

KY13-06 Cruise Summary

1. Cruise Information

1.1. Cruise ID

KY13-06

1.2. Name of vessel

R/V Kaiyo

1.3. Title of the cruise

Recovery of prototype buoy for operation of buoy observation system for tsunami and crustal movement and IODP mooring.

1.4. Chief scientist [Affiliation]

Tatsuya Fukuda [JAMSTEC Marine Technology and Engineering Center]

1.5. Proposal 1

1.5.1. Representative of the Science Party [Affiliation]

Yasuhisa Ishihara [JAMSTEC Marine Technology and Engineering Center]

1.6. Proposal 2

1.6.1. Representative of the Science Party [Affiliation]

Moe Kyaw [JAMSTEC Center for Deep Earth Exploration]

1.7. Cruise period

Apr. 02, 2013 – Apr. 06, 2013

1.8. Ports of call

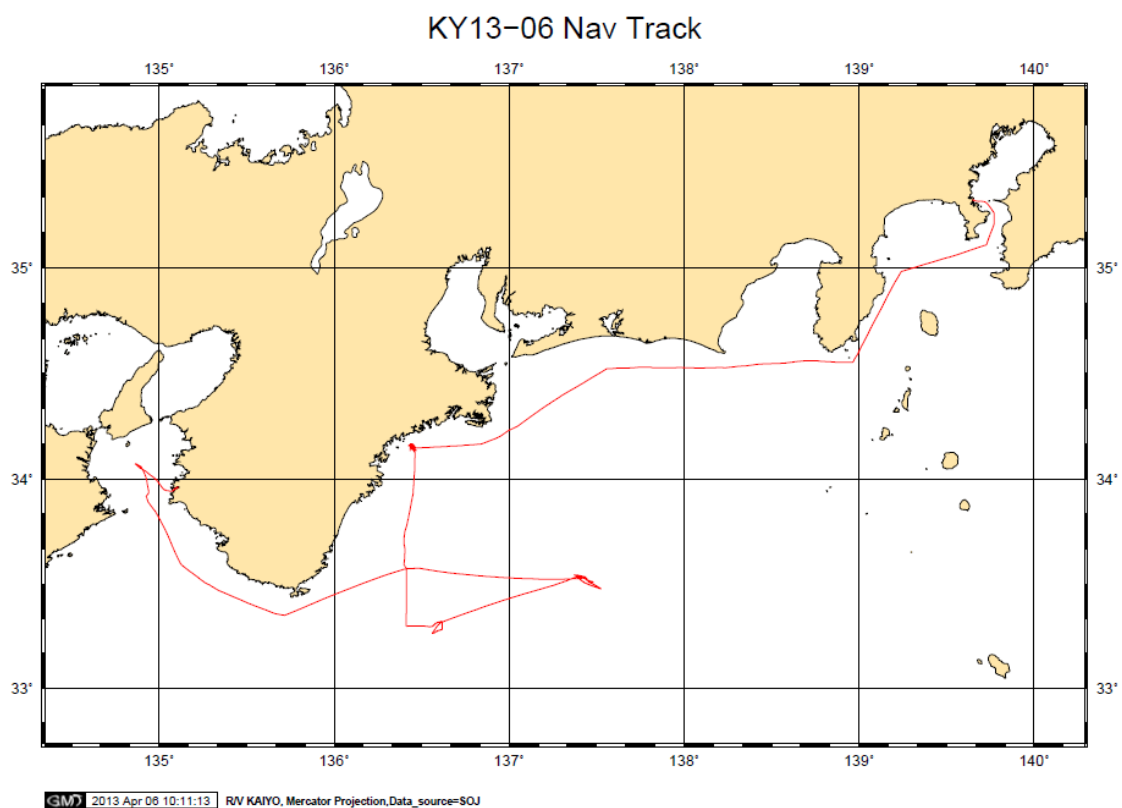
Yokosuka, Japan (Departure: Apr. 02, 2013)

Yura, Japan (Arrival: Apr. 06, 2013)

1.9. Research area

Kumano basin

1.10. Cruise Track



2. Overview of the Observation

2.1. Purpose

2.1.1. Proposal 1

The purpose of this cruise is to recover the prototype buoy for tsunami and crustal movement which was deployed at KY12-15 cruise.

2.1.2. Proposal 2

To retrieve two sets of midwater mooring systems that were deployed in the KY12-06 cruise for monitoring sea current (Kuroshio Current) variation and for conducting a riser analysis for the NanTroSEIZE deep riser drilling at Site C0002 by using the obtained data.

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)	10 Dec. 2012 23:42
Recovered date (UTC)	5 Apr. 2013 01:41
Exact location	33 - 32.48N, 137 - 23.46E
Depth	2,971 m

② Ocean Bottom Unit

Deployed date (UTC)	11 Dec. 2012 02:33
Recovered date (UTC)	5 Apr. 2013 03:54
Exact location	33 - 32.41N, 137 - 23.46E
Depth	2,971 m

2.2.2. Recovery of the IODP mooring

Subsurface ADCP mooring recovery: 2 moorings

Locations of recovery are as follow:

(1) Locations of Recovery

① CM05

Deployed date (UTC)	2 Apr. 2012 03:25
Recovered date (UTC)	4 Apr. 2013 01:35
Exact location	33 - 17.90N, 136 - 33.58E

	Depth	1,861 m
②	CM06	
	Deployed date (UTC)	2 Apr. 2012 06:20
	Recovered date (UTC)	4 Apr. 2013 03:57
	Exact location	33 - 16.00N, 136 - 34.33E
	Depth	1,744 m