

Heat flow distribution in the eastern Nankai Trough region

Shusaku Goto[1], Masataka Kinoshita[2], Makoto Yamano[3], Juichiro Ashi[4]

[1] Tokai Univ., [2] Sch. Mar. Sci. Tech., Tokai Univ., [3] ERI, Univ. Tokyo, [4] Geological Institute, Univ. Tokyo

52 heat flow data were obtained from the eastern Nankai Trough region to the accretionary prism. In trough region, measured heat flow values seem to be lower than those expected from the age of subducting Shikoku basin. Along large thrust in the frontal thrust area near the trough region, convex temperature profiles were measured, indicating existence of cold seepage along the thrust area. Heat flow values in the trough area seem to be slightly higher than accretionary prism. Heat flow values in the accretionary prism 20 km landward from the deformation front are very constant.