

Execution Block Summary

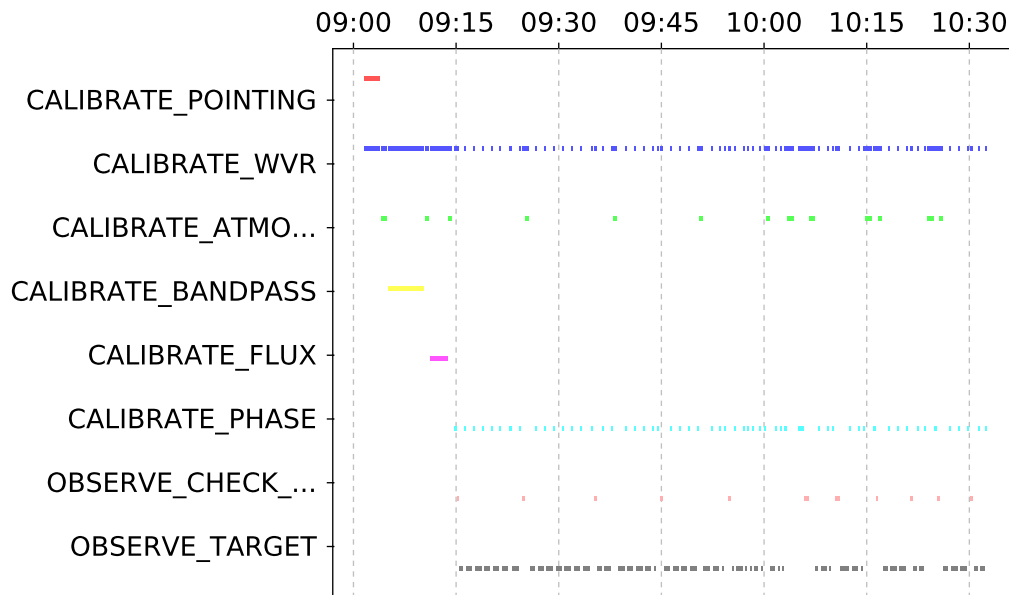
Project Code	2016.1.01164.S	SchedBlock	DK_Tau_a_06_TM1
ExecBlock	uid://A002/Xc40361/Xb33	ExecBlock Status	SUCCESS
QA0 Status	✓ Pass	Exec. Fraction	1.00
Repr. frequency	217.988 GHz (Sky)	Band	ALMA_RB_06
Array	12 [m]	Baselines	21m -- 3696m
Antennas	null		
Weather	PWV 1.51 mm; Wind 3.35 m/s; Humidity 20.84 %; Pressure 538.43 hPa; Phase rms: N/A microns		
QA0 comment	<p>Pass, although some scans/antennas towards the end of the observation is higher noise</p> <p>=== QA0 summary for id://A002/Xc40361/Xb33 ===</p> <p>Usable antennas: 44 using BLC</p> <p>Phase rms (Antenna,phaseCal): 34.5 deg (=124.7um)</p> <p>Baseline limit with good phase (80%): 2386m. Resolution: 0.112 arcsec</p> <p>PWV: 1.49 mm WVR improvement factor: 2.12</p> <p>Bandpass cal: J0510+1800 Approx. flux: 0.47 Jy SNR: 149.07 possible channels with SNR>30: 4</p> <p>Phase cal: J0435+2532 Approx. flux: 0.037 Jy SNR: 73.65</p> <p>Number of completed cycles of science/phaseCal: 56</p> <p>Fraction of all cal data to be flagged: 34.32 %</p> <p>Band observed: 6 Highest recommended: 7-7</p> <p>Major system issues:</p> <p>Antennas not considered usable & flagged: DV05 DV17</p> <p>DV05 is not fully integrated in Dashboard</p> <p>DV17: 55.7% of all cal data flagged</p> <p>Scan 109 12/45 antennas : Phase noise 10.7x MAD</p> <p>Scan 113 12/45 antennas : Phase noise 13.2x MAD</p> <p>Scan 117 17/45 antennas : Phase noise 15.8x MAD</p> <p>Scan 120 22/45 antennas : Phase noise 18.3x MAD Trx high spectral variation 0% of Trx</p> <p>Scan 122 18/45 antennas : Phase noise 14.5x MAD Trx high spectral variation 0% of Trx</p> <p>Scan 124 23/45 antennas : Phase noise 15.5x MAD</p> <p>Scan 128 23/45 antennas : Phase noise 15.3x MAD</p> <p>Scan 130 24/45 antennas : Phase noise 15.3x MAD Trx high spectral variation 0% of Trx</p> <p>Scan 132 24/45 antennas : Phase noise 15.9x MAD Trx high spectral variation 0% of Trx</p> <p>Scan 135 25/45 antennas : Phase noise 15.4x MAD</p> <p>Scan 137 24/45 antennas : Phase noise 15.1x MAD Trx high spectral variation 0% of Trx</p> <p>QA0 PASS</p> <p>no significant problems</p>		
QA0 warnings	<p>Achieved angular resolution is outside the expected range. Observed: 0.10, requested: 0.10 - 0.13</p> <p>Achieved maximum recoverable scale is more than 30% different to the values expected</p>		

Times on sources

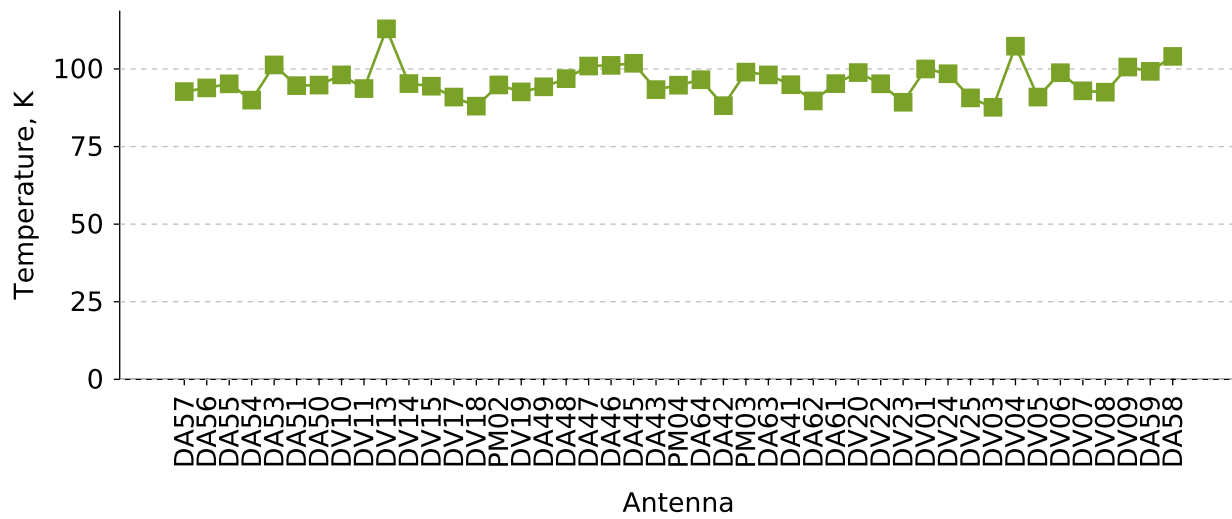
OBSERVE_TARGET (V409_Tau, DH_Tau, GI_Tau, HO_Tau, UZ_Tau, BP_Tau,	37.63min (37.77min expected)
CALIBRATE_ATMOSPHERE (J0426+2327, J0423-0120, DH_Tau, J0422+3058,	8.38min
CALIBRATE_BANDPASS (J0510+1800)	5.13min
CALIBRATE_FLUX (J0423-0120)	2.62min
CALIBRATE_PHASE (J0426+2327, J0422+3058, J0440+2728, J0435+2532)	16min
CALIBRATE_POINTING (J0510+1800)	2.33min
CALIBRATE_WVR (J0426+2327, J0429+2724, J0423-0120, DH_Tau,	38.97min
OBSERVE_CHECK_SOURCE (J0429+2724, J0426+2952, J0435+2532)	4.50min

Execution fraction

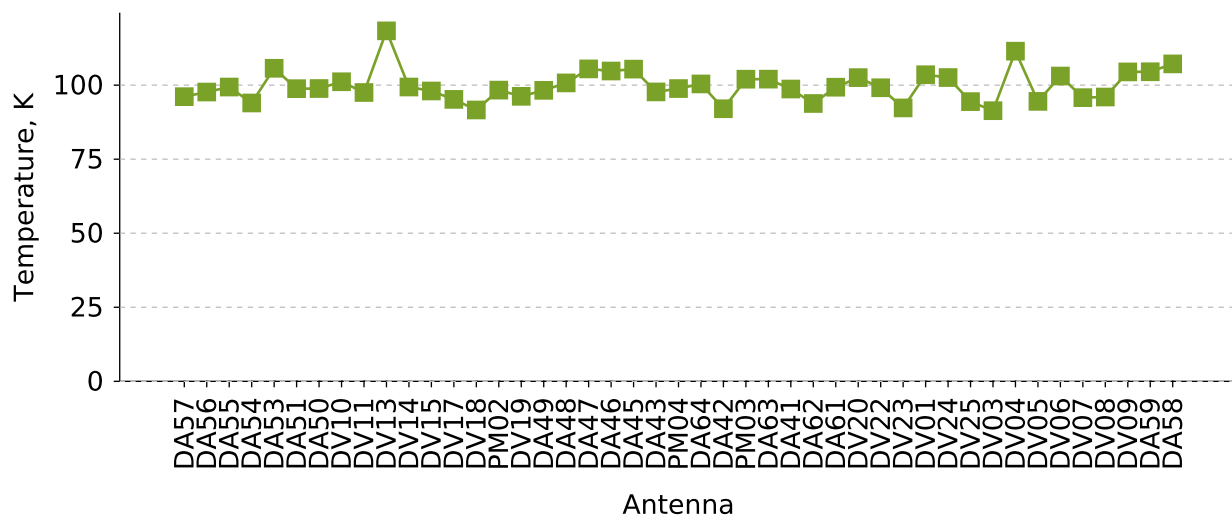
Scans diagramm



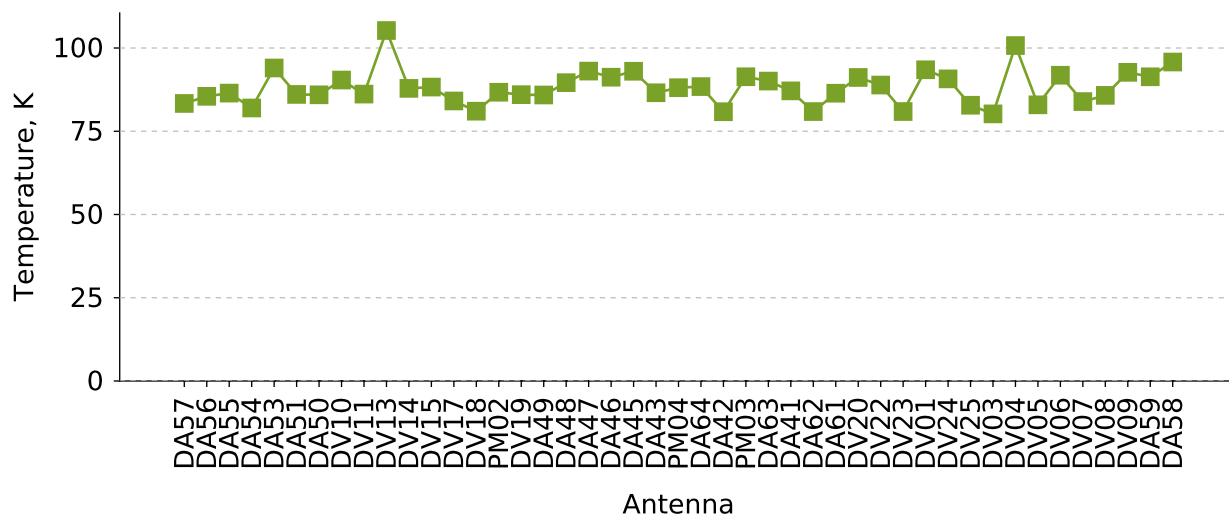
Source: DH_Tau



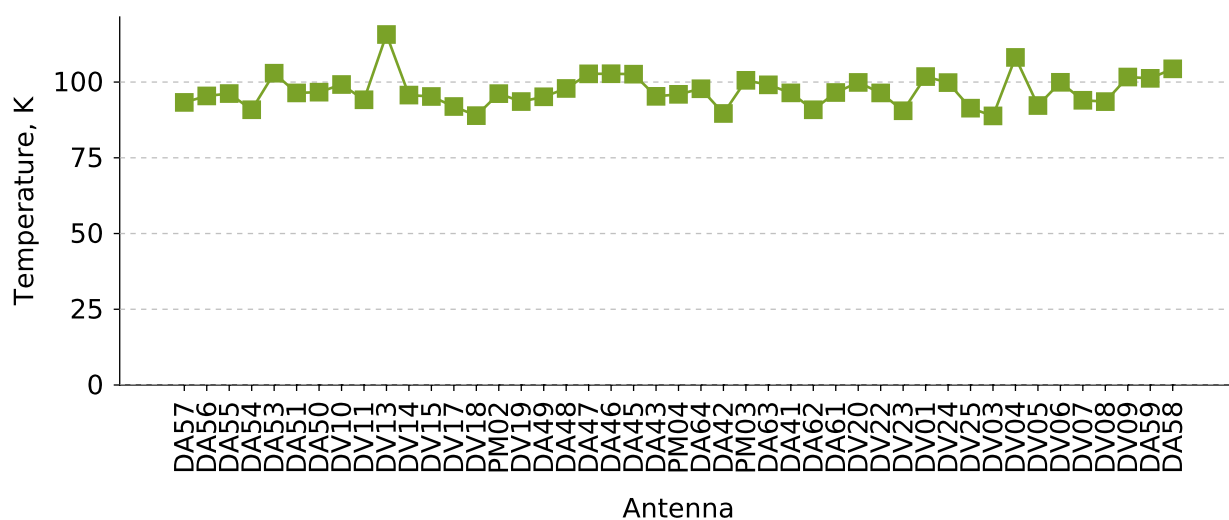
Source: J04223058



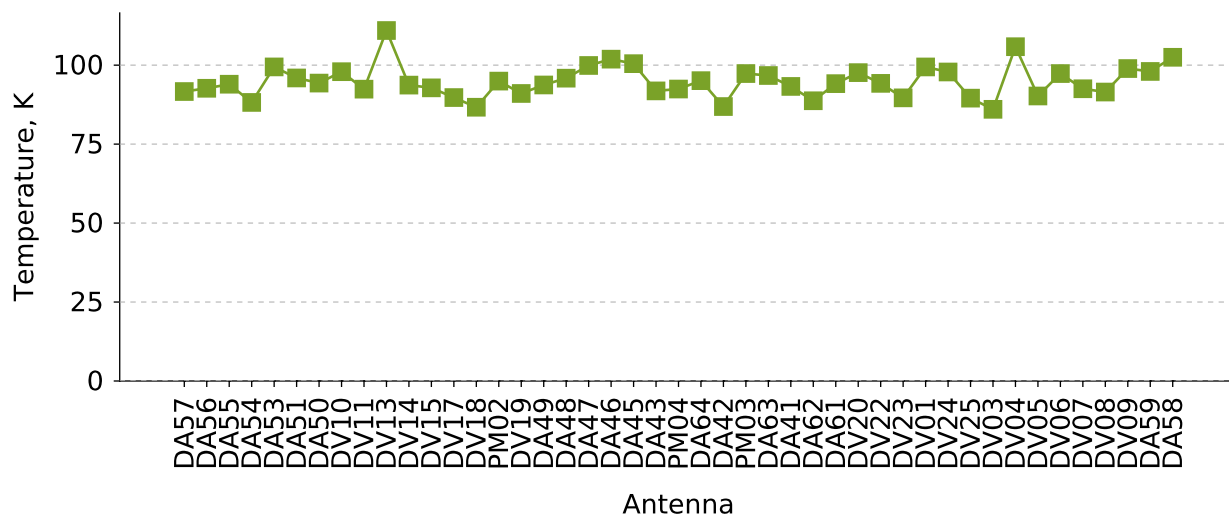
Source: J04230120



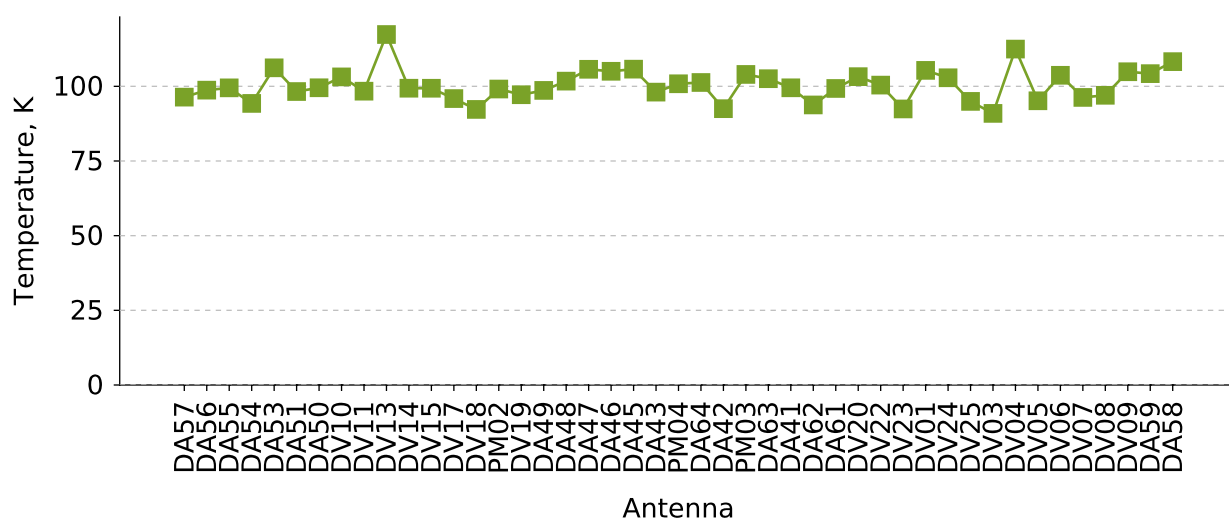
Source: BP_Tau



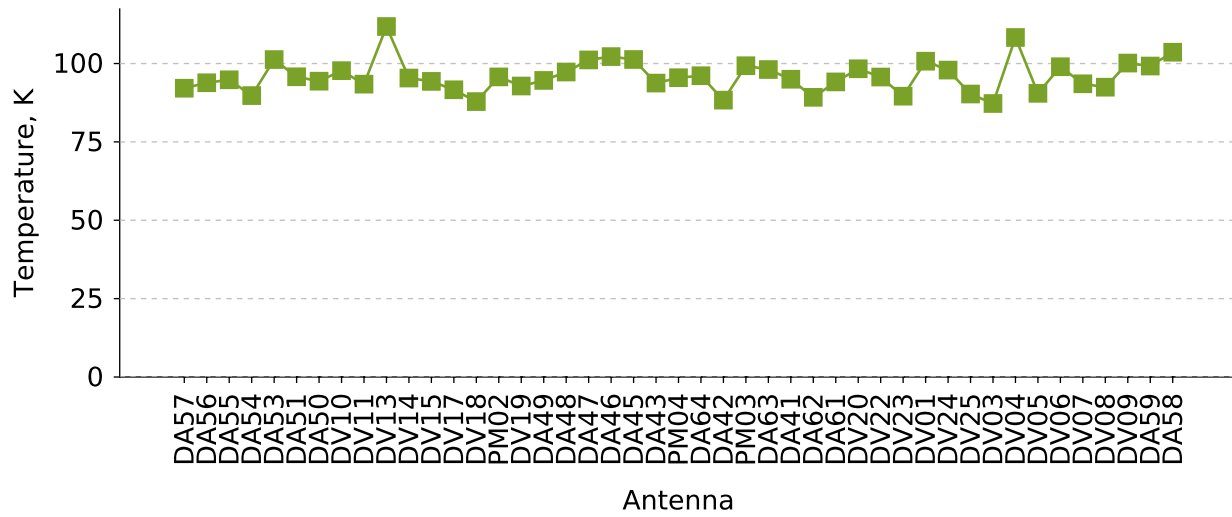
Source: IP_Tau



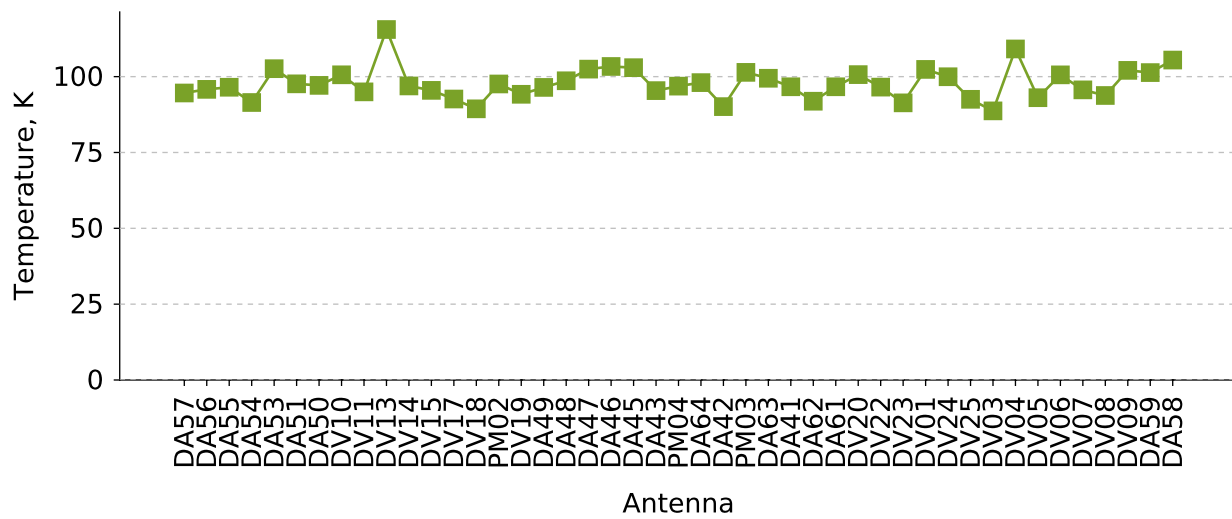
Source: J05101800



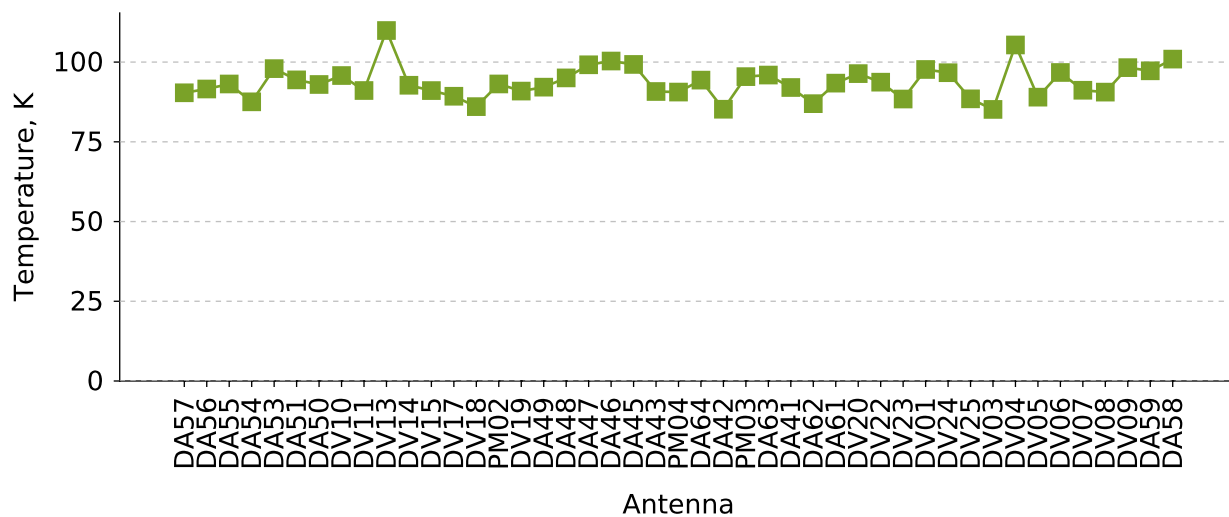
Source: HK_Tau



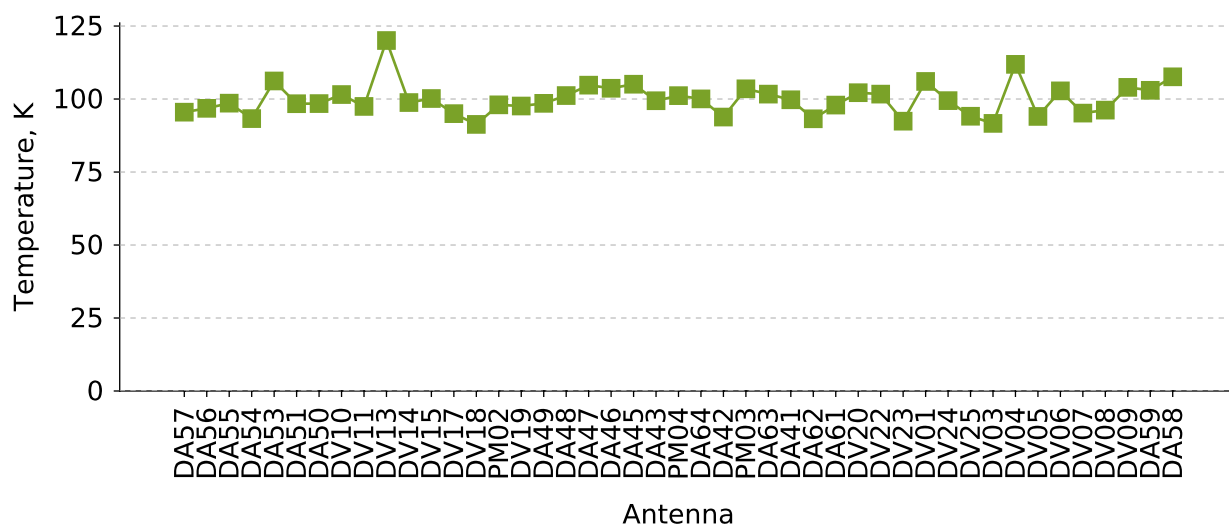
Source: J04402728



Source: J04352532

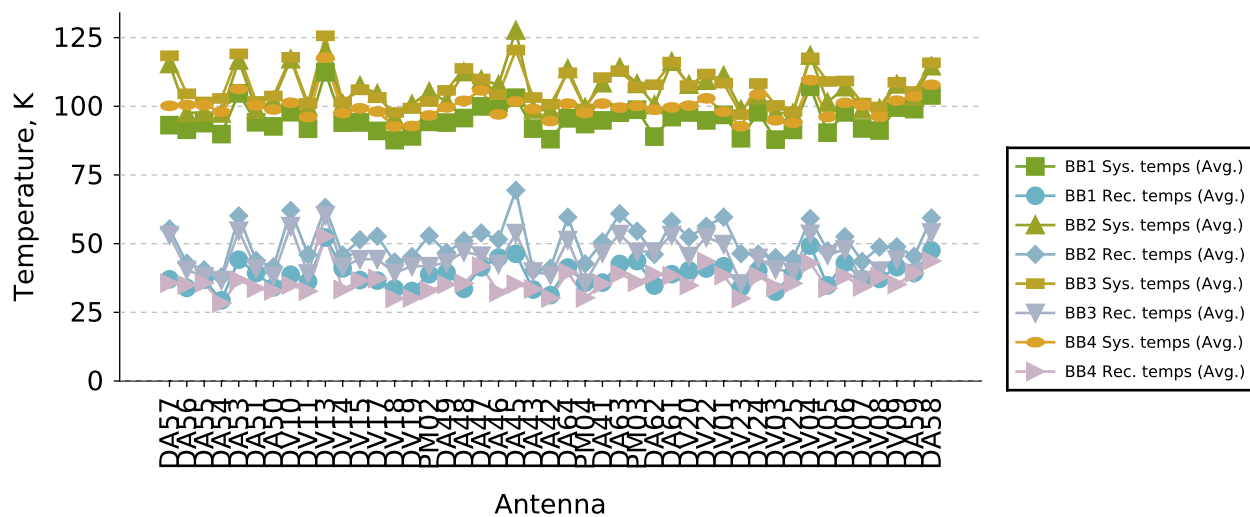


Source: J04262327

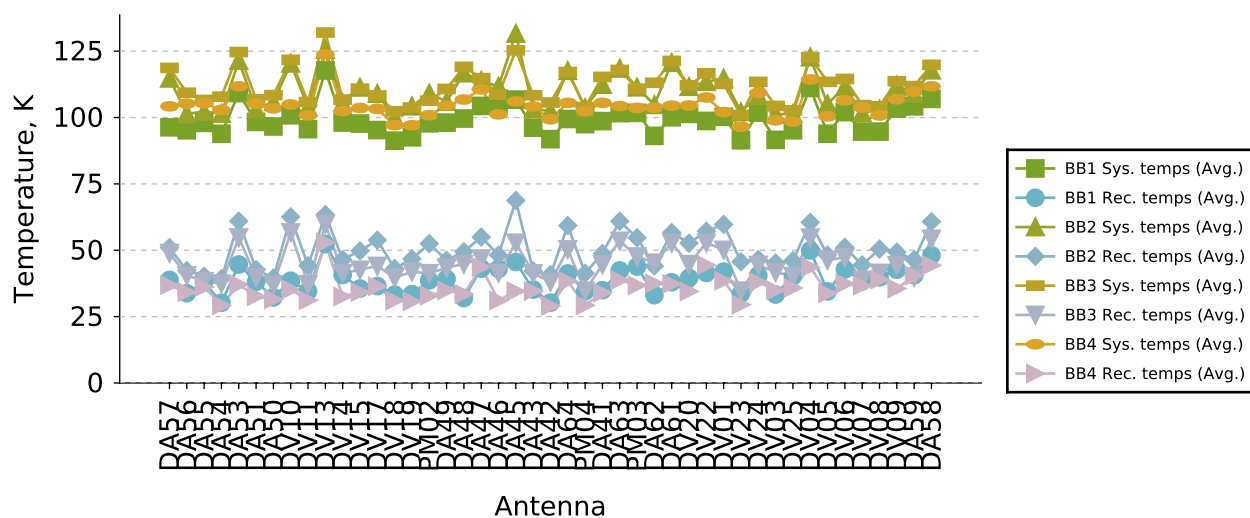


Atmosphere calibrations (all basebands)

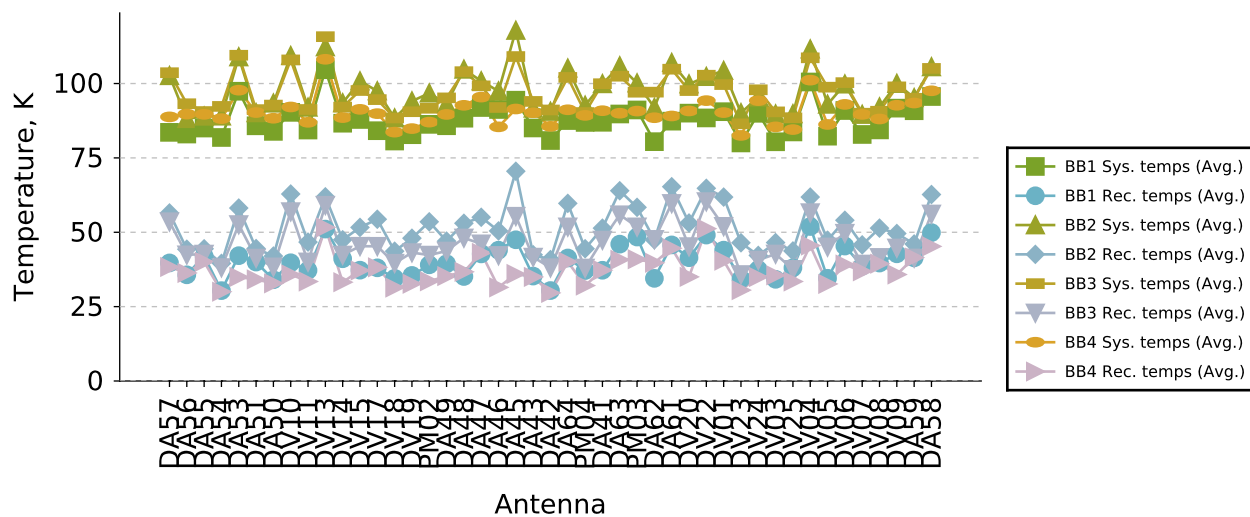
Source: DH_Tau



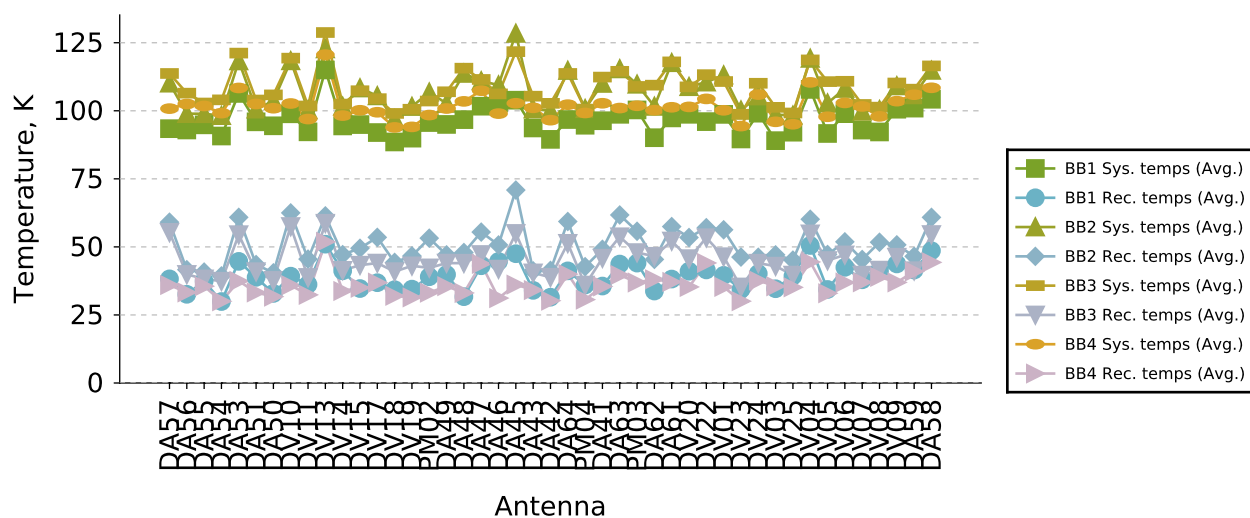
Source: J04223058



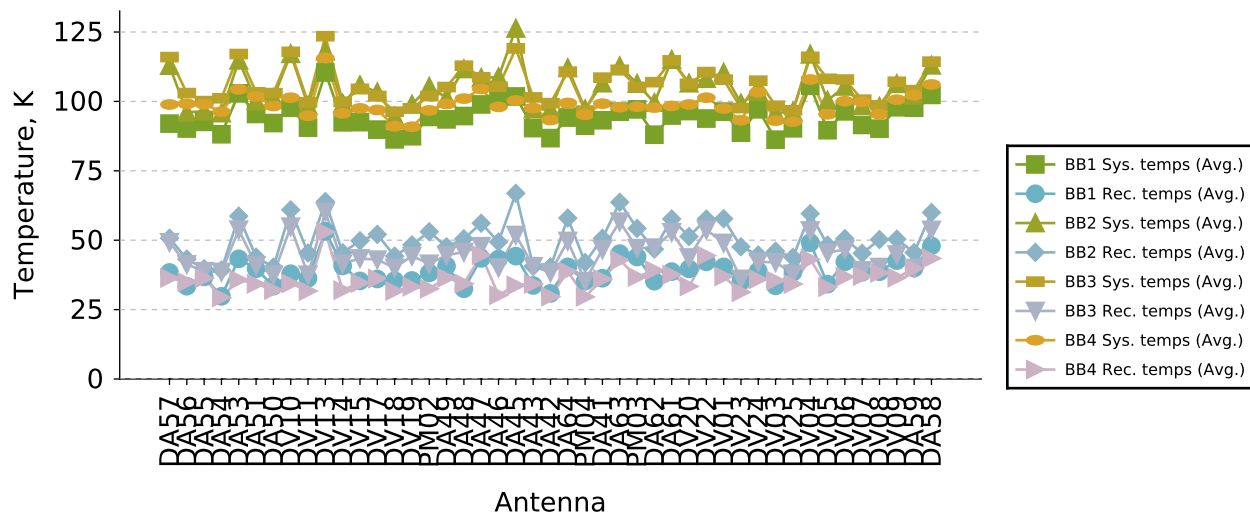
Source: J04230120



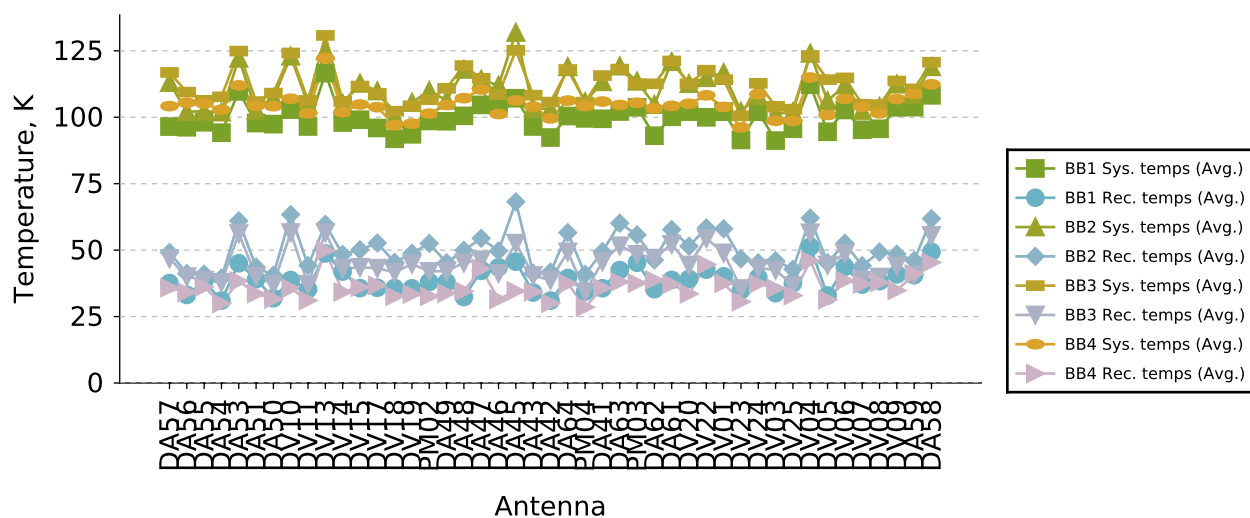
Source: BP_Tau



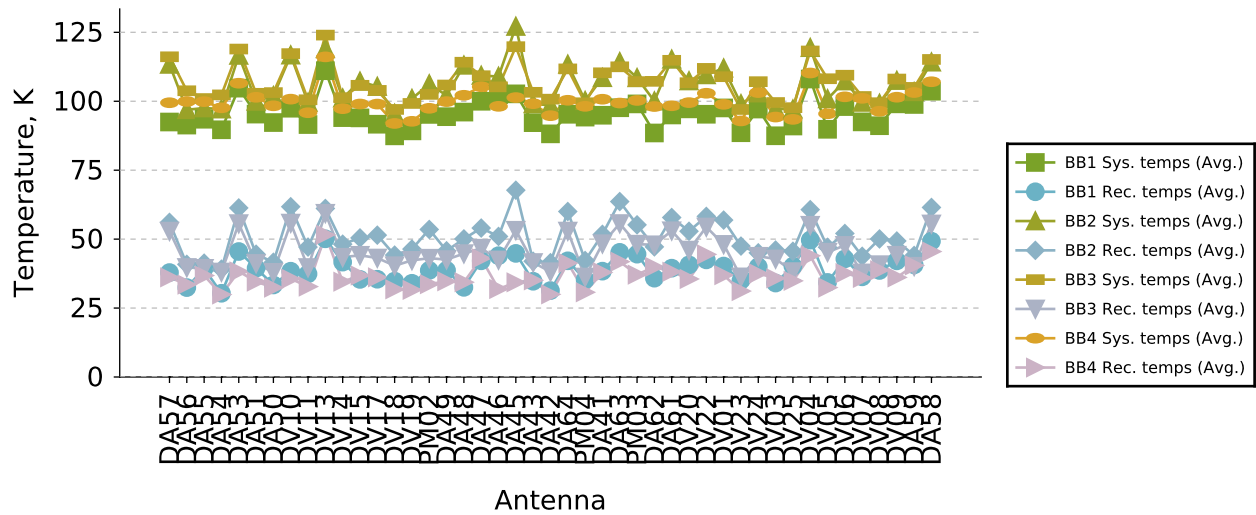
Source: IP_Tau



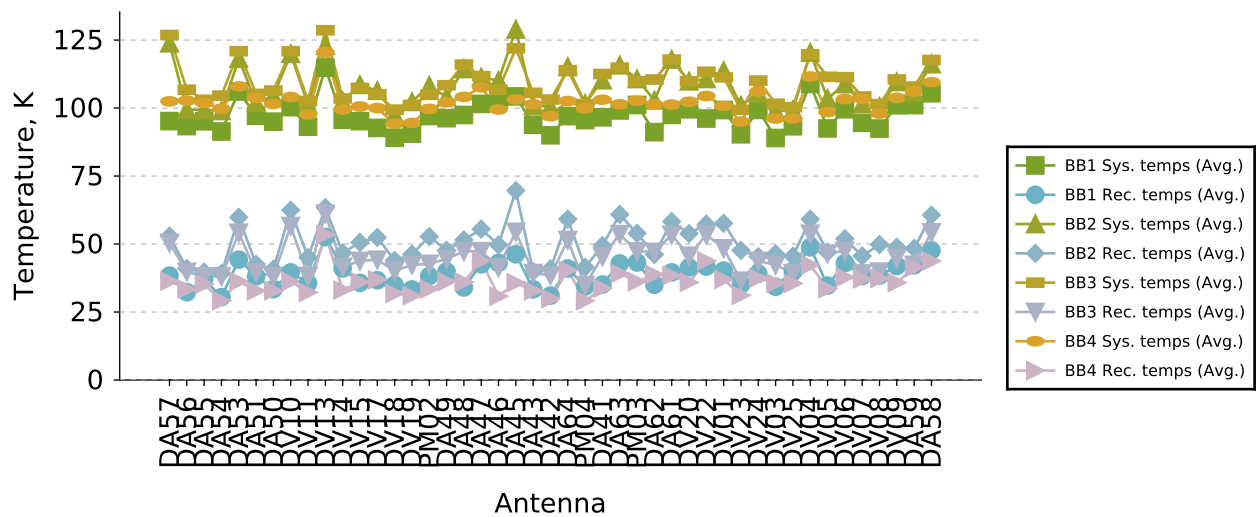
Source: J05101800



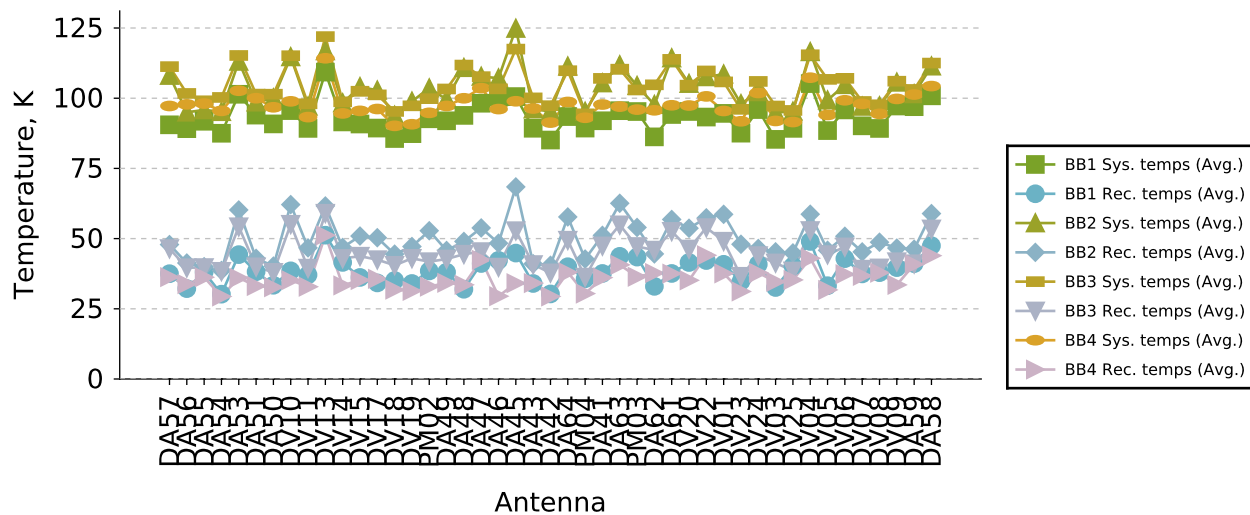
Source: HK_Tau



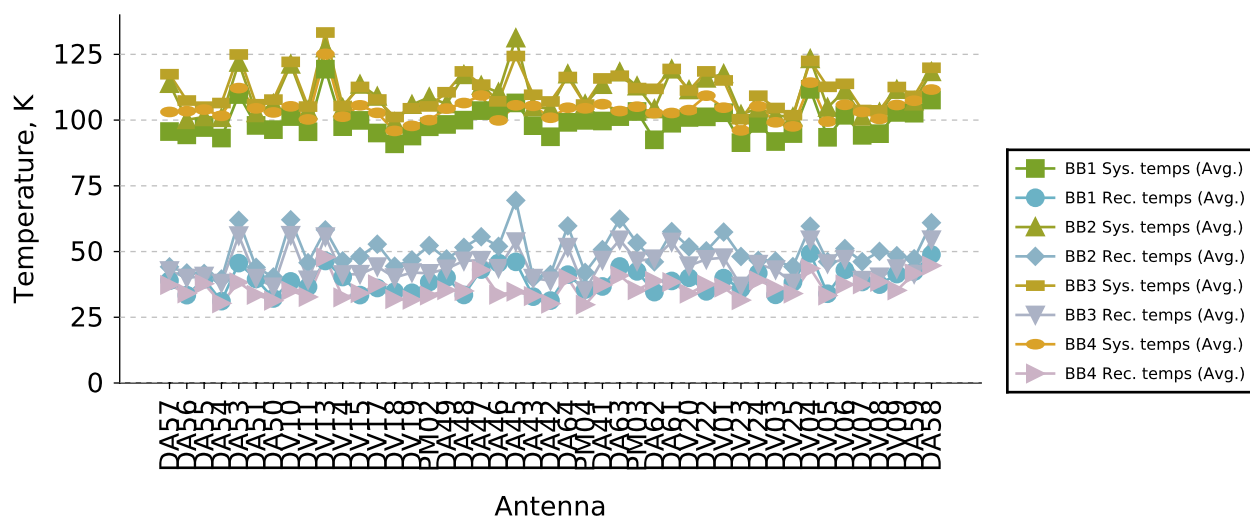
Source: J04402728



Source: J04352532

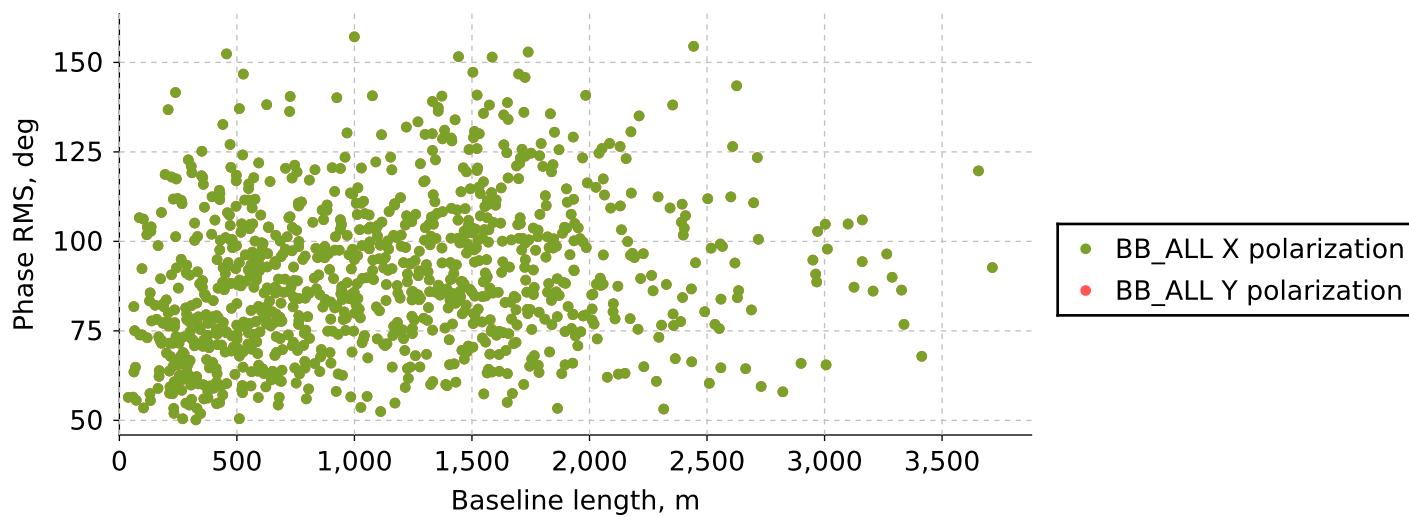


Source: J04262327

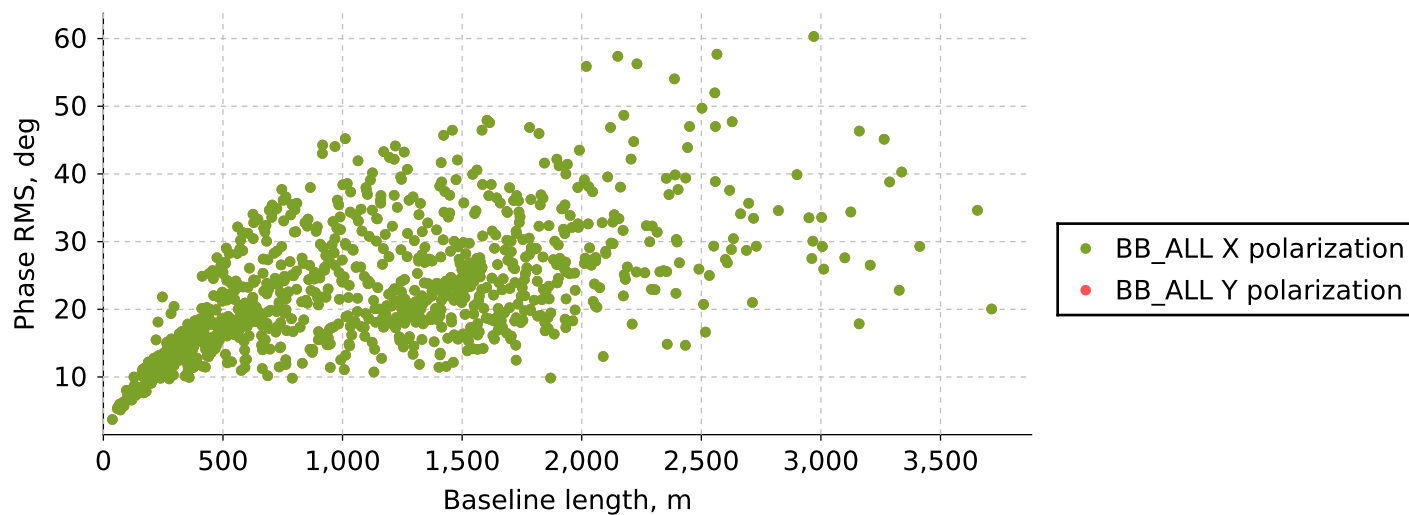


Phase RMS (baseline-based)

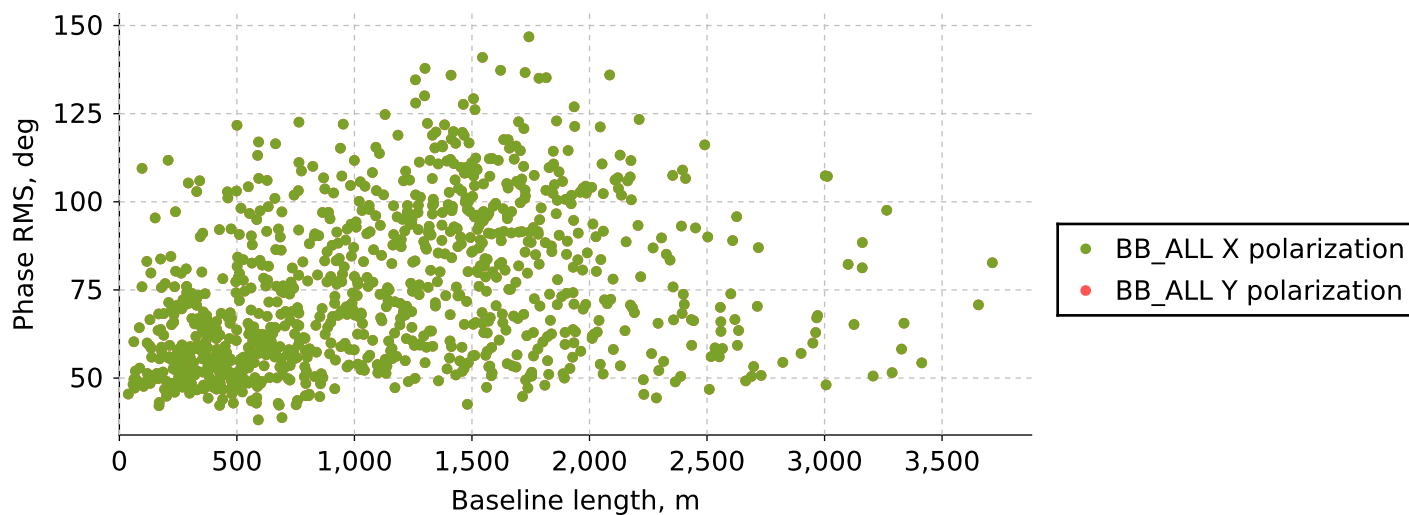
Source: J04223058



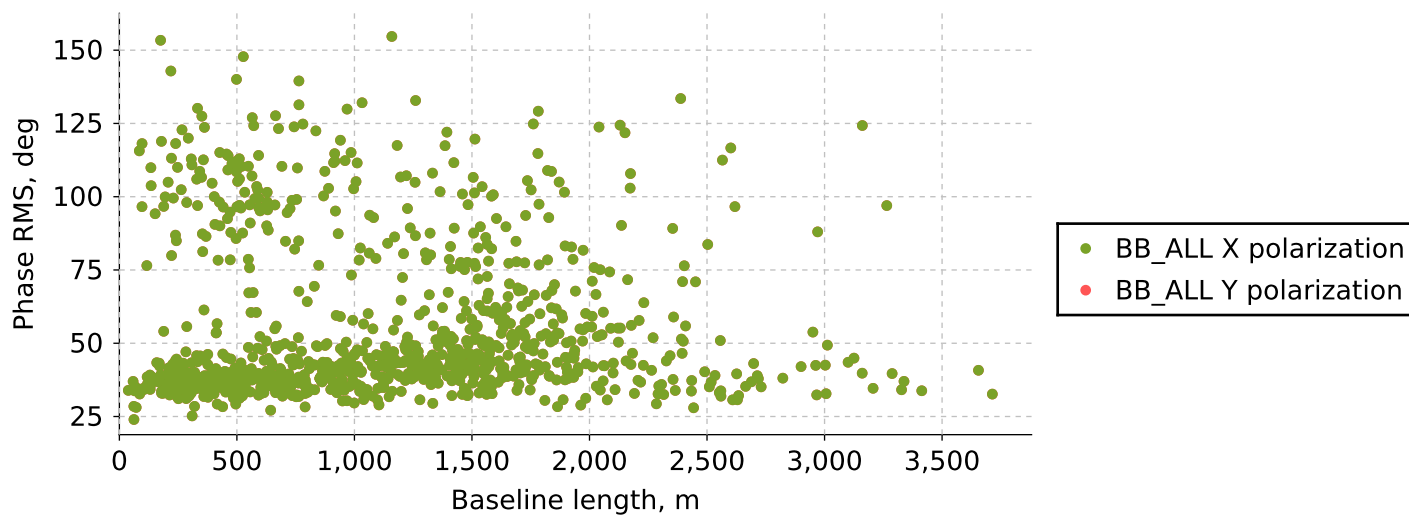
Source: J05101800



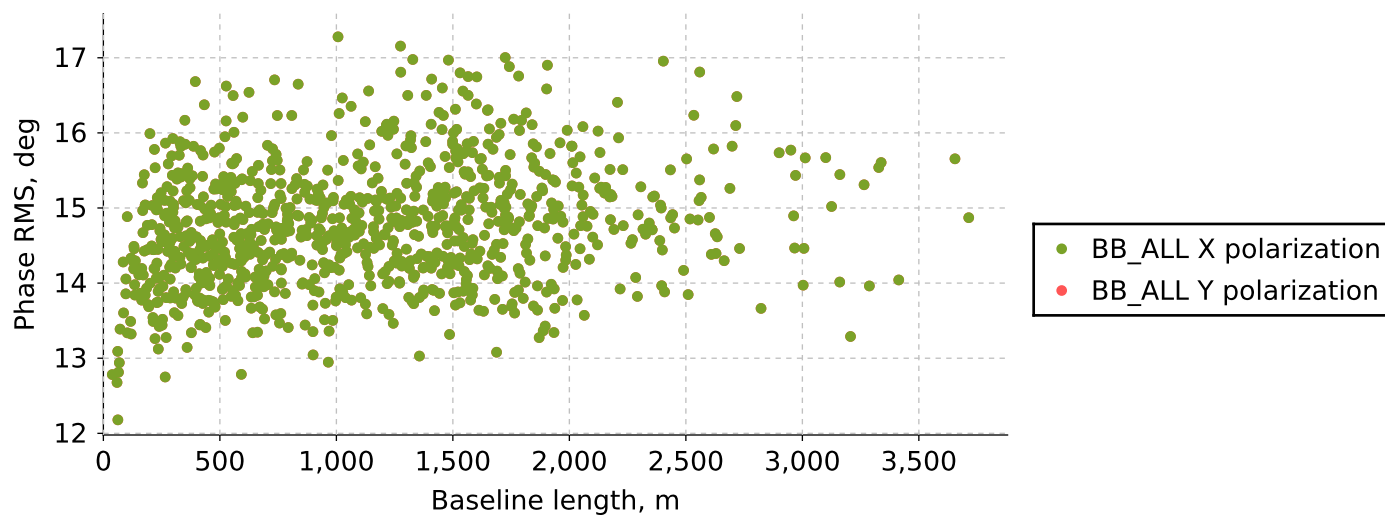
Source: J04402728



Source: J04352532

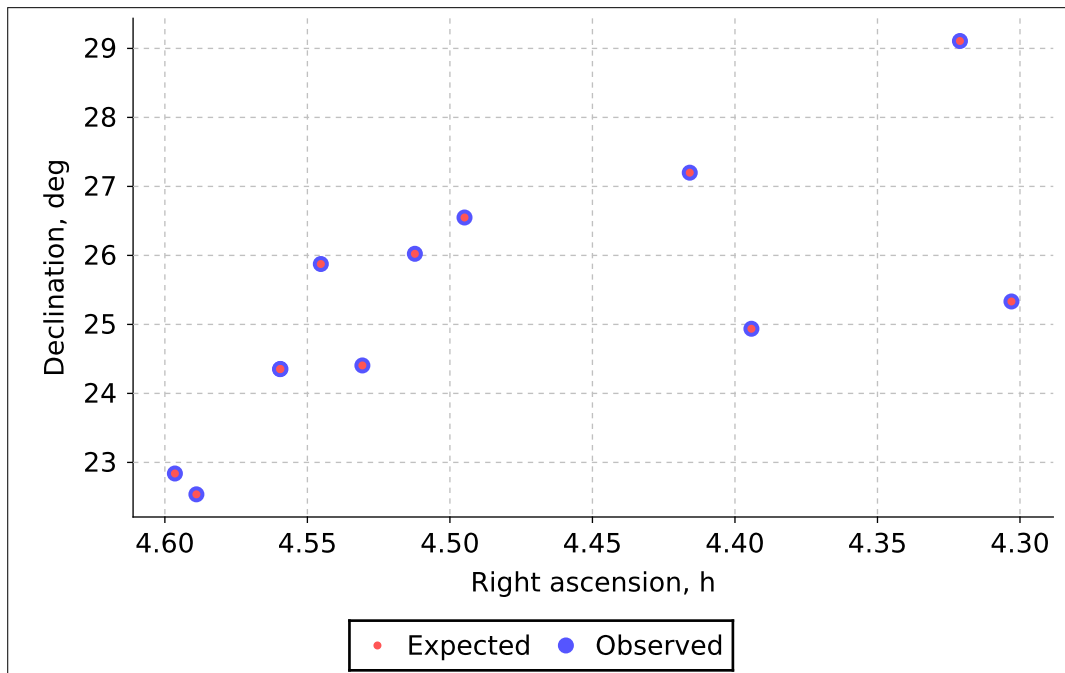


Source: J04262327



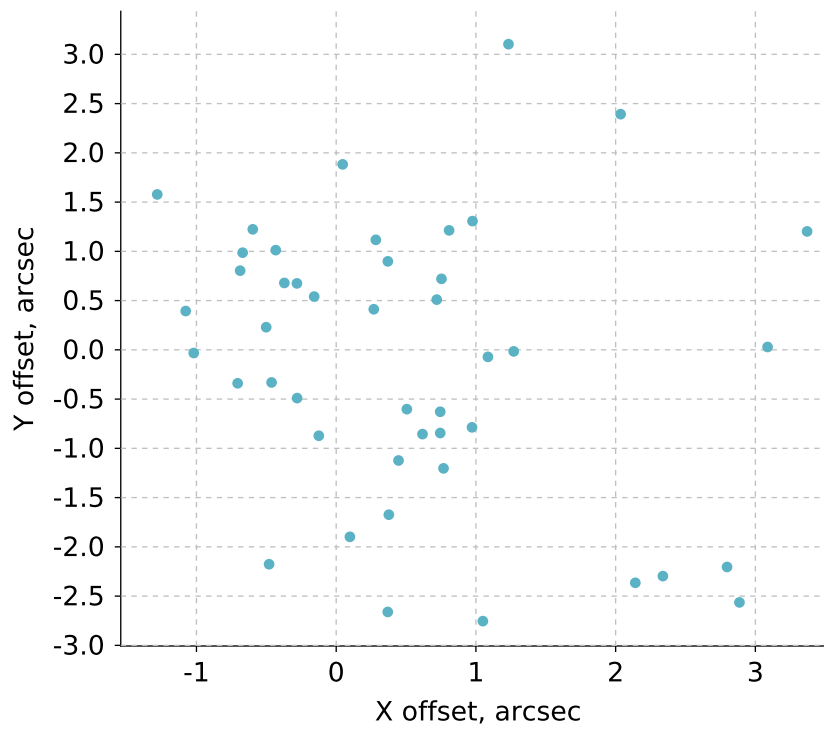
Corrected phase rms per baseline in-scan, in summed BB

Sources and coverage

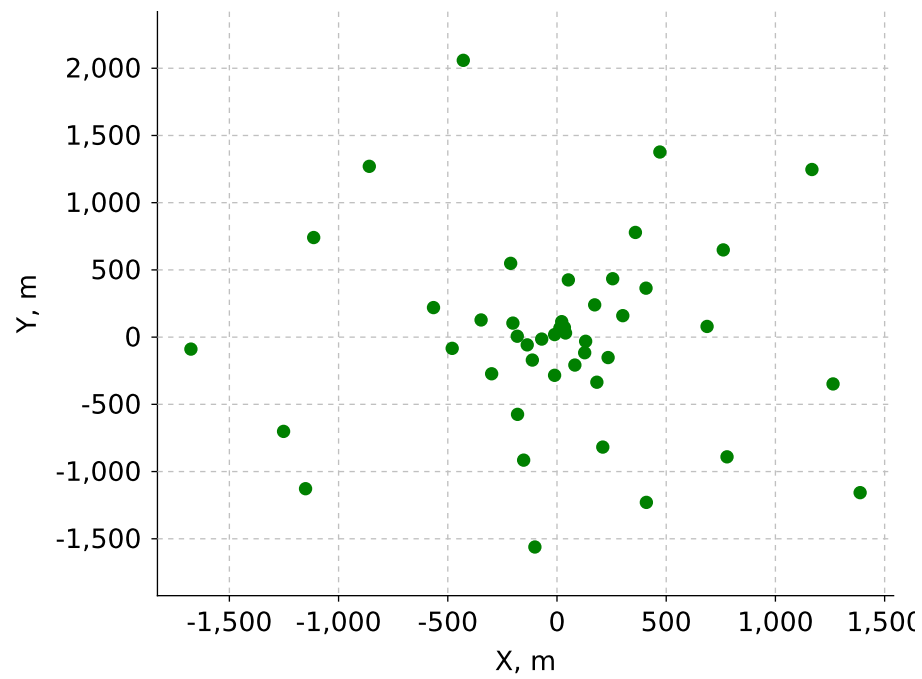


Pointing

Source: J05101800

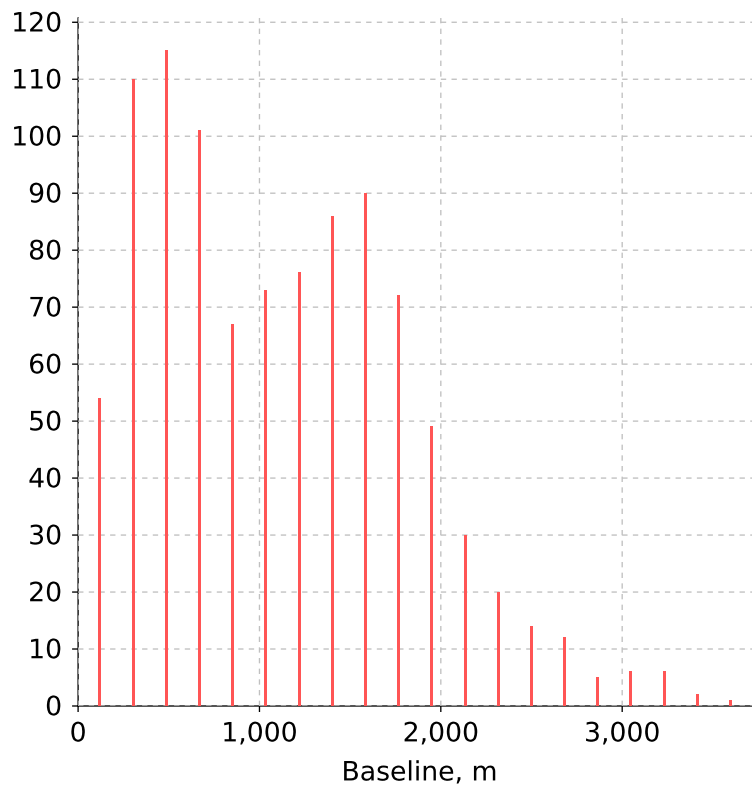


Antenna positions



- Completely flagged antennas
- Antennas with minor flagging
- Antennas with high phase
- Antenna positions

Baseline distribution



null