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Geochemical Investigation of long core collected by MD179 Cruise

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The two long piston cores were collected from Japan Sea during the MD179 Cruise, at June of 2010. Biomarker analysis, quantitative and isotope analysis of total sulfur and elemental sulfur were investigated in these two cores.

(1) An analytical method for the determination of elemental sulfur using gas chromatography ? mass spectrometry (GC-MS) was developed. (2) The quick method for sulfur isotope analysis was developed for not only sediment samples but also interstitial water. (3) The conventional analysis was carried out to determine the sedimentary environment of Japan Sea.

Keywords: black shale, biomarker, sulfur isotope, elemental sulfur