

SMILE SST #10 and Consortium #4 meetings
College Court, Leicester, UK 17-19 October 2017

Agenda

Monday, 16 October 2017

19:00 – Dinner (included for those staying at College Court on the evening of 16 Oct.)

Tuesday, 17 October 2017 – 09:00

Science Study Team meeting (open to all Consortium meeting participants)

1. Welcome – Steve Sembay/Graziella Branduardi-Raymont/Chi WANG
2. Minutes and action items from last SST – Philippe Escoubet
- 1 3. ESA study status – David Agnolon
- 2 4. China study status – Jing LI/Jian-Hua ZHENG
- 3 5. Spacecraft status (SECM) – Hua-Wang LI/Jin-Pei YU/Zhi-Ming CAI/Na MENG
- 4 6. Payload status, ESA side – Walfried Raab
7. Payload status overview
- 5 - UVI – Eric Donovan

13:00 – 14:00 Lunch

- 6 - SXI – Steve Sembay
- 7 - LIA – Ling-Gao KONG
- 8 - MAG – Lei LI/Jin-Dong WANG
- 9 8. Science requirements – Philippe Escoubet
- 10 9. Chinese Ground Support System – Ji-Zhou TONG
- 11 10. Chinese ground segment: Science Application System – Lei DAI
- 12 11. ESA science operations - Harri Laakso
12. AOB
- DONM

19:00 – Dinner

Wednesday, 18 October 2017

Allocated times (20 and 30 min) include time (3 and 5 min respectively) for questions.

Instrument specific and mission topics

Chair: Jing Li

- 13 • 09:00 – 09:20: Update of SXI CCD development on ESA side – Walfried Raab
- 14 • 09:20 – 09:40: Design and expected performance of SXI CCDs – Andrew Holland
- 15 • 09:40 – 10:00: Radiation testing and calibration plans of SXI CCDs – David Hall
- 16 • 10:00 – 10:20: Baselineing the SXI X-ray event detection algorithm – Matthew Soman
- 17 • 10:20 – 10:50: Orbits, views, efficiencies – Andy Read

10:50 – 11:20 Coffee break

Chair: Graziella Branduardi-Raymont

- 18 • 11:20 – 11:40: Off-set determination of magnetic field data & SMILE-relevant science in Graz – Rumi Nakamura
- 19 • 11:40 – 12:00: SMILE SXI Pipeline Processing System – Andy Read
- 20 • 12:00 – 12:20: Science data products – Jenny Carter
- 21 • 12:20 – 12:40: Highly monochromatic Soft X-ray Beam Source for SXI Calibration – Yi-Hong GUO
- 22 • 12:40- 13:00: Space radiation on the optical components and sensors – Jia LIU

13:00 – 14:30 Lunch

Science/Consortium topics

Chair: Philippe Escoubet

- 23 • 14:30 – 15:00: Magnetosheath, bow shock and other research topics – David Sibeck
- 24 • 15:00 – 15:20: 3D magnetopause position identified from 2D X-ray image – Tian-Ran Sun
- 25 • 15:20 – 15:40: OCB identification and reconnection voltage estimate using FUV imaging – Benoit Hubert
- 26 • 15:40 – 16:00: Swarm mapping of field aligned currents – Malcolm Dunlop

16:00 – 16:30 Coffee break

Chair: Tian-Ran Sun

- 27 • 16:30 – 16:50: Magnetospheric X-ray images obtained from global MHD simulations – Andrey Samsonov (via Webex/Skype)
- 28 • 16:50 – 17:10: In-situ statistics of magnetosheath and cusp – Andrew Dimmock
- 29 • 17:10 – 17:30: Mid-altitude cusp properties: simultaneous Cluster observations at different MLT sectors – Yulia Bogdanova
- 30 • 17:30 – 17:50: Substorms and the radiation belts – Colin Forsyth
- 31 • 17:50 – 18:10: Exospheric neutral density at 10 R_E subsolar point deduced from XMM-Newton observations and a global MHD model – Hyunju Connor (via Webex/Skype)

19:00 – Dinner

Thursday, 19 October 2017

Chair: David Sibeck

- 32 • 09:00 – 09:20: Cluster/ground-based observations of the spatial extent and bursty nature of dayside reconnection – Robert Fear
- 33 • 09:20 – 09:40: An update on polar cap plasma flow and new research infrastructure in Scandinavia – Kjellmar Oksavik
- 34 • 09:40 – 10:00: How do ground based aurora observations relate to the SMILE data – Bin LI
- 35 • 10:00 – 10:20: Modeling and evolution of exoplanetary atmospheres & Research activities in Vienna – Kristina Kislyakova
- 36 • 10:20 – 10:40: SMILE orbit in Orbit Visualisation Tool – Philippe Escoubet **and movie (36a)**

10:40 – 11:10 Coffee break

- 37 • **Round Table 1:** SMILE links to ground measurements – Jenny Carter
- 38 • **Round Table 2:** SMILE outreach plans – Graziella Branduardi-Raymont

13:00 – 14:00 Lunch

- **Splinter meetings/Open discussion/Close of meeting**