

MIRAI MR07-04 Shipboard Acoustic Doppler Current Profiler (ADCP)

Last Modified: 2017-04-11

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

Cruise ID: [MR07-04](#)

Shipboard Acoustic Doppler Current Profiler (ADCP): Processed (PI)

Data Policy: [JAMSTEC](#)

Observation Items: Depth, Absolute velocity (zonal, meridional and vertical)

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.

Instrument

Instrument:

Shipboard acoustic doppler current profiler (ADCP) (MR08-02 -)

Instrument:

Shipboard acoustic doppler current profiler (ADCP) (- MR08-E01)



About this data

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

- File name

adcp_P1_1_a.txt : revisit cruise for P1 leg1

adcp_P1_1_b.txt : revisit cruise for P1 leg1

adcp_P14_1_a.txt :revisit cruise for P14 leg1 (& a part of the P1 revisit)

adcp_P14_1_b.txt :revisit cruise for P14 leg1 (& a part of the P1 revisit)

adcp_P14_2_a.txt :revisit cruise for P14 leg2

adcp_P14_2_b.txt :revisit cruise for P14 leg2

- Data structure of each profile

(1) adcp_***_*.a.txt

The file consists of 239 profiles on the CTD site. Each profile consists of header and data. The header has three lines representing analyzed site, date and time, and position. The data has 68 layers in which depth, zonal velocity, meridional velocity, and vertical velocity of each grid are stored. Unit of depth is in meter.

Unit of flow is in m/s. On the CTD station, the CTD station name (e.g. "143_1") is recorded as the analyzed site in the header.

Mean time and position were calculated and recorded using the ADCP profiles during the CTD operation was made. The "99.999" f in the data represents no available data stored.

[data structure of the data set A]

Line 1: header 1

Column 1: cruise code

Column 2: analyzed site

Line 2: header 2

date

Line 3: header 3

Column 1: longitude (degree E)

Column 2: latitude (degree N)

Line 4-70: flow data in each depth level

Column 1: depth (m)

Column 2: zonal velocity (m/s)

Column 3: meridional velocity (m/s)

(2) adcp_***_*.b.txt

Flow data processed in every three minutes are stored in the data set B.

The data structure is the same as that of the data set B, except for the analyzed site in the header 1.

[data structure of the data set B: every 3 minutes]

Line 1: header 1

Column 1: cruise code

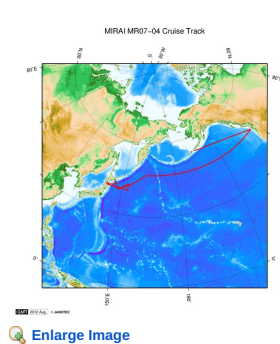
Column 2: sequential record number

Line 2: header 2

date

date
Line 3: header 3
Column 1: longitude (degree E)
Column 2: latitude (degree N)
Line 4-38: flow data in each depth level
Column 1: depth (m)
Column 2: zonal velocity (m/s)
Column 3: meridional velocity (m/s)

Related Information



MR07-04
Ship Name: MIRAI
Period: 2007-07-24 - 2007-09-03
Chief Scientist: Takeshi Kawano (JAMSTEC)
Project Name: [POST-WOCE Hydrography]

Update History

2017-04-11	An observation data was registerd.
2012-12-06	An observation data was registerd.
2012-10-26	An observation data was registerd.

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SHINKAI 6500
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YOKOSUKA DEEP TOW
6K Camera DEEP TOW
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KM-ROV
POWER GRAB SAMPLER (SHELL)
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BMS

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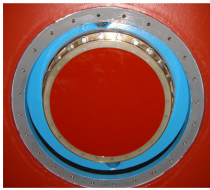
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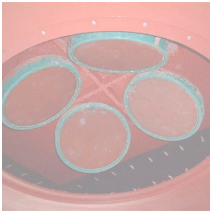
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- Data structure of each profile

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(2) adcp_***_*.b.txt

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The data structure is the same as that of the data set B, except for the analyzed site in the header 1.

[data structure of the data set B: every 3 minutes]

Line 1: header 1

Column 1: cruise code

Column 2: sequential record number

Line 2: header 2

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Column 1: longitude (degree E)

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Related Information

MR07-04

Ship Name: MIRAI

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

Chief Scientist: Takeshi Kawano (JAMSTEC)

Project Name: [POST-WOCE Hydrography]



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POWER GRAB SAMPLER (SHELL)

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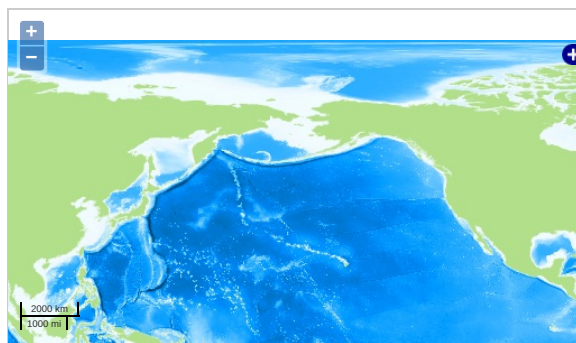
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Observation Map



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

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☐ File names

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☐ adcp_P14_1_b.txt

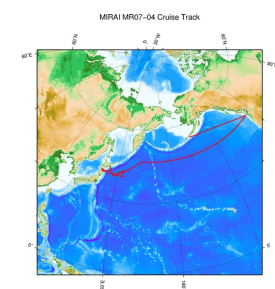
☐ adcp_P14_2_a.txt

☐ adcp_P14_2_b.txt

☐ adcp_P1_1_a.txt

☐ adcp_P1_1_b.txt

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