

## Science Operations



### Your Proposal

- The science program will be determined by proposals led by principal investigators.
- Regular calls will solicit proposals.
- Proposals will be peer reviewed, then ranked based on scientific merit, technical feasibility and the time available at the bands and LSTs that they require.

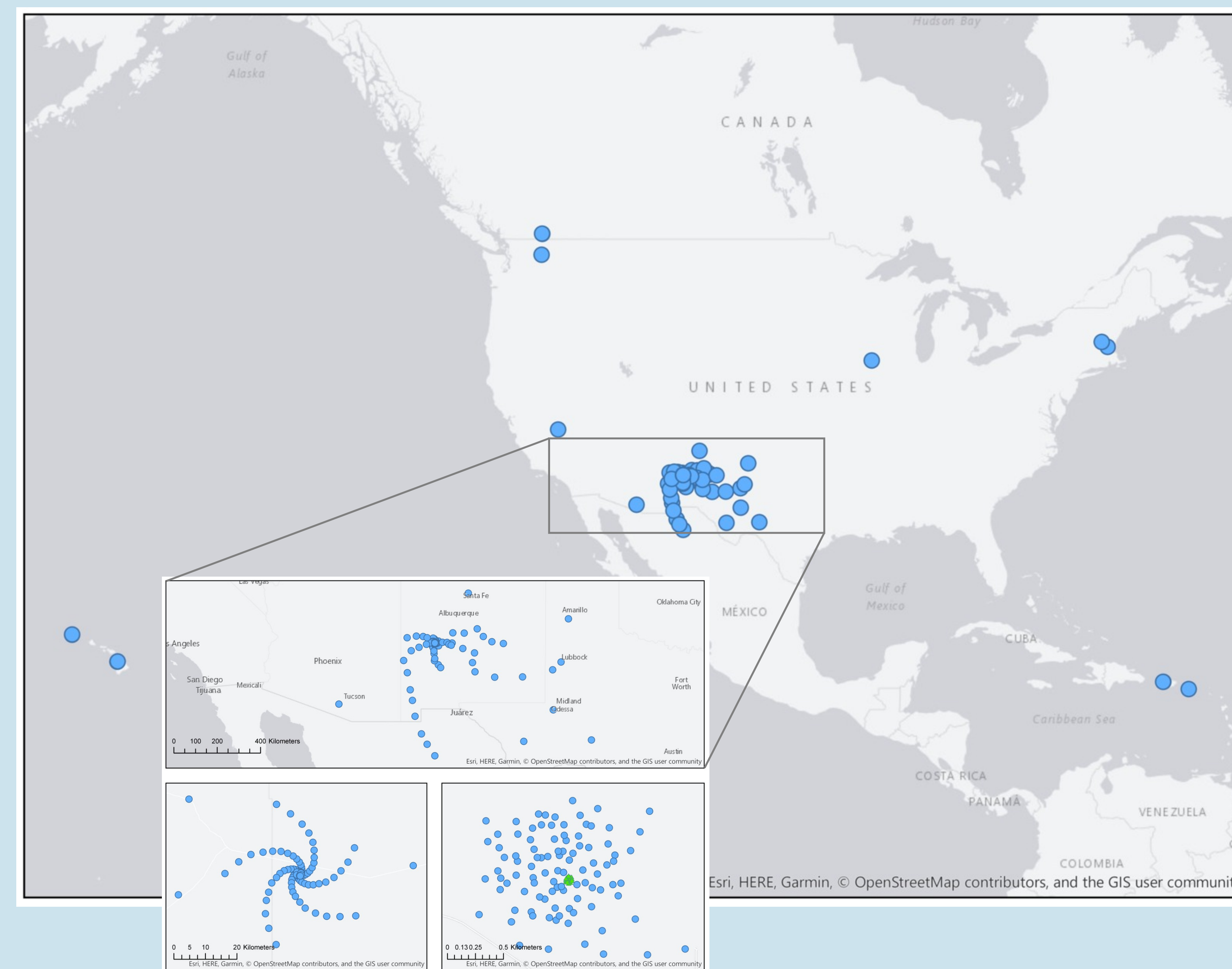
### Your Observations

- Approved proposals will be converted into scheduling blocks that generally conform to standard observing strategies.
- Blocks will be scheduled dynamically according to the facility's environmental conditions and status, and the proposals' rankings and requirements.

### Your Data

- Data will generally be delivered to the proposal team as Science Ready Data Products; that is, automated pipelines will calibrate the raw data and create quality assured, higher level data products.
- Data will be proprietary to the proposal team for a fixed period. Thereafter, the raw data and the Science Ready Data Products will be released to the public.
- By providing standard observing strategies and delivering Science Ready Data Products, the facility aims to support a broad community of users and to expedite multi-wavelength and multi-messenger astronomy.

## Array Operations and Maintenance



- Three primary centers will support the operations and maintenance of the facility.
  - A Maintenance Center with expedient access to the dense core of antennas
  - An Array Operations and Repair Center in Socorro, New Mexico
  - A Science Operations and Data Center in a U.S. metropolitan area
- The facility will generally be operated in subarrays, allowing science observing and array maintenance to occur simultaneously.
- To minimize maintenance costs, the design will focus on efficiency, including using modularized components, minimizing antenna visits for preventative maintenance and repair, and utilizing automated diagnostics.

