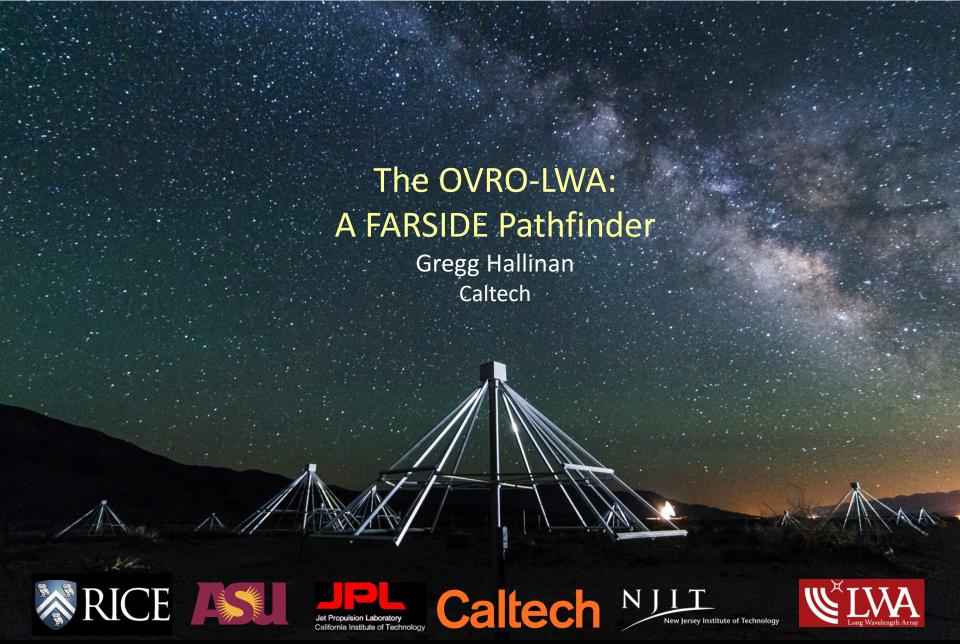


NESS Steering Committee





OVRO-LWA: Concept

Adapt the LWA antenna to all-sky imaging at ~few arcminute resolution

352 antennas spaced over ~2.6 km

Full cross-correlation = All-sky FOV

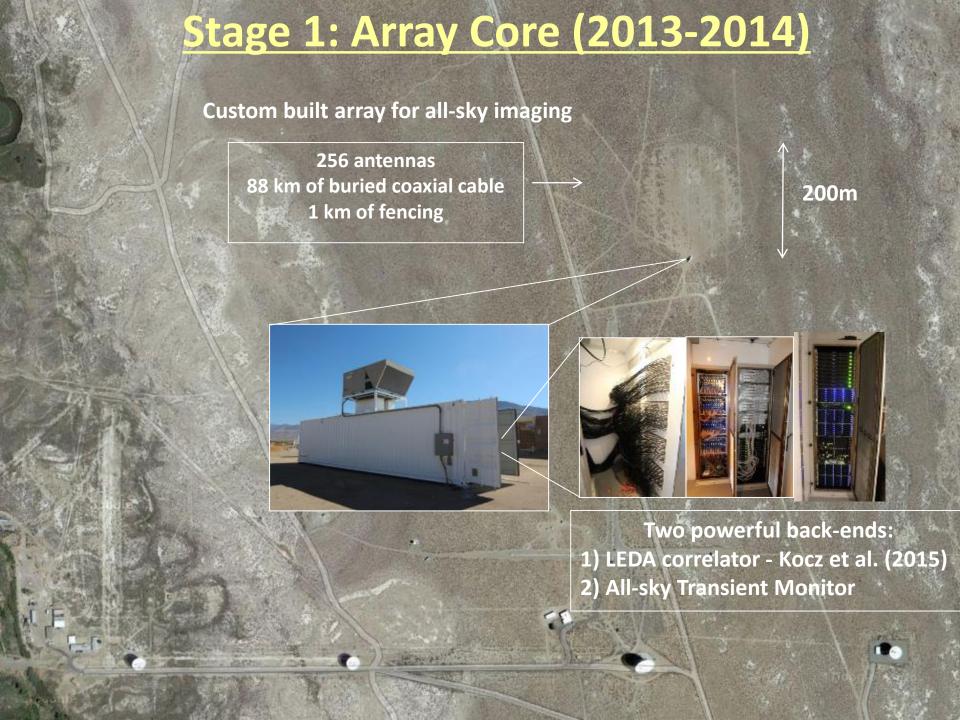
15-85 MHz (2900 channels)

5 arcminute spatial resolution

Construction in 3 stages...

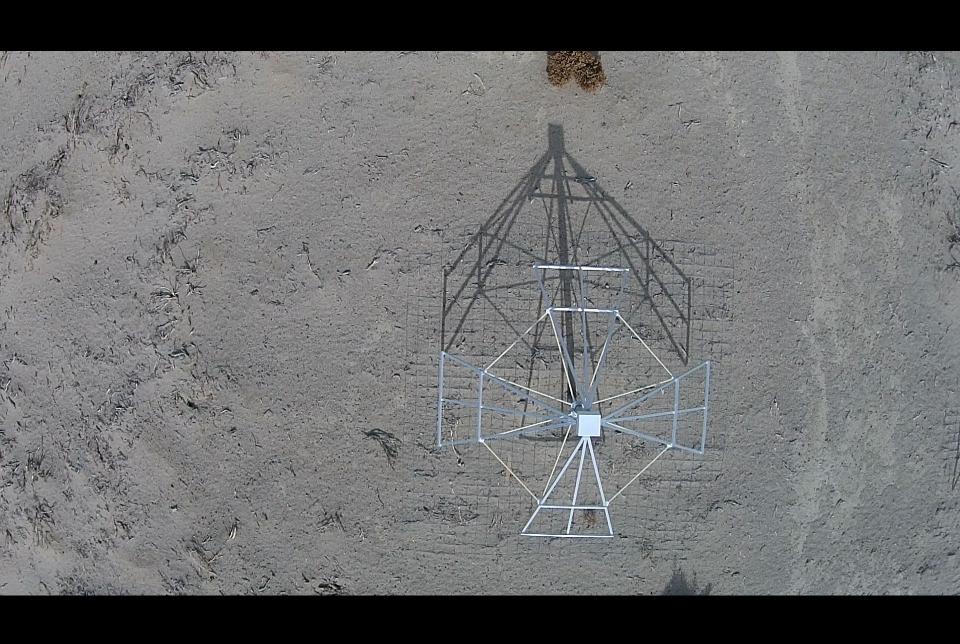




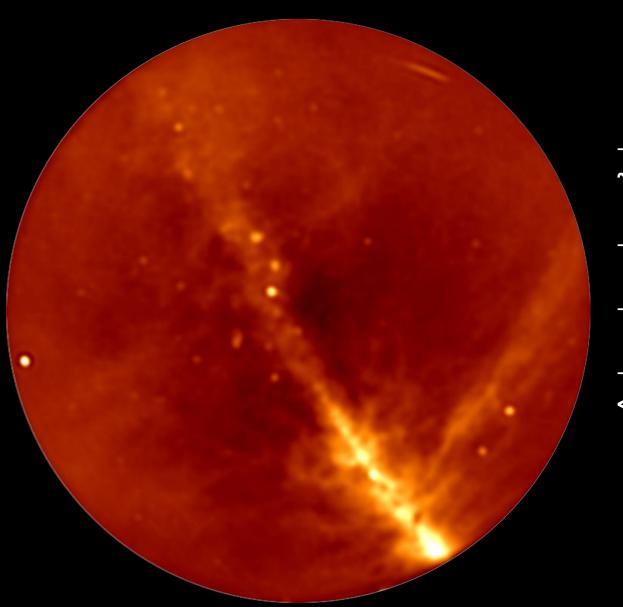


Antenna and Front-end

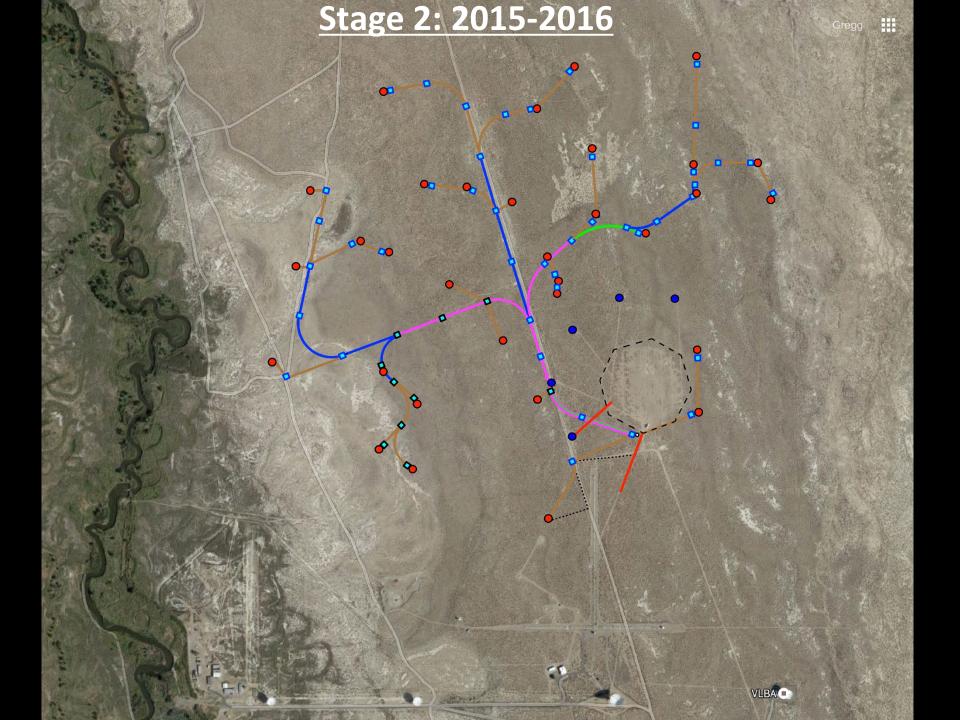




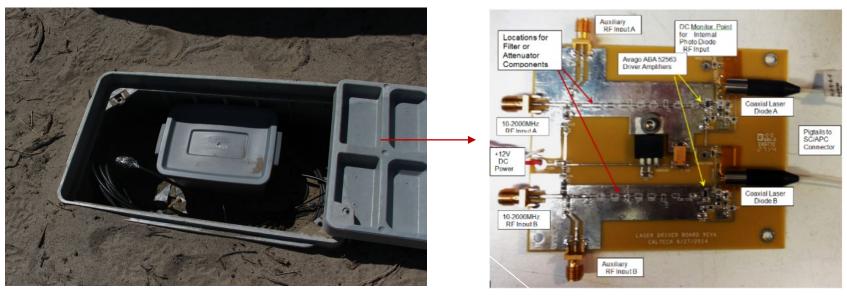
Core Image (200m baselines)

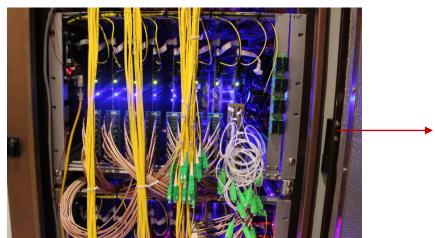


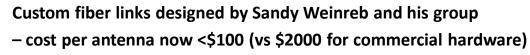
- 30 second snapshot with40 MHz bandwidth
- Confusion limit is ~few Jy
- Thermal noise is ~ 200 mJy
- Reach confusion noise in<0.1 seconds



Fiber Link Development









Long baseline demonstrator array – 2015



- Large network of conduit holding 43 km of optical fiber
- 6 fibers at each "station" to allow the future completion of the array





