

MIRAI MR07-04 Lowered Acoustic Doppler Current Profiler (LADCP)

Last Modified: 2018-05-12

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

Cruise ID: [MR07-04](#)

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/MR07-04_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

MR07-04_ladcp_full.zip

Velocity profile for full depth.

MR07-04_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 flg(only for full depth profiles)

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

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. . . . .
. . . . .
. . . . .
. . . . .
. . . . .

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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.

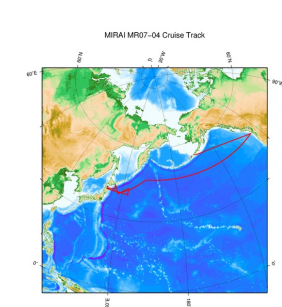
Degree_Latitude Minites_Latitude [N/S]: The latitude at the bottom of the cast.

Degree_Longitude Minites_Longitude [E/W]: The longitude at the bottom of the cast.

Magnetic_Deviation: Magnetic deviation calculated using IGRF.

Flag: Flags of weak target strength. If target strength < 25.0, the value is set to "1". Data with the flag of "1" are bad mesurements.

Related Information



MR07-04

Ship Name: MIRAI

Period: 2007-07-24 - 2007-09-03

Chief Scientist: Takeshi Kawano (JAMSTEC)

Project Name: [POST-WOCE Hydrography]

 [Enlarge Image](#)

Update History	
2018-05-12	An observation data was registerd.
2012-10-27	An observation data was registerd.

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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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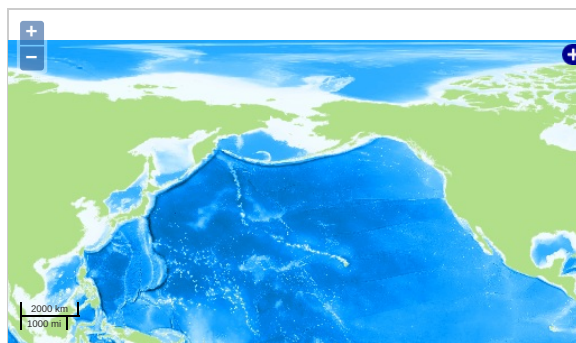
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Observation Map



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

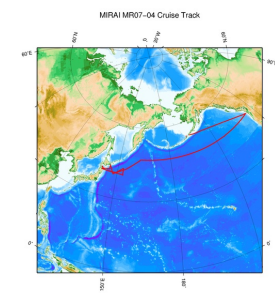
Data List

☐ File names

☐ MR07-04_ladcp_bot.zip

☐ MR07-04_ladcp_full.zip

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