

## MIRAI MR05-03 Leg1 Doppler Radar

Last Modified: 2016-11-23

### ReadMe

Cruise ID: [MR05-03 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/MR05-03\\_leg1-3\\_all.pdf](http://www.godac.jamstec.go.jp/catalog/data/doc_catalog/media/MR05-03_leg1-3_all.pdf)

### For Using Data

#### Principal Investigator

Data Management Office

JAMSTEC / BPPT joint cruise in the Indonesian waters.

#### Use Constraints

See [Terms and Conditions](#) about constrain of use.

#### 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-7  
Data acquisition software  
Manufacturer/model: Vaisala Inc. Sigmet Product Line, USA / IRIS ver. 8.5.10

### Parameter

	Surveillance scan	Volume scan
Pulse width [ $\mu$ 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, 34.0, 40.0
Range [km]	300	160
Scan interval	30 min	10 min

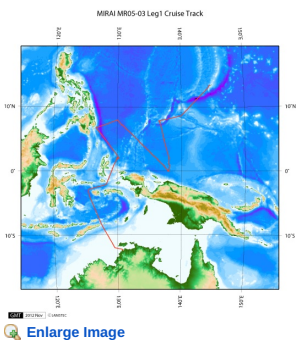
\*1 Pulse Repetition Frequency

\*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



#### MR05-03 Leg1

Ship Name: MIRAI

Period: 2005-07-03 - 2005-07-25

Chief Scientist: Kentaro Ando (JAMSTEC)

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

#### Update History

2016-11-23	An observation data was registerd.
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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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**JAMSTEC**

国立研究開発法人  
海洋研究開発機構  
JAPAN AGENCY FOR MARINE-EARTH SCIENCE AND TECHNOLOGY

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Data Management Office

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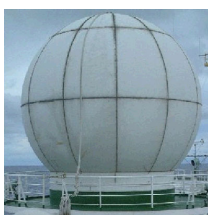
##### Data Citation

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### Instrument

Instrument:

Doppler radar (- MR14-02)



### Specifications

Manufacturer/model:	Mitsubishi Electric Co. Ltd., Japan / RC-52B
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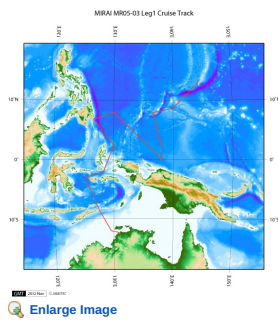
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### Related Information



**MR05-03 Leg1**  
Ship Name: MIRAI  
Period: 2005-07-03 - 2005-07-25  
Chief Scientist: Kentaro Ando (JAMSTEC)  
Project Name: [Tropical Ocean Climate Study (TOCS)]

#### Update History

Date	Description
2016-11-23	An observation data was registerd.

#### JAMSTEC

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#### Information of the Ships

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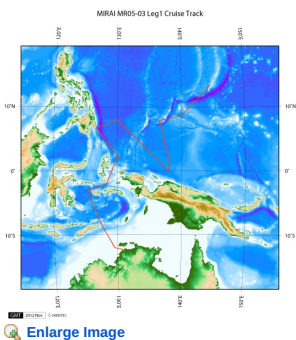
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