An efficient way to provide meteorological informations in extreme conditions

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Marine operations are frequently influenced by bad weather conditions and sometimes, in particular during oceanic races, skipper and the crew miss or partially use the information associated with expected weather conditions compromising the safety on board.

Critical points in providing weather information are represented by communication problems, language difficulties and poor understanding of atmospheric dynamics by the end user.

Our attention is particularly focused on the amount of data really needed by the end users: long descriptions of synoptic features may cause a partial lack of attention on real important points.

To overcame the communication problems due to difficulties in language understanding, the use of short and pre-defined textual messages is essential in conjunction with an accurate briefing before operations and, when possible, a synthetic but significant use of weather images and graphics focused only on the significant weather phenomena.

Nevertheless, in the present work is shown that in several cases the use of direct models output is not successful but must be associated to and expert supervision, to check the reliability of the evolution also in comparison with observed data. This will highlight the importance of the use of a correct textual bulletin issued by an expert forecaster that results essential in critical situations.