Minutes for AMiBA Telecon 20130711, UTC 2:00

Regular Meeting Time: UTC 2:00 Every Thursday
USA Toll-Free 888-204-5987 Taiwan Toll-Free 00801-10-4304
Access code: 2151097 Host password: 6697

- General issue:
  - Shelter opens at 4pm, needs 1.5 hrs to stabilize the temperature (on platform). Will compare with the temperature inside the corr. boxes.
- Operation on site:
  - Lab
    - Rx5 is under fixing.
  - IF/LO & Rx status
    - Rx10 is cooled down.
    - Ant9 IF2 may have Mixer problem, waiting for Johnson come back to Hilo.IF1 is still working.
  - Readout & Correlator
    - Digital correlator is under testing.
    - New PROM chips are installed in LL & RR DAQ boxes. All baselines are affected. Noise spectra show 75% baselines are flat, while some have DC fluctuations, jumps (unlikely related to PROMs, not seen in Jan. Data). Noted spikes in 3R time-domain ⇒ T.O. data shows changing amplitude of spikes. [Hiroaki]
    - A script is needed to compare time diff between CCC, TCS and GPS.
  - Observations:
    - Due to the high temperature under shelter that interferes digital correlator operation, Peter will set up some fans to cool the atmosphere. The holes on the shelter will also be patched.
    - Grx monitor pc will be shipped back to Taipei.
    - Pierre suggests changing the absorber of the compressor every 6 months, and changing usb interface to RS422 to drive the ccd.
    - A1689? Using spare time for high S/N for shape, long baselines issues etc.
    - The current IT has not included the systematic misalignment to the East and the absolute pointing error.
- Dish , Mount, Pointing:
  - 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:
  - AMiBA backup server in Taipei is down now.
  - Victor doubt that the mount does not follow the IT when el >80 because his analysis of Jupiter pointing error does not present the feature of IT in this region. His results show a sudden jump of about 2~3 arcmin at el~80 in the eastern part of the sky.
  - Proty's student showed difference map of A383 with interleaved patches, needs cleaned map to make conclusion.
  - SZ spectrum fitting will process in UV space.
  - Paper strategy: publish one cluster by one; add more science & comparison for the single cluster..
  - Absolute flux calibration using weak sources: only a few existed in current catalogs.
  - J1115 flux 24±3 mJy; hasn't obtained reliable images for A1995 [Hiroaki].
  - J0717 [Kyle]: the 2nd half of data is not consistent with the 1st half; flux and peak location changes but not in the case of its r-companion. [Hiroaki] reports 45±5 mJy (all data) with noise higher than expected and changing with time.
  - Discussion on extended sources for verification of cluster sub-structure. Pairs? Virgo?
  - [Proty] A2142, A383, A2390 appear to have substructure. But they were observed in the same time period. ⇒ to compare A383 with Bolocam image.
  - Compare results w/ and w/o deformation corrections. It seems these corrections could correlate noise/signal, especially more apparent in low S/N targets.
  - Smearing seen in long integration of cluster (ex. A383, A2390). Deformation? Noise? Pointing (of El)? Longer-integrated radio sources didn't show this issue.

- Ant9 RR is often flagged out. Some baselines' noise weights are poor and we need to exam on this.

Cluster (till 2012/05/15)	on-src time (min) in the past week	Total on-src time (min)	
A1689	261	261	Hiroaki's analyzed visibilities see http://amibawiki.asiaa.sinica.edu.tw/index.php/Calibrated_Visibility Proty's team finished the analysis of these clusters with deformation corrections.
MACS J2129.4		1326	
RXJ1347		393	
A2261	165	165	
MS2137		2454	
RCS1447		975	
MACS J1931		1485	
A209		1485	
A2142		795	
A383		5961	
A2390			
MACS J0329		2280	Hiroaki
MACS J0429		3066	Hiroaki
A611		4470	Hiroaki, Proty's (Tai-an)
MACS J1115		4131	Hiroaki
A1995		4557	
MACS J0717		2508	Hiroaki
A2163		4581	
MACS J0744		1392	
MACS J1931		3186	
MACS J1206		1875	
Rxj2129		6432	
MACS J0647		2271	
MACS J1149		2760	
A954		2952	
A1423		2646	
MACS J1311		51	
RXJ1532		3675	
RXJ1347		1848	
MACSJ1720	219	2118	

MACSJ2129	357	1731	

- Beyond 13 element:
  - Platform modification
  - Calibration system

Traveling Schedule to Hilo: (current)

- July - Lucky, Peter

Traveling Schedule to Hilo: (proposed)

- Oct -

ASIAA Hawaii: http://pmo.asiaa.sinica.edu.tw/Hilo%20office/
AMiBA Website: http://amiba.asiaa.sinica.edu.tw/
Distribution List:
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