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Open Access Earth System Science Data Discussions

Interactive comment on "Mediterranean Sea climatic indices: monitoring long term variability and climate changes" *by* Athanasia Iona et al.

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The authors would like to thank the reviewer for the comments and suggestions for the improvement of the manuscript. All the comments mentioned in the supplement document "essd-2018-51-RC2-supplement.pdf" were taken into account (see "essd-2018-51-response_to_RC2-supplement.pdf") and the manuscript will be edited accordingly.

Please also note the supplement to this comment:
https://www.earth-syst-sci-data-discuss.net/essd-2018-51/essd-2018-51-AC3-supplement.pdf

Interactive comment on Earth Syst. Sci. Data Discuss., https://doi.org/10.5194/essd-2018-51, 2018.

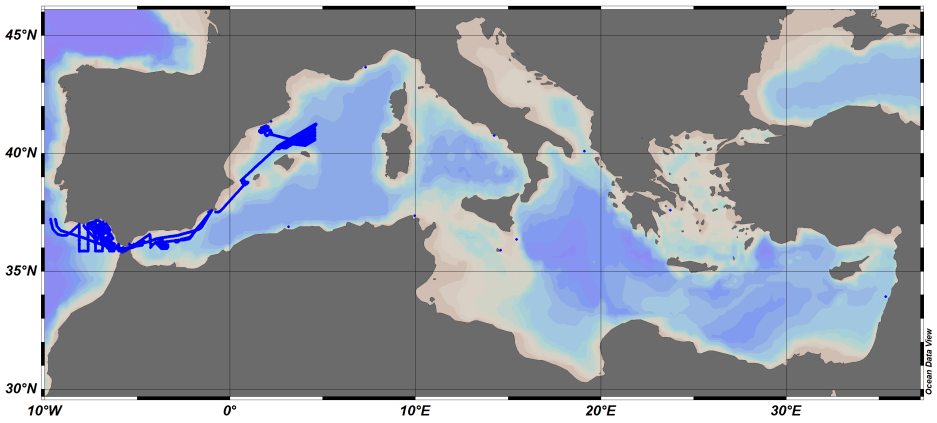

Fig. 1.

OSC (in ppt m^3):

$$OSC = \sum_{i=1}^{n} dxdy \int_{z1}^{z2} \Delta S \, dz$$

Areal density of OSC (in ppt m):

$$Areal\ Density\ OSC = \int_{z1}^{z2} \Delta S dz,$$

Fig. 2.

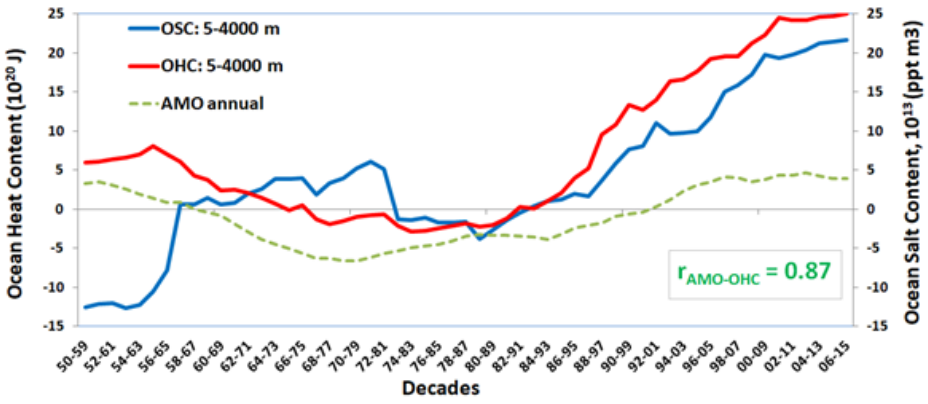
OSC: 5-4000 m
OHC: 5-4000 m
AMO annual
$r_{AMO-OHC}$ = 0.87
Ocean Heat Content (10^{20} J)
Ocean Salt Content, 10^{13} (ppt m3)
Decades

Fig. 3.

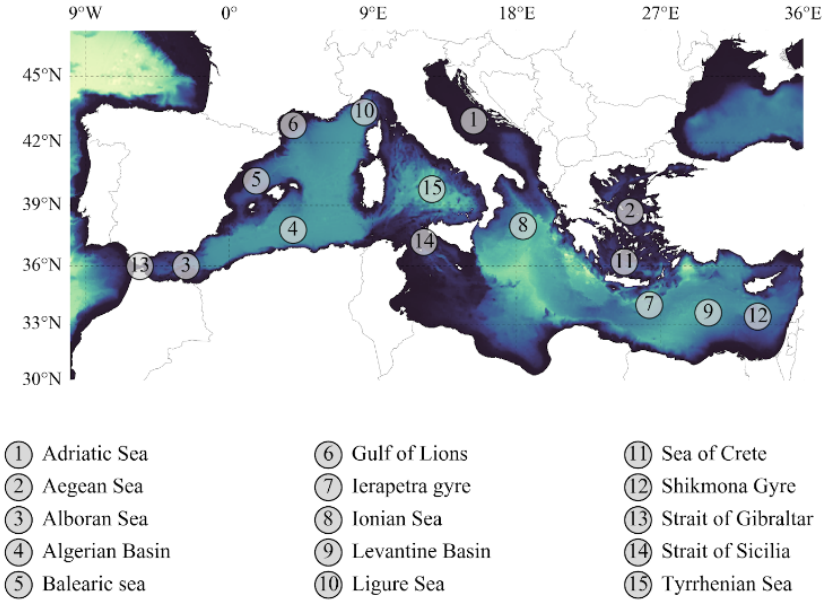
9°W
0°
9°E
18°E
27°E
36°E
45°N
42°N
39°N
36°N
33°N
30°N
1 Adriatic Sea
2 Aegean Sea
3 Alboran Sea
4 Algerian Basin
5 Balearic sea
6 Gulf of Lions
7 Ierapetra gyre
8 Ionian Sea
9 Levantine Basin
10 Ligure Sea
11 Sea of Crete
12 Shikmona Gyre
13 Strait of Gibraltar
14 Strait of Sicilia
15 Tyrrhenian Sea

Fig. 4.