

MIRAI MR99-K01 Doppler Radar

Last Modified: 2016-11-23

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Cruise ID: [MR99-K01](#)

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/MR99-K01_all.pdf

For Using Data

Principal Investigator

Data Management Office

Use Constraints

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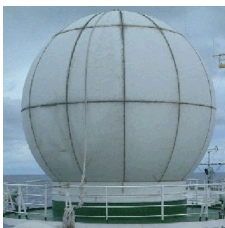
Data Citation

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: Honeywell Inc., USA / DRUH
Processing system
Manufacturer/model: Vaisala Inc. Sigmet Product Line, USA / RVP-6
Data acquisition software
Manufacturer/model: Vaisala Inc. Sigmet Product Line, USA / IRIS ver. 6.07

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]	0.7	0.0, 0.7, 1.4, 2.1, 2.8, 3.6, 4.6, 5.8, 7.2, 8.8, 10.6, 12.6, 14.8, 18.0, 22.0, 27.0, 32.0, 40.0
Range [km]	300	160
Scan interval	30 min	10 min

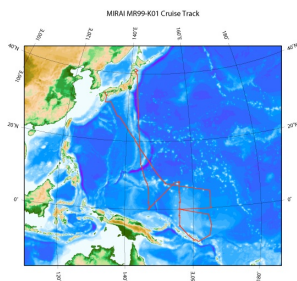
*1 Pulse Repetition Frequency

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

About this data

If you need the raw data set, please refer to "Contact Us" above.

Related Information



Enlarge Image

MR99-K01

Ship Name: MIRAI

Period: 1999-02-07 - 1999-03-31

Chief Scientist: Yoshifumi Kuroda (JAMSTEC)

Project Name: [Tropical Ocean Climate Study (TOCS)]

Update History

2016-11-23	An observation data was registered.
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Site Policy

Privacy Policy

Application for Data and Samples

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What's New

Update History

Feeds

Lists

Publication List

Amount of Public Info.

Data

Map Search

Data Tree

Detailed Search

Information of the Ships

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MIRAI

KAIREI

CHIKYU

KAIMEI

SHINSEI MARU

HAKUHO MARU

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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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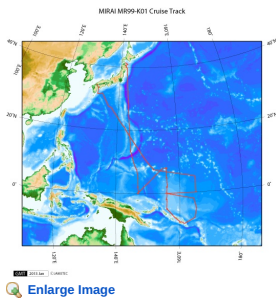
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[Update History](#)
[Feeds](#)

Lists
[Publication List](#)
[Amount of Public Info.](#)

Data
[Map Search](#)
[Data Tree](#)
[Detailed Search](#)

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[YOKOSUKA](#)
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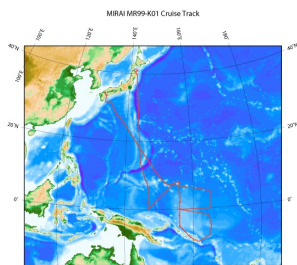
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[Update History](#)

[Feeds](#)

Lists

[Publication List](#)

[Amount of Public Info.](#)

Data

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[Data Tree](#)

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