

## Technical Page

Proposal Type: Urgent  
 General Category: Terrestrial Aeronomy  
 Observation Category: Ionosphere  
 Total Time Requested: 28.50 Hours  
 Minimum Useful Time: na

**Proposal Title:** Arecibo observations of E region at 600m resolution in support of the EUV Variability Experiment (EVE) mission.

**ABSTRACT:**

We request ISR observations of the ionosphere from 1hour or so before sunrise in the F-region to an hour or so after sunset in the F-region for one day (ASAP). The selected day needs to be coordinated with the EVE satellite team of Tom Woods, Frank et al. so that EVE is operating across its full range. The ISR mode we would be interested in is one that generates full ionospheric profiles E- through F- layer, topside. But with 1 km type resolution through the E-layer. I hope the day we pick is "quiet", although at Arecibo these really is no quiet day say. I think the main idea is that there are no major solar active events or super-storms. The request is urgent because an instrument on the spacecraft is failing and may cease operations at any time.

Name	Institution	E-mail	Phone	Student
Jan J Sojka	Utah State Univer- sity	Jan Sojka <janjsojka@usu.edu>	435-797-2962	no

### Remote Observing Request

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

### Instrument Setup

430 CH radar

### Atmospheric Observation Instruments:

**Special Equipment or setup:** 1) plasma line measurements provide accurate electron density measurements down to about 110km 2) your power profiles will go lower and they have a 600m resolution.

### RFI Considerations

## Frequency Ranges Planned