Application and verification of ECMWF products 2012

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1.   Summary of major highlights

A large range of ECMWF products are used in the operational production of the forecasting division at SML. On the medium range timescale, many parameters like temperature or precipitation, included in the public bulletins are often based on ECMWF deterministic and EPS data, available on the ECMWF web site as well as on a French workstation called Synergie.

2.   Use and application of products

2.1   Post-processing of model output

2.1.1   Statistical adaptation

None

2.1.2   Physical adaptation

None

2.1.3   Derived fields

None

2.2   Use of products

Probabilities, anomalies and EFI are used by our forecasting division via the ECMWF web site. Besides these products, probabilistic products (EPS) are used for severe weather detection in order to issue warning-reports for the European MeteoAlarm website and national public bulletins. Deterministic products, such as the ECMWF high-resolution model are used in conjunction with other models, like ARPEGE, ALADIN, AROME in short-range forecasting, for public and aeronautical purposes. For medium range forecasting the EPS is used additionally.

3.   Verification of products

3.1   Objective verification

3.1.1 Direct ECMWF model output (both deterministic and EPS)

None

3.1.2 ECMWF model output compared to other NWP models

None

3.1.3 Post-processed products

None

3.1.4 End products delivered to users

None

3.2   Subjective verification

3.2.1 Subjective scores (including evaluation of confidence indices when available)

None

3.2.2 Synoptic studies

None

4.   References to relevant publications

None