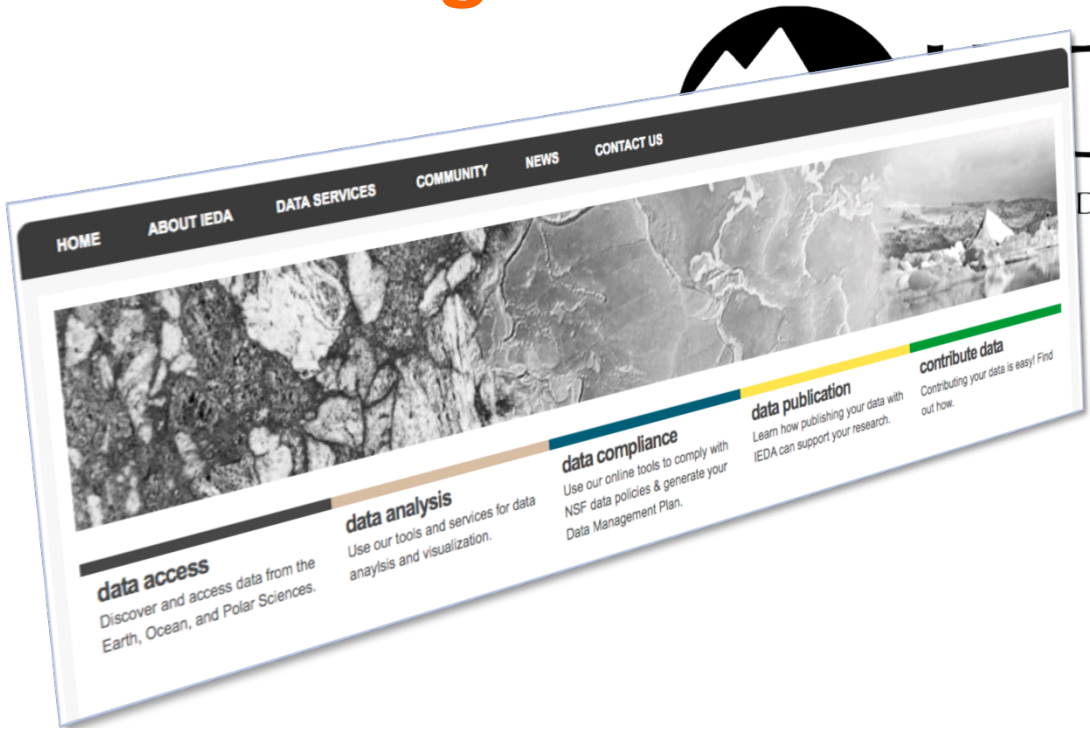
INTEGRATED EARTH DATA APPLICATIONS
iedadata.org

Integrated Earth Data Applications:
Enhancing Reliable Data Services Through the Use of Persistent Identifiers



Lamont-Doherty Earth Observatory
COLUMBIA UNIVERSITY | EARTH INSTITUTE

Outline

Data services @ IEDA

Types of Unique Identifiers @ IEDA

Use of Unique Identifiers @ IEDA

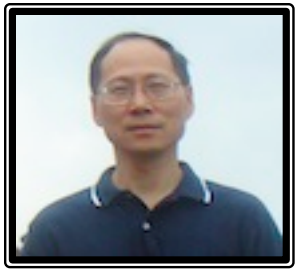
- Data Publication
- Linking Data, Samples, & Literature
- Data Compliance Support
- Interoperability

Thanks to the IEDA Team

R. Arko

S. Carbotte

S. Chan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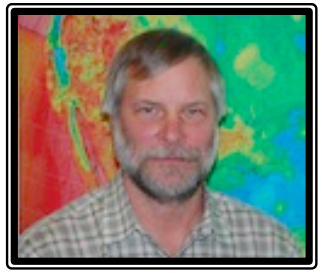
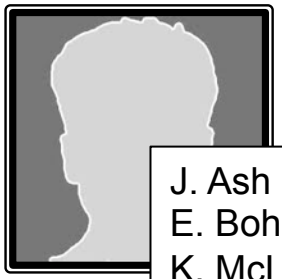

D. Walker

R. Weissel

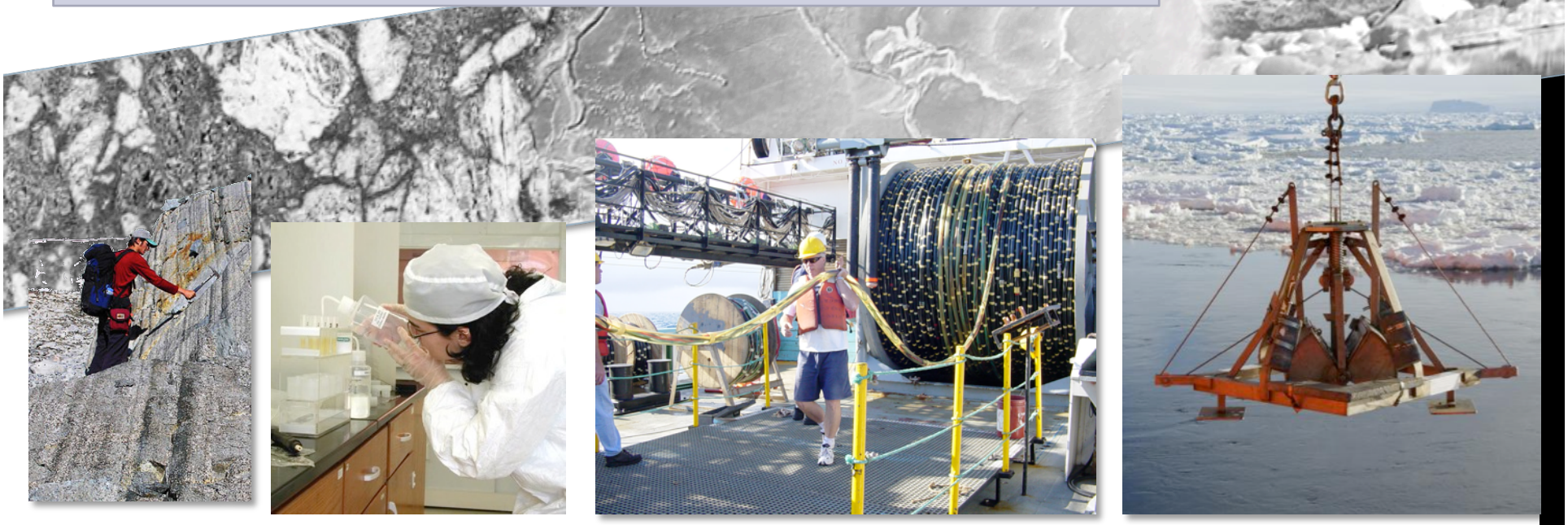


J. Ash
E. Bohl
K. McLain
J. Zampas

IEDA

www.iedadata.org

"… a community-based facility that serves to support, sustain, and advance the geosciences by providing a centralized location for the registry of and access to data essential for research in the solid-earth and polar sciences."



IEDA Scope:

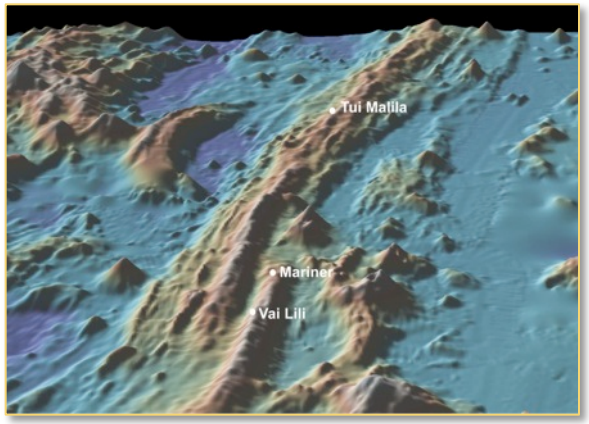
IEDA
INTEGRATED EARTH DATA APPLICATIONS

NSF

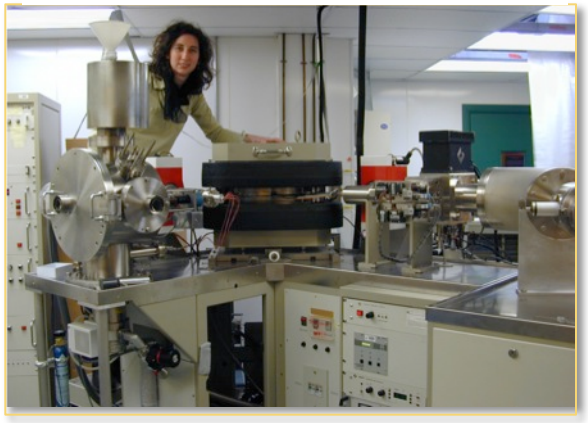
Solid Earth Observational Data

MARINE GEOSCIENCE DATA SYSTEM

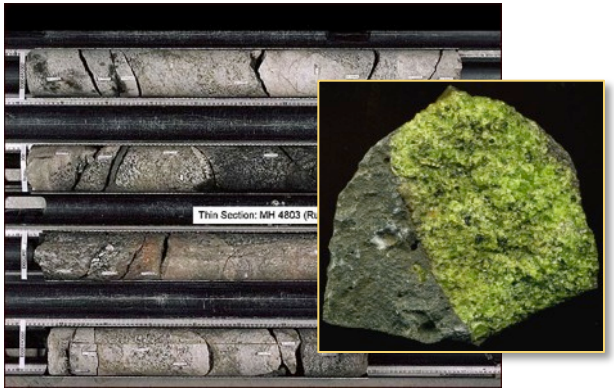
EarthChem



Derived Data



Field Data



Sensor-based

Sample-based

IEDA Data Types

Sensor-based (MGDS)

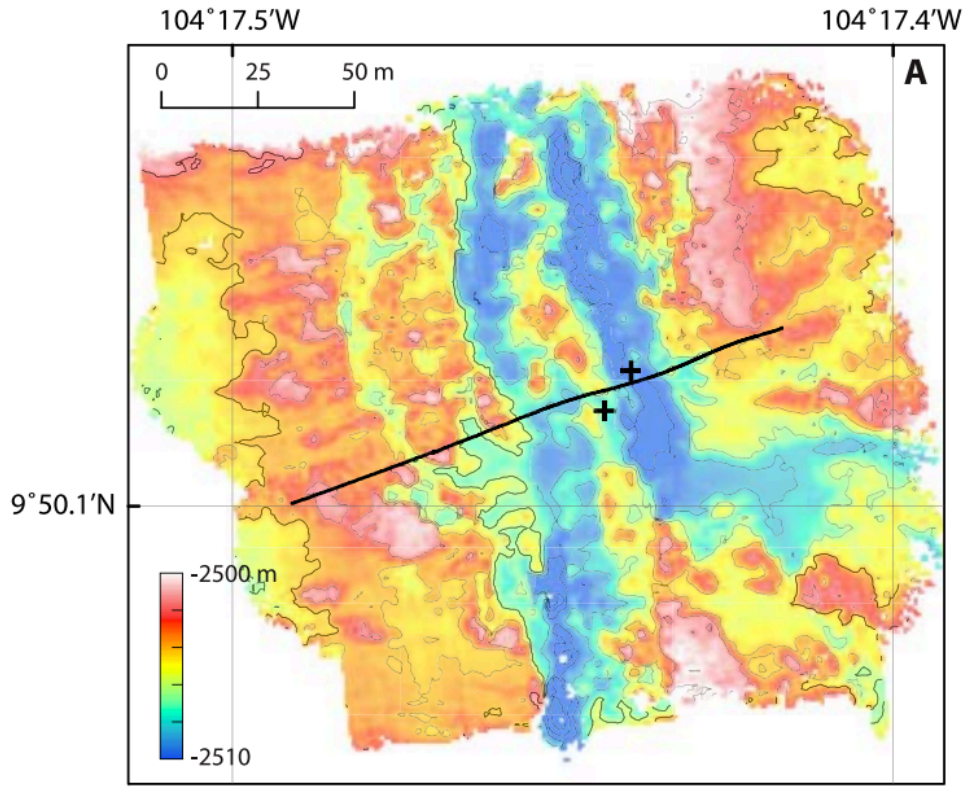
- Field data: e.g.: sonar ping files, seismic reflection shot data, side-scan sonar, photographs, gravity field data, temperature *(>70 data types)*
- Derived data: e.g.: bathymetric grids, side-scan sonar grids, micro-seismicity catalogs, migrated seismic reflection profiles, gravity MBA grids, magnetization grids *(>65 data types)*

Sample-based (EarthChem)

- Sample metadata profiles: rocks, sediments, liquids, soils
- Analytical lab data: e.g.: major & trace element compositions, isotopic ratios, mineralogy, geochronology, age models, P/T model data, calculated end-member compositions *(> 500 measured properties)*

IEDA hosts diverse data

- **Derived Geophysical Data**
- Analytical geochemistry data
- Geochronological data
- Sample metadata
- Seismic Reflection Data
- Photos and images



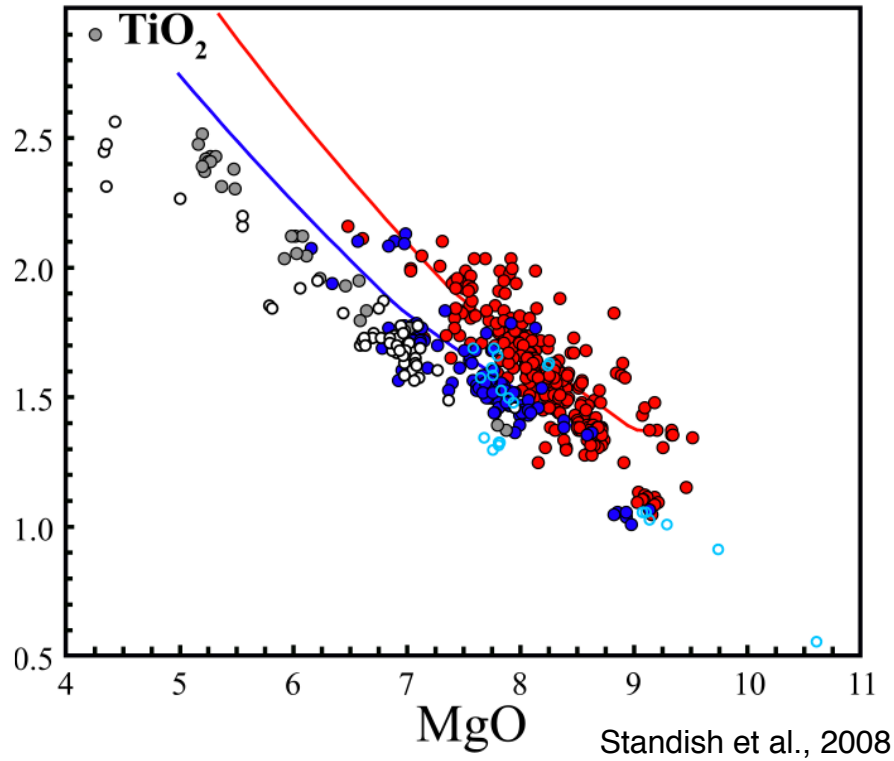
Soule et al., 2008

Multibeam bathymetry data

Marine Geoscience Data System

IEDA hosts diverse data

- Derived Geophysical Data
- **Analytical geochemistry data**
- Geochronological data
- Sample metadata
- Seismic Reflection Data
- Photos and images



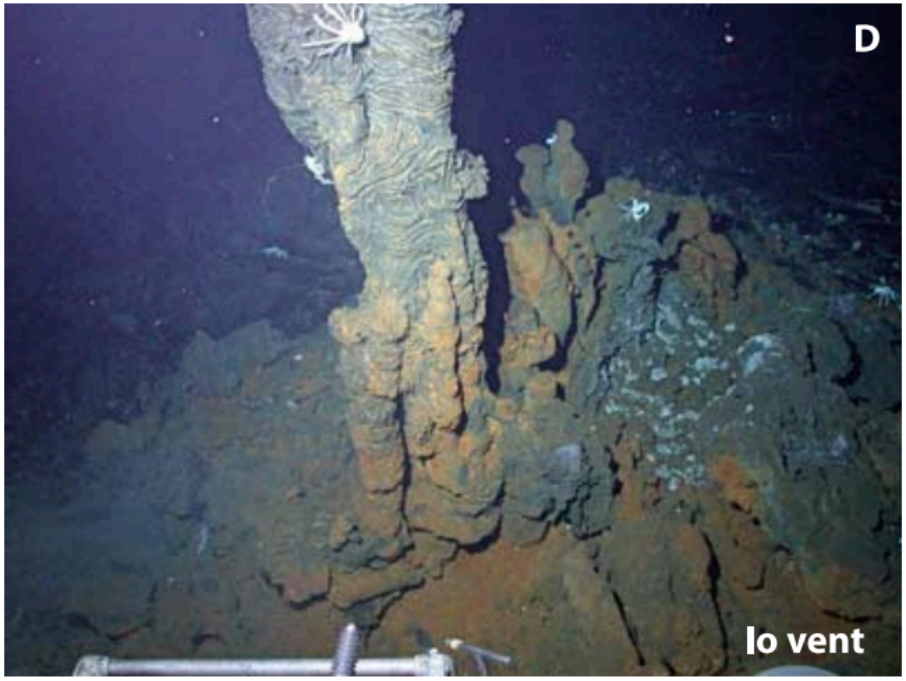
Standish et al., 2008

Major element geochemical analyses

PetDB: The Petrological Database

IEDA hosts diverse data

- Derived Geophysical Data
- Analytical geochemistry data
- Geochronological data
- Sample metadata
- Seismic Reflection Data
- **Photos and images**



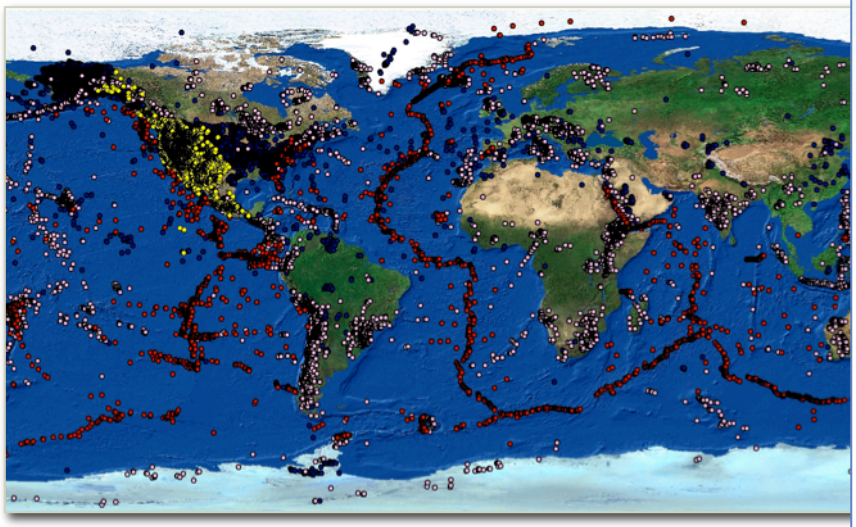
Soule et al., 2008

Web galleries for images, videos, maps, photos

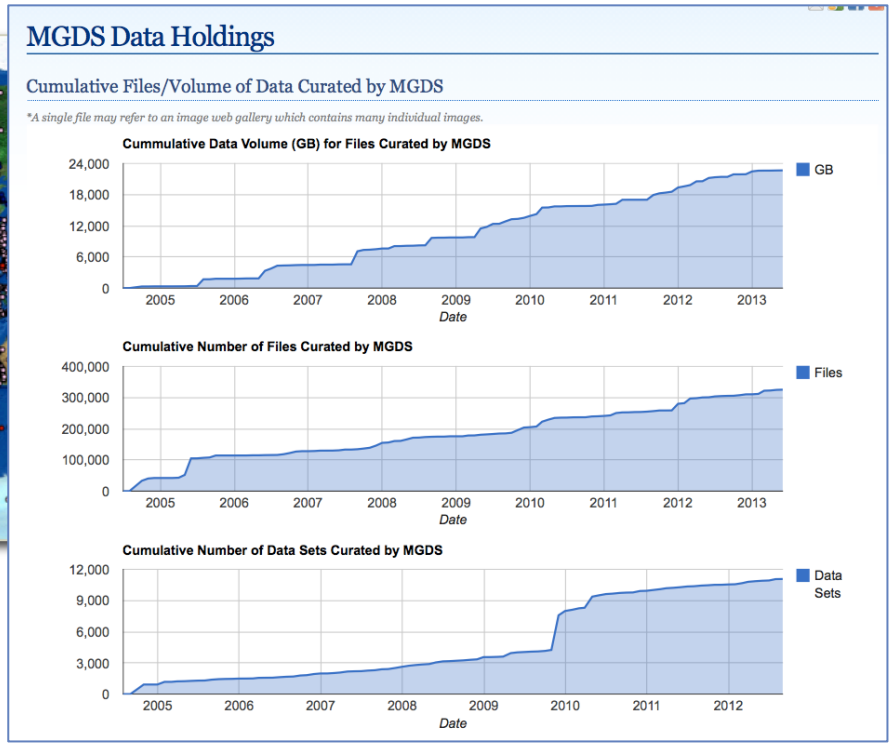
MGDS and IEDA MediaBank

IEDA Data Holdings

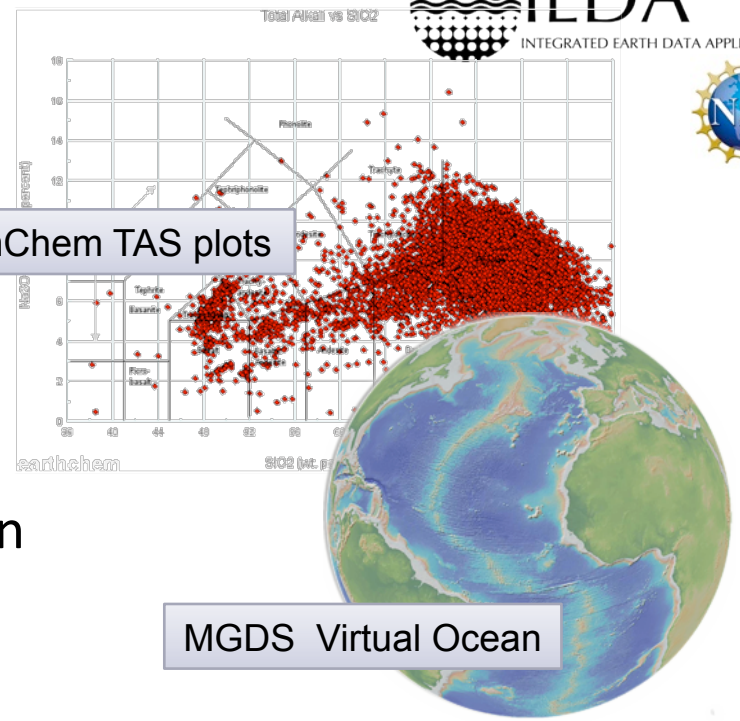
- nearly 24 terabytes, >320,000 files in **MGDS**
- 19 million geochemical values from 36,000 publications accessible at **EarthChem**
- ca. 3.8 million samples registered in **SESAR**



EarthChem Portal sample locations



IEDA Systems



Repositories & registries

- Marine Geoscience Data System
- EarthChem Library
- System for Earth Sample Registration

Data syntheses & products

- GMRT, PetDB, SedDB, Geochron

Software tools for data discovery, access, visualization and analysis

- GeoMapApp, Virtual Ocean, EarthChem

Portals to complementary data held in other repositories

- ASP, EarthChem, USAP-DCC

IEDA Foci

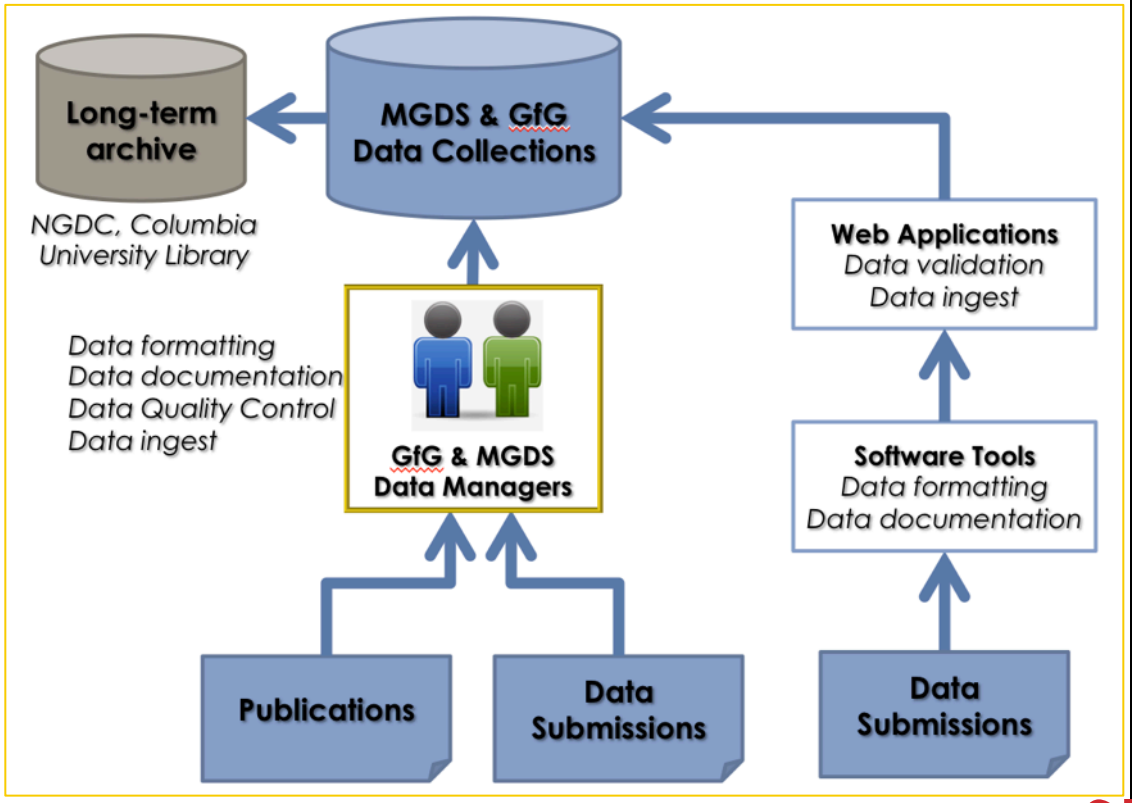
Data Preservation & Curation

- QA/QC, documentation
- Persistent identification (DOI)
- Long-term archiving

Data Discovery & Access

Data Analysis

Investigator Support

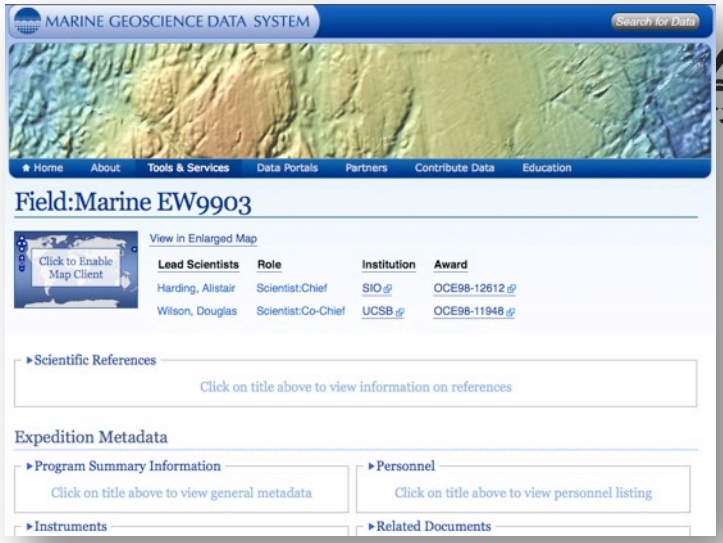


IEDA Foci

IEDA
INTEGRATED EARTH DATA APPLICATIONS

NSF

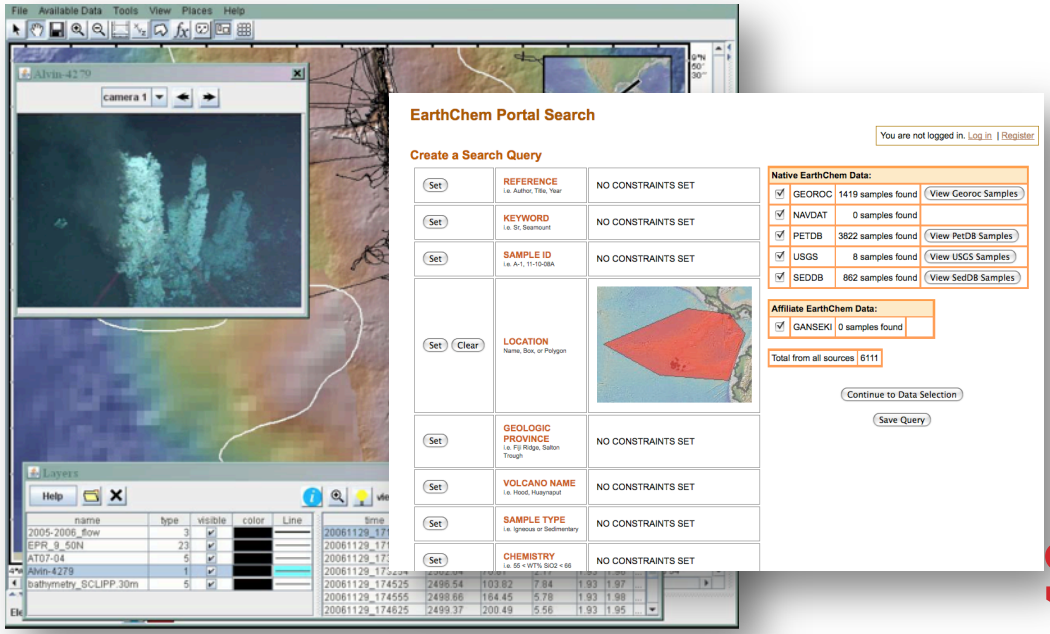
Data Preservation & Curation



Data Discovery & Access

- Web-based User interfaces
- Programmatic access interfaces
- GeoMapApp, GoogleEarth, etc.
- Links to the literature

Data Analysis



Investigator Support

IEDA Foci

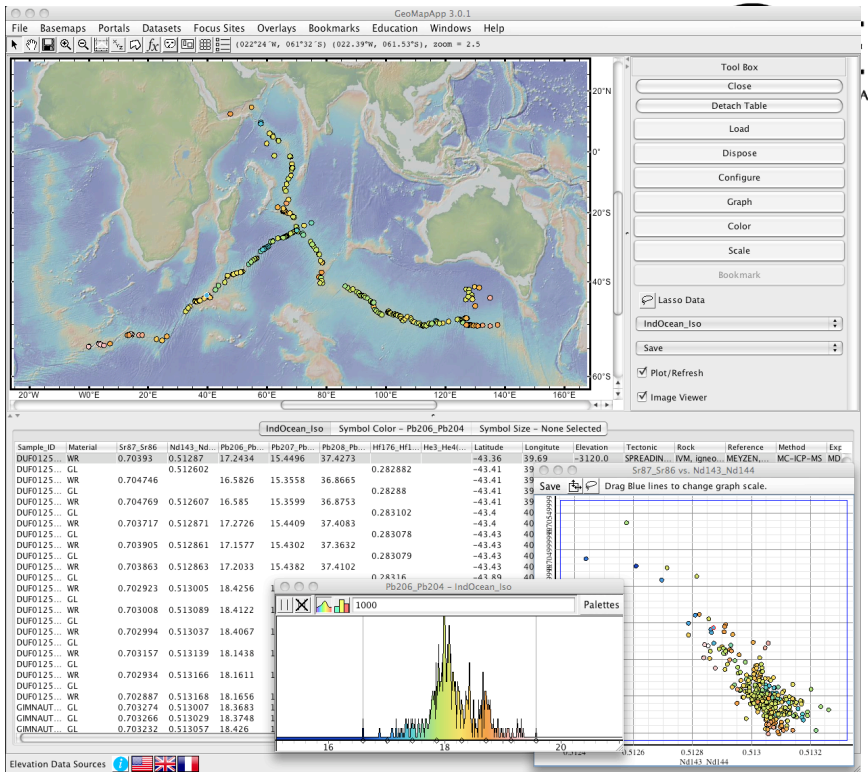
Data Preservation & Curation

Data Discovery & Access

Data Analysis

- Visualization tools (GeoMapApp, Virtual Ocean, Earth Observer)
- Syntheses & Products

Investigator Support



IEDA Foci

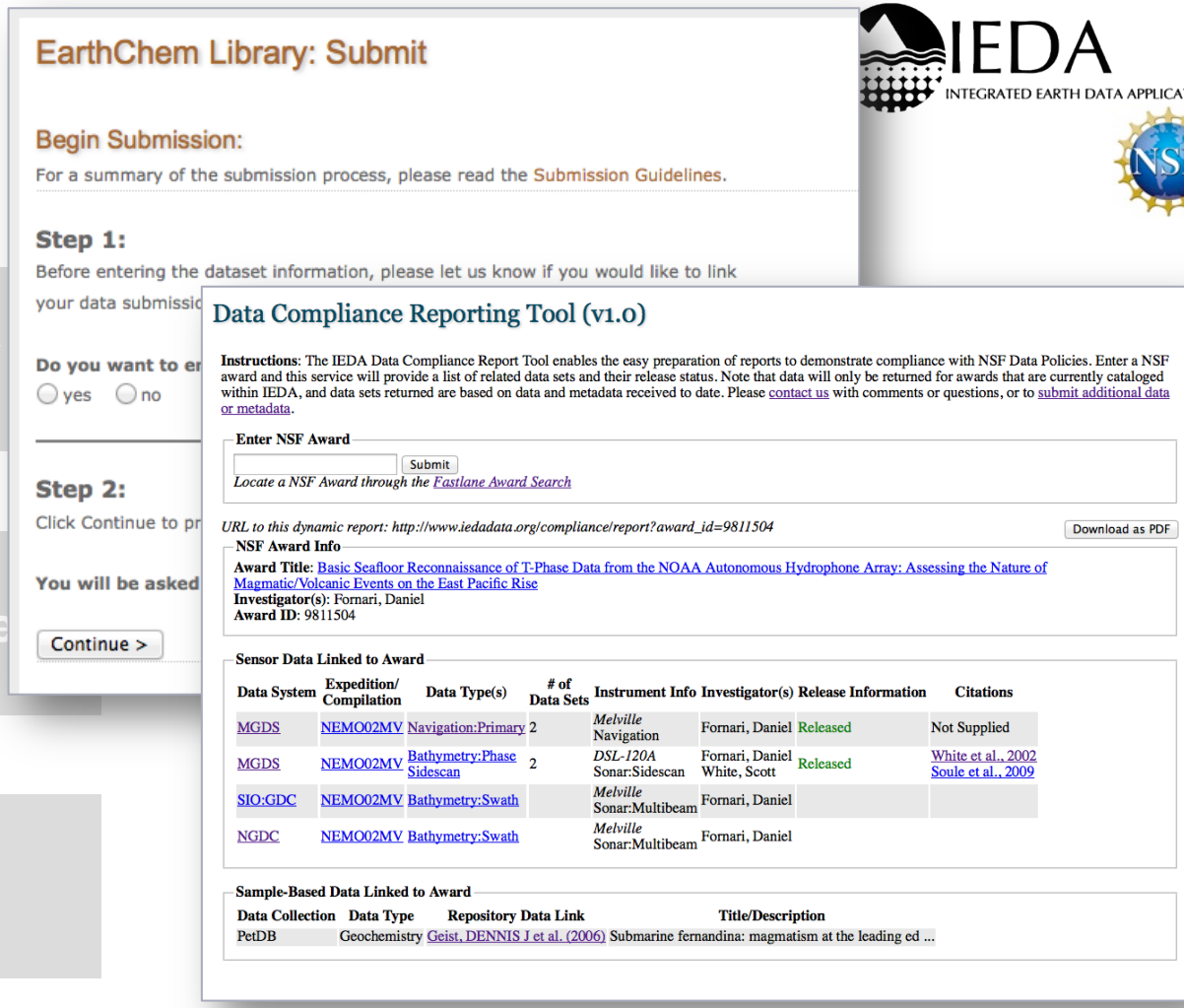
IEDA
INTEGRATED EARTH DATA APPLICATIONS

NSF

Data Preservation & Curation

Data Discovery & Acce

Data Analysis



EarthChem Library: Submit

Begin Submission:

For a summary of the submission process, please read the Submission Guidelines.

Step 1:

Before entering the dataset information, please let us know if you would like to link your data submissio

Do you want to er

yes no

Step 2:

Click Continue to pr

You will be asked

Continue >

Data Compliance Reporting Tool (v1.0)

Instructions: The IEDA Data Compliance Report Tool enables the easy preparation of reports to demonstrate compliance with NSF Data Policies. Enter a NSF award and this service will provide a list of related data sets and their release status. Note that data will only be returned for awards that are currently cataloged within IEDA, and data sets returned are based on data and metadata received to date. Please contact us with comments or questions, or to submit additional data or metadata.

Enter NSF Award

Submit

Locate a NSF Award through the Fastlane Award Search

URL to this dynamic report: http://www.iedadata.org/compliance/report?award_id=9811504

Download as PDF

NSF Award Info

Award Title: Basic Seafloor Reconnaissance of T-Phase Data from the NOAA Autonomous Hydrophone Array: Assessing the Nature of Magmatic/Volcanic Events on the East Pacific Rise
Investigator(s): Fornari, Daniel
Award ID: 9811504

Sensor Data Linked to Award

Data System	Expedition/ Compilation	Data Type(s)	# of Data Sets	Instrument Info	Investigator(s)	Release Information	Citations
MGDS	NEMO02MV	Navigation:Primary	2	*Melville* Navigation	Fornari, Daniel	Released	Not Supplied
MGDS	NEMO02MV	Bathymetry:Phase Sidescan	2	*DSL-120A* Sonar:Sidescan	Fornari, Daniel White, Scott	Released	White et al., 2002 Soule et al., 2009
SIO:GDC	NEMO02MV	Bathymetry:Swath		*Melville* Sonar:Multibeam	Fornari, Daniel		
NGDC	NEMO02MV	Bathymetry:Swath		*Melville* Sonar:Multibeam	Fornari, Daniel		

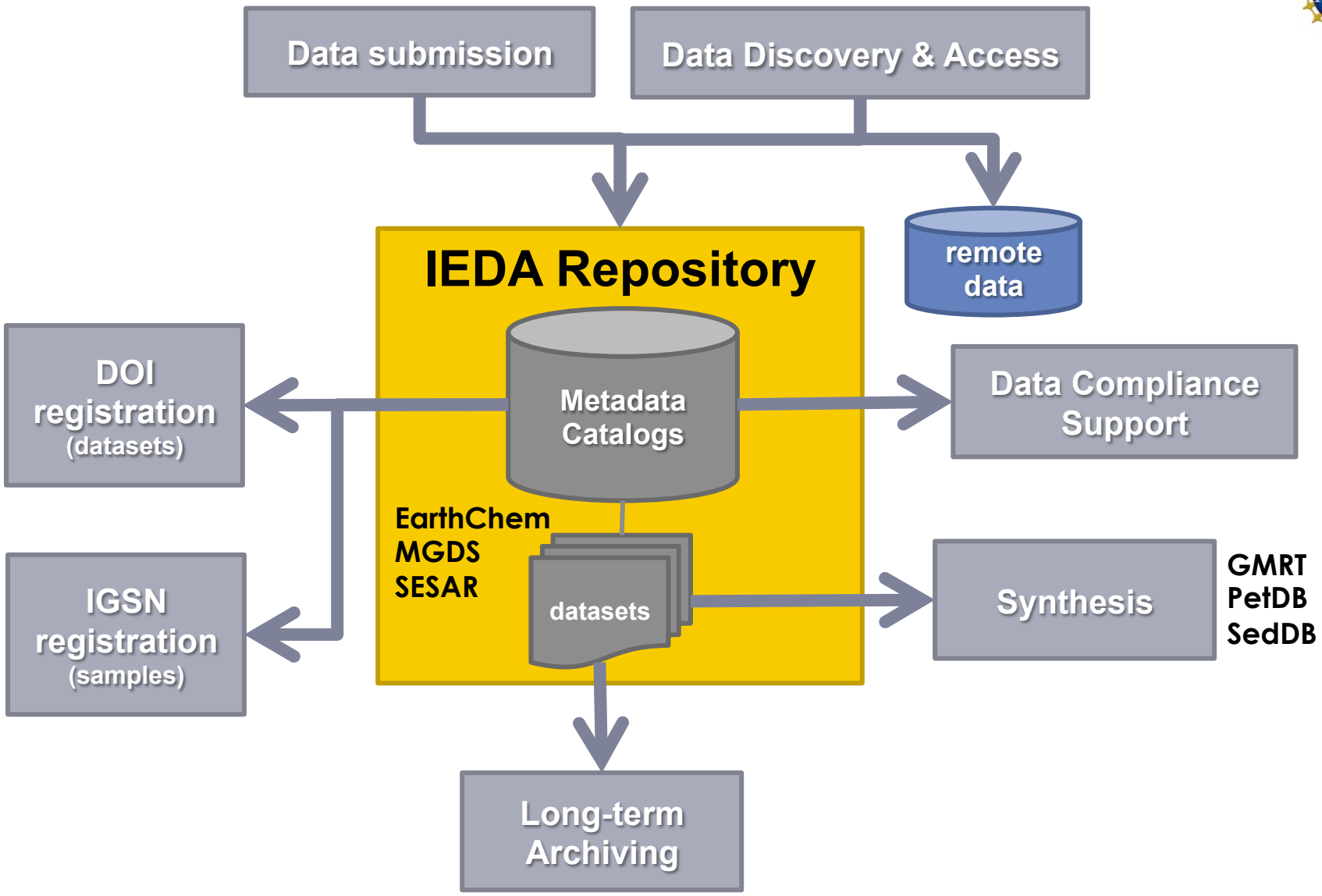
Sample-Based Data Linked to Award

Data Collection	Data Type	Repository Data Link	Title/Description
PetDB	Geochemistry	Geist, DENNIS J et al. (2006)	Submarine fernandina: magmatism at the leading ed ...

Investigator Support

- Web-based data submission
- Data Management Plan tool
- Data Compliance Report tool
- Community

IEDA Services & Architecture



IEDA needs persistent identifiers

Persistent identifiers help IEDA achieve greater…

- **Accessibility**: by navigating diverse but related data in the IEDA systems
- **Reliability**: by maintaining links between IEDA and outside systems that persist through time
- **Citability**: by enabling proper attribution to research with long-lived, citable, identifiers

What objects need to be identified?

IDs assigned by IEDA

- People
- Samples
- Datasets / Datafiles / Software
- Cruises/Expeditions

Externally assigned IDs, used in IEDA systems

- Publications
- Funding Awards
- Platforms
- Cruises
- Organization IDs
- Country, State, Language codes

What identifiers are used?

IDs assigned by IEDA

- People
- Samples ← **IGSN**
- Datasets / Datafiles / Software ← **DOI (DataCite)**
- Cruises/Expeditions

Externally assigned IDs, used in IEDA systems

- People ← **ORCID *(coming soon)***
- Publications ← **DOI (Publishers)**
- Funding Awards ← **NSF Award Numbers**
- Platforms ← **ICES Platform Code**
- Cruises ← **R2R Cruise ID**
- Organizations ← **IANA**
- Country, State, Language ← **ISO codes**

DOI: Digital Object Identifier

"DOI system provides a technical and social infrastructure for the registration and use of persistent interoperable identifiers for use on digital networks. The DOI system implements the Handle System and the indecs Framework."

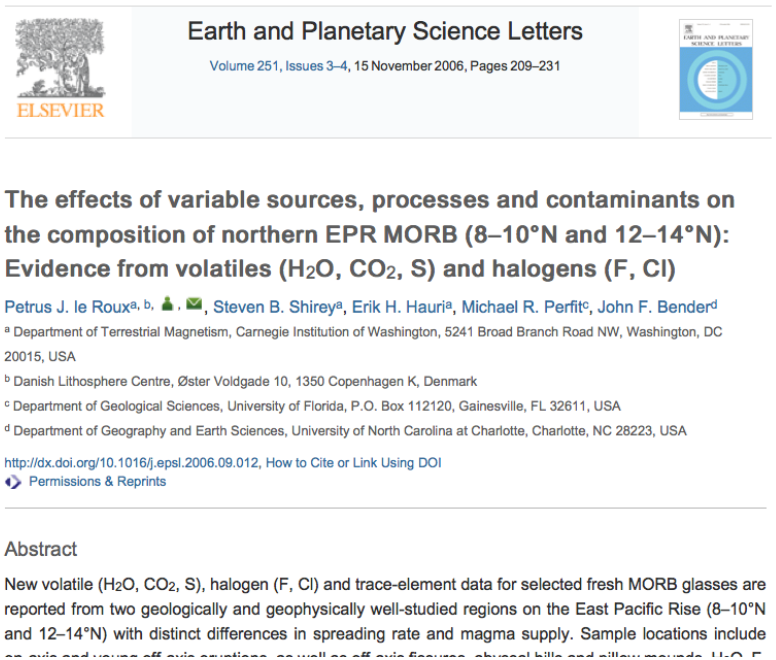
Registration Agency	Examples
CrossRef	View DOI names in the context of references to scientific and technical journal articles, and book chapters: • **Journal Article:** "Quantum tomography: Measured measurement", Markus Aspelmeyer, *nature physics* January 2009, Volume 5, No 1, pp11-12; [doi:10.10.1038/nphys1170] • **Book Chapter:** Held, Gilbert. Internetworking LANs and WANs (Second Edition), John Wiley & Sons, 1998, Published Online 05 Oct 2001. Chapter 1, Network Concepts (p 1-30) [doi:10.1002/0470841559.ch1]
DataCite	DOI names for accessing registered research datasets: Sets & Subsets: • Irino, T; Tada, R (2009): Chemical and mineral compositions of sediments from ODP Site 127-797. *Geological Institute, University of Tokyo*. [doi:10.1594/PANGAEA.726855] Earthquake Event, Authored by Automated System: • Geofon operator (2009): GEOFON event gfz2009kciu (NW Balkan Region) *GeoForschungsZentrum Potsdam(GFZ)*. [doi:10.1594/GFZ.GEOFON.gfz2009kciu]

www.doi.org

Publication DOIs

10.1016/j.epsl.2006.09.012

Externally assigned publication DOIs are used to link to the electronic article and capture IEDA data related to a published article



ELSEVIER

Earth and Planetary Science Letters

Volume 251, Issues 3–4, 15 November 2006, Pages 209–231

The effects of variable sources, processes and contaminants on the composition of northern EPR MORB (8–10°N and 12–14°N): Evidence from volatiles (H_2O, CO_2, S) and halogens (F, Cl)

Petrus J. le Roux[a, b], Steven B. Shirey[a], Erik H. Hauri[a], Michael R. Perfit[c], John F. Bender[d]

[a] Department of Terrestrial Magnetism, Carnegie Institution of Washington, 5241 Broad Branch Road NW, Washington, DC 20015, USA

[b] Danish Lithosphere Centre, Øster Voldgade 10, 1350 Copenhagen K, Denmark

[c] Department of Geological Sciences, University of Florida, P.O. Box 112120, Gainesville, FL 32611, USA

[d] Department of Geography and Earth Sciences, University of North Carolina at Charlotte, Charlotte, NC 28223, USA

http://dx.doi.org/10.1016/j.epsl.2006.09.012, How to Cite or Link Using DOI

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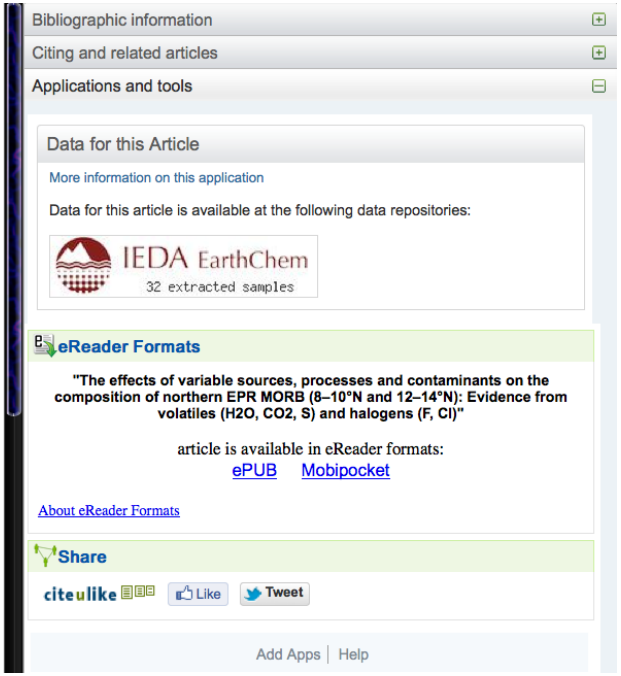
Abstract

New volatile (H_2O, CO_2, S), halogen (F, Cl) and trace-element data for selected fresh MORB glasses are reported from two geologically and geophysically well-studied regions on the East Pacific Rise (8–10°N and 12–14°N) with distinct differences in spreading rate and magma supply. Sample locations include



Bibliographic information

Citing and related articles

Applications and tools

Data for this Article

More information on this application

Data for this article is available at the following data repositories:

IEDA EarthChem

32 extracted samples

eReader Formats

"The effects of variable sources, processes and contaminants on the composition of northern EPR MORB (8–10°N and 12–14°N): Evidence from volatiles (H2O, CO2, S) and halogens (F, Cl)"

article is available in eReader formats:

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About eReader Formats

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Linking Data & Publications

EarthChem 'Landing Page'

Article

DOI:	10.1016/j.epsl.2006.09.012
Title:	THE EFFECTS OF VARIABLE SOURCES, PROCESSES AND CONTAMINANTS ON THE COMPOSITION OF NORTHERN EPR MORB (8-10 DEG N AND 12-14 DEG N): EVIDENCE FROM VOLATILES (H2O, CO2, S) AND HALOGENS (F, Cl)
Journal:	EARTH PLANET SCI LETT
Author:	LE ROUX, P J; PERFIT, M R; BENDER, JOHN F; SHIREY, S B; HAURI, E H
Pub. Year:	2006

Sample Locations:

Click to Enlarge

Data for this article

Records:	32
Source Database(s):	PETDB
Data @ EarthChem Portal:	Download Data

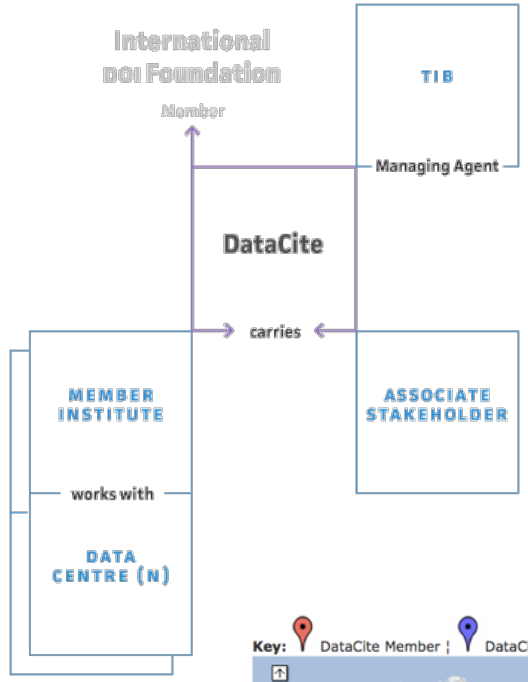
SAMPLE ID	SOURCE	DETAIL	LATITUDE	LONGITUDE	LOC PREC	MIN AGE	AGE	MAX AGE	MATERIAL	TYPE	COMPOSITION	ROCK NAME
ALV2490-003	PETDB	DETAILS	9.53	-104.25	0.02				GLASS	VOLCANIC	MAFIC	BASALT
ALV2489-005	PETDB	DETAILS	9.53	-104.22	0.02				GLASS	VOLCANIC	MAFIC	BASALT
ALV2489-002	PETDB	DETAILS	9.53	-104.23	0.02				GLASS	VOLCANIC	MAFIC	BASALT
ALV2490-010	PETDB	DETAILS	9.53	-104.26	0.02				GLASS	VOLCANIC	MAFIC	BASALT
ALV2759-005	PETDB	DETAILS	9.82	-104.31	0.02				GLASS	VOLCANIC	MAFIC	BASALT
ALV2390-005	PETDB	DETAILS	8.293	-104.023	0.001				GLASS	VOLCANIC	MAFIC	BASALT
ALV2768-006	PETDB	DETAILS	9.8333	-104.27	0.0001			1	GLASS	VOLCANIC	MAFIC	BASALT
ALV2768-004	PETDB	DETAILS	9.8333	-104.26	0.0001			1	GLASS	VOLCANIC	MAFIC	BASALT

Data DOI

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

Helping you to find, access, and reuse data

Data DOIs

10.1594/IEDA/100041

Data DOIs are assigned to digital resources (datasets, technical reports, and software) in IEDA repository

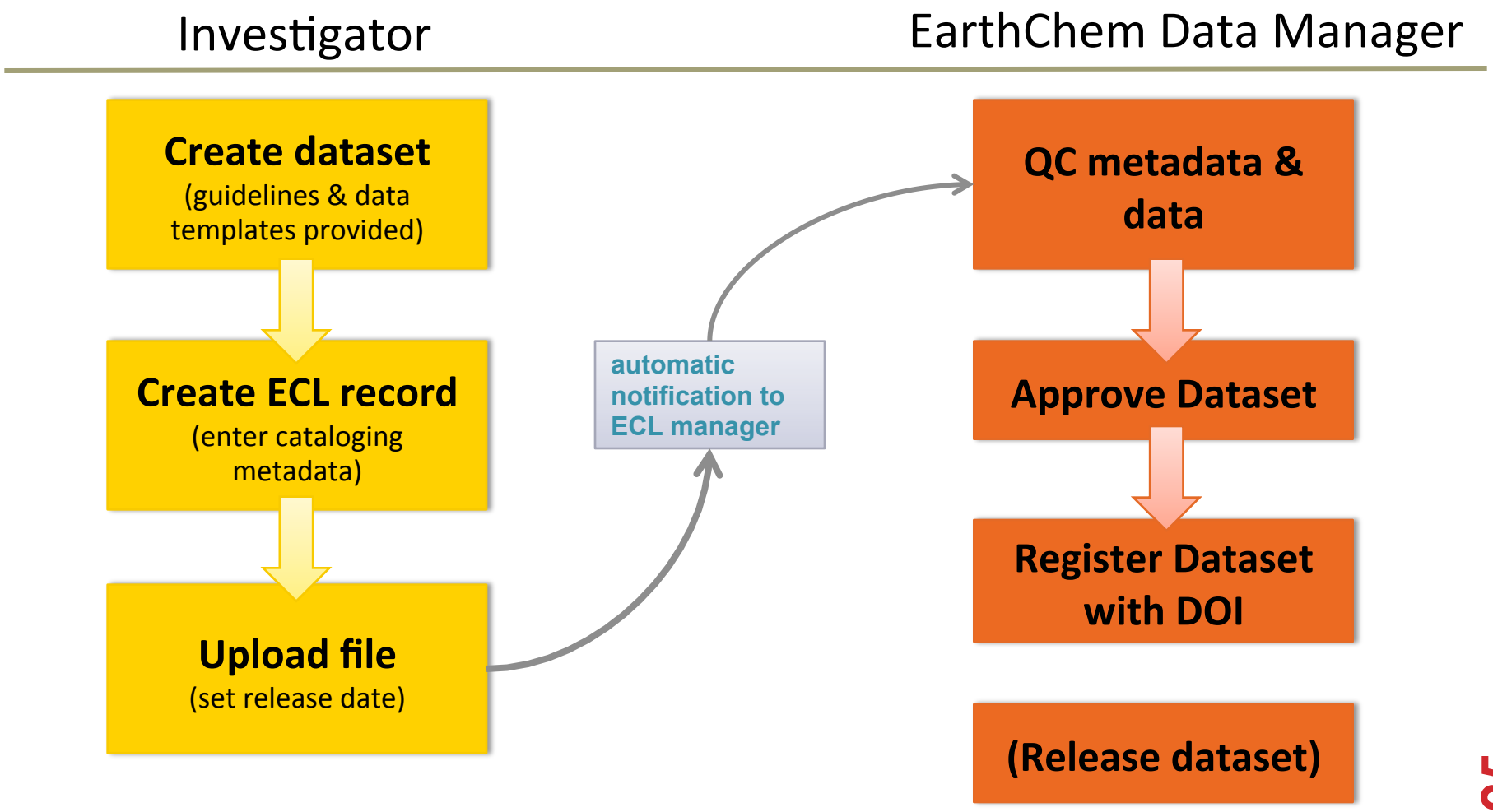
- help ensure proper attribution to the author
- provide open access
- allow versioning
- long-term archiving in Columbia University Libraries

Identifier:	10.1594/IEDA/100041
Title:	U-series geochronology at SWIR
Date Available:	2011-02-19
Creator (Lead):	Standish, Jared
Format:	application/vnd.ms-excel
Download:	ECL # 125
Data Type:	Geochemistry
IsCitedBy:	doi: 10.1038/ngeo824

TABLE 1. U-series Disequilibria and Eruptions Age Constraints

Samples*	Lat. (°S)	Long.(°E)	Distance from spreading axis (km)^	($^{234}U/^{238}U$)†	($^{230}Th/^{238}U$)‡	($^{230}Ra/^{230}Th$)†	Spreading rate ages (ky)**	U-Th-Ra age constraints (ky)††
Spreading axis lavas								
KN162-9 33-49	52.82	11.39	0.6	1.001	**1.028**	*1.321*	86	< 8
VAN7 80-04	52.23	16.01	0.5	1.000	*1.266*	n.d.	71	< 375
KN162-7 04-13	52.36	17.11	1.0	1.003	1.126	1.011	143	8< x < 375
KN162-7 10-21	52.75	19.27	0.0	*1.003*	***1.156***	1.087	0	< 8
Rift valley lavas								
KN162-9 36-27	52.75	11.71	3.8	0.998	1.083	n.d.	543	< 375
KN162-9 48-04	52.56	12.80	-10.5	0.995	***1.065***	1.056	1500	< 8
KN162-9 56-88	52.37	13.51	-4.1	1.002	**1.048**	1.103	586	< 8
KN162-9 61-71	52.10	14.60	9.5	1.001	***0.960***	*1.413*	1357	< 8
VAN7 89-02	52.25	14.60	-5.8	1.000	*0.994*	0.993	829	> 375
KN162-7 02-01	52.33	16.23	-2.5	*1.001*	*1.017*	0.998	357	> 375
KN162-7 15-05	52.92	20.38	-4.1	1.000	1.088	0.990	586	8< x < 375
KN162-7 25-03	53.17	23.12	-2.0	*0.996*	1.029	1.011	286	8< x ≤ 375
Rock Standards								
A-ThO	n.a.	n.a.		*1.004*	*1.115*	*1.007*	-	-
						0.991		
Accepted Value ‡				1.000 (0.002)	1.112 (0.009)	1		
TML	n.a.	n.a.		*1.000*	*0.999*	*0.990*	-	-
						1.001		
Accepted Value				1.000 (0.002)	0.999 (0.007)	1		

EarthChem Library Data Publication



QC/Review by Data Managers

development of metadata for new data sets

- extract from publications
- extract from secondary literature
- contact authors

continued development of metadata schemas and vocabularies to align with evolving community standards

ongoing evaluation to ensure completeness of metadata for existing data holdings

data verification ensuring that data files are readable

Samples: IGSN

International Geo Sample Number

MGD000973

Provides persistent unique identification for physical samples

- URN type syntax
- centralized registration via international governance organization IGSN e.V. (DataCite model)

Ensure access to 'virtual representations' of samples

- standardized 'core' metadata profiles (ISO19115, GeoSciML)
- extended metadata profiles at allocating agents (community specific)

IGSN e.V.

IGSN: GEE000012

IGSN:	GEE000012
Sample Name:	hp038a
Other Name(s):	
Sample Type:	Oriented Core
Parent IGSN:	Not Provided

IGSN Attributes

persistent

resolvable (via handle service)

broad application

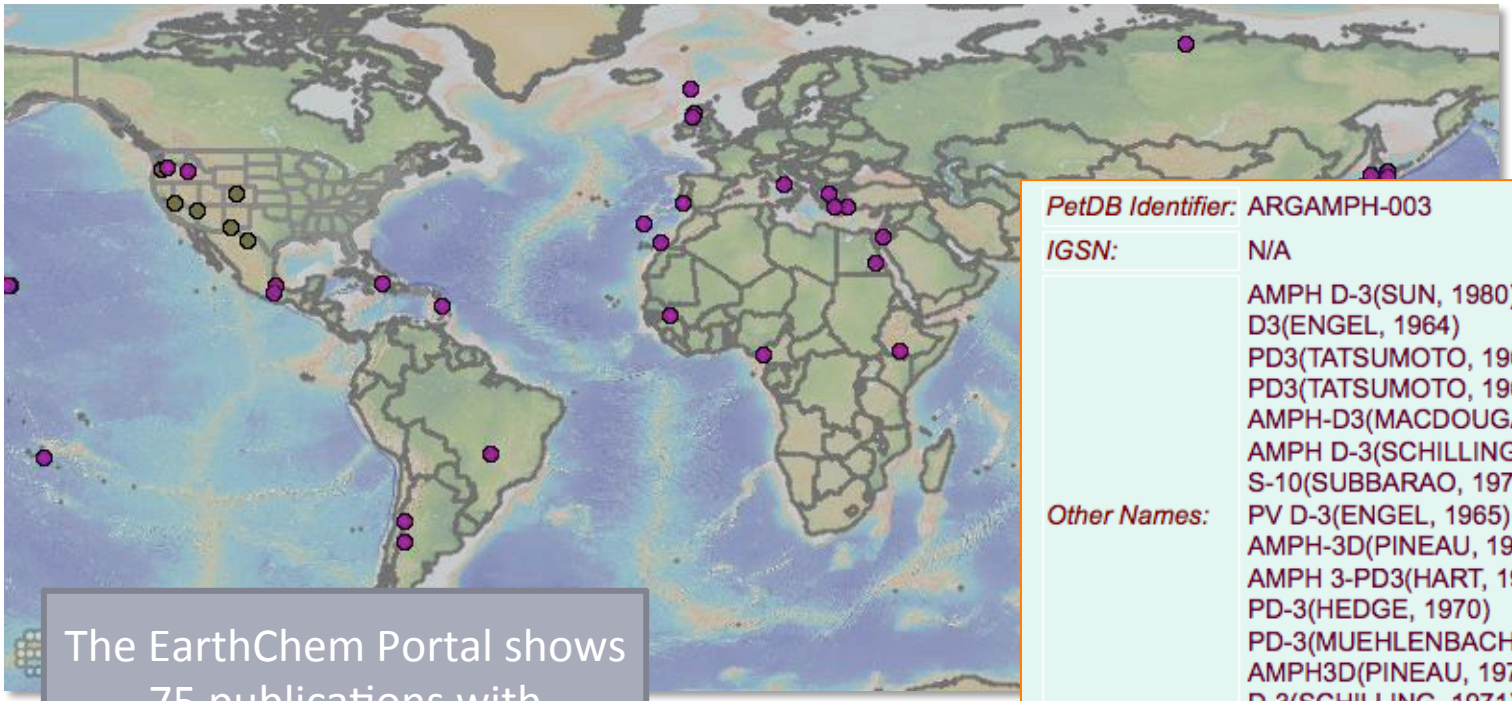
compliant with international standards

internationally governed

does not replace personal or institutional naming protocols

tracks sample geneologies

Need for Unique Sample Identifiers



The EarthChem Portal shows 75 publications with geochemical data referenced to a sample with the name M1 (or M-1). (www.earthchem.org)

PetDB Identifier:	ARGAMPH-003
IGSN:	N/A
Other Names:	AMPH D-3(SUN, 1980) D3(ENGEL, 1964) PD3(TATSUMOTO, 1965) PD3(TATSUMOTO, 1966) AMPH-D3(MACDOUGALL, 1986) AMPH D-3(SCHILLING, 1975) S-10(SUBBARAO, 1972) PV D-3(ENGEL, 1965) AMPH-3D(PINEAU, 1983) AMPH 3-PD3(HART, 1971) PD-3(HEDGE, 1970) PD-3(MUEHLENBACH, 1972) AMPH3D(PINEAU, 1976) D-3(SCHILLING, 1971) D-3(SCHEIDEGGER, 1981)

Names of dredge sample 3 of the Amphitrite cruise (PetDB database, www.petdb.org)

IGSN Metadata Profile

User submitted metadata

QC by IGSN Allocating Agent

Access via IGSN handle or UI search

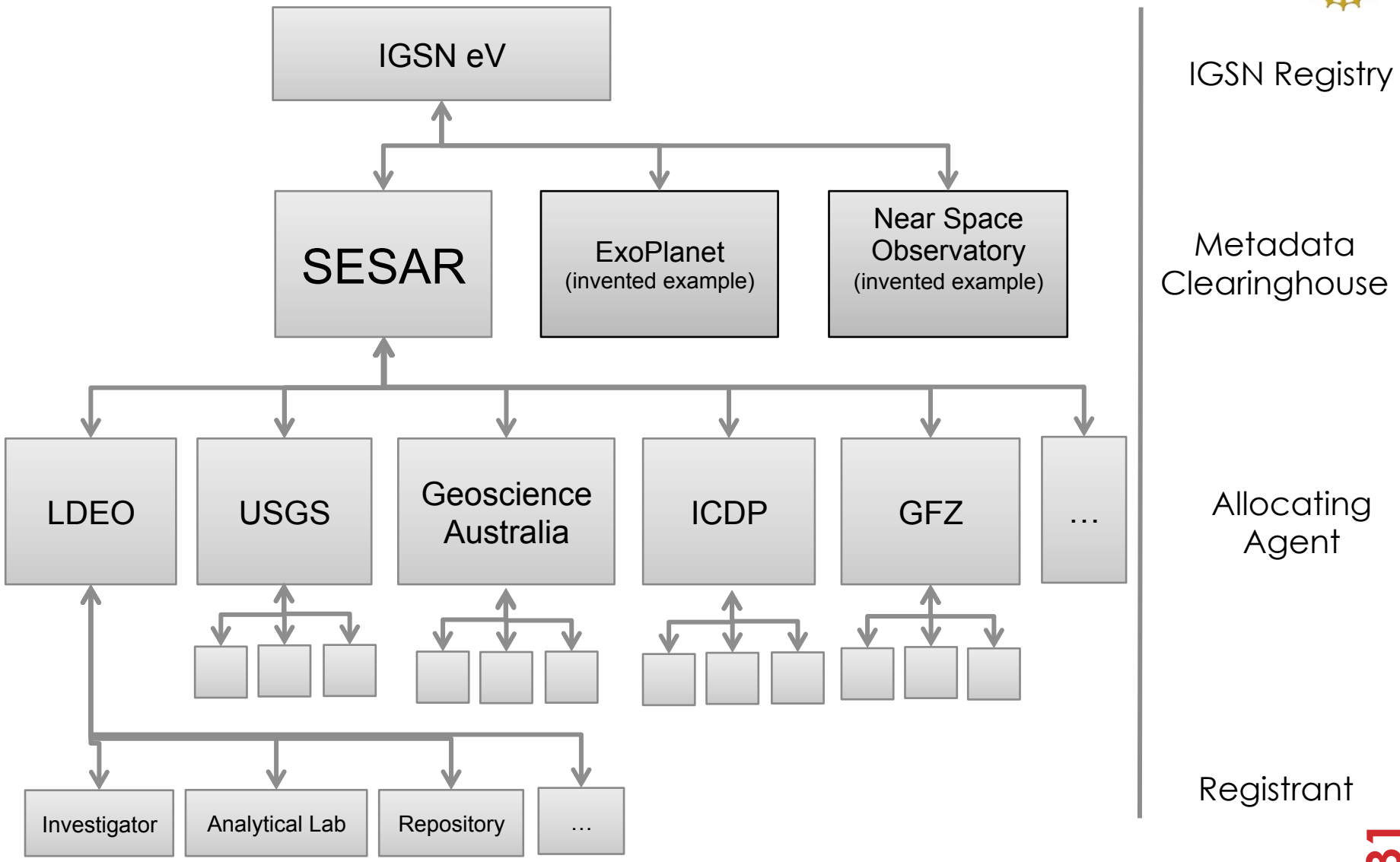
QR code with URL

Long-term preserved

IGSN:	GMY00007W
Sample Name:	TN182_47_002
Other Name(s):	
Sample Type:	Individual Sample
Parent IGSN:	GMY00001B

Description	
Material:	Rock
Classification:	Igneous>Plutonic>Mafic
Field Name:	gabbro, hornblende gabbro
Description:	mafic plutonic rock
Age (min):	2 Ma
Age (max):	50 Ma
Collection Method:	Dredging
Collection Method Description:	Not Provided
Size:	0.5 kg
Geological Age:	Cenozoic
Geological Unit:	Not Provided
Comment:	Not Provided
Purpose:	Not Provided
Geolocation	
Latitude:	51.6298
Longitude:	179.8611
Elevation:	-1460
Nav Type:	Not Provided
Physiographic Feature:	fault scarp
Name Of Physiographic Feature:	Sunday Basin
Location Description:	north wall of Sunday Basin depression

A Scalable IGSN Architecture

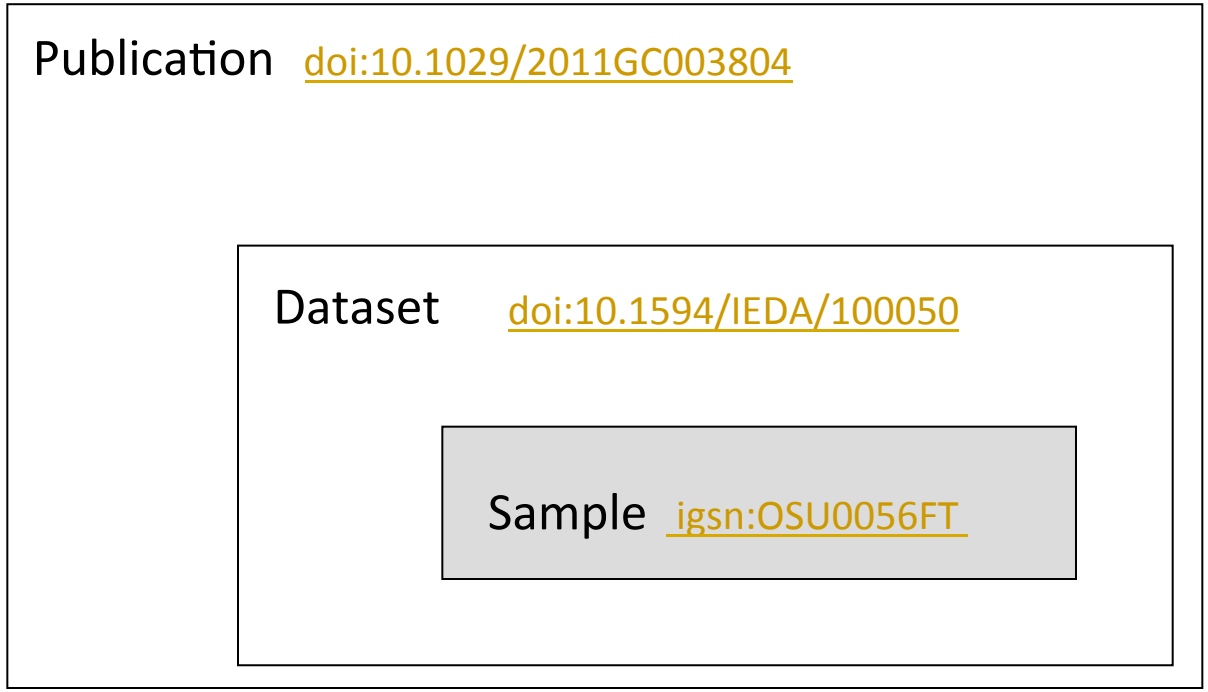


IGSN Applications

Unambiguously cite physical samples (link to data and publications).

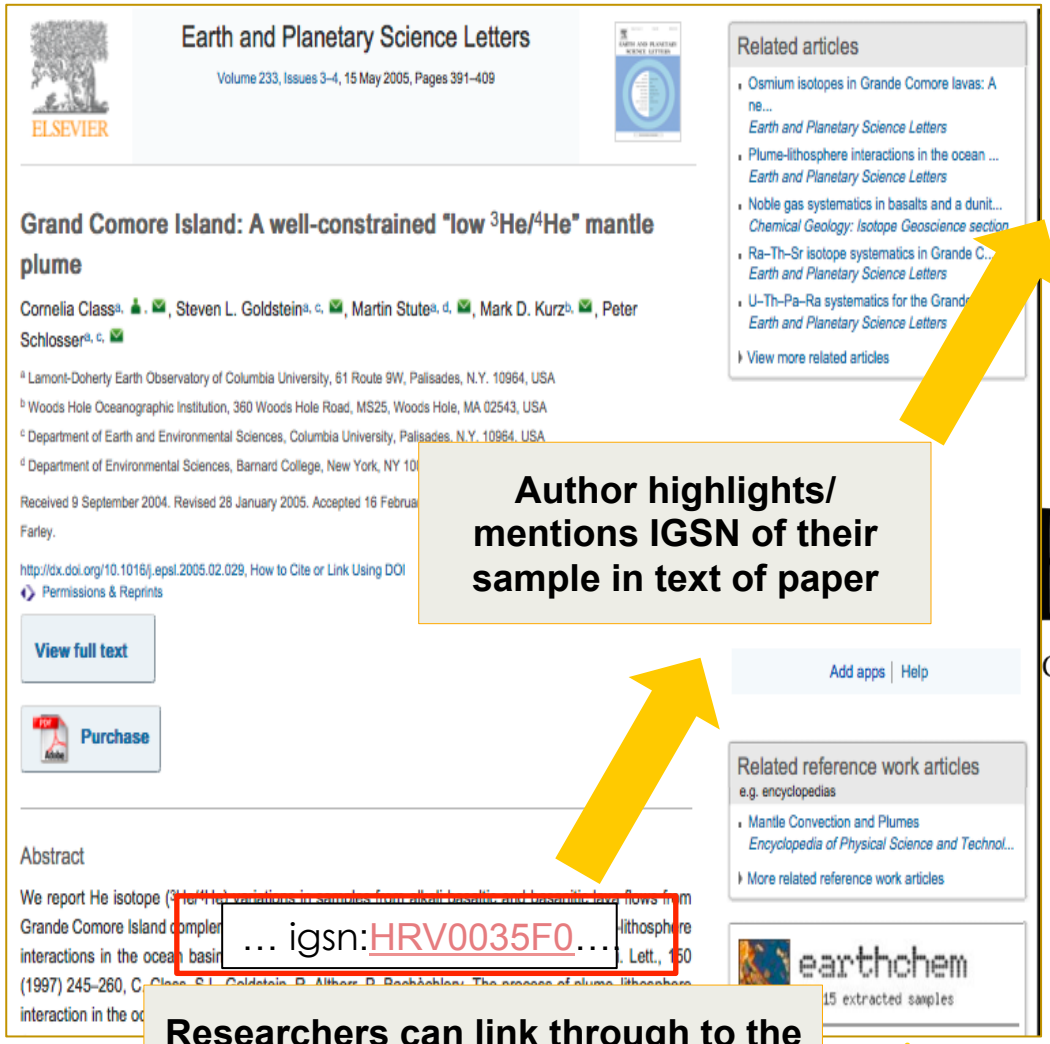
Find, link, & integrate distributed data for a single sample

Build a catalog of available specimens, cores, etc. to find and access these objects and their metadata



Entity linking with SESAR through ScienceDirect

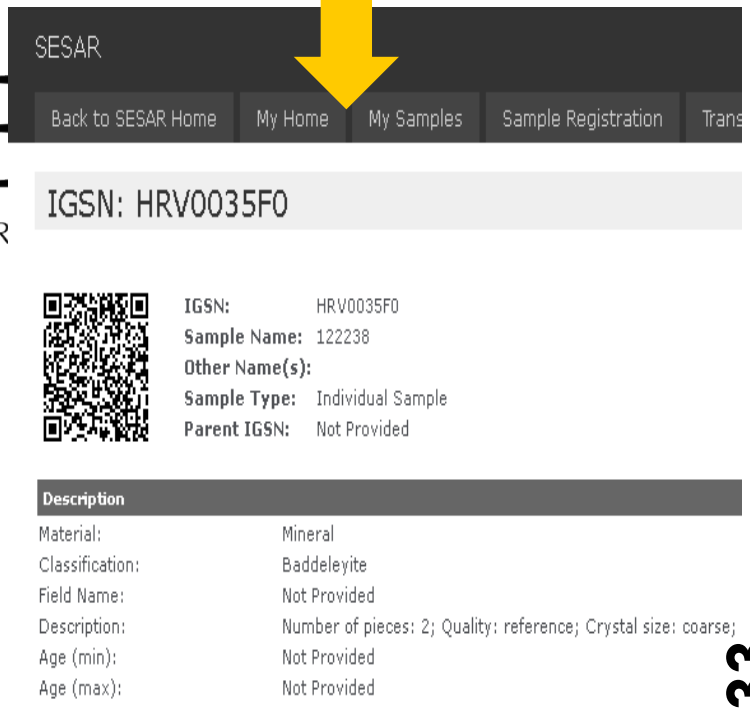
slide courtesy of Bethan Keall, Elsevier



Author highlights/ mentions IGSN of their sample in text of paper

… igsn:HRV0035F0…

Elsevier creates a text link to http://www.geosamples.org/profile?igsn:HRV0035F0

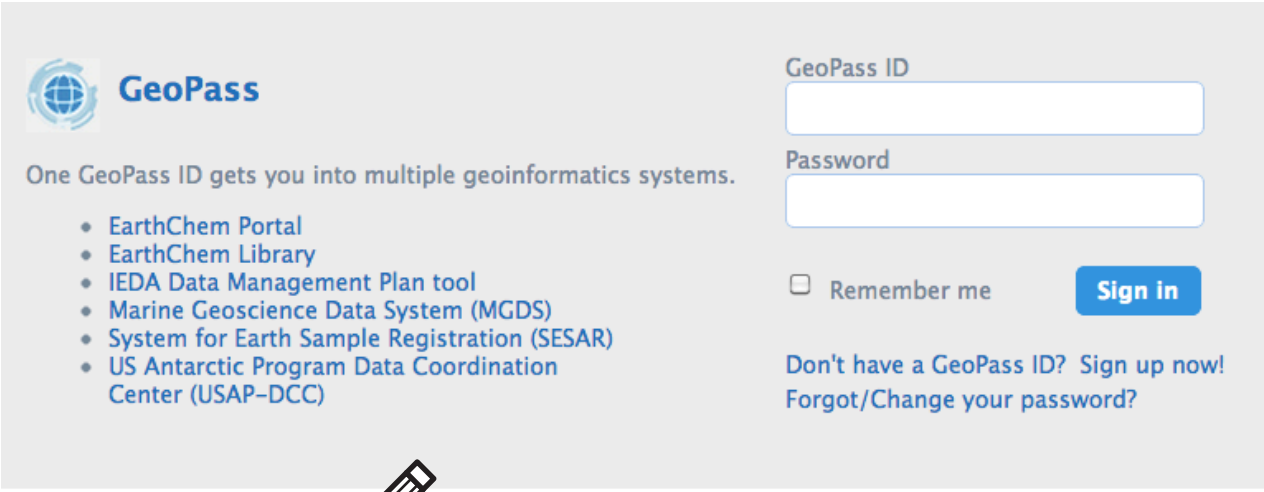


Researchers can link through to the sample at SESAR in one click – more efficient

People – GeoPass ID

148

GeoPass IDs identify users across multiple IEDA systems (single sign-on)



Log in allows saved content:

- data management plans
- database search results
- sample metadata profiles
- submitted content

Coming Soon: ORCID IDs

IEDA
INTEGRATED EARTH DATA APPLICATIONS

NSF

- registry of unique researcher identifiers
- transparent method of linking research activities and outputs to these identifiers
- ability to reach across disciplines, research sectors, and national boundaries
- open, non-profit, community-based effort
- cooperation with other identifier systems

ORCID
Connecting Research and Researchers

DISTINGUISH YOURSELF IN THREE EASY STEPS

ORCID provides a persistent digital identifier that distinguishes you from every other researcher and, through integration in key research workflows such as manuscript and g submission, supports automated linkages between you and your professional activities ensuring that your work is recognized. Find out more.

1 REGISTER Get your unique ORCID identifier Register now! Registration takes 30 seconds.

2 ADD YOUR INFO Enhance your ORCID record with your professional information and link to your other identifiers (such as Scopus or ResearcherID or LinkedIn).

3 USE YOUR ORCID ID Include your ORCID identifier on your Webpage, when you submit publications, apply for grants, and in any research workflow to ensure you get credit for your work.

Cruises & Expeditions

AT15-17

Cruise IDs group and link documents, sensor data, sample data, and information across IEDA.

- Cruise personnel and instruments
- Geologic interpretation
- Photographs
- Bathymetry
- Pressure and Temperature
- Magnetic
- Navigation
- Seismic
- Photographs
- Samples
- Fluid Geochemistry

R2R Cruise IDs

Rolling Deck to Repository (R2R)

Home | About R2R | Cruise Catalog | News | Contact Us | Internal

Catalog Status

(In Service) Vessels: 25

Cruises: 3188

Archived Files: 13565432

May 7, 2013

Search

Search

Home » About R2R

Controlled Vocabularies

- Activity Type
- Country *(ISO)*
- Cruise Type *(UNOLS)*
- Cruise
- Device Type
- Device Model
- Facility
- Fileformat
- Fileset Type
- Gazetteer - Exclusive Economic Zone *(VLIZ)*
- Gazetteer - Sea Area *(IHO)*
- Gazetteer - Undersea Feature Name *(IHO)*
- Language *(ISO)*
- Location Type
- Media Type
- Organization *(IANA)*
- Person
- Port *(UNOLS)*
- Processing Level *(CODMAC)*
- Program
- Role Type
- Sample Type *(USGS)*
- State *(FIPS)*
- Vessel *(ICES)*

Home » About R2R » Controlled Vocabularies

Vocabulary - Cruise

(authority=R2R)

Vessel	Cruise ID	Start Date	Start Port	End Date	End Port
Alpha Helix	*HX293*	2004-12-01	Seward	2004-12-09	Seward
Alpha Helix	*HX292*	2004-09-30	Seward	2004-10-08	Seward
Alpha Helix	*HX291*	2004-09-06	Seward	2004-09-10	Seward
Alpha Helix	*HX290*	2004-08-29	Nome	2004-09-06	Nome
Alpha Helix	*HX289*	2004-08-24	Nome	2004-08-28	Nome
Alpha Helix	*HX288*	2004-07-23	Seward	2004-08-20	Nome
Alpha Helix	*HX287*	2004-07-08	Seward	2004-07-19	Seward
Alpha Helix	*HX286*	2004-06-27	Seward	2004-07-05	Seward
Alpha Helix	*HX285*	2004-06-14	Seward	2004-06-22	Seward
Alpha Helix	*HX284*	2004-05-15	Seward	2004-05-26	Seward
Alpha Helix	*HX283*	2004-05-03	Seward	2004-05-11	Seward
Alpha Helix	*HX282*	2004-04-07	Seward	2004-04-07	Seward
Alpha Helix	*HX281*	2004-03-19	Seward	2004-03-27	Seward
Alpha Helix	*HX280*	2003-12-02	Seward	2003-12-10	Seward
Alpha Helix	*HX279*	2003-10-08	Seward	2003-10-16	Seward
Alpha Helix	*HX278*	2003-09-14	Nome	2003-09-30	Seward
Alpha Helix	*HX277*	2003-08-25	Seward	2003-09-13	Nome
Alpha Helix	*HX276*	2003-08-13	Seward	2003-08-21	Seward
Alpha Helix	*HX275*	2003-07-20	Seward	2003-08-11	Seward
Alpha Helix	*HX274*	2003-06-30	Teller	2003-07-09	Seward
Alpha Helix	*HX273*	2003-06-13	Seward	2003-06-29	Teller
Alpha Helix	*HX272*	2003-05-23	Seward	2003-05-31	Seward
Alpha Helix	*HX271*	2003-04-24	Seward	2003-05-15	Seward
Alpha Helix	*HX270*	2003-04-01	Seward	2003-04-09	Seward

"The Rolling Deck to Repository (R2R) program aims to develop comprehensive fleet-wide management of underway data to ensure preservation of and access to our national oceanographic research data resources."

Platform IDs

ICES CIEM

Who we are

ICES – a global organization for enhanced ocean sustainability

ICES is a network of more than 4000 scientists from almost 300 institutes, with 1600 scientists participating in activities annually.

ICES CIEM

ICES Home | ICES Data Centre Home

SHARE

ICES Reference Codes
RECO Vocabulary v2.0

Release Date: May 7 2013 3:00AM

Select a data theme

Search by keyword

Leave blank to see all ..

> Showing all Themes

Clear Tabs

Tools & Resources | Code Types [201] | Codes [62714] | Synonyms [5035] | SHIPC [9241]

SHIPC
SeaDataNet Ship and Platform Codes

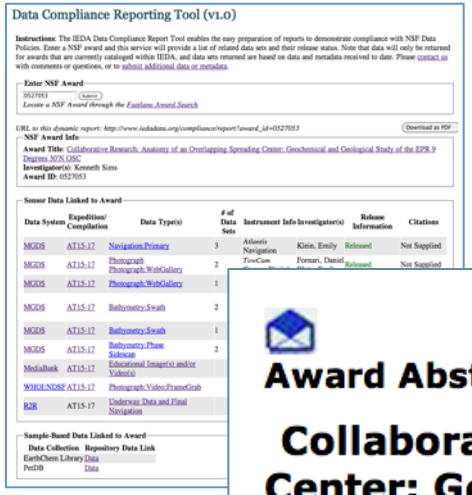
Choose Page size: 100

Code	Description	Show all CodeTypes ...	Created	Modified
0611	BERLIN	SHIPC	2006-12-21	2009-11-23
0612	NATIONAL	SHIPC	2006-12-21	2009-11-23
0613	SCHWABENLAND	SHIPC	2006-12-21	2009-12-08
0614	ANNE MARIE	SHIPC	2009-02-04	2011-08-03
061A	SEAPAC BUNKER HILL	SHIPC	2006-12-21	2006-12-21
061B	SEAPAC LEXINGTON	SHIPC	2006-12-21	2006-12-21
061C	SEAPAC PRINCETON	SHIPC	2006-12-21	2006-12-21
061D	SEAPAC CONCORD	SHIPC	2006-12-21	2006-12-21
061E	SEAPAC VALLEY FORGE	SHIPC	2006-12-21	2006-12-21
061F	CAP SAN MARCO	SHIPC	2006-12-21	2006-12-21
061G	ANNIEMARIE	SHIPC	2006-12-21	2012-02-28
061H	CAP SAN AUGUSTIN	SHIPC	2006-12-21	2006-12-21
061I	SUNNA HAV	SHIPC	2006-12-21	2006-12-21
061J	SCHLESWIG HOLSTEIN	SHIPC	2006-12-21	2006-12-21
061K	BAYERN	SHIPC	2006-12-21	2006-12-21
061L	HESSEN	SHIPC	2006-12-21	2006-12-21
061M	LUETJENS	SHIPC	2006-12-21	2006-12-21
061N	MOELDERS	SHIPC	2006-12-21	2006-12-21
061P	ROMMEL	SHIPC	2006-12-21	2006-12-21
061Q	KOELN	SHIPC	2006-12-21	2006-12-21
061R	EMDEN	SHIPC	2006-12-21	2006-12-21
061S	AUGSBURG	SHIPC	2006-12-21	2006-12-21
061T	KARLSRUHE	SHIPC	2006-12-21	2006-12-21

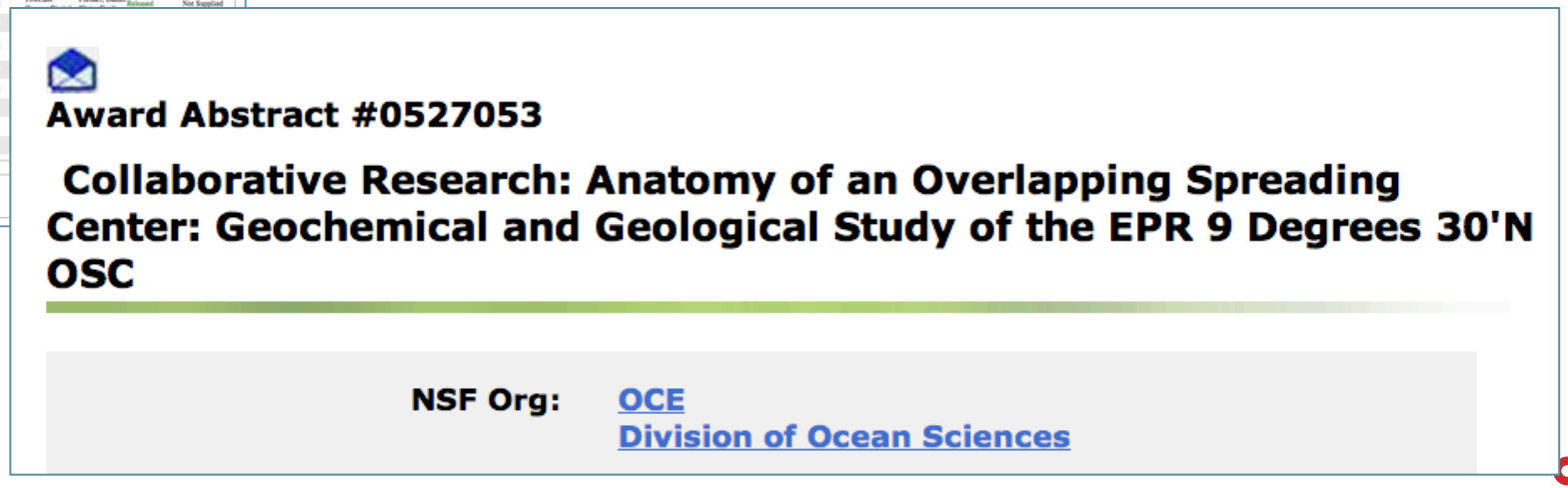
Award numbers

0527053

Award IDs in the Data Compliance Reporting Tool group all data related to a funding award, and generate a dynamic report for funding agencies.



Data Compliance Report



Award numbers

0527053

URL to this dynamic report: http://www.iedadata.org/compliance/report?award_id=0527053

Download as PDF

NSF Award Info

Award Title: Collaborative Research: Anatomy of an Overlapping Spreading Center: Geochemical and Geological Study of the EPR 9 Degrees 30'N OSC
Investigator(s): Sims, Kenneth
Award ID: 0527053

Sensor Data Linked to Award

Data System	Expedition/ Compilation	Data Type(s)	# of Data Sets	Instrument Info	Investigator(s)	Release Information	Citations
MGDS	AT15-17	Navigation:Primary	3	*Atlantis* Navigation	Klein, Emily	Released	Not Supplied
MGDS	AT15-17	Photograph Photograph:WebGallery	2	*TowCam* Camera:Digital	Fornari, Daniel Klein, Emily	Released	Not Supplied
MGDS	AT15-17	Photograph:WebGallery	1	*Jason II* Camera:Digital	Fornari, Daniel Klein, Emily	Released	Not Supplied
MGDS	AT15-17	Bathymetry:Swath	2	*Jason II* Sonar:Multibeam	Ferrini, Vicki Fornari, Daniel Soule, S.	Released	Soule et al., 2008
MGDS	AT15-17	Bathymetry:Swath	1	*DSL-120A* Sonar:Multibeam	Klein, Emily White, Scott	Released	Not Supplied
MGDS	AT15-17	Bathymetry:Phase Sidescan	2	*DSL-120A* Sonar:Sidescan	Klein, Emily White, Scott	Released	Not Supplied
MediaBank	AT15-17	Educational Image(s) and/or Video(s)		Not Applicable	Fornari, Daniel Klein, Emily		
WHOI:NDSF	AT15-17	Photograph:Video:FrameGrab		*Jason II* Camera:Video	Klein, Emily		
R2R	AT15-17	Underway Data and Final Navigation					

Sample-Based Data Linked to Award

Data Collection	Data Type	Repository Data Link	Title/Description
EarthChem Library	Geochronology	Standish, J (2011)	U-series geochronology at SWIR ...
PetDB	Geochemistry	Standish, J-J et al. (2010)	Young off-axis volcanism along the ultraslow-sprea ...

Additional Data Sets: ***Submission Status Unknown***

Expedition/ Compilation	Data Type(s)	Instrument Info	Investigator(s)	Citations
AT15-17	Backscatter:Optical Pressure Temperature	*DSL-120A* MAPR	Klein, Emily	Not Supplied
AT15-17	Backscatter:Optical Pressure Temperature	*TowCam* MAPR	Klein, Emily	Not Supplied
AT15-17	Bathymetry:Phase Sidescan	*DSL-120A* Sonar:Sidescan	White, Scott	Not Supplied

Data Compliance Report

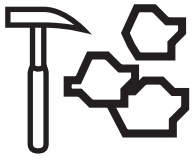
Identifier challenges and future work

Challenges

- Maintaining identifiers with growing content → needs **active management**
- Incorporating legacy identifiers → listen to **community feedback**
- Updating of content by users → allow **versioning**

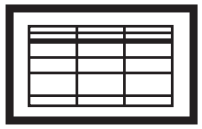
IEDA identifiers in a research workflow

3. Sample management



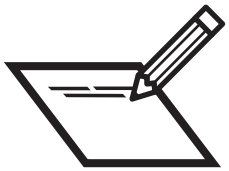
IGSN
GeoPassID

4. Dataset publication



Dataset DOI
GeoPassID

2. Data management plan



GeoPassID

5. Article publication

Publication DOI
IGSN
Dataset DOI

Researchers

GeoPassID

1. Background research

Cruise ID
Publication DOI

6. Funding agency report

NSF Award #