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Seismic expeditions of the deep crustal structures in Chubu, Japan, and new research scope of the crustal movements

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Active tectonics in Chubu is deeply controlled by the crustal structures deeply modified and established during the opening of the Japan Sea in middle Miocene, as pointed by Prof. Kano in this session of last year. This requires us to reveal the deep crustal structures in Chubu at first. Thus we have started the 3-year research program for seismic expeditions of the deep crustal structures since 2008. There are two main targets of the expeditions. One is the bending structures caused by the collision of the Izu arc, and the other is the interaction between the lower crust / the upper mantle and the upper surface of the subducting Philippine Sea plate beneath Chubu. As the former expedition was made last fall, we introduce the present stage of processing. We also discuss the new research scope of the crustal movements enlarged by the program.