

Technical Page

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

Proposal Title: COORDINATED MEASUREMENTS BETWEEN ARECIBO OBSERVATORY, THE UARS SATELLITE AND THE CRISTA/MAHRSI MISSION

ABSTRACT:

The objective is to measure the electron density profile in the D region of the ionosphere (60-90 km) coincident with the measurement of nitric oxide from both MAHRSI on the space shuttle and HALOE on the UARS satellite during July 1997. The comparison of these measurements with model calculations will allow a unique test of the theory of the ionization of mesospheric NO by solar Lyman α .

Name	Institution	E-mail	Phone	Student
David E Siskind	Naval Research Laboratory	siskind@ismap3.nrl.navy.mil	202-767-0928	N

Service Observing Request

Remote Observing Request

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

Instrument Setup

430MHz Gregorian 430 MHz CH receiver

Atmospheric Observation Instruments:

Ionosonde

Description of Observer Equipment: n/a

Special Equipment or setup: Special setup: n/a Software needs: POWRDD, Interference removal software Media needs: none other than standard exobyte

RFI Considerations

Frequency Ranges Planned

see proposal