

Minutes for AMiBA Telecon 20110505, UTC 2:00

Regular Meeting Time: UTC 2:00 Every Thursday

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- General issue:
 - PC for analysis on the site?
 - Download data from the weather station regularly and put it on the Wiki.
- Operation on site:
 - Lab
 -
 - IF/LO & Rx status
 - Add another mini-LO on Ant11 (Apr. 28), need data to check for performance.
 - Ant9 has a poor Y-factor and large phase fluctuations (repeatable, not related to S/N) even after deformation correction; source of problem still unclear, could build a spare mixer?
 - Ant9 is still weak. Several thermal sensors are malfunctioned (a pressure gauge could be used as a simple check).
 - Readout & Correlator
 - 8R9R is missing again. Ant9 baselines and some of Ant7, 13 are usually flagged.
 - Installed the new PROM into the RR DAQ, 4 lags are back. The missing RR could be due to the improper FPGA firmware instead of the hardware.
 - List the baselines with large offsets?
 - A script is needed to compare time diff between CCC, TCS and GPS.
 - Observations:
 - The current IT has not included the systematic misalignment to the East and the absolute pointing error.
 - Discussion of opening the shelter earlier for stabilizing the system. 4 pm? 5 pm? Needs a procedure (ex. day crew help) for operators. The stability exam [Hiroaki] shows baselines stabilize after 9pm, consistent with the fact for the 7-element.
- Dish , Mount, Pointing:
 - Update on the 2nd radio pointing: new targets generally have smaller errors but low-el has rms $>\sim 1.5'$. The residual error ($<1'$) is not random but seems converging. Discarded $\sim 1/3$ snapshot due to unexpected vis. amplitude.
 - Radio-alignment: Kyle got a similar average error by taking Prot's values. More discussion to the different envelope and peak location.
 - Prot reports new radio-alignment results after the problem of Ant9 (incorrect shimming?) was solved. The new results (misalignment $<5'$) are consistent with those that had the Ant9 issue. There is an overall (HA-averaged) systematic tilt to the East which has not been included in the current IT.
 - Kyle and Prot compared the radio-alignment results and found some discrepancy. They have identified the difference in each approach, mainly the determination for transit time and the equations-solving technique.
 - "stretch" the hexapod before obs might help on pointing deviation near the zenith.
 - Vertex todo: to install another logger to record HPC log file on next site trip.
- Platform, Deformation:
 - Strain-gauge test: April run took different positions so could not be directly compared to the previous run (Sep. 2010). Ted will help look at the data.
 - Victor is trying to estimate the flux recovery in another approach by including the noise and discarding the phase Info rather than the amp. The later is agreed to under-estimate the recovery ratio.
 - The feasibility to use the laser-ranging technique? The technique can provide z-axis information.
 - Ask Vertex for codes to calculate the reacting force.
- Data Analysis & Science:
 - Prot will provide info from his pipeline for Sandor's uvfits generation, which is required in later Miriad analysis.
- Beyond 13 element:
 - Platform modification
 - Calibration system

Traveling Schedule to Hilo: (current)

- Traveling Schedule to Hilo: (proposed)

- Victor (5/7 - 6/10, delayed because of VISA)

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