

First VLBI2010 Working Meeting

—Agenda (Draft)—

Location: MIT Haystack Observatory
Date: September 15, 2006

- 07:30** Transfer from Sheraton to Haystack (meet in lobby of Sheraton)
- 08:00–08:30** Breakfast
- 08:30–10:20** **Session 1: a) Goals of Meeting**
- Welcome and statement of goals (Arthur, 10 min)
 - Description of broadband delay and SNR requirements (Bill, 10 min)
 - Questions and comments (all, 10 min)
- Session 1: b) Simulations**
- Simulations at GSFC (Dan, 10 min)
 - Simulations at Vienna (Harald, 10 min)
 - General Aspects (Arthur, 10 min)
 - Discussion (all, 50 min)
- 10:20–10:50** Coffee break
- 10:50–12:30** **Session 2: Source Structure, Schedules, and Multiple Antennas**
- UV coverage of new high density schedules (Toni Searle, 10 min)
 - Source structure corrections: useful or not (Patrick Charlot, 10 min)
 - How much does source structure degrade "broadband delay" (Patrick Charlot, 10 min)
 - Effect of selected source structure examples on "broadband delay" determination (Arthur/Bill, 10 min)
 - The case for or against multiple antennas (Bill, 10 min)
 - Discussion (all, 50 min)
- 12:30–13:30** Lunch
- 13:30–15:30** **Session 3: Electronics**
- Broadband (e.g. Kildal) feeds and related issues (Brian, 10 min)
 - Polarization issues (Brian, 10min)
 - Linearity and stability of electronics/cables (Brian, 10 min)
 - Calibration issues for broadband delay (Alan Rogers/Brian, 10 min)
 - Absolute pcal (Tom Clark, 10 min)
 - Will Moore's Law with respect to data sampling/record/transmission continue hold into the future? (Koyama-san, 10 min; Alan Whitney, 10 min)
 - Discussion (all, 50 min)

15:30–16:00 Coffee break**16:00–18:00 Session 4: Troposphere, RFI, and EVN Plans**

- Troposphere and WVR prospects
(Arthur, 10 min)
(Alan Rogers, 10 min)
(all, 20 min)
- RFI
How bad is it? (Tom Clark, 10 min; Gino, 10 min)
RFI reduction approaches (Bill, 10 min; Gino, 10 min)
Discussion (all, 30 min)
- EVN Upgrade (Mike Garrett, 10 min)

18:00–19:30 Dinner**19:30–21:30 Session 5: General Discussion**

- Do we know enough to specify the VLBI2010 antenna? (all, 30 min)
- Is 1mm precision possible? (all, 30 min)
- What should be the next focus of the V2C? (all, 60 min)
 - ~ troposphere/WVR
 - ~ source structure corrections
 - ~ mechanical/geological stability
 - ~ electronic stability
 - ~ loading models
 - ~ network configuration, new antennas
 - ~ transition plan
 - ~ funding
 - ~ prototyping
 - ~ who's building the vlbi2010 correlator?

21:30–... Sheraton Hotel Bar