

DC Area Fedora Users Meeting
Smithsonian Museum of the American Indian
January 18, 2010



The Goddard Library Repository:

Creating an Author Collection

Overview

Project and Collection Background

- ▣ Mitzi Cole


Creating Fedora Objects and Relationships

- ▣ Bria Parker

From Metadata to Interface

- ▣ Jeremy Gottwig

Goddard Library Repository

**National Aeronautics and Space Administration**
Goddard Space Flight Center

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Welcome


Author Spotlight:
Neil Gehrels
Explore the published works of this and other Goddard Authors



The Science of Goddard

...

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Goddard Authors Collection

**National Aeronautics and Space Administration**
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Goddard Authors

The Goddard Authors Collection is a repository of material published by authors who were affiliated with the NASA Goddard Space Flight Center or the Wallops Flight Facility at the time of the publication. The collection includes records for material published since 2008. The metadata for these records are harvested from Web of Science, the IEEE Electronic Library, ScienceDirect, CSA Georef, and the CSA Technology Research Database. The Library's Get It @ Goddard service is used to provide access to the full-text through links to electronic copies or the interlibrary loan service.

Material in this collection must be approved for public use and be published or presented at a conference sponsored by a government, society, academic, or commercial publisher. The collection includes journal articles, conference proceedings, books, book chapters, technical reports, newsletters, newspaper articles, presentations, and posters.

Quick Stats

- Publication Records: 4271
- Author Records: 1575
- Colloquia Records: 2418
- Case Studies Records: 18



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Basic Requirements

- Maintain information on each Goddard author including name variants and organization code
- Display publication information with a link to the full-text, published material and/or attached full-text files
- Search by author, title, subject, organization code
- Utility for loading and de-duping metadata records
- Utility for matching authors
- Detailed reporting and metrics



Building the Collection

Author

Information

- Name authority and disambiguation
- Work/code information
- Unique identifier

Publication

Information

- Bibliographic information
- Author affiliation
- Publication types

Full-Text

Access

- Open URL resolution
- DOI
- Full-text file

Author Relationships

Goals

- Create relationships between the author and publication objects
- Create relationships between co-authors

However, missing affiliation metadata, name variants and typos make this difficult

Author Holding Information

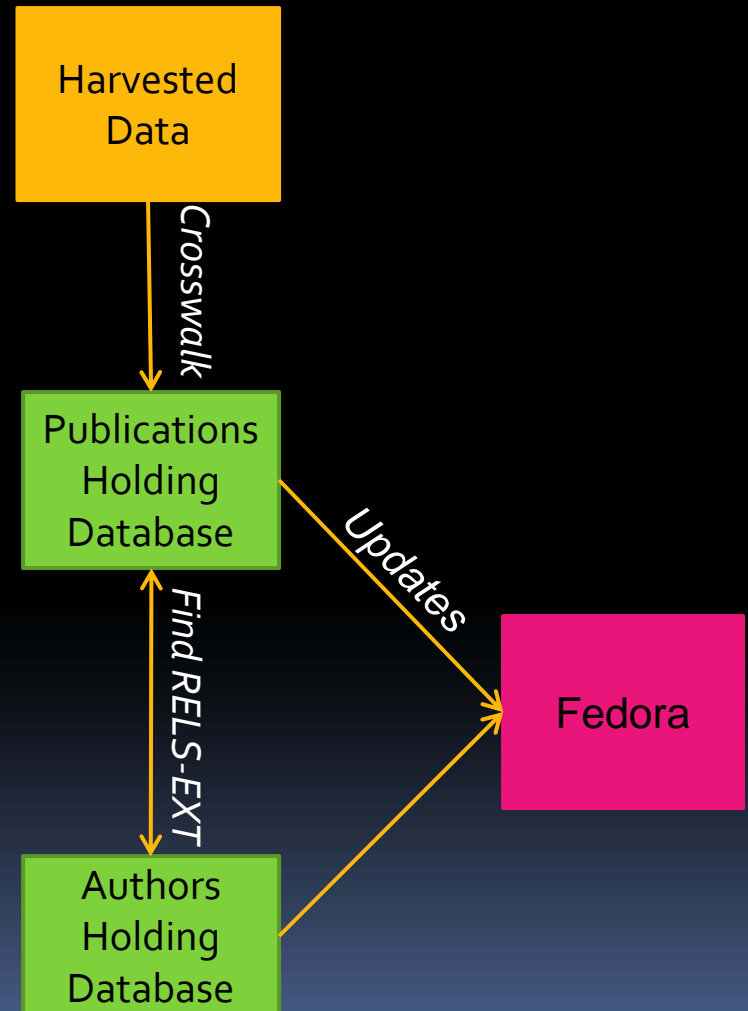
Detail		
Name:	Gehrels, Cornelis A DR	
Phone:	301.286.6546	
Mobile:		
Fax:	301.286.0677	
Common Name:	Cornelis Gehrels	
Employer:	NASA	
UUPIC:	519453701	
Display Name:	Gehrels, Cornelis A. {Neil}{GS...	
Title:	SUPERVISORY ASTROPHYSICIST	
Email:	cornelis.a.gehrels@nasa.gov 	
Address:	NASA Goddard Space Flight Center 8800 Greenbe...	
City:	Greenbelt	Center: GSFC
State:	MD	Building: 34
Zip Code:	20771	Room: S254A
NASA Mail Stop:	661.0	Org Code: 6610
Agency User ID:	cgehrels	US Citizen: Yes
IEMP User ID:	na8l6a5p	Level of Conf:
x500 ID:	GS008790	Status: Enabled
Legacy ID:		

Search/Modify Item in AUTHOR Database	
ID <input type="text" value="8"/>	
AUTHOR NAME	
First Name: <input type="text" value="Neil"/>	Middle Name: <input type="text" value="A"/> Last Name: <input type="text" value="Gehrels"/>
Prefix: <input type="text"/>	Suffix: <input type="text"/>
AUTHOR VARIANT	
First Name: <input type="text" value="Cornelis"/>	Middle Name: <input type="text" value="A"/> Last Name: <input type="text" value="Gehrels"/>
prefix: <input type="text"/>	suffix: <input type="text"/>
First Name: <input type="text" value="Neil"/>	Middle Name: <input type="text" value="A"/> Last Name: <input type="text" value="Gehrels"/>
prefix: <input type="text"/>	suffix: <input type="text"/>
First Name: <input type="text" value="Cornelis"/>	Middle Name: <input type="text" value="A"/> Last Name: <input type="text" value="Gehrels"/>
prefix: <input type="text"/>	suffix: <input type="text"/>
First Name: <input type="text" value="Neil"/>	Middle Name: <input type="text"/> Last Name: <input type="text" value="Gehrels"/>
prefix: <input type="text"/>	suffix: <input type="text"/>
<< remove author name variant add author name variant >>	
AUTHOR AFFILIATION	
Organization:	<input type="text" value="NASA"/>
Branch:	<input type="text" value="Astroparticle Physics Laboratory"/>
Code:	<input type="text" value="661.0"/>
Category:	<input type="text" value="NASA Employee"/>
Position:	<input type="text" value="Supervisory Astrophysicist"/>
Email:	<input type="text" value="cornelis.a.gehrels@nasa.gov"/>
Date Valid:	From: <input type="text" value="2009"/> To: <input type="text"/>
Note:	<input type="text"/>
<< remove author affiliation add author affiliation >>	
URL <input type="text"/>	
<< remove one field add another field >>	
UUPIC <input type="text" value="519453701"/>	
AUID <input type="text" value="cgehrels"/>	
Other ID <input type="text"/>	
<< remove one field add another field >>	
STATUS	
<input type="text" value="active"/>	
<input type="button" value="Modify Item"/>	

Search/Modify Item in AUTHOR Database
modify AUTHOR item OK!
Click here to modify the Fedora Object of the item you just changed.
Add New AUTHOR Item
Search/Modify AUTHOR Item
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Publication Metadata

- Metadata about each publication was crosswalked into a holding database
- Program to run publications against a separate author database to build RELS-EXT

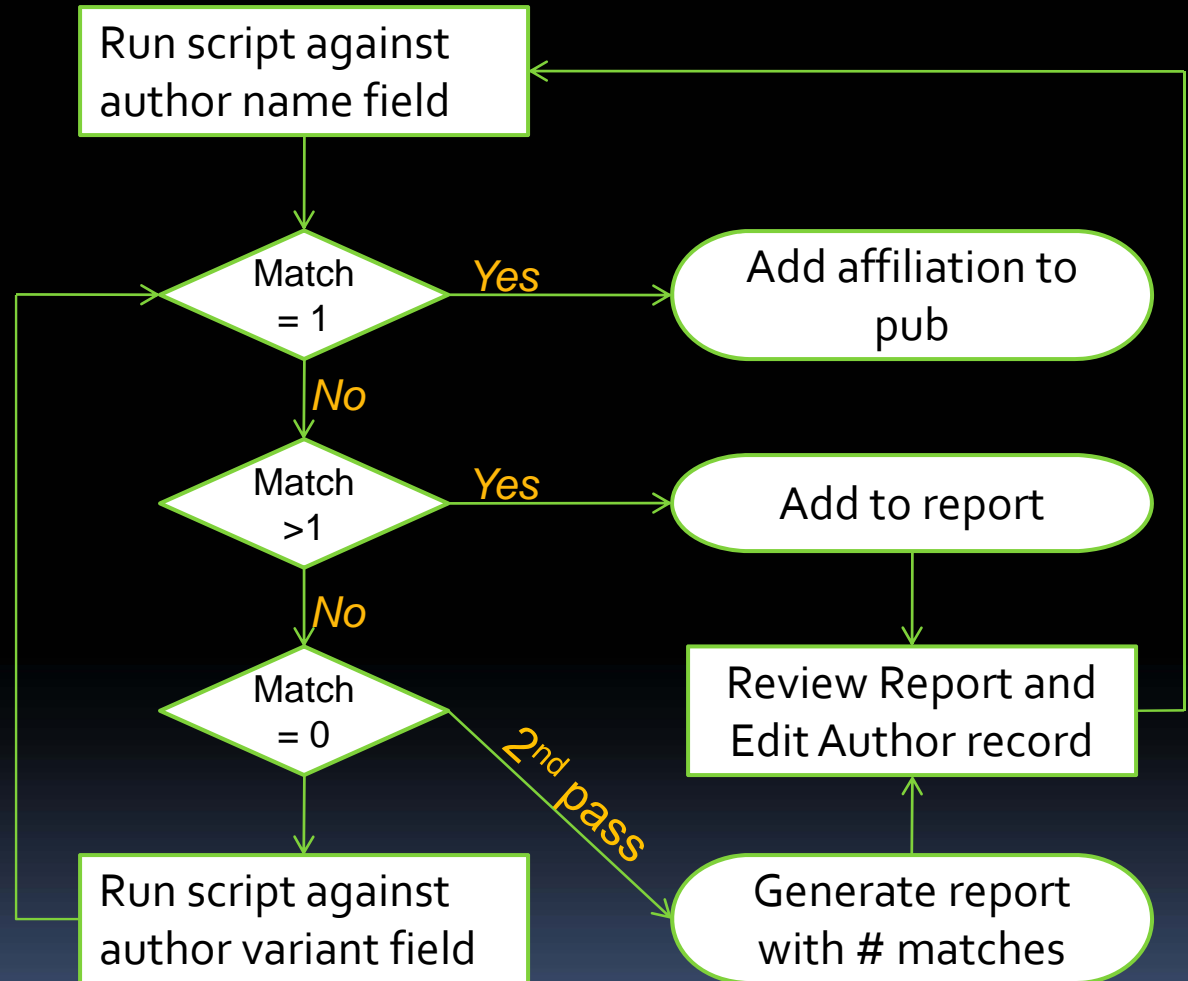




Matching Authors to Publications

Script Logic

- Last name must match exactly.
- First name and middle name match from the beginning of the text string





Publication Holding Information

AUTHOR NAME

First Name: James Middle Name: B Last Name: Abshire

Prefix: Suffix:

Affiliation: NASA, Goddard Space Flight Ctr, Greenbelt, MD 20771

Registered: yes

UUPIC: 153764054

First Name: Haris Middle Name: Last Name: Riris

Prefix: Suffix:

Affiliation: NASA, Goddard Space Flight Ctr, Greenbelt, MD 20771

Registered: yes

UUPIC: 760262735

First Name: Graham Middle Name: R Last Name: Allan

Prefix: Suffix:

Affiliation: Sigma Space Inc, Lanham, MD 20706 USA.

Registered: yes

UUPIC: 312890751

First Name: Clark Middle Name: J Last Name: Weaver

Prefix: Suffix:

Affiliation: Univ Maryland Baltimore Cty, Goddard Earth Sci & Tec

Registered: yes

UUPIC: 471274015

First Name: Jianping Middle Name: Last Name: Mao

Prefix: Suffix:

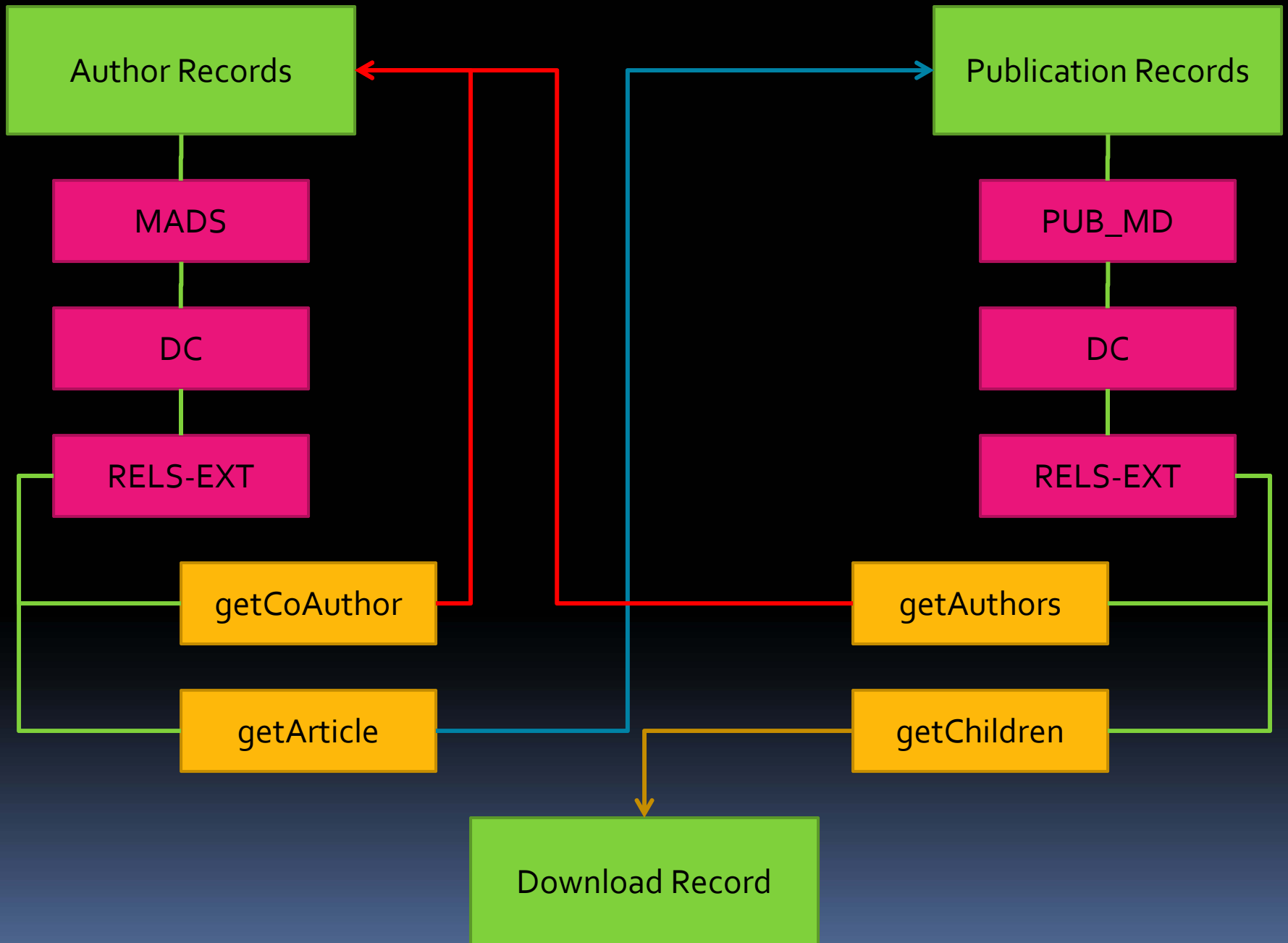
Affiliation: Univ Maryland Baltimore Cty, Goddard Earth Sci & Tec

Registered: yes

UUPIC: 077842445

First Name: Xiaoli Middle Name: Last Name: Sun

Prefix: Suffix:





Metadata to Interface

Three connected considerations

- Author records
- Publication records
- Disseminations

Document Access

- OpenURL
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JOURNAL ARTICLES

Full Title

Pulsed airborne lidar measurements of atmospheric CO2 column absorption

Contributors

Biraud S, Kawa S, Hasselbrack W, Sun X, Mao J, Allan G, Weaver C, Riris H, Abshire J

Publication Title

[TELLUS SERIES B-CHEMICAL AND PHYSICAL METEOROLOGY](#)

Publication Title (abbreviated)

TELLUS B-CHEM PHYS METEOROL

Publication Date

2010 Nov

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62

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First Page

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- [Abshire, Dr. James Brice](#)
- [Allan, Graham Robert](#)
- [Hasselbrack, William E.](#)
- [Kawa, Dr. Stephan Randolph](#)
- [Mao, Jianping](#)
- [Riris, Haris](#)
- [Sun, Xiaoli](#)
- [Weaver, Clark J.](#)



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Allan, Graham Robert



Biraud S, Kawa S, Hasselbrack W, Sun X, Mao J, Allan G, Weaver C, Riris H, Abshire J. **Pulsed Airborne Lidar Measurements of Atmospheric Co2 Column Absorption**. Tellus Ser. B-chem. Phys. Meteorol. 2010;62 (5 Sp. Iss. SI):770-783.

[Publication Details](#) | [Check Journal Availability](#)

Hasselbrack B, Riris H, Abshire J, Mao J, Weaver C, Allan G. **Airborne Measurements of Co2 Column Absorption Using a Pulsed Wavelength-scanned Laser Sounder Instrument**. In: Lasers and Electro-optics, 2009 and 2009 Conference On Quantum Electronics and Laser Science Conference. Cleo/qels 2009. Conference On. Conference On Lasers and Electro-optics/quantum Electronics and Laser Science Conference (cleo/qels 2009); Jun 02-04, 2009; Baltimore, Md. 2009. p. 255-256.

[Publication Details](#) | [Check Proceeding Availability](#)

Allan G. **Evidence for Optically Induced Heating of the Glas/icesat Doubler Crystal**. In: Lasers and Electro-optics, 2008 and 2008 Conference On Quantum Electronics and Laser Science. Cleo/qels 2008. Conference On. Conference On Lasers and Electro-optics/quantum Electronics and Laser Science Conference; May 04-09, 2008; San Jose, Ca. 2008. p. 216-217.

[Publication Details](#) | [Check Proceeding Availability](#)

Krainak M, Burris J, Abshire J, Sun X, Allan G, Riris H, Wilson E. **Laser Sounder for Active Remote Sensing Measurements of Co2 Concentrations**. In: 2008 Ieee Aerospace Conference, Vols 1-9. 2008 Ieee Aerospace Conference; Mar 01-08, 2008; Big Sky, Mt. 2008. p. 1534-1540.

[Publication Details](#) | [Check Proceeding Availability](#)

Allan G, Riris H, Krainak M, Stephen M. **Single-frequency, Frequency-doubled, Erbium-doped, Fiber-amplified Transmitter for Oxygen A-band Spectroscopy**. In: Lasers and Electro-optics, 2007. Cleo 2007. Conference On. Conference On Lasers and Electro-optics/quantum Electronics and Laser Science Conference; May 06-11, 2007; Baltimore, Md. 2007. p. 1537-1538.

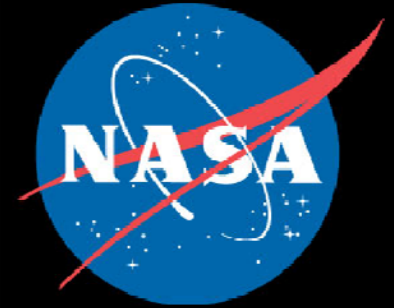
[Publication Details](#) | [Check Proceeding Availability](#)

About Author

- Laser Remote Sensing Laboratory
- [Code 694.0](#)
- Contractor
- Engineer

Related Authors

- [Abshire, Dr. James Brice](#)
- [Burris, John F., Jr.](#)
- [Chen, Jeffrey R.](#)
- [Hasselbrack, William E.](#)
- [Kawa, Dr. Stephan Randolph](#)
- [Krainak, Dr. Michael A.](#)
- [Mao, Jianping](#)
- [Riris, Haris](#)
- [Steel, Emily Wilson](#)
- [Stephen, Mark A.](#)
- [Sun, Xiaoli](#)
- [Weaver, Clark J.](#)



Questions?



NASA Goddard Space Flight Center Library

Mitzi M. Cole, Electronic Library Systems Team Lead, ZAI, Inc.

Jeremy Gottwig, Web Developer, ZAI, Inc.

Bria Parker, Metadata/Cataloging Librarian, LAC Group