

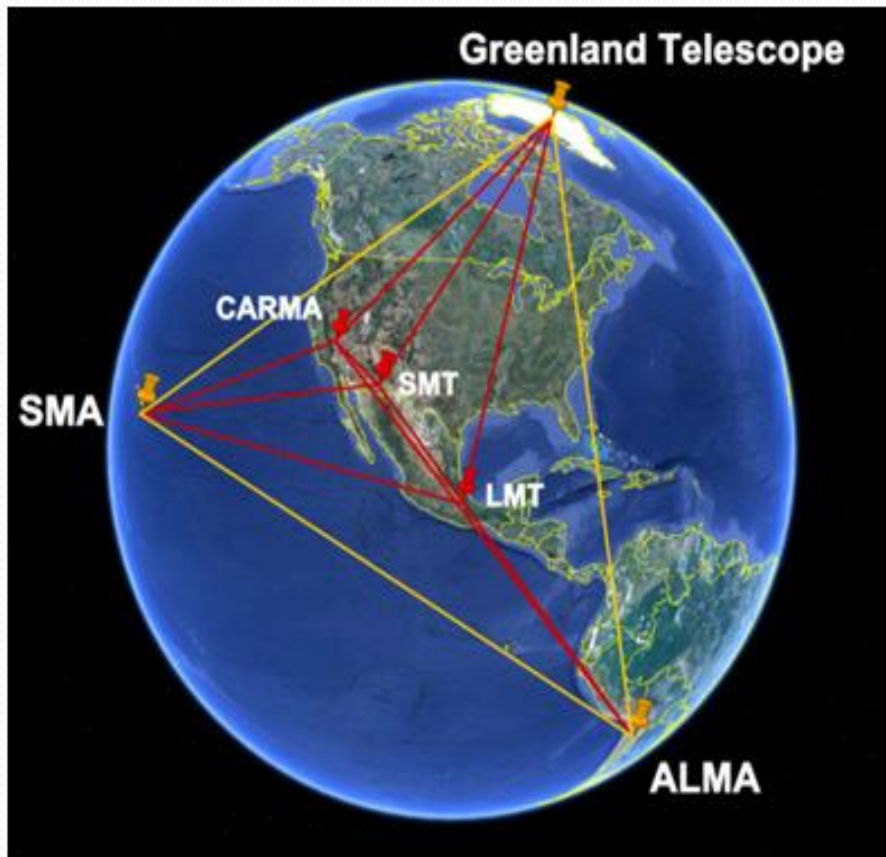
Greenland Telescope Project

Smithsonian Astrophysical
Observatory (SAO) and
the Academia Sinica
Institute of Astronomy and
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Why Summit?



- Northern location establishes a key EHT single dish site near Summit Station that provides the greatest angular resolution possible from the surface of the earth.
- Site characteristics such as low water vapor, and high altitude lead to significant observing time at the highest frequencies.
- Existing NSF presence facilitates logistics and infrastructure support.

Antenna Retrofit and Project Schedule

Project Schedule

2014 – Permits, agreements, and antenna retrofit.

2015 – Antenna test and initial deployment to Thule Air Base, Greenland

2016 – Complete assembly. Begin on-sky test at Thule.

2018 – Deploy to Isi Station

Reflector: 10 T

Invar cone: 10 T

Receiver cabin: 30 T

Fork: 40 T

Base support: 20 T

