Japan Geoscience Union Meeting 2014 (28 April - 02 May 2014 at Pacifico YOKOHAMA, Kanagawa, Japan) ©2014. Japan Geoscience Union. All Rights Reserved. Japan Geoscience Dur Area net hour two

MIS23-P12

Room:Poster

The use of benthic foraminifera within tsunami sediments

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Tsunami hazard assessment begins with a compilation of past events that have affected a specific location. Given the inherent limitations of historical archives, the geological record has the potential to provide an independent dataset useful for establishing a richer, chronologically deeper time series of past events. Recent geological studies of tsunami are helping to improve our understanding of the nature and character of tsunami sediments. Wherever possible, researchers should be increasingly working to improve the research ' tool kit' available to identify past and analyse modern tsunami events. Marine, benthic foraminifera (single celled heterotrophic protists) have often been reported as present within tsunami-deposited sediments but in reality, little information about environmental conditions, and by analogy, the tsunami that deposited them, has been reported even though foraminifera have an enormous capacity to provide meaningful palaeo-environmental data. In light of more recent tsunami events, the use of foraminifera within tsunami research using results from specific case studies from Japan, south Asia, North America, Europe, the UK and New Zealand. We present an updated review in the gaps in our understanding on this topic area and reassert models for ' better' practice where possible, to assist researchers who examine foraminiferal assemblages within tsunami geology.

Keywords: Tsunami, Foraminifera, Benthic, Tsunami deposit