



The Italian National Tsunami Alert System (SiAM)

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The National Italian System for (Tsunami Alert (Sistema italiano per l'Allertamento Maremoti di origine sismica, SiAM) has been officially constituted in 2017, after a Directive of the Prime Minister published on June, 5th. The System is coordinated by the Italian Department of Civil Protection (DPC) and includes INGV for hazard assessment, real time analysis and alerting, and ISPRA for sea-level data and the definition of inundation areas. Operations had started experimentally in 2014, when INGV set up the Centro Allerta Tsunami (CAT) and started issuing messages as candidate Tsunami Service Provider (CTSP) in the NEAMTWS framework, for the entire Mediterranean basin. CAT-INGV has been accredited as TSP in 2016. ISPRA contributes sending sea level data of the National Mareographic Network (RMN) to CAT-INGV in real time. DPC is in charge of disseminating alert messages on the Italian territory. In this presentation we describe the current status of the SiAM system, the ongoing developments for setting up the guidelines to coastal municipalities, and report on the performance of CAT-INGV with earthquakes at global level (used for training) and in the Mediterranean. In particular, we will describe the analysis of the two 2017 earthquakes in Greece-Turkey (Lesvos and Kos-Bodrum) for which alert messages were issued by the CAT-INGV within 10 minutes from the earthquakes' occurrence.