

Minutes for AMiBA Engineering Telecon

Meeting Date: 7-October-2004

Participants:

Australia:

USA: Derek, Kyle, Pierre, Johnson, Philippe, Ted, Jeff

Taiwan: C.T., Joshua, Homin, Steven, West, Patrick

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Minutes Recorder: C.T. Li

[previous weeks comments](#)

I. New Action Items:

II. Previous Action Items (still open):

III. Closed Action Items (as of this meeting):

IV. Miscellaneous Discussions:

MMIC:

Huei - Wisewave will finish the housing design by this week. We will fabricate them in Taiwan, and then send them with the MMICs to Wisewave for packaging.

Receiver:

Johnson - Receivers in Hilo are kept cold. There is still a large power difference (1.5dB) between phase switching.

Homin - Rx#4 is still cold and temperature logging is on going.

LO/IF:

Homin - Madani has tried the control voltage module (for variable gain amplifiers) using Windows software. He is converting the software into Linux.

Calibration System:

Kyle - I found some components to distribute the calibration signals at 13 GHz. The total cost is about 24,000 US dollars for 7 elements. Whether phase drifting of receivers and calibration system can be de-coupled by inspecting the phase closure is still a question.

Correlator:

C.T. - We're ready to ship one corr frame with components.

C.T. - Mark has finished all the wiring. We're going to power up the equipment for testing. We're also processing the shipping document.

Platform/Mount:

Philippe - The cone will be in Hilo on Oct. 11th. We will start the cone installation on 25th, which will last for about 2 weeks. The shelter should leave Florida tomorrow, and will arrive in Honolulu on Nov. 3rd. We can start the erection of the shelter right after the cone. We will try to do it within 10 days. We start the hexapod assembling on Nov. 2nd, with Vertex people. In the end of 2-week assembly, we will have the dummy ring (around the end of Nov.). Then cabling will follow. Testing of pointing with the dummy ring could be around Jan. 2005.

Philippe - The hexapod has arrived in Hilo. We plan to ship the drive cabinet up to MLO soon. The cone has been cleared off L.A. custom, and will arrive around Oct. 20th. It's necessary to keep the temperature above 7 degree C in order to cure the ground for the cone. Bob Romeo has started to work on the platform. The shipment of the platform is around early next year. Vertex is concerned with the installation of hexapod without the platform. We're thinking of a dummy ring to hold the hexapod. We need the shelter before hexapod installation.

Minutes for AMiBA Engineering Telecon

Ted - The shelter company needs to test the new design of fabric. The shelter should arrive in late Oct. or early Nov.

Dish:

Patrick - We did another beam pattern measurement on Thursday, still with the old dish. The purpose was to investigate the asymmetric. We used a cylinder to the feed-horn in the right position. The asymmetric is improved. The factor of one side lobe to the one on the other side is improved from more than 2 to about 1.2. The other part of asymmetric could be because we did vertical scans, the difference between sky and the building as the building might have some effect. We had the new 60-cm dish. But we don't have a chance to test it yet.

Site:

Pierre - We will install the drive cabinet and the transformer tomorrow afternoon. The cables from Helix may not fit our need due to the temperature and UV.

Homin - The cold head control box from Helix can not control each unit separately. We have to make it ourselves.

Pierre - The power distribution and network is final. I'll circulate them soon for comment. We're waiting for phone company to hook up the phone line.

Administration: