

KY14-08 Cruise Summary

1. Cruise Information

1.1. Cruise ID

KY14-08

1.2. Name of vessel

R/V Kaiyo

1.3. Title of the cruise

Recovery of the prototype buoy for tsunami and crustal movement.

1.4. Chief scientist [Affiliation]

Tatsuya Fukuda [JAMSTEC Marine Technology and Engineering Center]

1.5. Representative of the Science Party [Affiliation]

Tatsuya Fukuda [JAMSTEC Marine Technology and Engineering Center]

1.6. Cruise period

Jun. 14, 2014 – Jun. 17, 2014

1.7. Ports of call

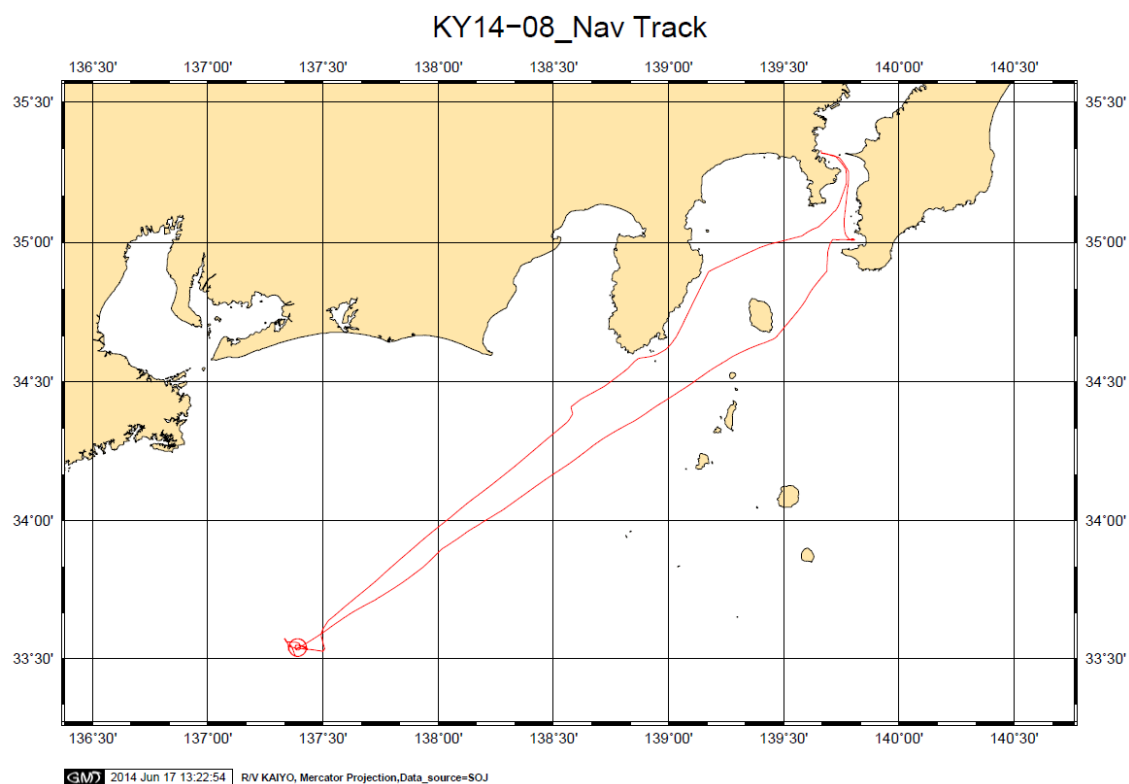
Yokosuka, Japan (Departure: Jun. 14, 2014)

Yokosuka, Japan (Arrival: Jun. 17, 2014)

1.8. Research area

Kumano basin

1.9. Cruise Track



2. Overview of the Observation

2.1. Purpose

The purpose of this cruise is to recover the prototype buoy for tsunami and crustal movement which was deployed at YK14-01 cruise.

2.2. Observation summary

2.2.1. Recovery of the prototype buoy for tsunami and crustal movement

Surface buoy recovery: 1 mooring

Ocean Bottom Unit recovery: 1 mooring

Locations of recovery are as follow:

(1) Locations of Recovery

① The prototype buoy for tsunami and crustal movement

Deployed date (UTC)	12 Jan. 2014 02:49
Recovered date (UTC)	15 Jun. 2014 04:22
Exact location	33 - 32.33N, 137 - 23.24E
Depth	2,972 m

② Ocean Bottom Unit

Deployed date (UTC)	12 Jan. 2014 07:25
Recovered date (UTC)	16 Jun. 2014 02:20
Exact location	33 - 32.43N, 137 - 23.41E
Depth	2,973 m

2.2.2. Acoustic waveform observation

Before and after recovery of a prototype buoy, we observed the acoustic waveform from OBU along 3 observation point and lines using vessel acoustic receiver which installed on the bottom of vessel. We observed near the buoy before recovery. And after recovery, we did along a line that the center of line are OBU position. And then, we did using recovered wire rope and recovered wire-end station.

Acoustic waveform observation: 3 times

- point #1 near buoy
- Line #1 Circle Radius 3.55km Center: 33-32.43N, 137-23.41E
- Area #1 Circle Radius 3.0 ~ 3.9km Center: 33-32.43N, 137-23.41E