

MIRAI MR13-06 Leg1 TurboMAP Data

Last Modified: 2019-09-05

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

Cruise ID: [MR13-06 Leg1](#)

TurboMAP Data: Processed (PI)

Data Policy: [JAMSTEC](#)

Observation Items:

Science Keywords:

Data Information

* Summary of the data:

Vertical profiles of microstructure in seawater were collected by using free-falling instrument of TurboMAP-L.

The 512-Hz raw data of current shear and temperature gradient are processed into a 2-sec segmented turbulent variables (approx. 1 m pitch) after demean and despiking procedures (ϵ , χ , etc).

(ascii-formatted processed data; 79 files)

Contents & Variables:

temperature (SN=25),

conductivity (SN=25),

depth (SN=25),

energy dissipation rate (shear1=M1232; shear2=M503),

temperature gradient variance dissipation rate (FP07; SN=144),

turbulent diffusivity (shear1=M1232; shear2=M503),

vertical heat flux (FP07; SN=144).

Cruise Report

http://www.godac.jamstec.go.jp/catalog/data/doc_catalog/media/MR13-06_leg1-2_all.pdf

For Using Data

Principal Investigator

Yusuke Kawaguchi (AORI, U. Tokyo)

Use Constraints

None

Data Citation

Citation:

Y. Kawaguchi, S. Nishino, J. Inoue, Fixed-point observation of mixed layer evolution in the seasonal ice-free Chukchi Sea: Turbulent mixing due to gale winds and internal gravity waves, J. Phys. Oceanogr., 45, 836–853, 2015.

Principal Investigator:

Yusuke Kawaguchi

Department of Physical Oceanography,

Atmosphere and Ocean Research Institute,

The University of Tokyo

Tel: 047-136-6047, Fax: 047-136-6056

E-mail: [ykawaguchi @ ori.u-tokyo.ac.jp](mailto:ykawaguchi@ori.u-tokyo.ac.jp)

Instrument

Instrument:

TurboMAP-L (JFE Advantech, Co.

Ltd.)

Instrument Information:

Direct measurement of microstructure

in sea water.



Data Format

TM*_odv2.txt, where * means cast number of TM experiment.

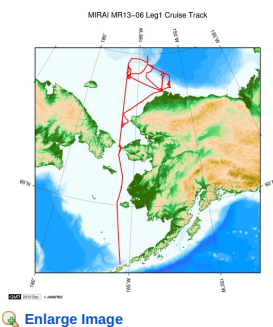
For units and variable specification, please see the info in header part.

The following files were not obtained.

TM65_odv2.txt

TM66_odv2.txt

Related Information



[Enlarge Image](#)

MR13-06 Leg1

Ship Name: MIRAI

Period: 2013-08-28 - 2013-10-07

Chief Scientist: Shigeto Nishino (JAMSTEC)

Project Name: [Arctic Ocean Climate System Reaserch]

Proposal ▶ Study on environmental changes in the sea-ice reduction regions of the Arctic Ocean

Title:

Update History

2019-09-05	An observation data was registerd.
2018-01-23	An observation data was registerd.
2017-12-22	An observation data was registerd.

JAMSTEC

[Site Policy](#)

[Privacy Policy](#)

[Application for Data and Samples](#)

[Data Policy](#)

[What's New](#)

[Update History](#)

[Feeds](#)

Lists

[Publication List](#)

[Amount of Public Info.](#)

Data

[Map Search](#)

[Data Tree](#)

[Detailed Search](#)

Information of the Ships

NATSUSHIMA

KAIYO

YOKOSUKA

MIRAI

KAIREI

CHIKYU

KAIMEI

SHINSEI MARU

HAKUHO MARU

Information of the Submersibles

KAIKO

SHINKAI 2000

SHINKAI 6500

DEEP TOW

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

Go to a Cruise Information

Cruise ID:

Go to a Dive Information

Dive ID:

Copyright 2011 Japan Agency for Marine-Earth Science and Technology



JAMSTEC

国立研究開発法人
海洋研究開発機構
JAPAN AGENCY FOR MARINE-EARTH SCIENCE AND TECHNOLOGY

MIRAI MR13-06 Leg1 TurboMAP Data

Last Modified: 2019-09-05

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

Cruise ID: **MR13-06 Leg1**

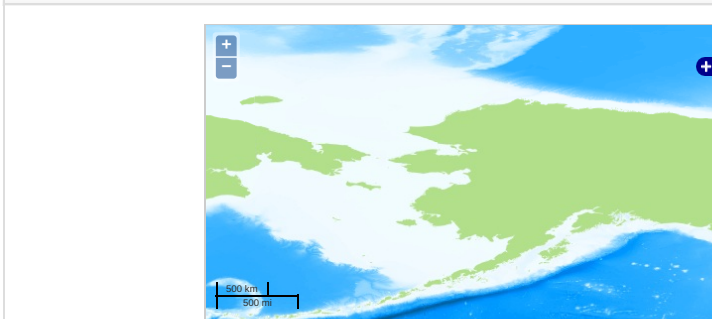
TurboMAP Data: Processed (PI)

Data Policy: [JAMSTEC](#)

Observation Items:

Science Keywords:

Observation Map



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

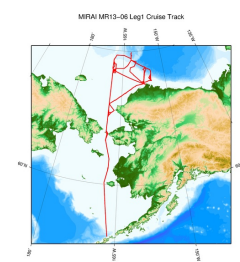
Data List

[Add to Basket](#)

File names

☐ TurboMAP.zip

Related Information



[Enlarge Image](#)

MR13-06 Leg1

Ship Name: MIRAI

Period: 2013-08-28 - 2013-10-07

Chief Scientist: Shigeto Nishino (JAMSTEC)

Project Name: [Arctic Ocean Climate System Research]

Proposal ▶ Study on environmental changes in the sea-ice reduction regions of the Arctic Ocean

Title:

Update History

2019-09-05	An observation data was registered.
2018-01-23	An observation data was registered.
2017-12-22	An observation data was registered.

JAMSTEC

[Site Policy](#)
[Privacy Policy](#)
[Application for Data and Samples](#)
[Data Policy](#)

[What's New](#)
[Update History](#)
[Feeds](#)

Lists

[Publication List](#)
[Amount of Public Info.](#)

[Data](#)
[Map Search](#)
[Data Tree](#)
[Detailed Search](#)

Information of the Ships

NATSUSHIMA
KAIYO
YOKOSUKA
MIRAI
KAIREI
CHIKYU
KAIMEI
SHINSEI MARU
HAKUHO MARU

Information of the Submersibles

KAIKO
SHINKAI 2000
SHINKAI 6500
DEEP TOW
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

Go to a Cruise Information

Cruise ID:

Go to a Dive Information

Dive ID:

