Minutes for AMiBA Telecon 20111229, UTC 2:00

Regular Meeting Time: UTC 2:00 Every Thursday
USA Toll-Free 888-204-5987 Taiwan Toll-Free 00801-10-4304
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- General issue:
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- Operation on site:
  - Lab
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  - IF/LO & Rx status
    - Continue debugging Ant9 IF2. Existing small fringes indicate one LNA stage is damaged? (wait for Johnson's next visit, not urgent). Can check RMS first to determine its gain.
    - 11L12L, 11L13L are flat, probably related to readouts. The corr box needs to be lowered for exam.
  - Readout & Correlator
    - CCC's / partition is still full, but seems not to interfere the obs/ctrl software.
    - A script is needed to compare time diff between CCC, TCS and GPS.
  - Observations:
    - Day crew is on vacation leave; 2 teams for obs starts from Monday.
    - Done high-el reset-IT pointing. Analysis is ongoing.
    - Schedule one night of zenith blank sky in the following 4-night plan. [spikes]
    - Proty's research assistant can support Hilo observation after Chinese New Year.
    - Repeating Jupiter radio-alignment measurements is on hold until all Rx are back online.
    - The current IT has not included the systematic misalignment to the East and the absolute pointing error.
- Dish , Mount, Pointing:
  - Radio & optical image pointing comparison (Jupiter): check other dates for consistency, even at low-el.
  - radio pointing: the increasing-with-hexpol error pattern should be real. (now IT corrections for all hexpols are the same.) The IT corrections follow the r-pointing error trends, but with a different amplitude making the r-pointing rms increase.
  - “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 data needs to be combined with pointing logs to see if there is difference between hexpol=0 and <5deg strategies.
  - Ask Vertex for codes to calculate the reacting force.
- Data Analysis & Science:
  - Stacking 3 clusters visibilities (~30 hrs) from Proty's pipeline shows noise is integrated down until the signal emerges. Including weighting reduces the noise level, to 30mJy for 1hr integration.
  - Kyle updated his pipeline to handle the coherent spikes. The cluster flux decrements and noise properties stabilize but the peak of A383 & A2390 are 1' north away. However, with Hiroaki's autoflagging, the updated pipeline doesn't improve much, still no images (seen noise only) for data after September.
  - Ven reported an analysis of extended calibrator. Need to check the normalization and incorporate into the current pipelines.
  - Ant9 RR is often flagged out. Some baselines' noise weights are poor and we need to exam on this.

Cluster (till 2012/01/04)	on-src time (min) in the past week	Total on-src time (min)	
A1689		456	Hiroaki analyzed the first 8 clusters, see http://amibawiki.asiaa.sinica.edu.tw/index.php/Calibrated_Visibility
MACS J2129.4		1326	
RXJ1347		393	
A2261		1344	

MS2137		2454	
RCS1447		975	
MACS J1931		1485	
A209		1485	
A2142		795	Hiroaki, Proty's
A383	102	2799	working - Hiraoki, Proty's
A2390		1695	working - Hiroaki, Proty's
MACS J0329	72	1230	
MACS J0429	84	1266	
A611	168	1353	
MACS J1115	24	24	

- Beyond 13 element:
  - Platform modification
  - Calibration system

Traveling Schedule to Hilo: (current)

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Traveling Schedule to Hilo: (proposed)

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