

Technical Page

Proposal Type: Regular
 General Category: Terrestrial Aeronomy
 Sub-Category: Radar
 Observation Category: Thermosphere
 Total Time Requested: 160 Hours

Proposal Title: Arecibo Studies of Gravity Wave Momentum Flux and Meteoric Flux in the MLT Region

ABSTRACT:

Under this proposal, the dual-beam capability of the Arecibo 430 MHz radar would be exploited to measure momentum fluxes, wind variances of the horizontal and vertical wind components, and temperature variances in the upper mesosphere and into the lower thermosphere. Arecibo is uniquely suited to measure winds and fluxes in this region. The observing technique is also optimal for high resolution meteor observations to study the effects of the meteor flux into the MLT.

Name	Institution	E-mail	Phone	Student
Dennis M. Reggin	Colorado Research Associates	reggin@cora.nwra.com	303-415-9701	no

Service Observing Request

- None
- All of the observing run.
- Part of the observing run.
- Queue Observing

Remote Observing Request

- No
- Maybe
- Yes

Instrument Setup

430 G 430 CH receiver 430 CH radar

Atmospheric Observation Instruments:

Special Equipment or setup: none

RFI Considerations

Frequency Ranges Planned