

**SMILE SWT #17 and consortium #11**  
**微笑卫星科学工作组 #17 及联合工作组 #11**  
**Webex, 13-16 April 2021**  
**Agenda**

**Tuesday, 13 April 2021**

**Webex info (valid for the four days):**

<https://esait.webex.com/esait/j.php?MTID=ma36e70f22d988fc0c878e50b75486a94>

Meeting number: 181 702 6090

Meeting pass: My2MJ3iAG7

**24<sup>th</sup> MWG meeting on 13 April, 2021**

Chair – Hyunju Connor & Tianran Sun

**Session 1 (9:00 – 11:30 CEST)**

**Chair: Tianran Sun**

*30min per speaker (talk + questions) and 30min discussion at the session end*

1. Bin Zhang: A new global geospace model
2. Jaewoong Jung: Development of a simplified magnetosheath model based on OpenGGCM MHD simulation
3. Songwu Peng: Image simulation and analysis on the focal plane of SXI
4. Hyunju Connor: Exospheric density extracted from the IBEX ENA observations

**Break (11:30 – 12:00 CEST)**

**Session 2 (12:00 – 14:30 CEST)**

**Chair: Hyunju Connor**

*30min per speaker (talk + questions) and 30min discussion at the session end*

5. Jennifer Carter: Comparison between MHD and observation of cusp spots
6. Andrey Samsonov: Magnetospheric masking: does a universal method exist?
7. Andy Read: The X-ray Peak and the Magnetopause Tangent: extending to a SMILE-SXI all-mission study across different solar wind densities

**Break (14:30 – 15:00 CEST)**

**Session 3 (15:00 – 17:30 CEST)**

**Chair: Andrey Samsonov**

*30min per speaker (talk + questions) and 30min discussion at the session end*

9. Ravindra Desai: Interplanetary Shock-Induced Magnetopause Motion in Gorgon Global-MHD Simulations
10. Dimitra Koutroumpa: SWCX compound cross section calculations relevant to the SMILE/SXI instrument
11. Ferdinand Plaschke: Magnetosheath jets: on scale sizes, impact rates, and the transport of mass, momentum, and energy
12. Philippe Escoubet: High Speed Jets observed from MMS and Cluster (possible relocation to the 3rd day SWT meeting)
8. Tianran Sun: XMM-Newton Observations of a CME event

**Wednesday, 14 April 2021**

**Start 09:00 CEST (Summer time in Europe) (15:00 Beijing Time)**

**Science Working Team meeting**

Morning #1 (09:00-10:30) - Chair: Graziella Branduardi-Raymont

1. Welcome – Graziella Branduardi-Raymont/ WANG Chi / Philippe Escoubet
2. Minutes and action items from last SWT – Philippe Escoubet
3. CAS project status – LI Jing
4. Satellite design status – ZHU Xiao-Cheng
5. ESA project status – David Agnolon/Chris Runciman
6. Payload module status – Javier Sánchez Palma

**Coffee Break (10:30 – 11:00)**

Morning #2 (11:00-13:00) - Chair: WANG Chi

7. Payload status, ESA side – Walfried Raab
8. Payload status from PIs
  - LIA – KONG Ling-Gao/DAI Lei/Dihiren Kataria/Matthieu Berthomier
  - MAG –Jin-Dong WANG/Lei LI
  - SXI – Steve Sembay
9. Orbits, Views, Efficiencies & Pointings– Andy Read
10. SMILE Orbit Analysis – LI Fei
11. Chinese Ground Support System – MA Fuli

**Lunch/Dinner (13:00- 14:00)**

Afternoon #1 (14:00-16:00) - Chair: Philippe Escoubet

12. Chinese ground segment: Science Application System – DAI Lei
13. ESA science operations - Catarina Alves de Oliveira/ Andrew Walsh
14. Ground-Based and Additional Science Working Group report– Jenny Carter
15. Outreach Working Group report - Graziella Branduardi-Raymont/Arnaud Masson
16. UVI - Eric Donovan

**End of Day 1: 16:00 (22:00 Beijing time)**

**Thursday, 15 April 2021**

**Start 09:00 CEST (Summer time in Europe) (15:00 Beijing Time)**

Morning #1 (09:00:11:00) - Chair: SUN Tianran

17. Modeling working group - Hyunju Connor / SUN Tianran
18. Mission/instruments/other publications – All
19. Geomagnetic activity prediction – LUO Bingxian
20. SMILE directory and CoI lists (incl PI input on instr. CoIs) – Philippe Escoubet
21. AOB
  - Date and place of next SWT
  - Update of launch date on the web

## Science/instrument/other talks (15 min talks + 5 min questions)

22. Geosynchronous magnetopause crossings and their relationships with magnetic storms and substorms – Andrey Samsonov

**Morning Break (11:00 – 11:15)**

Morning #2 (11:15-13:00 TBC) - Chair: Jenny Carter

## Science/instrument/other talks (15 min talks + 5 min questions) cont

23. Identifying the plasmopause location from global auroral image data - Michaela Mooney  
24. UV mirror coatings for UVI - Jérôme Loicq  
25. Modeling of ionospheric UV emission for the SMILE mission - Jun Liang  
26. EXACT: Exploring the Earth's X-ray aurora with a Cubesat - Graziella Branduardi-Raymont  
27. Multipoint Observations of Magnetosheath Response to Foreshock Transients - Cai Chun-Lin

**End of meeting: 13:00 (19:00 Beijing time) TBC**

**Friday, 16 April 2021**

**Madrid, Spain - 14:00 CEST / Beijing, China – 20:00 CST / Leicester, UK - 13:00 BST / Calgary, Canada - 06:00 MDT / Longueuil, Canada – 08:00 EDT**

## Data format and calibration working group

### Webex

Chair – Catarina Alves de Oliveira

#### Topics:

1. SMILE Metadata Standard applied to LIA science data [30 minutes, A. Walsh and LIA team, all]
2. SMILE Metadata Standard applied to MAG science data [30 minutes, A. Walsh and MAG team, all]
3. Discussion on the representation of imaging science data [30 minutes, all]
4. SMILE Metadata Standard applied to SXI science data [30 minutes, A. Walsh and SXI team, all]
5. SMILE Metadata Standard applied to UVI science data [30 minutes, A. Walsh and UVI team, all]
6. Any additional topics?