

Cruise Summary

1. Cruise Information

- Cruise ID: YK13-09
- Name of vessel: Yokosuka
- Title of the cruise: In situ experimental & sampling study to understand abyssal biodiversity and biogeochemical cycles
- Chief scientist [Affiliation]: Hidetaka Nomaki [JAMSTEC]
- Representative of the Science Party [Affiliation] (If there are no scientific proposals, it is not necessary to fill this section for exception) : Hidetaka Nomaki [JAMSTEC]
- Cruise period: Sep 18th to Oct 2nd, 2013
- Ports of call: Guam to Fiji
- Research area: western equatorial Pacific
- Research map
 - Examples:
Cruise Track, Dive points, Survey areas, Observation points, Survey lines etc.

2. Overview of the Observation

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- We carried out 2 dives at the equatorial Pacific, water depth of 4400m. During two dives, we collected sediment core samples using a push corer, water samples using Niskin water sampler, and megabenthos samples by slurp gun. We also carried out some in situ incubation experiments to investigate biological activity, organic matter consumption, and carbon production rates. We deployed 15 in situ incubation cores and recovered 7 of them. 4 open type incubation boxes and 3 holothurian cages were deployed and 2 of each were recovered on board. The other incubation systems will be recovered during YK13-12 cruise.