

# SSDB and submitting data for your IODP proposal

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# The SSO Team



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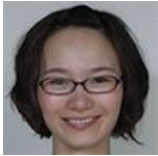
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## **What is SSDB ([ssdb.iodp.org](https://ssdb.iodp.org))**

- The Site Survey Data Bank is the tool through which proponents submit data in support of their IODP proposals
- SSDB also serves as a data resource for the community

## **Who is this session for?**

- This presentation will focus on proponents submitting data for the Nov 1 data deadline

# Topics

- **Resources**
- **How to use SSDB and what's new**
- **Best practices**
- **Question and Answer**

# Resources

(available from [ssdb.iodp.org/documents/proponent-info.php](https://ssdb.iodp.org/documents/proponent-info.php))

## [IODP Site Characterization Data Guidelines](#) (PDF)

- Details of the types of site survey data **usually** required by the Science Evaluation Panel to judge if the scientific objectives of the site can be achieved.

## [How to Submit Data to SSDB](#)

- Step-by-step instructions for using the SSDBproponent tool to upload files and submit your data package in SSDB

## [Standard IODP Confidentiality Policy](#)

- How data confidentiality is managed in IODP

## [Finding and Using Analog Data](#)

- How to access analog data from before the digital SSDB

# Recommended SEGY Headers

For Single-Channel Seismic (SCS) or Multi-Channel Seismic (MCS) reflection data in SEGY format. **Note that if the header location does not follow the recommendation, proponents must provide a similar table in a separate document describing the location of all headers in their SEGY file**

Property	Bytes
Trace sequence number	1-4
Shot point (SP) number	17-20
Common Depth Point (CDP) number	21-24
Scalar to be applied to coordinates	71-72
(for SCS) Navigation coordinate (x) for SP	73-76
(for SCS) Navigation coordinate (y) for SP	77-80
Coordinate units	89-90
Record length (samples/trace)	115-116
Sample rate	117-118
(for MCS) Navigation coordinate (x) for CDP	181-184
(for MCS) Navigation coordinate (y) for CDP	185-188

# Recommended Formats

Digital Seismic	SEG Y with byte locations and EBSDIC header information
Echosounder or subbottom profiler	SEG Y with byte locations and EBSDIC header information, KEB
Images (Graphics)	JPEG, TIFF, PDF, Portable Network Graphic (PNG) <b>No GeoTiffs</b>
Documents	PDF, Plain Text (ASCII)
Tables	PDF, Plain Text (ASCII)
Video	MPEG, Quicktime movie (MOV)
Digital Maps	NetCDF (GMT) GRD, Fledermaus SD or Scene
Logging Data	LAS, Plain Text (ASCII), in delimited columns
Navigation	Plain Text (ASCII), in delimited columns, UKOOA (data in decimal degrees)
Velocity	Plain Text (ASCII), in delimited columns and semblance plots (JPEG or PDF)

# Expected Metadata

Metadata Field	Description
Site Names	The drill site(s) to which the file relates
Type	Is the file data, map, photo/video, or document/other
Format	e.g. plain text, PDF, SEGY, etc.
<u>Data Owner</u>	Who created/has intellectual ownership? Must include a given and family name, and ideally an institution. Only ascii characters allowed, no symbols/diacritics.
Description	Must include all additional information needed to understand the file. Up to 4000 characters, ascii only, no symbols/diacritics.
Access Control	Do you need to place a proprietary hold on this file, or is it available for public release? If the data requires a Non Disclosure Agreement, contact us before uploading the data.
<u>Reason for Hold</u>	If a Hold is requested, a justification must be provided
Start Time	When did the data collection period begin (leave as default if unknown)
End Time	When did the data collection period end (leave as default if unknown)
Georeferencing	The latitude/longitude bounds of the file, in decimal degrees, WGS84 referencing system. Georeferencing must match the file (e.g. most SEGY files should use a line, maps should use a bounding box).
Related Activity	IODP Proposal number, Expedition number, Drill Hole, or Cruise name of any related activity
Method	The method through which the data were collected. This will be a drop-down list that varies by data type.
<u>Archive DOI/Persistent URL</u>	If the file is archived in a recognized data repository, please provide the DOI, a persistent URL, or other globally unique identifier.



# Expected Metadata, additional for SEG Y

Metadata Field	Description
Seismic Line Name	The name or identifier of the seismic line
UTM Zone	UTM Zone, if SEG Y is georeferenced in UTM. E.g. 31J
Horizontal Units	e.g., CDP, Shot point
Vertical Units	e.g., two way travel time, meters

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## Basic User Menu

[SSDBquery](#)[SSDBlegacy](#)

## Quick Links

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Characterization  
Data Guidelines](#)[Home](#) > Information for Proponents

## Information for Proponents

Data Submission Deadline: May 3 2021 23:59 UTC

## Welcome to the SSDB as a Proponent

[SSDBproponent](#) is the main tool through which you will create and submit a data package in support of your drilling proposal.

## Guidance Documents for Proponents


- :: [IODP Site Characterization Data Guidelines](#) (PDF)
  - :: Details of the types of site survey data **usually** required by the Science Evaluation Panel to judge if the scientific objectives of the site can be achieved
- :: [How to Submit Data to SSDB](#)
  - :: Step-by-step instructions for using the SSDBproponent tool to upload files and submit your data package in SSDB
- :: [Standard IODP Confidentiality Policy](#)
  - :: How data confidentiality is managed in IODP
- :: [Finding and Using Analog Data](#)
  - :: How to access analog data from before the digital SSDB

## SSDB Tools for Proponents

# Tools on SSDB

Tool	Function
<a href="#">My Account</a>	Maintain updated contact information, and request access to specific proposals.
<a href="#">SSDBproponent</a>	Upload data files and related descriptive information (metadata) from your computer to the SSDB. View and edit your uploaded files and metadata, and then create and submit a data package in support of your proposal.
<a href="#">SSDBlegacy</a>	Search physical objects, digital data, and site and proposal information that were submitted before ~2005.
<a href="#">SSDBquery</a>	Public-facing tool to locate and download files using a text search interface, and view results using Google Earth.
<a href="#">Drilled Holes</a>	Map of all drilled boreholes during DSDP, ODP, and IODP, with links to publications. Requires Google Earth.

# Getting Started: Check your account and access

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## Site Survey Data Bank

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### Site Survey Data Bank (SSDB)

**Data Submission Deadline: May 3 2021 23:59 UTC**

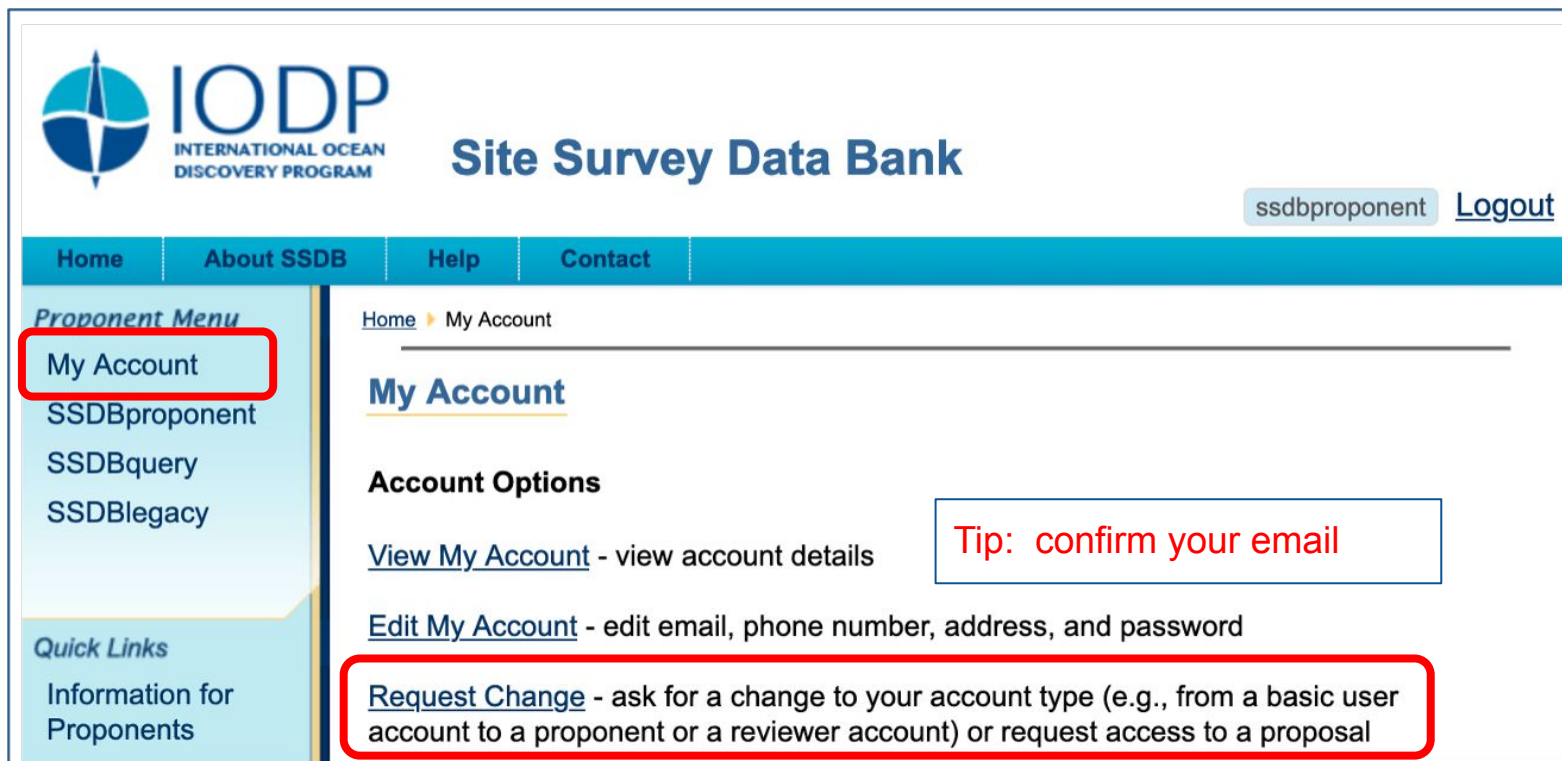
### Welcome to the Site Survey Data Bank (SSDB)


The Site Survey Data Bank (SSDB) is a repository for site survey data submitted in support of International Ocean Discovery Program ([IODP](#)) proposals and expeditions. SSDB serves different roles for different sets of users:

# Registration is a 2-step process

- 1) Register for a basic account
- 2) Request an upgrade to a proponent for a specific proposal

# Getting Started: Check your account and access



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## Site Survey Data Bank

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**Proponent Menu**

- My Account**
- SSDBproponent
- SSDBquery
- SSDBlegacy

**Quick Links**

- Information for Proponents

[Home](#) > [My Account](#)

### My Account

#### Account Options

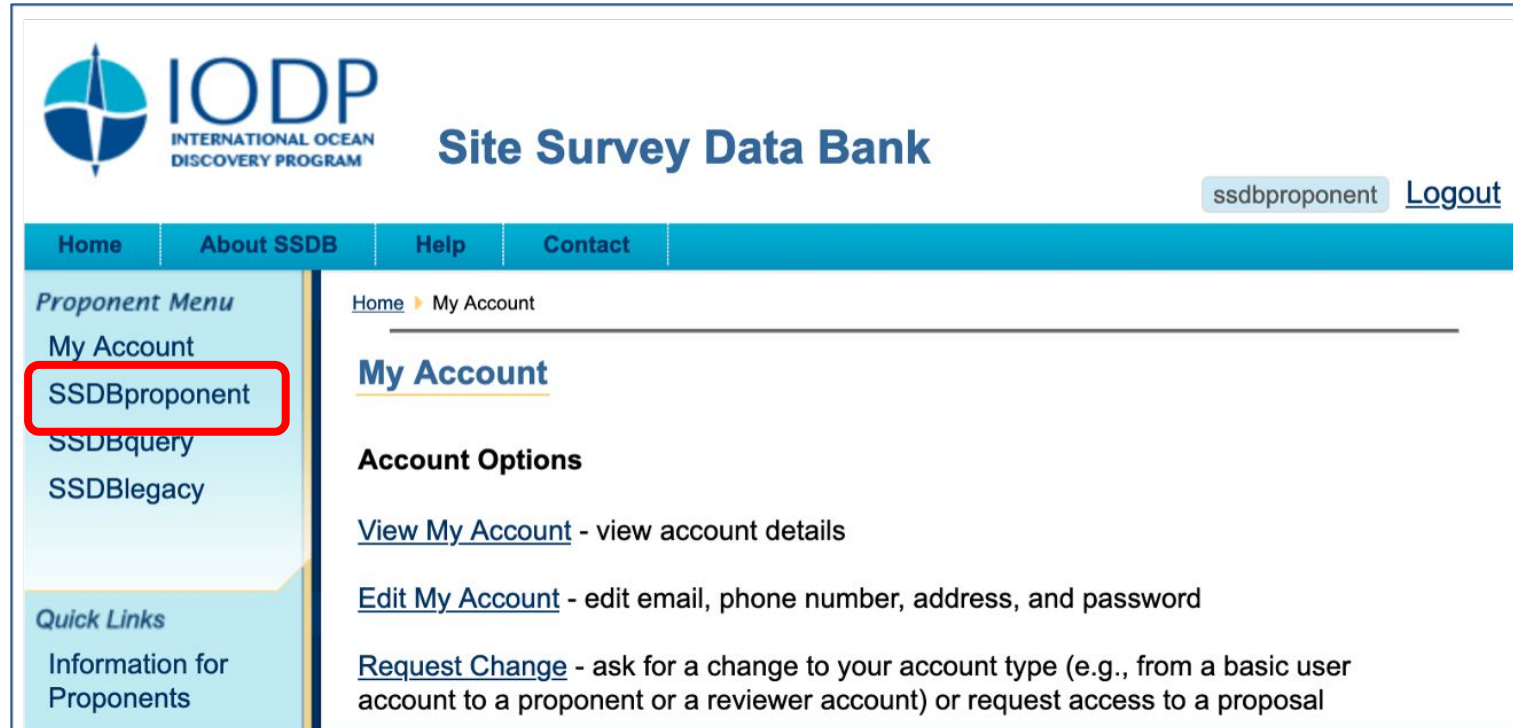
[View My Account](#) - view account details

[Edit My Account](#) - edit email, phone number, address, and password

[Request Change](#) - ask for a change to your account type (e.g., from a basic user account to a proponent or a reviewer account) or request access to a proposal

**Tip: confirm your email**

# Using SSDBproponent



The screenshot displays the IODP Site Survey Data Bank (SSDB) website. The header includes the IODP logo and the text "INTERNATIONAL OCEAN DISCOVERY PROGRAM". The main title is "Site Survey Data Bank". In the top right corner, there is a button labeled "ssdbproponent" and a link labeled "Logout". Below the header is a navigation bar with links: "Home", "About SSDB", "Help", and "Contact". On the left side, there is a "Proponent Menu" with the following items: "My Account", "SSDBproponent" (highlighted with a red box), "SSDBquery", and "SSDBlegacy". Below the menu is a "Quick Links" section with the text "Information for Proponents". The main content area shows the breadcrumb "Home > My Account" and the title "My Account". Under the title, there is a section "Account Options" with three links: "View My Account" (view account details), "Edit My Account" (edit email, phone number, address, and password), and "Request Change" (ask for a change to your account type or request access to a proposal).

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Site Survey Data Bank

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*Quick Links*

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## My Account

### Account Options

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## Site Survey Data Bank

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### Proponent Menu

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### Quick Links

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[IODP Proposal  
Submission](#)

### Select Proposal

Select a proposal to work with below. If your proposal is not listed, you may request access to it on the [Request Access](#) page. For questions, please [contact us](#).

#### Proposals:

- ☒ P477
- ☐ P556
- ☐ P654
- ☐ PTEMP001

[Next Step ->](#)

If you do not see your proposal go to My Account, and then Request Change



# Questions?

## (Live Demo of SSDB Package Creation)

# Steps in Submitting a Data Package

1. Move data from previous submissions
2. Upload new files
3. Create/edit seismic associations (now required, if SEGY included)
4. Submit package

# Questions?

# Avoiding Common Problems

- Include all files that are still relevant in your current package
- Include a separate navigation file for each SEG Y
- Avoid nonstandard SEG Y headers, or give a header description
- Ensure Shot Points/CDPs/CMPs are consistent
- Provide complete metadata
  - Include a name, not just an institution, in the Data Owner field
- Don't include ReadMe or other texty files. Files should be self-describing - use the Description metadata field
- Don't use the back button

# Avoiding Common Problems: Georeferencing

- Use decimal degrees lat/lon in metadata and within files: -90 to 90 lat and -180 to 180 lon, WGS84 georeferencing
- Double check lat/lons, especially the sign
- Use appropriate geospatial referencing (e.g., line for SEG Y data, bounding box for maps). Overly large boxes will be returned for revision.

# Tip: Make a metadata spreadsheet

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
	Site Names	Type	Format	Data Owner	Description	Access Control	Reason for Hold	Start Time	End Time	Start Lat	Start Lon	End Lat	End Lon	Method	Archive DOI/ Persistent URL	
Filename1																
Filename2																
Filename3																

## After Submission

During November, files will receive non-scientific quality control

If an issue is found, time is tight for correction/replacement

Please ensure you / your data lead is available to respond

# Questions?

Please raise your hand in Zoom or type your question into the chat box

For later questions:

[science@iodp.org](mailto:science@iodp.org): for proposal and content-related questions

[gdc@ucsd.edu](mailto:gdc@ucsd.edu): for technical system questions