Minutes for AMiBA Telecon 20100930, UTC 2:00

Regular Meeting Time: UTC 2:00 Every Thursday
USA Dial-in = 1-877-505-6247; passcode 8339148 #; mod_code 2917771 #
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- General site issue:
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- Operation on site:
  - Lab
    -
  - IF/LO & Rx status
    - Ant11 IF2 has weak fringes. The power from the 2nd section looks OK. Need more investigation (pin-switch?).
  - Readout & Correlator
    - CCC was found to have time async starting from May. It is probably due to ATDC or event generator problems. Check their connection and if ok then their signals
    - Ant10, 11, 13 have weak fringes in Sun scans.
    - Delay residual is not well consistent. Next to do radioalignments for fine-tuning.
  - Observations:
    - Done one night of the 3rd 500x5 optical pointing, 3 more to go.
    - Observed the strong calibrator Cas A last week, which could be used for deformation study. Data is being analyzed.
    - The database of target website was damaged (the server is back online).
    - Radioalignments of Saturn.
    - 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 beginning of one section (night). Later deeper look reveals there seem more than one night having the discontinuity. These sections seem to all start from the West.
  - 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:
  - Applied new parameters from vmodel based on new 500x5 pointing data to Jupiter. The flux recovery is not as good as hexpol=0 though corrections across diff. hexpols are similar.
  - The CCC time async does affect the analysis but in a way just to introduce larger scatters.
  - Victor may refine his model to incorporate factors of hexpols. The effects of split pointing or the hexpol rotation sequence also may need considered. We need to tell whether more photogrammetry survey is required or not.
  - Strain-gauge measurement has similar results as before. Need further comparison.
  - Multi-hexpol photogrammetry data is being analyzed. The saddle amplitude changes almost linearly within hexpol=+/- 20 deg, while the angle doesn't change much.
  - Ask Vertex for codes to calculate the reacting force.
- 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)

- Johnson, Patrick (Mid Oct)

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