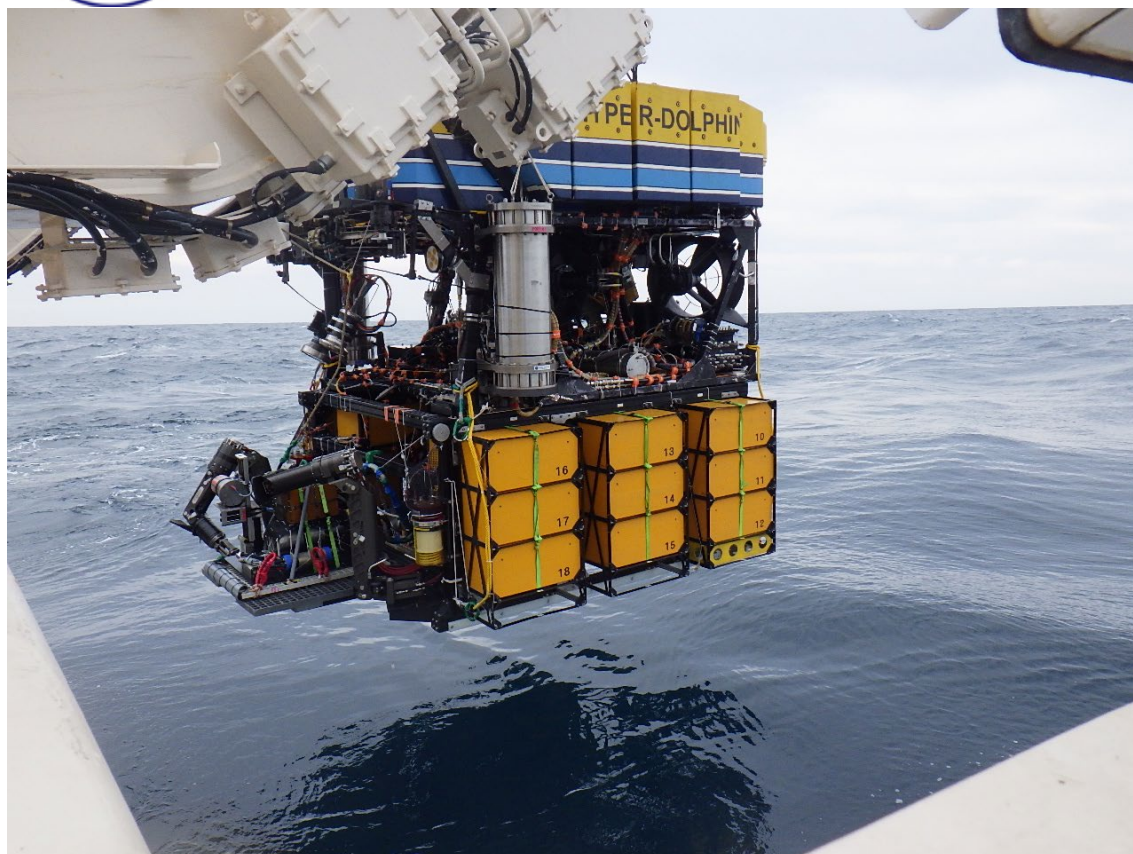




R/V Shinsei-maru KS-25-J05 Cruise Report



Real-time ocean bottom crustal movement observation

Kumanonada Sea, Off Kiisuido Strait

May. 19th, 2025 – Jun. 4th, 2025

Ocean Floor Observatory Technology Development Group
R&D Center for Earthquake and Tsunami Forecasting
Research Institute for Marine Geodynamics
Japan Agency for Marine-Earth Science and Technology

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1. Cruise Information

Cruise ID:	KS-25-J05		
Name of vessel:	Shinsei-maru		
Title of cruise:	Real time ocean bottom crustal movement observation		
Chief Scientist:	Affiliation	Duration	
Shuhei Nishida	JAMSTEC	May 19 th – Jun. 4 th	
Boarding Scientist:	Affiliation	Duration	
Yuya MACHIDA	JAMSTEC	May 19 th – Jun. 4 th	
Fumito SAKURAGI	NME	May 19 th – Jun. 4 th	
Toshimasa NASU	NME	May 19 th – May 28 th	
Masayuki OKAZAKI	NME	May 19 th – May 28 th	
Masayuki TOIZUMI	NME	May. 28 th – Jun. 4 th	
Sho HARAYAMA	NME	May. 28 th – Jun. 4 th	
Cruise period:	Feb. 21 st – Mar. 9 th		
Ports of departure/call/arrival:	JAMSTEC Yokosuka HQ / Kobe / Kobe		
Research area:	Kumanonada Sea, Off Kiisuido Strait		

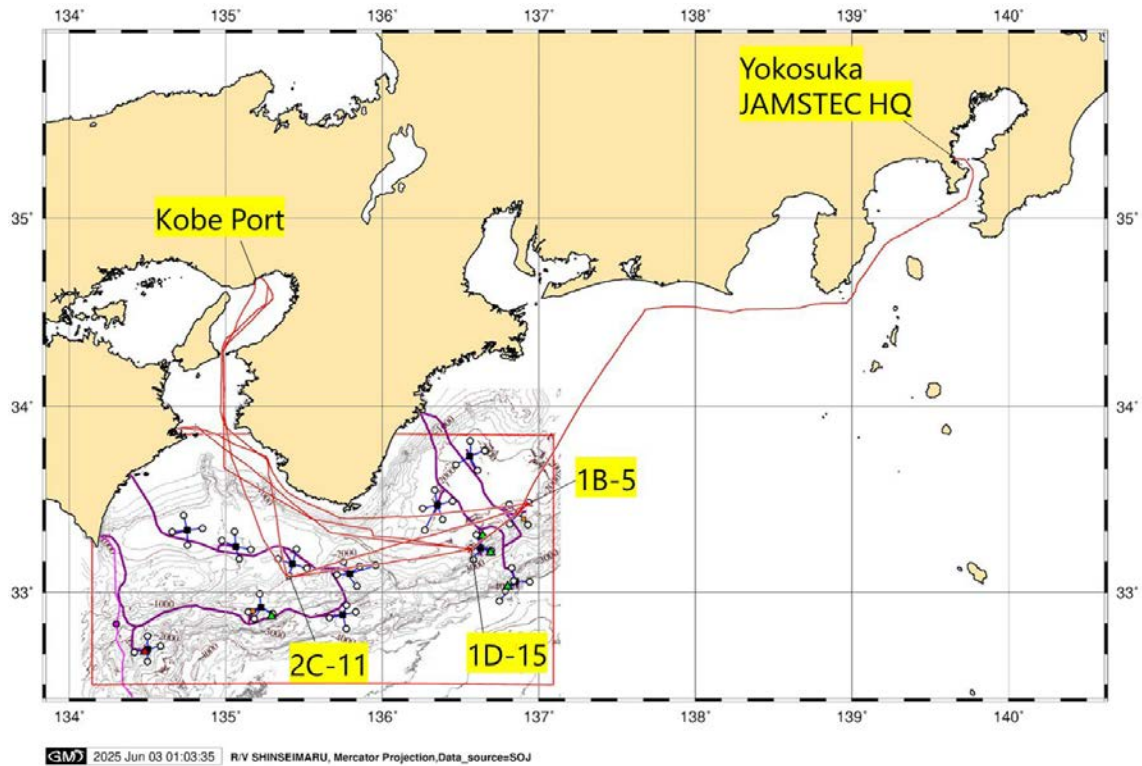
2. Research Proposal and Science Party

Science Party List:		
	Name	Affiliations
	Eiichiro Araki	JAMSTEC
	Takashi Yokobiki	JAMSTEC
	Hiroiyuki Matsumoto	JAMSTEC
	Shuhei Nishida	JAMSTEC
	Yuya Machida	JAMSTEC
	Shuhei Tsuji	JAMSTEC
	Akiko Tou	JAMSTEC
	Takeshi Katayama	JAMSTEC
	Masayuki Suzuki	JAMSTEC
	Takane Hori	JAMSTEC
	Shojiro Ishibashi	JAMSTEC
	Toshiya Fujiwara	JAMSTEC
	Takashi Tonegawa	JAMSTEC
	Aki Ito	JAMSTEC
	Koichiro Obana	JAMSTEC
	Shuichi Kodaira	JAMSTEC

3. Activity and Results

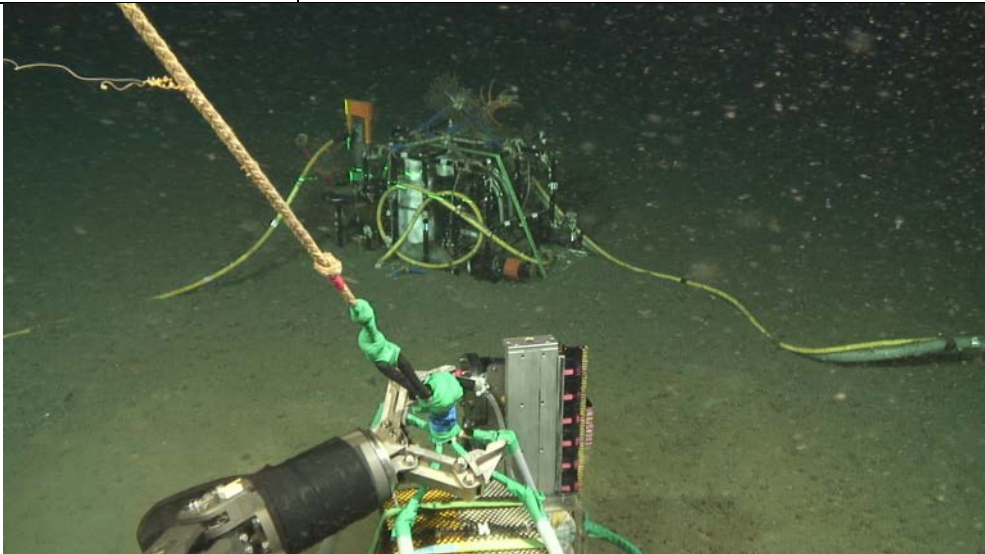
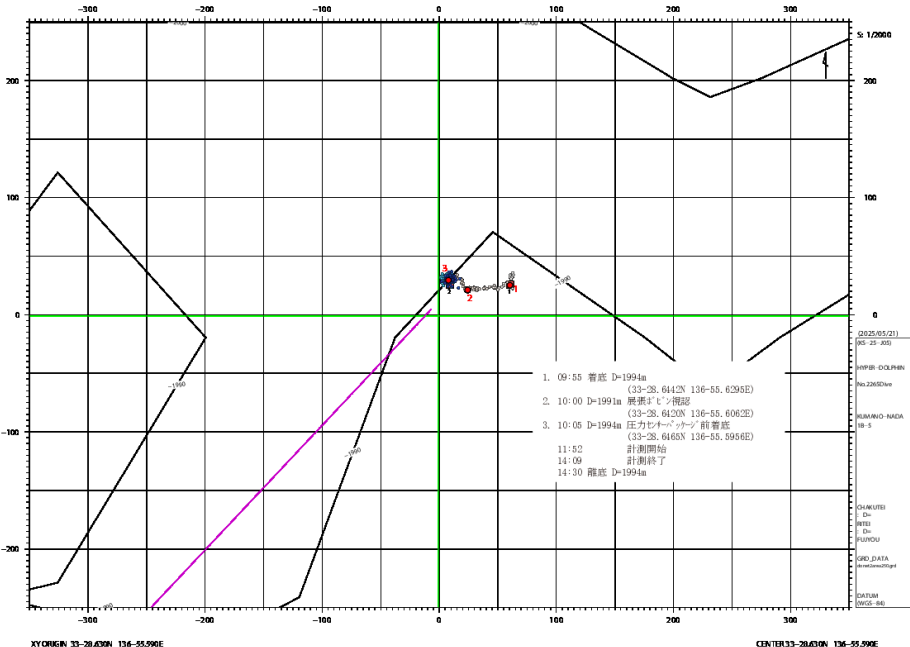
To calibrate the DONET bottom pressure gauges, the ROV was dived to the site where the gauges were installed and measured the bottom pressure and the height difference between the gauges to be calibrated and the mobile pressure calibrator.

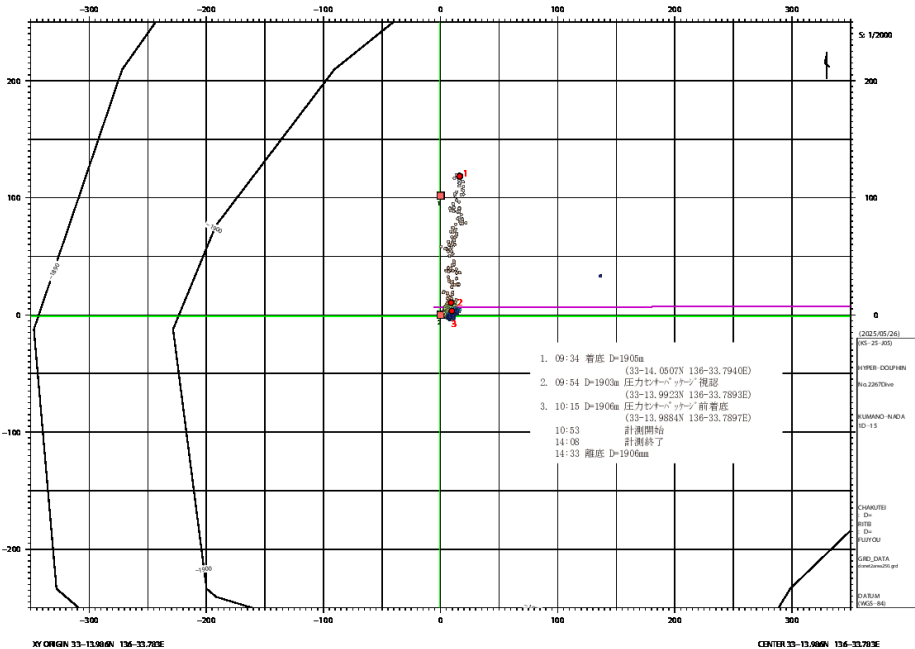
In this cruise, in-situ calibrations were conducted at three DONET observatories: twice at 1B-5 and 1D-15, and once at 2C-11.

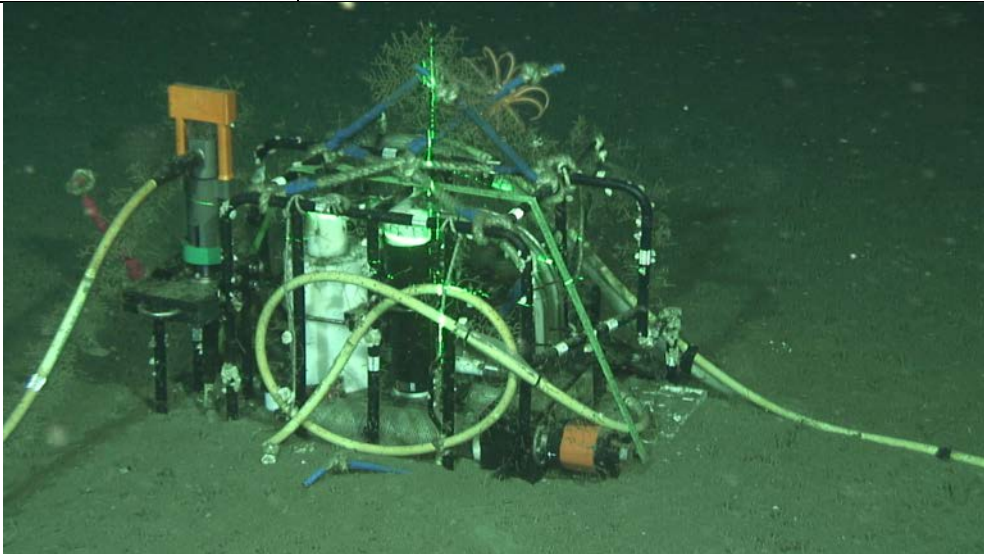
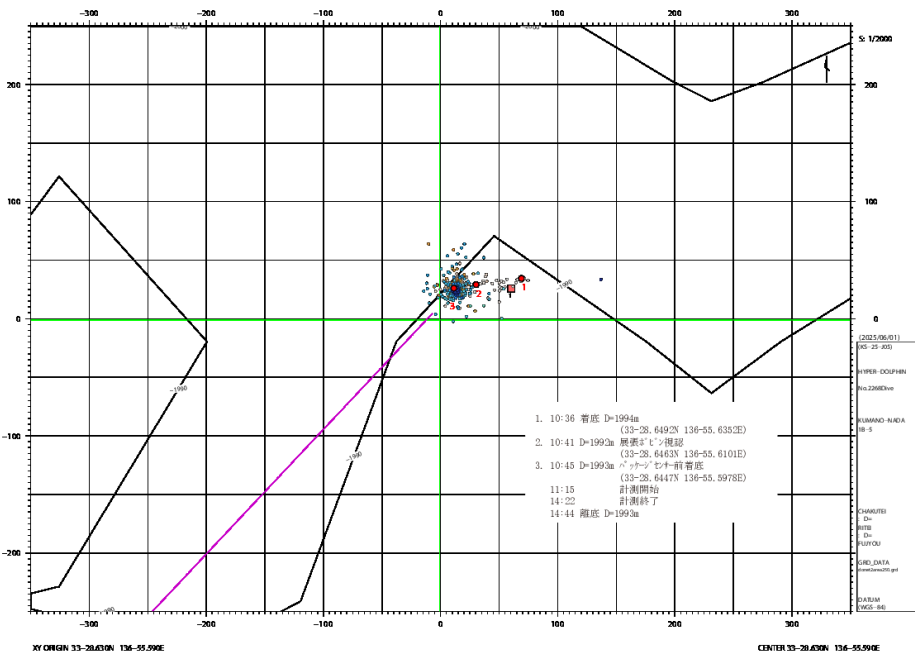


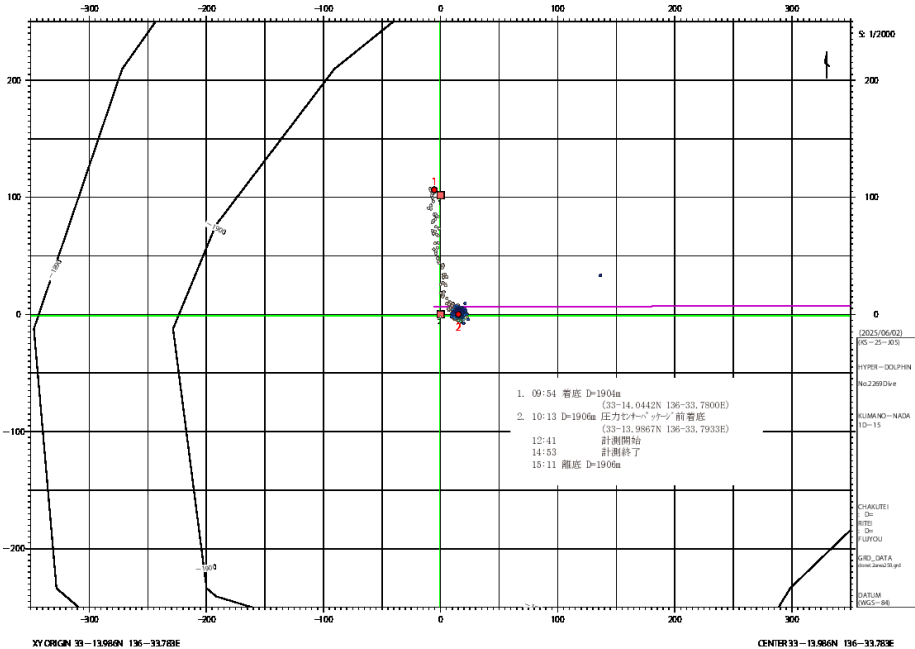
Trajectory during KS-25-J05

4. Dive Log

No.	Dive Num. Date	Site	Arrive Time	North Latitude	East Longitude	Depth [m]
			Leave Time			
1	HPD2265 2025/05/21	1B-5	09:55	33-28.6442N	136-55.6295E	1994
			14:30	33-28.6465N	136-55.5956E	1994
	Work Summary		A calibration of the bottom pressure gauge at DONET observatory 1B-5 was conducted using the mobile pressure calibrator.			
 						

No.	Dive Num. Date	Site	Arrive Time	North Latitude	East Longitude	Depth [m]
			Leave Time			
3	HPD2267 2025/05/26	1D-15	09:34	33-14.0507N	136-33.7940E	1905
			14:33	33-13.9884N	136-33.7897E	1906
	Work Summary		A calibration of the bottom pressure gauge at DONET observatory 1D-15 was conducted using the mobile pressure calibrator.			
						
						

No.	Dive Num. Date	Site	Arrive Time	North Latitude	East Longitude	Depth [m]
			Leave Time			
4	HPD2268 2025/06/01	1B-5	10:36	33-28.6492N	136-55.6352E	1994
			14:44	33-28.6447N	136-55.5978E	1993
	Work Summary		A calibration of the bottom pressure gauge at DONET observatory 1B-5 was conducted using the mobile pressure calibrator.			
 						

No.	Dive Num. Date	Site	Arrive Time	North Latitude	East Longitude	Depth [m]
			Leave Time			
5	HPD2269 2025/06/02	1D-15	09:54	33-14.0442N	136-33.7800E	1904
			15:11	33-13.9867N	136-33.7933E	1906
	Work Summary		A calibration of the bottom pressure gauge at DONET observatory 1D-15 was conducted using the mobile pressure calibrator.			
 						

5. Notice on Using

This cruise report is a preliminary documentation as of the end of cruise.

This report is not necessarily corrected even if there is any inaccurate description (i.e. taxonomic classifications). This report is subject to be revised without notice. Some data on this report may be raw or unprocessed. If you are going to use or refer the data on this report, it is recommended to ask the Chief Scientist for latest status.

Users of information on this report are requested to submit Publication Report to JAMSTEC.

<https://www.godac.jamstec.go.jp/darwin/en/note.html#report>

E-mail: submit-rv-cruise@jamstec.go.jp