NATIONAL ASTRONOMY & IONOSPHERE CENTER
Publication Statistics
FY2001 – FY2005

September 2005

Prepared by the National Astronomy & Ionosphere Center
Cornell University
Ithaca, NY
NAIC Publication Statistics FY2001 – FY2005

Overview

The two major research programs at NAIC are the Radio Astronomy Program and the Space and Atmospheric Sciences (SAS) Program. The NAIC research facilities at the Arecibo Observatory to support these two programs are complementary and share much of the same Observatory infrastructure. The research culture of these two communities is distinct in several ways, one of them being that a main communication channel among astronomers are the numerous and frequent topical meetings; in the SAS community there are fewer meetings, but extremely large meetings of the whole community such as the annual meeting of the American Geophysical Union. These differences show up in the publication statistics for a national institution such as NAIC that supports both research endeavors.

In this report we assemble the NAIC publications resulting from the work of both communities of researchers at the Arecibo Observatory for the period FY2001 – FY2005. We provide a graphical overview of the NAIC publications by year, a tabulation of the number of publications by year, and an ordered list of all the publications each with its journal reference.

1. Publications in Refereed Journals

![Number of All NAIC Publications by Year](image-url)

- **2001**: 150 publications
- **2002**: 130 publications
- **2003**: 120 publications
- **2004**: 110 publications
- **2005**: 230 publications

**Legend**:
- Astronomy Program
- SAS Program
- Total NAIC
<table>
<thead>
<tr>
<th>Year</th>
<th>Refereed Journals</th>
<th>Conference Proceedings</th>
<th>Subtotal</th>
<th>TOTAL</th>
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<tr>
<td>FY2001</td>
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<td>81</td>
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<td>FY2003</td>
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<td>FY2005</td>
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</table>
NAIC/Arecibo Observatory Publications
October 2000 – September 2001
This list of publications includes papers that result from NAIC support as well as from AO data.

*Bolded names are individuals who are currently scientific staff members, or were at the time of publication submission.

**Radio Astronomy**

*Refereed Journals:*


**Conference Proceedings:**


**SOLAR SYSTEM STUDIES**

*Refereed Journals:*


Conference Proceedings:


**SPACE & ATMOSPHERIC SCIENCES**

*Refereed Journals:*


**Theses:**


**Conference Proceedings:**


**TECHNICAL**


The following papers do not introduce new Arecibo data, but do reference published Arecibo observing results.

**SPACE & ATMOSPHERIC SCIENCES**


NAIC/ARECIBO OBSERVATORY PUBLICATIONS
October 2001 – September 2002

This list of publications includes papers that result from NAIC support as well as from AO data.

*Bolded names are individuals who are currently scientific staff members, or were at the time of publication submission.

RADIO ASTRONOMY

Refereed Journals & Books:


**Thesis:**

Conference Proceedings:


Hessels, J.W.T., S.M. Ransom, I.H. Stairs, and V.M. Kaspi, A 20cm Search for Pulsars in Globular Clusters, 199th AAS Meeting, Washington, DC, January 6-19, 2002, #17.06, Dec 2001


Lewis, B.M., Observational Evidence for an Abrupt Decrease in the Mass-Loss Rate of FV Boo, 201st AAS Meeting, #25.06, Dec 2002

Lommen, A.N. and D.C. Backer, New Limits on the Gravitational Wave Background and Other Results from the Pulsar Timing Array, 199th AAS Meeting, Washington, DC, January 6-19, 2002, #24.03, Dec 2001


SOLAR SYSTEM STUDIES

Refereed Journals:


Conference Proceedings:


**SPACE & ATMOSPHERIC SCIENCES**

*Refereed Journals:*


**Conference Proceedings:**


The following papers do not introduce new Arecibo data, but do reference published Arecibo observing results.

**SPACE & ATMOSPHERIC SCIENCES**


NAIC/ARECIBO OBSERVATORY PUBLICATIONS
October 2002 - September 2003

This list of publications includes papers that result from NAIC support as well as from AO data.

*Bolded names are individuals who are currently scientific staff members, or were at the time of publication submission.

RADIO ASTRONOMY

Refereed Journals:


Thesis:


Conference Proceedings:


Chomiuk, L., S. Stanimirovic, C. Salter, R. Bhat, D. Urosevic, and D. Lorimer, *Arecibo Grasps a Possible Interaction Between SNR G42.8+0.6 and a Molecular Cloud*, American Astronomical Society Meeting 201, #143.02, Dec 2002


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**SOLAR SYSTEM STUDIES**

*Refereed Journals:*


**Conference Proceedings:**


**SPACE & ATMOSPHERIC SCIENCES**

*Refereed Journals:*


**Theses:**


**Conference Proceedings:**


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**RADIO ASTRONOMY**


**SPACE & ATMOSPHERIC SCIENCES**


NAIC/ARECIBO OBSERVATORY PUBLICATIONS
October 1, 2003 – September 30, 2004

This list of publications includes papers that result from NAIC support as well as from AO data.

*Bolded names are individuals who are currently scientific staff members, or were at the time of publication submission.

**RADIO ASTRONOMY**

*Refereed Journals:*


Thesis:
Van Duzer, A.M., Blind Search for Low Mass Hales in the Local Universe, Senior honors thesis, B.A. Physics, Univ. of South Dakota, 2004

Conference Proceedings & Abstracts:


Camilo, F., Searches for Young Pulsars, in Young Neutron Stars and Their Environments, IAU Symp. 218, held as part of the IAU General Assembly, 14-17 July, 2003 in Sydney, Australia, Eds. F. Camilo and B.M. Gaensler, (ASP: San Francisco), p. 97, 2004


Lebron, M., *The photodissociated region around the HII region Sharpless 252*, American Astronomical Society Meeting 204, #99.01, May 2004


**SOLAR SYSTEM STUDIES**

*Refereed Journals:*


Conference Proceedings:


**SPACE & ATMOSPHERIC SCIENCES**

*Refereed Journals:*


**Theses:**


**Conference Proceedings:**


TECHNICAL


*The following papers do not introduce new Arecibo data, but do reference published Arecibo observing results.*

RADIO ASTRONOMY


SPACE & ATMOSPHERIC SCIENCES


NAIC/ARECIBO OBSERVATORY PUBLICATIONS
October 1, 2004 – September 30, 2005

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RADIO ASTRONOMY

Refereed Journals:


**Theses:**


**Conference Proceedings & Abstracts:**


**SOLAR SYSTEM STUDIES**

*Refereed Journals:*


66


Conference Proceedings:


Black, G. and D. Campbell, Rhea’s Surface: Ice Properties Measured by Radar, American Astronomical Society, DPS meeting #36, #24.04, Nov 2004


**SPACE & ATMOSPHERIC SCIENCES**

*Refereed Journals:*


70


Petitdidier, M., and P. Laroche, Lightning Observations with the Strato-Tropospheric UHF and VHF Radars at Arecibo, Puerto Rico, Atmos. Res., 76(1-4) [Special Issue], p. 481-492, July 2005


**Conference Proceedings & Abstracts:**


Bishop, R.L., P.R. Straus, M. Nicolls, and M. Kelley, *Comparison and Validation of Ionospheric GPS Occultation Measurements With Arecibo ISR Data*, American Geophysical Union, Fall Meeting 2004, abstract #SF53A-0721, Dec 2004


72


Sulzer, M.P. and S.A. González, Comparisons of Measurements at Arecibo of the Gyro Line of Incoherent Scatter with the Theory, American Geophysical Union, Fall Meeting 2004, abstract #SA41A-1037, Dec 2004


Zhang, S., J.M. Holt, T. van Eyken, M. McCready, C. Amory-Mazaudier, S. Fukao, and M. Sulzer, Ionospheric Climatology and Model from Long-Term Databases of Worldwide Incoherent Scatter Radars, American Geophysical Union, Spring Meeting 2005, abstract #SA52A-03, May 2005


The following papers do not introduce new Arecibo data, but do reference published Arecibo observing results.

**SPACE & ATMOSPHERIC SCIENCES**


