

75th Hinode SSC Meeting on 18th April, 2013 at 07:00 JST

Short Summary, Conclusions and Actions

a. Program Status:

1. Instrument Status Review

SOT not quite nominal (see report of 63rd SSC); blurring and intensity changes visible for 5% - 10% of the NFI field of view; no change in area; NFI observations may take a little longer; everything else is nominal with SOT.

XRT is nominal.

EIS is nominal.

2. Changes to Instrument Telemetry (on-board storage) Allocation

ACTION: Any telemetry allocation change agreements for a HOP should be communicated to Watanabe for inclusion in the Monthly Events listing and ideally in the HOP list; Ongoing

3. HOP Prioritisation

- SSC asked by **SWG** to prioritise HOPs i) with associated ground-based observations that were overlapping in a time zone and ii) in cases that generated mission telemetry use conflicts.

ACTION: Culhane to ensure that such cases were highlighted in SSC meeting notes; Ongoing

b. Previous Action Items

- **ACTION on Cirtain to summarise for Shimizu-san the discussion of introducing a one month lead-time from SSC approval to implementation of new HOPs.**

- **ACTION: Cirtain to revise the document to include current planning and upload timing details and circulate to SSC for discussion at the next meeting.**

- following discussion with **Shimizu-san**, it has been agreed that both actions will be **put on hold** pending definition and agreement for the new mission operations plan to be implemented in late 2013.

- other actions have been closed

c. Review/Discussion of Open HOPs and ToOs

Routine **HOPs (81, 130 and 79)** are ongoing

d. Review of New Proposals and Scheduling of Observations

1. Coordinated Observations between the Extreme Ultraviolet Normal Incidence Spectrograph (EUNIS) Sounding Rocket and EIS - Brosius (jeffrey.w.brosius@nasa.gov), Young (pyoung@ssd5.nrl.navy.mil); HOP 214

- launch now scheduled for **Tuesday 23rd April at 17:30 UT**; final launch window and targets to be notified
- pointing and orientation for 660 arc sec **EUNIS** slit to be confirmed on **Monday, 22nd April** for final insertion in the **Tuesday 23rd April** Hinode upload

2. Determine properties of families of solar granules and formation of the photospheric network; Roudier, Rieutord, Malherbe, Tarbell - ToO HOP 217

- previously **HOP 21**; requires **48 hr fully continuous** observation around disc centre with no ARs in SOT FoV; **important to complete before eclipse season starts**
- schedule for two days from either **27th – 29th, April** or **1st – 3rd, May**
- if second interval selected, good to complete before **07:0 UT on 2nd May**; night-time gyro only control begins from this time; drift could cause resetting of tip-tilt mirror

3. Observation of the Sodium (Na) atmosphere of Mercury with HINODE SOT at the superior conjunction – Kameda, Katsukawa; HOP 230

- run during Mercury superior conjunction on **11th/12th May, 2013**

The continuing monthly observations are:

- **Polar Monitoring - Shimojo; CORE HOP 81**
- run on two days to be selected from the period **15th through 20th May**
- **Multi-temperature Full Disk Slot Scans – Ugarte-Urra, Brooks, Warren; CORE HOP 130**
- run on **21st May**
- **Synoptic SOT Irradiance Scans – Tarbell; CORE HOP 79**
- run on **28th May (NS)** and **30th May (EW)**

e. IRIS – Hinode Joint Operations

Following discussions between representatives of the three Hinode instruments, **Okamoto-san** presented a set of suggestions for discussion by the **SSC**

- main points included:
 - for simplicity of operation and planning, Hinode should follow IRIS
 - only the initial 45 day IRIS science plan was considered; this will begin ~ 30 – 40 days after IRIS launch (now set for **26th June, 2013**); situation to be re-examined following completion of the IRIS 45 day plan
 - except for Core HOPs **#79, #81, #130** and **#206**, HOPs to be discontinued for the plan duration
 - at the start of the mission, the IRIS team would emphasise observations that required high sensitivity and high cadence to guard against impact of possible early sensitivity loss

- these principles were agreed subject to a **more detailed examination** of the operational consequences by the Hinode teams
- **SSC decided on the retention of a HINODE mission response to major flare alerts**
- SSC welcomed the proposed updating of the draft IRIS science plan before launch; the current version was very detailed and difficult to follow
- **Tarbell** agreed to provide for SSC a clearer summary of the present plan

ACTION: Tarbell to circulate clarified IRIS science plan

Points to be further considered included:

- details of the interactive planning process
- need for rolls of IRIS to optimise alignment with e.g. the EIS and SOT slits, should be examined in detail
- EIS team to consider the use of high cadence sparse slit and slot rasters to optimise EIS/IRIS co-alignment
- IRIS team to confirm their weekly meeting schedule on Wednesday US time; EIS team to consider shifting their weekly plan distribution to follow input from the IRIS meeting
- EIS team to clarify any difference in the time needed for reformatting of slit or slot image data

ACTION: All Hinode teams to comment on the joint science and operations planning within the next two weeks in preparation for a final discussion of the issues at the May SSC meeting

f. Date of Next Meeting

- next meeting: **23rd May, 2013 at 07:00 JST; 22nd May, 2013** as appropriate in US and Europe

g. AOB

- following discussion of the impact of **US Government Budget Sequestration** at the last SSC, discussions between **MSFC** and **JAXA/Hinode** managements are on-going
- there was no change in the previously reported status of NASA-supported travel to foreign meetings; this can only be agreed following an explicit case-by-case waiver
- likewise no change or updates regarding the currently planned **Hinode-7** meeting, which includes a full **SWG** meeting, to be held in Japan in the interval **11th to 16th November, 2013**
- this **SWG** will be particularly important given the upcoming changes to mission operations and the joint science operations with **IRIS** (see item **e.** above)
- requests for waivers or for any other information regarding travel should be directed to MSFC management (**Barbara Cobb**)