



Data sharing: where do we go from here?

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Head of Community Engagement, Dryad



An **open data publishing platform**
& **community** committed to the
open availability and routine
re-use of all research data

- **Serving all research domains**
- **Leader in research data**
- **Interconnected**
- **Fully curated**
- **Non-profit and community-led**

49,600+ data publications
193,300+ researchers
69,100+ international institutions
1,270+ academic journals



DRYAD

Not-for-profit and online since
2008. Learn more: datadryad.org

An empirical analysis of journal policy effectiveness for computational reproducibility

Victoria Stodden  , Jennifer Seiler, and Zhaokun Ma [Authors Info & Affiliations](#)

Edited by David B. Allison, Indiana University Bloomington, Bloomington, IN, and accepted by Editorial Board Member Susan T. Fiske January 9, 2018 (received for review July 11, 2017)

March 12, 2018 | 115 (11) 2584-2589 | <https://doi.org/10.1073/pnas.1708290115>

 46,422 | 124



Immediate, open deposit of data underlying scholarly research

... and plans for open deposit
of data not associated with a
publication

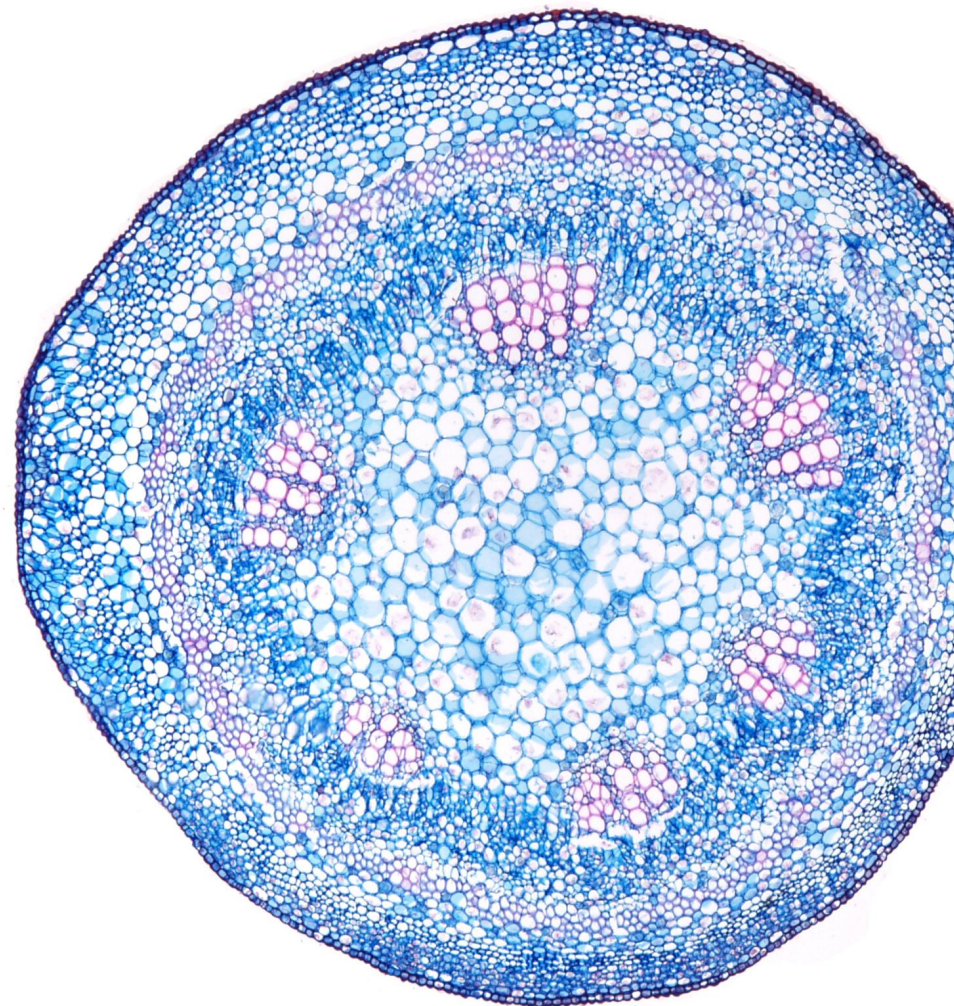
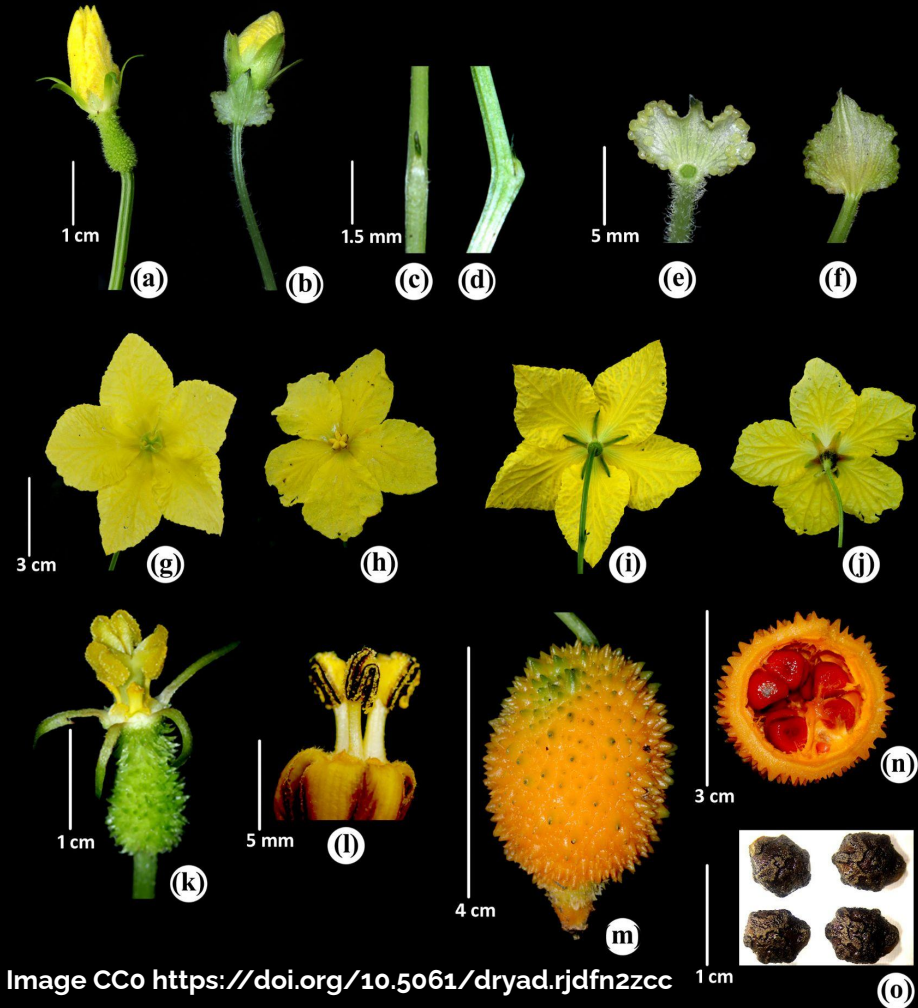


Image CCo <https://doi.org/10.5061/dryad.qv14t>

In repositories that align with the NSTC's "Desirable Characteristics of Data Repositories for Federally Funded Research"



Described with robust metadata and persistent identifiers

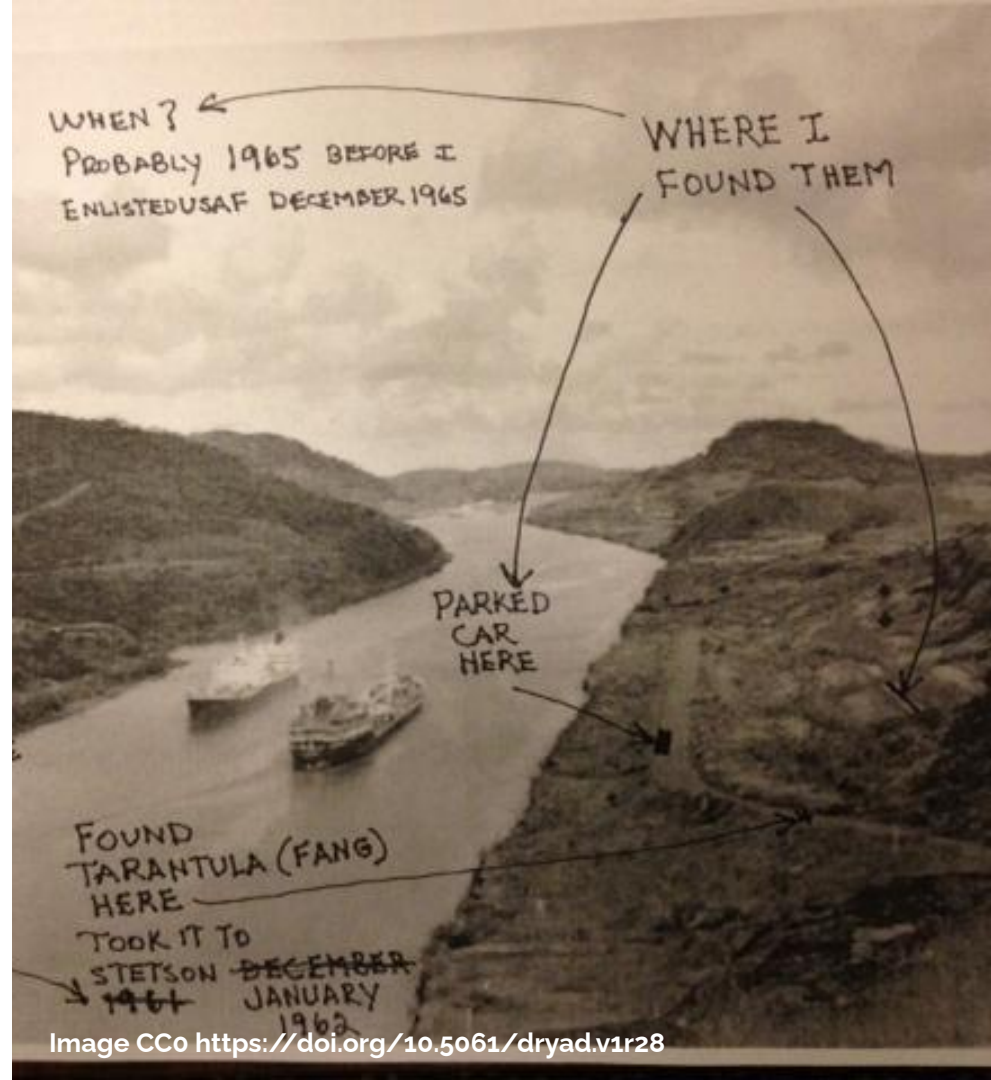




Image CCo <https://doi.org/10.5061/dryad.v1r28>

NIH Policy for Data Management and Sharing

Maximize the appropriate sharing of scientific data through:

-  Use of established repositories.
 -  Timely publication.
 -  Data quality assurance.
-

“Data should be of sufficient quality to validate and replicate research findings”

*

https://grants.nih.gov/grants/guide/notice-files/NOT-OD-21-013.html#_ftn8



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Data from: Neurologic manifestations in an infant with
COVID-19



Respiratory virus shedding in exhaled breath and efficacy of
face masks

THE GLOBAL IMPACT OF OPEN DATA

UNITED STATES OPENING GPS DATA FOR CIVILIAN USE CREATING A GLOBAL PUBLIC UTILITY

by Andrew Young, Christina Rogawski and Stefaan Verhulst*



Common goals

Journals and data repositories will
need to collaborate to realize the intent
of these policies



Image CCo <https://doi.org/10.5061/dryad.4b8gthtbw>

Focus on reuse

Reproduce findings

Replicate findings

Repurpose to generate novel findings

Perform meta-analysis

Seed machine learning algorithms

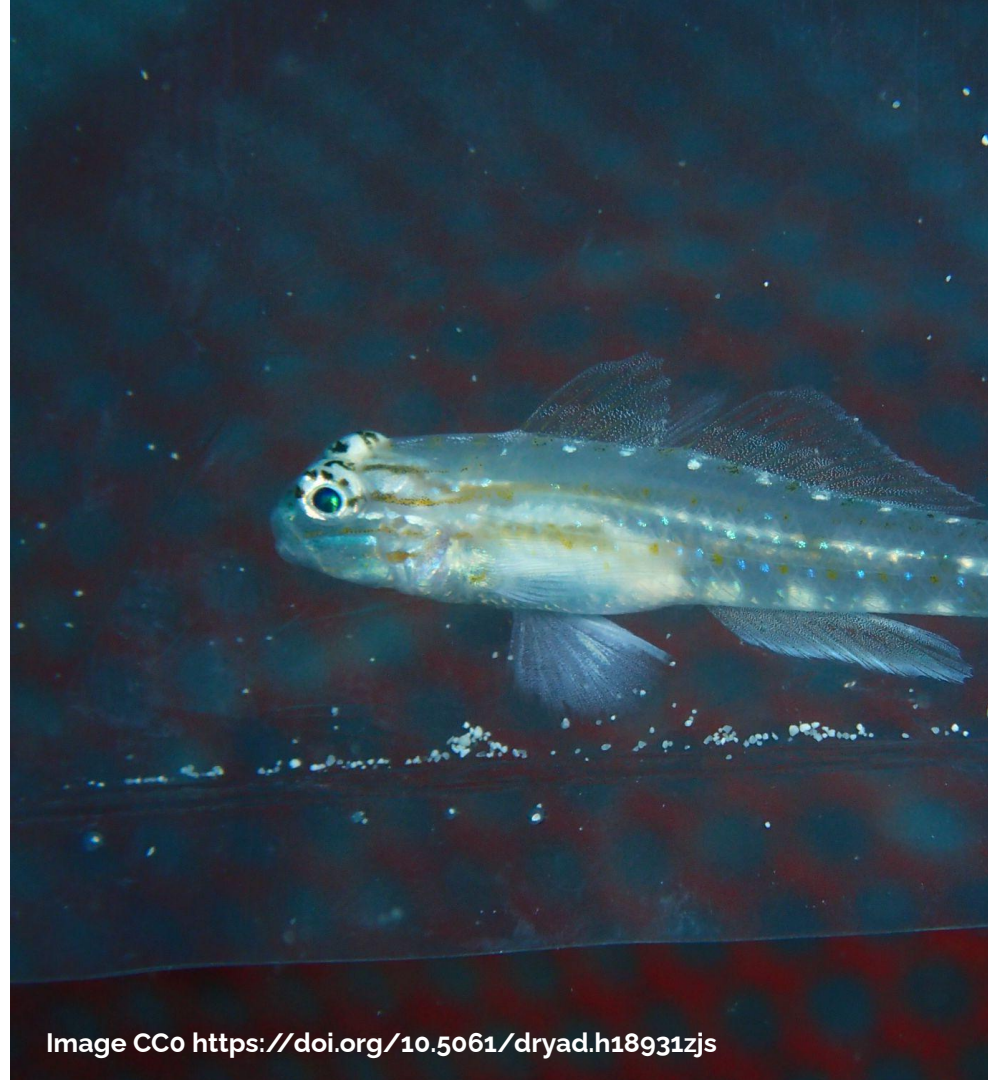


Image CCo <https://doi.org/10.5061/dryad.h18931zjs>

Ensure (meta)data quality

... at scale



Image CCo <https://doi.org/10.5061/dryad.s1rn8pk5m>

Make connections

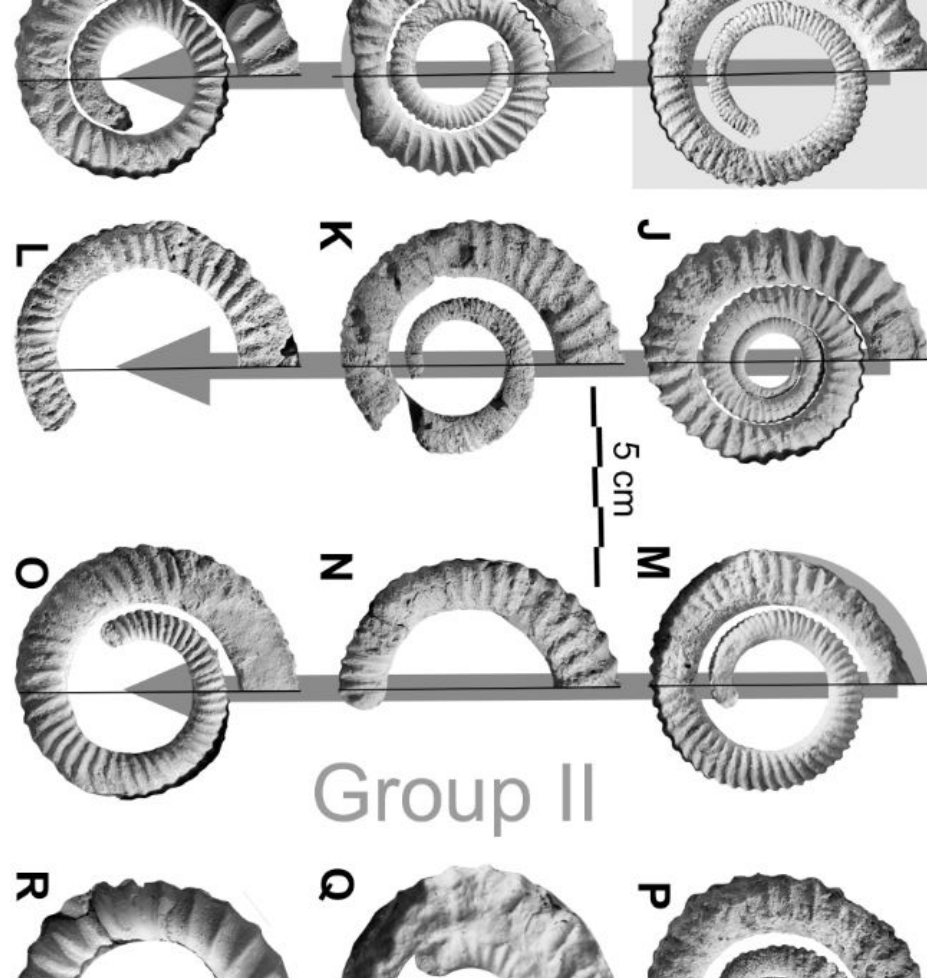


Image CCo <https://doi.org/10.5061/dryad.k9b14>

ORCID

ROR

DataCite

DC¹

Data Citation Principles

Crossref
Funder Registry

ALAN effects on coastal phytoplankton

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Publication date: October 26, 2022

Publisher: Dryad

<https://doi.org/10.5061/dryad.vdncjsxtn>

Data files



Download dataset

> August 30, 2022

Citation

Spatharis, Sofie (2022), ALAN effects on coastal phytoplankton, Dryad, Dataset,
<https://doi.org/10.5061/dryad.vdncjsxtn>

Abstract

Related Works

Article

<https://doi.org/10.1098/rspb.2021.0525>

Preprint

<https://doi.org/10.11...01/2021.02.08.430211>

Funding

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Southeastern Ontario Academic Medical Organization



Preserve over time



Image CCo <https://doi.org/10.5061/dryad.s1rn8pk5m>

Thank you!

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References

National Academies of Sciences, Engineering, and Medicine. (2019). Reproducibility and replicability in science. National Academies Press.

<https://www.ncbi.nlm.nih.gov/books/NBK547546/>

Cousijn, H., Braukmann, R., Fenner, M., Ferguson, C., van Horik, R., Lammey, R., Meadows, A., & Lambert, S. (2021). Connected Research: The Potential of the PID Graph. In Patterns (Vol. 2, Issue 1, p. 100180). Elsevier BV. <https://doi.org/10.1016/j.patter.2020.100180>
