DataCite Canada

Cyndie Found, CISTI

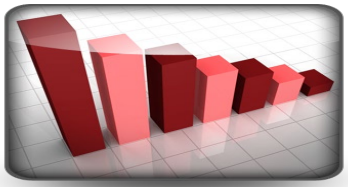
2012-10-25

Overview

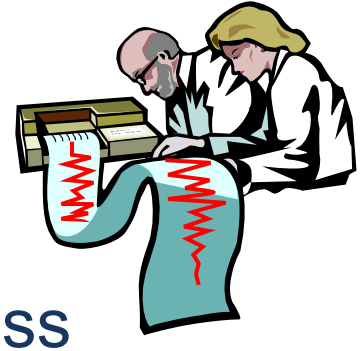
- **Background** : Who is CISTI, Definition of Data
- **Research Data Management**(RDM) – Benefits, Challenges
- **Addressing the RDM challenges**
- **DataCite Canada**
  - What is DataCite International?
  - What is DataCite Canada?
  - How DataCite Canada works
    - Allocator Responsibilities
    - Client Responsibilities
  - DataCite Services Overview
- **Questions**

CISTI: Who We Are

- Library of the NRC and Canada's national science library
- Involved in research data initiatives
  - Canadian National Committee for CODATA
  - Research Data Canada
    http://rds-sdr.cisti-icist.nrc-cnrc.gc.ca/docs/data_summit-sommet_donnees/Data_Summit_Report.pdf
  - DataCite Canada: Canada's digital object identifier(DOI) allocation agent



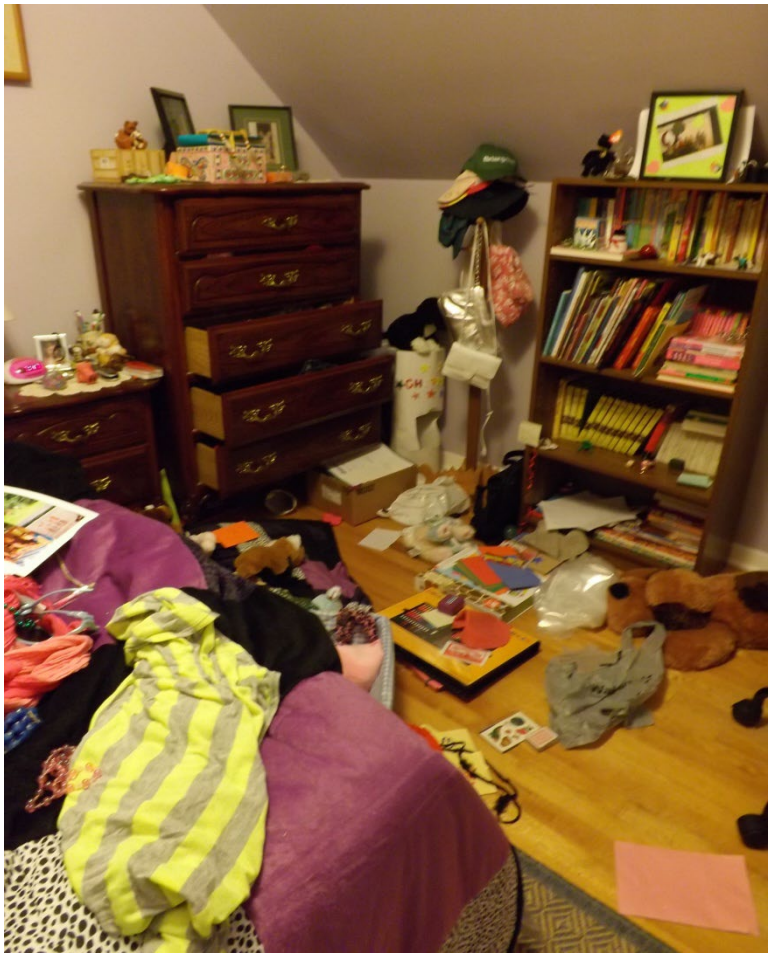
Data: a Definition



"'Data' means recorded information, regardless of the form or media on which it may be recorded, and includes writings, films, sound recordings, pictorial reproductions, drawings, designs, or other graphic representations, procedural manuals, forms, diagrams, work flow charts, equipment descriptions, data files, data processing or computer programs (software), statistical records, and other research data."

--U.S National Institutes of Health
Grants Policy Statement
2011-09-01

Why data management?



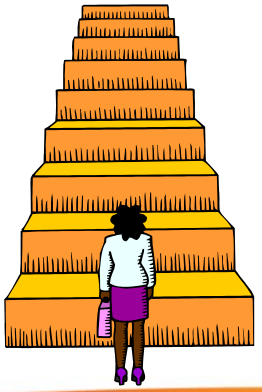
Rewards of managed data

Once data is organized and properly managed it becomes:

- Discoverable – easy to find
- Accessible – easy to get reach
- Meaningful - placed in a context
- Reusable – others can use and build on it
- Verifiable – check others results more carefully
- Citable – people can get credit for their data
- Attributable – Can be used in CVs and promotion cases.
- Valuable – Adds value for organization and researcher

Challenges to managing data

- Data difficult to manage once funding associated with the project ceases
- Data shared through informal networks
- Only 21% use a national or international facility
- Only 18% deposit data with a data centre
  - But 43% expressed the need to access other researchers' data

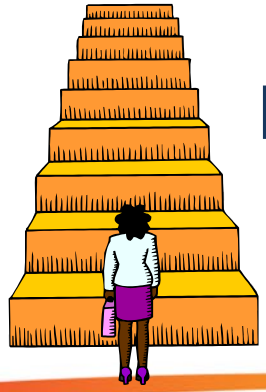


Source: UKRDS study:
The Data Imperative, 2009

Challenges to managing data

The Challenges

- No widely used method to identify datasets
- No widely used method to cite datasets
- No effective way to link between articles and datasets



How can we start to solve these challenges?

DataCite (International)

- International Not-for-profit organisation formed in London on 1 December 2009.
- Founding members were from 6 countries, including Canada, many more joined since that time
- Provides a global infrastructure for assigning DOIs to research data.
- Aims to:
  - establish easier access to research data on the Internet
  - increase acceptance of research data as legitimate, citable contributions to the scholarly record
  - support data archiving that will permit results to be verified and re-purposed for future study.

DataCite (International)

AU: Australian National Data Service

CA: Canada Institute for Scientific and Technical Information

CH: ETH Zurich

DE: German National Library of Science and Technology; German National Library of Medicine; GESIS – Leibniz Institute for Social Science; German National Library of Economics

DK: Technical Information Center of Denmark

FR: Institute for Scientific and Technical Information

IT: Conferenza dei Rettori delle Universita' italiane

KR: Korea Institute of Science and Technology Information

NL: TU Delft Library

SE: Swedish National Data Service

UK: British Library; Digital Curation Centre

US: California Digital Library; Office of Scientific and Technical Information, US Dept. of Energy; Purdue University Libraries; Interuniversity Consortium for Political and Social Research; Microsoft Research

20 organizations in 12 countries

DOIs - Addressing the Challenge

- Definition:

  a persistent identifier consisting of a prefix and suffix that together form a completely unique identifier that is permanently linked to an object itself, and not to where it is located such as in the case of a URL.

- Anatomy

PREFIX:
Provided by CISTI

10.4224/17210689

SUFFIX:
Assigned by the Client

10.4224/17210689

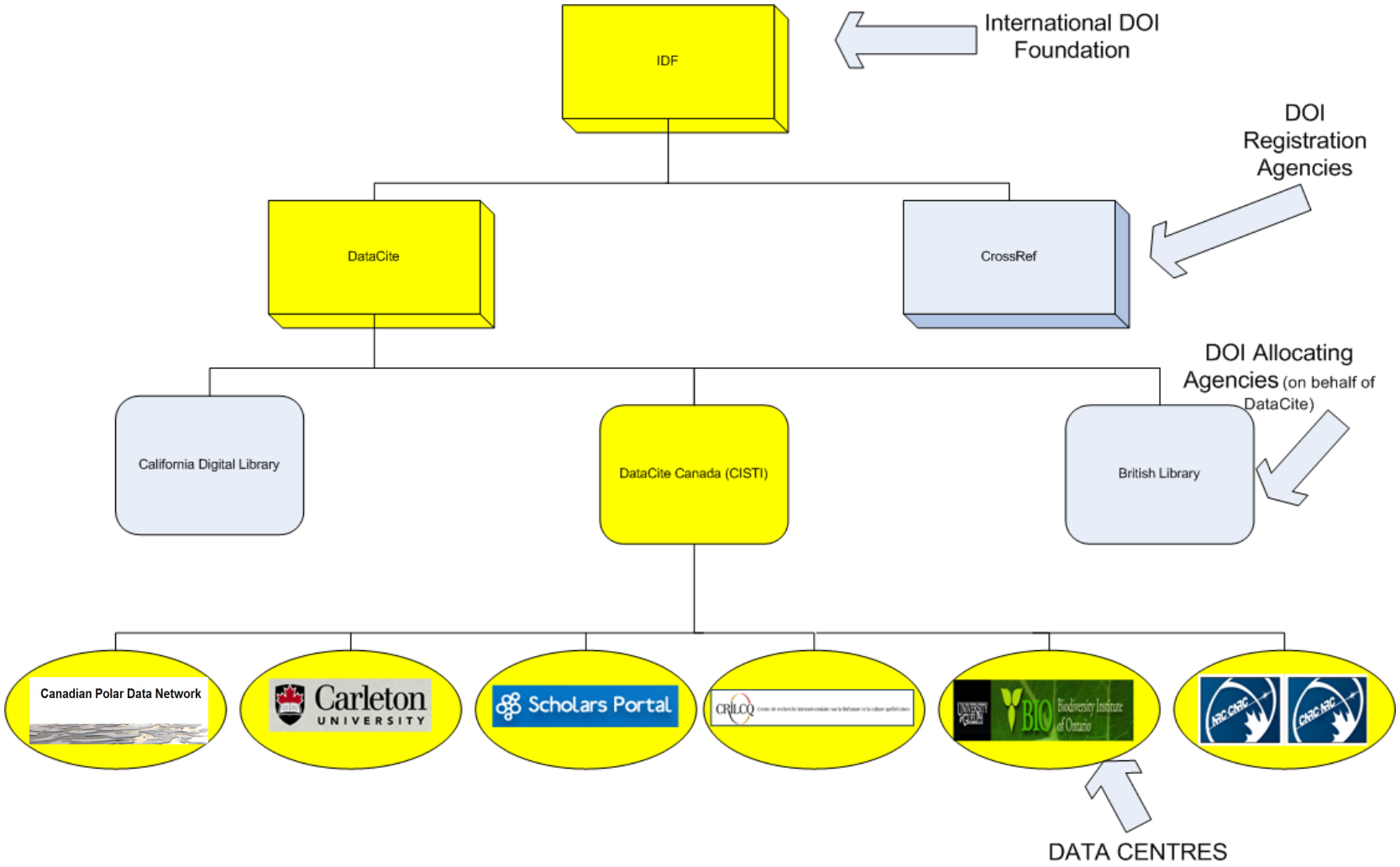
DOIs Strengths

- ISO standard http://www.iso.org/iso/news.htm?refid=Ref1561

  ISO 26324:2012, *Information and documentation -- Digital object identifier system*

- Existing infrastructure and support
- Well established in the scholarly journal article world.
- Metadata included facilitating discoverability and citation of data
- URL can be updated in one place to ensure ongoing access, same DOI even if object has URL change
- Track more easily, produce use and citation statistics from DOIs. Funding and research groups review citation stats.
- A means for researchers to get credit for data citations, can use on CVs, makes data sharing more acceptable

Data Cite Canada



CISTI's role with DataCite

DataCite Canada is Canada's DOI allocating agency for data.

- Provides local services and support for Canadian researchers, data centres and libraries
- Contributes to ongoing development of DataCite's services and resources on behalf of Canadian clients
- Promotes the value of data archiving, citation and discoverability within Canada

Data Cite Canada

- WHO does DataCite Canada work with?

  non-profit organizations and government departments who have responsibility for managing data.

- WHAT type of data.

  Datasets, grey literature (e.g. thesis, technical reports)

- COST

  Free to non-profit organizations and government departments until March 2015

Data Cite Canada(cont'd)

- PROCESS
  1. Client contacts DataCite Canada via email
  2. DataCite Canada staff have a conversation to determine if the basic criteria for becoming a client are met.
  3. If so, then the client is sent a client info package which provides additional information about the DOI registration process.
  4. Further conversations by phone or email to ensure prospective client is able to meet their responsibilities as a DataCite Client.

Data Cite Canada(cont'd)

- PROCESS (cont'd)
  5. Sign an MOU or SLA
  6. Establish an account for the new client and provide them with their own prefix
  7. Client then start to use the DataCite admin interface to register individual DOIs or develop a webservice so that they can integrate DOI registration within their existing metadata process by using DataCite's API.
  8. DataCite Canada provides the client with all the support they need to use available services, including access to documentation.

Data Cite Canada – how it works

As the DataCite registration agency, CISTI is responsible for:

1. Providing access to DOI registration services.

2. Providing access to technical and account support for the registration services.

3. Providing access to technical documentation explaining the APIs and metadata schema.

4. Providing the data centre name 60 days written notice of any changes to the metadata schema or APIs that could impact upon the data centre's name ability to register their data.

About Knowledge Management

NRC National Science Library
- Order Documents
- Account Management
- How Do I?
- Ask NRC-CISTI
- NRC-CISTI Alerts
- About NRC-CISTI

Community Services
- NRC Publications Archive
- DataCite Canada
- DOCLINE in Canada
- PubMed Central Canada
- Gateway to Scientific Data

Completed Access to Information Requests

Proactive Disclosure

DataCite Canada

DataCite Canada Services

Adding value to your research through data registration

DataCite Canada's data registration service provides Canadian data centres and libraries with a mechanism for registering research data and assigning digital object identifiers (DOIs) to them.

DOIs help data producers take control of the management of their research, share, get credit for it and build their reputation through data citations. DOIs also make research data easier to access, reuse and verify, thereby making it easier to build on previous work, conduct new research and avoid duplicating already existing work.

Our data registration service requires organizations to first register for an account. To find out how, see our **Information for Prospective Clients** section.

DataCite Canada's services are offered in cooperation with **DataCite**, an international consortium of national-scale libraries and research organizations committed to increasing access to research data on the Internet. DataCite Canada is DataCite's DOI allocation agent for Canada.

Metadata Searches

- **Search all research data registered in DataCite**
  (This link takes you to the DataCite (international) Metadata Search page, where you can search over one million registered datasets from around the world.)
- **View all research data registered by DataCite Canada**
  (This link allows you to view only those research datasets registered by DataCite Canada.)

DataCite Canada account holders

Login to assign your DOIs

Enquiries: DataCite Canada

Email: datacite.cisti@nrc-cnrc.gc.ca

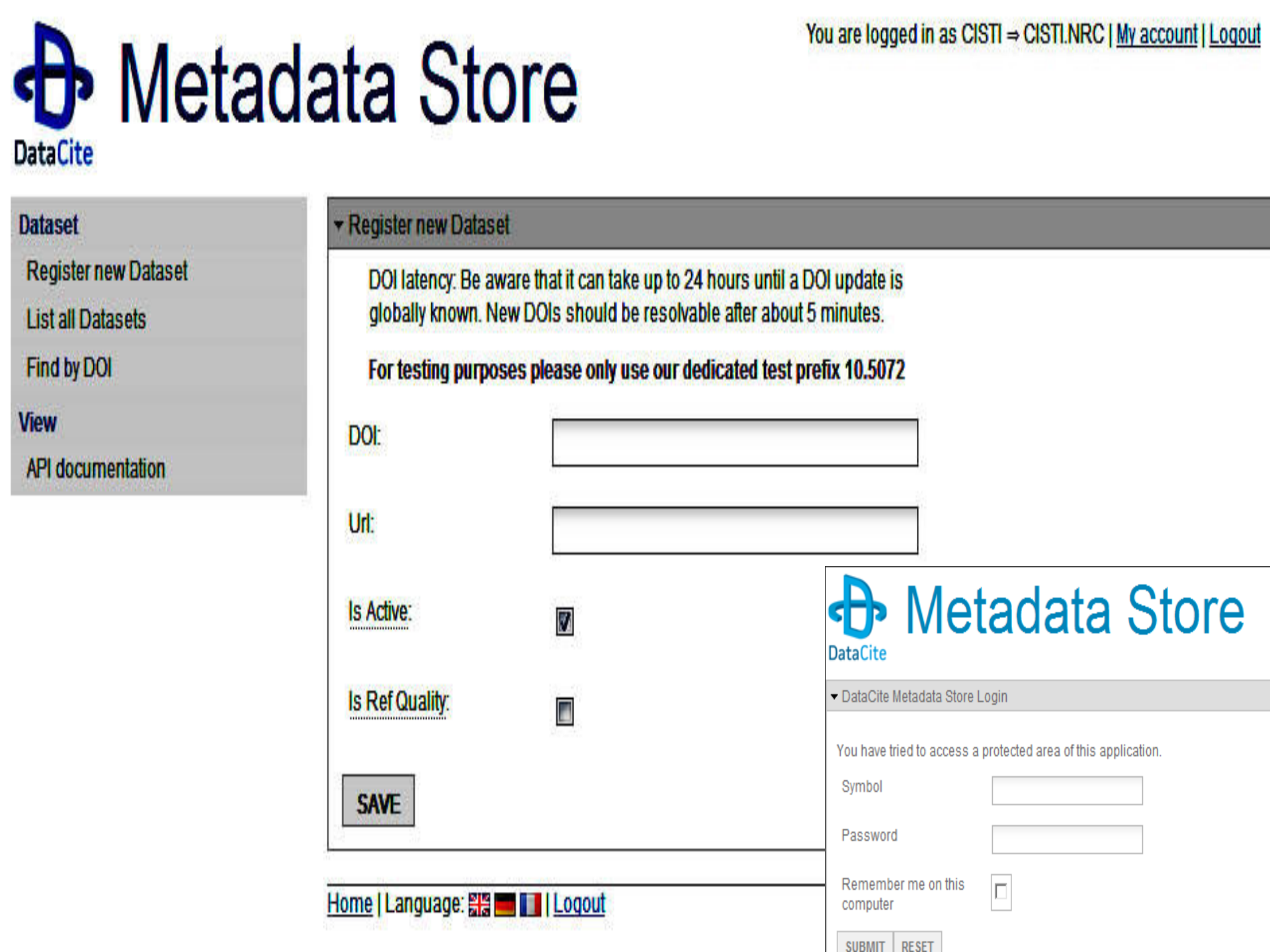
Quick Links
- DataCite Canada Home
- About DataCite Canada
- Fact Sheets
- Information for Prospective Clients
- Information for Account Holders
- Information for NRC

News
- DataCite and publishing community sign joint statement
- NRC-CISTI launches DataCite Canada
- DataCite Canada update: First DOIs assigned
- DataCite Canada pilot participants announced

DataCite - a global registration agency for research data

DataCite Canada is part of the broader international DataCite initiative...
[More about DataCite]

http://cisti-icist.nrc-cnrc.gc.ca/eng/services/cisti/datacite-canada/index.html


Metadata Store
DataCite
You are logged in as CISTI ⇒ CISTI.NRC | My account | Logout
Dataset
Register new Dataset
List all Datasets
Find by DOI
View
API documentation
Register new Dataset
DOI latency: Be aware that it can take up to 24 hours until a DOI update is globally known. New DOIs should be resolvable after about 5 minutes.
For testing purposes please only use our dedicated test prefix 10.5072
DOI:
Url:
Is Active:
Is Ref Quality:
SAVE
Home | Language: | Logout
Metadata Store
DataCite
DataCite Metadata Store Login
You have tried to access a protected area of this application.
Symbol
Password
Remember me on this computer
SUBMIT
RESET

Responsibilities of DataCite Canada clients

The DataCite Canada Client is responsible for:

1. Quality of the data and metadata.
2. Data Storage.
3. Ensuring that it has the authority to make the data and metadata available.
4. DOI Registration – registering each research data object using DataCite's registration system by providing the DOI, the core metadata elements (as defined in the DataCite Metadata Schema) and a URL for the landing page.
5. Providing persistent data access by ensuring that the landing page includes information about the data, direct access to the data or information about how to access it, and ensuring that any changes to the landing page URL are reflected in the DOI registration system.
6. Agreeing to make their metadata freely available for discovery purposes.

Landing Page

NRC National Science Library

NRC Publications Archive

- Search Tips
- Submit Publication
- Reports
- Benefits, Factsheet and Licence to Publish Forms
- Linking Tips
- Frequently Asked Questions

Community Services

- Catalogue
- Discover
- NRC Publications Archive
- DataCite Canada
- DOCLINE in Canada
- PubMed Central Canada
- Gateway to Scientific Data

NRC Publications Archive

View deposited version

DOI: http://dx.doi.org/10.4224/17210689

Numerical Work for Oceanide Project - A Progress Report

Author(s): Derradji-Aouat, Ahmed
Affiliation: National Research Council Canada; NRC Institute for Ocean Technology

Language: English
Type: Report
Series: Technical Report
Series #: TR-2010-22
Date: 2011
Description: 10p.
NPArC #: 17210689
Keywords: Experimental; numerical; ice ridges; strain rates
Program(s): Arctic Operations; Opérations dans l'Arctique
Group(s): Research; Recherche
Abstract: This is a progress summary for the numerical component of

MetaData

- Metadata (http://schema.datacite.org/)
- Small mandatory element set for citations
  - DOI
  - Title
  - Creator
  - Publisher
  - Publication year

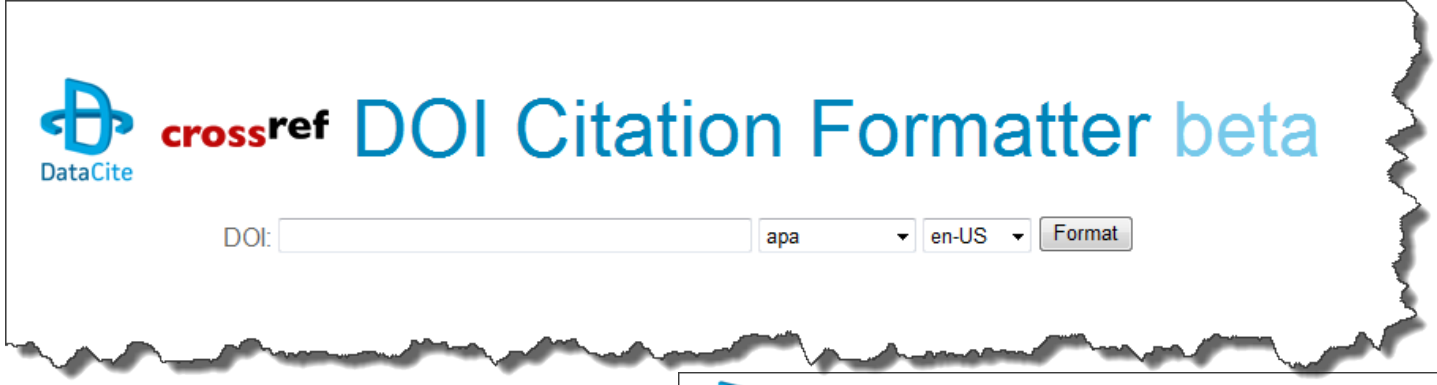
Irino, T; Tada, R (2009): Chemical and mineral compositions of sediments from ODP Site 127-797. Geological Institute, University of Tokyo. http://dx.doi.org/10.1594/PANGAEA.726855

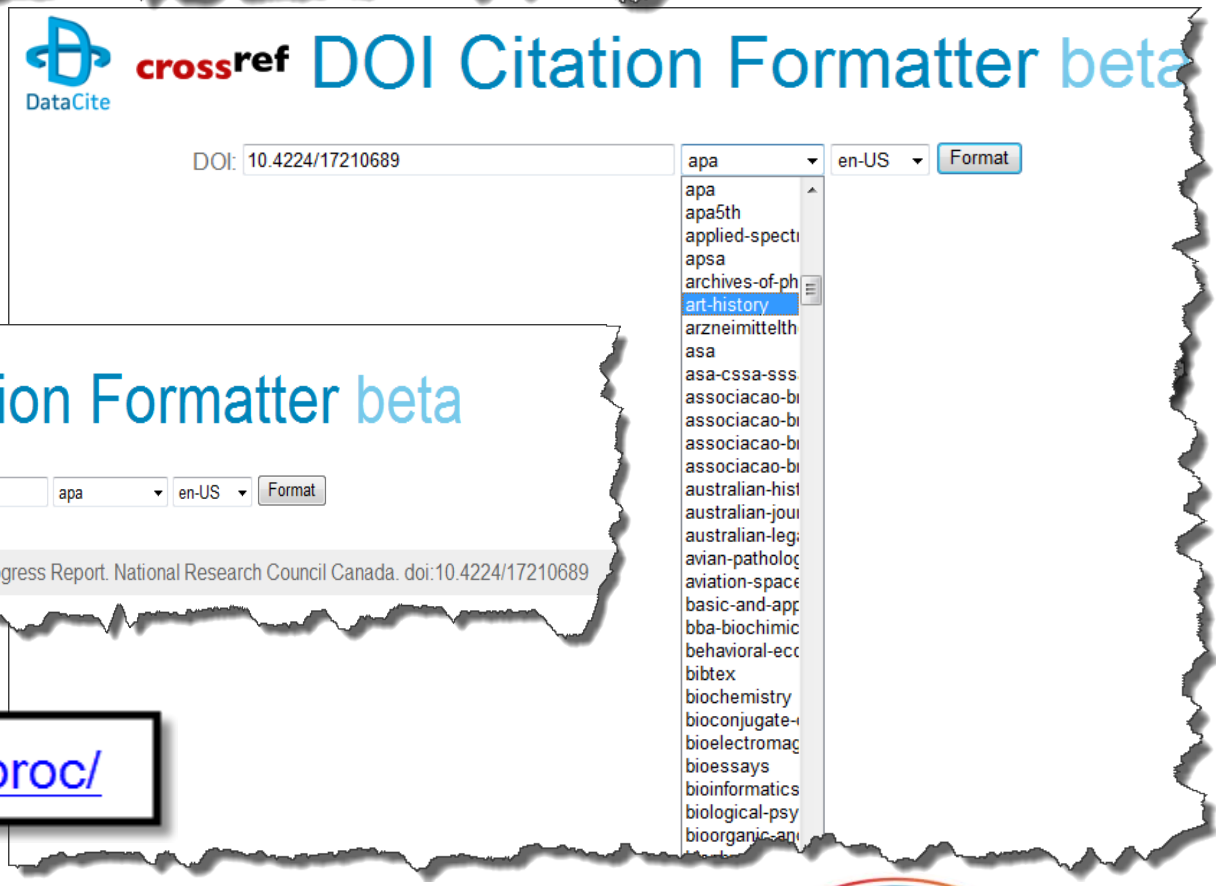
DataCite Statistics Beta

http://stats.datacite.org/

Registrations by Allocators | Registrations by Datacentres | Registrations by Prefixes | Resolutions by Month

	DOI Registrations				Metadata Uploads				
Datacentre	All Time	This Year	Last 30 Days	Last 7 Days	All Time	This Year	Last 30 Days	Last 7 Days	Metadata Ratio
ANDS.CENTRE-1 - Griffith University	22	22	0	0	22	22	0	0	100%
ANDS.CENTRE-2 - CSSE Uni Melbourne	4	0	0	0	4	0	0	0	100%
ANDS.CENTRE-3 - Curtin University	0	0	0	0	0	0	0	0	0%
CDL.UMA - UMA	1	1	0	0	1	0	0	0	100%
CDL.USGS - USGS	27	26	0	0	27	26	0	0	100%
CISTI.BOLD - Biodiversity Institute of Ontario	5	5	2	0	0	0	0	0	0%
CISTI.IPY - International Polar Year (IPY)	80	80	35	0	80	80	35	0	100%
CISTI.NRC - National Research Council	1 818	1 791	1 791	0	1 818	1 791	1 791	0	100%
CNR.UNIMI - Università degli Studi di Milano	4	4	0	0	0	0	0	0	0%
DATACITE.DATACITE - DataCite	6	0	0	0	6	0	0	0	100%
DELFT.DATACENT - 3TU Datacentrum	2 146	2 119	0	0	2 144	2 144	0	0	99%
DELFT.JRC - Joint Research Centre's Institute of Energy	63	0	0	0	63	63	0	0	100%
DELFT.TUDARCH - TU Delft Architecture	22	22	1	0	22	22	1	0	100%
DELFT.TUDELFT - TU Delft Library	336	89	34	11	62	62	33	11	18%
DK.DTIC - DTIC Datacenter	2 021	0	0	0	2 020	0	0	0	99%
ETHZ.DODIS - DODIS - Diplomatische Dokumente der Schweiz	15	15	15	0	15	15	15	0	100%
ETHZ.E-COLL - DOI-CH	26 168	26 168	84	26	26 165	26 165	81	23	99%
[illegible]/itreoretinal Surgery		5							100%
ZBW.PBR - e-Journal of Practical Business Research	36	5	0	0	11	5	0	0	30%
Totals	1 102 170	354 103	12 828	1 630	849 607	332 375	11 209	716	





http://crosscite.org/citeproc/

DataCite

Helping you to find, access, and reuse data

http://www.datacite.org/repolist

Repositories

This list is a working document, initated via a collaboration between the British Library, BioMed Central and the Digital Curation Centre, that aims to capture the growing number of repositories for research data. It is provided for information purposes only: DataCite provides no endorsements as to the quality or suitability of the repositories listed. We encourage community participation in developing this resource. Please contact us to suggest changes or additions. A copy of the list can be downloaded from Google Docs.

Repository	Website	Subject area(s)	Funding model	Deposit restrictions	Access restrictions	Li ag
Domain-specific and general data repositories (multiple formats accepted)						
3TU.Datacentrum	http://www.datacentrum	Technical sciences, climate, fluid dynamics, earth sciences	Project funded by 3TU.Federation	None, preferred formats suggested	Data is only displayed if permission has been granted by the owner who has stored it at 3TU.Datacentrum.	N lic ag
Access to Archival Databases	http://aad.archives.gov/	Various - social, historical, political etc	US government - part of National Archives and Records Administration (NARA)			
			Multiple funders: AHRC, NERC, National & International project		All data are free to	D re Al ex to

Thomson Reuters Launches Data Citation Index for Discovering Global Data Sets

SOURCE Thomson Reuters

First-of- its-kind Data Citation Index connects researchers to data repositories around the world

PHILADELPHIA, Oct. 16, 2012 /PRNewswire/ -- The Intellectual Property & Science business of Thomson Reuters, the world's leading provider of intelligen information for businesses and professionals, announced today the launch of the *Data Citation Index*™, a research resource within the *Web of Knowledge*(SM to facilitate the discovery, use and attribution of data sets and data studies that also link to peer-reviewed literature.

This new research resource from Thomson Reuters creates a single source o discovery for scientific, social sciences and arts and humanities information. It provides a single access point to discover foundational research within data repositories around the world in the broader context of peer-reviewed literature in journals, books, and conference proceedings already indexed in the *Web of Knowledge*.

Historically, it has been extremely difficult to discover, attribute and measure the research compiled within data sets. Analysts at Thomson Reuters closely researched this issue and determined that a system was needed to help researchers more easily discover data relevant to their work and attribute it in a way that appropriately acknowledges intellectual debt. The Thomson Reuters white paper, "Collaborative Science: Solving the Issues of Discovery, Attribution

http://www.wmctv.com/story/19833836/thomson-reuters-launches-data-citation-index-for-discovering-global-data-sets


Options | Advanced Search | About Us | Contact | Help
DataCite
Metadata Search beta
Search
http://search.datacite.org

Metadata Search beta

DataCite

polar Search

Filter

allocator
datacentre
prefix
resourceType
contributor
creator
publicationYear
publisher
language
refQuality
has_metadata

No active filters. Use the sidebar to filter search results.

23956 documents found in 1486ms
Page 1 of 2396

"Heritage at Risk": Cultural Heritage Management in the Antarctic
doi:10.6067/XCV85T3JNK
Evans, Sherrie-lee, AUTHOR (null)
publisher: ICOMOS 2007- eXtreme heritage; The heritage of Polar Landscapes

Polar Lichen photobionts
doi:10.6084/M9.FIGSHARE.101
Stephanie Domaschke
title: Polar Lichen photobionts

Interactome polar map
doi:10.6084/M9.FIGSHARE.8265
André X. C. N. Valente, Michael E. Cusick
title: Interactome polar map

Documenting traditional knowledge in relation to climate change and its effects in Tr'ondëk Hwëch'in traditional territo
doi:10.5443/11378 Collection
Winton, Alexandra • McLeod, Georgette • Neufeld, David • Roburn, Shirley • Friendship, Katelyn • (et. al.)
datacentre: CISTI.IPY - International Polar Year (IPY)
subject: International Polar Year (IPY) 2007-2008

Arctic Wildlife Observatories Linking Vulnerable EcoSystems (ArcticWOLVES)
doi:10.5443/11402 Collection
Gauthier, Gilles • Berteaux, Dominique • Abraham, Kenneth • Béty, Joël • Carrière, Suzanne • (et. al.)
datacentre: CISTI.IPY - International Polar Year (IPY)
description: established close ties with CiCAT, another project funded by the International Polar Year (IPY
subject: International Polar Year (IPY) 2007-2008

Ecological monitoring of polar bears and seals in Nunavut a step toward the future.
doi:10.5443/11419 Collection
Peacock, Elizabeth • Bortoluzzi, Tara • Luque, Sebastian • Derocher, Andrew • Ferguson, Steven H. • (et. al.)
datacentre: CISTI.IPY - International Polar Year (IPY)
title: Ecological monitoring of polar bears and seals in Nunavut a step toward the future.
description: summer of 2009. Polar bear transmitters have been deployed in Hudson Bay in 2007, 2008, and 2009
subject: Polar bear

Metadata Search beta

DataCite

polar Search

Filter

allocator

datacentre

prefix

resourceType

Dataset (23555)

Collection (292)

Text (19)

<not supplied> (90)

contributor

creator

publicationYear

publisher

language

refQuality

has_metadata

No active filters. Use the sidebar to filter search results.

23956 documents found in 409ms

Page 1 of 2396

"Heritage at Risk": Cultural Heritage Management in the Antarctic

doi:10.6067/XCV85T3JNK

Evans, Sherrie-lee, AUTHOR (null)

publisher: ICOMOS 2007- eXtreme heritage; The heritage of Polar Landscapes

Polar Lichen photobionts

doi:10.6084/M9.FIGSHARE.101

Stephanie Domaschke

title: Polar Lichen photobionts

Interactome polar map

doi:10.6084/M9.FIGSHARE.8265

André X. C. N. Valente, Michael E. Cusick

title: Interactome polar map

Documenting traditional knowledge in relation to climate change and its effects in Tr'ondë

doi:10.5443/11378 Collection

Winton, Alexandra • McLeod, Georgette • Neufeld, David • Roburn, Shirley • Friendship, Katelyn • (et. al.)

datacentre: CISTI.IPY - International Polar Year (IPY)

subject: International Polar Year (IPY) 2007-2008

Arctic Wildlife Observatories Linking Vulnerable EcoSystems (ArcticWOLVES)

doi:10.5443/11402 Collection

Gauthier, Gilles • Berteaux, Dominique • Abraham, Kenneth • Béty, Joël • Carrière, Suzanne • (et. al.)

datacentre: CISTI.IPY - International Polar Year (IPY)

description: established close ties with CiCAT, another project funded by the International Polar Year (IPY

subject: International Polar Year (IPY) 2007-2008

Ecological monitoring of polar bears and seals in Nunavut a step toward the future.

Metadata Search beta

DataCite

polar Search

Filter

allocator
datacentre
prefix
contributor
creator
publicationYear
publisher
language
refQuality
has_metadata

Active filters (clear all): resourceType Dataset

23555 documents found in 1020ms
Page 2356 of 2356

cops_radk_cband: radar data from C-Band Doppler Radar run by FZK-IMK during COPS 2007 [version 1]
doi:10.1594/WDCC/COPS_RADK_CBAND Dataset : Digital
Handwerker, Jan
description: . Volume data in polar coordinates are delivered. Two scans have been performed: 1. 14 Elevation volume

(Table T1) Radiolaria abundance of ODP Hole 175-1082A, supplement to: Weinheimer, Amy L (2001): Radiolarians fro
Drilling Program, Scientific Results, College Station, TX (Ocean Drilling Program), 175, 1-16
doi:10.1594/PANGAEA.787554 Dataset : Supplementary Dataset
Weinheimer, Amy L
description: characterize the equatorial, subtropical, transition, subpolar, and polar regions of ocean basins

Bones collection of Lena Delta reserve Tiksi, Appendix 4-6
doi:10.1594/PANGAEA.614882 Dataset : Dataset
Kuznetsova, Tatyana V
description: bones collected by Yarlykov Yu. A. on Makar Island (Yana Delta Region) near the Makar polar station

Concentrations of total organic carbon on vertical profiles in waters of the Weddell Sea measured on water bottle sampl
doi:10.1594/PANGAEA.696180 Dataset : Dataset
Kähler, Paul • Bjørnsen, Peter K • Lochte, Karin • Antia, Avan
description: Polar Front in the north, the zone of melting sea-ice in the south, and waters of the Antarctic

(Table T1) Abundance of radiolarian skeletons in scrape samples of ODP Hole 178-1098B, supplement to: Weinheime
1098. In: Barker, PF; Camerlenghi, A; Acton, GD; Ramsay, ATS (eds.) Proceedings of the Ocean Drilling Program, Sci
doi:10.1594/PANGAEA.142770 Dataset : Supplementary Dataset
Weinheimer, Amy L
description: hydrographic boundaries. In a transect from the subtropical Atlantic to polar Antarctic zones, radiolarians in

Page 2356 of 2356

DataCite Metadata Search • Query Time: 1020ms • API Query: xml, json, csv • OAI-PMH

Data Description

Show Map

Citation: **Kähler, Paul; Bjørnsen, Peter K; Lochte, Karin; Antia, Avan (2008):** Concentrations of total organic carbon on vertical profiles in waters of the Weddell Sea measured on water bottle sample during POLARSTERN cruise ANT-X/6. doi:10.1594/PANGAEA.696180

Reference(s): **Kähler, Paul; Bjørnsen, Peter K; Lochte, Karin; Antia, Avan (1997):** Dissolved organic matter and its utilization by bacteria during Spring in the Southern Ocean. 44, 341-353. *Deep Sea Research Part II: Topical Studies in Oceanography*, **44(1-2)**, 341-353, doi:10.1016/S0967-0645(96)00071-9

Abstract: Concentrations of dissolved organic carbon (DOC) and nitrogen (DON) were measured during early austral Spring 1992 at a number of stations along the 6°W meridian between 47° and 60°S. This included the Polar Front in the north, the zone of melting sea-ice in the south, and waters of the Antarctic Circumpolar Current in between. Concentrations of DOC were low in deep water (34-38 ?M) with generally similar or slightly higher values in the surface mixed layer (38-55 ?M). DOC:DON ratios are wider in surface water than in deep water, i.e. surface accumulations contain relatively C-rich dissolved organic matter. The highly variable distribution of the surface DOC was not related to hydrographic or biotic features (fronts, plankton development) indicating the lability and transient occurrence of this material.

Growth rates of bacteria were determined in subsamples from 51 0.8-?m-filtered batches of seawater incubated in the dark at in-situ temperature. Thymidine and leucine uptake and bacterial biomass change as well as changes in dissolved organic carbon in the batches, and oxygen consumption in parallel incubations correlated linearly over 2 weeks of incubation which allowed extrapolation to in-situ conditions.

Bacterial growth in these experiments depended strongly on the amount of initial DOC. Growth in water from greater depth (1000 m) containing 38 ?M DOC was minimal, as were DOC-decrease and oxygen consumption. Higher rates were observed in surface water slightly enriched with DOC, and highest rates in surface water amended with DOC-rich melted sea ice. Bacterial growth efficiencies (biomass C-increase vs DOC consumed) were about 30%. The experiments showed that at least 40-60% of the DOC in excess of deep water concentrations was available to bacteria.

Comment: Water samples were collected in 10 l Niskin bottles after being acidified with 10 ml phosphoric acid (pH < 2) and stored in 1 l glass bottles, or 40 ml screw-cap vials, and measured aboard the research vessel shortly after sampling or at the next port of call, or preserved by being acidified and measured in home labs.

Measurement was by high-temperature catalytic oxidation in a 10 cm column packed with 5% Pt on aluminum oxide beads at 900°C in a stream of oxygen, and CO2 detection by infrared extinction after the removal of moisture and SO2 by appropriate traps (cold percarbonate, Na-pyrophosphate, tin, bronze or Sulfix). The apparatus was the dual channel Dimatek 2000 equipped with a Binos 200 detector.

Parameter(s):

#	Name	Short Name	Unit	Principal Investigator	Method	Comment
1	Event label	Event				Metadata
2	DATE/TIME	Date/Time				Geocode
3	LATITUDE	Latitude				Geocode
4	LONGITUDE	Longitude				Geocode
5	Elevation of event	Elevation	m			Metadata
6	DEPTH, water	Depth water	m			Geocode
7	Carbon, organic, total (dissolved+particulate)	TOC	µmol/l	Kähler, Paul		

License: (cc) BY Creative Commons Attribution 3.0 Unported

Size: 201 data points

Download Data

Download dataset as tab-delimited text (*use the following character encoding:* ISO-8859-1: ISO Western (PANGAEA default))

View dataset as HTML


Metadata Search beta
polar
Search
Options | Adv
DataCite
Filter
allocator
datacentre
prefix
contributor
creator
publicationYear
publisher
Active filters (clear all): resourceType Dataset
23572 documents found in 396ms
Page 2358 of 2358
Concentrations of total organic carbon on vertical profiles in waters of the Weddell Sea measured on water bottle sample during POLARSTERN cruise ANT-XI/6
doi:10.1594/PANGAEA.696180 Dataset : Dataset
Kähler, Paul • Bjørnsen, Peter K • Lochte, Karin • Antia, Avan
description: Polar Front in the north, the zone of melting sea-ice in the south, and waters of the Antarctic
(Table T1) Abundance of radiolarian skeletons in scrape samples of ODP Hole 178-1098B, supplement to: Weinheimer, Amy L (2002): Data report: Radiolarians in sediments from Palmer
1098. In: Barker, PF; Camerlenghi, A; Acton, GD; Ramsay, ATS (eds.) Proceedings of the Ocean Drilling Program, Scientific Results, College Station, TX (Ocean Drilling Program), 178, 1-
doi:10.1594/PANGAEA.142770 Dataset : Supplementary Dataset
Weinheimer, Amy L
description: hydrographic boundaries. In a transect from the subtropical Atlantic to polar Antarctic zones, radiolarians in

DataCite Content Service Beta

doi:10.1594/PANGAEA.696180

This page represents DataCite's metadata for *doi:10.1594/PANGAEA.696180*.

For a landing page of this dataset please follow http://dx.doi.org/10.1594/PANGAEA.696180

Citation

Kähler, Paul; Bjørnsen, Peter K; Lochte, Karin; Antia, Avan; (2008): Concentrations of total organic carbon on vertical profiles in waters of the Weddell Sea measured on water bottle sample during POLARSTERN cruise ANT
Data Publisher for Earth & Environmental Science. http://dx.doi.org/10.1594/PANGAEA.696180 RIS BIBTEX

Descriptions

Abstract

Concentrations of dissolved organic carbon (DOC) and nitrogen (DON) were measured during early austral Spring 1992 at a number of stations along the 6°W meridian between 47° and 60°S. This included the Polar Front i
melting sea-ice in the south, and waters of the Antarctic Circumpolar Current in between. Concentrations of DOC were low in deep water (34-38 ?M) with generally similar or slightly higher values in the surface mixed layer (3
ratios are wider in surface water than in deep water, i.e. surface accumulations contain relatively C-rich dissolved organic matter. The highly variable distribution of the surface DOC was not related to hydrographic or biotic fe
plankton development) indicating the lability and transient occurrence of this material.Growth rates of bacteria were determined in subsamples from 51 0.8-?m-filtered batches of seawater incubated in the dark at in-situ temp
and leucine uptake and bacterial biomass change as well as changes in dissolved organic carbon in the batches, and oxygen consumption in parallel incubations correlated linearly over 2 weeks of incubation which allowed e
conditions.Bacterial growth in these experiments depended strongly on the amount of initial DOC. Growth in water from greater depth (1000 m) containing 38 ?M DOC was minimal, as were DOC-decrease and oxygen cons
were observed in surface water slightly enriched with DOC, and highest rates in surface water amended with DOC-rich melted sea ice. Bacterial growth efficiencies (biomass C-increase vs DOC consumed) were about 30%
showed that at least 40-60% of the DOC in excess of deep water concentrations was available to bacteria.

Resource type

Dataset Dataset

Subjects

Parameter Carbon, organic, total (dissolved+particulate)

Campaign ANT-X/6

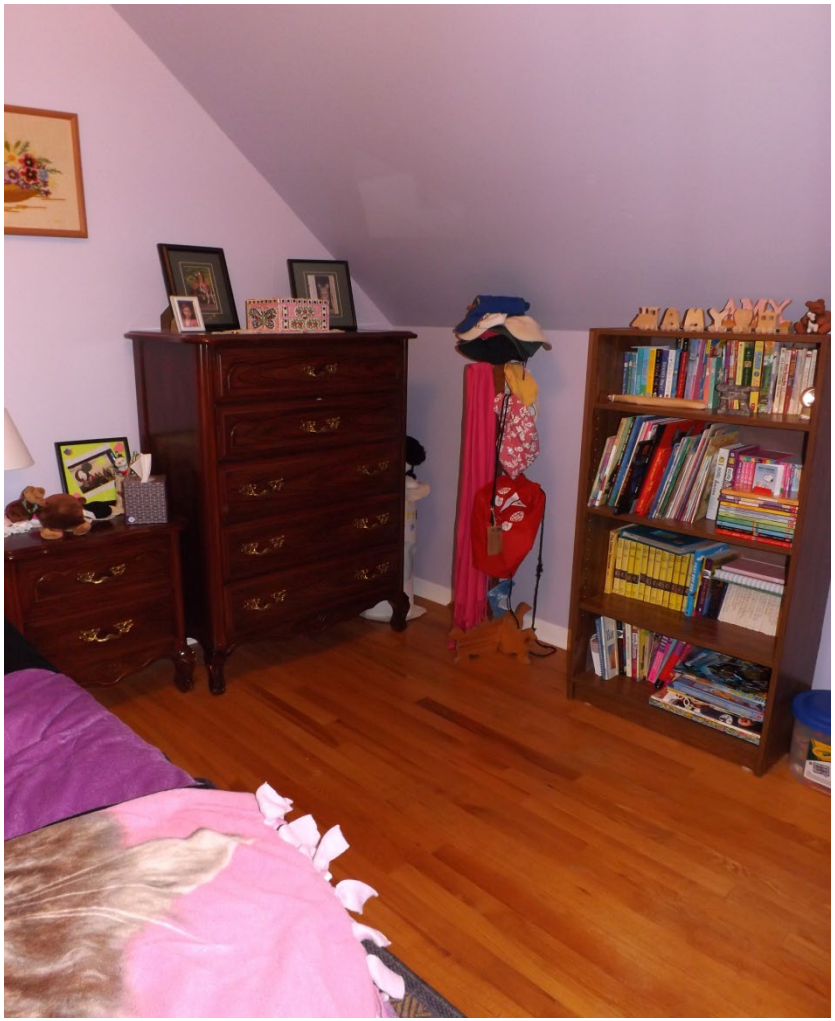
Basis Polarstern

License Creative Commons Attribution 3.0 Unported (CC-BY)

Size 201 data points

Language eng

THIS IS WORTH DOING!!!



Questions?

Karen Morgenroth – DataCite Canada Manager

Cyndie Found – DataCite Canada Client Services Lead

Lynne McAvoy - DataCite Canada Metadata Lead

Marcin Paluch - DataCite Canada Technical Lead

Contact Us:

www.nrc-cnrc.gc.ca/datacite

DataCite.CISTI@nrc-cnrc.gc.ca