



Current limits of a wave climatology in the Mediterranean sea

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Statistical analysis of a 13 years period of ECMWF wave model analysis in the Mediterranean domain at the spatial grid resolution of .25x.25 deg and an analysis of the ERA 40 WAM re-analysis are presented.

Global and seasonal averages are examined as well as distributions and maxima for wind waves in terms of significant wave height, mean wave direction, peak and mean period in all the Mediterranean Sea.

Results are discussed and compared with similar studies already existent in literature and with the observed 15 years of wave climate along all the Italian coast.

Conclusions are presented about the current limits in the knowledge of the wave climate in the central Mediterranean Sea and possible methods are suggested to extend it at least where time series of wave observations are available.

The study has been done in the framework of the Interreg IIIB MEDOCC WERMED Project, aimed to test a weatherrouting system in the Mediterranean Sea.