

Technical Page

Proposal Type: Regular
 General Category: Terrestrial Aeronomy
 Sub-Category: Radar
 Observation Category: Ionosphere
 Total Time Requested: 40 Hours

Proposal Title: Substorm electric field as seen by the Arecibo IS radar

ABSTRACT:

Relate the strength and duration of under-shielding and over-shielding electric fields to the IMF magnitude and direction and solar wind dynamic pressure and the changes the impose on dayside, polar-cap convection. Utilize the new capability of the dual beam system in Arecibo to measure instantaneous measurement of the East/West component of the electric field and relate it to the different phases of the substorm.

Name	Institution	E-mail	Phone	Student
hien b Vo	Arecibo observatory	hvo@naic.edu	787-878-2612 x 359	

Service Observing Request

Remote Observing Request

- None
- All of the observing run.
- Part of the observing run.
- Queue Observing

- No
- Maybe
- Yes

Instrument Setup

430 G 430 CH receiver 430 CH radar

Atmospheric Observation Instruments:

Special Equipment or setup: none

RFI Considerations

Frequency Ranges Planned