

## Technical Page

This proposal has been submitted before.

The previous proposal number is A2048.

Proposal Type: Large  
 General Category: Astronomy  
 Sub-Category: Spectroscopy  
 Observation Category: Extragalactic  
 Total Time Requested: 549.5h + 41.25h TOGS = 590.75h Hours  
 Minimum Useful Time: 1h

**Proposal Title:** Completing the Arecibo Galaxy Environment Survey (AGES)

*ABSTRACT:*

AGES is an HI survey specifically designed to investigate various galactic environments with higher sensitivity than ALFALFA, and also with better spatial and velocity resolution than previous HI surveys. Science goals include: the HI mass function in different environments, the identification of gaseous tidal features and isolated neutral gas clouds, the spatial distribution and properties of HI-selected galaxies, and comparisons with numerical models of galaxy formation. We request 925.25h to complete AGES, including 223.25h in the fall semester that we expect to be scheduled in fall 2013 but which had not been observed by September 3. Our spring request includes 244.75h for the Local Void, which can also be scheduled in the fall semester.

Name	Institution	E-mail	Phone	Student
Robert F Minchin	Arecibo Observatory	rminchin@naic.edu	787-878-2612 x283	no

### Remote Observing Request

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

### Instrument Setup

ALFA

**Atmospheric Observation Instruments:**

**Special Equipment or setup:** none

**RFI Considerations**

**Frequency Ranges Planned**

This proposal requires coordination with Punta Salinas radar within the band 1222-1381 MHz..

This proposal requires coordination with GPS L3 at 1381 MHz.