

## 152<sup>nd</sup> Hinode SSC Meeting on 26<sup>th</sup> September, 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 calendar has been updated. Upcoming sounding rocket launch and notable campaign dates are included.

##### 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

**Savage** will check situation regarding **HOP 367** schedule

**Savage** will discuss possible interaction of **HOP 312** with **HOP 384**

#### c. Review/Discussion of Open HOPs and ToOs

- routine **HOPs 79, 81** and **130** were run as planned during **September**; dates were agreed for **October**
- **HOP 336** pointing change has been completed and the HOP list updated
- **HOP 344** (EIS/IRIS scans) was run in **September**; EIS data are good, IRIS data report awaited; **Savage** will establish the next run date for this HOP
- **HOP 366**, which provided PSP support, was run successfully; one PSP instrument turned off during the encounter but is now operating again
- **Savage** will check the outcome of the **HOP 385** run including the BITSE balloon launch
- future runs of **HOP 367** are on hold pending input from the proposers
- **MOSES/ESIS** rocket launch date now **30<sup>th</sup> September**
- **HOP 379** was run and acquired data

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

##### 1. Coordination with DL-NIRSP First Light - Sarah Jaeggli ([sjaeggli@nso.edu](mailto:sjaeggli@nso.edu)), Haosheng Lin, DeRosa/SSC, Shine/SSC; HOP 386

- obtain coordinated observations with SOT/SP and DL-NIRSP to verify instrument performance
- target in order of preference: sunspot, pore, plage, quiet-sun network within 60 deg of disc centre
- observation dates: DL-NIRSP does not have a firm date for first light observations, but is likely to cover two weeks during **May - June 2020**; minimum number of coordinated observing days: 3; days do not need to be consecutive
- no requests for XRT, EIS or IRIS

##### 2. Quantifying Evolution of Magnetic Flux Prior to the Onset of a Solar Eruption - Jenkins ([jack.jenkins.16@ucl.ac.uk](mailto:jack.jenkins.16@ucl.ac.uk)), Long, Green, Matthews/SSC, Culhane/SSC; HOP 387

- quantify how the evolution of small-scale magnetic flux in the solar photosphere affects the plasma contained within an associated filament.
- targets of interest: quiescent filament (on-disk); team to provide pointing information the day prior
- observation dates: **22<sup>nd</sup> October - 1<sup>st</sup> November**; requires coordination with GREGOR
- time window: 07:00 UT - 13:00 UT for optimum GREGOR seeing; prefer continuous pointing throughout time window
- observation should start on **23<sup>rd</sup> October** to avoid **HOP 381** overlap
- SOT, EIS, XRT and IRIS support requested
- **Matthews** should ask Jenkins to discuss IRIS/EIS observations in detail with DeRosa
- **Reeves** recommended fixed exposures for XRT

##### 3. Transit of Mercury (ToM) on 11<sup>th</sup> November, 2019 - Pasachoff ([jav.m.pasachoff@williams.edu](mailto:jav.m.pasachoff@williams.edu)), Sterling ([alphonse.sterling@nasa.gov](mailto:alphonse.sterling@nasa.gov)), Savage/SSC, Watanabe/SSC, De Pontieu/SSC; HOP 388

- observe Mercury as it transits the Sun on **11<sup>th</sup> November, 2019**
- UT transit contact times: 1) 12:35:26 2) 12:37:08 3) 18:02:33 4) 18:04:14
- team will observe contacts #3 and #4 from BBSO
- main support request to XRT; minimum requirement: set of thin filter images at 30s cadence for contacts #3 and #4; higher cadence preferred; coverage of contacts #1 and #2 also requested
- suggest that EIS and IRIS take public outreach observations to complement XRT (see HOP 303)
- **Savage** to ask proposers if smaller XRT FoV observations would be acceptable to ensure higher cadence; discussions have commenced.

Continuing monthly observations are:

- **Polar Monitoring - Shimojo; CORE HOP 81**
- run on **10<sup>th</sup> October (N pole fast)** and **12<sup>th</sup> October (S pole fast)**
- **Synoptic SOT Irradiance Scans – Tarbell; CORE HOP 79**
- run on **17<sup>th</sup> October (N/S only)**
- **Multi-temperature Full Disk Slot Scans – Ugarte-Urra, Brooks, Warren; CORE HOP 130**
- run on **6<sup>th</sup> and 29<sup>th</sup> October**

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

**e. Monthly Science Reports**

- next **Hinode** monthly science report will be prepared by the **SOT Team** by **11<sup>th</sup> November**
- **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: **24<sup>th</sup> October, 2019** at **07:00 JST**; **23<sup>rd</sup> October, 2019** as appropriate in US/Europe

**g. AOB**

Hinode team congratulated **Savage** on the birth of her grand daughter - **Hazel**.

Draft of Senior Review document is expected shortly; final version due in February.

Fiscal spreadsheets will have a different format from that of previous years.