Minutes for AMiBA Telecon 20100708, 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:
  - UPS of TCS failed. TCS plugs in MonitorPC's UPS now.
- Operation on site:
  - Lab
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  - IF/LO & Rx status
    - Small fringes on Ant9 both IFs, seems working after adjusted pads between mixer and IF/LO. Then tune the IF power to max the signal.
  - Readout & Correlator
    - Some delays are larger than 10mm and it is better to tune after the 2nd section.
  - Observations:
    - Michael will test the a_boss pointing sequence feature with on-site's help on 7/13.
    - Pointing: Continuous optical tracking at different DEC. More iterations on IT_500? The obs of IT_1K is postponed.
    - More radio radioalignment for delay tuning and for at different El.
    - We need a plan for the off-axis observation.
- Dish , Mount, Pointing:
  - The 2nd iteration of IT_500 shows the residual is slightly improved. Will double check the numbers of difference IT maps.
  - Continuous optical tracking around DEC~0 has a mean length error about 9''. This is for rapid sampling to see if the IT loses high order, small scale variations beyond 500 stars. But why is it much smaller than scattered pointing?
  - We are buying a new CCD.
  - Operators reported u-joint limit errors, which disappeared by the next day. Could be due to proximity of metallic mass to the sensors.
  - Upgrade CCDs to reduce the duration of pointing? The CCD driver will be the major issue, and the mount driving time would be the dominant factor of total duration.
  - Pointing jump @Az=0: will be tested by the new IT, by tracking a star across Az=0.
  - Vertex todo: to install another logger to record HPC log file on next site trip.
- Platform, Deformation:
  - More deformation data required for calibrators, as least to verify which region the data can improve the phase errors.
  - Does the dish track the same deformation as the platform surface?
  - 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.
  - Platform FEA: working on the 3D model; update the ProE license.
  - Patrick is integrating the latest PG data (tags on dishes) into the 7-element model.
- 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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