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*Supplement of*

## **Seagrass meadows as a globally significant carbonate reservoir**

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Data used for analysis are archived on the Spanish Research Council database repository (CSIC digital) (<http://digital.csic.es/handle/10261/116550>) with the reference:

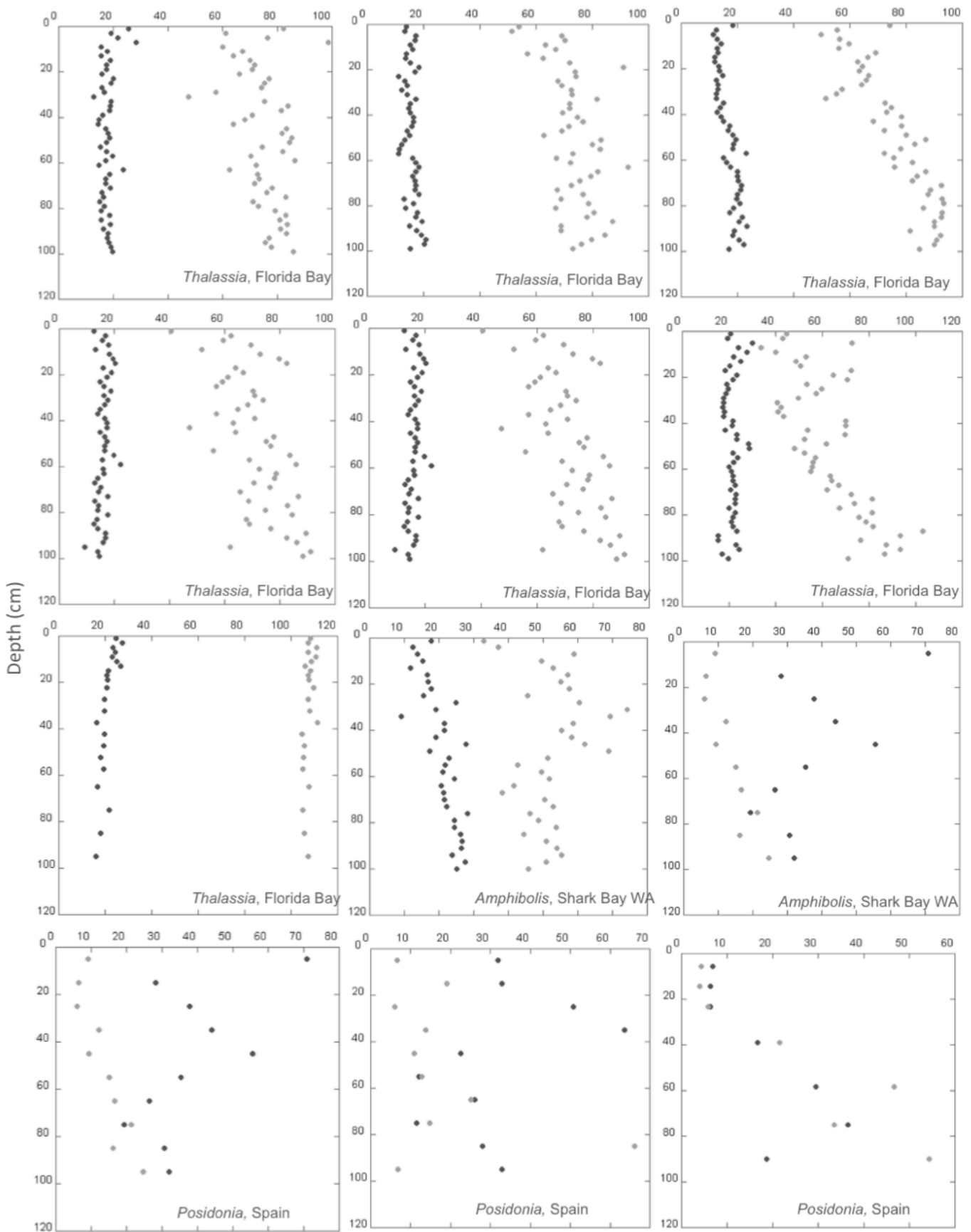
Mazarrasa, Inés; Marbà, Núria; Lovelock, Catherine E.; Serrano, Oscar; Lavery, Paul S.; Fourqurean, James W.; Kennedy, Hillary; Mateo, Miguel Ángel; Krause-Jensen, Dorte; Steven, Andy D. L.; Duarte, Carlos M. " Sediment inorganic carbon (PIC) deposits in seagrass meadows and adjacent sand-patches", 2015, DIGITAL.CSIC.

Table S1: Data descriptors of the observed, estimated and total data available on top meter PIC stocks (Mg PIC ha<sup>-1</sup>).

Top meter stocks (Mg PIC ha <sup>-1</sup> )	N	Mean	SE	Median	Max	Min
Observed	35	423.5	52.2	289.0	1189.5	17.9
Estimated	368	675.5	25.8	691.6	1660.0	3.1
Total	403	653.6	24.2	643.2	1660.0	3.1

Figure S1: Carbon concentration ( $\text{mg C cm}^{-3}$ ) (black and grey dots for POC and PIC respectively) along the top meter profile of the longest cores in the database ( $P \geq 100$  cm) that had a minimum of three different data reported over one meter depth ( $n=26$ ). Meadow dominant genera and region are specified in each panel.

Carbon density ( $\text{mg C cm}^{-3}$ )



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