Modernization of Hydromet Services
Issues and Opportunities

Nino Radetić
radetic@cirus.dhz.hr

Meteorological and Hydrological Service of Croatia
Zagreb, Grič 3

World Bank Workshop, Vienna, April 2005
Facts in brief

- Headquaters in Zagreb
- Marine Meteorological Center in Split
- 150 years of observations
- 440 employees
- 40 main meteorological stations
- 145 main hydrological stations
- Yearly budget about 7 M€
- 30% own income
- 0.03% of state budget
Our advantages

- Well skilled forecasters (ALADIN/HR)
- Qualified personnel in Limited Area Modeling (operational and research)
International cooperation

- Member of ALADIN LACE
- Leading in ALADIN LACE group
- Bilateral agreements in data exchange with neighboring countries
- Associate member of ECMWF EUMETSAT with standard obligations to WMO, ECMWF, EUMETSAT, LACE, ALADIN, OPERA

- EMEP in Zagreb (April 2005)
- ICAM/MAP conference in Zadar (May 2005)
- EUMETSAT conference in Dubrovnik (September 2005)
Nobody ‘s perfect ...

- Non-complete warning system (dangerous weather phenomena, civilization and natural catastrophes)
- Insufficient IT capacities for LAM modelling for such system
- No data on Adriatic Sea
- No data from mountainous regions
- No weather radars on Adriatic coast
- Non-adequate radar composite with present radars (inland)
Goals and issues

- Establishing radar network on eastern Adriatic coast together with lightning detection network, thus covering Bosnia and Herzegovina and forming network with radars and lightning sensors on Italian Adriatic coast!

- Remote location stations
Why?

intense air traffic along the coast
Rapidly increasing number of nautical tourists
Radar network

WSR-74S
DWSR-88S
DWSR-74S

new

DHMZ

Nino Radetić
Meteorological and hydrological service of Croatia

radetic @ cirius.dhz.hr

April 2005.
Lightning detection network

sensor locations
Lightning detection network
Remote locations

Establishing sophisticated automatic weather station on islet of Palagruža with DCP
Remote locations

Establishing observatory on main meteorological station Zavižan (1600 m)
Warning system

Establishing warning system for dangerous weather phenomena, natural and civil catastrophes