



EUROMARINE

EUROPEAN
MARINE RESEARCH
NETWORK

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From sink to source: Tipping points of blue carbon storage in Mediterranean seagrass ecosystems (BlueTipS)

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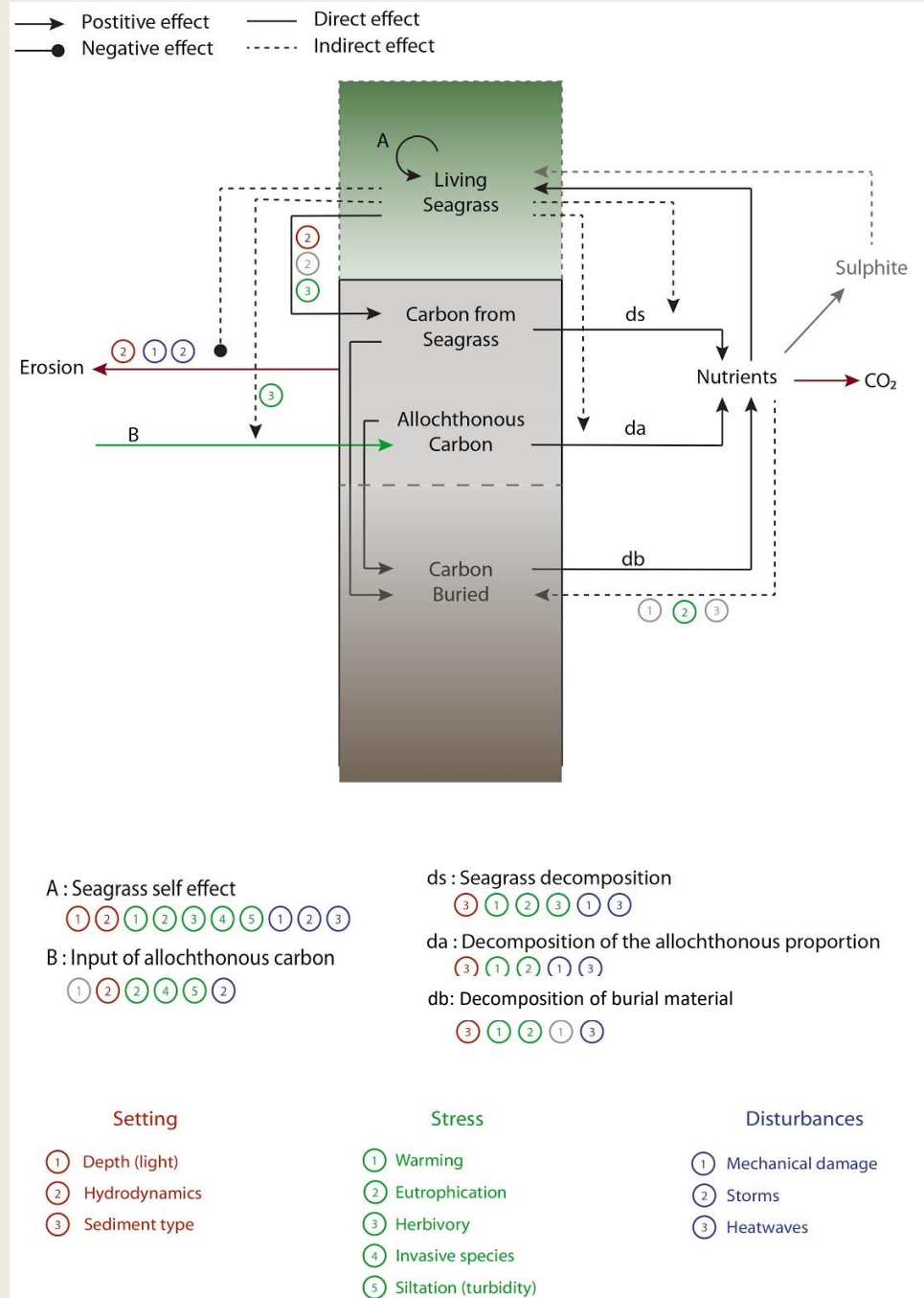
Posidonia oceanica

- exceptional carbon sinks
- seagrass loss may convert meadows from sinks to sources of CO₂



Objectives

- tipping point perspective in the ecosystem functioning of *P. oceanica* meadows across the Mediterranean basin [SEP]
- modeling framework for studying coupled seagrass-carbon storage dynamics in Mediterranean ecosystems
- design experimental work to assess the risk of collapse in seagrass meadows



Outcomes

- Perspective manuscript
 - Develop a mathematical model that links seagrass degradation to ecosystem functioning in terms of carbon sequestration and release of CO₂
 - In preparation, to be submitted within 2020
- Project proposal
 - BiodivERsA Call 2019-2020 on “Biodiversity and Climate Change”
 - Aim: to identify how interactions between seagrass diversity and climate stressors affect carbon fluxes in seagrass meadows of European Seas (Mediterranean, Baltic)
 - preproposal submitted Nov 2019, full proposal Apr 2020



Thank
you

