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Room:Convention Hall

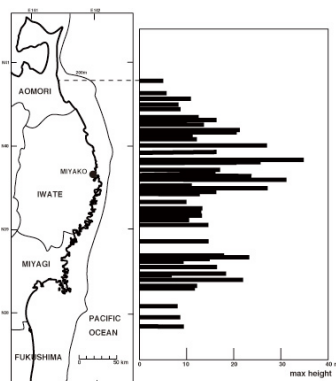
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Characteristic maximum heights observed in the 2011 Tohoku Earthquake Tsunami

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Field surveys were carried out to detect the maximum tsunami heights of the 2011 off the Pacific coast of Tohoku Earthquake. The heights were obtained at 56 points distributing from Misawa fishing port in Aomori prefecture to Soma port in Fukushima prefecture, as shown in Fig.1. Maximum and minimum values in them are 36.4m and 5.6m, respectively, and the average is 14.6m. We noticed two important facts. One of them is a water height increase at V shaped valleys and another is a moderate height at the heads of long bays. The former is characteristic to a short-period wave and the latter is to a long-period wave. Such a double-period wave is attributed to tsunami formation from a large-scaled fault of about 200 km in width under a deep sea of about 3000m.



Keywords: the 2011 off the Pacific coast of Tohoku Earthquake, tsunami, field survey, V shaped valley, bay