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Inundation area by the 2011 Tohoku earthquake tsunami in Sendai plain: comparison to the 869 Jogan earthquake tsunami



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1. Introduction

The coastal plains in Sendai City and neighboring areas were extensively inundated by the 2011 Tohoku Earthquake Tsunami, and caused massive human and property damages in this region. Data on inundation area in the Sendai Plain (distances and heights of tsunami run-up) have been obtained through the post-tsunami field survey of the 2011 event^[4]. In this study, inundation area by the 2011 tsunami is compared with that by the Jogan earthquake tsunami, which has been known as one of the largest historical event in Tohoku (northeast) region of Japan. Inundation area of the Jogan tsunami was previously estimated based on the sediment distribution and numerical modeling of the tsunami^[1].

