

166th Hinode SSC Meeting on 19th November, 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 focused mode from **24th November**.

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 recent **Nu Star** coordination; ongoing

Matthews to agree EIS studies required by **HOP 407** proposer

De Pontieu to agree IRIS studies required by **HOP 407** proposer

Savage to confirm date and time duration for **HOP 408**

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

c. Review/Discussion of Open HOPs and ToOs

- routine **HOPs 79, 81** and **130** were run as planned during **November**; dates for these HOPs were agreed at the meeting for **December**
- **Reeves** will continue to monitor results from the Nu Star coordination
- **HOP 408** will be run in the period **1st – 8th December**
- **HOP 396** needs to be run again
- **HOP 130** will be run once on **15th December** during the focus mode break
- changes are required to the texts for **HOP 336** and **HOP 79**
- agreed that **HOP 79** should be resubmitted; the number will be retained for **HOP 336** with the pointing details clarified
- EUNIS rocket again delayed; may be launched in **February**; **Savage** will monitor

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

There were two new HOP proposals.

1. Energetics of Solar Eruptions from the Chromosphere to the Inner Heliosphere – Reeves (kreeves@cfa.harvard.edu), Polito, Sun, Longcope, Sterling, Reardon, HSO-Connect Teams, DeLuca/SSC; Reeves/SSC; HOP 409

- gain a comprehensive understanding of the global energy budget and energy partitioning in solar eruptive events from the chromosphere to the inner heliosphere
- coordinated request from the three groups selected through NASA's Heliophysics System Observatory Connect program; plan to coordinate a wide range of remote-sensing observations.
- targets: 1) on-disc AR; 2) AR on the limb; ARs with flaring regions preferred
- dates: +/- 5 days around PSP perihelia where PSP will be on the front side of the Sun, or in quadrature; upcoming PSP dates given in HOP list; run continuously for 4 – 5 days
- SOT request: on-disc AR: fast SP map; 164" x 164", full FoV if TLM allows; limb AR: no request
- EIS request: studies for both targets given in HOP list
- XRT request: details for both targets given in HOP list; following meeting, Reeves provided revised texts for both XRT and EIS
- IRIS request: details for both targets given in HOP list; IRIS has had other requests to support PSP so may need to resolve conflicts
- additional instrument coordination: PSP, Solar Orbiter, EOVS, DKIST, VLA

2. Coordinated HSO Connect Observations of PSP Quiet-Sun Source Regions – Sterling (alphonse.sterling@nasa.gov), Reardon, Polito, Reeves, Moore, HSO-Connect Teams, Savage/SSC, Watanabe/SSC, De Pontieu/SSC; ToO HOP 410

- observe the full solar disk with XRT to identify energetic events that occur near the time of Parker Solar Probe (PSP) perihelion passage, where those energetic events might be the solar source for solar wind features detected in the heliosphere by PSP.
- coordinated request from the three groups selected through NASA's Heliophysics System Observatory Connect program; plan to coordinate a wide range of remote-sensing observations.
- targets: XRT to observe full solar disc centred at disc centre; proposers will notify IRIS and Hinode teams of preferred location
- dates: run at low activity times around PSP perihelion passages; first perihelia dates are **17th January** and **29th April, 2021**; for January 17th, start 5 – 7 days before and continue for 2 – 4 days after; for April 29th, start 2 days before and continue for 5 – 7 days after
- no SOT or EIS observations requested; see HOP list for XRT and IRIS request texts
- IRIS text to be revised by **De Pontieu** and **Savage**; done following the meeting
- additional instrument coordination: ground-based support from Big Bear, Sac Peak, and/or Tenerife; standard data from SDO: HMI and other instruments TBD

Continuing monthly observations are:

- **Polar Monitoring - Shimojo; CORE HOP 81**
- run on **8th December** (N pole fast) and **10th December** (S pole fast)
- **Multi-temperature Full Disk Slot Scans – Ugarte-Urra, Brooks, Warren; CORE HOP 130**
- run on **15th December**

- **Synoptic SOT Irradiance Scans – Tarbell; CORE HOP 79**
- run on **17th December** (N/S only)

- **Cycle 25 Bright Points - Bryans , Centeno, Savage; HOP 336**
- run on every Monday throughout **December**

- **Cycle 24/25 Equatorial Transition - Egeland, Bryans, Centeno, Savage, Watanabe, De Pontieu; HOP 393**
- run on every Saturday throughout **December**

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: **17th December, 2020** at **07:00 JST**; **16th December, 2020** as appropriate in US/Europe

g. AOB

UKSA extension funding was agreed.

NASA Senior Review results, expected in **November**, still awaited.

New NASA calendar has several excellent images from solar missions.

Savage again requested press-worthy Hinode highlights to be sent prior to publication; particularly items for presentation at the AGU.