

**ISSI DA Meeting Agenda**  
**March 4-8, 2024**  
**NSSC Neptune Hall (A0411, 4th floor)**

Times below are approximate and account for discussions/breaks

**Monday – Start at 10:00**

- 10:30: **Jianhui He** – Feb. 2022 storm results and model comparison  
*Lunch Break*
- 14:00: **Lingxin Zhao**: 3-D Ionosphere Imaging at Middle-to-High Latitude in the Northern Hemisphere with Data Assimilation
- 15:00: **Xinan Yue** – Sanya Incoherent Scatter Radar Updates and Results
- 16:00: **Elvira Astafyeva** – “Unusual” geomagnetic storms for data assimilation case studies
- 17:00: **Sean Elvidge** – TI Data Assimilation and Validation

Group discussion on team progress and plan for validation paper

**Tuesday**

- 10:00: Working time – outline draft for validation paper (in-person participants)
- 11:30: **Charles Lin** – F7/C2 Ionosphere Assimilation  
*Lunch Break*
- 14:00: **Jianhui He** – Assimilation of NO for improved thermosphere density
- 15:00: **Tingwei Han**: Vertical Spatial Correlation of Ionospheric Day-To-Day Variations at Low Latitudes Based on COSMIC-2
- 16:00: **Claudia Borries** – GNSS positioning for ionosphere validation
- 17:00: ISSI Welcome Reception (Park Plaza hotel 1F)

**Wednesday**

- 10:00: Working time – writing & other discussions (in-person participants)
- 11:30: **Koichi Chen** – Neutral density assimilation in DART/TIEGCM  
*Lunch Break*
- 14:00: **Jiuhou Lei** – Global TEC reconstruction with optimization by Beidou GEO data through machine learning
- 15:00: **Nick Pedatella** – WACCMX+DART long term simulations
- 16:00: **Tim Kodikara** – DA activities at DLR
- 17:00: **Eelco Doornbos** – Space weather activities and validation at KNMI and thermosphere observations
- Discussions on paper writing progress

## **Thursday**

9:00: **Eric Sutton** – Data assimilation and Driver Estimation in WAM/IPE

10:00: Working time – writing & other discussions (in-person participants)

*Lunch Break*

14:00: **Dexin Ren** – Simultaneously specification of thermospheric and ionospheric density from parameter optimization of a physics-based model

16:00: **Tomoko Matsuo** – Coupled ionosphere-thermosphere data assimilation

17:00: **Sean Elvidge** – COSMIC 1DVar retrieval and bending angle assimilation (?)

Group discussions on paper status/plans and possible future directions

## **Friday**

Writing time and discussion of future collaborations and plans