

GMU Science Meeting agenda

Day 1 (30th October)

EIS issues

Instrument

- **09:00 – 09:50 Performance**
 - Final decision on numbers
 - Photometric Calibration [CMK]
 - Resolution
 - X and Y [PRY]
 - Spectral [CB]
 - Time-dependence since launch
 - Sensitivity degradation [JTM]
 - Results of other regular monitoring [LKH]

- **09:50 – 11:10 Calibration**
 - What still needs to be done/settled? [VHH, JTM]
 - Slit tilt [PRY/HPW]
 - Despiking [KPD]
 - Variation of position of image on detector at:
 - EIS level [SI/SK]
 - S/C level [SI/SK]
 - Grating movement?
 - Refocus [CMK, All]
 - Counteracting 1" X-offset of slit image between detectors [PRY, All]
 - Consequences for calibration [All]

- **11:10 – 11:30 Break**

- **11:30 – 11:40 On-board software**
 - Changes made since launch [KFJ]
 - MHC s/w update to address SAA vulnerability

- **11:40 – 12:40 Ground software (*operations-related only*)**
 - Planning Tool
 - General status
 - Improvements/additions since last science meeting [DRW,PRY]
 - EIS_IMAGE_TOOL [DMZ]
 - Work remaining [DHB, SI]
 - XFILES
 - Current status [VHH]
 - Any NEED for further functionality [All]

- **12:40 – 14:00 Lunch**
- **14:00 – 15:30 Observing**
 - Calibration observations [LJB]
 - Report on calibration status
 - Review frequency of calibration observations
 - Is anything else needed?
 - EUNIS observations [JLC]
 - Data-rate issues
 - Compression factors [DHB]
 - Hinode-wide system [DRW]
 - Capping at predicted max usage
 - Bidding for more data recorder allocation
 - Science observations
 - Are we making the right kinds of observations? [HPW to lead]
 - Suggestions for:
 - line lists [GAD]
 - exposure times [Any?]
 - good “workhorse” studies [PRY, TW]
 - Information exchange
 - With other facilities [DRW]
 - With community [LKH]
- **15:45 – 17:00 Development of operations**
 - Use of unexploited functionality [KFJ, JAR, N.A.O.J., DHB]
 - Event triggers [GAD]
 - AEC [KFJ]
 - ASRC [DHB]
 - Pause & resume (for Hinode EUV night, SAA) [DRW]
 - Study aborts [DRW]
 - Full slit [SK]
 - Using full height in a single study
 - FOV anywhere inside 1024 Y pixels
 - Best optical performance versus...
 - ...coalignment with SOT
 - Planning remotely [JTM, PRY, DRW, DHB]
 - Preparations and readiness for next eclipse season [DRW]
- **17:00 – 17:10 Information on EIS**
 - What else needs to be made available? [HEM]
- **17:10 – 18:00 How well is the system working in terms of getting observations done? [JLC]**
 - Guidance to scientists
 - Suggested practical constraints

- (e.g., only adding *really* new studies to the DB)

Day 2 (31st October)

Morning (EIS Only)

09:00 – 12:00 Science (Break 10:30 – 10:50)

- *We need to keep the following things in mind as we go through science presentations:*
 - *What we never knew before EIS (talks and thoughts on)*
 - *Progress on recent and established science areas*
 - *What can't we address that we thought we could??*
- Science talks organised by target type:
 - Quiet Sun [VHH, IUU]*
 - Quiescent active regions [TW, JTM, DHB, GAD, HPW]*
 - Flaring active regions [SI, SK]*
 - Large-scale events beyond active regions [LKH]*
 - Polar coronal holes [SK]*
- Communication of results
 - Public Understanding [LKH]
 - Effort to collect data, images and movies for public distribution

12:00 – 12:30 Data

- Production
 - Quality of data [All]
 - Thinking of cosmic rays, EUV night, etc.,
 - (but other aspects welcome)
- Data flow: current status, and issues with this

12:30 – 13:00 EIS Wrap-up

- Summary of action items [DRW, All]
- Next meeting [All]

Afternoon (EIS and XRT)

14:00 – 14:30 Using EIS and XRT together

- Trust:
 - EIS and XRT
 - Stabilisation [HPW]
 - Complementary science (overview) [GAD, EDL]
 - Other?
- Current Hinode observing culture
 - A typical observing day for
 - XRT [LL]
 - EIS [DRW]
 - How could this be best varied for science exploitation?

14:30 – 17:30 Splinter group meetings (Break at 16:00-16:20):

- These are intended for people from each team to swap ideas and requests
 - We each need to do our homework!
 - Have a well-formed prototype programme that your instrument can make...
 - Then, for the other instrument, don't focus on the technical details: think about the **physics** you want instead.
 - **AR observations**
 - **Flares & Microflares**
 - **Jets, Coronal Holes and X-ray Bright Points**
- Return to main session with co-observing programmes

17:30 – 18:00 Remote Operations

- Presentation by XRT
- Discussion

Joint Meeting Wrap-up

- Summary
 - Action Items (if any) [DRW]
 - Joint Observations as a result of meeting [GAD, EDL]

Notes

Hiro Hara (HH) is unable to attend due to commitments at the Japanese Aerospace meeting in Hokkaido.

*[names can be added, subtracted or moved as necessary]

Key to EIS individuals' initials

CB: Charlie Brown (NRL)
CMK: Clarence Korendyke (NRL)
DHB: David Brooks (NRL)
DMZ: Dominic Zarro (GSFC)
DRW: David Williams (MSSL)
EDL: Ed DeLuca (SAO)
GAD: George Doschek (NRL)
HH: Hirohisa Hara (NAOJ)
HPW: Harry Warren (NRL)
IUU: Ignacio Ugarte Urra (NRL)
JTM: John Mariska (NRL)
KFJ: Khalid al-Janabi (MSSL)
KPD: Ken Dere (GMU)
LKH: Louise Harra (MSSL)
LL: Loraine Lundquist (SAO)
PRY: Peter Young (RAL)
RY: Ron Yurow (GSFC)
SI: Shinsuke Imada (NAOJ)

SK: Suguru Kamio (NAOJ)
TW: Tetsuya Watanabe (NAOJ)
VHH: Viggo Hansteen (UiO)