

## Technical Page

This proposal has been submitted before.

The previous proposal number is T1193.

Proposal Type: Regular  
 General Category: Terrestrial Aeronomy  
 Sub-Category: Radar  
 Observation Category: Thermosphere  
 Total Time Requested: 300 Hours  
 Minimum Useful Time:

**Proposal Title:** Coordinate Incoherent Scatter Radar and Optical Observations for the 2017 World Days Campaign.

*ABSTRACT:*

We are requesting the continuation of the World Day program along the year of 2017. This is a cooperative effort among the Incoherent Scatter Radar and Optical sites worldwide to investigate several phenomena of the upper neutral and ionized atmosphere. The Incoherent Scatter Radar and Optical facilities at Arecibo Observatory will be used to measure and derive various atmospheric and ionospheric parameters, such as, electron density; ion and electron temperatures; ion concentrations, plasma drift velocity, and; neutral wind velocities, amid others. The data from all of the World Day experiments will be processed in a common format and archived in the MADRIGAL data base, which has been accessible to investigators from the entire world.

Name	Institution	E-mail	Phone	Student
Nestor Aponte	Arecibo Observatory	naponte@naic.edu		no

### Remote Observing Request

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

### Instrument Setup

430 Xmit

### Atmospheric Observation Instruments:

Tilt-Photometer Spectrophotometer Fabry-Perot Ionosonde Lidar

**Special Equipment or setup:** none

**RFI Considerations**

**Frequency Ranges Planned**