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Assessment of global wave models

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An assessment study has been performed for two distinct spectral wave models: the European model WAM (Cycle 4.6.2) and the American model WAWEWATCH III (WW3 version 5.16). *
*Although WAM and WW3 are different in the model grid and the physics, wave hindcasts have been generated considering similar configuration in terms of: a) irregular grid with 0.25 degree resolution at the equator; b) geographical coverage (global scale from 80S to 89N) c) wave spectrum discretization (30 frequencies and 24 directions); d) atmospheric 10-meter winds and sea-ice cover from 2 distinct dataset: ERA5 (3-hourly winds) and the analysis of the ECMWF high resolution forecast system (6-hourly winds). Gridded outputs (3-hourly) of the wave hindcasts have been assessed by means of CMEMS products such as: the global wave analysis and forecast system (MFWAM), the in-situ near real time observations (moorings) and near real time satellite measurements. Data from the ocean waves ERA5 reanalysis are also considered for the assessment. Results of this work will be presented.