

# Draft Minutes of the 24<sup>th</sup> Solar Orbiter SWT Meeting

Florence, 2-4 April 2019

Prepared by Yannis Zouganelis & Daniel Müller

All presentation files at Solar Orbiter web pages <http://www.cosmos.esa.int/web/solar-orbiter/> ('Science Team' → 'SWT Documents')

Start of meeting: Tuesday 2 April at 14:00

- **Introduction:** Daniel Müller welcomed the participants. He presented the agenda and the minutes of SWT #23, which were approved without modification.
- **ESA Project Status** (see presentation by Cesar Garcia Marirrodriga):
  - See presentation for the following topics:
    - Overall progress
    - Schedule
    - Payload AIT for TVTB test
    - AIT progress
    - Ground segment development
    - Launch services
    - Schedule risks
    - Technical risks
    - QAR procedure & schedule
    - Contamination control status
    - Mechanical testing and alignment status
    - Support to EVT campaign
    - Inter-instrument communication test
    - Status of instruments requests
    - FSW upgrades
    - FDIR changes
    - TVAC TRB
    - E&H field characterisation
    - RPW-MAG timing test
    - New communication scheme with instrument teams

Discussion Summary:

Regarding the CSW version, Cesar Garcia pointed out that, if ready, the version 3.1 would be used for launch.

Regarding the possibility of launch from Vandenberg, Cesar Garcia confirmed that the spacecraft was not qualified and that such qualification would approximately need one month.

Tim Horbury informed the SWT about the background noise of the magnetic testing facility at IABG, which is much higher than expected.

- **NASA Project Status** (see presentation by Chris St Cyr, presented by Mike Delmont):
  - See presentation for the following topics:
    - Solar Orbiter related changes at NASA
    - Solar Orbiter - NASA status

- Launch Vehicle status
  - SIS & SPICE - NASA status
  - Public communication and guest operations at launch site
  - Communications pre-launch
- **MOC Status** (Sylvain Lodirot):
    - See presentation for the following topics:
      - MOC status
      - Instrument roadmap
      - SVT1A preparation status
      - Commissioning (timeline), E2E and SW uploads
      - EDDS/GFTS questionnaire
- **SGS Status** (Luis Sánchez):
    - See presentation for the following topics:
      - Milestones
      - Informal internal milestones - Schedule
      - Science operations
      - Science Ground Segment validation
      - External interfaces
      - SGS validation next steps
- **Parker Solar Probe Status** (see presentation by Russ Howard).
- **PI Reports: See presentations for instruments status, major concerns and pending activities**
    - **EPD** (Javier Rodríguez-Pacheco)
    - **EUI** (David Berghmans)
    - **MAG** (Tim Horbury)
    - **METIS** (Marco Romoli)
    - **PHI** (Sami Solanki)
    - **RPW** (Milan Maksimovic)
    - **SoloHI** (Russ Howard)
    - **SPICE** (Andrzej Fludra)
    - **SPICE Operations** (Frédéric Auchère)
    - **STIX** (Säm Krucker)
    - **SWA** (Chris Owen)

### **End of PI Reports**

- **Discussion summary on Low Latency data policy:**
  - Following the discussion at SWT-23 regarding the Low Latency data policy (see SWT-23 minutes), all instruments have now agreed to make public all Low Latency data as soon as they have been sufficiently validated.

- **Mission-level planning for the Cruise Phase and LTP for May-July 2020** (Yannis Zouganelis & SOC):
  - See presentation for details. The following decisions were taken during the meeting:
    - The planned Cruise Phase Remote Sensing campaigns were reviewed by the RSWG and were confirmed to be complete. However, there are still some inconsistencies in the coordinated campaigns, in particular in RSCW4. These are reported in [Summary of changes made to original Cruise Phase plan for RS payload](#). **The RSWG took the action (SWT-24-AI-1) to review and update these campaigns before SOWG #14 (July 2019).**
    - The SWT reviewed the In-Situ data rates optimisation proposal presented at the meeting. The details of this proposal can be found in [IS data rates optimisation](#). The SWT proposed to cut the first low mode period (Aug-Dec 2020) in two and add a period of normal rate (~4 weeks) in the middle around the time of the PSP perihelion (27 Sep 2020). **The ISWG took the action (SWT-24-AI-2) to work out the details for each instrument before SWT #25 (October 2019) and update the test plan in SOOP kitchen.** The SWT agreed with the rest of the optimised plan presented by the SOC and described in the above link.
    - The SWT has agreed to implement the star ( $\alpha$  Leo) calibration opportunity during June 2020, presented by the RSWG (see separate presentation by F. Auchère). The exact period of star observations depends on the exact launch date and will be updated after launch.
    - The RSWG proposed to test the SPROUT SOOP, i.e. the out-of-window synoptic Remote Sensing programme on the last day of the RSCW4. The details need to be worked out.
    - The SWT appointed the following coordinators for the LTP planning (period up to July 2020): Tim Horbury (In-Situ science), Vincenzo Andretta (star calibration activities), Frédéric Auchère (RS alignment activities).
    - There are no other decisions needed at SWT-level regarding the LTP planning up to July 2020.
    - A dedicated SAP planning workshop at SWT-level for the Nominal Mission Phase will be held in autumn 2020.
- **Mission Book update** (Yannis Zouganelis):
  - See presentation.
  - All papers have to be submitted by end of June 2019, otherwise there is a significant risk that the special issue will not be ready by launch. After copy-editing, the accepted papers will be online at the following A&A link: <https://www.aanda.org/component/toc/?task=topic&id=1082>
- **Solar Orbiter VR outreach project** (Miho Janvier):
  - See presentation.
- **Outreach & communications** (Daniel Müller):
  - See presentation.
  - **Action SWT-24-AI-3: Each PI team and each LFA is requested to provide a point-of-contact for communications (name, email and phone number) by 16 April 2019.**
- **MADAWG report:**

- The MADAWG report was not presented at the SWT due to lack of time.
- The presentation prepared by Alexis Rouillard is included in the presentation package.

- **AOB:**

- Future meetings:
  - SOWG #14: 10-11 July 2019, ESAC, Madrid.
  - MADAWG: 11-13 September 2019, London.
  - SWT #25: 16-17 October 2019 at ESTEC.
  - SWT #26: TBD (February 2020 at launch site).
  - Science Workshop #8 + SWT in Ireland (date TBD, POC: L. Harra, T. Horbury/C. Owen).
  - Science Workshop #9 + SWT in France (date TBD, POC: M. Maksimovic).
  - Science Workshop #10 + SWT in Göttingen, Germany (date TBD, POC: S. Solanki).
  
- Other meetings of interest:
  - PSP SWG #17, 6-7 June 2019, Univ. of Michigan.
  - PSP SWG #18, 21-22 November 2019, Caltech
  - SHINE, 5-9 August 2019, Boulder, CO (TBC).
  - AGU Fall meeting: 9-13 December 2019, San Francisco.
  - PSP Science Workshop, 23-27 March 2020 at APL.
  - ESPM-16, 7-11 September 2020, Torino.
  - Solar Wind 16 Meeting, June 2021 (Pacific Grove, California, hosted by S. Bale).

End of meeting: 3 April 2019, 18:00.



## Annex

### List of Participants SWT-24

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