
Press Releases



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JAMSTEC



International Ocean Discovery Program Expeditions 371 to Start: “Tasman Frontier Subduction Initiation and Paleogene Climate”

The International Ocean Discovery Program (IODP^{*1}) will begin Expedition 371, “Tasman Frontier Subduction Initiation and Paleogene Climate” by the *JOIDES Resolution*^{*2} on July 27.

This scientific expedition will core and log Paleogene and Neogene sediment sequences from boreholes in the Norfolk Ridge, New Caledonia Trough, Lord Howe Rise and Tasman Abyssal Plain ([figure 1](#)). It aims to elucidate the Paleogene sequence of tectonic events west of Norfolk Ridge that was associated with Tonga-Kermadec subduction initiation started at ~50 Ma and to understand if there is any relationship between paleogeographic changes due to the subduction initiation and anomalous regional warmth.

A total of 29 participating members include three scientists from Japan, and those from the U.S., European countries, New Zealand, China, South Korea and Brazil.

For more details, please refer to International Ocean Discovery Program Expeditions 371 at http://iodp.tamu.edu/scienceops/expeditions/tasman_frontier_subduction_climate.html

*1 International Ocean Discovery Program (IODP)

The International Ocean Discovery Program (IODP) is a multinational cooperative project that started in October 2013. The scientific drilling vessel D/V *Chikyu*, operated by Japan, and the *JOIDES Resolution*, operated by the U.S., are utilized for expeditions. There is also an option to charter mission-specific platforms from European countries. The mission of the IODP is to shed light on global environmental changes, the earth’s mantle and crustal dynamics and tectonics, and the biosphere beneath the seafloor. It took over the Integrated Ocean Drilling Program carried out from October 2003 to 2013.

*2 The *JOIDES Resolution* is the U.S. drilling vessel that participates in the IODP. Compared to the scientific deep-sea drilling vessel, the *Chikyu* by JAMSTEC, the *JOIDES Resolution* is used more often for drilling in shallow waters.



JOIDES Resolution ©IODP

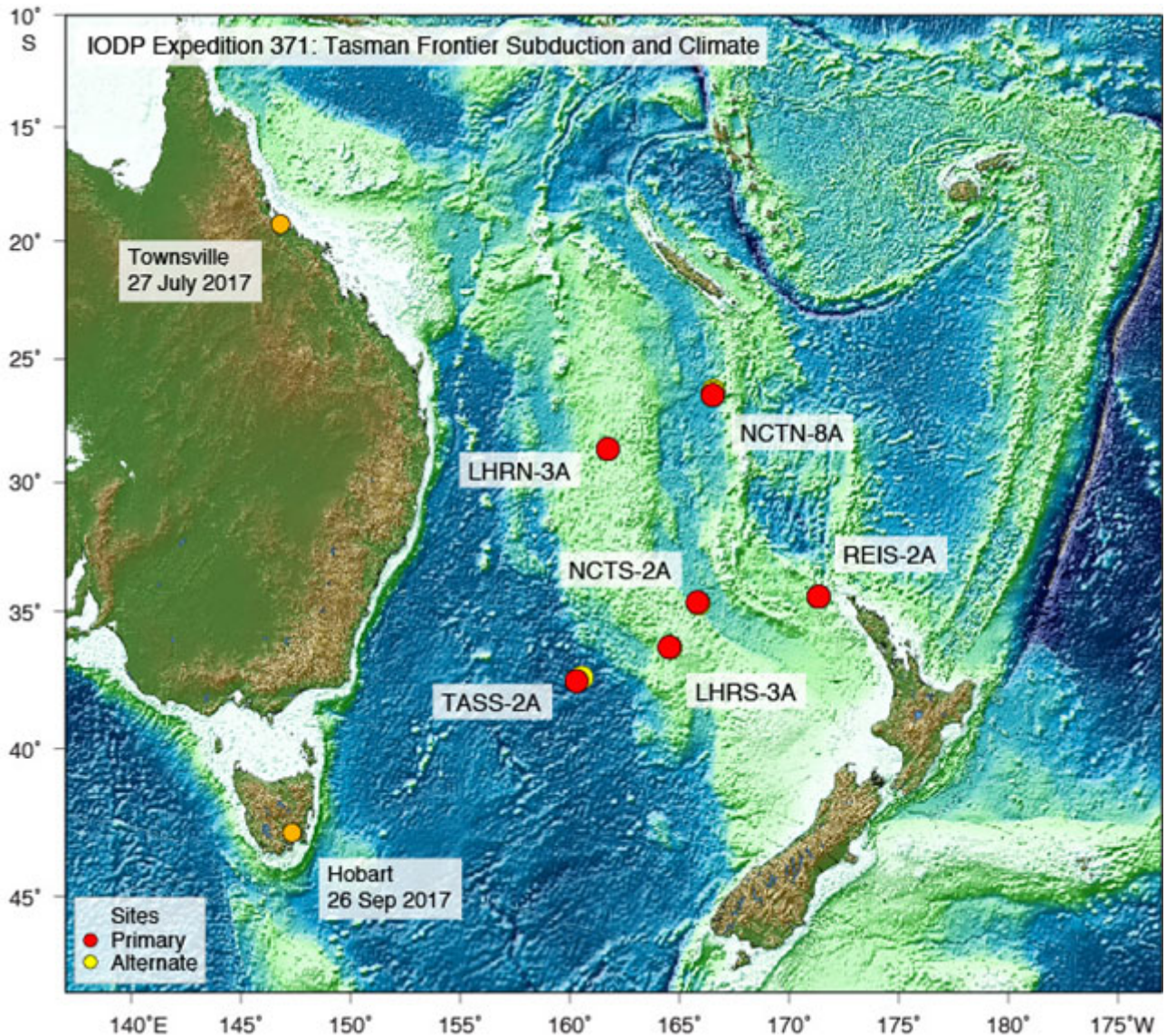


Figure 1. Planned drilling sites in this expedition (©IODP)

Table 1. Overview of Drilling Sites (order of drilling)

Site	Water depth	Depth of penetration	Estimated time at site
LHRN-3A	1,505m	320m	2.0
NCTN-8A	3,584m	700m	12.1

REIS-2A	1,581m	900m	8.1
NCTS-2A	2,924m	610m	9.7
LHRS-3A	1,250m	620m	6.5
TASS-2A	4,858m	960m	7.1

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