



Mediterranean Marine Science

Vol 23, No 1 (2022)

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doi: 10.12681/mms.26314

To cite this article:

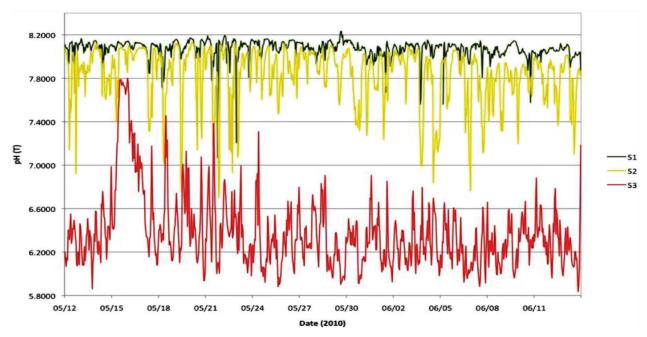
KOUTALIANOU, M., BUIA, M. C., & KATSAROS, C. (2022). In situ experiments on the effect of low pH on the ultrastructure of the seagrasses Cymodocea nodosa and Posidonia oceanica. *Mediterranean Marine Science*, *23*(1), 30–45. https://doi.org/10.12681/mms.26314

Mediterranean Marine Science
Indexed in WoS (Web of Science, ISI Thomson) and SCOPUS
The journal is available on line at http://www.medit-mar-sc.net
www.hcmr.gr
DOI: http://doi.org/10.12681/mms.26314

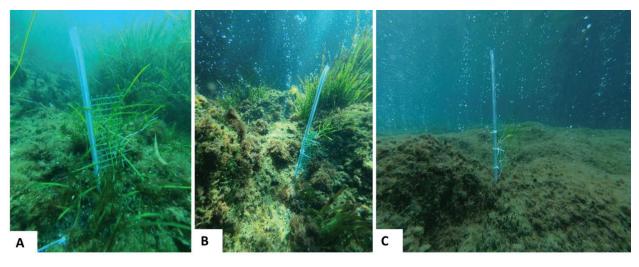
In situ experiments on the effect of low pH on the ultrastructure of the seagrasses Cymodocea nodosa and Posidonia oceanica

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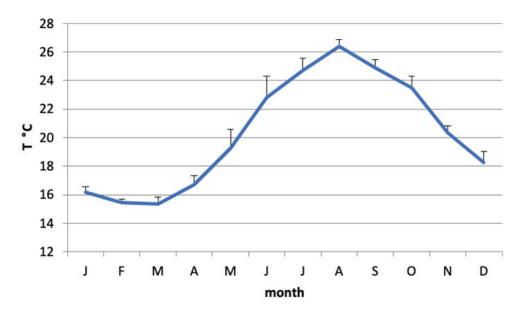
Mediterranean Marine Science, 2022, 23 (1)



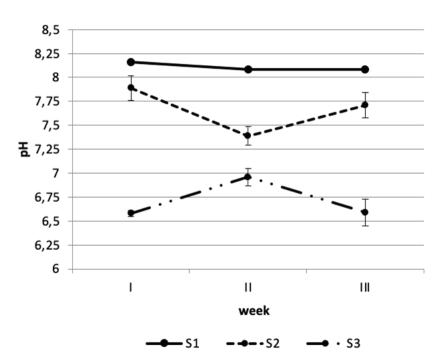
Suppl. Fig. 1: Variability of seawater pH on the southern side of the Castello Aragonese (from Porzio et al., 2011).



Suppl. Fig. 2: Plastic frame with iron bar used for the experimental procedure at area S1 (A), area S2 (B) and area S3 (C).

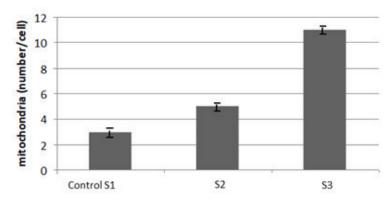


Suppl. Fig. 3: Water temperature in June and July (experimental period), matching ambient seasonal fluctuations (13-25°C).

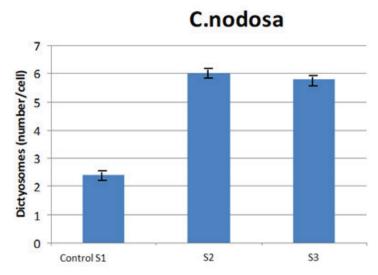


Suppl. Fig. 4: Weekly mean values of pH recorded at the three vents sites, varying from 8.08 ± 0.004 (S1) to 7.71 ± 0.133 (S2) to 6.584 ± 0.145 (S3).

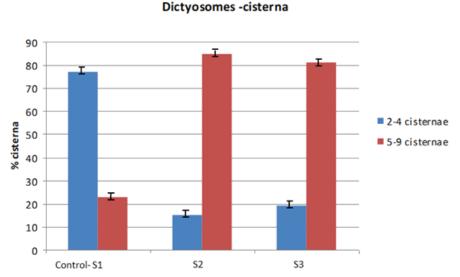
C. nodosa



Suppl. Fig. 5: Histogram showing the number of mitochondria in epidermal cells in *C. nodosa* in the control area and in S2 and S3 areas. Transfer for one week in S2 resulted in a slight increase of the number of mitochondria per cell; at S3 mitochondria were three times as abundant compared to the control.



Suppl. Fig. 6: Histogram showing the number of dictyosomes in epidermal cells in *C. nodosa* in the control area and after one week in S1 and S2 areas.



Suppl. Fig. 7: Histogram showing the percentage of dictyosomes with a specific number of cisternae (2-4 and 5-9) in epidermal cells in *C. nodosa* in the control area and after one week in S2 and S3 areas. After one week in S2 and S3 areas the number of dictyosomes with 5-9 cisternae was increased to four times that of the control.