

Age models in two piston cores (MD179-3312 and 3304) off Joetsu in the southwestern part of the Japan Sea: based on the

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We constructed the age models of MD179-3312 and MD179-3304 off Joetsu, in the southwestern part of the Japan Sea based on AMS ¹⁴C determinations, tephra identifications, MIS events (as control points) and correlations of TL layers (as sub-control points). Bases of 11 TL layers (TL-1, TL-2, TL-3, TL-12, TL-14, TL-18, TL-19, TL-20, TL-21, TL-22 and TL-23) could be recognized the same horizons by the correlations with microfossil dates. The estimated sedimentation rates of core 3312 in average were about 0.24 m/kyr lower than those of core 3304, 0.32 m/kyr.

Keywords: Japan Sea, biostratigraphy, age model, late Quaternary, gas hydrates, TL layers