

## Rock samples from ocean drilling

*Friday 23 May 2025 14:15 (45 minutes)*

- “Chikyu” was the one of the leading scientific drilling vessels in International Ocean Discovery Program (IODP), and continues to be the same in the next International Ocean Drilling Programme3 (IODP3 = IODP-cubed). This presentation introduces Chikyu’s specifications, capabilities, wireline coring techniques, Small-Diameter Rotary Core Barrel (SD-RCB) system which was developed by JAMSTEC especially, and Chikyu’s past coring operation. (Yokoyama & Sakurai)
- This presentation will introduce where and how to sample natural minerals that should work well as paleo-detectors. In particular, we will focus on olivine, which is often found in rocks that contain less radioactive elements, and how to sample it. Where on earth have they been found? What geological age are they from? How deep are they from? Since scientific drilling is a powerful method to take deep rock samples, I will show how to access these samples. (Abe)

### Do you plan to give the talk in person?

Yes

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