



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



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

1. Location at noon

Position 36° 54.672' N, 143° 25.416' E

IODP-MSP borehole: M0092

Prospectus borehole: JTPS-06B

Water Depth: 7702 m

3. Operation

The ship arrived at Site JTPS-06B by 0515 hrs and stood-by to commence GPC operations. After setting the inclinometer on a winch cable at 20 m above the GPC weighthead, the 30 m GPC assembly was deployed at 0850 hrs and run down with winch speed set at 1.0 m/s. Running was suspended at 7800 m depth in cable length at 1110 hrs for stabilization and resumed after holding for 3 minutes with winch speed set to 0.3 m/s. Holes M0082 A and B were spudded-in and released at 7953 m of cable length at 1126 hrs. The GPC assembly was run back to surface at 1.0 m/s and recovered to deck at 1430 hrs. Soon after recovery, the Trigger corer was dismantled, and BW and sediment were sampled at the bottom of the core, while the deck crew and GPC operation team began withdrawing and cutting the core into 5 m sections. The science party started cutting 5 m segments into 1 m sections while sampling from each section bottom end at 1500 hrs. Section cutting and sampling were completed by 1630 hrs, and then curation and IW sampling began. The deck crew and GPC operation team completed making up the 40 m GPC assembly by 2015 hrs. MBES/SBP survey around Site M0092 was begun at 2015 hrs.

3. Science Report

N/A

4. Core Recovery Details

Hole	A (Trigger corer)	B (GPC main)
Barrel length (m)	1.5	30
Cored length (m)	1.1	30.07
Curated length (m)	1.1	30.07
Recovery (%)	100	100
Number of sections	2	31

5. Time Breakdown

00:00 Sail to Site JTPS-06B.
05:15 Arrive at the Site JTPS-06B and stand-by.
08:00 Prepare running 30 m GPC
08:25 Set Trigger corer to GPC assembly
08:50 Run GPC assembly into water. Set inclinometer on a winch cable at 20 m above the GPC weighthead. Start running down the GPC assembly with winch speed at 1.0 m/s
11:10 Hold running GPC for 3 minutes at 7800 m depth in cable length for stabilization. Resume running the GPC assembly down at 0.3 m/s.
11:26 Spud-in and released from Holes M0092 A and B at 7953 m in cable depth (tension before: 4.4 tonf, 5.2 tonf, overpull 8.4 tonf).
11:30 Run GPC back to surface at 1.0 m/s winch speed.
14:05 Recover Trigger corer on deck
14:30 Recover GPC assembly on deck.
Dismantle Trigger corer, cut core and collect BW.
Start withdrawing and cutting core into 5 m segments while preparing GPC assembly.
15:00 Start cutting core into 1 m sections while collecting sediment samples from each section bottom end
16:30 Complete cutting core into 1 m sections.
20:15 Complete making up 40 m GPC assembly for the next run.
Start MBES/SBP survey around Site M0092.

#1(N-S): From Lat: 36°56.8174' N, Long: 143°26.3390' E to Lat: 36°52.4940' N, Long: 143°24.4848' E

#6(E-W): From Lat: 36°52.9313' N, Long: 143°25.1787' E to Lat: 36°52.9179' N, Long: 143°23.7328' E
 #5(W-E): From Lat: 36°53.5137' N, Long: 143°24.0546' E to Lat: 36°53.5144' N, Long: 143°25.5664' E
 #4(E-W): From Lat: 36°54.1132' N, Long: 143°26.1020' E to Lat: 36°54.1245' N, Long: 143°24.5669' E
 #3(W-E): From Lat: 36°55.1527' N, Long: 143°25.2008' E to Lat: 36°55.1406' N, Long: 143°27.1780' E,
 on going

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

In port	35.0
Transiting	151.75
Operating	496.75
Technical downtime	4.0
Weather downtime	310.5
Other downtime (specify)	0.0

7. Weather

Fine in the morning, turning to overcast in the afternoon, and warm all day. A westerly wind blew <4 m/s and wave heights were ~1 m. Surface current maintained <1.2 knots at the site.

8. Planned Activity for the next 24 hours

Continue MBES/SBP and conduct 40 m GPC at Site M0092.

9. Health and Safety and Environmental

Toolbox talk before the operation

10. Photo of the day



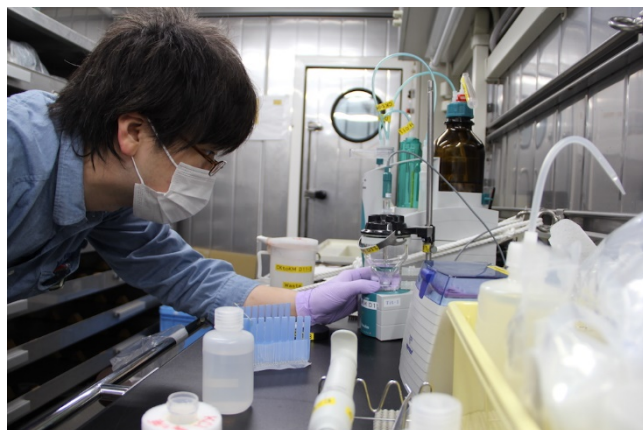
1) Blue sky in the morning (photo by Kikehara@ECORD/IODP/JAMSTEC)



2) GPC main rope (photo by TYokoyama@ECORD/IODP/JAMSTEC)



3) Taking care of a tangled rope. Cloudy sky in the afternoon (photo by LMaeda@ECORD/IODP/JAMSTEC)



4) A lab technician preparing a sample for IW analysis (photo by LMaeda@ECORD/IODP/JAMSTEC)