



ERA5 wave data

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ERA5 is a climate reanalysis dataset, covering the period 1979 to present. ERA5 is being developed through the Copernicus Climate Change Service (C3S). ERA5 data is open access and free to download for all uses, including commercial use. ERA5 is still under development. The definitive release will be done in batches: data covering the period 2010 to present will be released in early 2017, and data covering prior periods back to 1979 will be released later. The data processing for ERA5 is carried out by ECMWF.

All parameters available in ERA-Interim plus some additional ones are also available in ERA5, including all wave data. ERA5 constitutes a substantial improvement with respect to the ERA-interim, with increased resolution and hourly output. 10 ensemble members, and also ensemble mean and spread for all parameters are also being produced. The temporal resolution is 3-hourly, rather than hourly for the deterministic ERA5 product, though. At this moment we do not know yet whether all members will be made available directly, or only on request. Mean and spread should be made available from the outset.

A brief description of the ocean wave component and the corresponding data will be made. A quick validation with in-situ data will also be shown.