

# Application and verification of ECMWF products 2010

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## 1. Summary of major highlights

As a new member of ECMWF, we still use only products that are available online on the website of ECMWF. ECMWF products are widely used by forecasters to make short and medium-range forecasts, monthly and seasonal forecasts and severe weather warnings. We have not made any numerical verification of ECMWF products yet.

## 2. Use and application of products

### 2.1 Post-processing of model output

None for ECMWF products yet.

#### 2.1.1 Statistical adaptation

#### 2.1.2 Physical adaptation

#### 2.1.3 Derived fields

### 2.2 Use of products

We use a wide range of the products, available on the ECMWF website, for example:

1. For short and medium-range forecast:

**Most used:** EPSgrams.

**Daily use:** Deterministic forecast of Cloud cover, Rainfall and MSLP, 2m temperature and 30m winds, z500 and t850, The Extreme forecast index and wind at 200 hPa.

**Occasional use:** Simulated satellite images and Relative humidity and wind.

2. For long range forecast (monthly and seasonal):  
Products of the Ensemble prediction system (seasonal forecast maps and monthly forecast maps).
3. For very short-range and short-range severe weather warnings at the national level:  
The Extreme forecast index and Deterministic forecast.

## 3. Verification of Products

### 3.1 Objective verification

None for ECMWF products yet.

#### 3.1.1 Direct ECMWF model output

#### 3.1.2 ECMWF model output compared to other NWP models used by the HMS

#### 3.1.3 Post processed products

#### 3.1.4 End products delivered to users

### 3.2 Subjective verification

#### 3.2.1 Subjective scores

For Rainfall and MSLP: our experience is that the product more often overestimates the rainfall for the next 3 to 10 days.

For EFI it will be more useful to have a model climate.

#### 3.2.2 Synoptic studies

None with ECMWF products yet.

## 4. References