

Planktonic foraminiferal assemblage related to the paleoceanographic records during the last 200,000 years in the East China Sea

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The Kuroshio Current has effected the climate in the North Pacific Ocean during the late Cenozoic. After diverting from the North Equatorial Current, the Kuroshio flows into the East China Sea and takes its the feature of the water mass. In 1998, the long piston core sample was obtained from the East China Sea by the IMAGES 4 cruise. The stable oxygen isotopic ratio of this core shows glacial-deglacial cycles in detail during the last 200,000 years, using the digital date of AMS14C age and tephrochronology. Under these time control, we show the frequencies of the Kuroshio Current and another water mass based on the planktonic foraminiferal assemblage. The final goal of this work is understanding the paleoceanography of the middle~low latitude area, western Pacific Ocean.