

## MIRAI MR05-03 Leg3 Doppler Radar

Last Modified: 2016-11-23

### ReadMe

Cruise ID: [MR05-03 Leg3](#)

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

##### 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

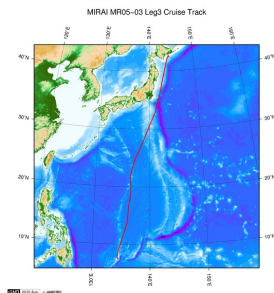
\*1 Pulse Repetition Frequency

\*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



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#### MR05-03 Leg3

Ship Name: MIRAI

Period: 2005-08-25 - 2005-09-05

Chief Scientist: Shuichi Mori (JAMSTEC)

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

#### Update History

2016-11-23	An observation data was registerd.
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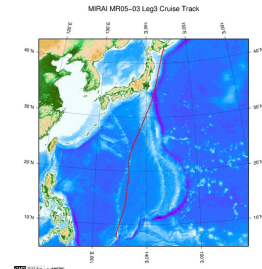
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Chief Scientist: Shuichi Mori (JAMSTEC)

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

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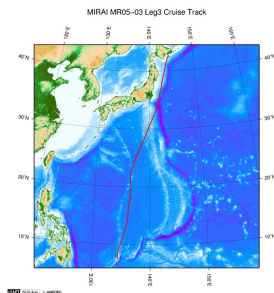
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