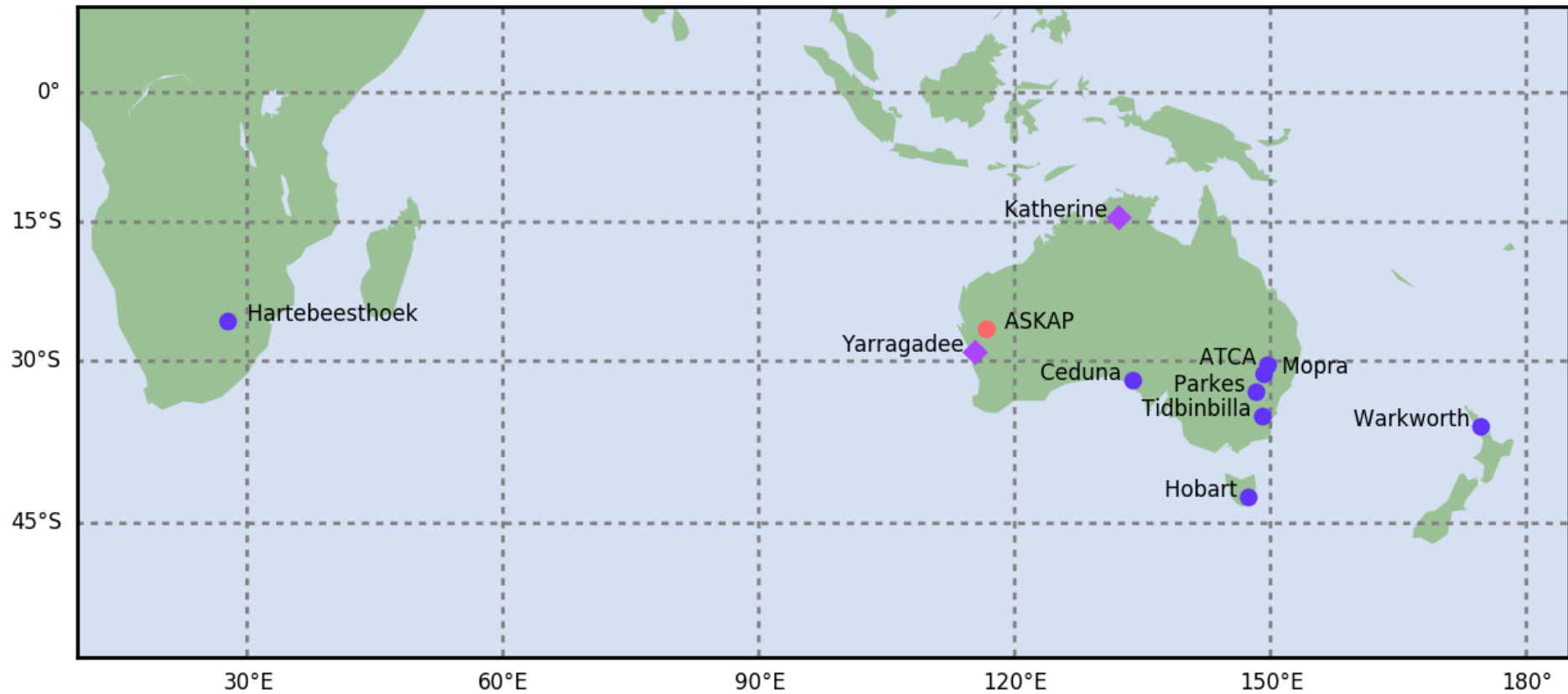


# Long Baseline Array



# The LBA – Past 12 Months

- 24 Days observing
  - 4 ATNF Antennas (Parkes, ATCA, Mopra, ASKAP)
  - 4 UTAS antennas (Hobart , Ceduna, Yarragadee, Katherine)
  - Warkworth x2 antennas (AUT, NZ)
  - Tidbinbilla, Hartebeesthoek
  - Kunming, Tianma65, Badary, Zelenchukskaya, Svetloe
- Exercising Geodetic (Mark4) output after hiatus of some years
- Upgraded to DiFX-2.5.2
  - Transitioned to using CALC11 as default
  - Ongoing astrometric series revert to CALC9
    - Analysing need for this
  - Stability good. Handful of unexplained job failures in 12 months
- Espresso updates
  - Compatible with DiFX-2.5
  - Vex support added across

# Espresso – Batch Implementation

- Slurm and PBS
- Updated for DiFX-2.5 (file lists)
- Supports CALC11 and CALC9 via vex2difx
- Bug fixes and interface improvements
- Added vex options to most utilities
- Documentation update
- “plot\_polyco.py” - polyco checker

# LBA Correlator Facility – Pawsey Centre

- **Magnus Specs**

- 1488 x 24 core nodes

- 1097 Teraflops

- Cray Aries interconnect

- 72 Gbps per node

- #41 on Global Top500 list of supercomputers (2014/11)

- 250,000 CPU hours secured through merit allocation in 2018

- Pawsey just received \$70 million for upgrade of full supercomputing suite



# SCHED

- Development hiatus for a few years
- New release imminent
- Better, but not complete support for DBBC
- Better, but far from complete support for VDIF