



# Wave Flying at Oppdal

in Norway

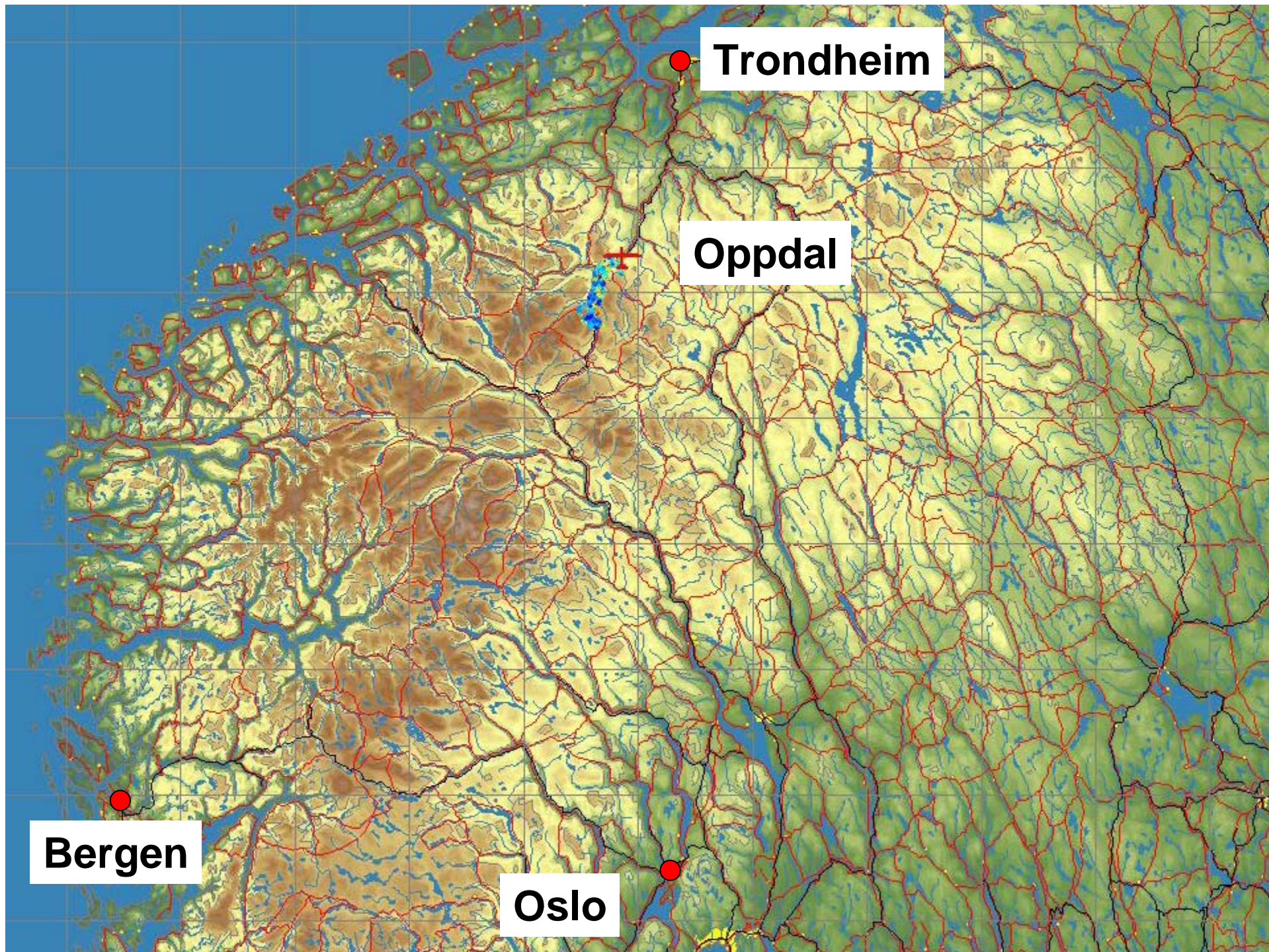
October 2006

Thomas Seiler  
Ostiv Workshop  
Berlin, November 2006

Where?









# The airfield

Oppdal-Fagerhaug  
ELEV 559m  
63°N – 10°E  
Runway 1000m asphalt





# The club – NTH Flyklubb



Gliding club of the Technical University of Trondheim  
They fly in Elverum from April to August  
Rest of the year in Oppdal, also during winter  
Waves are something „normal“.

07-October – „Southerly flow“





# 01241 ENOL Orland

100

200

300

400

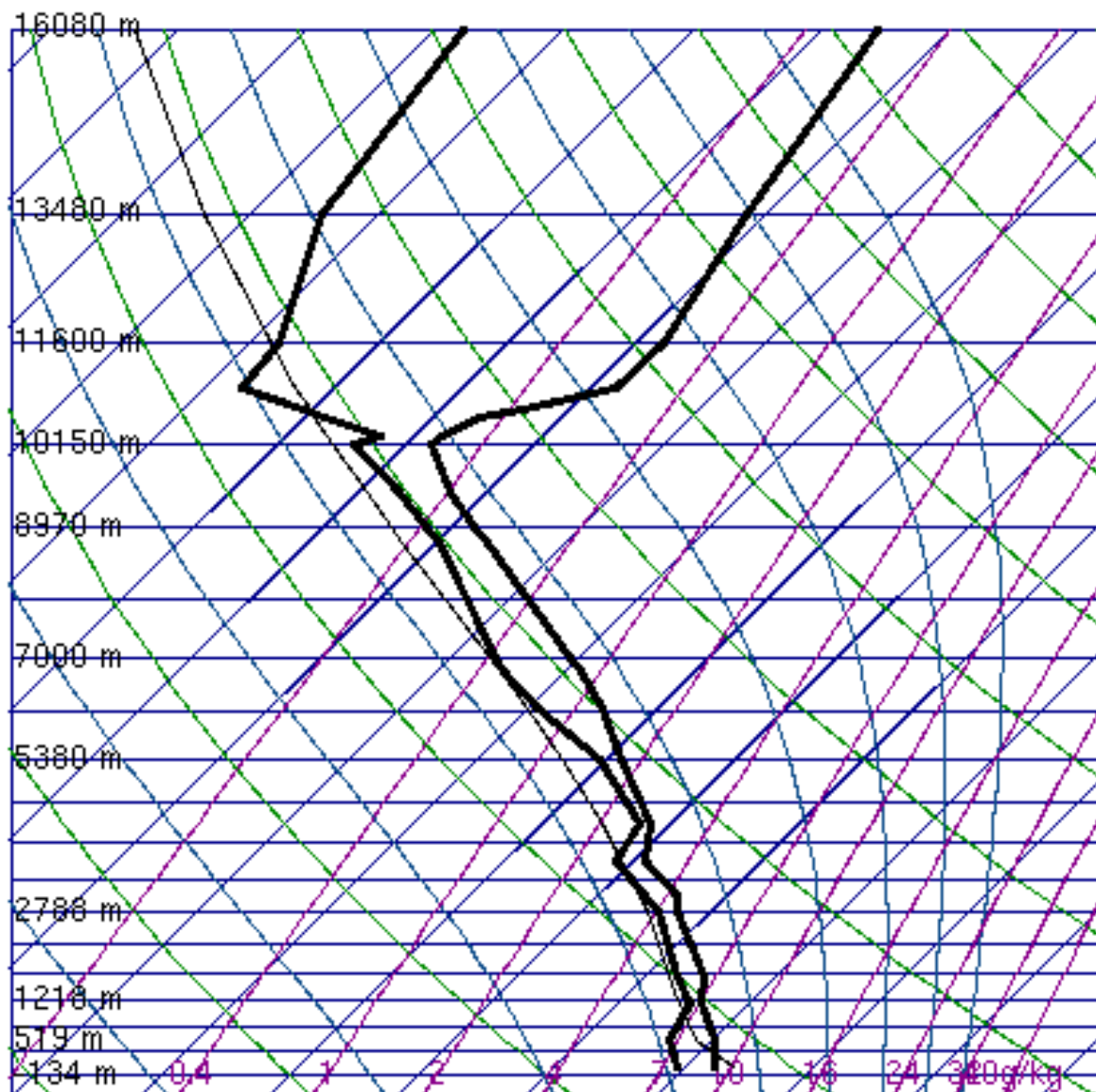
500

600

700

800

900



SLAT 63.70  
 SLON 9.60  
 SELV 10.00  
 SHOW 2.58  
 LIFT 4.55  
 LFTV 4.60  
 SWET 177.0  
 KINX 28.60  
 CTOT 23.90  
 VTOT 24.90  
 TOTL 48.80  
 CAPE 0.00  
 CAPV 0.00  
 CINS 0.00  
 CINV 0.00  
 EQLV -9999  
 EQTV -9999  
 LFCT -9999  
 LFCV -9999  
 BRCH 0.00  
 BRCV 0.00  
 LCLT 280.5  
 LCLP 908.6  
 MLTH 288.3  
 MLMR 7.15  
 THCK 5514.  
 PWAT 23.98

12Z 07 Oct 2006

University of Wyoming

08-October – „Föhn-Gap over Oppdal“





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100

200

300

400

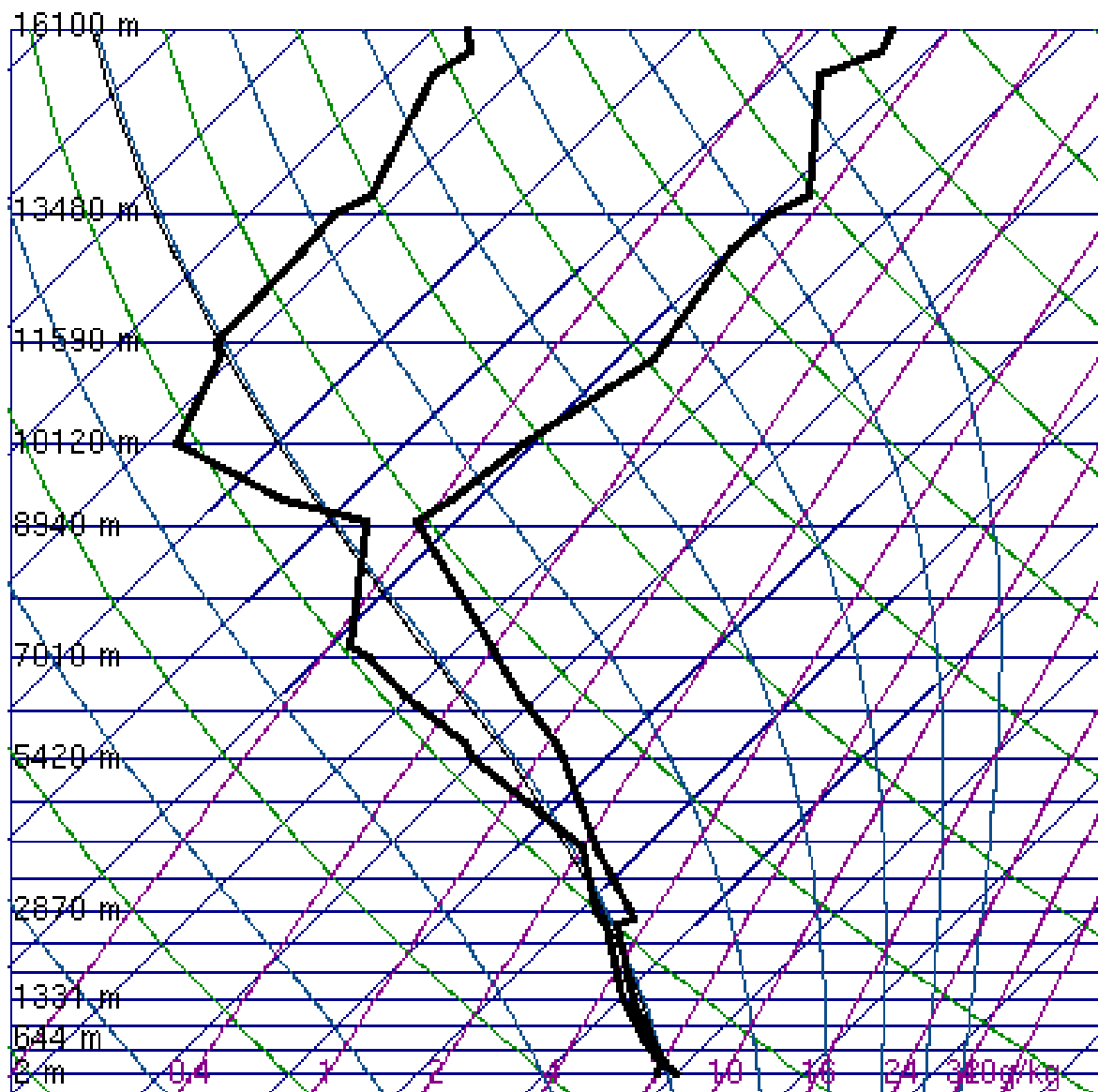
500

600

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900



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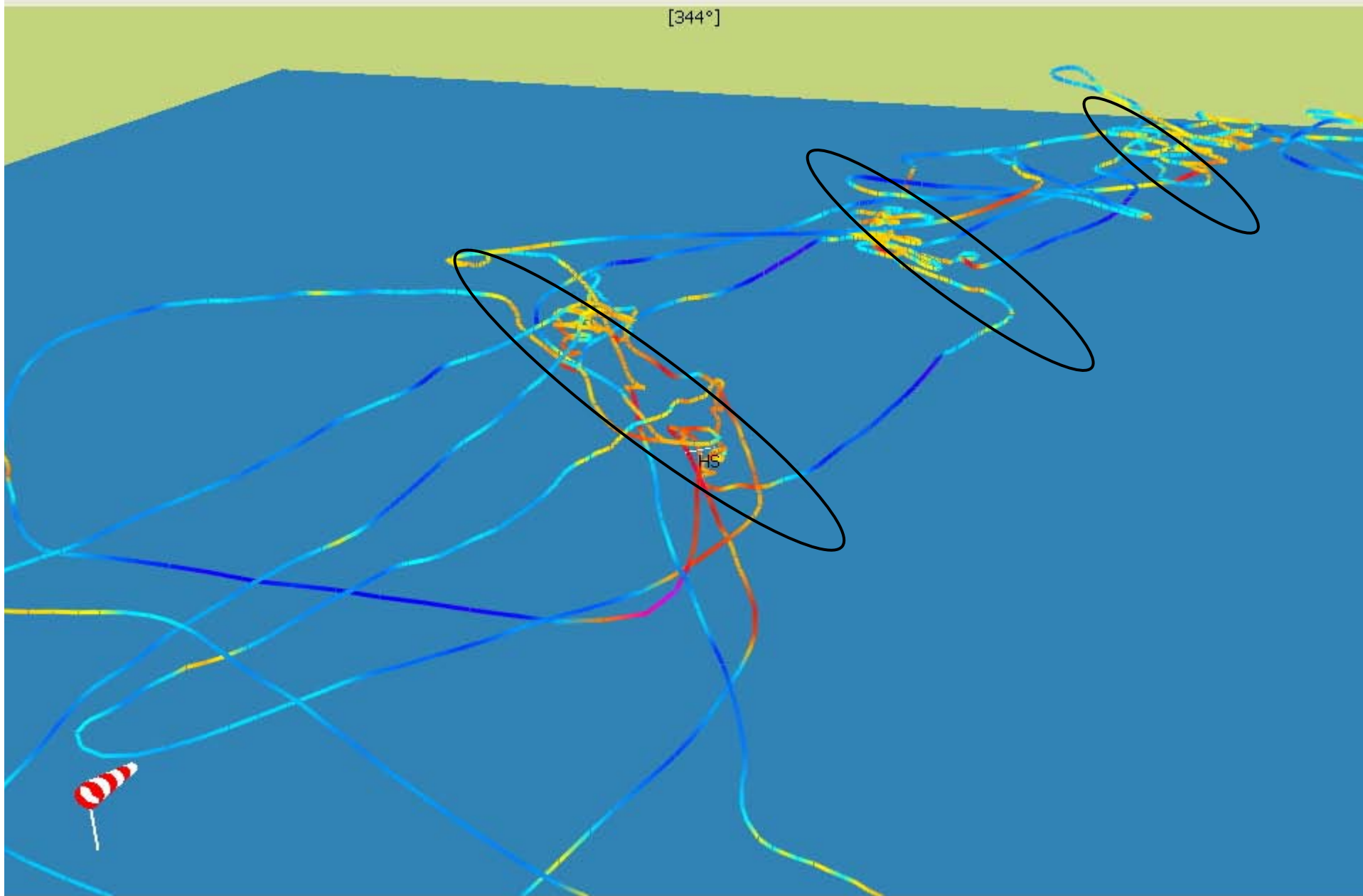


09-October – „rotor or roll cloud?”



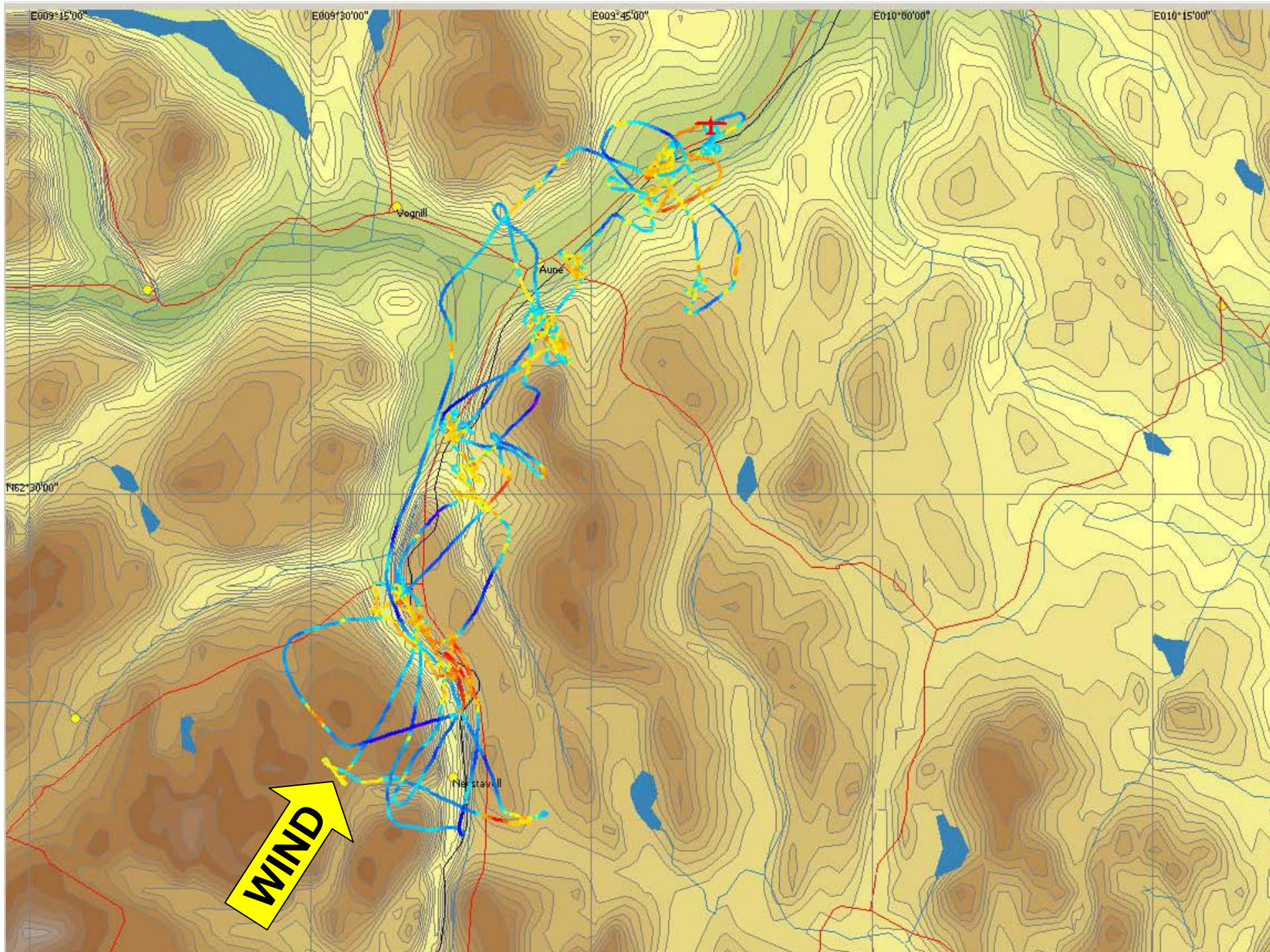
Lift at windward side of cloud up to 10 m/s  
No strong turbulence

[344°]



Zeit	Höhe	Vario	VGd.	dt	dH	Mittl. S...	Mittl.Ge...	mitUmwegen	Gleitzahl	Dist.Aufg.	Vt	Vm	L/D Ziel	Wind
15:03:11	2436m	4,5m/s	95km/h	00:20:15	-1112m	-0,9m/s	168km/h	56,7km	51				0,7	175°/18







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100

200

300

400

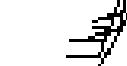
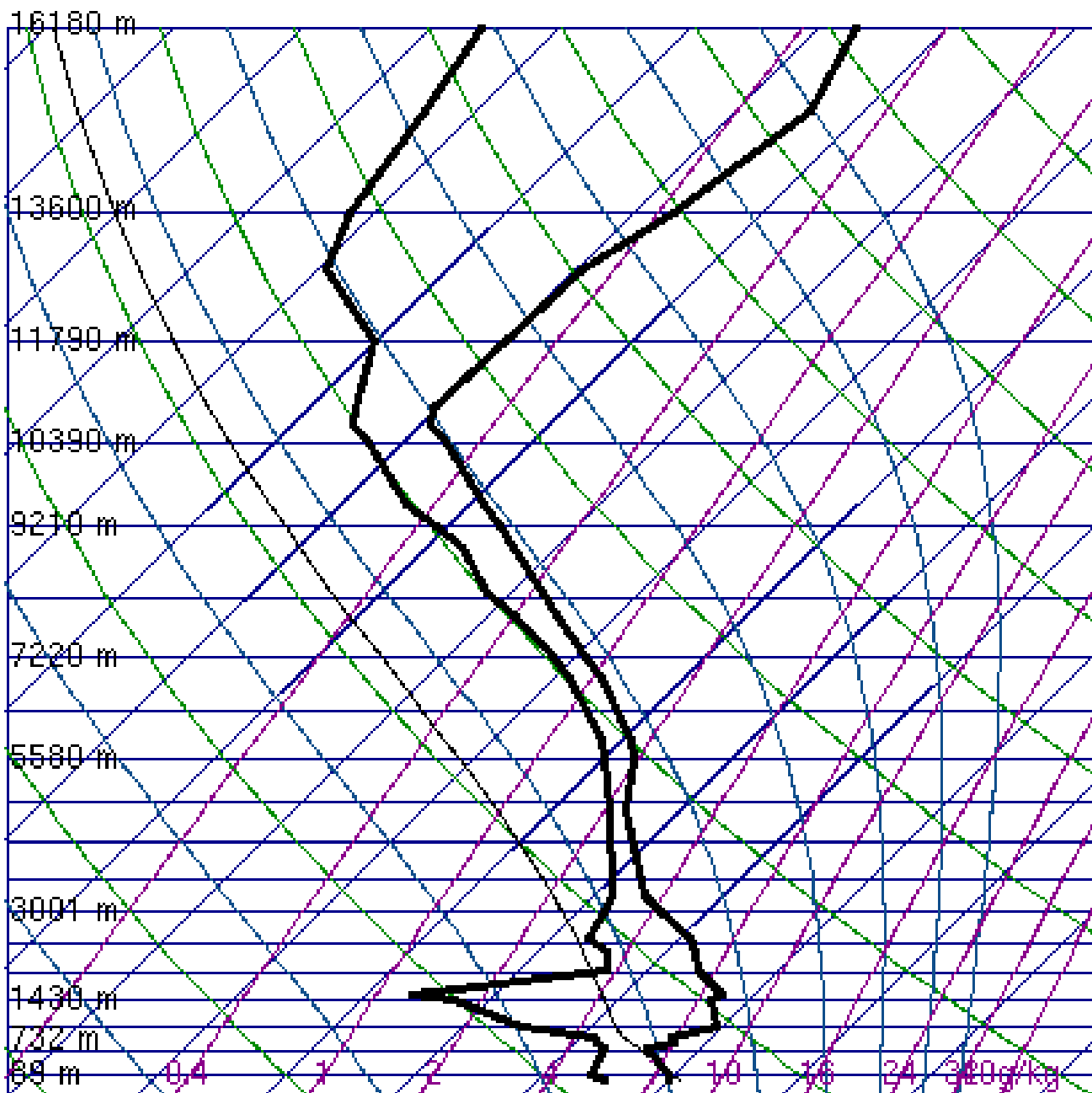
500

600

700

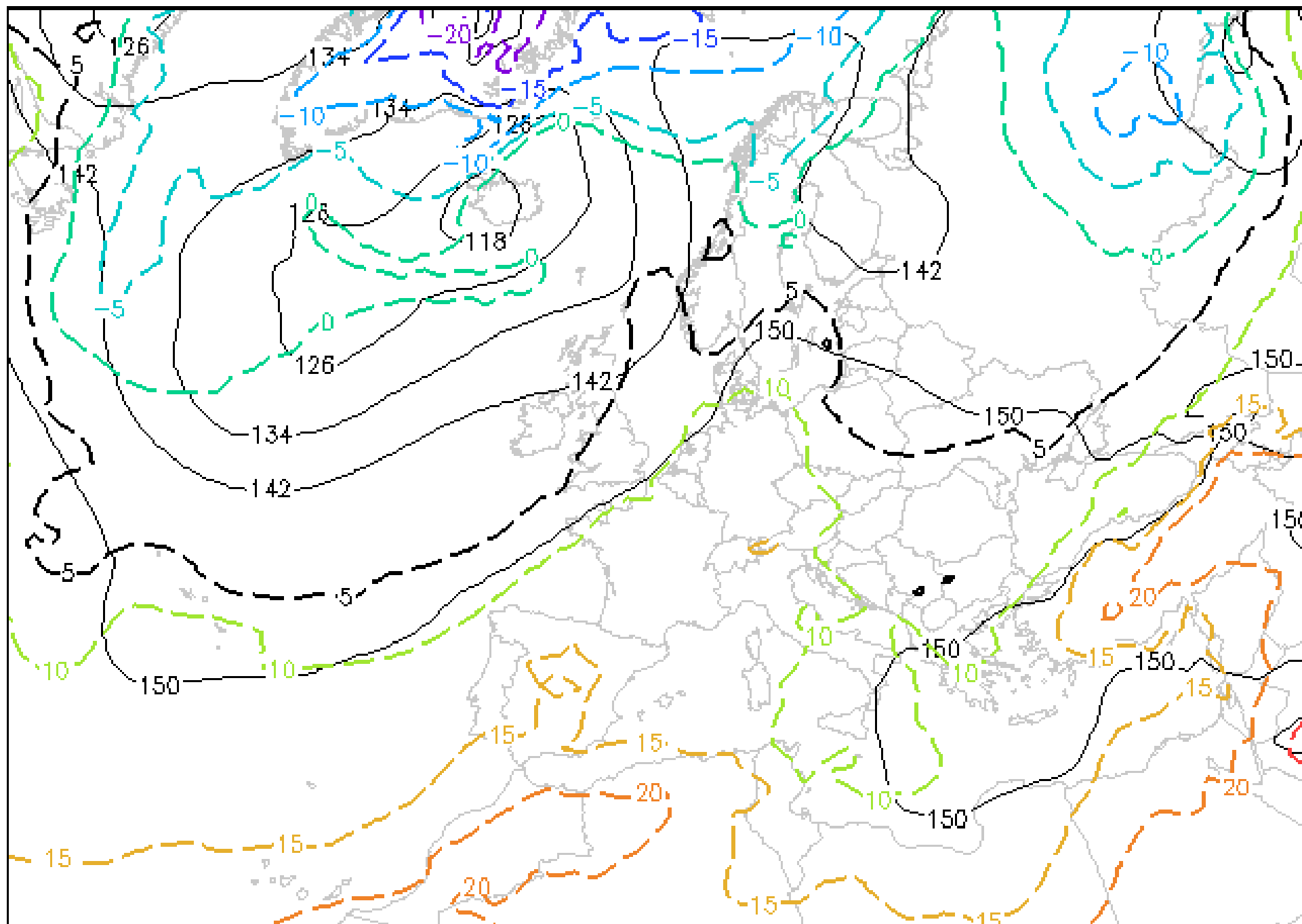
800

900



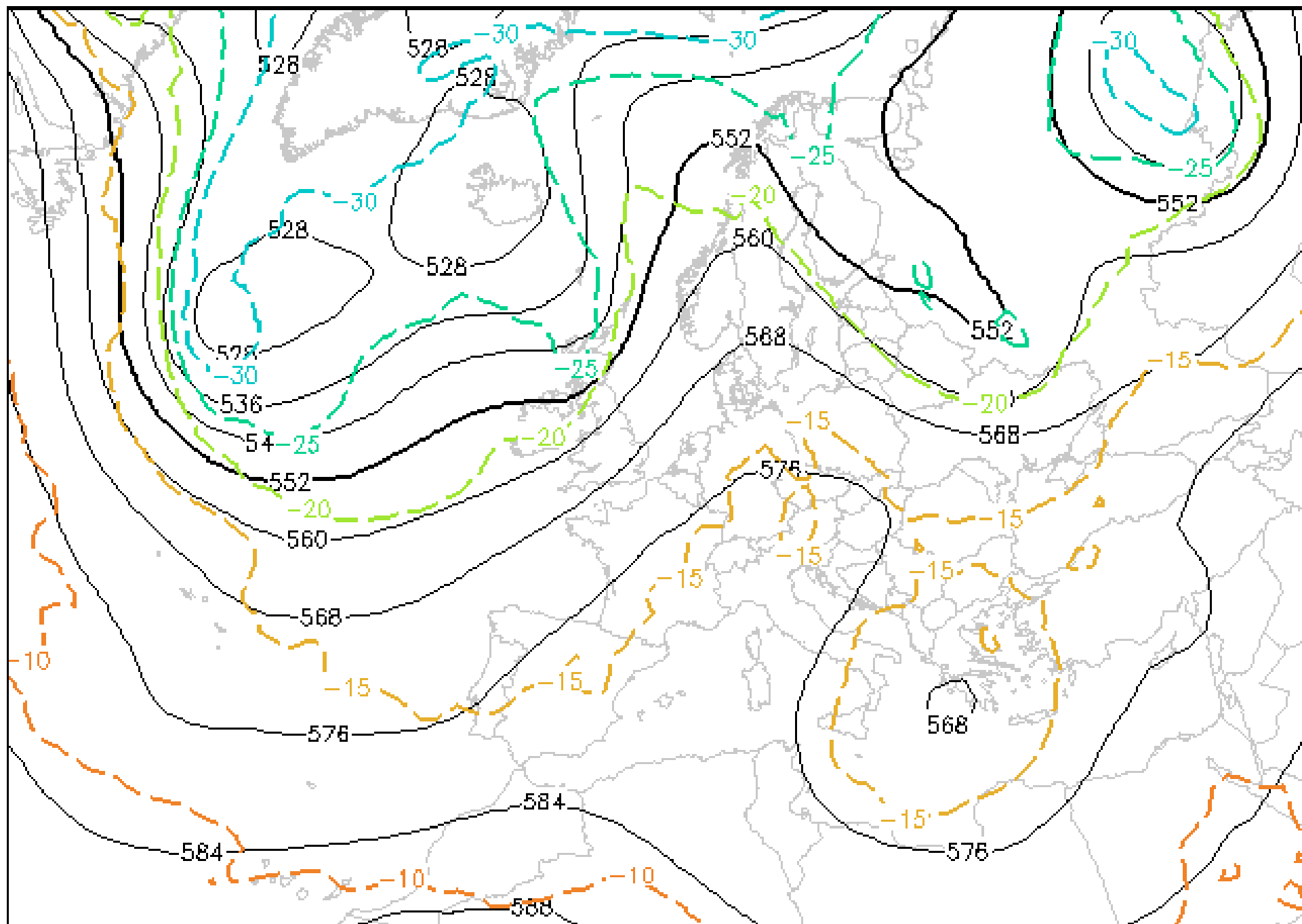
SLAT	63
SLON	9.
SELV	10
SHOW	12
LIFT	13
LFTV	13
SWET	54
KINX	7.
CTOT	4.
VTOT	24
TOTL	29
CAPE	0.
CAPV	0.
CINS	0.
CINV	0.
EQLV	-9
EQTV	-9
LFCT	-9
LFCV	-9
BRCH	0.
BRCV	0.
LCLT	27
LCLP	90
MLTH	28
MLMR	4.
THCK	54
CHUT	17





Höhe 850 hPa GFS (gpdm)

Mo 09.10.06 12 GMT (Mo 00 + 12)



Höhe 500 hPa GFS (gpdm)

Mo 09.10.06 12 GMT (Mo 00 + 12)









Glider were „trapped“ under 1200 m AGL  
Winds decreasing with altitude above?  
Winds decreasing with time → end of waves  
Transition to thermals

14-October

Fake Lenti



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100

200

300

400

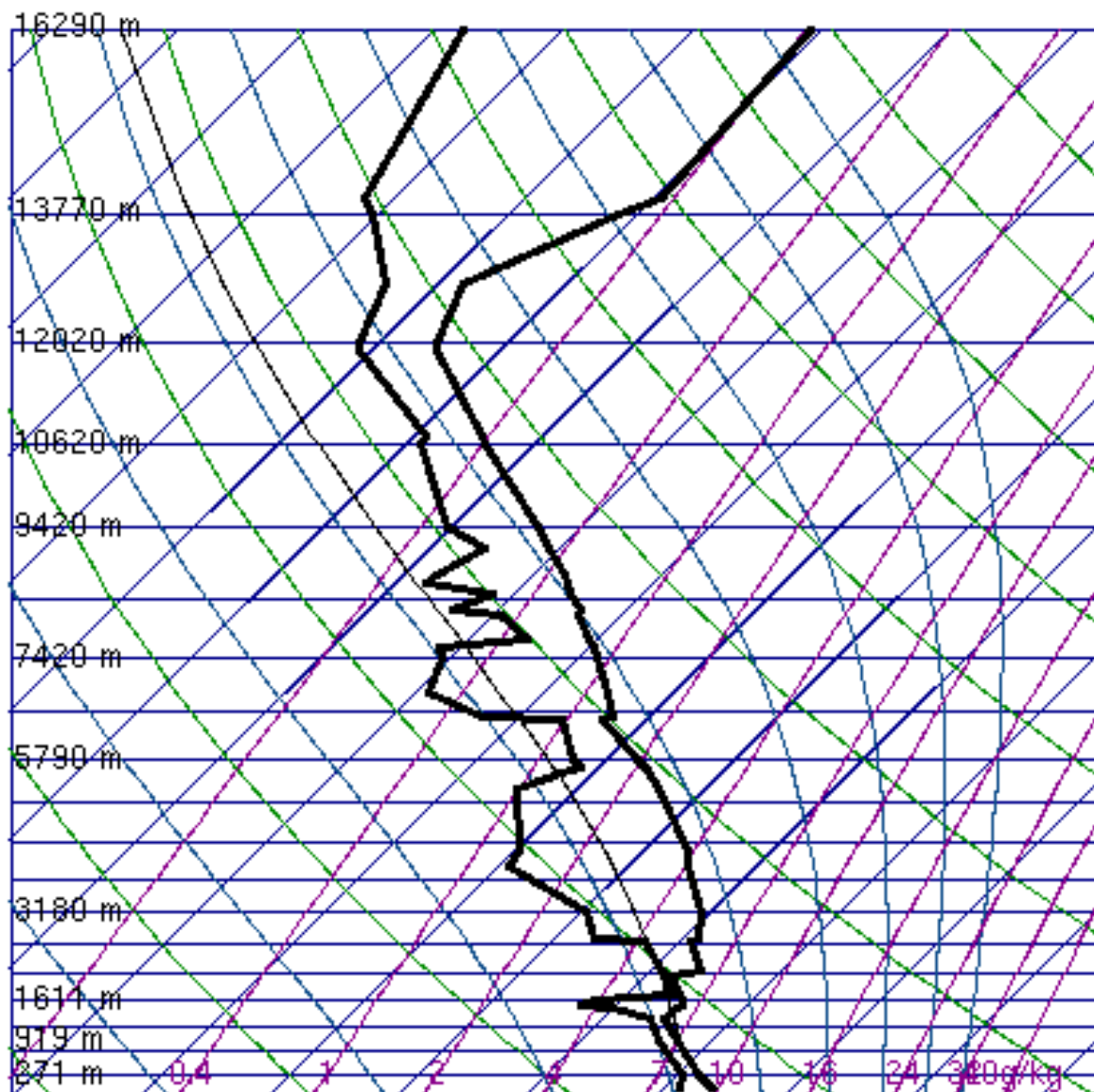
500

600

700

800

900



SLAT	63.70
SLOH	9.60
SELV	10.00
SHOW	9.71
LIFT	6.90
LFTV	6.94
SWET	75.76
KINX	11.10
CTOT	15.30
VTOT	22.30
TOTL	37.60
CAPE	8.41
CAPV	11.57
CINS	-1.78
CINV	-1.06
EQLV	873.5
EQTV	870.2
LFCT	941.4
LFCV	948.6
BRCH	0.24
BRCV	0.33
LCLT	283.0
LCLP	978.4
MLTH	284.8
MLMR	7.88
THCK	5519.
PWAT	22.88

12Z 14 Oct 2006

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