

MIRAI MR06-04 Leg1 Doppler Radar

Last Modified: 2017-02-24

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Cruise ID: [MR06-04 Leg1](#)

Doppler Radar: Raw

Data Policy: [JAMSTEC](#)

Observation Items: Reflectivity, Doppler velocity

Science Keywords:

ATMOSPHERE > PRECIPITATION
ATMOSPHERE > CLOUDS
ATMOSPHERE > ATMOSPHERIC WINDS
SPECTRAL/ENGINEERING > RADAR > DOPPLER VELOCITY
SPECTRAL/ENGINEERING > RADAR > RADAR REFLECTIVITY

Cruise Report

http://www.godac.jamstec.go.jp/catalog/data/doc_catalog/media/MR06-04_leg1-2_all.pdf

For Using Data

Principal Investigator

Data Management Office

Use Constraints

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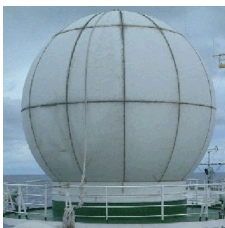
Data Citation

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

Instrument

Instrument:

Doppler radar (- MR14-02)



Specifications

Manufacturer/model: Mitsubishi Electric Co. Ltd., Japan / RC-52B
Location (from sea surface): 18m
Frequency: 5290MHz (C band)
Peak power: 250kW
Beam angle: <1.5degree
Inertial navigation system
Manufacturer/model: IXSEA SAS, France / PHINS
Processing system
Manufacturer/model: Vaisala Inc. Sigmet Product Line, USA / RVP-7
Data acquisition software
Manufacturer/model: Vaisala Inc. Sigmet Product Line, USA / IRIS ver. 8.5.10

Parameter

	Surveillance scan	Volume scan
Pulse width [μ s]	2.0	0.5
Scan speed [deg/sec]	18	18
PRF *1 [Hz]	260	900 / 720 *2
Sweep integration	32 samples	32 samples
Ray spacing [deg]	about 1.0	about 1.0
Bin spacing [m]	250	125
Elevations [deg]	0.5	0.5, 1.2, 2.0, 3.0, 4.0, 5.0, 6.0, 7.0, 8.0, 9.0, 10.1, 11.3, 12.8, 14.6, 16.6, 18.9, 21.6, 25.0, 29.0
Range [km]	300	160
Scan interval	10 min	10 min

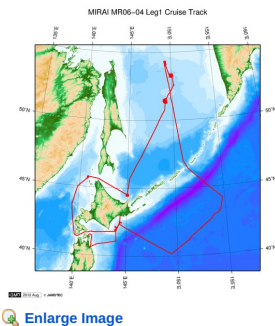
*1 Pulse Repetition Frequency

*2 During this cruise, the data were measured with the dual-PRF mode. Therefore, unfolding of Doppler velocity was applied automatically.

Need raw data?

If you would like the raw data set, please contact us from "Contact Us" above.

Related Information



MR06-04 Leg1

Ship Name: MIRAI

Period: 2006-07-31 - 2006-08-19

Chief Scientist: Naomi Harada (JAMSTEC)

Project Name: [Paleoceanography Research]

Update History

2017-02-24	An observation data was registerd.
------------	------------------------------------

JAMSTEC

Site Policy

Privacy Policy

Application for Data and Samples

Data Policy

What's New

Update History

Feeds

Lists

Publication List

Amount of Public Info.

Data

Map Search

Data Tree

Detailed Search

Information of the Ships

NATSUSHIMA

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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

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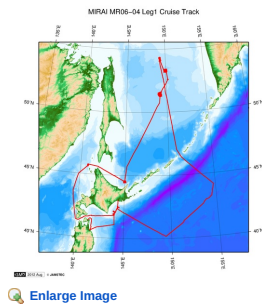
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[Site Policy](#)
[Privacy Policy](#)
[Application for Data and Samples](#)
[Data Policy](#)
What's New
[Update History](#)
[Feeds](#)

Lists
[Publication List](#)
[Amount of Public Info.](#)
Data
[Map Search](#)
[Data Tree](#)
[Detailed Search](#)

Information of the Ships
[NATSUSHIMA](#)
[KAIYO](#)
[YOKOSUKA](#)
[MIRAI](#)
[KAIREI](#)
[CHIKYU](#)
[KAIMEI](#)
[SHINSEI MARU](#)
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[SHINKAI 2000](#)
[SHINKAI 6500](#)
[DEEP TOW](#)
[HYPER-DOLPHIN](#)
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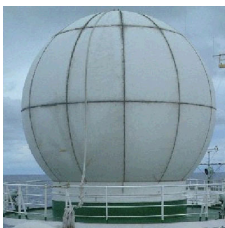
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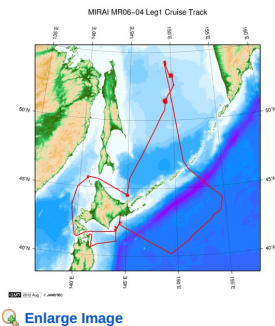
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Lists

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