

MIRAI MR12-01 Leg2 Bathymetry (MBES)

Last Modified: 2019-01-09

ReadMe

Cruise ID: [MR12-01 Leg2](#)

Bathymetry (MBES): Raw

Data Policy: [JAMSTEC](#)

Observation Items: Depth

Science Keywords:

OCEANS > BATHYMETRY/SEAFLOOR > BATHYMETRY
TOPOGRAPHY
SOLID EARTH > GEOMORPHOLOGY

Cruise Report

http://www.godac.jamstec.go.jp/catalog/data/doc_catalog/media/MR12-01_leg2_all.pdf

For Using Data

Principal Investigator

Data Management Office

Use Constraints

See [Terms and Conditions](#) about constrain of use.

Data Citation

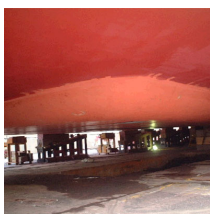
See [Terms and Conditions](#) about data citation.

Instrument

Instrument:

Multi beam echo sounder (MR12-01

Leg1 - MR14-02)



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.

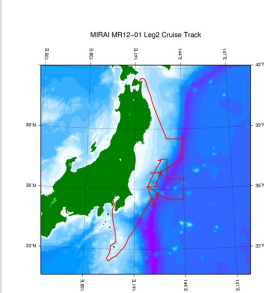
The travel time of the beam (from the transmitter to the seabed and from the seabed to the receiver) is corrected using the vertical profile of the sound velocity obtained from the in situ observations. (see section Sound velocity profile correction). The raw data with the low reliability such as the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

About this data

We have no plan to process the data due to equipment failure etc.

Please refer to the "Contact Us" if you wish to use the raw data.

Related Information



[Enlarge Image](#)

MR12-01 Leg2

Ship Name: MIRAI
Period: 2012-05-20 - 2012-05-30
Chief Scientist: Shinya Okumura (JAMSTEC)
Proposal ▶ 2012 MIRAI Engineering Cruise
Title:

Update History

2019-01-09	An observation data was registered.
2013-07-02	An observation data was registered.

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KAIYO
YOKOSUKA
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CHIKYU
KAIMEI
SHINSEI MARU
HAKUHO MARU

Information of the Submersibles
KAIKO
SHINKAI 2000
SHINKAI 6500
DEEP TOW
HYPER-DOLPHIN
URASHIMA
YOKOSUKA DEEP TOW
6K Camera DEEP TOW
6K Sonar DEEP TOW
KM-ROV
POWER GRAB
SAMPLER (SHELL)
POWER GRAB
SAMPLER (CLOW)

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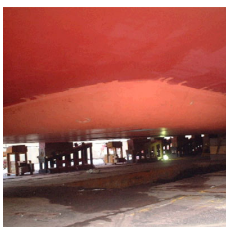
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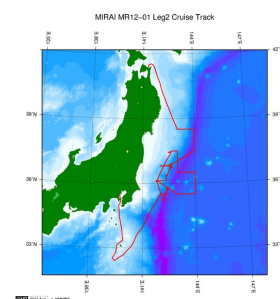
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Proposal ▶ 2012 MIRAI Engineering Cruise

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Feeds

SHINSEI MARU
HAKUHO MARU

YOKOSUKA DEEP TOW
6K Camera DEEP TOW
6K Sonar DEEP TOW
KM-ROV
POWER GRAB SAMPLER
(SHELL)
POWER GRAB SAMPLER
(CLOW)
BMS

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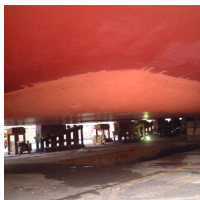
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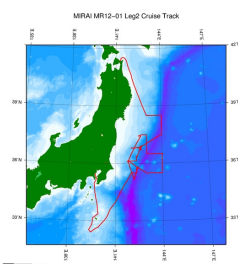
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