

Supplementary Material

Seagrass thermal limits and vulnerability to future warming

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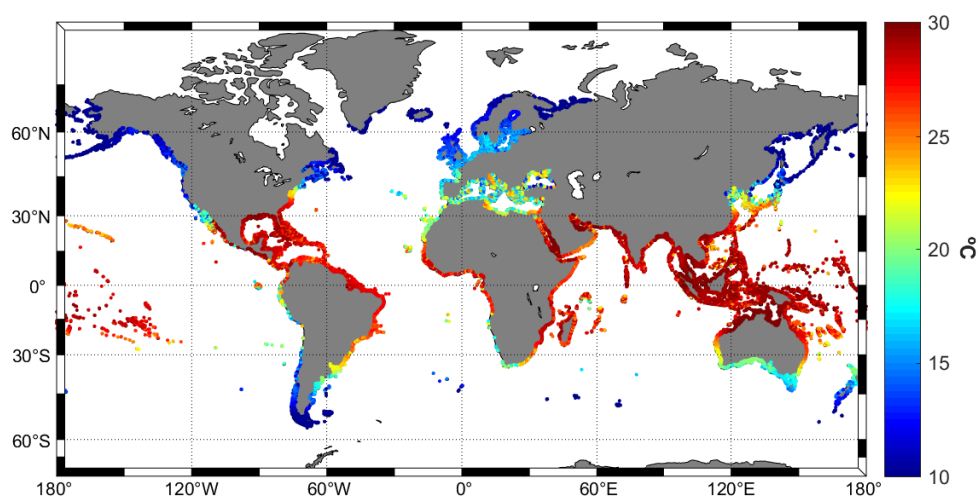
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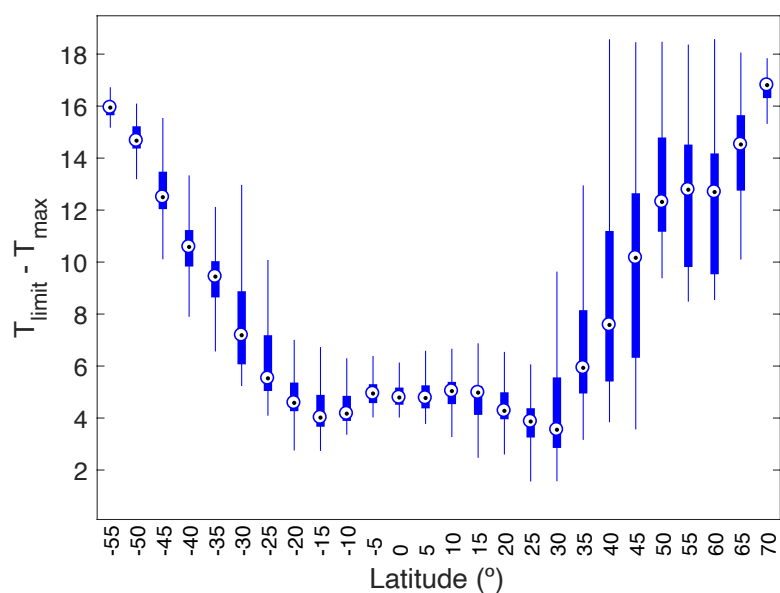
*** Correspondence:**

Núria Marbà

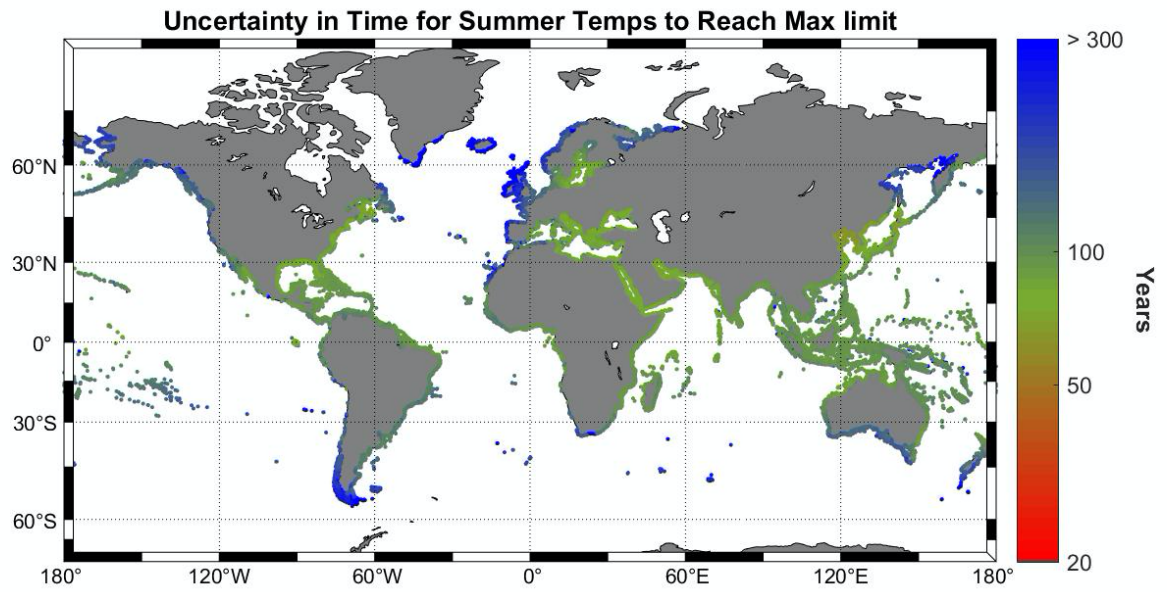
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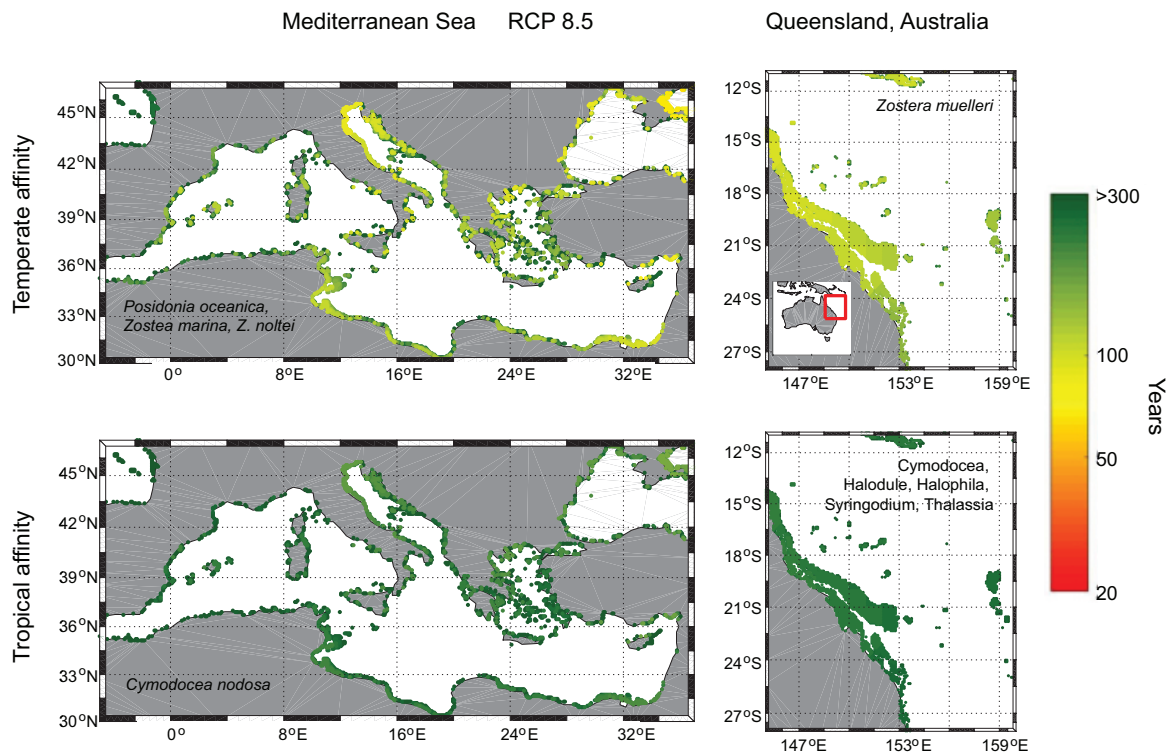
Supplementary Figure 1. Current mean maximum summer temperature (average $\overline{T_{max}}$ for the period 1980-2005) across potential seagrass distribution.



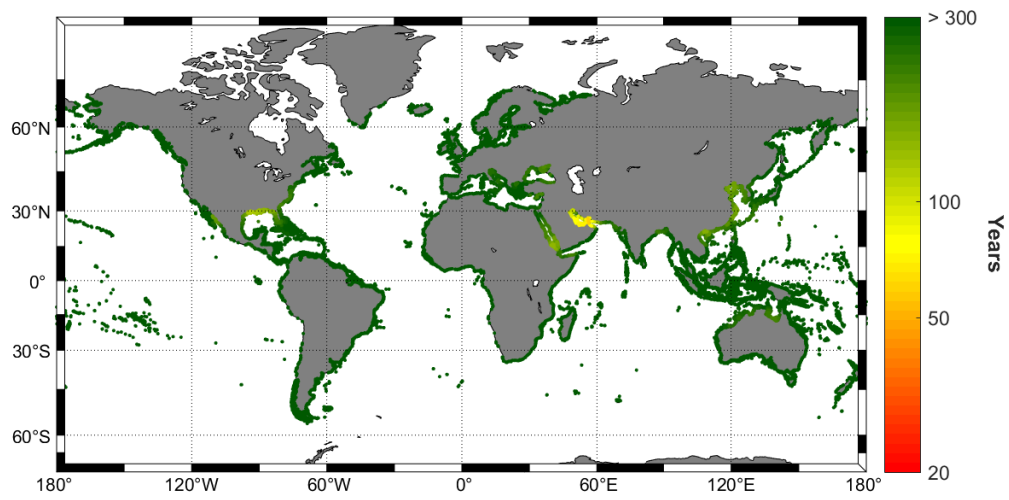
Supplementary Figure 2. Difference between current mean maximum summer temperature ($\overline{T_{max}}$) and the T_{limit} as a function of latitude. Negative and positive latitude values for southern and northern hemispheres, respectively.



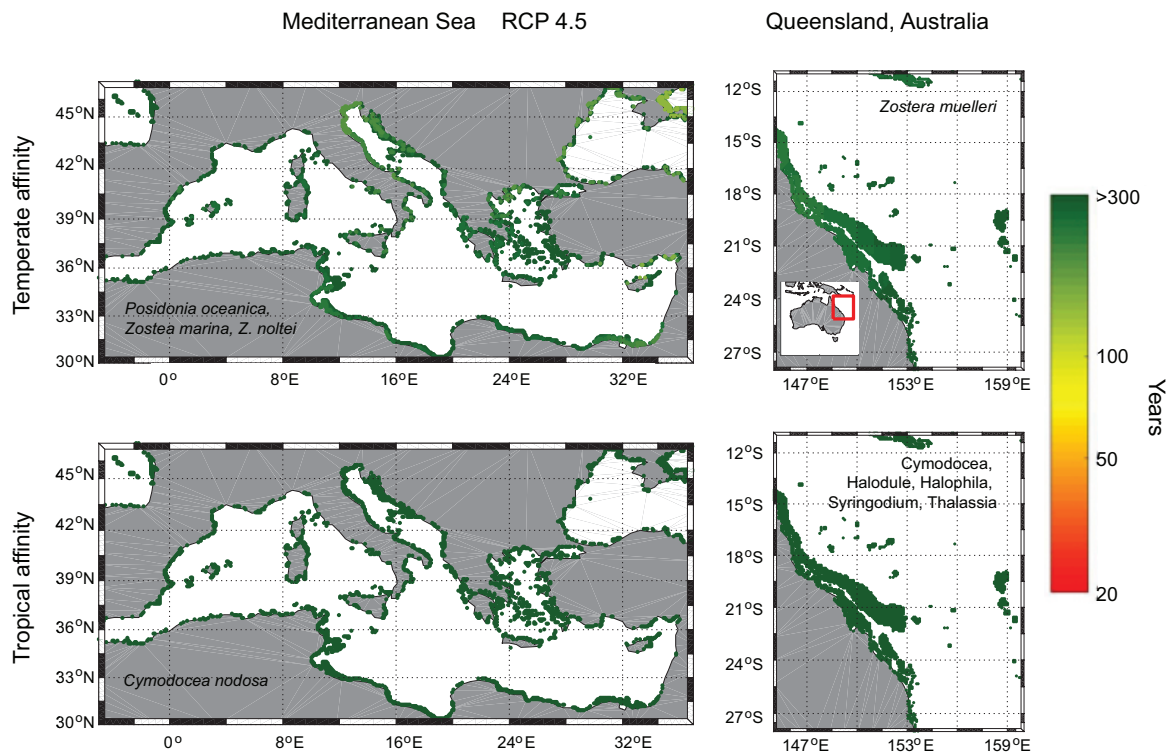
Supplementary Figure 3. Uncertainty associated to the time (in years) for mean maximum summer temperature to reach seagrass upper thermal limit (T_{lim}) at the warming rates projected under the RCP8.5 scenario around potential seagrass sites.



Supplementary Figure 4. Time (in years) for mean maximum summer temperature to reach the upper thermal limits (T_{lim}) of temperate and tropical affinity seagrass flora at the warming rates projected under the RCP8.5 scenario around potential seagrass sites in the Mediterranean Sea and Queensland (Australia) coastal areas.



Supplementary Figure 5. The time (in years) to reach T_{limit} at the warming rates predicted under the RCP4.5 scenario around potential seagrass sites.



Supplementary Figure 6. Time (in years) for mean maximum summer temperature to reach the upper thermal limits (T_{lim}) of temperate and tropical affinity seagrass flora at the warming rates projected under the RCP4.5 scenario around potential seagrass sites in the Mediterranean Sea and Queensland (Australia) coastal areas.