Minutes for AMiBA Telecon 20100408, 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 site issue:
  - New fabric installation will be postponed to next year, buying some time for proper ordering for new fabric sheets.
- Operation on site:
  - Lab
    -
  - IF/LO & Rx status
    - Andrew cable replacement: TBD, depends on Johnson's progress.
    - Ant9, 11, 12 have IF/LO/cryogenic issues, causing no/weak corr. signal. Wait for Johnson's visit to address them.
    - Ant1 IF/LO seems working fine in the lab. ⇉ keep it running to see if it could reproduce the problem shown on the site.
    - Ant13 cold head was replaced. Looks cooling is ok.
    - Ant6 vacuum or cold head needs further attention.
  - Readout & Correlator
    - Baselines related to Ant1, 2, 10 have no signals on LL/RR. However the IF power from these rx going to the corr. boxes seem normal.
    - Some delays are larger than 10mm and it is better to tune after the 2nd section.
  - Observations:
    - Translation stage for the new 3 rx: mechanical part (for putting on top of dishes) should be made first.
    - Continue obs until Johnson's arrival, then 2 weeks for rx troubleshooting. After that 2 weeks obs/verification before CT's arrival.
    - More radio radioalignment for delay tuning and for at different El.
    - We need a plan for the off-axis observation.
- Dish, Mount & Platform:
  - Mount slewing (off-src) reported by Hiroaki was on jack 3. Keep watching this.
  - 2 strain gauge measurements could be conducted by next week.
  - Kyle reported loss of planet fluxes as a function of El, expected mainly from the platform deformation. ⇉ Combine with the photogrammetry z-displacements (at photogrammetry measured pointing) to see how much phase can be corrected.
  - Pointing error ~< 1' for planets data expects 2% ~ 3% attenuation in the primary beam, but we see 80% (60% at low-El) loss of reconstructed flux.
  - IT Cartesian interpolation reduces the scatter at high-El but comes with a singular point at the zenith: dAz at El=90 diverges.
  - The grid size of IT will be examined to see if IT carries enough small scale info for the recent pointing non-repeatability and reduces the double-interpolation uncertainties.
  - New OT (wide FOV) PO was placed. We have spare mounting parts in the lab.
  - Three replaced old encoders will be sent back to Vertex for evaluation next week.
  - Pointing jump @AZ=0 still indicates some mechanism problem.
  - Vertex todo: to install another logger to record HPC log file on next site trip.
- Data Analysis & Science:
  - Proty will provide info from his pipeline for Sandor's uvfits generation, which is required in later Miriad analysis.
- Other:
  - All-team-meeting actions:
    - To see the effect of deformation from radio data -> start with Moon-TP from alignment data.
    - How to improve data analysis turn around time? Solve bottleneck?

- 13 element:
  - Platform modification
    - Current plan to monitor platform deformation is to predict with FEA model and verify with photogrammetry (few tens of orientations), plus strain gauge monitoring.
  - Calibration system
    -

Traveling Schedule to Hilo: (current)

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Traveling Schedule to Hilo: (proposed)

- Johnson 4/19, for about 2 or 3 weeks
- CT (mid May)

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