Minutes for AMiBA Telecon 20111117, UTC 2:00

Regular Meeting Time: UTC 2:00 Every Thursday
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- General issue:
  - Power outage last Sat. The generator started this time and protected everything except CCC which is without a UPS. The contractor did some works on the fuel line, and the on-site team tests the generator every week.
  - CCC requires a UPS but it is inconvenient to use the control room's. A small portable one on the platform?
  - Pierre was concerned with the function of on-site UPS which should sustain computers from power outage. Request for UPS reading.
- Operation on site:
  - Lab
    -
  - IF/LO & Rx status
    - Compressor for Ant1, 9, 10 was turned off, probably due to overheat from the cooling fan failure. The fan is replaced and the Rx are cooling down.
    - Will service 2 compressors (#2, #5) for Ant5-8, 12, 13, starting from Thu.
  - Readout & Correlator
    - CCC's / partition is still full, but seems not to interfere the obs/ctrl software.
    - A script is needed to compare time diff between CCC, TCS and GPS.
  - Observations:
    - r-pointing: need about 4 or more nights to fill in the gap with radio sources.
    - r-pointing for El>70 modeling, and obs 2 radio sources (northern and southern) for 5 days for deformation model testing.
    - 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:
  - Considering to reset the high-El part in the current IT (alternative is offset obs.). The trusted region is El<75 deg, and Locutus will look into the interp. algorithm for the side effects of resetting.
  - Besides the pointing issue at high El, it is suspected that the western part has worse pointing than the eastern part of the sky. Victor shows at a region of Az~300 deg, El<40 deg the error is up to 0.8 arcmin. Need to be confirmed.
  - 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:
  - After corrections in Proty's pipeline, the r-pointing results seem similar (~<1') and the deformation fitting looks much improved.
  - DACOTA: requests for the preliminary 13-element images. Discussion about possible CO detecting using AMiBA W-band. We need some confidence before invest vast amount of obs. Time.
  - 2 papers (13-element upgrade+1 cluster, deformation) could be circulated by the end of this month.
  - Some users of Proty's pipeline didn't update to the latest mbtp address table, which also affects Victor's r-pointing results since June.
  - Need to check if the noise can be integrated down at the scale of all data. And cross-check with the optical images to examine the issue of better pointing at the eastern sky than the western.

- Radio sources calibrated by Jupiter are OK. So the Jupiter problem could be subtler. Spikes?
- 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.

Cluster (till 11/11/22)	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		795	
A383		2313	
A2390		1332	
MACS J0329		420	
MACS J0429		348	

- Beyond 13 element:
  - Platform modification
  - Calibration system

Traveling Schedule to Hilo: (current)

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Traveling Schedule to Hilo: (proposed)

- Johnson (mainly for SMA upgrade)

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