

## Minutes for AMiBA Engineering Telecom 20060914, UTC 1:00

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Regular Meeting Time: UTC 1:00 Every Thursday

Participants: Ted, CT, Johnson, Joshua, Pierre, Paul\_H, Michael\_K, Kyle, Keiichi, Eugene, Su-Wei, Patrick, Pablo, Peter, Locutus, Ven, Ken, Porty, MTC (Minutes)

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- **Upcoming Milestone**
  - **Oct. 3, 2006, AMiBA Dedication**
- The Current Issues:
  - (0913) Problem with OT images. Seemed off focus. Cause unknown. Patrick will adjust its primary focus.
  - (0913) CCD acquisition software was faulty. Unable to do pointing. Need Homin's help. Rather coincident with two problems occurred at the same time in optical system. Be aware of the system stability.
  - (0913) Vertex software confusion. We did not keep a good record on the old control software. Asked Patrick to make suggestion on the future backup procedures.
  - 1.2 M dish fabrication:
    - Weight inconsistency in FEA and prototype: Still not clear. Reducing layer would weaken the stiffness. Weight estimation on epoxy is at large.
    - Protection coating: Will experiment
    - Ted reported that Cotech was working on various measurement requested by us.
    - Schedule: Shipped to Hilo if Cotech could complete the required tasks.
    - Beam pattern measurement: Keiichi to find out how other did theirs, and what AMiBA really need. (For pushing the right front of our work.)
  - (0913) Noise from routing cable while hexapod moving. Bill Liu was inspecting the situation on site, although problem was not repeatable. Bware of this issue in the future.
  - Update: Protty reported first image of the AMiBA. Protty and Co. continued on planet imagine. Michael\_K suggested to work out some quantitative result from the data we took. Protty, Keiichi, and Kyle would make such happen.
  - Protty to provide more details on his data reduction on the Jupiter image.
- Site & Hilo Lab:
  - (0526) Vendor was working on an enclosure. Need a schedule.
    - (0504) emergency power generator (Pierre)
  - Few more tasks or issues need to be discussed or taken care of:
    - Transformer to be moved out of control room
    - Automate the weather station
    - A Site PA system (Over internet?)
    - Lighting protection. Enlist professional help.
    - Fabric replacement (Long term, but important.)
    - Supporting cone insulation?
    - Platform covers for drop-thru holes (CFRP, strong structure)?
    - A stair way up to the platform – might have to order an off-the-shelf model and modify it?
    - Crane?
- Calibration:
- RX/IF/LO:
- Data storage: Proposition of setting up on-site (MLO) storage and back up facility. Hardware acquisition.
- Software update: Done
- Major Issues:
  - (20060517) Large temperature variation in correlator. Major problem. Resolution to be investigated.
  - (20060507) DRO & receiver overnight stability. Got measurement. DRO over night seemed OK in both phase and amplitude. MT urged everyone to look into what were the realistic numbers we were after. Would come back to this issue again.
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- Intermittent Issues:
  - (20060504) ACU occasional crashes. Cause unknown. Reboot the machine would resolve the situation.

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## Traveling Schedule to Hilo

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ASIAA Hawaii: <http://pmo.asiaa.sinica.edu.tw/Hilo%20office/>

AMiBA Website: <http://amiba.asiaa.sinica.edu.tw/>

### Distribution List:

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