



## Week 1 Drilling and Scientific Report for IODP Expedition 386 Japan Trench Paleoseismology, 2021



12<sup>th</sup> Apr 00:00 – 19<sup>th</sup> Apr 24:00 JST Japan Standard Time (UTC+9)

### 1. Operations

- Apr 13<sup>th</sup>: All crew and Science Party members joined the Kaimei at Yokosuka. The ship departed from the JAMSTEC quay at 1000 hrs, and moved to a stand-by point off Yokosuka port for WOW.
- Apr 14<sup>th</sup>: Continued WOW off Yokosuka port. Firefighting and abandon ship drill was held on 0930 hrs. The science party held sampling discussion, while lab tech continued lab setup.
- Apr 15<sup>th</sup>: Continued WOW off Yokosuka port by 1400 hrs. The ship sailed to Sites JTPS-01A/02A. Meanwhile 1<sup>st</sup> sampling school was held.
- Apr 16<sup>th</sup>: The ship arrived at the survey area at 0500 hrs and was set to DP mode. MBES/SBP survey of the basin at Sites JTPS-01A/02A was conducted from 0630 hrs. The ship returned to Site JTPS-02A and attempted to keep position but was carried downstream due to strong current (~2.6 knot) and wind (~12 m/s). Decision was made that GPC operations would not be conducted and MBES/SBP survey would continue. The survey was started from 0815 hrs and completed by 1530 hrs. The ship moved to off Inubosaki cape for WOW. Meanwhile the science party had 2<sup>nd</sup> sampling school/discussion.
- Apr 17<sup>th</sup>: WOW. The ship moved from off Inubosaki to off Choshi port. Meanwhile the science party enjoyed a ship tour, MBES/SBP lecture by Co-Chief Ken Ikehara, and a 3<sup>rd</sup> sampling school was undertaken.
- Apr 18<sup>th</sup>: WOW off Choshi port. Meanwhile the science party had 4<sup>th</sup> sampling school focusing on Rhizon sampling and sample splitting.
- Apr 19<sup>th</sup>: After WOW off Choshi port, the ship moved to Sites JTPS-01A/02A at 1300 hrs. MBES/SBP survey was conducted from 2000 hrs. Meanwhile the science party completed labelling of all IW/BW vials.

### 2. Hole summary

No core recovered

Hole (Holes)	XXXXX
Latitude	xx° x' xx.xxx" N
Longitude	xx° xx' xx.xxx" E
First core	Xx
Last core	xxx
Cores recovered	xx
Drilled length (Coring)	xxx.xx m
Recovered length	xxx.xx m
Depth in hole	N/A
Hole recovery	xx.x%

### 3. Science

Hydroacoustic surveys were conducted along four NNE-SSW survey lines at the southernmost Japan Trench basin on Apr 16. Well-stratified acoustic pattern with penetration depth of >60 m was a characteristic feature of the sub-bottom profiler records in the basin. A few-m thick acoustic transparent layer covered the basin floor, and several acoustic transparent layers were also recognized in the strata.

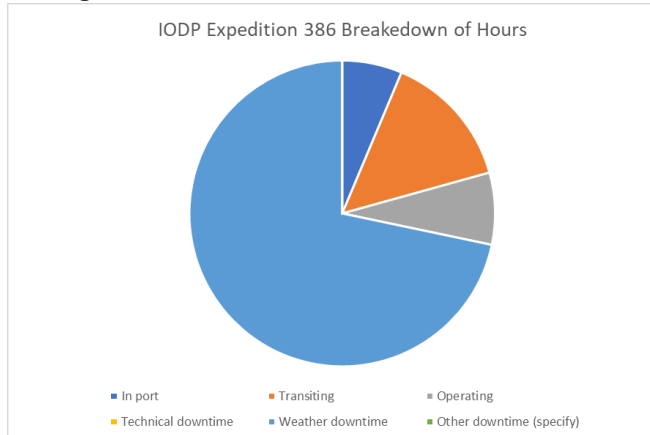
### 4. HSE Activity

- General ship safety induction for the science party on Apr 13  
Firefighting and abandon ship drill for all onboard personnel on Apr 14  
Chemical safety for the science party on Apr 18  
General safety meeting on Apr 19

## 5. Outreach Activity

Live broadcast of departure via Youtube.

## 6. Figures



In port	10
Transiting	22.65
Operating	12
Technical downtime	0
Weather downtime	113.15
Other downtime (specify)	0

Figure 1: Breakdown of hours from 00:00 April 12<sup>rd</sup> to April 19<sup>th</sup> 2021. Note that this plot includes an additional day to cover the end of the mobilisation and transit to the first site.

## 7. Photographs



1) Farewell to R/V Kaimei at Yokosuka dock side (KTakahashi@ECORD/IODP/JAMSTEC)



3) Kana Jitsuno and Kan-Hsi Hsiung practice Rhizon sampling (Nokutsu@ECORD/IODP/JAMSTEC)



2) Monitoring MBES/SBP data at No. 1 Laboratory (TKanamatsu@ECORD/IODP/JAMSTEC)



4) Labeled vials (LMaeda@ECORD/IODP/JAMSTEC)