



DataONE

Overview of the DataONE UI and Services

Amber Budden
Dir Community Engagement & Outreach
DataNOE

DataONE

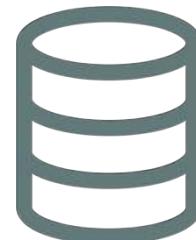
Mission

**Providing universal access to data
about life on earth and the environment
that sustains it**

**Building
Community**



**Sustainable
Cyberinfrastructure**

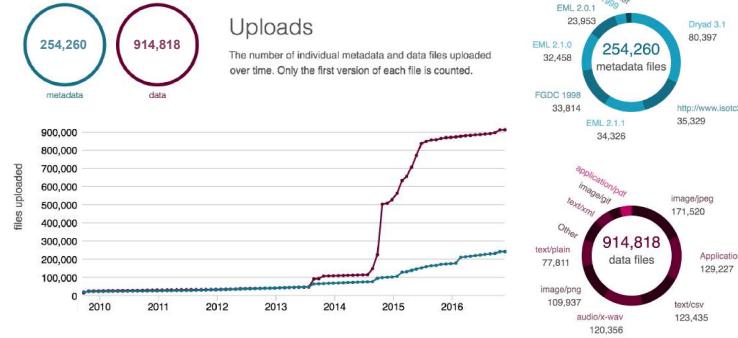


**Tools and
Services**



Four Key Needs

Data



Precise Discovery and Recall

Attribute Information

Name: litter

Label: litter

Definition: Help others find this dataset by adding semantic tags

Storage Type: soil

Measurement Type: Soil Layer Top Depth

Variables: site, wetdry, post, litter, dell surv, cats, Formica, total ants

Tags: soil, soil litter, soil loss, soil order

Add tag to litter attributes

Help others find this dataset by adding semantic tags

soil

soil litter

soil loss

soil order

Accuracy Assessment

Coverage



Practical Tools

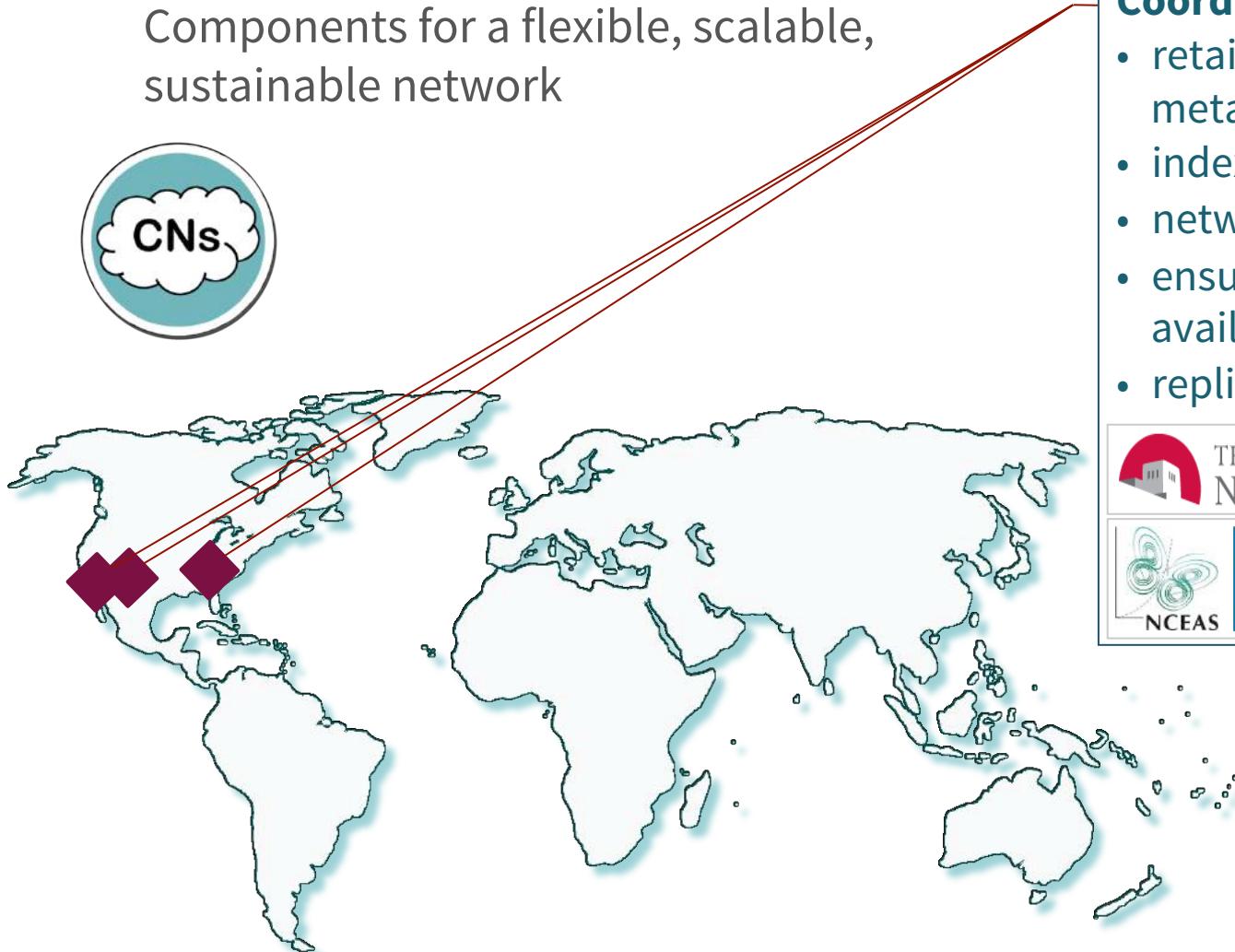


Empowered Community

Coordinating Nodes

Federation-wide services

Components for a flexible, scalable, sustainable network



Coordinating Nodes

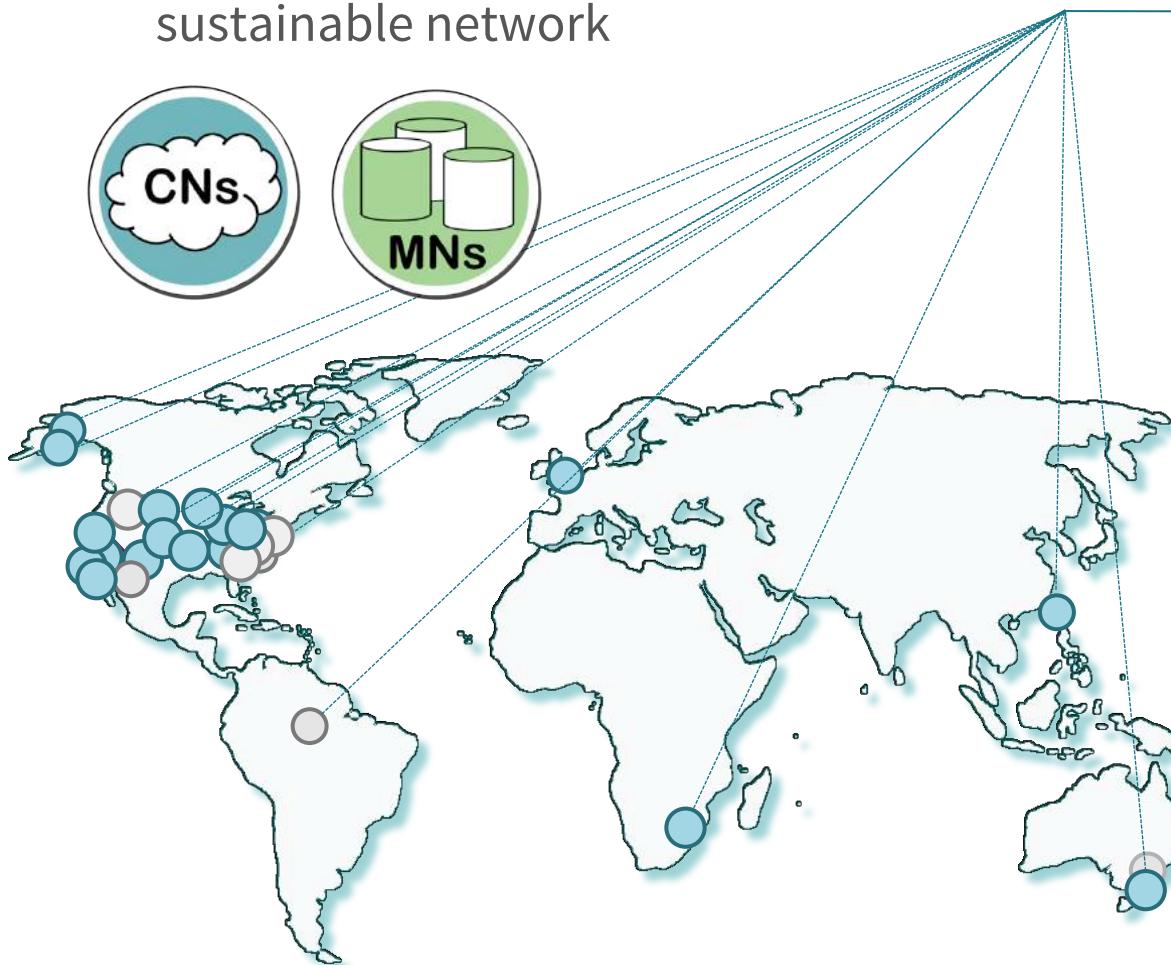
- retain complete metadata catalog
- indexing for search
- network-wide services
- ensure content availability (preservation)
- replication services



Federation of Member Nodes

Data Repositories

Components for a flexible, scalable, sustainable network



Coordinating Nodes

Member Nodes

- diverse institutions
- serve local community
- provide resources for managing their data
- retain copies of data



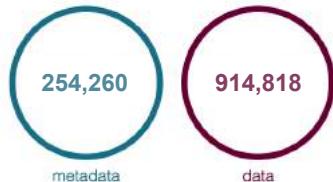
www.dataone.org/member-nodes

36 DataONE Member Node Repositories



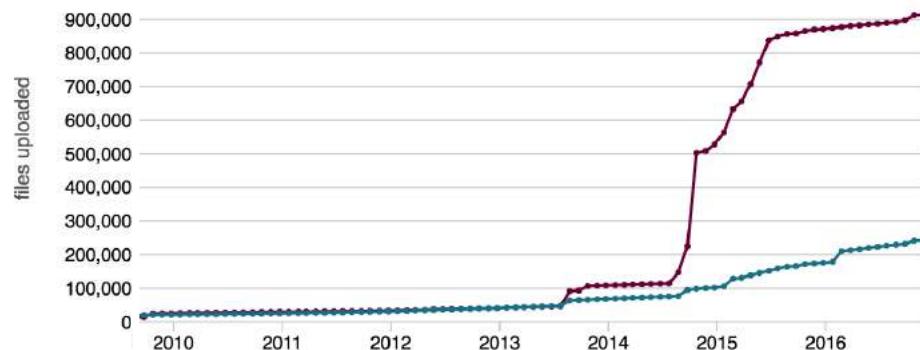
www.dataone.org/current-member-nodes

Data Holdings



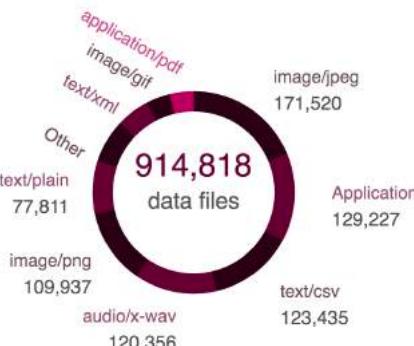
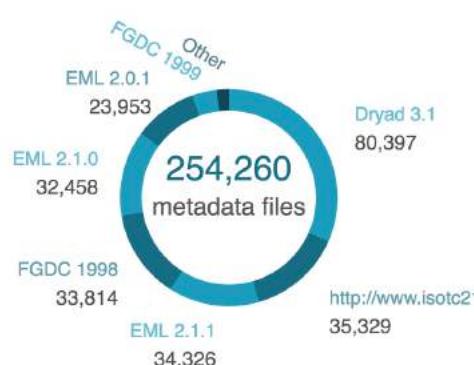
Uploads

The number of individual metadata and data files uploaded over time. Only the first version of each file is counted.

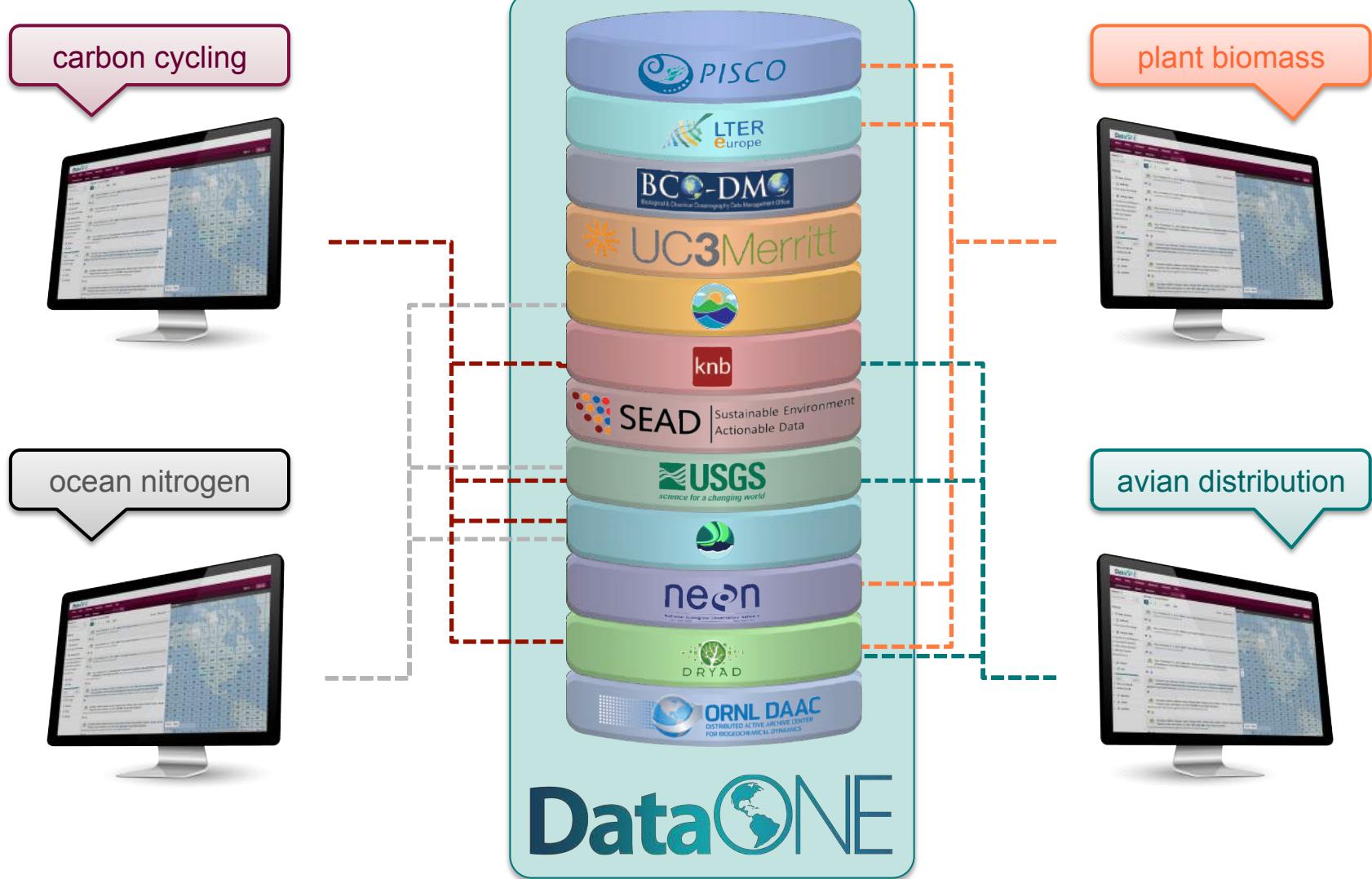


File formats

We breakdown the types of metadata and data files uploaded. Only the most recent version of each file is included.



Integrated Data Discovery & Access



Data Discovery Interface



About News Participate Resources Education Data

DATAONE SEARCH: Search Summary Jump to: DOI or ID

Search

Search phrase

Filter by:

Data attribute

Data files

Member Node

Creator

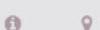
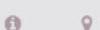
Year

Identifier

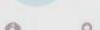
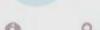
Taxon

Location

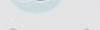
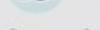
John Toole, Richard Krishfield, K. Oceanographic profile observatory, Oceanographic Institution (WHOI) 09-09 to 2009-10-24 (NCEI Accession 01) (F14E948A-22B7-4768-A3AF-272B51A584FB)



Kathleen M Stafford. 2016. Pass January 2015. Arctic Data Center



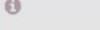
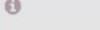
Kathleen M Stafford. 2016. Pass December 2014. Arctic Data Center



SEAD Andy Wickert, Myrow, Paul M., K. Perron. 2016. Wave Ripple Time-Lapse 1. Ba19c787-3dc9-47ac-9559-489d5440a75a.



Franssen, Susanne U., Nolte, Viola. Dmel_haplotype.fasta_F67. DRYAD. http://dx.doi.org/10.5060/dryad.403b2.23.2?view=



Franssen, Susanne U., Nolte, Viola. Dmel_haplotype.fasta_base. DRYAD. http://dx.doi.org/10.5060/dryad.403b2.23.3?view=



DataONE is a collaboration among many partner organizations. National Science Foundation under Grant Numbers 0939918 and 1448981 reflect the views of the National Science Foundation.

Search

Search phrase

My Search

Creator: Jones

Filter by:

Data attribute

Data files

Member Node

Creator

Name

Year

Identifier

Taxon

Location

search.dataone.org

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Hide Map »

5335	59	14	6	5	9	8	11	21	16
2185	191	4	12	2	10	5	10	56	33
597	312	78	6	5	10	3	6	7	67
125	164	99	7	263	91	6	10	23	134
44	88	1652	589	301	4923	1434	78	64	152
40	36	9130	4510	3607	390	2875	7708	254	155
39	75	427	38575	4722	1846	2585	4916	426	135
34	120	187	3916	6280	784	4147	760	173	57
84	160	19	52	56	298	7221	842	75	63
281	19	11	29	66	87	116	271	1230	26
9	19	12	17	45	66	108	57	82	44
17	24	17	23	32	23	114	51	109	39
10	47	21	8	10	14	56	31	365	122

operative Agreement. Acknowledgement: This material is based upon work supported by the National Science Foundation under Grant Numbers 0939918 and 1448981. Any recommendations expressed in this material are those of the author(s) and do not necessarily reflect the views of the National Science Foundation.

Map data ©2016 Google, INEGI + 1000 km

Terms of Use

Dat

Metadata Display and Metrics

[Back to search](#) | Search / Metadata

Benjamin Halpern, Melanie Frazier, John Potapenko, Kenneth Casey, Kellee Koenig, et al. 2015. Cumulative human impacts: raw stressor data (2008 and 2013). KNB Data Repository. doi:10.5063/F1S180FS.



[Copy Citation](#)

Files in this dataset Package: urn:uuid:57d4a0c5-cffe-4b57-b863-faec725153fa					Download all	
	Name	File type	Size	Downloads		
	Metadata: Cumulative human impacts: raw stressor data (2008 and 2013)	EML v2.1.1	30 KB	4265 views	Download	
	raw_2008_artisanal_fishing_mol.zip	More info	ZIP file	46 MB	404 downloads	Download
	raw_2008_demersal_destructive_fishing_mol.zip	More info	ZIP file	594 MB	374 downloads	Download
	raw_2008_demersal_destructive_fishing_mol.zip	More info	ZIP file	203 MB	314 downloads	Download
Show 34 more items in this data set						



General

Identifier	raw_2013_uv_mol_20150714095238
------------	--------------------------------

Abstract

This is a portion of the data used to calculate 2008 and 2013 cumulative human impacts in: Halpern et al. 2015. Spatial and temporal changes in cumulative human impacts on the world's ocean. Seven data packages are available for this project: (1) supplementary data (habitat data and other files); (2) raw stressor data (2008 and 2013); (3) stressor data rescaled by one time period (2008 and 2013, scaled from 0-1); (4) stressor data rescaled by two time periods (2008 and 2013, scaled from 0-1); (5) pressure and cumulative impacts data (2013, all pressures); (6) pressure and cumulative impacts data (2008 and 2013, subset of pressures updated for both time periods); (7) change in pressures and cumulative impact (2008 to 2013). All raster files are .tif format and coordinate reference system is mollweide wgs84. Here is an overview of the calculations: Raw stressor data -> rescaled stressor data (values between 0-1) -> pressure data (stressor data after adjusting for habitat/pressure vulnerability) -> cumulative impact (sum of pressure data) -> difference between 2008 and 2013 pressure and cumulative impact data. This data package includes 2008 and 2013 raw stressor data. The 2008 data includes 18 raster files (preceded by raw_2008.). The 2013 data includes 19 raster files (preceded by raw_2013.). There is no sea level rise data for 2008.



KNB Data Repository



The Knowledge Network for Biocomplexity (KNB) is a national network intended to facilitate ecological and environmental research on biocomplexity.

4 years, 7 months

DataONE
Member Node
since 2012

4,540 contributions

2,503,786 downloads

Datasets 1 to 5 of 2,744

1 2 3 ... 534 Next

Sort by Most recent

knb Gregory Goldsmith. 2016. **Data from: Plant-O-Matic: A dynamic and mobile guide to all plants of the Americas.** KNB Data Repository. knb.909.8.



knb Environmental Laboratory, US Army Engineer Research & Development Center, and Bertrand Lemasson. 2016. **A sensory-driven tradeoff between coordinated motion in social prey and a predator's visual confusion.** KNB Data Repository. knb.865.15.



knb Environmental Laboratory, US Army Engineer Research & Development Center, and Bertrand Lemasson. 2016. **A sensory-driven tradeoff between coordinated motion in social prey and a predator's visual confusion.** KNB Data Repository. knb.865.11.



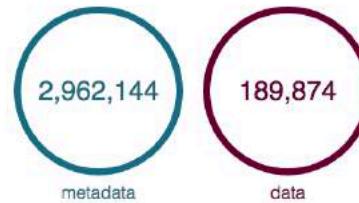
knb Débora Najara Ferreira. 2016. **Polyembryony in Carapa surinamensis Data.** KNB Data Repository. debora_naj.10.1.



knb 2015. **Does Presence of Parasites Contribute to Virginia Bee Decline?.** KNB Data Repository. Blandy.246.3.

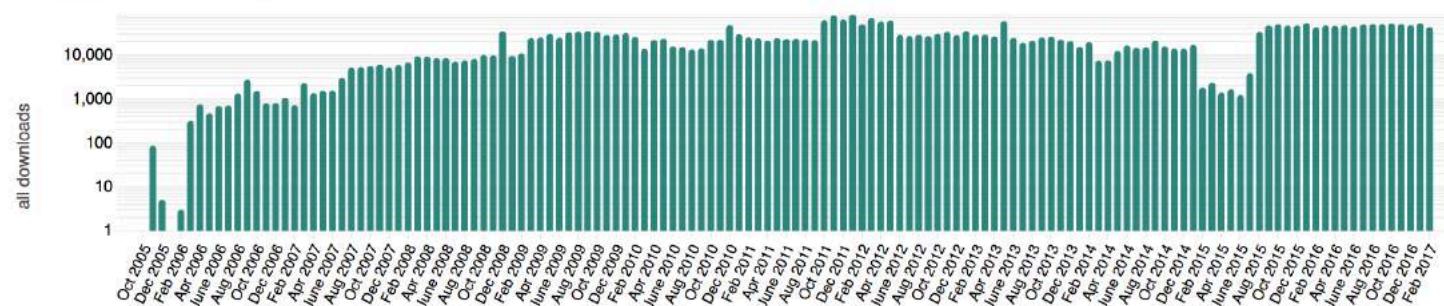


1 2 3 ... 534 Next



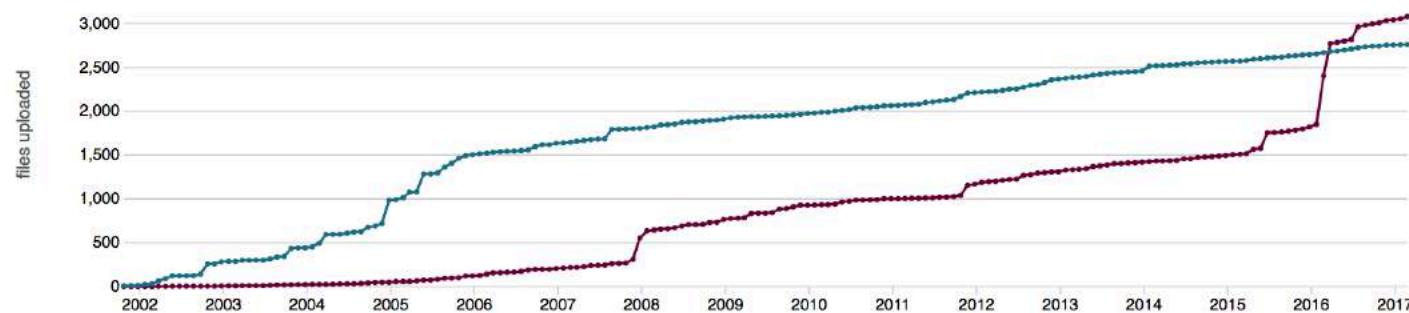
Downloads

The number of individual metadata and data files downloaded over time. These download counts are partially **COUNTER** compliant, meaning that downloads from some Internet robots and repeat downloads within a certain time window are excluded.



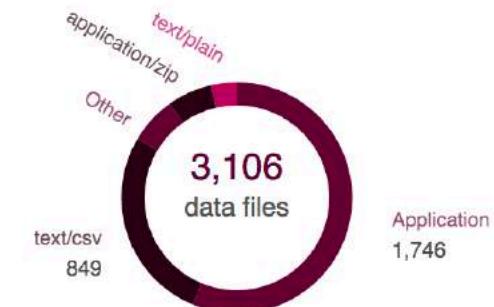
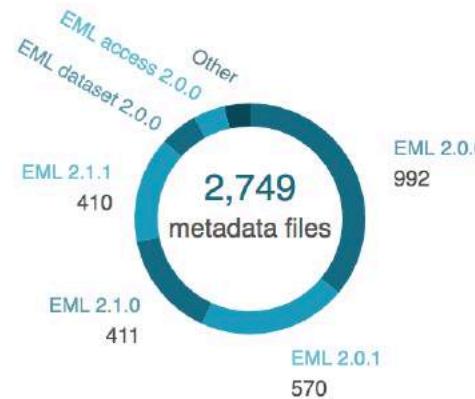
Uploads

The number of individual metadata and data files uploaded over time. Only the most recent version of each file is counted.



File formats

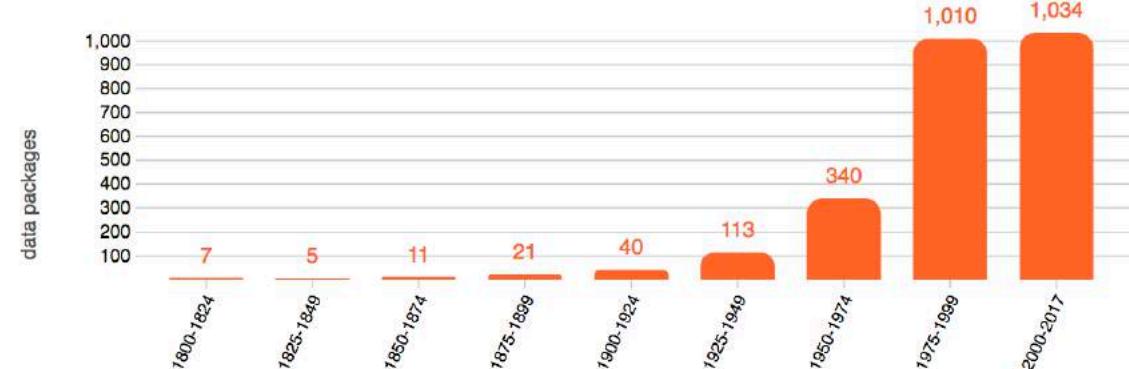
We breakdown the types of metadata and data files uploaded. Only the most recent version of each file is included.



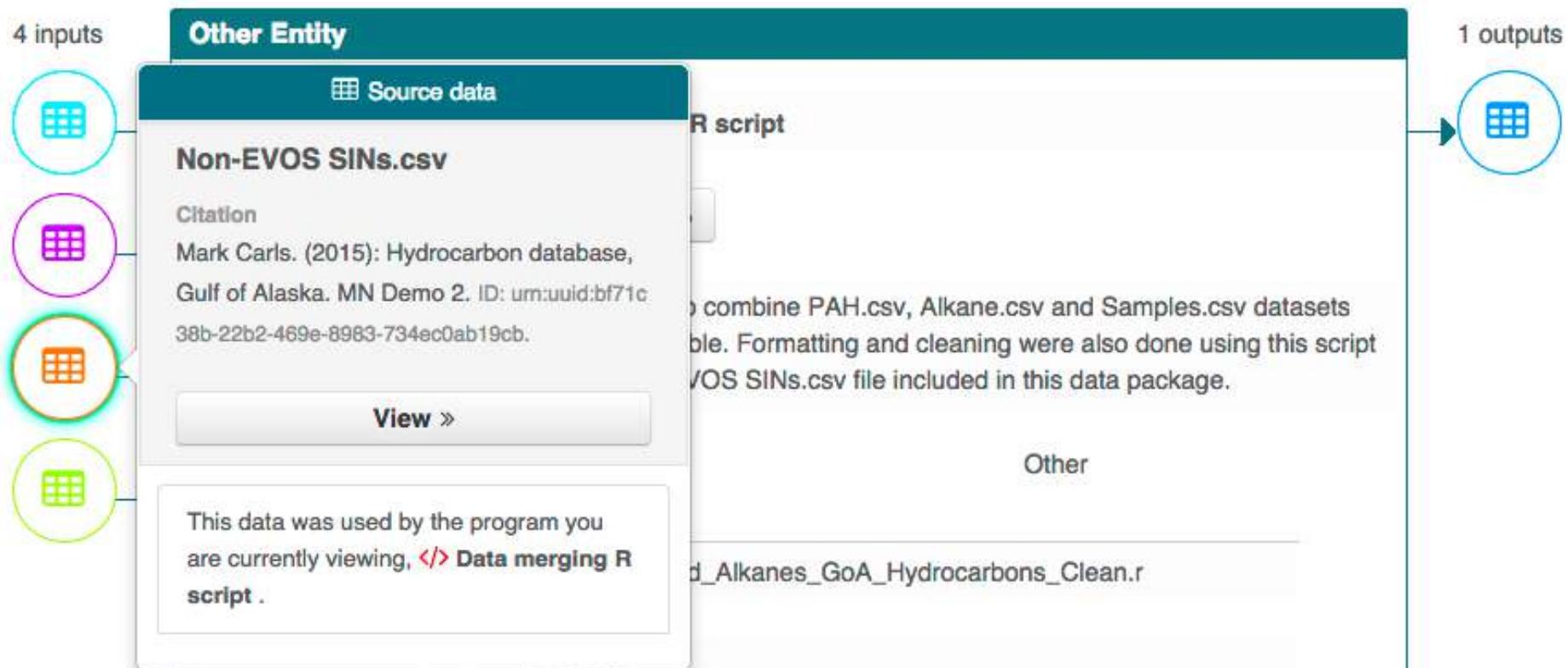
Time period of data

1800 - 2017

The years in which data was collected, regardless of upload date. Only the most recent version of the data package is counted.



Promote Reproducibility Using Provenance Tracking



Externally Defined Format

Format Name

text/plain

Online Distribution Info

<ecogrid://knb/urn:uuid:7e47671f-5d1e-475a-a633-415c8846d04c>

Promote Reproducibility Using Provenance Tracking

Size 3005 byte

Externally Defined Format Format Name text/plain

</> Source program

Locations map R script

Citation

Mark Carls. (2015): Hydrocarbon database, Gulf of Alaska. MN Demo 2. ID: urn:uuid:bf71c38b-22b2-469e-8983-734ec0ab19cb.

View >

2 sources

</>

This program generated the image you are currently viewing, [Map of sampling locations in the Northern Gulf of Alaska](#) and [Map of sampling locations in the Gulf of Alaska](#).

This program used [Total_Aromatic_Alkanes_PWS.csv](#).

urn:uuid:5d1ca84c-d624-4dab-ab77-8db0c6558268

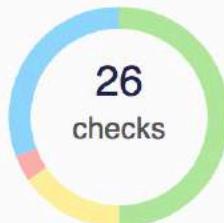
locations of HCDB data in Northern GOA

Entity Name Map of sampling locations in the Northern Gulf of Alaska

Metadata Quality Report

Kathleen M Stafford. 2017. Passive acoustic data from A3 in the Bering Strait 2014-2015. NSF Arctic Data Center. urn:uuid:dc4b2a33-a83d-4232-85c8-9dbb5e7c2516.

After running your metadata against our standard set of metadata, data, and congruency checks, we have found the following potential issues. Please assist us in improving the discoverability and reusability of your research data by addressing the issues below.



Identification: 100% complete

Discovery: 75% complete

Interpretation: 100% complete

- ▶ Passed 13 checks out of 18. Good job!
- ▶ Warning for 4 checks. Please review these warnings.
- ▶ Failed 1 check. Please correct these issues.
- ▶ 8 informational checks. These may include skips, errors and failures.

▼ Passed 13 checks out of 18. Good job!

<input checked="" type="checkbox"/>	At least one award number was found.	?	identification	REQUIRED	SUCCESS
<input checked="" type="checkbox"/>	All award numbers were found in the NSF award database.	?	identification	OPTIONAL	SUCCESS
<input checked="" type="checkbox"/>	One creator is present.	?	identification	REQUIRED	SUCCESS
<input checked="" type="checkbox"/>	One contact is present.	?	identification	REQUIRED	SUCCESS
<input checked="" type="checkbox"/>	The number of words in the dataset's title is sufficient because it is between 7 and 20 words long.	?	identification	REQUIRED	SUCCESS
<input checked="" type="checkbox"/>	An identifier is present.	?	identification	REQUIRED	SUCCESS
<input checked="" type="checkbox"/>	The document is licensed with a Creative Commons CC-BY license.	?	identification	REQUIRED	SUCCESS
<input checked="" type="checkbox"/>	A description of this dataset's temporal coverage is present.	?	discovery	REQUIRED	SUCCESS
<input checked="" type="checkbox"/>	A textual description of the geographic coverage of this dataset is present.	?	discovery	REQUIRED	SUCCESS
<input checked="" type="checkbox"/>	A set of bounding coordinates describing the geographic coverage of this dataset is present.	?	discovery	REQUIRED	SUCCESS
<input checked="" type="checkbox"/>	A publication date is present.	?	identification	REQUIRED	SUCCESS

▶ Passed 13 checks out of 18. Good job!

▼ Warning for 4 checks. Please review these warnings.

! The identifier 'urn:uuid:dc4b2a33-a83d-4232-85c8-9dbb5e7c2516' does not look like a DOI. Note that a DOI will be assigned to this dataset when it has been reviewed and approved.

?

Identification

OPTIONAL

FAILURE

! A sampling description is not present in the methods section.

?

interpretation

OPTIONAL

FAILURE

! No data descriptions are present.

?

Interpretation

OPTIONAL

FAILURE

! A sampling study extent description is not present in the methods section.

?

Interpretation

OPTIONAL

FAILURE

▶ Failed 1 check. Please correct these issues.

▶ 8 informational checks. These may include skips, errors and failures.

User Authentication



search.dataone.org

About News Participate Resources Education Data

DATAONE SEARCH: Search Summary

Jump to: DOI or ID Go

Sign in or Sign up

Search

Filter by:

Data attribute

Data files

Member Node

Creator

Year

Identifier

Taxon

Location

John Toole, Richard Krishfield, Krishfield, R., Toole, J., and Timmermans, M.-L.. 2016. **Oceanographic profile observations collected from station ITP-11 by Woods Hole Oceanographic Institution (WHOI) in the Arctic Ocean and Beaufort Sea from 2007-09 to 2009-10-24 (NCEI Accession 0157135)**. NOAA NCEI Oceanographic Data Archive. {F14E948A-22B7-4768-A3AF-272B51A584FB}.

Kathleen M Stafford. 2016. **Passive acoustic data from A3 in the Bering Strait for January 2015**. Arctic Data Center. doi:10.18739/A28H3Z.

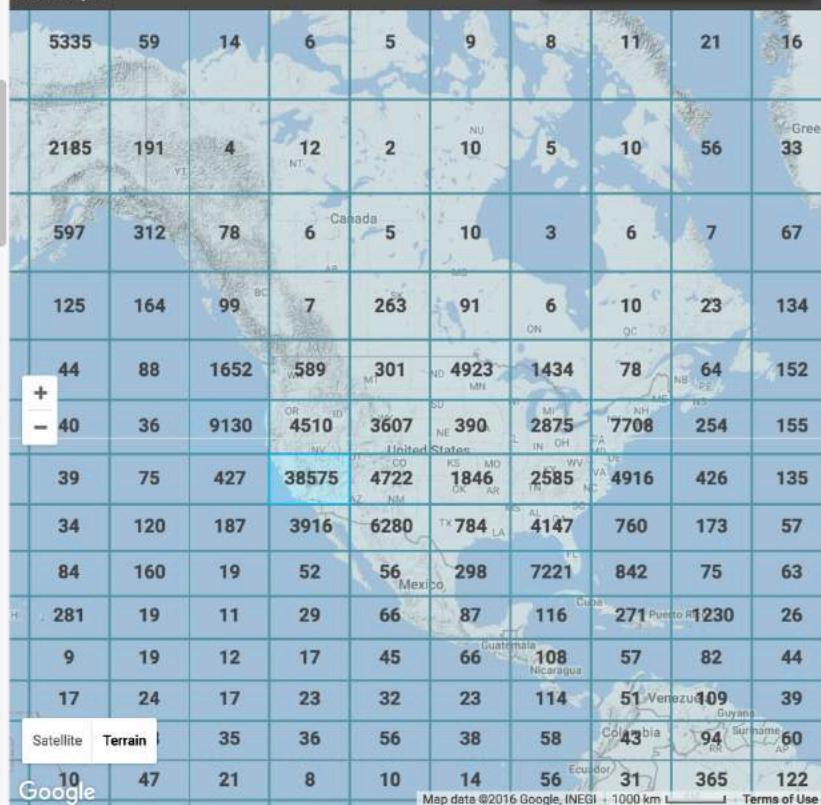
Kathleen M Stafford. 2016. **Passive acoustic data from A3 in the Bering Strait for December 2014**. Arctic Data Center. doi:10.18739/A2D95W.

SEAD Andy Wickert, Myrow, Paul M., Koss, Abigail R., Huppert, Kimberly L., and J. Taylor Perron. 2016. **Wave Ripple Time-Lapse Experiments**. SEAD Virtual Archive. seadva.J.TaylorPerron-Ba19c787-3dc9-47ac-9559-489d5440a75a.

Franssen, Susanne U., Nolte, Viola, Tobler, Ray, and Schlötterer, Christian. 2016. **Dmel_haplotype_fasta_F67**. Dryad Digital Repository. http://dx.doi.org/10.5061/dryad.403b2.2/3.2?ver=2016-12-07T16:26:07Z&id=5440a75a.

Franssen, Susanne U., Nolte, Viola, Tobler, Ray, and Schlötterer, Christian. 2016. **Dmel_haplotype_fasta_base**. Dryad Digital Repository.

Hide Map »



DataONE is a collaboration among many partner organizations, and is funded by the US National Science Foundation (NSF) under a Cooperative Agreement. Acknowledgement: This material is based upon work supported by the National Science Foundation under Grant Numbers 0830944 and 1430508. Disclaimer: Any opinions, findings, and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the views of the National Science Foundation. (MetacatJL v1.13.3.1130)

Data

Datasets 1 to 25 of 297,552

[Hide Map »](#)

1

2

3

...

11,903

Next

Sort by

Most recent

Ma,
and

parthenogene

<http://dx.doi.org/>Ma,
and

parthenogene

<http://dx.doi.org/>Rich
repo
ArcticMeaden, Sean and Koskella, Britt. 2017. **Assay and passage data, SNP calls..** Dryad Digital Repository.<http://dx.doi.org/10.5061/dryad.v444t/2?ver=2017-03-13T13:15:45.624-04:00>

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21	12	31	70
21	13	18	47
Satellite	Terrain	23	33

User Profiles



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DATAONE SEARCH: Search Summary

Jump to: DOI or ID Go

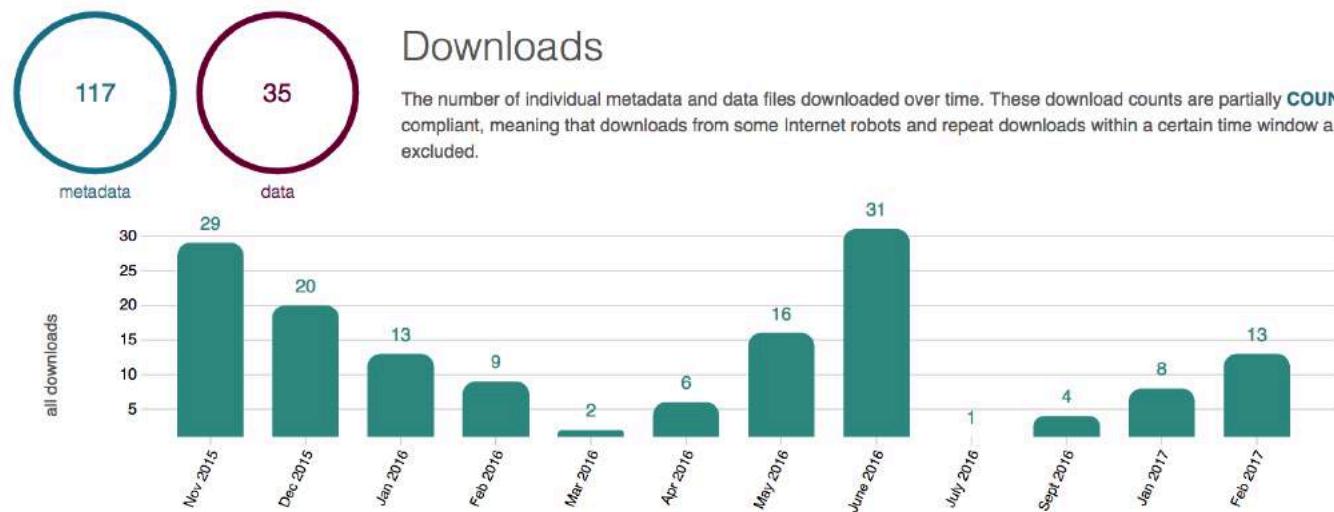
Sign in or Sign up

Timothy Assal

Username: assal

Datasets 1 to 3 of 3

Sort by Most recent ▾



Data Citations

Making Data Count



About News Participate Resources Education Data

DATAONE SEARCH: Search Summary Jump to: DOI or ID Go Sign in or Sign up

Timothy Assal

Username: assal

Datasets 1 to 3 of 3

Sort by Most recent ▾

 United States Geological Survey and Timothy Assal. 2015. Data from: Mapping forest

6 " Citations



Works that cited Timothy Assal's datasets

Assal T., Anderson, P. and Sibold J. 2016. Spatial and temporal trends of drought effects in a heterogeneous semi-arid forest. *Forest Ecology and Management*. doi:10.1016/j.foreco.2016.01.017

Tim Assal. 2016. Documenting Spatial and Temporal Trends of Drought. NASA.gov

Smith, Joe. 2016. Sed ut perspiciatis unde omnis iste natus error sit voluptatem accusantium doloremque audantium. *Ecology*. doi:1234/123JK

Douglas et al. 2016. At vero eos et accusamus et iusto odio dignissimos ducimus qui blanditiis praesentium voluptatum deleniti atque corrupti. *Nature*. doi:1J78/397HF9

▶ See 2 more

Access Member Data Services

Data Services Registration

Datasets 1 to 25 of 718

1. Search for “AVHRR”

2016. Output fields from the NOAA Atlantic Real-Time Ocean Forecast System (RTOFS) for 2016-10-01 to 2016-10-31 (NCEI Accession 0156901)

Name

Metadata: Output fields from the NOAA Atlantic Real-Time Ocean Forecast System (RTOFS) for 2016-10-01 to 2016-10-31 (NCEI Accession 0156901)

Downloads

Download

Alternate Data Access

Name	Description
Descriptive Information	Navigate directly to the URL for descriptive information.
Descriptive Information	Navigate directly to the URL for descriptive information.
FTP	Navigate directly to the URL for FTP access.
HTTP	Navigate directly to the URL for HTTP access.
OPeNDAP	Navigate directly to the URL for OPeNDAP access.
THREDDS	Navigate directly to the URL for THREDDS access.

48A7-9

Archive

USGS Sensing Bay Unit

Great Beaufort

USGS P. Soupy Dalyander. 2014. Recurrence interval of sediment select points in the Middle Atlantic Bight for May, 2010 - May, 2014 (MAB_mobile_freq_v1_1.SHP, Geographic, WGS 84). USGS Catalog. 16389dab-3842-4ce4-8cd2-18ebd7259009.

1 2 3 ... 29

2. Service type and endpoint

Name

Metadata: Output fields from the NOAA Atlantic Real-Time Ocean Forecast System (RTOFS) for 2016-10-01 to 2016-10-31 (NCEI Accession 0156901)

Downloads

Download

Environmental Data Connector

Catalog URL: http://data.noaa.gov/thredds/catalog/ghrsst/L2P/AVHRR_SST_METOP_B/OSISAF/catalog.xml

Direct Access URL: <http://coastwatch.noaa.gov/erddap>

Sensor Obs Service: <http://sdf.ndbc.noaa.gov>

ERDDAP Server: <http://coastwatch.noaa.gov/erddap>

3. Access by client tools

OSISAF

2016

166

165

164

163

162

161

160

159

158

157

156

20160604235803-OSISAF-L2P_GHRSST-SSTsubskin-AVHRR_SST_METOP_B-sstmgr_metop01_20160604_235503-v02.0-fv01.0.nc

Dataset:

156/20160604235503-OSISAF-L2P_GHRSST-SSTsubskin-AVHRR_SST_METOP_B-sstmgr_metop01_20160604_235503-v02.0-fv01.0.nc

Data size: 4.962 Mbytes

ID: ghrsst/L2P/AVHRR_SST_METOP_B/OSISAF/2016/156/20160604235503-OSISAF-L2P_GHRSST-SSTsubskin-AVHRR_SST_N

Access:

- OPENDAP: http://data.noaa.gov/thredds/dodsC/ghrst/L2P/AVHRR_SST_METOP_B/OSISAF/2016/156/20160604235503-OSISAF-L2P_GHRSST-SSTsubskin-AVHRR_SST_N
- HTTPServer: http://data.noaa.gov/thredds/fileServer/ghrst/L2P/AVHRR_SST_METOP_B/OSISAF/2016/156/20160604235503-OSISAF-L2P_GHRSST-SSTsubskin-AVHRR_SST_N
- WCS: http://data.noaa.gov/thredds/wcs/ghrst/L2P/AVHRR_SST_METOP_B/OSISAF/2016/156/20160604235503-OSISAF-L2P_GHRSST-SSTsubskin-AVHRR_SST_N
- WMS: http://data.noaa.gov/thredds/wms/ghrst/L2P/AVHRR_SST_METOP_B/OSISAF/2016/156/20160604235503-OSISAF-L2P_GHRSST-SSTsubskin-AVHRR_SST_N
- NCML: http://data.noaa.gov/thredds/ncml/ghrst/L2P/AVHRR_SST_METOP_B/OSISAF/2016/156/20160604235503-OSISAF-L2P_GHRSST-SSTsubskin-AVHRR_SST_N
- UDDC: http://data.noaa.gov/thredds/uddc/ghrst/L2P/AVHRR_SST_METOP_B/OSISAF/2016/156/20160604235503-OSISAF-L2P_GHRSST-SSTsubskin-AVHRR_SST_N
- ISO: http://data.noaa.gov/thredds/safe/iso/ghrst/L2P/AVHRR_SST_METOP_B/OSISAF/2016/156/20160604235503-OSISAF-L2P_GHRSST-SSTsubskin-AVHRR_SST_N

Subset & Process

Connected...

http://data.noaa.gov/thredds/catalog/ghrsst/L2P/AVHRR_SST_METOP_B/OSISAF/catalog.xml

asa

Manual Semantic Annotation

Online Distribution Info cpwang.13.14

Text Format Attribute Orientation

Simple Text

Field Delimiter

Attribute Information

Variables
Proben_MK
Proben_Tiefe
Unfumigierte P...
Unfumigierte P...
ug-C/ml in Extr...
ug-N/ml in E...
ug-NO3-N/ml...
ug-NH4-N/ml...
ug-C/g Tr.Bo...
ug-N/g Tr.Bo...

Name: Soil Carbon Concentration

Synonyms:

Definition: numerator is carbon, denominator is a volume or weight of soil.

Concept URI:
http://purl.dataone.org/odo/ECSO_00000576

Added by Benjamin Leinfelder Wed Sep 28 2016

Label: Soil Carbon Concentration

Definition: ug-C/g Tr.Boden

Storage Type:

Measurement Type: ratio

+ Add annotation

Levels of Implementation (Tiers)

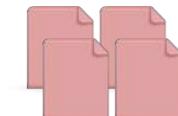
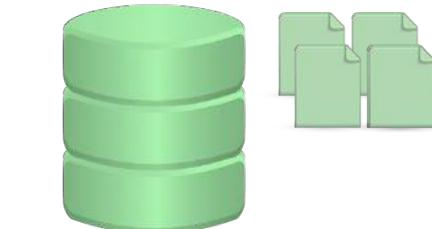
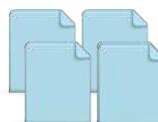
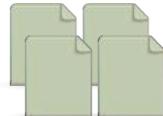
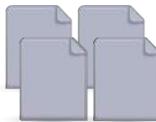
Tier 1: Read Only access

Tier 2: Access Control (MN Authentication)

Tier 3: Read and Write

Tier 2: Replication

Solutions for Repositories: Data and metadata replication



User eXperience Testing

UX includes:

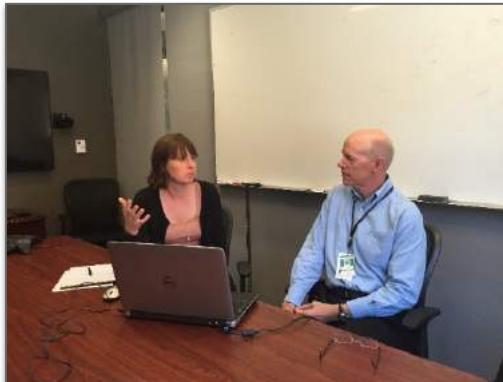
- Heuristic evaluation
- Usability study
- Online Survey

Usability studies include:

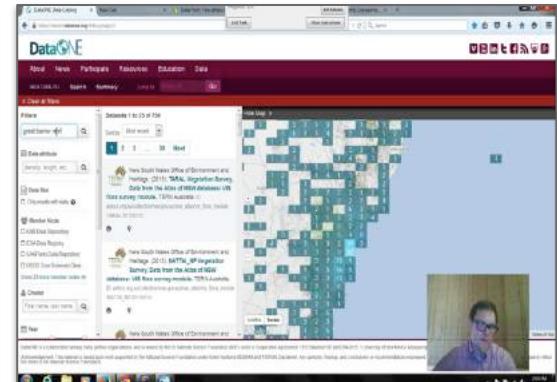
- Wireframes, mockups, prototypes
- Eye-tracking



UX in the UXL



UX at ORNL



UX at DUG

DataONE Users Group

- A self-organizing, honest, non-biased form of feedback to the DataONE leadership
- A peer teaching opportunity on how best to use and integrate the DataONE products
- An opportunity for DataONE to connect with a broad community through a network of advocates





dataone.org

