

## 111<sup>th</sup> Hinode SSC Meeting on 21<sup>st</sup> April, 2016 at 07:00 JST

### Short Summary, Conclusions and Actions

#### a. Program Status

##### 1. Instrument Status Review

SOT currently operating without its Filtergraph (FG) camera following an electronic fault. Team have decided that to attempt repair by turning on the camera briefly would pose unacceptable risk for SP and CT camera power supply; so this will not be done. 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 the telemetry allocations for the past month. SOT allocation was reduced below its agreed on-disc value of 54% for only one timeline - about half this time was spent limb pointing. Overall only 17% time was spent in limb pointing. This included HOP 81 polar pointing which is SP telemetry intensive. More targets should be sought for limb pointing.

##### 3. Community Announcement on FG Camera Problem

Prepared by **Tarbell** and **Savage**, this was circulated to the community via Hinode MSFC website

##### 4. Hinode 10 Website

This is now available on <http://hinode.stelab.nagoya-u.ac.jp/Hinode10/>

##### 5. FM Calendar

As yet no update on **EVE** launch date; still set for **25<sup>th</sup> May at 19:00**. **Hi-C II** launch currently set for **July 18<sup>th</sup>** is likely to slip

##### 6. 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. **Ongoing**

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

- routine HOPs **130, 79** and **81** were run as planned during **April**
- no difficulties reported with the running or scheduling the current HOPs
- following discussion, dates for the **May** running of **HOPs 130, 79** and **81** were agreed

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

#### 1. Transit of Mercury (ToM) 2016 May 9 - Pasachoff ([jay.m.pasachoff@williams.edu](mailto:jay.m.pasachoff@williams.edu)), Sterling ([alphonse.sterling@masa.gov](mailto:alphonse.sterling@masa.gov)), Reardon ([kreardon@nso.edu](mailto:kreardon@nso.edu)); HOP 303

- observe Mercury transit on **9<sup>th</sup> May, 11:00 UT - 19:00 UT**
- **SOT/SP** will briefly observe transit at central meridian passage; compare polarisation signals from around the planet with those obtained for the Venus transit
- **XRT** will obtain full-disc images of Mercury against the coronal background for outreach purposes
- **EIS** will obtain slot images with **HOP 284** study; **Reeves** and **Shine** will coordinate outreach material

#### 2. Understanding Small-scale Energy Release on the Sun - Na Deng ( ([na.deng@njit.edu](mailto:na.deng@njit.edu)), Chang Liu ([chang.liu@njit.edu](mailto:chang.liu@njit.edu)), Wang ([haimin.wang@njit.edu](mailto:haimin.wang@njit.edu)); HOP 304

- coordinated observation with the Big Bear New Solar Telescope (**BBSO/NST**); observing window: **24<sup>th</sup> - 28<sup>th</sup> May, 16:00 UT - 22:00 UT**; target: sunspots of any kind
- **SOT/SP, EIS** and **XRT** observations listed in HOP text; **IRIS** observation also agreed

#### 3. Magnetic and Dynamical Parameters of Active Region Filaments - Gomory ([gomory@astro.sk](mailto:gomory@astro.sk)), HOP 305

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- submitted as request for re-run of **HOP 180** in support of ground-based **GREGOR** observations with telescopes in Austria, Poland and Slovakia also involved
- observing window: **19<sup>th</sup> - 26<sup>th</sup> June; 07:30 UT - 13:30 UT** for optimum seeing in Europe
- **EIS** and **IRIS** participation requested; no request to **XRT** or **SOT**
- **IRIS** studies as described in HOP text; **EIS** studies as described for **HOP 180**

#### 4. Short-term Active Region Brightening - DePontieu ([bdp@lmsal.com](mailto:bdp@lmsal.com)), Tarbell ([tarbell@lmsal.com](mailto:tarbell@lmsal.com)), Young ([pyoung9@gmu.edu](mailto:pyoung9@gmu.edu)), Testa ([ptesta@cfa.harvard.edu](mailto:ptesta@cfa.harvard.edu)); ToO HOP 306

- determine short-term evolution of AR magnetic field, chromosphere and transition region
- to be run preferably out of Hinode eclipse season; available after **4<sup>th</sup> August** with new **EIS** studies
- if possible run test of HOP before eclipse start in **May**, **EIS** study to be selected by **Young**

#### 5. Long-term Active Region Evolution - DePontieu ([bdp@lmsal.com](mailto:bdp@lmsal.com)), Tarbell ([tarbell@lmsal.com](mailto:tarbell@lmsal.com)), Testa ([ptesta@cfa.harvard.edu](mailto:ptesta@cfa.harvard.edu)); ToO HOP 307

- determine long-term evolution of AR magnetic field, chromosphere and transition region
- limb-to-limb observations of AR; observe for 14 consecutive days, 8 hr cadence; 1 - 1.5 hr duration
- **SOT/SP, XRT** and **IRIS** observations as in HOP text; **Warren** will suggest alternative **EIS** study
- coordination between **Hinode** and **IRIS** planners required to avoid SAA for both spacecraft

**6. BBSO-IRIS-Hinode Observations of Active Region Filament Evolution - Long**  
([david.long@ucl.ac.uk](mailto:david.long@ucl.ac.uk)); HOP 308

**BBSO contact; Chang Liu** ([chang.liu@njit.edu](mailto:chang.liu@njit.edu))

- study formation and evolution of an active region filament from creation to eruption
- observe active region filament; if none available observe leg of a quiet sun filament
- observing window: **1<sup>st</sup> May - 7<sup>th</sup> May**, duration: **4 - 6 hr** each day, time: **17:00 UT - 21:00 UT**
- **SOT/SP, XRT, EIS** and **IRIS** observations as in HOP text;
- target and pointing will be selected by proposer

The continuing monthly observations are:

- **Polar Monitoring - Shimojo; CORE HOP 81**
- run on **3<sup>rd</sup> May** (N pole fast), and **5<sup>th</sup> May** (S pole fast)
- **Synoptic SOT Irradiance Scans – Tarbell; CORE HOP 79**
- run on **12<sup>th</sup> May** (N/S only)
- **Multi-temperature Full Disk Slot Scans – Ugarte-Urra, Brooks, Warren; CORE HOP 130**
- run on **17<sup>th</sup> May**

**e. Monthly Science Reports**

- next **Hinode** monthly science report is being prepared by the **XRT Team** for ~ 11<sup>th</sup> May, **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: **26<sup>th</sup> May, 2016** at **07:00 JST**; **25<sup>th</sup> May, 2015** as appropriate in US/Europe

**g. AOB**

**Savage** is awaiting NASA approval for travel support for the upcoming **SPD** and **Hinode 10** meetings