

114th Hinode SSC Meeting on 21st July, 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 only two out of seven timelines in the past 32 days. Still relatively few limb pointings. PIs should strongly encourage COs to assign additional telemetry to EIS and XRT for limb pointing targets.

3. FM Calendar

- **Hinode** will return to focused mode operation from **26th July**.
- **Hi-C II** launch delayed to **27th July**

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** is discussing the use of XRT filter ratios with the HOP 316 team and will inform **Watanabe** of updates to the HOP description text

c. Review/Discussion of Open HOPs and ToOs

- routine HOPs **130, 79** and **81** were run as planned during **July**
- following discussion, dates for the **August** running of **HOPs 130, 79** and **81** were agreed; a **HOP 130** run was delayed to avoid running in focused mode.
- a question regarding a new EIS study for **ToO HOP 306** (begins **21st August**) was resolved post meeting; ar_evolution (ID #554) was recently added to the data base.

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

1. Small-scale Solar Activities and their Spectroscopic Property - Li ([njlihui@pmo.ac.cn](mailto:njlhui@pmo.ac.cn)).

Zhao (zhaojie@pmo.ac.cn), Watanabe/SSC (watanabe@uvlab.mtk.nao.ac.jp); HOP 320

- study response of upper solar atmosphere to small-scale flux emergence
- coordination with BBSO/NST and IRIS; observe any active area on the Sun that is likely to produce small-scale activities
- observing interval: 19th - 21st August, minimum observation : one day; time window: 16:00 UT - 23:00 UT, short interruptions are acceptable
- EIS studies specified by proposers; telemetry requirement for SOT and XRT support was judged to be excessive.

Watanabe to arrange discussion between proposers and SOT/XRT Team representatives

2. Observational Exploration of the Height Variation of Magnetic Fields and Chromospheric Dynamics In and Above Umbral Dots - Lites (lites@ucar.edu), Borrero (borrero@leibniz-kis.de), Shine/SSC (shine@lmsal.com); ToO HOP 321

- explore height dependence of the magnetic field vector in the deep photosphere of umbral dots; search for any chromospheric response to the umbral dot phenomenon.
- coordination with GREGOR/GRIS; observe well-developed sunspot umbra within 30° of disc centre
- observing interval: 19th August - 1st September; require minimum two days coordinated observation; time window: 08:00 UT - 10:00 UT; short interruptions are acceptable; time overlap with HOP 320 judged acceptable
- SOT programme was specified; no request to XRT or EIS; IRIS may be unable to support but will do so if available

3. Dark Filament and Photospheric Magnetic Field: Coordinated observations with Hida Observatory, Fuxian Solar Observatory, Hinode - Ichimoto (ichimoto@kwasan.kyoto-u.ac.jp), Ueno (ueno@kwasan.kyoto-u.ac.jp), Liu (lz@nao.ac.cn), Yan (yanx@nao.ac.cn), Sekii/SSC (sekii@solar.mtk.nao.ac.jp); HOP 322

- observe dark on-disc filaments and their relation to photospheric magnetic and velocity fields
- coordination with Fuxian/NVST and Hida/DST; observe dark on-disc filaments, AR filaments or quiescent filaments
- observing interval: 9th August - 20th August; minimum observation: six days; observation time window: 00:00 UT - 04:00 UT while 00:30 UT - 02:30 UT is optimum; prefer no interruptions.
- SOT, XRT and EIS requests are listed; EIS team suggest TR_BRIGHT_LO as preferred study; DePontieu will contact Ichimoto to discuss IRIS support

4. SST-IRIS-Hinode Campaign -Tarbell(tarbell@lmsal.com), DePontieu (iris_planner@lmsal.com), van der Voort (sst_planner@astro-uisi.no), Shine/SSC (shine@lmsal.com); HOP 323

- obtain high cadence high spectral resolution observations of photosphere and chromosphere; annual campaign with SST/CRISP; detailed science goals for this year are listed
- coordination with SST/CRISP and IRIS
- observing interval: 23rd September - 6th October; optimum time window: 07:45 UT - 11:00 UT; IRIS and SST will perform flare watch 11:00 UT - 17:00 UT each day on most promising AR
- SOT, XRT and IRIS requests are listed; De Pontieu to discuss optimum EIS studies with Hansteen

5. Fine Structure and Dynamics of Solar Filaments/Prominences - Su (yysu@pmo.ac.cn), Liu (lz@nao.ac.cn), Reeves/SSC (kreeves@cfa.harvard.edu); HOP 324

- target will be quiescent filament/prominence with barbs and/or tornado like features or an active region filament, similar to **HOP 289** or for AR filaments similar to **HOP 260**
- coordination with **BBSO/NST** and **IRIS**
- observing interval: **1st - 8th September**; optimum time window: **17:00 UT - 21:00 UT**
- **Reeves** will specify EIS study requirements to the **EIS** team and provide **HOP 324** details to **Watanabe** to enable updating of previous HOP information

6. Polar Panorama Map for Polar Reversal in Cycle 24 – Shimojo(shimojo@nro.nao.jp); HOP 206

- target will be North polar region; obtain data for North Pole
- schedule every three days during **August/September**; start **26th August**; end **22nd September**

The continuing monthly observations are:

- **Polar Monitoring - Shimojo; CORE HOP 81**
- run on **16th August** (N pole fast), and **18th August** (S pole fast)
- **Synoptic SOT Irradiance Scans – Tarbell; CORE HOP 79**
- run on **25th August** (N/S only)
- **Multi-temperature Full Disk Slot Scans – Ugarte-Urra, Brooks, Warren; CORE HOP 130**
- run on **16th August** and **30th August**

e. Monthly Science Reports

- next **Hinode** monthly science report is being prepared by the **NRL EIS Team** for ~ September, **2016**; date to be agreed with **Savage**
- see http://hinode.msfc.nasa.gov/science_charts/ for template and previous charts

f. Date of Next Meeting

- next meeting: **25th August, 2016** at **07:00 JST**; **24th August, 2016** as appropriate in US/Europe

g. AOB

Senior review dates for submission and assessment are approaching; good if **Savage** could circulate finally agreed dates to **SSC**