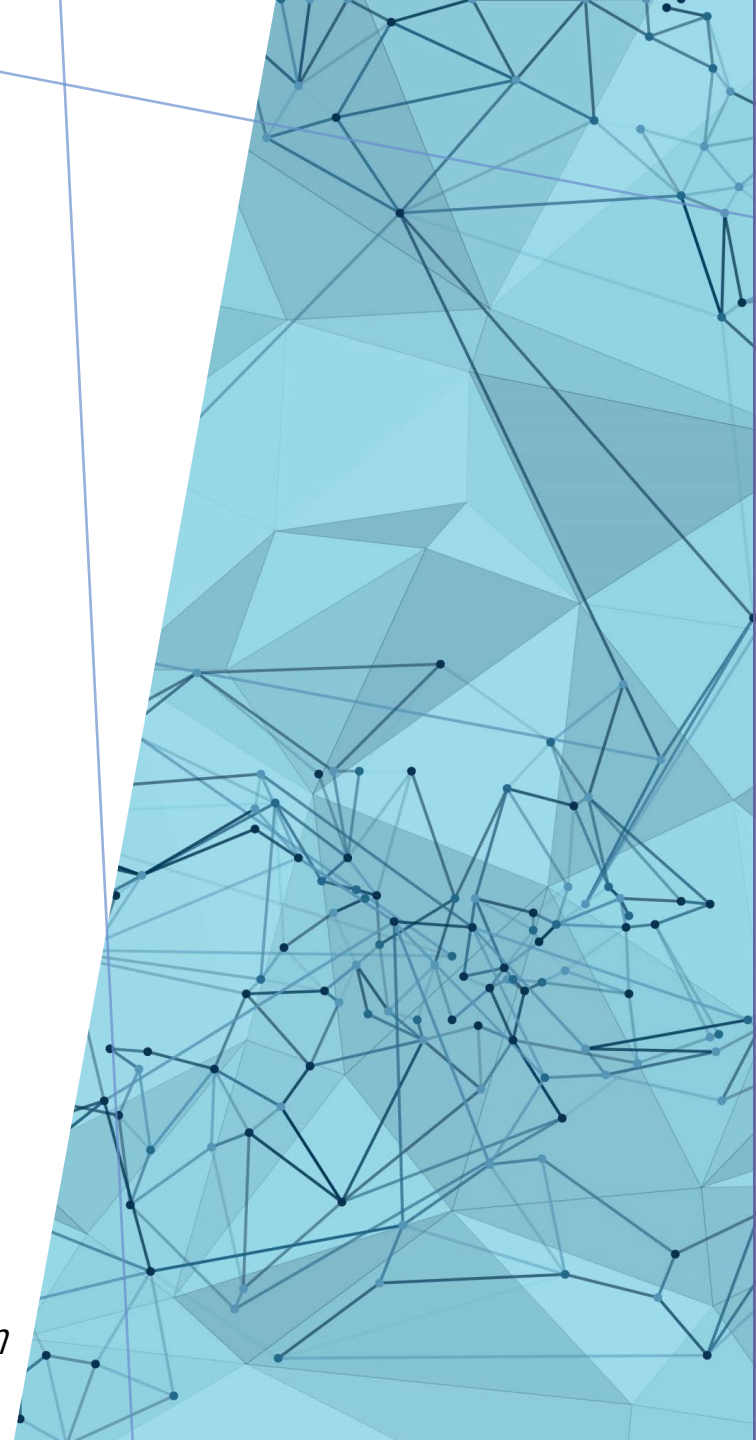


SCIENTIFIC OCEAN DRILLING

# *DATA AND CORE ACCESS*

*This is an interactive PDF. Click on items and action buttons on each slide to navigate the document.*



# BACKGROUND & INTRODUCTION TO SCIENTIFIC OCEAN DRILLING

## CORES

Requesting  
Samples



Repository  
Facilities



## DATA

 Site Survey

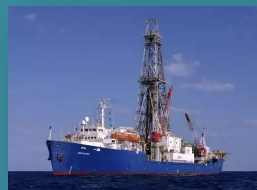
DSDP Shipboard



DSDP Postcruise &  
Publications



ODP Shipboard



ODP Postcruise &  
Publications



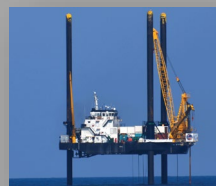
IODP Shipboard  
(JOIDES Resolution)



IODP Postcruise &  
Publications



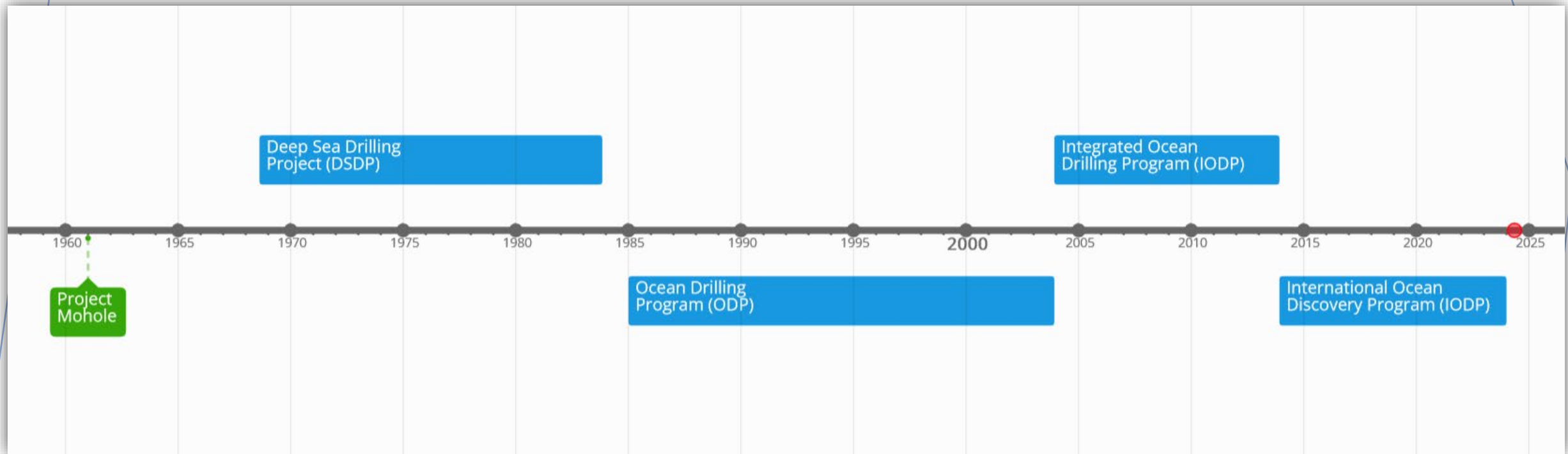
MSP  
Data



Chikyu  
Data



# *INTRODUCTION TO SCIENTIFIC OCEAN DRILLING*



Ocean Drilling Timeline

[Go back to start](#)

[Scientific Ocean Drilling Dictionary](#)

[Next →](#)

# *GENERAL INFORMATION - EXPEDITIONS*

- The term 'Leg' (used during DSDP and ODP) and 'Expedition' (used during IODP) are equivalent.
- A shipboard expedition is an ~2 month timeframe (sometimes shorter) during which drilling, coring, logging, and/or borehole installations are completed.
- Expeditions are numbered by program and through time, although not always sequentially in the IODP phase.
  - DSDP: Legs 1 – 96 [1968-1984]
    - Vessel: [Glomar Challenger](#)
  - ODP: Legs 101 – 210 [1985-2002]
    - Vessel: [JOIDES Resolution](#)
  - IODP: Expeditions 301 – 405 [2003-2024]
    - Vessel: [JOIDES Resolution](#), [Chikyu](#), [MSP \(Mission Specific Platform\)](#)

JR Quick Guide

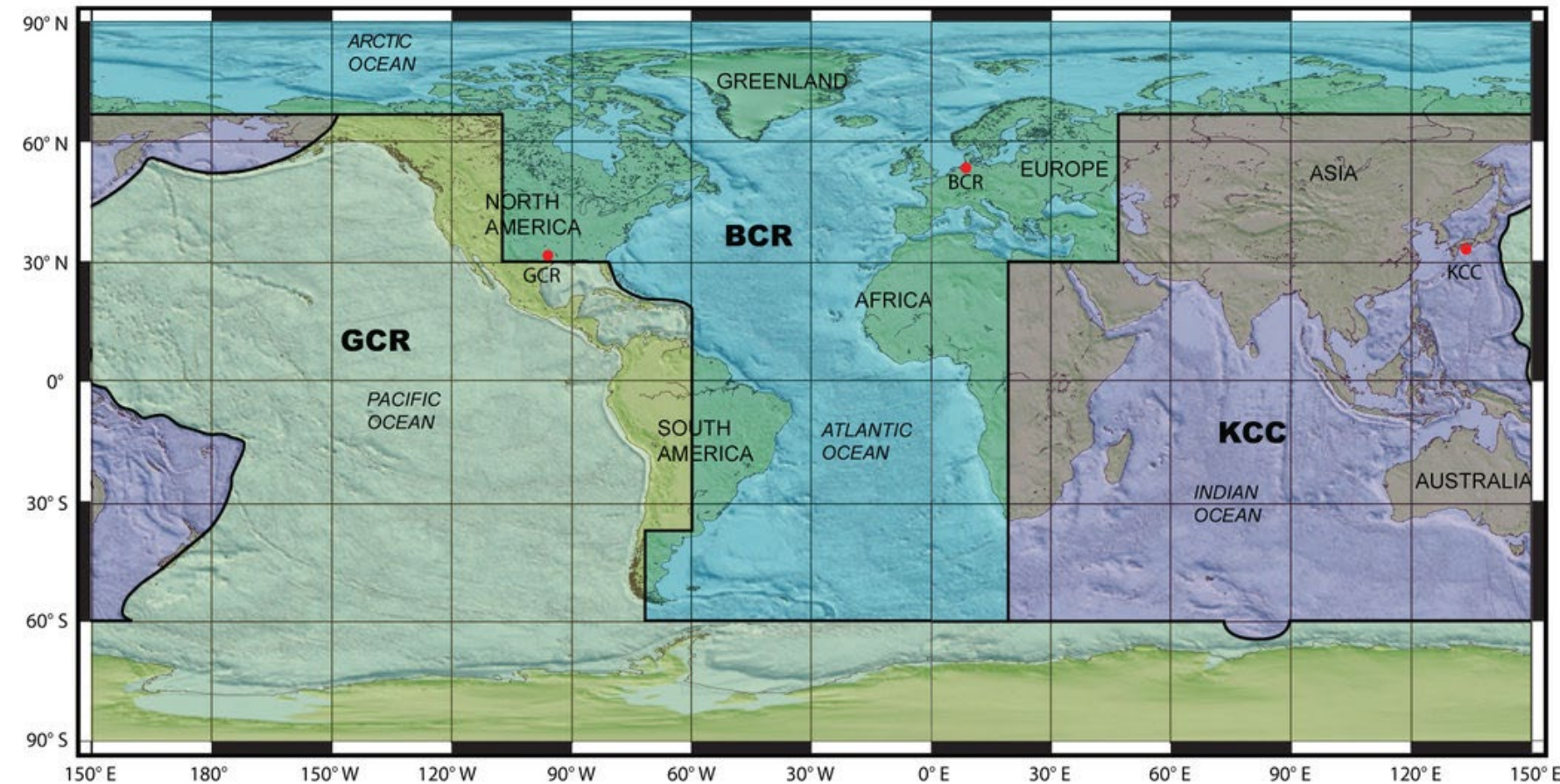
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# REPOSITORIES FOR CORES



Cores are housed in one of three repositories:

[Bremen Core Repository](#)  
[Gulf Coast Repository](#)  
[Kochi Core Center](#)

Repositories house cores from all DSDP/ODP/IODP expeditions.

Cores are stored reefers (refrigerated storage areas), maintained at  $\sim 40^{\circ}\text{F}$  ( $4.4^{\circ}\text{C}$ ). Microbiology archive samples are maintained frozen at  $-86^{\circ}\text{C}$ .

Sample residues, returned samples, and thin sections are also stored at the repositories.

Samples from Project Mohole are stored in the Geological Collections at the Scripps Institution of Oceanography at the University of California, San Diego. The collections include about 40 meters of core, as well as ship logs. The Smithsonian's National Museum of Natural History has some basaltic samples from Project Mohole.

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# *GENERAL INFORMATION - SAMPLES*

- Samples are generally requested/collected from the 'working' half (W)
  - See next diagram for an explanation of the parts of a core and Sample ID
- Sample size and type varies by the analysis planned
  - see the section on [Requesting Samples](#) for further information.
- Volume is more important than sample shape, except for some oriented samples such as paleomagnetic cubes or micro-CT samples.



# *LEGACY CORE QUALITY*

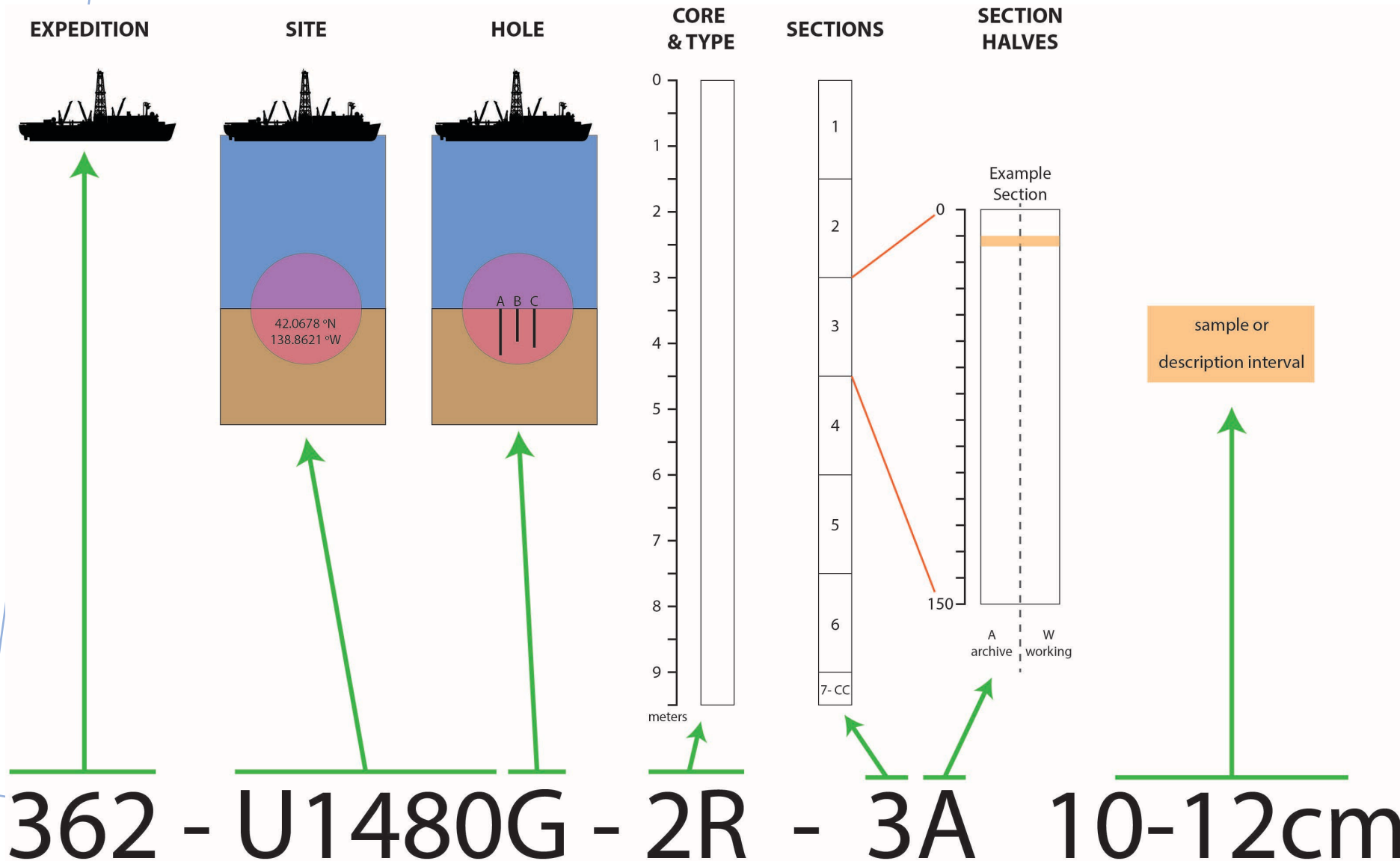
- As time passes from the date of collection, the core may become dried-out or otherwise damaged.
- Many older cores are also heavily sampled, and this is particularly true for “intervals of interest” (e.x. – K/Pg Boundary, Paleocene-Eocene Thermal Maximum).



- The Kochi Core Center is currently developing a [database of current core images](#). The other two repositories may also soon develop similar databases. These images are helpful in determining sample availability.



# PARTS OF A SAMPLE ID



All material recovered during scientific ocean drilling needs to be identifiable.

A standardized system is used to ensure accurate and efficient identification at all scales.

Sample ID  
Tutorial

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# *REQUESTING SAMPLES*

Open and transparent access to samples and data is essential for research progress in scientific ocean drilling.

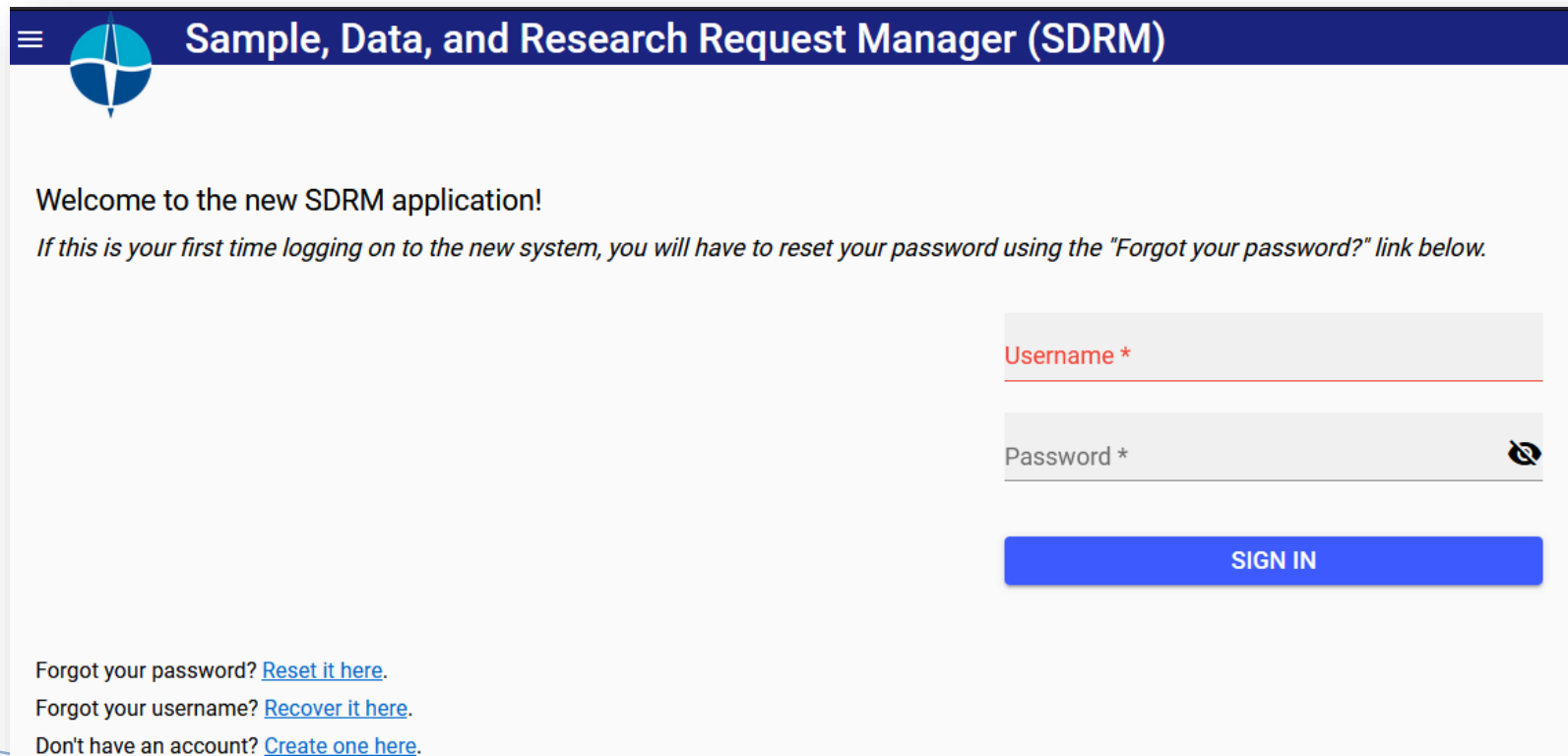
In return, recipients of samples and data incur obligations on their use and on the reporting of derived science outcomes in the peer-reviewed scientific literature.

Please review [IODP Sample, Data, and Obligations Policy and Implementation](https://iodp.org/policies-and-guidelines)

(also available through: <https://iodp.org/policies-and-guidelines>)

# REQUESTING SAMPLES - SDRM

Sample requests are submitted through: <https://web.iodp.tamu.edu/SDRM/#/>



The screenshot shows the login interface for the Sample, Data, and Research Request Manager (SDRM). At the top, there is a dark blue header with a hamburger menu icon, a circular logo with a blue and white design, and the text "Sample, Data, and Research Request Manager (SDRM)". Below the header, the main content area is white. It starts with a welcome message: "Welcome to the new SDRM application!" followed by a note: "If this is your first time logging on to the new system, you will have to reset your password using the 'Forgot your password?' link below." To the right, there are two input fields: "Username \*" and "Password \*". The password field has a toggle icon (an eye with a slash) to its right. Below these fields is a blue button labeled "SIGN IN". At the bottom left, there are three links: "Forgot your password? [Reset it here.](#)", "Forgot your username? [Recover it here.](#)", and "Don't have an account? [Create one here.](#)".

Sample, Data, and Research Request Manager (SDRM)

Welcome to the new SDRM application!  
*If this is your first time logging on to the new system, you will have to reset your password using the "Forgot your password?" link below.*

Username \*

Password \*

SIGN IN

Forgot your password? [Reset it here.](#)  
Forgot your username? [Recover it here.](#)  
Don't have an account? [Create one here.](#)

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# *GENERATING A REQUEST*

Within SDRM ([Sample, Data, and Research Request Manager](#)) you will need to provide the following:

- Request type (research or education) and relevant Legs/Expeditions
- Research title and <2000 word summary of goals/methods
- Sample list
- Contact and shipping information
- Other miscellaneous information and files can also be added/uploaded

Link: [SDRM User Guide](#)

(User Guide also available within SDRM next to 'Create new sample and research request' button)

# SAMPLE SIZE

Sample size varies by the type of analysis planned. For legacy samples, material is more likely to be dried out (harder) and may require sampling by spatula. IODP samples are based on volume ( $\text{cm}^3$  or cc). Request the correct volume of material needed for your analysis – material remaining in legacy cores is often limited.

From the mass of material needed for your analysis, convert to volume based on density.

Calculator:

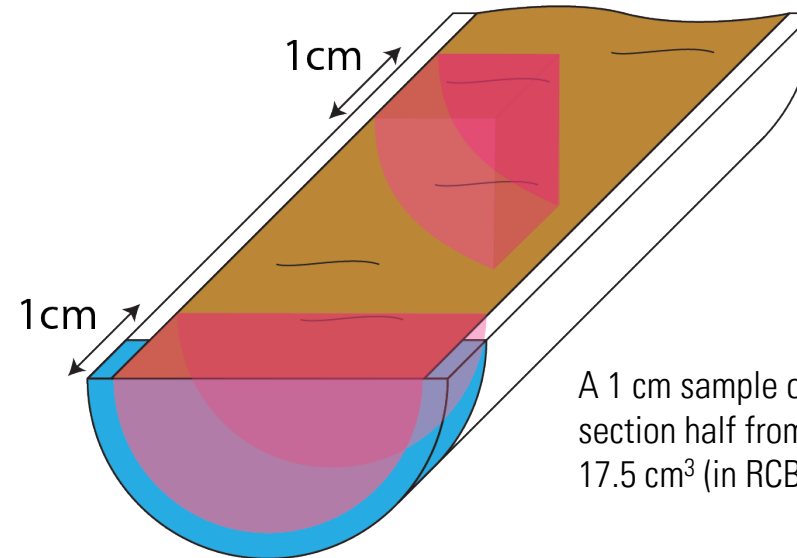
$$\boxed{\phantom{000}} = \phantom{000} / \phantom{000}$$

volume = mass (g) / density ( $\text{g}/\text{cm}^3$ )

Example densities:

basalt =  $2.9 \text{ g}/\text{cm}^3$

clay =  $1.7 \text{ g}/\text{cm}^3$



A 1 cm sample of quarter round from a sediment core is  $8.75 \text{ cm}^3$  (in RCB core,  $6.7 \text{ cm}^3$ )

A 1 cm sample of all material from a section half from a sediment core is  $17.5 \text{ cm}^3$  (in RCB core,  $13.4 \text{ cm}^3$ )



# *REPOSITORY FACILITIES*

- Some measurements can be made on cores (or samples) at the repositories.
- All three repositories have XRF (X-ray fluorescence) scanners.
  - Requests to XRF scan are made through the [Sample, Data, and Research Request Manager](#) (SDRM; see [Requesting Samples](#) for further information).
- Other equipment varies between the repositories.
  - Requests to make other measurements at repositories should be coordinated through the respective curator.

# *XRF SCANNING*

- Submit request through [Sample, Data, and Research Request Manager](#)
- Check the individual repository website(s) and contact the relevant repository curator for more information on XRF scanning and available facilities. There may be a cost associated with using repository instrumentation.



# THE REPOSITORIES

## Bremen Core Repository (BCR)

Location: Bremen, Germany

[Website](#)

Curator: [bcr@marum.de](mailto:bcr@marum.de)

Example Instrumentation:

- XRF scanners
- Possibly other instruments
- Contact the curator for more information

*see website for details*

## Gulf Coast Repository (GCR)

Location: College Station, Texas, USA

[Website](#)

Curator: [curator@iodp.tamu.edu](mailto:curator@iodp.tamu.edu)

Example Instrumentation:

- XRF scanners
- Section half image scanner
- More instrumentation arriving in Fall 2024

*see website for details*

## Kochi Core Center (KCC)

Location: Kochi, Japan

[Website](#)

Curator: [curator@jamstec.go.jp](mailto:curator@jamstec.go.jp)

Example Instrumentation:

- X-Ray Diffraction
- Paleo and Rock Magnetism
- Geochemistry

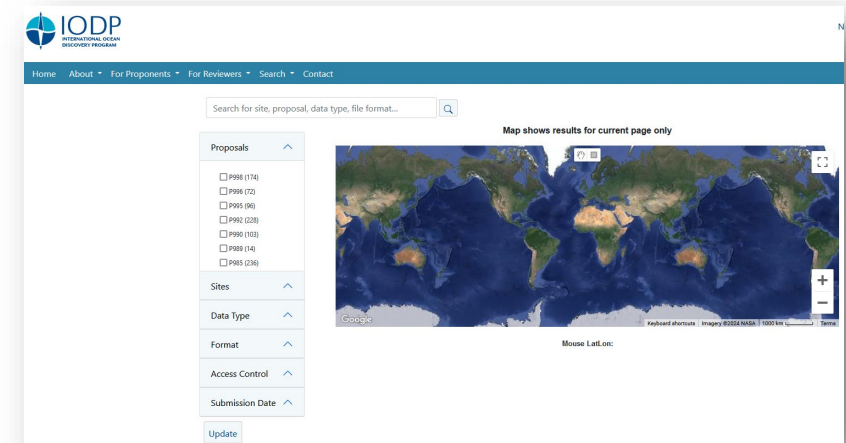
*see website for details*

# *SITE SURVEY DATA*

Single-Channel Seismic (SCS) or Multi-Channel Seismic (MCS) reflection data and other site survey data are collected to plan the location of coring/drilling sites.

These data are stored in [The Site Survey Data Bank \(SSDB\)](#).

The data bank can be searched by proposal number, proposed site, format, and several other metrics – [Advanced Search](#)



Legacy data (ODP) is also available in the digital collection: <https://ssdb.iodp.org/SSDBquery/SSDBlegacy.php>

Site survey data from implemented expeditions may be published on Zenodo in the future.



# *DSDP SHIPBOARD DATA*



NOAA NCEI (National Centers for Environmental Information; formerly NGDC) operates the long-term archive for data from geologic samples collected by the Glomar Challenger during expeditions of the Deep Sea Drilling Project (DSDP), through an agreement with the National Science Foundation (NSF).

High-resolution TIFF images of core photographs are also archived, including close-ups, and microphotographs of thin sections and smear slides. Due to their large volume, and current [availability in PDF in the Janus Web Database](#), these images are only available offline, by request.

[Archive Main Page](#)   [Data](#)

Logging data is available through [LDEO-Columbia University](#).



Site/hole/core summaries, sample reports, core photos, and some close-up photos are available in the Janus Web Database.

Other DSDP data were not imported to the Janus Web Database and are available through NOAA NCEI.

[Janus Main Page](#)

[Janus Data Queries](#) (all)

[Janus Core Images](#)

# *DSDP DATA – ARCHIVE*



NOAA NCEI (National Centers for Environmental Information; formerly NGDC) operates the long-term archive for data from geologic samples collected by the Glomar Challenger during expeditions of the Deep Sea Drilling Project (DSDP), through an agreement with the National Science Foundation (NSF).

High-resolution TIFF images of core photographs are also archived, including close-ups, and microphotographs of thin sections and smear slides. Due to their large volume, and current [availability in PDF in the Janus Web Database](#), these images are only available offline, by request.

[Archive Main Page](#)   [Data](#)




Zenodo is a FAIR (findability, accessibility, interoperability, and reusability) data repository.

DSDP shipboard data are generally not included in Zenodo, however core composite images may be uploaded in the future.

[Downhole logging data](#) are available on Zenodo.

You can upload manuscript-related IODP data to Zenodo and ask for it to be linked to the IODP Community. See “New upload” green button on [the IODP Community page](#).

# DSDP PUBLICATIONS



Deep Sea Drilling Project Reports and Publications

Initial Reports | Technical Notes | Technical Reports | About DSDP | Home

**DSDP Initial Reports**

Volume	Sites	Original Publication Mailing Date	Volume	Sites	Original Publication Mailing Date
<a href="#">Volume 96</a>	614-624	October 1986	<a href="#">Volume 46</a>	396A-396B	January 1979
<a href="#">Volume 95</a>	612-613	April 1987	<a href="#">Volume 45</a>	395-396	January 1979
<a href="#">Volume 94</a>	606-611	January 1987	<a href="#">Volume 44</a>	388-394	November 1978
<a href="#">Volume 93</a>	603-605	May 1987	<a href="#">Volume 43</a>	382-387	June 1979
<a href="#">Volume 92</a>	597, 602, 504B	November 1986	<a href="#">Volume 42 Pt. 1</a>	371-378	April 1978

DSDP publications are Public Domain, Public Access, and Open Access, including:

volume { [initial reports](#)  
[scientific results](#) (in volume link for each initial report)

which can be found on the [DSDP Publications](#) page.

Publications can also be found through the [Scientific Ocean Drilling Bibliographic Database](#). This database also links expedition related journal articles.



**Scientific Ocean Drilling Bibliographic Database**

Credits left to right: T.N. Yamashina © JAMSTEC/IODP; William Crawford/IODP; E. Gillespie © ECORD/IODP.

Search bibliographic records from [Deep Sea Drilling Project](#), [Ocean Drilling Program](#), [Integrated Ocean Drilling Program](#) and [International Ocean Discovery Program](#) research 1969 — present.

Go back to start

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# *DSDP PUBLICATIONS – ARCHIVE*

Electronic backup and preservation of access to published content includes digital archiving available at:

- Archive-IT/Internet Archive: <https://archive-it.org/collections/9148>
- US Library of Congress: <https://lccn.loc.gov/2007215151>
- Hathi Trust: <https://babel.hathitrust.org/cgi/mb?a=listis&c=1930557976>





# ODP SHIPBOARD DATA

This image shows a screenshot of the 'Hole Core Summary' page on the Janus Database. At the top, there is a header for the 'International Ocean Discovery Program' with the 'UNITED STATES IMPLEMENTING ORGANIZATION' logo and navigation links: Overview, Search, Go to LIMS, and Home. A yellow text link 'Janus data (Exp 1-312)' is also present. The main heading is 'Hole Core Summary'. Below it is the 'ODP JanusWeb Request Form'. The form includes several input fields: 'Leg', 'Site', and 'Hole' (a dropdown menu). There are also checkboxes for 'Display Totals? (checked = yes)' and 'Display core types '0123456789GWIS' ?'. The 'Display core types' checkbox is checked. Below these are fields for 'Latitude' and 'Longitude', each followed by a 'to' field and a range of degrees in parentheses. At the bottom of the form are buttons for 'Submit Request', 'Clear Form', 'Help', and 'Report Options'.

ODP data is available through the Janus Web Database.

[Janus Main Page](#)

[Janus Data Queries \(all\)](#)

[Janus Core Images](#)

[Janus Data Types & Examples](#)

Logging data are available through [LDEO-Columbia University](#).

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# ODP DATA – ARCHIVE



NOAA NCEI (National Centers for Environmental Information; formerly NGDC) operates the long-term archive for data from geologic samples collected by the JOIDES Resolution during expeditions of the Ocean Drilling Program (ODP), through an agreement with the National Science Foundation (NSF).

High-resolution TIFF images of core photographs are also archived, including close-ups, and microphotographs of thin sections and smear slides. Due to their large volume, and current [availability in PDF in the Janus Web Database](#), these images are only available offline, by request.

[Archive Main Page](#)   [JR Data](#)



Zenodo is a FAIR (findability, accessibility, interoperability, and reusability) data repository.

ODP data (from Janus) may be deposited into Zenodo in the future.

[Downhole logging data](#) are available on Zenodo.

You can upload manuscript-related IODP data to Zenodo and ask for it to be linked to the IODP Community. See “New upload” green button on [the IODP Community page](#).

# ODP PUBLICATIONS



## Publication Services

[ODP Final Technical Report](#) (PDF; 47 Mb; November 2007)

The following series of publications summarize the scientific and technical accomplishments of each Ocean Drilling Program cruise. To view Integrated Ocean Drilling Program reports and publications go to <http://www.iodp.org/scientific-publications/>.

The *Proceedings of the Ocean Drilling Program* is a two-part publication series produced for each cruise comprised of:

- [Initial Reports](#): A detailed summary of the scientific and engineering results from each leg.
- [Scientific Results](#): A series of peer-reviewed papers that describe the results of shore-based studies related to a leg.

ODP publications are Public Domain, Public Access, and Open Access, including:

[scientific prospectus](#)

[preliminary report](#)

volume { [initial reports](#)  
[scientific results](#)

which can be found on the [ODP-TAMU Publications](#) page.

Publications can also be found through the [Scientific Ocean Drilling Bibliographic Database](#). This database also links expedition related journal articles.

## Scientific Ocean Drilling Bibliographic Database

Credits left to right: T.N. Yamashina © JAMSTEC/IODP; William Crawford/IODP; E. Gillespie © ECORD/IODP.

Search bibliographic records from [Deep Sea Drilling Project](#), [Ocean Drilling Program](#), [Integrated Ocean Drilling Program](#) and [International Ocean Discovery Program](#) research 1969 — present.



# ODP PUBLICATIONS – ARCHIVE

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- US Library of Congress:
  - Ocean Drilling Program Initial Reports: <https://lcn.loc.gov/sn97004709>
  - Ocean Drilling Program Scientific Results: <https://lcn.loc.gov/sn97004867>
- Hathi Trust: <https://babel.hathitrust.org/cgi/mb?a=listis;c=1868324439>





# IODP SHIPBOARD DATA

The screenshot shows the 'LIMS Reports' interface. At the top, it says 'International Ocean Discovery Program JOIDES Resolution Science Operator'. The title 'LIMS Reports' is in the center, with 'Ver 18.3' and 'Best viewed with Firefox' below it. On the right, there are links for 'Change login', 'Logout', and 'Database SHORE'. The main area is divided into three sections: 'Select report' on the left with a list of categories like '+ Summaries', '+ Curation and Samples', '+ Descriptive Information', '+ Images', '+ Magnetism', '+ Physical Properties', '+ Chemistry and Microbiology', '+ X-Ray', and '+ Stratigraphic Correlation'; 'Hierarchy Search' in the middle with dropdowns for 'Expedition(s)', 'Site(s)', 'Core(s)', and 'Section', and input fields for 'Hole(s)', 'Type', and 'Half (A/W)'; and 'Sample Filters' on the right with dropdowns for 'Sample type' and 'Test code', and input fields for 'Sample name', 'Request number', 'Request code', 'Changed after', and 'Changed before'. At the bottom, there are buttons for 'View data', 'About this report', 'Display to CSV', 'Download tabular data', and 'Batch download linked'.

IODP data is available through [LIMS](#).

LIMS is the Laboratory Information Management System used to organize operations and scientific data collected by expeditions of the JOIDES Resolution. LORE is the LIMS Online Report portal used to access the data stored in LIMS.

LIMS contains operations and scientific data for IODP Phase I and II (Expedition 301, 312, and 317 through present). Expedition 302 – 311 are available in the [Janus Web Database](#).

Operations data for prior expeditions (DSDP, ODP) are also available through LIMS, however scientific data are accessed through [Janus](#).

Logging data are available through [LDEO-Columbia University](#).

[LIMS Overview Diagram](#)

[LIMS Overview Tutorial](#) or [User Guide](#)

[LIMS Sample Tutorial](#)

[LIMS Depth Scales Tutorial](#)

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# *IODP DATA – ARCHIVE*



NOAA NCEI (National Centers for Environmental Information; formerly NGDC) operates the long-term archive for data from geologic samples collected by the JOIDES Resolution during expeditions of the Integrated Ocean Drilling Program (IODP) and International Ocean Discovery Program (IODP), through an agreement with the National Science Foundation (NSF).

High-resolution TIFF images of core photographs are also archived, including close-ups, and microphotographs of thin sections and smear slides. Due to their large volume, and current [availability in JPG in LIMS](#), these images are only available offline, by request.

[Archive Main Page](#)   [JR Data](#)



Zenodo is a FAIR (findability, accessibility, interoperability, and reusability) data repository.

[IODP data](#) are being deposited into Zenodo in an effort to make the data more easily accessible. Not all expeditions have been deposited yet, and some data is pending.

[Downhole logging data](#) are also available on Zenodo.

You can upload manuscript-related IODP data to Zenodo and ask for it to be linked to the IODP Community. See “New upload” green button on [the IODP Community page](#).

# IODP PUBLICATIONS

## International Ocean Discovery Program Publications

### International Ocean Discovery Program

Publications of the International Ocean Discovery Program

	Expedition	IO	Sites	Scientific Prospectus	Preliminary Report	Proceedings	Bibliography	RIS	Data
405	Tracking Tsunamiogenic Slip Across the Japan Trench (JTRACQ)	MarE3		<a href="#">405 SP</a>			<a href="#">Bibliography</a>		
403	Eastern Fram Strait Paleo-Archive (FRAME)	JRSO		<a href="#">403 SP</a>			<a href="#">Bibliography</a>		
402	Tyrrenian Continent–Ocean Transition	JRSO		<a href="#">402 SP</a>			<a href="#">Bibliography</a>		
401	Mediterranean–Atlantic Gateway Exchange	JRSO	U1385, U1609–U1611	<a href="#">401 SP</a>	<a href="#">401 PR</a>		<a href="#">Bibliography</a>		
400	NW Greenland Glaciated Margin	JRSO	U1603–U1608	<a href="#">400 SP</a>	<a href="#">400 PR</a>		<a href="#">Bibliography</a>		
399	Building Blocks of Life, Atlantis Massif	JRSO	U1309, U1601	<a href="#">399 SP</a>	<a href="#">399 PR</a>		<a href="#">Bibliography</a>		
398	Hellenic Arc Volcanic Field	JRSO	U1589–U1600	<a href="#">398 SP</a>	<a href="#">398 PR</a>		<a href="#">Bibliography</a>		
397	Iberian Margin Paleoclimate	JRSO	U1385, U1586–U1588	<a href="#">397 SP</a>	<a href="#">397 PR</a>		<a href="#">Bibliography</a>		
397T	Return to Walvis Ridge Hotspot	JRSO	U1584–U1585	<a href="#">397T SP</a>	<a href="#">397T PR</a>	<a href="#">Volume 391</a>	<a href="#">Bibliography</a>	<a href="#">RIS</a>	<a href="#">Zenodo</a>
396	Mid-Norwegian Margin Magmatism and Paleoclimate Implications	JRSO	U1565–U1574	<a href="#">396 SP</a>	<a href="#">396 PR</a>	<a href="#">Volume 396</a>	<a href="#">Bibliography</a>	<a href="#">RIS</a>	<a href="#">Zenodo</a>
395E	Complete South Atlantic Transect Reentry Installations	JRSO	U1556, U1557, U1560, U1561		<a href="#">395E PR</a>	<a href="#">Volume 390/393</a>	<a href="#">Bibliography</a>	<a href="#">RIS</a>	<a href="#">Zenodo</a>

IODP publications are Public Domain, Public Access, and Open Access, including:

[scientific prospectus](#)

[preliminary reports](#)

[proceedings volumes](#)

which can be found on the [JRSO-IODP Publications](#) page.

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## Scientific Ocean Drilling Bibliographic Database

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Search bibliographic records from [Deep Sea Drilling Project](#), [Ocean Drilling Program](#), [Integrated Ocean Drilling Program](#) and [International Ocean Discovery Program](#) research 1969 — present.



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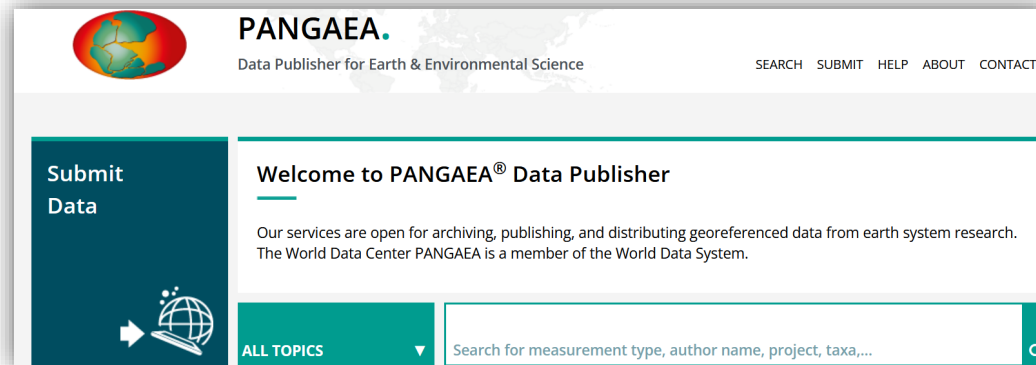
# *IODP PUBLICATIONS – ARCHIVE*

Electronic backup and preservation of access to published content includes digital archiving available at:

- Archive-IT/Internet Archive: <https://archive-it.org/collections/9148>
- US Library of Congress:
  - International Ocean Discovery Program: <https://lcn.loc.gov/2015201542>
  - Integrated Ocean Drilling Program: <https://lcn.loc.gov/2006213536>



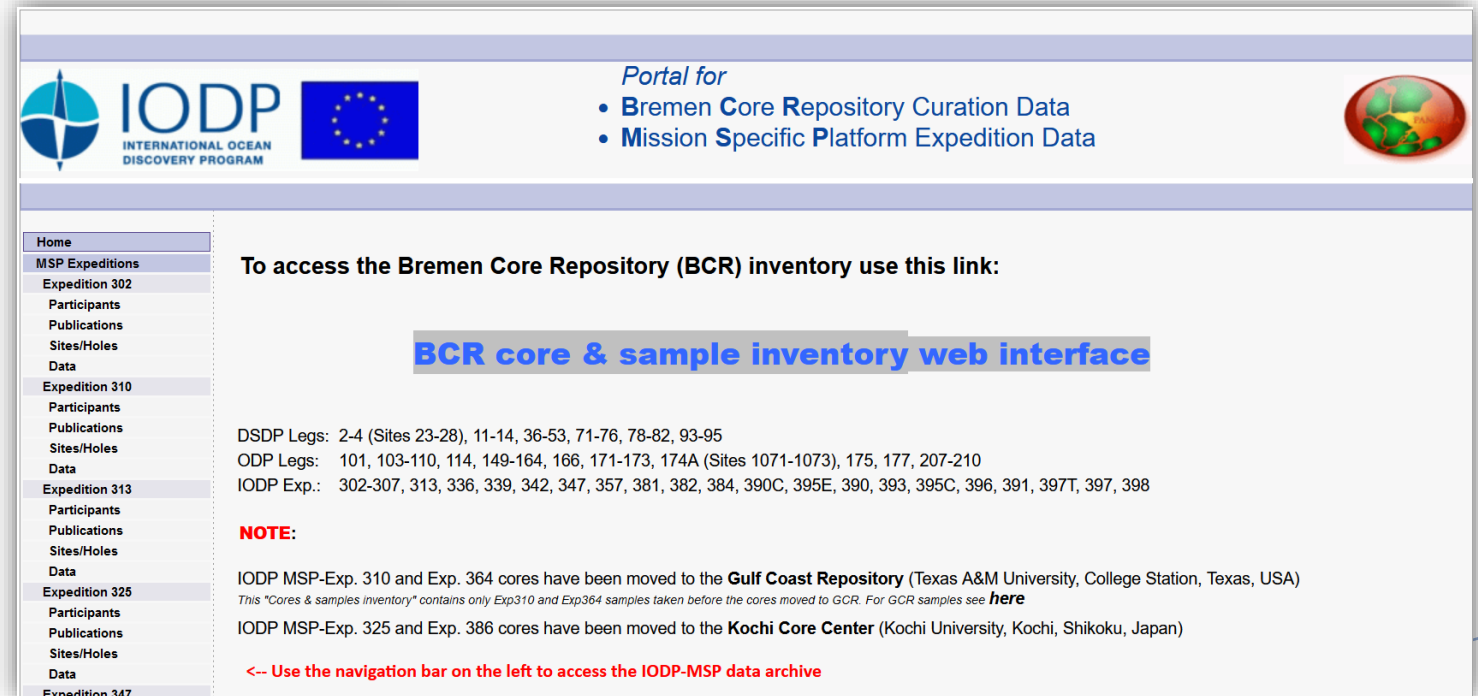
# MSP DATA



Data from Mission Specific Platform (MSP) expeditions can be found through PANGAEA.

<https://www.pangaea.de/>

The [Portal for BCR Curation Data and MSP Expedition Data](#) provides an organized navigation of the IODP-MSP data archive.



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Publications are available on the [JRSO-IODP Publications](#) page.

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# CHIKYU DATA



# JAMSTEC

国立研究開発法人  
海洋研究開発機構

Japan Agency for Marine-Earth Science and Technology

Data from Chikyu expeditions can be found through JAMSTEC.

<https://www.jamstec.go.jp/sio7/>

International Ocean Discovery Program

## 358

NanTroSEIZE Stage 4: Plate Boundary Deep Riser: 4

[Proceedings](#)

Hole	LAT/LONG	WD (m)	Database	Whole core XCT	Split core image	Well logging
C0002Q	33°18.5070'N, 136°38.2029'E	1939.00	✓			✓
C0002R	33°18.5070'N, 136°38.2029'E	1939.00	✓			✓
C0002S	33°18.5070'N, 136°38.2029'E	1939.00	✓			✓
C0002T	33°18.5070'N, 136°38.2029'E	1939.00	✓	✓	✓	✓
C0024A	33°02.0430'N, 136°47.3991'E	3841.50	✓			✓
C0024B	33°02.0000'N, 136°47.3966'E	3843.50	✓	✓	✓	
C0024C	33°02.0000'N, 136°47.3966'E	3843.50	✓	✓	✓	
C0024D	33°02.0000'N, 136°47.3966'E	3843.50	✓	✓	✓	
C0024E	33°02.0000'N, 136°47.3966'E	3843.50	✓	✓	✓	
C0024F	33°02.0656'N, 136°47.3995'E	3839.50	✓	✓	✓	
C0024G	33°02.0108'N, 136°47.4030'E	3843.00	✓	✓	✓	
C0025A	33°24.0910'N, 136°20.1524'E	2011.00	✓	✓	✓	

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