

# Application and Verification of ECMWF products in Luxembourg

## 1. Summary of major highlights

## 2. Use and application of products

Our mainly used products are provided by Météo France therefore we do not produce any statistics or end products based only on ECMWF models. Additionally used ECMWF products are:

### EPS Meteogram

- used for long range forecasts of temperature, precipitation and cloud cover

### • ECMWF 0.5

- used for long range forecasts to get an idea of upper atmospherical evolution

### • ECMWF 2.5

- used for short range forecasts

## 2.2 Use of products

ECMWF products are being used in combination with other models and synoptic observations to estimate the intensity of severe weather (EPS Meteogram, ECMWF 2.5, ...)

## 3. Verification by comparison with other models and observations

### 3.1.1 Comparison with actual precipitation or cloud fields (Satellite/ Radar)

### 3.1.2 Comparison with NWP models from Météo France.

## 3.2 Subjective verification

Every forecaster has an individual experience of using ECMWF models as they are only used in addition to the models of Météo France.

EPS Meteogram: temperature relatively correct, on sunny days with low cloud cover slightly too low

**wind forecast not very useful without wind direction**

total cloud cover would be more precise if it were to be split into three levels (low, medium and high clouds)