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ARECIBO OBSERVATORY
 NATIONAL ASTRONOMY AND
 IONOSPHERE CENTER
 OBSERVING TIME REQUEST
 COVER SHEET

We are indebted to our
 user community for their
 continued support of
 the Arecibo Observatory,
 Puerto Rico.

Section I - General Information

Submitted for Oct 1 2003.

This proposal has not been submitted before.

Proposal Type: Regular
 General Category: Astronomy
 Observation Category: Galactic
 Total Time Requested: 40 hours Hours

Proposal Title: A Pilot Study for the GALFA Continuum Transit Survey

ABSTRACT:

This proposal requests time to carry out a pilot study for the GALFA Continuum Transit Survey (GALFACTS). It is submitted on behalf of the GALFA Continuum science subconsortium. The scientific motivation for GALFACTS focuses heavily on exploiting polarimetric observations and measurements of Faraday Rotation to probe the magneto-ionic medium in the disk and halo of the Galaxy. This proposal will test the observing plan for GALFACTS. The observations and the data will be used to assess the success of the observing strategy, measure the effects of instrumental systematics on the scientific results and to develop processing and analysis algorithms. The region chosen for observations contains polarized signals from both a background point source and the distributed Faraday Screen, and will provide not only a rigorous test of these aspects of GALFACTS, but also a scientific investigation of filamentary structures in the Faraday screen.

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I will not need financial support.

This work is part of a MS thesis.

Service Observing Request

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

Remote Observing Request

- No
- Maybe
- Yes

Section II - Time Request

The following times are in LST.

Begin – End Interval–Interval	Days Needed at This Interval
6:38 – 7:38	40
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Time Constraints (Must Be Justified in the Proposal Text)

Prefer nighttime observations to protect against interference from the Sun. We also wish a time range that allows coordination for protection against Iridium.

Section III - Instruments Needed

L-wide

Atmospheric Observation Instruments:

Special Equipment or setup: none

Section IV - RFI Considerations

Frequency Ranges Planned

1120 - 1700

This proposal requires Iridium RFI protection at 1612 MHz between 10pm and 6am EST.

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

This proposal requires coordination with GPS L3 at 1381 MHz.

Section V - Observing List

Target List

10x1 deg region centred at RA=07h 08m, DEC=11D 30'