

Biological production changes in the southwestern Okhotsk Sea during the last 30 kyrs

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We present preliminary results of CaCO₃, total organic carbon (TOC), ¹³C and ¹⁵N records of MR06-04 PC04B core (position: 44.53 degree N, 145 degree E; water depth: 1213 m; core length: 18.79 m). PC04B core was obtained from off Hokkaido in the southwestern Okhotsk Sea during the MR06-04 Leg 1 cruise of R/V Mirai, August 2006. The location of the core site is almost same as the IMAGES MD01-2412 core site. An estimated bottom age is ca. 30 ka based on comparison of magnetic susceptibility data between PC04B and MD01-2412 cores. Our data will provide new insights on the Holocene variability because upper part of MD01-2412 was stretched artificially due to the giant piston coring system. Also, we will discuss on biological production changes during the last deglaciation deduced from PC04B and MD01-2412 results.