Minutes for AMiBA Telecon 20100902, 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:
  - Plan to replace all network hubs with switches.
- Operation on site:
  - Lab
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  - IF/LO & Rx status
    - Ant1 to 11 were warmed up, due to a power glitch and off-switches on the new cold head distribution box.
    - A new ordered CTI compressor was received, as a spare (total 5 now).
    - Ant9 hot-cold load tests by tomorrow. Check obs data in parallel.
    - Ant4 had weak fringes. Checked IF2 and seemed OK. Will verify this by another drift-scan.
  - Readout & Correlator
    - Some delays are larger than 10mm and it is better to tune after the 2nd section.
  - Observations:
    - TS on ant 2 & 9. RR completed and continue for LL part.
    - 2 operators will be day crew for strain gauge measurement and site cleaning, etc. The night crew are going to finish the 2nd 500x5 pointing.
    - Want to try 2-patch optical tracking to isolate the discrepancy in modes of pointing (tracking vs. scattered).
    - More radio radioalignment for delay tuning and for at different El.
    - We need a plan for the off-axis observation.
- Dish , Mount, Pointing:
  - The split pointing seems to cause a `discontinuity' at the section transition (between nights). We then ask the operators to have 3 stars overlap in the following sections. The discontinuity in the previous IT could be corrected afterward.
  - Tracking with different hexpols by schedule scripts? Since hexpol-const always be 0 deg, and ACU only accepts skypol.
  - We may do multiple-DEC optical tracking (5 deg step) to provide samples for IT. Jump near the zenith (or across az-0?) implies overcorrection at high el?
  - Vertex todo: to install another logger to record HPC log file on next site trip.
- Platform, Deformation:
  - Multi-hexpol photogrammetry data (only one position) is being analyzed. Waiting for the 2nd 500x5 optical pointing data.
  - SVD only recovers ~98% Saturn flux even if the visibility amplitude set to 1 ⇉ to examine the amplitude error (from band smearing) with the geometrical delay.
  - Victor's model of deformation shows az/2 and az angular dependence: the latter (accounting for the 3-fold symmetry) due to 3 pairs of jacks? gravity?
  - FEA modeling: difficulties in the platform + jacks model to simulate all jacks at the same time.
  - Ask Vertex for codes to calculate the reacting force.
  - Suggest photogrammetry directly on a track of target positions, rather than a large scale survey. This is to verify how well is the phase correction of current approach, and how dense should it be.
- Data Analysis & Science:
  - Proty will provide info from his pipeline for Sandor's uvfits generation, which is required in later Miriad analysis.
- Other:
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- Beyond 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
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Traveling Schedule to Hilo: (current)

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Traveling Schedule to Hilo: (proposed)

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