

167th Hinode SSC Meeting on 17th December, 2020 at 07:00 JST

Short Summary, Conclusions and Actions

a. Program Status

1. Instrument Status Review

SOT operating without its Filtergraph (FG) camera following an electronic fault. Spectro-Polarimeter (SP) and Correlation Tracker (CT) are nominal.

XRT is nominal.

EIS is nominal.

2. Report on Changes to Instrument Telemetry Allocation

There are no further reports on telemetry allocation changes

3. FM Calendar

Hinode will operate in normal mode from **9th February**. See calendar for **January** details

4. 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.

Reeves to comment when results are available from the **Nu Star** coordination; ongoing
Resubmit **HOP 79**; retain **HOP 336** with pointing details clarified

Reeves to provide revised **HOP 409** texts for XRT and EIS

Savage and **De Pontieu** to provide revised **HOP 410** text for IRIS

Savage will check dates for upcoming sounding rocket flights; EUNIS launch now scheduled to no earlier than **June**; ongoing

c. Review/Discussion of Open HOPs and ToOs

- routine **HOPs 79, 81** and **130** were run as planned during **December**; dates for these HOPs were agreed at the meeting for **January**
- **HOP 79** to be resubmitted to the next meeting; will be assigned a new HOP number
- revised **HOP 336** description has been placed on the HOP list website
- next PSP encounter will run from **11th to 23rd January**; point at limb for **10th/11th January**; select **HOP 410** for quiet sun or **HOP 409** for active sun; **Reeves** will inform planners of which option; if no PSP predictions, **Warren** will provide input to planners
- NuSTAR planning observations during PSP interval; will follow Hinode HOP selection but wish to extend HOP start time to 11:00 UT
- **HOP 403** has been run once; preliminary comments suggest good outcome

- **HOP 408** will support next Solar Orbiter encounters in **February/March**
- EUNIS rocket delayed; to be launched on **18th June, 2021**; **Savage** will monitor

d. Review of New or Updated Proposals and Scheduling of Observations

There was one new HOP proposal.

1. Hinode (SOT/SP) and IRIS Observations of the Evolution of Sunspot Penumbrae – Tiwari (tiwari@lmsal.com), DeRosa (derosa@lmsal.com), De Pontieu (bdp@lmsal.com); HOP 411

- study how penumbral filaments and spines in sunspot penumbra, and moving magnetic features near sunspot penumbra evolve, and what is their transition region response; gain a comprehensive understanding of the global energy budget and energy partitioning in solar eruptive events from the chromosphere to the inner heliosphere
- time window: any time when a sunspot is close to disk center (<45 degrees). Repeated scans for 2 to 8 hours or as long as possible without significant drift.
- target(s) of interest: Sunspot Penumbra, ToO; Fully developed sunspot (with penumbra) near disk center (within 45 degrees, preferably track penumbra from -30 degrees East to 30 degrees West)
- simultaneous IRIS and SP scans are necessary to obtain the desired data set/s. This HOP is best run in the spring or fall when neither Hinode nor IRIS are in eclipse season
- SOT and IRIS details in HOP list

Continuing monthly observations are:

- **Polar Monitoring - Shimojo; CORE HOP 81**
- run on **5th January** (N pole fast) and **7th January** (S pole fast)
- **Multi-temperature Full Disk Slot Scans – Ugarte-Urra, Brooks, Warren; CORE HOP 130**
- run on **12th January**
- **Synoptic SOT Irradiance Scans – Berger; CORE HOP 79**
- run on **14th January** (N/S only)
- **Cycle 25 Bright Points - Bryans , Centeno, Savage; HOP 336**
- run on every Monday throughout **January**
- **Cycle 24/25 Equatorial Transition - Egeland, Bryans, Centeno, Savage, Watanabe, De Pontieu; HOP 393**
- run on every Saturday throughout **January**

e. Monthly Science Reports

- next **Hinode** monthly science report will be prepared by the **EIS Team** by **15th January**
- **NOTE:** Science chart site access has been changed due to IT requirements; **Savage** has established a new Google drive site for template and previous chart
- provide one summary slide for Hinode team management at MSFC and two additional slides for NASA HQ

f. Date of Next Meeting

- next meeting: **14th January, 2020** at **07:00 JST**; **13th January, 2020** as appropriate in US/Europe

g. AOB

NASA Senior Review results: still awaited.

Next Hinode meeting date and format being discussed; also a possible seminar series

On-going reminder: press-worthy Hinode highlights to be sent to **Savage** prior to publication