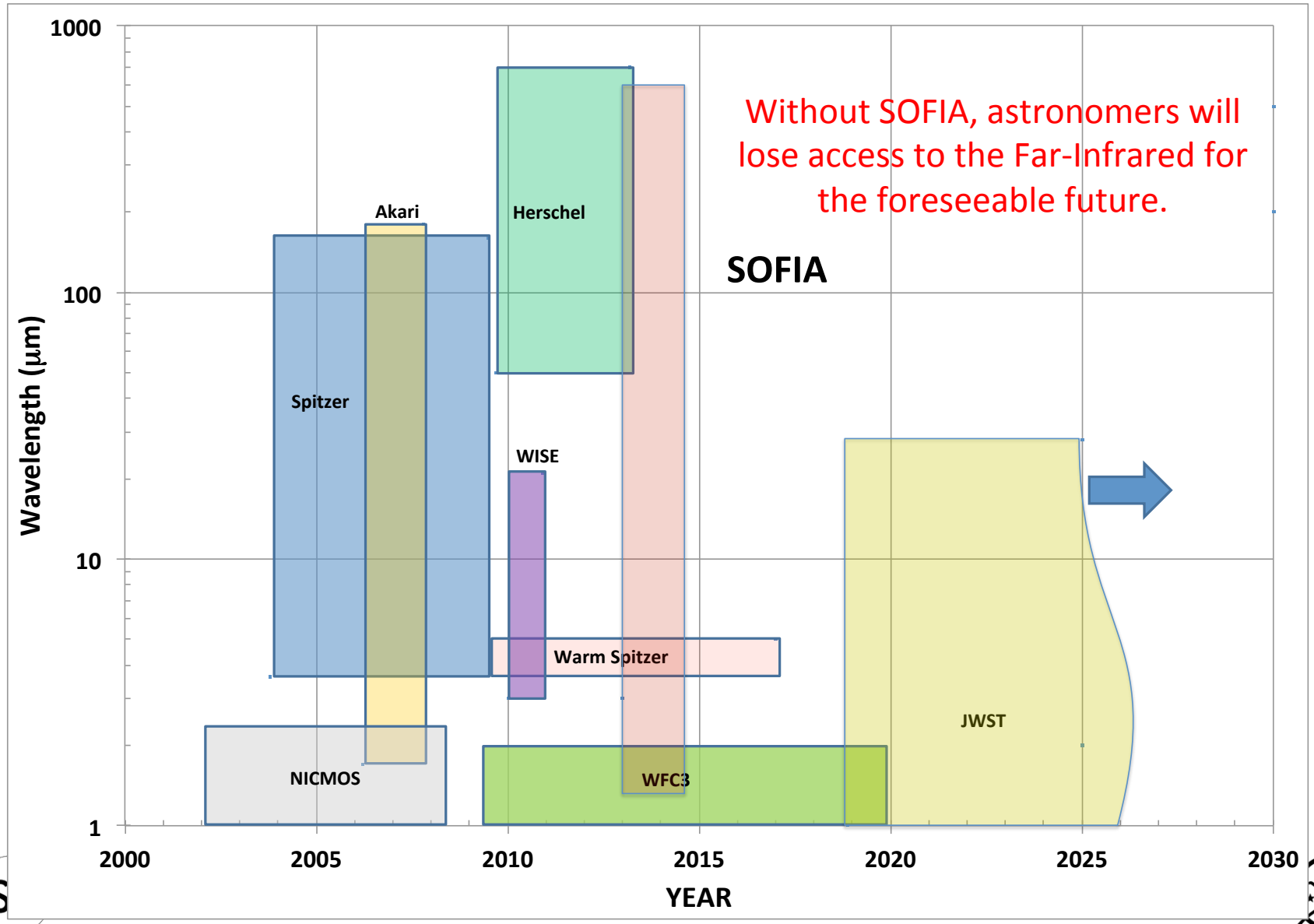


Quick look screenshots near 17 μm S(1) Line

Tonight's Flight

- GREAT Commissioning of new H-channel
  - 4.7 THz mixer for [O I] line
- Coming in early 2015
  - 14-pixel upGREAT array

Infrared Mission Coverage



Coverage Without SOFIA