

# Annual WWW Technical Progress Report

## On the Global Data Processing and Forecasting System 2004

### LITHUANIA

Country: Lithuania

Centre: LHMS (Vilnius)

#### 1. Summary of highlights

MSG information reception and processing system 2met! (VCS, Germany) has been installed with Lithuania signing EUMETSAT cooperating state agreement in December.

#### 2. Equipment in use at the centre

TRANSMET MSS, DWDSat system, RETIM2000, BALTMET system for SMHI / HIRLAM data and products, 2met! system for EUMETSAT MSG information, CLIDATA and HYMER databases and also several LINUX servers (FTP, WWW, E-mail). Telecommunication equipment (RMDCN) includes CISCO routers.

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

SYNOP	800
TEMP	2
FAX	80
TIFF	164

#### 4. The data input system

From meteorological and hydrological stations – manually (from 9 automated hydrological stations – automatically).

#### 5. Quality control system

Format and basic consistency checks.

#### 6. Monitoring of the observing system

Surface and upper-air observations are monitored on the national level.

#### 7. Forecasting system

There is no national NWP model in Lithuania. Some DWD GME model products (from +12h to +168h) twice per 24 h and ECMWF products (from +48h to +180 h.) once per 24 h have been received via the DWDSat data receiving system (e. g. surface pressure fields, 850 hPa level temperature, 700 hPa level relative humidity etc., totally 4 – 7 items). Also, some Swedish HIRLAM model products (up to +48h) have been received under the ongoing BALTMET project. These (and some other) data and products are used to originate forecasts from +24h to +120h. Specialized short-range forecasts are originated using METEOSAT-7 and METEOSAT-8 (MSG, since December) data as well as actual synoptic charts by applying methods of empirical assessment of separate meteorological elements and phenomena, adapted to local conditions.

8. Verification of prognostic products

Verification of prognostic products has not been carried out.

9. Plans for the future

To obtain a modern forecaster workstation.

To conclude co-operation agreement with ECMWF.

To implement HIRLAM-based NWP model adapted to Lithuania's territory.