DO YOU MISS HERSCHEL? - USE SOFIA! WE ARE OPERATING NOW.



Maja Kaźmierczak-Barthel¹, Bernhard Schulz¹, HANS ZINNECKER^{1,2}, RANDOLF KLEIN³ & SOFIA TEAM^{1,3}

¹ Deutsches SOFIA Institut (DSI), University of Stuttgart, Germany; ² Universidad Autonoma de Chile, Santiago de Chile, Chile; ³ USRA SOFIA, USA

SOFIA – Stratospheric Observatory For Infrared Astronomy



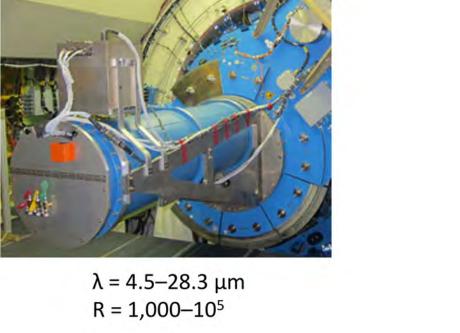
SOFIA; © NASA/USRA

• Highly modified Boeing 747SP with a 2.7 m telescope (effective 2.5 m)

• SOFIA flies at altitudes between 11.9 km (39,000 ft.) and 13.7 km (45,000 ft.)

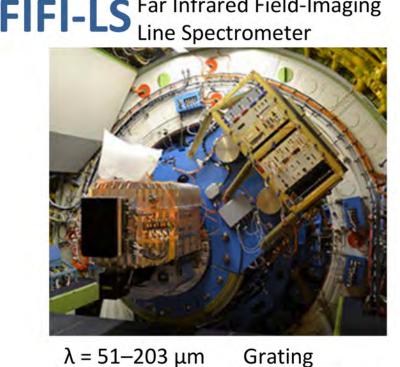
- SOFIA has 6 instruments that provide imaging, spectroscopic, and polarimetric capabilities for a wide range of scientific investigations
- SOFIA science is complementary to Herschel's and goes beyond
- Reached Full Operational Capability in May 2014
- Mission planned for \sim 20 years
- Based at NASA-Armstrong facility in southern California, USA
- ~ 2 months per year in southern hemisphere deployments (Christchurch, New Zealand)
- SOFIA is a joint project of NASA (80%) and DLR German Aerospace Center (20%)

SOFIA Instruments EXES Echelon-Cross-Echelle Spectrometer FIFI-LS Far Infrared Field-Imaging Line Spectrometer

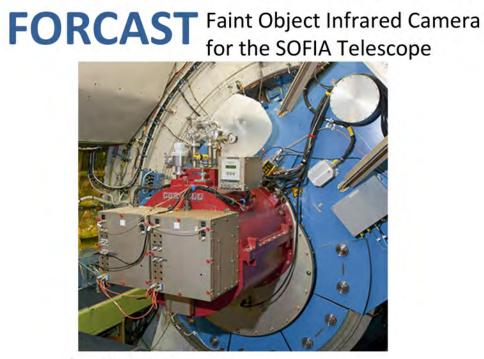




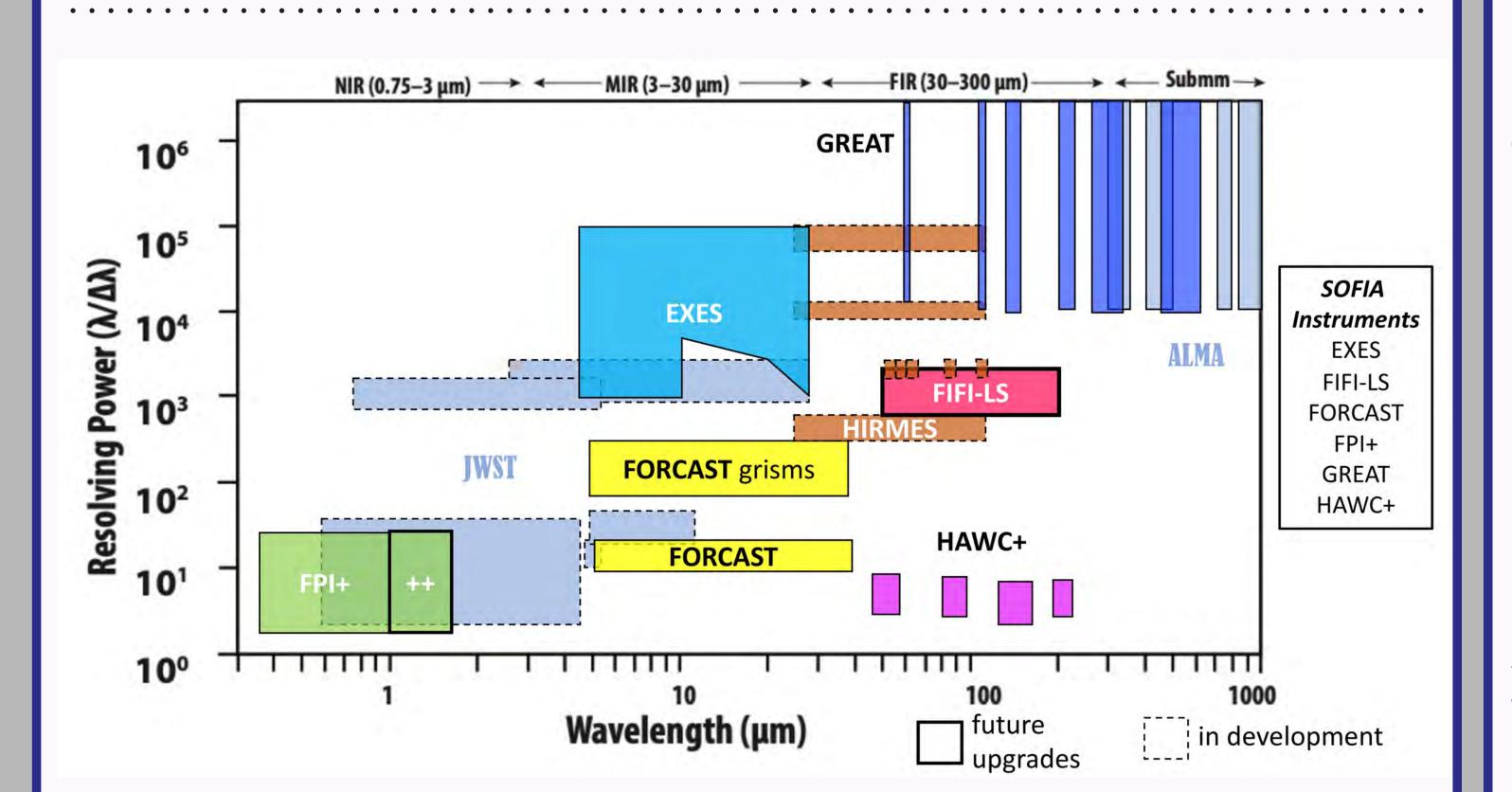
 $\lambda = 0.36-1.10 \,\mu m$ Optical Camera, R = 0.9 - 29.0

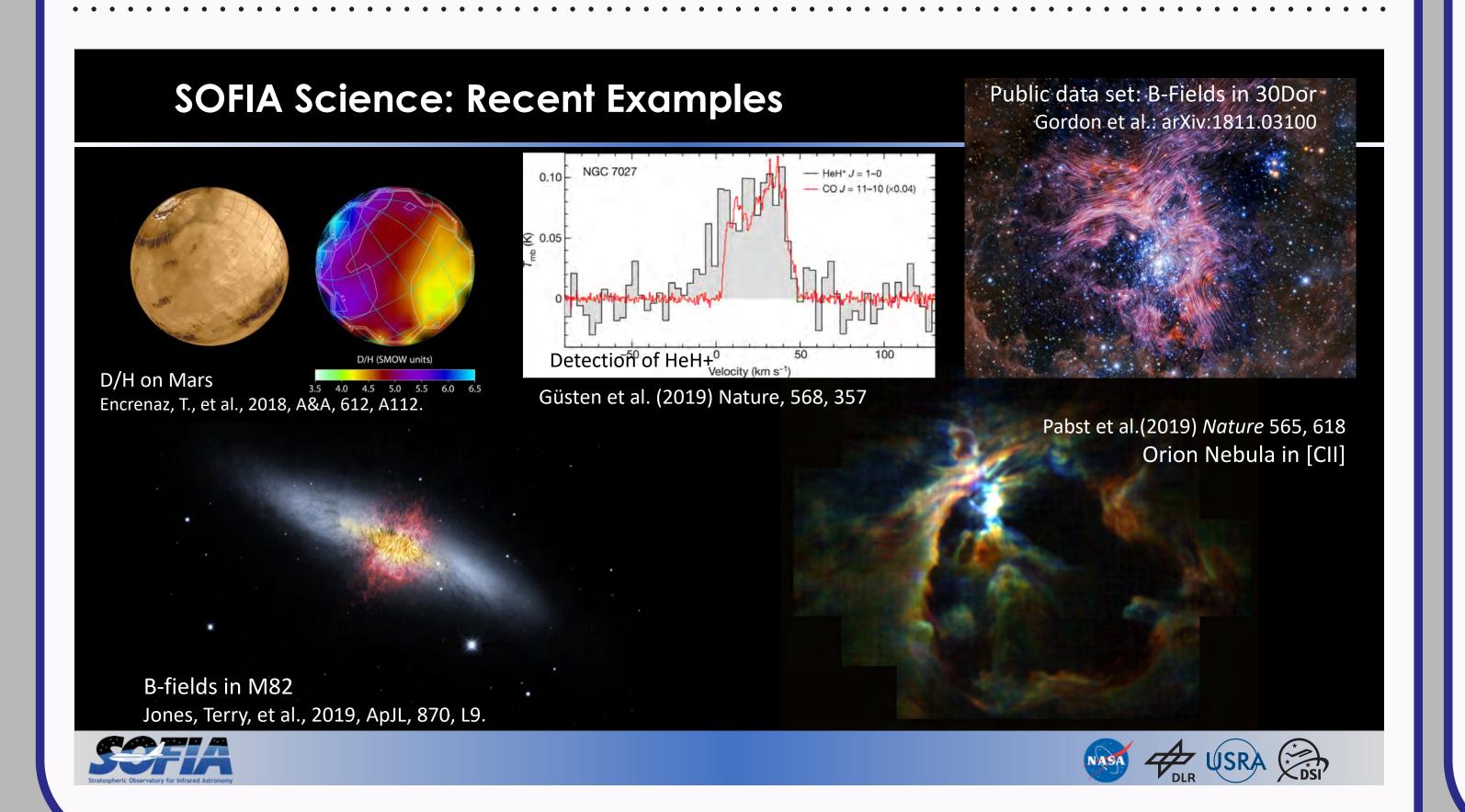












Call for Proposals 2019 Cycle 8

Basic INFO

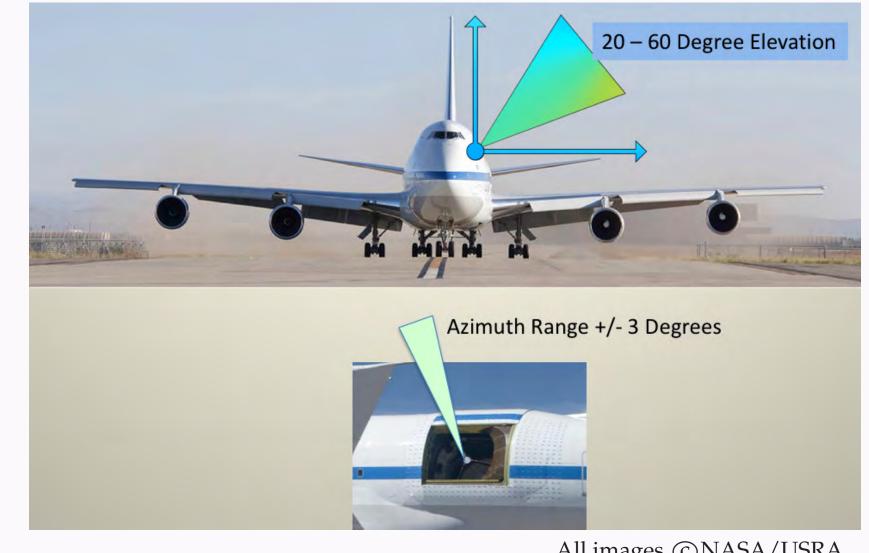
- \sim 400 hours available (\sim 70 h in German CfP)
- ~100 h for the SOFIA Legacy Program
- Additional 7% of the available Research Hours for the Director's Discretionary Time (DDT)
- Types of Programs: Regular, Survey, Target of Opportunity, DDT, Joint Observations with Other Observatories
- plus SOFIA Legacy Science Program and Archival Research Program (time period – for both Cycle 8 & 9)
- Proposals are accepted in 3 priority bands: Priority 1 (will do), Priority 2 (should do) and Priority 3 (do if time)
- A southern deployment is planned with 2 instruments
- Cycle 8 is potentially the last cycle in which FORCAST will be offered
- As a PI of a successful proposal you can fly on SOFIA!

Cycle 8 Schedule

- May 31, 2019 Release of Call for Proposals
- June 7, 2019 Release of German Call for Proposals
- September 6, 2019, 21:00 PDT Proposals Submission deadline
- September 7, 2019, 06:00 CEST Proposals Submission deadline
- December 2019 Anticipated Announcement of Selections
- April 25, 2020 April 24, 2021 Cycle 8 Period

Practical INFO

- https://www.sofia.usra.edu/researchers/proposing-and-observing
- http://www.dsi.uni-stuttgart.de/observatorium/proposals/cycle08 (for German affiliations only)
- https://dcs.arc.nasa.gov
- help desk: sofia_help@sofia.usra.edu



All images © NASA/USRA