Late Neogene to Quaternary turbidite deposition in the northern Japan Basin and its relation to regional tectonics

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Many fine-grained turbidite beds occurred in core at Site U1422 of IODP Expedition 346 on the northeastern Japan Basin. Turbidite sediments contain much feldspar, suggesting grain supply of volcanic materials from the Japanese island arc. Muddy turbidite disappears at around 1.7 Ma. Stepwise decreasing of sedimentation rate at around 1 and 0.6 Ma also reflects the change of uplift mode of the Okushiri Ridge. Both change of turbidite deposition and of sedimentation rate in the northeastern Japan Basin margin might reflect the regional tectonics along the eastern margin of the Japan Sea.

Keywords: turbidite, Eastern margin of Japan Sea, tectonics