

## KAIREI KR20-13S Gravity

Last Modified: 2022-02-25

### ReadMe

Cruise ID: [KR20-13S](#)

Gravity: Raw

Data Policy: [JURCAOS-JAMSTEC](#)

Observation Items: Absolute gravity

Science Keywords:

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

#### 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:

Shipboard gravimeter (KR16-E03 - )



Instrument:

Microgravimeter (KR08-02 - )



### 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, Inc.

Model : MGS-6

Measuring range : 500,000 mGal

Accuracy : 0.6 mGal

Drift rate : < 3.0 mGal/month

Installation : Gravity meter room

Reference: "MGS-6 Marine Gravity System 6 User's Manual", Micro-g LaCoste 2015

#### (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

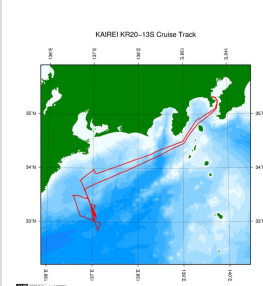
Reference: "CG-5 OPERATION MANUAL", SCINTREX

### About this data

We have no plan to process the data due to equipment adjustment.

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

### Related Information



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#### KR20-13S

Ship Name: KAIKEI

Period: 2020-12-01 - 2020-12-10

Chief Scientist: Tadanori Goto (University of Hyogo)

### Update History

2022-02-25 An observation data was registered.

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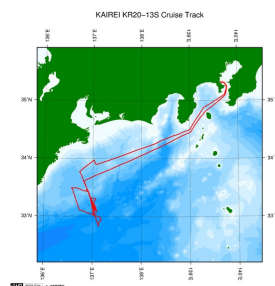
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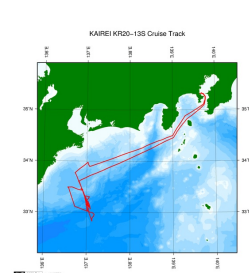
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