

Technical Page

This proposal has not been submitted before.

Proposal Type: Urgent
 General Category: Terrestrial Aeronomy
 Observation Category: Ionosphere
 Total Time Requested: 4 Hours
 Minimum Useful Time: 4

Proposal Title: Swarm observations Dec. 13 2013

ABSTRACT:

"We can reserve 'T2887' for this proposal." The LP employs an innovative modulation scheme for tracking spacecraft potential in real time in order to allow correction of ion velocity measurements. The LP will also simultaneously measure electron densities through its spherical probes, and ion density via the entire instrument faceplate, allowing intra-sensor comparison and calibration of those two quantities. ! The set of ISRs combines two different radar technologies. The first category comprises conventional steerable-dish and fixed-beam radars having well-characterized performance metrics and long observational track records. The second category consists of newer-design, electronically steerable phased arrays. The latter will allow time-coincident monitoring of multiple points along the trajectories of the three Swarm satellites (although their statistical measurement speed is unchanged from the first category, conventional systems).! Contribution: ISRs are the only instruments cap

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Remote Observing Request

- Observer will travel to AO
- Remote Observing
- In Absentia (instructions to operator)

Instrument Setup

Atmospheric Observation Instruments:

Ionosonde

Special Equipment or setup: none

RFI Considerations

Frequency Ranges Planned