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Correspondence: NAME (EMAIL)

Abstract. TEXT

Copyright statement. TEXT

1 Introduction

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2.1.1 HEADING

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3 Conclusions

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4 Code availability

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15    **5    Data availability**

TEXT

**6    Code and data availability**

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*Sample availability.* TEXT

20    *Video supplement.* TEXT

**Appendix A**

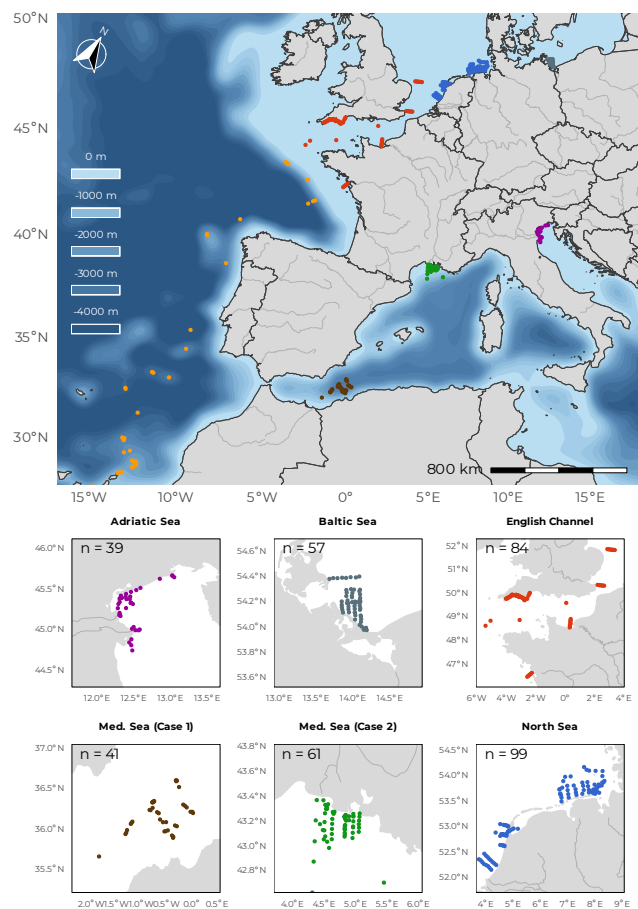
**A1**

*Author contributions.* TEXT

*Competing interests.* TEXT

25    *Disclaimer.* TEXT

*Acknowledgements.* TEXT

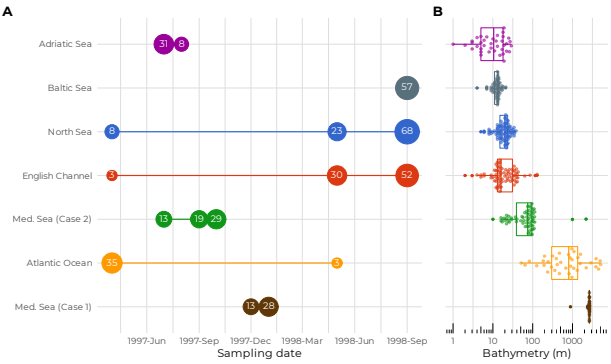


**Figure 11.** My caption

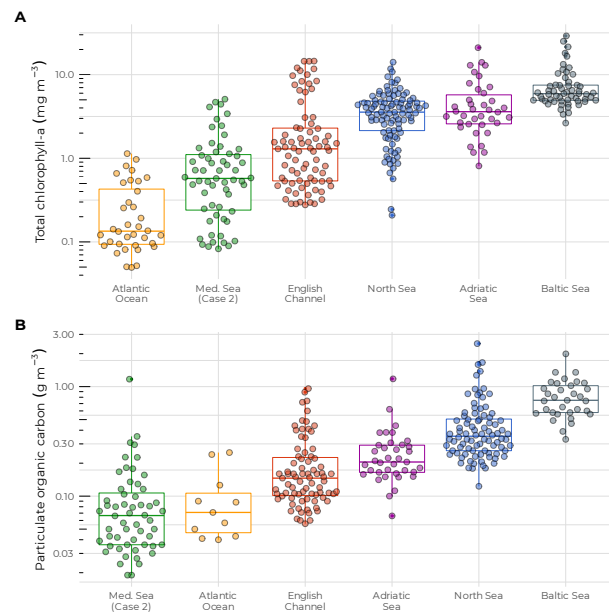
## References

REFERENCE 1

REFERENCE 2



**Figure 12.** My caption



**Figure 13.** My caption

source_file	Variable	Units	PI	Description
absorption	wavelength	nm	M. Babin	TBD
absorption	a_p_m1	m <sup>-1</sup>	TBD	Total particulate absorption
absorption	a_nap_m1	m <sup>-1</sup>	TBD	Non-algal absorption
absorption	a_phy_m1	m <sup>-1</sup>	TBD	Phytoplankton absorption
absorption	a_phy_specific_m2_mg_chla_m1	m <sup>2</sup> mg chla <sup>-1</sup>	TBD	Specific phytoplankton absorption
absorption	a_cdom_measured_m1	m <sup>-1</sup>	TBD	Measured chromophoric dissolved organic matter
absorption	a_cdom_modeled_m1	m <sup>-1</sup>	TBD	Modeled chromophoric dissolved organic matter
ac9	a_m1	m <sup>-1</sup>	TBD	Particulate absorption
ac9	c_m1	m <sup>-1</sup>	TBD	Beam attenuation
ac9	bp_m1	m <sup>-1</sup>	TBD	Particulate scattering
bathymetry	longitude	degree decimal	TBD	Longitude of the pixel used to extract the bathymetry
bathymetry	latitude	degree decimal	TBD	Latitude of the pixel used to extract the bathymetry
bathymetry	bathymetry_m	m	TBD	Bathymetry depth at the sampled stations
irradiance	eu_w_m2_um	w m <sup>-2</sup> μm <sup>-1</sup>	TBD	Upward irradiance just beneath the water surface
irradiance	ed_w_m2_um	w m <sup>-2</sup> μm <sup>-1</sup>	TBD	Downward irradiance just beneath the water surface
irradiance	k_eu_m1	m <sup>-1</sup>	TBD	Attenuation coefficient for upward irradiance (Kd)
irradiance	k_ed_m1	m <sup>-1</sup>	TBD	Attenuation coefficient for downward irradiance (Kd)
reflectance	measured_reflectance_percent	%	TBD	Surface water reflectance
spectral_slopes	s_cdom_nm1	nm <sup>-1</sup>	TBD	Spectral slope that describes the approximate exponential decrease in absorption with wavelength
spectral_slopes	s_nap_nm1	nm <sup>-1</sup>	TBD	Spectral slope that describes the approximate exponential decrease in non-algal absorption with wavelength
stations	station	NA	TBD	Unique ID of the sampled station. Can be used to find the station name
stations	date	NA	TBD	Date at which the measurement was made
stations	depth_m	m	TBD	Depth at which the measurement was made
stations	longitude	degree decimal	TBD	Longitude of the sampling station
stations	latitude	degree decimal	TBD	Latitude of the sampling station
stations	area	NA	TBD	Region where the measurement was made. One of the following: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100
stations	system	NA	TBD	TBD
stations	gmt_time	NA	TBD	TBD
stations	solar_zenith_angle	degree	TBD	Angle of the sun from the vertical
pigments	chlorophyll_a_mg_m3	mg m <sup>-3</sup>	TBD	Chlorophyll-a
pigments	chlorophyll_b_mg_m3	mg m <sup>-3</sup>	TBD	Chlorophyll-b
pigments	chlorophyll_c_mg_m3	mg m <sup>-3</sup>	TBD	Chlorophyll-c

pigments	pheopigment_mg_m3	mg m <sup>-3</sup>	TBD	Pheopigment
pigments	fucoxanthin_mg_m3	mg m <sup>-3</sup>	TBD	Fucoxanthin
pigments	hexanoyloxyfucoxanthin_19_mg_m3	mg m <sup>-3</sup>	TBD	Hexanoyloxyfucoxanthin_19
pigments	butanoyloxyfucoxanthin_19_mg_m3	mg m <sup>-3</sup>	TBD	Butanoyloxyfucoxanthin_19
pigments	alloxanthin_mg_m3	mg m <sup>-3</sup>	TBD	Alloxanthin
pigments	zeaxanthin_mg_m3	mg m <sup>-3</sup>	TBD	Zeaxanthin
pigments	prasixanthin_mg_m3	mg m <sup>-3</sup>	TBD	Prasixanthin
pigments	neoxanthin_mg_m3	mg m <sup>-3</sup>	TBD	Neoxanthin
pigments	violaxanthin_mg_m3	mg m <sup>-3</sup>	TBD	Violaxanthin
pigments	diatoxanthin_mg_m3	mg m <sup>-3</sup>	TBD	Diatoxanthin
pigments	diadinoxanthin_mg_m3	mg m <sup>-3</sup>	TBD	Diadinoxanthin
pigments	peridinin_mg_m3	mg m <sup>-3</sup>	TBD	Peridinin
pigments	carotene_mg_m3	mg m <sup>-3</sup>	TBD	Carotene
pigments	lutein_mg_m3	mg m <sup>-3</sup>	TBD	Lutein
nutrients	suspended_particulate_matter_g_m3	g m <sup>-3</sup>	TBD	Suspended particulate matter
nutrients	particulate_organic_nitrogen_g_m3	g m <sup>-3</sup>	TBD	Particulate organic nitrogen
nutrients	total_particulate_carbon_g_m3	g m <sup>-3</sup>	TBD	Total particulate carbon
nutrients	particulate_organic_carbon_g_m3	g m <sup>-3</sup>	TBD	Particulate organic carbon
nutrients	dissolved_organic_carbon_g_m3	g m <sup>-3</sup>	TBD	Dissolved organic carbon
radiometry	TODO	TODO	TBD	TODO

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