

MIRAI MR07-07 Leg1 Doppler Radar

Last Modified: 2016-11-23

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Cruise ID: [MR07-07 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/MR07-07_leg1_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: 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 [μs]	2.0	0.5
Scan speed [deg/sec]	18	18
PRF *1 [Hz]	260	900 / 720 *2
Sweep integration	32 samples	40 samples
Ray spacing [deg]	about 1.0	about 1.0
Bin spacing [m]	250	250
Elevations [deg]	0.5	0.5, 1.0, 1.8, 2.6, 3.4, 4.2, 5.0, 5.8, 6.7, 7.7, 8.9, 10.3, 12.3, 14.5, 17.1, 20.0, 23.3, 27.0, 31.0, 35.4, 40.0
Range [km]	300	160
Scan interval	30 min	10 min

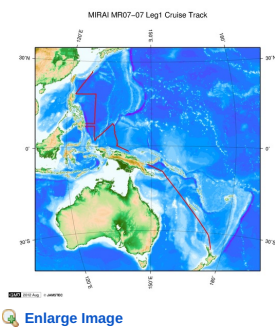
*1 Pulse Repetition Frequency

*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



MR07-07 Leg1

Ship Name: MIRAI

Period: 2007-12-27 - 2008-01-25

Chief Scientist: Yuji Kashino (JAMSTEC)

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

Update History

2016-11-23	An observation data was registerd.
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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

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JAPAN AGENCY FOR MARINE EARTH SCIENCE AND TECHNOLOGY

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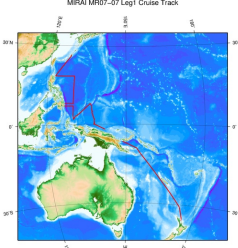
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Related Information



MIRAI MR07-07 Leg1 Cruise Track

Enlarge Image

MR07-07 Leg1

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6K Sonar DEEP TOW

KM-ROV

POWER GRAB

SAMPLER (SHELL)

POWER GRAB

SAMPLER (CLOW)

BMS

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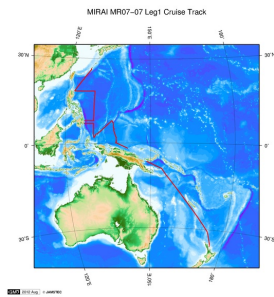
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