



Liquefaction phenomena triggered by the July 20, 2017 Bodrum-Kos earthquake Mw6.6, in the island of Kos, Greece

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The strong shallow earthquake earthquake Mw6.6 occurred on July 20, 2017 at 22:31 UTC (01:31 local time) in Gökova Bay offshore between Bodrum, Turkey and the island of Kos, Greece, Aegean Sea. The secondary effects were documented during a field survey conducted on 13-14 August, 2017. Liquefaction-induced failures were reported at cape Louros and at the waterfront area of the city of Kos. In particular, the main pier of the port and the custom building were heavily damaged due to liquefaction related phenomena and loss their functionality. In addition, for the first time, a SfM technique was applied by using a ground-based simple digital camera in order to measured the lateral spreading e.g. horizontal and vertical displacements along a transect perpendicular to the seashore at the old harbor of the city of Kos.