

## MIRAI MR99-K03 Doppler Radar

Last Modified: 2016-11-23

### ReadMe

Cruise ID: [MR99-K03](#)

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-K03\\_all.pdf](http://www.godac.jamstec.go.jp/catalog/data/doc_catalog/media/MR99-K03_all.pdf)

#### For Using Data

##### Principal Investigator

Data Management Office

##### Use Constraints

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

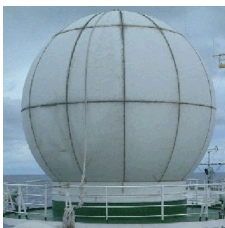
##### Data Citation

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

### Parameter

	Surveillance scan	Volume scan
Pulse width [μs]	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	0.7, 1.4, 2.1, 3.0, 4.0, 5.0, 6.0, 7.1, 8.2, 9.5, 11.0, 12.5, 14.5, 17.0, 20.0, 24.0, 30.0
Range [km]	300	160
Scan interval	30 min	10 min

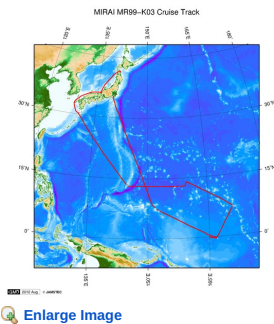
\*1 Pulse Repetition Frequency

\*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



**MR99-K03**  
Ship Name: MIRAI  
Period: 1999-06-08 - 1999-07-19  
Chief Scientist: Kunio Yoneyama (JAMSTEC)  
Project Name: [MJO Research]

#### Update History

2016-11-23	An observation data was registerd.
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**Information of the Submersibles**  
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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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Dive ID:

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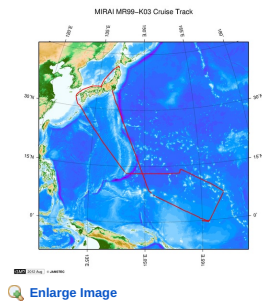
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Chief Scientist: Kunio Yoneyama (JAMSTEC)  
Project Name: [MJO Research]

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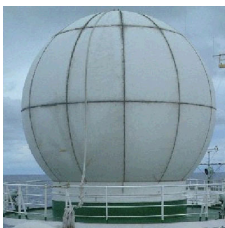
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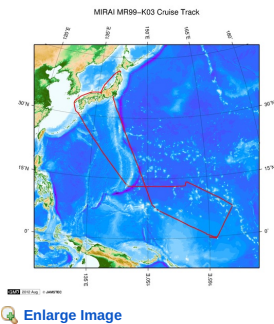
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