Visibilities in CASDA

- Bringing 34 years of ATCA and Parkes data into CASDA
- Migrating from Australia Telescope Online Archive (circa 2000)
- Metadata focused around scans
  - Frequency (+ num channels and chan width)
  - Target
  - Time – scan start/end, sampling rate
  - Beam
  - Front end, backend
  - Array config or telescopes for VLBI
  - Polarisation

Mapping ATNF Visibilities to ObsCore Extension

- Fields we have data for:
  - f_min, f_max
  - t_exp_min, t_exp_max, t_exp_mean
- Static per telescope
  - instrument_ant_number
  - instrument_ant_min_dist
  - instrument_ant_max_dist
  - instrument_ant_diameter
  - instrument_feed

- Potential mapping:
  - majAxis, minAxis -> s_fov_min, s_fov_max
  - minAxis/majAxis -> uv_distribution_ecc
- Not held in metadata
  - s_resolution_min, s_resolution_max
  - s_maximum_angular_scale
  - uv_distance_min, uv_distance_max
  - uv_distribution_fill
  - sky_scan_mode