

SHINSEI MARU KS-21-9 Gravity

Last Modified: 2021-12-01

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Cruise ID: [KS-21-9](#)

Gravity: Raw

Data Policy: [JURCAOS-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/KS-21-9_all.pdf

For Using Data

Principal Investigator

Data Management Office

Use Constraints

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Data Citation

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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

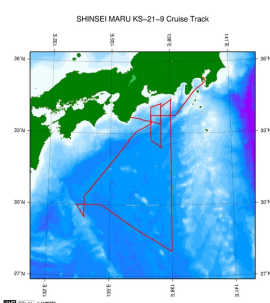
Reference:"CG-5 OPERATION MANUAL", SCINTREX

About this data

We have no plan to process the data because we could not obtain absolute gravity data as a reference point.

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

Related Information



 [Enlarge Image](#)

KS-21-9

Ship Name: SHINSEI MARU

Period: 2021-05-24 - 2021-05-31

Chief Scientist: Hatsumi Nishikawa (The University of Tokyo)

Proposal Impact of the Kuroshio Large Meander on the formation and advection of Subtropical Mode

Title: Water and the sea conditions and weather in the coastal area of Enshu-nada

Update History

2021-12-01	An observation data was registerd.
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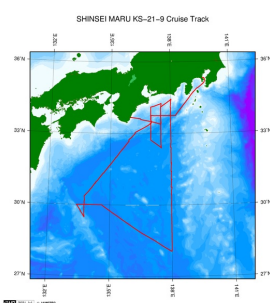
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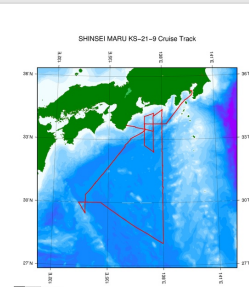
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