

MIRAI MR05-05 Leg1 Lowered Acoustic Doppler Current Profiler (LADCP)

Last Modified: 2018-05-12

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

Cruise ID: [MR05-05 Leg1](#)

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/MR05-05_leg1-3_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

MR05-05_leg1_ladcp_full.zip

Velocity profile for full depth.

MR05-05_leg1_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)

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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.

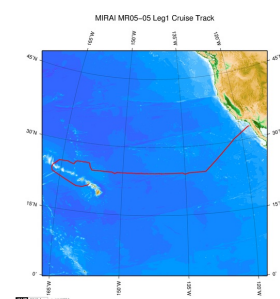
Degree_Longitude Minites_Longitude [E/W]: The longitude at the bottom of the cast.

Magnetic_Deviation: Magnetic deviation calculated using IGRF.

Contact

Shinya Kouketsu (skouketsu@jamstec.go.jp)

Related Information



 [Enlarge Image](#)

MR05-05 Leg1

Ship Name: MIRAI

Period: 2005-10-31 - 2005-11-24

Chief Scientist: Takeshi Kawano (JAMSTEC)

Project Name: [POST-WOCE Hydrography]

Update History

2018-05-12 An observation data was registered.

2012-11-25

An observation data was registerd.

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Go to a Cruise Information

Cruise ID:

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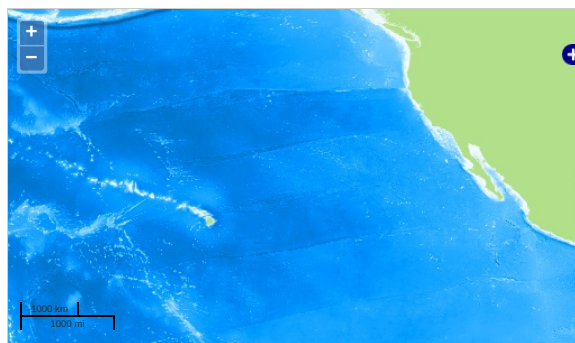
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Observation Map



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

Imagery reproduced from ...

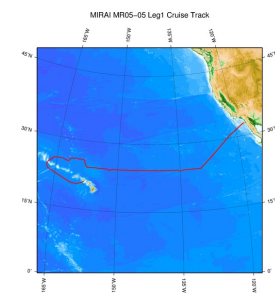
Data List

☐ File names

☐ MR05-05_leg1_ladcp_bot.zip

☐ MR05-05_leg1_ladcp_full.zip

Related Information



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