

90th Hinode SSC Meeting on 24th July, 2014 at 07:00 JST

Short Summary, Conclusions and Actions

a. Program Status:

1. Instrument Status Review

SOT not quite nominal (see report of 63rd SSC); blurring and intensity changes now visible for 20% - 25% of the NFI field of view; NFI observations remain possible but will take a little longer; no change reported from **June** status.

Recent SOT bakeout halted due to unexpected telemetry problem during a real-time pass; problem not yet understood but instrument not affected; bakeout deferred to 22nd **July** now completed successfully.

XRT is nominal; single manual comands ignored by MDP, cause not yet understood but problem overcome by issuing manual comands in pairs; no issues so far with Filter Wheel #1 operation during eclipse season.

EIS is nominal.

2. Outcome of Second Focused Mode Ops Test

Savage circulated a summary of U-side team views; overall outcomes better then for first test; **SSC** discussion addressed:

- need to change from Saturday uploads; experienced staff not available at weekends

ACTION: Savage to discuss this issue with **Shimizu-san**

- need to avoid hardware and software changes during focused mode weeks
- need to enhance pre-planning communication with COs/CPs who should be clear on target selection recommendations particuarly for the Quiet Sun; SSC will consider additional communication methods

3. Changes to Instrument Telemetry (on-board storage) Allocation

ACTION: Any telemetry allocation change agreements for a HOP should be communicated to Watanabe for inclusion in the Monthly Events listing and ideally in the HOP list; Ongoing

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

ACTION: Cirtain and Savage to consider modification to HOP guidelines and formulation of requests to HOP proposers regarding the productivity of their HOPs

Savage circulated a draft scheme for information gathering on HOP productivity that included information sorting and a web-based display; **ACTION: Ongoing**

Tarbell reported on publications arising from the **IRIS/Hinode/La Palma SST** coordination (**HOP 236**)

- other actions have been closed

c. Review/Discussion of Open HOPs and ToOs

- routine **HOPs 240, 81, 130 and 79** were run as planned during **July**
- proposed dates for their **August** running were agreed and slightly changed post-meeting to maintain appropriate time spacing

d. Review of New Proposals and Scheduling of Observations

1. Spectro-polarimetric Observation of a Sunspot: Coordination with GREGOR GRIS – Orozco (dorozco@iac.es), Katsukawa (yukio.katsukawa@nao.ac.jp) – HOP 258

- coordinated observation with GREGOR telescope at Observatorio del Teide
- optimum observing times: **09:00 UT to 12:00 UT and 15:00 UT to 17:00 UT; observing time selection in September to be agreed**
- must give **priority for target selection** to **IHOP 257** which is operating in the same time zone

2. Detection of Solar Oscillations in Sunspot (or Plage) Regions– Su (slt@bao.ac.cn), Bai, Hinode contact: Watanabe (watanabe@uvlab.mtk.nao.ac.jp) – HOP 259

- coordinated observation with 1.6m NST telescope at Big Bear Solar Observatory
- optimum **Big Bear** observing time: **17:00 UT to 21:00 UT**
- agreed that **HOP 259** be scheduled for the interval **1st to 6th August, 2014**

3. Understanding the Formation, Heating and Initiation of Magnetic Flux Ropes – Li (lying.nju@gmail.com), Cheng, Ding, Hinode contact: Watanabe (watanabe@uvlab.mtk.nao.ac.jp) – ToO HOP 260

- coordinated observation with 1.6m NST telescope at Big Bear Solar Observatory
- optimum **Big Bear** observing time: **17:00 UT to 21:00 UT**
- agreed that **ToO HOP 260** be scheduled for the interval **18th to 24th August, 2014**
- **Reeves** will advise on choice of XRT filter for flare observations

4. Formation and Oscillation of Active Region Filaments – Zhang (zhangqm@pmo.ac.cn), Ji, Chen, Hinode contact: Shimizu (shimizu@solar.isas.jaxa.jp) – HOP 261

- coordinated observation with 1.6m NST telescope at Big Bear Solar Observatory
- optimum **Big Bear** observing time: **17:00 UT to 21:00 UT**
- agreed that **ToO HOP 261** be scheduled for the interval **25th to 30th August, 2014**

5. Kelvin-Helmholtz Instability in Coronal Loops – Antolin (patrick.antolin@nao.ac.jp),
Hinode contact: Shimizu (shimizu@solar.isas.jaxa.jp) – HOP 262

- coordinated observation with Swedish Solar Telescope (SST), La Palma
- optimum SST observing time: **07:30 UT to 12:00 UT**
- agreed that **HOP 262** be scheduled for the interval **20th to 29th August, 2014**

6. Joint Flare Observations in Support of Dunn Solar Telescope (DST) Service Mode Operations with ROSA, IBIS and FIRS - Tritschler, Milligan, Cauzzi

- request for Hinode to support DST service mode observations of solar flares
- support requested for **October, 2014**; optimum observing time: **14:30 UT to 18:30 UT**
- call for proposals issued by the DST group with deadline of **15th August, 2014**
- sample EIS flare diagnostic study presented would require **973 Mbits** for a **4 hr** observation
- SSC felt that difficulties and uncertainties, including scientific assessment of upcoming service mode submissions were presented by this proposal
- **SSC** asked **Mariska** to contact **Milligan** for clarification of several points; **email sent post-meeting**
- proposers invited to consider these points and resubmit **HOP** for **SSC** meeting on **20/21 August**

7. Prominence-Coronal Cavity Systems: Cyclic Mass Transport and magnetic Flux Emergence – Liu (weiliu@lmsal.com), Berger, De Pontieu, Hinode Contact: Okamoto (take@joten.info)

- important but complex observation with long duration (7 – 14 days); suggested run during a focused mode week or end of one week and start of next; possible **ToO** to ensure optimum target selection
- observation windows proposed for **October, 2014** and **March – April, 2015** to avoid eclipse seasons; possible observation trial in **October** with full run in **March/April, 2015** was discussed
- **SSC** asked **Tarbell** to report SSC discussion to **Wei Liu** and invite resubmission to **August** meeting

8. Magnetic and Thermodynamic Structure of Prominences and Filaments – Schwartz (pschwartz@astro.sk), Balthasar (hbalthasar@aip.de), Hinode Contact: Culhane (j.culhane@ucl.ac.uk)

- request for joint **EIS** observations with **VTT, Tenerife** and **COMP-S, Lomnický Peak, Slovakia**
- schedule **09:00 UT – 12:00 UT** on **2nd to 16th September**
- **SSC** noted that **HOP 257** and **SST/La Palma** observations had previously been selected for interval **30th August to 9th October** and would be in the same time zone
- **SSC** agreed that **HOP 237** targets could be communicated to the proposers

9. Searching for Non-Maxwellian Distributions with Comp-S – Dudik (jd584@damtp.cam.ac.uk), Dzifcakova (elena@asu.cas.cz), Williams, Del Zanna, Mason, Rybak, Hinode Contact: Williams (d.r.williams@ucl.ac.uk)

- request for joint **EIS** observations with **COMP-S, Lomnický Peak, Slovakia**; best available seeing at **Lomnický Peak** in **September/October**; three week interval desired; time: **08:00 UT to 12:00 UT**
- important observation for investigation of dynamic heating processes in coronal loops
- **SSC** suggested resubmission to **August** meeting with request for specific interval after **9th October**
- need to decide whether selection of off-limb AR target requires **ToO** status

The continuing monthly observations are:

- **Temporal Evolution and Magnetic Polarity Reversal of the Sun's Polar Magnetic Patches – Suematsu (suematsu@solar.mtk.nal.ac.jp); HOP 240**
- run on **29th July** (S-Pole movie) and **31st July** (N-Pole movie)
- **Polar Monitoring - Shimojo; CORE HOP 81**
- run on **12th July**; **S pole** and **14th July**; **N pole**; **fast scans**

- **Multi-temperature Full Disk Slot Scans – Ugarte-Urra, Brooks, Warren; CORE HOP 130**
- run on **5th** and **26th** August
- **Synoptic SOT Irradiance Scans – Tarbell; CORE HOP 79**
- run on **19th** August (N-S) and **21st** August (E-W)

e. Monthly Science Reports

- next Hinode coordinated science report, based on recent highlights selected by the teams, is complete
- See http://hinode.msfc.nasa.gov/science_charts/ for template and previous charts

f. Date of Next Meeting

- next meeting: **21st** August, 2014 at **07:00 JST**; **20th** August, 2014 as appropriate in US/Europe

g. AOB

- **Savage** again reminded the meeting that **US** groups should inform **NASA** on the number of their contract-supported staff that will be attending the **November LWS/Hinode-8/IRIS Workshop**