DARWIN^{*} Data and Sample Research System for Whole Cruise Information in JAMSTEC

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MIRAI MR08-04 Bathymetry (MBES)

	Last Modified: 2012-10
eadMe Observation Data Format	
cruise ID: MR08-04	
athymetry (MBES): Processed (DMO)-Basic	
Data Policy: JAMSTEC	
bservation Items: Depth	
cience Keywords:	
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Instrument:

Multi-narrow beam echo sounder (-MR12-E01)



Overview

The data provided here are the bathymetric data obtained from the multibeam echo sounder system (MBES). The system transmits the shape echo sounder beam from the transmitter and receives the beam reflected from the seabed using the hydrophone. The water depth is calculated from the travel time of the beam between the transmitter and the receiver. Having many transmitters make fan beams across the keel, this system can obtain a lot of bathymetric data on a wide angle at once.

The travel time of the beam (from the transmitter to the seabed and from the seabed to the receiver) is corrected using the vertical profile of the sound velocity obtained from the in situ observations. (see section Sound velocity profile correction). The raw data with the low reliability such as the noise are removed using the software (see section Processed data).

Measurement System

Manufacturer:	SEABEAM INSTRUMENTS
Type :	SEABEAM 2112.004
Frequency :	12kHz
Swath angle:	Max 150°
Beam angle:	2 * 2°
Beam number:	151
Range:	50m - 11,000m
Resolution (Depth)	Center beam [Depth (m) * 0.2%], Side beam [Depth (m) * $\frac{1}{2}$.

Sound velocity profile correction

In the survey area, the sound velocity profile correction is made using the XBT data acquired during the cruise. On the other hand, in the transit area, e.g., from the survey area to the port, where we do not conduct the XBT observations, the data are corrected using the historical XBT data or the Argo float data.

Processed Data

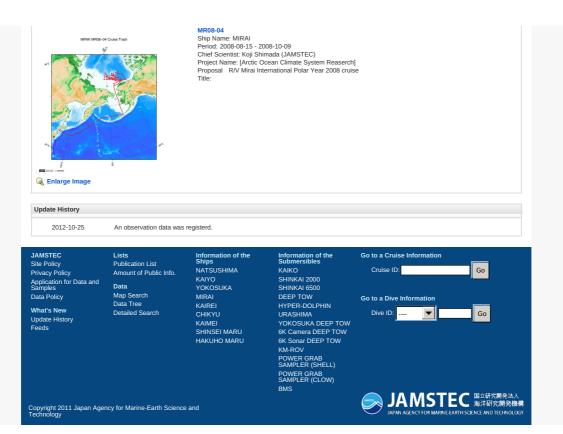
- Following raw data with the low reliability are removed using the processing software "HIPS and SIPS" of CARIS Inc:
 - Navigation error data.
- · Data more than manufacturer specification (see section Measurement System)
- · Spike noise data (If both of slopes calculated from the evaluated beam and prior/post one on the same swath are less than 5 degrees.)
- Side beam (Beam No.1-21,131-151 : Starboard is No.1 beam.)
- The data quality is different in the survey and transit area because of the difference of the temperature data for the sound velocity profile correction. Therefore, we open the survey and transit area data separately. The rule of the file name is as follows.

File name :

- · Survey area data : YYYYMMDD.dat
- · Transit area data : TYYYYMMDD.dat
- YYYY: year, MM: month, DD: day
- "T" of the header indicates the transit area data.

Note

- (1) Geodetic system: WGS84
- (2) The tide is not corrected.
- (3) These data are compressed in zip format, please use that after unpacking.
- (4) If you would like the raw data set, please contact us from "Contact Us" above



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MIRAI MR08-04 Bathymetry (MBES)

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Related Information

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MR08-04 Ship Name: MIRAI Period: 2008-08-15 - 2008-10-09 MIRAI MR08-04 Cruise Track 5° Chief Scientist: Koji Shimada (JAMSTEC) Project Name: [Arctic Ocean Climate System Reaserch] Proposal R/V Mirai International Polar Year 2008 cruise Title: 風 Enlarge Image Update History 2012-10-25 An observation data was registerd. Information of the Submersibles JAMSTEC Information of the Ships Go to a Cruise Information Site Policy Privacy Policy Publication List Amount of Public Info. NATSUSHIMA KAIYO Cruise ID: Go KAIKO SHINKAI 2000 Application for Data and Samples Data Policy YOKOSUKA MIRAI Data SHINKAI 6500 DEEP TOW Map Search Data Tree Go to a Dive Information CHIKYU Dive ID: ----What's New Go Detailed Search URASHIMA YOKOSUKA DEEP TOW Update History Feeds SHINSEI MARU HAKUHO MARU 6K Camera DEEP TOW 6K Sonar DEEP TOW KM-ROV POWER GRAB SAMPLER (SHELL) POWER GRAB SAMPLER (CLOW) BMS Copyright 2011 Japan Agency for Marine-Earth Science and Technology

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