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SSS30-06 Room:106 Time:May 20 17:30-17:45

On the sea level changes that were witnessed before the 1946 Nankai earthquake on the Pacific coast of Shikoku(2)

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Just before the 1946 Nankai earthquake, there are the witness testimonies which the sea level have decreased by 2m~3m at Susaki and Usa bay on the Pacific coast of Shikoku, Japan. To confirm the large amplitude of sea level change before the main shock, the sea level observations were carried out at 7 stations around the Susaki bay from November 2010 to March 2012. The tsunami caused by the 2011 off the Pacific coast of Tohoku earthquake was observed. The tsunami amplitude in Susaki bay has a larger 8 and 20 times than that observed about at 100m (Terada et.el., 2010) and 2300m(JAMSTEC) depth. The spectrum peaks of tsunami are about 85, 50 and 37 minutes. Almost same spectral peaks were observed at the storm and the stable weather. This fact suggests that the same spectra at Susaki are generated by the small vertical movements which occur repeatedly at different sea bottom.

Keywords: Nankai earthquake, sea level change, witness testimony, tsunami