

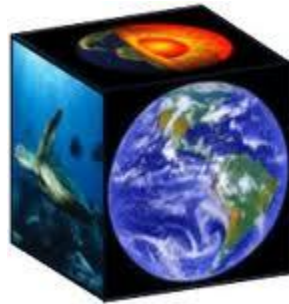
WILEY

Transforming Research Communication: Knowledge Management and Data Publishing

Fiona Murphy

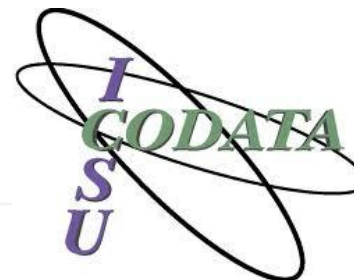
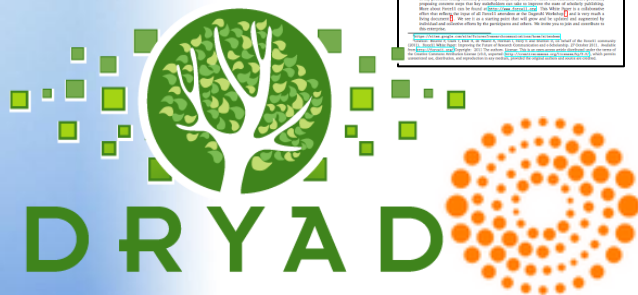
ASLI, January 2013, Austin

It's noisy out there!



NSF-Supported Research Data Alliance/U.S. Collaborates with International Partners to Accelerate Data Sharing

Renowned computer scientist Frances Berman to lead U.S. engagement



Research Projects



Opportunities for Data Exchange

“Co-operation between libraries, publishers and data centres is important when developing common structures and services. Examples include data publication, quality assurance, peer review, citation, linking and persistent identifiers.”



OpenAIRE

Open Access Infrastructure for Research in Europe

Goal of OpenAIRE is to collect, manage and make accessible FP7 and European Research Council funded articles. In addition to those publications OpenAIREplus will also harvest, index and link metadata of scientific datasets.



The vision of SIM4RDM is to enable researchers to effectively use emerging data infrastructures by ensuring that they have the knowledge, skills and support infrastructures necessary to adopt good research data management practices.

Geoscience Data Journal, Wiley Blackwell and the Royal Meteorological Society

- **supported by NERC** – in particular the **British Atmospheric Data Centre**
- Partnership formed between **Royal Meteorological Society** and academic publishers **Wiley Blackwell** to develop a mechanism for the formal publication of data in the Open Access *Geoscience Data Journal*
- **GDJ publishes** short data papers cross-linked to, and citing, datasets that have been deposited in approved data centres and awarded DOIs (or other permanent identifier).
- A **data article** describes a dataset, giving details of its collection, processing, software, file formats etc, without the requirement of novel analyses or ground breaking conclusions. It **allows the reader to understand the when, how and why data was collected and what the data-product is.**



Why publish data?

- Provide academic credit to scientists who create and manage data
 - without diverting effort from their main work on ensuring data quality.
- Ensures that the dataset is uploaded to a trusted repository where it will be archived and curated properly.
- Peer-review process also reassures the funder that the published dataset is of good quality and that the experiment was carried out appropriately.
- Allows researchers outside the immediate field to discover data and learn access conditions.
- Shows transparency in the scientific process, improving public accountability.

JOURNAL TOOLS

-  Get New Content Alerts
-  Get RSS feed
-  Save to My Profile
-  Recommend to Your Librarian

JOURNAL MENU

Journal Home

FIND ISSUES

Current Issue
All Issues
Virtual Issues

FIND ARTICLES

Early View
Editors' Choice

FOR CONTRIBUTORS

Author Guidelines
Submit an Article

ABOUT THIS JOURNAL

Editorial Board
News
Overview
Permissions
Advertise
Contact

SPECIAL FEATURES

Virtual Issue - Evolutionary
Applications to Climate
Change

For Reviewers

Cover Gallery

Wiley Job Network

Institutional and Funder
Payments

Wiley Open Access

Open Access License and
Copyright

Article Publication Charges

Virtual Special Issue -
Geoengineering

Virtual Issue - Editor's Choice
papers

L F Richardson Award Prize
Winners

Geoscience Data Journal
Open Access

Editor in Chief
Dr Rob Allan,
Met Office, UK

➤ An earth science
open access
data journal

Data Paper

On the South Atlantic Convergence Zone affecting southern Amazonia in austral summer

Fabien C. Lamaze^{1,*}, Dany Garant², Louis Bernatchez¹

Issue

Article first published online: 23 OCT 2012

DOI: 10.1002/asl.401

© 2012 The Authors
This is an open access article under the terms of the Creative Commons Attribution Non-Commercial License, which permits use, distribution and reproduction in any medium, provided the original work is properly cited and is not used for commercial purposes.

This is an Open Access article under the terms of the **Creative Commons Attribution Non Commercial License** which permits use, distribution and reproduction in any medium, provided the original work is properly cited and is not used for commercial purposes.

Total views since publication: 25 [view chart](#)

Additional Information ([Show All](#))

[How to Cite](#) | [Author Information](#) | [Publication History](#) | [Funding Information](#)

Abstract

Article

References

Supporting Information

Cited By

 [Get PDF \(504K\)](#)

Keywords:

brook charr; gene expression; hybridization; introgression; quantitative PCR; stocking

Dataset

[Jump to...](#)

GBS (Global Broadcast Service), [doi:10.1029/2007RS003793](https://doi.org/10.1029/2007RS003793)

Abstract

[Jump to...](#)

Time series analysis of the average rainfall over a target area in southern Amazon Basin showed a spectral peak at 11 day period. An objective method for defining the South Atlantic Convergence Zone (SACZ) is used to identify 28 episodes affecting southern Amazon Basin during the 10 summers in the period 1999–2010. The 28-episode composite precipitation anomalies show significant positive values over the target area. The convergence of moisture over the target area in the SACZ composites is about 35% stronger than the climatological value.
Copyright © 2012 Royal Meteorological Society

1. Introduction

[Jump to...](#)

One of the regional scale meteorological systems that affect the weather over a major part of the South American tropics is the South Atlantic Convergence Zone (SACZ). This system somewhat plays the same role for the South American monsoon (Vera *et al.*, 2006; Carvalho *et al.*, 2010) as does the monsoon trough for the South Asian summer monsoon (Keshavamurty and Awade, 1970). The cloud band associated with SACZ extends from the Amazon Basin (Amazonia) to the South Atlantic subtropics, over a stretch of 4000 km or more (Kodama, 1992; Satyamurty *et al.*, 1998) and affects many regions of Brazil with intense rainfall. Some SACZ events are especially intense over interior South American continent (Carvalho *et al.*, 2002, 2004; Muza and Carvalho, 2006), strongly affecting Amazonia.



SEARCH

In this issue [▼](#)

[Advanced >](#) [Saved Searches >](#)

ARTICLE TOOLS

-  [Get PDF \(504K\)](#)
-  [Save to My Profile](#)
-  [E-mail Link to this Article](#)
-  [Export Citation for this Article](#)
-  [Get Citation Alerts](#)
-  [Request Permissions](#)
-  [Share](#) |     

Guidelines & Workflows

For Authors:

- Are there guidelines on how to structure a Data Paper?
- How can I submit a Data Paper to ***Geoscience Data Journal***?
- What is a **Digital Object Identifier (DOI)** and why should datasets have them?
- What alternative permanent identifiers are allowable?

For Data Centers:

- How do data centers fit in to the ***GDJ*** ecosystem?
- What would my data center have to do to be approved by ***GDJ***?
- Is the repository approval a lengthy process?
- Is there any support or guidance available from the journal? Whom do I contact to get my repository approved?.
- Once approved what then?
- What are the benefits of encouraging researchers to submit to GDJ?

Peer REview for Publication & Accreditation of Research Data in the Earth sciences (PREPARDE)

- Best Practices in Data Citation
- Building workflows from all viewpoints (researcher, publisher, data center manager)
 - Who controls which process?
- What makes a repository trustworthy?
- Peer review of data is implicitly peer review of repository
- Engagement
 - contribution to human knowledge
 - reliability

Project team, roles and responsibilities

- **University of Leicester (UoL):** project lead, academic liaison and administration
- **British Atmospheric Data Centre (BADC):** project management
- **Wiley-Blackwell:** provide publishing platform
- **California Digital Library (CDL):** investigate a lightweight data paper convention
- **US National Centre for Atmospheric Research (NCAR):** use cases of data review methods
- **F1000:** contribute broader perspective from the biomedical sciences
- **Digital Curation Centre:** assess peer review models & overlap with data repository appraisal and ingest processes

Further Information and Next Steps

Website: <http://proj.badc.rl.ac.uk/preparde/>

To date: Talks/Workshops/Town Halls at Goldschmidt, SpotOn London, CODATA, ACRE, AGU Fall Meeting

Forthcoming: IDCC workshop #IDCC13 - 17 Jan 2013, Amsterdam
Workshop at British Library March 2013

Planned: Talk/Splinter Meeting at EGU, April 2013

Other? Suggestions please!

Opportunities: Join the mailing list, review draft guidelines, documents, test workflows, encourage researchers to submit data papers.....



**"Publishing research without
data is advertising, not science"**

*Cameron Neylon, Graham Steel, &
Others*

Thank you!

fmurphy@wiley.com

@DrFionaLM

#PREPARDE

<http://www.stm-assoc.org/research-data-group/#>