Minutes for AMiBA Telecon 20101007, 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
    - Ant2 warmed up again. May need coldhead service? Examine when Johnson visits.
    - Ant11 IF2 has weak fringes. The power from the 2nd section looks OK. Need more investigation (pin-switch?).
  - Readout & Correlator
    - CCC time async (started from May) seems remedied after reconnect the connector. Taken some radioalignments for verification. Will include the sync check in operator's routines. A script is needed to compare time diff between CCC, TCS and GPS.
    - Ant10, 11, 13 have weak fringes in Sun scans.
  - Observations:
    - Will observe Crab or Jupiter with offsets in the first few nights. Then radioalignments and pointing. Test for a new IT with deformation corrections is planed.
    - Cross-talk measurements when Johnson and Patrick visit.
    - Want to try 2-patch optical tracking to isolate the discrepancy in modes of pointing (tracking vs. scattered).
- Dish , Mount, Pointing:
  - The split pointing seems to cause `discontinuities' at the beginning of some sections (nights). The 3rd run of 500x5, all starting from the east, still cannot avoid this problem (but with fewer biased stars).
  - 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:
  - Kyle reported the investigation of amplitude change (setting all phase=0, details in his blog entry). There is no strong technical motivation for reconfiguring to smaller dishes.
  - 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.
  - 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:
  - ACU touch screen went to black while ACU is still functional. The screen has been replaced and work now.

- 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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