

Technical Page

Proposal Type: Regular
 General Category: Terrestrial Aeronomy
 Sub-Category: Radar
 Observation Category: Ionospheric
 Total Time Requested: 48 Hours

Proposal Title: STORM AND SUBSTORM EFFECTS IN THE IONOSPHERE OVER ARECIBO
ABSTRACT:

The object of this proposal is to create a vehicle for the Arecibo Radar to respond to magnetic activity with the goal of understanding its effect on the tropical ionosphere. Recent Airglow observations have revealed remarkable structures surging poleward over Arecibo and it is crucial to capture more events with full radar and optical coverage. An on-demand basis is necessary to carry out the project.

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Service Observing Request

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

Remote Observing Request

- No
- Maybe
- Yes

Instrument Setup

430 MHz Gregorian

Atmospheric Observation Instruments:

Photometer Fabry-Perot Ionosonde

Description of Observer Equipment: Airglow Imager

Special Equipment or setup: Special setup: Software needs: Media needs:

RFI Considerations

Frequency Ranges Planned

see proposal