











































































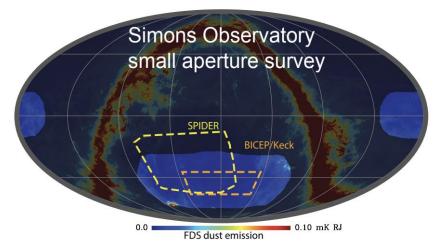








SIMONS OBSERVATORY (SO) — MULTIFREQUENCY MM SURVEY AND SCIENCE GOALS

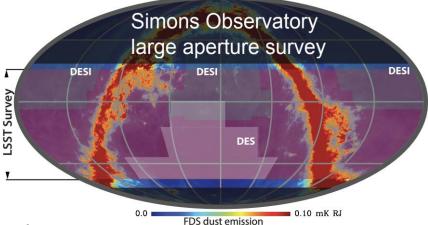


Science:

- high-risk, high-reward
- Signature of inflation

SAT Survey:

- low-dust 10% of the sky
- Large-Scale polarization, B-mode



Science:

- Primordial perturbation
- Neutrino mass
- Relativistic species
- Reionization
- Dark energy
- Galaxy evolution
- Transients

LAT Survey:

- 40% of the sky
- Overlap with Rubin Observatory/LSST and other LSS

Periodic data releases: CMB, lensing maps, source and cluster catalogs, transient events

SIMONS OBSERVATORY (SO) — SITE

The Observatory is fully deployed and operational, including the DM component. Remote operations are ongoing daily.





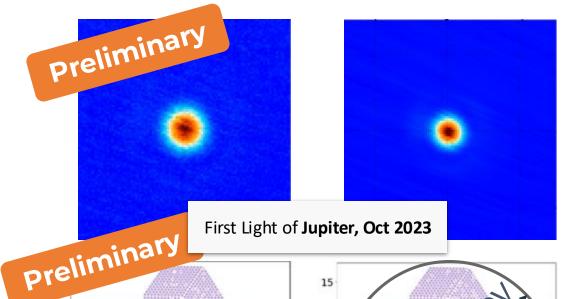
SIMONS OBSERVATORY (SO) — LAT AND SATS

The Observatory includes 3 Small-Aperture Telescopes (SATs) and 1 Large-Aperture Telescope (LAT), with a total of 7,000 detectors on the sky.

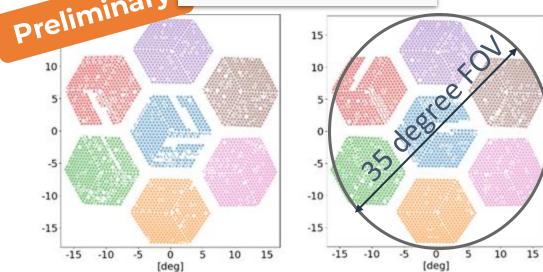




SOME SATS RESULTS



- All 3 SATs had first light and have gone through extensive commissioning. Starting full science operations soon.
- SO Collaborators at all career stages are using the DM infrastructure and tools to analyze the data

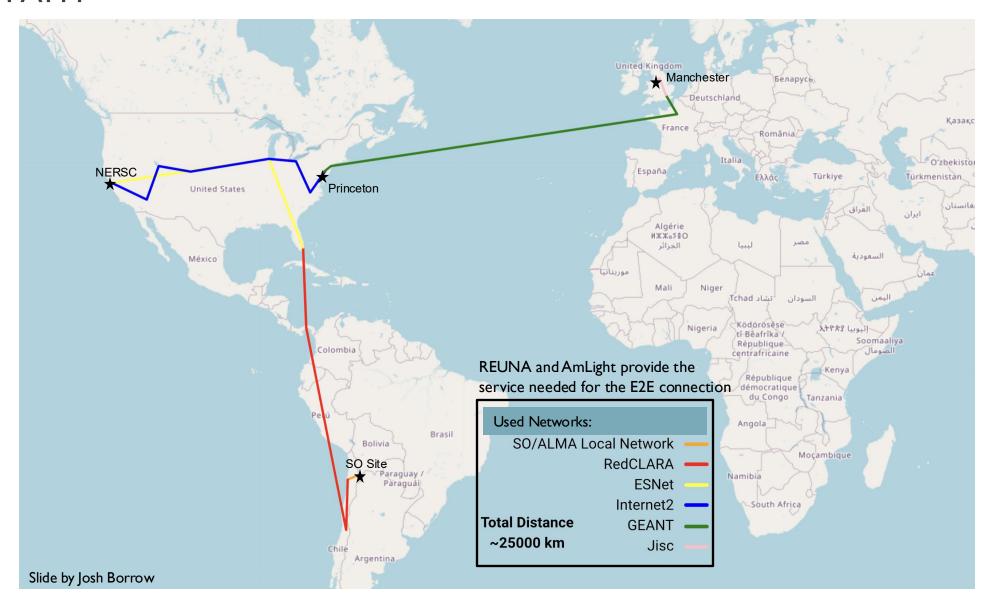






SOME SATS RESULTS
170 160 150 140 130 130 130 150 150 160 160

DATA PATH

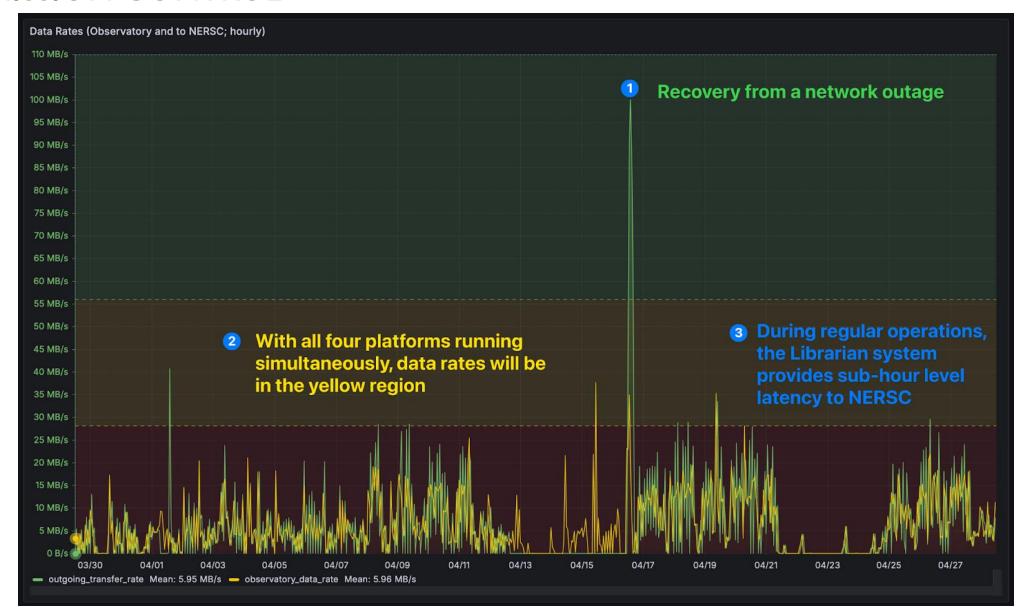


SO MISSION CONTROL

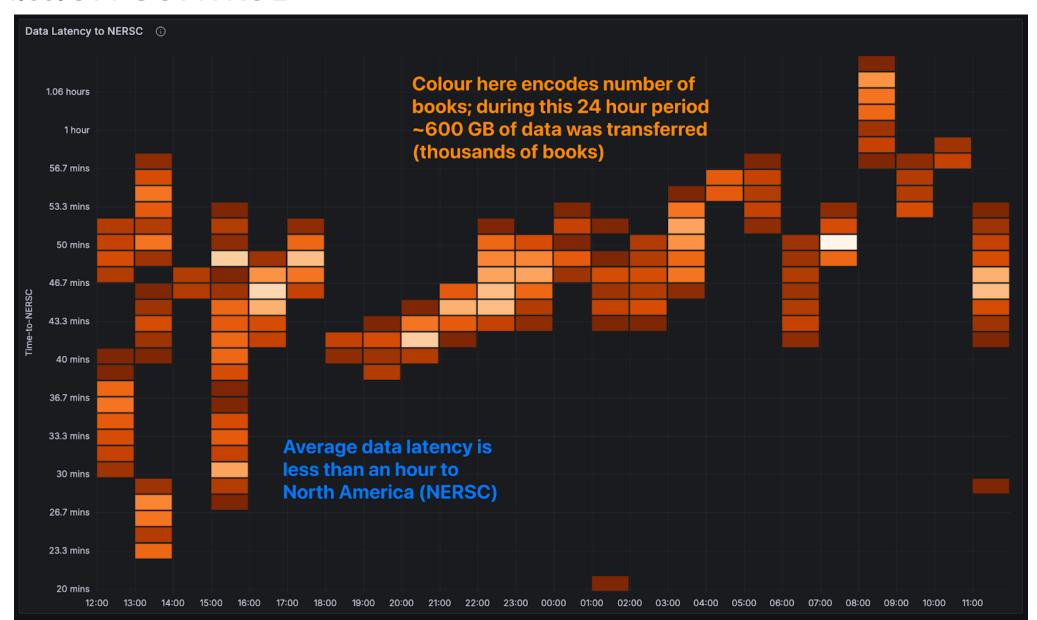


Slide by Josh Borrow

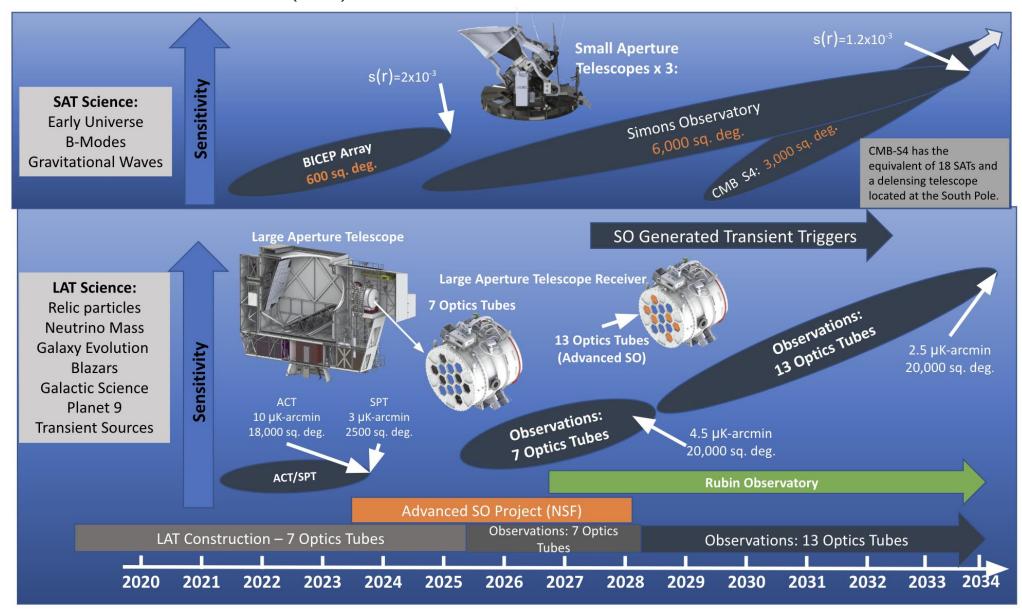
SO MISSION CONTROL



SO MISSION CONTROL



SIMONS OBSERVATORY (SO) — SO TIMELINE AND EXPANSIONS



SIMONS OBSERVATORY (SO) — SO TIMELINE AND EXPANSIONS

