

Ecosphere

Quantifying the direct and indirect relationships linking the environment, seagrass, and their associated fauna

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Appendix S1

Table S1 - Information on variables used for the study

Variable	Unite	Source	Resolution	Reference
Seagrass density	number of shoot.m-2	REBENT	-	-
Aboveground biomass	g.m-2	REBENT	-	-
Belowground biomass	g.m-2	REBENT	-	-
Drifting macroalgae biomass	g.m-2	REBENT	-	-
Epiphyte biomass	g.m-2	REBENT	-	-
Fauna abundance	number of individuals	REBENT	-	-
Daily mean current velocity	m.s-1	E.U. Copernicus Marine Service platform. Ocean physic Multi-Year product IBI_REANALYSIS_PHYS_005_002	~ 6-9 km	Sotillo et al., 2015
Daily mean sea water bottom temperature	°C	E.U. Copernicus Marine Service platform. Ocean physic Multi-Year product IBI_REANALYSIS_PHYS_005_002	~ 6-9 km	Sotillo et al., 2016
Daily mean salinity	psu	E.U. Copernicus Marine Service platform. Ocean physic Multi-Year product IBI_REANALYSIS_PHYS_005_002	~ 6-9 km	Sotillo et al., 2017

Fetch	km	GIS layer OpenStreetMap : https://www.openstreetmap.fr/	-	Seers, 2018
Wind velocity	m.s-1	SIM2 model of Météo-France	8km	Le Moigne et al., 2020
Daily mean air temperature	°C	SIM2 model of Météo-France	8km	Le Moigne et al., 2021
Daily air temperature range	°C	SIM2 model of Météo-France	8km	Le Moigne et al., 2022
Trask	-	REBENT	-	-
Gravel	%	REBENT	-	-
Mud	%	REBENT	-	-
Organic matter content	%	REBENT	-	-

References:

Le Moigne, P., Besson, F., Martin, E., Boé, J., Boone, A., Decharme, B., Etchevers, P., Faroux, S., Habets, F., Lafaysse, M., Leroux, D., Rousset-Regimbeau, F., 2020. The latest improvements with SURFEX v8.0 of the Safran–Isba–Modcou hydrometeorological model for France. *Geosci. Model Dev.* 13, 3925–3946. <https://doi.org/10.5194/gmd-13-3925-2020>

Seers, B., 2018. fetchR: calculate wind fetch. R package version 2.1-1.

Sotillo, M.G., Chanut, J., Cailleau, S., 2015. PRODUCT USER MANUAL for Atlantic— Iberian Biscay Irish—Ocean Physics Analysis and Forecast Product: IBI_ANALYSIS_FORECAST_PHYS_005_001_b. Copernic. Environ. Monit. Serv.