Clim. Past Discuss.,
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Climate of the Past Discussions

Interactive comment on "Extreme storms during the last 6,500 years from lagoonal sedimentary archives in Mar Menor (SE SPAIN)" *by* L. Dezileau et al.

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Reviewer #1: S.A.G Leroy: 1- More details are necessary for section 3.3 macro-fauna: samples of which volumes were taken, was it a fixed volume? If not, were the counts reduced to a common volume and which was it? This links to the caption of the axes of figure 5: number of individuals per g, per ml, per 10 g, 50 ml?

Macro-fauna samples were taken at fixed volume (100 cm3). This information is added in section 3.3 and in figure 5.

2- Section 4.2: you have analysed surface samples across the lagoon. Their results are extremely relevant to your interpretation. Hence I strongly suggest that you include

them in this manuscript. We need to know where the samples where taken, and what are the detailed results.

We agree with the reviewer. A figure is added in section 4.2. This figure (figure 2b) shows that the percentages of the mean grain population ranging between 160 and 653 μm decrease from the sea to the lagoon in surface samples.

3- Points of details

Done

4- Figure 5: why is the red curve first continuous, then dashed? Define N and S in the caption, add the units

Done

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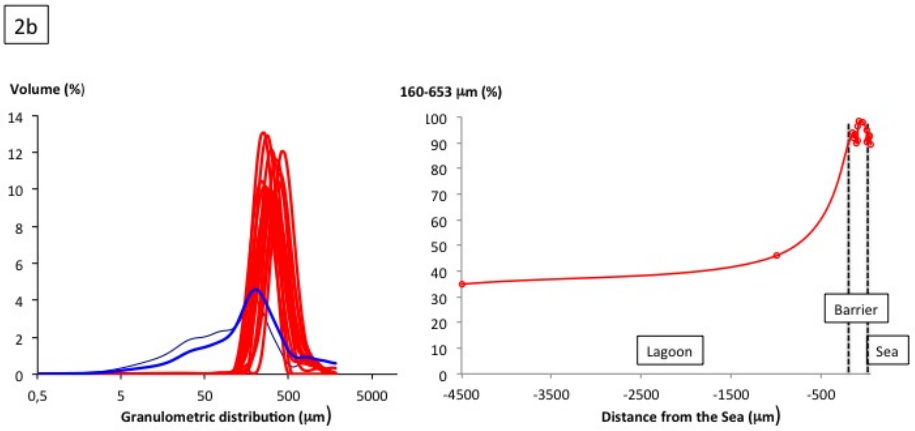
2b
Volume (%)
14
12
10
8
6
4
2
0
0,5
5
50
500
5000
Granulometric distribution (µm)
160-653 µm (%)
100
90
80
70
60
50
40
30
20
10
0
-4500
-3500
-2500
-1500
-500
Distance from the Sea (µm)
Barrier
Lagoon
Sea

Fig. 1.