



Stratosphere – Troposphere Exchange :

Sensitivity Analysis using RegCM4.3

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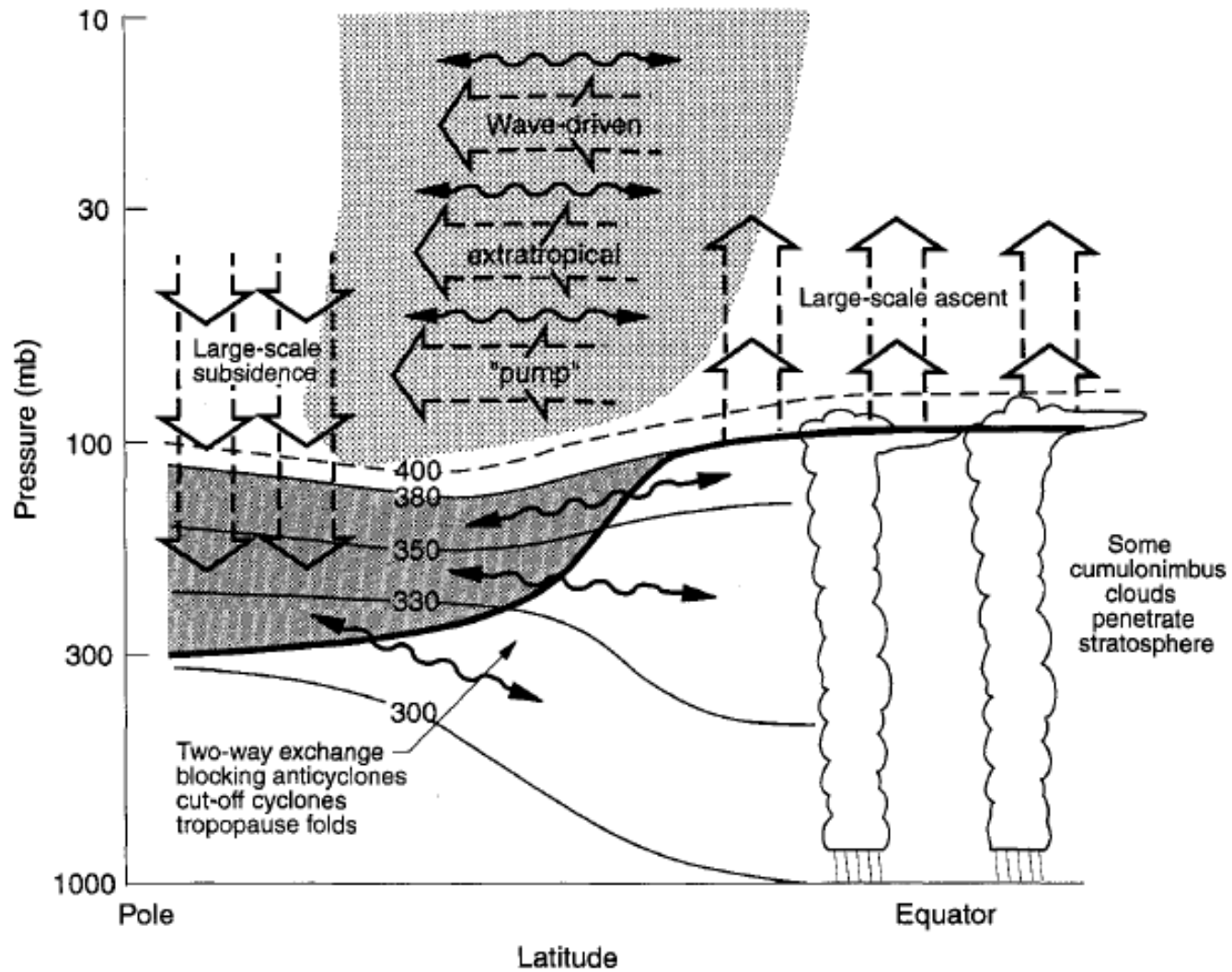
Eleni Katragkou , AUTH, Greece

Lusine, Gevorgyan, EIMC, Armenia

Vijayakumar S Nair, SPL, VSSC, India



Motivation



Experiment Design

RegCM 4.3 (Version 11 !)

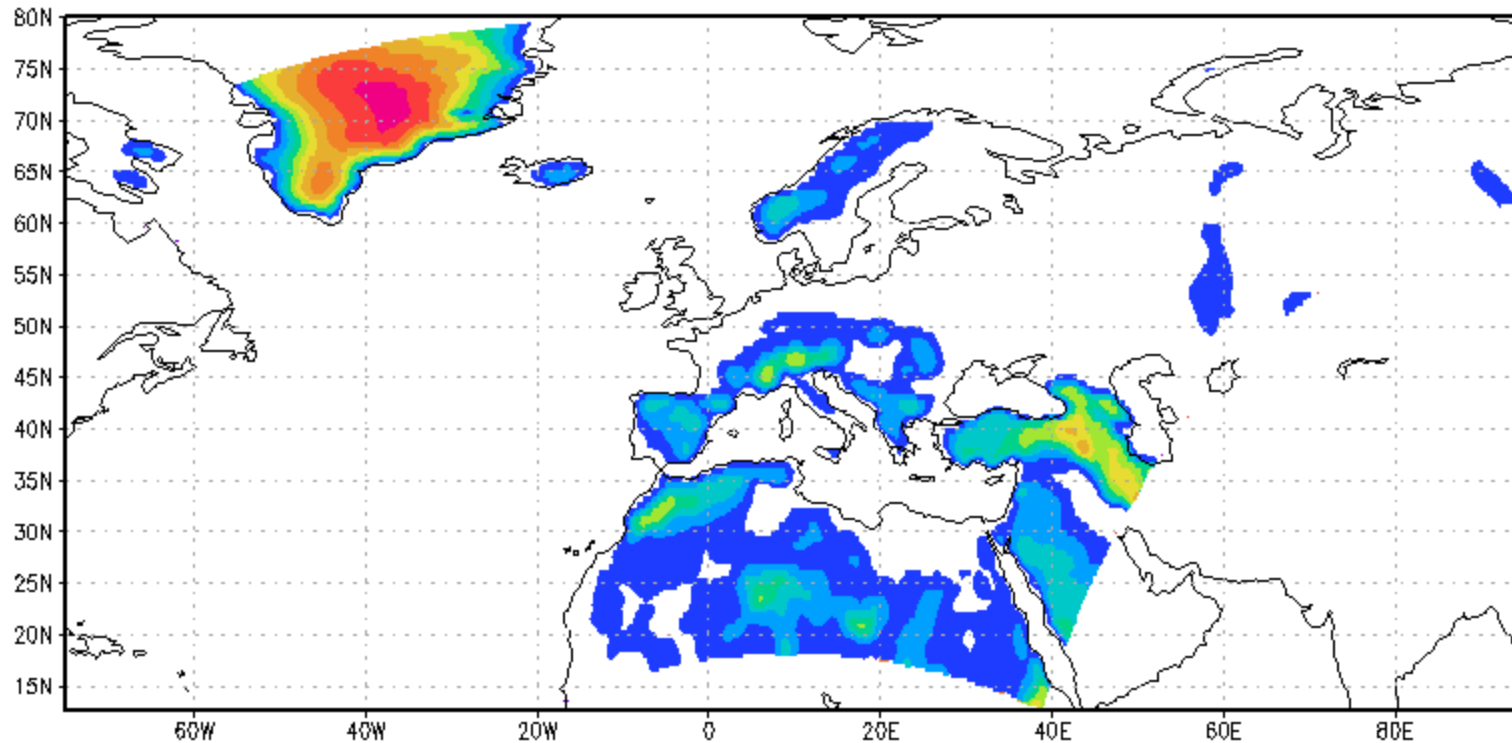
Domain: Euro-CORDEX

Convection : Grell,

Land surface : BATS,

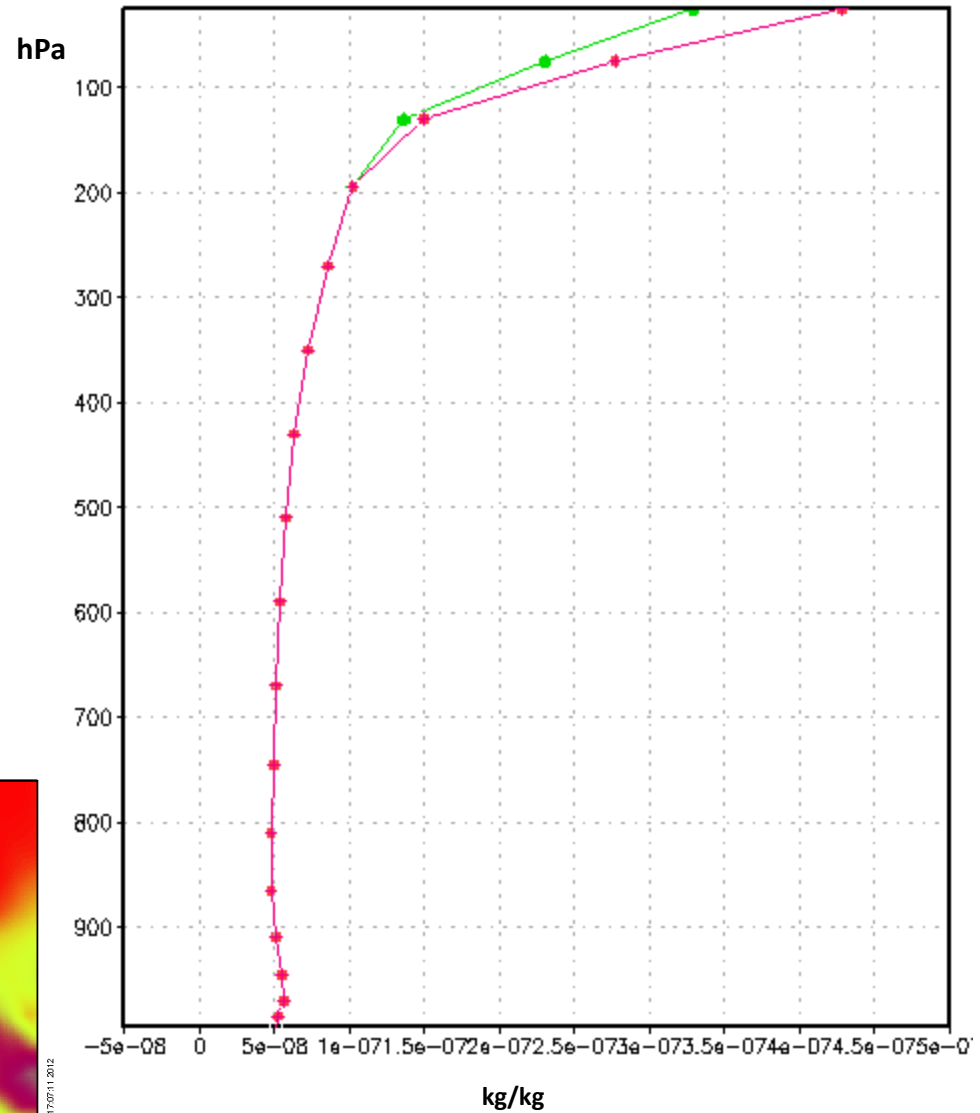
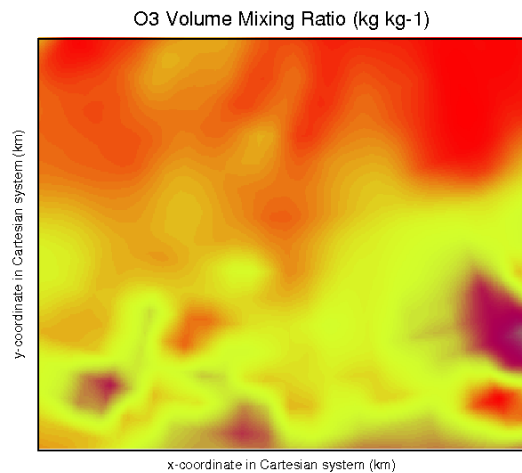
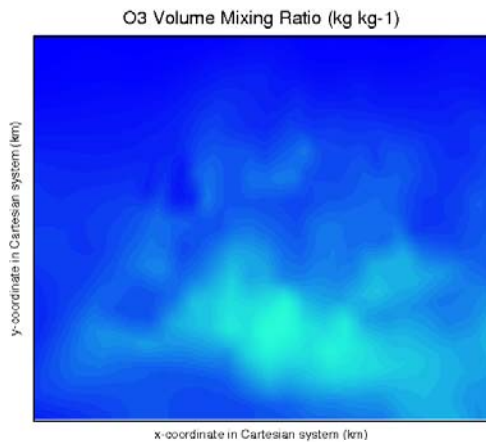
LBC : ERA-Interim

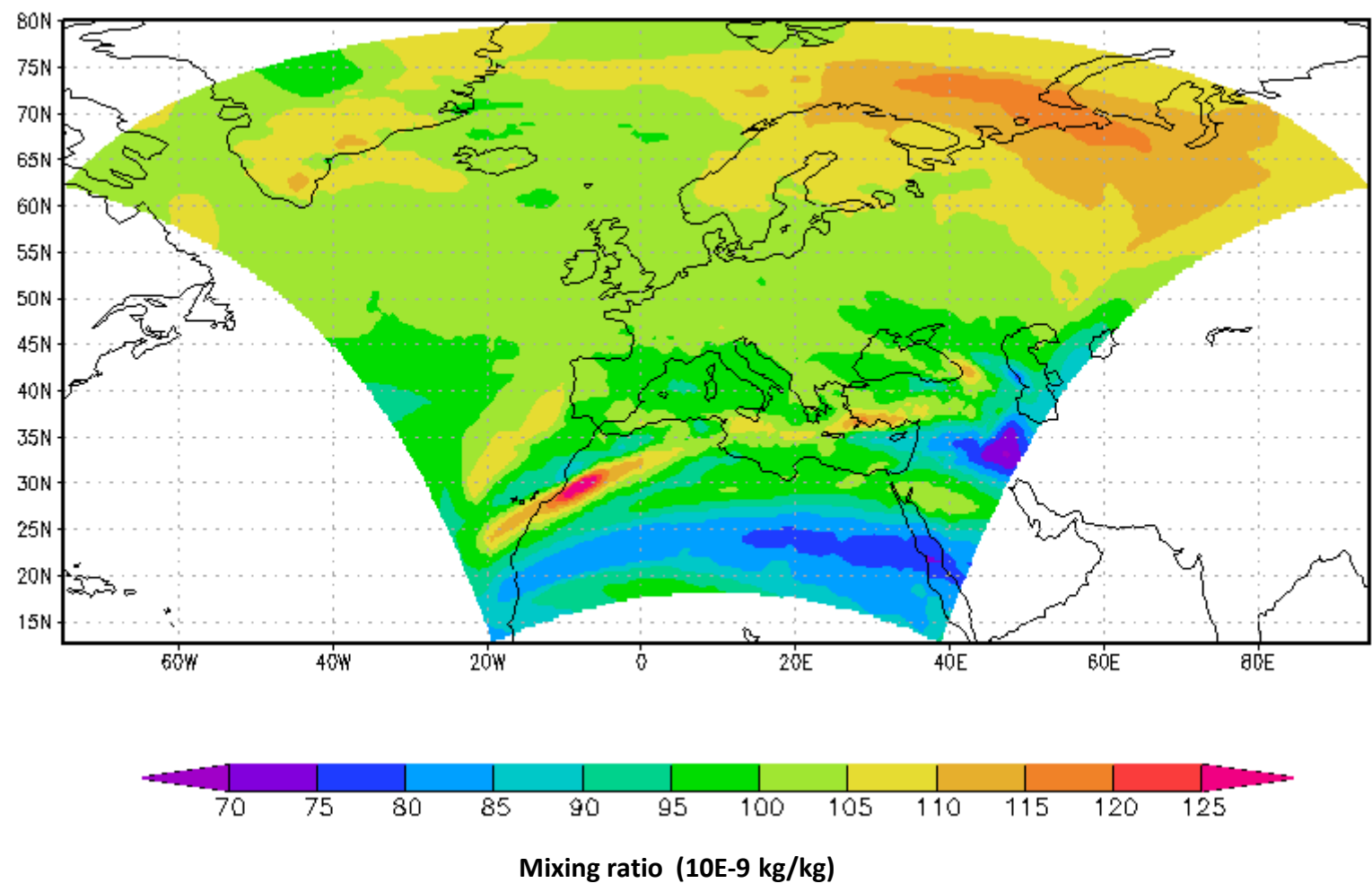
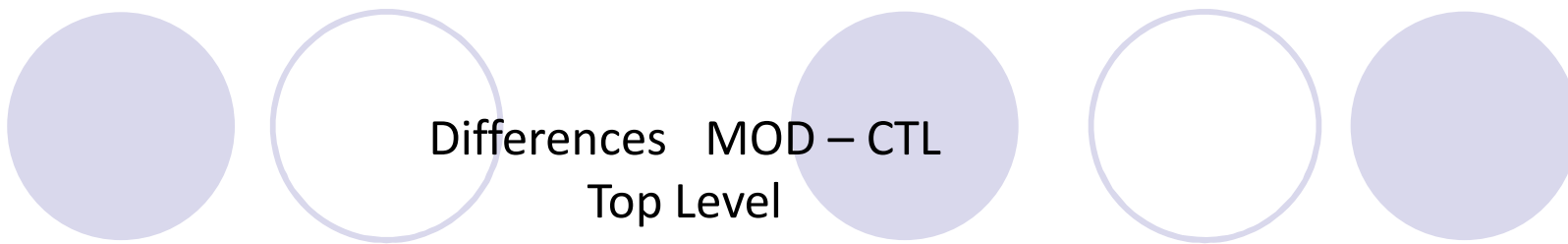
Chemistry : CBMZ , Emission: RCP26

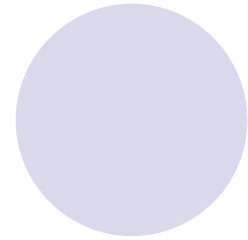
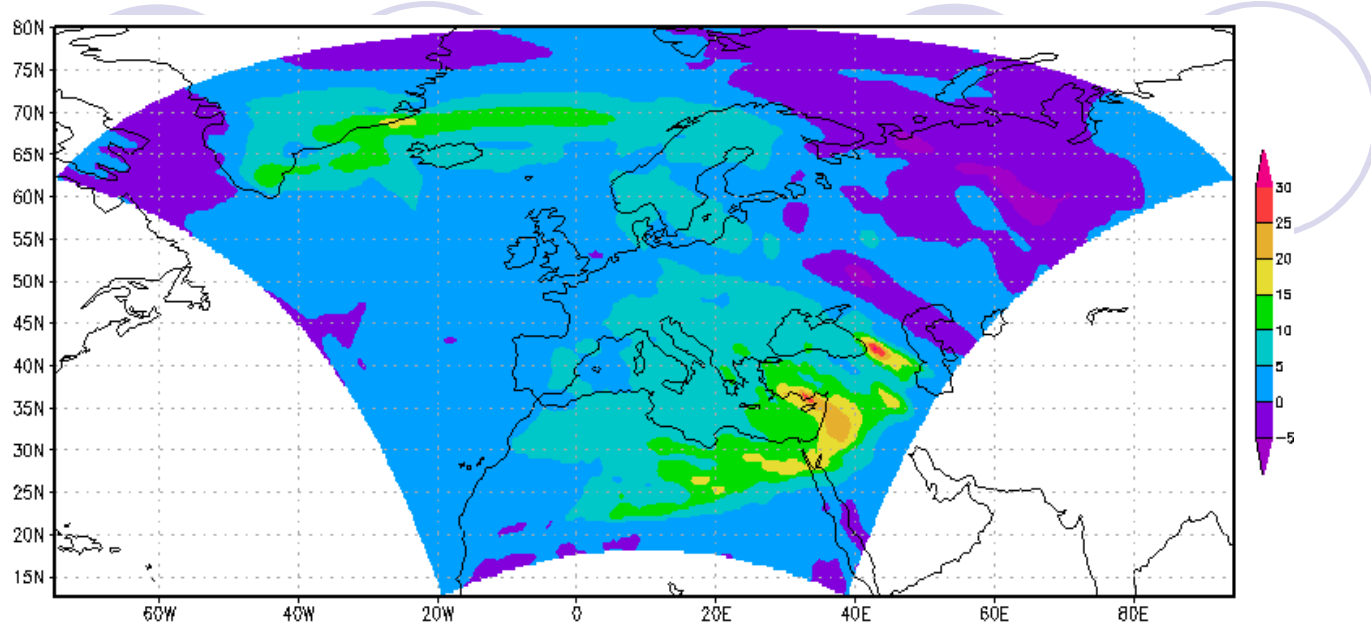


Experiment details

1. Control run (CTL)
CBMZ (standard ozone profile)
2. Modified run (MOD)
With modified ozone profile

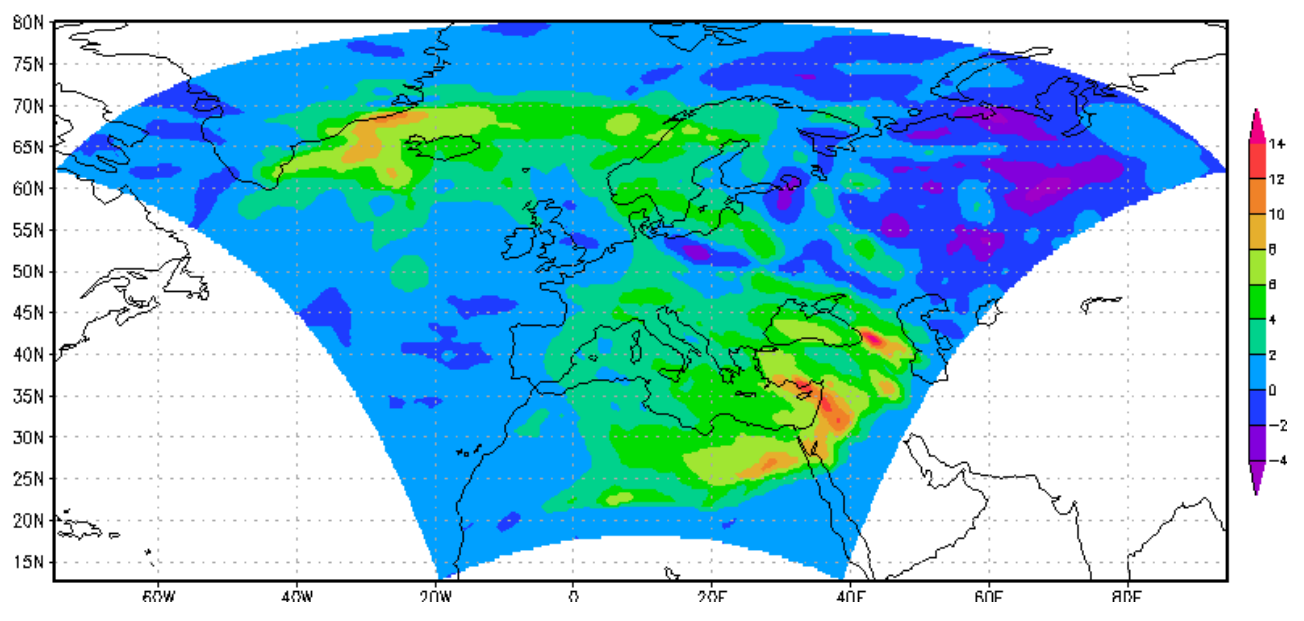






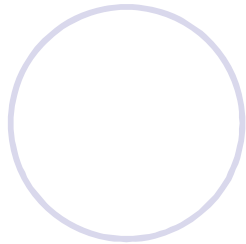
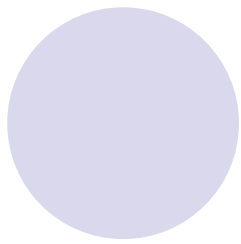
Level 15

~ 200hPa

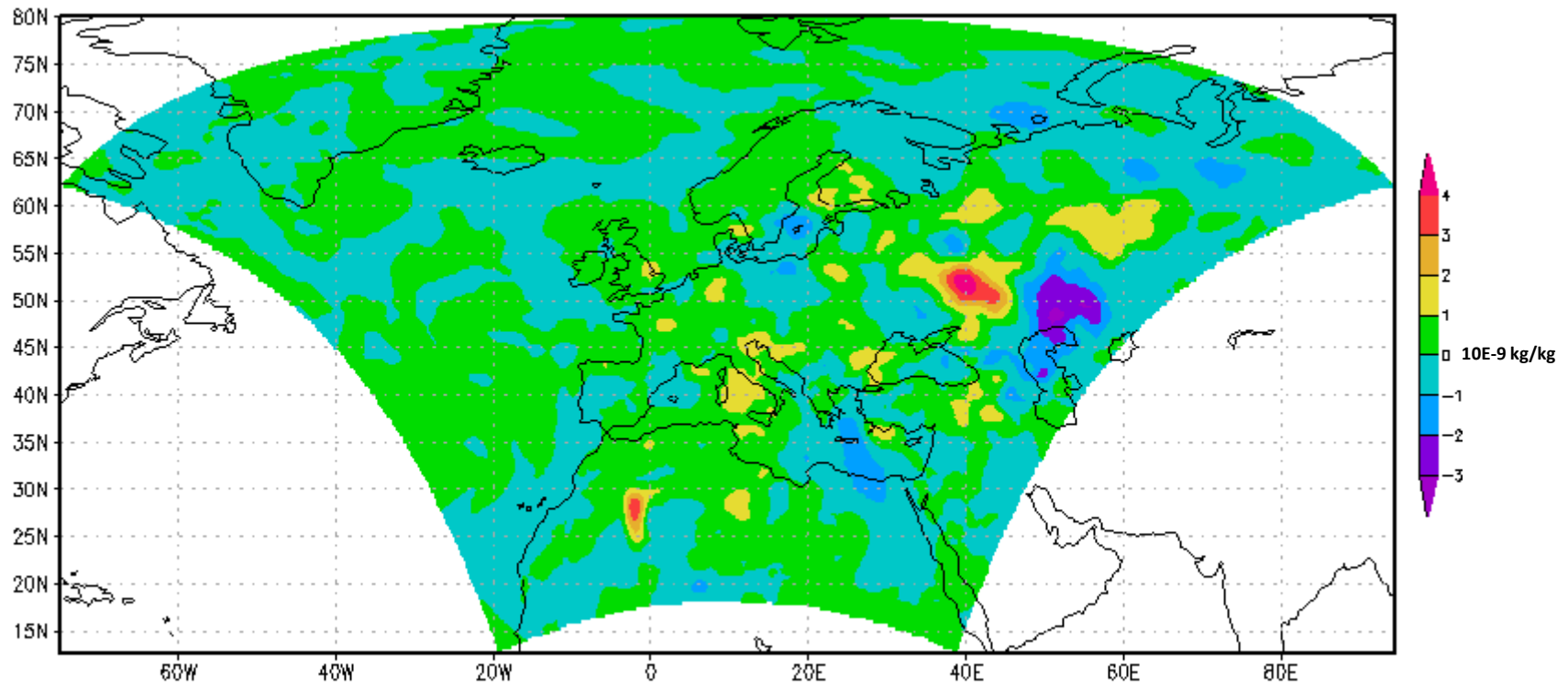
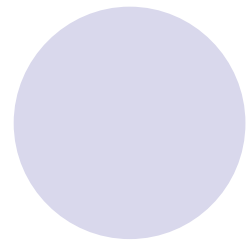
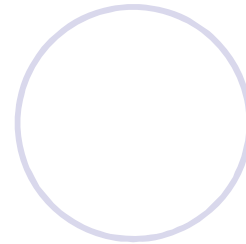
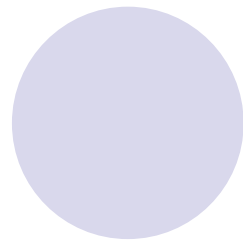


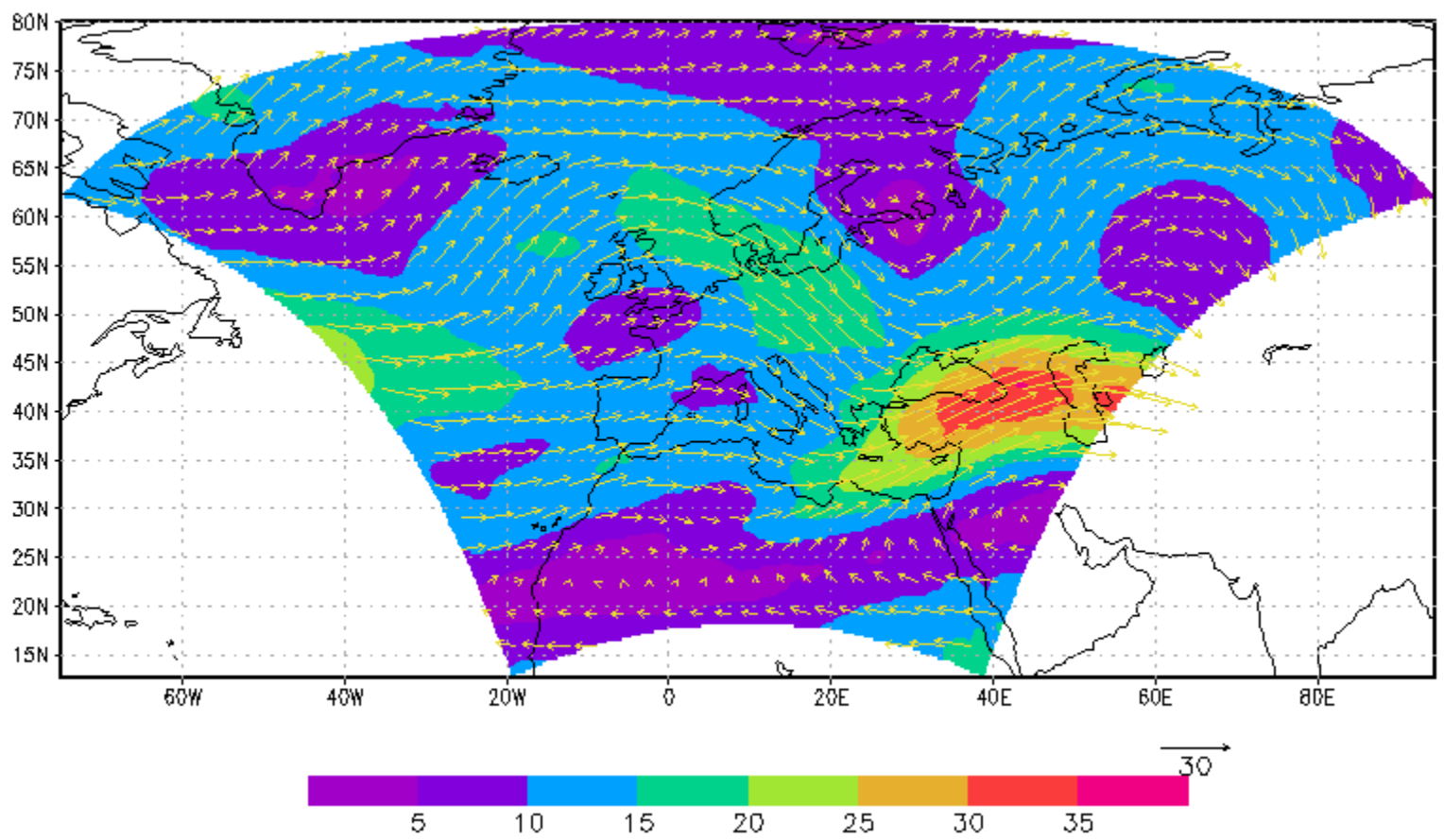
Level 14

~ 270hPa



Surface level







Thanks for your attention!