

Tracking and Exposing Usage Metrics

Dave Vieglais, University of Kansas Amber Budden, U. New Mexico Matt Jones, NCEAS

11 June 2019









Make Data Count: A Brief History

Making Data Count 2014 -2015



Award Abstract #1448821

Making Data Count: Developing a Data Metrics Pilot

Making Data Count survey responses

Kratz, John

Strasser, Carly

Publication date: March 25, 2015

Comment | OPEN

Making data count

John E. Kratz [™] & Carly Strasser









66

Majorities of both researchers and data managers ranked landing page views as the least interesting metric. Researchers consistently ranked downloads as the second most interesting, while data managers (who were given a longer list to rank) put them in the middle. Resoundingly,

both researchers and data managers measure scholarly prestige in citations; 85% of researchers and 61% of data managers ranked citations as the most interesting metric. This ordering-viewing, downloading, citing-is consistent with the results our previous researcher survey⁴. It



2017

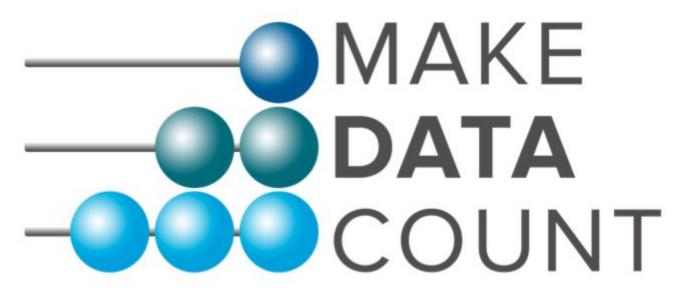




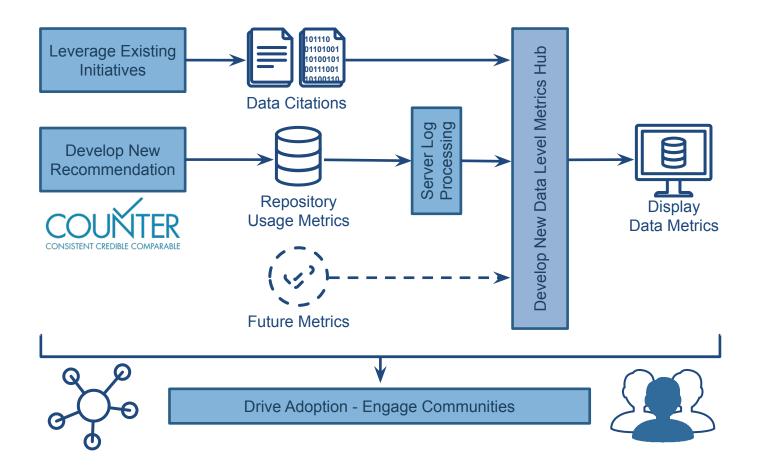


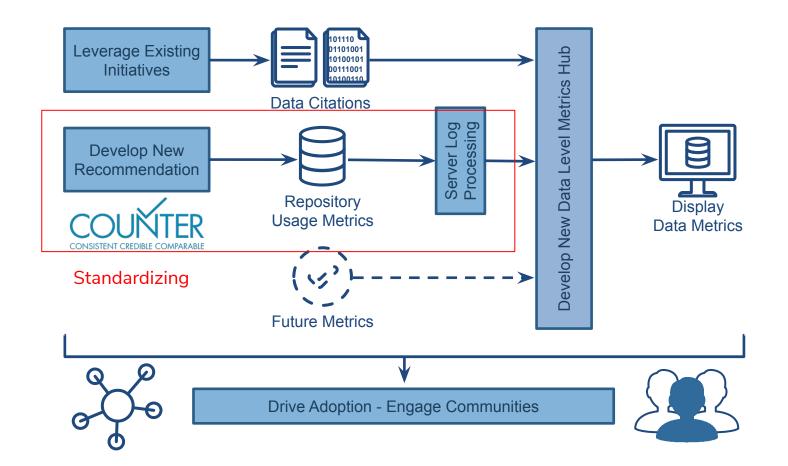






www.makedatacount.org





COUNTER Code of Practice for Research Data



... provides the standard that enables the knowledge community to count the use of electronic resources

www.projectcounter.org/code-of-practice-rd-sections/

Key Definitions

Dataset: An aggregation of data, published or curated by a single agent, available for access or download in one or more formats

Component: Part of the data available for a dataset, and can be accessed or downloaded individually

Collection: A curated aggregation of datasets

Version: Significant changes to the content and/or metadata associated with changes in one or more components





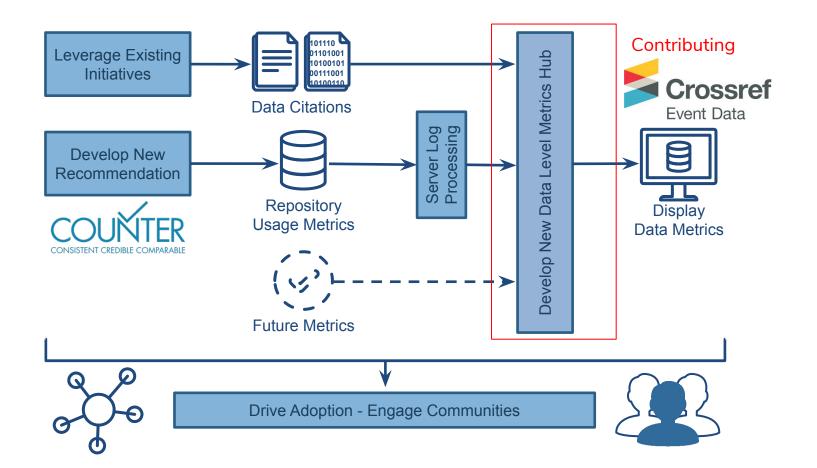
COUNTER Sessions

Session: a successful request of an online service. A single user connects to the service or database and ends by terminating activity.

Total_Dataset_Investigations: Total number of times a dataset or information related to a dataset was accessed

Unique_Dataset_Investigations: Number of datasets investigated in unique user-sessions





Citations and/or usage for:

- A dataset?
- Researcher's datasets?
- A data center?
- Resulting from funding?







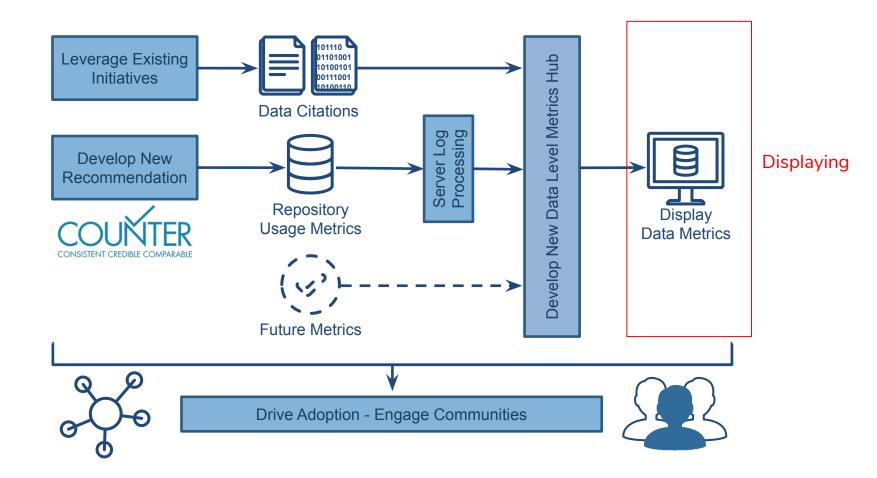








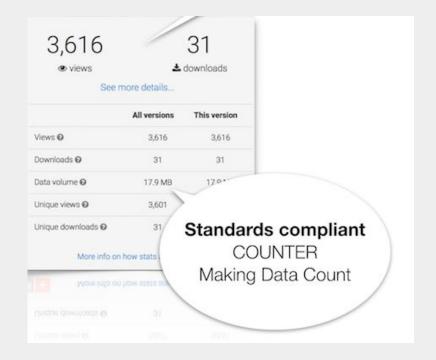






Usage statistics launched!

by 👩 Alex Ioannidis on July 18, 2018



Implement Backend Support for Make Data Count use and citation metrics #4821



Introduction

All installations of Dataverse that use DOIs as persistent identifiers are encouraged to send data usage metrics to the "open hub" operated by DataCite for Make Data Count.

Data from: Metagenomic sequencing detects respiratory pathogens in hematopoietic cellular transplant patients

Download the dataset ~ 0 B

Search



Download Data Publication (PDF)

Langelier, Charles

🏶 DRYAD

Zinter, Matt S.

Kalantar, Katrina K.

Yanik, Gregory A.

Christenson, Stephanie

O'Donovan, Brian White, Corin C.

Sapru, Anil

Dvorak, Christopher C.

Miller, Steve

Chiu, Charles Y.

DeRisi, Joseph L. Publication date: July 10, 2017

Publisher: Dryad

https://doi.org/10.5061/dryad.800tj

Metrics



240 views



139 downloads



1 citations

Keywords

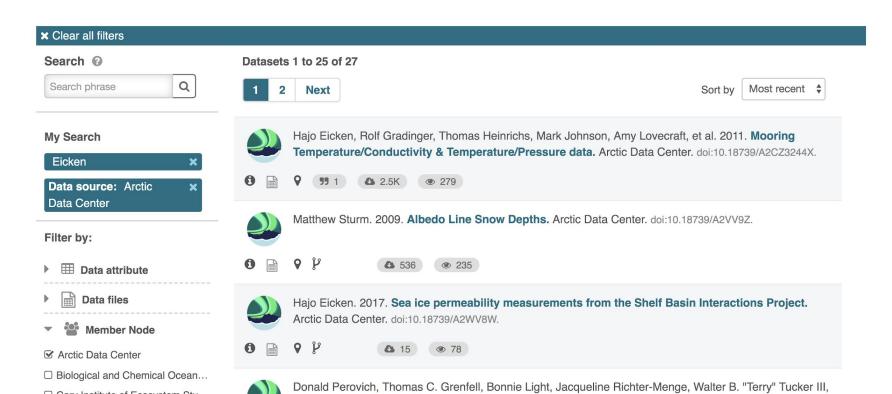
next generation sequencing

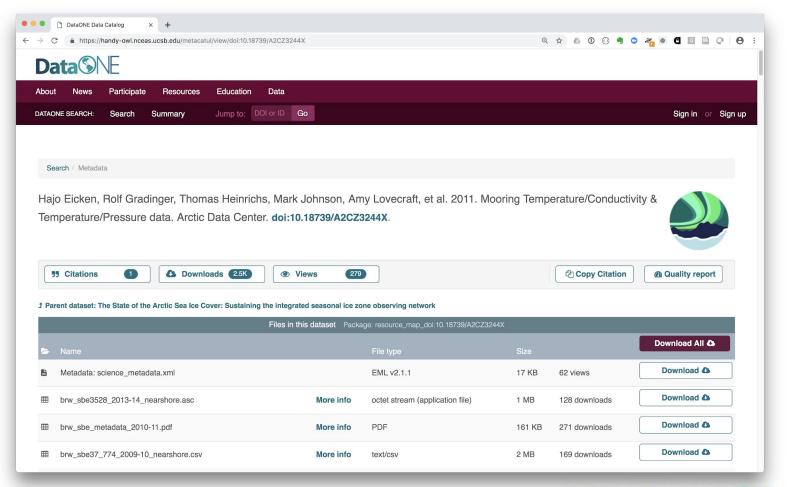
pneumonia

lower respiratory tract infection







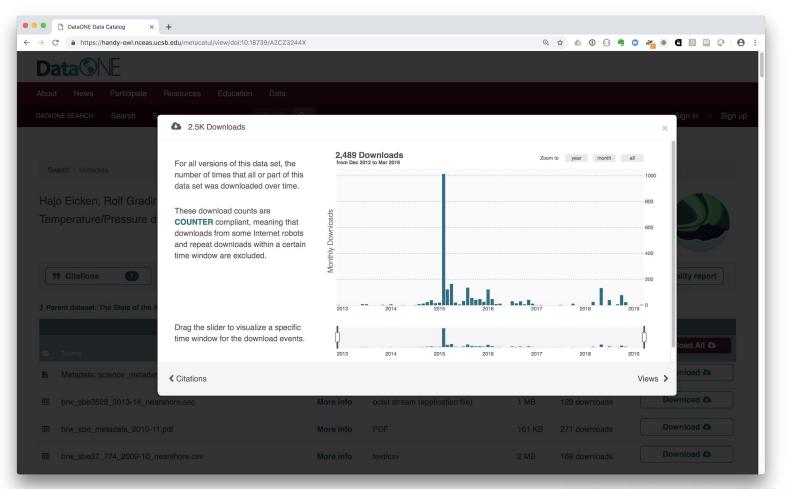










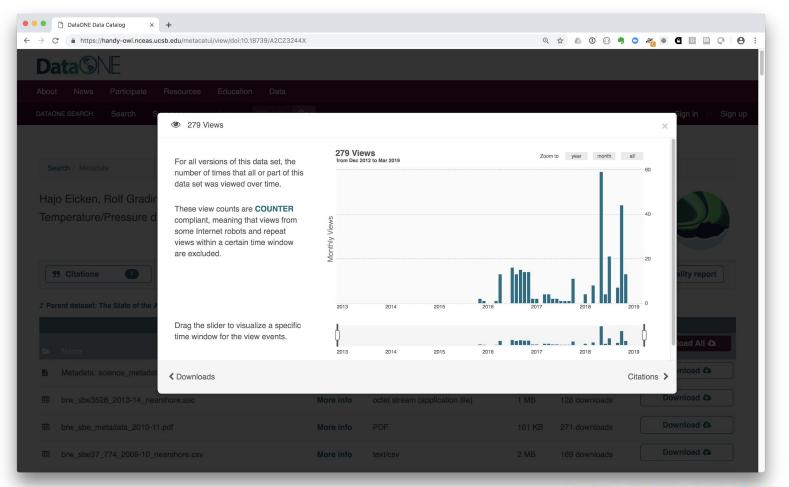










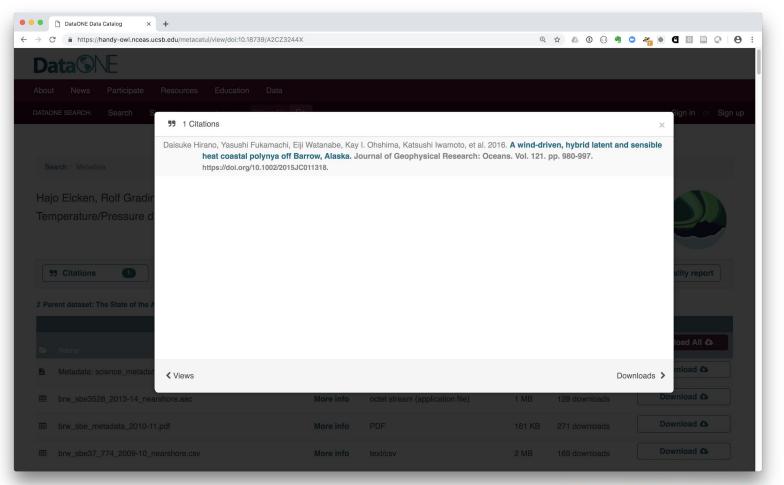




















JGR Oceans



A wind-driven, hybrid latent and sensible heat coastal polynya off Barrow, Alaska

Daisuke Hirano X, Yasushi Fukamachi, Eiji Watanabe, Kay I. Ohshima, Katsushi Iwamoto, Andrew R. Mahoney, Hajo Eicken, Daisuke Simizu, Takeshi Tamura

First published: 08 January 2016 | https://doi.org/10.1002/2015JC011318 | Cited by: 7

SECTIONS







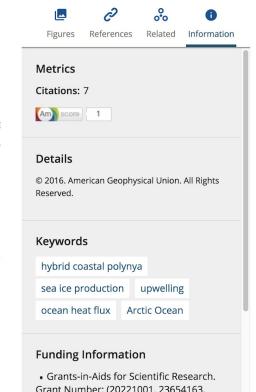


Abstract

The nature of the Barrow Coastal Polynya (BCP), which forms episodically off the Alaska coast in winter, is examined using mooring data, atmospheric reanalysis data, and satellite-derived sea-ice concentration and production data. We focus on oceanographic conditions such as water mass distribution and ocean current structure beneath the BCP. Two moorings were deployed off Barrow, Alaska in the northeastern Chukchi Sea from August 2009 to July 2010. For sea-ice season from December to May, a characteristic sequence of five events associated with the BCP has been identified; (1) dominant northeasterly wind parallel to the Barrow Canyon, with an offshore component off Barrow, (2) high sea-ice production, (3) upwelling of warm and saline Atlantic Water beneath the BCP, (4) strong up-canyon shear flow associated with displaced density surfaces due to the upwelling, and (5) sudden suppression of ice growth. A baroclinic current structure, established after the upwelling, caused enhanced vertical shear and



Volume 121, Issue 1 January 2016 Pages 980-997



Aggregations: Repositories



Arctic Data Center



Member Node

The US National Science Foundation Arctic Data Center operates as the primary repository supporting the NSF Arctic community for data preservation and access.

2 years, 4 months

DataONE Member since 2016

99 8 Citations

- I.J. Smith, H. Eicken, A.R. Mahoney, R. Van Hale, A.J. Gough, et al. 2016. Surface water mass composition changes captured by cores of Arctic land-fast sea ice. Continental Shelf Research. Vol. 118. pp. 154-164. https://doi.org/10.1016/j.csr.2016.02.008.
- Lawrence C. Hamilton, Kei Saito, Philip A. Loring, Richard B. Lammers, and Henry P. Huntington. 2016. Climigration? Population and climate change in Arctic Alaska. Population and Environment. Vol. 38. pp. 115-133. https://doi.org/10.1007/s11111-016-0259-6.
- Lincoln H Pitcher, Laurence C. Smith, Colin J. Gleason, and Kang Yang. 2016. CryoSheds: a GIS modeling framework for delineating land-ice watersheds for the Greenland Ice Sheet. GIScience & Remote Sensing. Vol. 53. pp. 707-722. https://doi.org/10.1080/15481603.2016.1230084.
- Daisuke Hirano, Yasushi Fukamachi, Eiji Watanabe, Kay I. Ohshima, Katsushi Iwamoto, et al. 2016. A wind-driven, hybrid latent and sensible heat coastal polynya off Barrow, Alaska. Journal of Geophysical Research: Oceans. Vol. 121. pp. 980-997. https://doi.org/10.1002/2015JC011318.

Magan O'Sadniak Malaalm Ingham Haio Eigkan and Erin Pottit 2016. In city field magayrements of the temporal evalution of









Arctic Data Center



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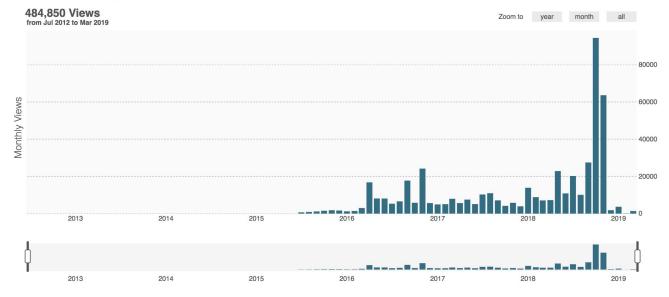
2 years, 4 months

DataONE Member since 2016

484.9K Views

For all versions of this data set, the number of times that all or part of this data set was viewed over time. These view counts are COUNTER compliant, meaning that views from some Internet robots and repeat views within a certain time window are excluded.

Drag the slider to visualize a specific time window for the view events.













Arctic Data Center



Member Node

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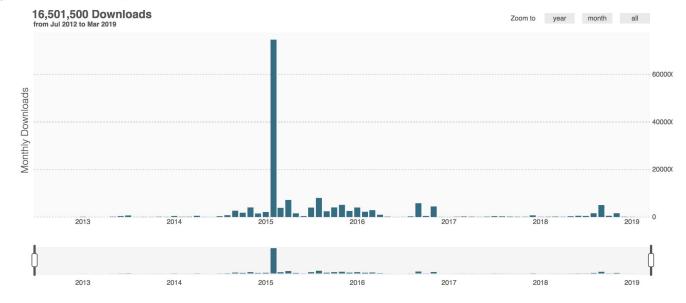
2 years, 4 months

DataONE Member since 2016

16.5M Downloads

For all versions of this data set, the number of times that all or part of this data set was downloaded over time. These download counts are COUNTER compliant, meaning that downloads from some Internet robots and repeat downloads within a certain time window are excluded.

Drag the slider to visualize a specific time window for the download events.









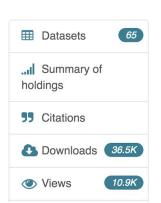


Aggregations: Researchers

Jeanette Clark

Username: http://orcid.org/0000-0003-4703-1974

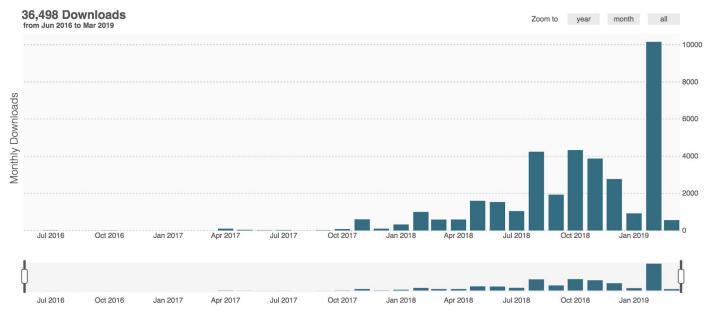
Contributor 2 years, 9 months since June 30, 2016



36.5K Downloads

For all versions of this data set, the number of times that all or part of this data set was downloaded over time. These download counts are COUNTER compliant, meaning that downloads from some Internet robots and repeat downloads within a certain time window are excluded.

Drag the slider to visualize a specific time window for the download events.











Aggregations from DataONE

- Repositories
- Researchers
- Projects
- Groups and Labs
- Grants
- Funders
- ...



Challenges for Biodiversity

- → Billions of records, trillions of events
- → Identifier schemes with decentralized authority
- → Publication practices to include identifiers
- → Researcher identification



Make Data Count!



Process logs against the CoP for comparable views and downloads



Submit standardized logs to EventData for aggregation and transparency



Display comparable views, downloads, and citations on your user interface



Encourage publishers to share data set identifiers



ALWAYS reuse existing identifiers

