

Report of NGH99 Cruise intending to elucidate the relationship between mechanism of gas hydrate deposits and heat flow

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Detailed heat flow survey has been made in continental slope areas off Muroto-zaki, with a purpose of cross-checking the BSR-derived heat flow data from seismic records and probe heat flow data, using a POGO style heat flow system as well as piston corer type heat flow system. Total number of good heat flow measurements amounts to 67 during the two-week long cruise made in September, 1999. Analyses are ongoing which include chemical analysis on the sediment core samples, physical property measurements, and their interpretation works. Very good heat flow data set has been established for one of the 3-D seismic line surveyed by R/V M.Ewing in summer 1999.