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Data Management; U.S. Federal Mandate Requirements

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LEARN. SHARE. ADVANCE.

Data Management U.S. Federal Mandate Requirements

Paul H. Bern, Ph.D. Research Data Services Librarian



What Is Open Data?

- Is freely available on the internet;
- Permits any user to download, copy, analyze, reprocess, pass to software or use for any other purpose; and
- Is without financial, legal, or technical barriers other than those inseparable from gaining access to the internet itself.
 - Scholarly Publishing and Academic Resources Coalition

Why would anyone want to give up their data?

Hastens discovery

Enables new discovery

Improves integrity/transparency

Saves money and time

Increased recognition

Open Access is Nothing New

Roper Center, 1942

ICSU/World Data System (World Data Center), 1957

ICPSR, 1962



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Public Opinion Research Archive

Search ...



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©Flickr.com Credit: Joachim Böttger

Latest News

WDS Blog

International Data Week 2018: The Digital Frontiers of Global Science



Events **



22 Sep 201

The second edition of International Data Week (IDW 2018) will be held on 22–26 October 2018 in Gaborone, Botswana. Hosted by the Botswana Open Science and Open Data Forum, IDW 2018 will bring together data professionals and researchers from all disciplines and from all parts of the globe. Coorganized by the ICSU World Data System (WDS), the ICSU Committee on Data for Science and

Technology ...



Enthusiatic?

Upcoming Events & Deadlines

13-16 Nov 2017

Sheraton Hotel, Sioux Falls, South Dakota Pecora 20 Conference: Observing a Changing Earth

11-15 Dec 2017

New Orleans Ernest N. Morial Convention Center, USA

AGU 2017: Trustworthy Data Repositories to Increase the Visibility and Value of Your Research Data



DATA & PUBLICATIONSEVERYTHING ELSE

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News



New Releases through 2017-10-22



Oct 10, 2017 Extending the Nobel effect



Oct 9, 2017 ICPSR's 2016-2017 annual report released

More Headlines

Oct 20, 2017

Two-Part Free Data Webinar: Understanding and Using the Head Start Impact Study (HSIS) Center Analysis File*

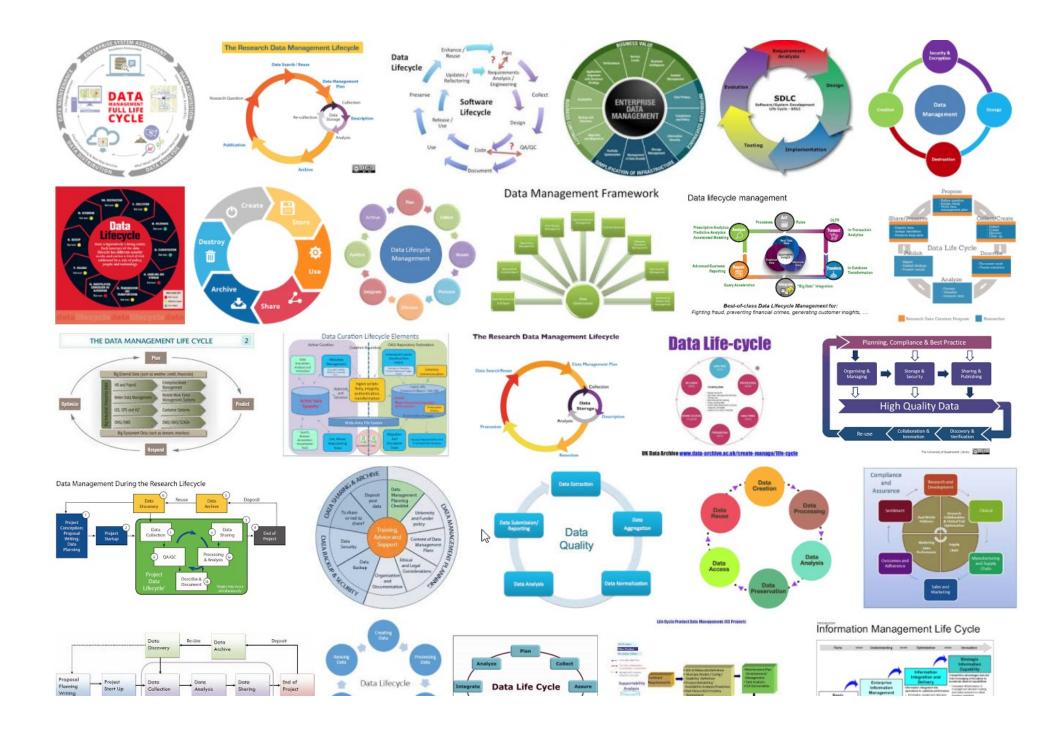
Oct 18, 2017

Funding Opportunities for Junior Scholars and Ph.D. Candidates

Oct 16, 2017

New Releases through 2017-10-15

What is Data Management?



"Data management is the development, execution and supervision of plans, policies, programs and practices that control, protect, deliver and enhance the value of data and information assets."

Data Management Association International

The organization, documentation and preservation of data created and gathered during the course of a research project.

- Paul Bern

Federal Data Management and Sharing

HOME ABOUT GRANTS FUNDING POLICY & COMPLIANCE NEWS & EVENTS ABOUT OER

Home » Policy & Compliance » Policy & Guidance » NIH Data Sharing Information - Main Page

Policy & Compliance

NIH Grants Policy Statement

Notices of Policy Changes

Compliance & Oversight

Select Policy Topics

NIH Data Sharing Policy

Data sharing is essential for expedited translation of research results into knowledge, products and procedures to improve human health.

The Final NIH Statement on Sharing Research Data was published in the NIH Guide on February 26, 2003. This is an extension of NIH policy on sharing research resources, and reaffirms NIH support for the concept of data sharing. The new policy becomes effective with the October 1, 2003 receipt date for applications or proposals to NIH.

- Data Sharing Regulations/Policy/Guidance Chart for NIH Awards (08/30/2006) (MS Word 58 KB) This chart is
 designed as a quick guide only for the purpose of identifying various data sharing regulation/policy/guidance documents
 applicable to NIH funding.
- NIH Guide Notice (02/26/2003) Final NIH Statement on Sharing Research Data.
- NIH Guide Notice (03/01/2002) NIH Announces a Draft Statement on Sharing Research Data.
- NIH Data Sharing Policy and Implementation Guidance (03/05/2003) Guidance providing the NIH policy statement on data sharing and additional information on the implementation of this policy.
 - Prequently Asked Questions Data Sharing (02/16/2004) Listing of Frequently Asked Questions that will be updated as new questions are received. Please check back periodically for new questions and answers.
- Data Sharing Workbook (PDF 75 KB) or (MS Word 74 KB) (02/16/2004) Workbook to show how investigators
 working in a variety of scientific areas have shared their data.
- NIH Data Sharing Brochure (PDF 244 KB) (05/20/2003) Printable brochure that summarizes main elements of the NIH Data Sharing Policy.
- Testimonials (MS Word 22 KB) (03/05/2003) First-hand accounts from researchers who have shared data.
- Other Data Sharing Documents and Resources (02/19/2004) Additional resources relating to data sharing.
- For NIH Staff Use (02/16/2004)

Note: For help accessing PDF, RTF, MS Word, Excel, PowerPoint, Audio or Video files, see Help Downloading Files.

This page last updated on April 17, 2007 Content Manager: sharing@nih.gov Technical Issues: E-mail OER Webmaster Research Areas

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Office of Budget, Finance, & Award Management

Budget Division

Division of Acquisition and Cooperative Support

Division of Financial Management >

Division of Grants & Agreements

Division of Institution & Award Support

CAAR Branch

Policy Office

Systems Office

Staff

Large Facilities Office

Advisory Committees

Business and Operations Advisory Committee

Dissemination and Sharing of Research Results

W.

NSF DATA SHARING POLICY

Investigators are expected to share with other researchers, at no more than incremental cost and within a reasonable time, the primary data, samples, physical collections and other supporting materials created or gathered in the course of work under NSF grants. Grantees are expected to encourage and facilitate such sharing. See Proposal & Award Policies & Procedures Guide (PAPPG) Chapter XI.D.4.

NSF DATA MANAGEMENT PLAN REQUIREMENTS

Proposals submitted or due on or after January 18, 2011, must include a supplementary document of no more than two pages labeled "Data Management Plan". This supplementary document should describe how the proposal will conform to NSF policy on the dissemination and sharing of research results. See PAPPG Chapter II.C.2.j for full policy implementation.

REQUIREMENTS BY DIRECTORATE, OFFICE, DIVISION, PROGRAM, OR OTHER NSF UNIT

Links to data management requirements and plans relevant to specific Directorates, Offices, Divisions, Programs, or other NSF units, are provided below. If guidance specific to the program is not provided, then the requirements established in PAPPG Chapter II.C.2.j apply.

Please note that if a specific program solicitation provides guidance on preparation of data management plans, such guidance must be followed.

HOME · BLOG

Expanding Public Access to the Results of Federally Funded Research

FEBRUARY 22, 2013 AT 12:04 PM ET BY MICHAEL STEBBINS







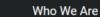
Summary: The Obama Administration is committed to the proposition that citizens deserve easy access to the results of research their tax dollars have paid for. That's why, in a policy memorandum released today, OSTP Director John Holdren has directed Federal agencies with more than \$100M in R&D expenditures to develop plans to make the results of federally funded research freely available to the public—generally within one year of publication.

The Obama Administration is committed to the proposition that citizens deserve easy access to the results of scientific research their tax dollars have paid for. That's why, in a policy memorandum released today, OSTP Director John Holdren has directed Federal agencies with more than \$100M in R&D expenditures to develop plans to make the published results of federally funded research freely available to the public within one year of publication and requiring researchers to better account for and manage the digital data resulting from federally funded scientific research. OSTP has been looking into this issue for some time, soliciting broad public input on multiple occasions and convening an interagency working group to develop a policy. The final policy reflects substantial inputs from scientists and scientific organizations, publishers, members of Congress, and other members of the public—over 65 thousand of whom recently signed a We the People petition asking for expanded public access to the results of taxpayer-funded research.

To see the new policy memorandum, please

visit: http://obamawhitehouse.archives.gov/sites/default/files/microsites/ostp/ostp_public_access_memo_2013.pdf

To see Dr. Holdren's response to the We the People petition, please



SPARC*

What We Do

Why It Matters

Browse Data Sharing Requirements by Federal Agency

This community resource for tracking, comparing, and understanding both current and future U.S. federal funder research data sharing policies is a joint project of SPARC & Johns Hopkins University Libraries. Click the icons below to select up to three agencies to view or compare. Click here to download the full data set.

Email corrections to nick@sparcopen.org

R

VIEW ARTICLE SHARING POLICIES

Q Search for an agency...





















The Feds aren't the only ones:

Alfred P. Sloan

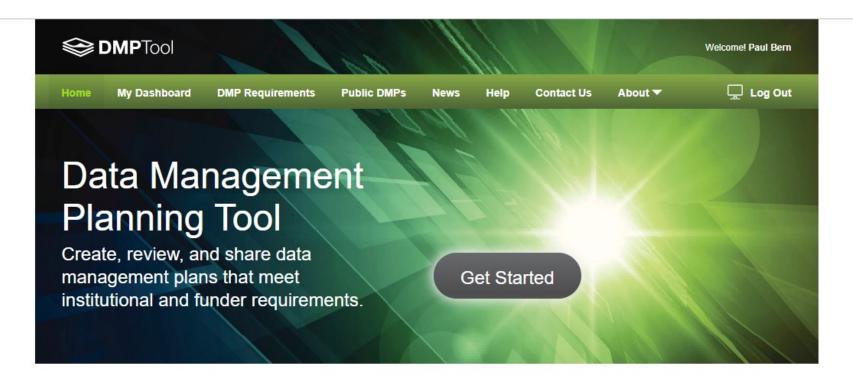
Gordon and Betty Moore

Bill and Melinda Gates

Many journals

Preparing a Data Management Plan







PUBLIC DMPS

List of sample data management plans provided by DMPTool users.

- » UNDERSTANDING THE ROLE OF PHYSICIAN INTEGRATION WITHIN NURSING HOMES IN POST-ACUTE CARE OUTCOMES
- » "A Microgravity-Themed Collaborative Intervention Promoting Student Selection of a STEM Career Pathway"
- » A Political Ecology of Value: A Cohort-Based Ethnography of the Environmental Turn in Nicaraguan Urban Social Policy

View All



DMPTOOL NEWS

Latest information about data management and the DMPTool.

- » NSF EAGER Grant for Actionable DMPs
- » DMPRoadmap summer camp news
- » On the right track(s) DCC release dra...
- » RDA-DMP movings and shakings
- » Active, actionable DMPs

More News



DMPTOOL HELP

Overview of how to use the tool, plus resources and guidance on data management.

- » Frequently Asked Questions
- » Create a DMP
- » Administer the DMPTool
- » Data management guidance
- » Community resources

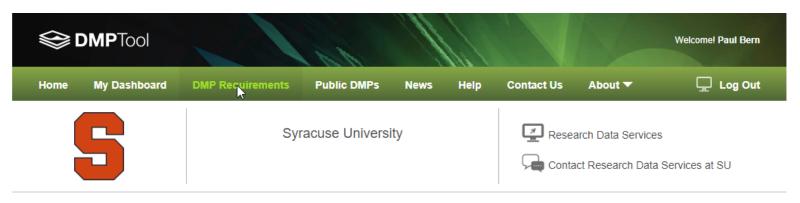
View All



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No DMP REQUIREMENTS

Use the A-Z links below to narrow down the list by institution or use the search box to search for specific DMP Templates. Sample plans are not necessarily from the funder.

Search

A - F

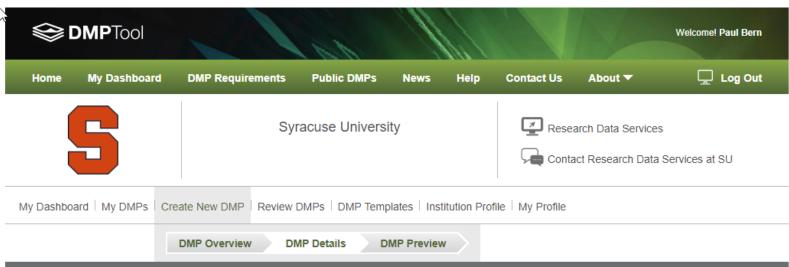
G-L

M - S

T - Z

All

Template	Funder	Funder Links	Sample Plans (if available)
Alfred P. Sloan Foundation	Alfred P. Sloan Foundation	Alfred P. Sloan Foundation	
BCO-DMO NSF OCE: Biological and Chemical Oceanography	Woods Hole Oceanographic Institution	NSF OCE Sample and Data Policy, May 2011 (PDF) NSF GEO Data Policies	
Department of Defense (DOD)	Department of Defense (DOD)	DOD Public Access Plan	
Department of Energy (DOE): Generic	Department of Energy (DOE)	Policy for Digital Research Data Management	
Department of Energy (DOE): Office of Science	Department of Energy (DOE)	DOE Statement on digital data management	
DMP Template from DCC	Digital Curation Centre	DCC: How to Develop a DMP	
Gordon and Betty Moore Foundation	Gordon and Betty Moore Foundation	Guidelines	GBMF: Sample Plan #1 GBMF: Sample Plan #2 GBMF: Sample Plan #3 GBMF: Sample Plan
IMLS (2014-): Digital Content	Institute of Museum and Library Services	Institute of Museum and Library	



DMP DETAILS

Institute of Education Sciences (US Dept of Education)

Click on a section below to edit it at any time.

= Complete

* = Mandatory

Template Outline

Roles and responsibilities

Type of data and format to be shared

Documentation to be provided

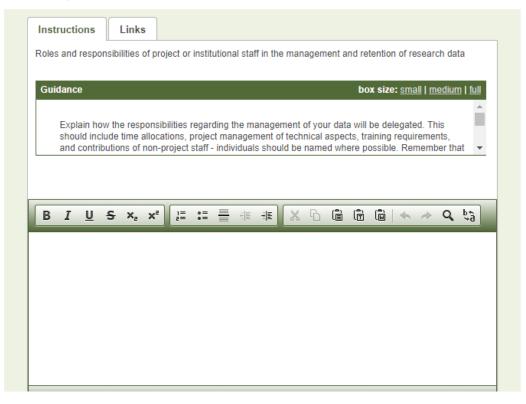
Confidentiality of data

Expected schedule for data sharing

Method of data sharing

Data sharing agreement

Circumstances that prevent sharing





ICPSR



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Data Management & Curation



QUALITY PRESERVATION ACCESS CONFIDENTIALITY CITATION TOOLS & SERVICES

Data Management & Curation

ICPSR stores, curates, and provides access to scientific data so others can reuse the data and validate research findings. Curation, from the Latin "to care," is the process that ICPSR uses to add value to data, maximize access, and ensure long-term preservation.

Data curation is akin to work performed by an art or museum curator. Through the curation process, data are organized, described, cleaned, enhanced, and preserved for public use, much like the work done on paintings or rare books to make the works accessible to the public now and in the future. With the modern Web, it's increasingly easy to post and share data. Without curation, however, data can be difficult to find, use, and interpret. Through curation, ICPSR provides meaningful and enduring access to data.

Quality



Data at ICPSR are enhanced with meaningful information to make it complete, self-explanatory, and usable for future researchers. As a repository, ICPSR adheres to standards that demonstrate it is organizationally, procedurally, and technologically sound as a trustworthy data custodian.

- · Preparing Data for Archiving
- Guide to Archiving Social Science Data for Institutional Repositories (pdf)
- Curating Data at ICPSR

Preservation



Digital preservation is the proactive and ongoing management of digital content to lengthen the lifespan and mitigate against loss. ICPSR preserves its data resources for the long-term, guarding against deterioration, accidental loss, and digital obsolescence. ICPSR has a 50-year track record of reliably storing research data.

- Trusted Digital Repositories
- · Digital Preservation Policies and Planning at ICPSR

Access



ICPSR hosts data in a repository with powerful search capabilities. Indexed by all the major search engines, ICPSR data are easily

Confidentiality



Data at ICPSR are screened for confidentiality and privacy concerns. Stringent protections are in place for securing and distributing sensitive Soooo...Where should I put my data?

NOT a personal web page!

Funder suggested/required

Disciplinary archive

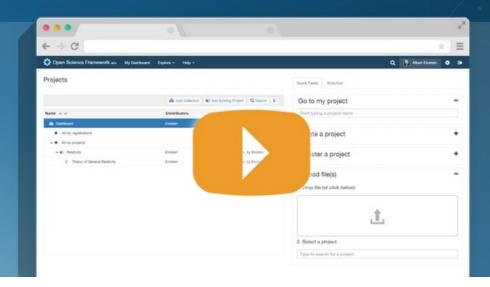
General archive



Open Science Framework

A scholarly commons to connect the entire research cycle





FREE A	ND OPEN SOURCE. START NOW.
Full Name	
Contact Email	
Confirm Email	
Password (Must be	8 to 255 characters)
By clicking "Sign up fr	ee", you agree to our Terms and that you have read our Privacy Policy, including our information on Cookie Use. Sign up free

Public

₽ O

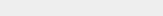
黄土

2017-10-20 09:43 AM

2017-10-20 09:20 AM

2017-10-20 06:17 AM

OSFHOME ▼





Bireme

Contributors: Andre Heughebaert, Dag Endresen, Anne-Sophie ARCHAMBEAU, Rui Figueira, Liam Lysaght, Wouter Addink, Hanna Koivula

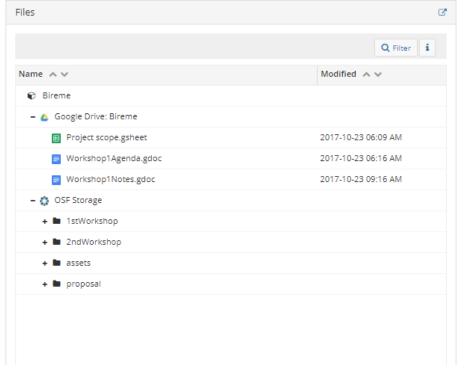
Date created: 2017-10-02 06:14 AM | Last Updated: 2017-10-23 09:55 AM

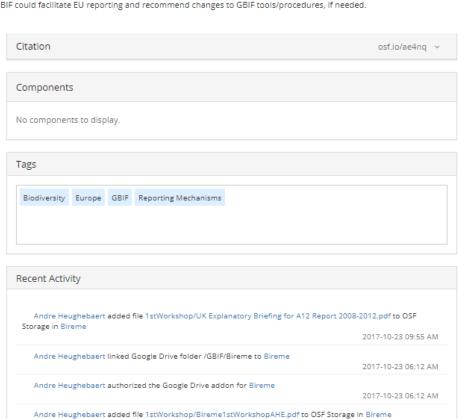
Category: Project 📦

Description: This project aims to describe EU reporting processes and data flows in five EU countries, investigate how GBIF could facilitate EU reporting and recommend changes to GBIF tools/procedures, if needed.

License: CC-By Attribution 4.0 International 6







Andre Heughebaert added file 1stWorkshop/EEA_Mette.pdf to OSF Storage in Bireme

< 1 2 3 4 ... 12 >

Wouter Addink updated wiki page EEA, Eionet and ETC-BD to version 5 of Bireme



My data



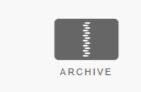


Upload











NEON-DS-Met-Ti... .zip (10.02 MB)

NEON-DS-Airbor... .zip (156.64 MB)

NEON-DS-Site-La....zip (266.33 kB)

NEON-DS-Lands... .zip (26.23 MB)

Download all (822.49 MB)

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4 files

citations



NEON Spatio-temporal Teaching Data Subset

Version 10

→ 31.10.2016, 17:25 by NEON Data Skills Teaching Data Subsets, Leah Wasser, Megan A. Jones

This includes teaching data subsets that contains spatio-temporal data for the National Ecological Observatory Network's Harvard Forest and San Joaquin Experimental Range (SJER) field sites.

The tutorials using these data subset can be found on the NEON Data Skills portal .

CONTENTS:

NEON-DS-Met-Time-Series.zip: Precipitation, temperature and other variables collected from a flux tower at the NEON Harvard Forest site. NOTE: these data are not collected from the NEON tower.

NEON-DS-Site-Layout-Files.zip: A set of shapefiles for the NEON's Harvard Forest field site and US and (some) state boundary layers.

NEON-DS-Landsat-NDVI.zip: 2011 NDVI data product provided by USGS cropped to NEON's Harvard Forest and San Joaquin Experimental Range field sites.

NEON-DS-Airborne-RemoteSensing.zip: LiDAR data including a canopy height model,

CATEGORIES

543

views

- Education
- Higher Education
- Ecology
- Photogrammetry and Remote Sensing

7885

downloads

Data Format

KEYWORD(S)

NEON

National Ecological Observatory Network

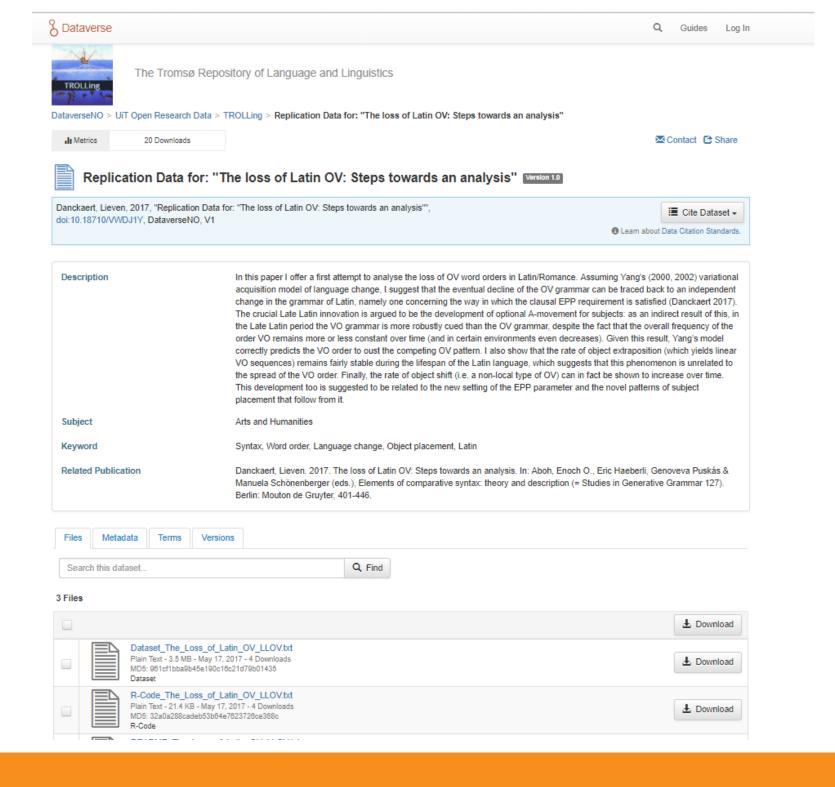
Remote Sensing



Micrometeorology

Landsat

LICENCE







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FIND DATA SEARCH/COMPARE VARIABLES DATA-RELATED PUBLICATIONS RESOURCES FOR STUDENTS HELP

Quick Download -

(32 datasets; 901,861 KB)

Table of Contents

- Access Notes
- Dataset(s)
- Study Description
- Citation
- Funding
- Scope of Study
- Methodology
- Version(s)
- Related Publications
- Variables
- Instructional Resources
- Utilities
- Metadata Exports
- Download Statistics

National Longitudinal Study of Adolescent to Adult Health (Add Health), 1994-2008 [Public Use] (ICPSR 21600)

Principal Investigator(s): @ Harris, Kathleen Mullan, University of North Carolina-Chapel Hill; Udry, J. Richard, University of North Carolina-Chapel Hill

Summary:

The National Longitudinal Study of Adolescent to Adult Health (Add Health), 1994-2008 [Public Use] is a longitudinal study of a nationally representative sample of U.S. adolescents in grades 7 through 12 during the 1994-1995 school year. The Add Health cohort was followed into young

adulthood with four in-home interviews, the most recent conducted in 2008 when the sample was aged 24-32. Add Health combines longitudinal survey data on respondents' social, economic, psychological, and physical well-being with co... more info

Access Notes

 The public-use data files in this collection are available for access by the general public. Access does not require affiliation with an ICPSR member institution.

Dataset(s)

WARNING: Because this study has many datasets, the download all files option has been suppressed, and you will need to download one dataset at a time.

WARNING: This study is over 150MB in size and may take several minutes to download on a typical internet connection.



Data Sharing for Demographic Research

This study was originally processed, archived, and disseminated by Data Sharing for Demographic Research (DSDR), a project funded by the Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD).

OPENIC

• Name your project • Upload and describe files • Publish

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Guidance and Resources

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home

DATA BROWSE RESULTS



By topic

Click here to browse by a different dimension

policy stability

Data for: Blame Avoidance and Policy Stability in Developing Democracies: The Politics of Public Security in Buenos Aires

PID: QDR:10068 PROJECT

AIDS policy

Grassroots Bureaucracy: Intergovernmental Relations and Popular Mobilization in Brazil's AIDS Policy Sector

PID: QDR:10066 PROJECT

Argentina

The Argentine Supreme Court in Press: 1995–1999

Thank you!

Links

https://sparcopen.org/open-data

http://dama.org/

https://ropercenter.cornell.edu/

https://www.icsu-wds.org/

https://grants.nih.gov/grants/policy/data_sharing/

https://www.nsf.gov/bfa/dias/policy/dmp.jsp

https://obamawhitehouse.archives.gov/blog/2013/02/22/expanding-public-access-results-

federally-funded-research

http://researchsharing.sparcopen.org/compare?ids=6&compare=data

https://dmptool.org

https://osf.io/

https://figshare.com

https://dataverse.harvard.edu/

https://www.icpsr.umich.edu

https://www.openicpsr.org

https://qdr.syr.edu