Minutes for AMiBA Telecon 20110721, UTC 2:00

Regular Meeting Time: UTC 2:00 Every Thursday
USA Dial-in = 1-877-505-6247; passcode 8339148 #; mod_code 2917771 #
Outside USA Dial-in = 1 630 693 3224

- General issue:
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- Operation on site:
  - Lab
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  - IF/LO & Rx status
    - Ant9 IF2 got a comparable fringe strength by adding 150ps to the delay. However, the delay should not have changed (the 9dB pad is put back).
    - Ant12 has an abnormal temperature. Warm up and cool it by the weekend.
    - Ant4 LL is weaker. Need to replace TP cards for Ant4 (zeros) & Ant1 (ch2, noisy, no sig); Ant3's TP overflowed.
  - Readout & Correlator
    - Ant10 has weak fringe => checked ribbon cables and andrew cables/connectors and now the power looks normal.
    - A script is needed to compare time diff between CCC, TCS and GPS.
  - Observations:
    - When CY returns on 7/26 there should be two teams for observation.
    - Plan to obs deep blank sky to seek the origin of spurious noises and be more confident of Kyle's pipeline.
    - Parallel r-pointing for adequate IT corrections at non-zero hexpols, along with the strain-gauge testing, if in bad weather. Try to figure out the discrepancy with hexpol=0 data.
    - The current IT has not included the systematic misalignment to the East and the absolute pointing error.
- Dish , Mount, Pointing:
  - mistakenly shimmed Ant12 to wrong direction. Has reshimmed it with the full corrent solution and the data is being examined.
  - 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 test: April run took different positions so could not be directly compared to the previous run (Sep. 2010). Ted will help look at the data.
  - 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:
  - A whole day tutorial for Kyle's pipeline was given by Kyle. Science team is getting familiar with the programs and should be able to take target assignment next week.
  - Collaboration? Sandor will present a conference summary. AMiBA's follow-up to CLASH may at least one year. RCS candicates?
  - A1689 maps: in visibility we found the longest 2 baselines have 10x lower weighting and spurious noise, which can't be easily detected in image (Kyle's current flagging scheme). Kyle will check how much influence there is in other targets, and may modify his pipeline to adopt visibility flagging.
  - Currently observing A1689, A2261, MACSJ2129, RXJ1347. Review the list every week.
  - Proty will provide info from his pipeline for Sandor's uvfits generation, which is required in later Miriad analysis.

- Beyond 13 element:
  - Platform modification
  - Calibration system

Traveling Schedule to Hilo: (current)

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Traveling Schedule to Hilo: (proposed)

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