

***Interactive comment on “The Civitavecchia Coastal Environment Monitoring System (C-CEMS): a new tool to analyse the conflicts between coastal pressures and sensitivity areas” by S. Bonamano et al.***

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The Authors wish to thank the Referee #1 for his useful suggestions that will contribute to improve the overall quality of the manuscript.

A detailed response to the queries is provided below:

Page 1601 lines 7-24: “Data processing and standardization” is going to be reduced and integrated to “Fixed Station”

Page 1602 lines 3-19: the satellite observations are daily downloaded and processed,  
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when available. As suggested by the reviewer the paragraph “Satellite Observation” is going to be rewritten highlighting the data processing chain and the algorithms used to calculate the TSM and Chla.

Page 10607 lines 3-7: The health status of *Posidonia oceanica* meadows located in the two SCIs (here called respectively Northern SCI, NS, and Southern SCI, SS) has been evaluated by shoot density descriptor. This parameter was acquired by scuba-diver in the late Spring of 2013 in correspondence of 18 stations (3 in NS and 11 in the SS) following the method reported in Buia et al. 2003 (Buia M.C., Gambi M.C., Dappiano M. 2003. I sistemi a fanerogame marine. In: Gambi M.C., Dappiano M. (Editors). Manuale di Metodologie di campionamento e studio del bentos marino mediterraneo. Biol. Mar. Med, 19 (Suppl.):145-198). The thematic map is obtained spatially interpolating the data collected in the two areas. As also reported in Bonamano et al. (2015), the suspended sediment produced by dredging activities does not affect the health status of the *Posidonia oceanica* meadows in the NS, because of the slightly higher shoot density values after the dredging than those acquired before the dredging.

Figures: the scale bar and the North arrow have been reported in Figure 5 (a and b), 6 (a and b) and 7 (a and b). The map of Italy has been included in the Figure 1 and the legends of the Figures 7a and 7b have been zoomed.

Technical correction: we eliminated “we solved the”

These changes should be integrated with those required by Reviewer # 2, therefore the authors ask the Reviewer # 1 to give a comment about them, if necessary.

The authors are waiting for a reply by the reviewer.

Best regards

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