



Supplement of

Ocean change in the northeastern Atlantic and adjacent seas: a multi-dimensional challenge for the environment, society, and economy

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Product Table: Ocean change in the northeastern Atlantic and adjacent seas: A multi-dimensional challenge for the environment, society, and economy

Product ref. No.	Product ID and type	Data access	Documentation
1	Global Large Marine Ecosystems, geodata	Large Marine Ecosystem Portal (2020)	Sherman et al. (2004)
2	SST_GLO_SST_L4_REP_OBSERVATIONS_010_011 (OSTIA), satellite observations	EU Copernicus Marine Service Product (2023a)	Quality Information Document (QUID): Worsfold et al. (2023) Product User Manual (PUM): Worsfold et al. (2022)
3	SST_GLO_SST_L4_NRT_OBSERVATIONS_010_001 (OSTIA-NRT), satellite observations	EU Copernicus Marine Service Product (2023b)	QUID: Briand et al. (2023) PUM: Martin et al. (2023)
4	Optimum Interpolation Sea Surface Temperature (OISST), satellite observations	Huang et al. (2020)	Banzon et al. (2016)
5	SST_GLO_SST_L4_REP_OBSERVATIONS_010_024 (ESA-CCI), satellite observations	EU Copernicus Marine Service Product (2021)	QUID: Good (2021) PUM : Good (2022)
6	INSITU_GLO_PHY_TS_OA_MY_013_052 (CORA gridded), in-situ observations	EU Copernicus Marine Service Product (2024a)	QUID: Szekely (2024a) PUM: Szekely (2024b)
7	INSITU_GLO_PHY_TS_OA_NRT_013_002, in-situ observations	EU Copernicus Marine Service Product (2024b)	QUID: Szekely and Dobler (2024) PUM: Szekely (2024c)
8	EN.4.2.2.c14, in-situ observations	(Met Office Hadley Centre observations datasets, 2025)	(Good et al., 2013; Cheng et al., 2014; Gouretski and Cheng, 2020)
9	Institute of Atmospheric Physics (IAP) ocean subsurface temperature, in-situ observations	(Ocean and Climate, 2025)	(Cheng and Zhu, 2016; Cheng et al., 2017; Cheng et al., 2024)
10	NOAA/NESDIS/NCEI Ocean Climate Laboratory, temperature anomaly fields, in-situ observations	(Global Ocean Heat and Salt Content - Temperature Monthly Anomaly	(Levitus et al., 2012)

		Fields (ASCII, netCDF files), 2024)	
11	GLOBAL_OMI_HEALTH_carbon_ph_area_averaged, In-situ observations	EU Copernicus Marine Service Product (2024c)	QUID: Chau et al. (2024a) PUM: Chau et al. (2023a)
12	MULTIOBS_GLO_BIO_CARBON_SURFACE_MYNRT_015_008, in-situ observations	EU Copernicus Marine Service (2024d)	QUID: Chau et al. (2024b) PUM: Chevallier et al. (2024)
13	OMI_CLIMATE_SL_EUROPE_area_averaged_anomalies satellite observations	EU Copernicus Marine Service Product (2024e)	QUID : Veillard et al. (2024a) PUM : Pujol et al. (2024a)
14	OMI_CLIMATE_SL_GLOBAL_area_averaged_anomalies satellite observations	EU Copernicus Marine Service Product (2024f)	QUID : Veillard et al. (2024b) PUM : Pujol et al. (2024b)
15	GLOBAL_MULTIYEAR_PHY_001_030 (GLO12), numerical models	EU Copernicus Marine Service (2023c)	QUID: Dré villon et al. (2023) PUM: Dré villon et al. (2024)
16	GLOBAL_ANALYSISFORECAST_PHY_001_024 (GLORYS12), numerical models	EU Copernicus Marine Service (2024g)	QUID: Lellouche et al. (2024) PUM: Le Galloudec et al. (2024)
17	Eurostat Aquaculture production in Tonne Live Weight (and value by NUTS 0 = country), fish_aq2a	Eurostat (2025a) Eurostat (2024a)	Eurostat (2024b) European Commission, Eurostat (2024)
18	GLOBAL_OMI_HEALTH_carbon_ph_trend, In-situ observations	EU Copernicus Marine Service Product (2024h)	QUID: Chau et al. (2024c) PUM: Chau et al. (2023b)
19	Boundaries of UNESCO World Heritage Marine Sites, geodata	UNESCO (2023)	UNESCO (2023)
20	Persistent MHW, numerical models, in-situ observations, satellite observations	Mignot et al., (2022)	Mignot et al., (2022)
21	Employment coastal tourism	European Atlas of the Seas (2025)	European Atlas of the Seas (2025)

22	EMODnet_HA_Aquaculture_Shellfish_20220225	AND-International (2014)	AND-International (2014)
23	WCMC_013_014_SeagrassesPt_v7_1	UNEP-WCMC, Short FT (2021)	UNEP-WCMC, Short FT (2021)
24	Global Distribution of Cold-Water Corals, WCMC001_ColdCorals2017_Pt_v5	UNEP-WCMC (2025)	Freiwald et al., (2021)
25	Population density by NUTS 3 region, demo_r_d3dens	Eurostat (2025b) Eurostat (2024a)	Eurostat (2025c) European Commission, Eurostat (2024)
26	OMI_CLIMATE_SL_GLOBA L_regional_trends, satellite observations	EU Copernicus Marine Service Product (2024i)	QUID : Veillard et al. (2024c) PUM : Pujol et al. (2024c)
27	Location of coastal sites from the UNESCO World Heritage Convention list, EMODnet_HA_Heritage_UNESCO_WHL_20240618, geodata	EMODnet (2024)	EMODnet (2024)
28	SST_GLO_PHY_L4_NRT_010_043 (ODYSSEA-NRT), satellite observations	EU Copernicus Marine Service Product (2023d)	QUID: Piollé and Autret (2023) PUM: Piollé et al. (2023)
29	SST_GLO_PHY_L4_MY_010_044 (ODYSSEA-REP), satellite observations	EU Copernicus Marine Service Product (2024j)	QUID: Autret and Piollé (2024) PUM: Autret et al. (2024)

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