

Resource Summary Report

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DataONE

RRID:SCR_003999

Type: Tool

Proper Citation

DataONE (RRID:SCR_003999)

Resource Information

URL: <https://www.dataone.org/>

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Description: A distributed framework and cyberinfrastructure for open, persistent, and secure access to Earth observational data. It ensures the preservation, access, use and reuse of multi-scale, multi-discipline, and multi-national science data via three primary cyberinfrastructure elements and a broad education and outreach program. The DataONE Investigator Toolkit is a collection of software tools for finding, using, and contributing data in DataONE. DataONE currently hosts three Coordinating Nodes that provide network-wide services to enhance interoperability of the Member Nodes and support indexing and replication services. Coordinating Nodes provide a replicated catalog of Member Node holdings and make it easy for scientists to discover data wherever they reside, also enabling data repositories to make their data and services more broadly available to the international community. DataONE Coordinating Nodes are located at the University of New Mexico, the University of California Santa Barbara and at the University of Tennessee (in collaboration with Oak Ridge National Laboratory). DataONE comprises a distributed network of data centers, science networks or organizations. These organizations can expose their data within the DataONE network through the implementation of the DataONE Member Node service interface. In addition to scientific data, Member Nodes can provide computing resources, or services such as data replication, to the DataONE community.

Abbreviations: DataONE

Synonyms: Data Observation Network for Earth

Resource Type: catalog, data or information resource, data repository, database, portal, service resource, software resource, storage service resource

Keywords: earth, environment, data sharing, cyberinfrastructure, earth observational data, data management, data set, FASEB list

Funding: NSF 0830944;
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Availability: Acknowledgement requested

Resource Name: DataONE

Resource ID: SCR_003999

Alternate IDs: DOI:10.25504/FAIRsharing.yyf78h, nlx_158410, DOI:10.17616/R3101G, r3d100010478, DOI:10.2586

Alternate URLs: <https://doi.org/10.17616/R3101G>, <https://doi.org/10.17616/r3101g>, <https://doi.org/10.2586/>, <https://dx.doi.org/10.2586/>, <https://fairsharing.org/10.25504/FAIRsharing.yyf78h>, <https://doi.org/10.17616/R3TG83>

Record Creation Time: 20220129T080222+0000

Record Last Update: 20260912T200009+0000

Ratings and Alerts

No rating or validation information has been found for DataONE.

No alerts have been found for DataONE.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 45 mentions in open access literature.

Listed below are recent publications. The full list is available at [Kravitz](#) .

Schmidt C, et al. (2026) Variability, Drivers, and Utility of Genetic Diversity-Area Relationships in Terrestrial Vertebrates. Ecology letters, 29(1), e70306.

Karachaliou E, et al. (2025) Urbanisation Is Associated With Reduced Genetic Diversity in Marine Fish Populations. Molecular ecology, 34(7), e17711.

Smith JG, et al. (2025) Conservation benefits of a large marine protected area network that spans multiple ecosystems. Conservation biology : the journal of the Society for Conservation Biology, 39(4), e14435.

Ellsäßer FJ, et al. (2025) Towards a FAIR metadata framework for drone and uncrewed aerial vehicle data. Scientific data, 13(1), 57.

Porter JH, et al. (2025) Using a units ontology to annotate pre-existing metadata. Scientific data, 12(1), 304.

Ma H, et al. (2025) Temporal trends and disparities in stroke and diabetes mellitus comorbidity-related mortality from 1999 to 2023. *Scientific reports*, 15(1), 43967.

Berner LT, et al. (2024) The Arctic Plant Aboveground Biomass Synthesis Dataset. *Scientific data*, 11(1), 305.

Marraffini ML, et al. (2024) Evaluating the influence of marine protected areas on surf zone fish. *Conservation biology : the journal of the Society for Conservation Biology*, 38(6), e14296.

Yáñez-Muñoz MH, et al. (2024) The Tropical Andes Biodiversity Hotspot: A Comprehensive Dataset for the Mira-Mataje Binational Basins. *Scientific data*, 11(1), 782.

Mortensen HM, et al. (2024) Translating nanoEHS data using EPA NaKnowBase and the resource description framework. *F1000Research*, 13, 169.

Bernard C, et al. (2023) MOSAIC - A Unified Trait Database to Complement Structured Population Models. *Scientific data*, 10(1), 335.

Sterner B, et al. (2023) Unified and pluralistic ideals for data sharing and reuse in biodiversity. *Database : the journal of biological databases and curation*, 2023.

Waterhouse RM, et al. (2023) The ELIXIR Biodiversity Community: Understanding short- and long-term changes in biodiversity. *F1000Research*, 12.

Mitchell SN, et al. (2022) FAIR data pipeline: provenance-driven data management for traceable scientific workflows. *Philosophical transactions. Series A, Mathematical, physical, and engineering sciences*, 380(2233), 20210300.

Schmidt C, et al. (2022) Systemic racism alters wildlife genetic diversity. *Proceedings of the National Academy of Sciences of the United States of America*, 119(43), e2102860119.

Fer I, et al. (2021) Beyond ecosystem modeling: A roadmap to community cyberinfrastructure for ecological data-model integration. *Global change biology*, 27(1), 13.

Freedman R, et al. (2021) Species-specific thermal classification schemes can improve climate related marine resource decisions. *PloS one*, 16(4), e0250792.

Kim S, et al. (2021) Practical considerations for a library's research data management services: the case of the National Institutes of Health Library. *Journal of the Medical Library Association : JMLA*, 109(3), 450.

Beck MW, et al. (2020) The importance of open science for biological assessment of aquatic environments. *PeerJ*, 8, e9539.

Bond-Lamberty B, et al. (2020) COSORE: A community database for continuous soil respiration and other soil-atmosphere greenhouse gas flux data. *Global change biology*, 26(12), 7268.