



**Daily Drilling and Scientific Report for IODP Expedition 386
Japan Trench Paleoseismology, 2021**



15th May 00:00 – 24:00 JST Japan Standard Time (UTC+9)

1. Location

Position 36° 6.007' N, 142° 45.374' E
IODP-MSP borehole: M0082
Prospectus borehole: JTPS-02A
Water Depth: 8008 m

3. Operation

The 40 m GPC operation began at 0800 hrs. After setting the inclinometer and transponder on the winch cable at 20 m and 50 m above the GPC weighthead, the GPC assembly was deployed into the water at 0850 hrs and run down with winch speed at 1.1 m/s. Running the GPC assembly was suspended at 8150 m depth in cable length at 1135 hrs for stabilization, and resumed after holding for 3 minutes, with winch speed at 0.3 m/s. The GPC assembly spudded-in Holes M0082 C and D at 8100 m in cable length at 1146 hrs, and was run back to surface with winch speed at 1.1 m, and recovered to deck at 1445 hrs. The Trigger corer was dismantled and sampled after GPC recovery, while the deck crew and GPC operation team started withdrawing and cutting core into 5 m sections. Cutting the 5 m segment into 1 m sections was started at 1500 hrs while sampling from each section bottom end and completed by 1830 hrs. Making up the 20 m GPC for the next run was completed by 2015 hrs. Survey of one line using MBES/SBP above Site JPTS-06B was undertaken.

3. Science Report

N/A

4. Core Recovery Details

Hole	Trigger corer (C)	GPC main (D)
Barrel length (m)	1.5	40
Cored length (m)	0.97	36.67
Curated length (m)	0.97	36.67
Recovery (%)	100	100
Number of sections	2	37

5. Time Breakdown

00:00 Stand-by at Site M0082.
08:00 Prepare running the 40 m GPC assembly.
08:25 Set Trigger to GPC assembly.
08:50 Run GPC assembly into water. Set inclinometer and transponder on a winch cable at 20 m and 50 m above the GPC weighthead respectively. Set winch speed at 1.1 m/s.
11:35 Hold running GPC assembly for 3 minutes at 8100 m depth in cable length for stabilization. Resume running GPC assembly down with 0.3 m/s.
11:46 Spud-in and release from Holes M0084 E and F at 8280 m in cable length (tension before: 5.6 tonf; after: 6.4 tonf; overpull: 11.1 tonf)
11:50 Run GPC assembly back to surface with 1.1 m/s of winch speed.
14:20 Recover Trigger corer to deck
14:45 Recover GPC to deck.
Dismantle Trigger corer and begin sampling.
Begin withdrawing and cutting core into 5 m segments while preparing the next run.
15:00 begin cutting 5 m segment into 1 m sections and sampling from each bottom end.
18:30 Complete cutting core into 1 m sections while sampling from each bottom end.
20:15 Complete making up 40 m GPC assembly.
Conduct MBES/SBP survey (1 line)

#1(SW-NE): From Lat: 36°53.9911' N, Long: 143°24.8405' E to Lat: 36°55.8441' N, Long: 143°26.0709'E

6. Hours (inc. cumulative total) – no contractual implications can be made from these figures

In port	35.0
Transiting	123.65
Operating	396.5
Technical downtime	0.0
Weather downtime	226.9
Other downtime (specify)	0.0

7. Weather

Fine and warm (~20 degC) with gentle northeasterly breeze (~6 m/s), with 0.5 m waves. The surface current flowed ~1.3 kt to the northeast throughout the day.

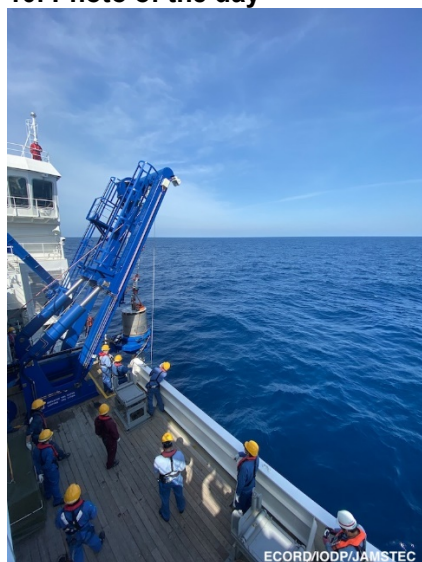
8. Planned Activity for the next 24 hours

Sail to off Ishinomaki for WOW. WOW

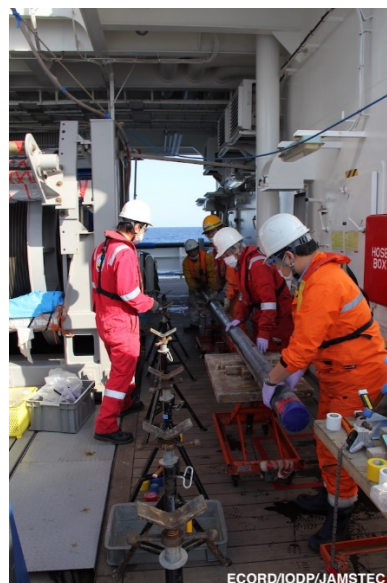
9. Health and Safety and Environmental

Toolbox talk before the operation

10. Photo of the day



1) Ready to run GPC into water (photo by NOKutsu@ECORD/IODP/JAMSTEC)



3) Core arriving at the cutting area (photo by LMaeda@ECORD/IODP/JAMSTEC)



2) Gallows, move outward! (photo by NOKutsu@ECORD/IODP/JAMSTEC)