Last Developments of ALADIN Operational Environment at the IMWM

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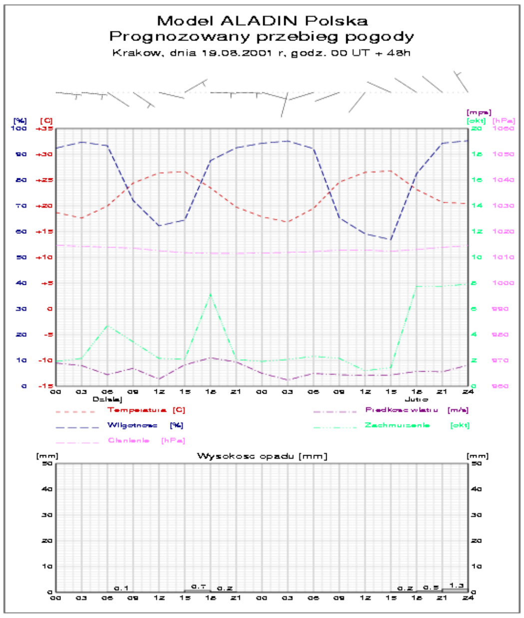
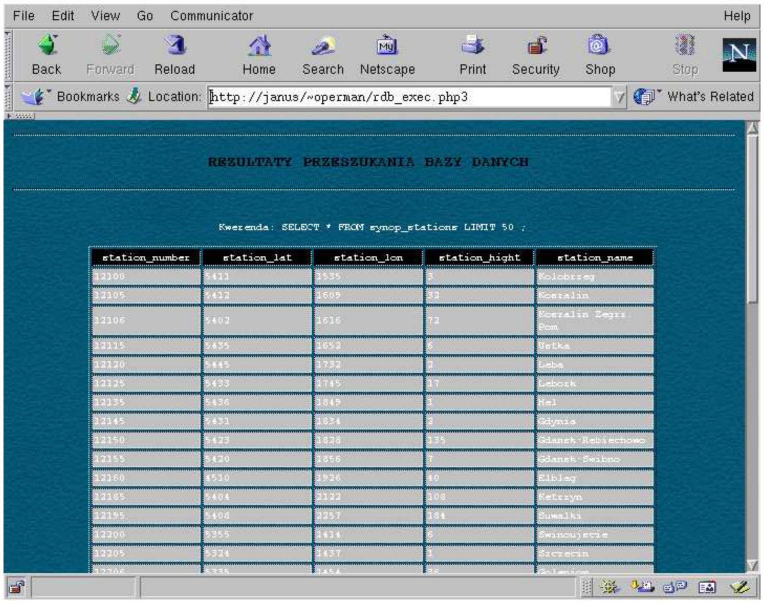
In 1999 in Cracow, in the Institute of Meteorology and Water Management efforts were focused on developing of ALADIN operational production system, operational verification system also NWP data and products dissemination software. Among achievements are:

- Operational production system
  1. archiving of ALADIN files at Cyfronet HSM system - there is a Hierarchical Storage Management System available since several months at Cracow Supercomputer Center; the system consist of HP D350 server, two tape libraries - ATL 2640 and ATL 7100 - and one magneto-optical disk library - HP 660ex; it is actually capable of 18 TB storage; since 10th of April ALADIN coupling and ICM* files, in sum approximately 300 MB for model run, are being archived
- Operational verification system
  1. presentation of verification data for every polish synoptic station is added - with CGI/Perl software verification diagrams production on-fly and presentation is now available
- Operational NWP products dissemination
  1. preliminary version of WWW access to RDBMS is developed - the WWW software make possible access to PostgreSQL database with observational and prediction data; usage of SQL language enable reaching great flexibility of the tool
  2. meteograms presentation in IMWM Intranet is added - meteograms are being prepared for all polish synoptic stations and some others; they comprise prediction diagrams for wind, temperature, pressure, humidity, cloudiness and precipitation fields
  3. some other new WWW pages in IMWM Intranet are added - among them presentation of prediction data for polish synoptic stations, WWW system for qualified forecast preparation based on ALADIN predictions and also preparation of some weather charts for media

Meteogram - example of outprint



WWW access to RDBMS - result of a query processing



REZULTATY PRZESZUKANIA BAZY DANYCH

Kwerenda: SELECT * FROM synop_stations LIMIT 50 ;

station_number	station_lat	station_lon	station_hight	station_name
12100	5411	1535	3	Kolobrzeg
12105	5412	1609	32	Koszalin
12106	5402	1616	72	Koszalin Zegrz. Pom
12115	5435	1653	6	Ustka
12120	5445	1732	2	Leba
12125	5433	1745	17	Lebork
12135	5436	1849	1	Hel
12145	5431	1834	2	Gdynia
12150	5423	1828	135	Gdansk-Rebiechowo
12155	5420	1856	7	Gdansk-Swibno
12160	5510	1926	40	Elblag
12185	5404	2122	108	Ketrzyn
12195	5408	2257	184	Suwalki
12200	5355	1414	6	Swinoujscie
12205	5324	1437	1	Szczecin