

Accepted Manuscript

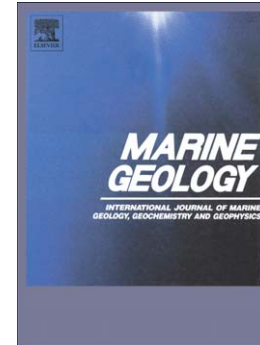
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PII: S0025-3227(15)00003-1
DOI: doi: [10.1016/j.margeo.2014.12.007](https://doi.org/10.1016/j.margeo.2014.12.007)
Reference: MARGO 5242

To appear in: *Marine Geology*

Received date: 3 September 2014
Revised date: 28 December 2014
Accepted date: 30 December 2014



Please cite this article as: Kakroodi, A.A., Leroy, S.A.G., Kroonenberg, S.B., Lahijani, H.A.K., Alimohammadian, H., Boomer, I., Goorabi, A., Late Pleistocene and Holocene sea-level change and coastal palaeoenvironment evolution along the Iranian Caspian shore, *Marine Geology* (2015), doi: [10.1016/j.margeo.2014.12.007](https://doi.org/10.1016/j.margeo.2014.12.007)

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Late Pleistocene and Holocene sea-level change and coastal palaeoenvironment evolution along the Iranian Caspian shore

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Abstract

The level of the Caspian Sea is influenced by rivers mostly from the high latitudes of the Northern hemisphere and therefore any change of its catchments including temperature and precipitation directly reflects on Caspian Sea-level.

We reconstructed Late Pleistocene to Holocene Caspian sea-level by a multi-disciplinary approach from a 27.7 m long core in the SE corner of the Iranian Caspian coast in the Gomishan Lagoon. Late Pleistocene deposits containing typical Pleistocene fauna and dated around 20,120 cal. yr BP bordered with a major hiatus indicating sea-level fall. Lagoonal deposits with shells dated at around 10,590 cal. yr BP suggest that, after this deep lowstand, an initial transgression started, leading to landward advance of barrier-lagoon systems which

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