# First results of ALARO-0 test at DHMZ

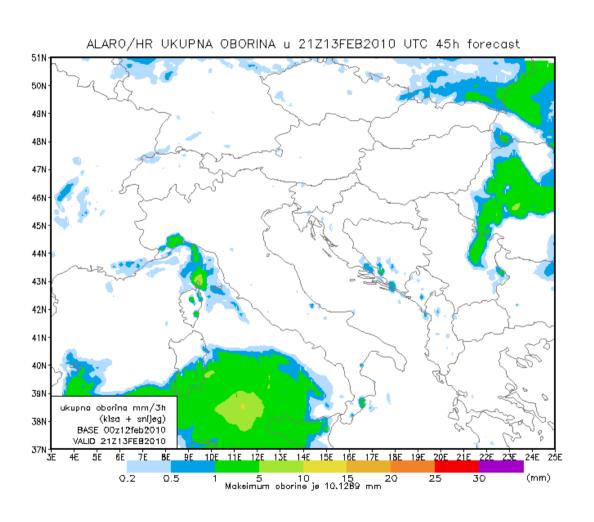
Tomislav Kovačić

Contributions from: Martina Tudor, Stjepan Ivatek Sahdan and Antonio Stanešić

#### Description of experiments

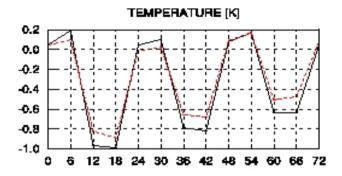
- $\Delta x=8 \text{ km}$
- 37 levels
- 00 H
- Dynamical adaptation
- 1 month period: 02-06-2009 to 30-06-2009
- inpact of 3MT was tested

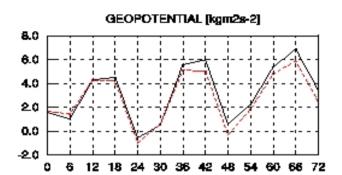
#### Model domain



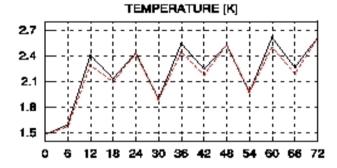
#### Temperature and geopotential

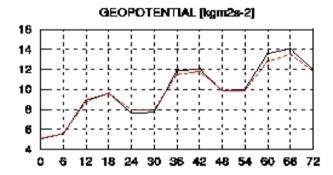
• BIAS



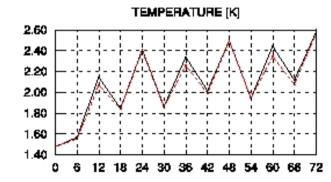


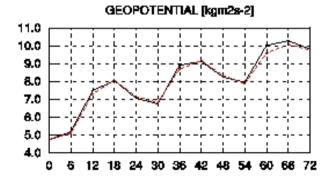
RMSE





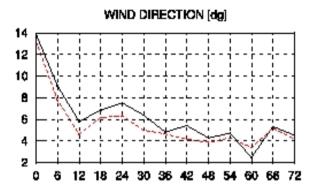
• STD. DEV.

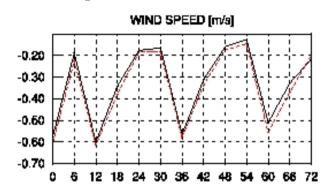




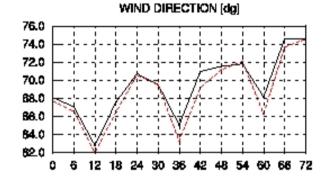
#### Wind direction and speed

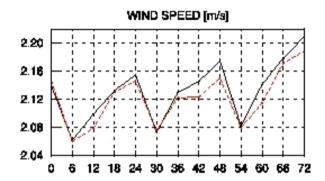
• BIAS



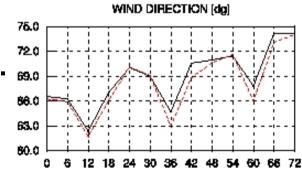


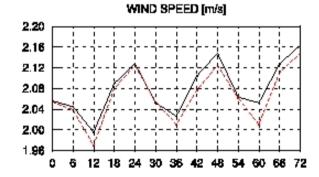
• RMSE





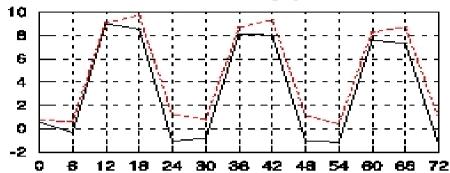
• STD. DEV.



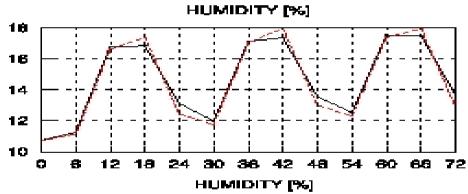


#### Humidity

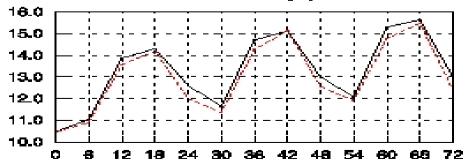
• BIAS



• RMSE



• STD. DEV.

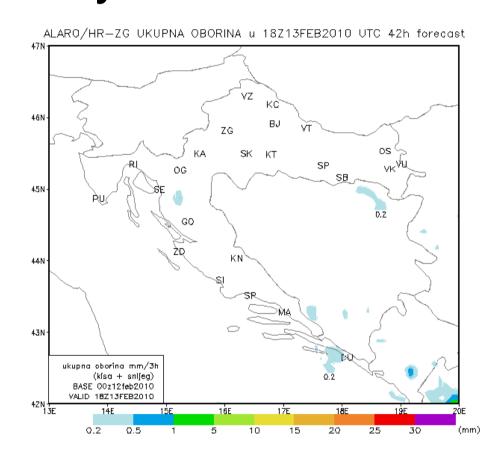


#### Conclusions(1)

	Т	Н	dd	ff	U
BIAS	+0	+0	+	-0	-0
RMSE	+0	0	+0	+0	0
STD. DEV.	+0	0	+0	+0	-0

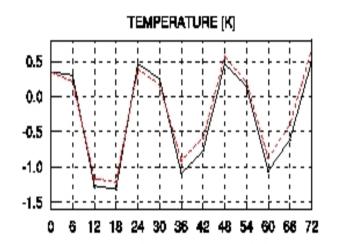
# Convective vs. non convectice days

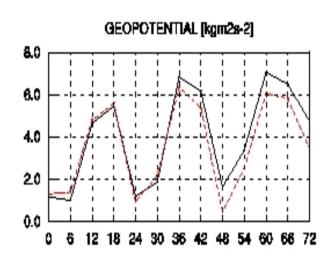
 Verification on smaller domain

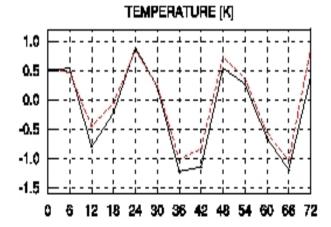


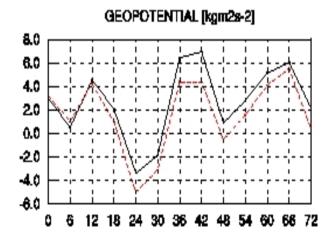
## Temperature and geopotential BIAS

non convective



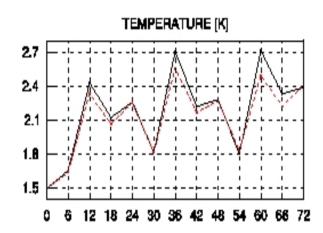


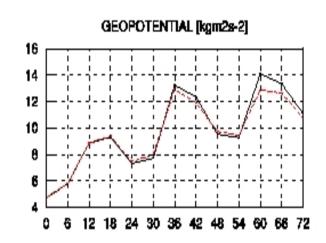


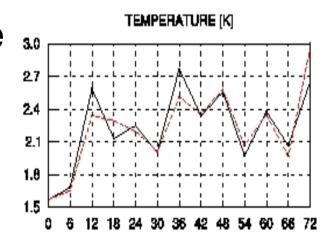


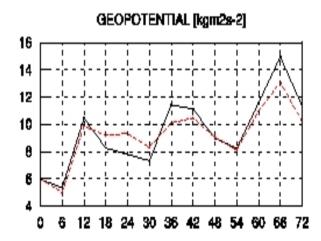
## Temperature and geopotential RMSE

non convective



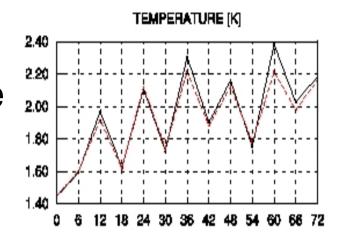


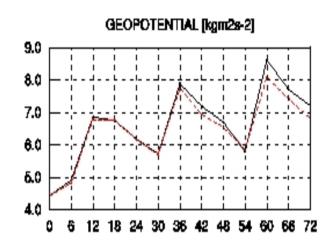


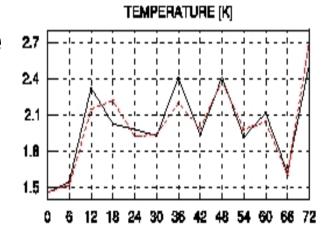


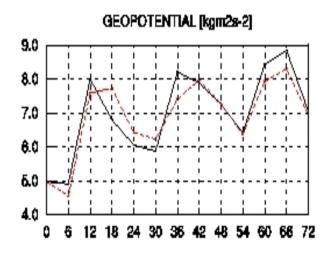
## Temperature and geopotential STANDARD DEVIATION

non convective



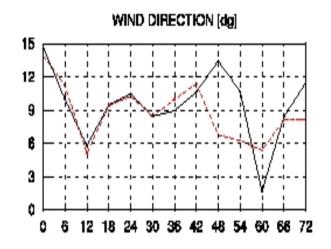


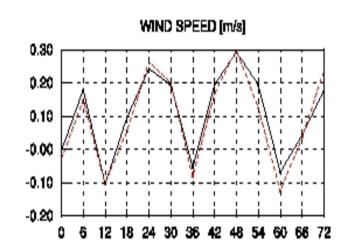


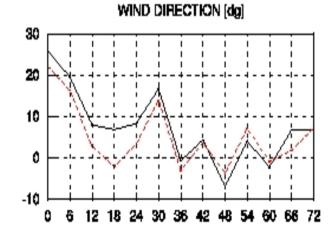


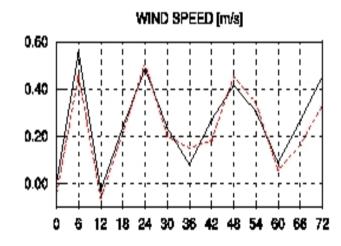
## Wind direction and speed BIAS

non convective



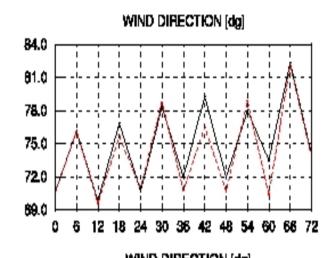


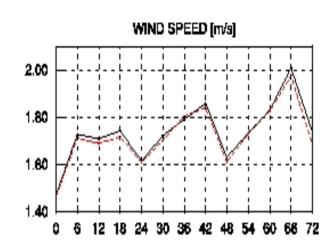


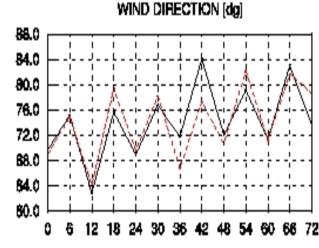


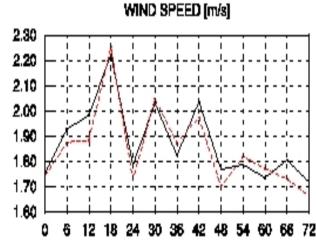
## Wind direction and speed RMSE

non convective



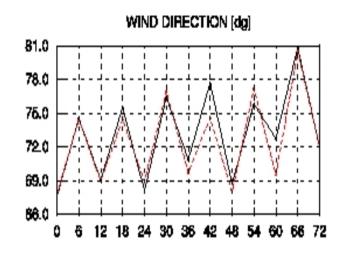


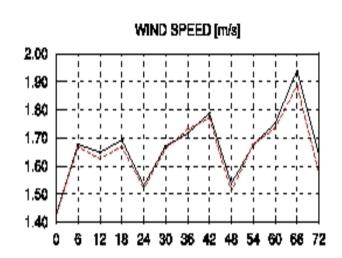


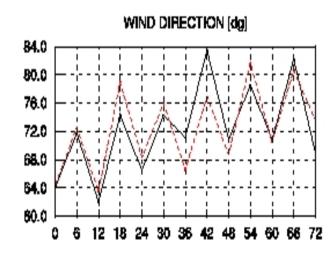


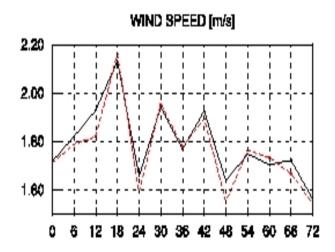
## Wind direction and speed STANDARD DEVIATION

non convective



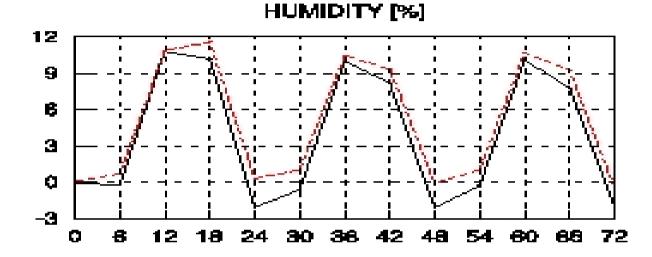


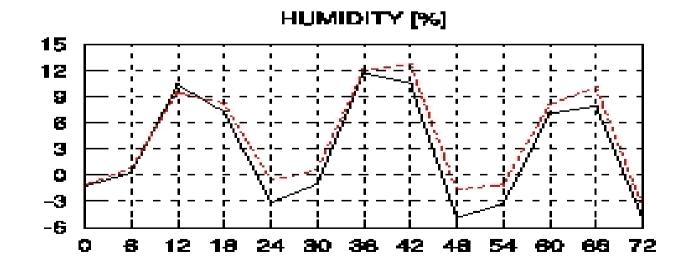




#### Humitity BIAS

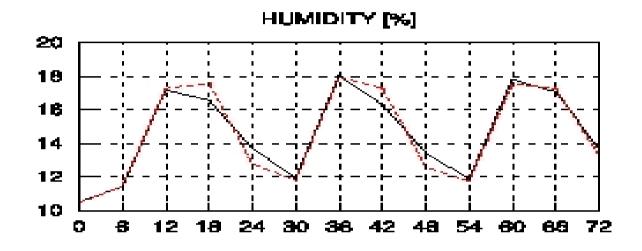
non convective

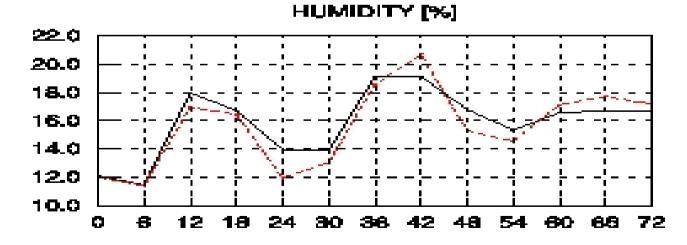




#### Humitity RMSE

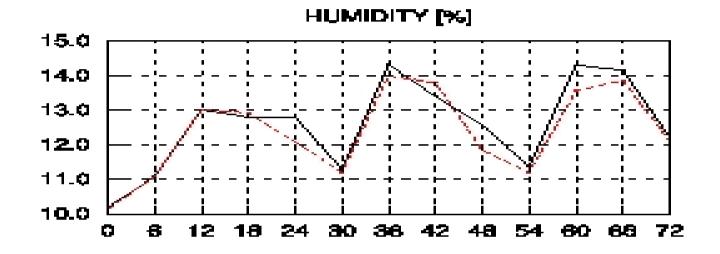
non convective

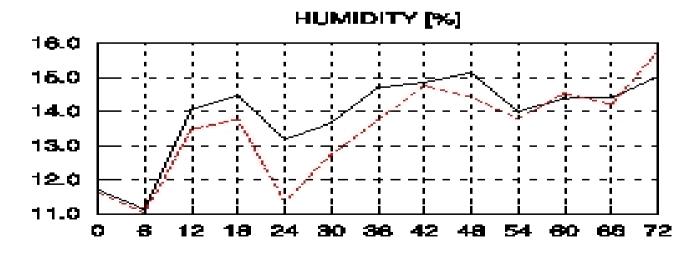




## Humitity STANDARD DEVIATION

non convective





#### Conclusion (2)