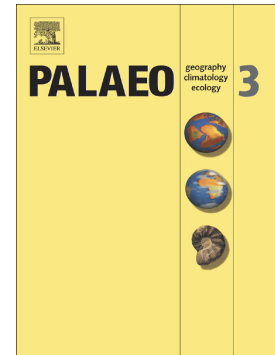


Accepted Manuscript

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PII: S0031-0182(17)30082-2
DOI: doi: [10.1016/j.palaeo.2017.01.033](https://doi.org/10.1016/j.palaeo.2017.01.033)
Reference: PALAEO 8172

To appear in: *Palaeogeography, Palaeoclimatology, Palaeoecology*

Received date: 21 July 2016
Revised date: 19 January 2017
Accepted date: 23 January 2017

Please cite this article as: Ángel Puga-Bernabéu, Julio Aguirre , Contrasting storm- versus tsunami-related shell beds in shallow-water ramps. The address for the corresponding author was captured as affiliation for all authors. Please check if appropriate. Palaeo(2016), doi: [10.1016/j.palaeo.2017.01.033](https://doi.org/10.1016/j.palaeo.2017.01.033)

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Contrasting storm- *versus* tsunami-related shell beds in shallow-water ramps

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Abstract

Shell beds are sedimentary features that can potentially provide significant palaeoenvironmental and sequence stratigraphic information. High-energy events, such as storms/hurricanes and tsunamis, might originate sedimentary shell beds due to either landward-incoming waves or basinward backwash flows. Many papers have dealt with the taphonomic characterization of storm shell beds (= tempestites) along palaeobathymetric gradients. On the contrary, only a few taphonomic studies have examined the skeletal remains deposited in tsunami shell beds (= tsunamiites). These studies seek to differentiate taphonomic traits of skeletal remains in tempestites and tsunamiites. These assessments are restricted to tsunamiites deposited inland in connection with historically well-known tsunami events. To date, no studies of tsunami shell beds deposited offshore are available in the literature and, consequently, whether taphonomic attributes can be used to separate storm and tsunami shell beds deposited along the shelf remain to be demonstrated. In the Sorbas Basin (SE Spain), uppermost

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