

## MIRAI MR14-05 Gravity

Last Modified: 2019-07-23

### ReadMe

Cruise ID: [MR14-05](#)

Gravity: Raw

Data Policy: [JAMSTEC](#)

Observation Items: Absolute gravity

Science Keywords:

OCEANS > MARINE GEOPHYSICS > MARINE GRAVITY FIELD  
SOLID EARTH > GEODETICS/GRAVITY > GRAVITY

### Cruise Report

[http://www.godac.jamstec.go.jp/catalog/data/doc\\_catalog/media/MR14-05\\_all.pdf](http://www.godac.jamstec.go.jp/catalog/data/doc_catalog/media/MR14-05_all.pdf)

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##### Principal Investigator

Data Management Office

##### Use Constraints

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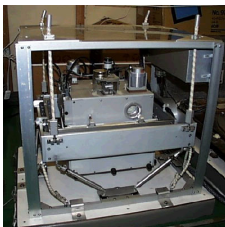
##### Data Citation

See [Terms and Conditions](#) about data citation.

### Instrument

Instrument:

Shipboard gravimeter



Instrument:

Microgravimeter (MR11-06 - )



### Measurement System

#### (1) Shipboard gravity meter

The system consists of two main assemblies; the gyro-stabilized platform including the gravity sensor and the data handling & control system.

Manufacturer : LaCoste & Romberg

Model : S-116

Measuring range : 12,000 mGal

Accuracy : 1.0 mGal

Drift rate : < 3.0 mGal/month

Installation : Gravity meter room

Reference: 「Model "S" Air-Sea Dynamic Gravity Meter SystemII」 INSTRUCTION MANUAL LaCoste and Romberg Gravity Meters, Inc. 2004

#### (2) Portable gravity meter

The portable gravity meter consists of two modules; the data acquisition/control module and the gravity sensor module. The gravity sensor is enclosed in a thermostatically controlled vacuum chamber. The portable gravity meter is used to calculate the absolute gravity of the port with reference to the gravity station of the Japan Gravity Standardization Net of the Geographical Survey Institute of Japan.

Manufacturer : SCINTREX

Model : CG-5

Measurement range : 8,000 mGal

Standard deviation : 0.005 mGal

Drift rate : < 0.02 mGal/day

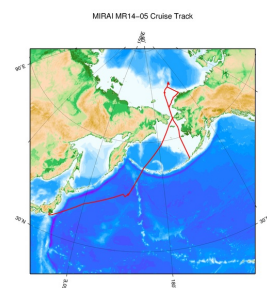
Reference: "CG-5 OPERATION MANUAL", SCINTREX

### About this data

We have no plan to process the data due to equipment failure etc.

Please refer to the "Contact Us" if you wish to use the raw data.

### Related Information



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#### MR14-05

Ship Name: MIRAI

Period: 2014-08-31 - 2014-10-10

Chief Scientist: Jun Inoue (JAMSTEC)

Project Name: [Arctic Ocean Climate System Reaserch]

Proposal ▶ Predictability study of Arctic cyclones

Title:

Update History	
2019-07-23	An observation data was registerd.
2018-08-25	An observation data was registerd.

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SHINKAI 6500  
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HYPER-DOLPHIN  
URASHIMA  
YOKOSUKA DEEP TOW  
6K Camera DEEP TOW  
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KM-ROV  
POWER GRAB SAMPLER (SHELL)  
POWER GRAB SAMPLER (CLOW)  
BMS

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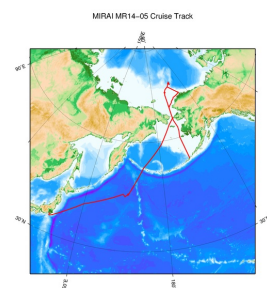
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Chief Scientist: Jun Inoue (JAMSTEC)

Project Name: [Arctic Ocean Climate System Research]

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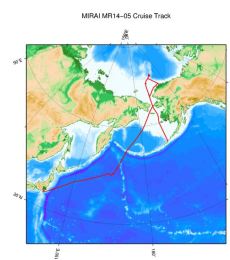
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