

Technical Page

Proposal Type: Long Term
 General Category: Terrestrial Aeronomy
 Sub-Category: Optical
 Observation Category: Thermospheric
 Total Time Requested: 1100 Hours

Proposal Title: Coordinated Incoherent Scatter Radar and Optical Observations during the World Days during 1999-2000

ABSTRACT:

We request the continuation of the World Day program from 1999 through 2000. This is a cooperative effort among all the incoherent scatter radar and optical sites worldwide to investigate the structure, dynamics and composition of the upper atmosphere. The incoherent scatter radar and optical facilities at Arecibo will be used to measure and derive various atmospheric and ionospheric parameters, such as, electron concentration, ion and electron temperature, plasma drift velocity, and neutral wind velocity. The data from all World Day experiments are processed in a common format and archived in the NCAR data base, and are available to investigators from all over the world.

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Service Observing Request

Remote Observing Request

- | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> None
<input type="checkbox"/> All of the observing run.
<input type="checkbox"/> Part of the observing run.
<input type="checkbox"/> Queue Observing | <input checked="" type="checkbox"/> No
<input type="checkbox"/> Maybe
<input type="checkbox"/> Yes |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|

Instrument Setup

430 MHz Gregorian 430 MHz CH receiver

Atmospheric Observation Instruments:

Photometer Spectrometer Fabry-Perot Ionosonde Lidar

Description of Observer Equipment:

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

RFI Considerations

Frequency Ranges Planned

see proposal