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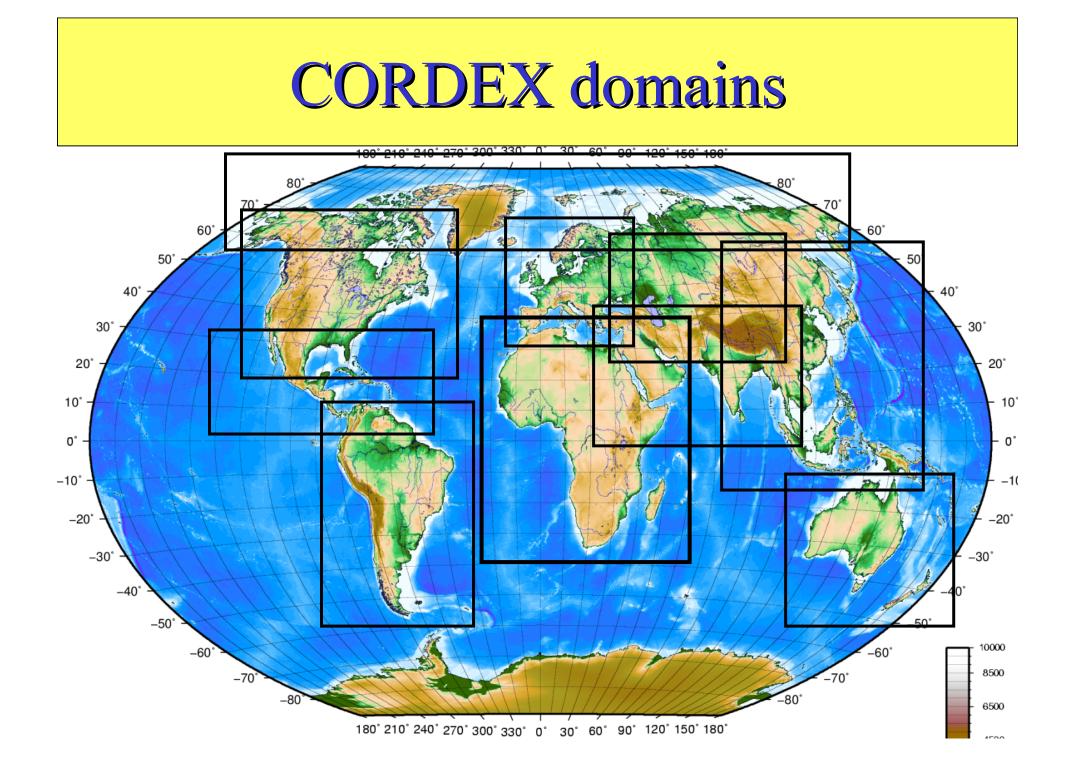
RegCM4.0 EXPERIMENTS FOR CENTRAL ASIA CORDEX DOMAIN

M. L. Kurnaz (Bogazici Univ.)

Murat Turkes (Canakkale 18 Mart Univ.)

Hamza Altinsoy (Bogazici Univ.)

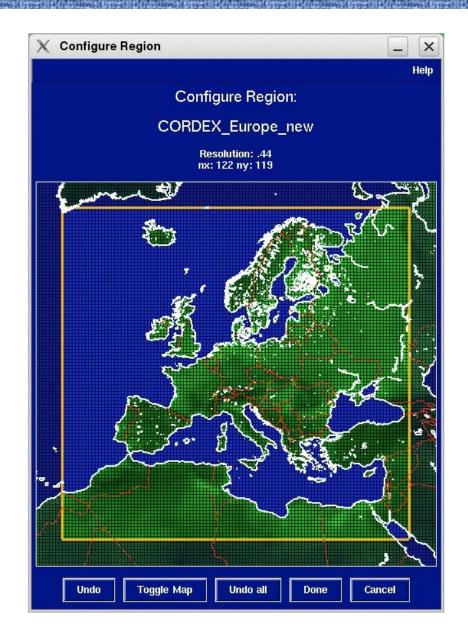
Tugba Ozturk (Bogazici Univ.)





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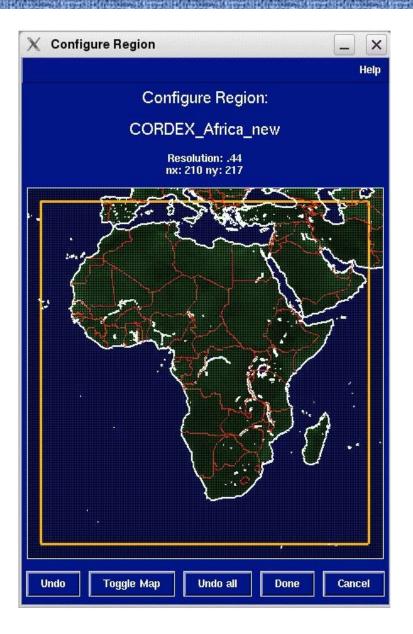


EURO-CORDEX





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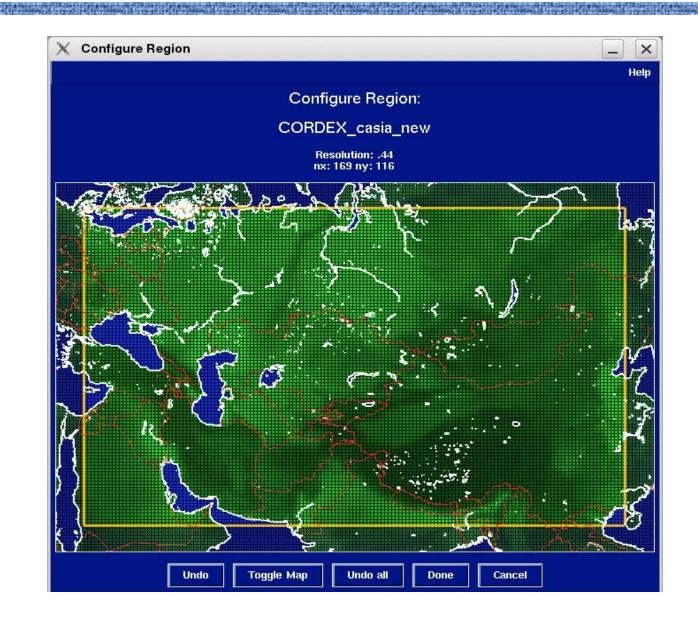






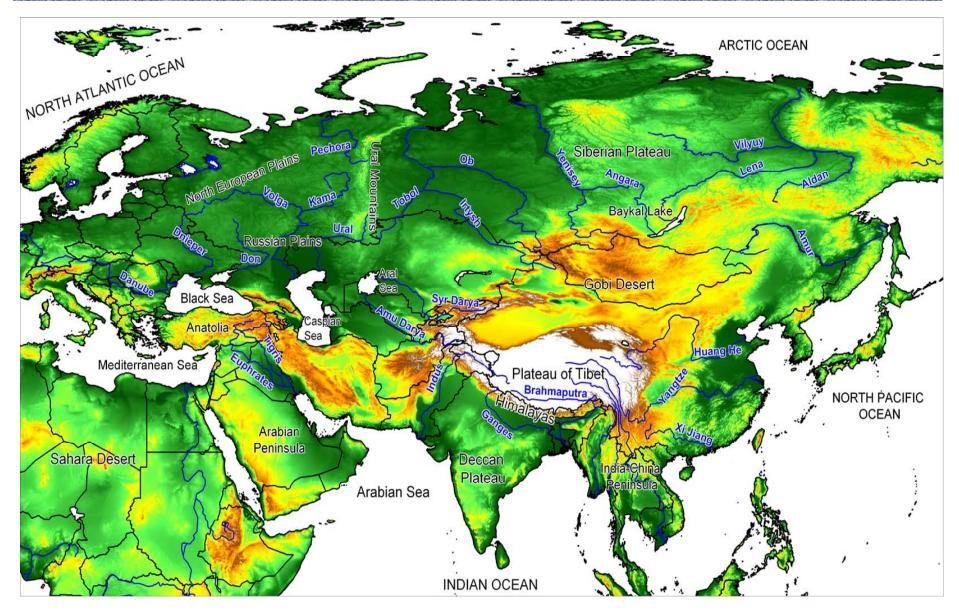
Climate Research

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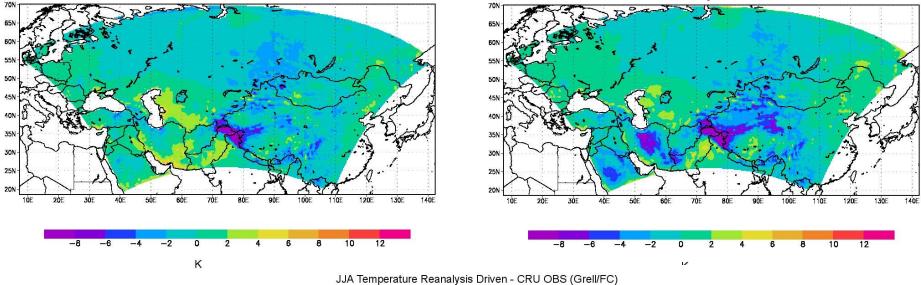


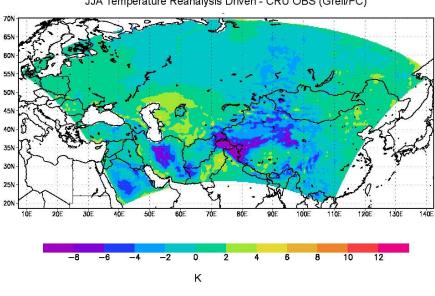
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JJA Temperature Renalysis Driven - CRU OBS (Emanuel)

JJA Temperature Reanalysis Driven - CRU OBS (Grell/AS)





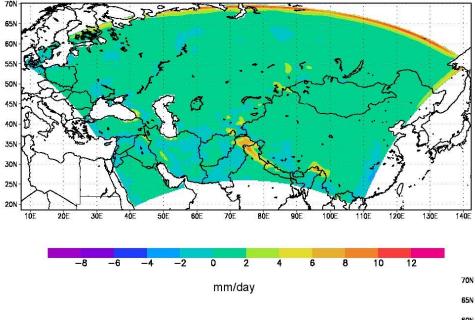


Climate Research

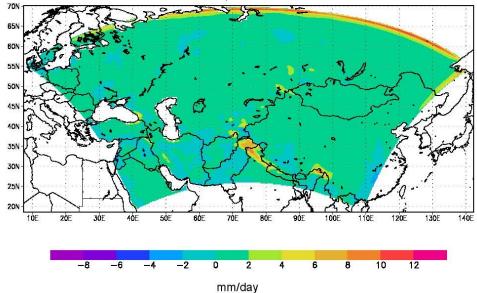
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DJF Precipitation Reanalysis Driven - CRU OBS (Grell/AS)



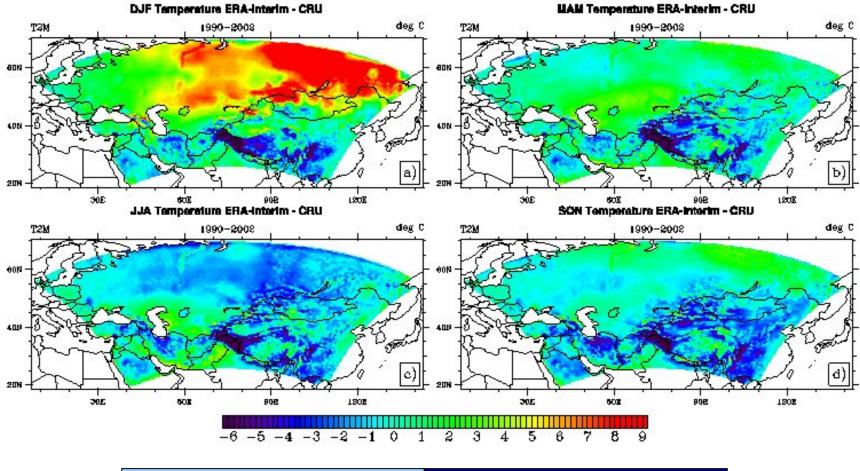
DJF Precipitation Reanalysis Driven - CRU OBS (GRELL/FC)





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Temperature (RegCM 4.0 - CRU)



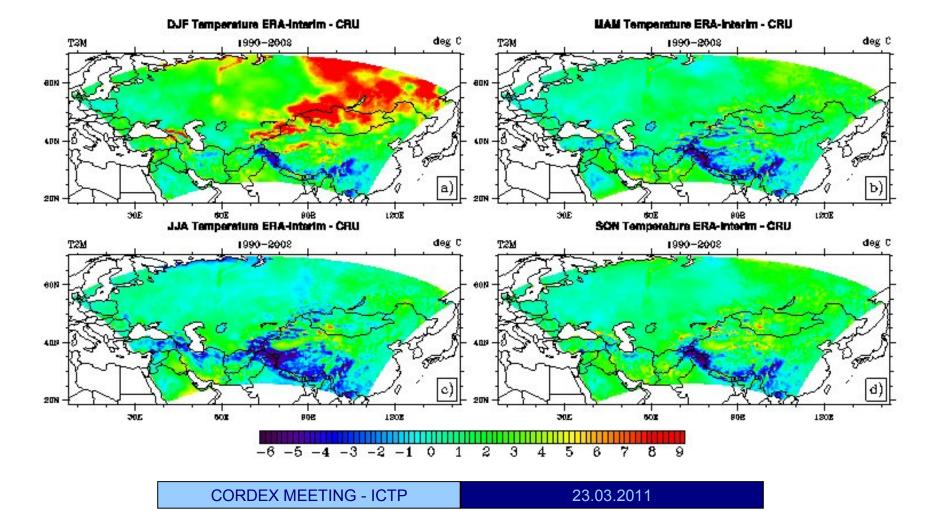
CORDEX MEETING - ICTP

23.03.2011



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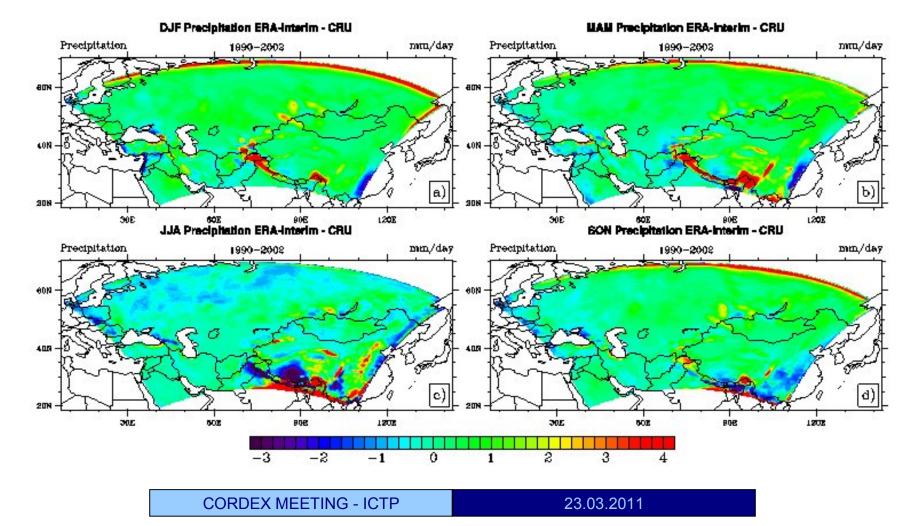
Temperature (ERA Interim - CRU)





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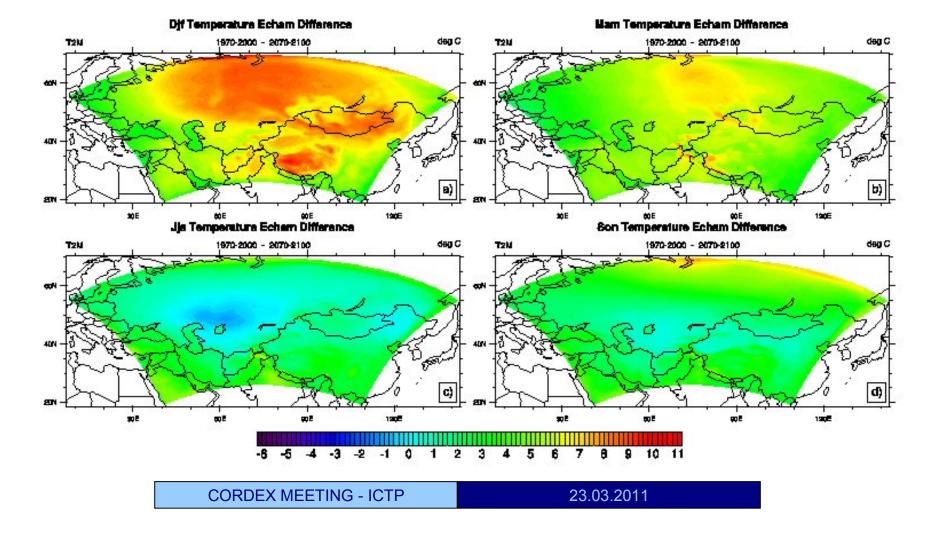
Precipitation (RegCM 4.0 - CRU)





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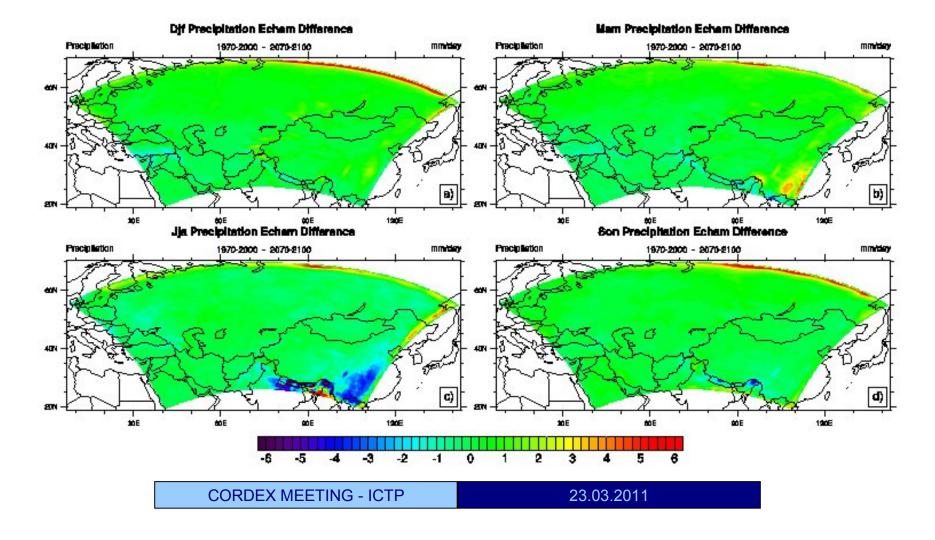
Temperature (Forecast – Hindcast)





Climate Research Group

Precipitation (Forecast – Hindcast)





Conclusion:

Both reanalysis datasets and regional model are capable of reproducing observed climate.

We got strong warm bias in the northern part of the domain in winter season because, forcing data has also warm bias itself and perhaps RegCM is not able to produce snow cover on the surface in winter season.

Due to seasonal variability of the deep convective clouds and station data bias, we had cold bias around mountainous parts of the region.

In precipitation climatology of the domain, some deficient precipitation amount is found due to weaking of the regional temperature and thus pressure gradients over the region.

We can say that the RegCM is generally well simulated the precipitation climatology of the region.