

Recommendations from the
"P05-Ionosphere" session

About Swarm LP & GPS measurements

- Swarm early phase constellation (A, B, C all close each other with some min time separation) has been useful in the research of equatorial plasma sheet bubbles (drift motion) → To keep in mind when considering future changes in the constellation
- Parallel studies on polar cap patches are on-going in many research groups producing interesting new findings → A mini-workshop (ISSI Team?) dedicated to this topic might be useful
- Swarm can make significant contributions to Space Weather research and services →
 - Swarm data should be included to the next version of the IRI-model
 - Efforts to integrate Swarm observations to ESA-SSA should be continued

Benefit from STSE and Innovation+

- STSE and Innovation+ generate useful data analysis and visualization tools (NeSTAD, Swarm-Aurora...) →
 - Information about these tools should be available in one centralized location
 - Searching synergies with VirES
 - Funding mechanisms to ensure the continuity of these services should be found

Recommendations from other discussions

- Coordination of Swarm measurements (EFI particular) according to conjunctions with ground-based instrumentation and other satellites (including e-POP) has appeared to be useful →
 - Continuity should be ensured
 - A dedicated data service for these conjunctions would further catalyze their usage.
- From the perspective of meso-scale ionospheric electrodynamics the A-C longitudinal difference of 1.4-1.6° is too small, 2.5-3 ° would be better
- From the perspective of equatorial bubble and fine-scale auroral electrodynamics, sweeping the A-C longitudinal difference through 0 deg. is desirable
- High-latitude space-physics studies would benefit from having A and C cross over at equatorial latitudes
- Keep Swarm B aloft for at least 1 solar cycle