

Discussion on Recent Shortening Tectonics and 'Lithosphere Subduction' at the Eastern Margin of the Japan Basin

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Basing on currently available data of horizontal shortening tectonics, we discussed possible site(s) of lithosphere subduction, at the eastern Japan basin. It seems that the 'eastern Japan sea thrust zone,' being convex toward the east, cannot change itself to a mature subduction zone. Whereas, recent marine survey data suggest a line of thrust zone which is called 'Rebun Is. - Off Oga tectonic line,' being convex slightly toward the west, at the eastern Japan basin. It appears that the Rebun Is. - Off Oga tectonic line is one of the candidates to be developed as the starting site of the lithosphere subduction in the future tectonic stage. It is not convincing that the currently active tectonic lines at the eastern margin of the basin have already been forming the subduction zone.