160th Hinode SSC Meeting on 21st May, 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 continue to operate in focus mode. **Reeves (XRT)** stated that the long period in focus mode was making it increasingly difficult to avoid errors when loading complex observing programmes. **SOT** and **EIS** teams agreed with this. **XRT** team requested two weeks of normal mode operation in July if possible. **Savage** agreed to discuss this with **Shimizu-san.**

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.
EIS team to check studies available for **HOP 398**

c. Review/Discussion of Open HOPs and ToOs

- routine **HOPs 79, 81** and **130** were run as planned during **May;** dates for these HOPs were agreed at the meeting for **June**
- **HOP 336** and **HOP 393** dates were also confirmed
- **EIS** and **IRIS** will continue Solar Orbiter collaborative observations through end of **May;** no conflicts with routine HOPs
- **EIS** team wish to perform a full-disc mosaic following the upcoming PSP encounter but, given in Hinode eclipse season, may need to restrict its extent; **Warren** will discuss this with **Brooks**
- **IRIS** team would like to begin a full-disc scan after **15th June**

- meeting began a discussion of the upcoming PSP encounter **#5: 01 June – 13 June, 2020**
  - what should be the Hinode team response to release of multiple targets by the PSP modelers
  - note: pointing changes are not possible during a 7-day focus mode interval
  - could focus mode be suspended during the PSP support interval; if not, need to use pre-agreed target pointings**;** **Savage** agreed to discuss this with **Shimizu-san.**
- following the meeting it was agreed that normal mode would operate between 9th and 15th June

- PSP discussion will continue by email following the meeting

- launch dates for upcoming sounding rocket flights – EUNIS, MaGIXS and EVE, remain on hold pending resolution of the virus crisis

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

There were three new HOP proposals.

1. Solar Wind Outflow in Coronal Holes – Hofmeister (stefan.hofmeister@uni-graz.at), Matthews/SSC, Culhane/SSC; ToO HOP 400

- study of solar wind outflow in the individual magnetic funnels within coronal holes
- dates: run in **September**
- time window: ccordinate with BBSO/GST; require 4 hours observing time without interruption on at least one day with good ground-based observing conditions
- target: low-latitude coronal hole with a size of about 300"x400", with a maximum distance of 500" to disk center
- no request for **SOT**
- for **EIS,** requested study not in EIS data base; new study to be prepared and validated by **September**
- **XRT:** all available filters with maximum exposure time at the beginning and end of the observations; during observation: Al-mesh and Al-poly, cadence:1 min; FOV: 512"x512", centered at the target.
- **IRIS:** proposal submitted to IRIS: IRIS ObsID: 3621414073

2. Coordination with SST and IRIS - Dynamics of Flux Cancellation in Neutral Lines – Chintzoglou (gchintzo@lmsal.com), Savage/SSC, Watanabe/SSC, De Pontieu/SSC; HOP 401

- IRIS+SST coordinated observations of the dynamics of flux cancellation in emerging or decaying active region neutral lines
- dates: every other day during the LMSAL shift at the SST/IRIS-SST coordination: **June 4th to 17th**
- time window: 8-10 UT coordinated with SST; avoid short interruptions if possible to maximize coordination coverage during potentially good seeing conditions at the SST
- targets: 1) neutral line of an emerging AR; 2) Neutral line of a decaying AR/opposite polarity plage
- no request for **EIS**
- **SOT:** similar to that for HOP 330 on 2017 April 22 at 14UT, but twice as wide (i.e. 20").
- **XRT**: observe AR or decaying AR for sigmoids at the start or near the time of the SOT observations; Al-poly - 512x512; no rapid time sequences needed
- request submitted to **IRIS** team
- for suitable target, may sacrifice cadence for additional 20” along x-direction; double raster time to 3.2 minutes

3. AR Outflow Dynamics with IRIS, SST and Hinode/EIS – Polito (polito@baeri.org), De Pontieu (bdp@lmsal.com), Brooks (dhbrooks.work@gmail.com), Savage/SSC, Watanabe/SSC, de Pontieu/SSC; HOP 402

- study the dynamics of the low atmosphere counterpart of the AR outflows using IRIS and SST
- dates: SST-IRIS coordinated campaign will be run from **June 4th – 17th**; coordination with **Hinode** should be run in this period if suitable AR is available; consecutive days desired but not essential
- time window: 07:30 UT -12:00 UT is tentative time window for coordinated SST-IRIS campaign;. ideally SST, IRIS and Hinode should observe same target for 2-3 hr during this window
- target: edge of AR with stronger outflows
- no request for **XRT**
- **SOT**: large SP raster map covering 120" x 170" with duration of ~ 1 hr
- **EIS:** run repeated fast scans to fill the 2-3 hr window and two large context scans, one at start and one at end of observation window
- **IRIS:** observation has been ageed with IRIS team

Continuing monthly observations are:

- **Polar Monitoring - Shimojo; CORE HOP 81**
- run on **2nd June (N pole fast)** and **3rd June (S pole fast)**

- **Multi-temperature Full Disk Slot Scans – Ugarte-Urra, Brooks, Warren; CORE HOP 130**
- run on **18th June**

- **Synoptic SOT Irradiance Scans – Tarbell; CORE HOP 79**
- run on **23rd June (**N/S only**)**

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

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

e. Monthly Science Reports

- next **Hinode** monthly science report will be prepared by the **SOT Team** by **17th June**
- **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: **18th June, 2020** at **07:00 JST**; **17th June, 2020** as appropriate in US/Europe

g. AOB

Senior Review proposal due **3rd June**