## Accepted Manuscript

Bioerosion structures in high-salinity marine environments: Evidence from the Al-Khafji coastline, Saudi Arabia

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PII: S0272-7714(17)30914-9

DOI: 10.1016/j.ecss.2018.03.005

Reference: YECSS 5782

To appear in: Estuarine, Coastal and Shelf Science

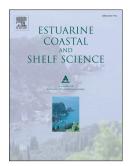
Received Date: 19 September 2017

Revised Date: 18 January 2018

Accepted Date: 4 March 2018

Please cite this article as: El-Sorogy, A.S., Alharbi, T., Richiano, Sebastiá., Bioerosion structures in highsalinity marine environments: Evidence from the Al–Khafji coastline, Saudi Arabia, *Estuarine, Coastal and Shelf Science* (2018), doi: 10.1016/j.ecss.2018.03.005.

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1	<b>BIOEROSION STRUCTURES IN HIGH-SALINITY MARINE</b>
2	ENVIRONMENTS: EVIDENCE FROM THE AL-KHAFJI COASTLINE, SAUDI
3	ARABIA
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13	Abstract
14	Salinity is one the major stress factors that controls the biotic activities in marine
15	environments. In general, the mixture with fresh-water has been mention as a great stress
16	factor, but the opposite, i.e. high-salinity conditions, is less developed in the ichnological
17	literature. Along the Al-Khafji coastline, Saudi Arabia, hard substrates (constituted by
18	gastropods, bivalves and coral skeletons) contain diverse and abundant bioerosion traces
19	and associated encrusters. Field and laboratory observations allowed the recognition of
20	eight ichnospecies belong to the ichnogenera Gastrochaenolites, Entobia, Oichnus,
21	Caulostrepsis and Trypanites, which can be attributed to various activities produced by
22	bivalves, sponges, gastropods and annelids. The borings demonstrate two notable

23 ichnological boring assemblages, namely, Entobia-dominated and Gastrochaenolites-

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