



*Supplement of*

## **The Mediterranean Forecasting System – Part 1: Evolution and performance**

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Data and codes supporting manuscript titled "The Mediterranean Forecasting System – Part 1: Evolution and performance " submitted to Ocean Science

N.	File name	Description
1	Bathy	<p>Input file related to the bathymetry of the study (for MED-PHY and Med-BIO). Name: Bathy.nc DOI: <a href="https://doi.org/10.5281/zenodo.10000962">https://doi.org/10.5281/zenodo.10000962</a></p> <p>Input file related to bathymetry of Med-waves system Name: topocat.dat DOI: <a href="https://doi.org/10.5281/zenodo.10021781">https://doi.org/10.5281/zenodo.10021781</a></p>
2	PHY_NEMO_namelist	<p>Namelist of Nemo model code for the PHY component of the MED-PHY. Code available at: <a href="https://github.com/CMCC-Foundation/MedFS-Physics/blob/eas5-v1.0/CONFIG/MED24/EXP00/namelist_1">https://github.com/CMCC-Foundation/MedFS-Physics/blob/eas5-v1.0/CONFIG/MED24/EXP00/namelist_1</a></p>
3	PHY_NEMO_CODE	<p>Nemo and WW3 codes for the coupled model are available in a github repository linked to Zenodo: Nemo DOI: <a href="https://doi.org/10.5281/zenodo.10004575">https://doi.org/10.5281/zenodo.10004575</a> WW3 DOI: <a href="https://doi.org/10.5281/zenodo.10004591">https://doi.org/10.5281/zenodo.10004591</a></p>
5	PHY validation tools	DOI: <a href="https://doi.org/10.5281/zenodo.10018181">https://doi.org/10.5281/zenodo.10018181</a>
6	PHY Data Assimilation	DOI: <a href="https://doi.org/10.5281/zenodo.10004556">https://doi.org/10.5281/zenodo.10004556</a>
7	PHY Validation Dataset	DOI: <a href="https://doi.org/10.5281/zenodo.10018105">https://doi.org/10.5281/zenodo.10018105</a>
8	Med-WAV code	<p>Med-WAV used WAM 4.5.4 freely available code which can be found at <a href="https://github.com/mywave/wave">https://github.com/mywave/wave</a> or at <a href="https://github.com/mywave/WAM">https://github.com/mywave/WAM</a> but using the WAM 4.5.4 physics option.</p>
9	Datasets for validation of MED-WAV	<p>Med-WAV validation has been conducted using E.U. Copernicus Marine Service Information: -<a href="https://doi.org/10.48670/moi-00036">https://doi.org/10.48670/moi-00036</a> -<a href="https://doi.org/10.48670/moi-00176">https://doi.org/10.48670/moi-00176</a> -Korres, G., Oikonomou, C., Denaxa, D., &amp; Sotiropoulou, M. (2022). Mediterranean Sea Waves Analysis and Forecast (CMEMS MED-Waves, MEDWAM4 system) (Version 1) Data set. Copernicus Monitoring Environment Marine Service (CMEMS). <a href="https://doi.org/10.25423/cmcc/medsea_analysisforecast_wav_006_017_medwam4">https://doi.org/10.25423/cmcc/medsea_analysisforecast_wav_006_017_medwam4</a></p>
10	Datasets for validation of MED-WAV	Oikonomou, C., Korres, G., Ravdas, M., & Zacharioudaki, A. (2023). Collocated model and observation datasets for the validation of the

		Copernicus Mediterranean Sea Waves Analysis and Forecast for the period 2018-2020. [Data set]. Zenodo. <a href="https://doi.org/10.5281/zenodo.8382664">https://doi.org/10.5281/zenodo.8382664</a>
11	Datasets for validation of MED-BGC	Bolzon G., Cossarini G., Teruzzi A., Feudale L., & Salon S. (2023). Observational datasets for validation of Mediterranean Biogeochemical Copernicus Modelling System, period 2018-2020 [Data set]. Zenodo. <a href="https://doi.org/10.5281/zenodo.8338002">https://doi.org/10.5281/zenodo.8338002</a>
12	OGSTM transport model code	Bolzon G., Lazzari P., Salon S., Teruzzi A., Coidessa G., & Cossarini G. (2023). ogstm (4.1). Zenodo. <a href="https://doi.org/10.5281/zenodo.8283447">https://doi.org/10.5281/zenodo.8283447</a>
13	3DVarBio assimilation code	Teruzzi A., Bolzon G., & Cossarini G. (2023). 3DVarBio (3.3). Zenodo. <a href="https://doi.org/10.5281/zenodo.8283275">https://doi.org/10.5281/zenodo.8283275</a>
14	BFM biogeochemical model code	Lazzari P., Bolzon G., Salon S., Teruzzi A., Di Biagio V., Amadio C., Alvarez E., & Cossarini G. (2023). BFM (5.0). Zenodo. <a href="https://doi.org/10.5281/zenodo.8283629">https://doi.org/10.5281/zenodo.8283629</a>
15	Bit.sea validation tool code for BGC	Bolzon G., Teruzzi A., Salon S., Di Biagio V., Feudale F., Amadio C., Coidessa G., & Cossarini G. (2023). bit.sea (1.7). Zenodo. <a href="https://doi.org/10.5281/zenodo.8283692">https://doi.org/10.5281/zenodo.8283692</a>