Technical Page

This proposal has been submitted before.

The previous proposal number is 3002.

Proposal Type: Regular
General Category: Terrestrial Aeronomy
Sub-Category: Radar
Observation Category: Middle-Lower Atmosphere
Total Time Requested: 192 Hours
Minimum Useful Time:

Proposal Title: A comprehensive study on the D-region dynamics and composition and a proposal for World Day time distribution at Arecibo

Abstract:

We propose to use the Arecibo incoherent scatter radar for comprehensive D-region observations to study: 1) the seasonal characteristics of planetary waves and tides; 2) seasonal characteristics of the gravity wave momentum flux and its relationship to the background winds; 3) ion composition. We request a total of 192 hours of incoherent scatter radar time in a 1-2 year period. Meanwhile, we also request that the generic World Days to always have D-region and E-region modes.

<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
<th>E-mail</th>
<th>Phone</th>
<th>Student</th>
</tr>
</thead>
<tbody>
<tr>
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<td>5135290743</td>
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</tbody>
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Remote Observing Request

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

Instrument Setup

430 G 430 CH receiver 430 Xmit

Atmospheric Observation Instruments:

Ionosonde

Special Equipment or setup: none

RFI Considerations
Frequency Ranges Planned