

## SHINSEI MARU KS-17-J05 Bottle Sampling Water Chemical Analysis

Last Modified: 2020-11-10

[ReadMe](#) [Observation Data](#) [Data Format](#) [Quality Information](#)

Cruise ID: **KS-17-J05**

Bottle Sampling Water Chemical Analysis: Processed (PI)

Data Policy: **JAMSTEC**

**Observation Items:** Temperature, Practical salinity, Transmittance, Dissolved oxygen, Silicate, Nitrate, Nitrite, Phosphate, Ammonia, Chlorophyll, Alkalinity, Dissolved Inorganic Carbon, Dissolved Organic Carbon, LTA, Total Dissolved Nitrogen, 18O

**Science Keywords:**

OCEANS > OCEAN CHEMISTRY > AMMONIA  
OCEANS > OCEAN CHEMISTRY > INORGANIC CARBON  
OCEANS > OCEAN CHEMISTRY > NITRATE  
OCEANS > OCEAN CHEMISTRY > NUTRIENTS  
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OCEANS > OCEAN CHEMISTRY > CARBON  
OCEANS > OCEAN CHEMISTRY > STABLE ISOTOPES

**Cruise Report**

[http://www.godac.jamstec.go.jp/catalog/data/doc\\_catalog/media/KS-17-J05\\_all.pdf](http://www.godac.jamstec.go.jp/catalog/data/doc_catalog/media/KS-17-J05_all.pdf)

**For Using Data**

**Principal Investigator**

Masahide Wakita (JAMSTEC)

**Use Constraints**

See [Terms and Conditions](#) about constrain of use.

**Data Citation**

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

**Data Citation**

Please contact PI (Masahide Wakita :mwakita@jamstec.go.jp)

**Overview**

**Summary of Instruments**

Salinity : Autosal salinometer model 8400B (Guildline Instruments Ltd)

Dissolved oxygen : Automatic photometric titrator (Kimoto Electronic Co. Ltd)

Nutrients : QuAAtro 2-HR (SEAL · BLTEC)

Chl.a: Fluorometer 10-AU-005 (Tuner Design)

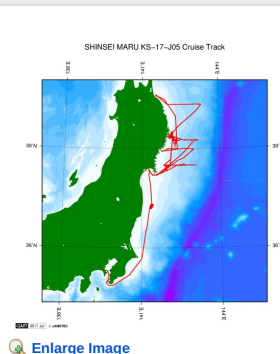
Dissolved inorganic carbon : Carbon coulometer 5012 (UIC Inc.)

Total alkalinity : Total alkalinity titrator ATT-15 (KIMOTO ELECTRIC CO.,LTD.)

Dissolved organic carbon and Total dissolved nitrogen : Total Organic Carbon Analyzer TOC-L (Shimadzu Co.)

Oxygen isotope ratio of seawater : Stable Isotope Ratio Mass Spectrometer MAT253 (Thermo Fisher Scientific)

### Related Information



[Enlarge Image](#)

#### KS-17-J05

Ship Name: SHINSEI MARU

Period: 2017-03-12 - 2017-03-30

Chief Scientist: Masahide Wakita (JAMSTEC)

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

Proposal Title: Marine Ecosystems Investigation, Impact by the mega-earthquake (the 2011 Earthquake of the Pacific coast of Tohoku) and Tsunami: For Recovery and Rebuilding of Sanriku Fisheries Activities

### Update History

2020-11-10	An observation data was registered.
2019-06-28	An observation data was registered.

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[Amount of Public Info.](#)  
  
**Data**  
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#### Information of the Ships

NATSUSHIMA  
KAIYO  
YOKOSUKA  
MIRAI  
KAIREI  
CHIKYU  
KAIMEI  
SHINSEI MARU

#### Information of the Submersibles

KAIKO  
SHINKAI 2000  
SHINKAI 6500  
DEEP TOW  
HYPER-DOLPHIN  
URASHIMA  
YOKOSUKA DEEP TOW  
6K Camera DEEP TOW

#### Go to a Cruise Information

Cruise ID:

#### Go to a Dive Information

Dive ID:

HAKUHO MARU

6K Sonar DEEP TOW

KM-ROV

POWER GRAB SAMPLER  
(SHELL)

POWER GRAB SAMPLER  
(CLOW)

BMS

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**JAMSTEC**

国立研究開発法人  
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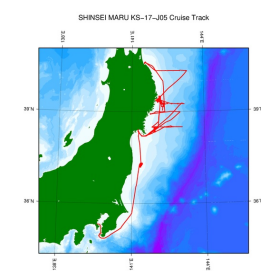
Bottle Sampling Water Chemical Analysis: Processed (PI)

Data Policy: **JAMSTEC**

### Format Information

Column No.	Column Heading	Comments
1	Cruise	Cruise Label
2	Type	Station type
3	Station	Station name–Cast number
4	Year	Cast year
5	Month	Cast month
6	Day	Cast day
7	Hour	Cast time(hour)
8	Minute	Cast time(minute)
9	LATITUDE	Latitude
10	LONGITUDE	Longitude
11	Bot. depth	Reported depth to bottom.
12	Pressure [db]	Pressure
13	QF	Quality flags for CTD data
14	Depth [m]	Depth
15	Temp. [C]	Temperature
16	QF	Quality flags for CTD data
17	Salinity-SBE	CTD Salinity
18	QF	Quality flags for CTD data
19	Light transmission [%]	Light transmission from CTD
20	QF	Quality flags for CTD data
21	Salinity-Bottle	Bottle salinity
22	QF	Quality flags for water samples
23	Oxygen [umol/kg]	Oxygen
24	QF	Quality flags for water samples
25	Silicate [umol/kg]	Silicate
26	QF	Quality flags for water samples
27	Nitrate [umol/kg]	Nitrate
28	QF	Quality flags for water samples
29	Nitrite [umol/kg]	Nitrite
30	QF	Quality flags for water samples
31	Phosphate [umol/kg]	Phosphate
32	QF	Quality flags for water samples
33	NH4 [umol/kg]	Ammonium
34	QF	Quality flags for water samples
35	Chl.a-Wel [ug/l]	Chlorophyll a : Non-acidification method (Welschmeyer, 1994)
36	QF	Quality flags for water samples
37	Chl.a-Hol [ug/l]	Chlorophyll a : Acidification method (Holm-Hansen <i>et al.</i> , 1965)
38	QF	Quality flags for water samples
39	TA [umol/kg]	Total alkalinity
40	QF	Quality flags for water samples
41	DIC [umol/kg]	Dissolved Inorganic Carbon
42	QF	Quality flags for water samples
43	DOC [umol/kg]	Dissolved Organic Carbon
44	QF	Quality flags for water samples
45	LTA [%]	LTA
46	QF	Quality flags
47	TDN [umol/kg]	Total Dissolved Nitrogen
48	QF	Quality flags for water samples
49	18O	Oxygen isotope ratio of seawater
50	QF	Quality flags for water samples

### Related Information



[Enlarge Image](#)

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Chief Scientist: Masahide Wakita (JAMSTEC)  
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SAMPLER (SHELL)  
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SAMPLER (CLOW)  
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Dive ID:

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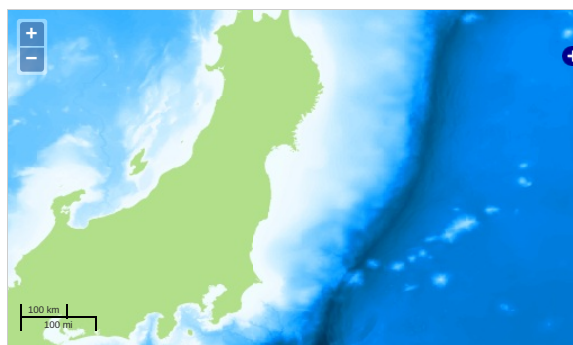
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### Observation Map



Imagery reproduced from ...

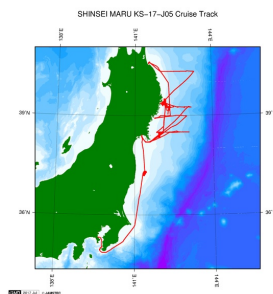
— ... Observation Line — ... Navigation ● ... Observation, Dive Point, Hole

### Data List

**File names**

☐ KS-17-J05\_bottle\_data.xlsx

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