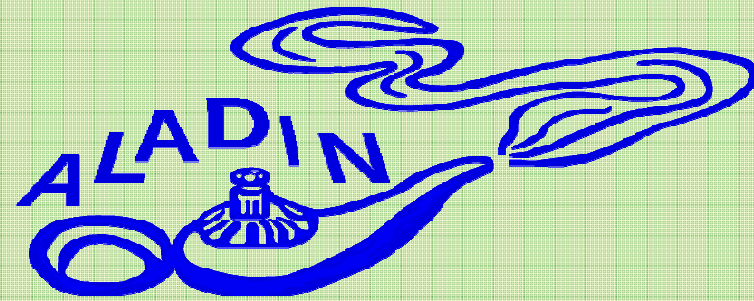


**ALARO-0**  
**Experience in**  
**TURKISH STATE**  
**METEOROLOGICAL SERVICE**

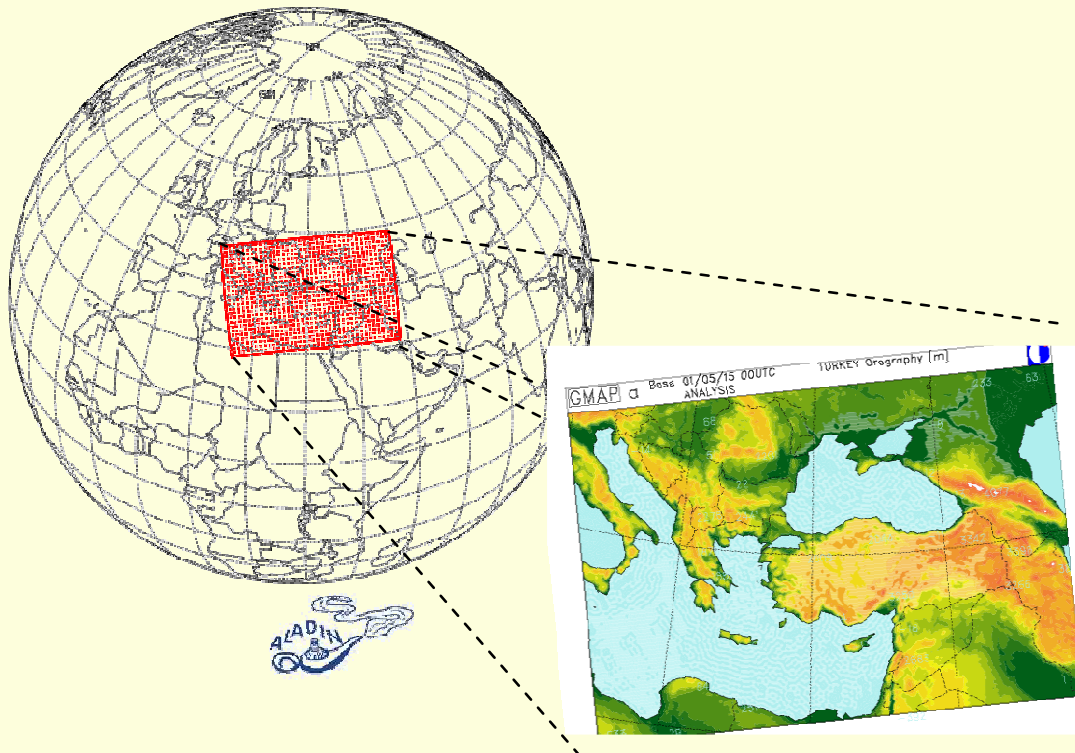
**Meral Sezer**

# ALARO-0 at TSMS

## Pre-operational Configuration



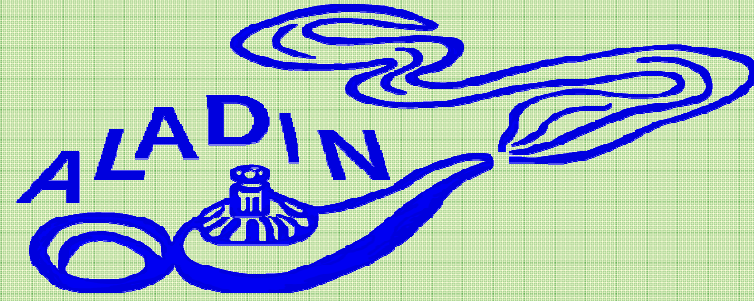
We have been running CY35T1 ALAR0-0 with 3MT and



- 60 Vertical Layers
- 4.5km,linear grid
- Non- Hydrostatic
- DFI
- 300 sec time step
- 48 Hrs Integration
- 3 hourly outputs

# ALARO-0 Experiences

Warning Issued...

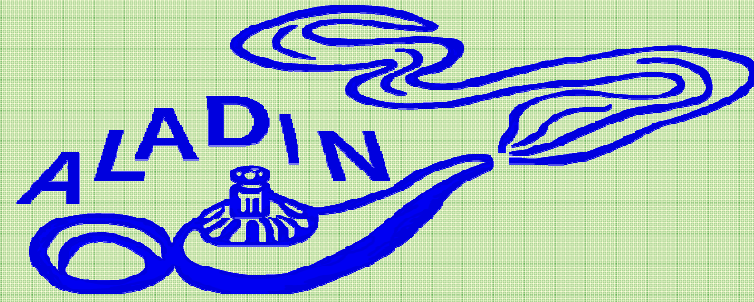


On 4 November 2009 in the morning, TSMS has issued a warning for Southwestern part of country. The warning was including heavy precipitation with severe wind gusts.

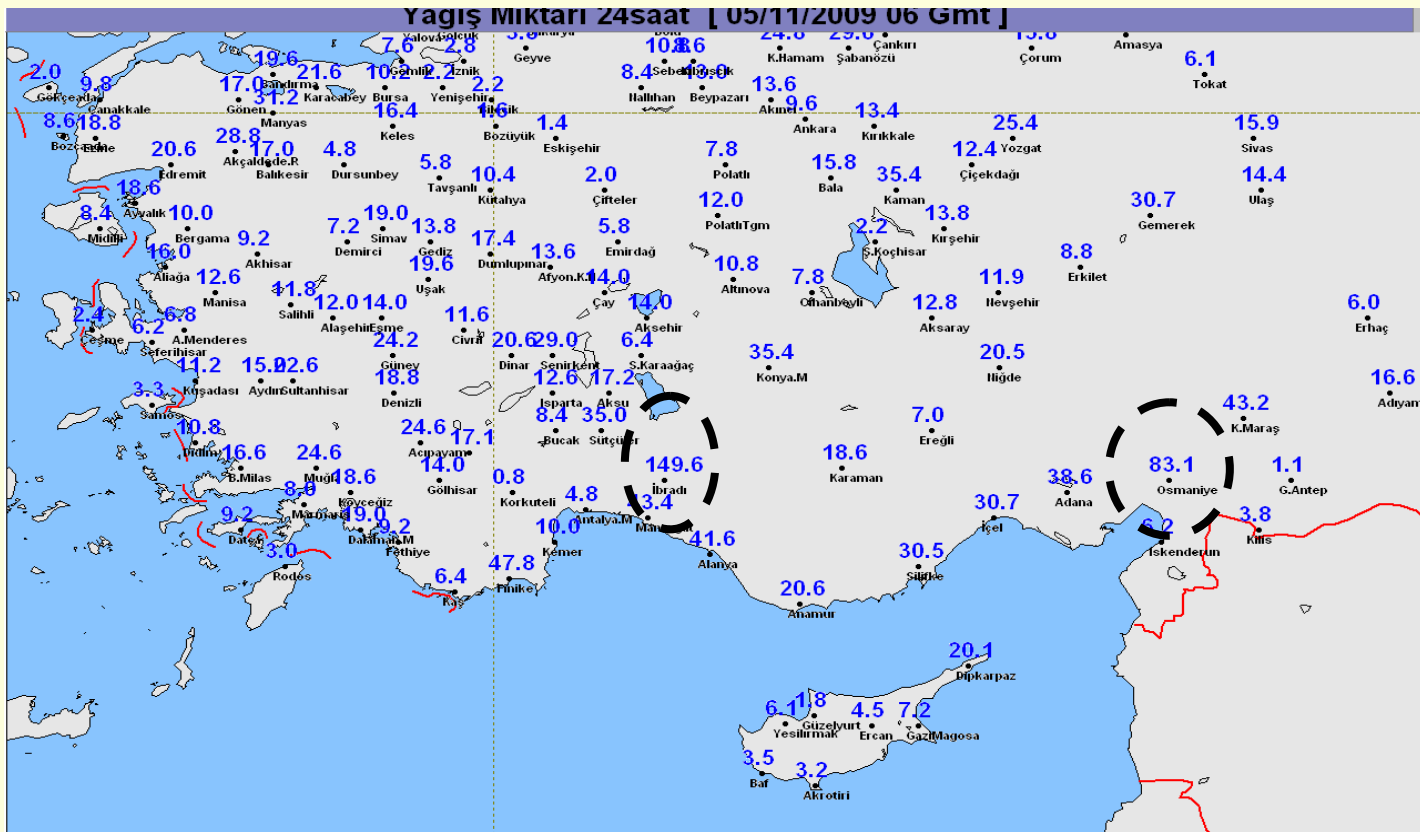


# ALARO-0 Experiences

## Precipitation Observations

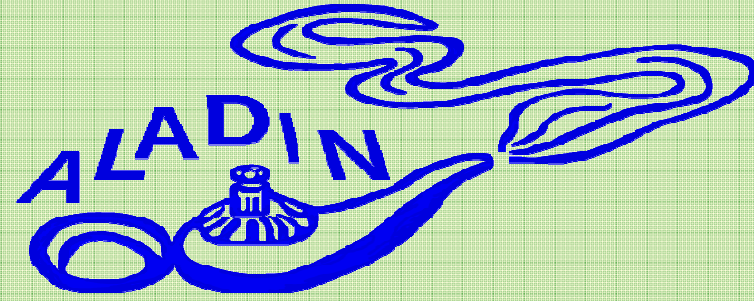


24 Hr Total Precipitation Values observed on 05 November 2009

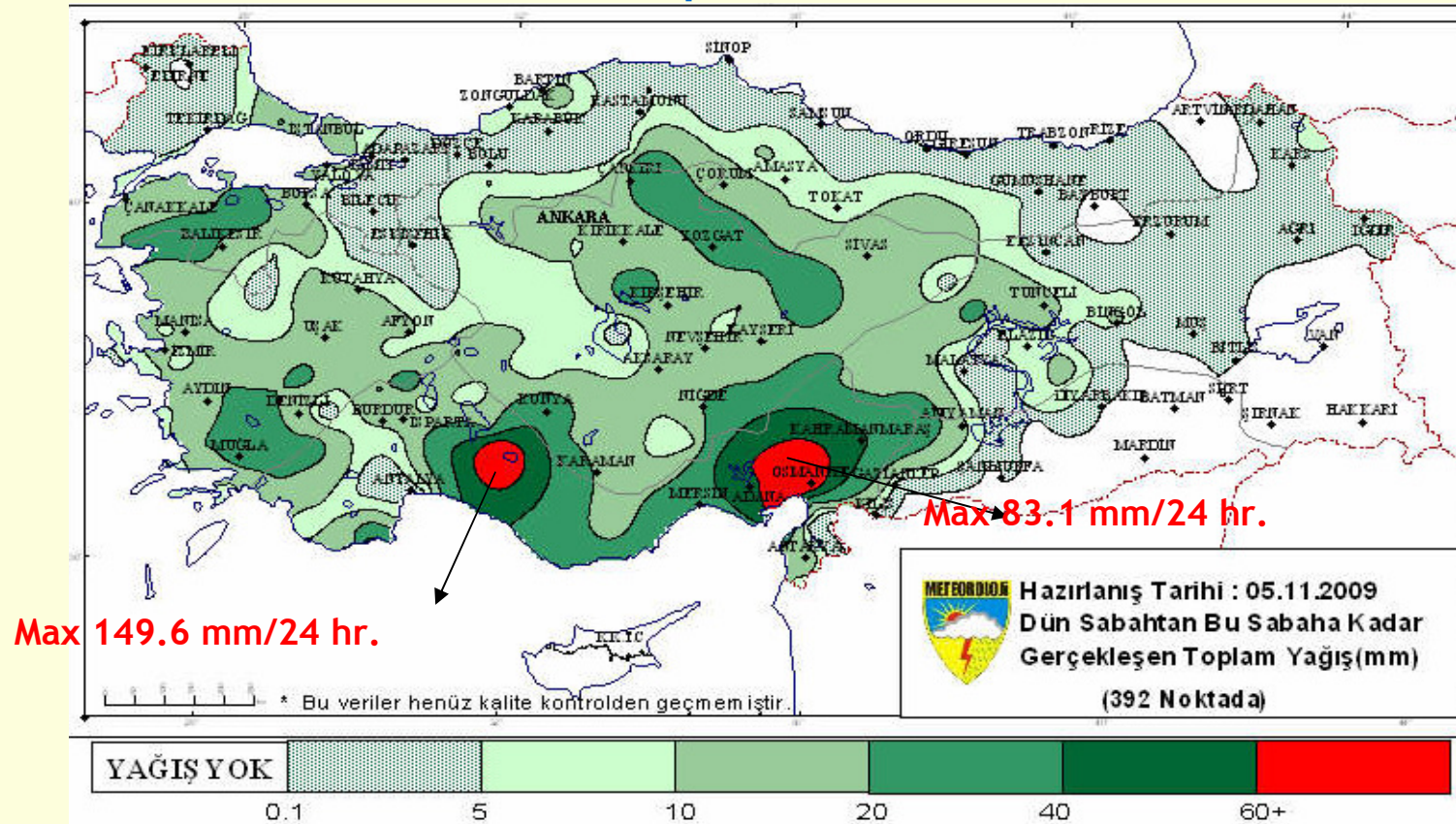


# ALAR0-0 Experiences

## Precipitation Analysis

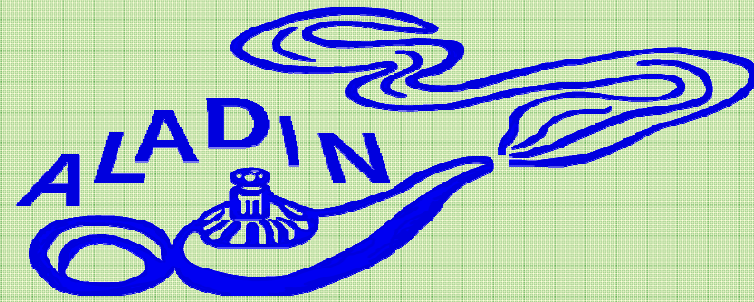


24 Hr Total Precipitation : 05 November 2009

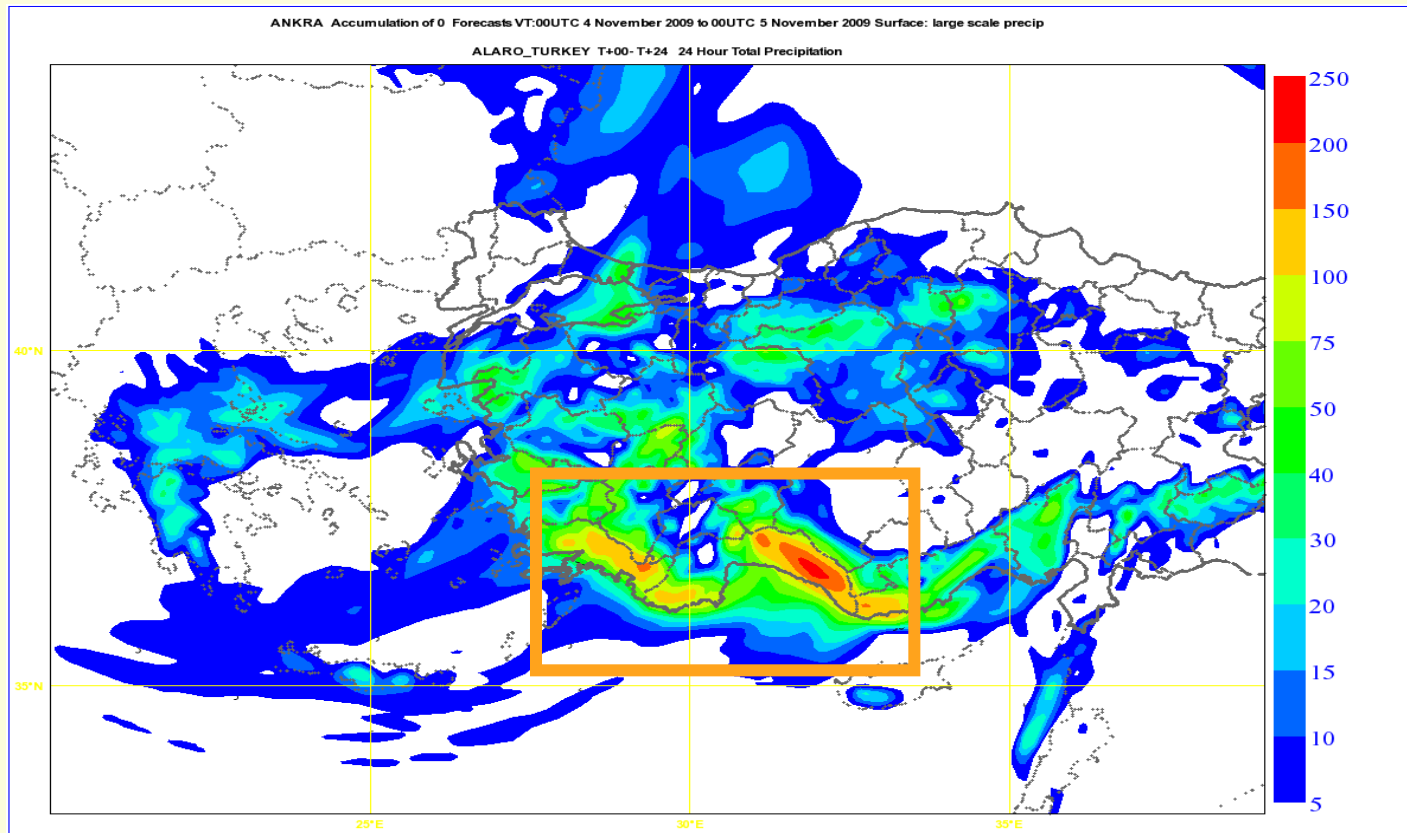


# ALARO-0 Experiences

## ALARO-0 Precipitation Forecast

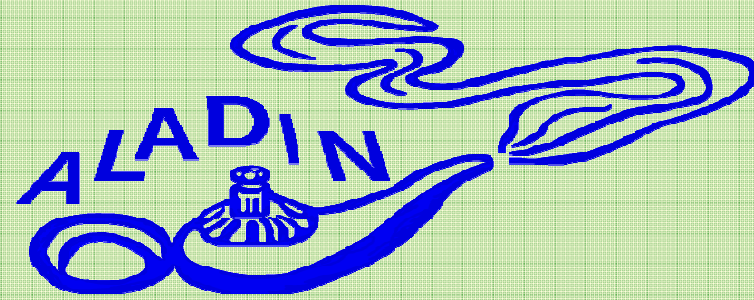


ALARO-0 without DFI 4.0 KM , 24hr Total Precipitation Forecast: 04 Nov 2009 to 05 Nov 2009

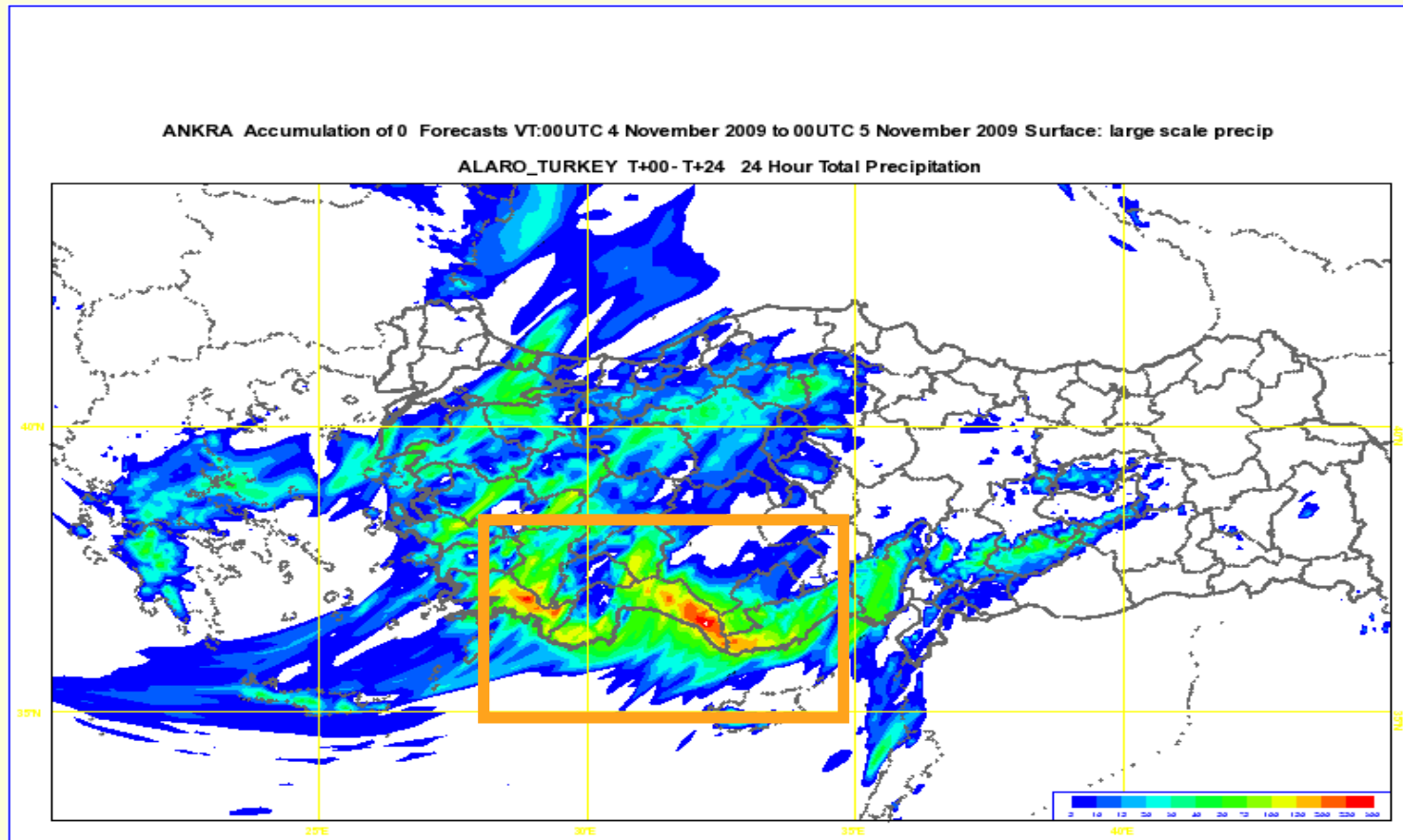


# ALARO-0 Experiences

## ALARO-0 Precipitation Forecast

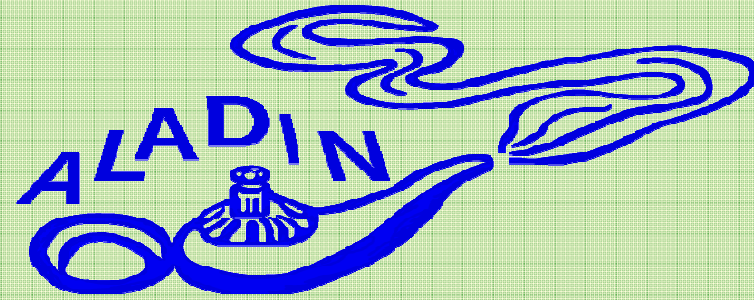


ALARO-0 with DFI 4.5 km , 24hr Total Precipitation Forecast: 04 Nov 2009 to 05 Nov 2009

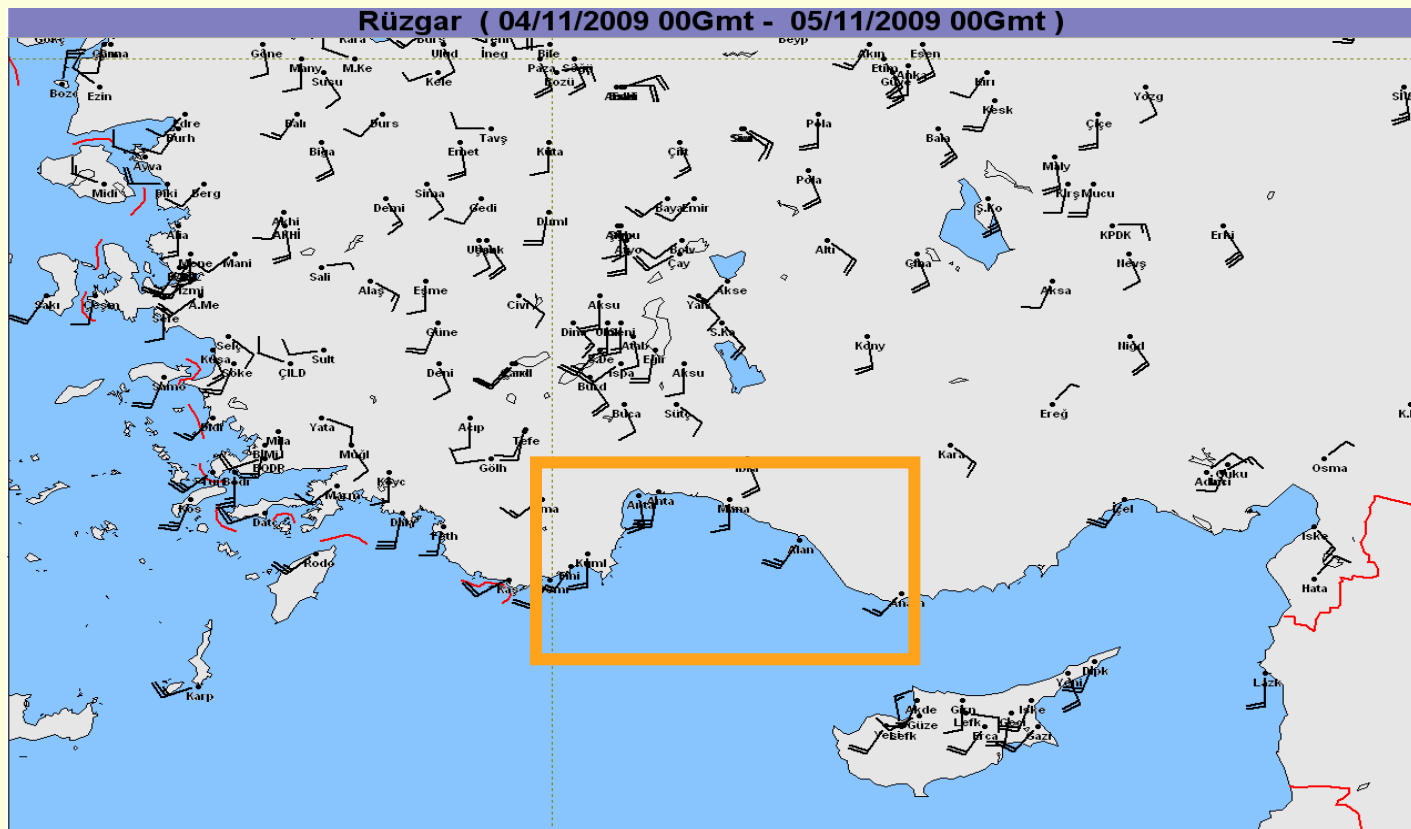


# ALARO-0 Experiences

## Wind Observations



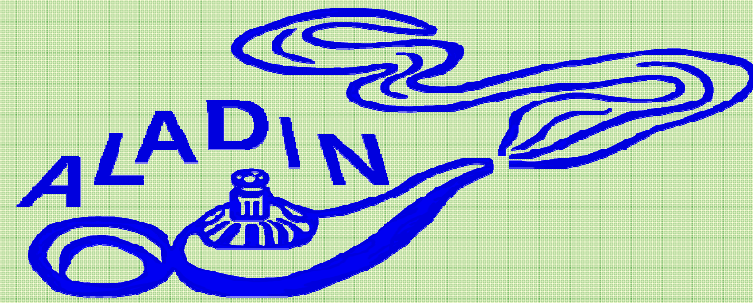
Observed Maximum wind speeds between : 04 Nov 2009 00 UTC and 05 Nov 2009 00 UTC



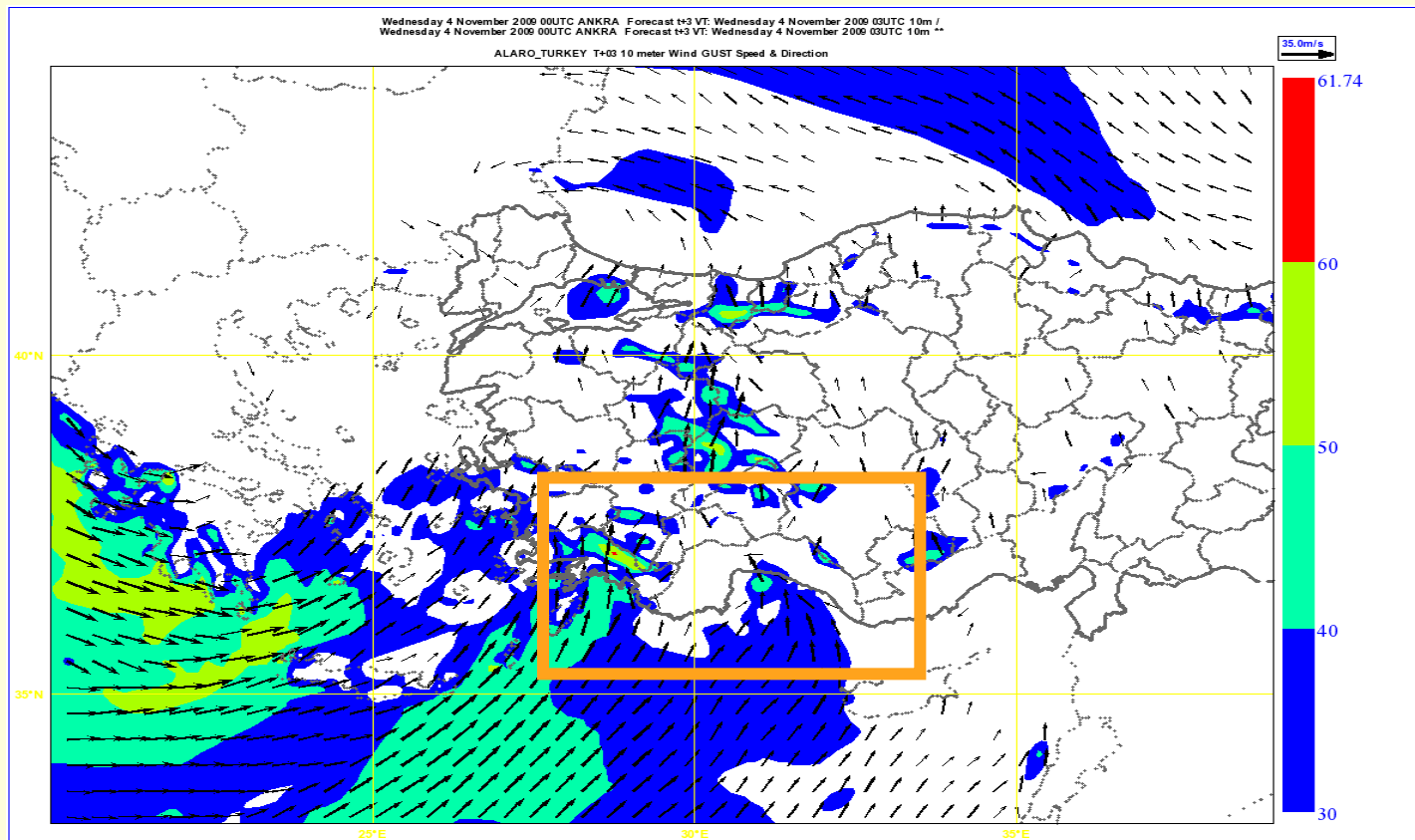


# ALARO-0 Experiences

## ALARO-0 Wind Gust Forecast

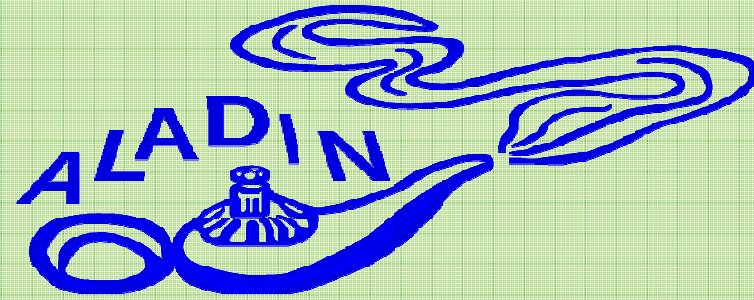


**ALARO-0 without DFI 4 KM, Wind Gust Forecast: From 04 Nov 2009 to 05 Nov 2009**

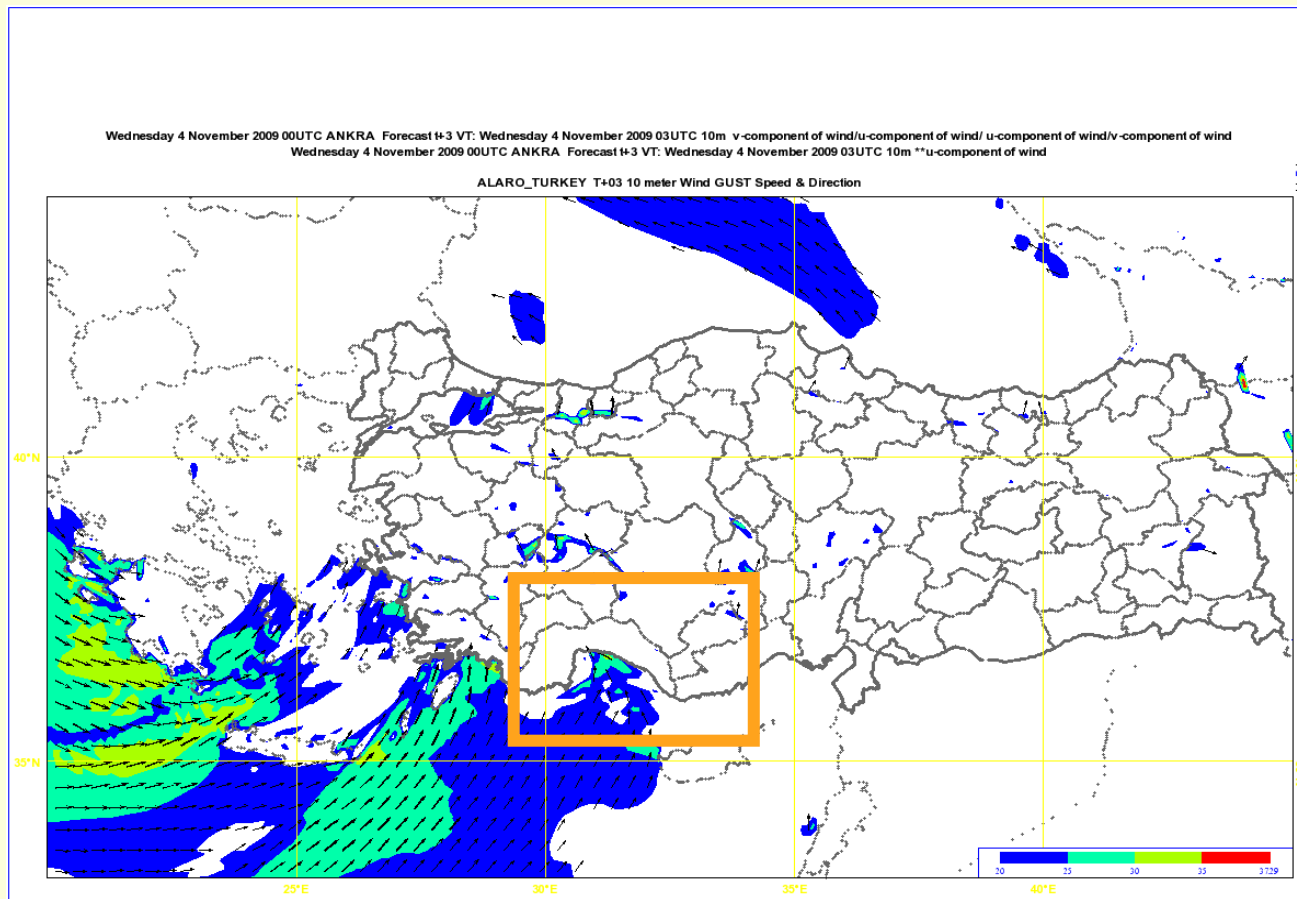


# ALARO-0 Experiences

## ALARO-0 Wind Gust Forecast

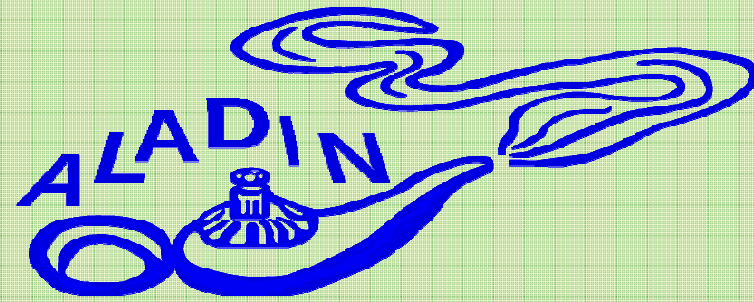


**ALARO-0 with DFI 4.5 KM, Wind Gust Forecast: From 04 Nov 2009 to 05 Nov 2009**



# ALARO-0 Experiences

## Cloudiness forecast

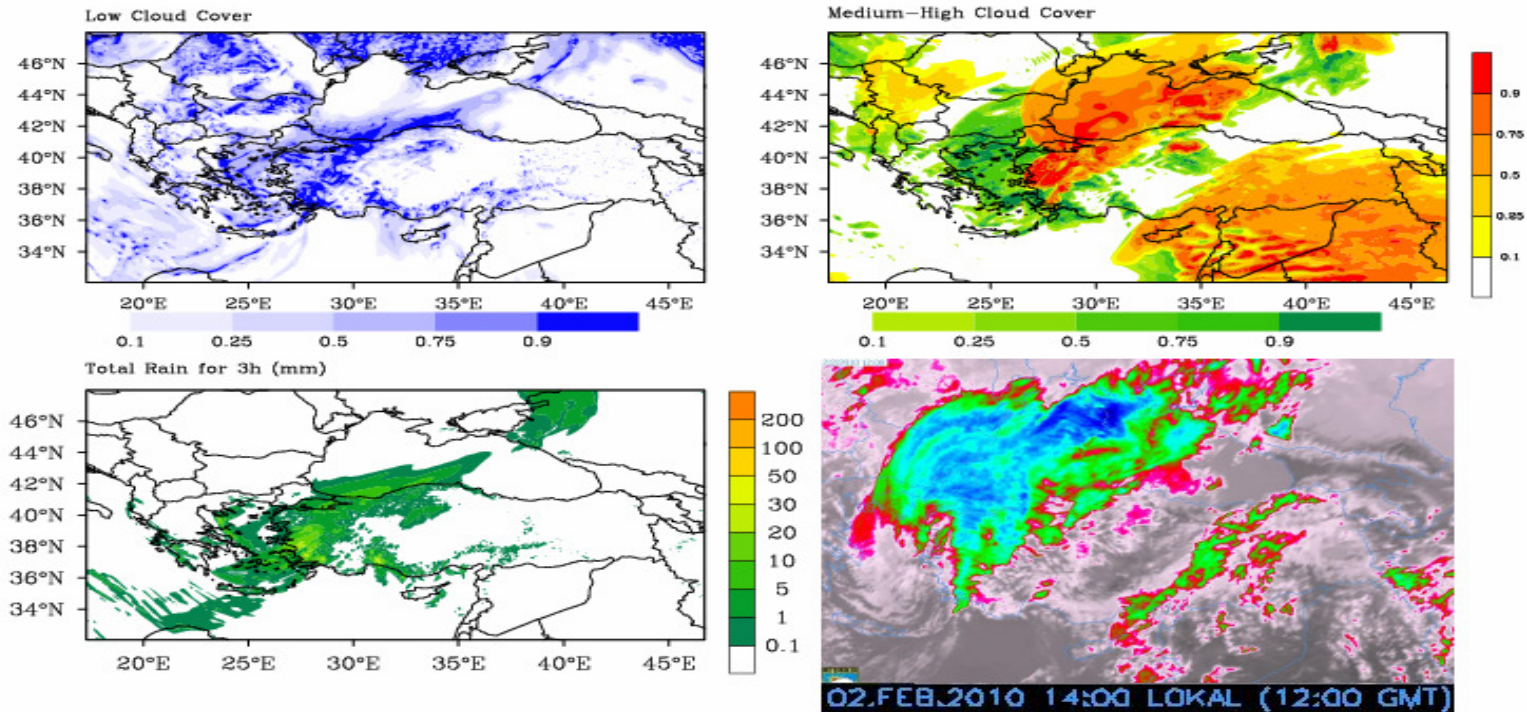


### Comparison forecast with infrared MSG map for 02 February 2010 1200 GMT

#### Low-Medium-High Cloud Cover and 3h Precipitation

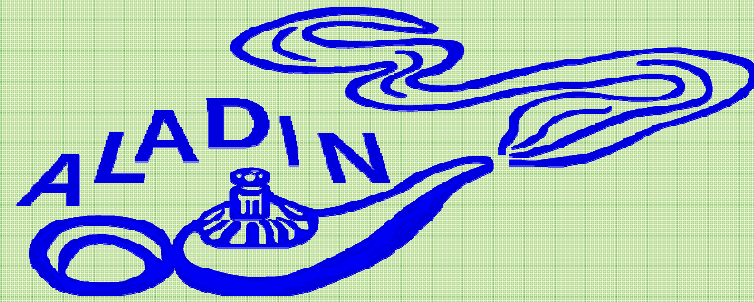
Forecast Time: 2010-02-02 1200 GMT

Run Time: 2010-02-02 0000 GMT

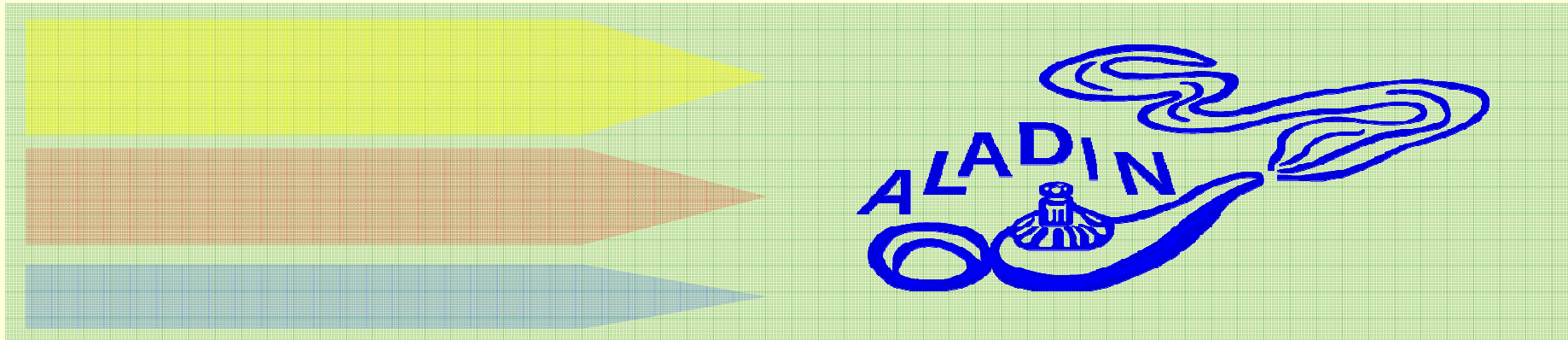


## ALARO-0 Experiences

Final Remarks



- We have been running since January
- Not much more experience in ALARO-0 yet
- Intend to test in NH Mode



**Thank you for your attention**