

## TURKISH STATE METEOROLOGICAL SERVICE

# Towards New Collaboration with ALADIN Consortium

M.Fatih BÜYÜKKASABBAŞI
Head Of NWP Division

### **PLAN**

• Short Introduction of Turkish State Meteorological Service

NWP Activities

Motivations and Objectivies

## Organization

Ministry of Environment and Forestry

Turkish State Meteorological Service

Agricultural Meteorolgy

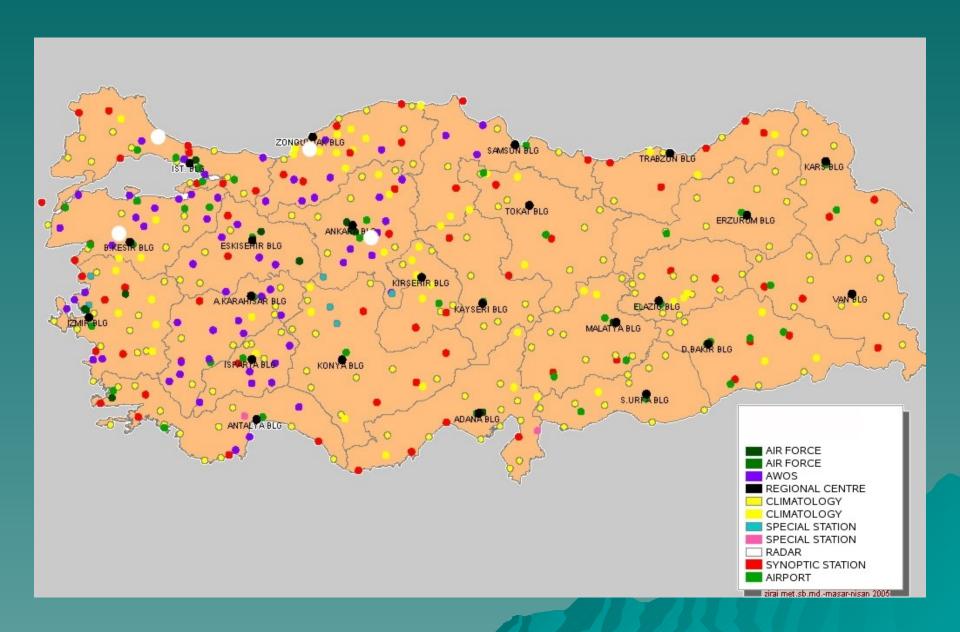
Weather Forecasting

Research Department

Human Recources Administration and Finance Deparment

NWP Division

## **Observational Network**

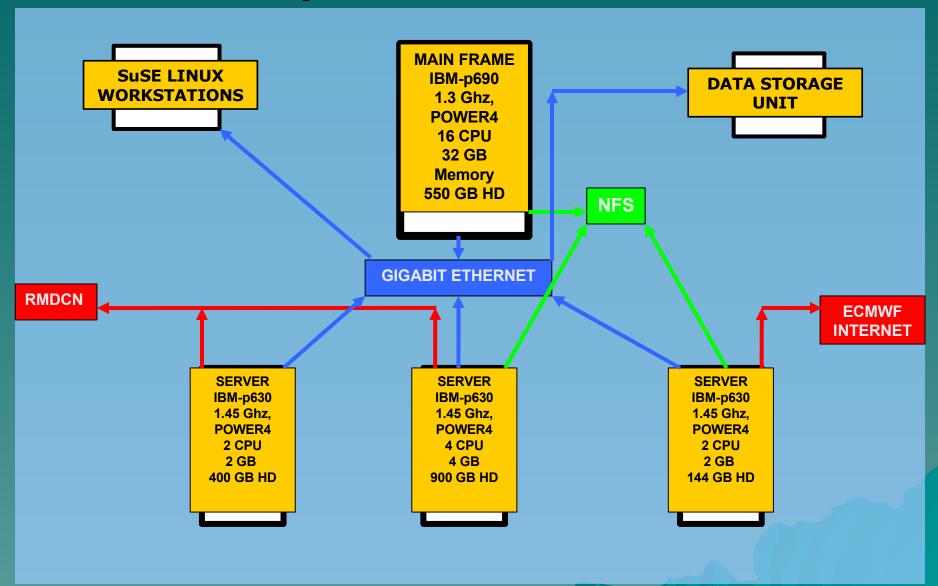


## Observational Network

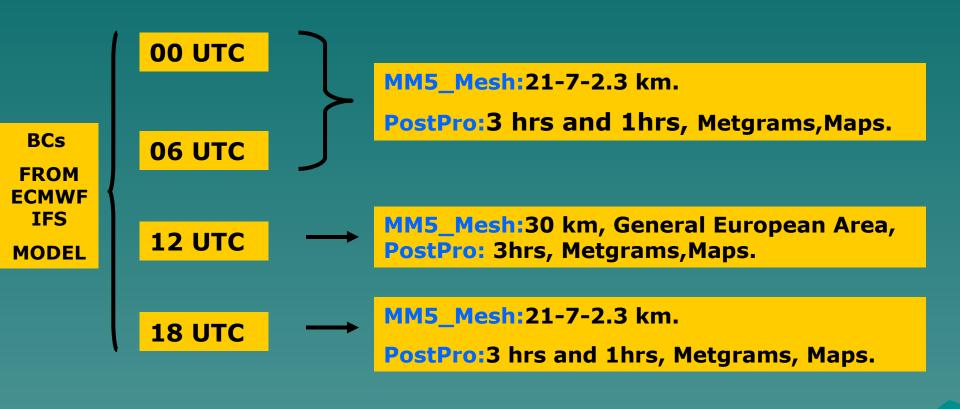
- Regular Stations and AWOS' are connected to headquarters through the dedicated, internet and Satellite lines.
- Additional 11 radars is planed for 2006/2007.
- •More than 200 AWOS' covering Eastern Turkey are planed to install in 2006 or 2007.
- •Total number of AWOS and Radars will be likely 500 and 15 respectively.

# **NWP Activities**

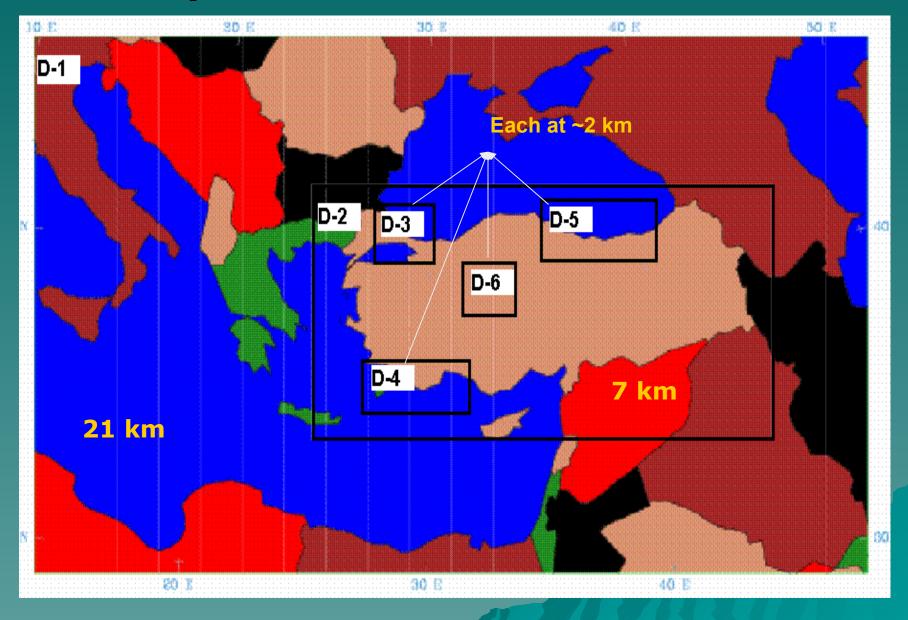
## **Computer Environment**



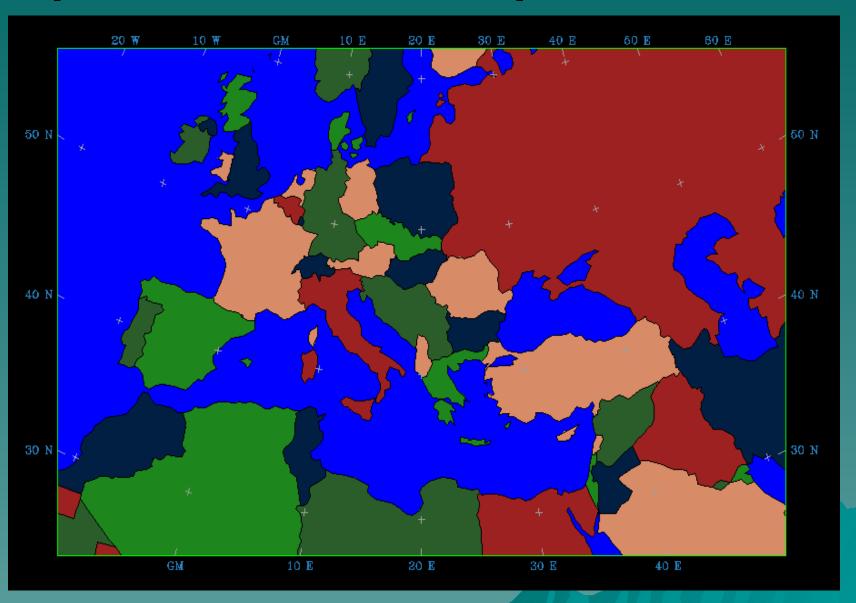
#### **Operational Short-Range Forecasting Scheme**



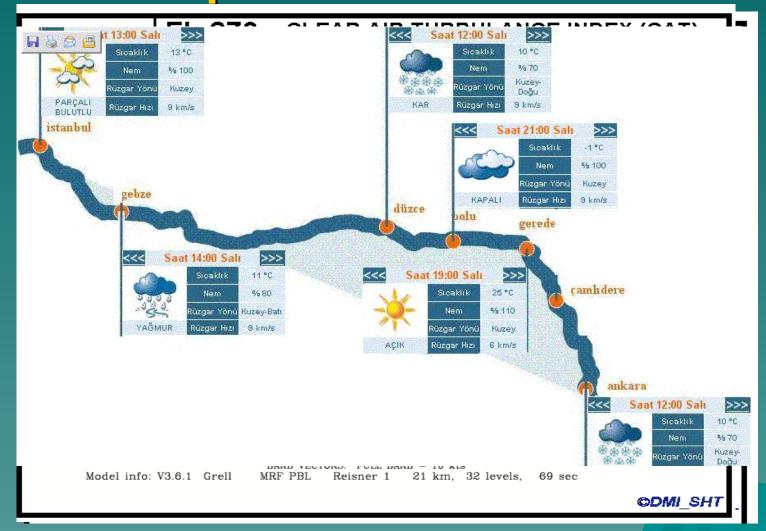
# **Operational MM5 Domains**



# Operational MM5 European Domain

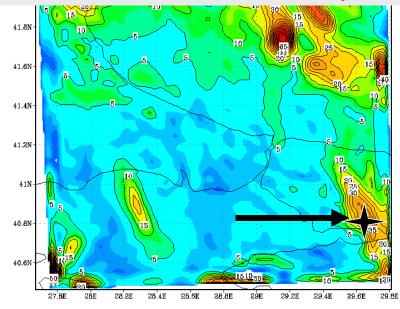


## Sample MM5 Products



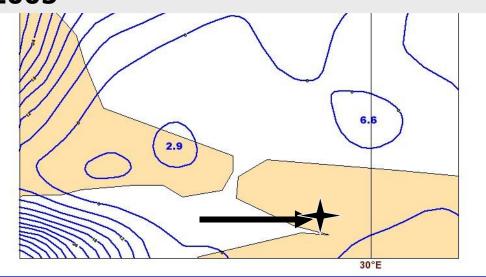
4 July 2005 in the morning, Eastern Part Of Istanbul wake up to hard rain that was well predicted by MM5 2 km run. No satisified signal was given by ECMWF-IFS.

#### MM5,12 hourly total rain forecast Verification time 06:00 UTC, 4 July 2005



STAIST RIMT ATRIMIN SHOP MILDINGH (SRA

ECMWF 18 hourly total rain forecast Verification time 06:00 UTC, 4 July 2005



## **Operational Wave Forecasting Scheme**

METU-3 is a wave model that was developed in cooperation of TSMS and Middle East Technical University-Ankara through a NATO project in early 90's.

METU-3

Turkish Wave Model 00 UTC

12 UTC **Operatinal METU-3 Domains:** 

Black Sea :3 km,72 hrs, 3 hrs postpro.

Marmara Sea :1 km,72 hrs, 3 hrs postpro.

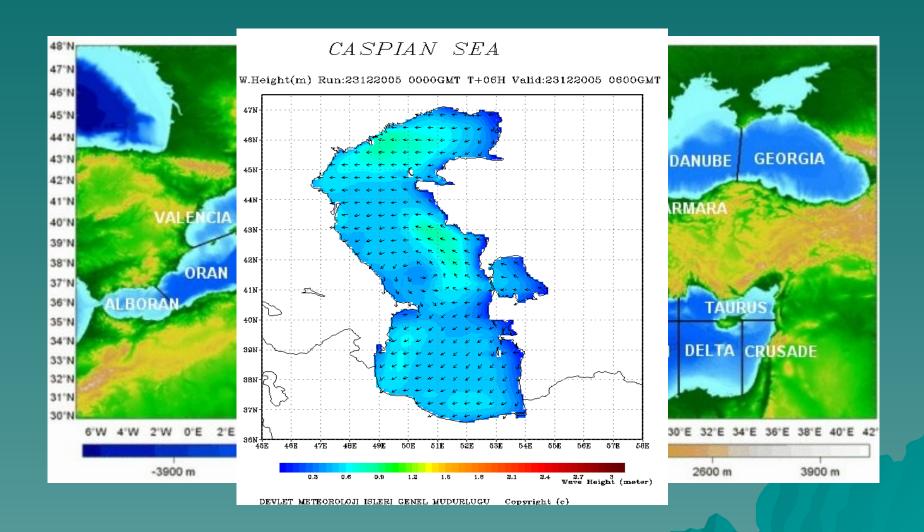
Mediterranean Sea:9 km,72 hrs, 3 hrs postpro.

Caspian Sea :9 km,72 hrs, 3 hrs postpro.

<u>Fields</u> <u>:</u>Significant Wave height and

**Direction, Wave Period and Wind** 

## **METU-3**



#### Motivations and Objectivies

To become a part of a Mesoscale Forecasting Community

To exchange experiences and R&D activities

•Customer based weather forecasting and risk managment for Meteorological Naturel Disasters

To benefit from current and future
 Observational network(Data Assimilation)