

## 112<sup>th</sup> Hinode SSC Meeting on 26<sup>th</sup> May, 2016 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 and operating. SOT limb observations will be significantly reduced.

XRT is nominal.

EIS is nominal..

##### 2. Report on Changes to Instrument Telemetry Allocation

Following SOT/FG camera fault and the revised allocation agreed by SWG for Hinode normal mode operation, **Tarbell** reported on TLM allocations for the past month. SOT allocation reduced below its agreed on-disc value of 54% for three of the 13 timelines. The 20% time spent in limb pointing was a slight increase over the March figure and included HOP 81 polar pointing which is SP telemetry intensive. Agreed that PIs should encourage limb pointing targets and alert Hinode COs to this need.

##### 3. FM Calendar

EVE launch date is now **1<sup>st</sup> June**; 30 min launch window starts **19:00 UT**. **HOP 130** to be run once, either before or after launch window. **ACTION: Warren** will inform EVE Team.

**Hi-C II** launch now set for **19<sup>th</sup> July**. This removes any conflict with focus mode

##### 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

- **Savage** to check for possible conflicts for Hi-C II support with Hinode Focus Mode. **Completed**

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

- routine HOPs **130, 79** and **81** were run as planned during **April**
- Mercury Transit observations were very successful and provided valuable outreach output
- following discussion, dates for the **June** running of **HOPs 130, 79** and **81** were agreed
- request received from **Aimee Norton** for **ToO HOP 307**; agreed that 14 day limb-to-limb tracking of suitable AR was important and **HOP 307** should have high priority during focus mode operations

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

**1. GREGOR-Hinode-IRIS Observations to Study Flares over a Wide Spectral Range - Kleint ([lucia.kleint@fhnw.ch](mailto:lucia.kleint@fhnw.ch)), Kuckein, Young, Krucker, SSC contact: Savage ([sabrina.savage@nasa.gov](mailto:sabrina.savage@nasa.gov)); ToO HOP 310**

- investigate effects and energetics of flares on the lower solar atmosphere
- coordinated observation with GREGOR; time award **27<sup>th</sup> June - 5<sup>th</sup> July**
- requires observation **07:30 UT to 11:30 UT** with priority for **08:00 UT - 10:00 UT**
- proposers will inform planners when suitable AR is available

**2. 3D Structures of Magnetic Field at Magnetic Flux Cancellation Sites with IBIS, Hinode and IRIS**

- **Kubo ([masahito.kubo@nao.ac.jp](mailto:masahito.kubo@nao.ac.jp)), Judge ([judge@ucar.edu](mailto:judge@ucar.edu)); HOP 311**
- study the 3-D structures of magnetic and velocity fields at flux cancellation sites using multi-line data
- coordinated observation with DST/IBIS; observation days: **2<sup>nd</sup> - 3<sup>rd</sup> June and 7<sup>th</sup>-10<sup>th</sup> June, 13:30 UT - 17:00 UT**
- track AR for three days; if no available AR, observe magnetically active region (ephemeral region, network fields) near disc centre; proposers will select targets

**3. Magnetic field in and around Explosive Granules - Frank ([zoe@lmsal.com](mailto:zoe@lmsal.com)), Roudier, Malherbe, SSC contact: Shine ([shine@lmsal.com](mailto:shine@lmsal.com)); ToO HOP 312**

- measure magnetic field around/in explosive granules at high spatial resolution
- needs 6 hr continuous observation on quiet sun; not possible in eclipse season
- run as quiet sun ToO during interval **10<sup>th</sup> - 24<sup>th</sup> August**

**4. Flow and Magnetic Fields in the vicinity of AR Filaments with GREGOR, VTT, DST and Hinode**

- **Verma ([mverma@aip.de](mailto:mverma@aip.de)), Denker, Kuckein, Balthasar, Diercke, (AIP); Tritschler,(NSO); Deng, Wang, (NJIT), SSC contact: Shine ([shine@lmsal.com](mailto:shine@lmsal.com))**
- use multi-instrument/multi-telescope data to measure magnetic and velocity fields near the magnetic neutral lines of ARs with filaments
- telescope time available from **19<sup>th</sup> to 30<sup>th</sup> September; GREGOR; 08:30 - 10:30 UT, DST/NST: 14:30 - 17:00 UT**
- note conflict with SOT/SST core team programme for **23<sup>rd</sup> - 30<sup>th</sup> September, 08:30 - 10:30 UT; SOT team happy to discuss possible common targets**
- awaiting support statements from ground-based instruments; assign HOP status later

**ACTION: Tarbell and Shine to contact team and agree detailed timeline**

**5. Search for Chromospheric Manifestation of Ubiquitous Photospheric Jets - Lites**

**([lites@ucar.edu](mailto:lites@ucar.edu)), Quintero Noda, (JAXA), Martinez Pillet, (NSO), SSC contact: Shine ([shine@lmsal.com](mailto:shine@lmsal.com)); HOP 313**

- detailed search for/investigation of chromospheric enhancements/dynamics associated with small-scale, ubiquitous highvelocity events seen in the quiet photosphere
- observe quiet sun near disc centre; no specific times but avoid spacecraft night in eclipse season and SAA to allow continuing accurate Hinode/IRIS co-alignment
- request 20 one hr sequences on quiet sun and 20 sequences in coronal holes

- smaller number of observations agreed initially; build up to 40 following data assessment
- initial low activity **ToO** runs could take place in interval **7<sup>th</sup> - 12<sup>th</sup> July**; review outcome at July SSC

**Tarbell has communicated this outcome to Lites who has agreed to assess early data and then request further runs with possible changes based on data assessment**

The continuing monthly observations are:

- **Polar Monitoring - Shimojo; CORE HOP 81**
- run on **4<sup>th</sup> June** (N pole fast), and **6<sup>th</sup> June** (S pole fast); **zero B-angle crossing on 5<sup>th</sup> June**
- **Synoptic SOT Irradiance Scans – Tarbell; CORE HOP 79**
- run on **23<sup>rd</sup> June** (N/S only)
- **Multi-temperature Full Disk Slot Scans – Ugarte-Urra, Brooks, Warren; CORE HOP 130**
- run on **21<sup>st</sup> June**

**e. Monthly Science Reports**

- next **Hinode** monthly science report is being prepared by the **XRT Team** for ~ 10<sup>th</sup> June, **2016**
- see [http://hinode.msfc.nasa.gov/science\\_charts/](http://hinode.msfc.nasa.gov/science_charts/) for template and previous charts

**f. Date of Next Meeting**

- next meeting: **23<sup>rd</sup> June, 2016** at **07:00 JST**; **22<sup>nd</sup> June, 2016** as appropriate in US/Europe

**g. AOB**

**Savage** reported NASA approval for travel support for the upcoming **SPD** meeting and is awaiting support for **Hinode-10** meeting travel