



The NOAO Publications Tracking Program

Developing Policies & Procedures for Usage, Acknowledgment, & Citation of Data

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A high-quality telescope bibliography is an essential tool for reporting to funding agencies, developing programs, and determining scientific contributions and impact.

The proper and ethical usage, acknowledgment, and citation of our data and data products are vital to the scientific integrity of our work and important for the accurate recognition of contributors to that work.

We are evaluating and updating our policies regarding usage, acknowledgment, and citation of our data and data products to

- provide guidance to users
- streamline publication tracking procedures
- ensure the quality of our telescope bibliographies
- develop and adhere to standards of professional ethics relating to data usage

Challenges

Publications Tracking Program

Complex program, with publications citing data from multiple

- sites (KPNO and CTIO)
- telescopes and instruments
- survey programs
- data products and services



Literature Search and Analysis Process

- Multiple keywords necessary because of program scope and variant designations
- High number of false positives and need for analysis
- Time-consuming documentation of many parameters relating to use of our data
- Incomplete documentation in some publications

Data Rights

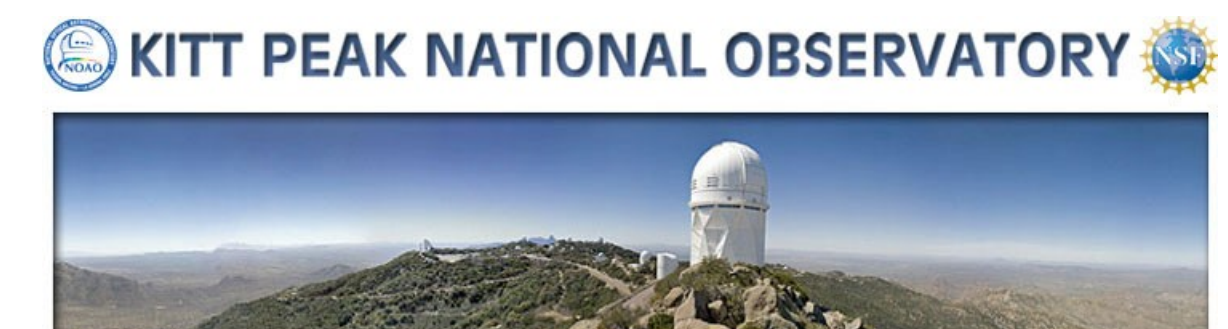
- Use of NOAO archival datasets becoming even more widespread and important for scientific discovery and follow-up, making proper acknowledgment complex.
- Policies on standards of professional ethics and conduct with respect to data usage are not always known and adhered to.

Expanded Data Products and Services

- Revised policies are needed to reflect our expansion into open-access digital science platforms and services (e.g., Data Lab, ANTARES).

Goals

- Develop explicit and readily accessible policies on specifying and acknowledging use and reuse of our telescope data, data products, and archival datasets.
- Improve efficiency, completeness, and accuracy of publications tracking procedures and telescope bibliographies.
- Link our publications data with our proposal data.
- Ensure that NOAO data policies are consistent with (or ahead of) other observatories and data archives/centers and reflect proper ethical standards for data use and citation.



Projects

Facilitate access to guidelines and policies

The NOAO Library acknowledgments webpage

- serves as centralized repository for policies and procedures;
- contains acknowledgments statements specific to particular telescopes, programs, and data products and services
- provides explicit guidance to authors on our expectations relating to use of NOAO data and their responsibilities as users of this data
- links all appropriate web pages (e.g., Science Data Archive at NOAO; proposals; publications listings)



[How to Acknowledge NOAO in Publications](#)

Request use of NOAO Prop. ID in acknowledgments section

This unique identifier

- offers a mechanism to streamline and enhance literature searching and analysis process
- provides details on investigators, dates, telescopes, and instruments
- negates the necessity of individually capturing specifics of data usage from a publication
- supplies more information on the data used than may be explicitly mentioned in a publication
- ties data to specific investigators
- will be attached to any re-use of data from a publication

Link proposals and data to publications

- NOAO Prop. ID is link between proposals database, Science Data Archive at NOAO, and publications database.
- Prop. ID in telescope bibliography makes investigator contribution explicit.
- Individuals can click on NOAO Prop. ID link in citation to view proposal.

Assess and update statements

- Review policies of other observatories and data archives/centers regularly.
- Revise and add statements for new data products and services as needed.
- Propose modifications and updates to suggestions for responsible use of archival data, possibly including acknowledgment of original PI, for review by relevant managers.

Proposal Information for 2014A-0073

PI: Mukremin Kilic, University of Oklahoma, kilic@ou.edu
Address: Physics Department, 440 W Brooks Street, Norman, OK 73019, USA

CoI: Sara Barber, University of Oklahoma

CoI: Buell Januzzi, NOAO

CoI: Arjun Dey, NOAO

CoI: Peter Stetson, National Research Council of Canada

Title: A Search for Habitable Planets Around White Dwarfs

Abstract: A large fraction of white dwarfs (WDs) may host planets in their habitable zones. Here we propose to take advantage of the unique capability of DECam on the CTIO 4m to perform a pre-LST transit survey that is capable of detecting the first planet in the habitable zone of a WD. We propose to obtain DECam time-series photometry of the CFHT Legacy Survey (CFHTLS) Wide2 field to search for planetary, substellar, and stellar companions to more than 500 WDs. Thanks to the 3 square degree field of view of DECam, for the first time in history, a large number of WDs can be observed at the same time, which is essential for discovering transits. We will use the original data taken 8 years ago for the CFHTLS and our stacked DECam images to identify the WDs based on their colors and proper motions. Given the observing window from the ground, if every WD has an Earth-like planet in its habitable zone, we expect to find up to 3 planets in this initial survey. In addition to planets, we will also constrain the frequency of eclipsing substellar and stellar companions to WDs, which has important implications for the LST. Our stacked dataset will also provide a significantly improved WD luminosity function for the Galactic disk and halo.

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1 rows selected	Access	Proposal ID	Survey ID	Release date	Observing date	UT	PI	RA	Dec	Telescope	Instrument	Filter	Exposure	Observation type	Observing mode	Processing	Product
<input checked="" type="checkbox"/>	Retrieve	2014A-0073	?	2015-08-03	2014-02-02	2014-02-03 05:03:21.505	Kilic	135.758700	-4.583333	ct4m	decam	g DECam SDSS c0001 4720.0 1520.0	30.0	object	imaging	RAW	image

Belardi, C., ... Dey, A., et al. 2016, *MNRAS*, 462, 2506, The DECam minute cadence survey - I
[2016MNRAS.462.2506B](#)

Blanco +DECam; NOAO Prop. ID 2014A-0073, PI: M. Kilic; Science Data Archive at NOAO



NOAO proposal web page (left), Science Data Archive at NOAO web page (right top), and citation from online telescope bibliography (right bottom). The NOAO Prop. ID was listed in the acknowledgments section of this publication. The citation is linked to the ADS entry and the NOAO Prop. ID proposal web page.