

## MIRAI MR05-02 Lowered Acoustic Doppler Current Profiler (LADCP)

Last Modified: 2018-05-12

[ReadMe](#) [Observation Data](#)

Cruise ID: [MR05-02](#)

Lowered Acoustic Doppler Current Profiler (LADCP) : Processed (PI)

Data Policy: [JAMSTEC](#)

Observation Items: Depth, Velocity (zonal and meridional)

Science Keywords:

OCEANS > OCEAN CIRCULATION > OCEAN CURRENTS

Cruise Report

[http://www.godac.jamstec.go.jp/catalog/data/doc\\_catalog/media/MR05-02\\_all.pdf](http://www.godac.jamstec.go.jp/catalog/data/doc_catalog/media/MR05-02_all.pdf)

### For Using Data

#### Principal Investigator

Shinya Kouketsu (JAMSTEC)

#### Use Constraints

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

#### Data Citation

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

### Overview

Velocity data with LADCP

Please see the [Data book](#) for details of data.

Data process

Vertical profiles of velocity are obtained by the inversion method (Visbeck, 2002).

Visbeck, M. (2002): Deep velocity profiling using Lowered Acoustic Doppler Current Profilers: Bottom track and inverse solutions, J. Atmos. Oceanic Technol., 19, 794-807.

Data files

MR05-02\_ladcp\_full.zip

Velocity profile for full depth.

MR05-02\_ladcp\_bot.zip

Velocity profile only the range where the bottom track data were obtained.

For the process the data, only the data within the range are used.

File format

Cruise\_Code Section\_Code Station\_Code Cast\_Code

Year/Month/Day Hour/Minutes Time\_Zone

Degree\_Latitude Minites\_Latitude [N/S] Degree\_Longitude Minites\_Longitude [E/W]

Magnetic\_Deviation

z u v ev

Depth(m) U(m/s) V(m/s) Error(m/s)

```
. . . .
. . . .
. . . .
. . . .
. . . .
```

Cruise\_Code: cruise code

Section\_Code: section code

Station\_Code: station code

Cast\_Code: cast code

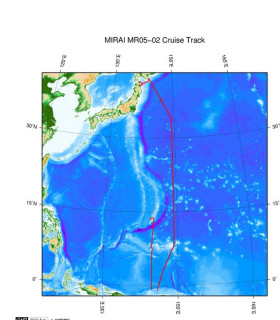
Year/Month/Day Hour/Minutes Time\_Zone: The time at the bottom of the cast.

Degree\_Latitude Minites\_Latitude [N/S]: The latitude at the bottom of the cast.

Degree\_Longitude Minites\_Longitude [E/W]: The longitude at the bottom of the cast.

Magnetic\_Deviation: Magnetic deviation calculated using IGRF.

### Related Information



 [Enlarge Image](#)

#### MR05-02

Ship Name: MIRAI

Period: 2005-05-25 - 2005-07-01

Chief Scientist: Takeshi Kawano (JAMSTEC)

Project Name: [POST-WOCE Hydrography]

### Update History

2018-05-12	An observation data was registerd.
2012-11-25	An observation data was registerd.

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Site Policy  
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Application for Data and Samples  
Data Policy  
  
What's New  
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Map Search  
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Information of the Ships  
NATSUSHIMA  
KAIYO  
YOKOSUKA  
MIRAI  
KAIREI  
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)  
BMS

Go to a Cruise Information

Cruise ID:

Go to a Dive Information

Dive ID:

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**JAMSTEC**  
JAPAN AGENCY FOR MARINE-EARTH SCIENCE AND TECHNOLOGY

国立研究開発法人  
海洋研究開発機構

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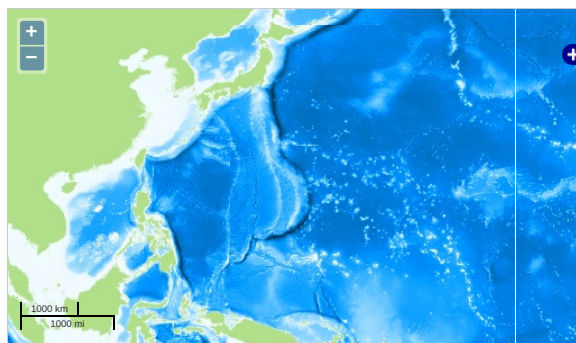
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### Observation Map



... Observation Line ... Navigation ... Observation, Dive Point, Hole

Imagery reproduced from ...

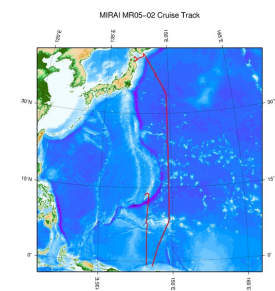
### Data List

☐ File names

☐ MR05-02\_ladcp\_bot.zip

☐ MR05-02\_ladcp\_full.zip

### Related Information



[Enlarge Image](#)

#### MR05-02

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Period: 2005-05-25 - 2005-07-01

Chief Scientist: Takeshi Kawano (JAMSTEC)

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