Experiments with Alaro-0

Luc Gerard

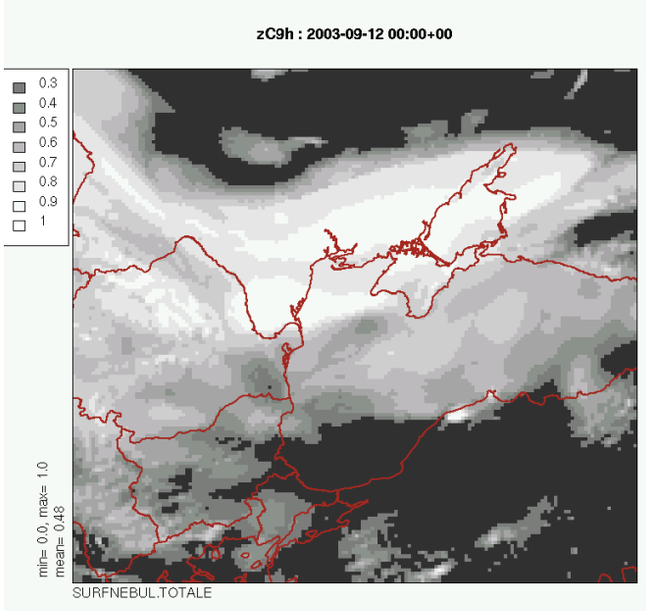
29 March 2007

Topics

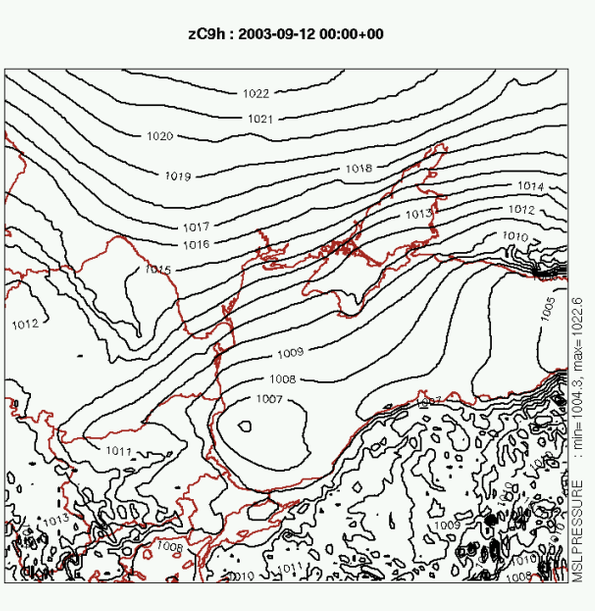
1. Black Sea Cyclone 12-13 September 2003
2. Convective case 10 September 2005
   ... continued...
3. Effect of binary optimization level

Tropical Cyclone on Black Sea

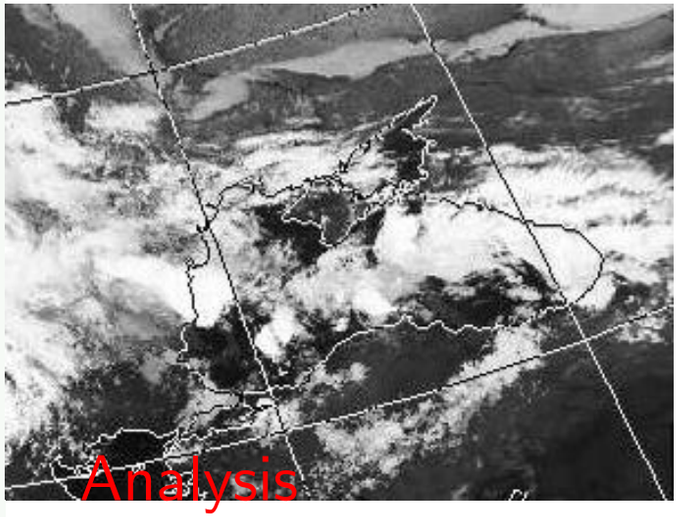
9 km



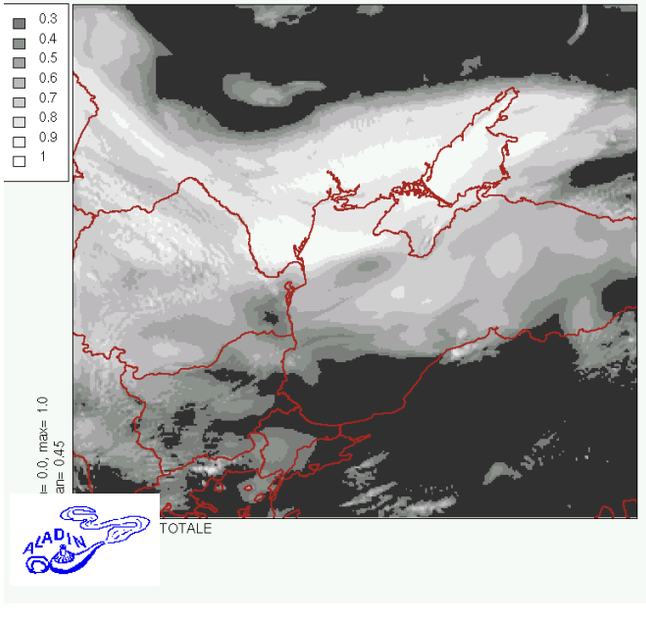
Alaro-0 Total Cloud

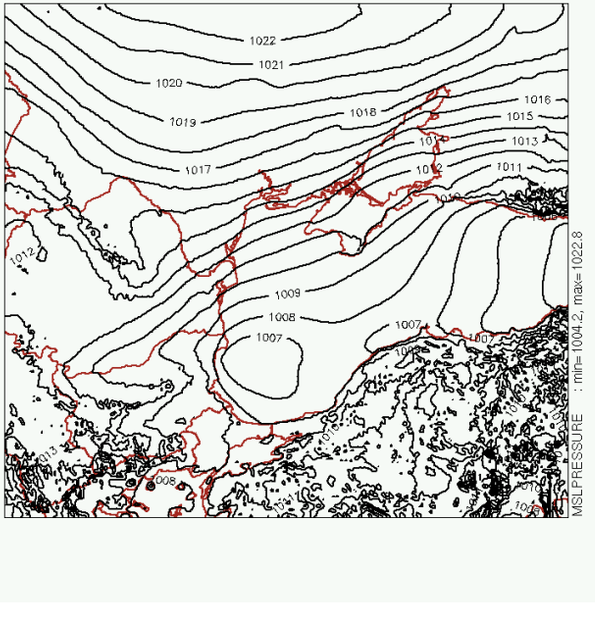


Alaro-0 msl pressure



4km





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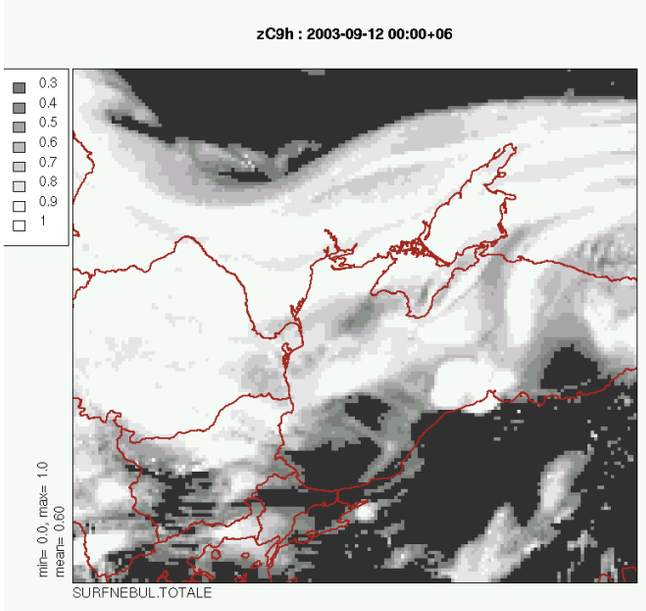
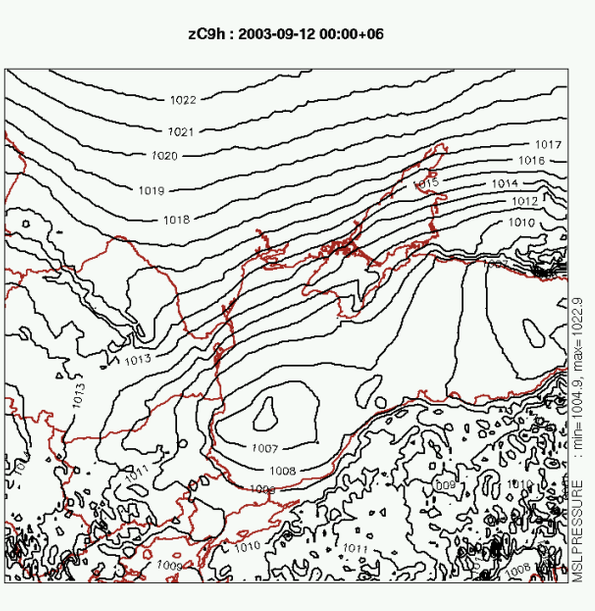
Tropical Cyclone on Black Sea

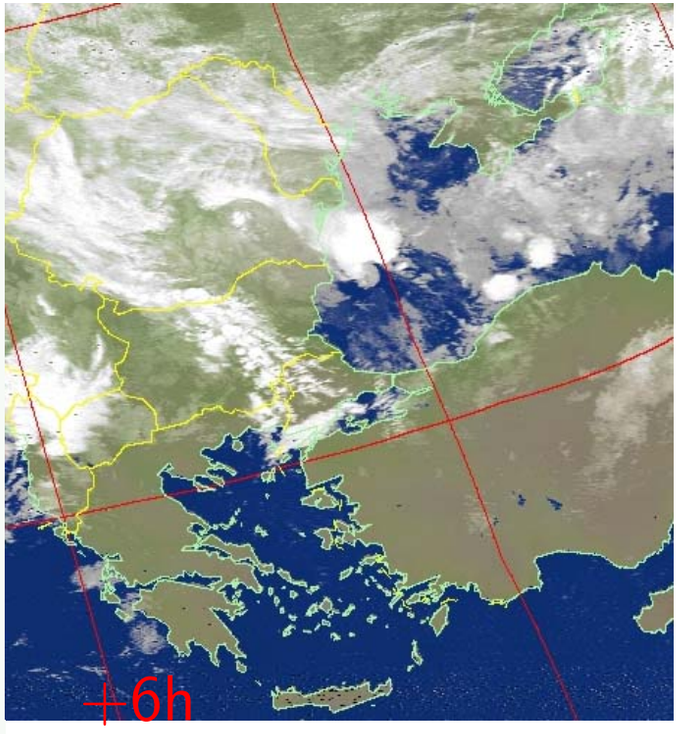
9 km



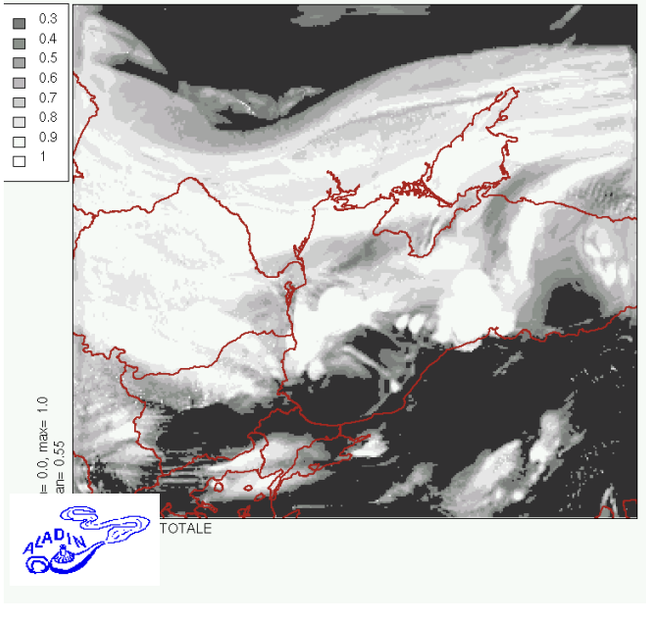
Alaro-0 Total Cloud

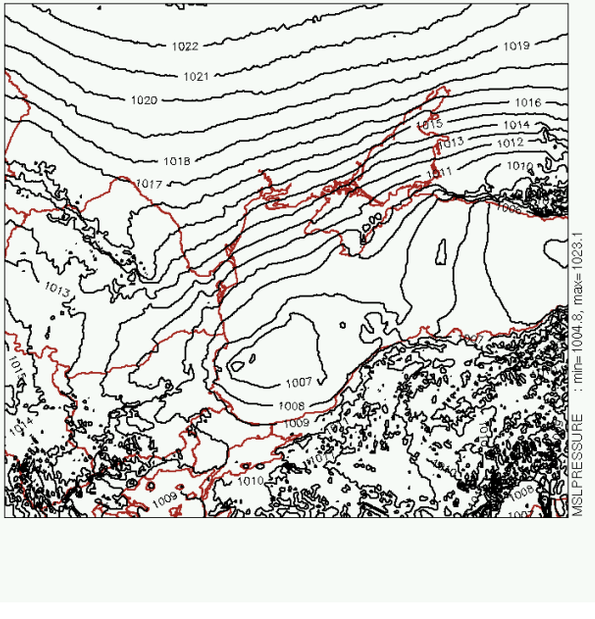


Alaro-0 msl pressure



4km





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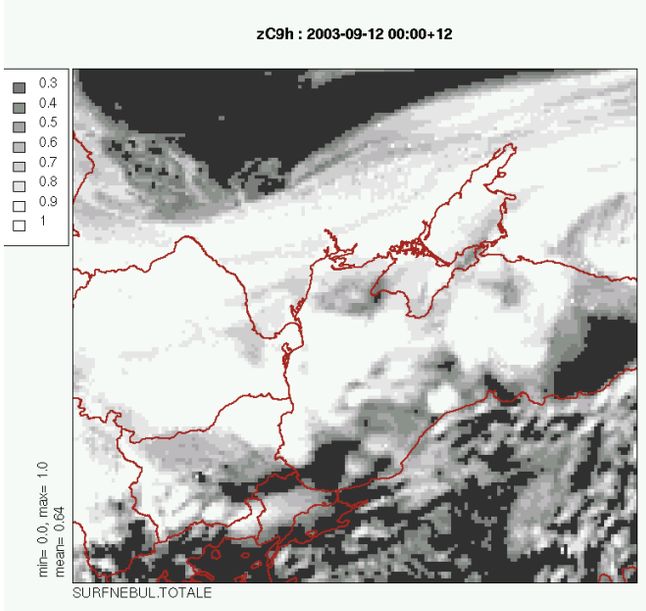
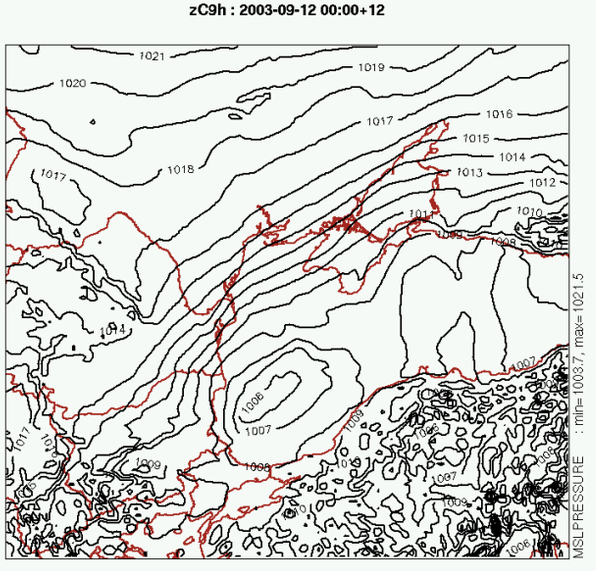
Tropical Cyclone on Black Sea

9 km



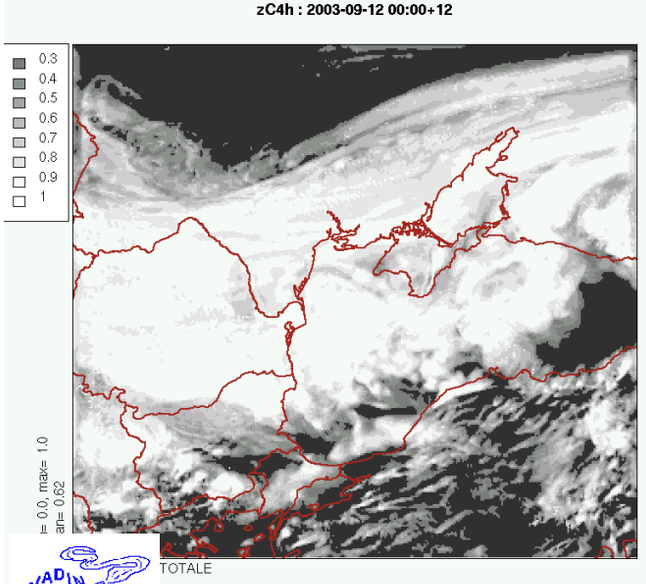


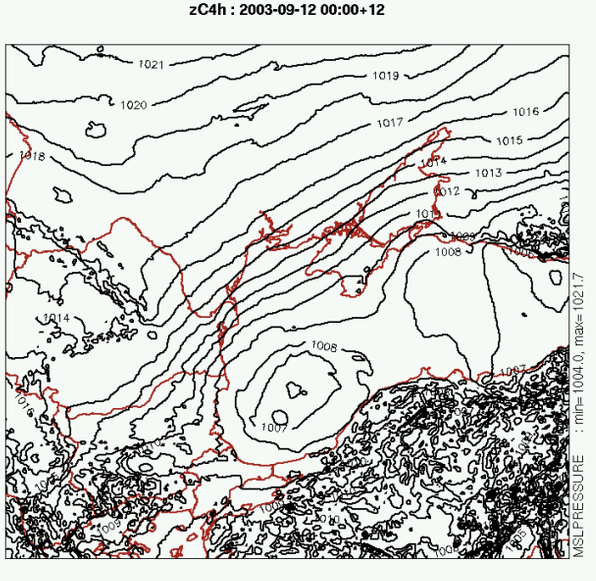
Alaro-0 Total Cloud

Alaro-0 msl pressure

+12h

4km





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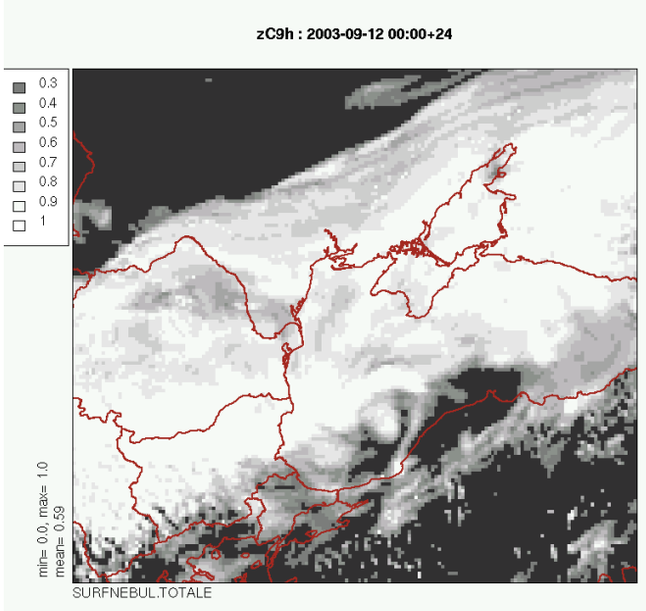
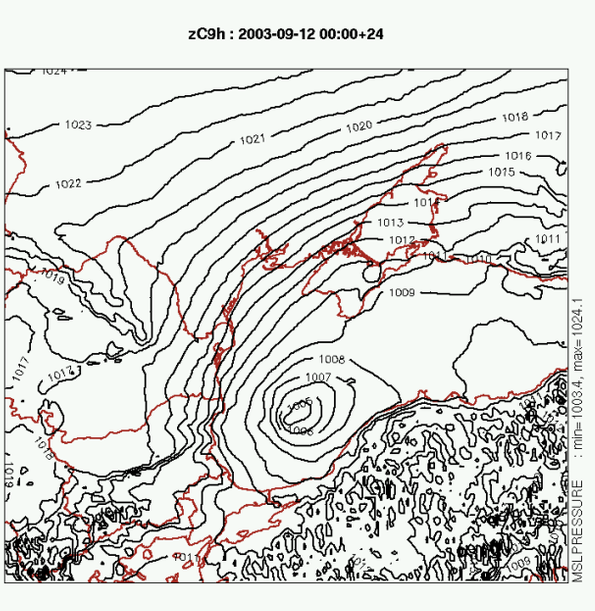
Tropical Cyclone on Black Sea

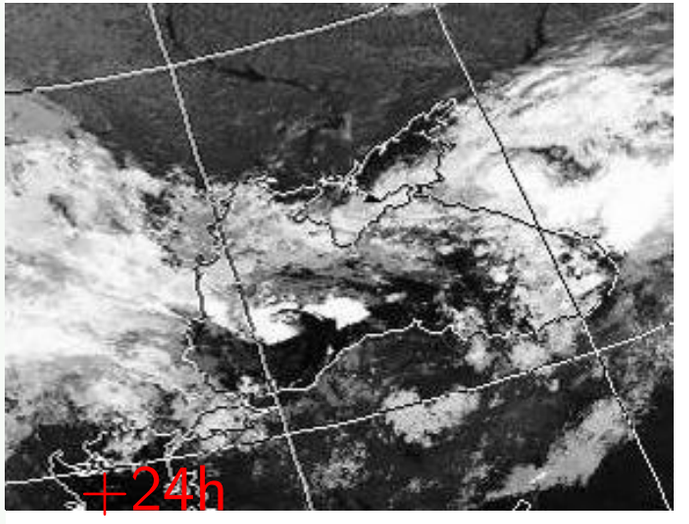
9 km



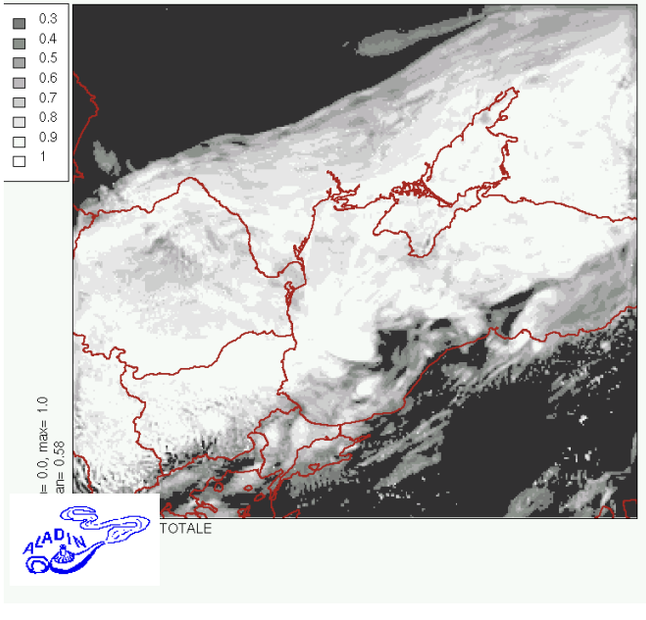
Alaro-0 Total Cloud

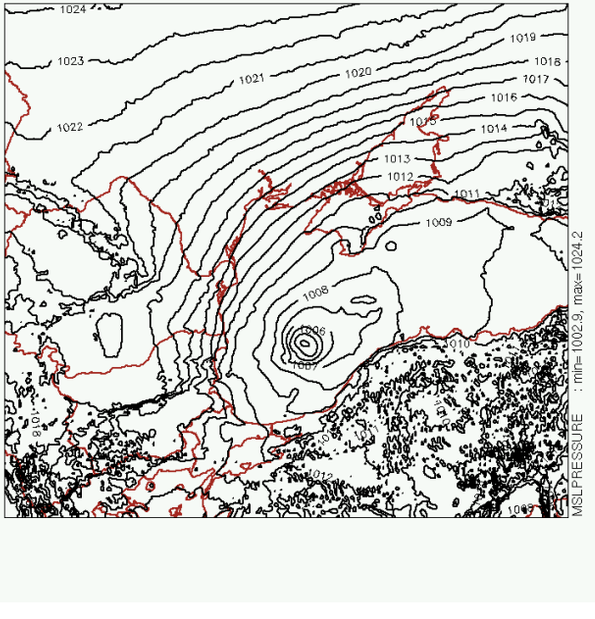


Alaro-0 msl pressure



4km





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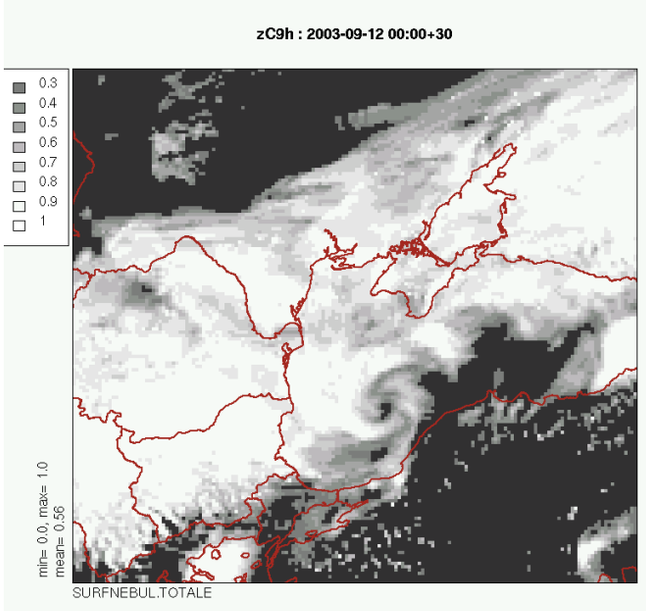
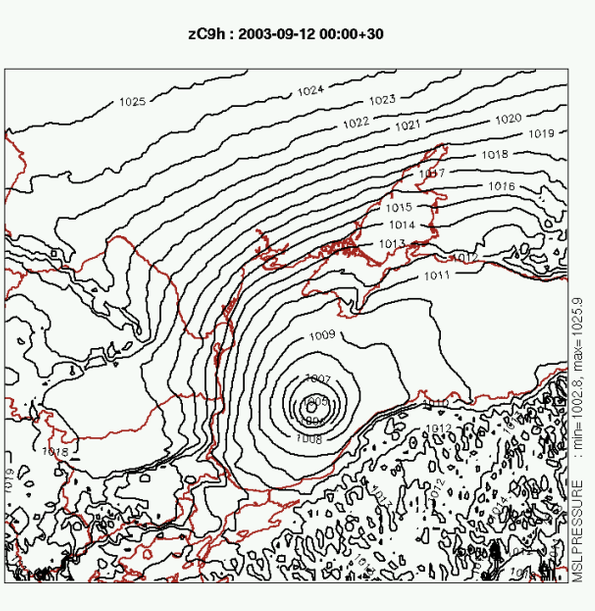
Tropical Cyclone on Black Sea

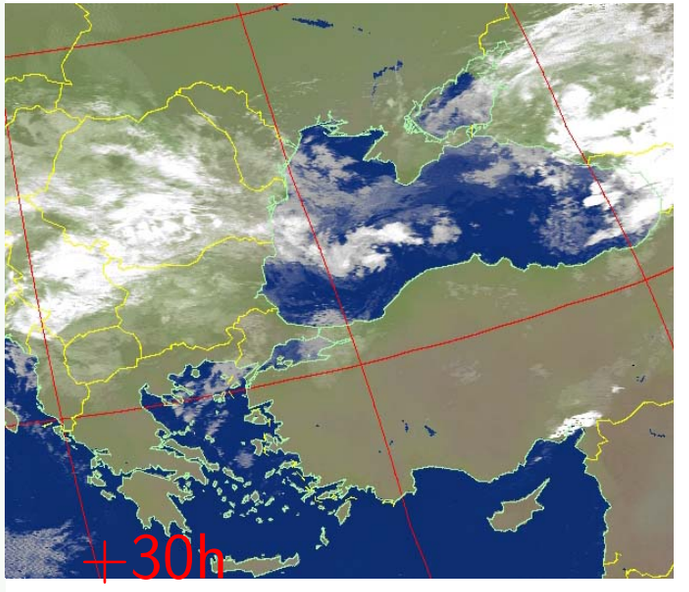
9 km



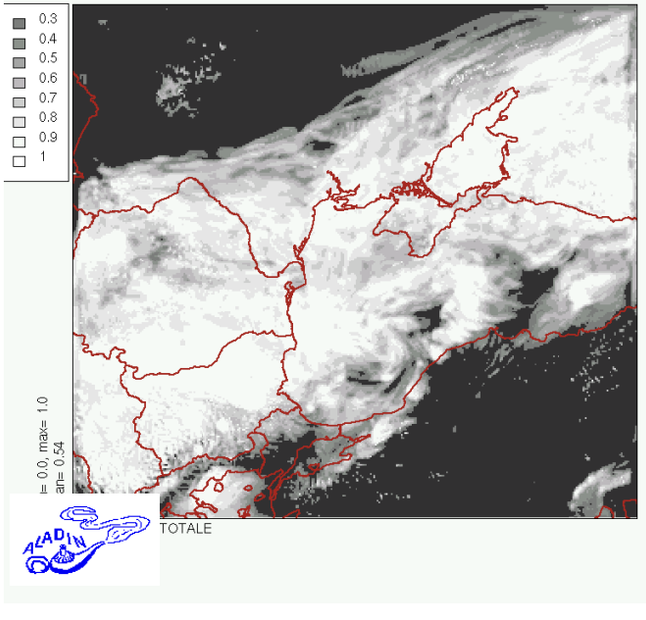
Alaro-0 Total Cloud

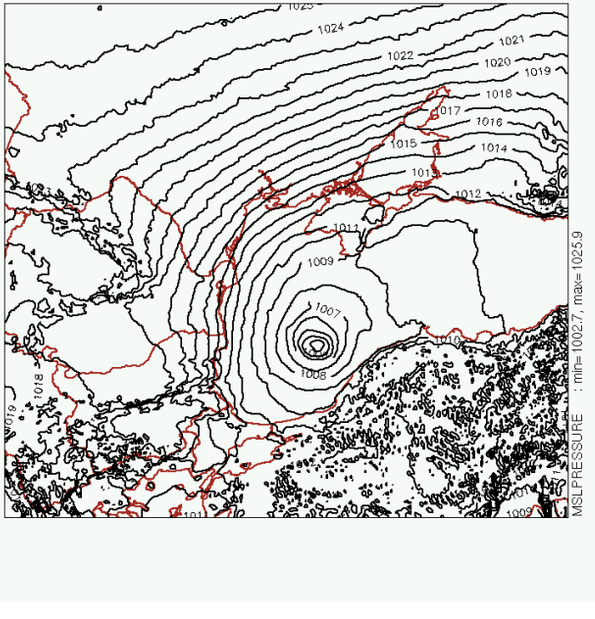


Alaro-0 msl pressure



4km





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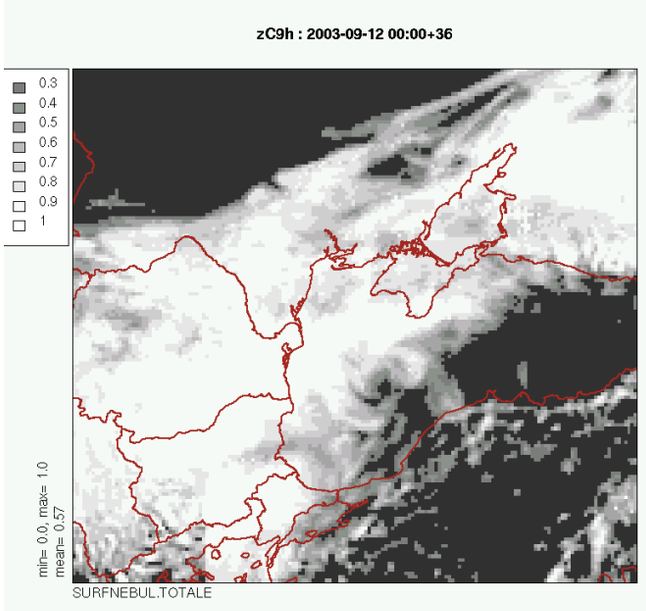
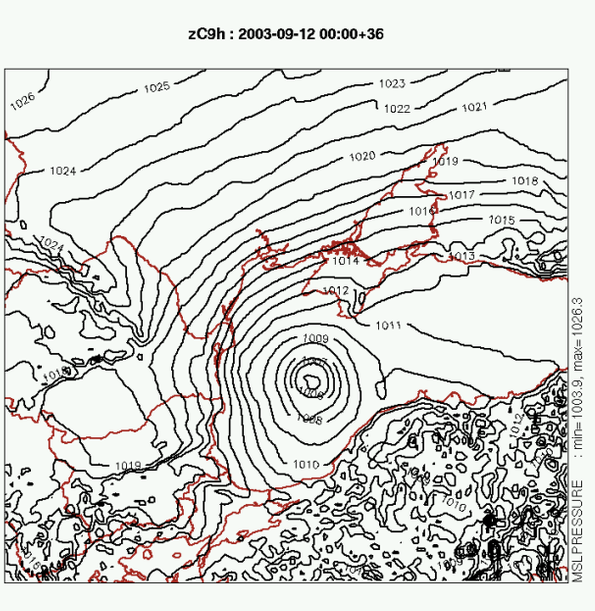
Tropical Cyclone on Black Sea

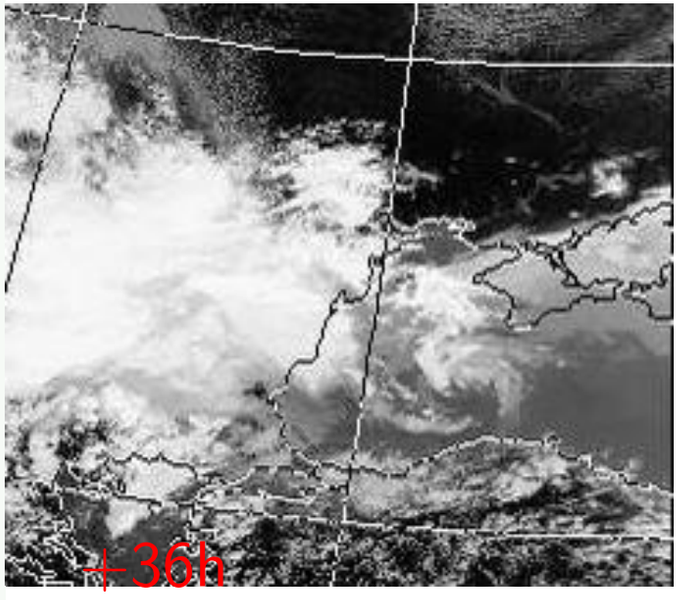
9 km



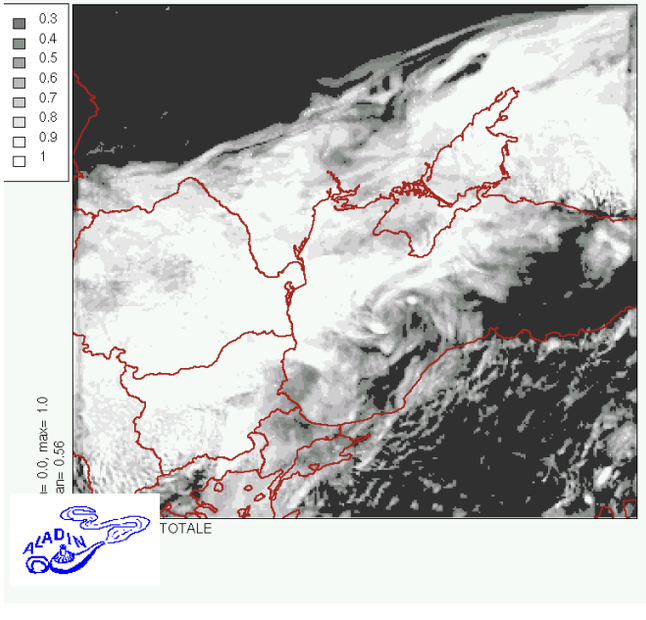
Alaro-0 Total Cloud

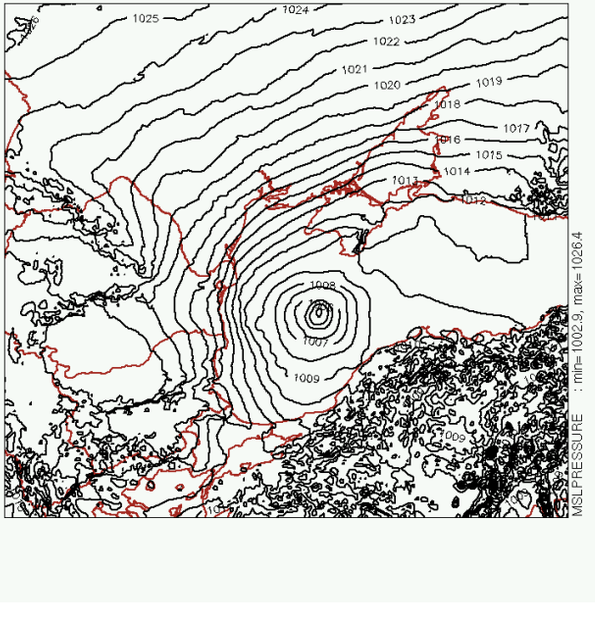


Alaro-0 msl pressure



4km





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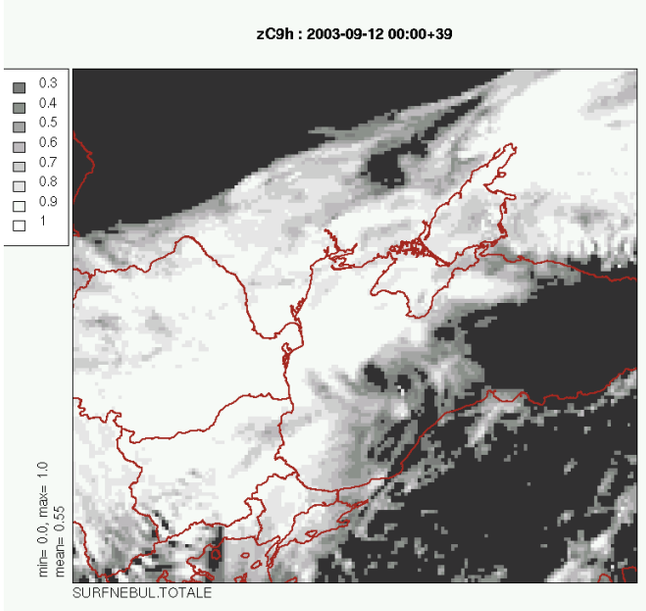
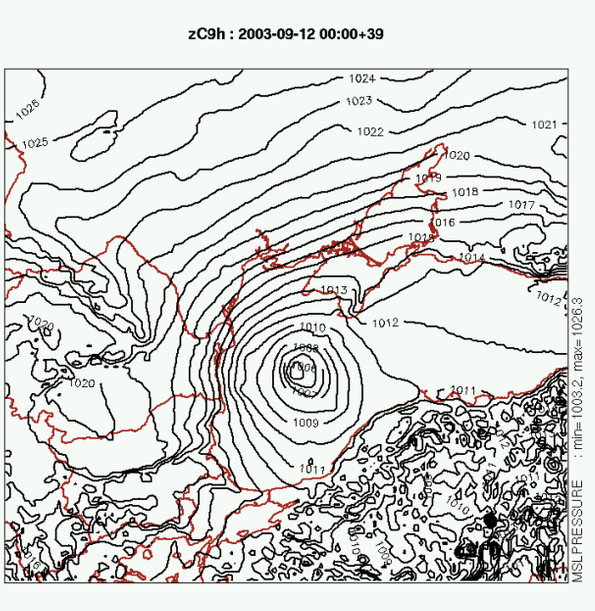
Tropical Cyclone on Black Sea

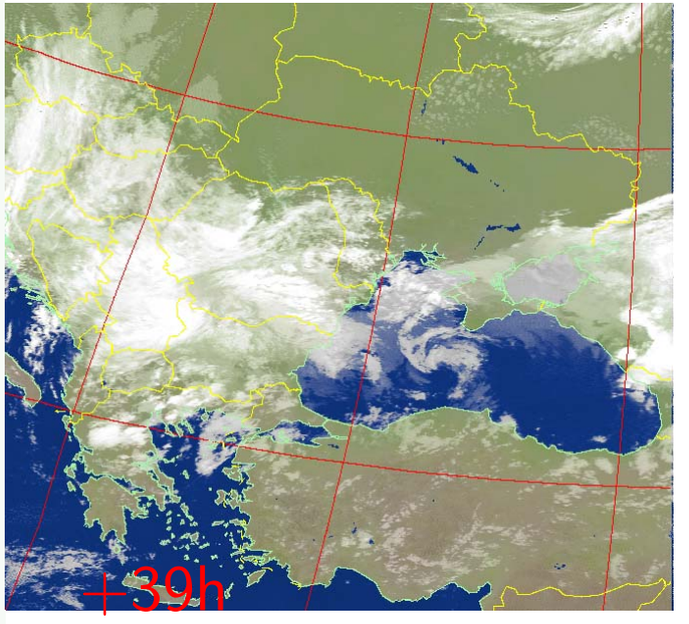
9 km



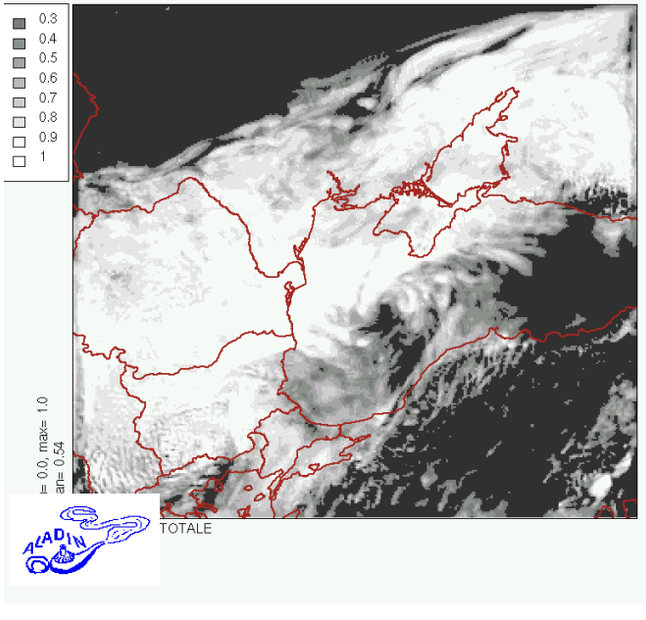
Alaro-0 Total Cloud

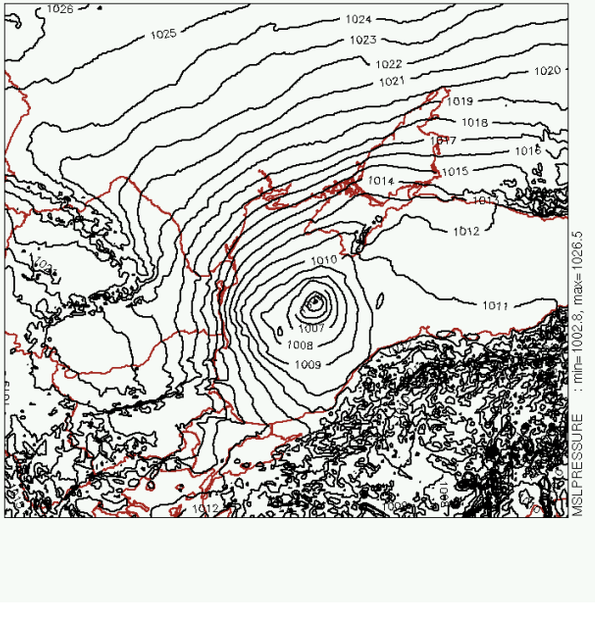


Alaro-0 msl pressure



4km





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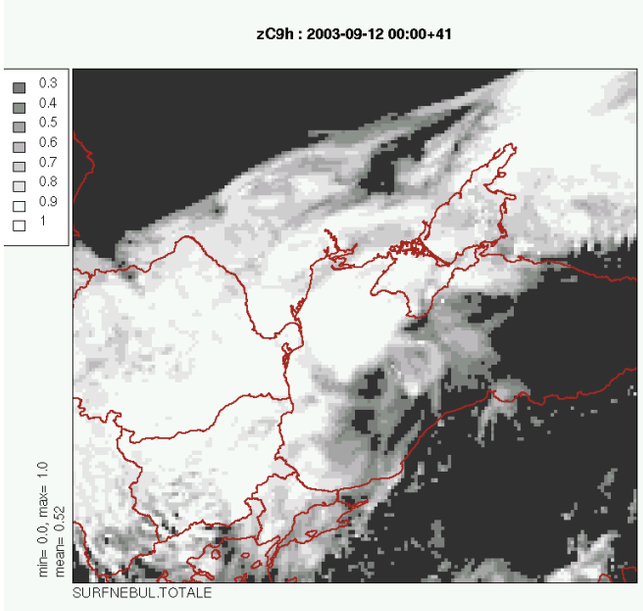
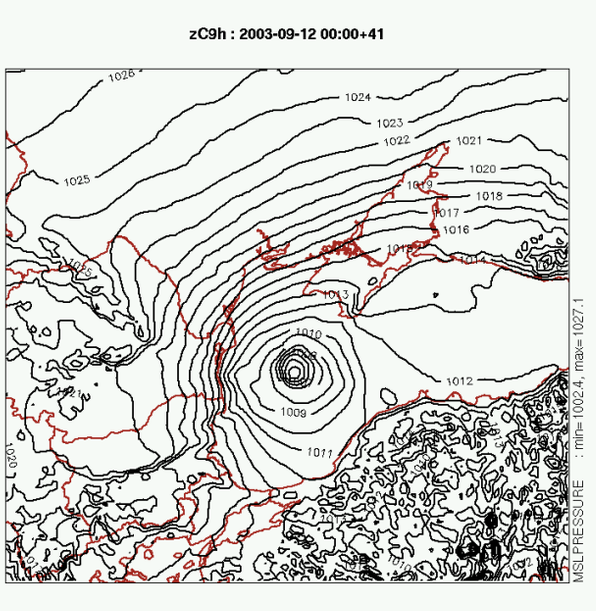
Tropical Cyclone on Black Sea

9 km



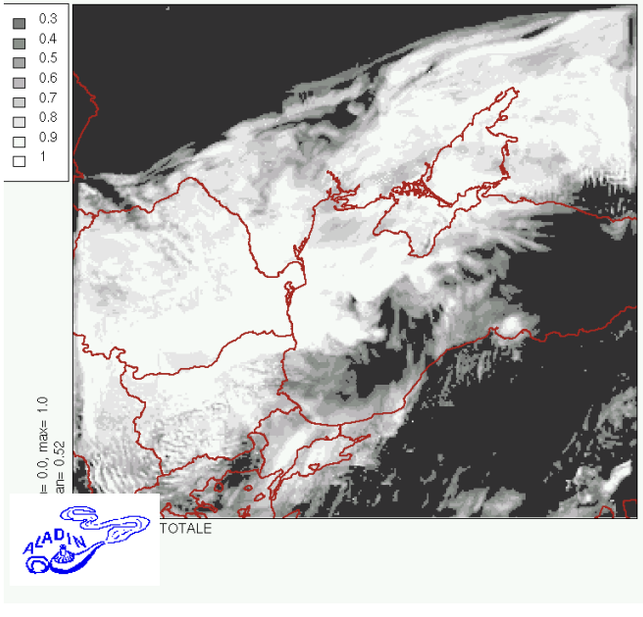


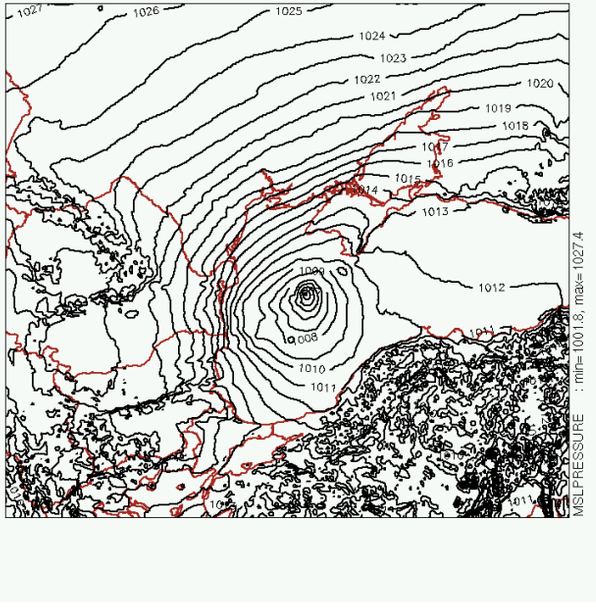
Alaro-0 Total Cloud

Alaro-0 msl pressure

+41h

4km





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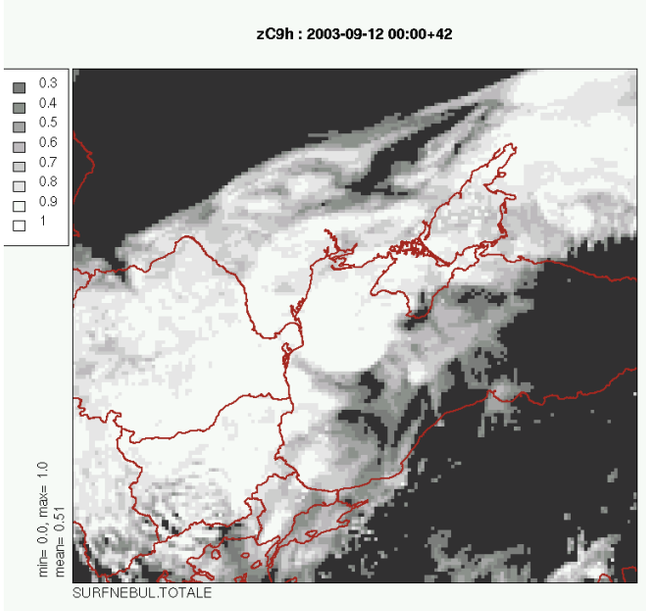
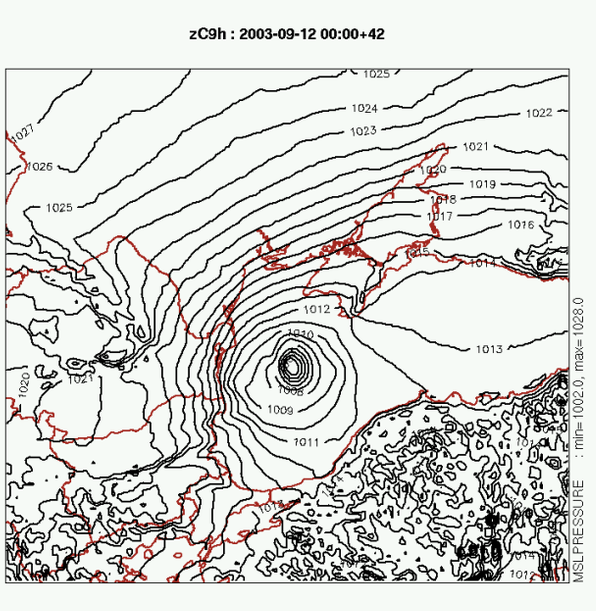
Tropical Cyclone on Black Sea

9 km



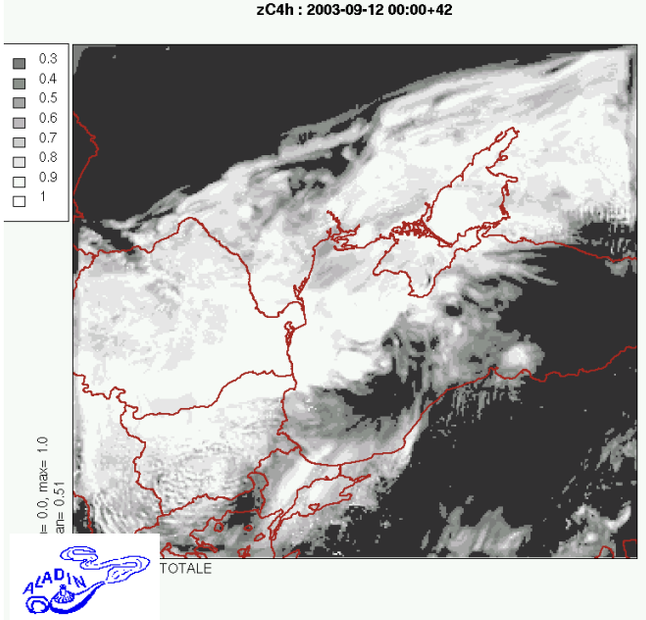


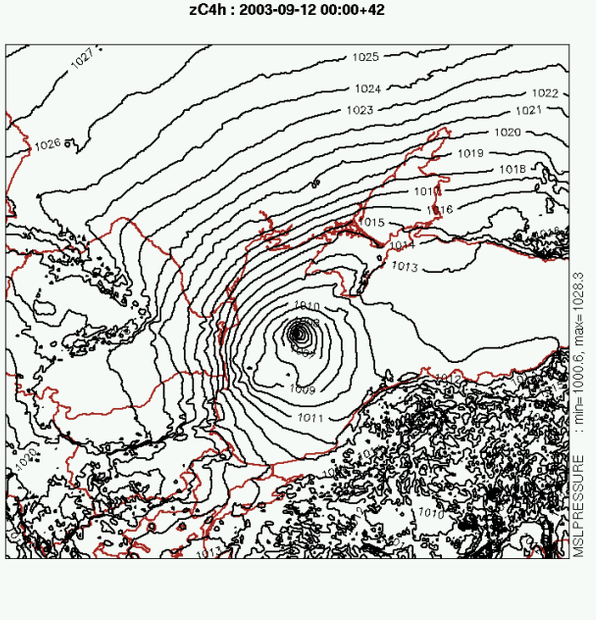
Alaro-0 Total Cloud

Alaro-0 msl pressure

+42h

4km





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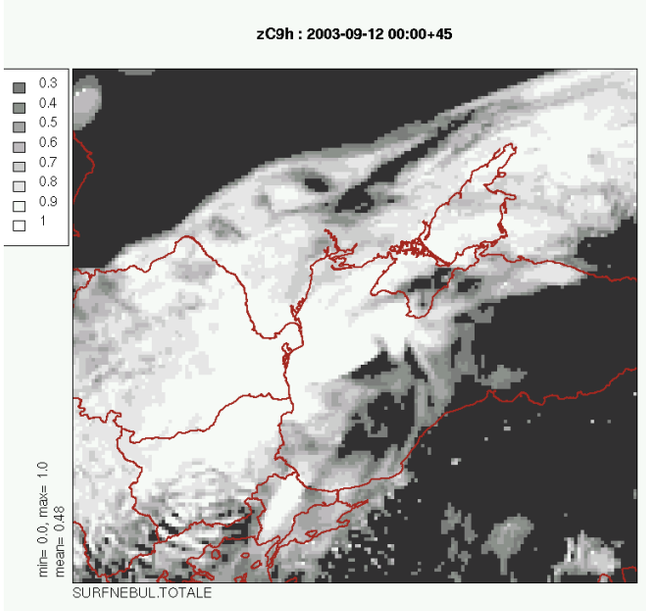
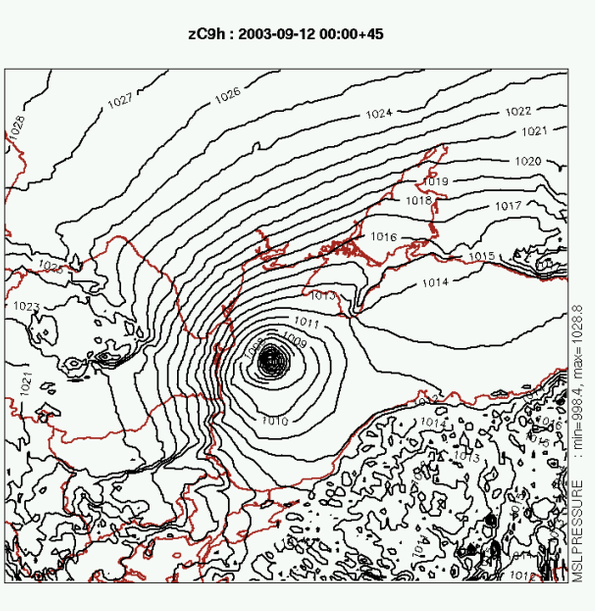
Tropical Cyclone on Black Sea

9 km



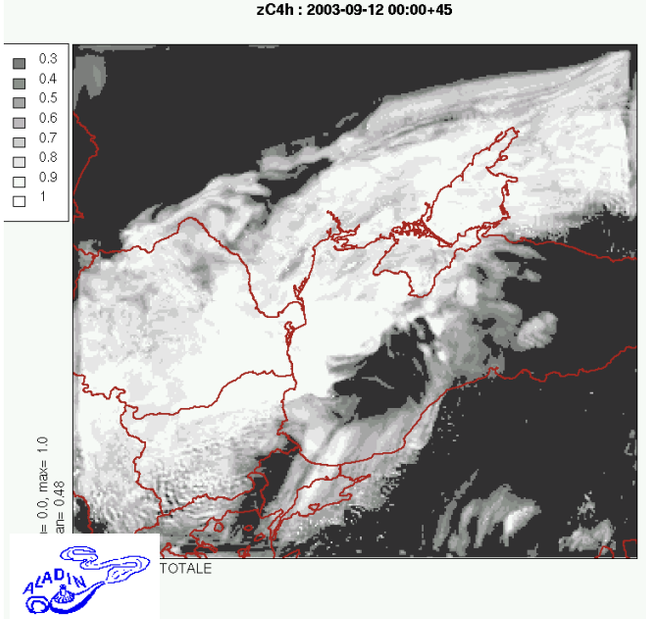


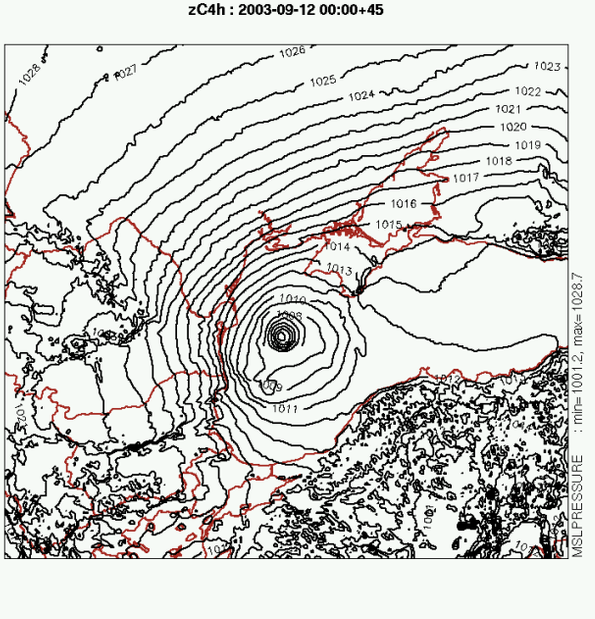
Alaro-0 Total Cloud

Alaro-0 msl pressure

+45h

4km





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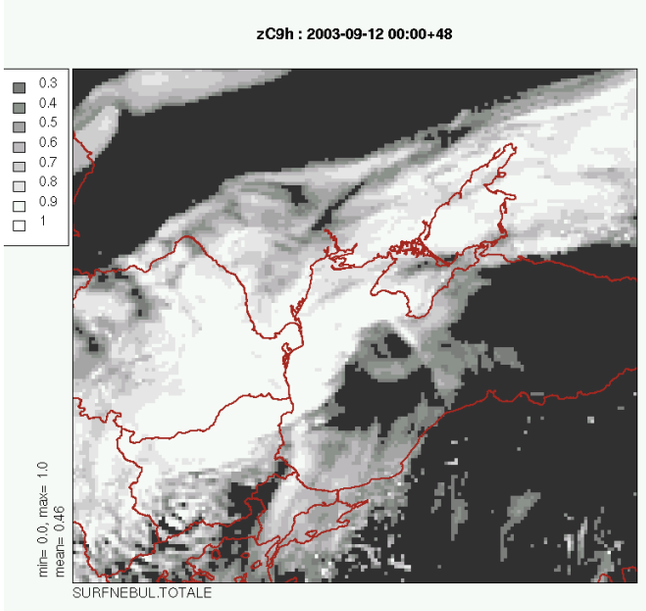
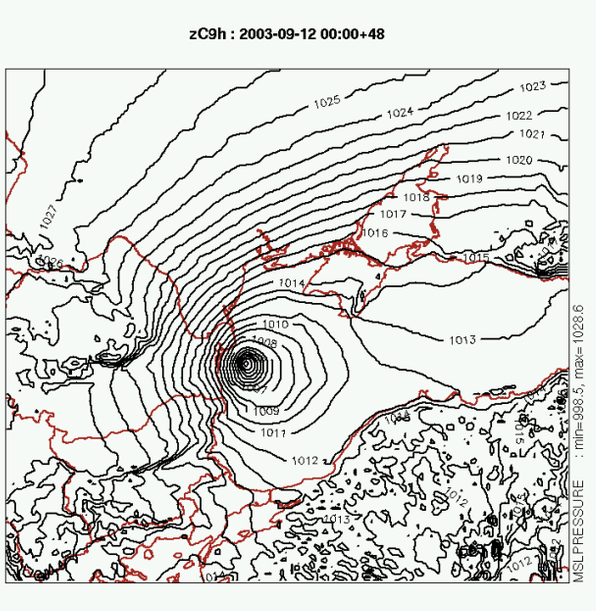
Tropical Cyclone on Black Sea

9 km



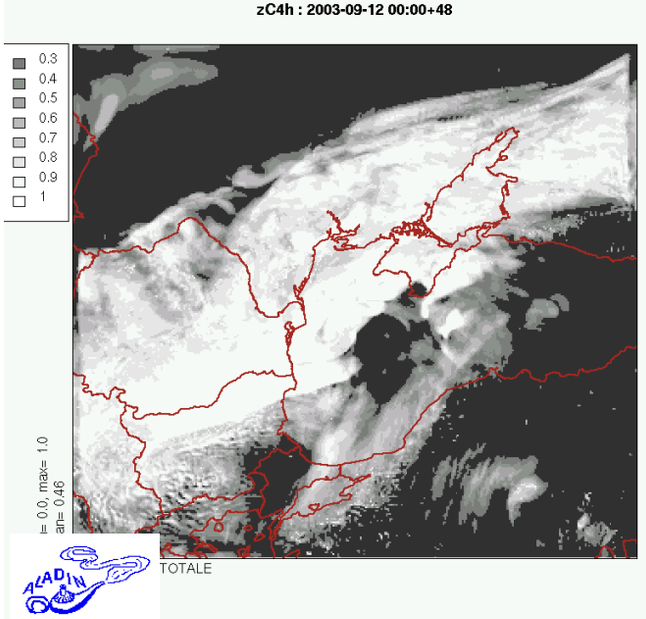


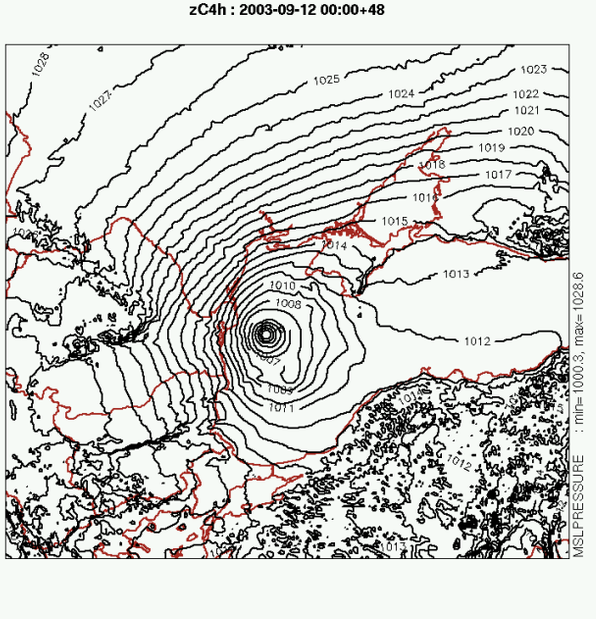
Alaro-0 Total Cloud

Alaro-0 msl pressure

+48h

4km





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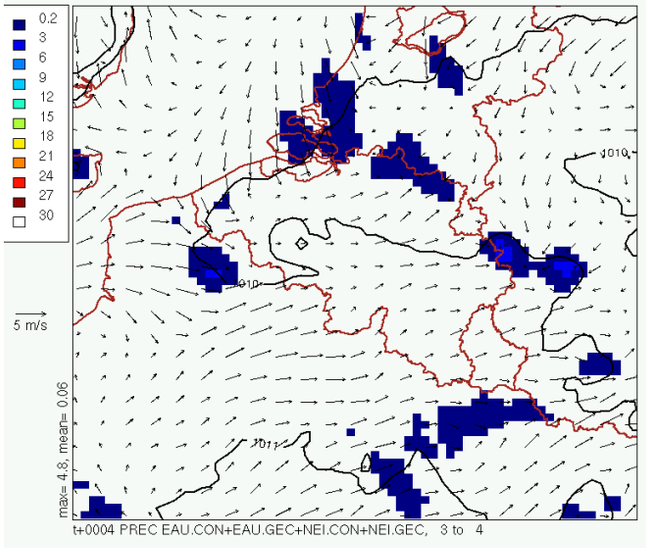
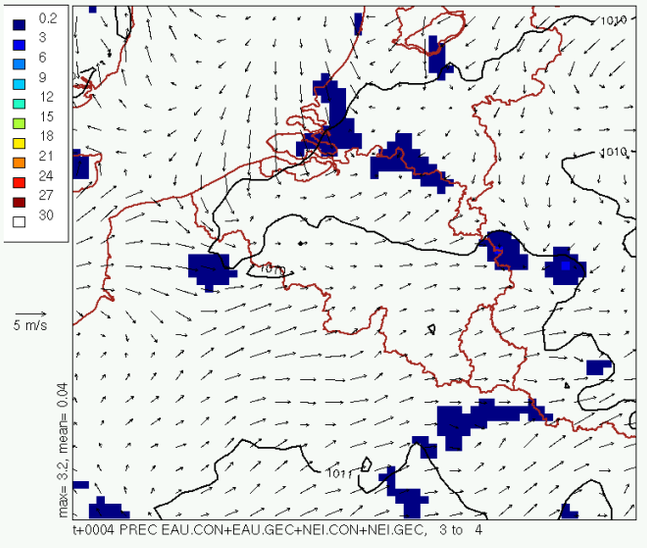
Thunderstorms on Saturday 10 September 2005

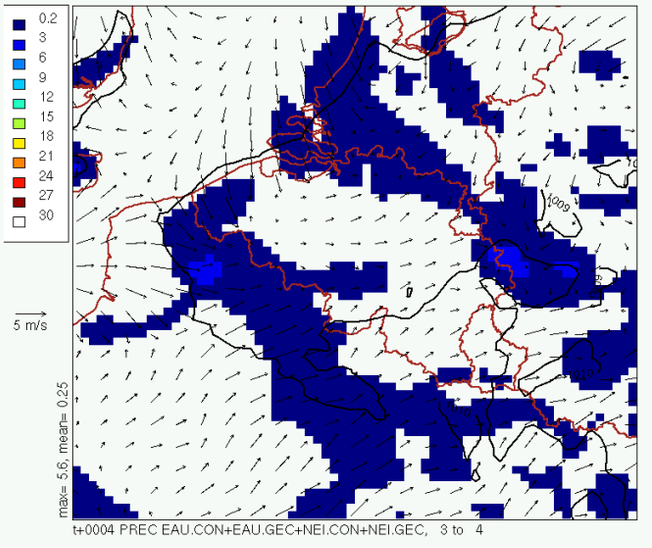
7 km



Alaro-0 LUDEN=F

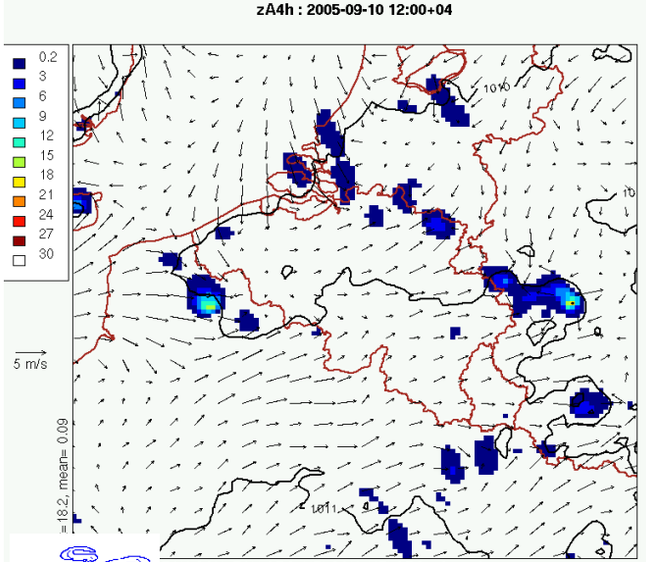


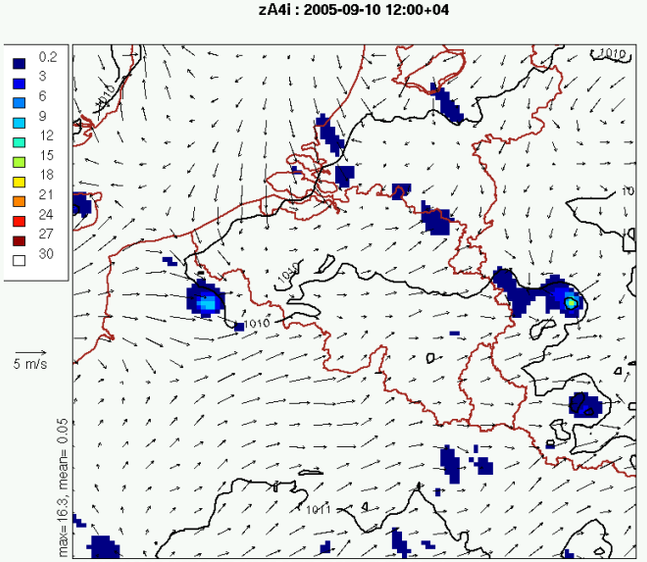
Alaro-0 LUDEN=T

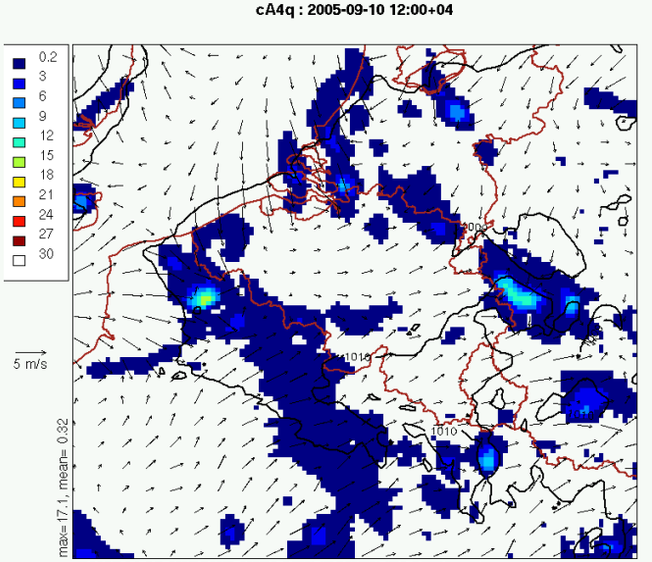


Aladin MaC

4 km



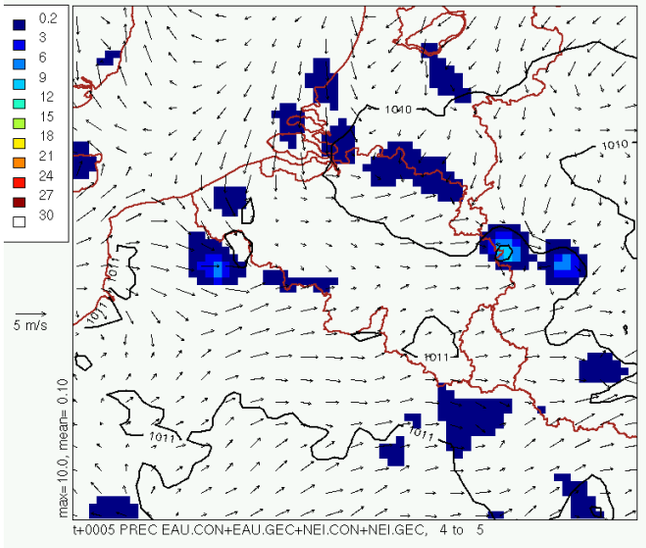




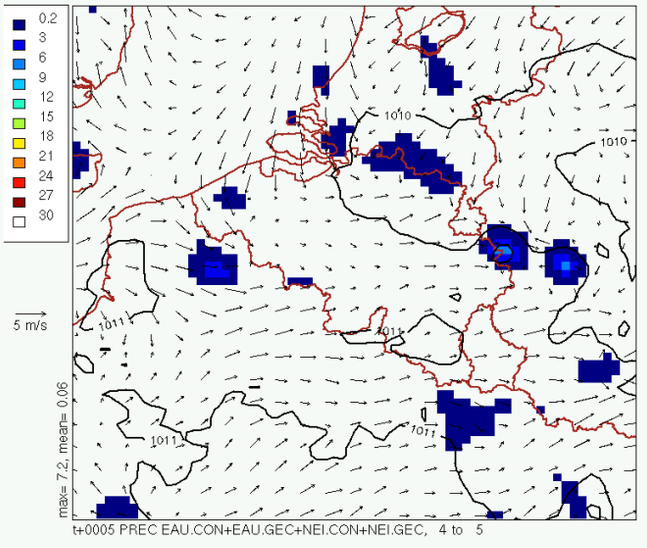
L. Gerard, 29 March 2007

Thunderstorms on Saturday 10 September 2005

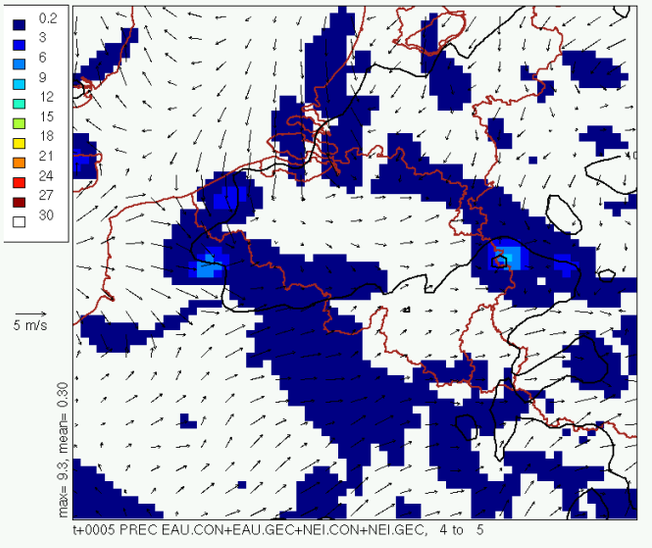
7 km



Alaro-0 LUDEN=F

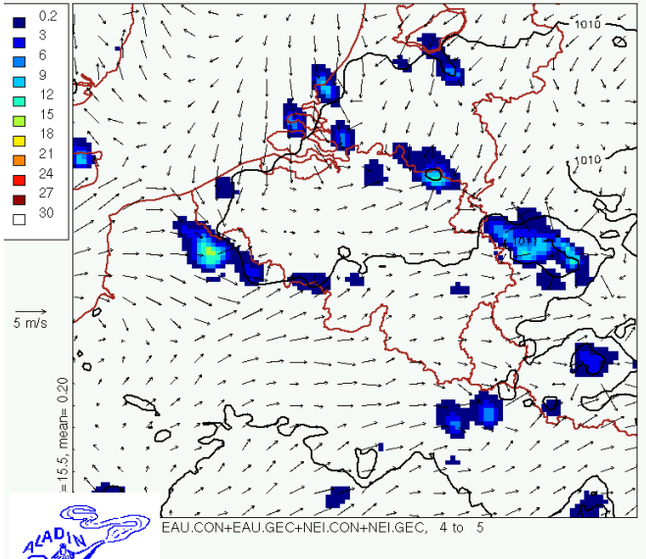


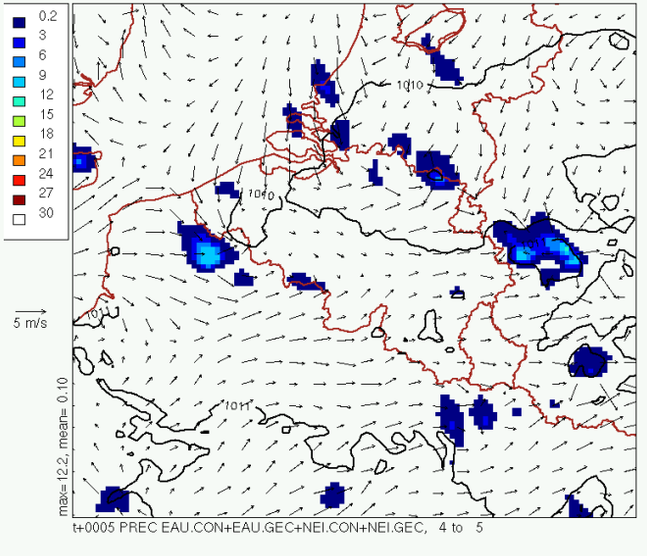
Alaro-0 LUDEN=T

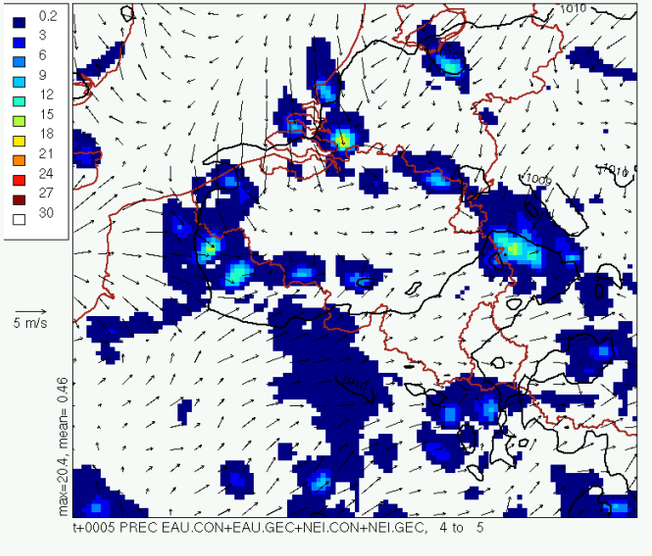


Aladin MaC

4 km







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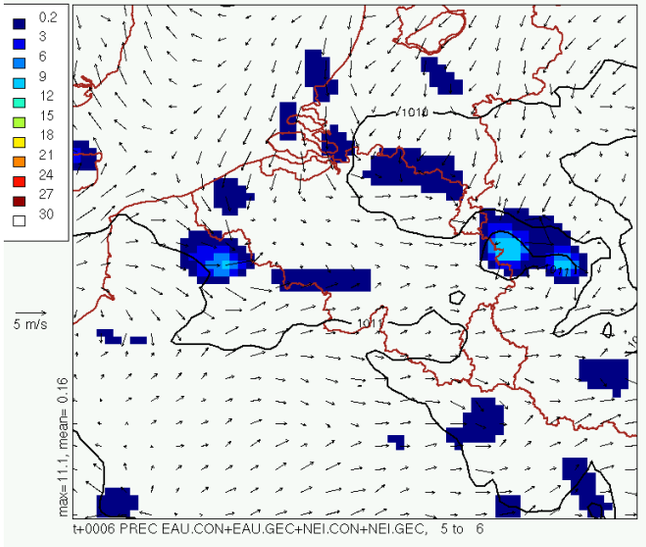
Thunderstorms on Saturday 10 September 2005

7 km



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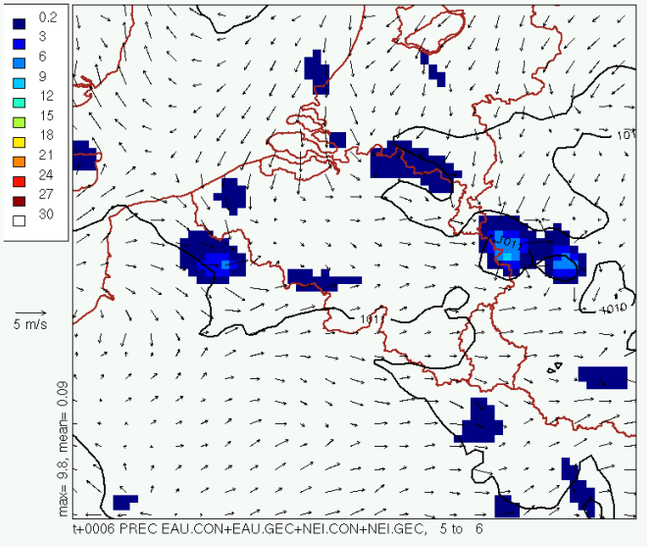

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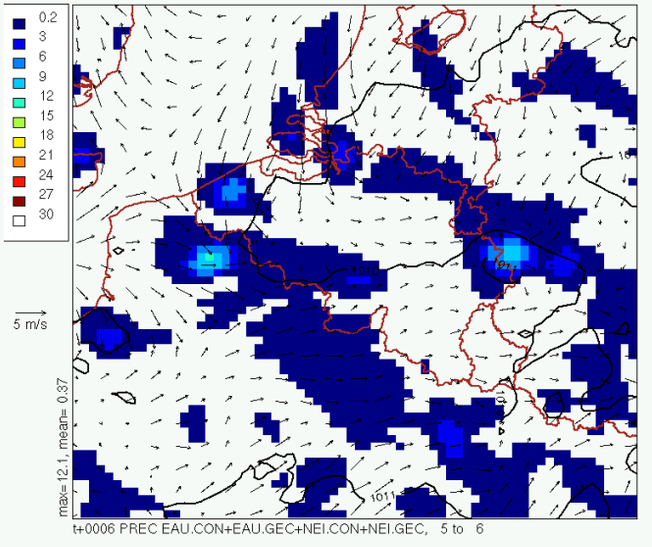
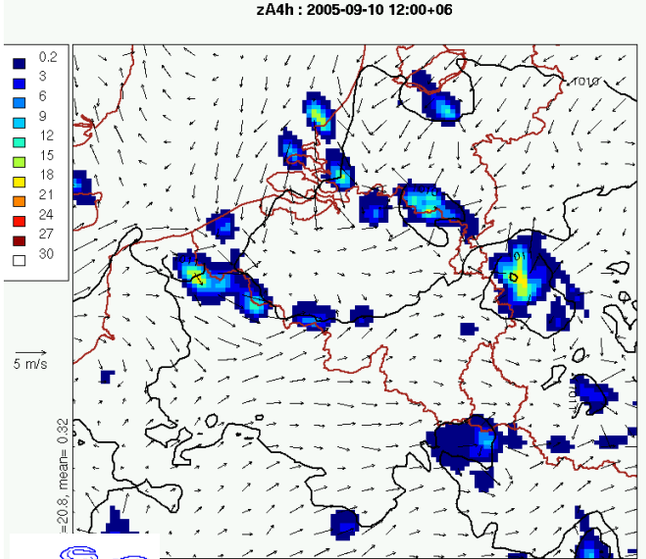
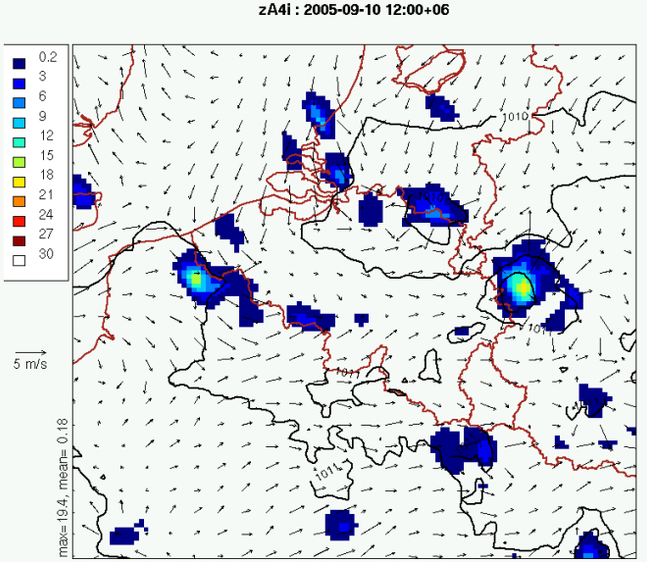
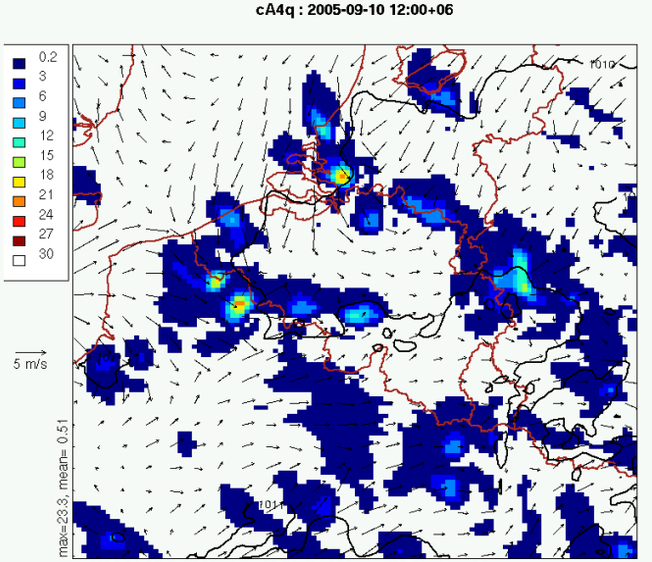


Aladin MaC

4 km







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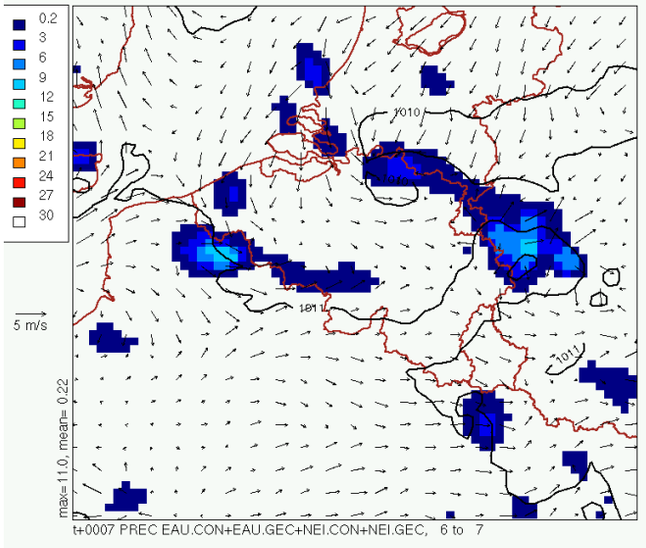
7 km



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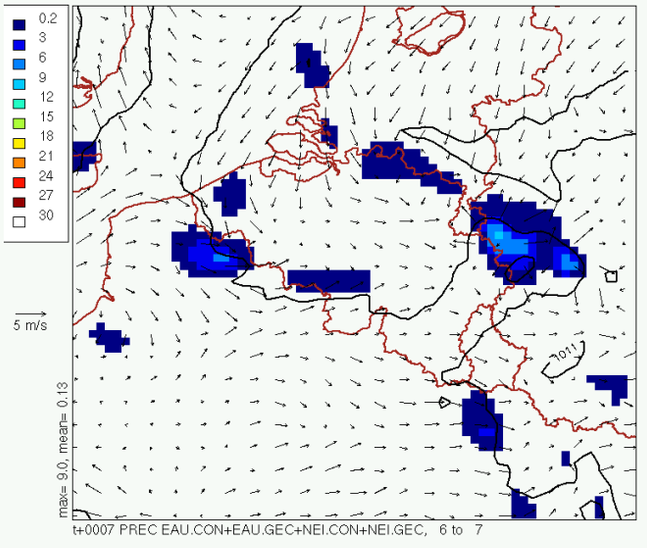

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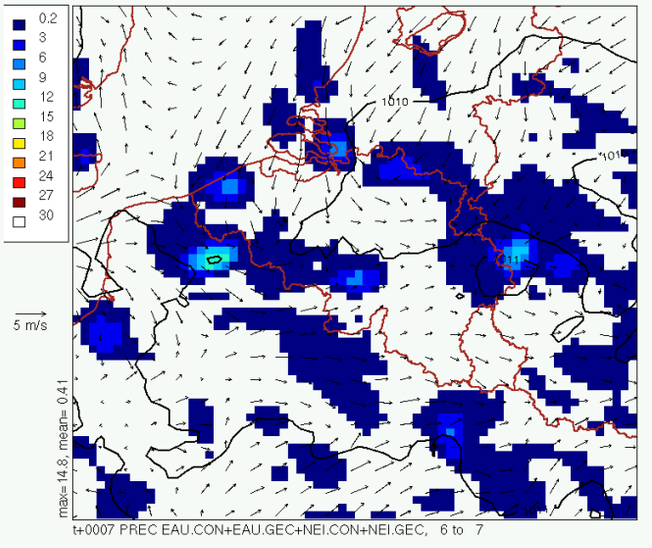
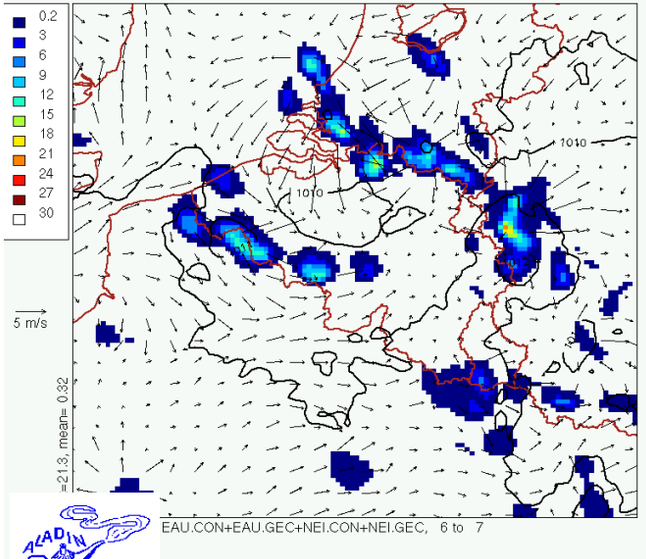
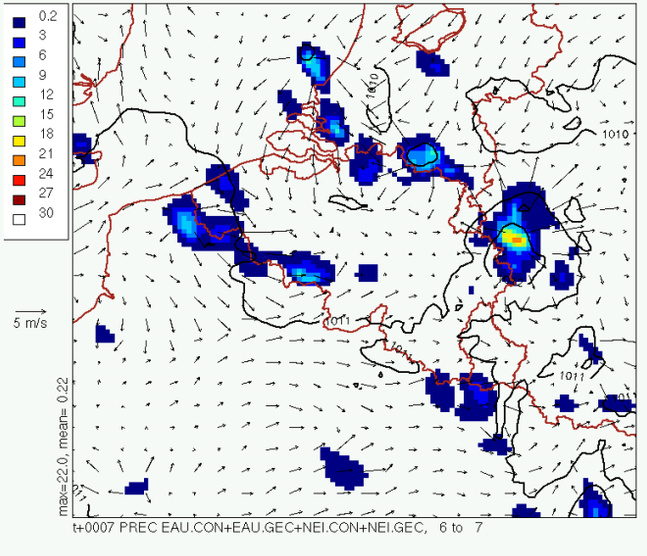
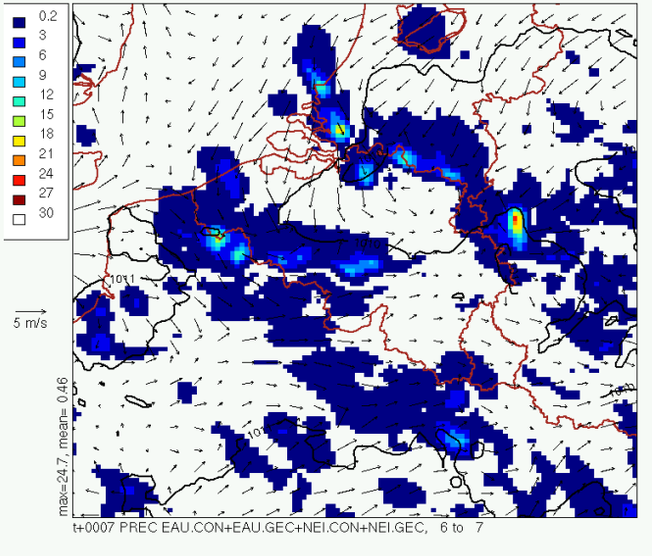


Aladin MaC

4 km







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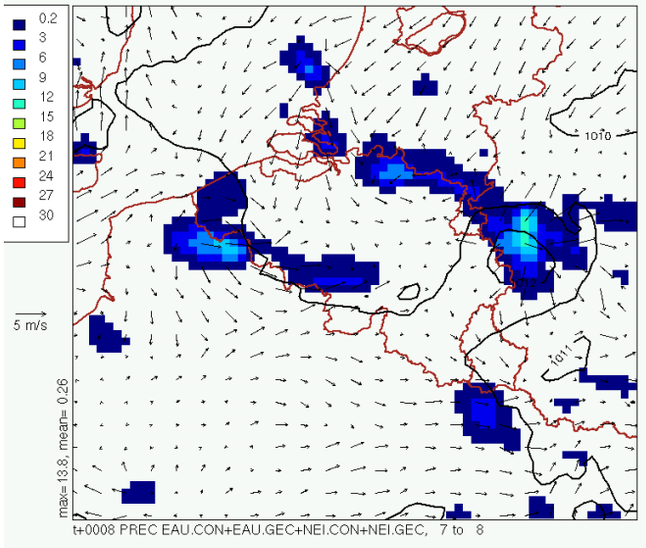
7 km



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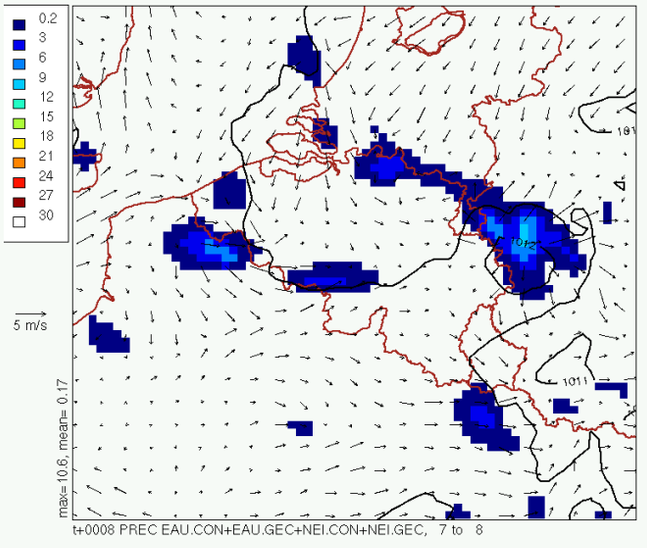

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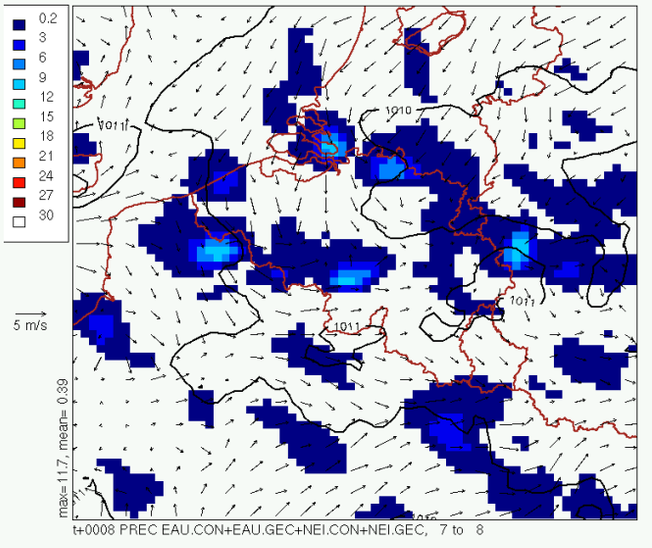
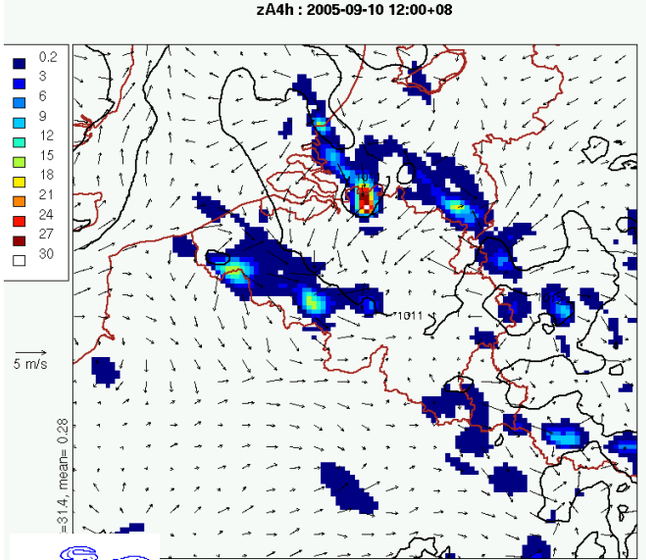
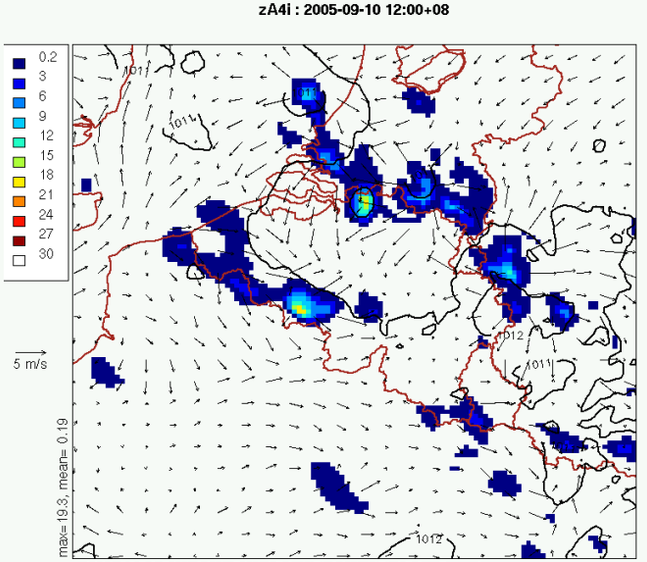
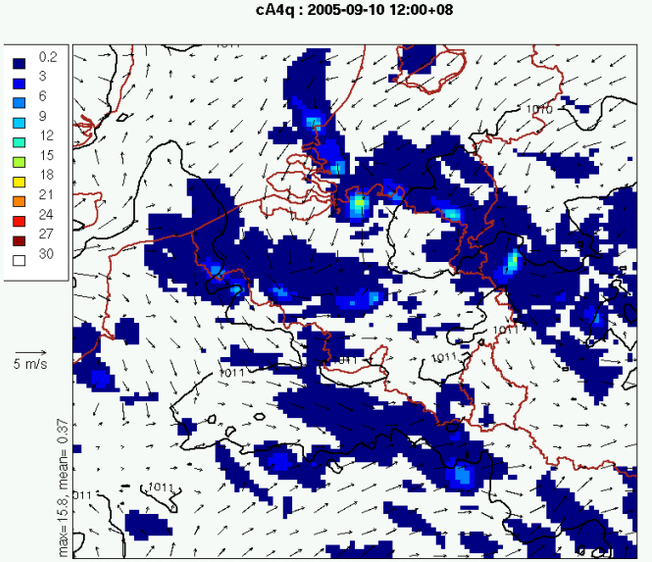


Aladin MaC

4 km







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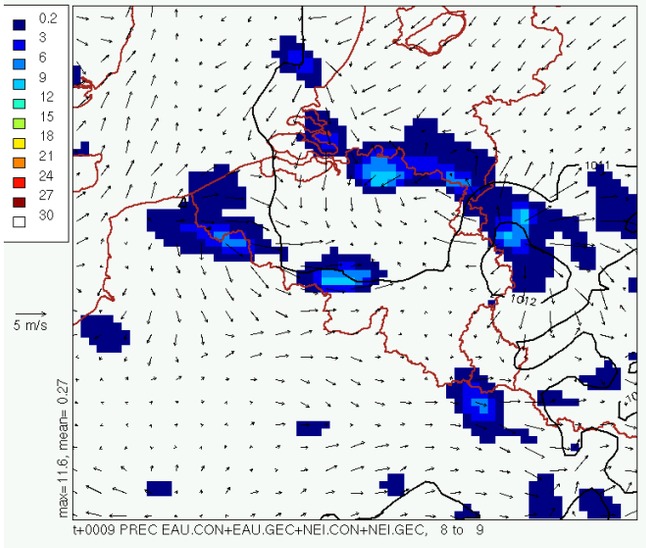
7 km



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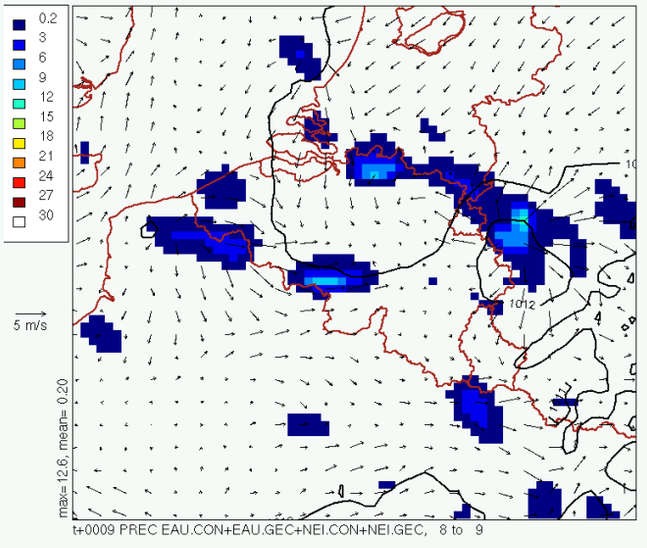

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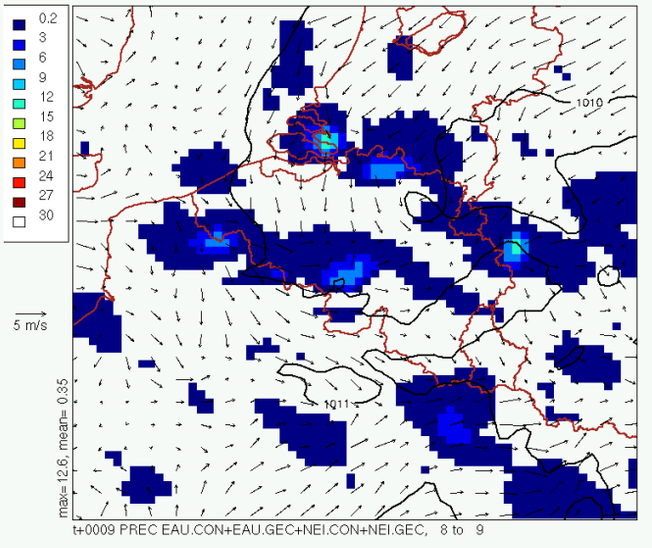
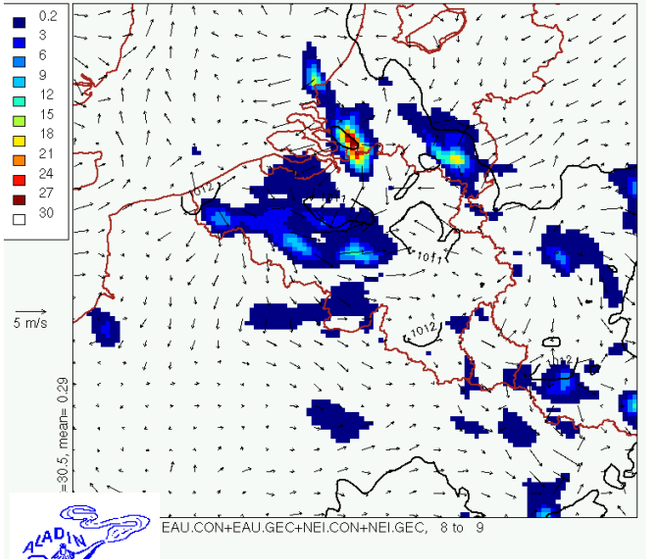
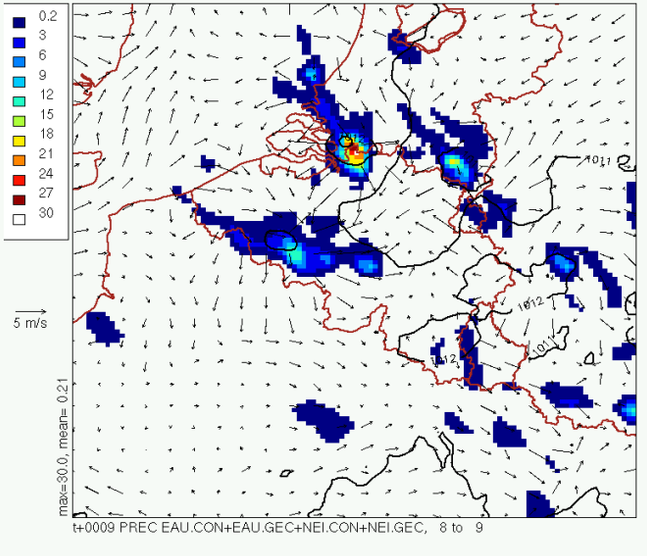
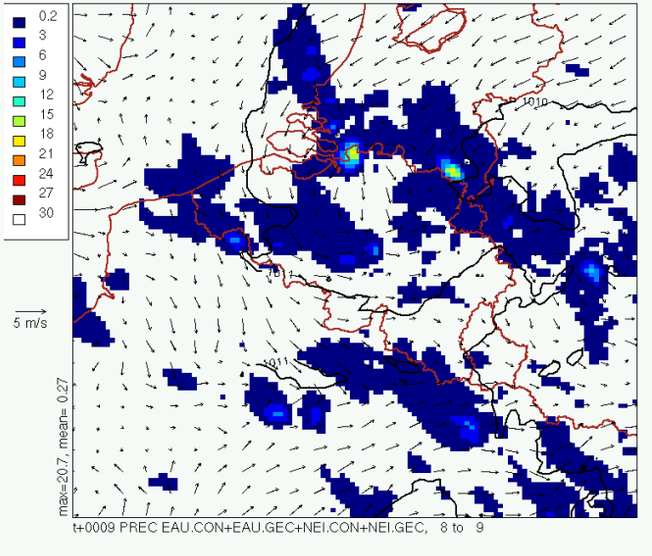


Aladin MaC

4 km







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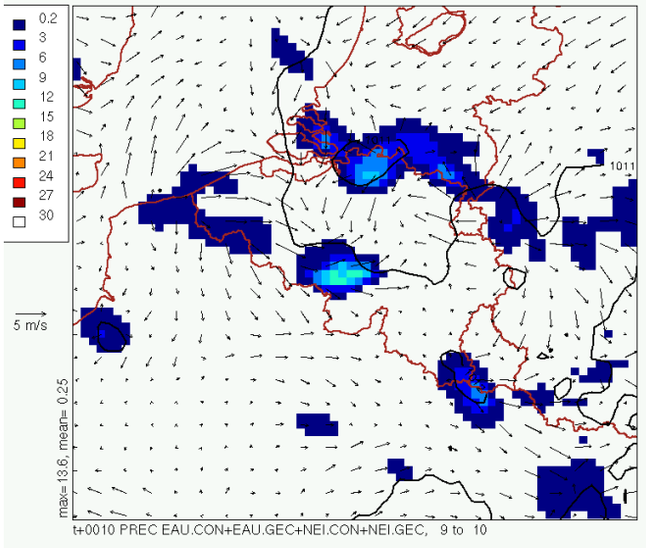
7 km



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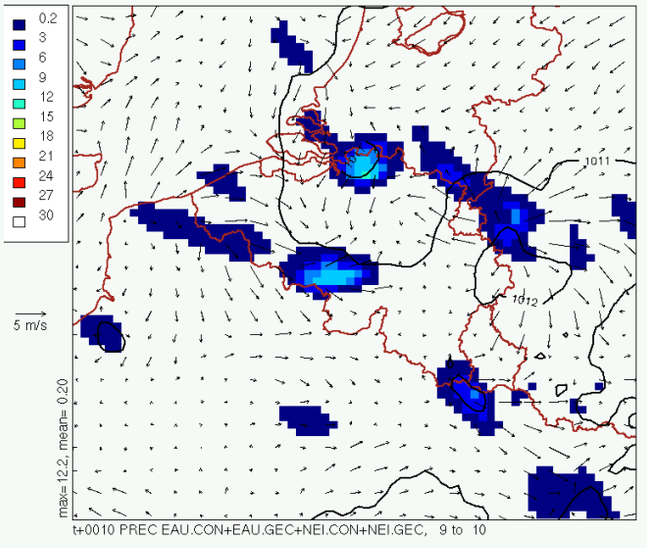

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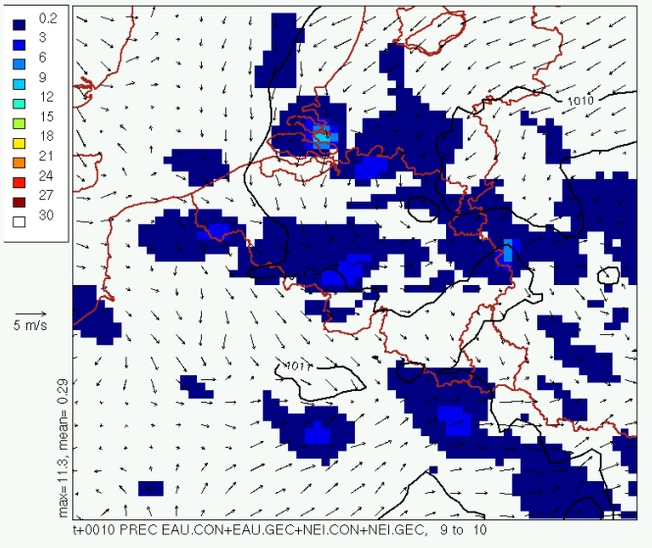

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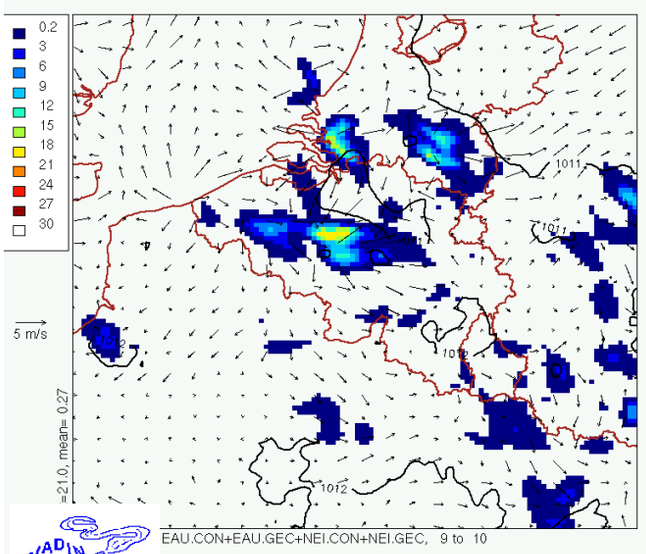
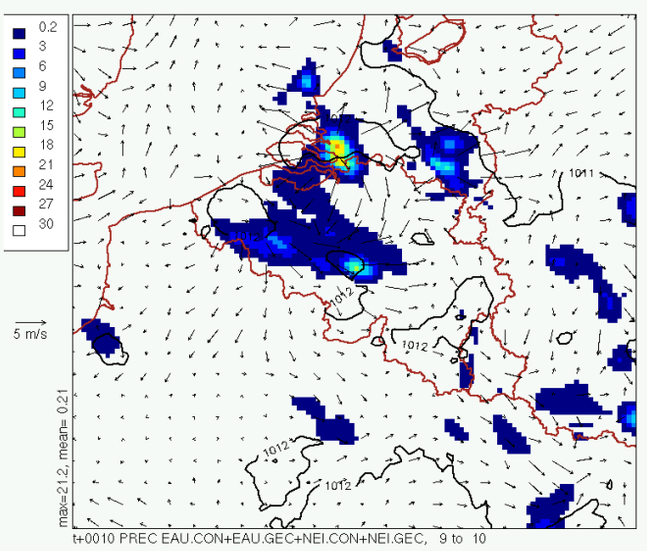
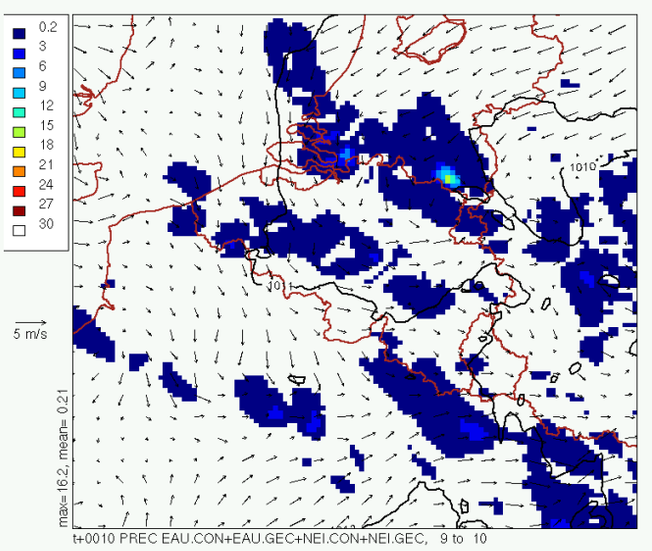
4 km







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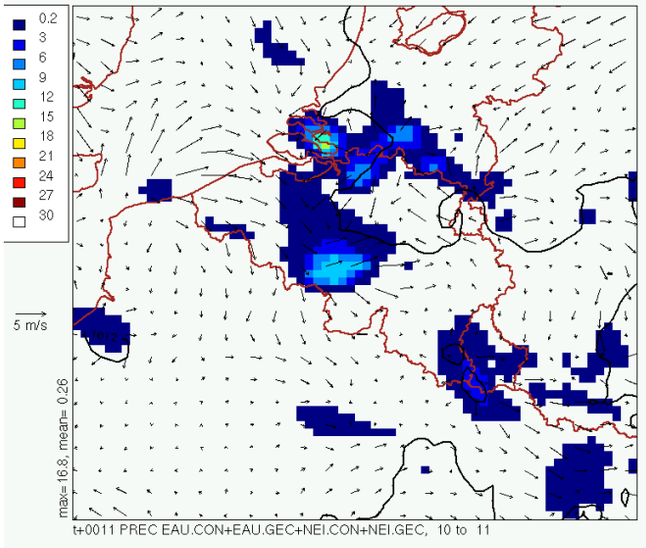
Thunderstorms on Saturday 10 September 2005

7 km



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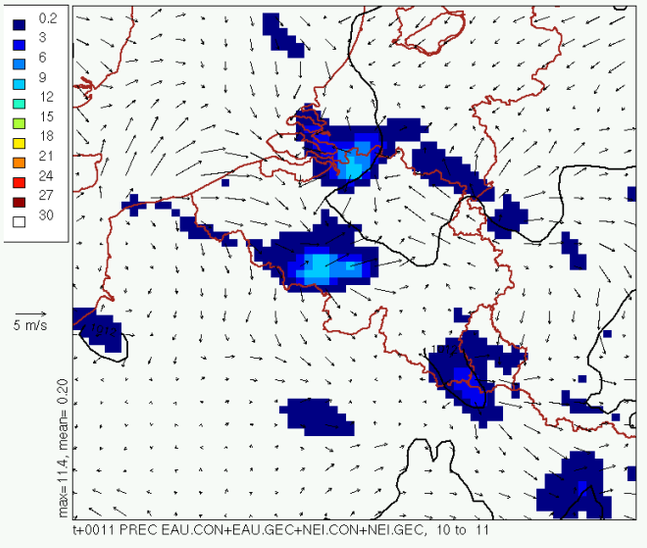

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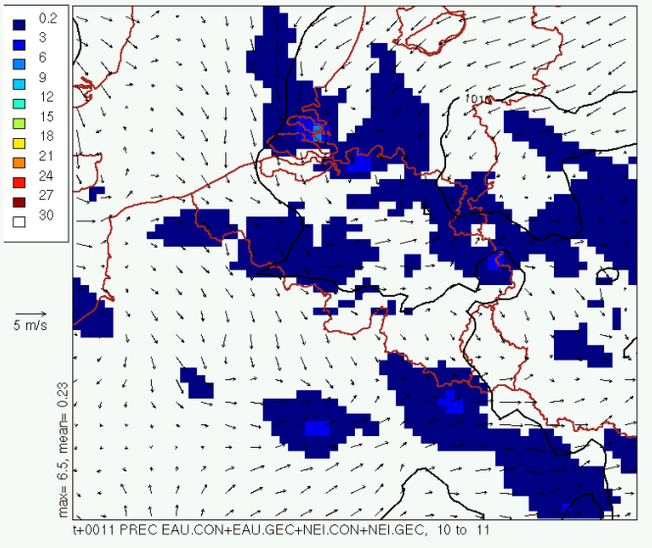
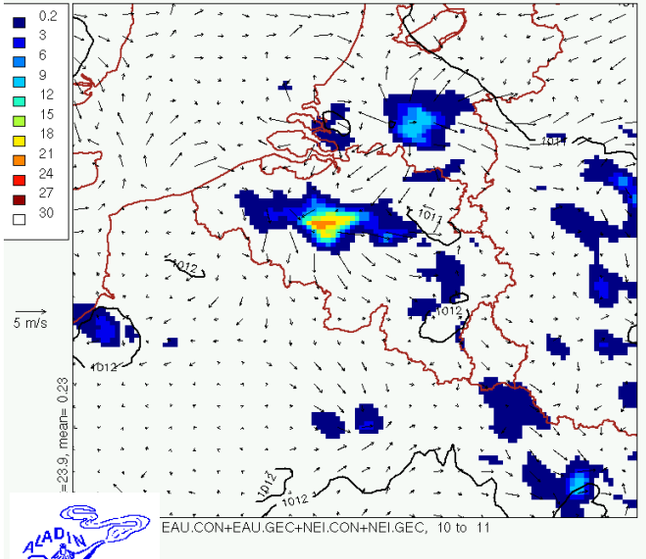
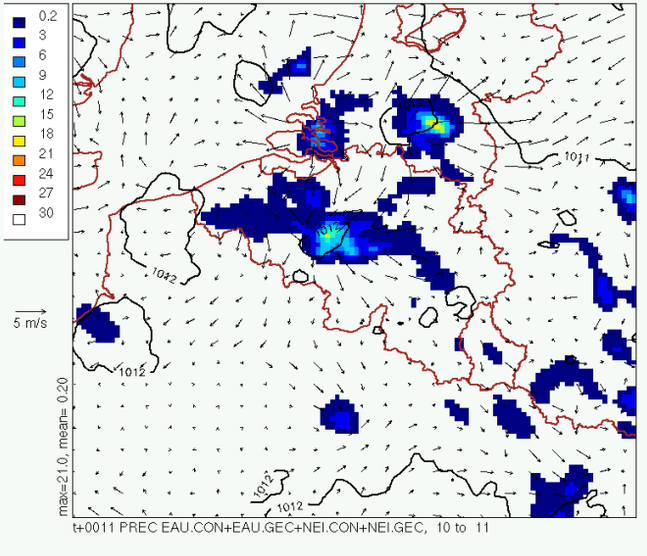
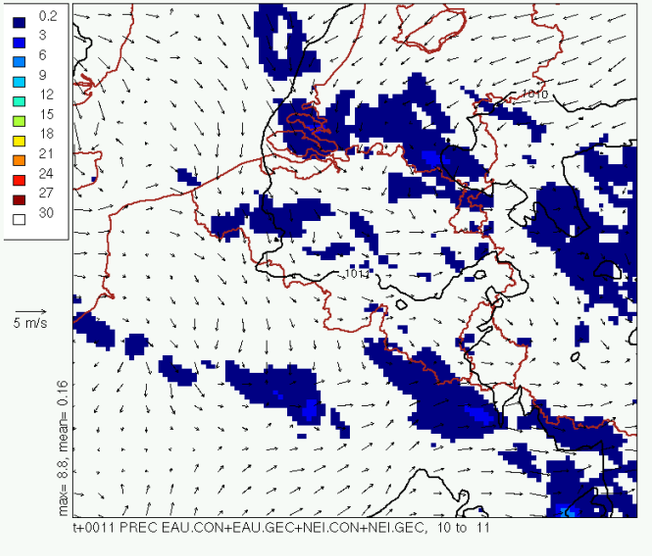


Aladin MaC

4 km







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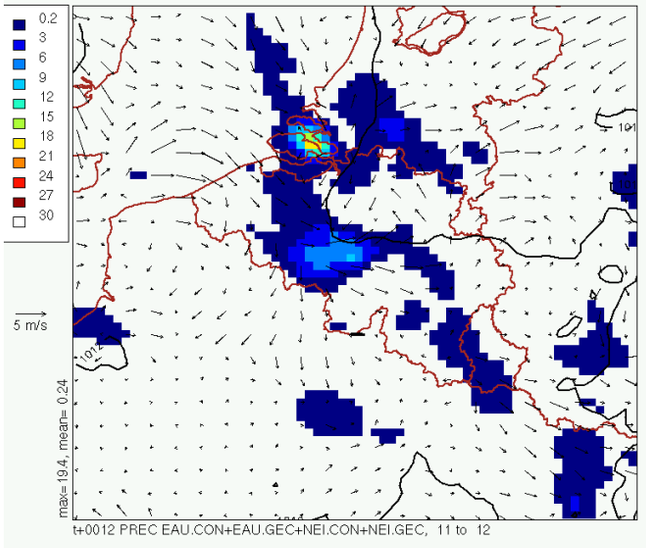
7 km



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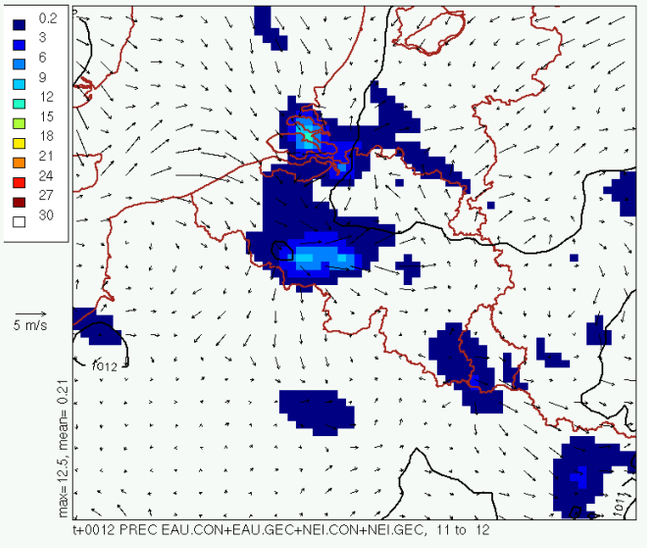

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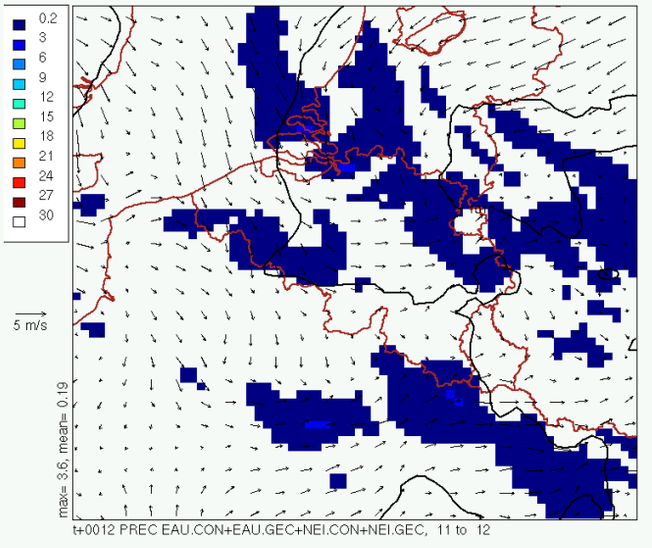
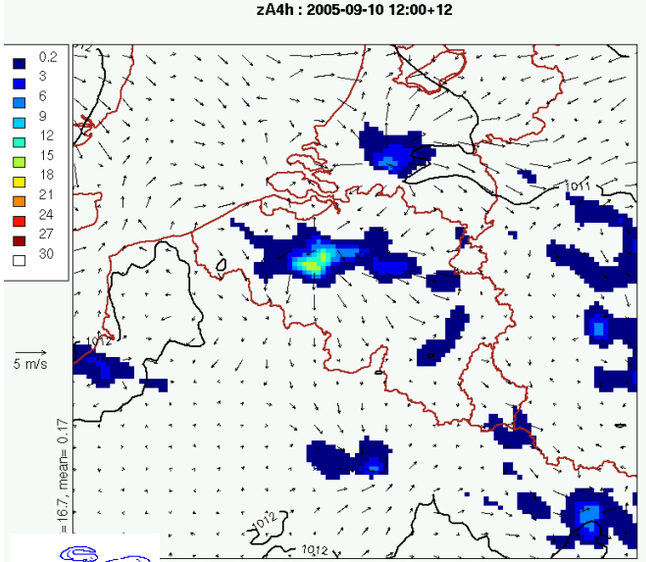
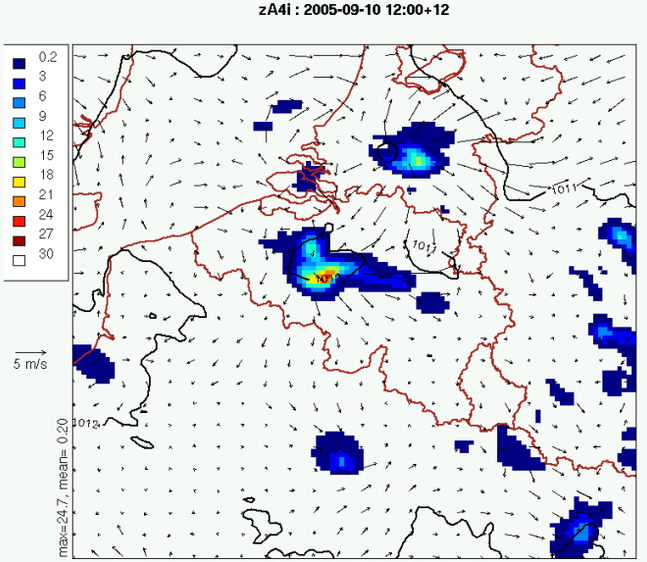
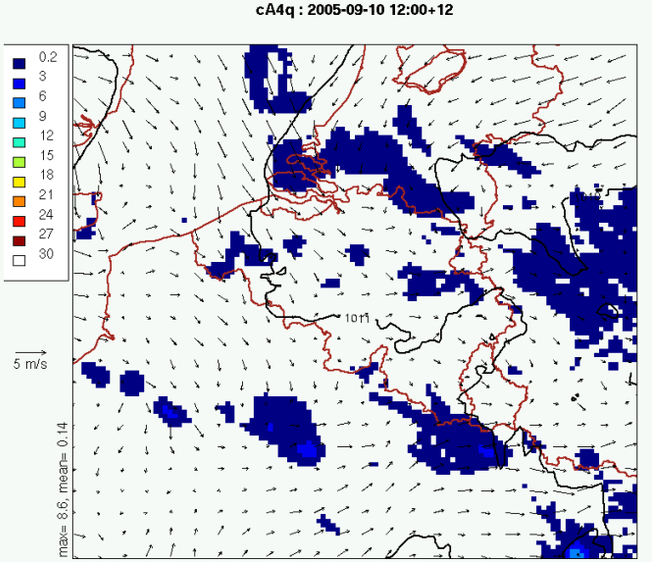


Aladin MaC

4 km







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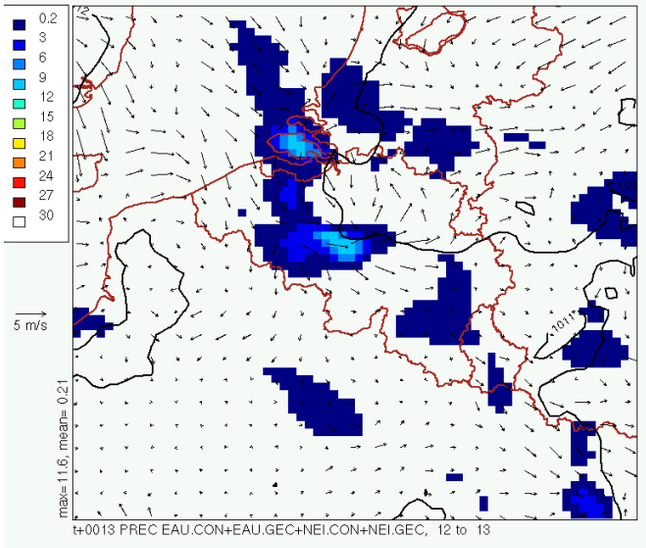

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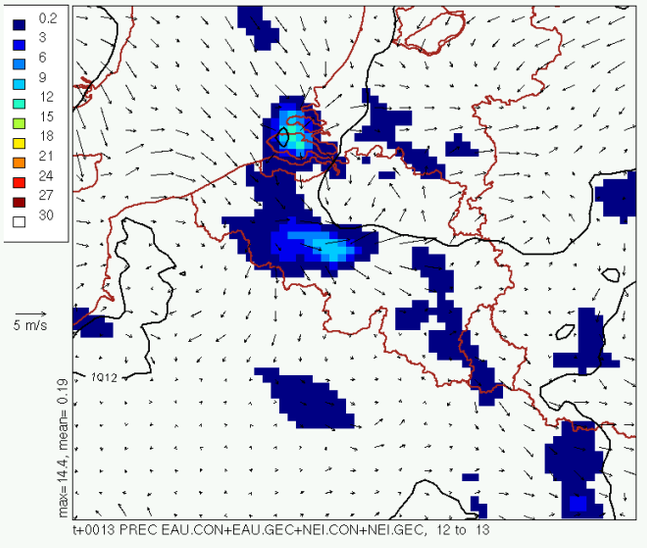

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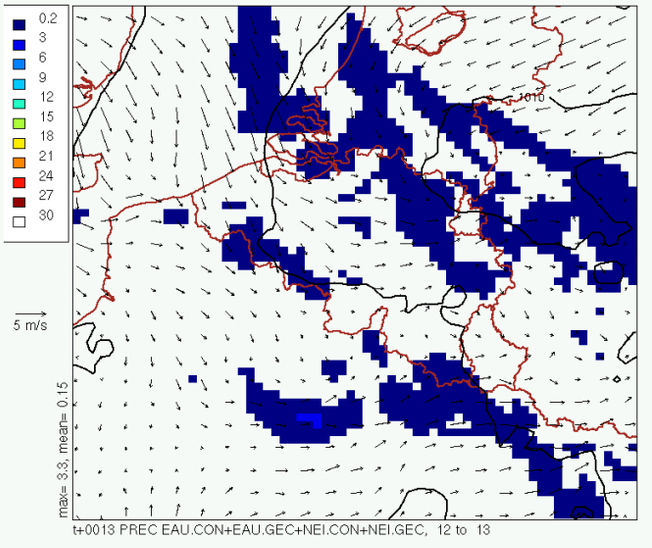
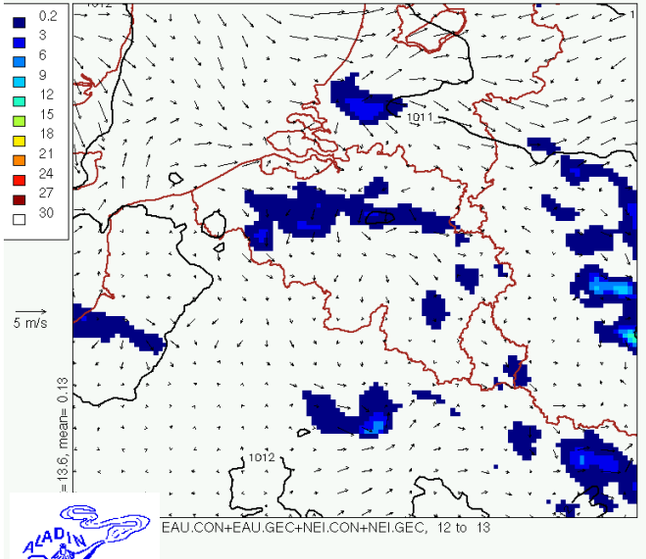
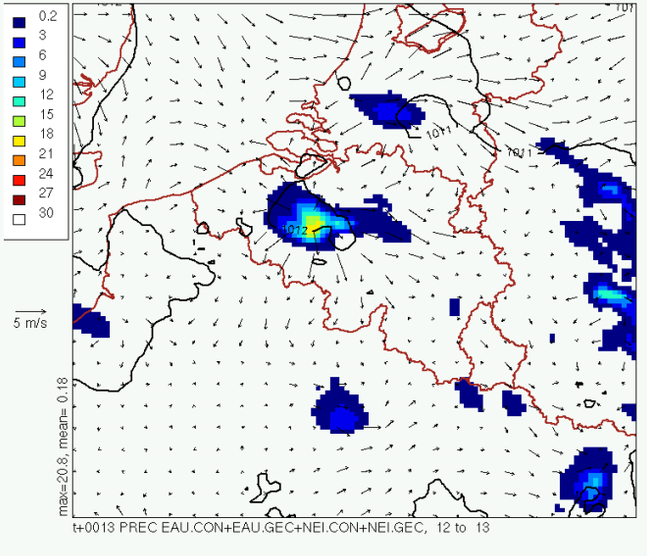
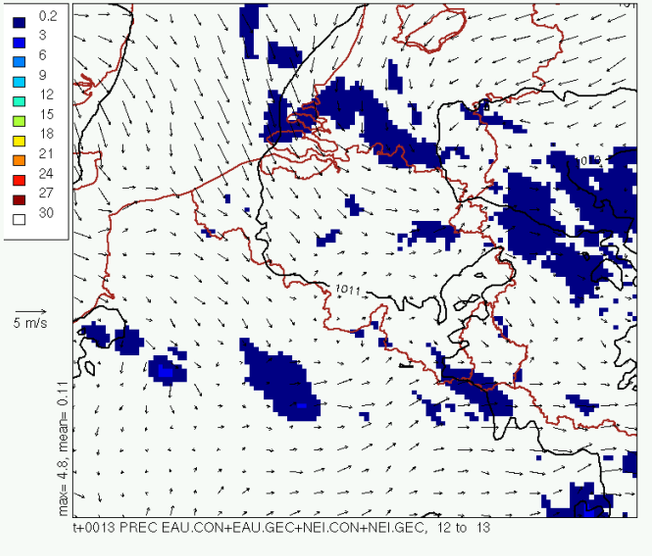


Aladin MaC

4 km







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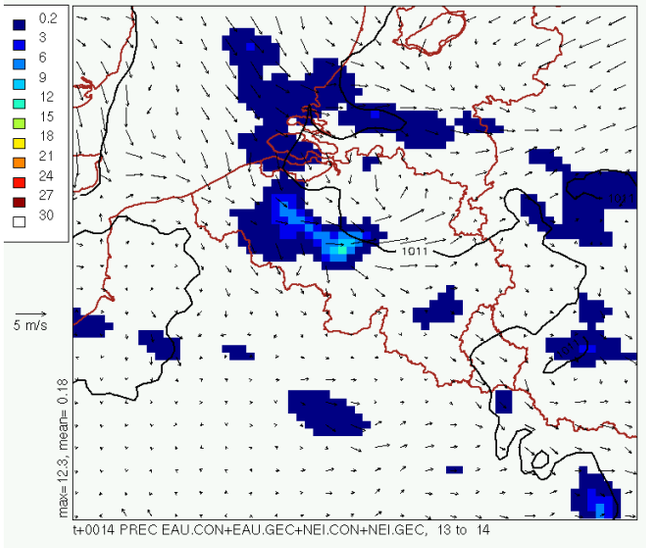

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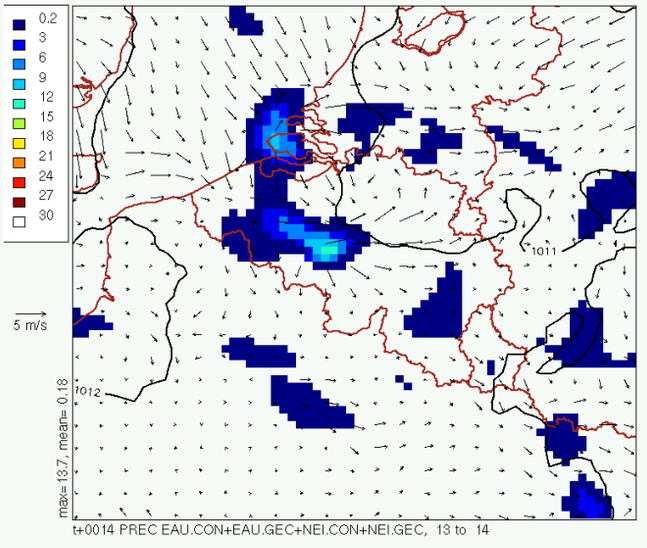

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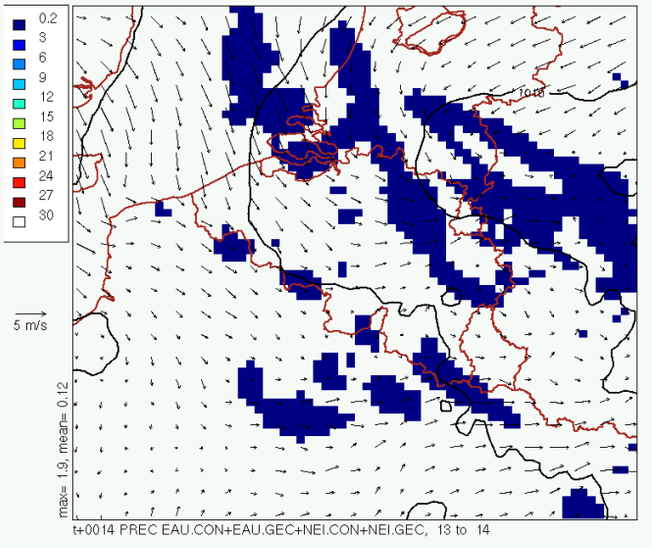
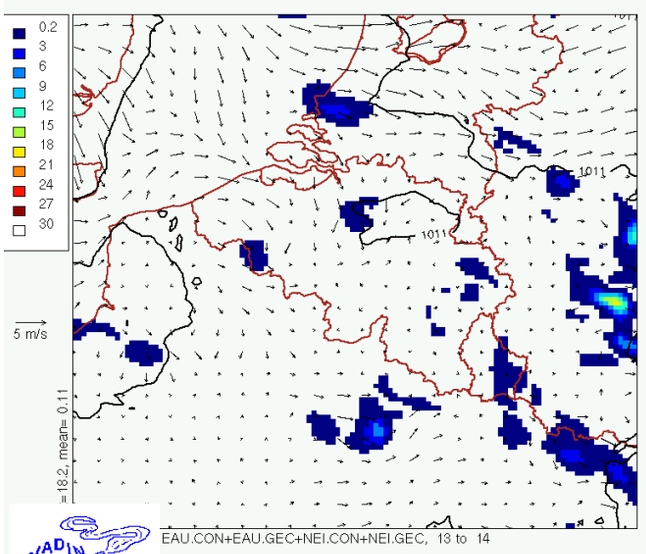
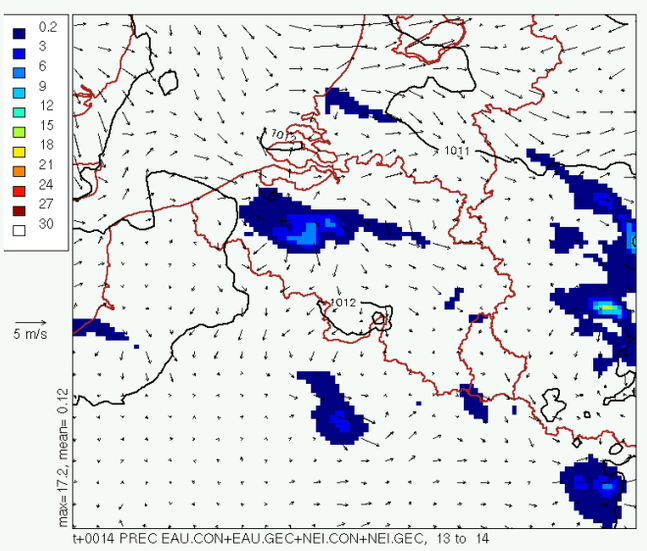
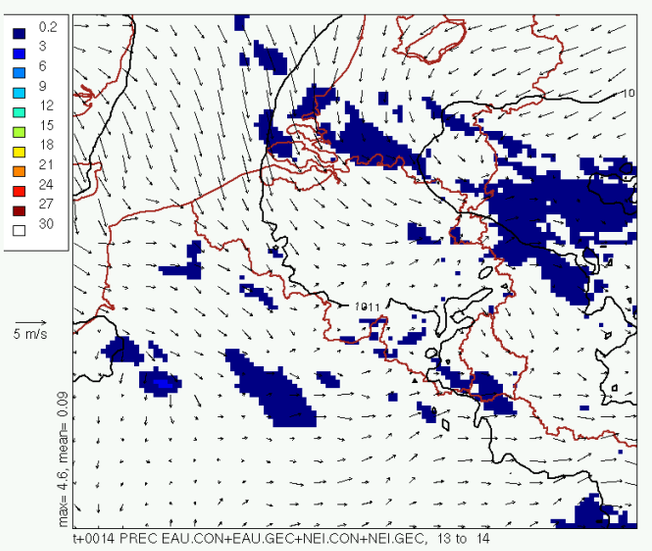


Aladin MaC

4 km







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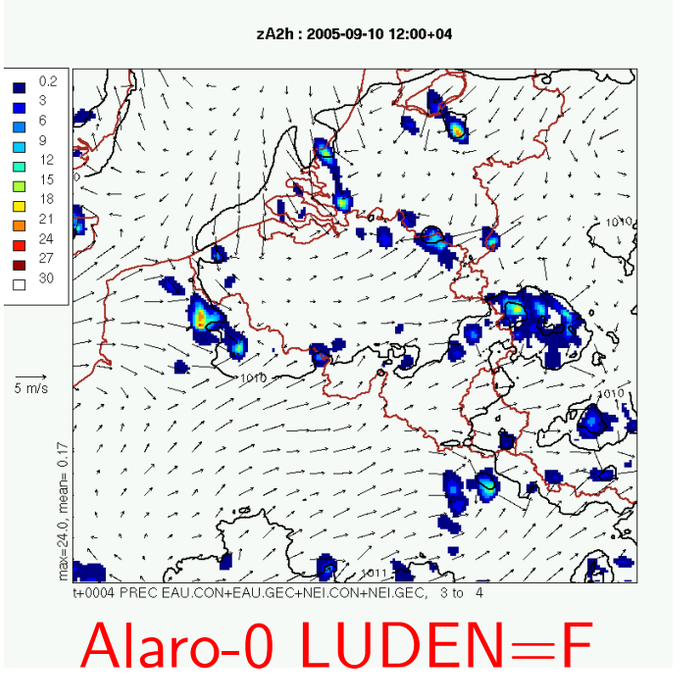
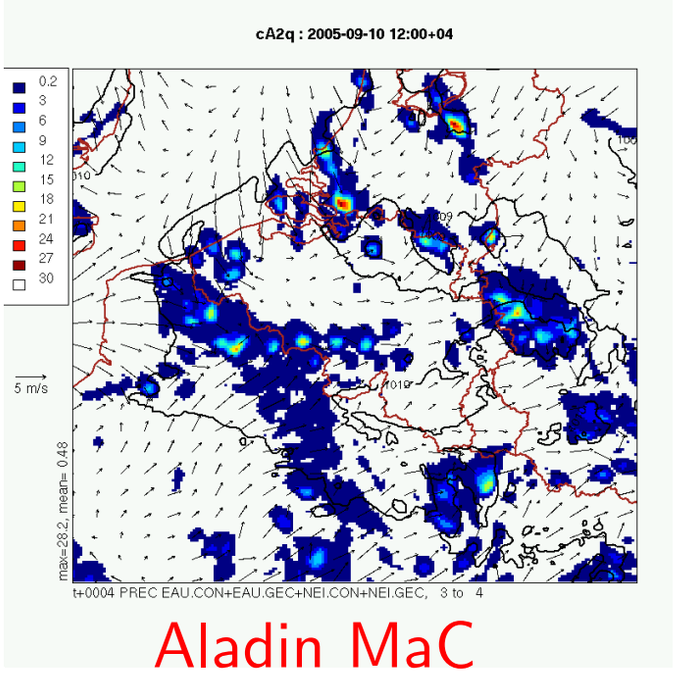
2 km



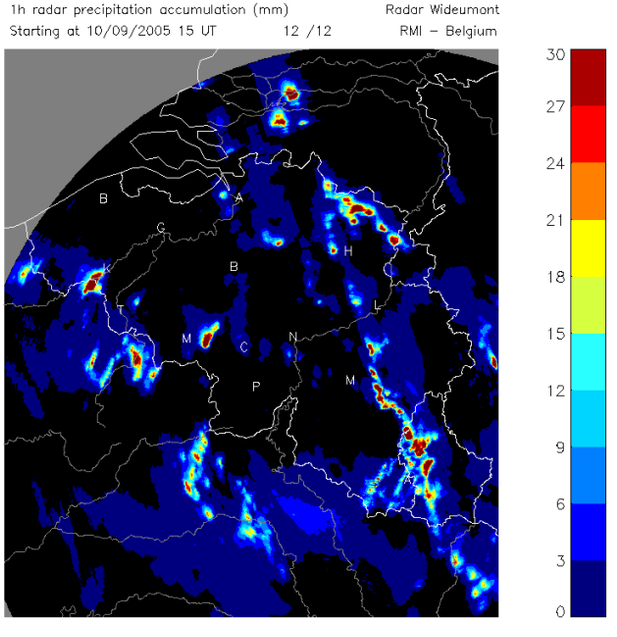
Alaro-0 LUDEN=F

Alaro-0 LUDEN=T



Aladin MaC

Radar



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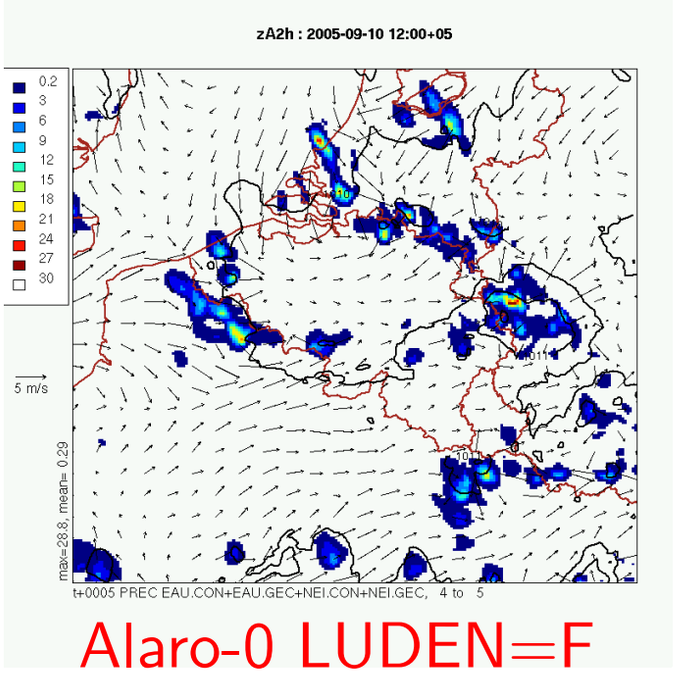
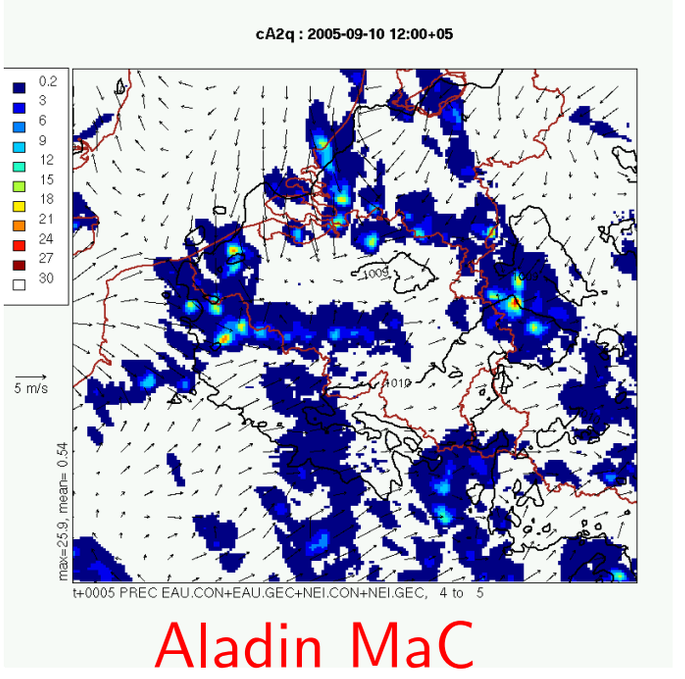
Thunderstorms on Saturday 10 September 2005

2 km



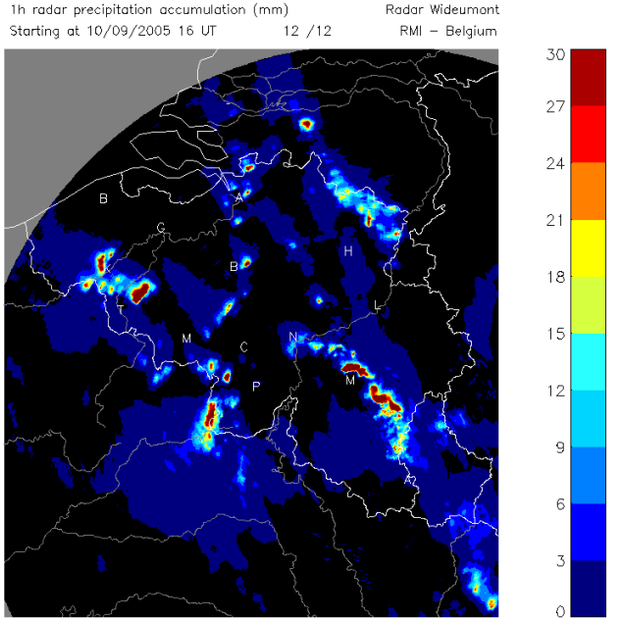
Alaro-0 LUDEN=F

Alaro-0 LUDEN=T



Aladin MaC

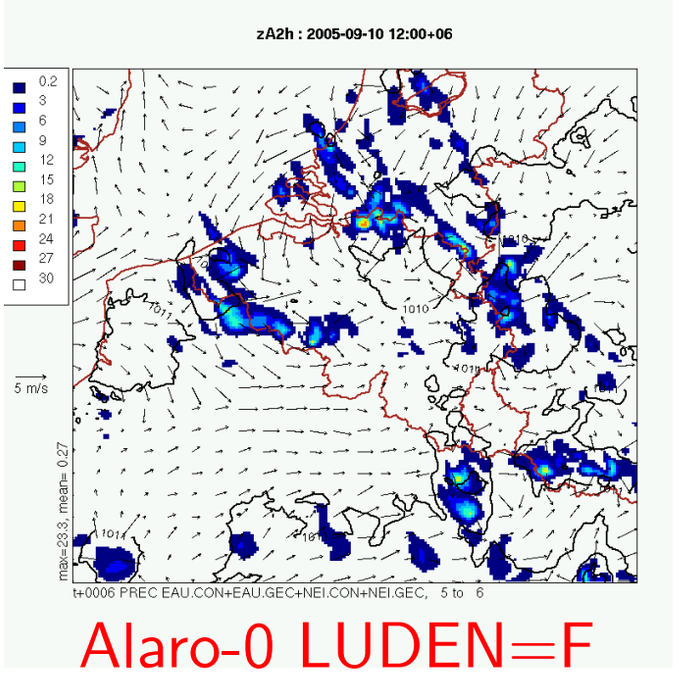
Radar



L. Gerard, 29 March 2007

Thunderstorms on Saturday 10 September 2005

2 km



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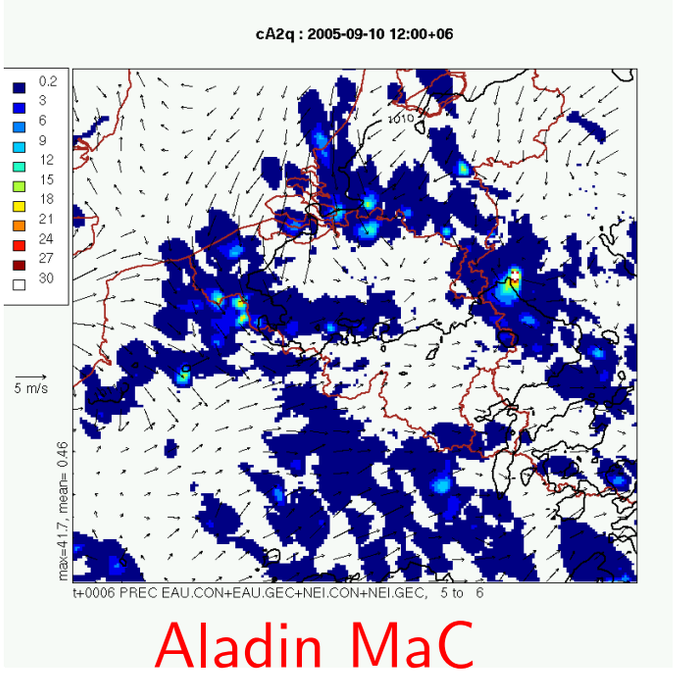
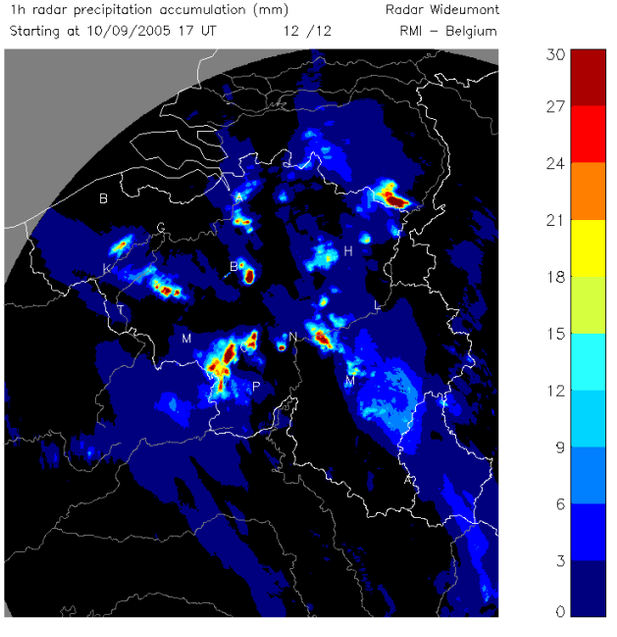


Aladin MaC

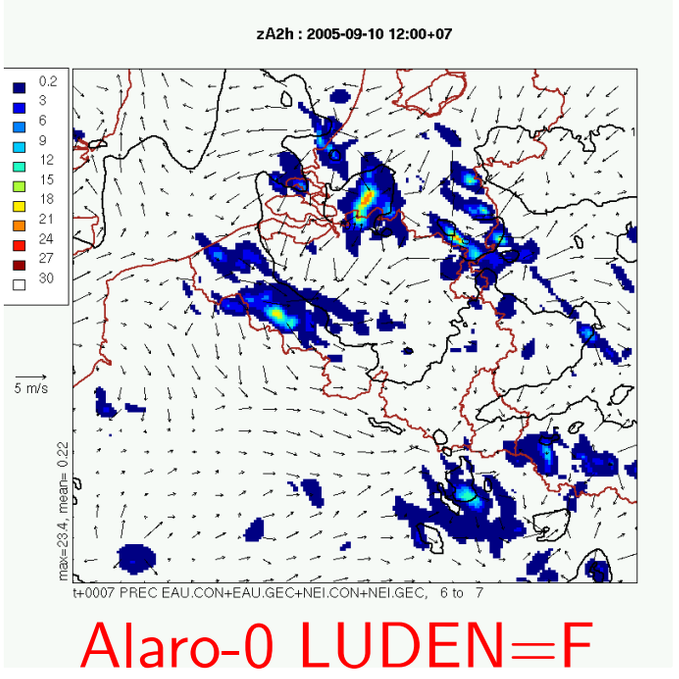
Radar



L. Gerard, 29 March 2007

Thunderstorms on Saturday 10 September 2005

2 km



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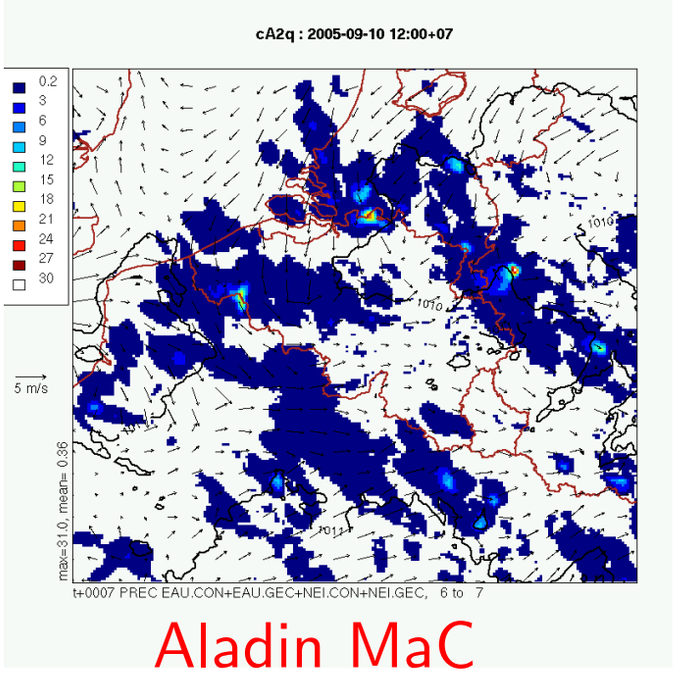
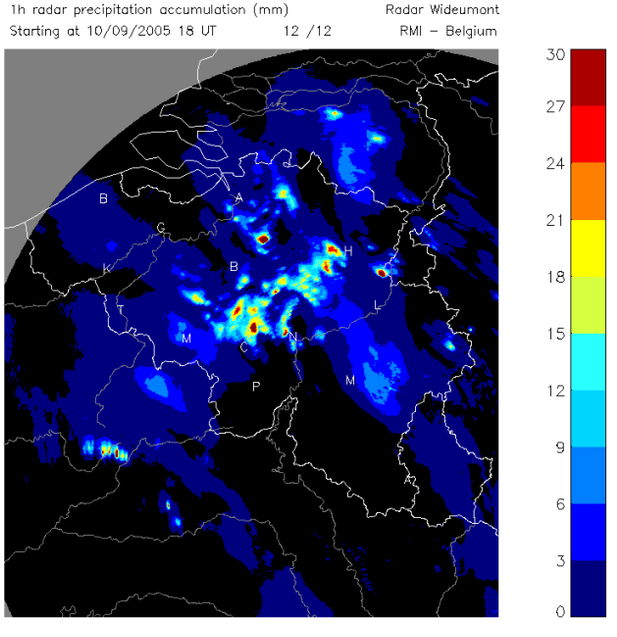


Aladin MaC

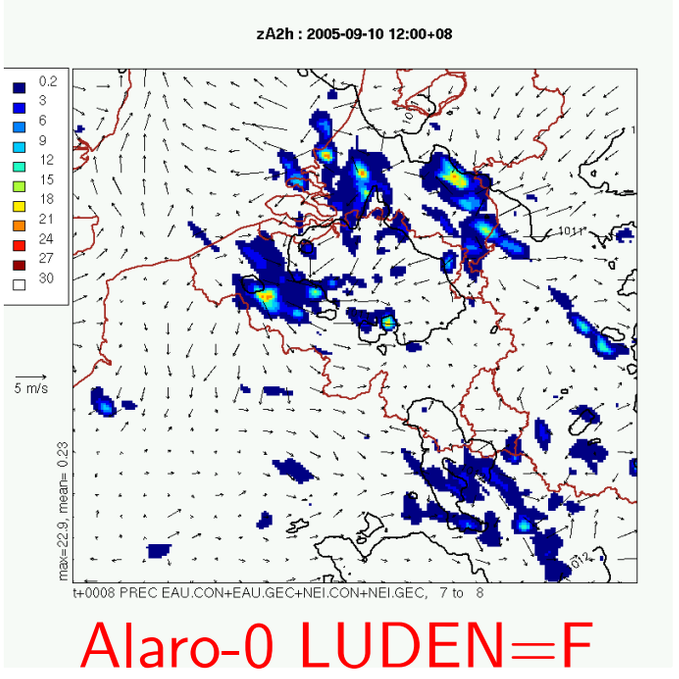
Radar



L. Gerard, 29 March 2007

Thunderstorms on Saturday 10 September 2005

2 km



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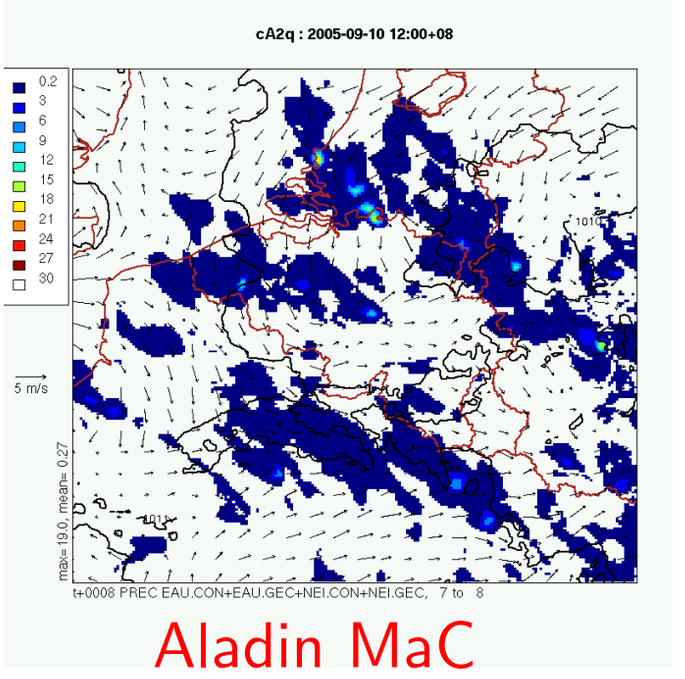

Aladin MaC

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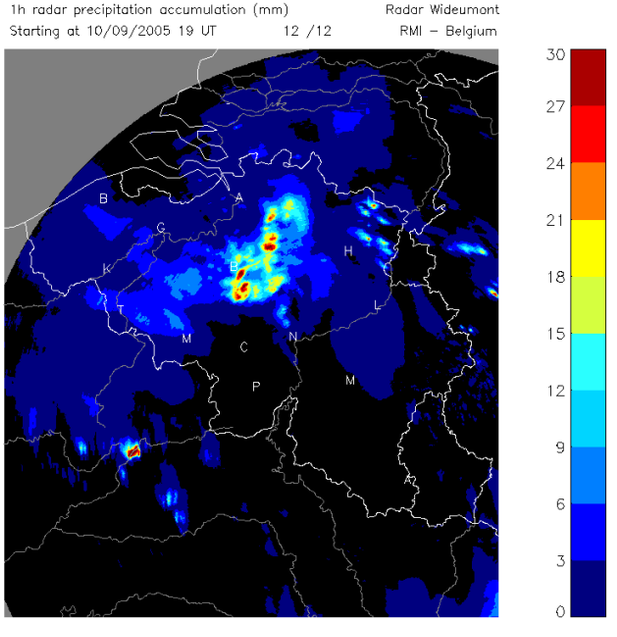
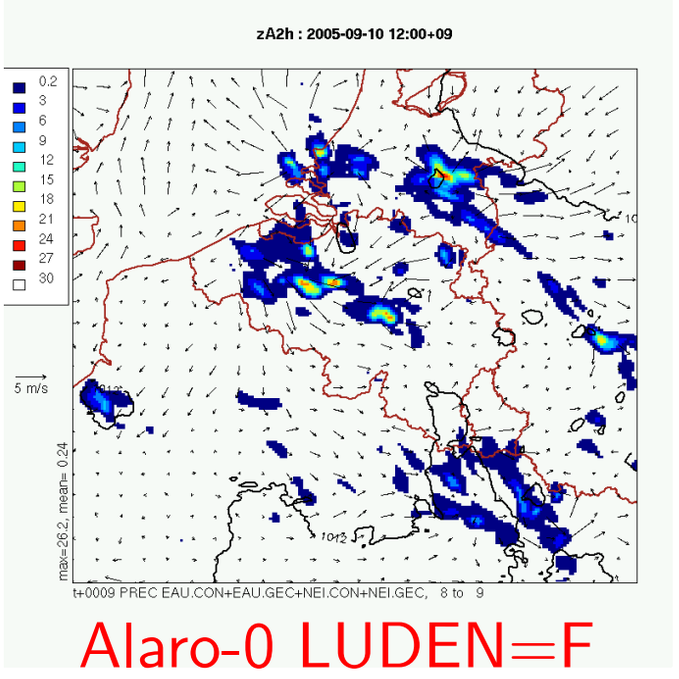


L. Gerard, 29 March 2007

Thunderstorms on Saturday 10 September 2005

2 km



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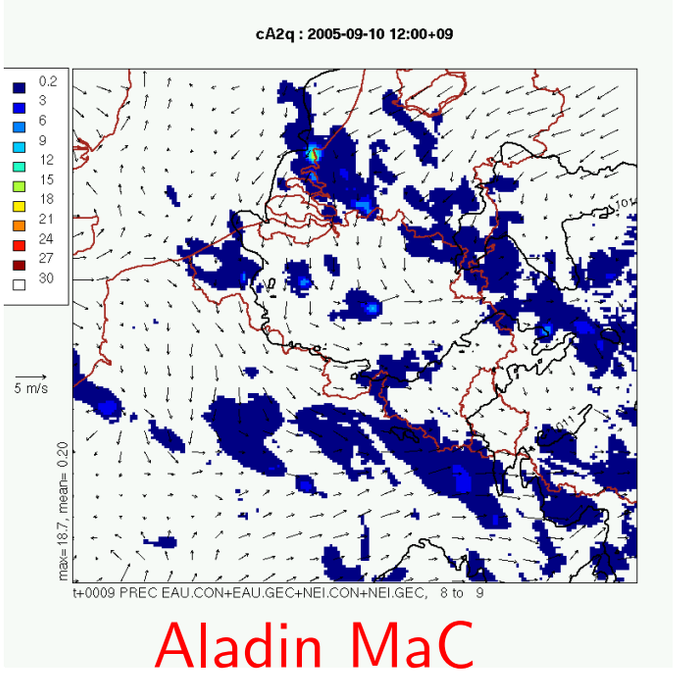
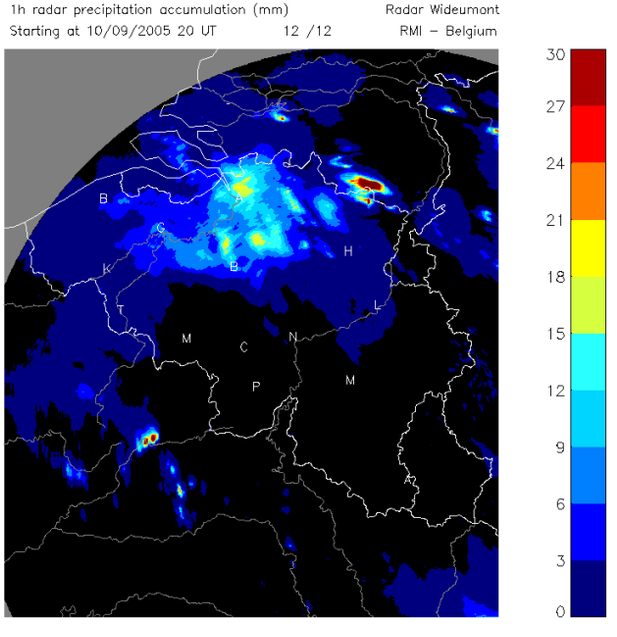


Aladin MaC

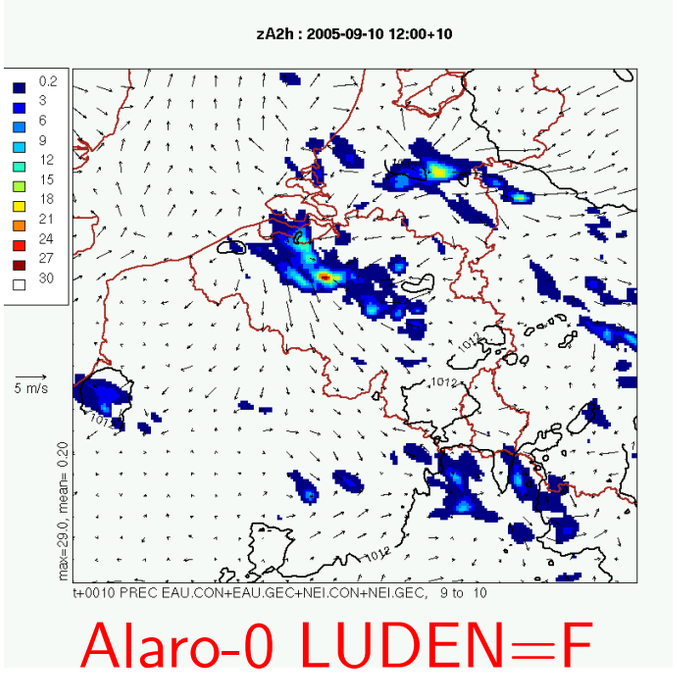
Radar



L. Gerard, 29 March 2007

Thunderstorms on Saturday 10 September 2005

2 km



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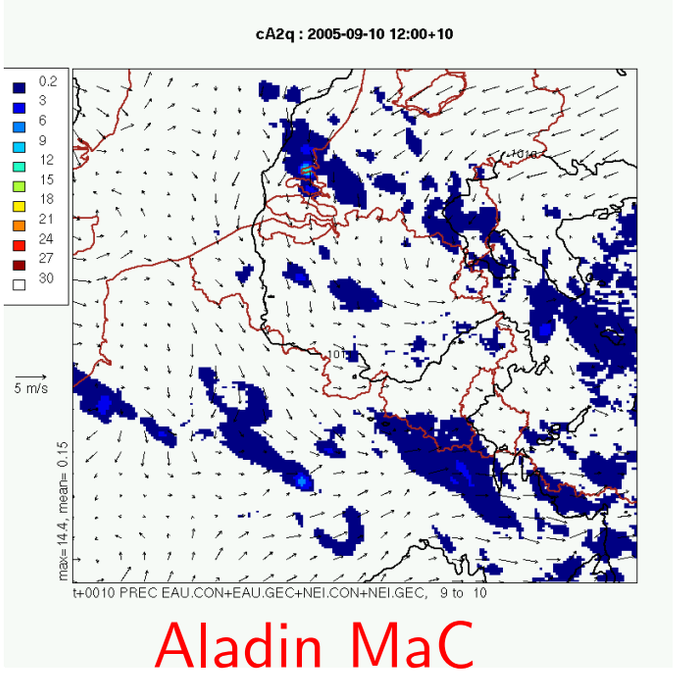
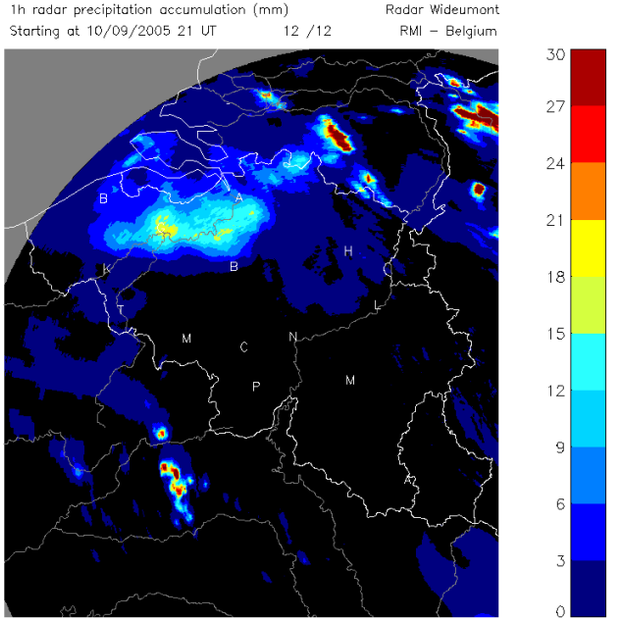


Aladin MaC

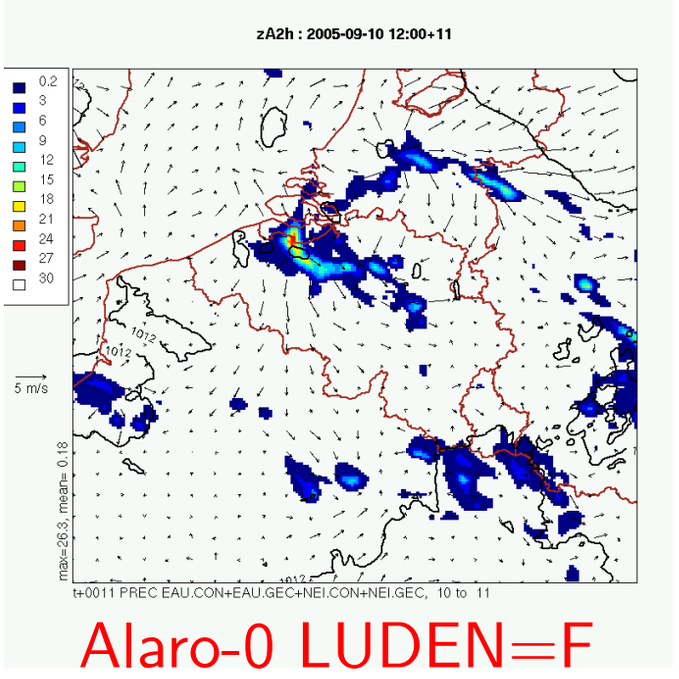
Radar



L. Gerard, 29 March 2007

Thunderstorms on Saturday 10 September 2005

2 km



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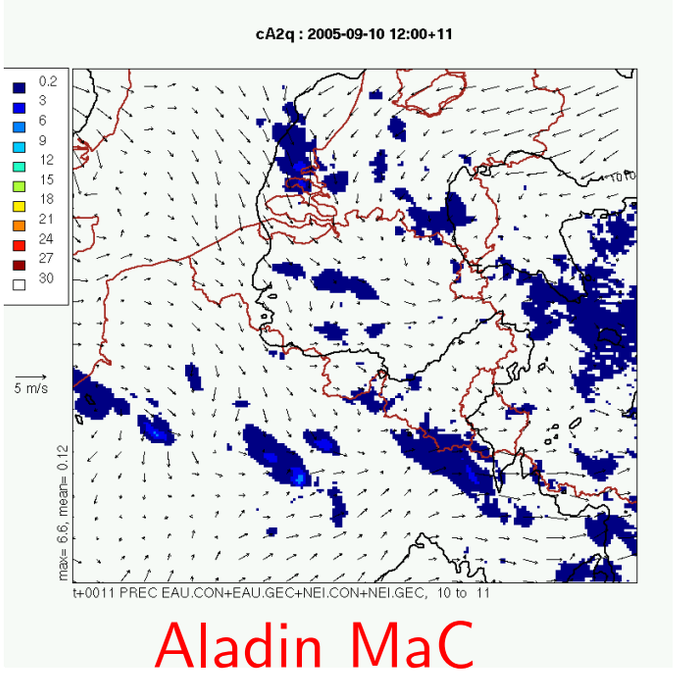

Aladin MaC

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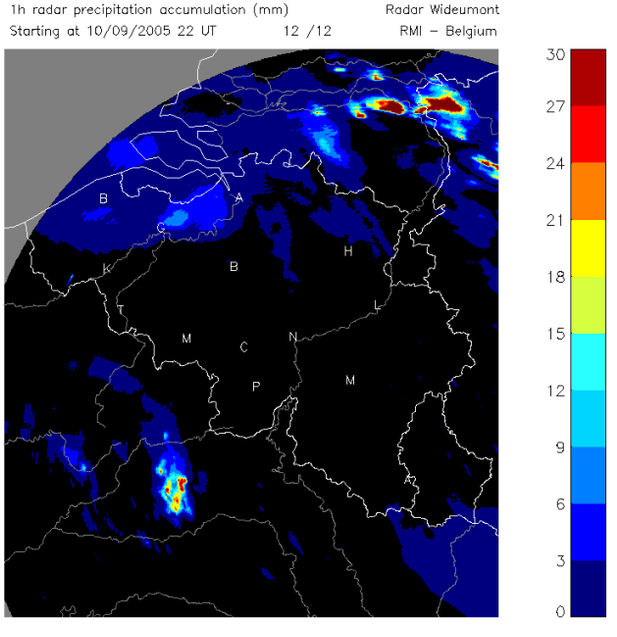
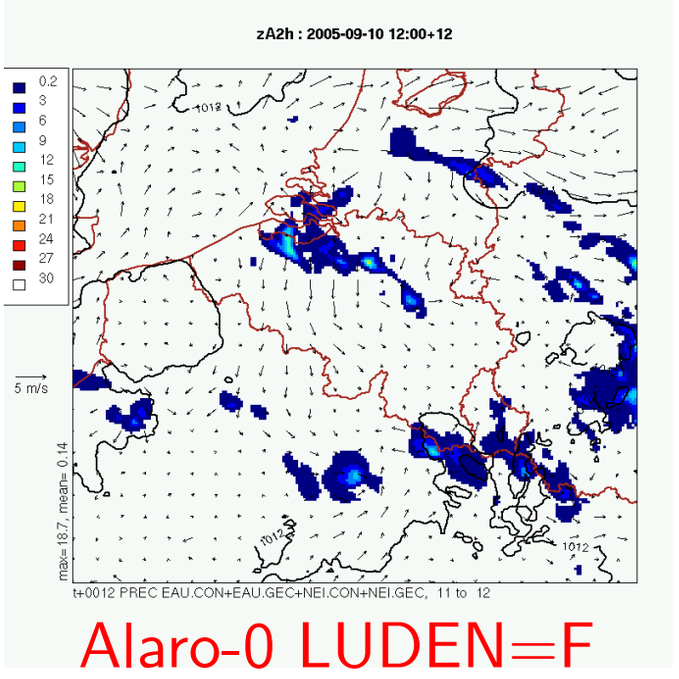


L. Gerard, 29 March 2007

Thunderstorms on Saturday 10 September 2005

2 km



Alaro-0 LUDEN=F

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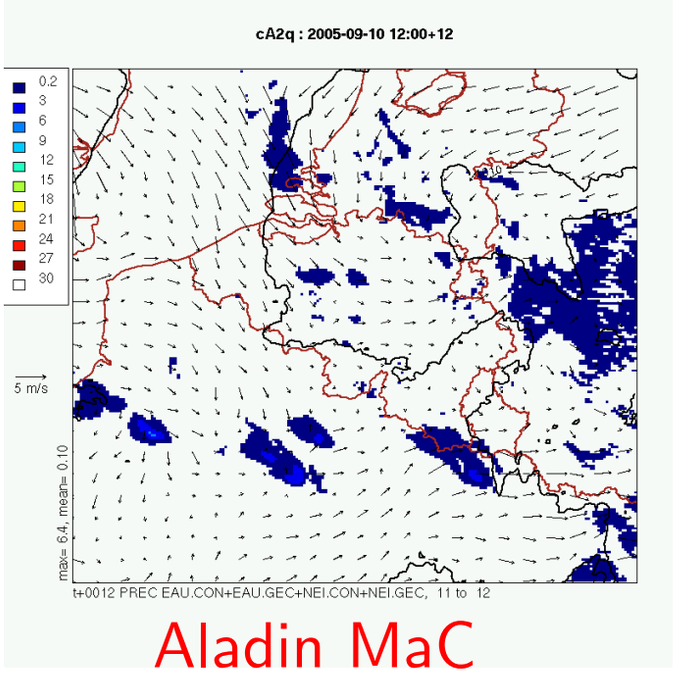
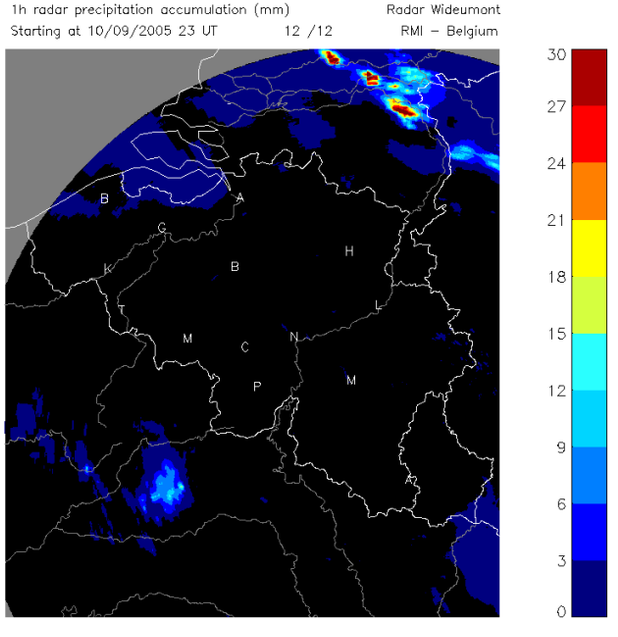


Aladin MaC

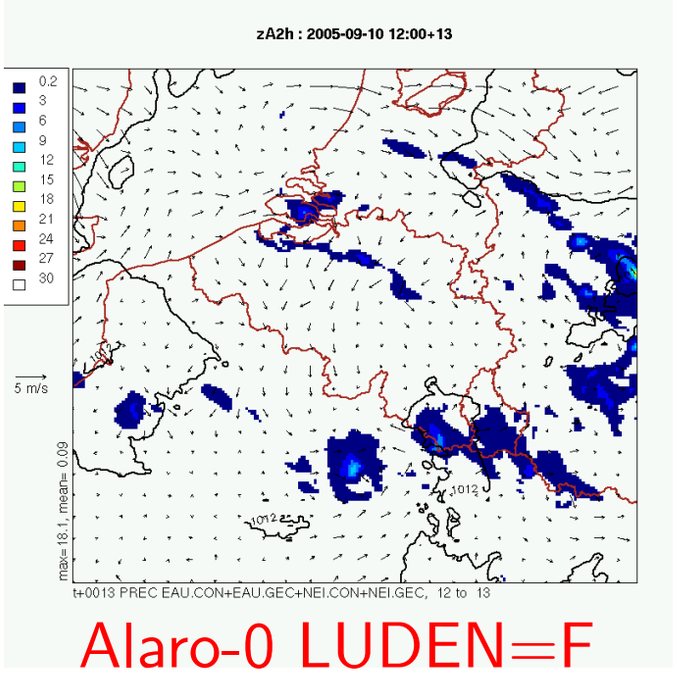
Radar



L. Gerard, 29 March 2007

Thunderstorms on Saturday 10 September 2005

2 km



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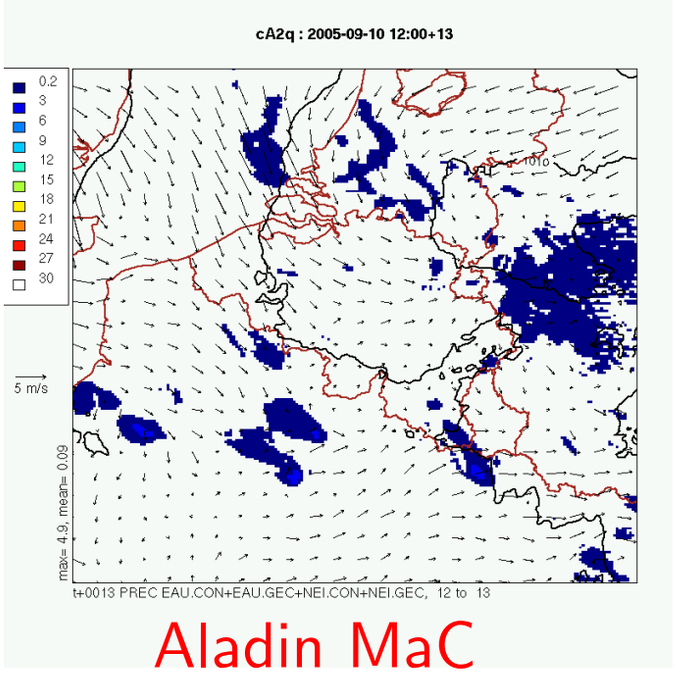

Aladin MaC

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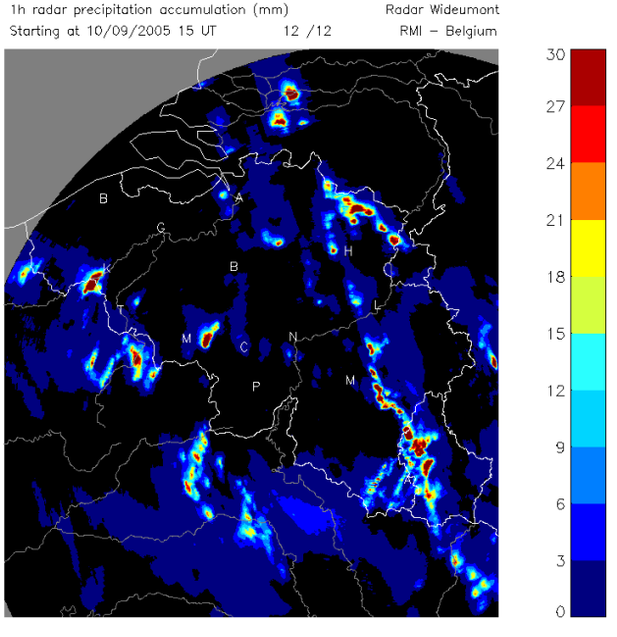
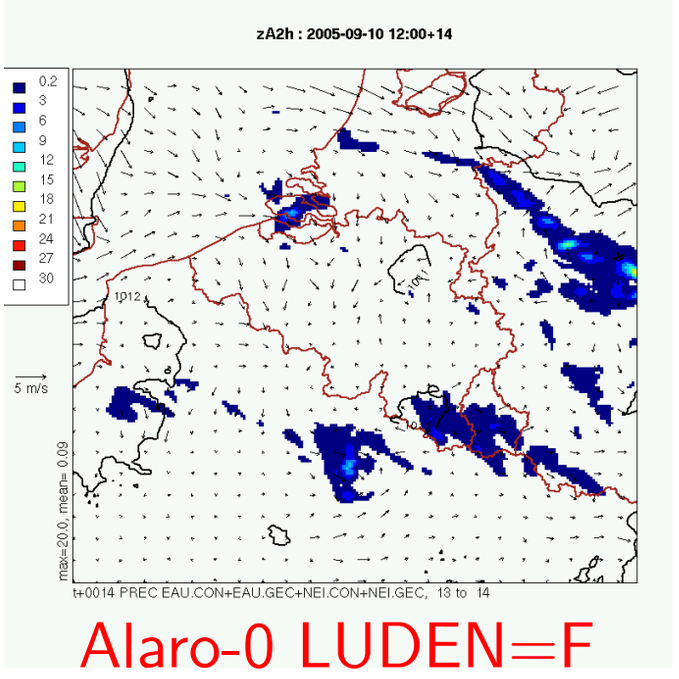


L. Gerard, 29 March 2007

Thunderstorms on Saturday 10 September 2005

2 km



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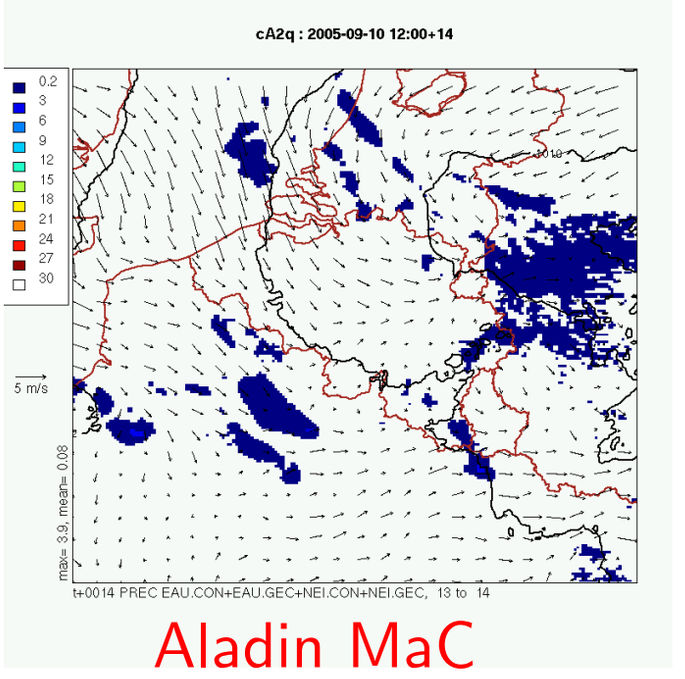
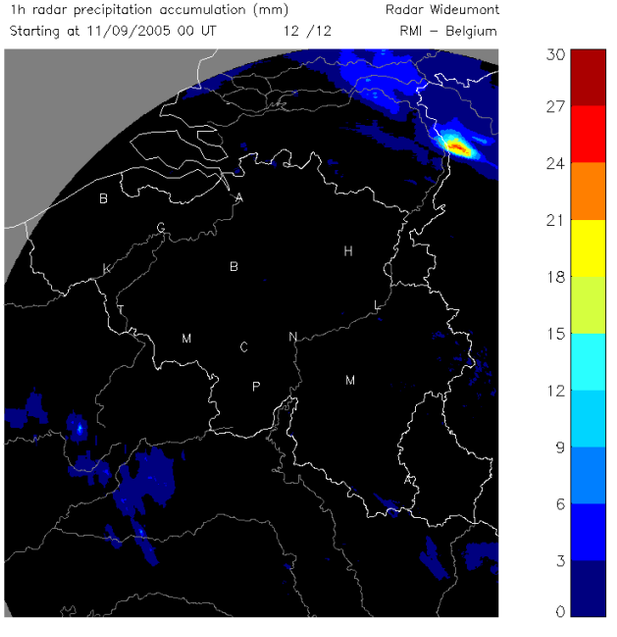


Aladin MaC

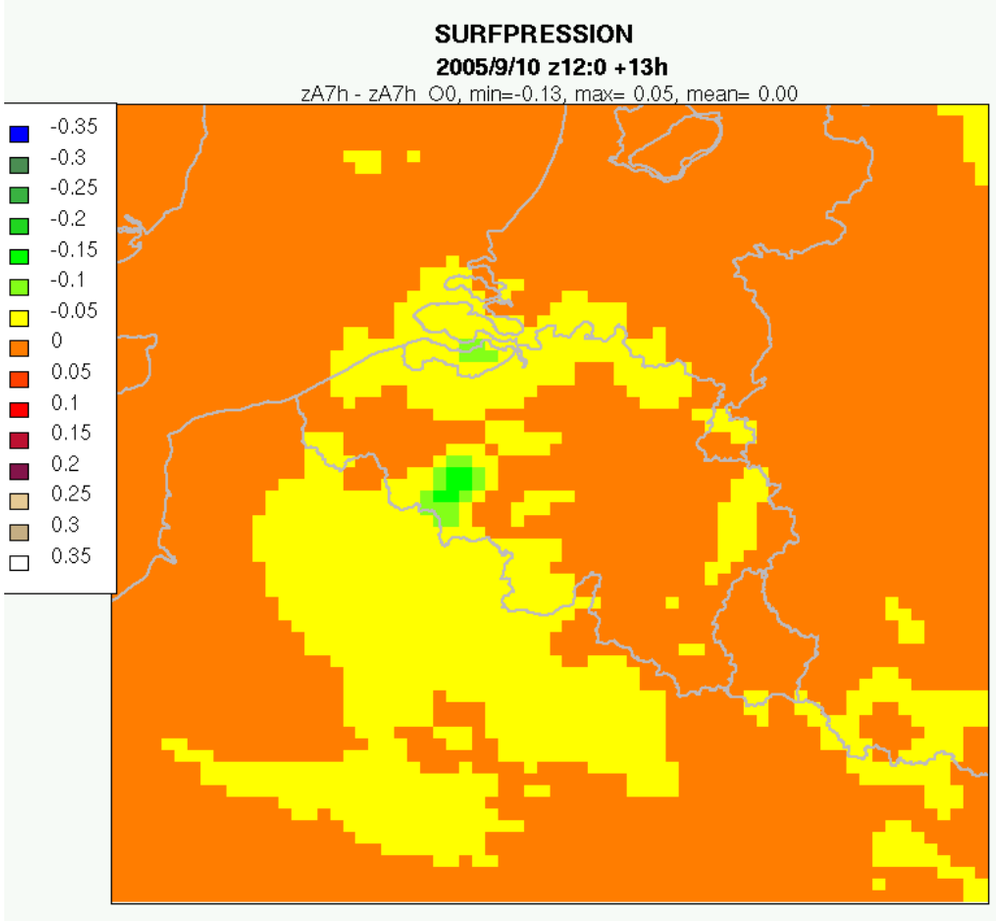
Radar

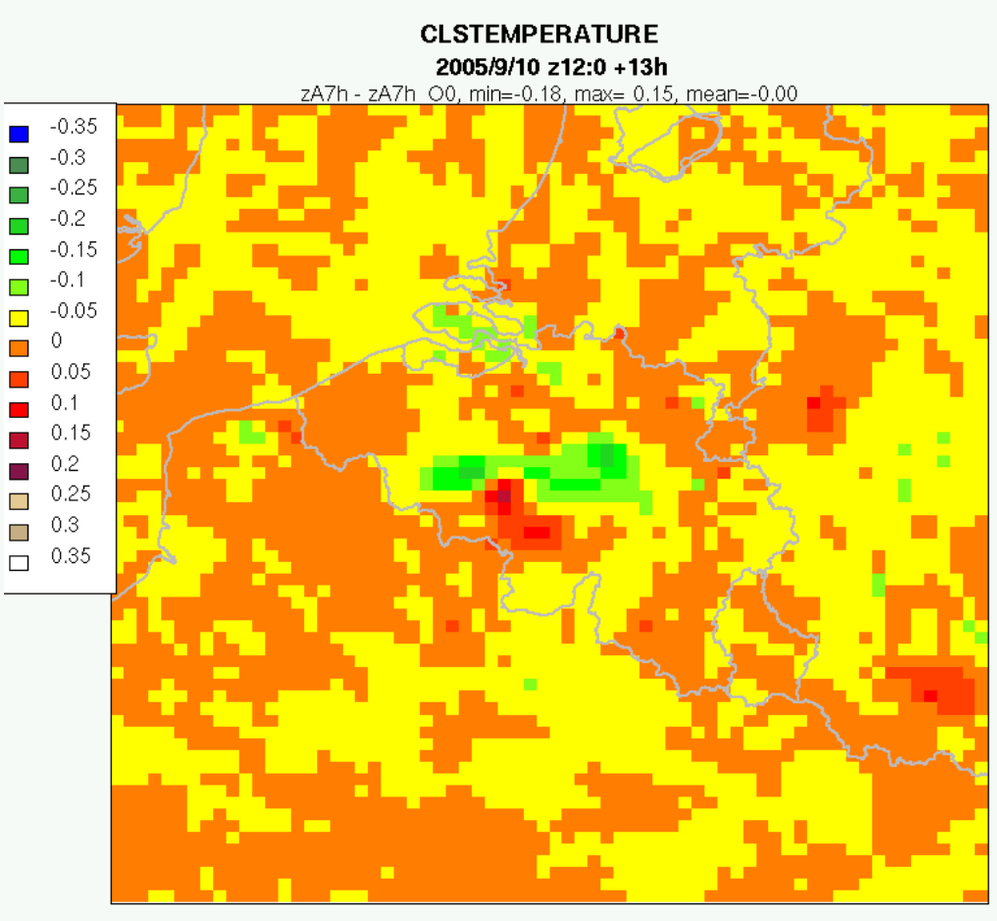


L. Gerard, 29 March 2007

Effect of binary optimization level

Differences $\psi(O3) - \psi(O0)$ for 3MT routines



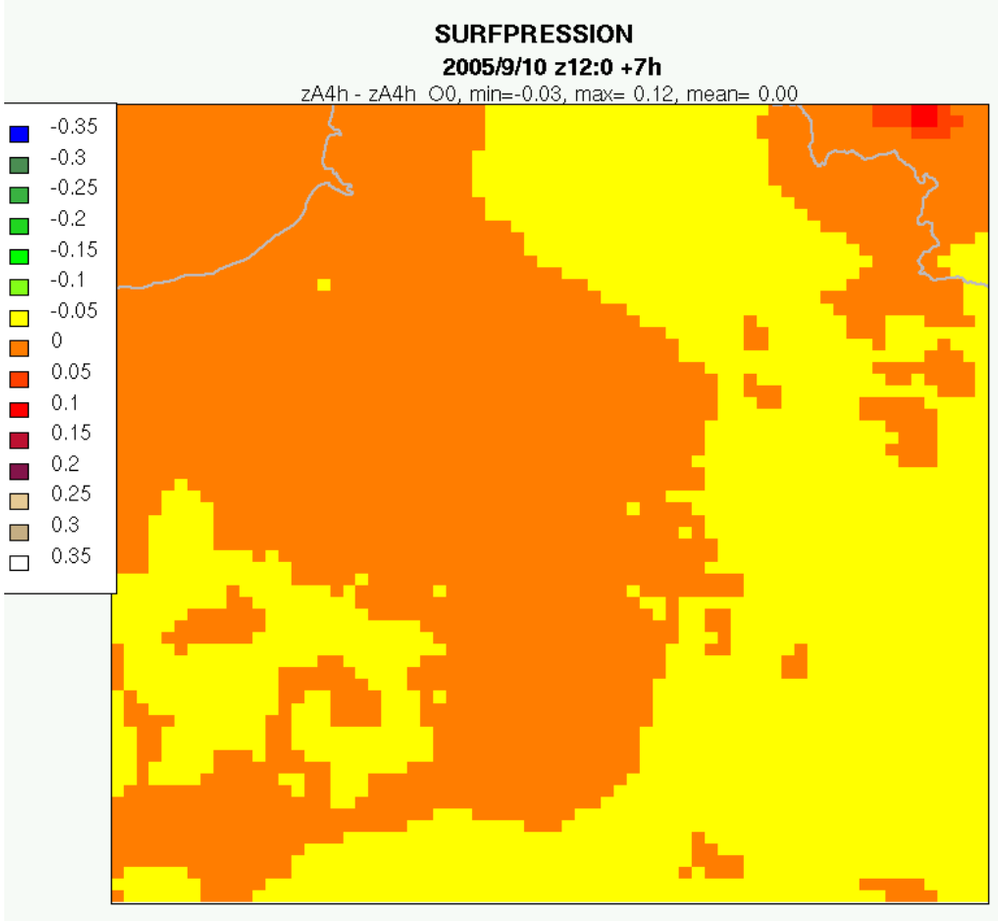


7km difference surface pressure

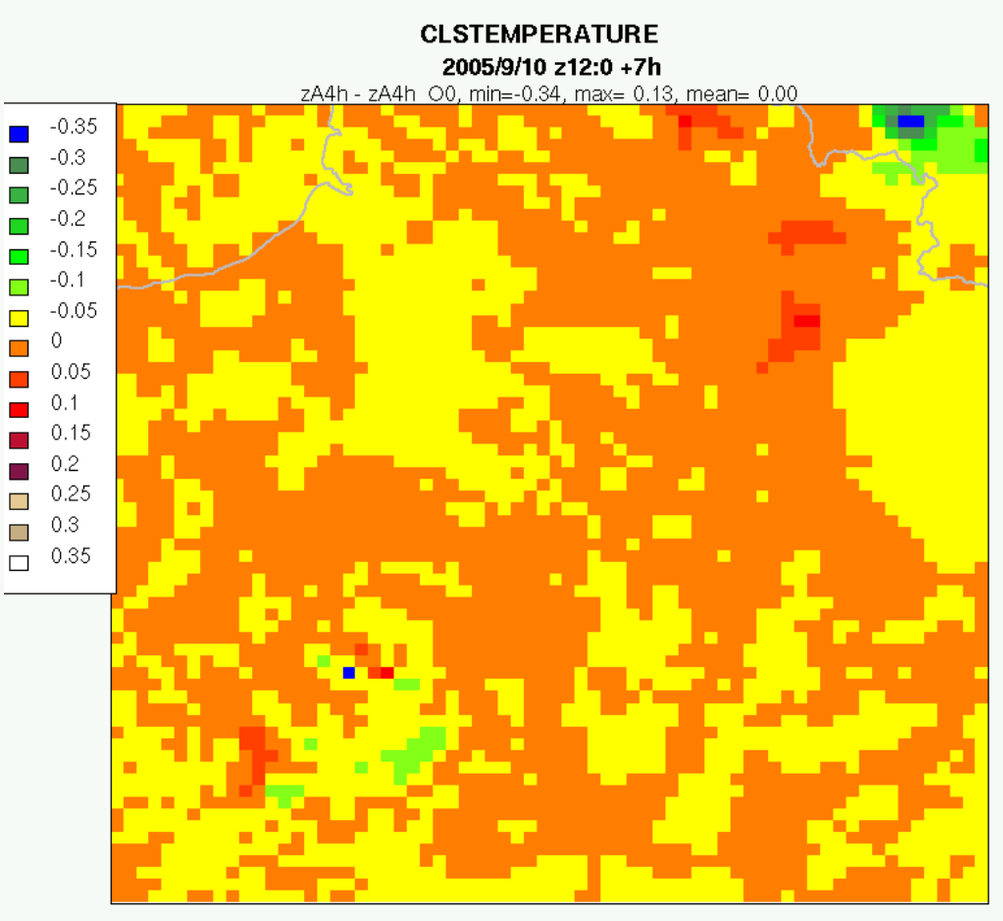
7km difference 2m T

Effect of binary optimization level

Differences $\psi(O3) - \psi(O0)$ for 3MT routines



4km difference surface pressure



4km difference 2m T