

Cruise Summary

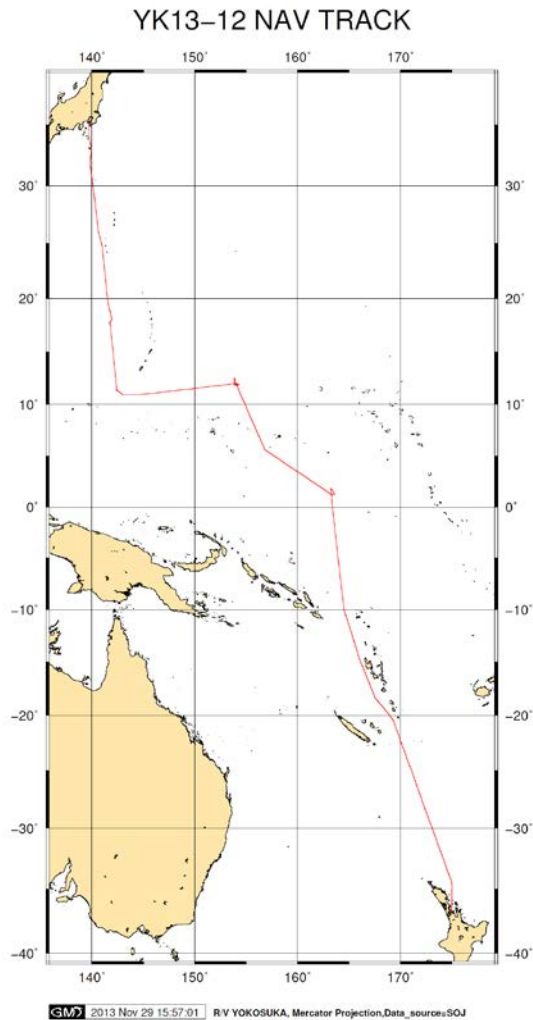
1. Cruise Information

- Cruise ID: YK13-12
- Name of vessel: Yokosuka
- Title of the cruise:

In situ experimental & sampling study to understand abyssal and hadal biodiversity and biogeochemical cycles

- Chief scientist [Affiliation]: Hidetaka Nomaki [JAMSTEC]
- Representative of the Science Party [Affiliation] : Hidetaka Nomaki [JAMSTEC], Hideki Kobayashi [JAMSTEC]
- Title of proposal:
 - In situ experimental & sampling study to understand abyssal biodiversity and biogeochemical cycles
 - Capturing of *Hirondellea gigas* from Challenger Deep to isolate their DNA and RNA
- Cruise period: Nov 7th to Nov 30th, 2013
- Ports of call: Auckland to Yokosuka
- Research area: western equatorial Pacific

- Research map



2. Overview of the Observation

- Overview of the observation

We carried out 1 dive at the equatorial Pacific, water depth of 4277m, 1 dive at the east off Guam, water depth of 5920m, and 1 deployment/recovery of free-fall camera system at the Mariana Trench. During two dives, we collected sediment core samples using a push corer, water samples using Niskin water sampler, and megabenthos samples by slurp gun. At the equatorial Pacific, we recovered 8 in situ incubation cores, 2 open type incubation boxes, and 1 holothurian cage which were deployed during YK13-09 cruise. Free-fall camera system which equipped 8 bait traps collected ~70 individuals of giant amphipods.