181st Hinode SSC Meeting on 17th February, 2022 at 07:00 JST

Short Summary, Conclusions and Actions

a. Program Status

1. Instrument Status Review

Report on the Hinode recovery process was prsented by **Shimizu-san**. Decision to use manual mode for uploads to reduce risk of going into safe mode. Expect to go to normal mode operation by **4th March** and to start uploads for normal observstions by **5th March**. Spacecraft attitude will be checked in detail befoe this date. Orbital data will be used to monitor the geomagnetic sensor status for drift rate determination. Current estimated drift rate is not large enough to impact observational data. Each instrument status is good.

SOT has been switched on for two days and is so far nominal.

XRT has been switched on for a week and is so far nominal. It is currently in bake-out mode. It will acquire images to monitor spacecraft roll. Orientation should be confirmed by **17th February/AM.** Spacecraft roll will then be adjusted to get solar north upright.

EIS has been switched on for two days and is so far nominal.

2. Report on Changes to Instrument Telemetry Allocation

There are no further reports on telemetry allocation changes.
No issues with the new arrangement for periods when telemetry useage is unusually high have been reported.

3. FM Calendar

Not relevant given current spacecraft status

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.

EIS Observations for **HOP 429** not yet fully agreed; **Matthews** to discuss with **Parenti**
HOP 429 description should be updated
IRIS request for **HOP 430** has been agreed; details to be uploaded to the HOP list
XRT and EIS teams should suggest low data rate observations for **HOPs 431, 432** and **433**

c. Review/Discussion of Open HOPs and ToOs

- **Reeves** has updated XRT observation plan for **HOP 429** and is happy with HOP text; may require additional telemetry
- discussions with **Parenti** are continuing for **HOP 429** EIS observarions; EIS telemetry requirement is large
- discussions are also continuing regarding IRIS observations for **HOP 429**
- for **HOPs 430 – 433:** XRT will submit an observation plan; EIS plan has been completed and is being discussed by **Warren** and **Brooks**, full-disc mosaic is not practical;
- Herschel rocket scheduled for launch on **7th March** has an existing HOP; proposed EIS observation is not ideal; full disc slit mosaic probably not achievable; possibly run HOP 130 on **5th March**, two days before launch; **Matthews** will discuss with **Warren**
- HOP **130** may be difficult to accommodate; a decision is required
- for **HOP 81**: S Pole Deep can be run as scheduled; N pole Fast should be moved to **9th March**; **Shine** will circulate final schedule for continuing monthly observations
- **HOP 393** run on 5th March should be skipped; **HOP 336** run on **7th March** should be skipped
- **HOP 344** to be considered for a run after the main Solar Orbiter campaign has been completed; possible dates are **24th/25th April**; **De Pontieu** to confirm

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

Three new HOP proposals were submitted

1. **Coordinated Hinode-IRIS-Solar Orbiter observations on Slow Solar Wind Connection – Yardley** (stephanie.yardley@ucl.ac.uk), **Baker, Matthews, Brooks, Long**, **Matthews/SSC, Culhane/SSC**; **HOP 434**

- ccoordination of Hinode/EIS and IRIS with SO/SPICE observations taken during the slow solar wind connection (SOOP)
- dates: two observing windows required in coordination with the slow wind connection (SOOP); window #1: **3rd - 6th March;** window #2: **17th – 22nd March**
- time windows: #1: 06:00 UT **3rd March**–18:30 UT **6th March**; #2: 06:00 UT **17th March**–00:00 UT **22nd March**
- targets: upflow regions at the boundary of an active region or a coronal hole boundary (on disc)
- no SOT requests
- details of XRT, EIS and IRIS requests are given in the HOP list

2. Observations of a Coronal Hole During PSPs 11th Encounter– Hofmeister (shofmeister@aip.de) Savage/SSC, Watanabe/SSC, De Pontieu/SSC; HOP 435

- support PSPs 11th encounter by performing a mosaic scan over a single coronal hole
- dates: one - two days between **22nd -26th February**; exact dates to be specified to coordinate best with other observatories
- time window: observe for ~ 5 hr between 16:00 UT and 23:00 UT to enable GST and DST coordination
- target: low latitude coronal hole
- details of SOT, XRT, EIS and IRIS requests are given in the HOP list
- wish to coordinate observations with **HOP 408** and **HOP 409**

3. AR Long-term Monitoring at High Resolution with Hinode and Solar Orbiter – Bellot (lbellot@iaa.es), De Rosa/SSC, Shine/SSC; HOP 436

- study the long-term evolution of magnetic flux and dynamics of ARs disentangling intrinsic changes from projection effects
- dates: Solar Orbiter will monitor AR from **31st March /** 17:56 UT to **4th April /** 16:20 UT; Hinode support requested from **24th March /** 17:45 UT to **4th April /** 16:20 UT; if available telemetry allows, start Hinode support from **21st March /** 17:45 UT and run to **4th April /** 16:20 UT
- time window: if possible start SOT/SP rasters at 05:45 UT, 11:45 UT, 17:45 UT and 23:45 UT each day to synchronize with the SO/PHI, SO/EUI and SO/SPICE observations.
- targets: AR in western hemisphere ideally going beyond limb after **31st March /** 17:56 UT; if Hinode starts observations 7 days earlier than SO, AR near central meridian would be fine; if no AR present, a coronal hole or western hemisphere network cell will be tracked
- details of SOT, XRT, EIS and IRIS requests are given in the HOP list; IRIS details will be updated
- coverage of selected AR will extended as far back in time as possible using SDO/HMI and AIA

Continuing monthly observations are:

- **HOP 206 – March** dates are: **7th, 10th, 13th, 16th , 19th** and **22nd**

- **Polar Monitoring - Shimojo; CORE HOP 81**
- run on **9th March** (N pole fast) and **5th March** (S pole deep)

- **Multi-temperature Full Disk Slot Scans – Ugarte-Urra, Brooks, Warren; CORE HOP 130**
- run on **5th** and **22nd March**

- **Synoptic SOT Irradiance Scans – Egeland, Centeno; CORE HOP 412**
- run on **24th March**

- **Cycle 25 Bright Points - Bryans , Centeno, Savage; HOP 336**
- run every Monday; **14th, 21st** and **28th March** (note: skipping **7th March)**

- **Cycle 24/25 Equatorial Transition - Egeland, Bryans, Centeno, Savage, Watanabe, De Pontieu; HOP 393**
- run every Saturday**; 12th, 19th** and **26th March** (note: skipping **5th March**)

Monthly Science Reports

- next **Hinode** monthly science report will be prepared by the **EIS Team** by **14th April**
- **NOTE**: Science chart site access has been changed due to IT requirements; **Savage** has established a new Google drive site for template and previous chart
- provide one summary slide for Hinode team management at MSFC and two additional slides for NASA HQ

f. Date of Next Meeting

- next meeting: **17th March, 2022** at **07:00 JST**; **16th March, 2022** as appropriate in US/Europe

g. AOB

Continue to assist Bernhard Fleck in writing the ESA mission extension proposal.