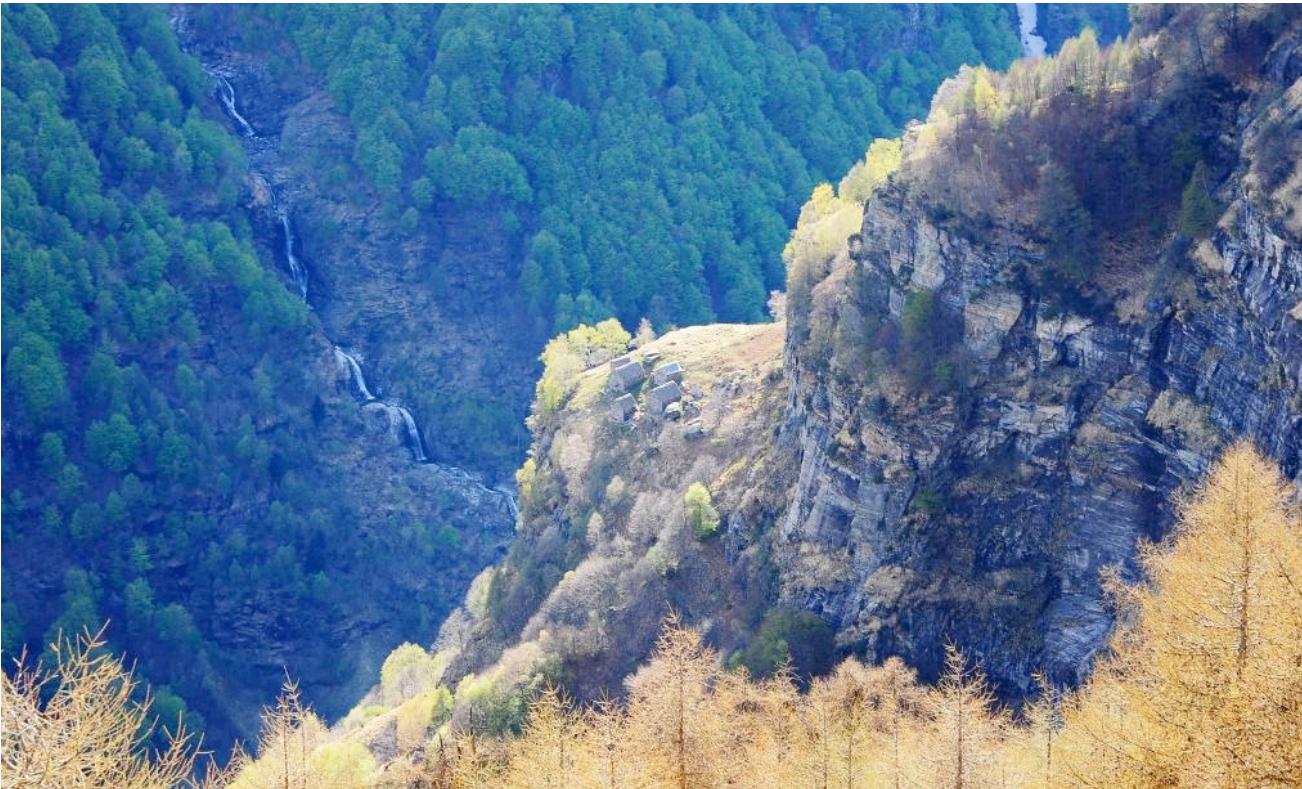




Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Dipartimento federale dell'interno DFI
Ufficio federale di meteorologia e climatologia MeteoSvizzera

Primavera 2011



Retrospettiva meteoclimatica

Matteo Buzzi (Fosco Spinedi, Stefano Zanini, Daniel Gerstgrasser, Mauro Guerini)



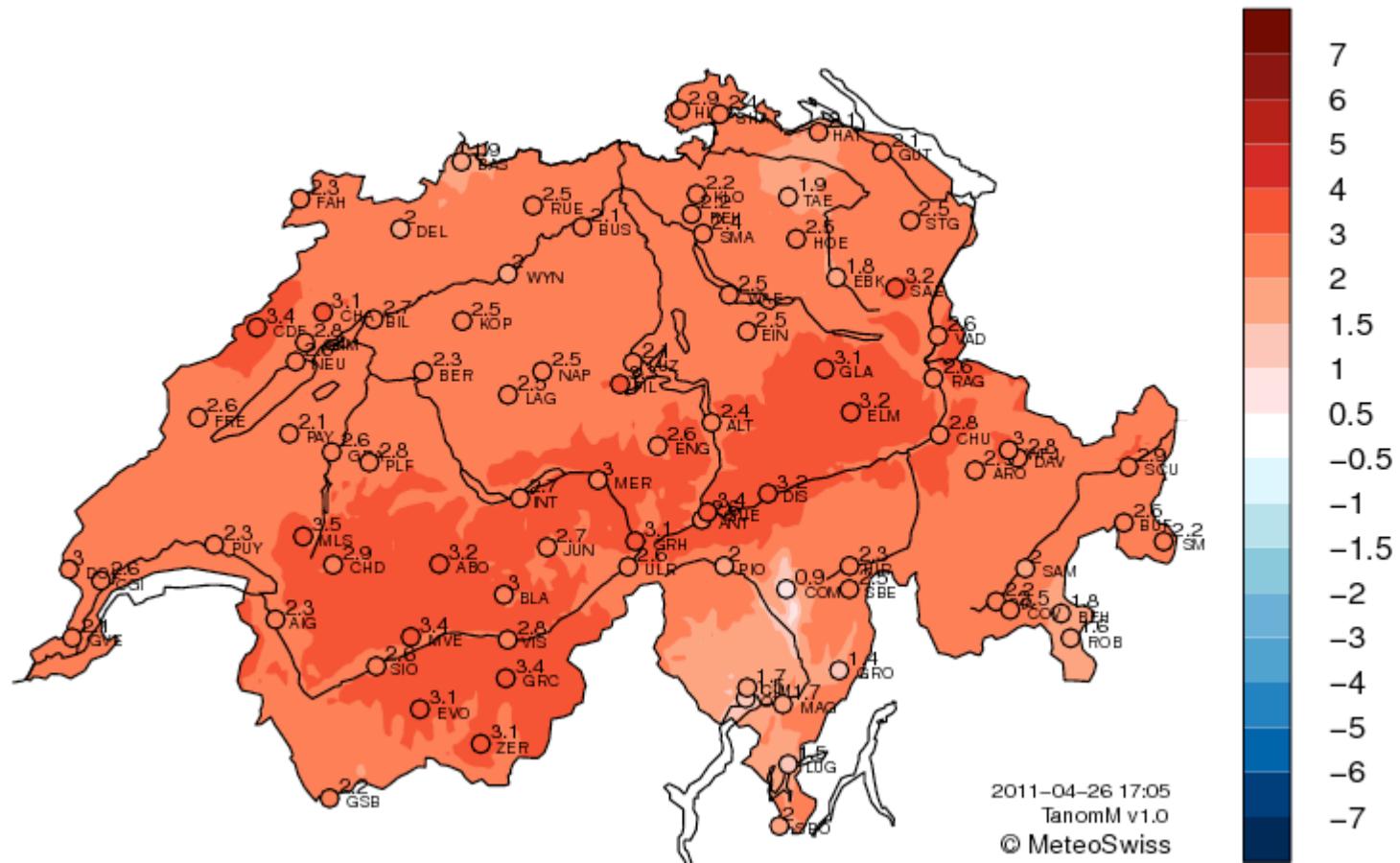
Panoramica

- Andamento rispetto ai valori normali 1961-1990
 - Temperatura
 - Precipitazioni
 - Soleggiamento
- Situazioni meteorologiche preponderanti
 - Distribuzione della primavera 2011
 - Alcuni casi interessanti



Temperatura: marzo 2011

Monthly Temperature Anomaly (degC) Mar 2011 (Ref. 1961–1990)



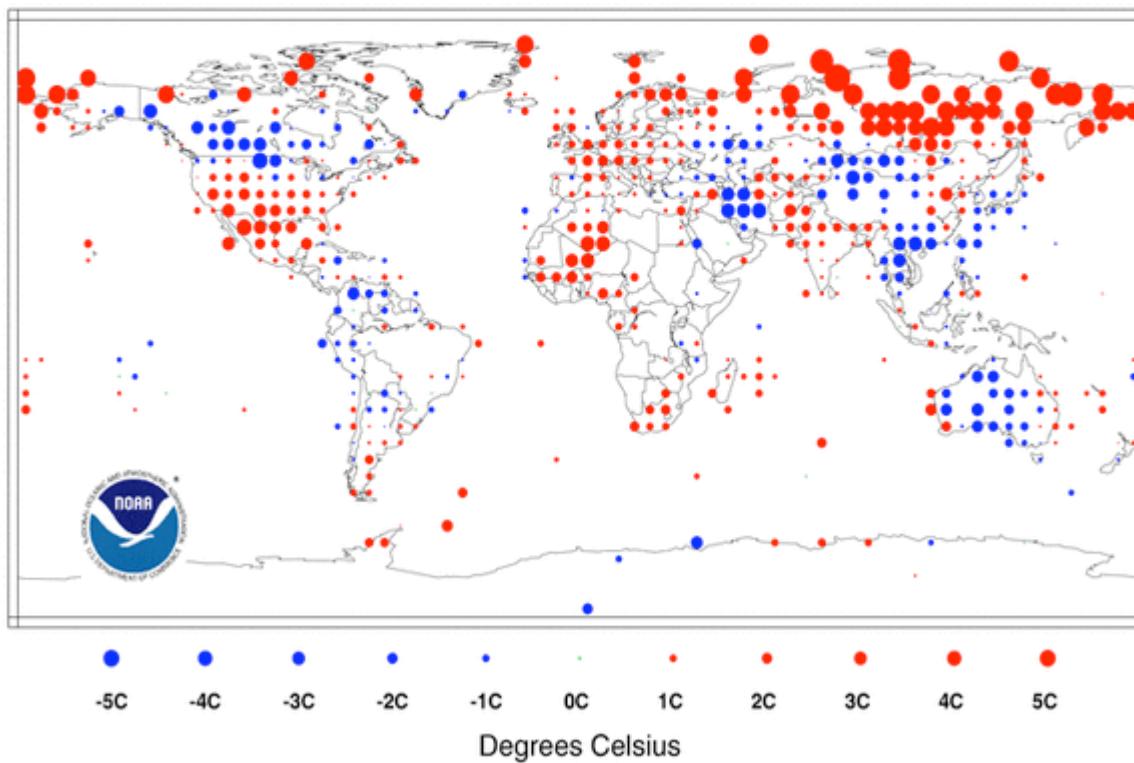


Temperatura: anomalie globali marzo 2011

Temperature Anomalies March 2011

(with respect to a 1961-1990 base period)

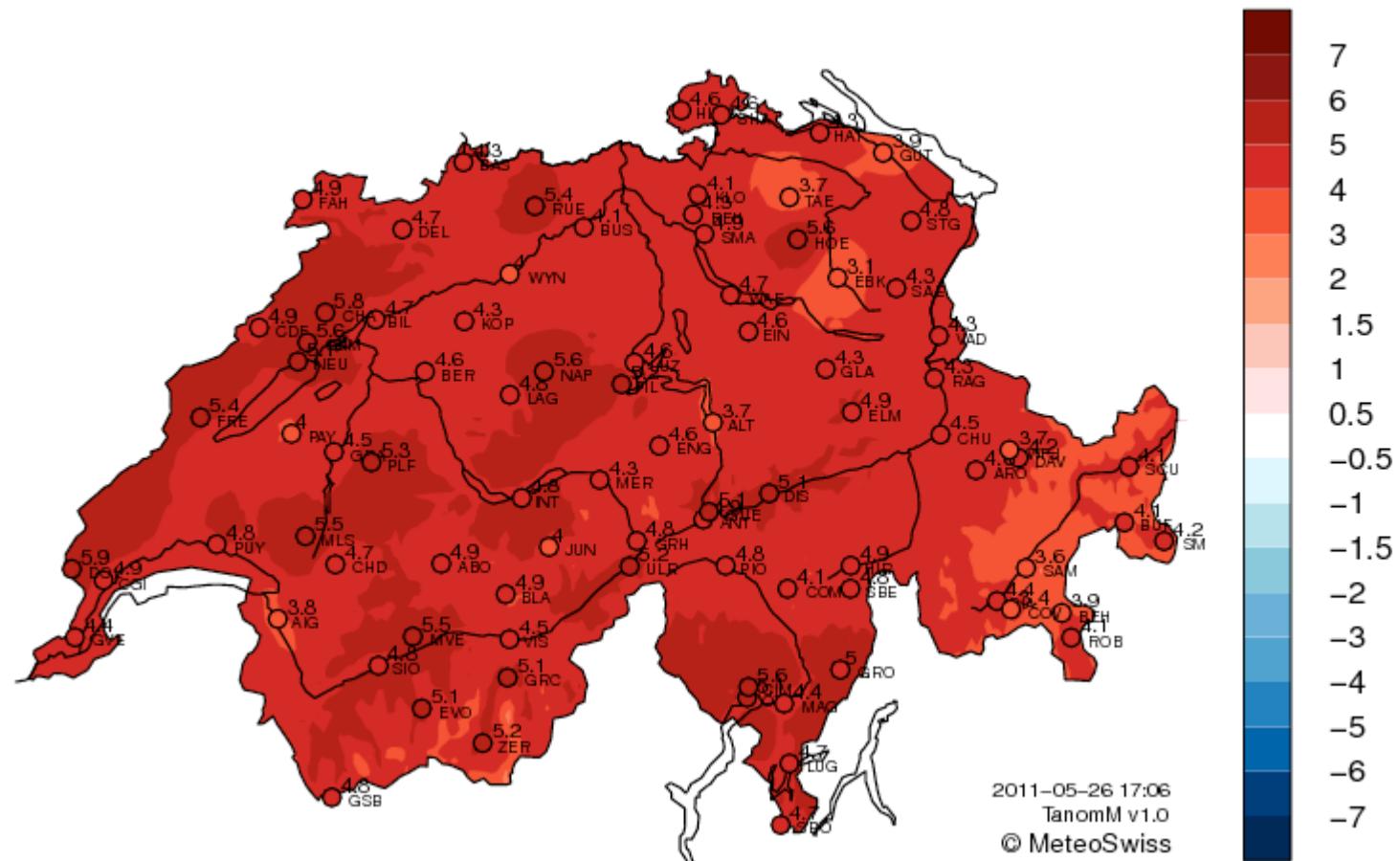
National Climatic Data Center/NESDIS/NOAA





Temperatura: aprile 2011

Monthly Temperature Anomaly (degC) Apr 2011 (Ref. 1961–1990)



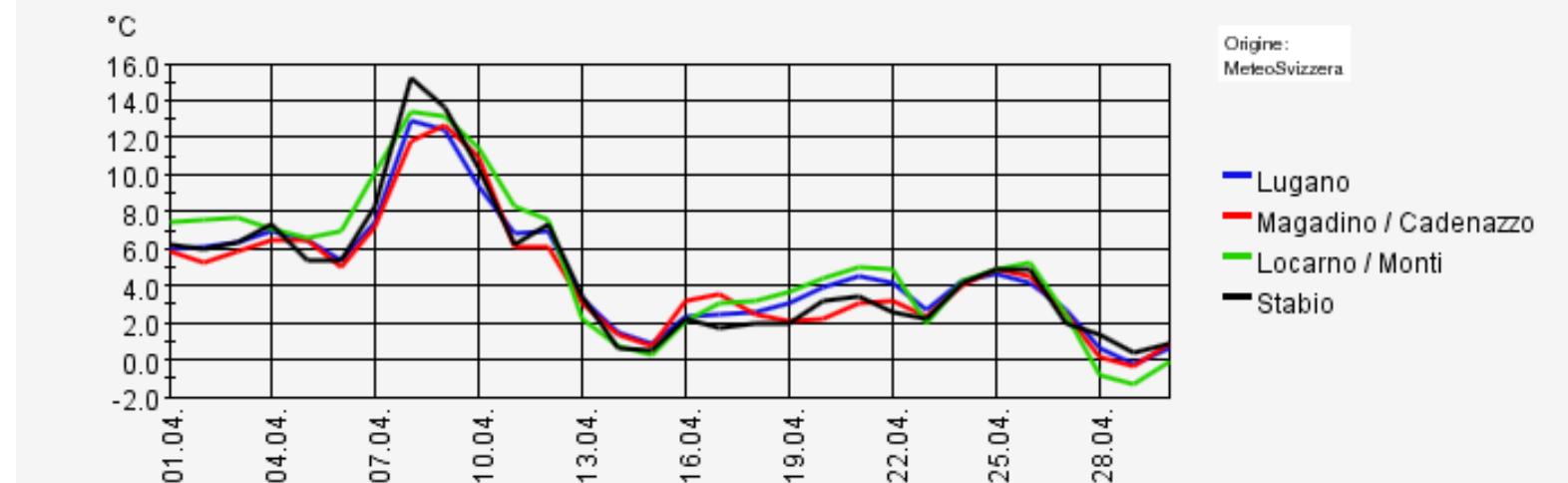


Temperatura: i record di aprile 2011

Nuovi record di temperatura per il mese di aprile

	Vecchio record	8.4.2011	9.4.2011
Lugano	28.9 (20.04.1949)	30.8	31.6
Locarno Monti	26.9 (20.04.1984, 19-20.04.1949)	29.6	31.8
Magadino (dal 1979)	27.8 (24.04.1984)	29.8	30.7
Stabio (dal 1981)	27.5 (24.04.2007)	29.2	29.9

Temperatura dell'aria a 2 m; deviazione dalla norma della media giornaliera [°C] 01.04.2011 - 30.04.2011





Temperatura: i record di aprile 2011

Abweichung vom Temperaturmittel (degC)

April 2011

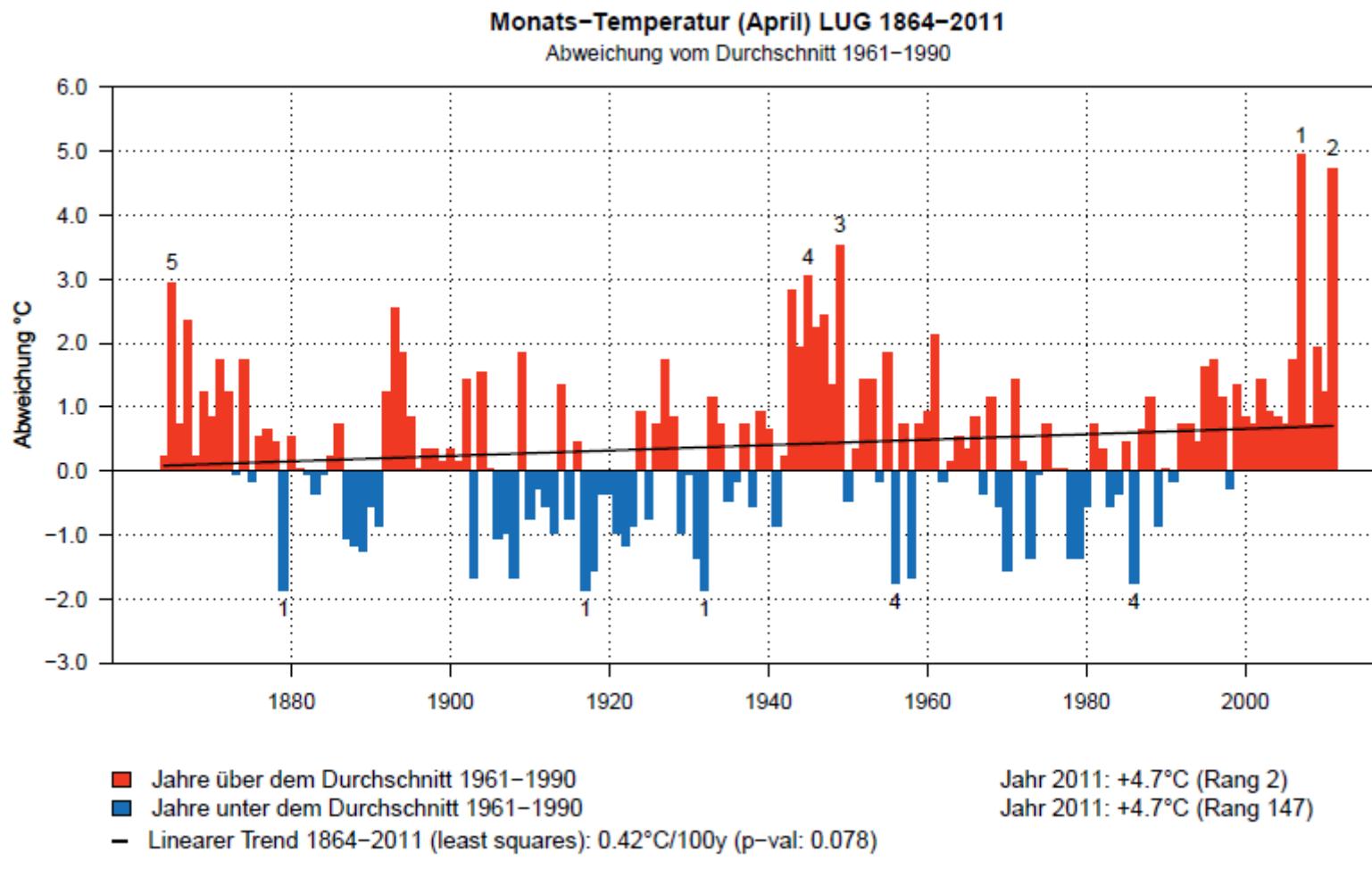
Referenzperiode: 1961 – 1990

	NNW-CH	Mittland West	Mittland Zentral/Ost	Tälern Alpennordhang	Jura	Berglagen	Tälern GR	Walls	Alpensüdseite	
SHA RUE BAS FAH	GVE PUY NEU BER	WYN LUZ BUS GUT KLO TAE SMA STO	CHU VAD ALT ENG ABO	CDF CHA DOL	MLS NAP PIL SAE WFJ JUN	DAV SCU SAM HIR DIS	ULR VIS SIO MVE ZER	ROB SSE CIM PIO COM OTL LUG SBO		1
1	7.3 7.7 7.4 7.8	5.1 5.6 6.4 7.1	6.7 6.9 7.0 6.9 7.3 7.4 7.4	7.2 7.1 5.7 6.9 6.8	7.9 7.8 8.4 8.4 7.2 8.0 6.8 6.3 6.8	6.8 6.7 5.8 5.9 6.8	6.9 6.3 5.8 6.5 6.4	7.2 7.3 9.3 8.0 6.3 7.4 6.0 6.2		2
2	7.7 10.3 8.7 10.3	6.3 7.4 6.7 7.7	6.3 7.3 7.0 6.3 7.0 6.7 8.5 9.2	8.7 8.9 4.9 8.9 9.7	9.7 11.4 11.3 11.2 12.0 11.6 10.7 10.0 9.7	8.4 7.5 5.2 6.7 9.1	7.4 7.0 7.1 9.7 8.4	5.6 6.3 8.9 7.0 6.2 7.5 6.1 6.0		3
3	9.1 10.7 9.1 9.4	9.2 8.6 8.5 8.7	7.9 9.0 8.4 8.1 8.9 8.8 9.9 10.8	8.7 9.4 6.8 9.8 9.8	9.7 10.2 9.7 9.9 10.9 10.2 9.8 9.7 8.4	8.5 8.1 5.7 6.7 9.8	7.9 7.8 7.7 9.5 9.3	6.1 6.4 9.2 7.5 6.4 7.7 6.3 6.3		4
4	3.5 3.1 3.3 2.9	3.2 3.3 3.1 3.4	3.5 2.6 3.5 3.2 3.5 3.4 2.9 2.9	3.2 2.8 2.4 2.4 2.3	3.2 2.2 2.4 1.9 2.2 2.2 2.6 3.3 3.2	3.0 3.3 3.6 4.4 3.6	5.3 3.6 3.4 3.0 4.3	4.8 4.2 7.2 4.8 5.7 7.1 7.0 7.3		5
5	4.1 4.8 4.2 4.3	2.3 2.9 3.1 4.0	3.1 3.9 3.5 3.0 3.8 4.2 4.4 4.4	4.4 4.1 3.2 4.2 3.7	4.3 5.4 6.2 5.1 5.1 4.8 3.1 2.2 4.5	3.9 3.8 4.5 4.8 4.0	5.2 3.9 3.3 4.3 4.4	6.8 5.5 6.2 6.8 6.7 6.6 6.4 5.4		6
6	7.4 8.5 7.1 7.9	5.7 6.9 7.5 7.1	6.9 7.3 7.1 5.9 7.4 6.9 7.9 7.4	6.3 6.4 5.3 7.7 8.4	6.6 10.8 11.0 10.7 9.4 10.2 8.1 7.3 9.8	6.9 6.5 6.9 6.8 7.8	7.6 6.8 6.1 8.4 8.0	7.5 8.8 10.6 8.4 6.7 8.9 5.4 5.3		7
7	9.8 11.3 9.8 10.5	7.9 9.0 9.5 9.3	8.8 9.2 9.0 9.2 8.9 9.2 10.3 11.4	10.7 10.9 7.5 10.6 11.1 10.3 12.7 12.6	12.8 12.2 12.9 11.5 11.2 10.3 10.8 9.7 9.1 10.5 11.5	11.0 9.1 8.7 11.7 11.0	10.5 12.2 14.2 11.1 10.8 10.1 7.4 8.3			8
8	8.0 8.3 6.9 7.8	8.6 10.0 9.0 8.8	7.4 8.7 7.0 7.6 7.2 6.8 9.0 8.2	9.4 7.8 7.6 8.9 9.4	8.1 10.1 11.3 10.3 9.4 9.1 7.9 7.5 8.7	9.2 8.5 8.1 10.4 9.7	9.9 8.9 9.2 11.0 10.2 12.6 10.8 13.5 11.6 11.4 13.4 12.9 15.2			9
9	7.4 8.4 5.8 7.9	8.0 9.5 10.4 8.3	7.2 8.0 7.7 8.4 7.4 6.1 8.4 7.8	7.7 6.8 6.1 8.3 9.9	10.8 11.7 12.0 12.5 10.0 11.0 9.4 8.4 9.2	8.0 7.3 6.7 8.6 9.3	10.4 8.1 8.5 10.9 10.0	10.3 11.1 14.0 11.1 10.3 13.2 12.4 13.6		10
10	6.9 8.0 5.4 7.3	7.4 8.8 10.1 7.8	7.0 7.4 6.7 5.4 6.7 4.9 7.5 8.4	8.5 5.4 5.1 7.4 9.0	9.4 10.5 11.3 10.3 9.3 8.8 7.5 8.5 8.2	8.9 6.6 5.9 7.5 8.2	10.5 7.4 7.8 9.9 9.2	10.2 9.3 11.9 9.3 9.8 11.5 9.4 10.4		11
11	7.2 8.2 7.0 8.1	6.8 7.3 8.1 6.7	6.6 6.8 6.9 6.1 6.4 6.3 7.8 7.1	6.8 6.3 4.9 7.2 8.1	7.8 9.5 9.1 9.2 9.0 9.2 7.4 6.7 8.1	7.0 6.1 5.7 7.6 8.1	8.2 7.2 7.3 8.8 8.7	8.1 9.2 9.8 8.1 7.4 8.3 6.8 6.2		12
12	2.4 1.7 2.1 1.9	3.8 3.0 3.2 2.9	2.7 1.9 2.8 2.4 2.6 2.6 2.3 1.6	0.8 1.3 0.7 1.0 1.8	1.9 0.9 1.3 1.2 1.1 1.2 1.2 1.5 0.8	1.7 2.3 3.1 3.3 2.2	2.8 4.3 3.0 3.1 4.6	5.9 4.6 6.6 4.2 4.9 7.5 7.0 7.3		13
13	-2.0 -1.5 -1.5 -1.4	0.4 0.1 -0.1 -0.9	-1.1 -1.1 -1.7 -1.9 -1.4 -1.2 -1.1 -2.2	-2.6 -2.5 -2.0 -1.9 -2.2	-0.8 -2.2 -1.1 -2.3 -2.4 -3.7 -5.1 -5.9 -5.0	-3.5 -3.1 -2.1 -1.2 -2.5	-0.4 0.0 0.5 -0.8 0.1	-0.7 -1.3 0.3 -0.8 0.0	2.2 3.3 3.4	
14	-0.6 -0.2 0.0 0.1	1.4 0.6 1.0 -0.5	-0.4 -0.1 -0.5 -1.3 -0.7 -1.0 -0.3 -1.1	-1.2 -1.8 -0.9 -1.9 -1.8	0.4 -0.8 -0.5 -1.8 -1.1 -2.7 -3.9 -4.2 -2.3	-1.7 -2.4 -1.1 -0.7 -1.6	0.4 -0.8 0.1 -1.2 -0.9	-0.2 -0.7 0.3 -0.1 0.1	0.7 1.5 0.6	
15	-0.2 -0.3 -0.9 -0.4	1.1 1.0 1.3 -0.3	-0.2 0.0 -0.5 -0.6 -0.6 -1.9 -0.2 -1.3	-0.7 -1.7 -0.8 -1.0 -0.1	0.4 0.1 0.1 -0.5 -0.9 -2.1 -2.8 -2.8 -0.4	-0.8 -1.4 -1.0 0.6 0.2	0.8 0.8 1.0 0.7 1.0	-0.9 0.3 -0.7 0.1 -0.8 0.3	0.9 0.5	
16	0.8 0.7 -0.3 0.5	0.3 1.0 1.9 0.2	-0.1 0.4 -0.3 0.2 -0.4 -1.6	0.3 -0.5 0.1 -1.2 -0.3 0.5 1.2	0.8 1.3 2.0 1.7 1.2 1.1 0.2 -0.3 2.0	0.8 0.4 0.8 3.0 1.5 2.0 0.9 1.5 1.7 1.9	0.1 2.2 0.5 2.1 1.0 2.1 2.3 2.2			16
17	1.9 2.5 1.1 2.5	1.3 2.3 2.8 1.5	0.8 1.8 0.9 0.9 -0.2	2.0 1.6 1.6 0.2 0.6 1.9 2.7	2.1 3.2 3.7 3.3 3.0 2.4 1.6 1.5 3.6	2.2 1.8 2.1 3.9 3.1 3.4 2.0 2.4 3.2 3.0	0.1 2.3 1.3 2.7 1.7 3.1 2.5 1.7			17
18	3.1 5.1 2.9 4.5	3.1 3.7 3.2 3.2	2.3 3.7 2.4 1.7 2.4 1.8 4.0 3.7	3.8 3.6 2.3 4.1 4.4	3.2 5.7 5.8 4.6 5.5 4.0 3.7 3.4 4.2	4.0 4.1 2.8 4.6 5.0	4.3 3.2 3.8 4.8 4.2	1.2 2.8 2.8 3.4 2.0 3.2 2.6 1.9		18
19	4.8 6.4 4.6 6.2	3.9 4.7 4.8 4.4	3.6 5.1 3.6 3.9 2.9 5.6 5.4	5.2 5.3 3.4 4.8 5.6 4.8 7.2 6.4 5.6 7.1 5.7 4.9 4.7 4.4	5.0 5.2 3.0 5.1 5.8 4.4 4.5 4.9 6.1 5.0	1.5 2.8 4.0 3.2 1.9 3.6 3.0 2.0				19
20	5.9 7.8 5.4 6.8	5.7 6.0 5.7 5.7	4.6 6.7 4.9 4.9 5.0 4.5 6.8 7.1	7.1 7.1 6.2 6.3 6.2	5.2 8.3 6.5 6.9 7.7 7.2 6.5 6.4	3.3 6.5 5.0 3.3 5.9 6.3 4.4 5.8 6.1 7.0 5.0	2.5 3.3 4.9 3.6 2.6 4.4 3.9 3.2 3.2 3.2		20	
21	6.2 8.2 5.9 7.0	5.5 5.7 6.4 6.2	5.0 6.3 5.2 5.7 5.2 5.1 7.2 8.5	7.1 8.0 8.3 8.9 8.5	8.1 7.7 7.2 8.9 7.8 7.2 8.5 5.3	3.6 5.5 5.5 3.9 5.8 6.5 4.2 5.8 5.7 6.7 4.9	3.0 4.2 5.5 4.5 3.8 5.0 4.5 3.4		21	
22	6.4 8.2 5.9 6.9	5.5 6.2 6.0 5.9	4.7 6.9 4.9 6.8 5.4 5.3 7.9 9.4	7.4 9.5 9.4 7.7 7.2	5.8 8.3 7.8 6.9 8.3 7.2 6.7 5.3	2.2 5.4 5.3 3.6 5.9 8.4 4.1 5.8 5.8 6.5 4.8	3.4 4.6 5.4 4.5 3.9 4.9 4.1 2.6		22	
23	6.5 7.8 6.2 7.2	5.7 6.1 6.4 6.1	4.8 7.2 5.0 6.8 4.8 5.8 7.4 9.2	6.5 8.9 9.2 7.8 7.1	5.1 7.5 5.9 6.7 8.4 7.1 6.1 4.1 3.7	5.0 4.5 3.5 4.7 5.6	5.3 6.1 6.8 6.4 5.1	1.9 3.2 2.3 2.8 1.7 1.9 2.7 2.2		23
24	6.1 5.8 5.8 5.4	5.5 5.4 5.6 6.3	5.6 6.0 5.5 6.3 5.5 6.2 6.1 6.6	4.9 5.7 4.4 5.5 5.4	5.5 5.5 4.9 5.0 5.4 5.2 5.1 4.5 5.3	4.7 4.7 4.8 6.3 5.9	6.0 4.7 6.1 5.8 5.5	3.4 5.7 5.8 4.1 2.9 4.3 4.3 4.1		24
25	6.4 6.8 5.2 6.5	6.9 7.3 7.8 7.0	5.8 6.6 5.9 5.3 6.0 5.3 6.3 5.8	5.5 5.2 5.2 6.1 6.3	6.7 7.8 7.2 7.2 7.1 5.9 4.4 4.4 4.9	5.0 5.8 5.4 6.7 6.8	6.8 5.3 6.4 6.8 5.9	4.5 6.6 5.5 5.9 4.5 4.9 4.8 4.9		25
26	3.8 4.1 3.0 3.6	5.6 5.3 5.8 3.7	3.8 3.6 3.5 3.1 3.2 1.8 3.5 2.2	2.5 2.2 2.7 2.9 4.1	4.2 4.0 5.4 3.9 3.8 2.5 1.5 1.4 2.4	3.3 2.8 2.8 4.4 4.3	4.9 3.8 5.1 5.1 5.1	3.8 5.4 5.2 5.4 4.2 5.2 4.1 4.0		26
27	1.0 2.1 1.8 1.9	1.5 3.1 2.5 1.6	1.3 1.1 1.1 0.1 0.1 0.1 0.1 0.7	0.7 0.1 0.9 1.0 1.0	1.4 1.7 2.6 1.7 1.1 0.7 0.1 -0.1	1.1 1.5 0.8 2.3 2.1	2.9 2.0 3.2 2.2 3.0	1.8 3.4 2.4 3.6 1.8 2.4 2.7 1.9		27
28	2.4 2.1 2.1 2.0	0.4 0.5 2.4 2.1	1.6 1.3 1.5 1.5 1.9 1.1 0.9 1.2	1.5 1.0 0.8 1.5 1.4	1.9 2.3 0.7 1.3 2.1 2.4 1.6 1.7 1.3	2.3 2.3 1.0 2.1 1.9	3.3 1.1 1.2 1.4 1.8	0.7 1.3 0.3 0.3 -0.7 -0.9 0.6 1.3		28
29	2.8 2.0 2.0 1.0	1.4 1.2 2.0 2.1	2.1 2.4 2.1 1.1 2.1 1.9 2.0 1.9	1.7 1.8 1.3 2.1 1.4	1.8 2.0 1.4 1.2 1.7 2.8 2.2 1.2 1.2	1.3 1.8 1.1 1.9 2.5	3.4 1.9 2.0 1.9 2.7	0.0 0.8 -0.2 0.2 -1.0 -1.3 -0.2 0.4		29
30	1.5 3.0 2.2 2.1	1.8 2.0 2.1 2.0	1.3 2.2 1.9 1.6 1.7 1.8 2.6 1.8	2.9 2.0 1.5 2.4 1.8	2.5 3.0 3.6 2.9 2.8 3.3 2.2 1.4 1.3	1.6 2.3 2.3 2.7 3.3	3.4 1.9 2.7 2.9 3.3	0.8 1.1 0.8 0.8 -0.3 -0.1 0.6 0.9		30
Mitt.	4.6 5.4 4.3 5.0	4.4 4.8 5.1 4.6	4.0 4.6 4.1 3.9 4.1 3.7 4.9 4.8	4.5 4.4 3.7 4.7 4.9	4.9 5.9 5.9 5.5 5.8 5.2 4.3 3.7 4.0	4.3 4.1 3.6 4.9 5.1	5.2 4.5 4.8 5.5 5.2	4.1 4.8 5.6 4.8 4.1 5.1 4.7 4.7		Mitt.





Temperatura: aprile 2011 e gli altri



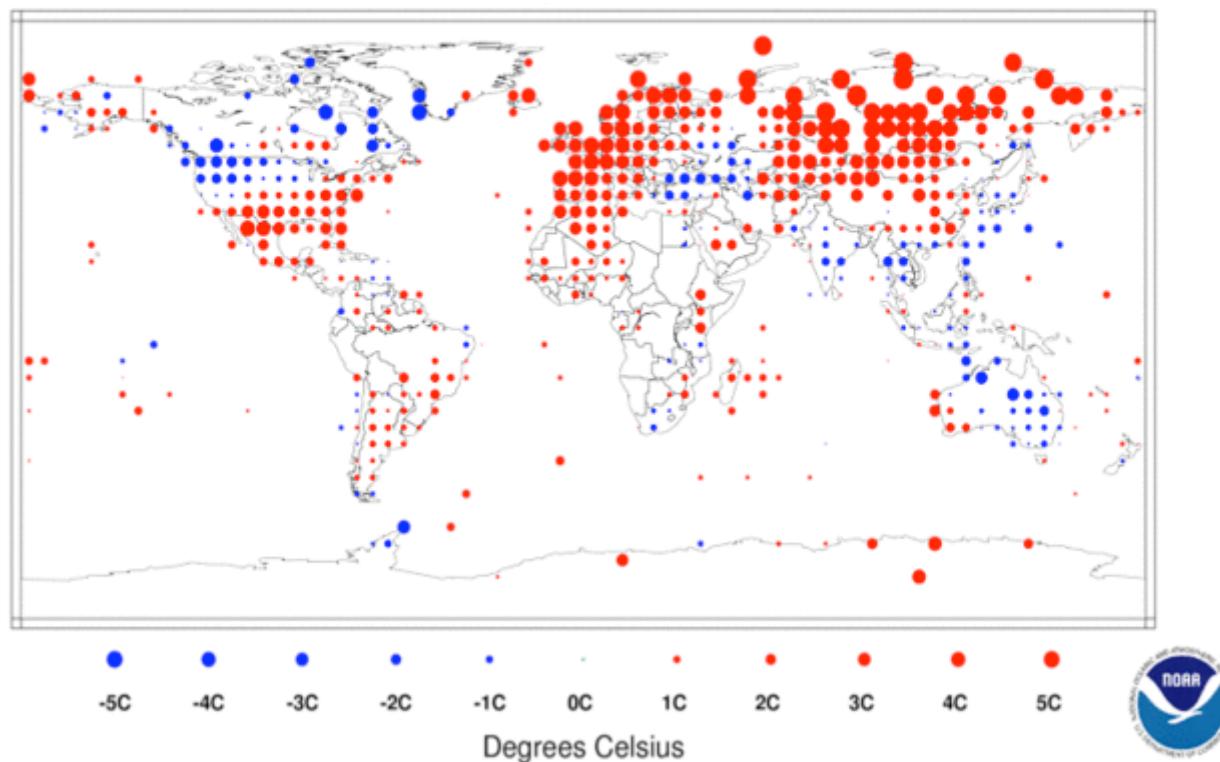


Temperatura: anomali globali aprile 2011

Temperature Anomalies April 2011

(with respect to a 1961-1990 base period)

National Climatic Data Center/NESDIS/NOAA





Temperatura: anomalia globale aprile 2011

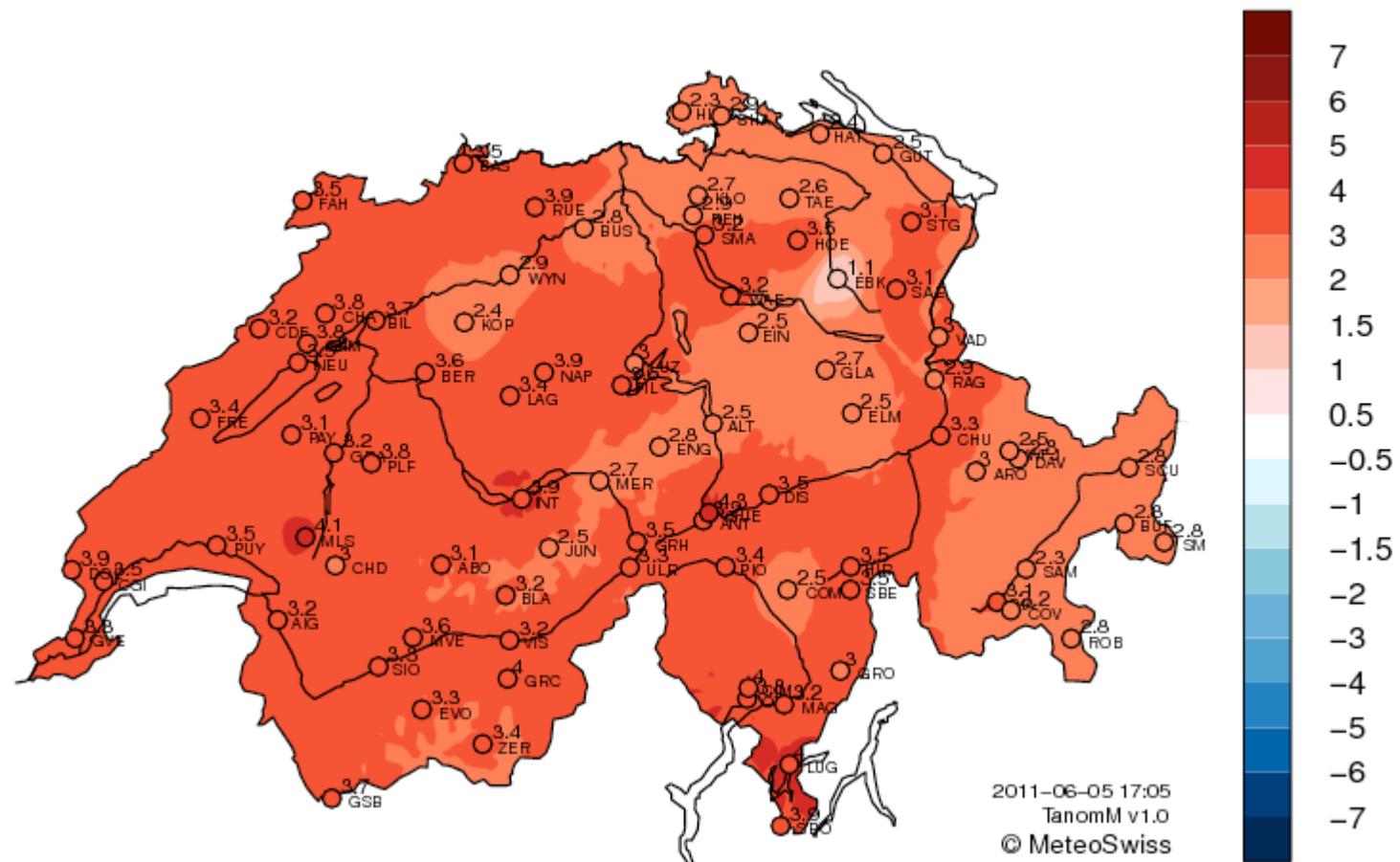
April	Anomaly		Rank (out of 132 years)	Warmest on Record		
	°C	°F		Year	°C	°F
Global						
Land	+1.12 ± 0.11	+2.02 ± 0.20	6 th warmest	2007	+1.44	+2.59
Ocean	+0.39 ± 0.04	+0.70 ± 0.07	11 th warmest	2010	+0.57	+1.03
Land and Ocean	+0.59 ± 0.07	+1.06 ± 0.13	7 th warmest	2010	+0.78	+1.40
Northern Hemisphere						
Land	+1.38 ± 0.15	+2.48 ± 0.27	4 th warmest*	2000	+1.62	+2.92
Ocean	+0.34 ± 0.04	+0.61 ± 0.07	12 th warmest*	2010	+0.59	+1.06
Land and Ocean	+0.73 ± 0.11	+1.31 ± 0.20	6 th warmest	2010	+0.94	+1.69
Southern Hemisphere						
Land	+0.43 ± 0.14	+0.77 ± 0.25	25 th warmest	2005	+1.06	+1.91
Ocean	+0.44 ± 0.04	+0.79 ± 0.07	10 th warmest*	1998	+0.61	+1.10
Land and Ocean	+0.44 ± 0.06	+0.79 ± 0.11	13 th warmest	1998	+0.66	+1.19

*Signifies a tie



Temperatura: maggio 2011

Monthly Temperature Anomaly (degC) May 2011 (Ref. 1961–1990)

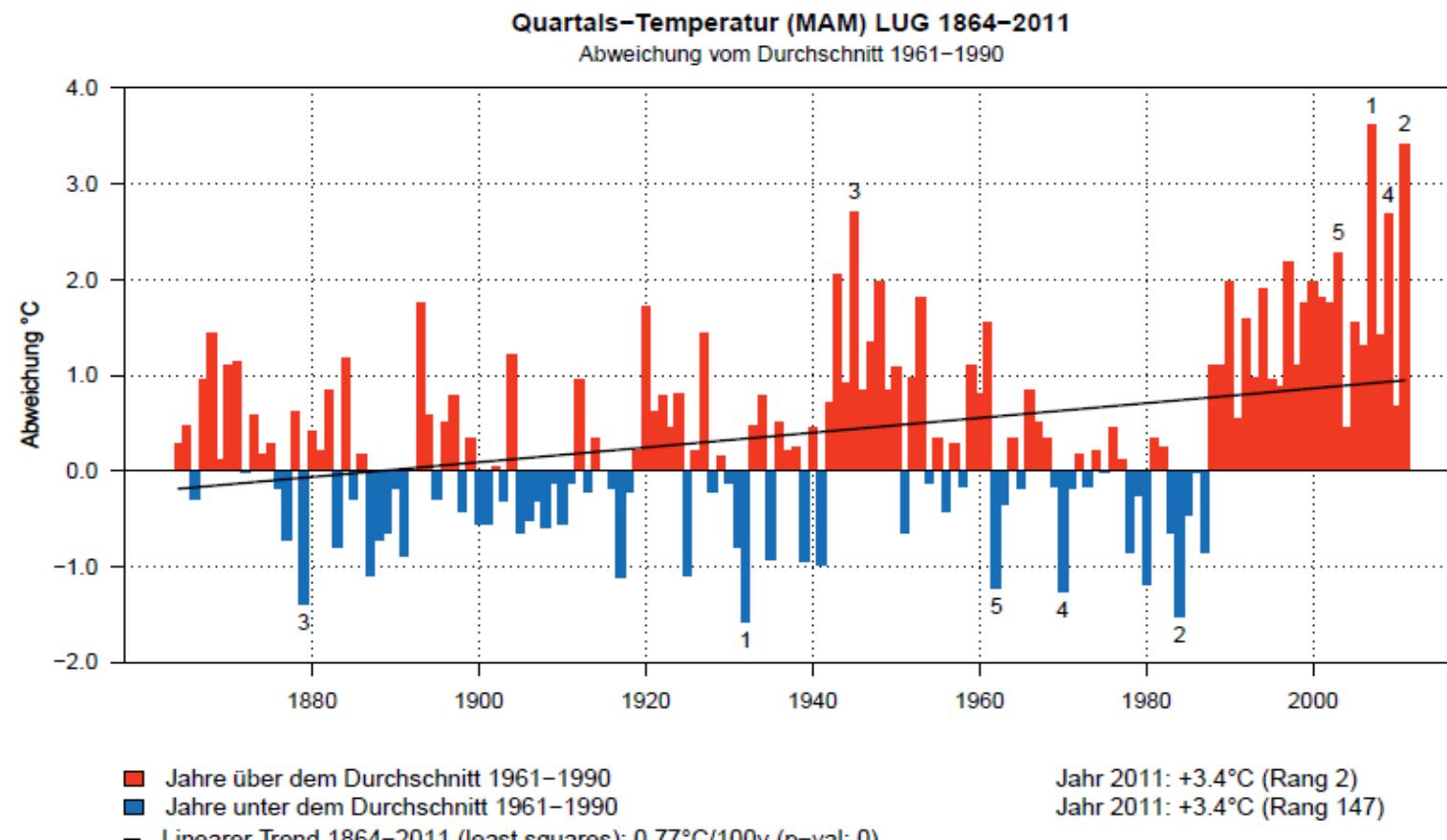




Temperatura: anomalie globali maggio 2011

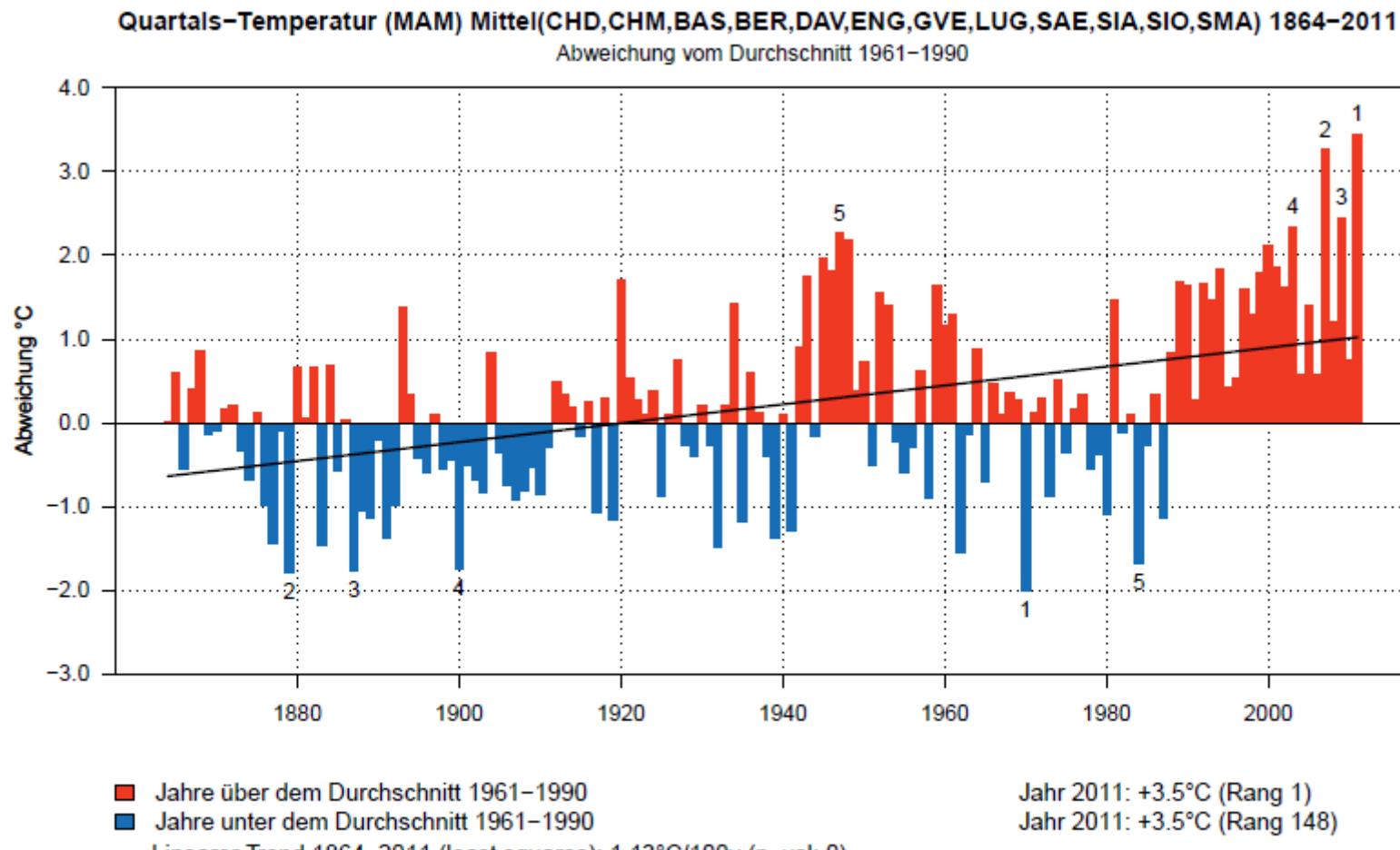


La primavera TI 2011 rispetto alle altre





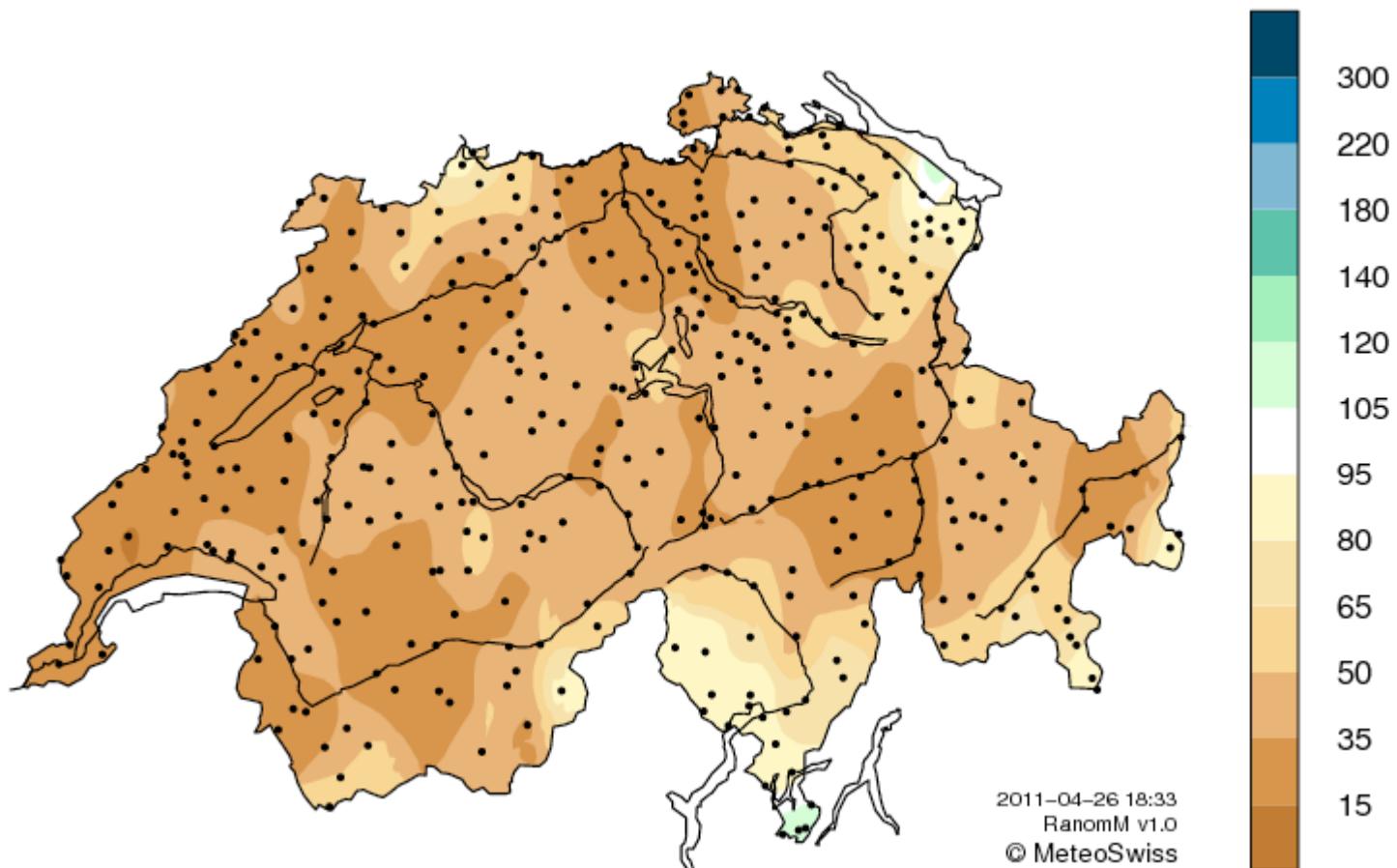
La primavera CH 2011 rispetto alle altre





Precipitazioni: marzo 2011

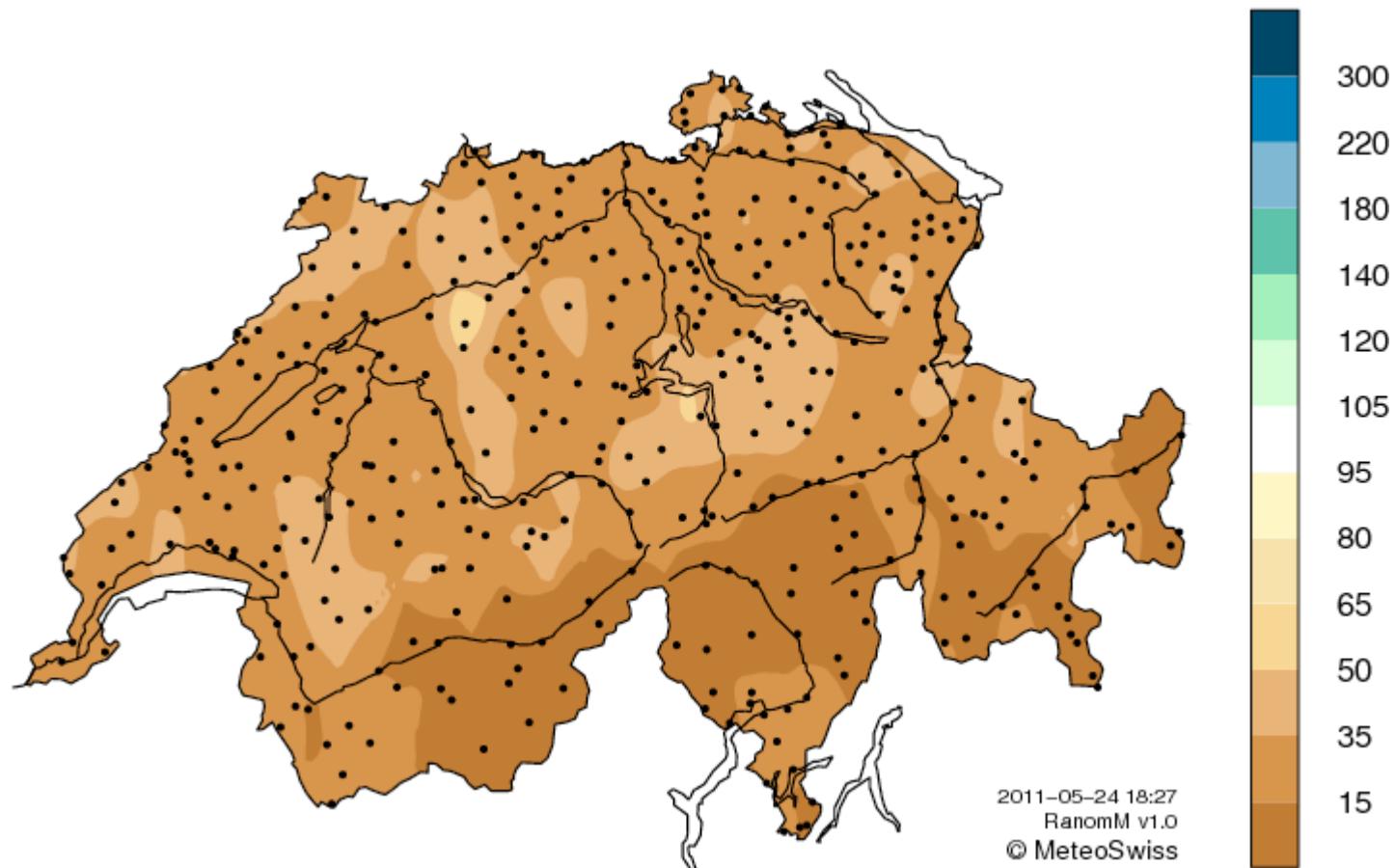
Monthly Precipitation Anomaly (%) Mar 2011 (Ref. 1961–1990)





Precipitazioni: aprile 2011

Monthly Precipitation Anomaly (%) Apr 2011 (Ref. 1961–1990)





Precipitazioni: aprile 2011

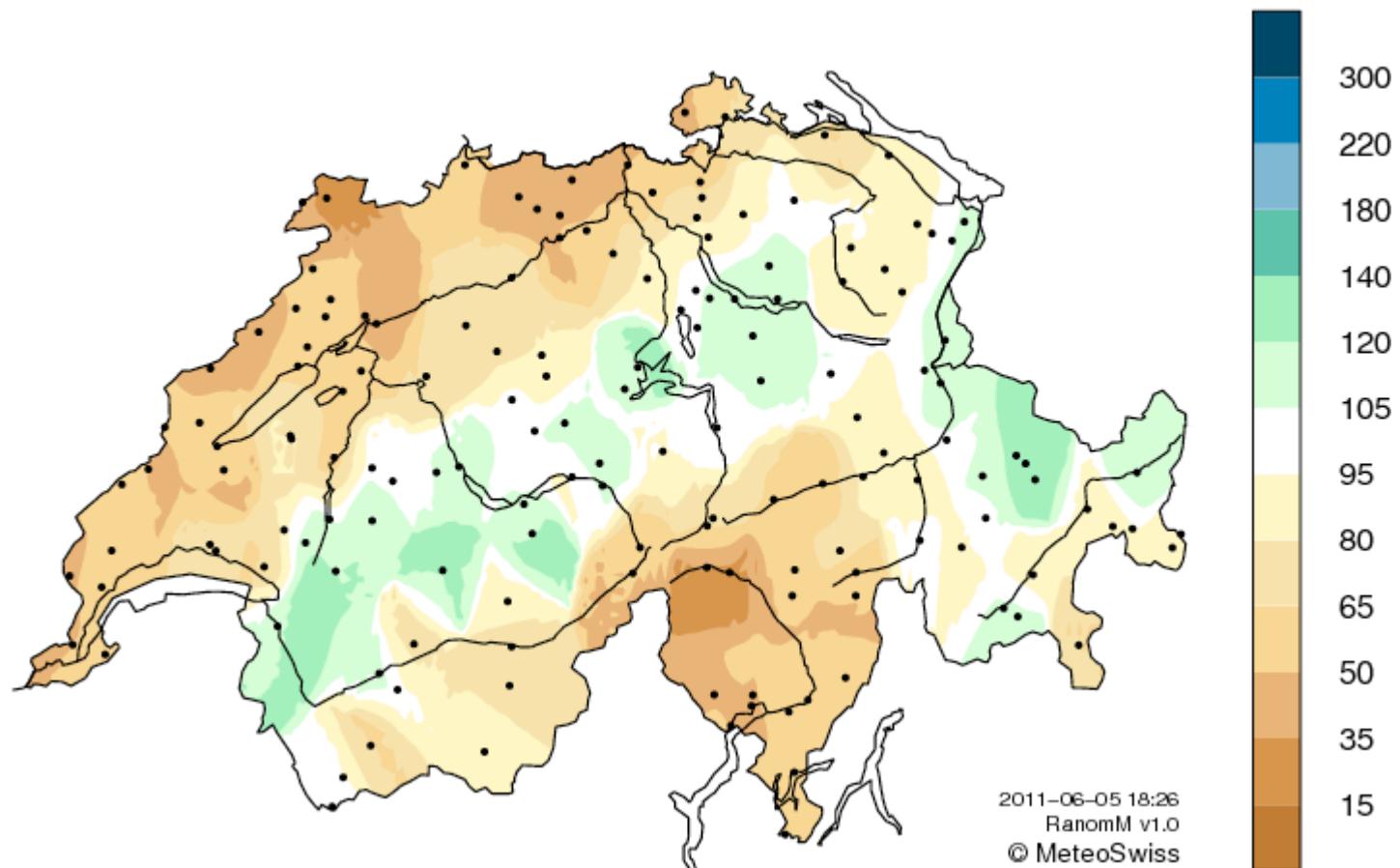
Aprile 2011

		Airolo	Piotta	Biasca	Olivone	Comprovasco	Bellinzona	San Bernardino	Robiei	Bosco Gurin	Locarno-Monti	Lugano	Coldrerio	Stabio	Poschiavo	Same dan
Somma delle precipitazioni del mese	mm	2	8	10	5	5	40	17	35	25	34	24	12	41	7	6
Percento della norma	%	1	6	7	4	4	27	9	15	12	21	16	8	27	9	13



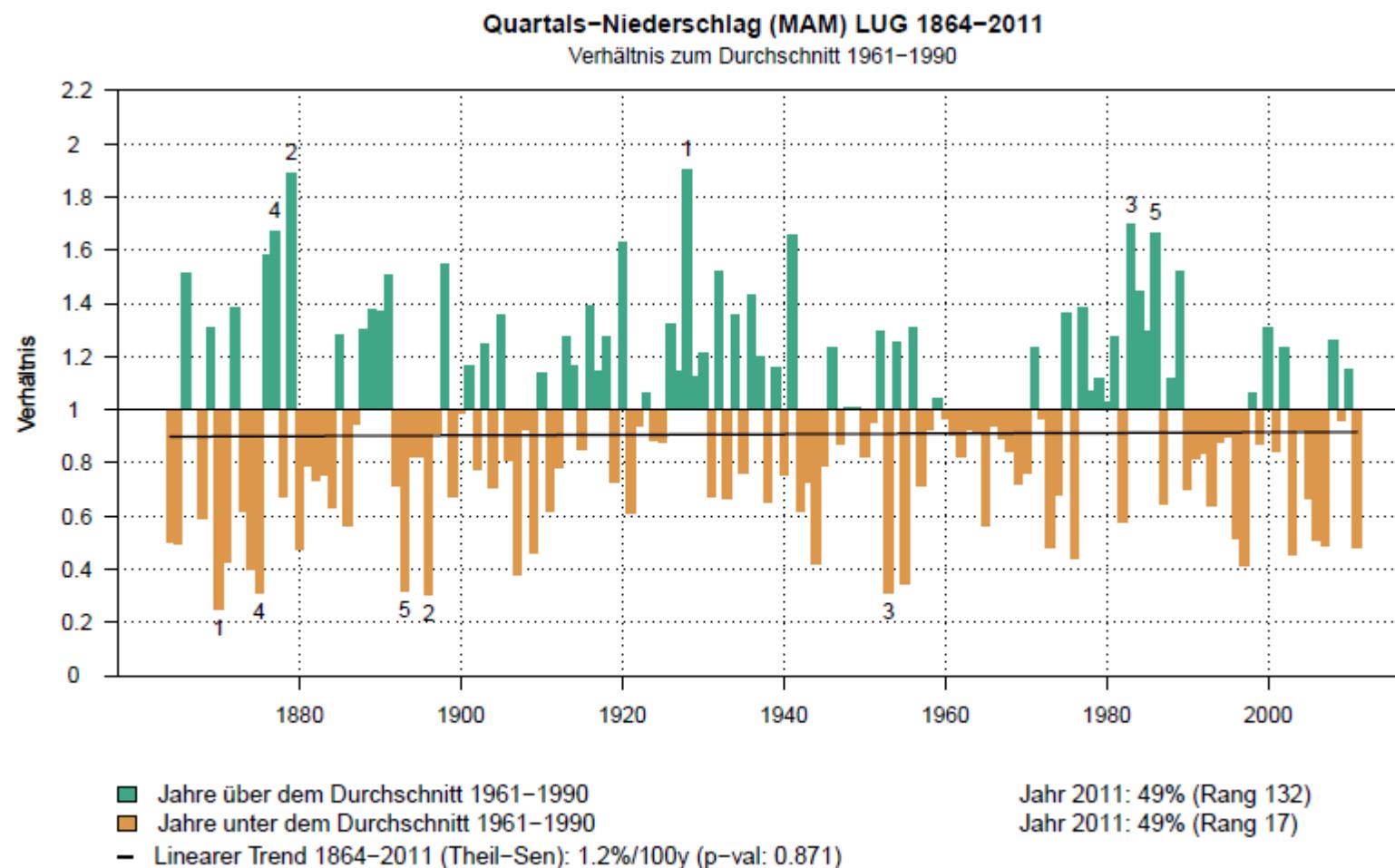
Precipitazioni maggio 2011

Monthly Precipitation Anomaly (%) May 2011 (Ref. 1961–1990)





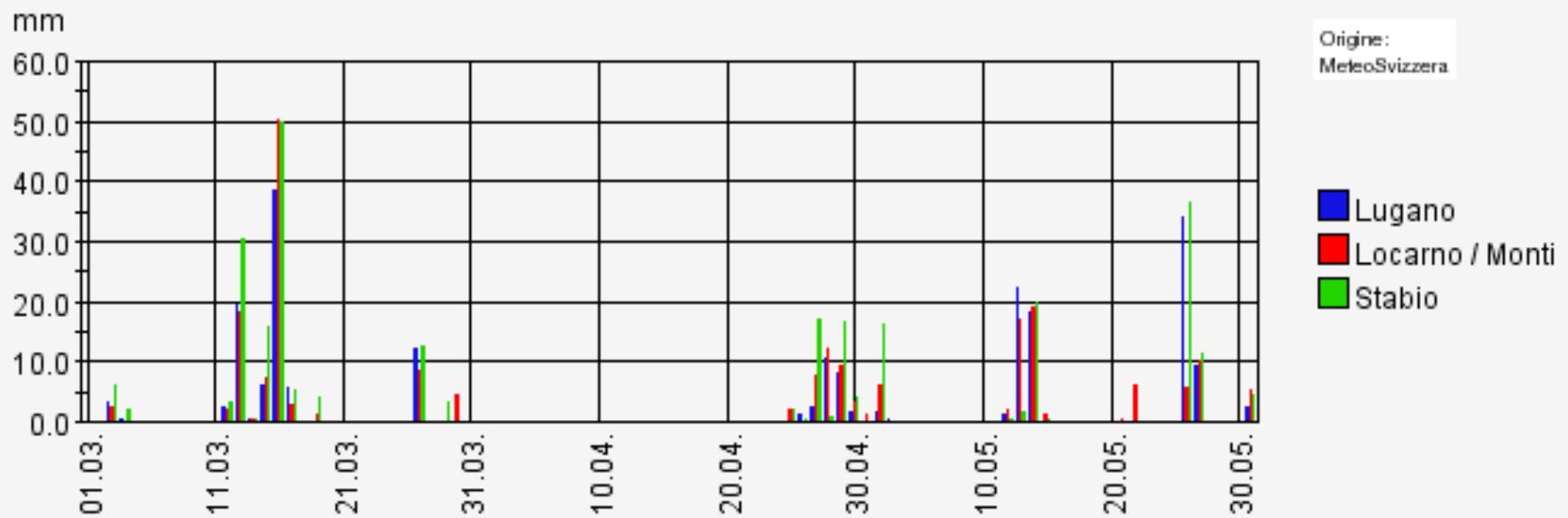
La primavera 2011 rispetto alle altre





Precipitazioni giornaliere

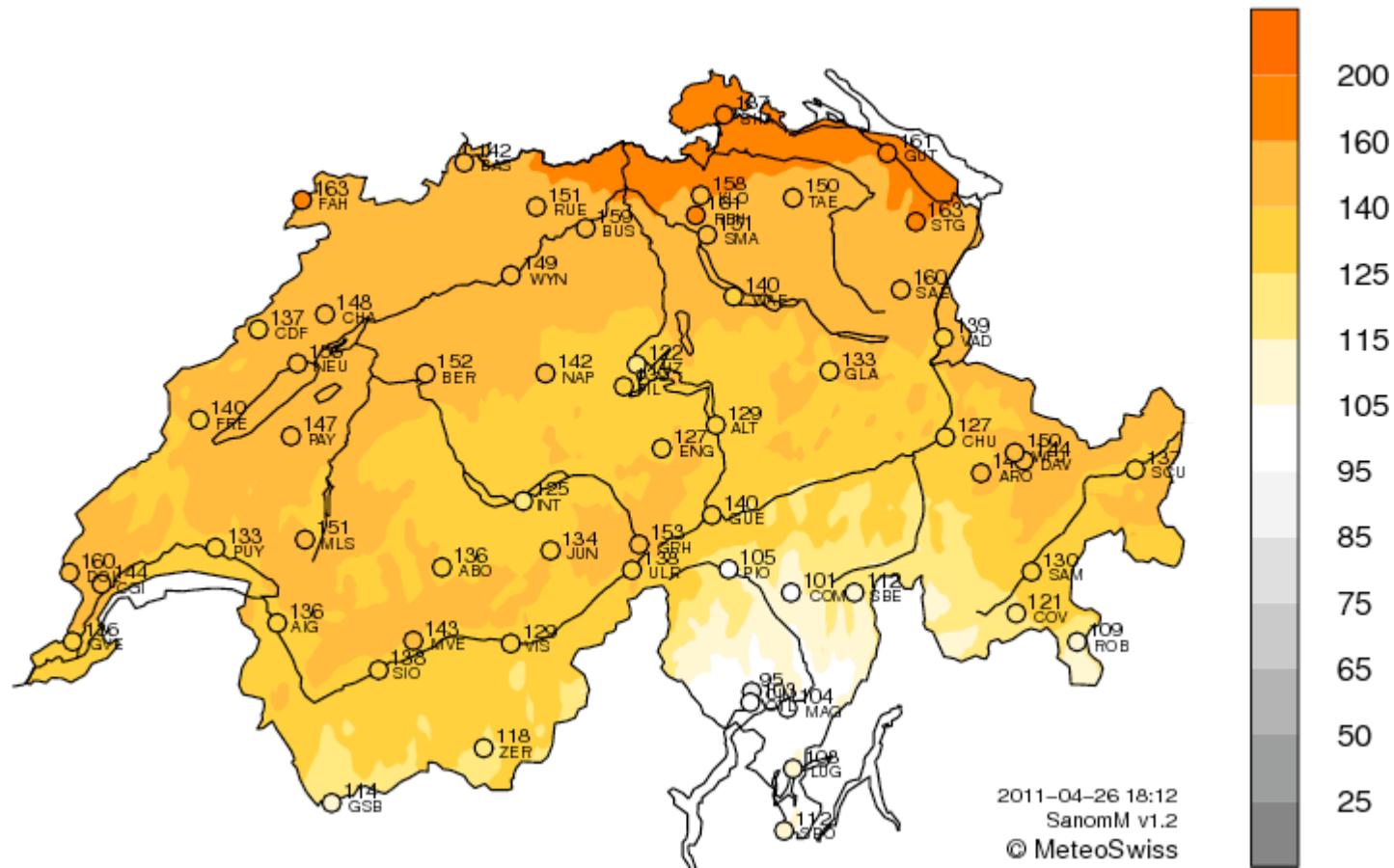
Precipitazioni; somma giornaliera civile [mm] 01.03.2011 - 31.05.2011





Soleggiamento: anomalia marzo 2011

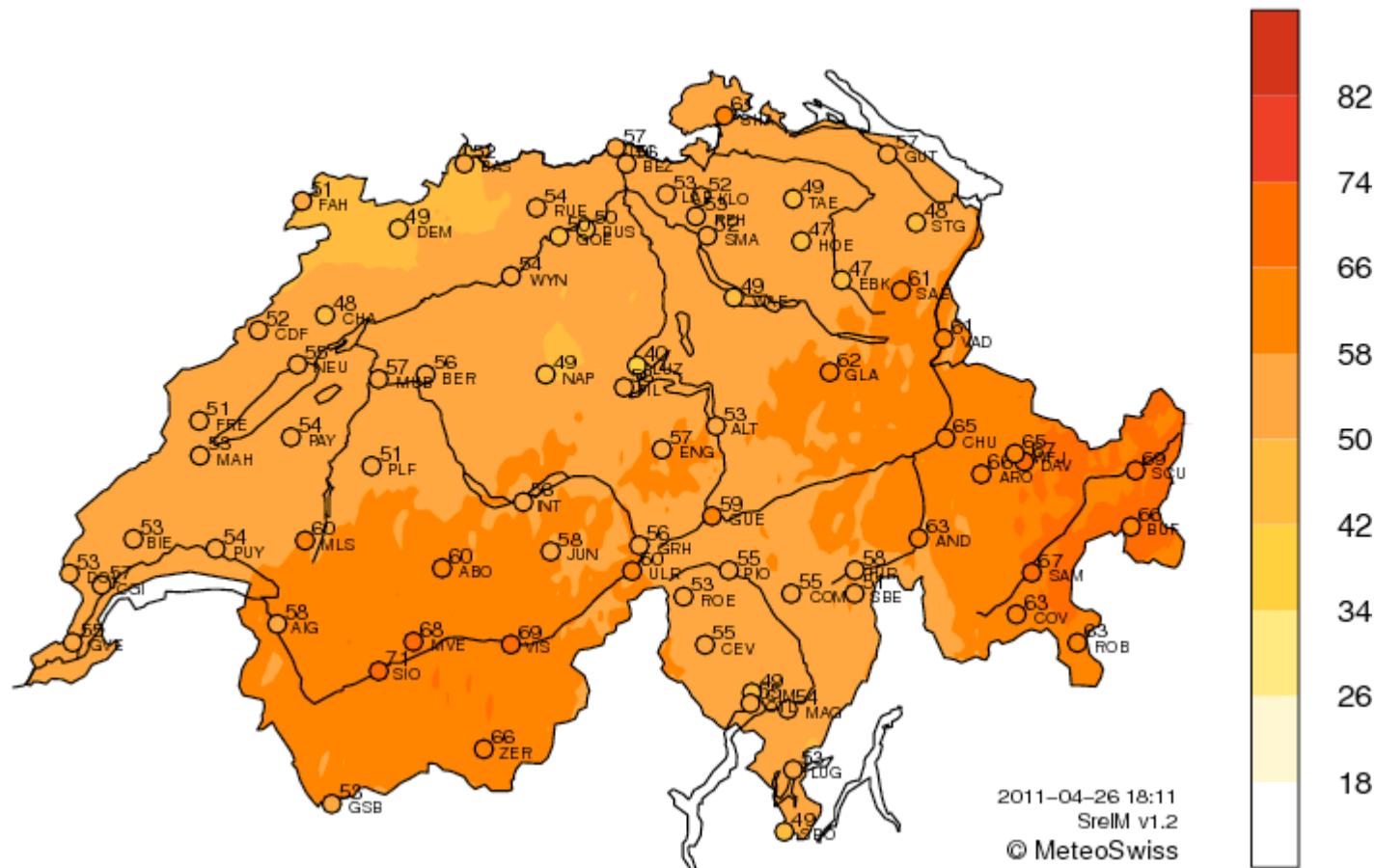
Monthly Sunshine Duration Anomaly (%) Mar 2011 (Ref. 1961–1990)





Soleggiamento relativo: marzo 2011

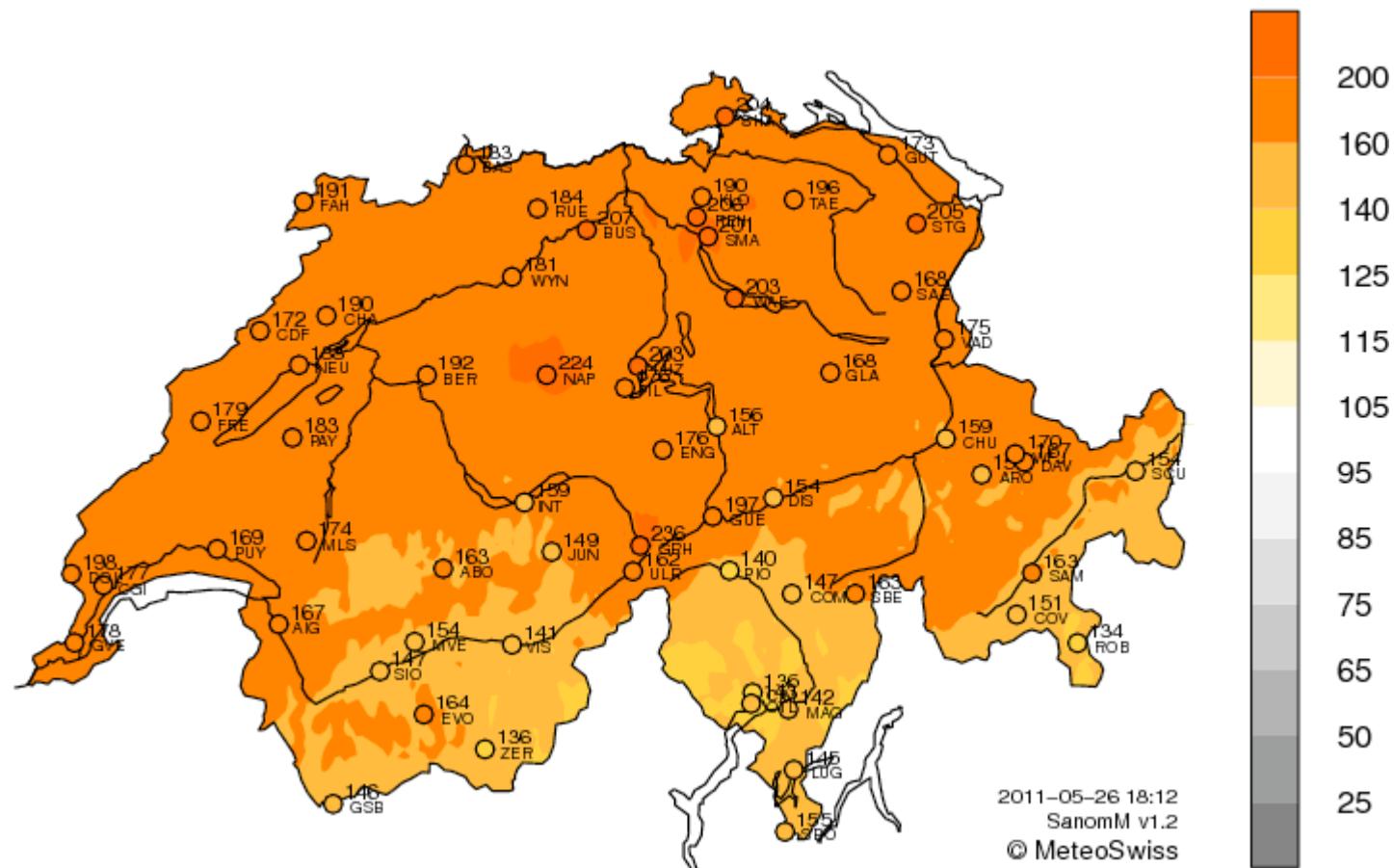
Monthly Relative Sunshine Duration (%) Mar 2011





Soleggiamento: anomalia aprile 2011

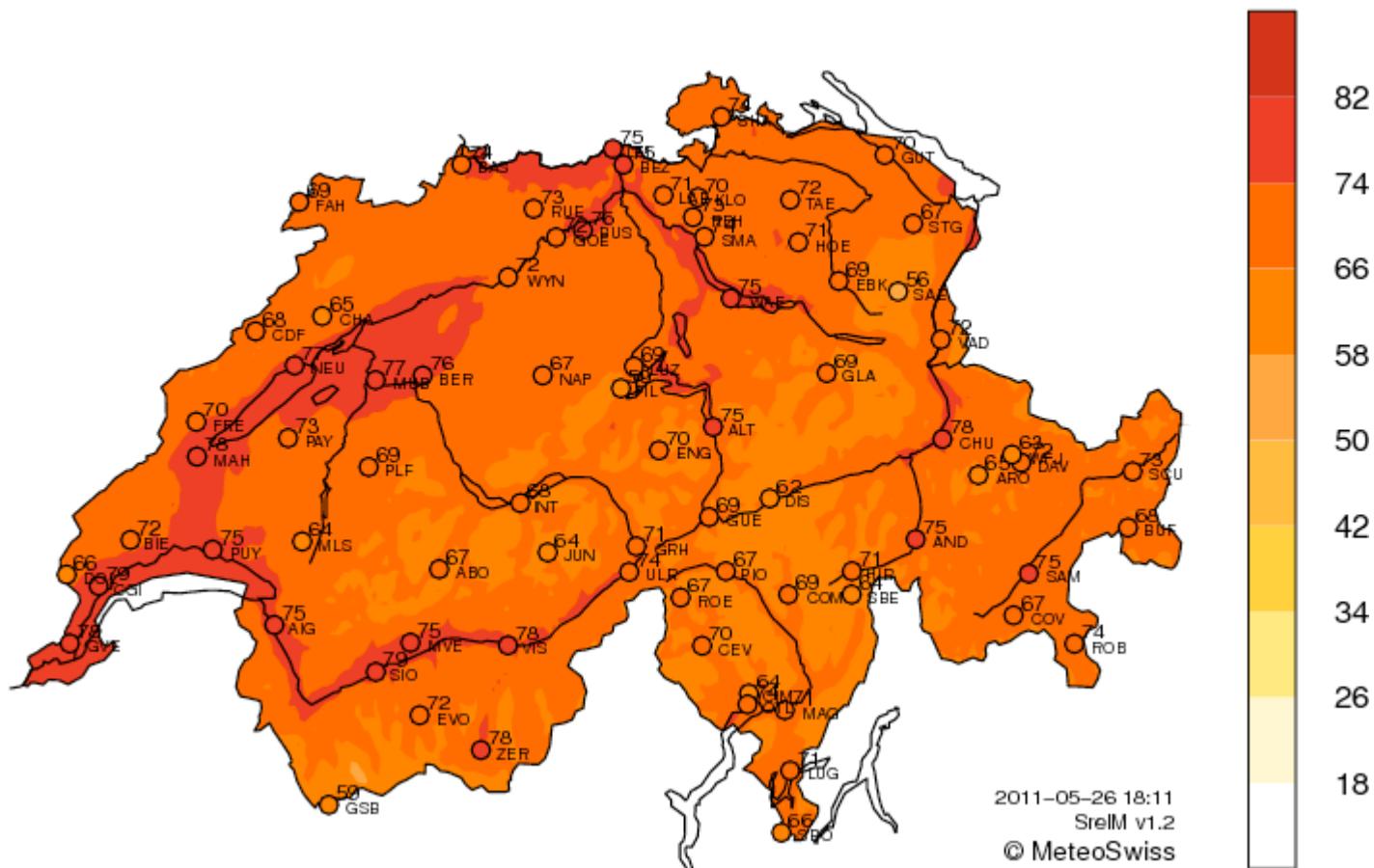
Monthly Sunshine Duration Anomaly (%) Apr 2011 (Ref. 1961–1990)





Soleggiamento relativo: aprile 2011

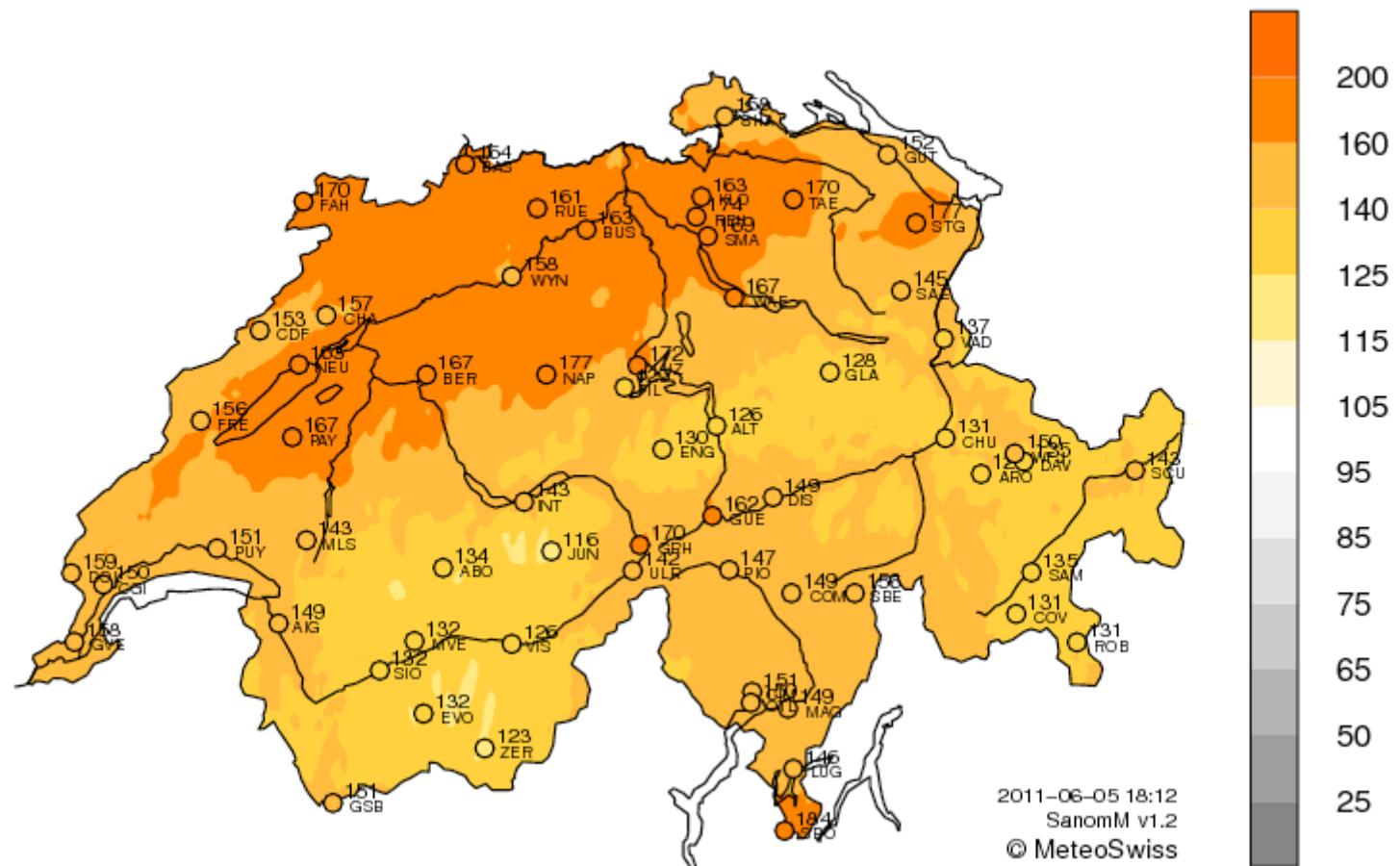
Monthly Relative Sunshine Duration (%) Apr 2011





Soleggiamento: anomalia maggio 2011

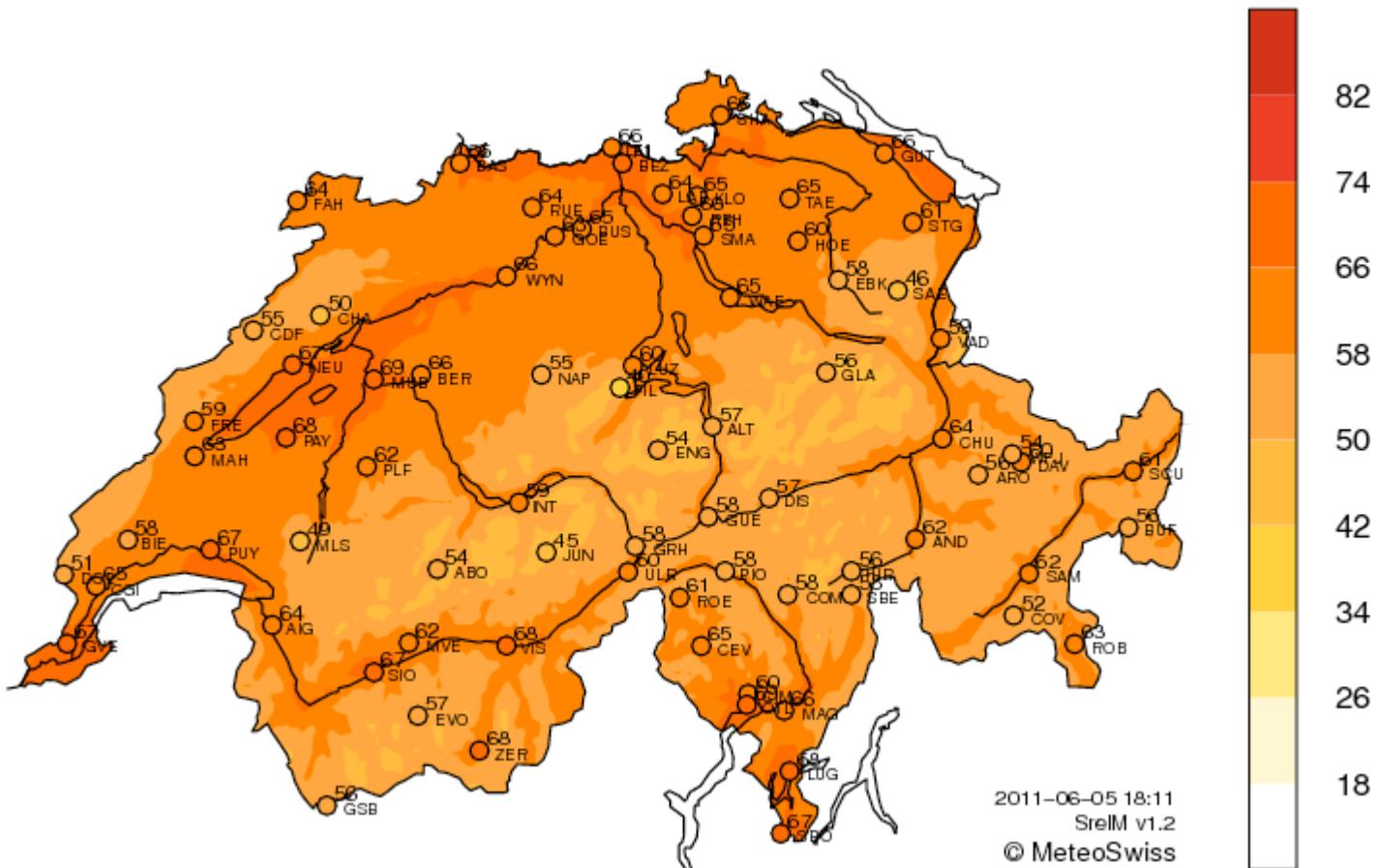
Monthly Sunshine Duration Anomaly (%) May 2011 (Ref. 1961–1990)





Soleggiamento relativo: maggio 2011

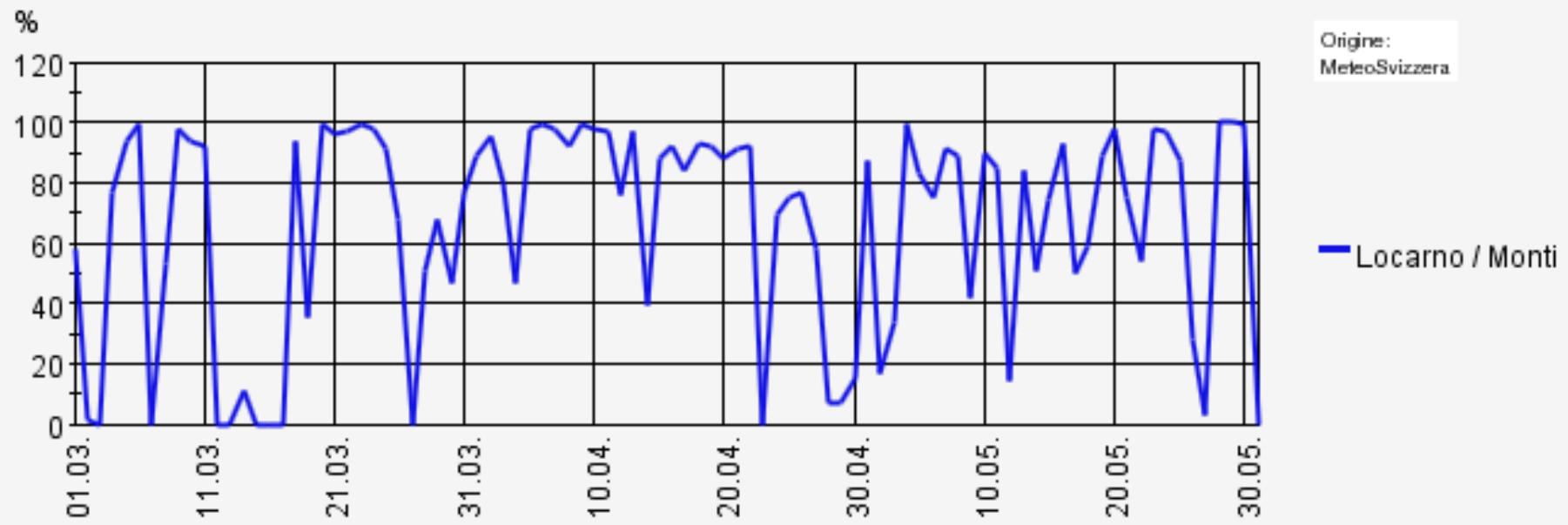
Monthly Relative Sunshine Duration (%) May 2011





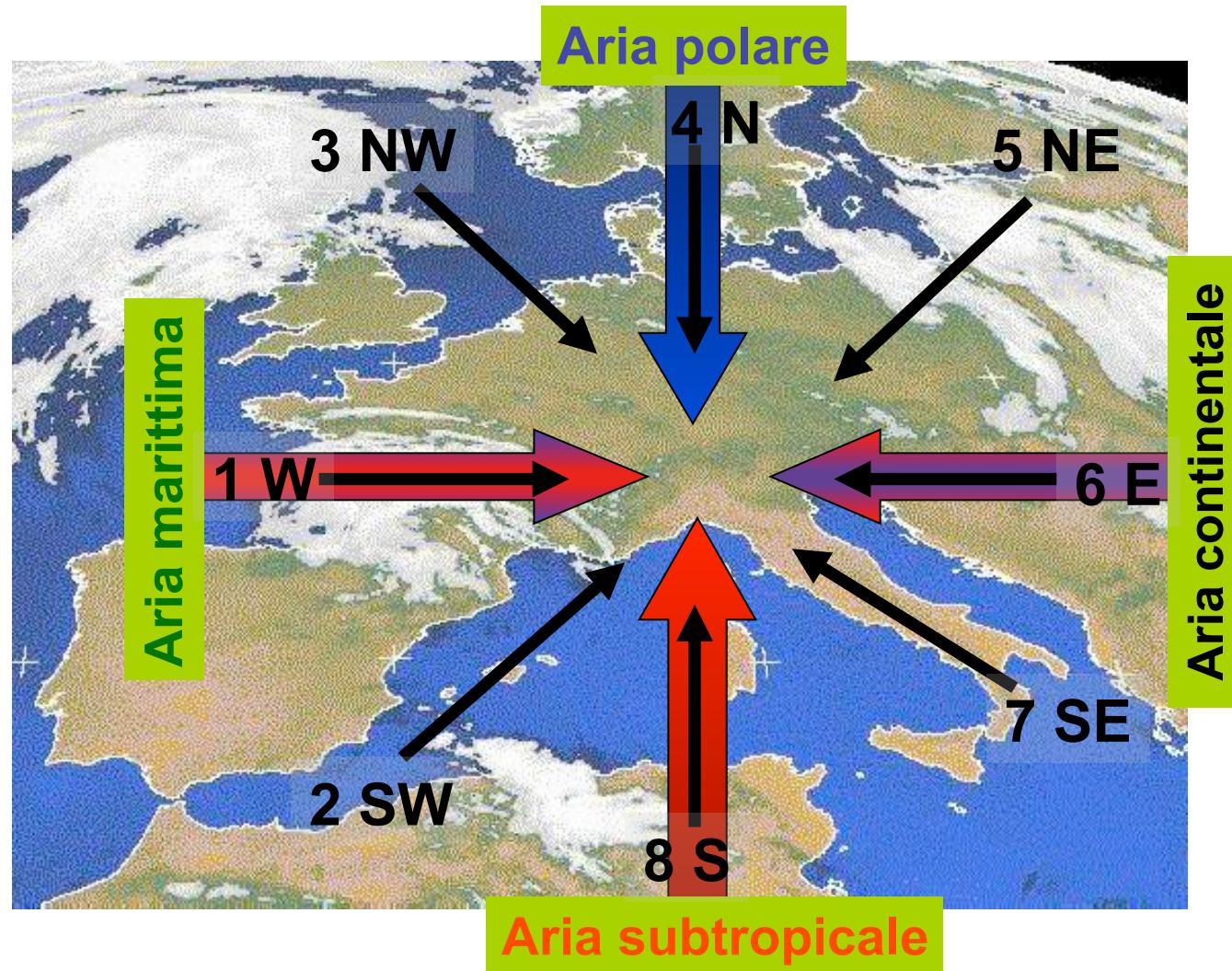
Solegggiamento Locarno

Solegggiamento; rispetto al massimo giornaliero possibile [%] 01.03.2011 - 31.05.2011



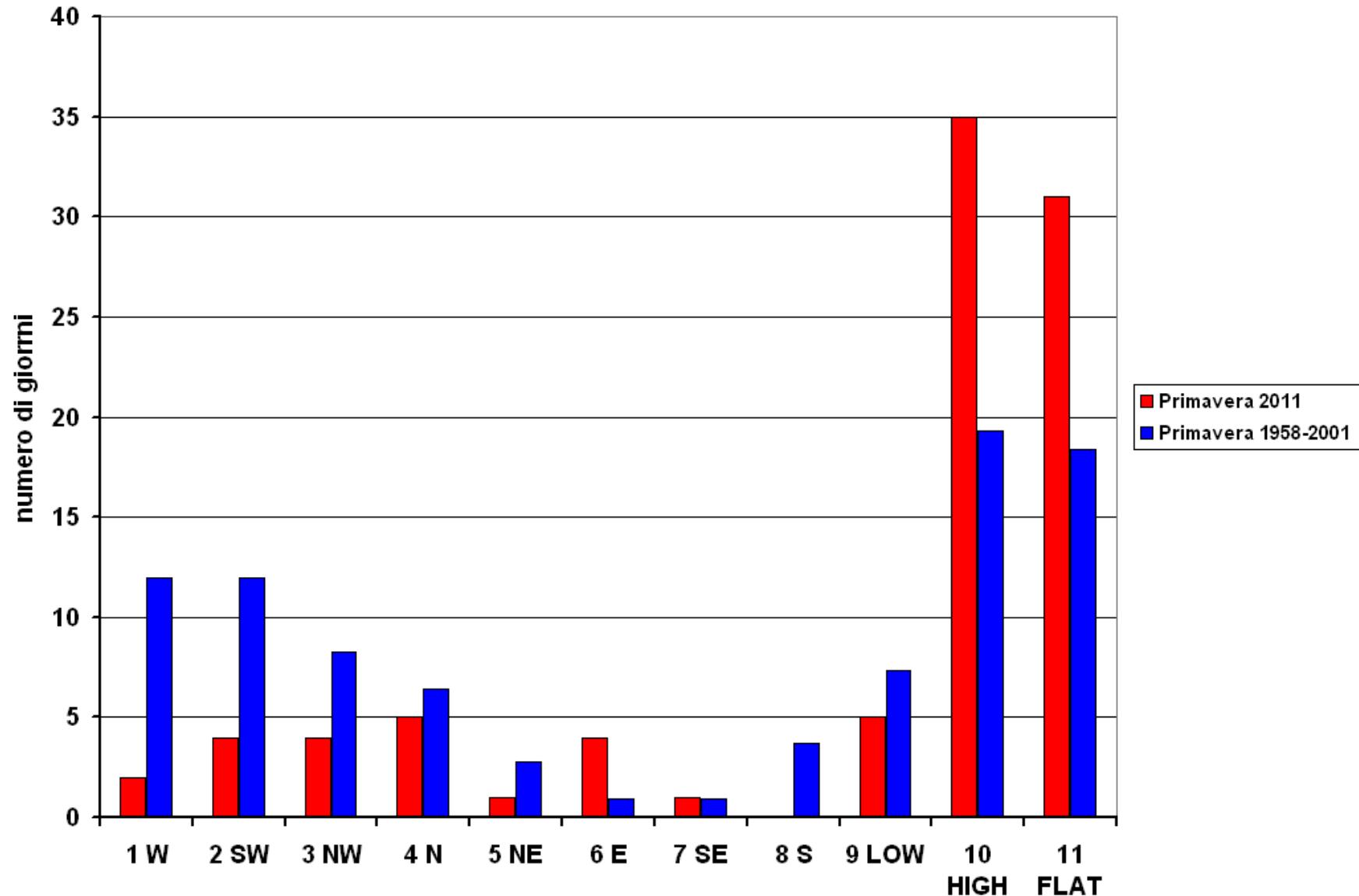


Massa d'aria diverse, tempo diverso, situazioni diverse



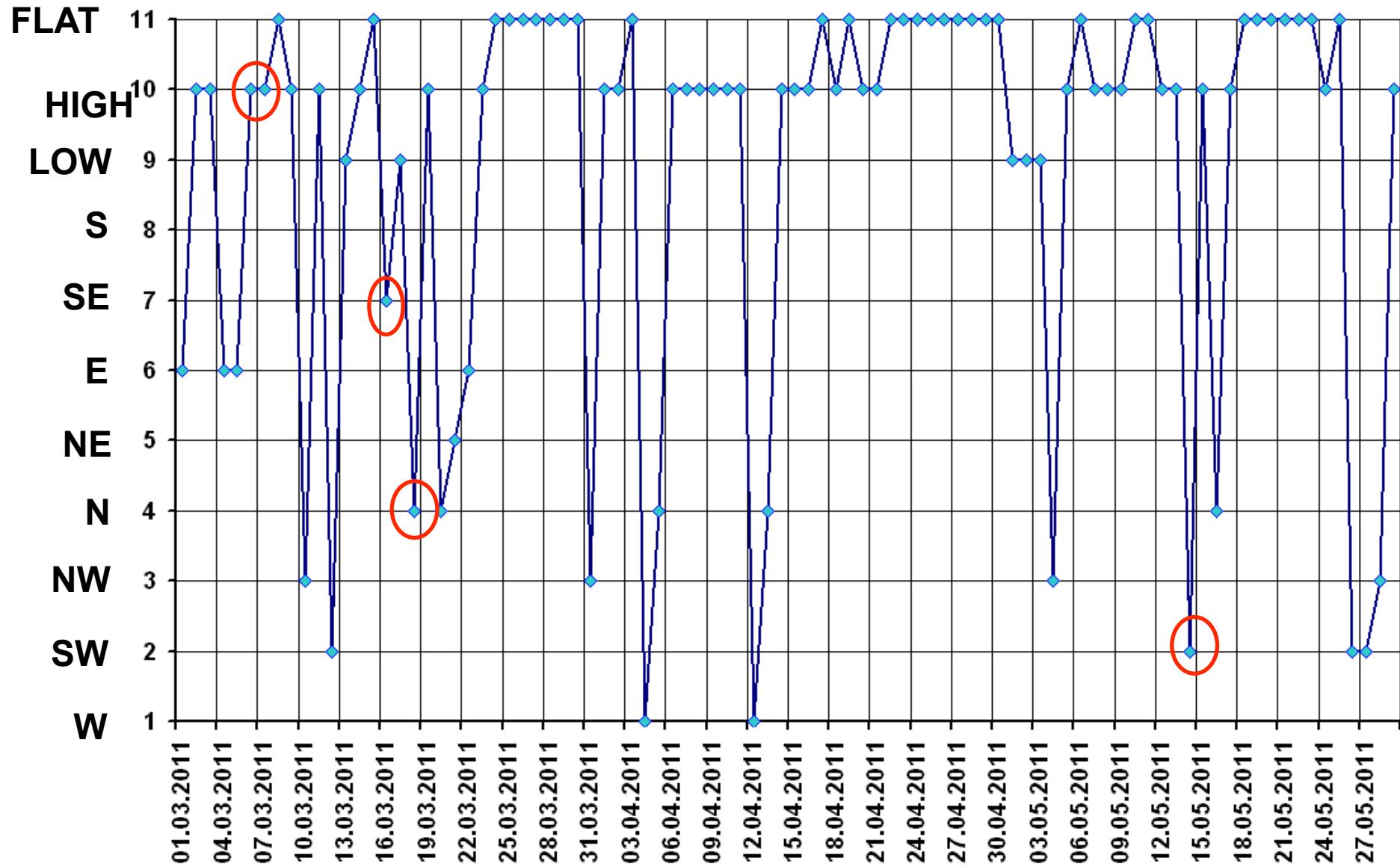


La distribuzione delle situazioni





L'evoluzione delle situazioni





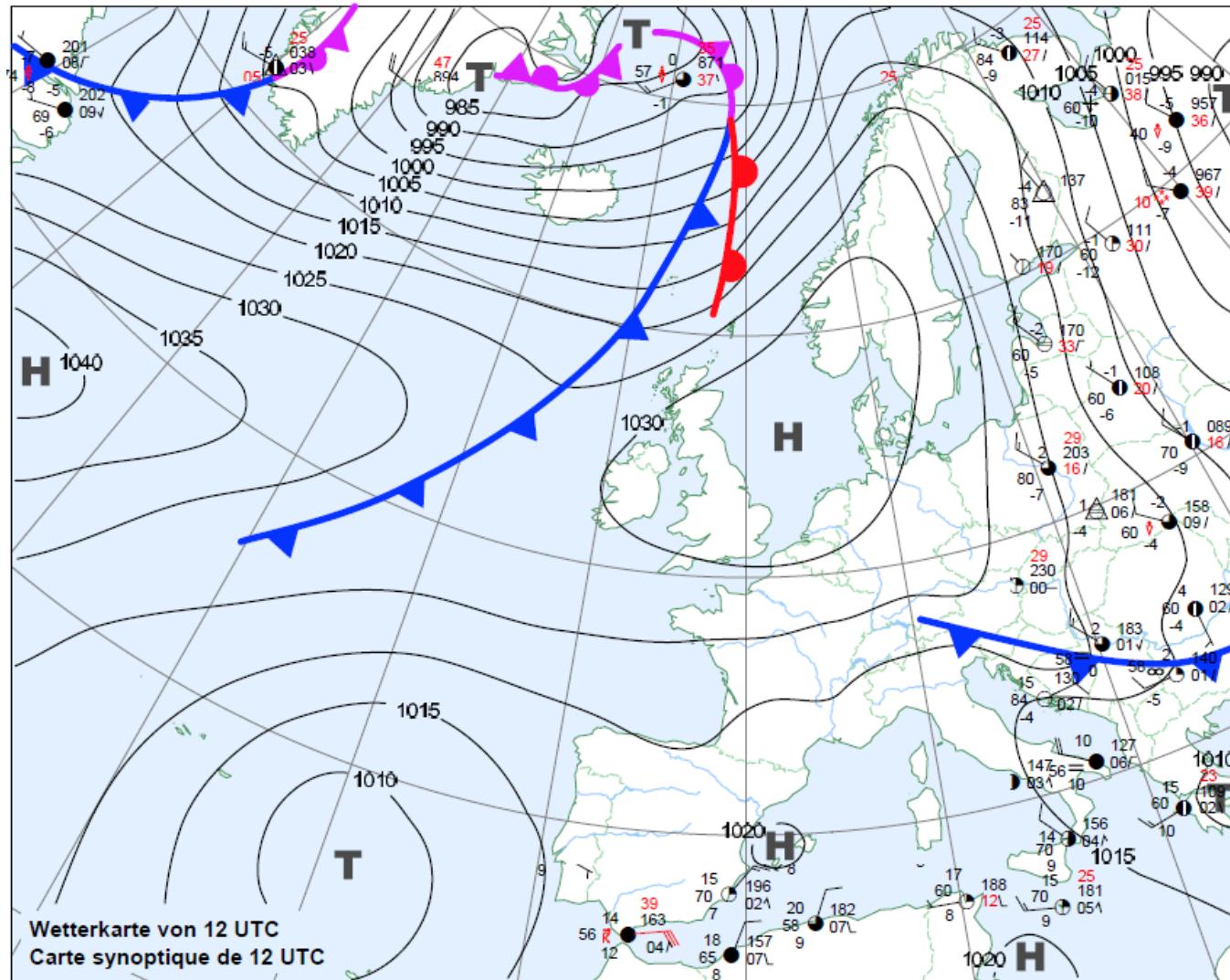
6-7 marzo 2011: retour d'est

Wetterübersicht vom Sonntag
Résumé météorologique du Dimanche

6.3.2011

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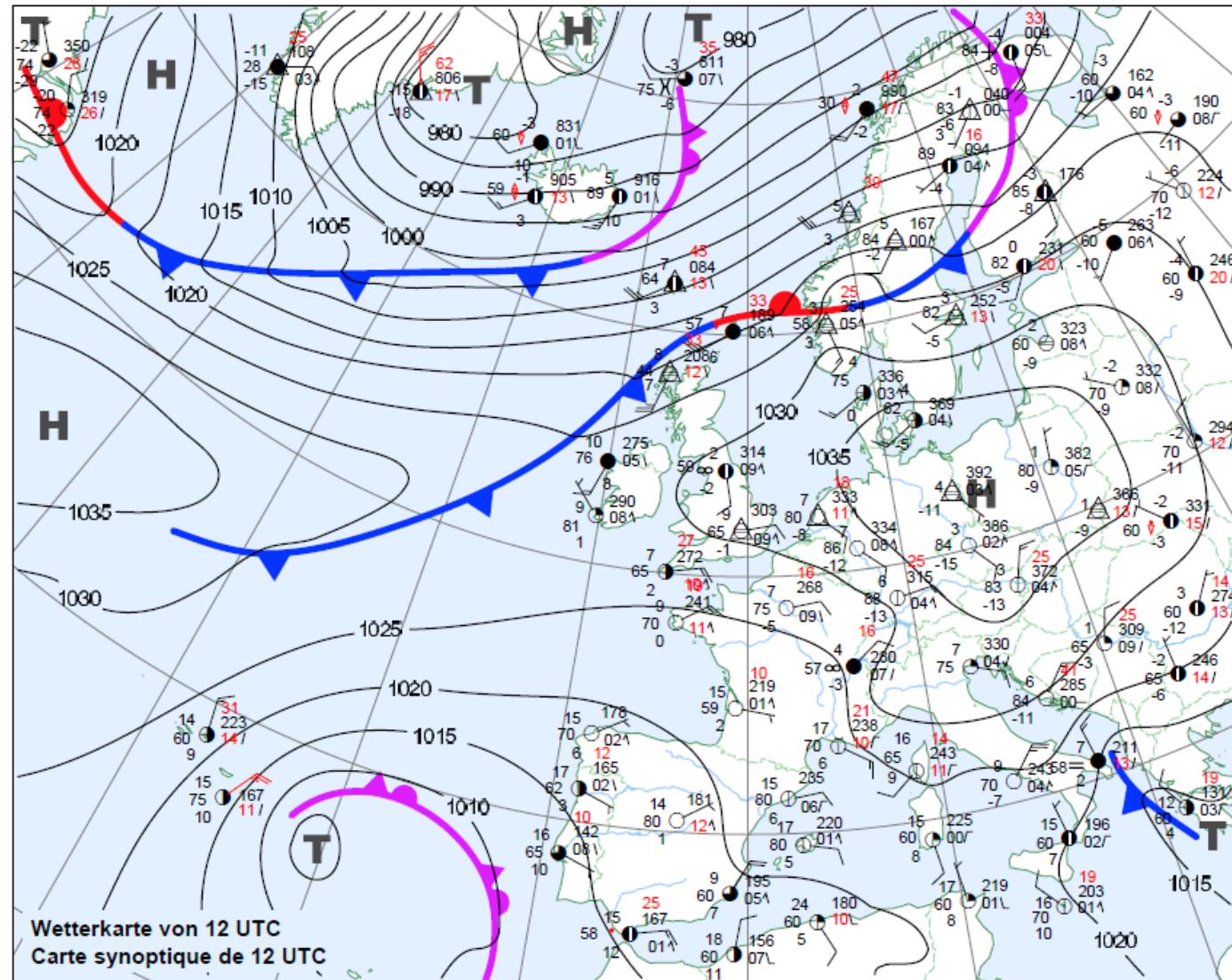
6-7 marzo 2011: retour d'est

Wetterübersicht vom Montag
Résumé météorologique du Lundi

7.3.2011

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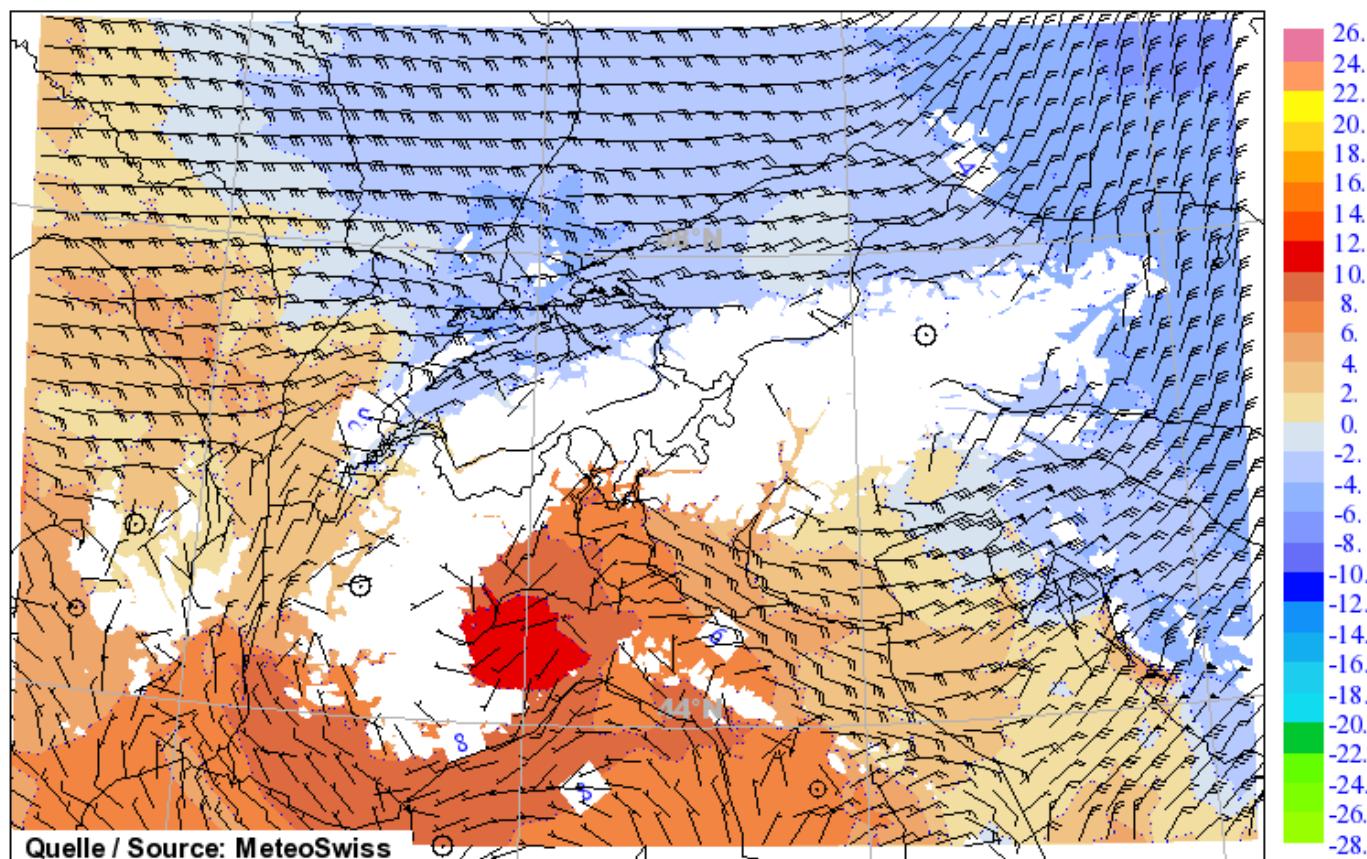
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Département fédéral de l'Intérieur DFI
Bundesamt für Meteorologie und Klimatologie MeteoSchweiz
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Vento e temperatura a 1000 m

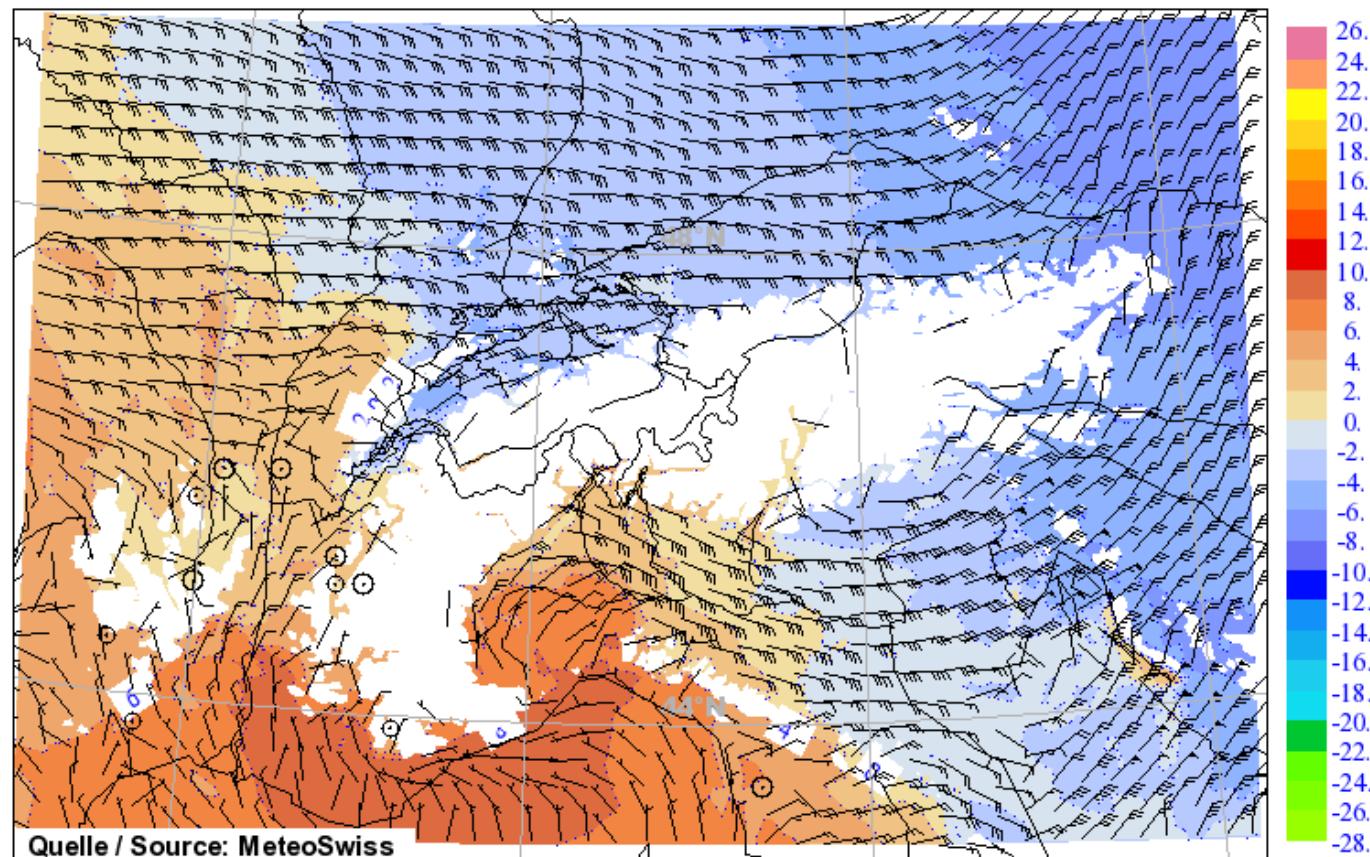
COSMO-2 Analysis for: Sun 6 Mar 2011 21 UTC Version: opr 2km (895)
Temperature in °C at 1km height and wind every 12 grid points Run: 06.03.2011 21UTC+0h





Vento e temperatura a 1000 m

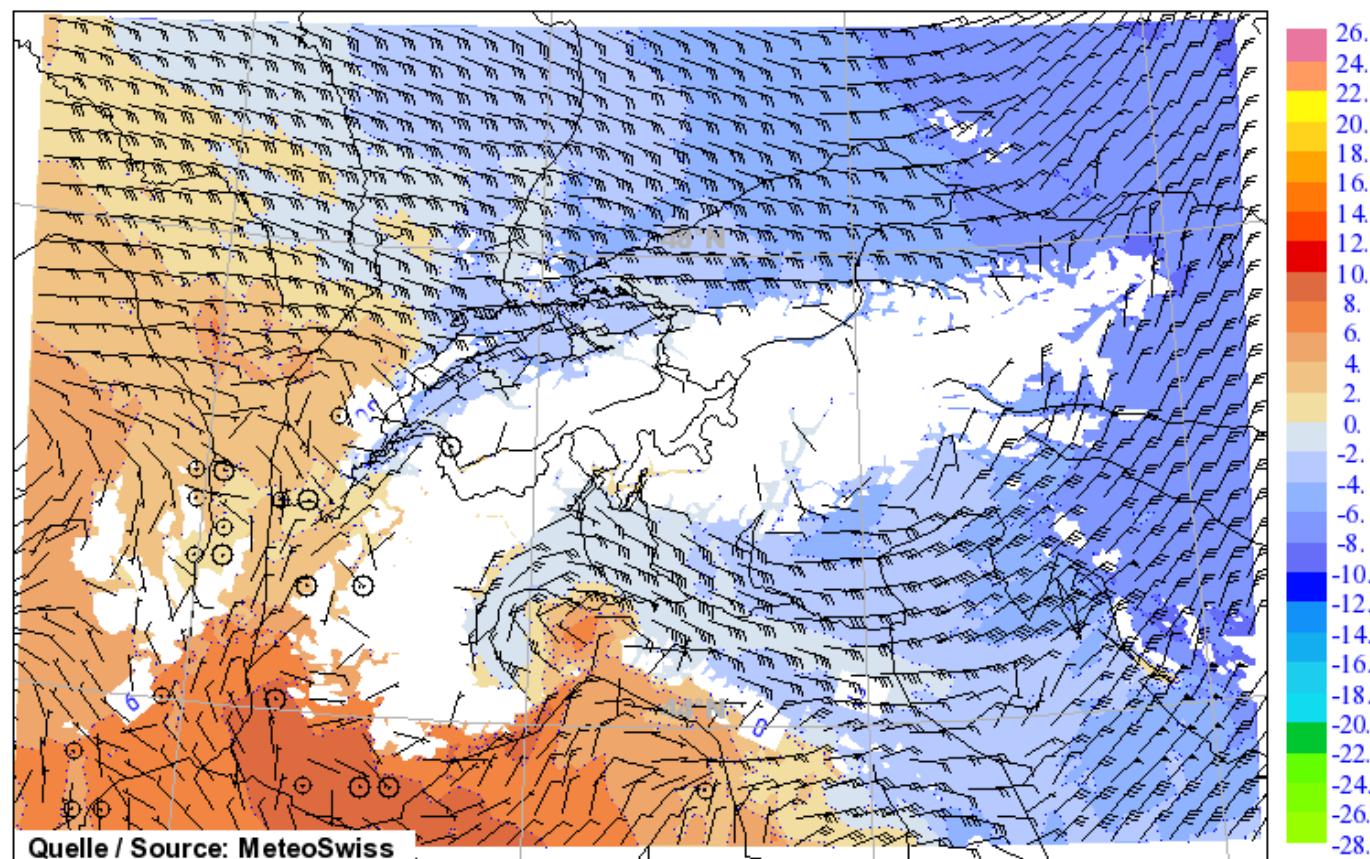
COSMO-2 Forecast for: **Mon 7 Mar 2011 00 UTC** Version: **opr 2km (895)**
Temperature in °C at 1km height and wind every 12 grid points Run: **06.03.2011 21UTC+3h**





Vento e temperatura a 1000 m

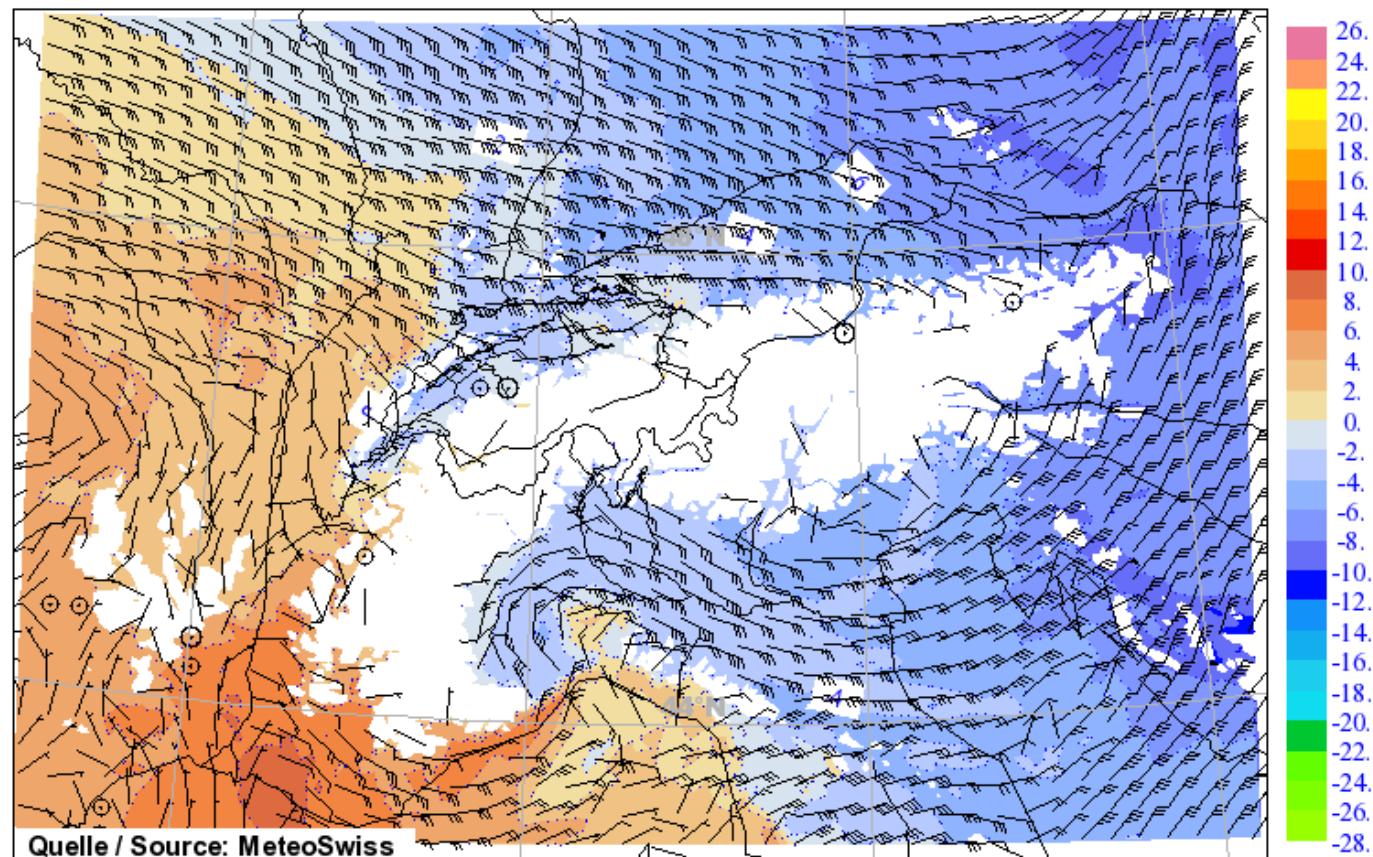
COSMO-2 Forecast for: Mon 7 Mar 2011 03 UTC Version: opr 2km (895)
Temperature in °C at 1km height and wind every 12 grid points Run: 06.03.2011 21UTC+6h





Vento e temperatura a 1000 m

COSMO-2 Forecast for: Mon 7 Mar 2011 06 UTC Version: opr 2km (895)
Temperature in °C at 1km height and wind every 12 grid points Run: 06.03.2011 21UTC+9h





Tendenza della pressione al suolo

COSMO-2 Forecast for: Mon 7 Mar 2011 00 UTC

Version: opr 2km (895)

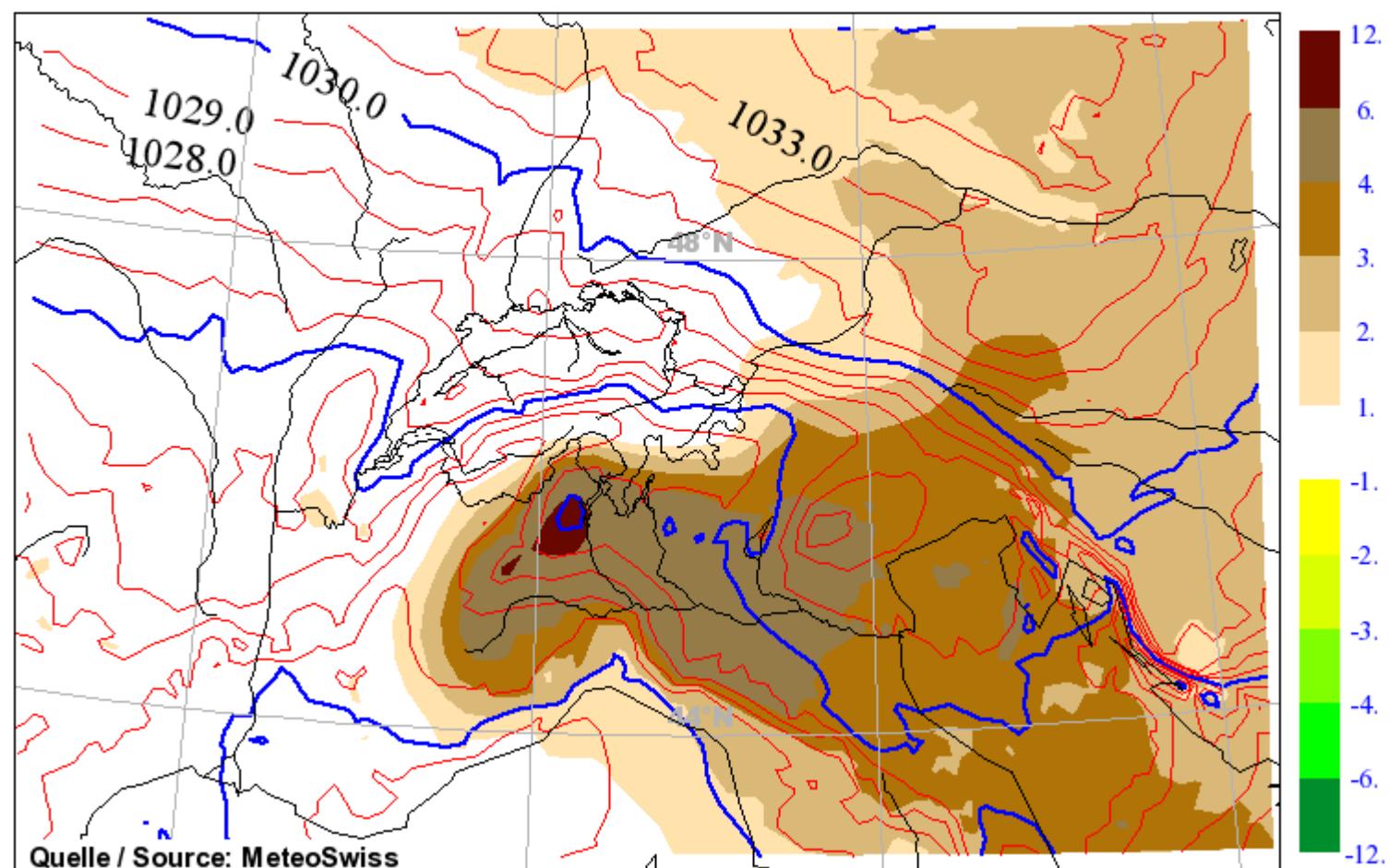
Sea Surface Pressure

Mean: 1026.44 hPa

Surface Pressure Tendency

Mean: 1.571 hPa/3h

Run: 06.03.2011 21UTC+3h





Tendenza della pressione al suolo

COSMO-2 Forecast for: Mon 7 Mar 2011 03 UTC

Sea Surface Pressure

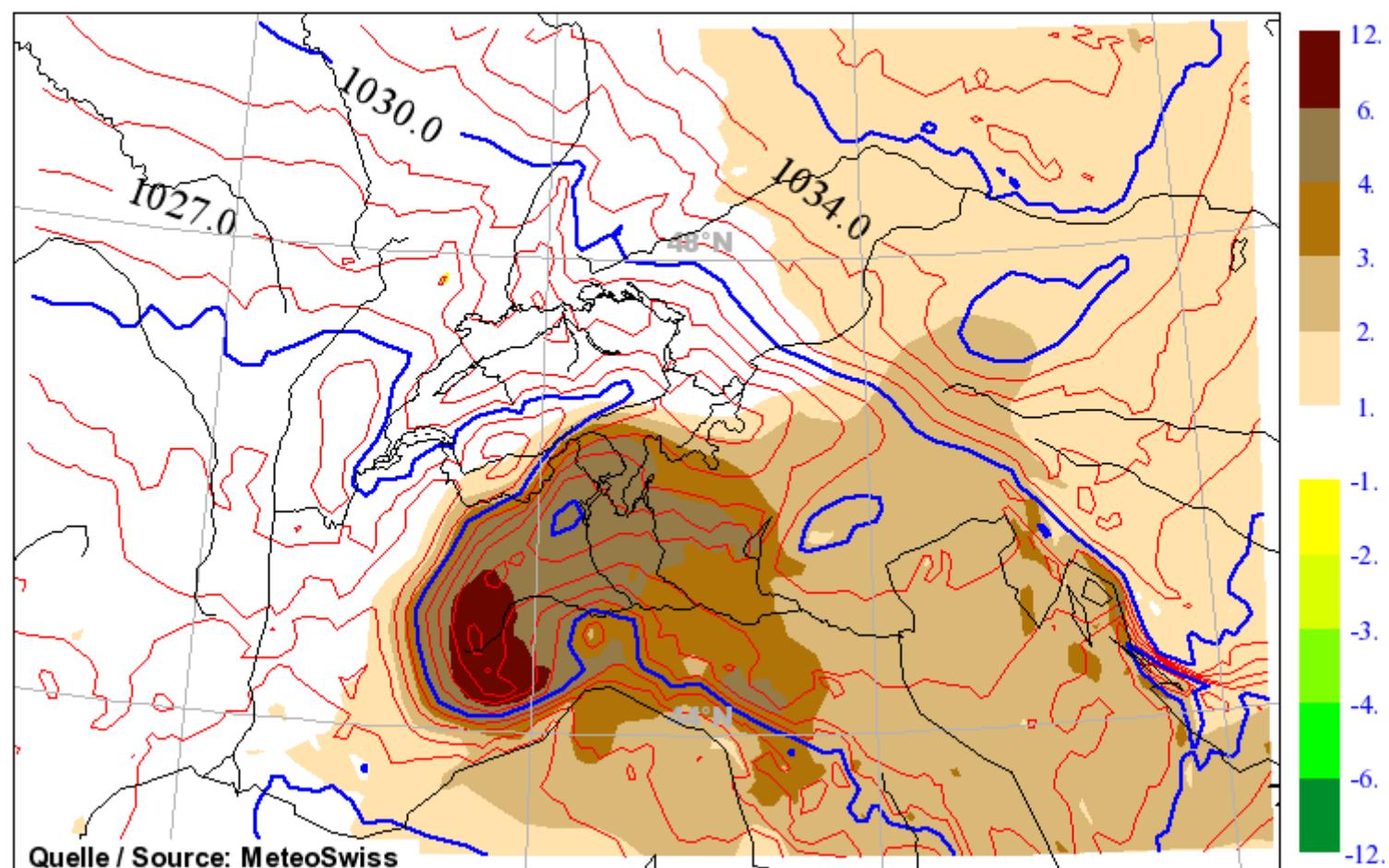
Surface Pressure Tendency

Mean: 1027.831 hPa

Mean: 1.39 hPa/3h

Version: opr 2km (895)

Run: 06.03.2011 21UTC+6h





Tendenza della pressione al suolo

COSMO-2 Forecast for: Mon 7 Mar 2011 06 UTC

Version: opr 2km (895)

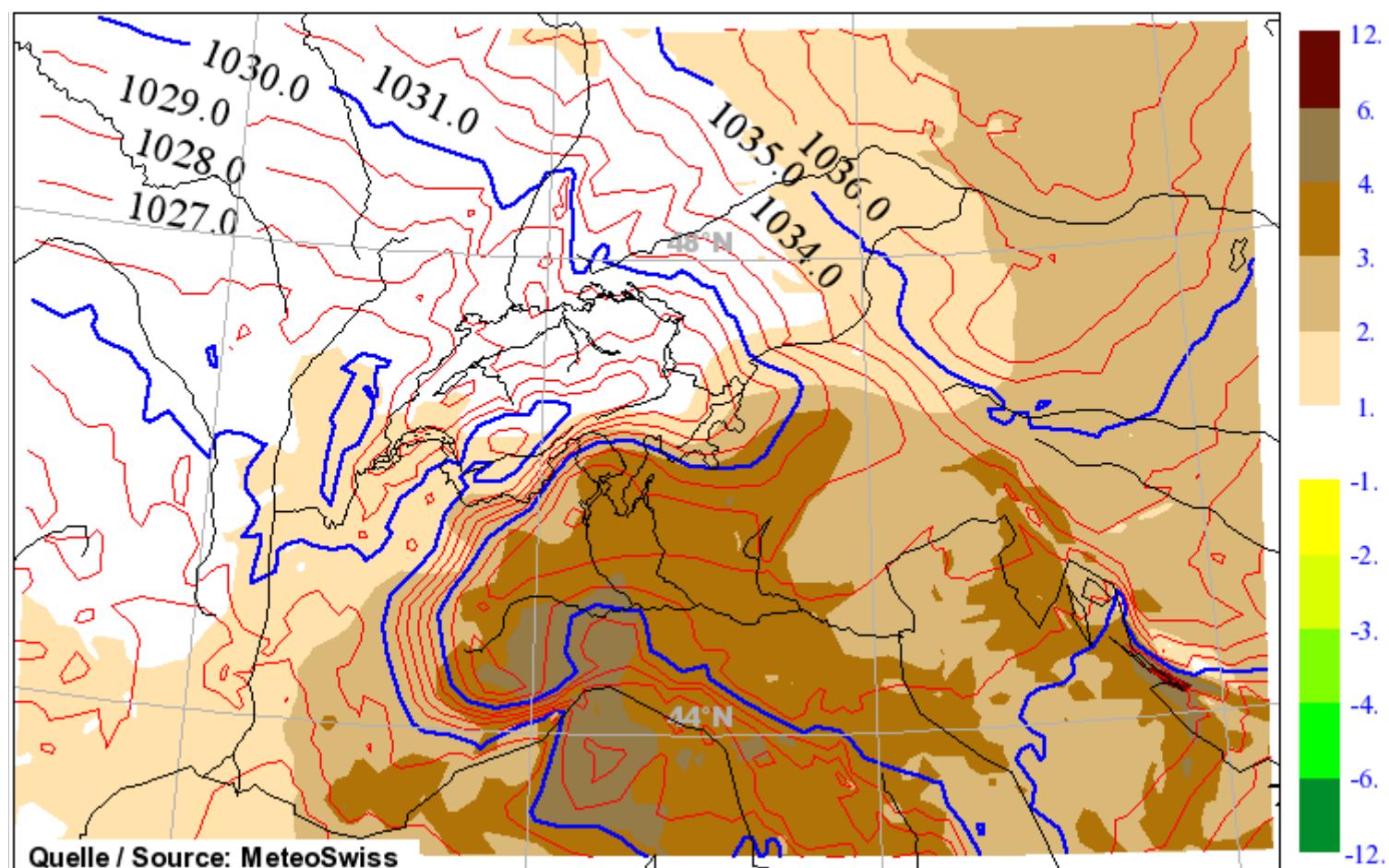
Sea Surface Pressure

Mean: 1029.697 hPa

Surface Pressure Tendency

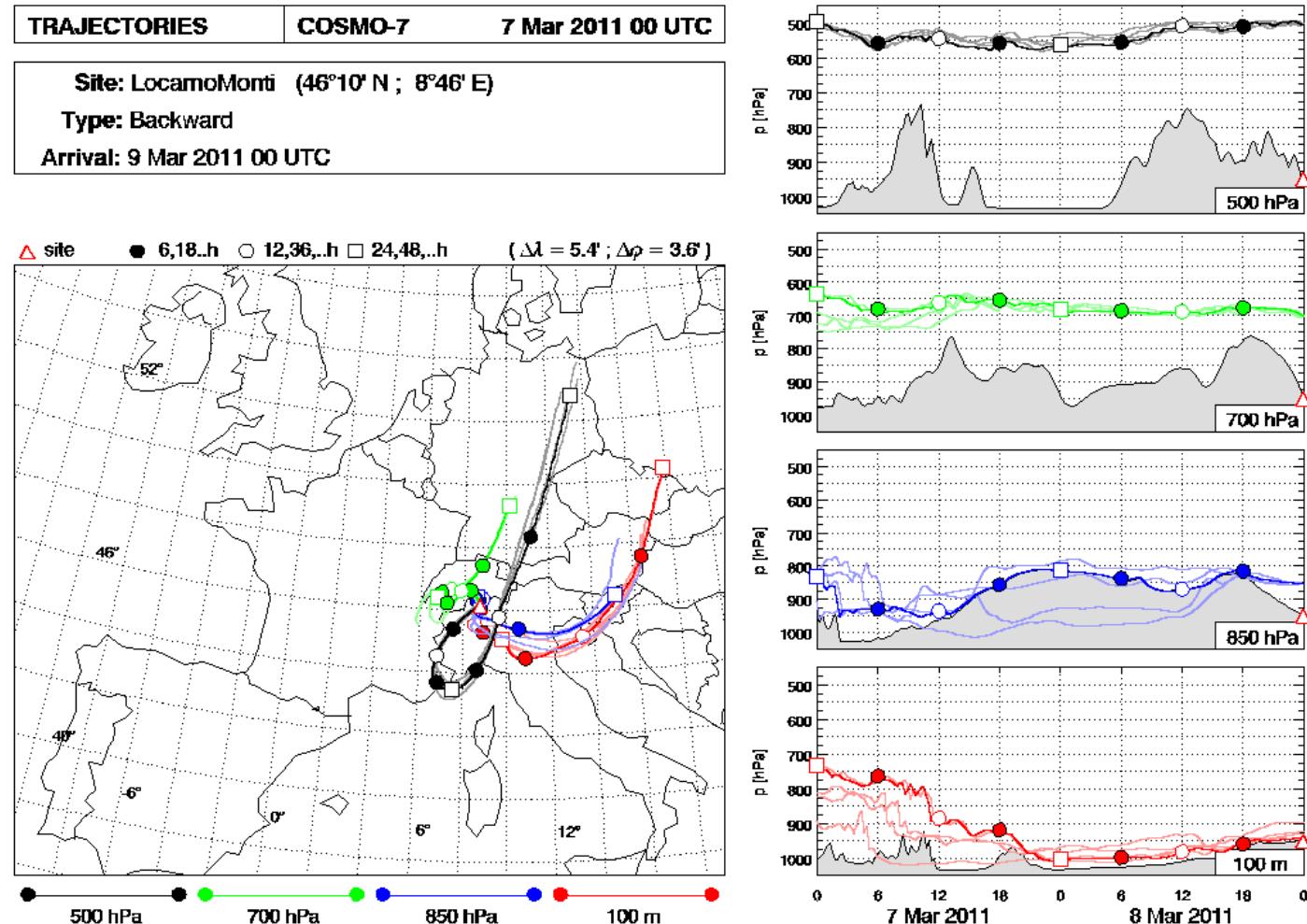
Mean: 1.866 hPa/3h

Run: 06.03.2011 21UTC+9h





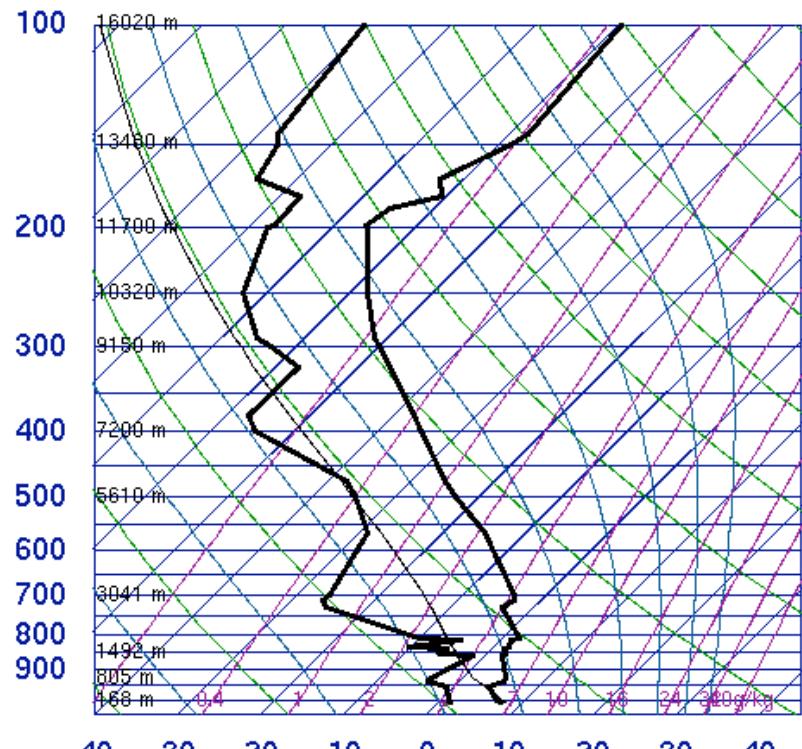
Traiettorie



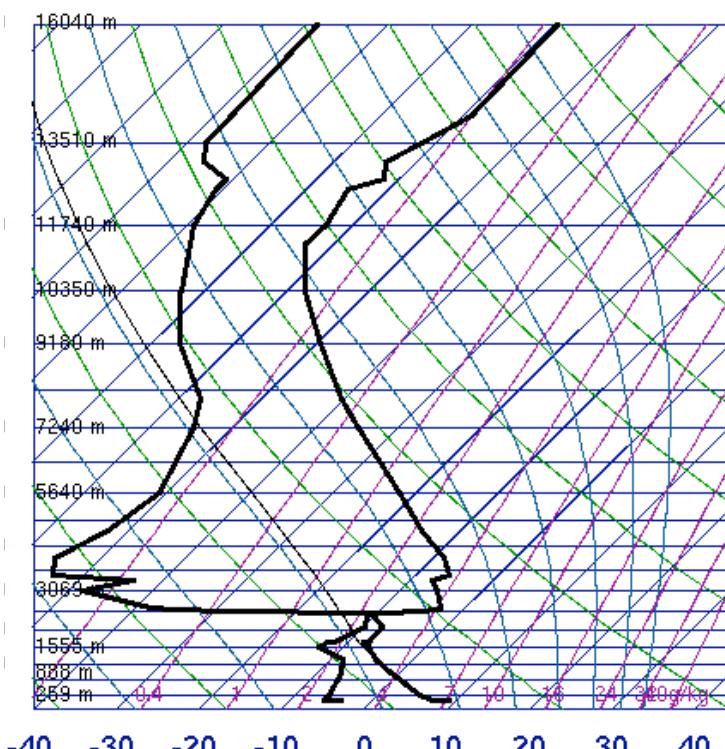


Rdiosondaggi: prima e dopo

16080 LIML Milano



10 LIML Milano

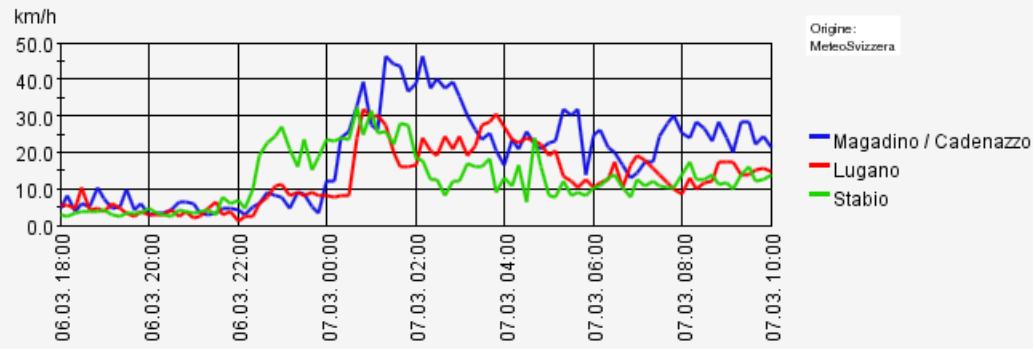


SLAT	45.43
SLON	9.28
SELV	103.0
SHOW	19.00
LIFT	17.85
LFTV	17.83
SWET	56.00
KINX	-40.9
CTOT	9.00
VTOT	15.00
TOTL	24.00
CAPE	0.00
CAPV	0.00
CINS	0.00
CINV	0.00
EQLV	-9999
EQTV	-9999
LFCT	-9999
LFCV	-9999
BRCH	0.00
BRCV	0.00
LCLT	264.8
LCLP	840.9
MLTH	278.3
MLMR	2.45
THCK	5381.
PWAT	6.43

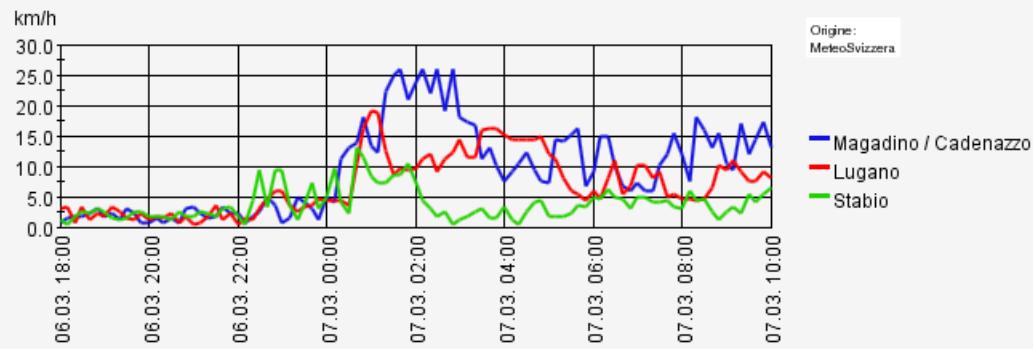


Vento a 10 m

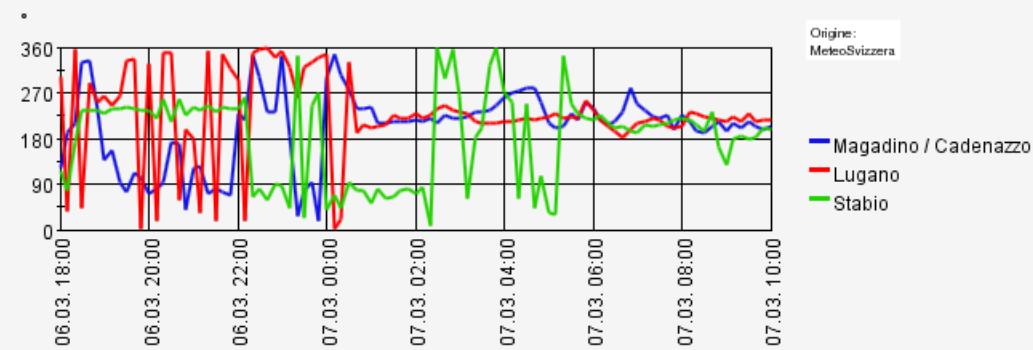
Raffica del vento (su un secondo); massima [km/h] 06.03.2011 18:00 UTC - 07.03.2011 10:00 UTC



Velocità del vento; media su 10' [km/h] 06.03.2011 18:00 UTC - 07.03.2011 10:00 UTC

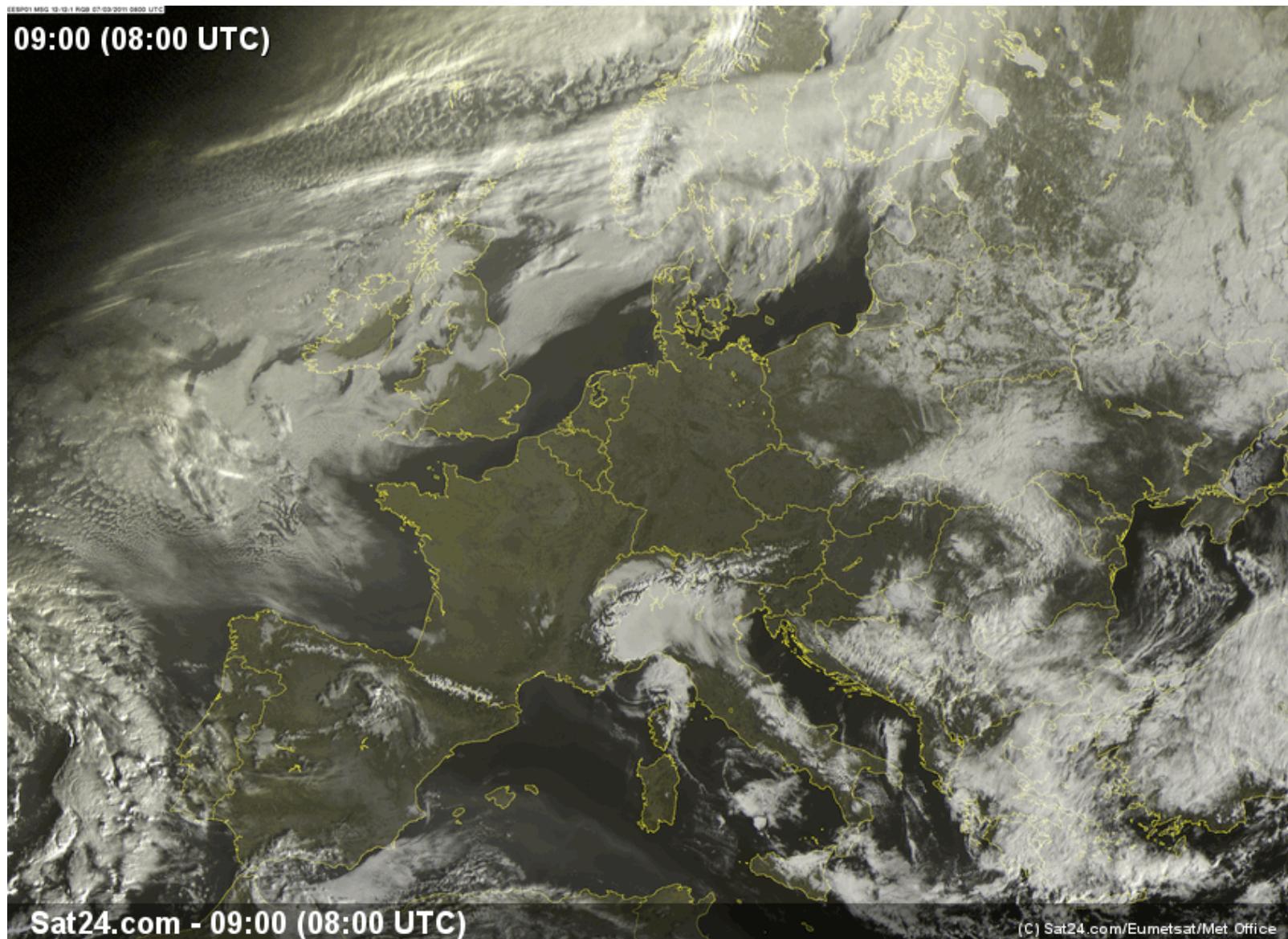


Direzione del vento; media su 10' [°] 06.03.2011 18:00 UTC - 07.03.2011 10:00 UTC





Dal satellite





Dalla webcam

2011-03-07 05:00 UTC



MeteoSwiss

2011-03-07 06:00 UTC



MeteoSwiss

2011-03-07 07:00 UTC



MeteoSwiss



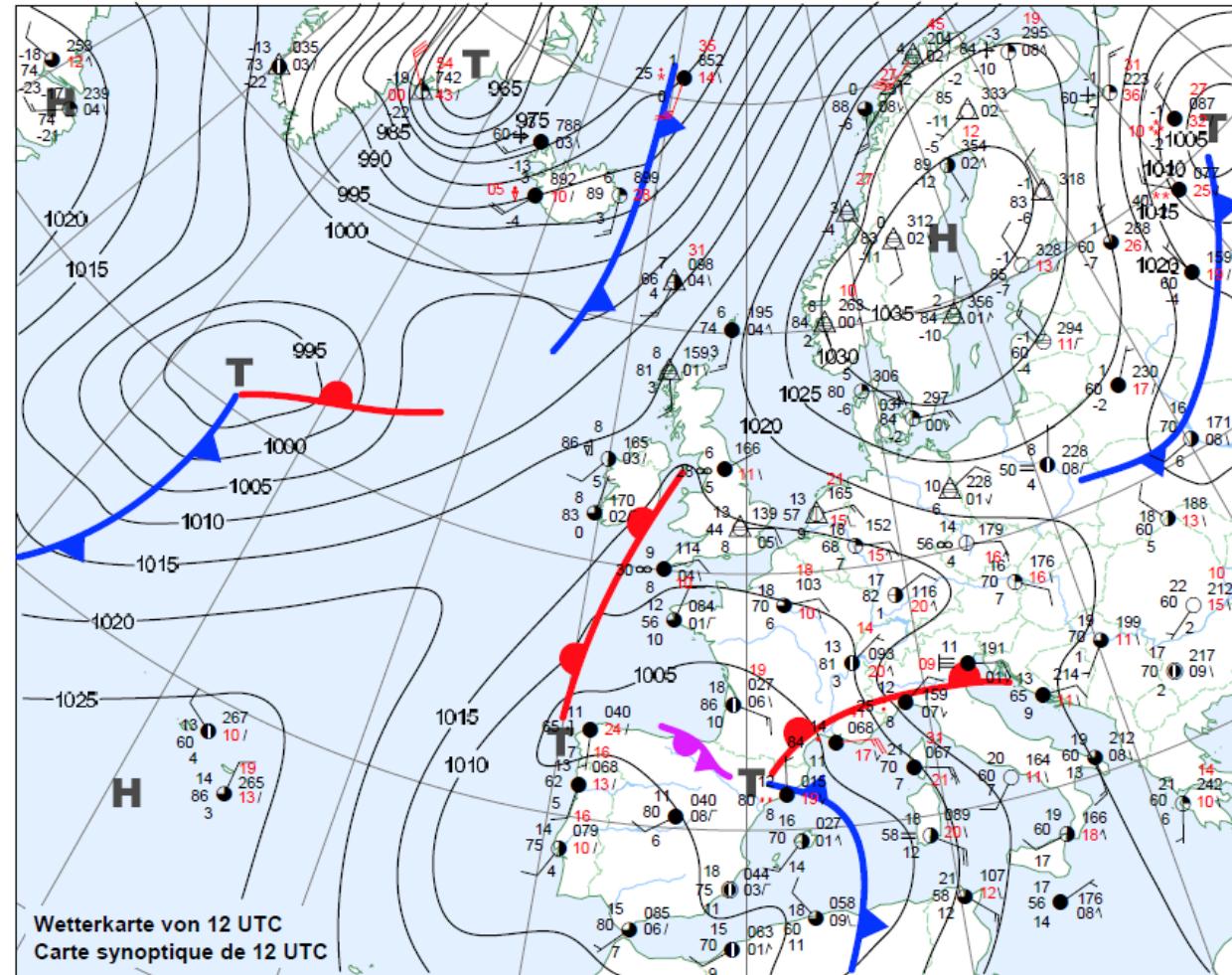
15-16.3 depressione sul Golfo di Genova

Wetterübersicht vom Dienstag
Résumé météorologique du Mardi

15.3.2011

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15-16.3 depressione sul Golfo di Genova

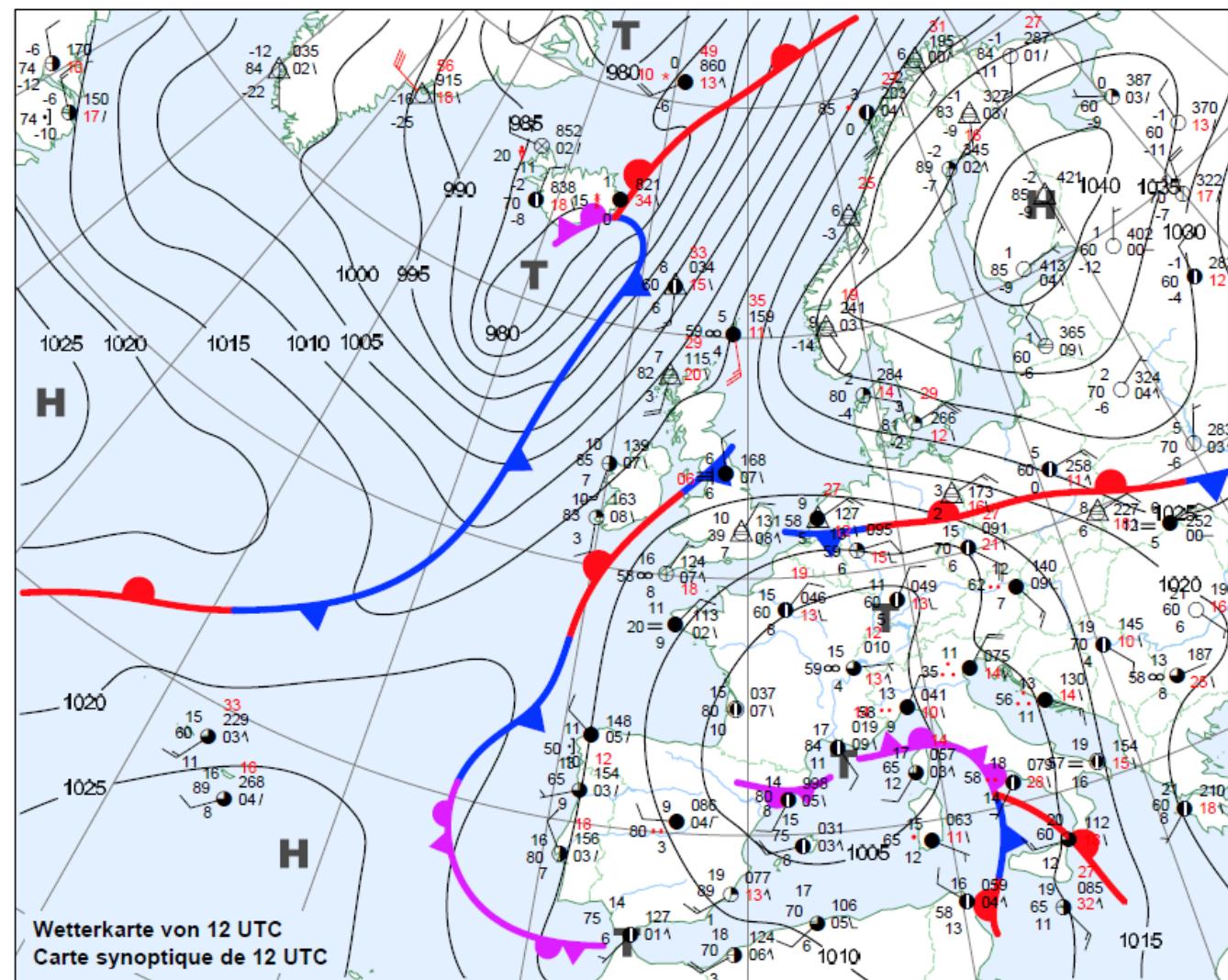
Wetterübersicht vom Mittwoch

Résumé météorologique du Mercredi

16.3.2011

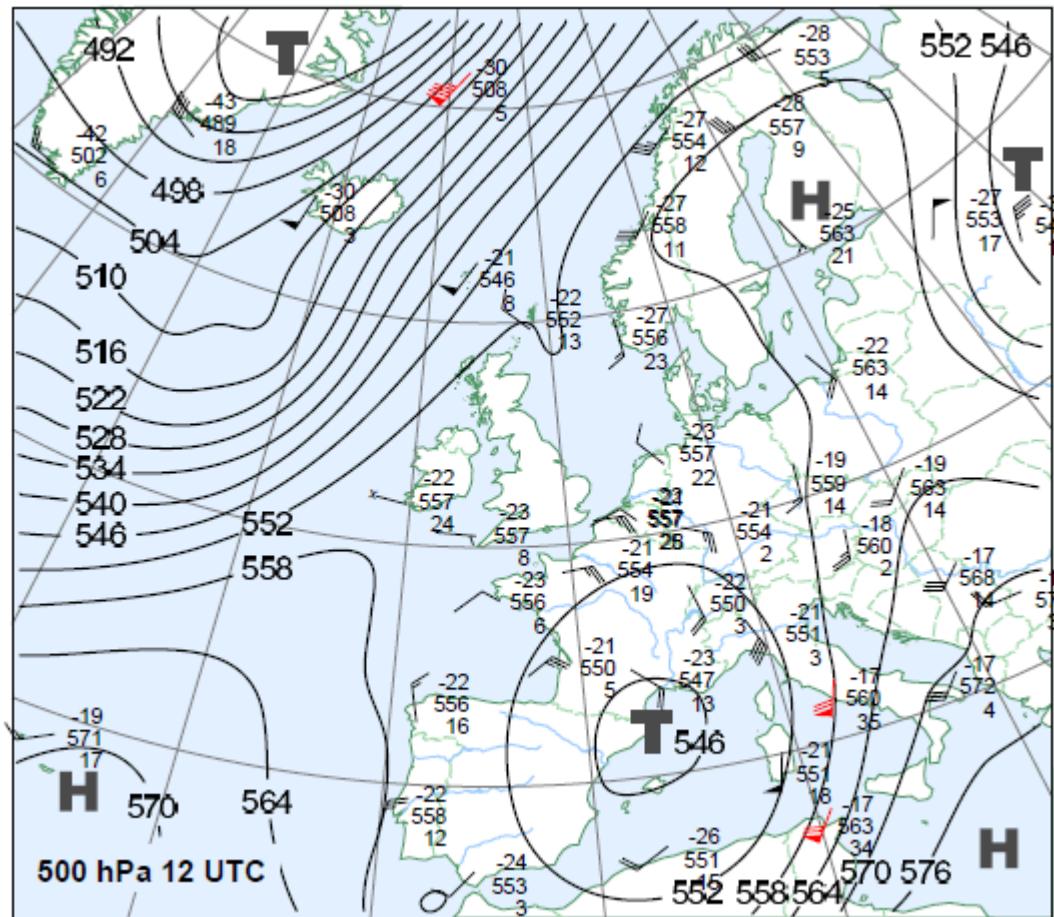
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15-16.3 depressione sul Golfo di Genova

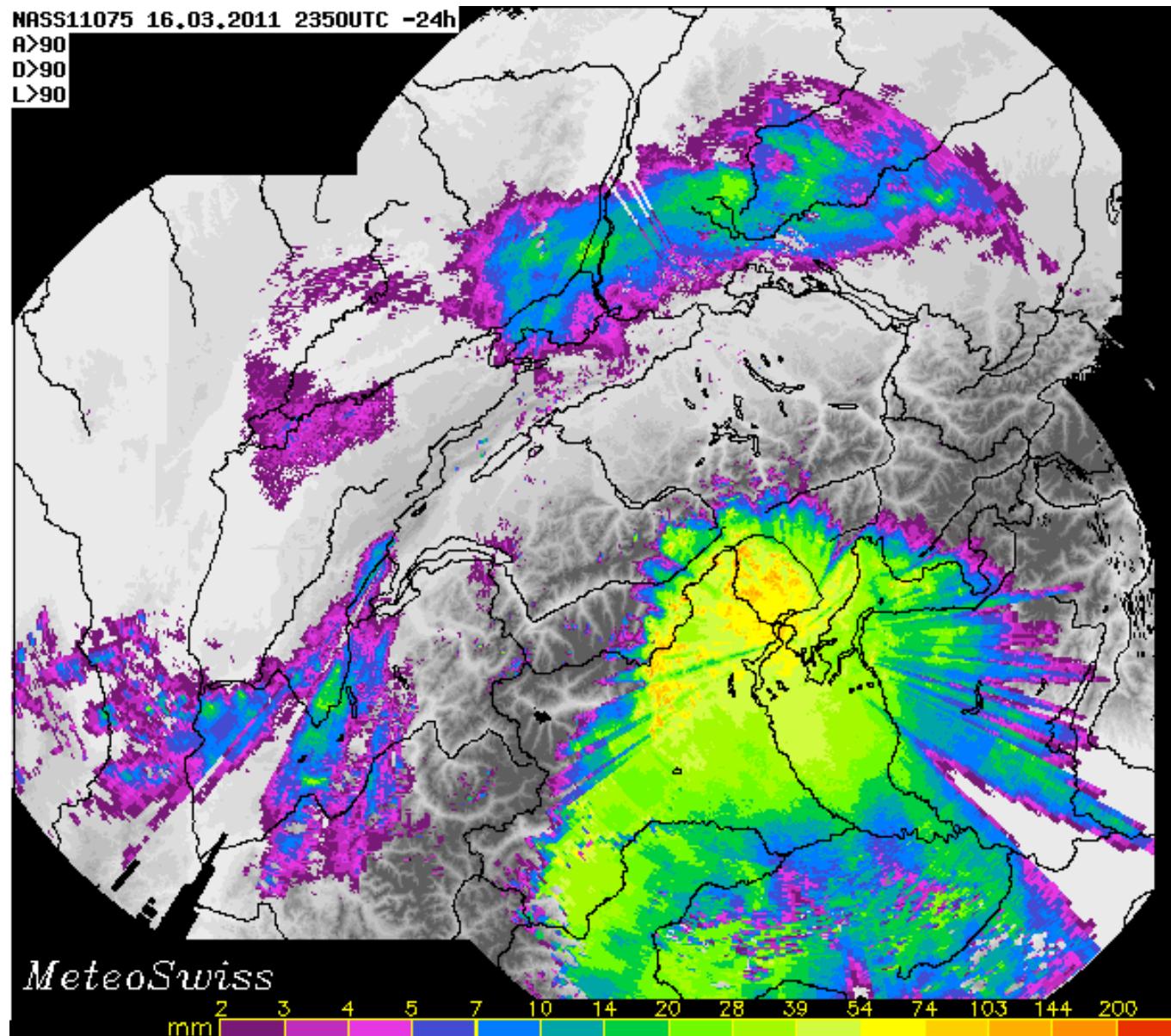




Radar

NASS11075 16.03.2011 2350UTC -24h

A>90
D>90
L>90

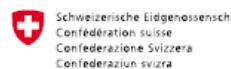




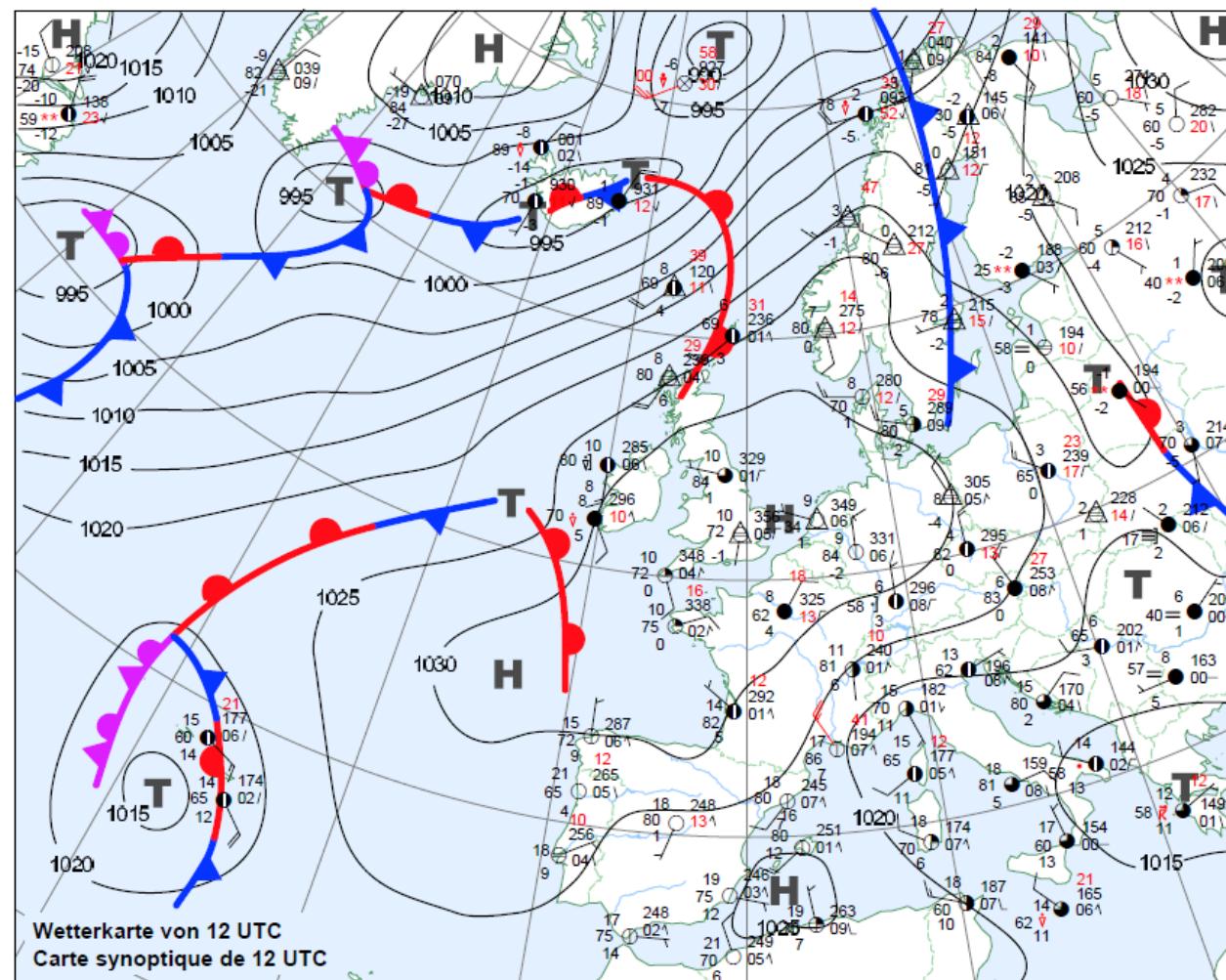
19.3.2011: i primi temporali

Wetterübersicht vom Samstag

19.3.2011

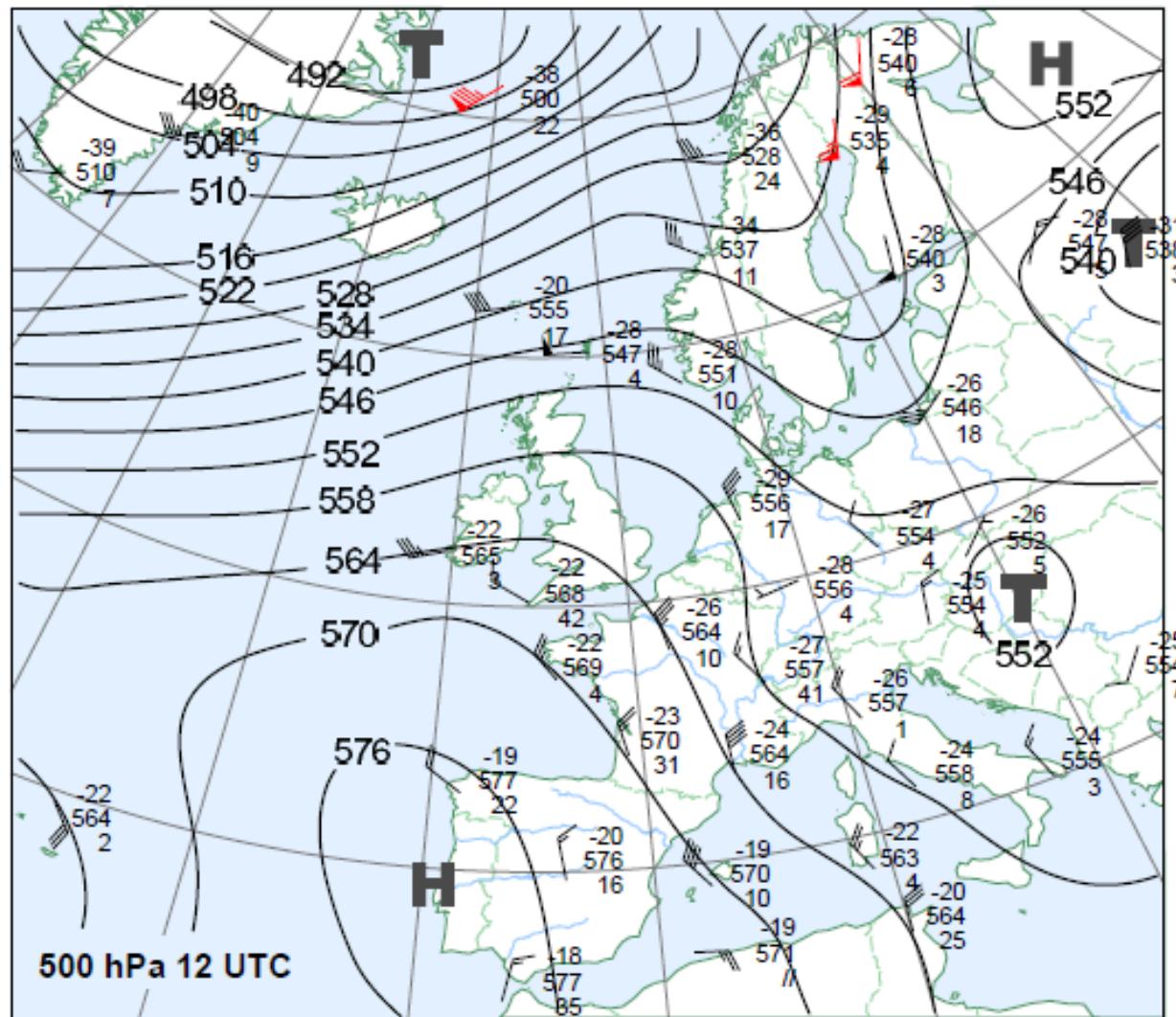


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19.3.2011: i primi temporali





Dal satellite

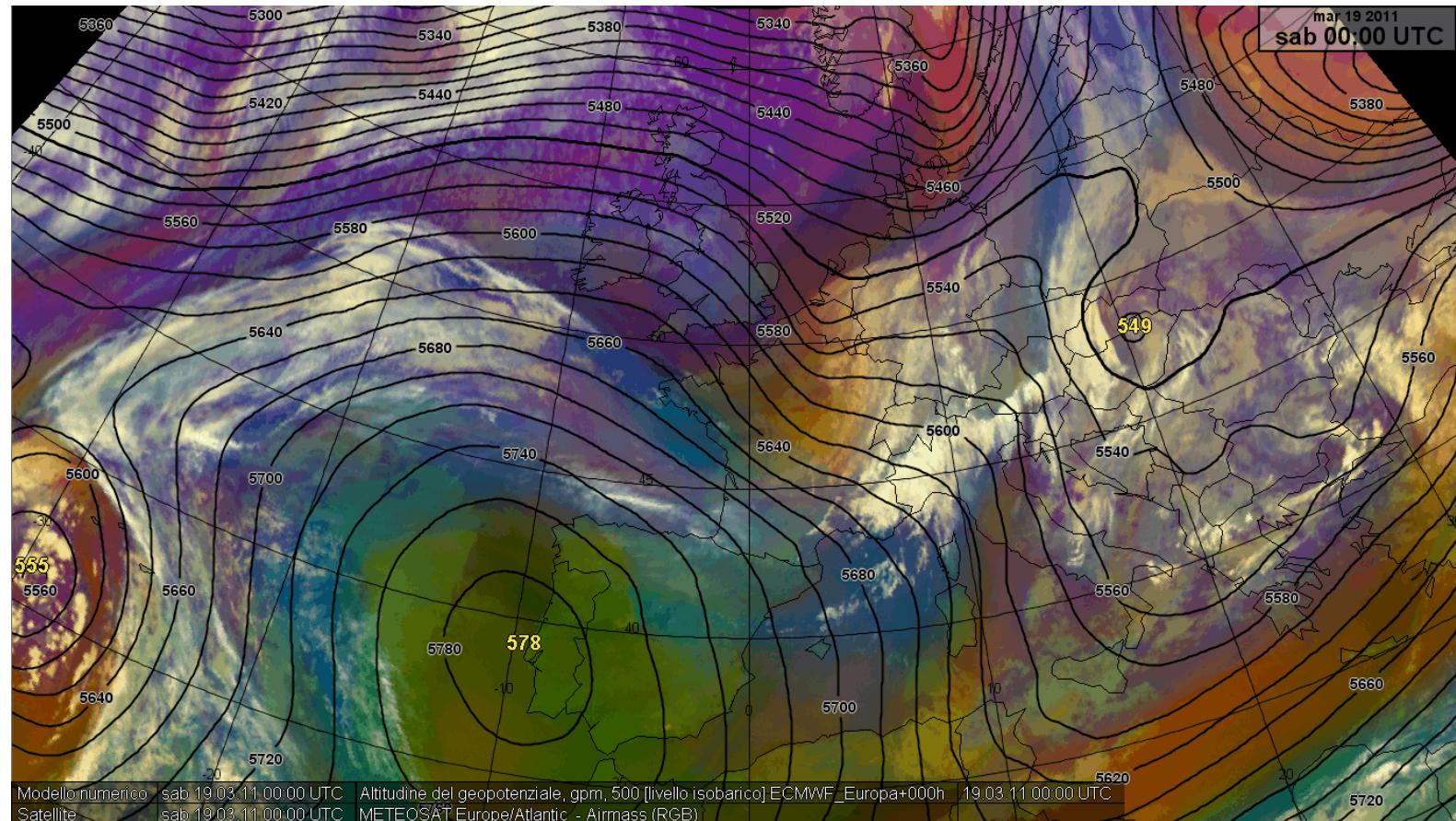
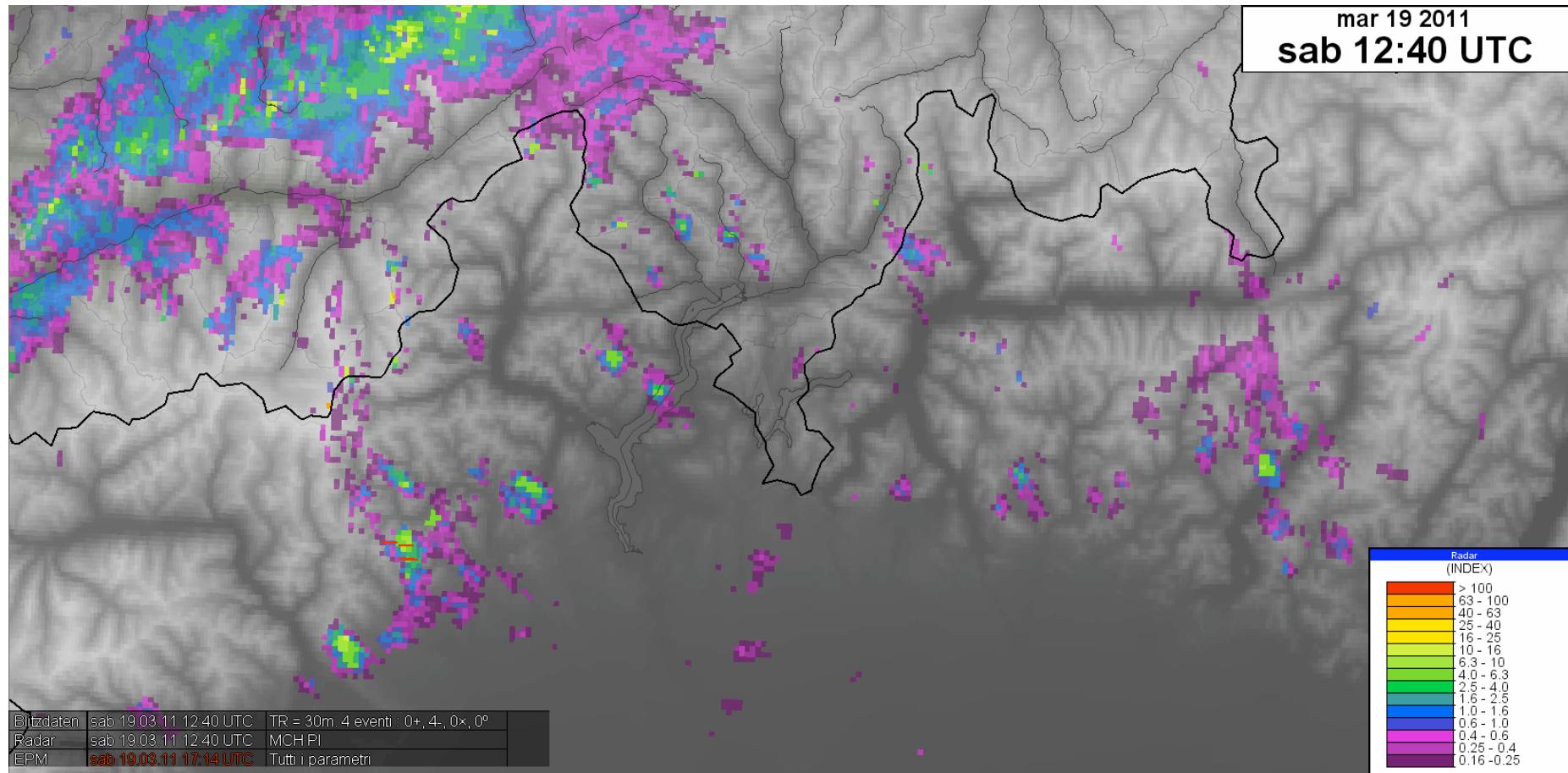




Immagine radar con fulmini



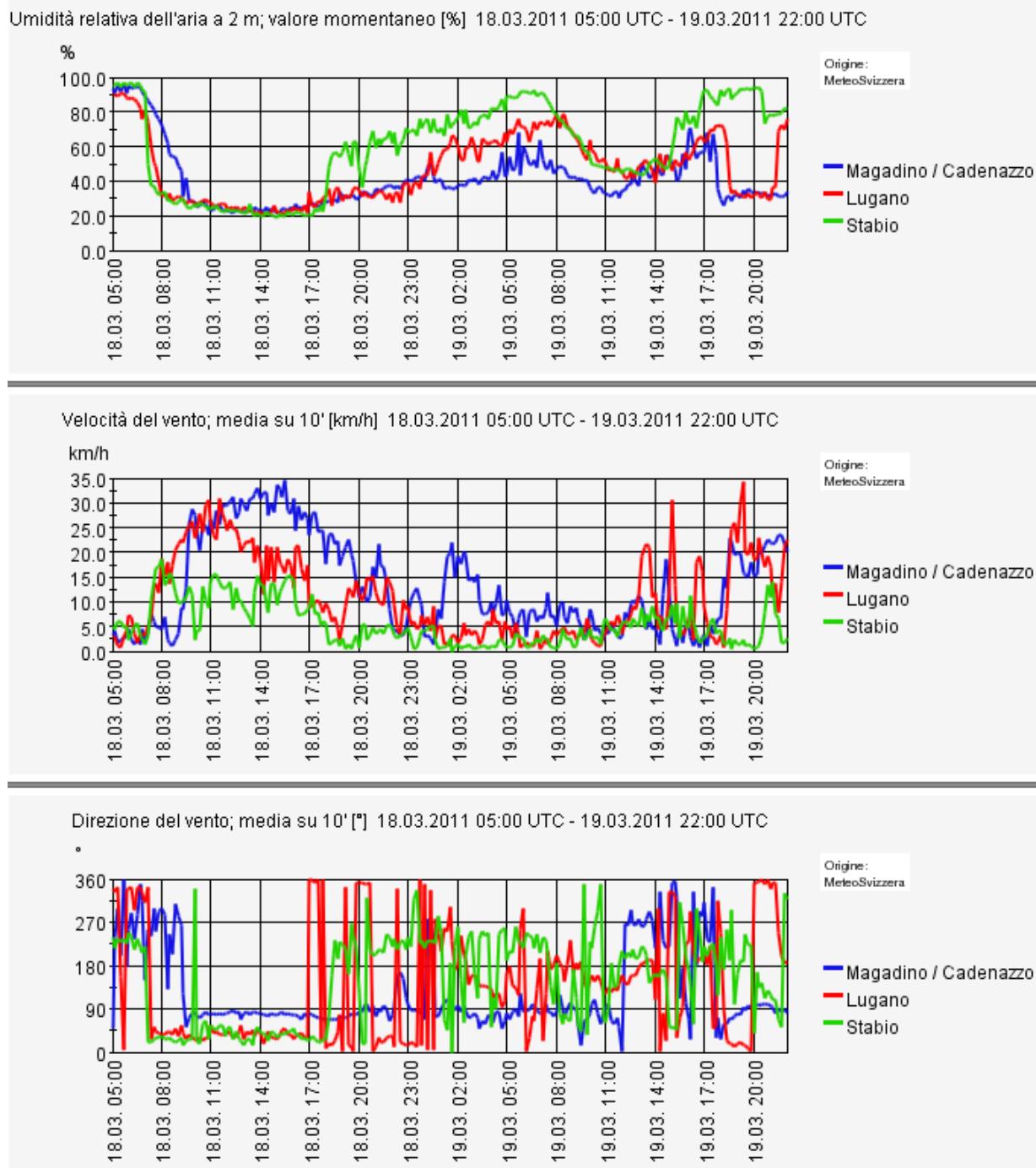


Dalla webcam

2011-03-19 14:20 UTC



Valori al suolo





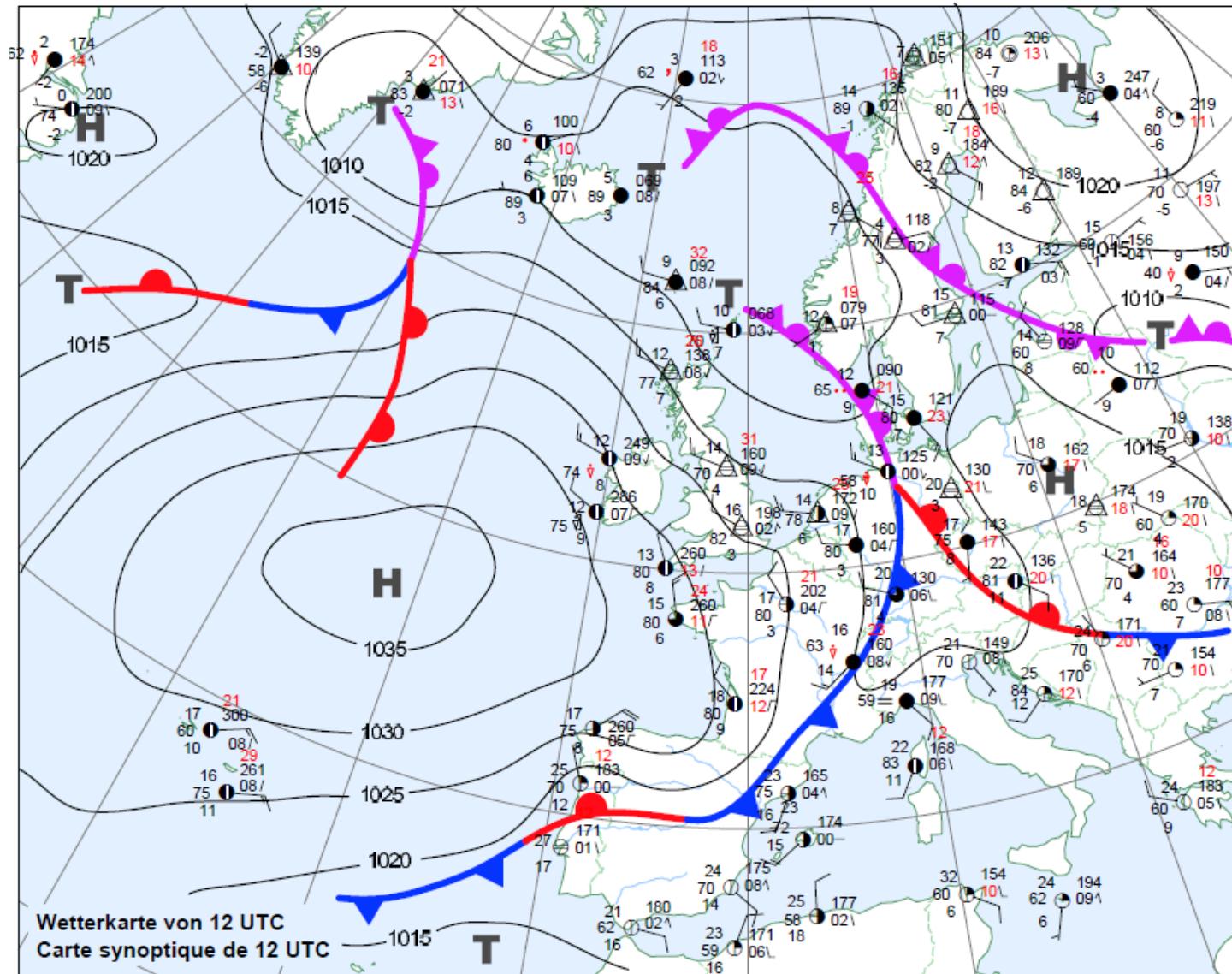
14-15 maggio 2011: passaggio

f Wetterübersicht vom Samstag
Résumé météorologique du Samedi

14.5.2011

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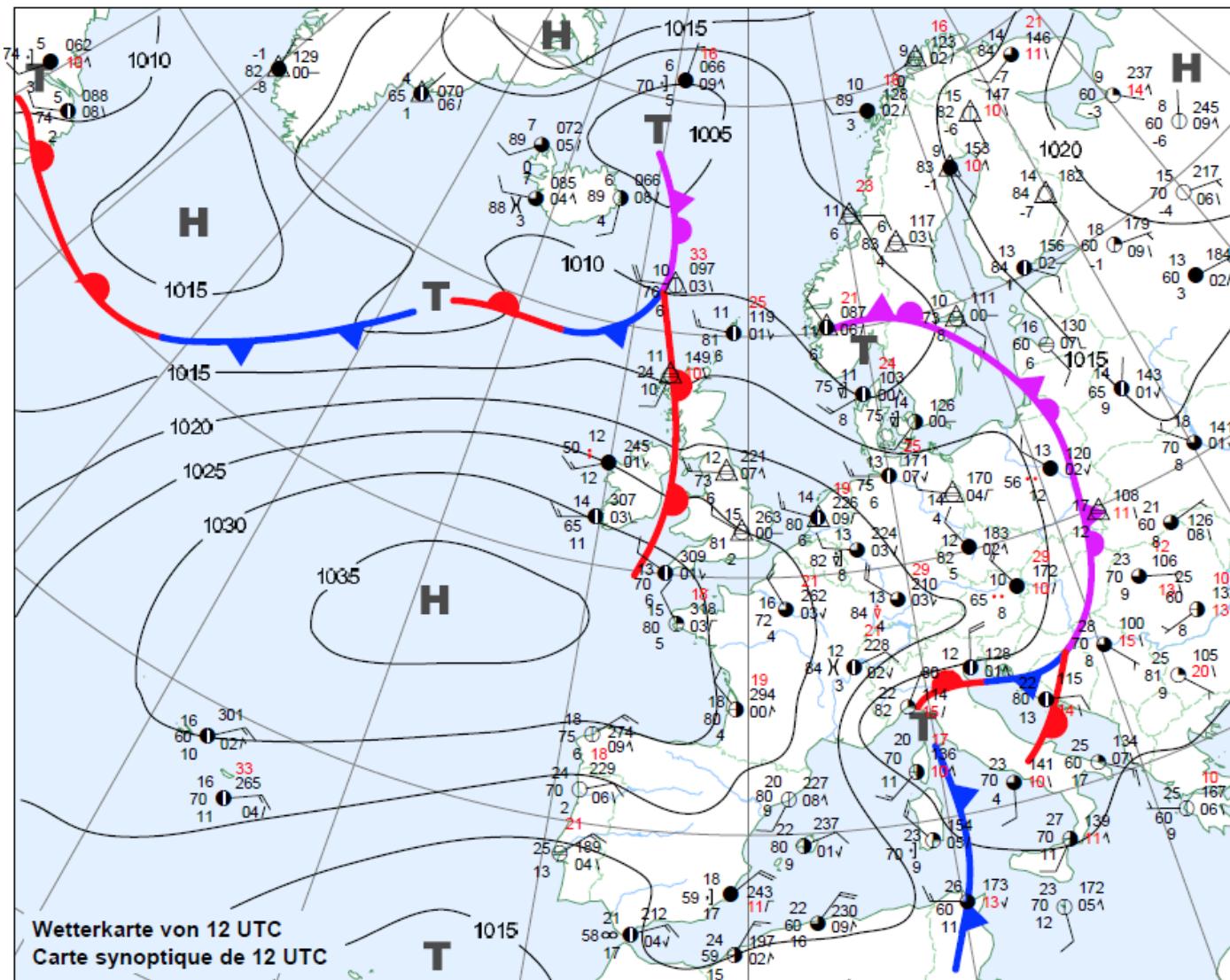
14-15 maggio 2011: passaggio

f Wetterübersicht vom Sonntag
Résumé météorologique du Dimanche

15.5.2011

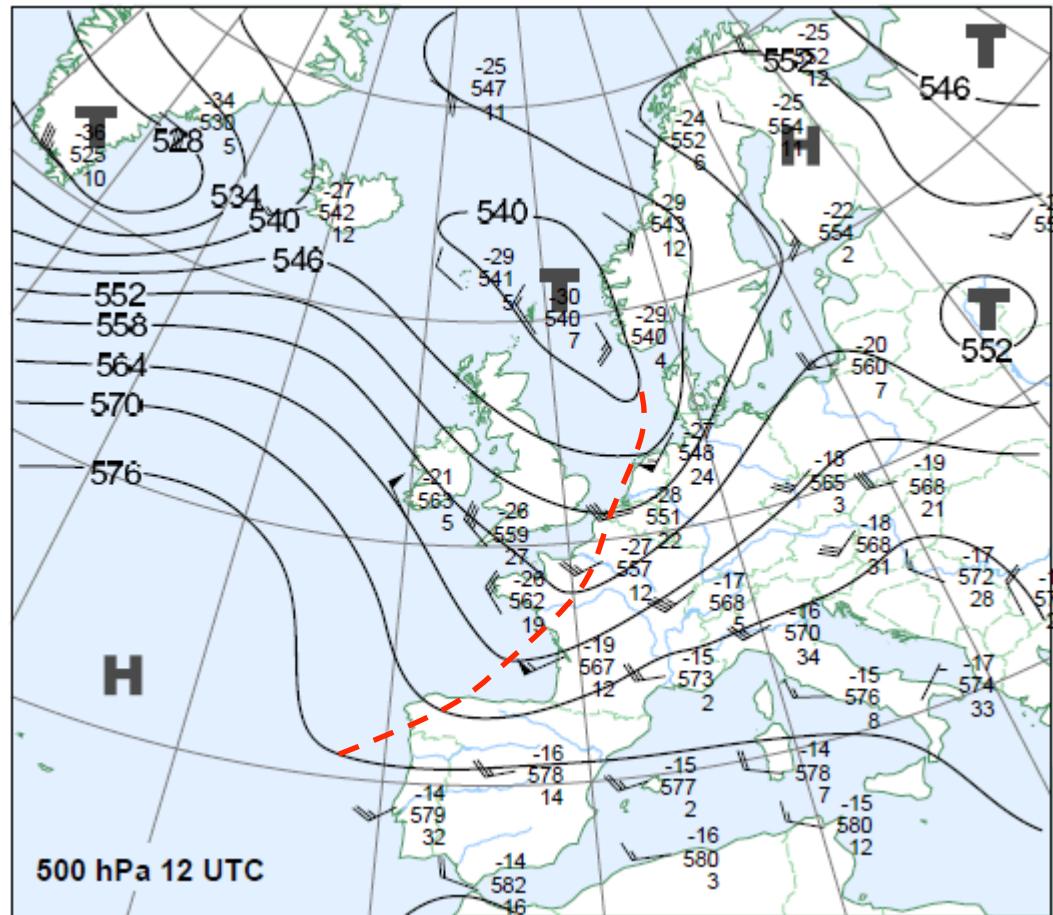
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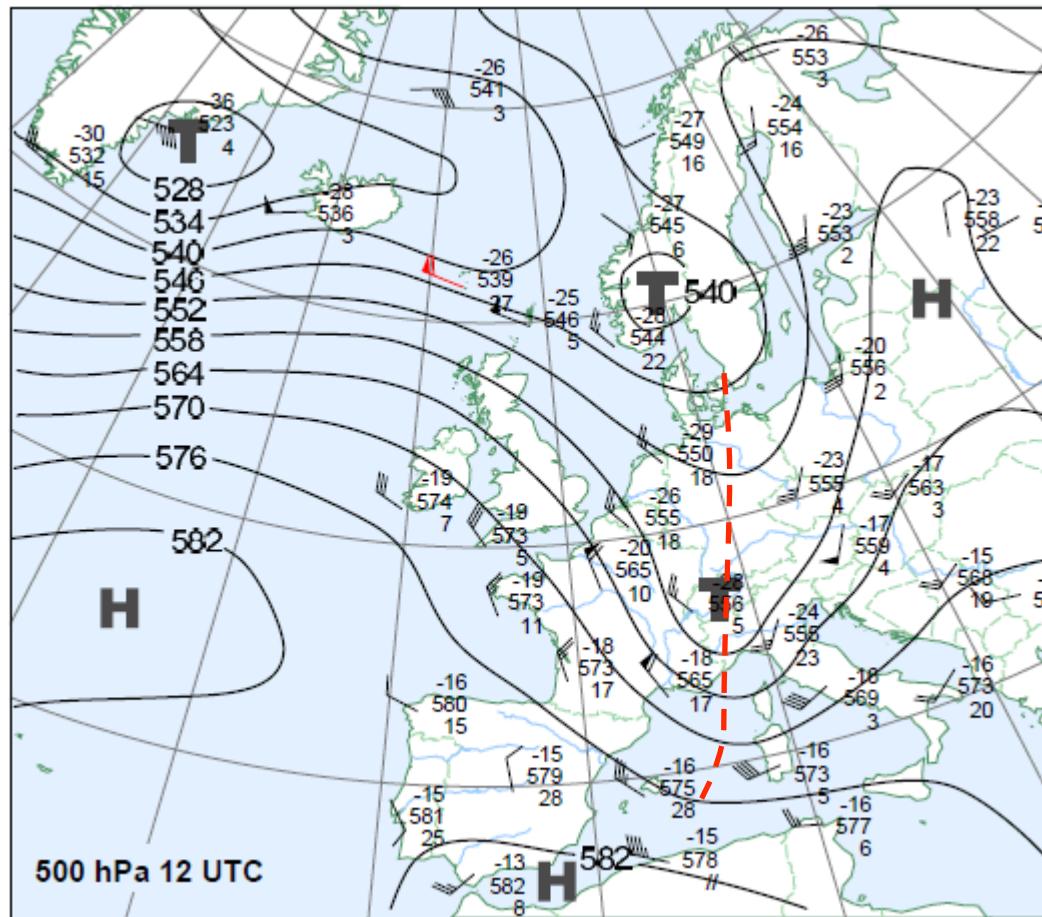


Z@500hPa: 14.5.2011



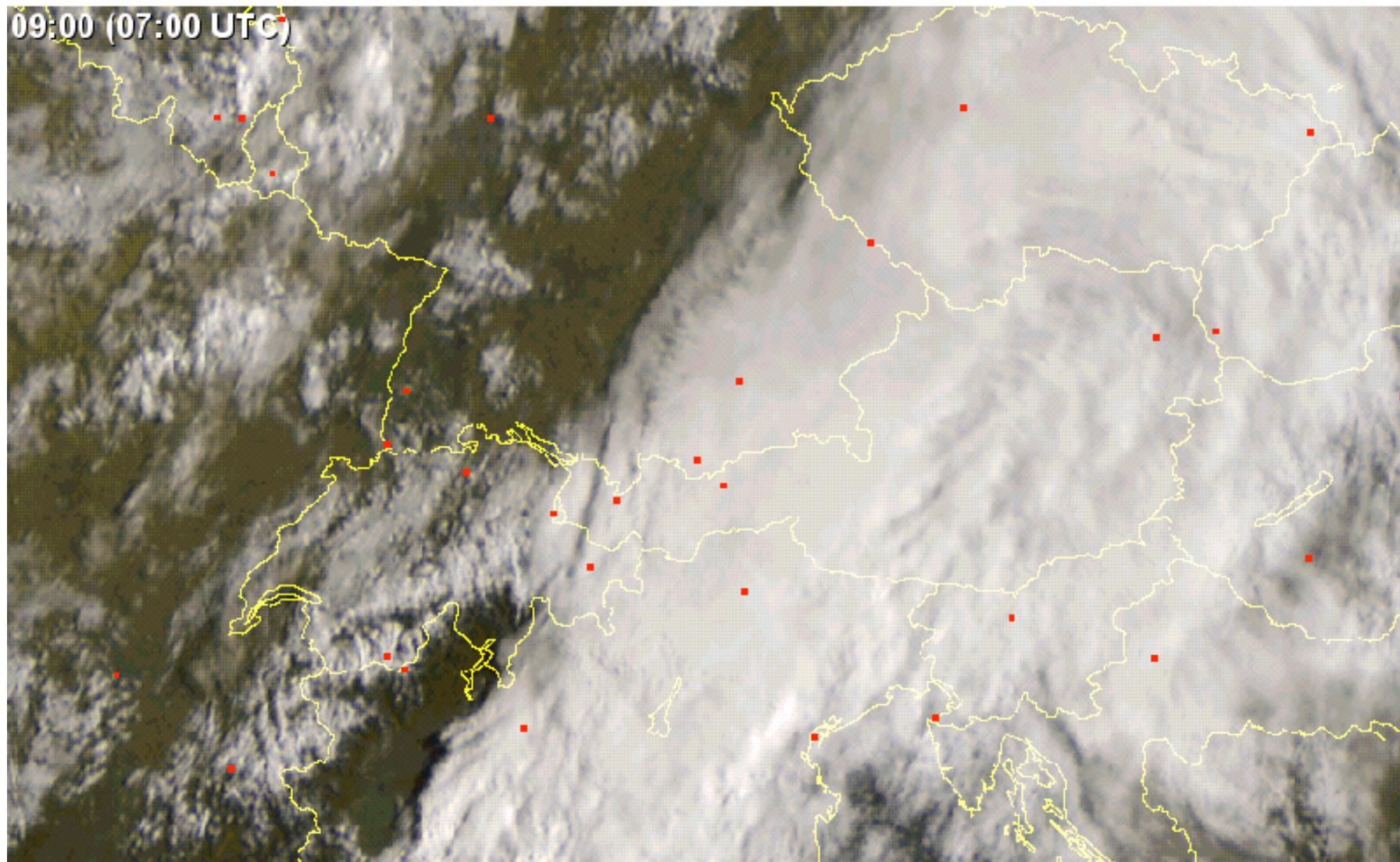


Z@500hPa: 15.5.2011





15 maggio 2011: passaggio frontale





Foto



Foto: Mauro Guerini



Foto

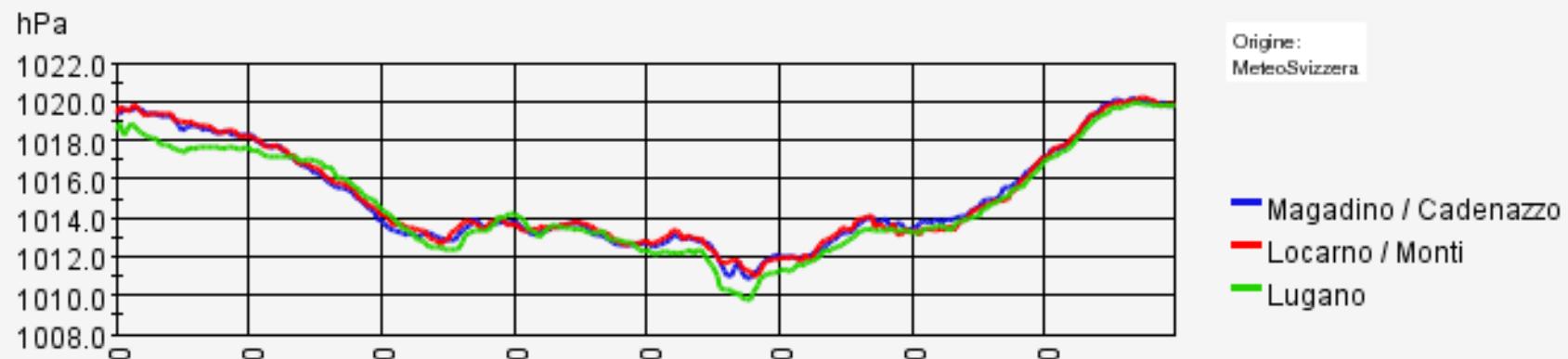


Foto: Mauro Guerini

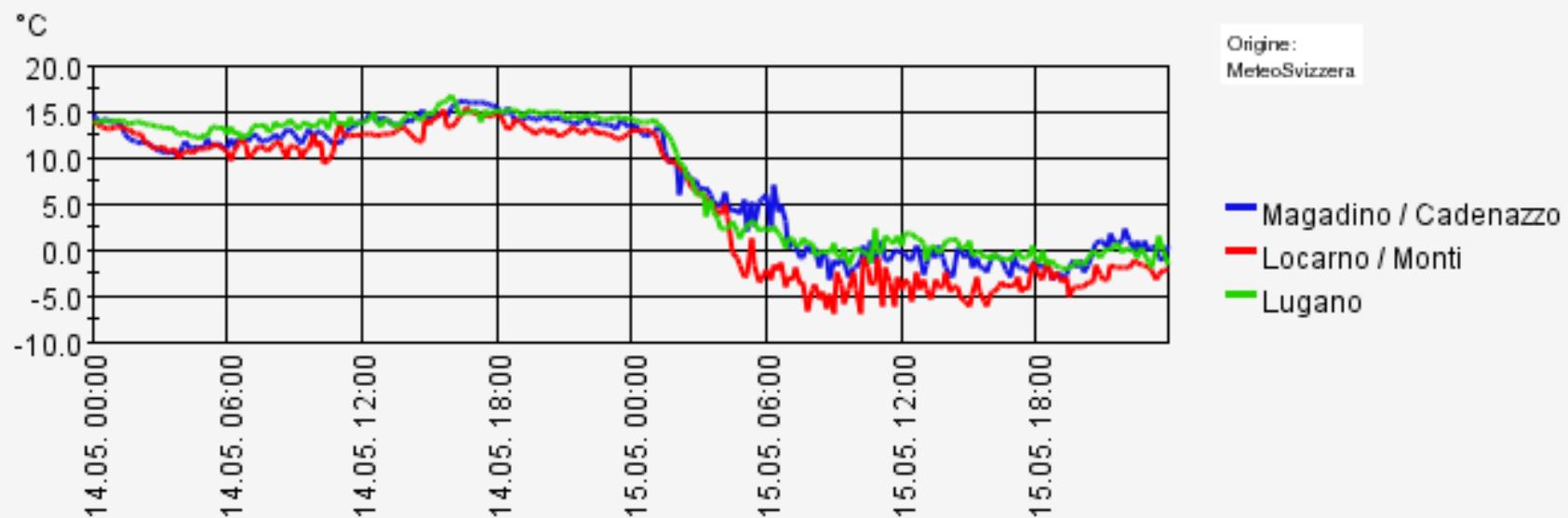


Pressione e punto di rugiada

Pressione ridotta al livello del mare (QFF); valore momentaneo [hPa] 14.05.2011 00:00 UTC - 15.05.2011 23:50 UTC

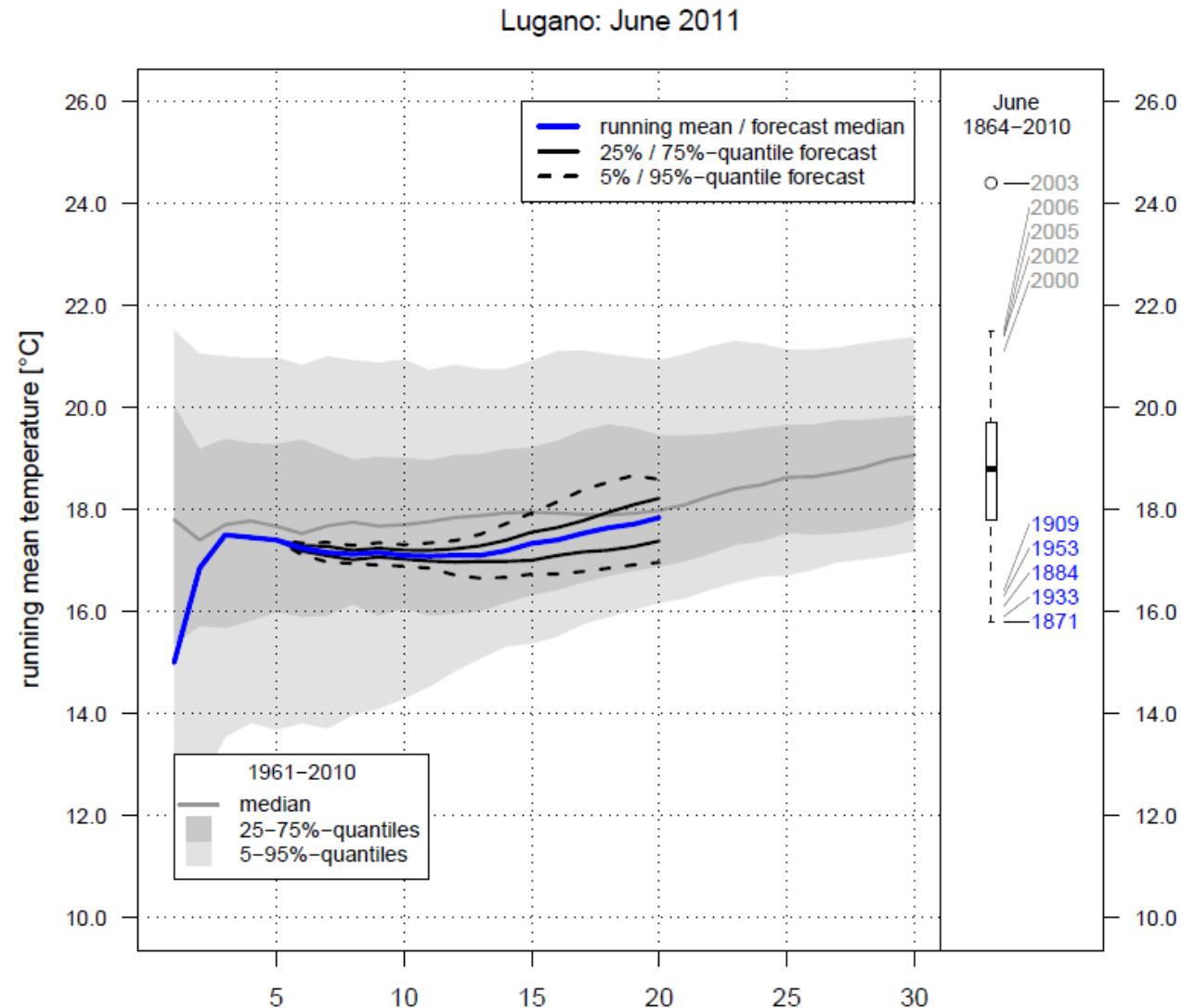


Punto di rugiada a 2 m; valore momentaneo [°C] 14.05.2011 00:00 UTC - 15.05.2011 23:50 UTC



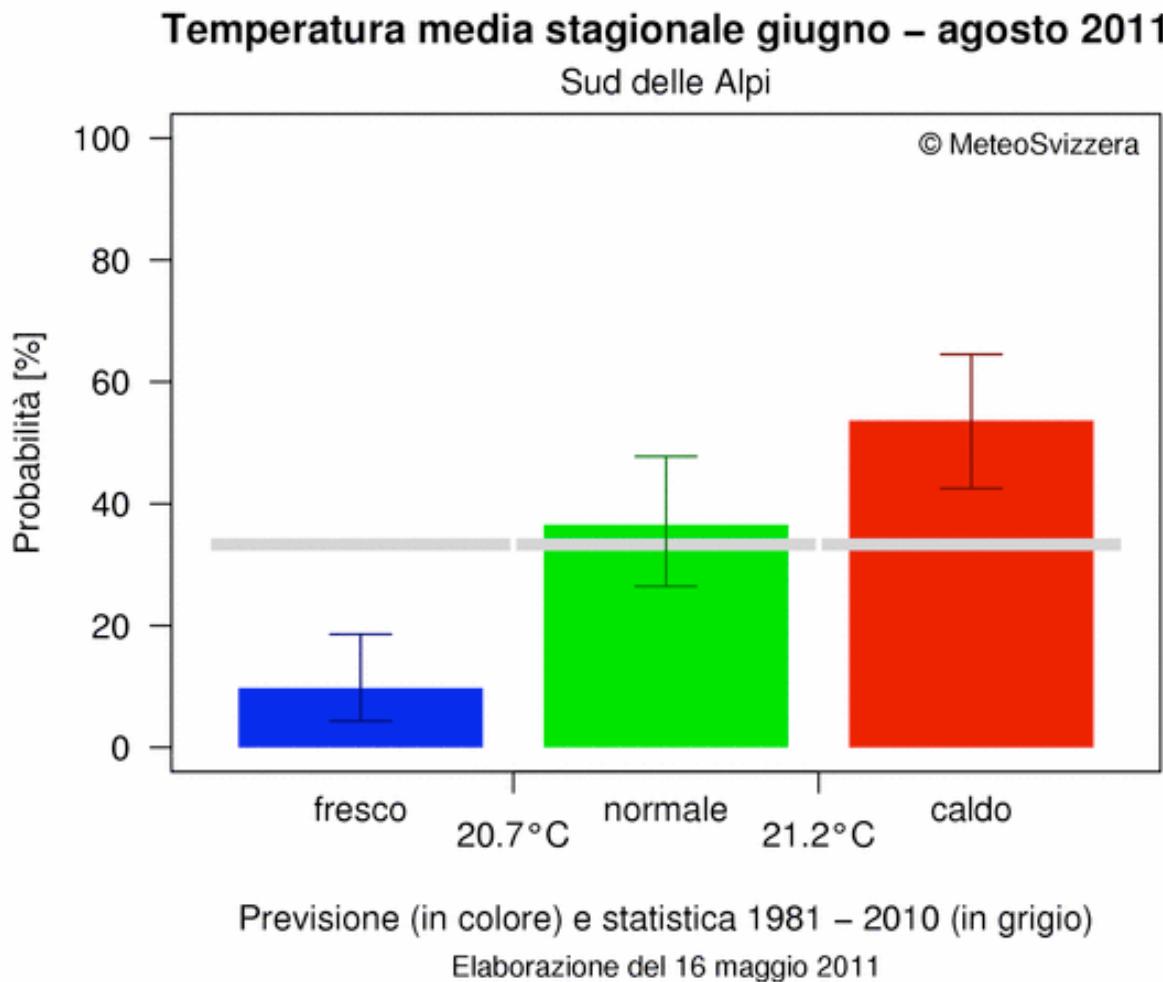


La previsione per i prossimi 10 giorni?



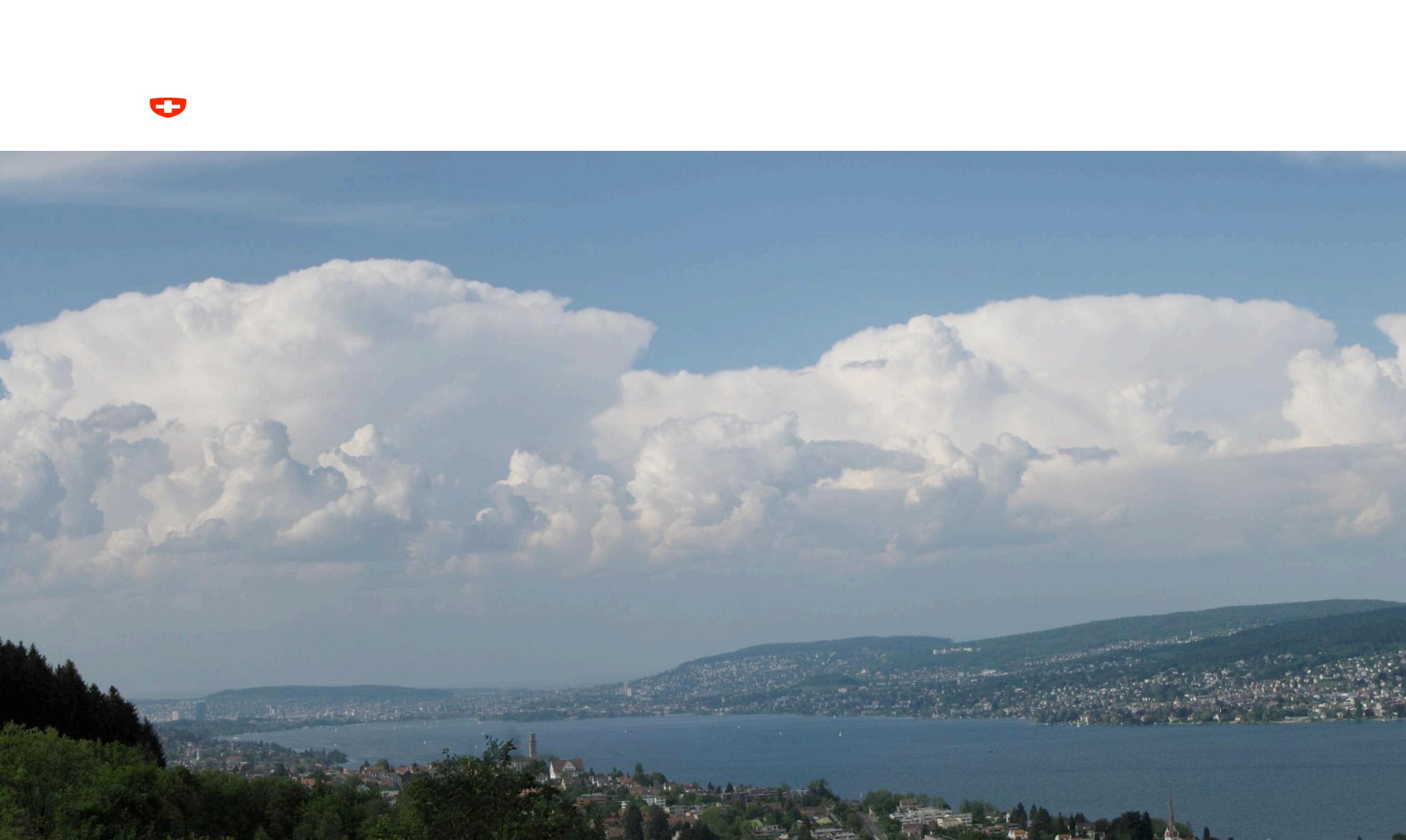


La previsione per l'estate?





Stratus e Altocumulus (S. Zanini)



Cumulonimbus incus (D. Gerstgrasser)



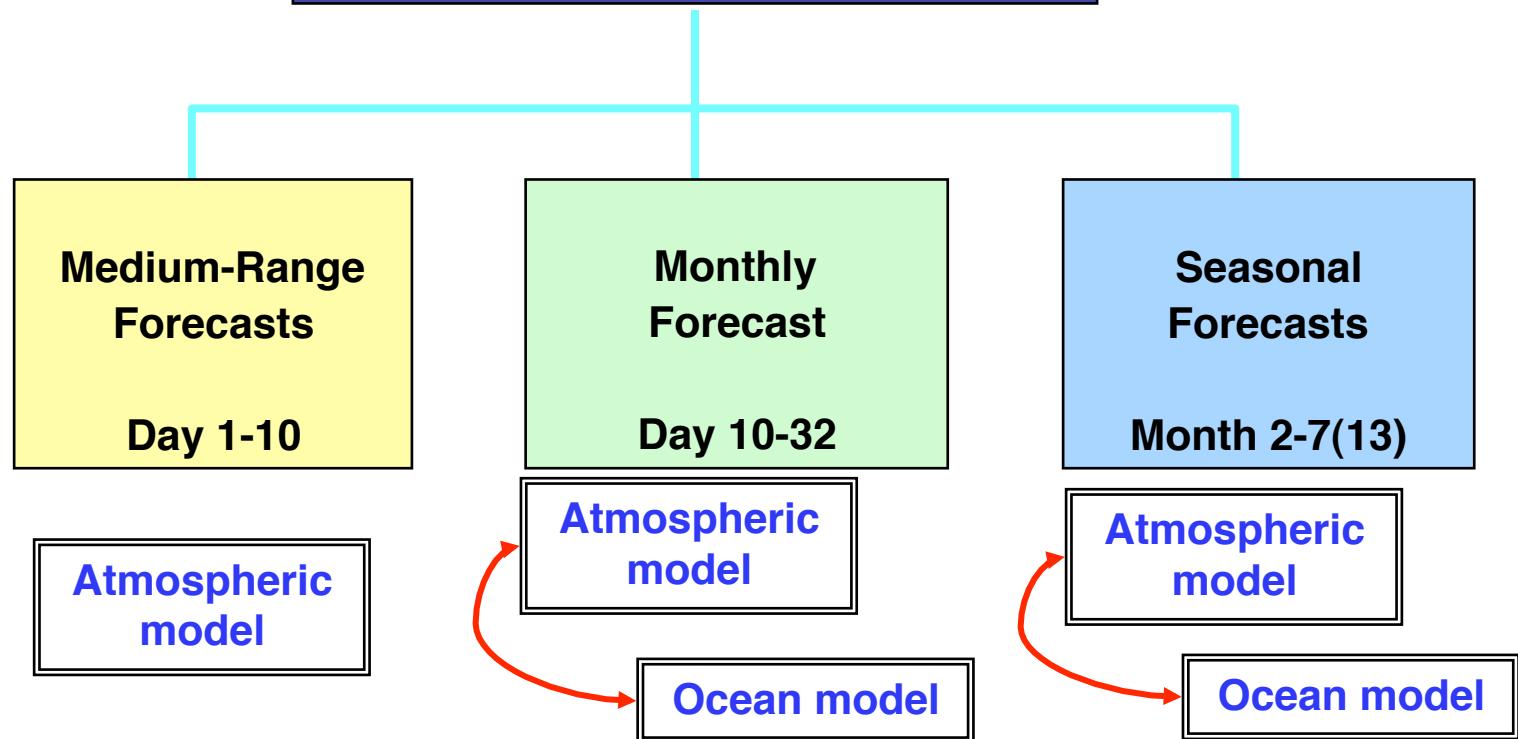
Altocumulus Castellanus (S. Zanini)

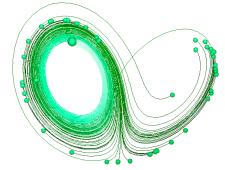


Forecasting at ECMWF

Product
Tool

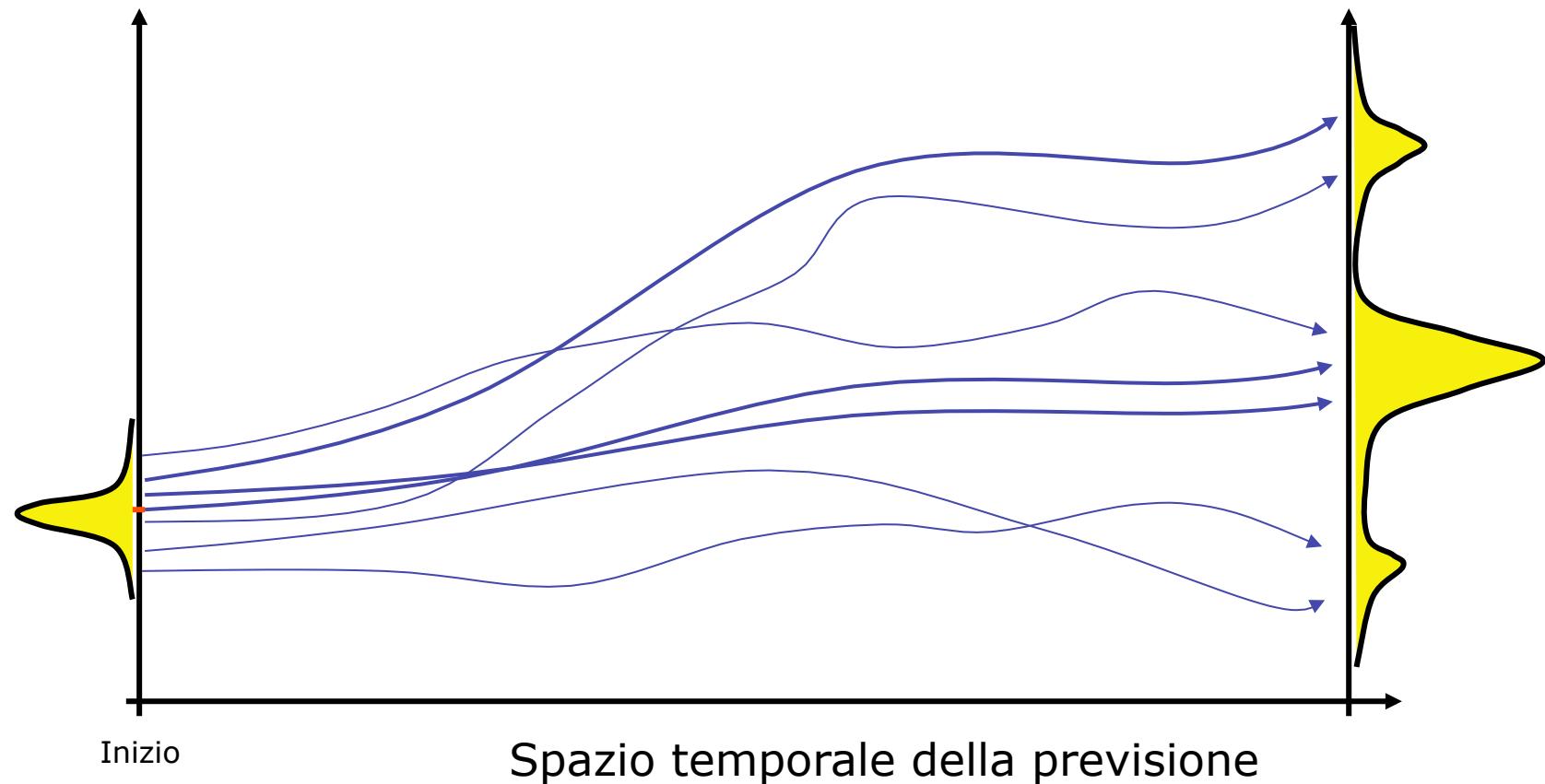
ECMWF: Weather and Climate Dynamical Forecasts



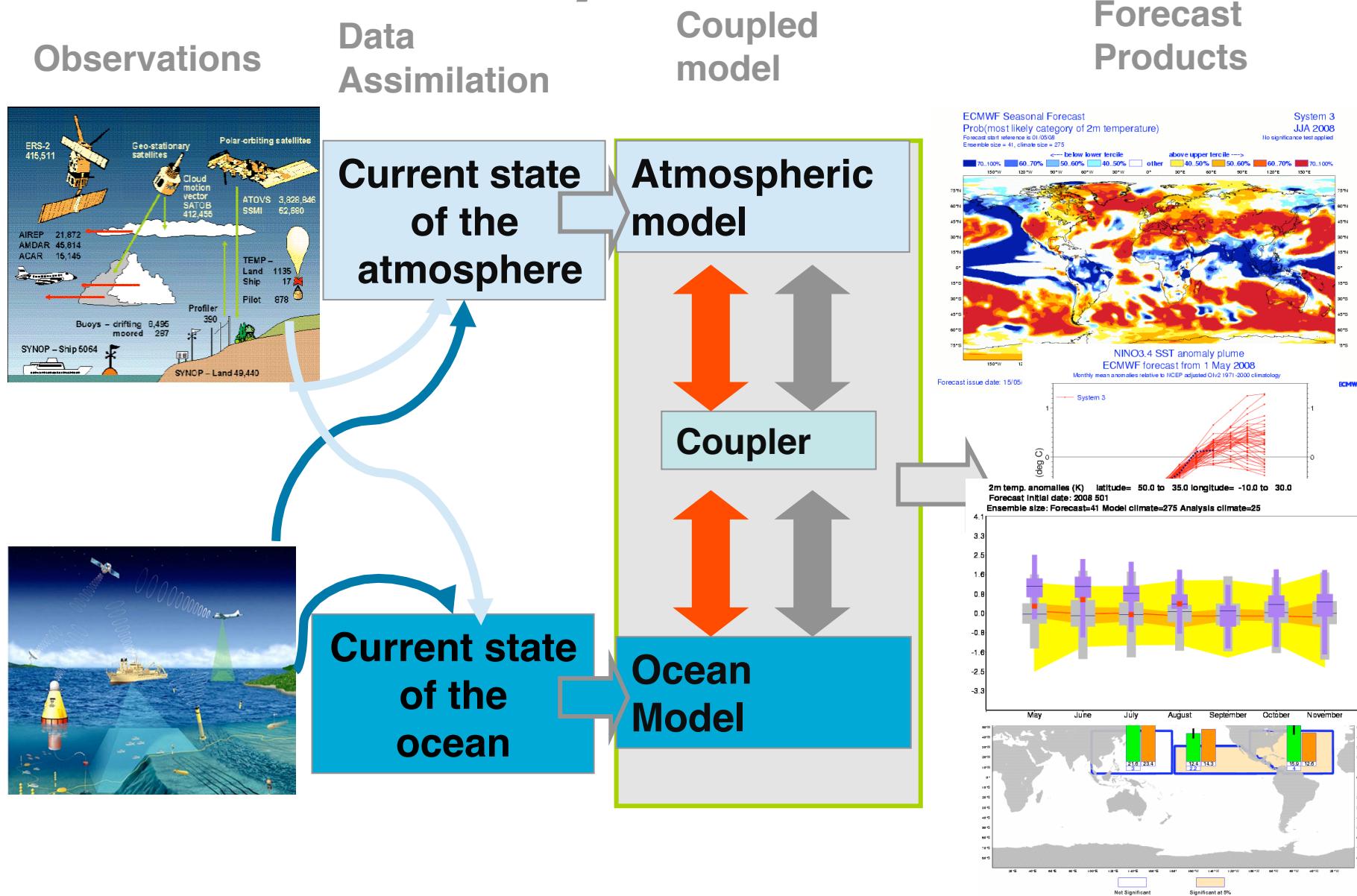


Incertezza della previsione

Il sistema meteorologico è caotico → piccole perturbazioni crescono velocemente (effetto farfalla):



ECMWF Monthly/Seasonal Forecasting System





La previsione per i prossimo mese?

