

113th Hinode SSC Meeting on 23rd June, 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 one timeline in the past month. PIs should strongly encourage COs to assign additional telemetry to EIS and XRT for limb pointing targets.

3. FM Calendar

- **Hinode** currently operating in focused mode.
- **Hi-C II** launch confirmed for **19th July** when a one week interval of normal mode operation will begin.
- **ALMA** proposal outcomes should be available in 1 - 2 months from now

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

- actions from previous meeting were completed

c. Review/Discussion of Open HOPs and ToOs

- routine HOPs **130, 79** and **81** were run as planned during **June**
- following discussion, dates for the **July** running of **HOPs 130, 79** and **81** were agreed; **HOP 130** was delayed by one day to avoid a clash with the **Hi-C II** launch
- **EVE** launch was successful; **HOP 307** has been run once
- **HOP 306** and **HOP 312** need continuous observation periods so have been delayed to end of eclipse season in **August**; support for the **VENUS** atmosphere observation was successfully completed.

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

1. Flow and Magnetic Fields in the Vicinity of Active Region Filaments with GREGOR, VTT, DST, NST, and Hinode - Verma (mverma@aip.de), Shine/SSC (shine@lmsal.com); HOP 315

- accurately measure magnetic and velocity fields in/around neutral lines of ARs with filaments
- coordinated observation with VTT and Gregor (08:30 UT - 10:30 UT) and Sac Peak and BBSO (14:00 UT - 17:00 UT) in the period 19th - 30th September; observing on consecutive days preferred
- no request to EIS or XRT; SOT support for both time intervals only possible for 19th - 22nd September; conflict with SOT core team observations for 23rd - 30th September in VTT/GREGOR time interval
- support possible if HOP 315 team choose same target as SOT team

2. Searching for Non-Maxwellian Distributions with COMP, EIS, and IRIS - Dudik (dudik@asu.cas.cz), Culhane/SSC (j.culhane@ucl.ac.uk); ToO HOP 316

- undertake diagnostics of non-Maxwellian kappa-distributions and electron density from EUV/UV/Visible observations
- coordination with Mauna Loa COMP coronagraph and IRIS; target: off-limb AR with coronal loops emitting in Fe IX - Fe XIV
- observing interval: 16th August - late September; 18:00 UT - 00:00 UT; three consecutive days
- no request to SOT; use previously developed EIS studies: CompS_NonMax; request XRT filter ratio observations with 60s - 120s exposures

ACTION: Reeves to discuss use of XRT filter ratios to constrain high T_e DEM with proposers

3. Joint Observation with IRIS and BBSO/NST for Filament and Flare - Kai Yang (yangkaijilin@gmail.com), Savage/SSC (sabrina.savage@nasa.gov); HOP 317

- study filament formation and the flare-filament relationship at different levels
- coordination with BBSO/NST and IRIS; target: AR with high flare probability and including a filament, on-disc observation
- observing interval: 13th - 18th August; 18:00 UT - 21:00 UT
- SOT can provide fast mode maps at 20 min cadence; XRT uses thick Be/thick Al for flares; EIS suggests use study ID #458 for low activity (flares < C5) but for flares > C5 use flare trigger with ID #458 as response study
- proposers should suggest alternative programme for a “no active region” situation

4. Hi-C II Sounding Rocket Support - Savage (sabrina.savage@nasa.gov); HOP 318

- obtain coincident data with Hi-C II rocket flight to provide context for high resolution EUV data
- coordinated observations with DST/IBIS, DST/ROSA and DST/FIRS
- launch window: 18:41 UT - 19:41 UT on 19th July
- request to XRT is fine; required new EIS studies are on database; SOT will provide SP maps, but at a low cadence if the target is on the limb; IRIS programme also agreed.

5. SST-IRIS-Hinode Campaign - Tarbell (tarbell@lmsal.com); HOP 257

- obtain very high cadence, high spatial resolution observations of the photosphere and chromosphere with CRISP to accompany the IRIS spectra and images of the chromosphere and transition region
- coordinated observation schedule: **23rd September - 6th October**; Time: **08:00 UT - 11:00 UT** with possible extension for flare watch to **11:00 UT - 17:00 UT**

6. Moving Magnetic Features in the Periphery of Sunspots - Wang (wangjx@nao.cas.cn), Sekii (sekii@solar.mtk.nao.ac.jp); HOP 319

- observe a mature sunspot near disc centre; one or two developing young sunspots near disc centre are also possible targets
- coordinated observation with BBSO/NST
- observing interval: **25th - 31st August**; Time: **17:00 UT - 23:00 UT**
- XRT suggests AL/poly filter; **EIS** asked to provide velocity measurements; **SOT** can provide requested SP scans
- proposers should complete a standard HOP submission form

The continuing monthly observations are:

- **Polar Monitoring - Shimojo; CORE HOP 81**
- run on **5th July** (N pole fast), and **7th July** (S pole fast)
- **Synoptic SOT Irradiance Scans – Tarbell; CORE HOP 79**
- run on **21st July** (N/S only)
- **Multi-temperature Full Disk Slot Scans – Ugarte-Urra, Brooks, Warren; CORE HOP 130**
- run on **20th July**

e. Monthly Science Reports

- next **Hinode** monthly science report is being prepared by the **SOT Team** for ~ 7th July, 2016
- see http://hinode.msfc.nasa.gov/science_charts/ for template and previous charts

f. Date of Next Meeting

- next meeting: **21st July, 2016** at **07:00 JST**; **20th July, 2016** as appropriate in US/Europe

g. AOB

SSC welcomed **David McKenzie/MSFC** as a member