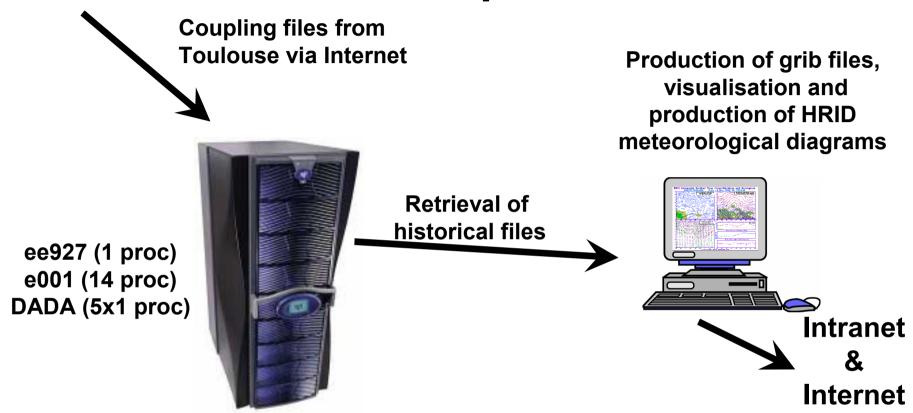


## The ALADIN Croatia operational flowchart



#### **SGI ORIGIN 3400**

16 x 400 MHz IP35 Processors Main memory size: 12288 Mbytes OS IRIX 6.5 **HP KAYAK i686** 

2 x 800 MHz Processors
Main memory size: 2 x 128 Mbytes
OS Red Hat LINUX 6.2 Kernel 2.2.16

## **Domains and Orography**

#### **LACE** domain

- -resolution 12.2 km,
- -229x205 grid points (240x216 Extension zone),
- -37 vertical η-levels, time-step 514 sec,
- -corners: SW (34.00,2.18), NE (55.62,39.08).

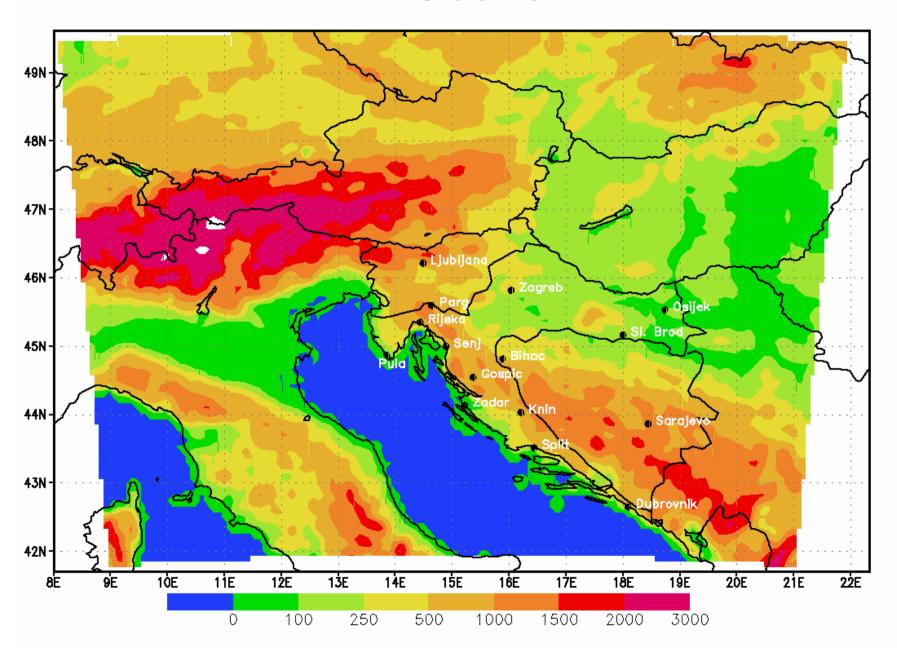
#### **HRv8** domain

- -resolution 8 km,
- -127x109 grid points (144x120 Extension zone),
- -37 vertical η-levels, time-step 327 sec,
- -corners: SW (41.79,8.93), NE (49.53,21.98).

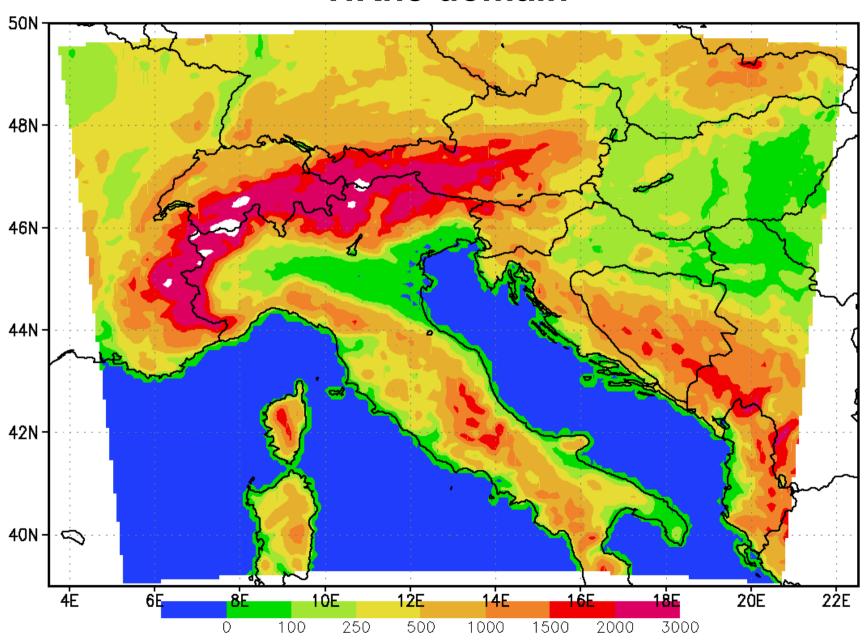
#### **Dynamical adaptations domains**

- -resolution 2 km,
- -72x72 grid points (80x80 Extension zone),
- -15 vertical η-levels, time-step 60 sec,
- -5 domains Senj, Karlovac, Maslenica, Split and Dubrovnik.

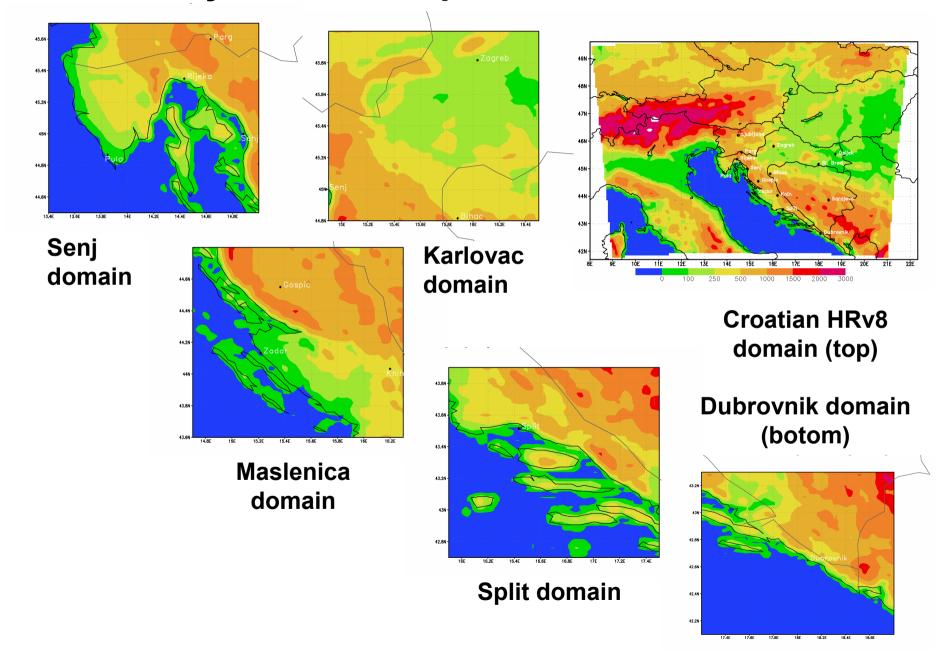
#### **HRv8** domain



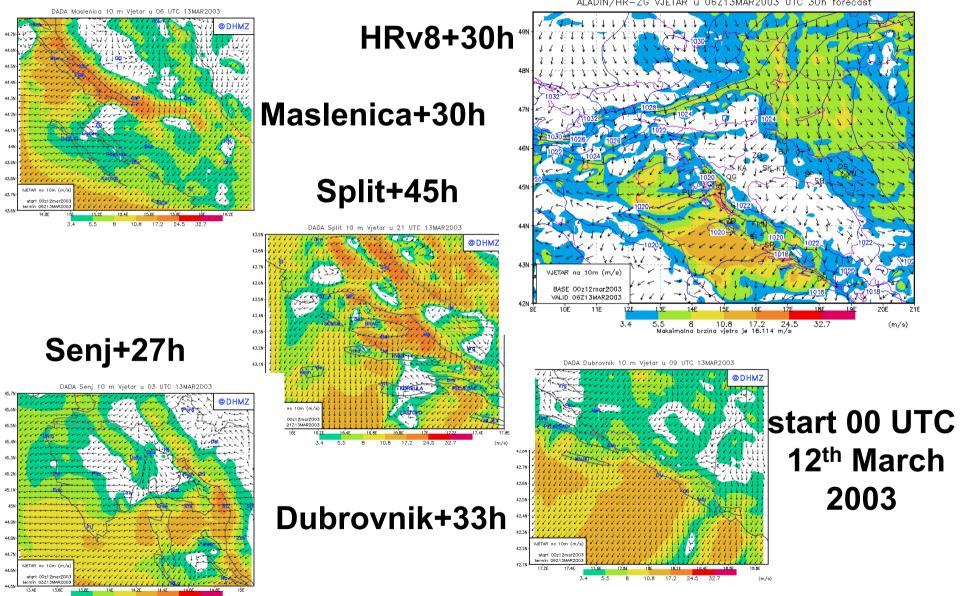
#### **HRn8** domain



### **Dynamical adaptation domains**

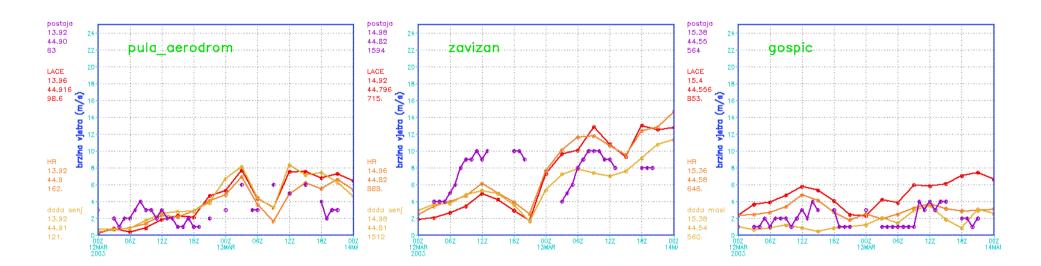


# The surface wind field for HRv8 and dynamical adaptation domains

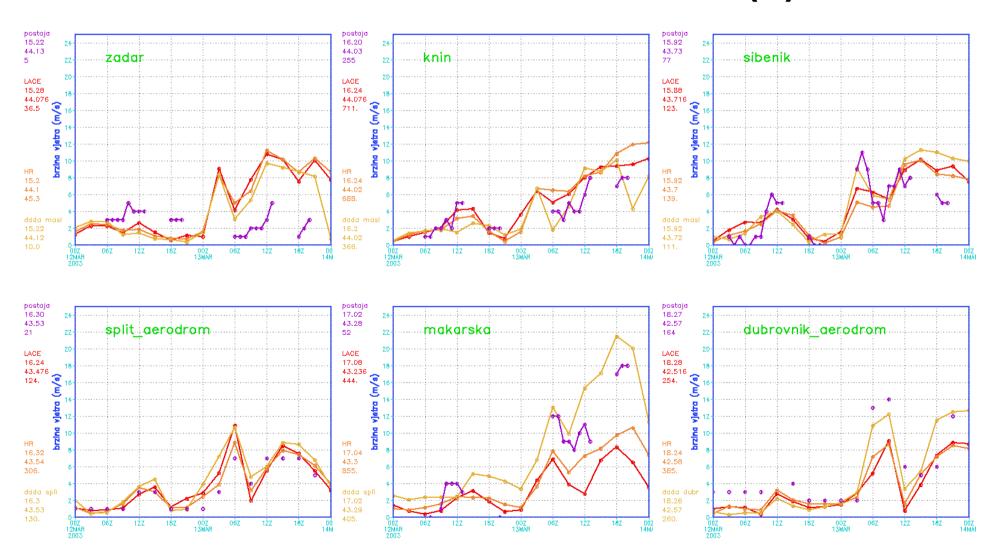


## Comparison of the surface wind field forecast with SINOP data

- -red points LACE (12 km),
- -orange points HRv8 (8km),
- -yellow points dyn. adaptation (2km),
- -violet points SINOP stations.

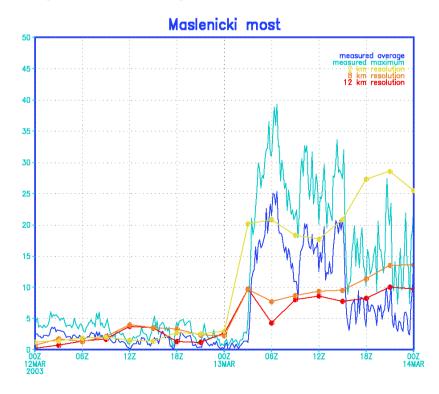


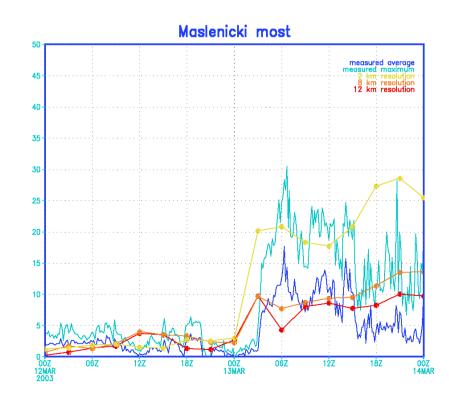
# Comparison of the surface wind field forecast with SINOP data (2)

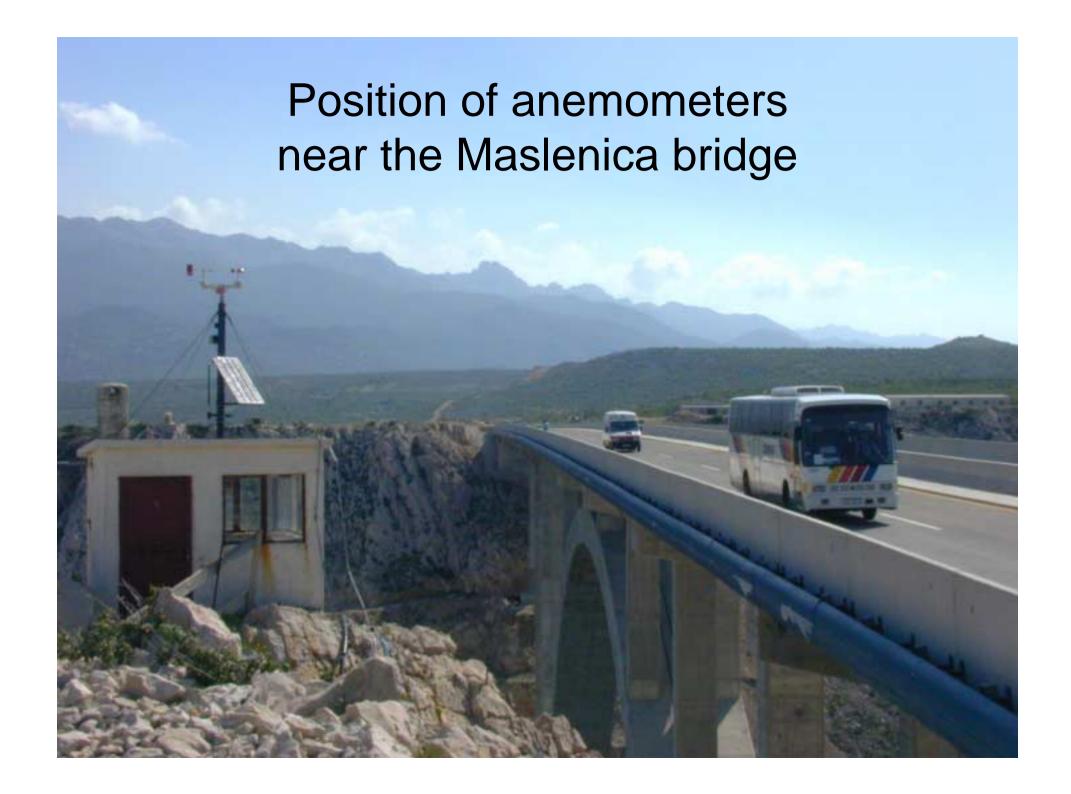


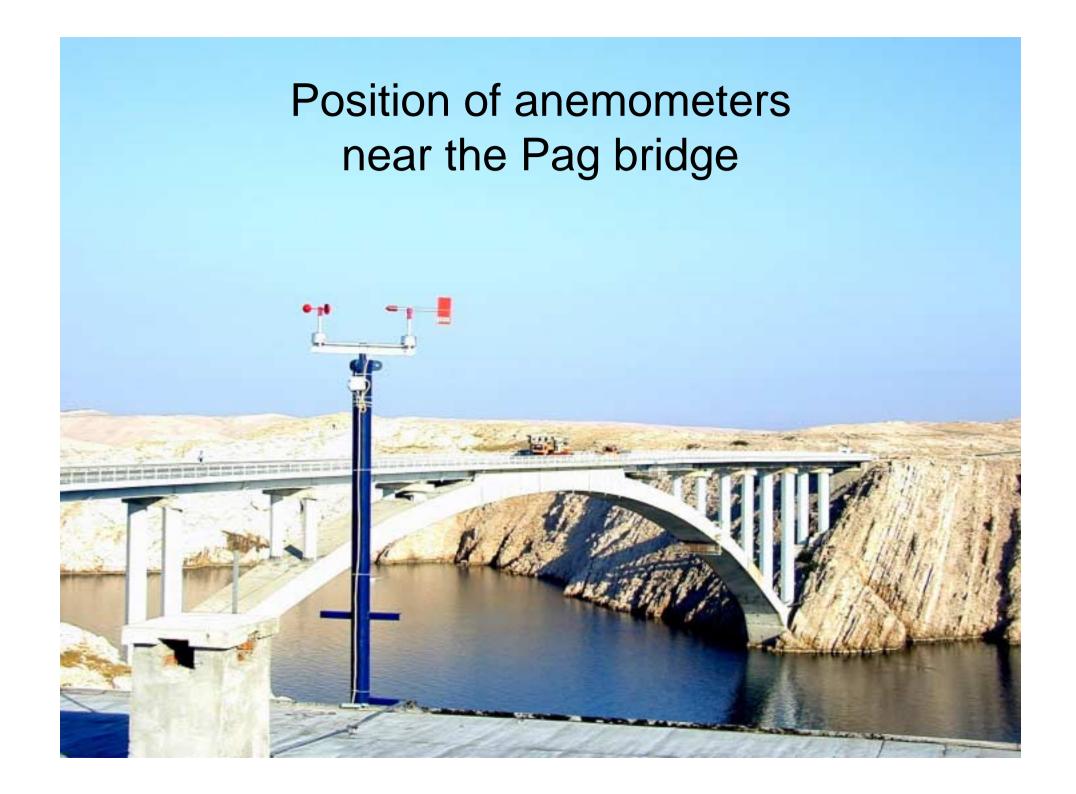
# Comparison of the surface wind field forecast with automatic station data

- -red points LACE (12 km),
- -orange points HRv8 (8km),
- -yellow points dyn. adaptation (2km),
- -bark blue 10-min mean,
- -light blue gust wind speed.

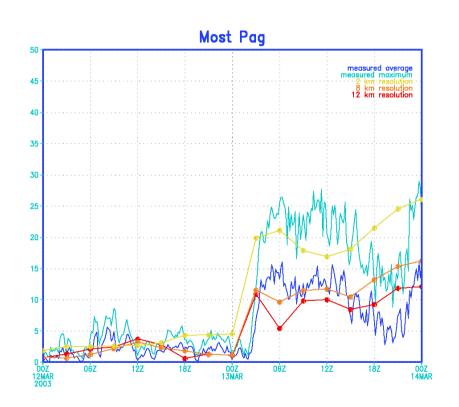


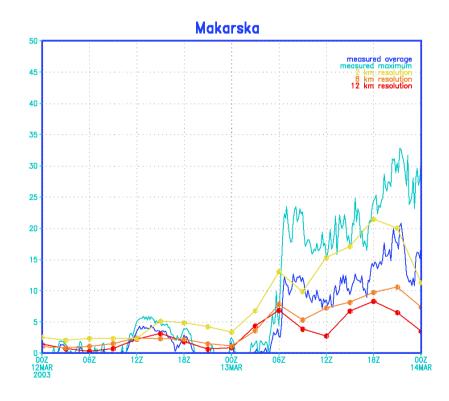


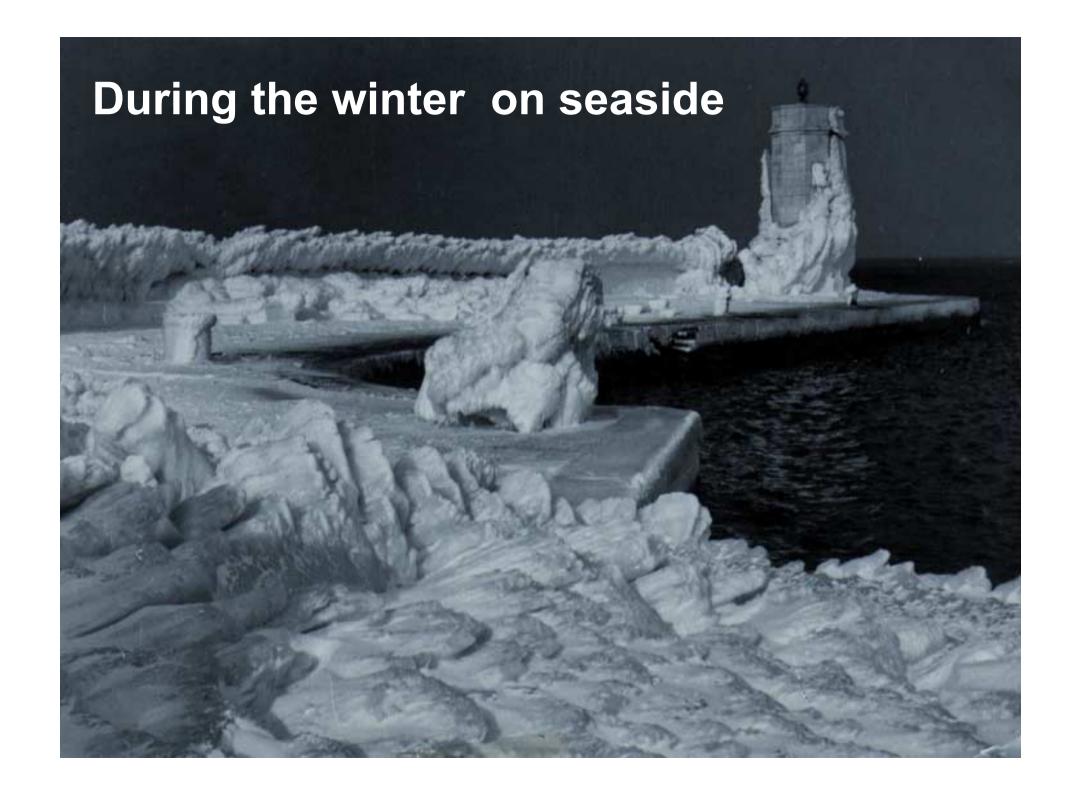




# Comparison of the surface wind field forecast with automatic station data (2)









## **Strange growing trees**



