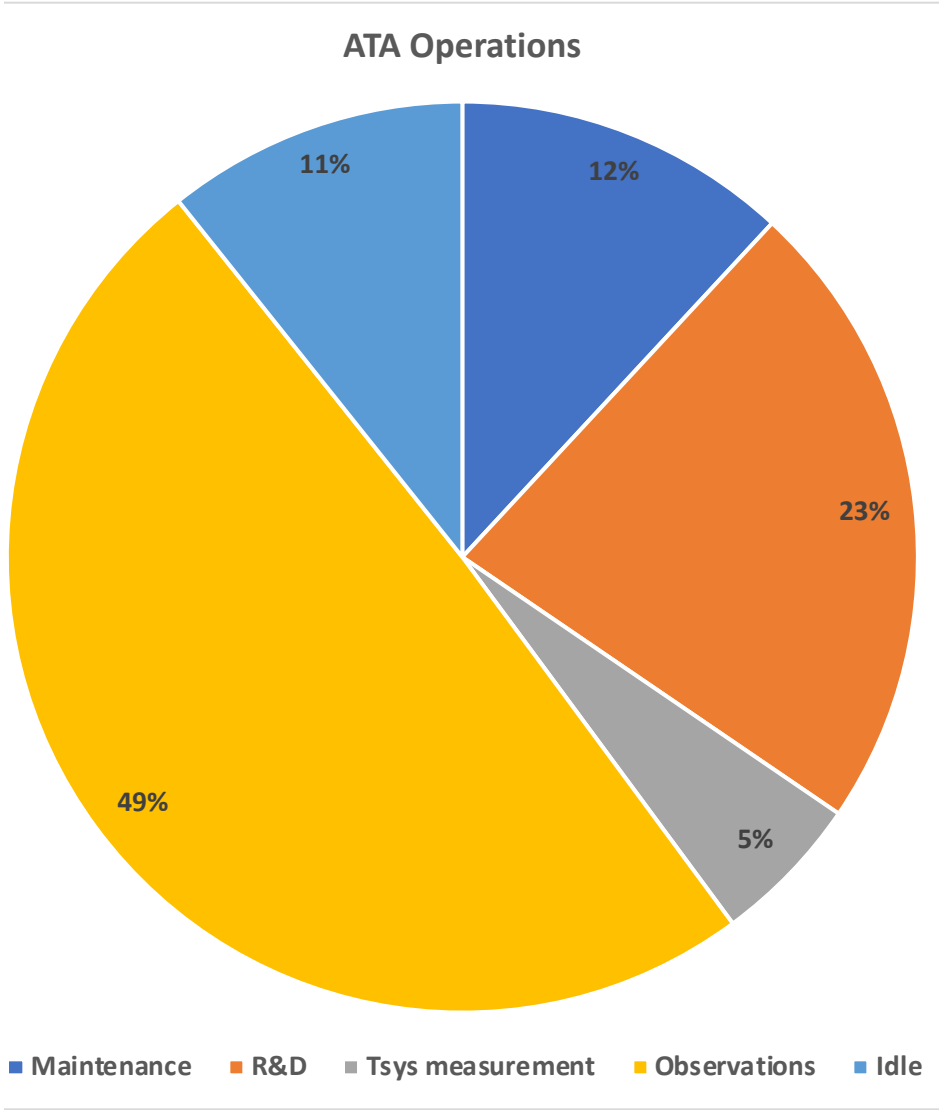
General Update

- Antennas
  - maintenance completed on operational antennas
  - 12 antennas scheduled for maintenance in the next two weeks
- Antonio Feeds
  - All 19 feeds running well
  - Maintenance planning for for 3C and 4J

Agenda for today's meeting

- Current status of DSP backend and next steps.
- Beamformed SETI observing.
- Overview of SETI pipeline, from output beamformer to detection.
- Current status of observations and planning for new observing runs.



Current status of DSP backend :

- Spectrometer mode, used with SNAP and RFSoC: currently used for RFI scans, (Tsys, Pulsar, FRB, tpoint calibration, raster scan)
- Widefield Mode (voltage 8bit capture and incoherent sum), used with SNAP and RFSoC: primary use SETI survey
- Voltage Mode (voltage 8bit capture directly to disk), used with RFSoC: general testing, manual correlator, beamforming
- Realtime Correlator, used with RFSoC, xGPU: primary use for calibration, secondary use for imaging, Tsys
- Realtime Beamformer, used with RFSoC, BLADE: primary use for SETI, secondary future use Pulsar, FRB

DSP backend and next steps :

- Spectrometer [DONE]
- Widefield Mode [DONE]
- Voltage Mode [DONE]

- Realtime Correlator:
  Post processing software:
  - automate phase calibration (low priority)
  - verify delay engine with astrometry [bore side pointing] (medium priority)
  - automate data output (low priority)

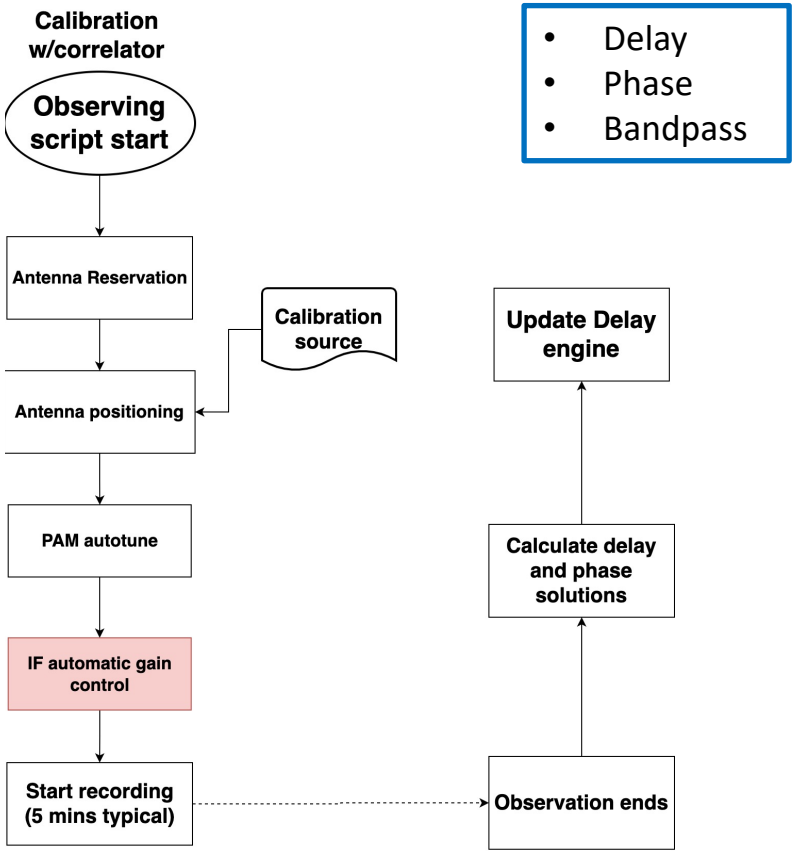
- Realtime Beamformer:
  Post processing software:
  - produce correct data format for turbo SETI (high priority)
  - verify, run tests on data format for turbo SETI (high priority)
  - produce multiple beams on the sky (high priority)
  - implement functions from correlator into beamformer (high priority)

Beamformed SETI Observing:

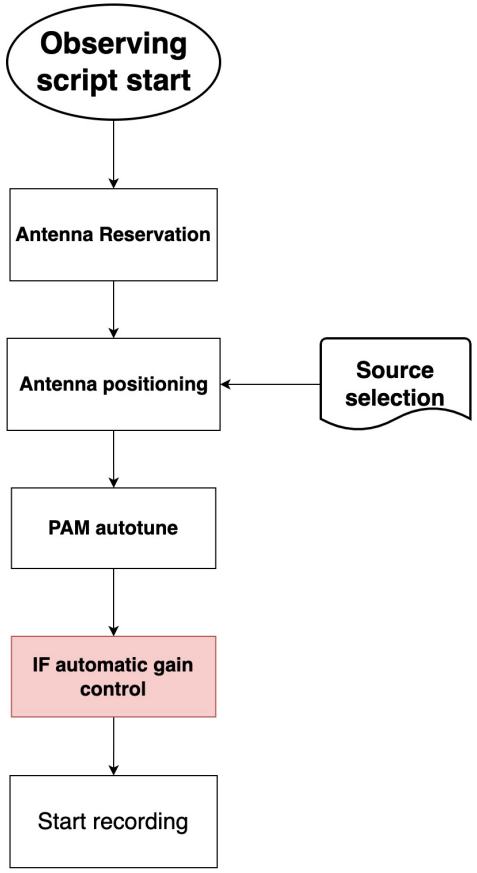
- FYI we are already doing SETI beamformer observations to test the system.

1st step | 2nd step | 3rd step | 4th step

Realtime Correlator



Realtime Beamformer



SETI Search