

SHINSEI MARU KS-17-J04 Gravity

Last Modified: 2019-07-31

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Cruise ID: [KS-17-J04](#)

Gravity: Raw

Data Policy: [JAMSTEC](#)

Observation Items: Absolute gravity

Science Keywords:

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

Cruise Report

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Data Management Office

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Instrument

Instrument:

Shipboard gravimeter



Instrument:

Microgravimeter



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 : Micro-g LaCoste
Model : S-177
Measuring range : 20,000 mGal
Accuracy : 1.0 mGal
Drift rate : < 3.0mGal/month
Installation : Gravity meter room

Reference: "Air-Sea Systemll Marine Gravity Meter User Manual", Micro-g LaCoste

(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

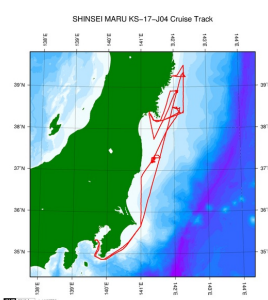
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KS-17-J04

Ship Name: SHINSEI MARU

Period: 2017-02-11 - 2017-02-27

Chief Scientist: Shinji Tsuchida (JAMSTEC)

Project Name: [Tohoku Ecosystem-Associated Marine Sciences (TEAMS)]

Proposal Researches on marine ecosystem dynamics off Sanriku

Title:

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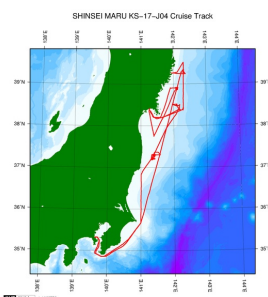
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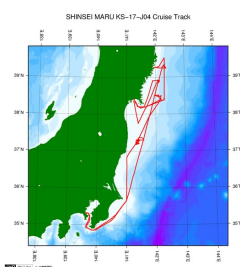
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