# Annual WWW Technical Progress Report

## On the Global Data Processing and Forecasting System 2004

## LATVIA

Country: **LATVIA**                                                      Centre: **UMRR** Riga

### 1. Summary of highlights

The "Cooperating State Agreement between the European Organization for the Exploitation of Meteorological  Satellites (EUMETSAT) and the Government of the Republic of Latvia" was signed on July 21, 2004.
The Multimission Earth Observation System "MEOS MSG-XRUS" was installed in Riga in December 2004.

### 2. Equipment in use at the Centre

**MTS** - Messages Switch System for GTS – 2 Servers Acer Altos 930, PII 330 MHz.

**IMS** - Integrate Meteorological System for national observations – 2 Servers Acer Altos 500
PII 500 MHz.

**PSS -** Product Support System for the SMHI/HIRLAM data products - VMS MicroVAX 3400
workstation.

**DWDSAT-** Satellite Receiving System for DWD data and products - P4 2.6 GHz.

**RETIM 2000** - Satellite Receiving System for the raw data and aviation products with the
WEDIS workstation for visualization - P4 2.3 GHz.

**MEOS MSG – XRUS** - Satellite Receiving System for MSG data and products – 2 servers
P4 2.8 GHz.

### 3. Data and products from GTS in use

The daily statistic raw information:

| | | | |
|---|---|---|---|
| SYNOP: | 00/06/12/18 | UTC | 2200 |
| | 03/09/15/21 | UTC | 1100 |
| TEMP: | 00/12 | UTC | 75 |
| | 06/18 | UTC | 30 |

The daily statistic of products:

| | | | |
|---|---|---|---|
| GRIB (EGRR): | 00 | UTC | 750 |
| | 12 | UTC | 500 |
| FAX (EDZV): | 00/06\12\18 | UTC | 5 |

(RUMS): 00\06\12\18 UTC 15

## 4. Data input system

Automated.

## 5. Quality control system

Format and basic consistency are check.

## 6. Monitoring of observing system

Surface and Upper Air observations are monitored on the national level.

## 7. Forecasting system

There are not any own NWP models.

### 7.1. Short range forecasting (0-72 hrs)

For short-range (twice a day) forecasting ECMWF and GME DWD model products are used: surface pressure, 850&500hPa air temperature and geopotential height, 850&700 hPa relative humidity, wind direction and speed (10m), accumulated precipitation.
For the short-range forecasting (0-36hts) are also used subjective synoptic methods of weather forecasting.

### 7.2 Medium range forecasting system (4-7 days – up to 168hrs)

Once a day ECMWF and GME DWD model's products are used: surface pressure, 850&500hPa air temperature and geopotencial height, 850&700 hPa relative humidity.

## 8. Verification of prognostic products

N/A.

## 9. Plans for the future

The main plans are to install the Doppler Weather Radar METEOR 500C; to participate in the Nordic Weather Radar network and replaced the existing Messages Switch System MTS by the new one.