

SMILE SST #11 and Consortium #5 meeting

Suzhou, China - 16-18 April, 2018

Sunday April 15th

- Hotel:
 - JINKE Grand Hotel(苏州金科大酒店), No.1969 Binhe road (滨河路 1969 号), Huqiu district (虎丘区), Suzhou city. Tel: +86 512 87666666, FAX:+86 512 87665500, email: yang.joyce@163.com
- Meeting place:
 - JINKE Grand Hotel(苏州金科大酒店), the Second Floor, JinLong Hall(金龙厅)
- Buffet Lunch: JINKE Grand Hotel, the first Floor, Xuan Gong Coffee Hall(璇宫咖啡厅)

Monday April 16th

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

9:00-18:00

Chair: Chi WANG

1. Welcome –Chi WANG/ Zhencai ZHU /Graziella Branduardi-Raymont / Philippe Escoubet
2. Minutes and action items from last SST – Philippe Escoubet
3. ESA study status – David Agnolon
4. China study status – Jing LI, Jianhua ZHENG, Jia LIU
5. Ground Segment SRR Summary-Jianhua ZHENG

10:50 – 11:00 Group Photo(Entrance steps of the Hotel)

11:00 – 11:20 Coffee break

6. Spacecraft status (SECM) – Wen CHEN, Huawang LI, Jinpei YU, Na MENG
7. Payload status, ESA side – Walfried Raab

12:00-13:20 Lunch

Chair: Philippe Escoubet

8. Payload status overview
 - 8.1 - SXI – Steve Sembay
 - SXI electronics Box which contains the SXI instrument controller-Manfred Steller
 - 8.3 - SXI: Status of RSE/RSM breadboard activities, and an update on plasma flow channels in the polar cap-Kjellmar Oksavik, etc
 - 8.4 - UVI – Eric Donovan
 - 8.5 - LIA – Current Status of LIA- Linggao KONG, Lei DAI, Aibing ZHANG
 - 8.6 - MAG – Lei LI, Jindong WANG
9. Science requirements justification– Philippe Escoubet
10. Chinese Ground Support System – Jizhou TONG
11. Chinese ground segment: Science Application System – Lei DAI

12. ESA science operations - Harri Laakso
13. Earth radius and Time format definition – all
- 14.1 & 14.2 14. Impact of 18 and 19Re apogee on science –Philippe Escoubet, Andy Read, Tianran SUN
15. Orbit Visualisation Tool demo – Philippe Escoubet
16. SMILE Logo-Tianran SUN
17. Proprietary time for data – all
18. Ground-Based and Additional Science Working Group report– Jenny Carter
19. In-situ Working Group report - Lei DAI
20. Outreach Working Group report - Graziella Branduardi-Raymont
21. Science Management Plan- Philippe Escoubet
22. DONM

18:30 – Welcome Dinner (NSSC and SECM will invite all of the participants), JINKE Grand hotel, the Second Floor, JinFeng Chinese Restaurant(金科酒店二楼金枫厅).

Tuesday April 17th

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

Instrument specific and mission topics

Chair: Graziella Branduardi-Raymont

23. 08:40 – 09:00: Instrument performance parameters and their impact on accuracy in determination of moments of ion distributions-Dhiren Kataria
24. 09:00 – 09:20: Jets in the magnetosheath: propagation and impact on the magnetopause - Ferdinand Plaschke
25. 09:20 – 09:40: High speed jets observed simultaneously with Cluster and MMS - Philippe Escoubet
26. 09:40 – 10:00: Study on the magnetopause indentations by imaging observation on SMILE- DeSheng HAN
27. 10:00 – 10:20: New results on the 3D-mirror mode calibration of magnetometer data-Ferdinand Plaschke
28. 10:20 – 10:40: Simulation of Magnetometer in-flight Calibration by Spacecraft Spinning-Yiteng ZHANG, Jindong WANG, Lei LI

10:50 – 11:20 Coffee break

Chair: Jing LI

29. 11:20 – 11:35: Data format working group report – H. Laakso
30. 11:35 – 11:50: Data archiving and sharing plan for SMILE mission –Zhen JI
31. 11:50 – 12:05: Some thoughts on the standards for SMILE data quality control and data exchange – Senlin XIONG
32. 12:05 – 12:20: Preliminary design of the L0 data product –Fuli MA
33. 12:20 – 12:40: Methods for getting/archiving data products from/to SSC –Lin CHEN
34. 12:40 – 12:55: GSS public service on Mobile Apps –Qi XU

13:00 – 14:30 Lunch

Chair: Harri Laakso

35. 14:30 – 14:45: Mission programming loop in MC-CAIXIA TIAN
36. 14:45 – 15:00: Payload Monitoring and Analysis Tools-Boquan LI

- 37. 15:00 – 15:15: Observation Plan Interaction and Validation Tools-Zhun FENG
- 38. 15:15 – 16:00: SST continue

16:00 – 16:30 Coffee break

Science/Consortium topics

Chair: Jenny Carter

- 39. 16:30 – 16:50: Ground-based support of SMILE in the Northern Scandinavia-Tima Sergienko
- 40. 16:50 – 17:10: Ground-based Support and Heliophysics Data Services in the USA-Syau-Yun Hsieh
- 41. 17:10 – 17:30: The coordination of SMILE with Swarm and other spacecraft– Malcolm W Dunlop
- 42. 17:30 – 17:50: Orbits, Views and SXI Observations and Science Files-Andy Read
- 43. 17:50 – 18:10: Canadian Ground-Based Auroral Data in Support of SMILE- Eric Donovan
- 44. 18:10 – 18:30: Examining the gains and losses of magnetic flux during substorms-~~Colin Forsyth~~
(Webex) Michaela Mooney

Wenesday April 18th

Chair: David Sibeck

- 45. 09:00 – 09:20: The exospheric neutral density near the subsolar magnetopause-Hyunju Kim Connor
- 46. 09:20 – 09:40: Oxygen ions energization in the cusp during storm-Suping DUAN
- 47. 09:40 –10:00: Fitting 3-dimensional boundaries from 2-dimensional data for SMILE- A. M. Jorgensen, Tianran Sun, Chi Wang, Lei Dai, Steven Sembay, Fei Wei, Yihong Guo, Ronglan Xu
- 48. 10:00 – 10:20: Fitting the X-ray emission function in the magnetosheath-Tianran SUN
- 49. 10:20 –10:50: Changes of subsolar magnetopause and cusp positions in response to solar wind variations: comparison of MHD and empirical models -Andrey Samsonov

10:50 – 11:00 Coffee break

- 49.1 11:00 – 11:30 Coffee break with discussions- **Graziella Branduardi-Raymont**

magnetospheric modelling with SMILE images interpretation and boundaries determination

Chair: Lei DAI

- 50. 11:30 – 11:45: Preliminary results from the remote sensing aurora and ionosphere on Fengyun-3D- Xiaoxin ZHANG, Jiawei LI, Tian MAO, Fei HE
- 51. 11:45 – 12:00: **Identification of the Polar Cap Boundary from Auroral Imagery-Eric Donovan**
- 52. 12:00 – 12:15: Dawn-Dusk Asymmetry in Dayside auroral Ovals: Surveys of dayside auroral emission and morphology in Arctic and Antarctica-Zejun Hu
- 53. 12:15 – 12:30: Synchronous interaction of ulf wave with low energy ions and energetic electrons: a Magnetospheric Multiscale observation-Bin LI
- 54. 12:30 – 12:45: Development of Microchannel Optics Simulation-Yihong Guo, Fei WEI, Yongsong WANG

13:00 – 14:00 Lunch

End of meeting. 14:30 One bus from Suzhou to Shanghai.