Minutes for AMiBA Telecon 20090219, UTC 2:00

Regular Meeting Time: UTC 2:00 Every Thursday
USA Dial-in = 1-877-505-6247; passcode 8339148 #; mod_code 2917771 #
Outside USA Dial-in = 1 630 693 3224

- General site issue:
  - Though not a serious problem yet, Pierre suggested installing a chimney on shelter to improve electronics cooling. Will let Pablo decide.
  - MT will ask Kevin to check the load limit for the access platform. 600kg is recommended.
  - OT2 needs to be tested after dish installation. A new bracket is being made in the machine shop. (Tashun) Ted will also send the design to Pablo.
- Testing on site:
  - Lab
    -
  - Rx status
    - Pablo reported some problems with compressor (N1) or cold heads related to Ant1,5,6. Those lines will be purged and compressor swapped with N5 (newest).
    - New sleeves for rx are being made.
  - Correlator
    - Corr PC needs to be relocated to make room for Rx 11, 12, 13.
    - Tashun will install one set of lift to corr box in early Mar.
    - Pierre/CT is planning to add one more readout channel on each RO board (from 16 to 17) to log temperature sensor. It may help temperature regulation later.
    - RPFITS testing can proceed. We will need new conversion software.
    - 6R7R stability is similar to other baselines, but more data is needed.
  - IF/LO power:
    - Johnson/SW is going to repair the DRO low output issue and add support for calibration system.
    - IF level and count is being checked. Will also do some lab testing.
    - Ant1 AGC never converges.
  - DC offset:
    - Kyle to investigate whether <1k count offset improves data quality. (lower priority)
  - Observations:
    - Part of the TS measurements were done. Sun fringe for delay will be done when there is a chance.
    - Proty is helping the Hilo team to use radio alignment code and is joinging the observation next week.
    - Expect CMB result by end of September.
- Mount:
  - PK will guide obs team to modify a file on the flash card for ACU 2.6.6.
  - Vertex todo: to install another logger to record HPC log file on next site trip.
- Other:
  - Ted plans to put many reflective targets on 1.2m dishes for photogrammetry. Tentative schedule is April.
  - We should have a meeting about sciences for 1.2m dishes.

- 13 element:
  - Rx
    - We will get a new batch of LNA packaged by JPL.
    - Johnson expect to ship out Rx11 at end of Feb, along with the prototype calibration system and other things.
    - Rx11 to be installed in Mar, and Rx12, 13 in July.
    - 10 pcs of mixer are being bonded. They can be tested next week.
  - IF/LO
    - Mao-Hsin will brief us on the mini-IF/LO next Wednesday (Feb/25).
    - Module #11 will be assembled at end of Mar, and ship out in Apr. #12 and #13 will be assembled in June.
  - RO and correlator
    - Done.
  - 1.2m dish
    - We will ship one more dish to Taipei for beam pattern measurement.
    - 1.2m dish surface sample has good RF reflection but uses a different substrate.

Further verification with the dish is needed.
        - Cross-talk will be measured on-site. Need some preparation work (PK?)
        - No news about the near field measurement of 1.2m dish.
    - Platform modification
        - Had a PDR with Cotech this Monday. Written report will come later. Deformation is not within spec at extreme positions.
    - Calibration system
        - Prototype will be installed on-site early Mar.

Traveling Schedule to Hilo: (current)

- none

Traveling Schedule to Hilo: (proposed)

- Ven / Obs. : mid-Feb to mid-Mar
- Johnson, Wei-Ting, Tashun / work : early Mar to ??

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