Minutes for AMiBA Telecon 20110929, UTC 2:00

Regular Meeting Time: UTC 2:00 Every Thursday	
USA Toll-Free 888-204-5987	Taiwan Toll-Free 00801-10-4304
Access code: 2151097	Host password: 6697

- General issue:
  - A CTI compressor overheated and burned out due to fan failure. It has been brought down for exam, especially why all protective switches didn't shutdown it.
  - The block heater and batteries of the emergency generator should be OK (need tests). The contract to the maintenance vendor however needs to be reconsidered.
- Operation on site:
  - Lab
    -
  - IF/LO & Rx status
    - Ant9 was successfully cooled down attached to the new compressor, but Ant10 has cold head noise again. The cold head needs purge to clean oil leakage from the burnt compressor.
    - The He decontamination works. Ant1 needs a new cold head.
    - Schedule routine warm-up & decontamination? How often?
    - Ant3's TP still overflowed?
  - Readout & Correlator
    - A script is needed to compare time diff between CCC, TCS and GPS.
  - Observations:
    - The CLASH sample 25 clusters is expected to complete b4 the end of 2012. Kyle estimated a cluster mass lower bound as 6E14 M_sun to be detected at 5σ. This will help decide a new sample (new science goals) beyond CLASH.
    - Finished the previous rpointing and switching to the blank sky test along with taking A2142, A2390 & A383 (need 2~3 weeks).
    - Paul suggested to regularly observe a calibrator during cluster observations in the purpose of checking the integration capability in a shorter period. A 300 mJy source should be able to reach 5σ in one 2-patch. There are about 300 such sources over the sky which can be added in each 0.5~1hr cluster obs, or be rpointing sources as well.
    - Repeating Jupiter radio-alignment measurements is on hold until all Rx are back online.
    - The current IT has not included the systematic misalignment to the East and the absolute pointing error.
- Dish , Mount, Pointing:
  - rpointing at DEC 31 & 32 deg (El max 77deg) have a RMS error < 0.35'. Some clusters don't have enough radio sources covering their tracks (A383?)
  - radio pointing: the increasing-with-hexpol error pattern should be real. (now IT corrections for all hexpols are the same.) The IT corrections follow the r-pointing error trends, but with a different amplitude making the r-pointing rms increase.
  - “stretch” the hexapod before obs might help on pointing deviation near the zenith.
  - Vertex todo: to install another logger to record HPC log file on next site trip.
- Platform, Deformation:
  - Strain-gauge data needs to be combined with pointing logs to see if there is difference between hexpol=0 and <5deg strategies.
  - The feasibility to use the laser-ranging technique? The technique can provide z-axis information.
  - Ask Vertex for codes to calculate the reacting force.
- Data Analysis & Science:
  - On-site data quality check (noise, planet S/N): a new MonPC may come in weeks. Operators will run the scripts every night. Kyle is instructing Sarah for the products.
  - Collaboration? AMiBA's follow-up to CLASH may at least one year. RCS candicates? DOCATA: discussion about adding a space frame on top of the platform to support larger dishes.
  - Hiroaki released his auto-flaggin pipeline, but there are some problems with Jupiter data. May proceed at least on the first 4 clusters calibrated by Saturn.
  - Phase/position moves are seen in Jupiter 2-patches (none in Saturn). Due to high-el?
  - Long baselines have higher fluxes. Related to non-flat vis in calibration? (not pure point source) Not critical so far until ultra-deep integration.

- Ant9 RR is often flagged out. Some baselines' noise weights are poor and we need to exam on this. The current weighting scheme is pursuing high S/N so with loss of efficiency.
- Proty will provide info from his pipeline for Sandor's uvfits generation, which is required in later Miriad analysis.

Cluster (till 11/10/04)	on-src time (min) in the past week	Total on-src time (min)	% of data analyzed
A1689		456	More than 80% data has been roughly looked by Kyle. Further detailed analysis tasks has not been distributed, of which the progress will be logged here.
MACS J2129.4		1326	
RXJ1347		393	
A2261		1344	
MS2137		2454	
RCS1447		975	
MACS J1931		1485	
A209		1485	
A2142	18	795	
A383	264	1167	
A2390	156	471	

- Beyond 13 element:
  - Platform modification
  - Calibration system

Traveling Schedule to Hilo: (current)

- Kyle, Sandor (for CSO)

Traveling Schedule to Hilo: (proposed)

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