

EVALUATION OF THREE TROPOSPHERIC OZONE SIMULATIONS IN CATALONIA (NE of Spain)

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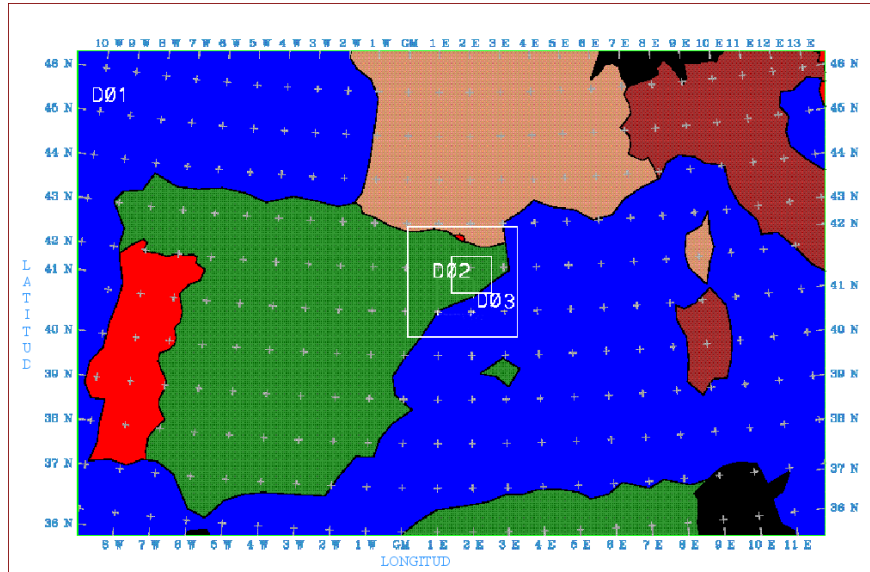
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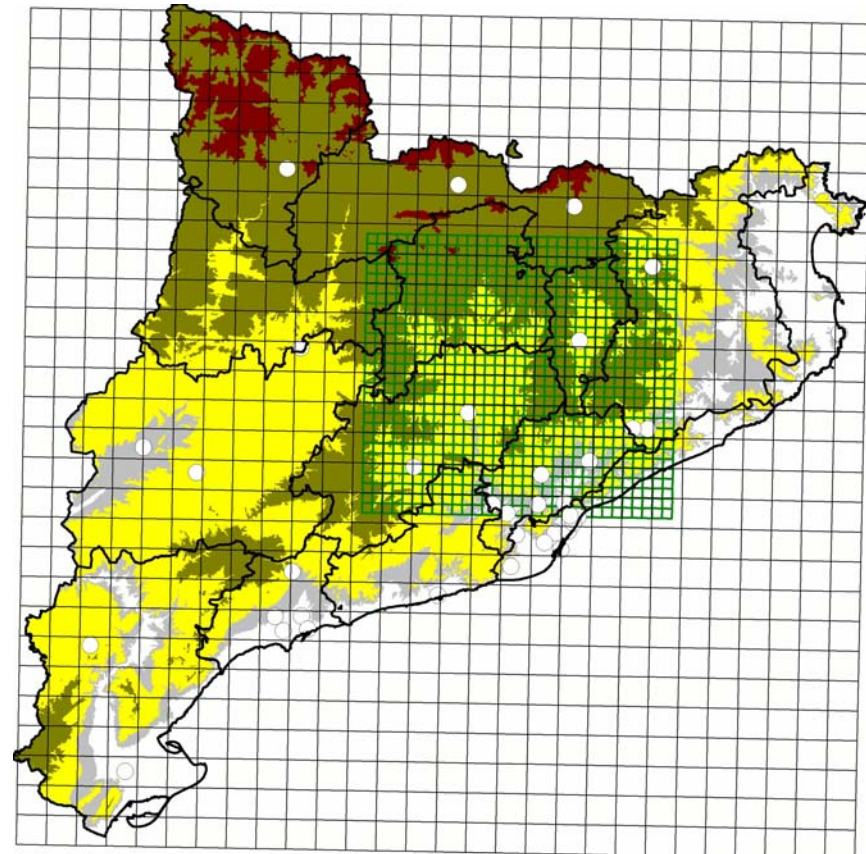
Domains



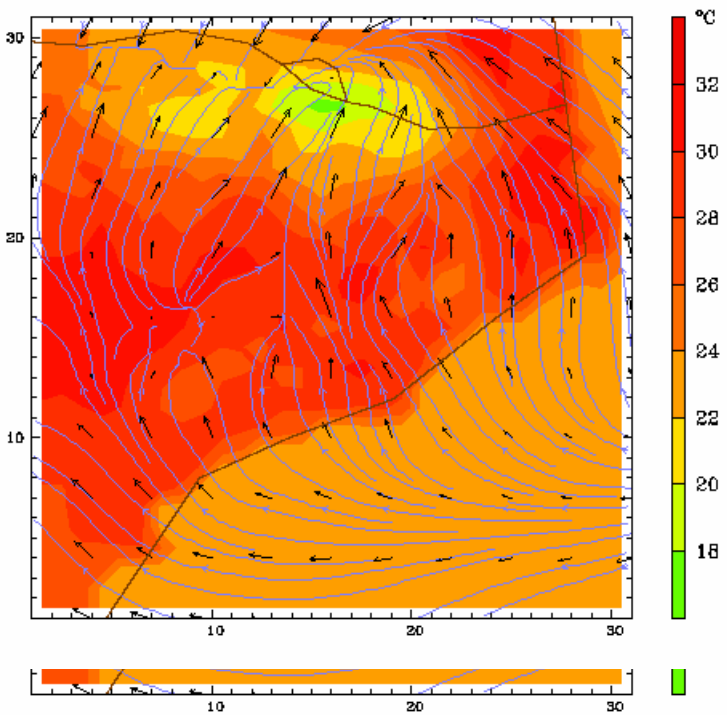
3 Domains 27, 9 & 3 km

AQM.cat:

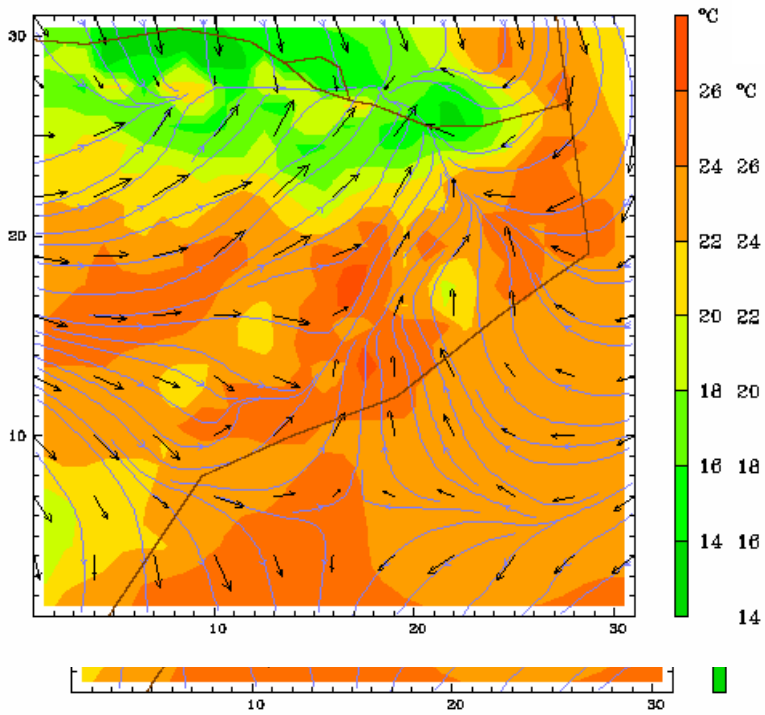
MM5, MECA, CMAQ



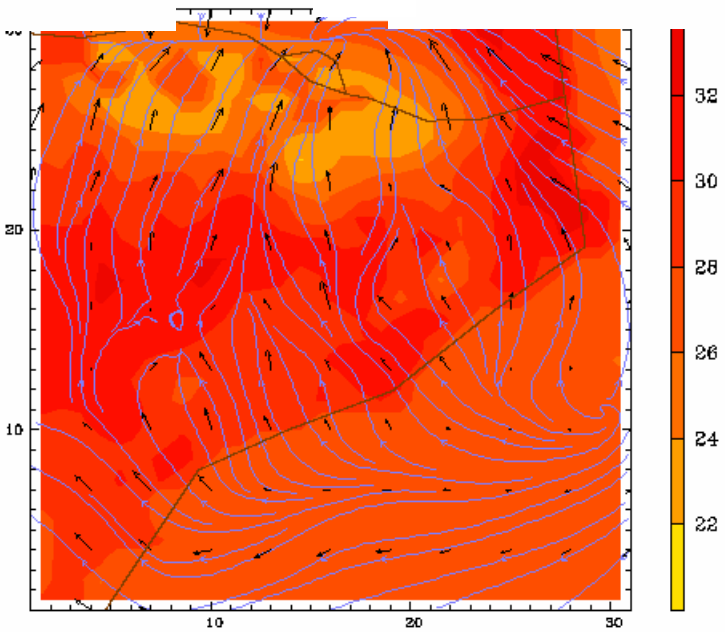
D2 2003/06/13 12UTC



D2 2003/07/03 12UTC



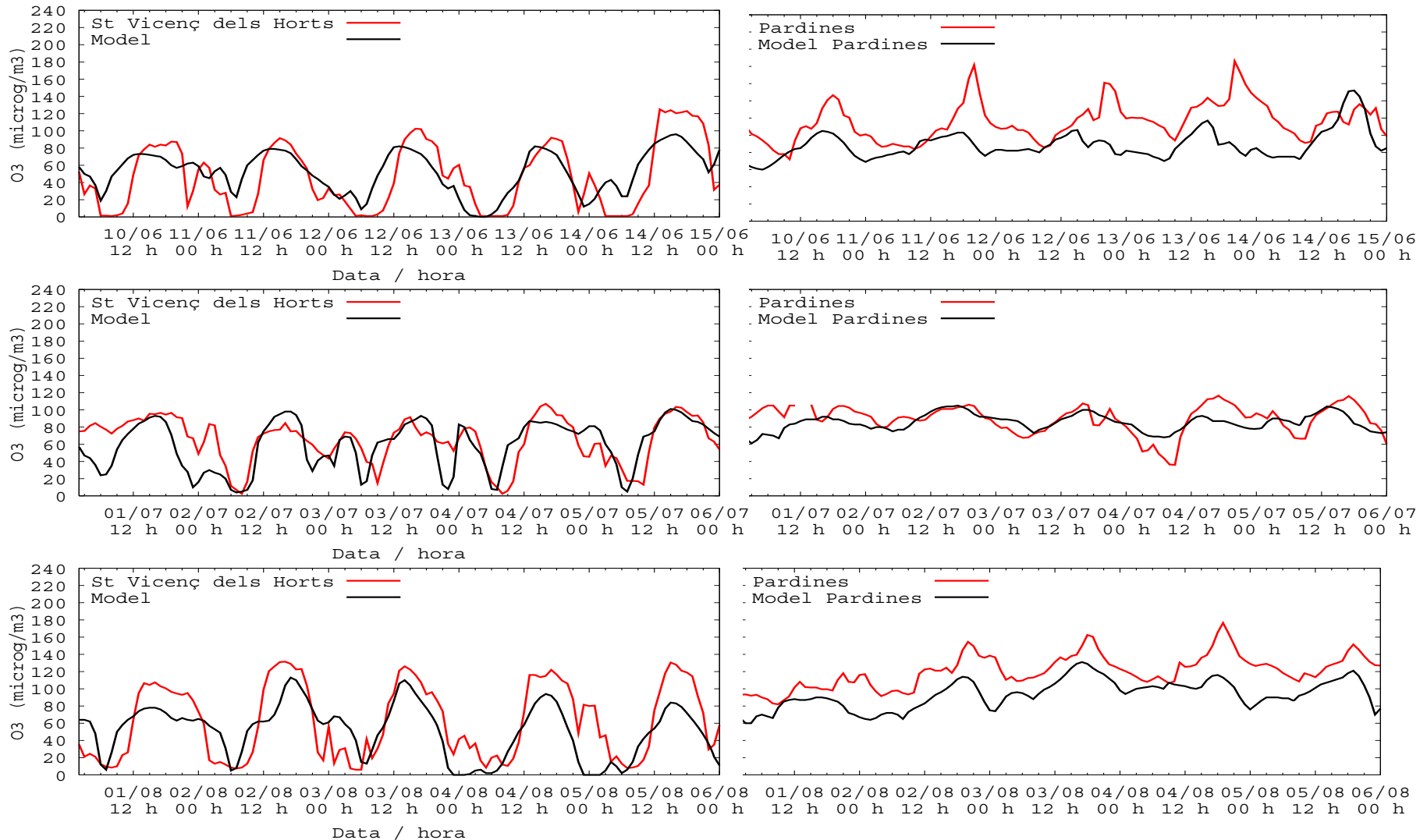
D2 2003/08/05 12UTC



EVALUATION

$\mu\text{g}/\text{m}^3$	D2	D2 60	D3	D3 60
N	10595	6122	4858	2230
M	73.5	85.2	52.2	71.8
O	68.8	96.1	58.4	95.0
MB	4.7	-11.0	-6.2	-22
MAGE	23.5	19.4	24.17	27
RMSE	29.2	25.1	31.0	34
NMB (%)	6.8	-11	-11	-23
NMAGE(%)	34	20	41	28

Comparison between model and measurements



Sensitivity study

$\mu\text{g}/\text{m}^3$	scenario2	BASE CASE	Scenario 2 60	BASECAS E 60
N	3421	3421	1718	1718
M	67.0	67.2	82.8	81.2
O	63.5	63.5	98.4	98.4
MB	3.5	3.7	-15.5	-17.2
MAGE	22.7	24.1	20.0	21.1
RMSE	28.7	30.1	26.6	28.1
NMB(%)	5.5	5.8	-15	-17
NMAGE(%)	36	38	20	21