

MIRAI MR01-K03 Conductivity-Temperature-Depth Profiler (CTD)

Last Modified: 2017-06-22

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Cruise ID: [MR01-K03](#)

Conductivity-Temperature-Depth Profiler (CTD): Processed (DMO)-QCed

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/MR01-K03_all.pdf

[For Using Data](#)

Principal Investigator

Data Management Office

Use Constraints

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

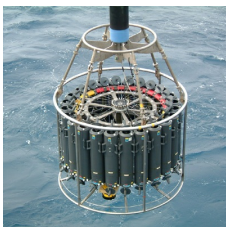
Data Citation

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

Instrument

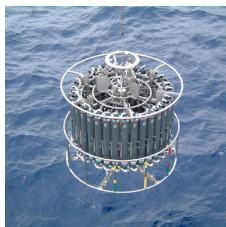
Instrument:

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



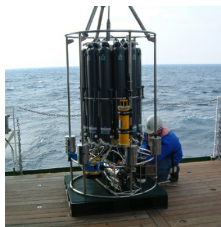
Instrument:

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



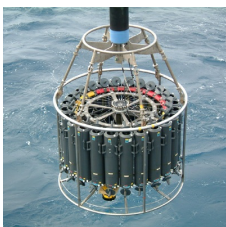
Instrument:

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



Instrument:

Conductivity temperature depth
measurements (CTD)



Overview

CTD(Conductivity-Temperature-Depth profiler) is used to observe the vertical profiles of temperature and conductivity.

Usually, this system is operated with multicylinder water sampler.

Observed signal is transmitted from sensor to the operation room on board using wire cable, and electric power is supplied from vessel to sensor.

Details of sensors attached to CTD system for MR01-K03 cruise are presented in "System".

The following software, developed and supplied by the Sea-Bird Electronics, Inc., was used in MR01-K03.

SEASAVE(ver 5.27b) for data acquisition

SEASOFT(ver 5.27b) for data processing

Data presented on this website is averaged over 1db.

System

• Pressure sensor

Model : SBE9plus, Sea-Bird Electronics,Inc.

Serial number : 51190

Measurement range : up to 10500m

Accuracy : 0.015% F.S.

Resolution : 0.001% F.S.

• Pressure sensor

Model : SBE9plus, Sea-Bird Electronics,Inc.

Serial number : 79492

Measurement range : up to 10500m

Accuracy : 0.015% F.S.

Resolution : 0.001% F.S.

• Temperature sensor

Model : SBE3, Sea-Bird Electronics,Inc.

Serial number : 032453

Measurement range : -5.0 to +35degC

Accuracy : 0.001degC

- Resolution : 0.0002degC
- Temperature sensor

Model : SBE3, Sea-Bird Electronics, Inc.
 Serial number : 031525
 Measurement range : -5.0 to +35degC
 Accuracy : 0.001degC
 Resolution : 0.0002degC
 - Salinity sensor

Model : SBE4, Sea-Bird Electronics, Inc.
 Serial number : 041088
 Measurement range : 0.0 to 7 S/m
 Accuracy : 0.0003 S/m
 Resolution : 0.00004 S/m
 - Salinity sensor

Model : SBE4, Sea-Bird Electronics, Inc.
 Serial number : 041202
 Measurement range : 0.0 to 7 S/m
 Accuracy : 0.0003 S/m
 Resolution : 0.00004 S/m
 - DO sensor

Model : SBE13, Sea-Bird Electronics, Inc.
 Serial number : 130575
 Measurement range : 0 to 15ml/l
 Accuracy : 0.1ml/l
 Resolution : 0.01ml/l
 - DO sensor

Model : SBE13, Sea-Bird Electronics, Inc.
 Serial number : 130339
 Measurement range : 0 to 15ml/l
 Accuracy : 0.1ml/l
 Resolution : 0.01ml/l

Sensors used in each cast is as follows.

Cast name	Serial number of sensor		Salinity	Dissolved Oxygen
	Pressure	Temperature		
TSTS01	51190	032453	041088	130575
TSTL01	79492	031525	041202	130339
TSTS02	51190	032453	041088	130575
001L01	79492	031525	041202	130339
001S01	51190	032453	041088	130575
001L02	79492	031525	041202	130339
001S02	51190	032453	041088	130575
001S03	51190	032453	041088	130575
002S01	51190	032453	041088	130575
002L01	79492	031525	041202	130339
002S02	51190	032453	041088	130575
003S01	51190	032453	041088	130575
003L01	79492	031525	041202	130339
003S02	51190	032453	041088	130575
004S01	51190	032453	041088	130575
004L01	79492	031525	041202	130339
005S01	51190	032453	041088	130575
005L01	79492	031525	041202	130339
005S02	51190	032453	041088	130575
005L02	79492	031525	041202	130339
005S03	51190	032453	041088	130575
007S01	51190	032453	041088	130575
007L01	79492	031525	041202	130339
007S02	51190	032453	041088	130575
008S01	51190	032453	041088	130575
008L01	79492	031525	041202	130339
008S02	51190	032453	041088	130575
011L01	79492	031525	041202	130339
011S01	51190	032453	041088	130575
011L02	79492	031525	041202	130339
011S02	51190	032453	041088	130575
012S01	51190	032453	041088	130575
012L01	79492	031525	041202	130339
013S01	51190	032453	041088	130575
013L01	79492	031525	041202	130339
013S02	51190	032453	041088	130575
010S01	51190	032453	041088	130575
010S02	51190	032453	041088	130575
010L01	79492	031525	041202	130339
014S01	51190	032453	041088	130575
014L01	79492	031525	041202	130339
014S02	51190	032453	041088	130575
01RL01	79492	031525	041202	130339
01RS01	51190	032453	041088	130575
01RL02	79492	031525	041202	130339
01RS02	51190	032453	041088	130575

015L01	79492	031525	041202	130339
Cast name	Serial number of sensor	Temperature	Salinity	Dissolved Oxygen
016L01	Pressure	Temperature	Salinity	Dissolved Oxygen
016S01	51190	032453	041088	130575
016L02	79492	031525	041202	130339
E01S01	51190	032453	041088	130339
E02S01	51190	032453	041088	130339
E03S01	51190	032453	041088	130339
E04S01	51190	032453	041088	130339
E05S01	51190	032453	041088	130339
E06S01	51190	032453	041088	130339
E07S01	51190	032453	041088	130339
E08S01	51190	032453	041088	130339
E09S01	51190	032453	041088	130339
E10S01	51190	032453	041088	130339
E11S01	51190	032453	041088	130339
E12S01	51190	032453	041088	130339
017L01	79492	031525	041202	130339
018L01	79492	031525	041202	130339
018S01	51190	032453	041088	130575
018L02	79492	031525	041202	130339
019L01	79492	031525	041202	130339
020L01	79492	031525	041202	130339
020S01	51190	032453	041088	130575
020L02	79492	031525	041202	130339
025L02	79492	031525	041202	130575
026L01	79492	031525	041202	130575
026S01	51190	032453	041088	-
026L02	79492	031525	041202	130575
026S02	51190	032453	041088	-
024L01	79492	031525	041202	130575
024S01	51190	032453	041088	-
024L02	79492	031525	041202	130575
023L01	79492	031525	041202	130575
022L01	79492	031525	041202	130575
022S01	51190	032453	041088	-
022L02	79492	031525	041202	130575
021L01	79492	031525	041202	130575
027L01	79492	031525	041202	130575
028L01	79492	031525	041202	130575
R01S02	51190	032453	041088	130575
R02S02	51190	032453	041088	130575
R03S01	51190	032453	041088	130575
R04S01	51190	032453	041088	130575
R05S01	51190	032453	041088	130575
R06S01	51190	032453	041088	130575
R07S01	51190	032453	041088	130575
R08S01	51190	032453	041088	130575
R09S01	51190	032453	041088	130575
R10S01	51190	032453	041088	130575
R11S01	51190	032453	041088	130575

Calibration Information

Calibration Information is as follows.

[Calibration Information](#)

Data processing

(1) Data processing sequence for SEASOFT is as follows;

command	function
datcnv	Convert raw data to engineering units, and store converted data in file.
section	Extract rows of data from file.
alignctd	Align data relative to pressure(typically used for conductivity, temperature, and oxygen).
wildedit	Mark a data value with badflag to eliminate wild points.
celltm	Perform conductivity thermal mass correction.
filter	Low-pass filter columns of data.
loopedit	Mark a scan with badflag if scan fails pressure reversal or minimum velocity tests.
derive	Calculate oxygen. (with oxygen sensor)
binavg	Average data, basing bins on pressure, depth, scan number, or time range.
derive	Calculate salinity, density, etc..
split	Split data in file into upcast and downcast files.

(2) Quality control

QCed data were added flag according to the NODC (National Oceanographic Data Center) quality control procedure.

- 1) The gradient check of adjacent depth data
- 2) The density inversion check
- 3) The broad range check set up at given ocean space and depth

Please see the site of NODC of the following link for quality control procedure in detail.

[QUALITY CONTROL AND PROCESSING OF HISTORICAL OCEANOGRAPHIC TEMPERATURE, SALINITY, AND OXYGEN DATA](#)

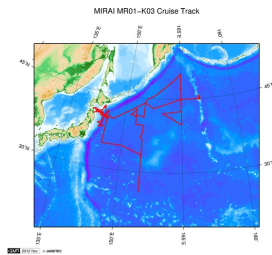
In addition, an abnormal value is identified by a visual check, and the data after visual QC is released.

Note

(1) Water temperature data of this cruise was corrected since it had pressure dependency. Please refer to ["data correction"](#) in detail.

(2) In this cruise, there is extra data (distance to bottom) in additional to temperature, salinity, dissolved oxygen that has been opened to the public. Please contact us from ["Contact Us"](#) above if necessary.

Related Information



[Enlarge Image](#)

MR01-K03

Ship Name: MIRAI
Period: 2001-06-04 - 2001-07-18
Chief Scientist: Shuichi Watanabe (JAMSTEC)
Project Name: [Station K2, Station KNOT]

Update History

2017-06-22	An observation data was registerd.
2014-08-20	An observation data was registerd.
2014-07-16	An observation data was registerd.
2014-01-11	An observation data was registerd.
2012-12-25	An observation data was registerd.

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Go to a Cruise Information

Cruise ID:

Go to a Dive Information

Dive ID:

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JAPAN AGENCY FOR MARINE-EARTH SCIENCE AND TECHNOLOGY

MIRAI MR01-K03 Conductivity-Temperature-Depth Profiler (CTD)

Last Modified: 2017-06-22

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

 Cruise ID: [MR01-K03](#)

Conductivity-Temperature-Depth Profiler (CTD): Processed (DMO)-QCed

 Data Policy: [JAMSTEC](#)

CTD DMO

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'.

Definition of Quality Control Flags

1. Depth Flags

- 0 - accepted value
- 1 - error in recorded depth (same or less than previous depth)
- 2 - density inversion

2. Observed Level Flags

- N - missing value
- 0 - accepted value
- 1 - range outlier (outside of broad range check)
- 2 - failed inversion check
- 3 - failed gradient check
- 4 - zero anomaly
- 5 - failed combined gradient and inversion checks
- 6 - failed range and inversion checks
- 7 - failed range and gradient checks
- 8 - failed range and zero anomaly checks
- 9 - failed range and combined gradient and inversion checks
- A - failed visual check

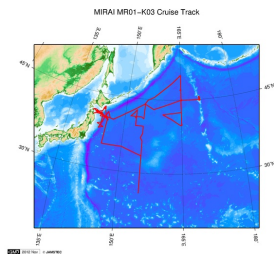
QCed data were added flag according to the NODC (National Oceanographic Data Center) quality control procedure, additionally visually checked. Please see the site of NODC of the following link for quality control procedure.

[QUALITY CONTROL AND PROCESSING OF HISTORICAL OCEANOGRAPHIC TEMPERATURE, SALINITY, AND OXYGEN DATA](#)

Sample Program

[ex_read2.f](#)

Related Information



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MR01-K03

Ship Name: MIRAI

Period: 2001-06-04 - 2001-07-18

Chief Scientist: Shuichi Watanabe (JAMSTEC)

Project Name: [Station K2, Station KNOT]

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

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Cruise ID:

Go to a Dive Information

Dive ID:

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MIRAI MR01-K03 Conductivity-Temperature-Depth Profiler (CTD)

Last Modified: 2017-06-22

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Cruise ID: **MR01-K03**

Conductivity-Temperature-Depth Profiler (CTD): Processed (DMO)-QCed

Data Policy: **JAMSTEC**

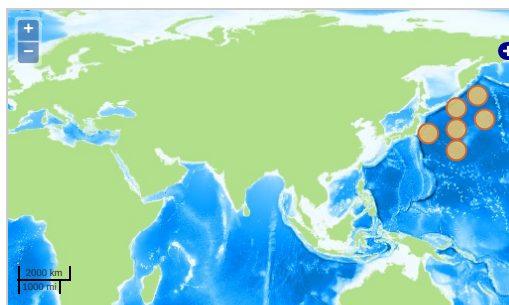
Observation Items: Pressure, Temperature, Salinity, Dissolved oxygen

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.

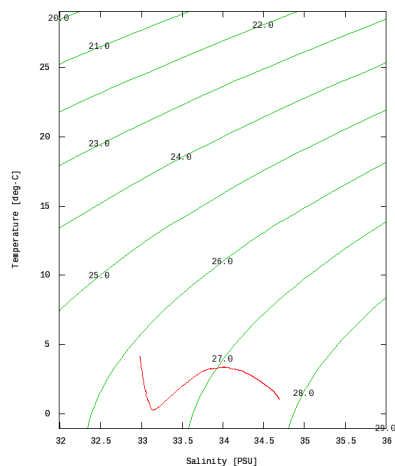


Figures

001L01



MR01-K03: 001L01
Conductivity-Temperature-Depth Profiler (CTD): Salinity










































































Only values evaluated as "good : all flags are 0" are plotted in profiles.
Please see Format Page for the definition of quality flags.

Data List

[Add to Basket](#)

File names

<input type="checkbox"/>	001L01.dat
<input type="checkbox"/>	001L02.dat
<input type="checkbox"/>	001S01.dat
<input type="checkbox"/>	001S02.dat
<input type="checkbox"/>	001S03.dat
<input type="checkbox"/>	002L01.dat
<input type="checkbox"/>	002S01.dat
<input type="checkbox"/>	002S02.dat
<input type="checkbox"/>	003L01.dat
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<input type="checkbox"/>	004L01.dat
<input type="checkbox"/>	004S01.dat

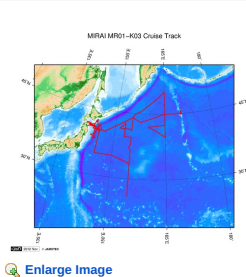
 File names
 005L02.dat
 005S01.dat
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 005S03.dat
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 007S02.dat
 008L01.dat
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 E10S01.dat
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 E12S01.dat
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 R02S02.dat
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 R05S01.dat
 R06S01.dat
 R07S01.dat
 R08S01.dat
 R09S01.dat
 R10S01.dat
 R11S01.dat
 TSTL01.dat
TSTS01.dat

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

Observation	Time and Date	Lat. [°]	Lon. [°]
001L01	2001-06-07 12:02	43.9993	154.9996
001L02	2001-06-07 18:43	43.9988	154.9938
001S01	2001-06-07 15:25	44.0023	155.0001
001S02	2001-06-07 20:10	44.0005	155.0013
001S03	2001-06-08 15:07	43.9986	155.0013
002L01	2001-06-09 08:16	45.4938	157.4963
002S01	2001-06-09 07:38	45.4963	157.4988
002S02	2001-06-09 12:10	45.5018	157.4996
003L01	2001-06-10 00:20	46.9900	159.9970
003S01	2001-06-09 23:42	46.9946	159.9975
003S02	2001-06-10 03:50	47.0015	159.9975
004L01	2001-06-10 14:01	48.4171	162.5028
004S01	2001-06-10 13:21	48.4183	162.5033
005L01	2001-06-11 10:22	50.0071	165.0073
005L02	2001-06-11 14:51	49.9916	165.0073
005S01	2001-06-11 07:22	49.9960	165.0013
005S02	2001-06-11 14:15	49.9898	165.0045
005S03	2001-06-11 16:11	49.9981	165.0025
007L01	2001-06-12 23:53	47.0011	165.0149
007S01	2001-06-12 23:11	46.9983	165.0083
007S02	2001-06-13 04:23	46.9970	165.0231
008L01	2001-06-13 23:52	45.0010	165.0016
008S01	2001-06-13 23:12	45.0000	165.0018
008S02	2001-06-14 04:28	44.9968	165.0016
010L01	2001-06-21 04:03	42.4966	165.0016
010S01	2001-06-20 23:13	42.4985	164.9956
010S02	2001-06-21 00:57	42.4820	164.9745
011L01	2001-06-18 00:38	39.9986	165.0003
011L02	2001-06-18 03:57	40.0003	164.9991
011S01	2001-06-18 02:42	39.9988	165.0053
011S02	2001-06-18 13:57	39.9995	165.0000
012L01	2001-06-19 13:50	41.0031	162.5093
012S01	2001-06-19 13:06	41.0010	162.5080
013L01	2001-06-20 02:32	42.0040	160.0010
013S01	2001-06-20 01:51	41.9988	160.0041
013S02	2001-06-20 06:31	42.0000	160.0051
014L01	2001-06-23 04:35	43.0000	157.4993
014S01	2001-06-23 04:00	42.9995	157.5000
014S02	2001-06-23 08:32	42.9983	157.4970
015L01	2001-06-24 22:58	42.5000	154.9996
016L01	2001-06-25 08:58	41.0045	155.0040
016L02	2001-06-25 13:15	41.0028	155.0018
016S01	2001-06-25 12:16	40.9990	154.9943
017L01	2001-06-29 08:51	39.5011	154.9993
018L01	2001-06-29 21:01	37.9996	155.0008
018L02	2001-06-30 01:53	38.0005	155.0013
018S01	2001-06-30 00:49	37.9991	154.9981
019L01	2001-06-30 09:49	36.4981	154.9953
01RL01	2001-06-24 03:55	44.0015	155.0023
01RL02	2001-06-24 08:27	44.0000	155.0021
01RS01	2001-06-24 07:42	44.0006	155.0006
01RS02	2001-06-24 13:55	44.0001	155.0003
020L01	2001-06-30 20:56	35.0000	155.0001
020L02	2001-07-01 01:34	35.0001	154.9988
020S01	2001-07-01 00:27	35.0000	154.9996
021L01	2001-07-05 06:31	33.5020	155.0033
022L01	2001-07-04 19:55	32.0001	155.0023
022L02	2001-07-04 23:32	31.9995	155.0011
022S01	2001-07-04 22:40	32.0020	154.9998
023L01	2001-07-04 07:17	30.4998	154.9971
024L01	2001-07-03 19:54	28.9988	154.9981
024L02	2001-07-04 00:28	28.9995	154.9990
024S01	2001-07-03 23:27	29.0003	155.0004
025L02	2001-07-02 08:16	27.4995	155.0015
026L01	2001-07-02 21:56	26.0000	154.9991
026L02	2001-07-03 02:31	26.0000	154.9995
026S01	2001-07-03 01:22	25.9998	154.9998
026S02	2001-07-03 03:46	25.9986	154.9998
027L01	2001-07-06 03:58	34.9995	149.9995
028L01	2001-07-07 00:41	35.0003	144.9988
E01S01	2001-06-25 22:59	41.3351	154.0016
E02S01	2001-06-26 03:58	41.3335	152.7481
E03S01	2001-06-26 08:57	41.3320	151.9160
E04S01	2001-06-26 22:57	42.6661	152.9993
E05S01	2001-06-27 04:00	42.3338	153.0029
E06S01	2001-06-27 06:55	42.0015	152.9980
E07S01	2001-06-27 11:40	41.6661	152.9986

Observation	Time and Date	Lat. (°N)	Lon. (°E)
E08S01	2001-06-27 22:58	41.2803	152.8835
E09S01	2001-06-28 03:25	41.0025	152.9960
E10S01	2001-06-28 06:08	40.6680	152.9998
E11S01	2001-06-28 08:49	40.3348	152.9961
E12S01	2001-06-28 22:57	39.4988	152.9985
R01S02	2001-07-12 23:34	39.0011	143.9980
R02S02	2001-07-13 03:42	38.6351	143.8111
R03S01	2001-07-13 08:39	38.2676	143.6161
R04S01	2001-07-14 03:00	39.4838	144.2846
R05S01	2001-07-14 08:31	39.9993	144.5340
R06S01	2001-07-14 11:27	40.3671	144.7328
R07S01	2001-07-14 21:55	40.7335	144.9180
R08S01	2001-07-15 02:49	41.0840	145.1178
R09S01	2001-07-15 06:04	41.5328	145.3668
R10S01	2001-07-15 21:58	40.3665	145.6663
R11S01	2001-07-16 02:55	40.3686	144.4675
TSTL01	2001-06-06 06:09	40.1648	146.9685
TSTS01	2001-06-06 05:13	40.1638	146.9603
TSTS02	2001-06-06 07:23	40.1614	146.9751

Related Information



MR01-K03

Ship Name: MIRAI
Period: 2001-06-04 - 2001-07-18
Chief Scientist: Shuichi Watanabe (JAMSTEC)
Project Name: [Station K2, Station KNOT]

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Update History

2017-06-22	An observation data was registered.
2014-08-20	An observation data was registered.
2014-07-16	An observation data was registered.
2014-01-11	An observation data was registered.
2012-12-25	An observation data was registered.

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KAIKO
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SHINKAI 6500
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HYPER-DOLPHIN
URASHIMA
YOKOSUKA DEEP TOW
6K Camera DEEP TOW
6K Sonar DEEP TOW
KM-ROV
POWER GRAB SAMPLER (SHELL)
POWER GRAB SAMPLER (CLOW)
BMS

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