

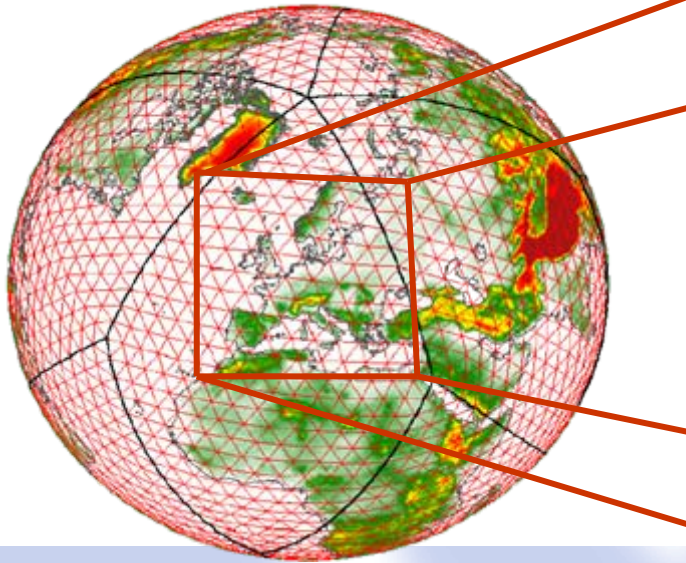
Mountain Waves

DWD's new tool to forecast lee waves

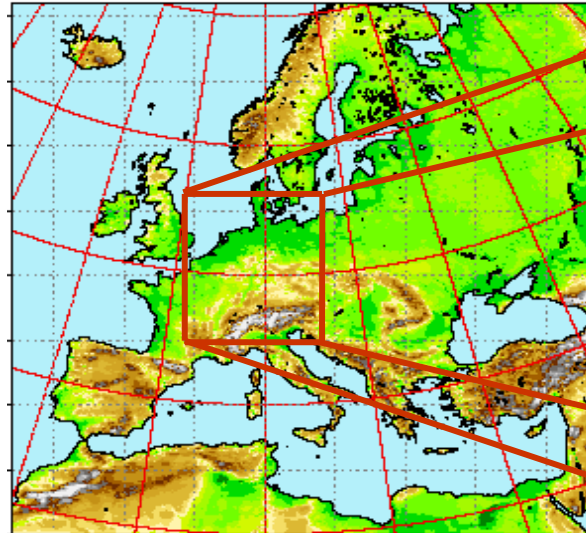


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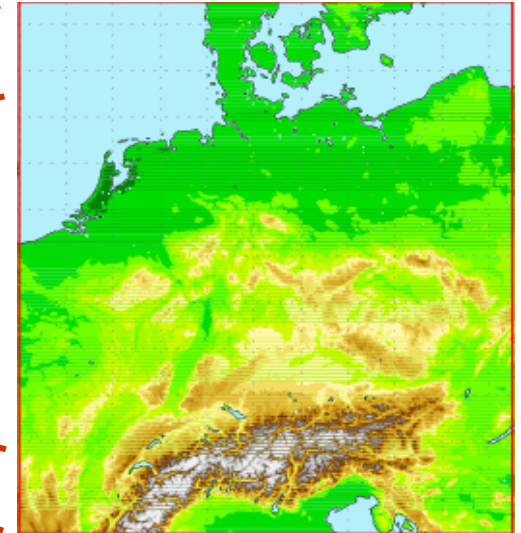
GME 40 km



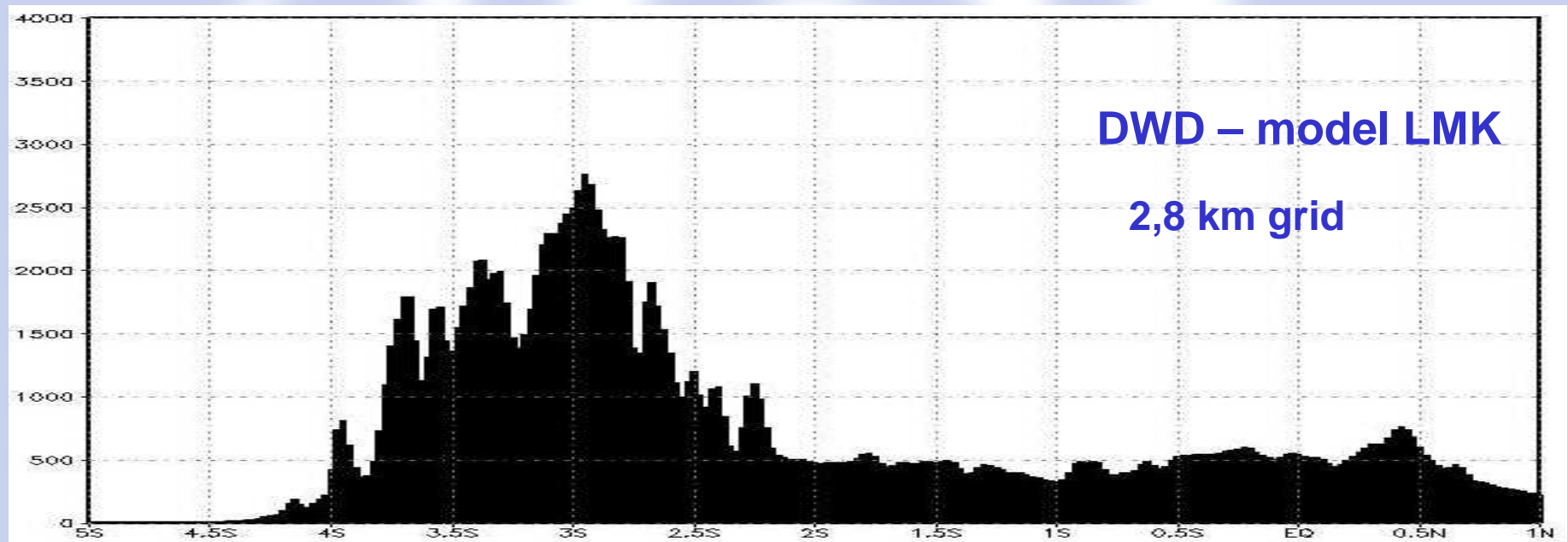
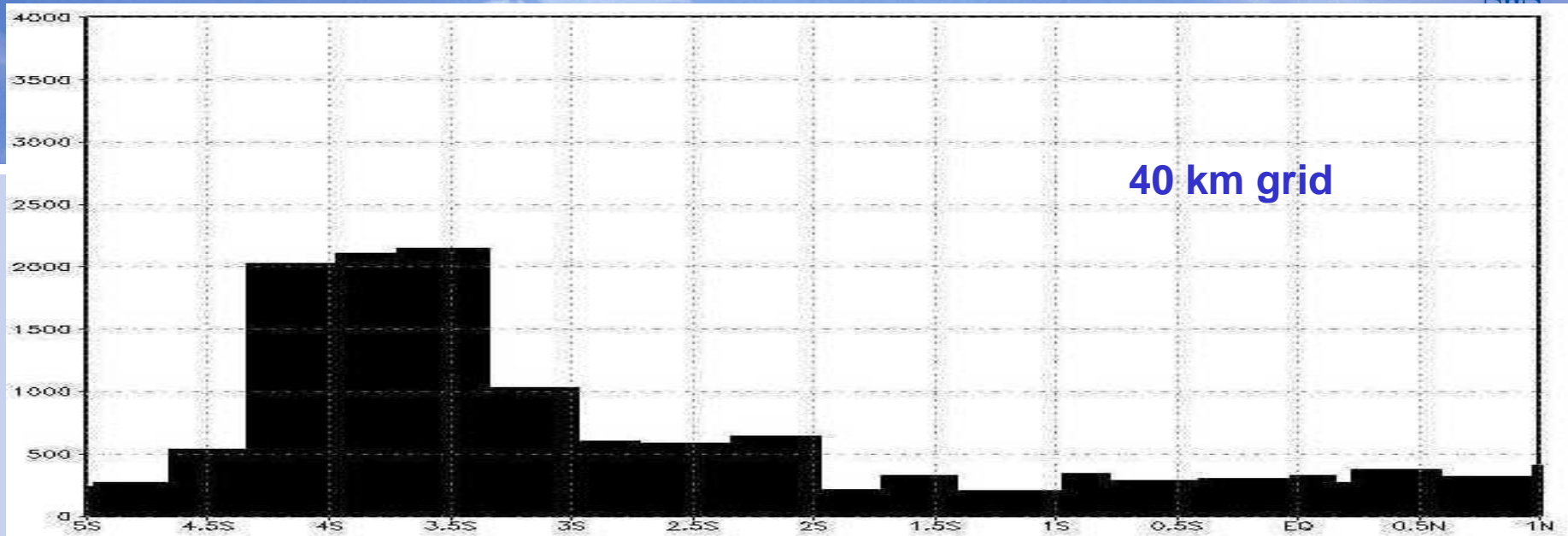
LME 7 km



LMK 2.8 km

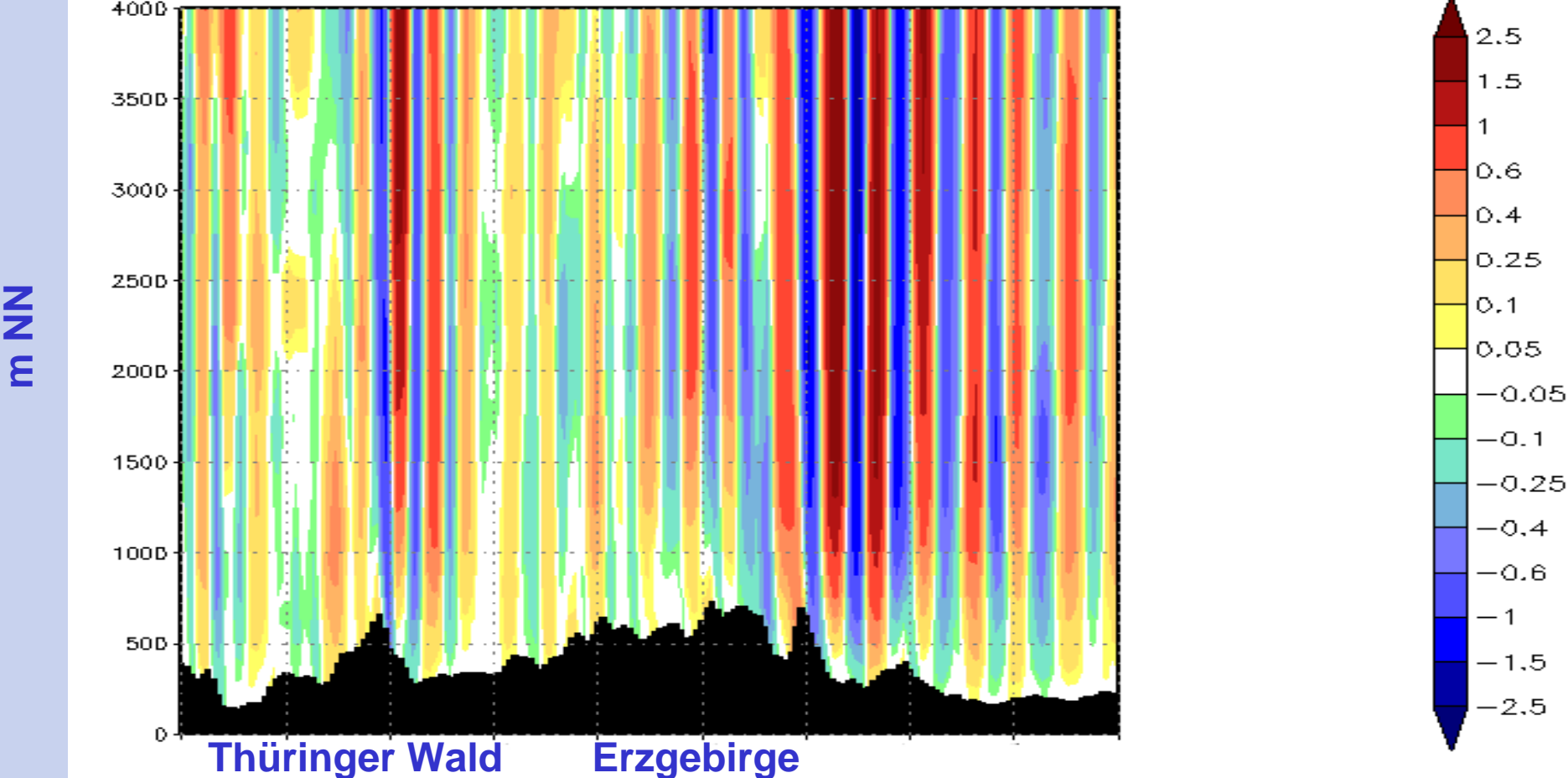


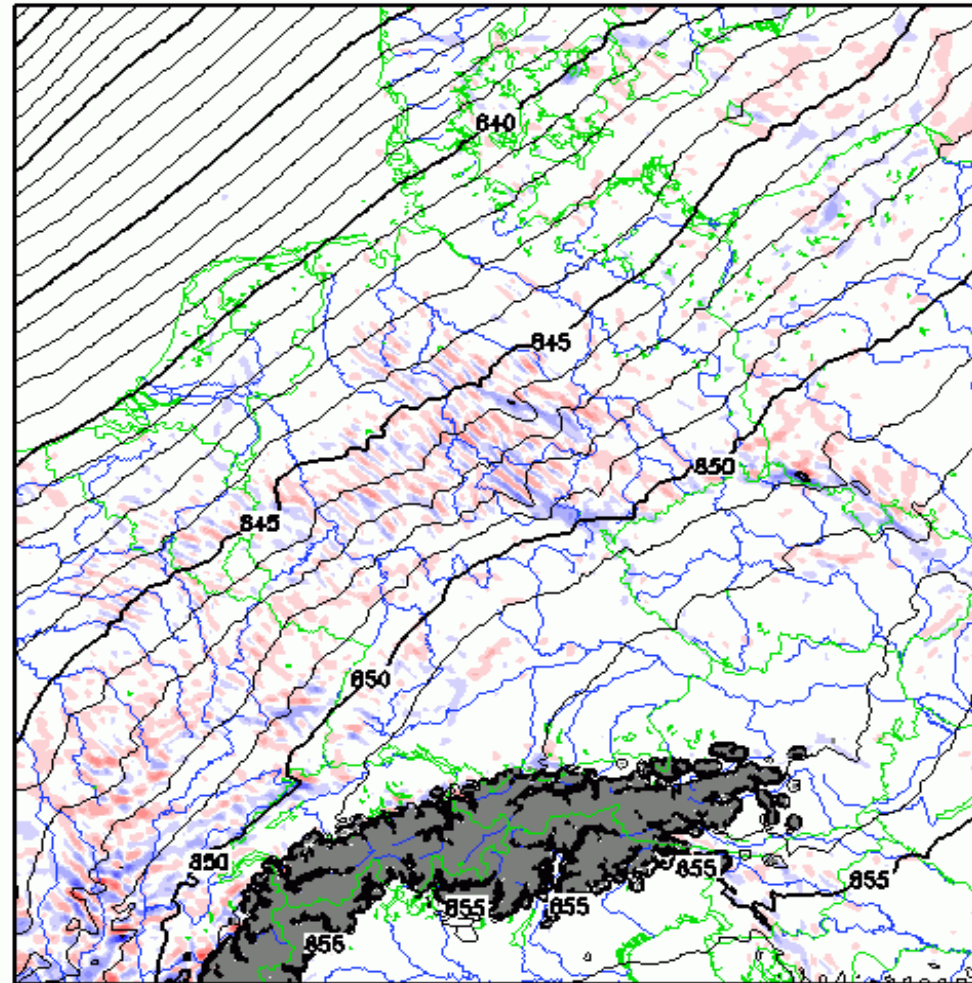
The operational model chain of DWD, consisting of GME, LME und LMK



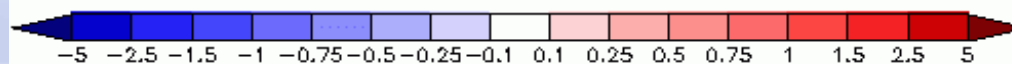


Forecast of vertical movement with LMK



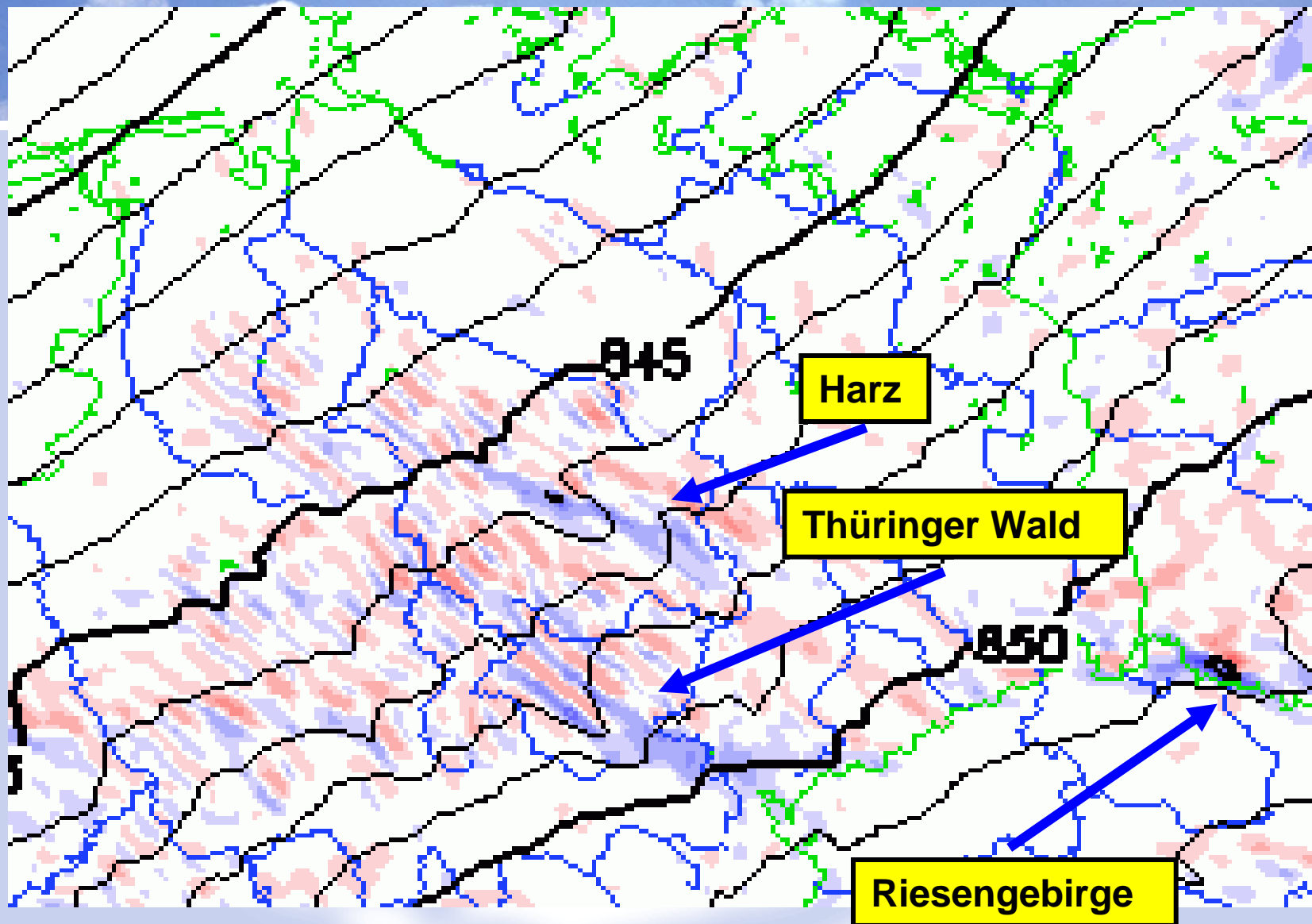


Mean: -0.00375745 Min: -1.73432 Max: 1.45758 Var: 0.0107164
 Mean: 846.259 Min: 808.95 Max: 857.095



Example of 26.10.06:

- Harz` wave up to 5000 m
- more than 100 wave flights in the NW part of Germany



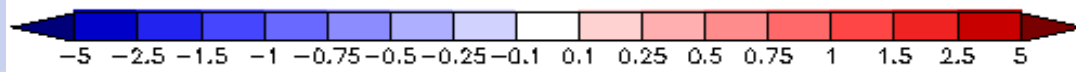
845

Harz

Thüringer Wald

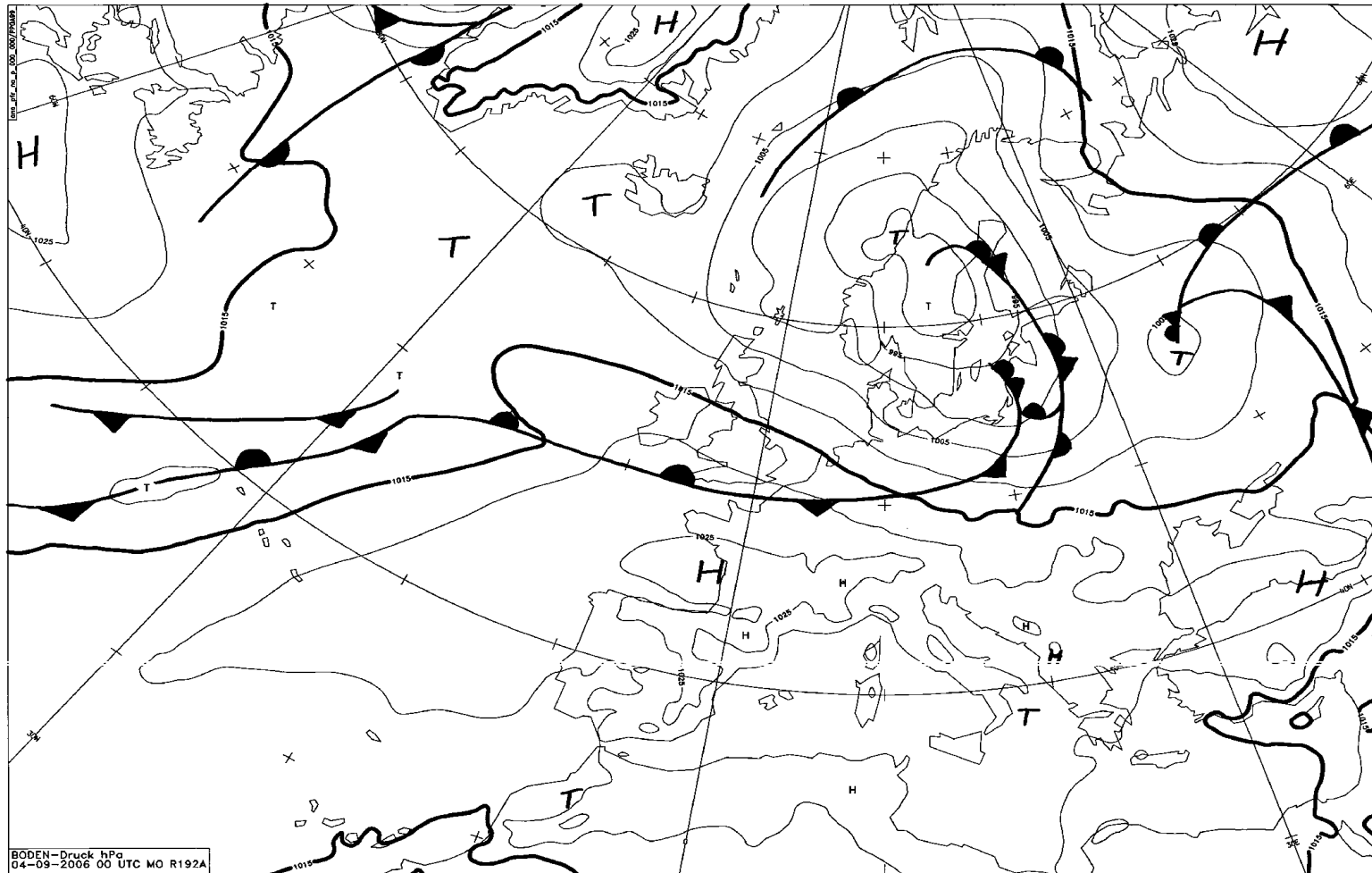
850

Riesengebirge

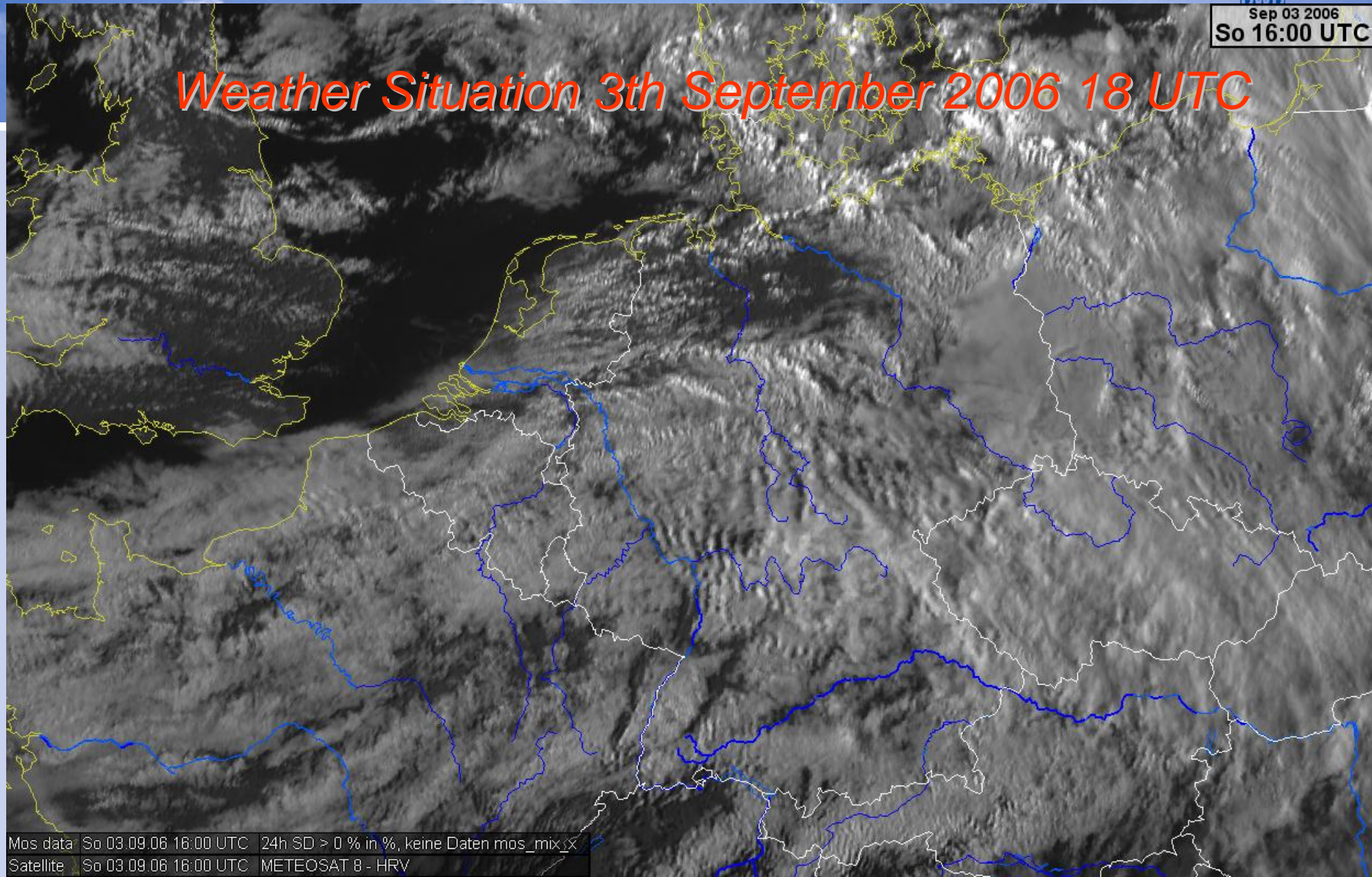


W1500m [m/sec]

Weather Situation 4th September 2006 00 UTC



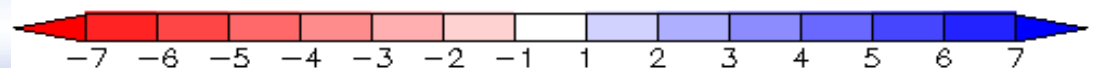
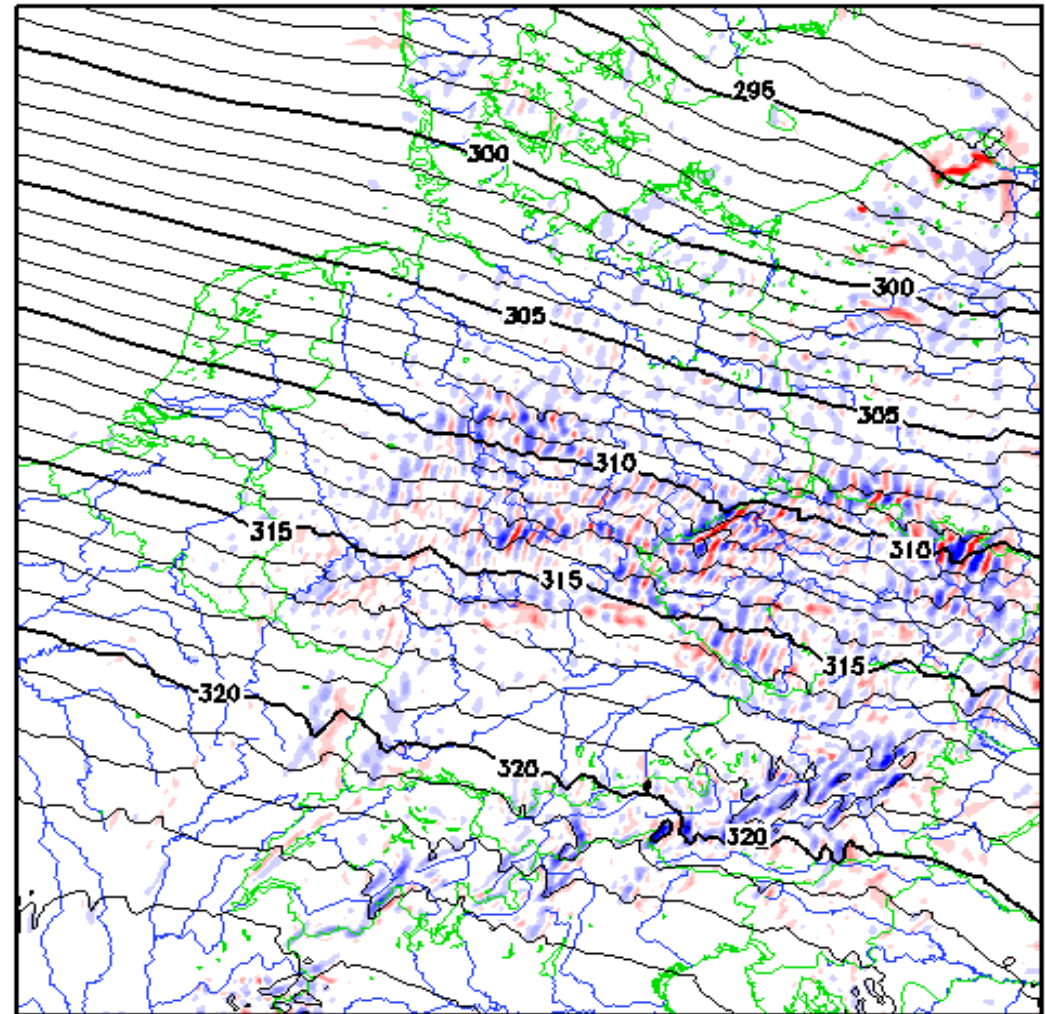
Weather Situation 3th September 2006 18 UTC

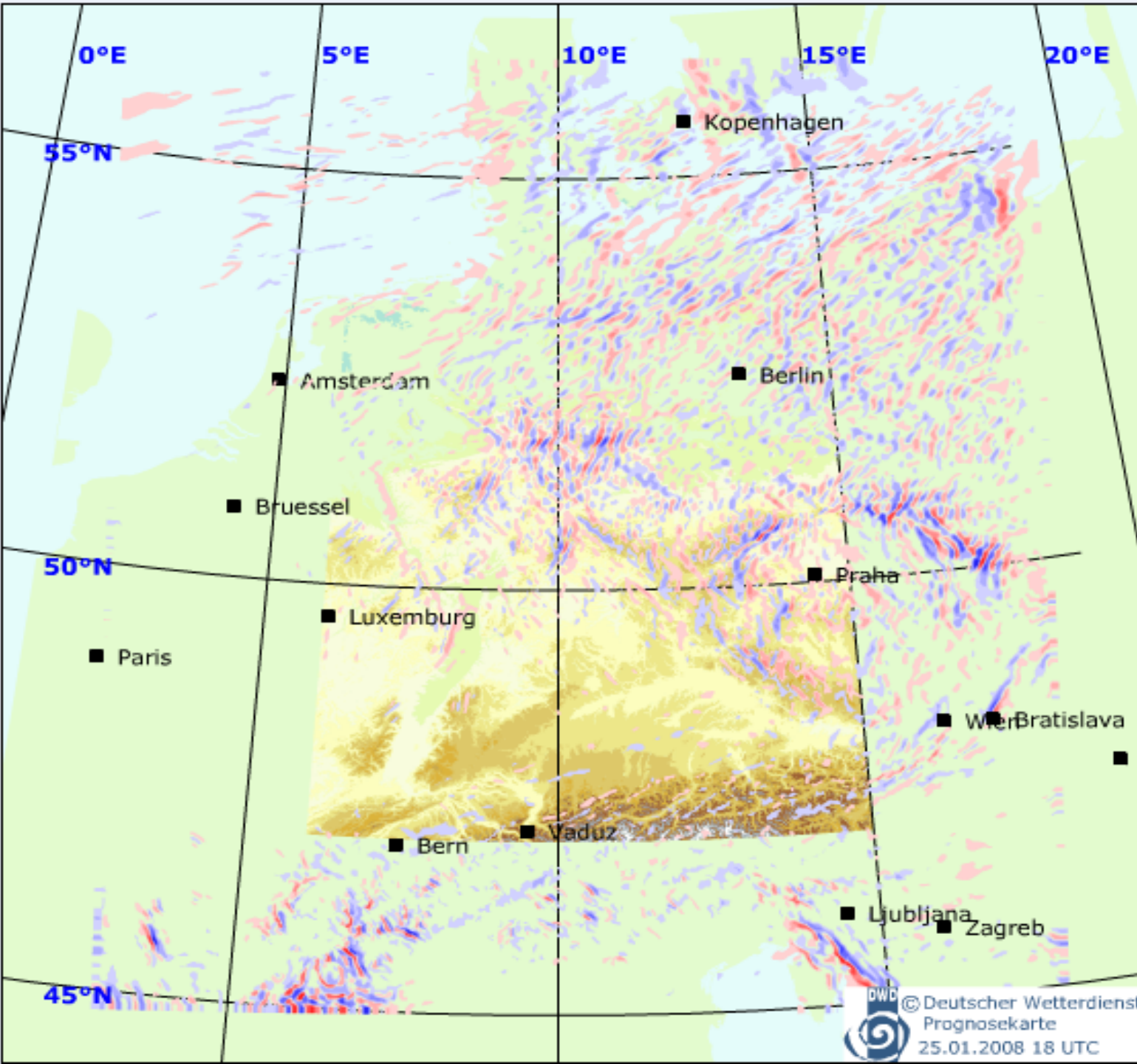


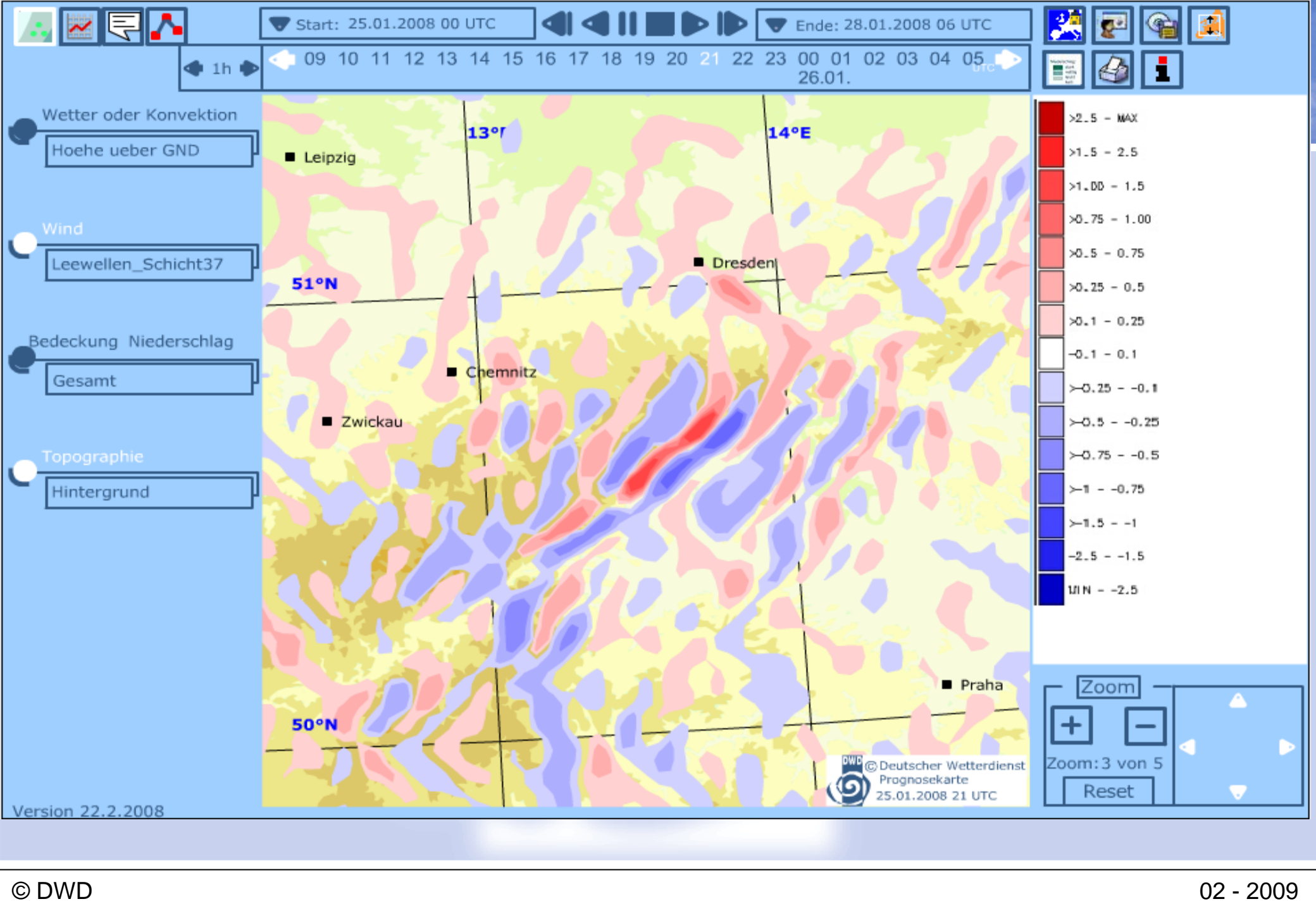
Mos data So 03.09.06 16:00 UTC 24h SD > 0 % in %, keine Daten mos_mix
Satellite So 03.09.06 16:00 UTC METEOSAT 8 - HRV

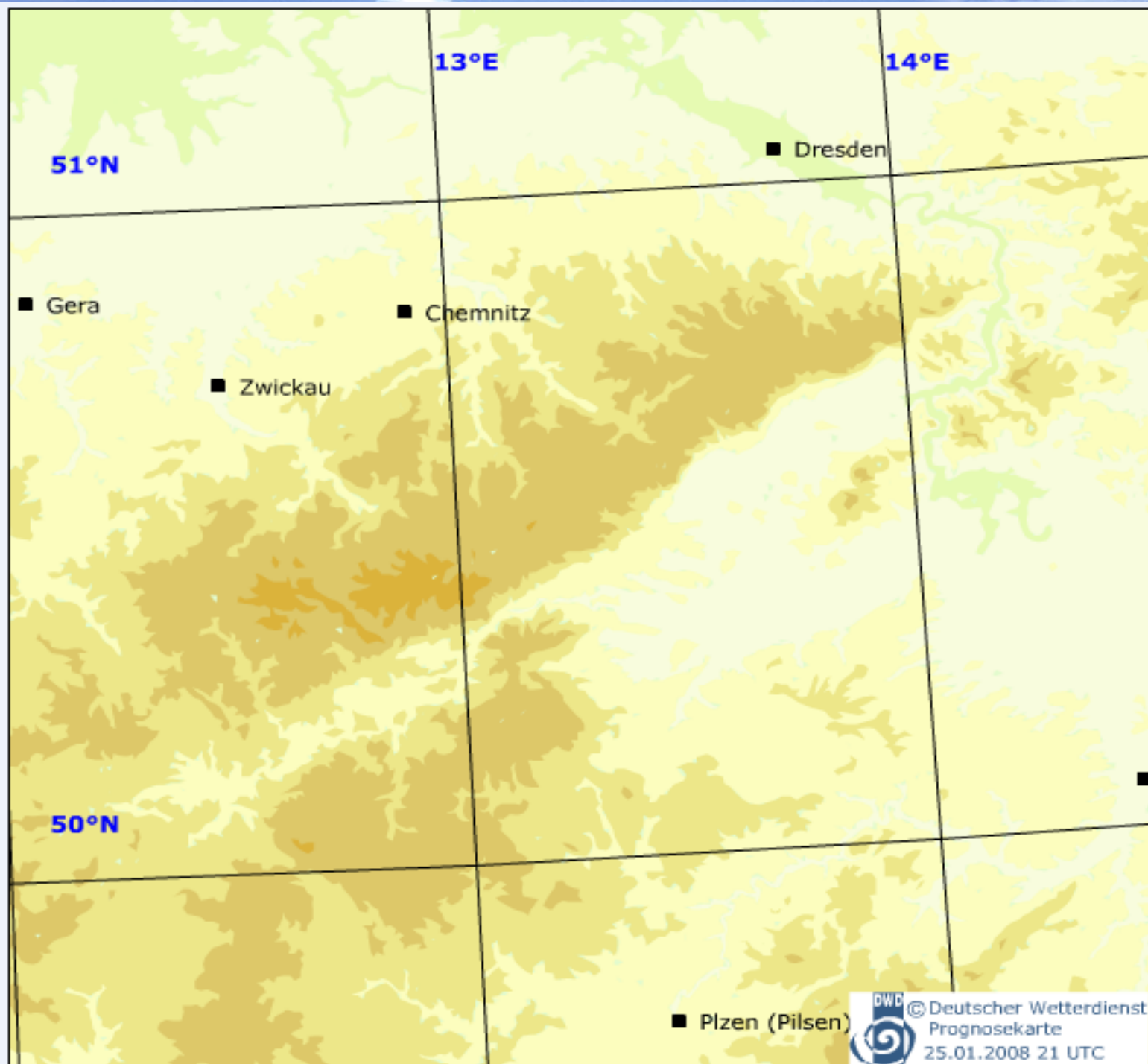
Forecasted mountain waves (700 hPa) in a north westerly air stream

LMK-Forecast
of 3rd September 2006 12 UTC
for 4th September 2006 03 UTC





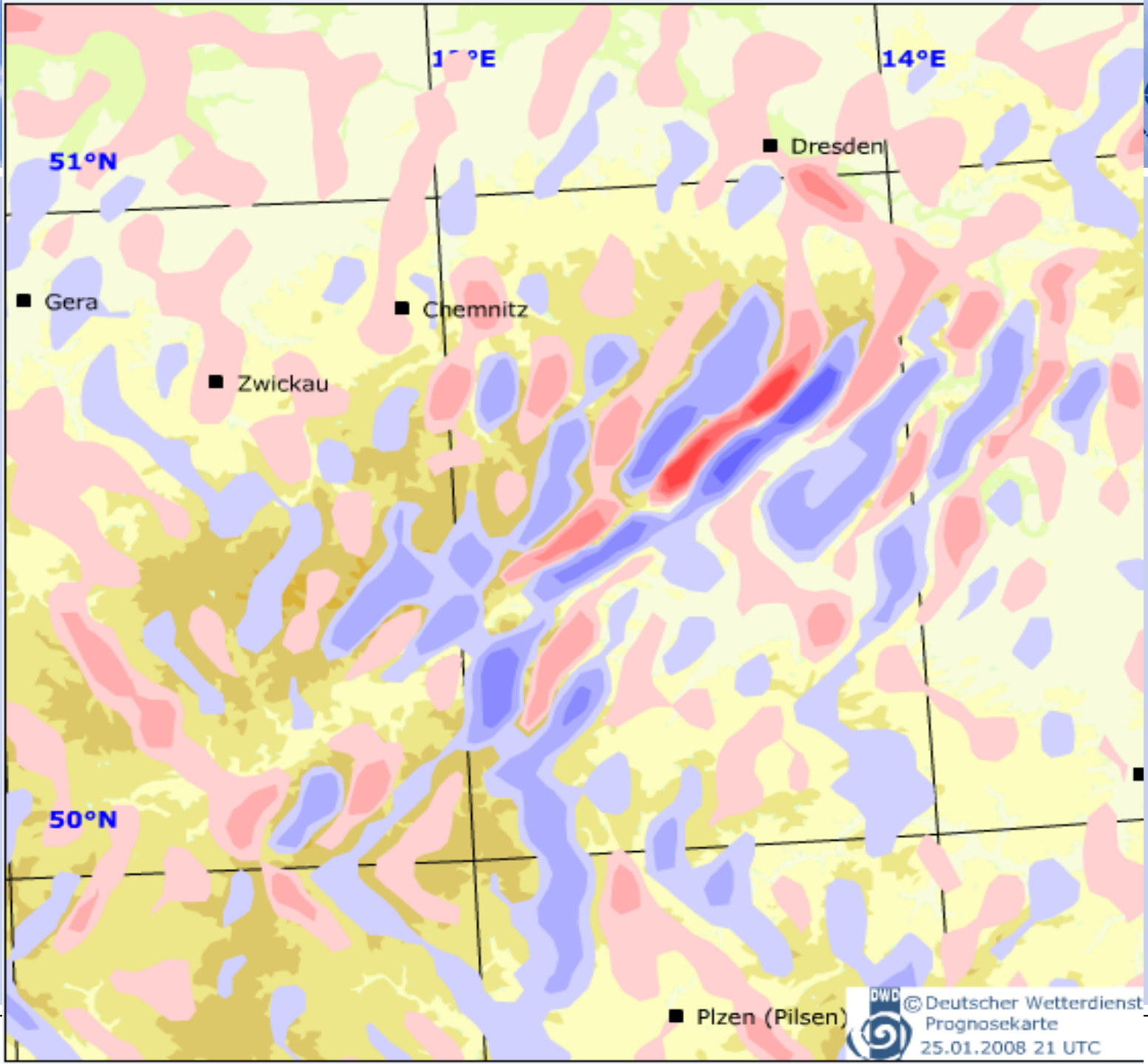




■ Pilsen (Pilsen)



© Deutscher Wetterdienst
Prognosekarte
25.01.2008 21 UTC



51°N

12°E

14°E

■ Dresden

■ Gera

■ Chemnitz

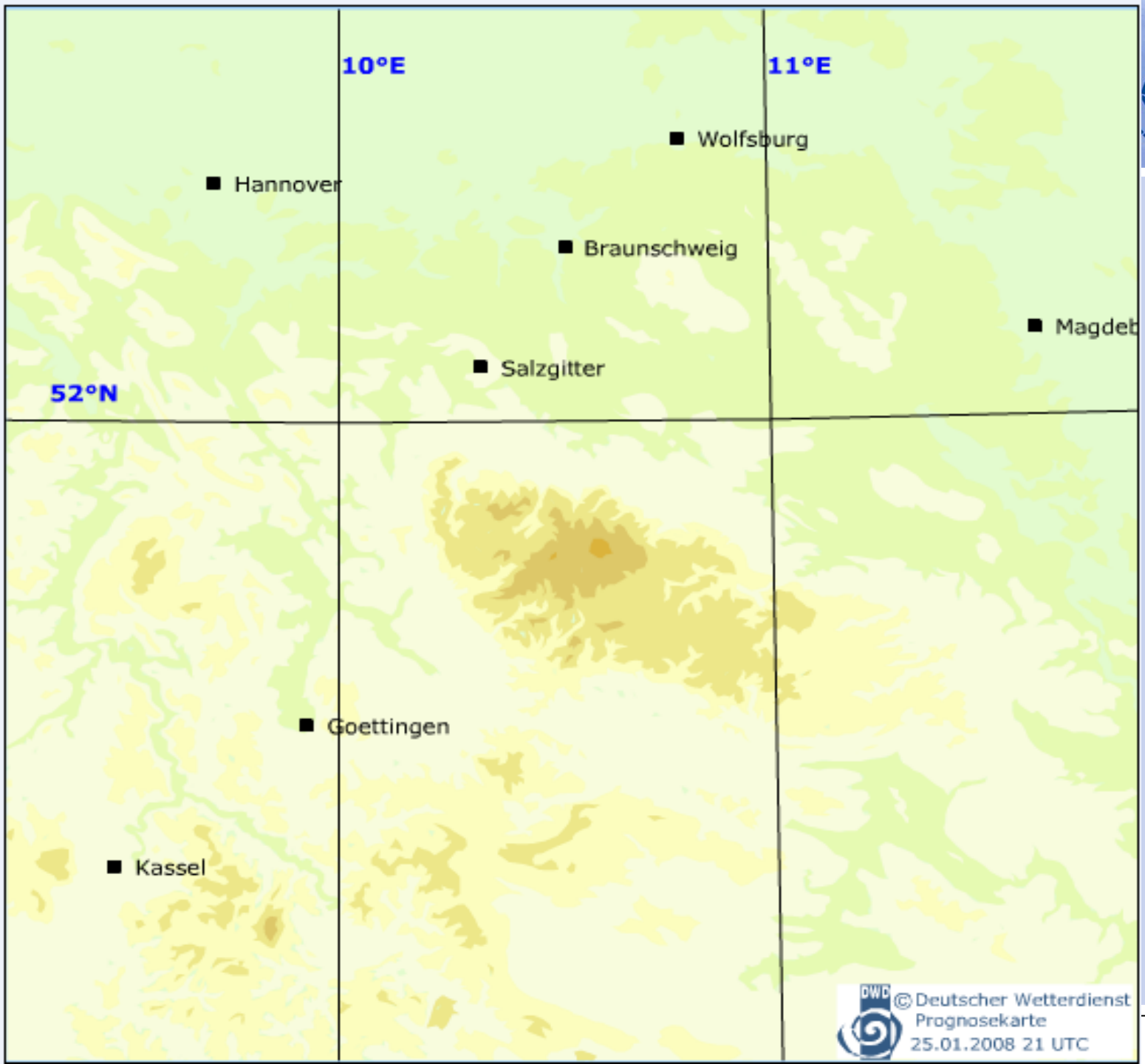
■ Zwickau

50°N

■ Plzen (Pilsen)



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Prognosekarte
25.01.2008 21 UTC



10°E

11°E

52°N

■ Hannover

■ Wolfsburg

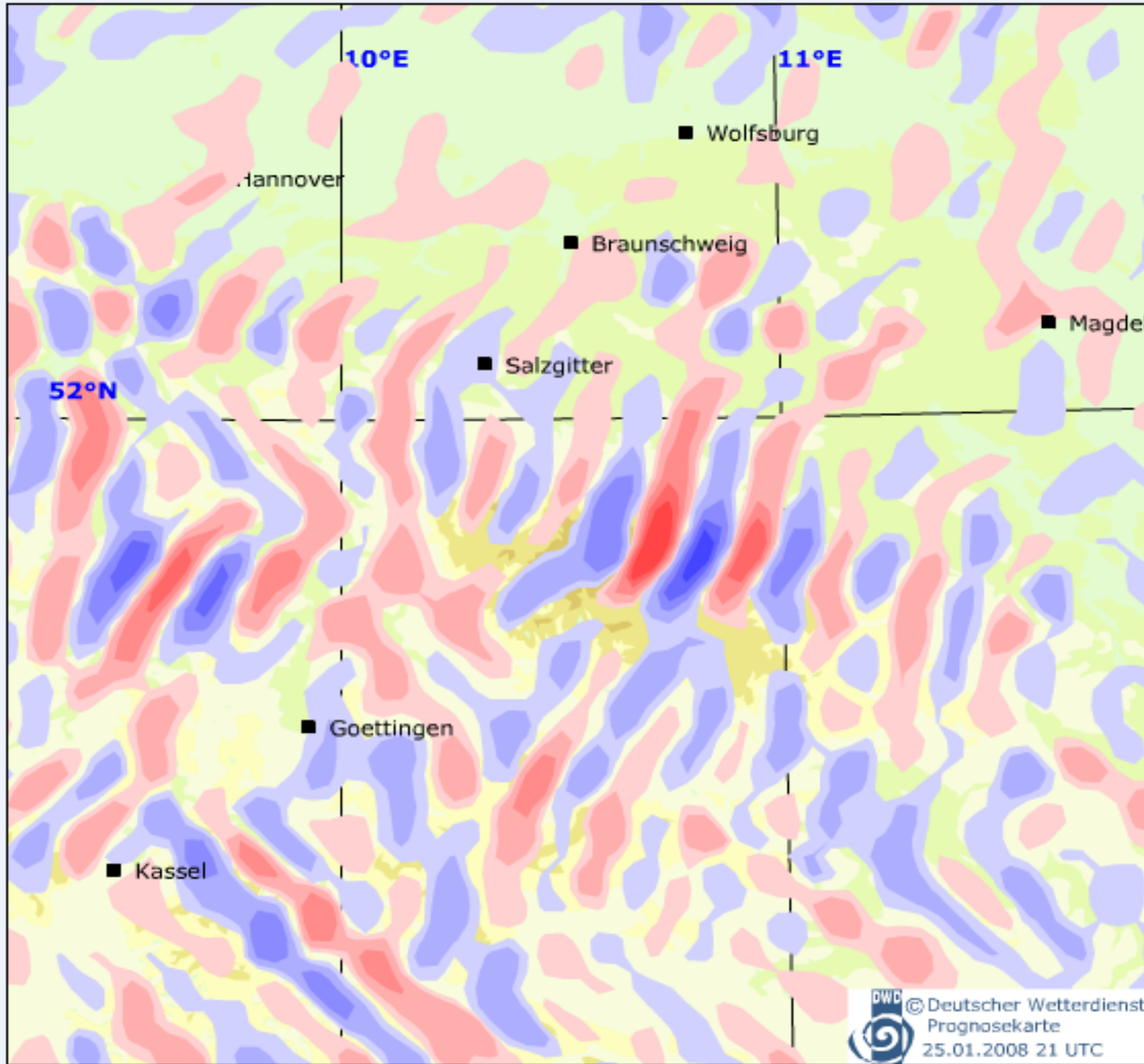
■ Braunschweig

■ Magdeburg

■ Salzgitter

■ Goettingen

■ Kassel



10°E

11°E

52°N

Hannover

Wolfsburg

Braunschweig

Magde

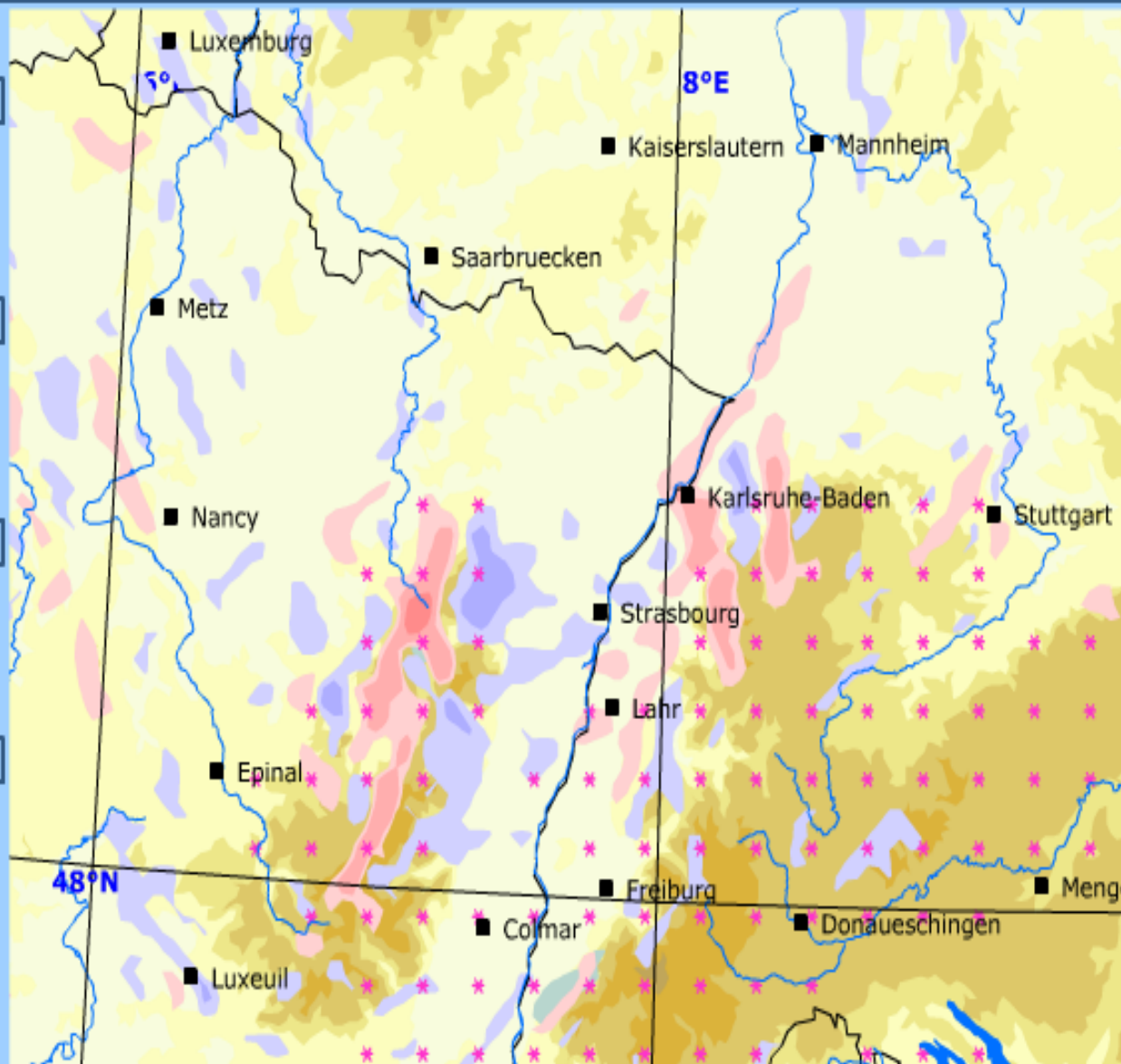
Salzgitter

Goettingen

Kassel



- Wetter
 - Wetter
- Wind
 - Leewellen FL100
- Bedeckung Niederschlag
 - Gesamt
- Topographie
 - Hintergrund



Wettersymbole:

Sprühregen:	leicht	leicht gefr.
Regen:	leicht	mäßig
Regen:	stark	
Regen, gefr.:	leicht	stark
Regenschauer:	leicht	mäßig
Regenschauer:	stark	
Schneefall:	leicht	mäßig
Schneefall:	stark	
Schneeschauer:	leicht	stark
Gewitter:	m. Regen	m. Hagel
Nebel:	☁	
Dunst:	∞	

Niederschlag (mm/h)

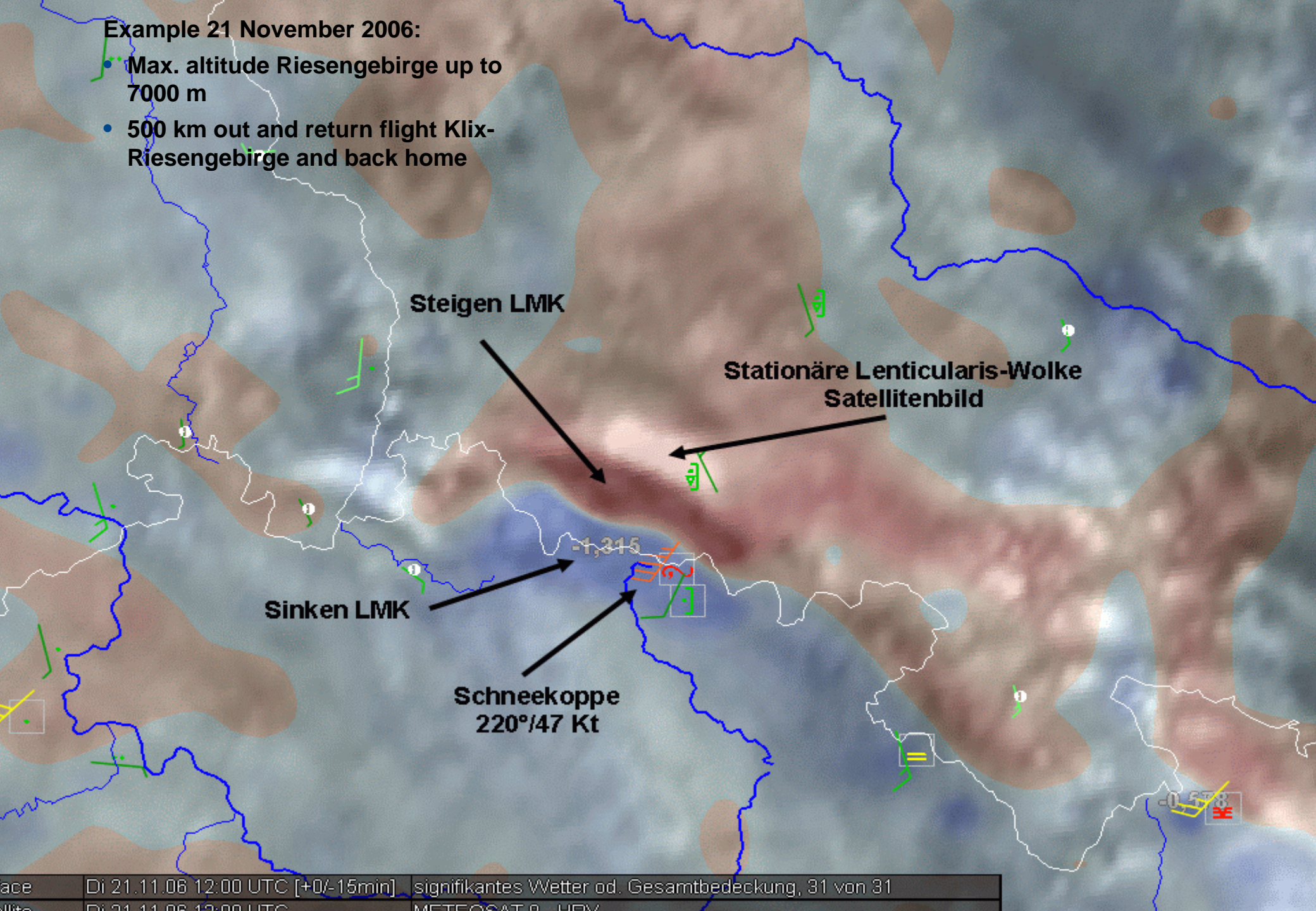
stark > 4
mäßig > 0,5
leicht > 0,1

Leewellen (m/s)

2,5- max	min - -2,5
1,5 - 2,5	-1,5 - -2,5
1 - 1,5	-1 - -1,5
0,75 - 1,0	-0,75 - -1,0
0,5 - 0,75	-0,5 - -0,75
0,25 - 0,5	-0,25 - -0,5
0,1 - 0,25	-0,1 - -0,25
-0,1 - 0,1	

Example 21 November 2006:

- Max. altitude Riesengebirge up to 7000 m
- 500 km out and return flight Klix-Riesengebirge and back home



Mountain Wave (Hohe Woge) at 05 December 2007

