



## **Assimilation of meteomarine observation in a coastal forecasting system, with cases study in the North Adriatic Sea**

A. Bruschi

Agency for Environmental Protection and Technical Services of Italy

In this paper we show a post-processing protocol for ECMWF (European Centre for Medium Range Weather Forecasts) WAM (WAVE Model) analysis data. We use measurements from the R.O.N. (Italian national wave measurement network) buoys to correct significant wave height values, often underestimated by the WAM. The aim of this procedure is to obtain a set of boundary condition for the implementation of a coastal numerical model for waves propagation, e.g. SWAN model (Simulating WAVes Nearshore). We compare the outputs of this post-processing procedure with measurement from a buoy near Grado (North Adriatic Sea), during two sea storm periods.