

MIRAI MR09-03 Leg2 Conductivity-Temperature-Depth Profiler (CTD)

Last Modified: 2014-08-06

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

Cruise ID: [MR09-03 Leg2](#)

Conductivity-Temperature-Depth Profiler (CTD): Processed (PI)

Data Policy: [JAMSTEC](#)

Observation Items: Pressure, Temperature, Salinity, Dissolved oxygen

Science Keywords:

OCEANS > OCEAN CHEMISTRY > OXYGEN
OCEANS > OCEAN TEMPERATURE > WATER TEMPERATURE
OCEANS > SALINITY/DENSITY > SALINITY

Cruise Report

http://www.godac.jamstec.go.jp/catalog/data/doc_catalog/media/MR09-03_leg1-3_all.pdf

[For Using Data](#)

Principal Investigator

Takashi Kikuchi (JAMSTEC)

Use Constraints

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

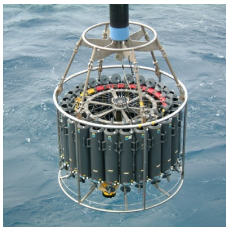
Data Citation

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

Instrument

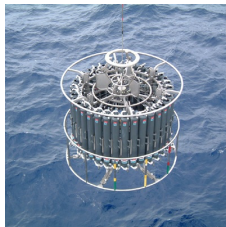
Instrument:

Water sampling system with CTD (30
litters * 24 bottles)



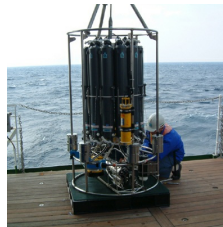
Instrument:

Water sampling system with CTD (12
litters * 36 bottles)



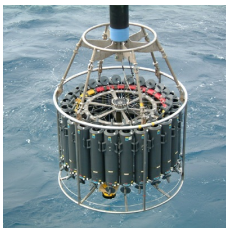
Instrument:

Water sampling system with CTD (12
litters * 12 bottles)



Instrument:

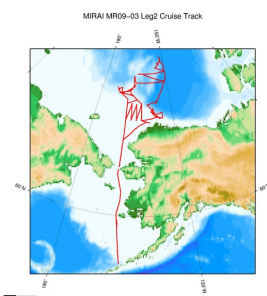
Conductivity temperature depth
measurements (CTD)



Overview

[Please see here for the cruise report.](#)

Related Information



[Enlarge Image](#)

MR09-03 Leg2

Ship Name: MIRAI

Period: 2009-09-07 - 2009-10-15

Chief Scientist: Takashi Kikuchi (JAMSTEC)

Project Name: [Arctic Ocean Climate System Research]

Proposal ▶ Multi-disciplinary observation cruise for the Arctic Ocean

Title:

Update History

2014-08-06	An observation data was registered.
2012-09-28	An observation data was registered.

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[Feeds](#)

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[Data Tree](#)
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[6K Sonar DEEP TOW](#)
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[BMS](#)

Cruise ID:

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Dive ID:

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JAMSTEC
JAPAN AGENCY FOR MARINE-EARTH SCIENCE AND TECHNOLOGY

国立研究開発法人
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CTD WOCE-type2

Format Description for the Corrected Data

Provided in the Exchange Format of CCHDO (CLIVAR and Carbon Hydrographic Data Office). Please see the following link for details of Exchange Format.

[CCHDO | CLIVAR & Carbon Hydrographic Data Office](#)

Data in following cruise is not expressed with Exchange Format. Please see the site of each cruise for format.

MR02-K05 Leg1

MR04-05

Format Description for the QCed Data

Each data file contains one line header (meta data) followed by data lines for each cast.

The number of data lines are recorded in the header.

Header part

No.	Column	Content	Format	Remarks
1	1	Header ID	a1	fixed as '#'
2	3 - 6	Data ID	a4	CTD
3	8 - 22	Cruise ID	a15	MYYY-(K)XX(_legx)
4	24 - 31	Cast name	a8	
5	33 - 40	Date	i8	YYYYMMDD (UTC)
6	42 - 45	Time	i4	hhmm (UTC)
7	47 - 55	Latitude	i2,a1,f5.2,a1	dd-mm.mmN(S)
8	57 - 66	Longitude	i3,a1,f5.2,a1	ddd-mm.mmE(W)
9	68 - 71	Number of data lines	i4	
10	72 - 73	Terminator	-	CR+LF

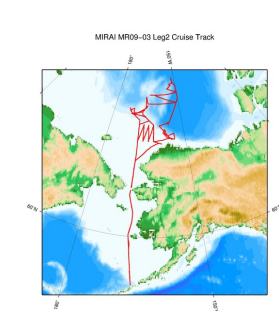
Data part

No.	Column	Content	Unit	Format	Remarks
1	1 - 11	Pressure	dbar	f11.3	
2	12 - 22	Temperature	deg-C	f11.4	ITS-90
3	23 - 33	Salinity	PSU	f11.4	PSS-78
4	34 - 44	Dissolved oxygen	umol/kg	f11.3	
5	45 - 55	Flag	-	i11	1 - 7 : space 8 : flag of pressure 9 : flag of temperature 10 : flag of salinity 11 : flag of dissolved oxygen * reference : Definition of Quality Control Flags
6	56 - 57	Terminator	-	-	CR+LF

Each contents of the data part is stored in 11 bytes.

Missing value is presented by '-5', and error value is presented by '-9'.

Related Information



[Enlarge Image](#)

MR09-03 Leg2

Ship Name: MIRAI

Period: 2009-09-07 - 2009-10-15

Chief Scientist: Takashi Kikuchi (JAMSTEC)

Project Name: [Arctic Ocean Climate System Reaserch]

Proposal ▶ Multi-disciplinary observation cruise for the Arctic Ocean

Title:

Update History

2014-08-06	An observation data was registerd.
2012-09-28	An observation data was registerd.

Feeds

SHINSEI MARU
HAKUHO MARU

6K Camera DEEP TOW
6K Sonar DEEP TOW
KM-ROV
POWER GRAB SAMPLER
(SHELL)
POWER GRAB SAMPLER
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BMS

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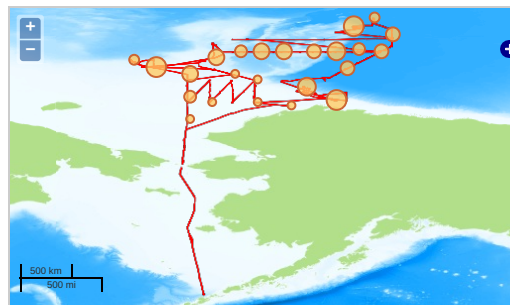
Observation Items: Pressure, Temperature, Salinity, Dissolved oxygen

Science Keywords:

OCEANS > OCEAN CHEMISTRY > OXYGEN
OCEANS > OCEAN > WATER
TEMPERATURE TEMPERATURE
OCEANS > SALINITY/DENSITY > SALINITY

Observation Map

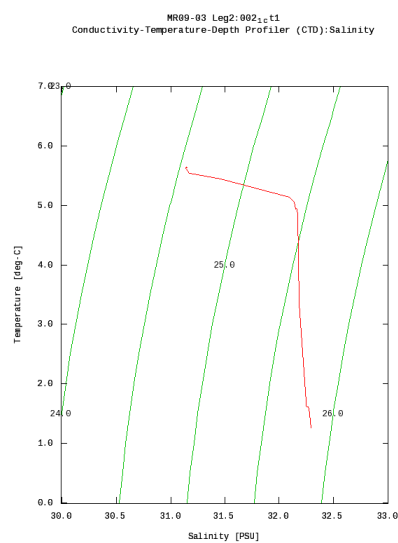
1. Clicking the icon displays a balloon with observation information.
2. Then click the observation name, figures will be displayed.



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

Figures

002_1_ct1



Data List

[Add to Basket](#)

File names

<input type="checkbox"/>	002_1_ct1.csv
<input type="checkbox"/>	003_1_ct1.csv
<input type="checkbox"/>	004_1_ct1.csv
<input type="checkbox"/>	005_1_ct1.csv
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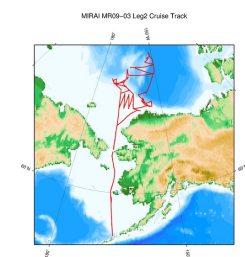
 file names.csv
 089_1_ct1.csv
 090_1_ct1.csv
 091_1_ct1.csv

- Observation List
The list of observation is shown as follows.

Observation	Time and Date	Lat. [°]	Lon. [°]
002_1_ct1	2009-09-11 03:03	69.9938	-167.9992
003_1_ct1	2009-09-11 14:05	71.9698	-167.9957
004_1_ct1	2009-09-11 20:28	72.9910	-167.9648
005_1_ct1	2009-09-12 03:05	73.9953	-167.9965
006_1_ct1	2009-09-12 09:30	74.6000	-170.9967
007_1_ct1	2009-09-12 14:35	74.9987	-172.4050
008_1_ct1	2009-09-12 17:50	75.2497	-172.9645
009_1_ct1	2009-09-13 07:30	75.3365	-171.0307
009_2_ct1	2009-09-13 10:25	75.3397	-171.0285
010_1_ct1	2009-09-13 21:17	74.6008	-170.9122
011_1_ct1	2009-09-14 04:50	74.8022	-169.5058
012_1_ct1	2009-09-14 07:51	75.0335	-168.1658
013_1_ct1	2009-09-14 10:40	75.2673	-166.8333
014_1_ct1	2009-09-14 18:21	75.4703	-165.6677
015_1_ct1	2009-09-15 20:46	76.6385	-165.6818
016_1_ct1	2009-09-16 05:00	76.0008	-164.0545
017_1_ct1	2009-09-16 08:54	76.0042	-163.4805
018_1_ct1	2009-09-16 12:29	76.0032	-162.9818
019_1_ct1	2009-09-16 16:15	76.0013	-161.6600
019_2_ct1	2009-09-16 20:56	76.0160	-161.6232
020_1_ct1	2009-09-17 01:35	76.0005	-160.3467
021_1_ct1	2009-09-17 04:05	75.9988	-159.6705
022_1_ct1	2009-09-17 08:30	76.0030	-158.9988
023_1_ct1	2009-09-17 11:07	76.0003	-157.9975
024_1_ct1	2009-09-17 13:41	75.9997	-157.0023
025_1_ct1	2009-09-17 17:43	76.0038	-156.4057
026_1_ct1	2009-09-17 21:34	76.0050	-155.8405
027_1_ct1	2009-09-17 23:05	76.0003	-155.4398
028_1_ct1	2009-09-18 02:40	76.0000	-155.0065
029_1_ct1	2009-09-18 08:55	75.9997	-153.5018
030_1_ct1	2009-09-18 15:05	76.0000	-151.0078
030_2_ct1	2009-09-18 19:36	76.0377	-151.0900
031_1_ct1	2009-09-19 02:10	76.4967	-149.9928
032_1_ct1	2009-09-19 08:40	76.9995	-149.9995
033_1_ct1	2009-09-19 16:46	77.5078	-149.9970
034_1_ct1	2009-09-20 00:37	77.9993	-149.9698
035_1_ct1	2009-09-20 19:18	79.0023	-151.6177
036_1_ct1	2009-09-21 04:24	78.4995	-151.6698
037_1_ct1	2009-09-21 15:36	78.2243	-153.4670
038_1_ct1	2009-09-21 18:16	78.1682	-152.4982
039_1_ct1	2009-09-21 21:16	78.0837	-152.8348
040_1_ct1	2009-09-22 02:26	77.9993	-153.3630
041_1_ct1	2009-09-22 04:26	77.9165	-153.8285
042_1_ct1	2009-09-22 06:40	77.8342	-154.2963
043_1_ct1	2009-09-22 13:34	77.6353	-153.8335
044_1_ct1	2009-09-22 16:08	77.5640	-153.1657
045_1_ct1	2009-09-22 19:15	77.5335	-152.8317
046_1_ct1	2009-09-23 01:00	77.2485	-150.0003
046_2_ct1	2009-09-23 05:17	77.2137	-149.9405
047_1_ct1	2009-09-23 18:03	77.0840	-156.0005
048_1_ct1	2009-09-23 23:27	77.0807	-159.0032
049_1_ct1	2009-09-24 03:27	77.0823	-160.9965
050_1_ct1	2009-09-24 09:00	77.0808	-163.9822
051_1_ct1	2009-09-24 11:59	77.0823	-162.5837
051_2_ct1	2009-09-24 16:37	77.0945	-162.7153
052_1_ct1	2009-09-25 04:41	76.3995	-155.0152
053_1_ct1	2009-09-25 06:39	76.3485	-154.5015
054_1_ct1	2009-09-25 09:35	76.3008	-154.0245
055_1_ct1	2009-09-25 13:15	76.1987	-152.9985
056_1_ct1	2009-09-25 22:51	75.5000	-152.0027
057_1_ct1	2009-09-26 06:25	74.9993	-153.0125
058_1_ct1	2009-09-26 13:48	74.5010	-154.0247
058_2_ct1	2009-09-26 17:47	74.5072	-154.0848
059_1_ct1	2009-09-27 00:25	74.0010	-154.9998
060_1_ct1	2009-09-27 04:55	73.6903	-155.5177
061_1_ct1	2009-09-28 15:54	71.6790	-154.9970
061_2_ct1	2009-09-28 16:13	71.6790	-154.9873
062_1_ct1	2009-09-28 18:19	71.7292	-155.1622
062_2_ct1	2009-09-28 19:56	71.7337	-155.1413
063_1_ct1	2009-09-28 22:11	71.8062	-155.3438
064_1_ct1	2009-09-29 01:49	71.6662	-153.9967
065_1_ct1	2009-09-29 03:05	71.7492	-154.0020
066_1_ct1	2009-09-29 03:55	71.8322	-153.9955
067_1_ct1	2009-09-29 06:00	71.9317	-153.9937
068_1_ct1	2009-09-29 08:50	72.0597	-154.0130

Observation	Time and Date	Lat. (°)	Lon. (°)
069_1_ct1	2009-09-29 10:40	72.1835	-154.8030
070_1_ct1	2009-09-29 14:31	72.3342	-154.0017
071_1_ct1	2009-09-29 18:13	72.3275	-154.4773
072_1_ct1	2009-09-29 21:18	72.2757	-154.9930
073_1_ct1	2009-09-29 23:20	72.2515	-155.4987
074_1_ct1	2009-09-30 01:15	72.1990	-156.0037
075_1_ct1	2009-09-30 10:01	72.8587	-157.6302
075_2_ct1	2009-09-30 18:04	72.8697	-157.6512
076_1_ct1	2009-09-30 21:25	72.7710	-157.7973
077_1_ct1	2009-09-30 22:40	72.7148	-157.9075
078_1_ct1	2009-10-01 00:50	72.5998	-158.1372
079_1_ct1	2009-10-01 02:45	72.5003	-158.3338
080_1_ct1	2009-10-05 02:16	74.6647	-172.0283
081_1_ct1	2009-10-05 05:58	74.5982	-170.0067
082_1_ct1	2009-10-05 09:35	74.5638	-168.0012
083_1_ct1	2009-10-05 19:48	74.4377	-165.7230
084_1_ct1	2009-10-06 11:58	73.9992	-163.9997
085_1_ct1	2009-10-06 15:54	73.7510	-165.9943
086_1_ct1	2009-10-06 20:02	73.5000	-168.0015
087_1_ct1	2009-10-07 17:20	72.4987	-167.0010
088_1_ct1	2009-10-08 11:35	71.4938	-166.0382
089_1_ct1	2009-10-09 22:45	73.4993	-162.0058
090_1_ct1	2009-10-10 11:28	71.5003	-161.9960
091_1_ct1	2009-10-10 19:00	71.1990	-159.0003

Related Information



[Enlarge Image](#)

MR09-03 Leg2

Ship Name: MIRAI
Period: 2009-09-07 - 2009-10-15
Chief Scientist: Takashi Kikuchi (JAMSTEC)
Project Name: [Arctic Ocean Climate System Reaserch]
Proposal: ▶ Multi-disciplinary observation cruise for the Arctic Ocean
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Information of the Ships

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Information of the Submersibles

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[SHINKAI 2000](#)
[SHINKAI 6500](#)
[DEEP TOW](#)
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[POWER GRAB SAMPLER \(CLOW\)](#)
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Go to a Dive Information

Dive ID: