

155th Hinode SSC Meeting on 19th December, 2019 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 focus mode change has been made and is on-line.

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

On-going action for **Savage** to inform COs how NuStar and Alma requests should be handled

c. Review/Discussion of Open HOPs and ToOs

- routine **HOPs 79, 81 and 130** were run as planned during **December**; dates were agreed at the meeting for **January**
- **HOP 344** (EIS/IRIS full scans) will next be run during the upcoming PSP encounter. IRIS team will assess the impact of the eclipse season.
- proposer will suggest a target for **HOP 367** which has not yet been run; EIS team will check
- it was confirmed that the EUNIS launch has been moved to an **April** date
- three further rocket launch support requests will be scheduled for **May and June**

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

1. The X-ray Sun during the 2019 Dec 26 Annular Solar Eclipse - Jay M. Pasachoff

(jay.m.pasachoff@williams.edu), Alphonse C. Sterling (alphonse.sterling@nasa.gov), Savage/SSC, Watanabe/SSC, De Pontieu/SSC; HOP 391

- synoptic observations of the full-disc Sun near time of annularity
- times for contacts for observations from India: C1 2:37; C2: 4:00:07; C3: 4:03:22; C4: 5:44 UTC; it is desired to have full-disc images as close as possible to the C2 - C3 time window
- Reeves to confirm that XRT can support these observations and HOP 394 for Hara-san

2. Understanding the Correlation between Solar Abundances and F10.7 Radio Emission using

VLA - Andy S.H. To (shu.to.18@ucl.ac.uk), David Brooks (dhbrooks.work@gmail.com), Deborah Baker, Tim Bastian (tbastian@nrao.edu), Paul Bryans, David Long, Lidia van Driel-Gesztelyi, Bart De Pontieu (bdp@lmsal.com), Magnus Woods, Savage/SSC, Watanabe/SSC, De Pontieu/SSC; HOP 390

- to understand the correlation between solar abundances and F10.7 radio emission during various activity periods of the Sun
- dates: ToO within the allocated VLA configuration C period **6 Feb 2020 to 11 May 2020**
- time window: coordinated observations with the VLA from 13:05 to 01:10 UT. EIS and IRIS scans to run a few hours before/after the VLA window
- target: first priority: full disk scan of multiple ARs on disk; second priority: single AR

3. Solar Wind Release near Coronal Hole Boundaries during the Fourth Parker Solar Probe

Perihelion - Diego de Pablos (diego.pablos.18@ucl.ac.uk), David Stansby (d.stansby@ucl.ac.uk), Andy S.H. To, Ryan French, Joel Abraham, Deborah Baker, Sarah Matthews, Matthews/SSC, Culhane/SSC; HOP 392

- measuring plasma parameters at a coronal hole boundary to investigate how solar wind near the heliospheric current sheet is released; in support of Parker Solar Probe's 4th perihelion
- dates: ToO when PSP footpoint is within prime HMI field of view; currently predicted for between **23rd January, 14:00 UT** and **4th February, 05:15 UT**
- target: primary is a coronal hole 1 hr scan; if AR emerges use a 3 hr scan; three observations beneficial; beginning, middle and end of five day period
- how to reconcile this request for observing time with the other observations planned during the PSP encounter is still under discussion

4. Cycle 24/25 Equatorial Transition - Egeland (egeland@ucar.edu), Bryans (pbryans@ucar.edu), Centeno (rce@ucar.edu), Savage/SSC, Watanabe/SSC, De Pontieu/SSC; HOP 393

- capture the magnetic and chromospheric signatures of the transition between cycle 24 and 25
- weekly observations of an equatorial band are requested from **January 1st to December 31st, 2020**; extension to **June 30th, 2021** is desirable
- target: quiet sun or ARs in the equatorial region centered on the central meridian
- SSC agreed that these observations could not be run on the same day as HOP 336
- run time of 00:00 UT - 03:00 UT was agreed; to be reviewed after a trial period

5. South Polar Coronal Hole Observations during the On-orbit Eclipse - Hara (hirohisa.hara@nao.ac.jp); HOP 394

- study the radial variation of nonthermal plasma motions in the high-speed solar wind stream using EUV spectra
- EIS and XRT observations are requested during the two lunar transits on **26th December**
- time of raster run and EIS pointing target:
2019 Dec 26 02:57-03:26 UT + 03:27-03:56 UT, Pointing (X, Y) = (+100", roughly -1150")
2019 Dec 26 05:48-06:17 UT + 06:18-06:47 UT, Pointing (X, Y) = (-100", roughly -1150")
- XRT observing times: 03:30 UT - 04:00 UT, 06:15 UT - 06:45 UT

Continuing monthly observations are:

- **Polar Monitoring - Shimojo; CORE HOP 81**
- run on **7th January (N pole fast)** and **9th January (S pole fast)**
- **Synoptic SOT Irradiance Scans – Tarbell; CORE HOP 79**
- run on **16th January (N/S only)**
- **Multi-temperature Full Disk Slot Scans – Ugarte-Urra, Brooks, Warren; CORE HOP 130**
- run on **21st January**
- **Cycle 25 Bright Points - Bryans , Centeno, Savage; HOP 336**
- run on every Monday throughout **November**

e. Monthly Science Reports

- next **Hinode** monthly science report will be prepared by the **EIS Team** by **17th 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: **16th January, 2020** at **07:00 JST**; **15th January, 2020** as appropriate in US/Europe

g. AOB

The Senior Review Call for Proposals section is being revised.

It was suggested that the next Hinode meeting, to be held in Washington in July, 2020, should be expanded to include an IRIS meeting. Discussions of this are ongoing.