



Variability (with time) of sound speed in the Mediterranean Sea

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We explore the spatial and temporal variability of sound speed within the Mediterranean basin for the period between 1945-2002. The analysis is based on hydrographic measurements from the MEDAR/MEDATLAS 2002 historical dataset, where the dataset consists of gridded yearly temperature and salinity fields with a spatial resolution of 0.2 degrees and 25 levels in depth from 0 to 4000 metres. Sound speed computation is based on the MacKenzie algorithm (1981).