Schweizerische Eidgenossenschaft
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Ufficio federale di meteorologia e climatologia MeteoSvizzera

Autunno 2011

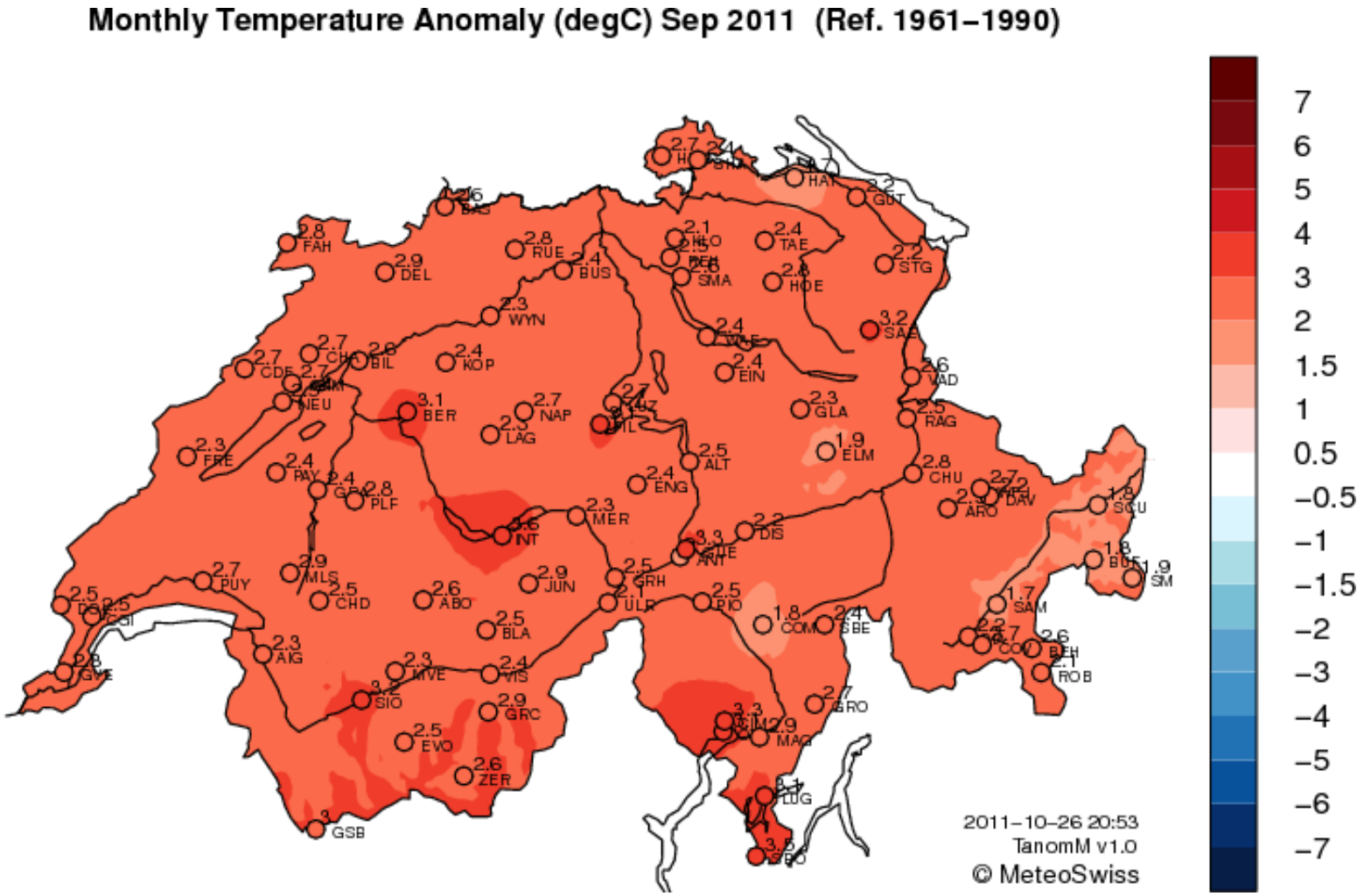
Retrospettiva meteoclimatica

Matteo Buzzi (Luca Silvanti, Stefano Zanini)

Panoramica

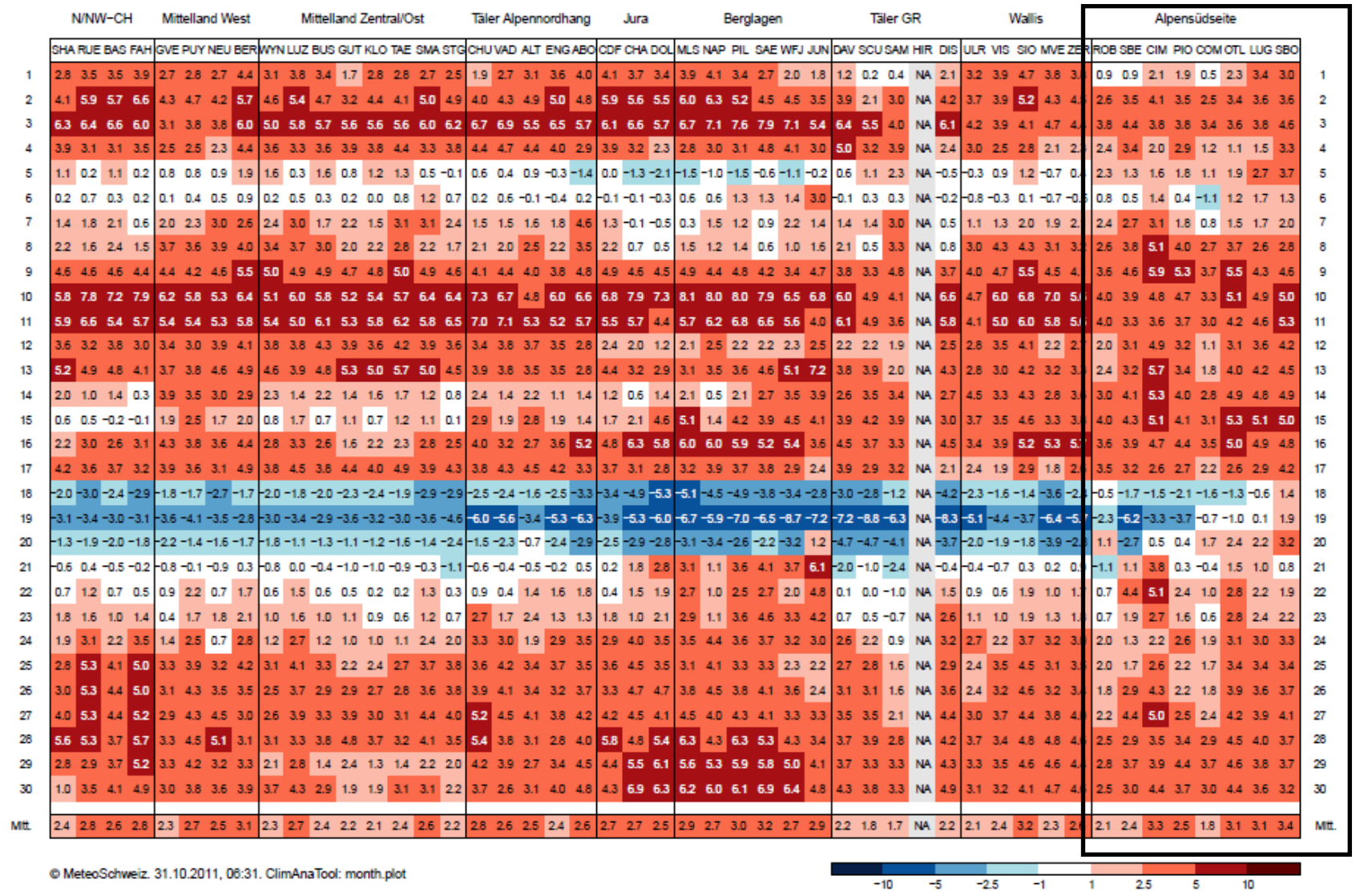
- Andamento rispetto ai valori normali 1961-1990, cnfronto con le anomalie globali
  - Temperatura
  - Precipitazioni
  - Soleggiamento
- Situazioni meteorologiche preponderanti
  - Distribuzione dell ‘autunno 2011
  - Alcuni casi interessanti

Temperatura: settembre 2011

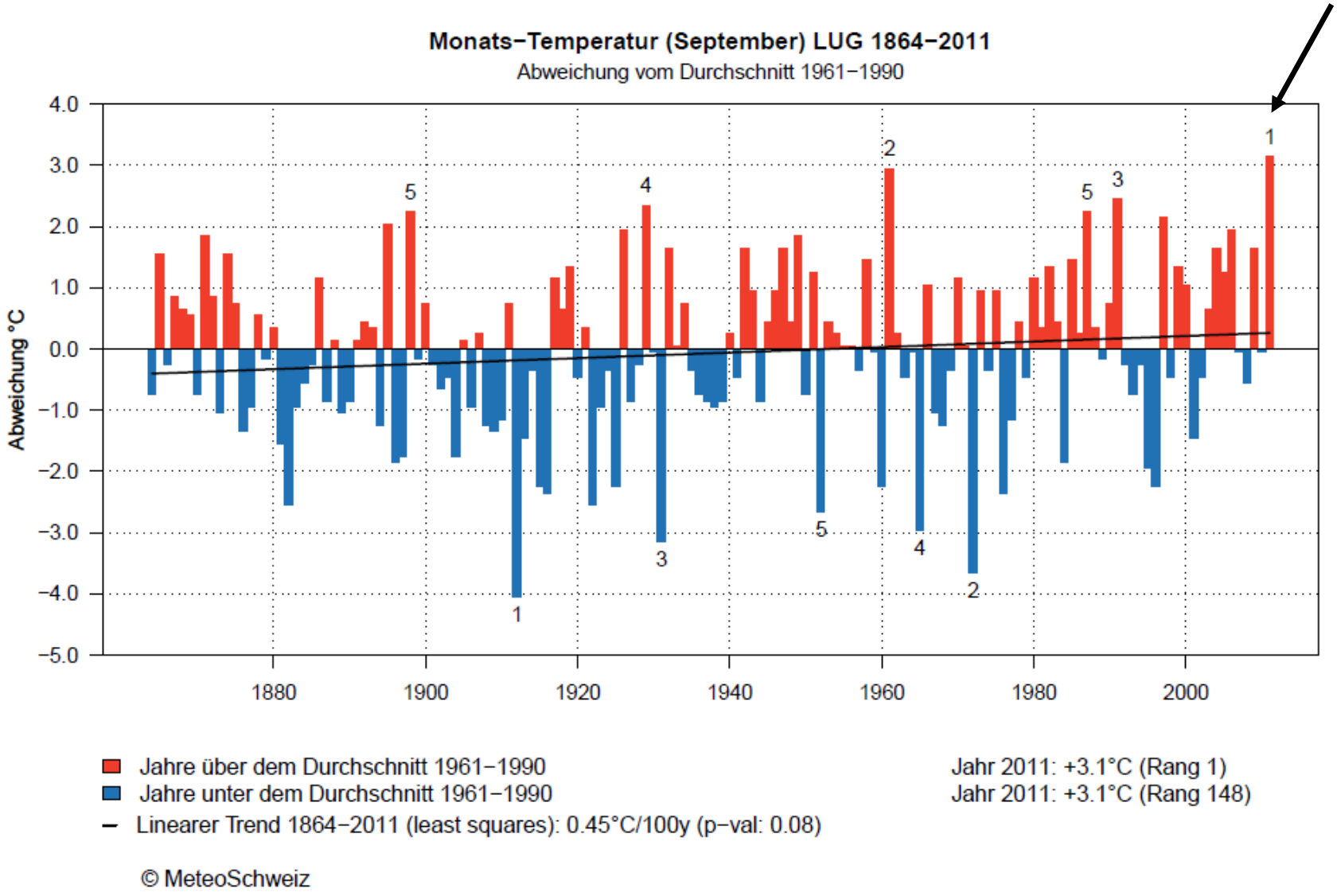


Temperatura: settembre 2011

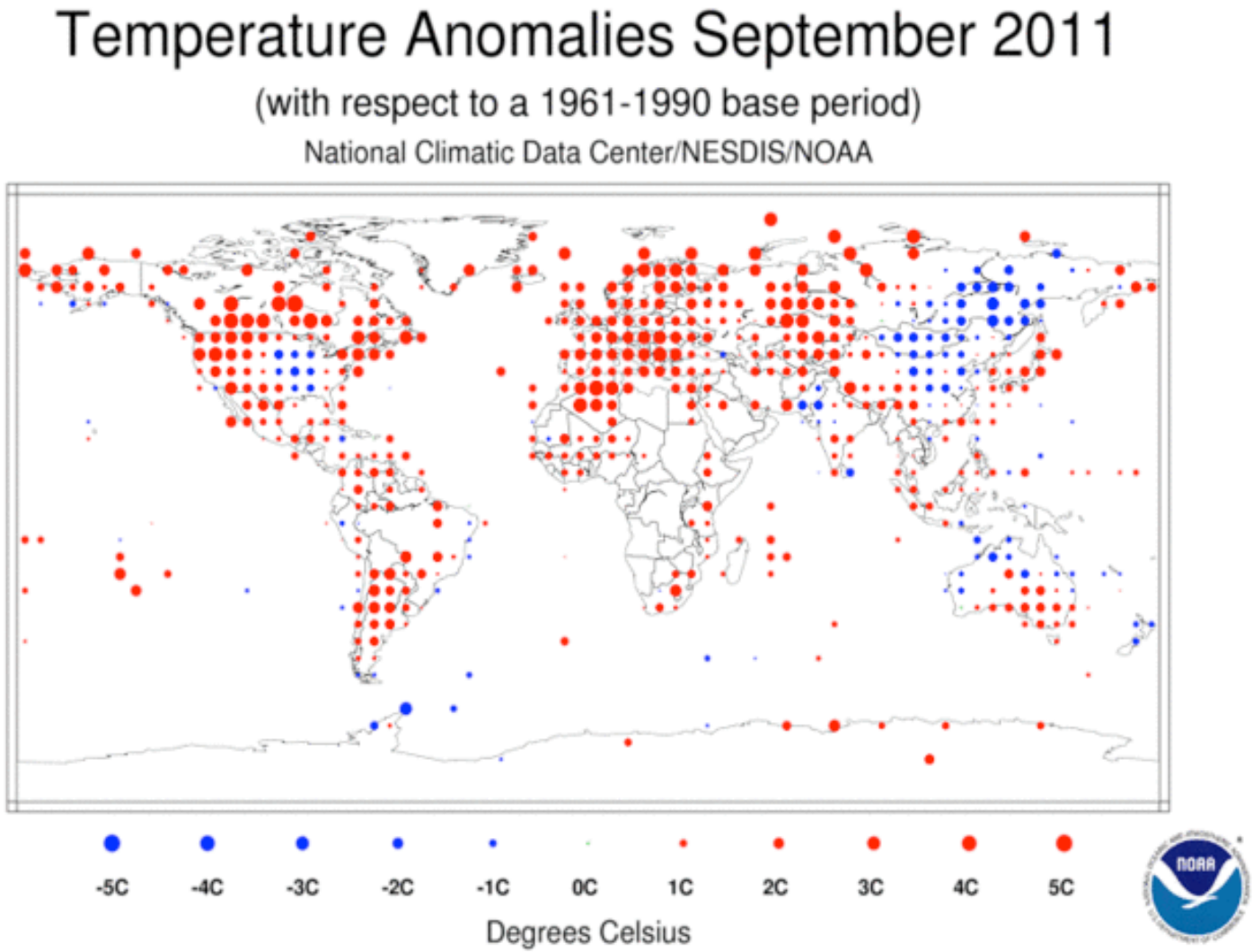
Abweichung vom Temperaturmittel (degC) **September 2011** Referenzperiode: 1961 – 1990



Temperatura: settembre 2011 e gli altri



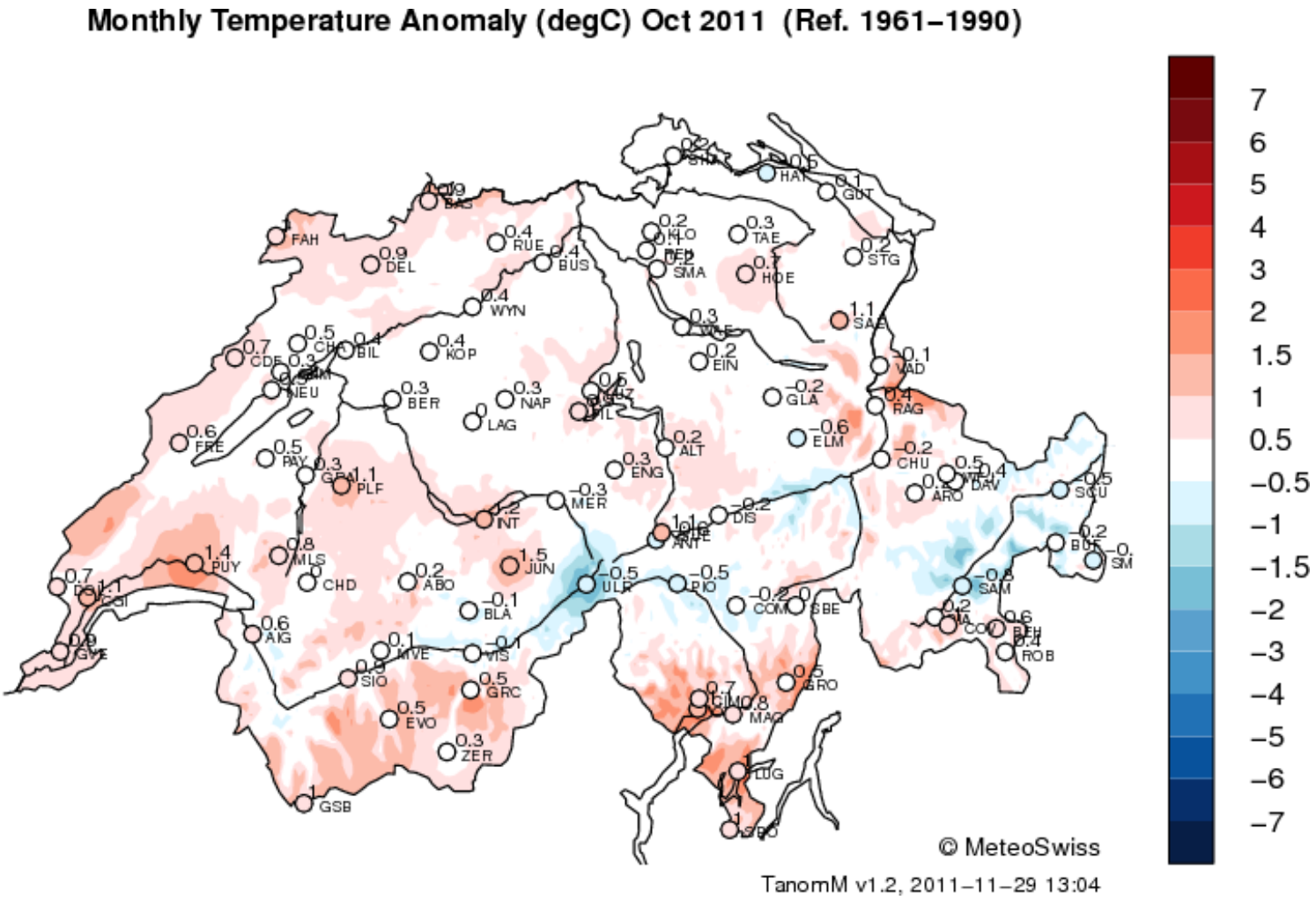
Temperatura: anomalie globali settembre 2011



Temperatura: anomalie globali settembre 2011

September	Anomaly		Rank (out of 132 years)	Records		
	°C	°F		Year(s)	°C	°F
Global						
Land	+0.87 ± 0.24	+1.57 ± 0.43	4th Warmest	Warmest: 2005	+1.00	+1.80
			129th Coolest	Coolest: 1912	-0.78	-1.40
Ocean	+0.40 ± 0.04	+0.72 ± 0.07	14th Warmest	Warmest: 2003	+0.57	+1.03
			119th Coolest	Coolest: 1912	-0.45	-0.81
Land and Ocean	+0.53 ± 0.11	+0.95 ± 0.20	8th Warmest	Warmest: 2005	+0.66	+1.19
			125th Coolest	Coolest: 1912	-0.54	-0.97
Northern Hemisphere						
Land	+0.88 ± 0.25	+1.58 ± 0.45	3rd Warmest	Warmest: 2005	+1.16	+2.09
			130th Coolest	Coolest: 1912	-0.91	-1.64
Ocean	+0.43 ± 0.04	+0.77 ± 0.07	13th Warmest	Warmest: 2003	+0.66	+1.19
			120th Coolest	Coolest: 1912	-0.56	-1.01
Land and Ocean	+0.60 ± 0.15	+1.08 ± 0.27	6th Warmest	Warmest: 2005	+0.82	+1.48
			127th Coolest	Coolest: 1912	-0.69	-1.24
Southern Hemisphere						
Land	+0.85 ± 0.15	+1.53 ± 0.27	3rd Warmest	Warmest: 1997	+1.07	+1.93
			130th Coolest	Coolest: 1894	-0.81	-1.46
Ocean	+0.39 ± 0.04	+0.70 ± 0.07	14th Warmest	Warmest: 1997	+0.57	+1.03
			119th Coolest	Coolest: 1911	-0.51	-0.92
Land and Ocean	+0.46 ± 0.07	+0.83 ± 0.13	9th Warmest	Warmest: 1997	+0.65	+1.17
			124th Coolest	Coolest: 1911	-0.54	-0.97
	Ties: 2000, 2001, 2004					

Temperatura: ottobre 2011



Temperatura: ottobre 2011

Abweichung vom Temperaturmittel (degC) **Oktober 2011** Referenzperiode: 1961 – 1990

	N/NW-CH				Mittelland West				Mittelland Zentral/Ost								Täler Alpennordhang					Jura			Berglagen						Täler GR				Wallis				Alpensüdseite								
	SHA	RUE	BAS	FAH	GVE	PUY	NEU	BER	WYN	LUZ	BUS	GUT	KLO	TAE	SMA	STG	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	SBE	CIM	PIO	COM	OTL	LUG	SBO
1	1.4	4.1	4.1	5.5	2.9	4.2	2.4	3.0	2.9	3.4	2.9	2.2	2.2	2.7	3.1	3.0	3.8	2.4	2.3	4.2	4.8	3.7	7.1	6.4	6.6	6.0	7.0	7.6	6.9	7.8	5.0	4.7	2.8	NA	5.1	3.3	3.1	4.3	4.8	5.0	2.9	3.4	6.0	3.3	2.9	4.9	4.4	4.3
2	2.4	4.7	4.4	5.7	3.1	4.2	2.7	3.2	3.2	3.3	3.1	2.2	2.5	2.6	3.2	3.8	3.5	3.0	2.6	4.3	4.9	3.8	7.1	6.6	7.0	6.1	6.7	7.2	6.5	7.6	4.5	4.6	3.4	NA	4.7	3.3	3.1	4.8	4.6	5.0	3.4	5.0	6.5	3.6	3.4	5.3	4.6	4.4
3	3.3	5.7	4.8	5.4	3.7	4.7	3.1	3.9	3.4	4.2	4.1	3.2	3.7	3.7	4.5	5.1	3.9	4.9	2.9	4.3	4.4	3.2	5.7	6.3	6.3	5.6	6.3	6.7	6.1	7.0	3.9	4.1	2.6	NA	4.5	3.1	2.9	4.6	4.5	4.5	3.2	3.5	5.6	3.2	3.4	5.4	5.0	4.8
4	3.6	6.1	4.8	5.4	3.3	4.5	4.1	3.8	3.4	4.4	3.8	3.3	3.4	4.3	4.8	5.5	3.7	4.4	3.3	4.0	3.7	2.3	4.4	4.4	4.8	4.8	4.4	4.1	4.5	4.6	3.4	2.9	1.7	NA	4.1	2.4	2.3	4.1	3.8	3.6	2.4	6.5	6.7	3.8	2.8	5.4	5.1	5.0
5	3.8	4.1	4.1	3.6	2.5	4.0	3.6	2.5	2.4	4.2	2.8	4.1	3.3	3.9	4.3	4.0	2.7	3.6	2.9	3.2	2.1	1.6	1.6	3.4	3.4	2.0	3.4	3.8	5.5	5.0	1.9	2.2	1.4	NA	2.7	1.7	1.9	3.3	2.6	3.0	2.1	4.7	6.2	3.5	2.5	4.9	4.9	4.9
6	4.2	3.7	3.9	2.8	3.2	3.6	3.6	3.4	3.6	4.4	3.3	4.5	4.2	4.7	4.3	4.5	4.8	5.2	4.6	3.4	3.1	2.2	1.5	1.4	2.2	1.6	2.5	2.6	4.0	2.6	3.3	3.7	2.7	NA	3.8	2.4	2.3	3.4	2.4	3.0	4.8	3.3	3.4	4.0	4.0	5.0	4.9	5.1
7	-2.2	-3.5	-1.8	-3.4	-1.3	-2.2	-2.5	-2.5	-2.3	-2.3	-2.2	-2.6	-2.4	-2.2	-3.1	-4.0	-3.1	-3.1	-2.3	-4.3	-5.4	-4.3	-6.9	-7.1	-7.8	-7.1	-8.2	-7.5	-7.9	-7.6	-4.6	-3.8	-2.7	NA	-5.4	-3.2	-1.4	-1.7	-5.5	-3.4	-0.1	-3.0	-2.9	-2.3	0.3	1.3	1.6	2.5
8	-2.9	-4.3	-2.7	-3.4	-3.4	-3.5	-3.7	-3.3	-2.8	-3.2	-3.0	-3.3	-3.1	-3.0	-4.3	-5.1	-7.5	-5.8	-4.3	-6.4	-7.7	-4.5	-7.0	-7.4	-8.0	-7.6	-8.4	-8.1	-8.7	-5.4	-7.4	-6.9	-5.8	NA	-8.7	-5.8	-3.8	-3.4	-7.4	-3.8	-2.2	-6.0	-6.0	-5.5	-4.4	-2.1	-0.5	0.5
9	-2.1	-2.2	-0.7	-1.4	-2.3	-1.8	-1.8	-1.0	-0.6	-1.1	-1.3	-2.3	-1.8	-1.9	-2.8	-3.9	-5.2	-3.6	-1.1	-3.4	-5.4	-2.1	-5.0	-4.4	-5.2	-5.5	-6.4	-7.4	-9.0	-5.3	-6.4	-6.6	-6.2	NA	-7.8	-3.4	-0.7	-0.2	-4.0	-1.3	-3.3	-5.0	-3.6	-1.9	-2.8	-1.3	-0.1	0.2
10	3.0	3.3	3.8	3.4	2.1	1.6	2.8	2.7	3.0	1.8	2.9	2.8	2.5	3.8	1.4	3.0	-3.7	-2.7	-1.0	1.6	0.1	3.4	1.6	2.2	2.1	1.6	1.1	1.3	0.4	3.3	-2.7	-4.8	-2.5	NA	-4.7	-2.7	-0.9	1.5	0.7	-1.1	1.8	3.5	3.5	1.7	-0.8	0.0	0.2	-0.7
11	4.7	2.7	3.8	2.0	2.4	3.2	3.2	3.9	4.0	3.6	3.9	5.2	4.4	5.6	4.2	5.0	0.6	2.8	0.6	2.9	4.7	3.9	4.7	5.2	4.9	4.4	3.7	2.4	1.9	0.9	-0.3	-0.4	-0.4	NA	-0.7	-0.7	2.0	3.8	3.0	2.6	8.5	6.6	8.1	5.0	4.7	6.6	4.0	4.4
12	3.4	1.2	2.9	1.3	2.1	3.2	2.8	2.9	2.7	3.4	3.0	3.1	3.0	3.3	2.4	1.7	0.6	1.4	2.7	1.4	3.7	0.5	0.7	3.2	3.4	1.4	2.4	1.4	2.6	2.1	1.7	2.3	1.0	NA	0.6	0.8	1.3	2.7	3.9	3.0	6.2	7.2	8.9	5.9	6.2	6.6	3.7	2.9
13	2.2	1.1	2.6	1.6	3.7	4.0	3.5	3.3	3.5	3.2	2.9	1.9	2.5	2.4	1.5	0.7	1.9	1.1	2.8	1.3	0.2	1.7	-0.7	-0.4	-1.5	-1.2	-1.9	-2.3	-2.8	0.9	0.3	0.8	0.7	NA	0.3	2.0	2.7	3.1	-0.4	0.3	6.7	2.1	4.0	3.2	5.2	7.4	6.1	4.1
14	-0.4	-2.2	0.8	-0.9	1.8	0.8	0.3	-0.3	0.1	0.3	-0.4	0.0	-0.6	-0.4	-1.1	-1.9	-0.1	-0.8	1.0	-1.1	-1.4	-0.1	-2.9	-2.4	0.2	-4.5	-1.8	-1.7	-2.1	1.1	-2.4	-1.1	-2.3	NA	-1.0	-1.7	-1.0	0.2	-1.7	-0.5	-0.6	-0.1	-2.6	-0.7	-0.7	0.7	0.6	1.6
15	-5.1	-4.3	-2.9	-3.1	0.3	0.3	-1.9	-2.5	-2.2	-1.7	-3.2	-4.9	-4.4	-4.5	-4.4	-5.6	-3.7	-5.5	-0.9	-3.3	-1.2	-0.7	0.5	1.2	2.1	-0.8	2.8	4.3	3.1	4.4	-1.3	-2.4	-3.4	NA	-1.3	-1.7	-1.7	-0.5	-0.8	-1.1	-1.2	-3.1	-3.3	-2.3	-1.9	-0.6	-0.9	-1.7
16	-3.0	-1.9	-0.5	-0.2	0.7	0.9	-1.5	-1.4	-0.7	-0.2	-1.1	-2.9	-1.7	-2.2	-2.3	-3.5	-3.6	-4.4	-2.0	-1.2	-0.2	-0.9	0.8	1.1	2.0	1.0	2.5	4.0	3.4	3.6	-0.5	-1.0	-2.2	NA	-0.5	-1.4	-2.5	-0.7	-0.5	-0.5	-2.9	-2.9	-0.8	-3.6	-3.0	-0.9	-1.4	-3.0
17	0.1	0.4	1.3	1.4	0.0	1.3	0.0	-0.1	0.2	-0.2	0.4	-1.4	0.4	0.1	0.2	-1.4	-2.0	-2.2	-2.2	-1.0	-0.8	-0.6	-0.4	0.5	1.0	-0.6	1.2	1.2	1.6	2.5	-0.6	-0.4	-1.0	NA	-0.4	-1.4	-2.1	-0.5	-1.0	-0.2	-3.1	-1.0	-0.6	-3.8	-2.5	-1.2	-1.2	-2.4
18	2.2	3.7	2.6	4.2	1.8	1.8	2.4	0.4	2.6	0.3	2.9	-0.4	2.0	2.3	2.2	4.3	0.6	2.7	-0.6	2.2	2.8	3.3	4.0	3.7	3.0	2.7	3.0	2.5	1.3	-0.6	0.3	-0.4	-0.4	NA	1.1	-1.4	-1.5	0.1	0.5	0.3	-1.7	0.1	-0.2	-2.7	-2.5	-1.4	-1.3	-1.7
19	-1.7	-3.7	-3.2	-3.1	0.5	-0.3	-0.4	0.4	-0.3	-1.7	-1.0	-1.6	-0.9	-0.3	-1.6	-1.2	-0.2	1.1	1.6	-1.4	-0.3	-2.1	-4.3	-4.3	-3.3	-3.2	-3.1	-2.5	-2.5	-2.3	-0.6	-1.1	1.1	NA	-0.1	-0.2	-0.3	-0.6	-1.0	-0.2	-0.1	-1.2	-2.5	-1.6	-1.7	-1.4	-0.5	0.5
20	-3.1	-4.3	-3.2	-3.7	-3.1	-2.5	-2.8	-3.4	-3.1	-3.6	-3.1	-3.8	-3.5	-3.8	-4.2	-4.6	-4.4	-5.0	-3.0	-5.3	-6.1	-4.5	-7.3	-7.2	-9.0	-7.5	-8.7	-9.1	-9.9	-8.2	-6.1	-4.4	-4.7	NA	-5.7	-2.7	-2.7	-2.3	-5.8	-4.7	-0.7	-4.5	-3.9	-2.4	-0.4	0.9	1.0	1.8
21	-4.4	-5.2	-6.0	-5.2	-3.8	-3.7	-3.9	-5.2	-4.5	-4.3	-4.3	-3.5	-4.8	-4.9	-4.8	-5.3	-5.1	-4.9	-4.7	-5.9	-6.9	-5.3	-6.7	-5.7	-5.6	-7.5	-4.5	-4.7	-5.0	-1.6	-7.5	-5.9	-7.5	NA	-5.7	-5.5	-5.5	-4.3	-5.9	-5.0	-5.9	-5.5	-5.2	-5.5	-5.4	-2.7	-2.7	-3.6
22	-5.1	-5.4	-4.2	-4.4	-4.3	-1.9	-4.8	-5.1	-5.0	-4.8	-5.2	-5.1	-5.3	-4.6	-5.6	-6.0	-5.3	-6.3	-5.5	-4.9	-4.8	-3.5	-2.8	-2.7	-3.6	-3.5	-2.1	0.0	-1.4	0.7	-6.0	-5.5	-5.6	NA	-4.5	-4.9	-5.8	-4.0	-4.2	-3.8	-4.4	-4.2	-6.4	-3.7	-3.2	-1.8	-1.8	-2.2
23	-4.0	-5.0	-3.2	-1.6	-2.8	-1.3	-3.6	-5.1	-4.9	-4.3	-4.6	-4.1	-4.0	-5.2	-4.5	-4.8	-3.4	-4.3	-4.6	-3.2	-3.4	-2.7	-2.1	-2.0	-1.7	-2.4	-1.1	-1.0	-3.4	1.0	-4.0	-4.4	-3.5	NA	-2.5	-3.3	-4.9	-3.4	-2.9	-3.8	-2.8	-4.6	-5.8	-4.3	-3.6	-2.2	-3.4	-4.7
24	-0.5	-1.4	-1.4	-1.9	-0.8	-0.5	-3.8	-3.5	-1.7	-0.7	-0.9	0.0	-0.5	-1.3	-1.0	-0.3	1.1	2.6	3.6	0.3	-0.1	2.4	0.9	0.4	1.7	2.2	1.8	-0.1	-3.8	0.3	-2.5	-2.0	-1.6	NA	-1.3	-1.8	-0.1	0.0	-1.3	-1.4	-1.8	-4.2	-5.6	-3.6	-3.1	-3.2	-2.9	-2.6
25	0.8	0.8	-0.1	0.6	0.9	1.5	0.5	0.3	0.5	0.5	0.5	0.4	0.5	1.0	0.4	4.6	3.9	8.1	8.0	5.7	2.1	2.7	1.7	-0.2	1.3	2.7	2.2	2.3	0.6	-1.6	2.8	0.3	0.4	NA	0.8	0.1	2.8	2.2	-0.3	-1.4	-0.1	-3.4	-3.8	-4.4	-4.6	-4.2	-3.4	-1.5
26	1.8	2.0	2.3	1.3	0.0	1.9	1.6	1.6	1.6	1.9	1.6	1.9	1.5	1.6	1.9	1.5	1.5	1.4	1.8	0.8	-0.2	0.3	-1.5	-1.0	-1.3	-0.9	-0.8	-0.2	0.0	-1.1	1.0	2.0	1.6	NA	-0.5	1.3	1.3	1.7	0.3	-1.1	1.4	-1.2	-0.2	-0.6	-0.8	-0.8	-0.2	1.5
27	0.8	0.2	1.2	0.8	-0.1	1.1	-1.1	-1.9	-1.2	-0.6	-0.2	0.2	0.3	-0.4	0.2	-0.7	3.7	-0.1	-1.5	0.1	0.9	1.4	2.9	2.0	2.7	2.6	4.2	4.7	2.7	4.0	0.9	0.9	-0.8	NA	1.1	-0.4	3.0	2.2	2.1	0.0	-0.6	-1.9	0.2	-1.9	-0.9	0.2	0.2	1.2
28	0.2	2.7	2.3	3.2	2.0	2.6	0.5	0.5	-0.4	-0.3	-0.2	1.0	-0.4	-1.2	0.4	2.5	2.0	0.0	-0.4	2.6	2.8	3.3	3.9	4.3	4.1	4.6	4.9	5.3	5.3	5.7	1.7	0.6	0.4	NA	3.0	0.8	1.4	2.2	2.5	2.5	-0.1	-0.5	1.7	-1.3	0.0	0.3	0.5	0.4
29	0.1	3.8	3.0	4.6	3.7	3.7	2.8	2.4	0.7	0.6	0.3	0.5	-0.3	-0.8	1.0	2.0	1.1	1.0	-0.8	3.4	4.1	5.7	6.1	6.1	5.2	5.8	6.4	7.0	5.8	4.9	3.1	2.2	1.5	NA	3.3	1.1	1.0	1.8	3.8	3.6	0.5	2.1	4.6	-0.4	0.7	0.6	0.4	1.2
30	2.7	4.7	3.5	5.1	4.9	4.9	4.2	3.5	3.0	3.2	2.7	1.5	2.4	1.7	3.2	3.7	1.0	1.5	0.6	3.2	3.3	5.1	3.3	3.2	2.9	3.6	3.4	4.5	4.5	4.7	2.4	2.6	1.6	NA	3.5	1.4	0.7	2.4	2.7	3.1	0.8	4.3	5.1	-0.6	1.1	1.5	1.2	2.2
31	0.7	1.9	2.4	3.9	4.4	4.3	2.1	1.4	2.1	2.5	1.7	0.8	1.3	0.9	1.1	-0.1	-0.6	-2.5	-0.2	2.3	2.6	3.5	3.6	3.2	3.2	3.7	5.4	6.4	4.8	4.3	3.8	2.4	1.5	NA	5.2	1.8	-0.1	2.1	3.5	3.8	0.3	0.9	4.3	-1.2	0.3	1.5	2.0	2.7
Mtt.	0.2	0.4	0.9	1.0	0.9	1.4	0.5	0.3	0.4	0.5	0.4	0.1	0.2	0.3	0.1	0.2	-0.2	-0.1	0.2	0.3	0.2	0.7	0.5	0.6	0.7	0.3	0.9	1.1	0.5	1.5	-0.4	-0.5	-0.8	NA	-0.2	-0.5	-0.1	0.9	0.1	0.3	0.4	0.0	0.7	-0.6	-0.2	1.1	1.0	1.0	Mtt.

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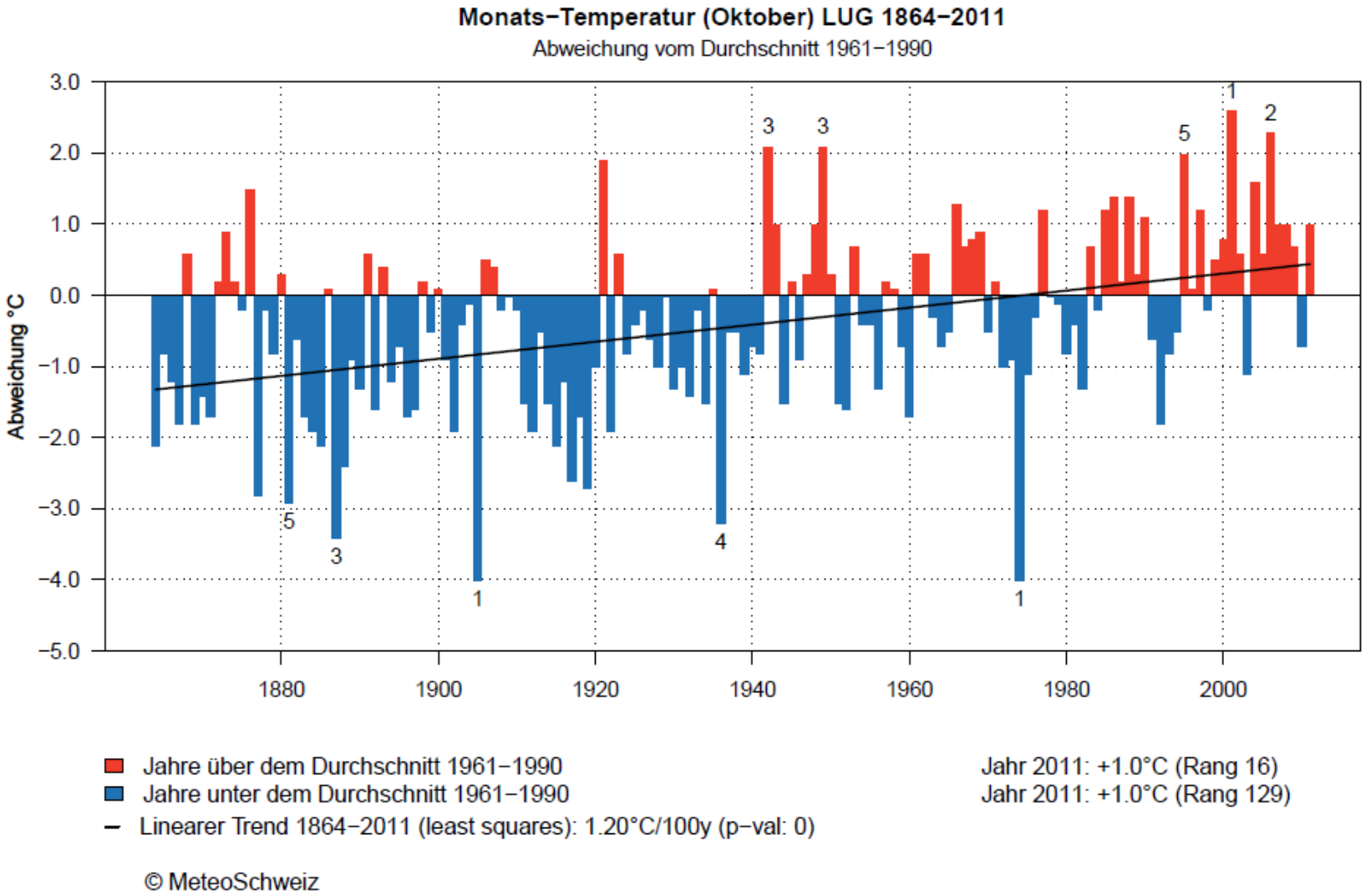
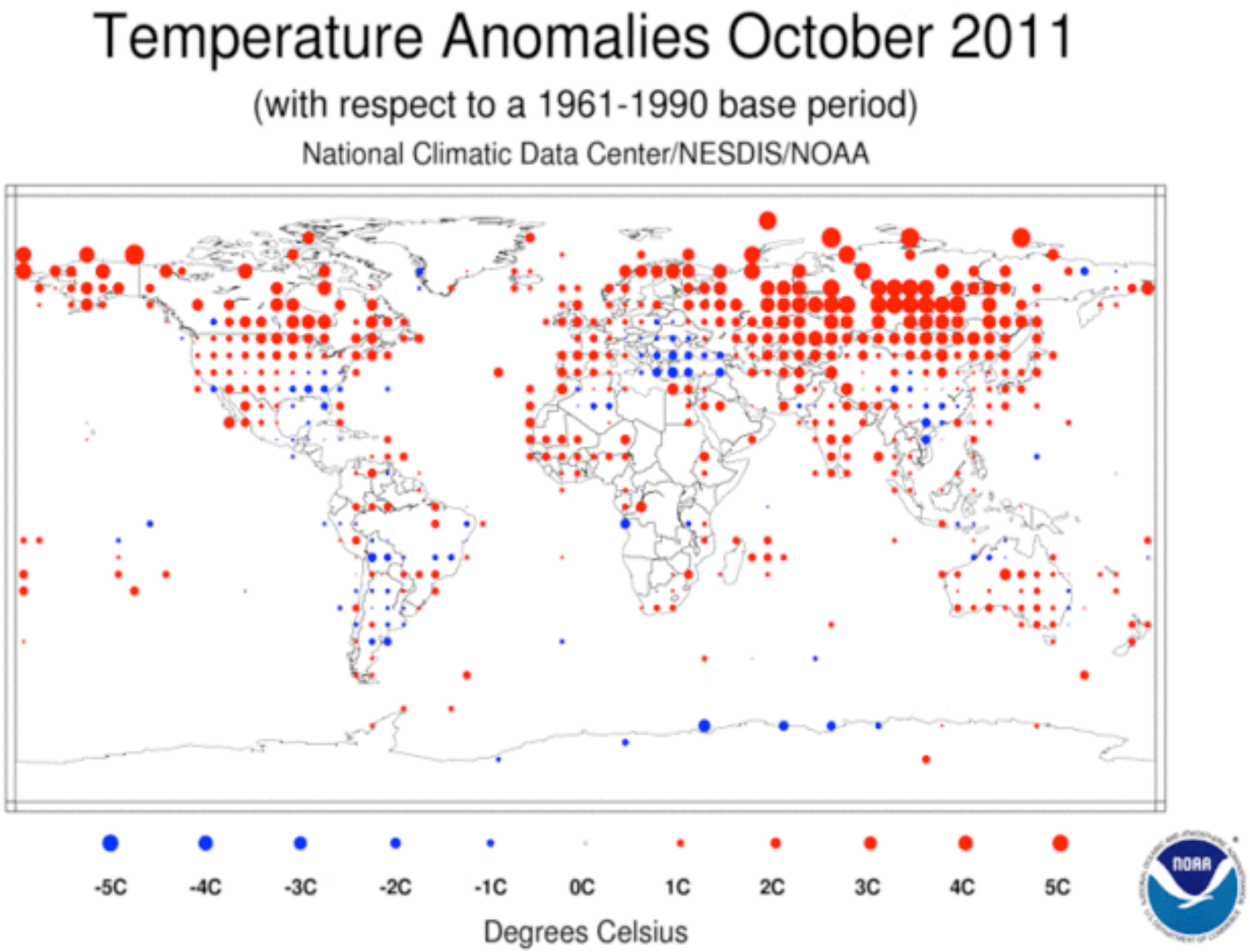
−10 −5 −2.5 −1 1 2.5 5 10

Temperatura: ottobre 2011 e gli altri



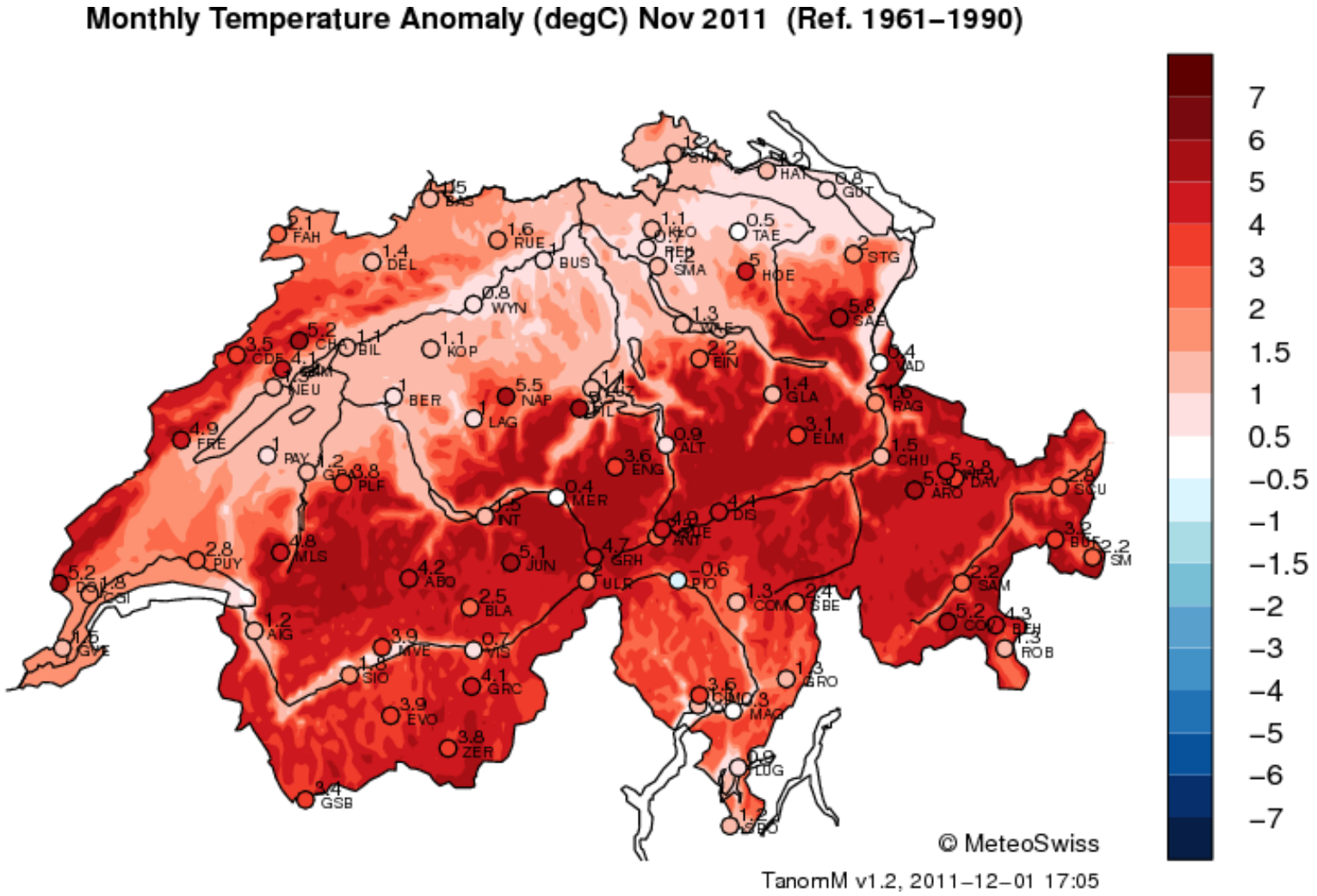
Temperatura: anomalie globali ottobre 2011



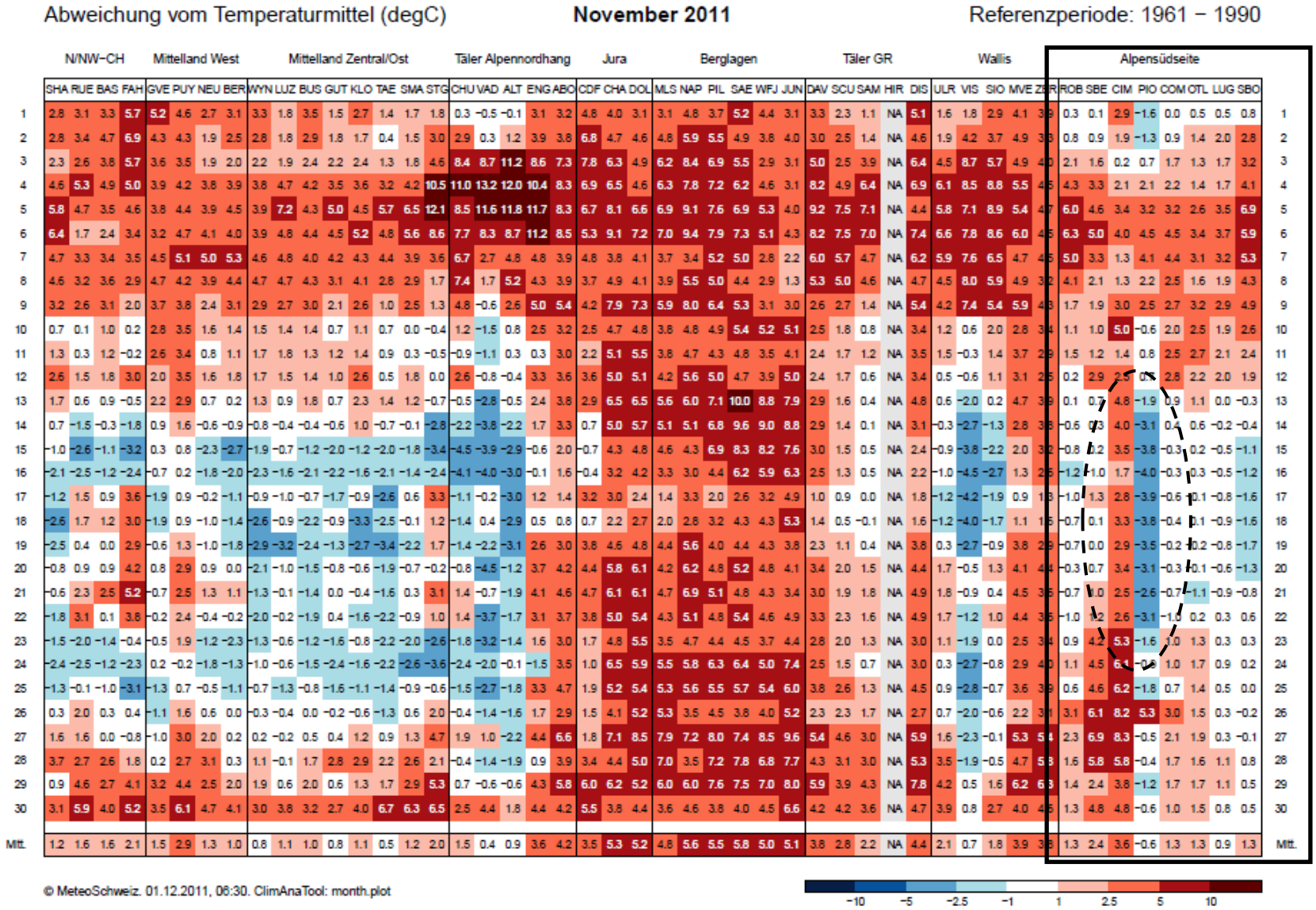
Temperatura: anomalie globali ottobre 2011

October	Anomaly		Rank (out of 132 years)	Records		
	°C	°F		Year(s)	°C	°F
Global						
Land	+1.10 ± 0.11	+1.98 ± 0.20	2nd Warmest	Warmest: 2005	+1.14	+2.05
			131st Coolest	Coolest: 1976	-0.88	-1.58
Ocean	+0.39 ± 0.04	+0.70 ± 0.07	11th Warmest	Warmest: 2003	+0.58	+1.04
			122nd Coolest	Coolest: 1909	-0.47	-0.85
	Ties: 1998					
Land and Ocean	+0.58 ± 0.07	+1.04 ± 0.13	8th Warmest	Warmest: 2003	+0.72	+1.30
			125th Coolest	Coolest: 1912	-0.54	-0.97
Northern Hemisphere						
Land	+1.29 ± 0.11	+2.32 ± 0.20	1st Warmest	Warmest: 2003	+1.25	+2.25
			132nd Coolest	Coolest: 1912	-1.15	-2.07
Ocean	+0.40 ± 0.04	+0.72 ± 0.07	12th Warmest	Warmest: 2003, 2006	+0.65	+1.17
			121st Coolest	Coolest: 1912	-0.50	-0.90
Land and Ocean	+0.73 ± 0.08	+1.31 ± 0.14	5th Warmest	Warmest: 2003	+0.88	+1.58
			128th Coolest	Coolest: 1912	-0.74	-1.33
Southern Hemisphere						
Land	+0.58 ± 0.17	+1.04 ± 0.31	16th Warmest	Warmest: 2006	+1.15	+2.07
			117th Coolest	Coolest: 1910	-0.74	-1.33
Ocean	+0.39 ± 0.04	+0.70 ± 0.07	13th Warmest	Warmest: 1997	+0.59	+1.06
			120th Coolest	Coolest: 1910	-0.46	-0.83
Land and Ocean	+0.42 ± 0.06	+0.76 ± 0.11	12th Warmest	Warmest: 1997	+0.62	+1.12
			121st Coolest	Coolest: 1910	-0.51	-0.92
	Ties: 1996, 2001, 2007					

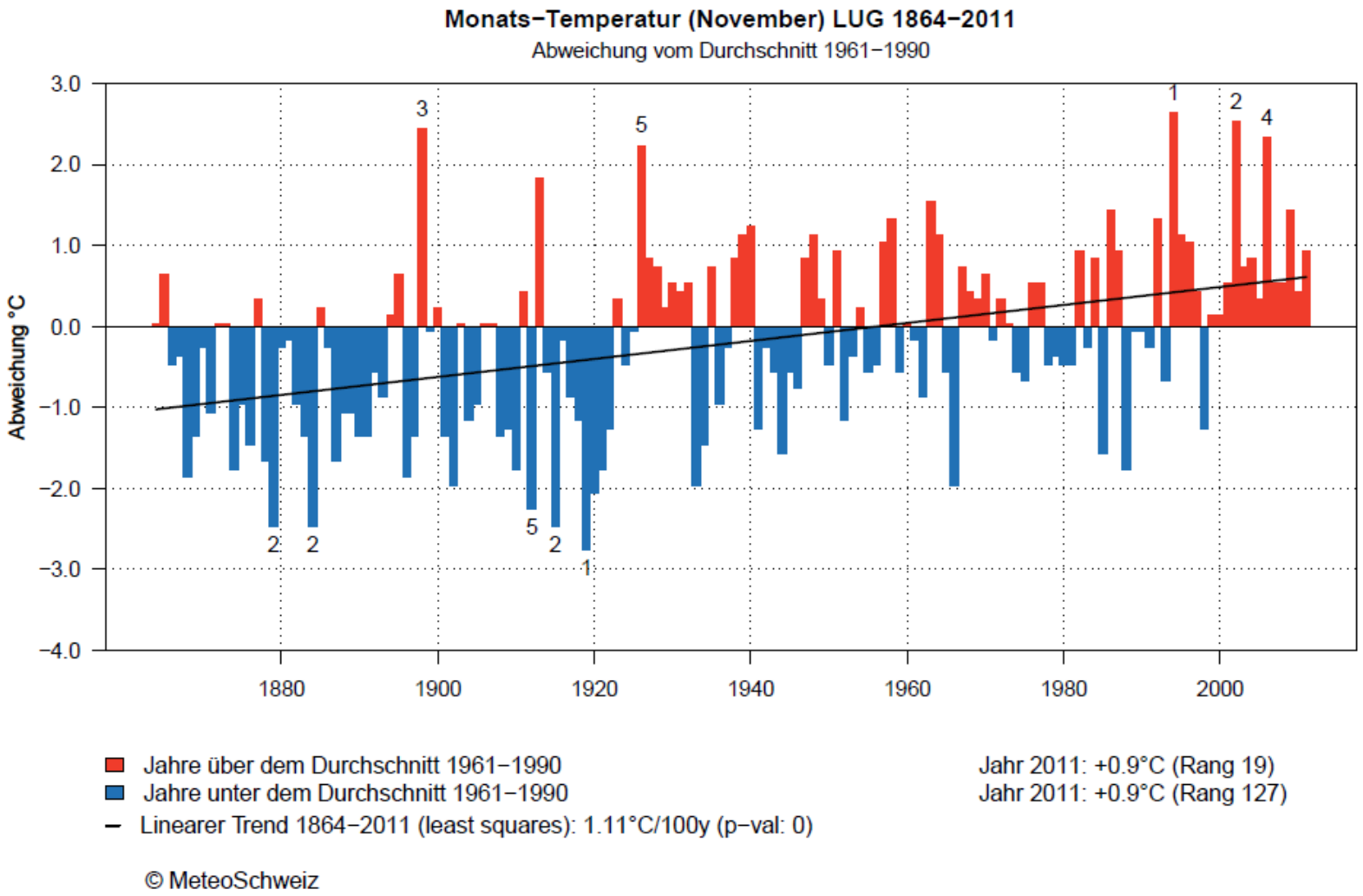
Temperatura: novembre 2011



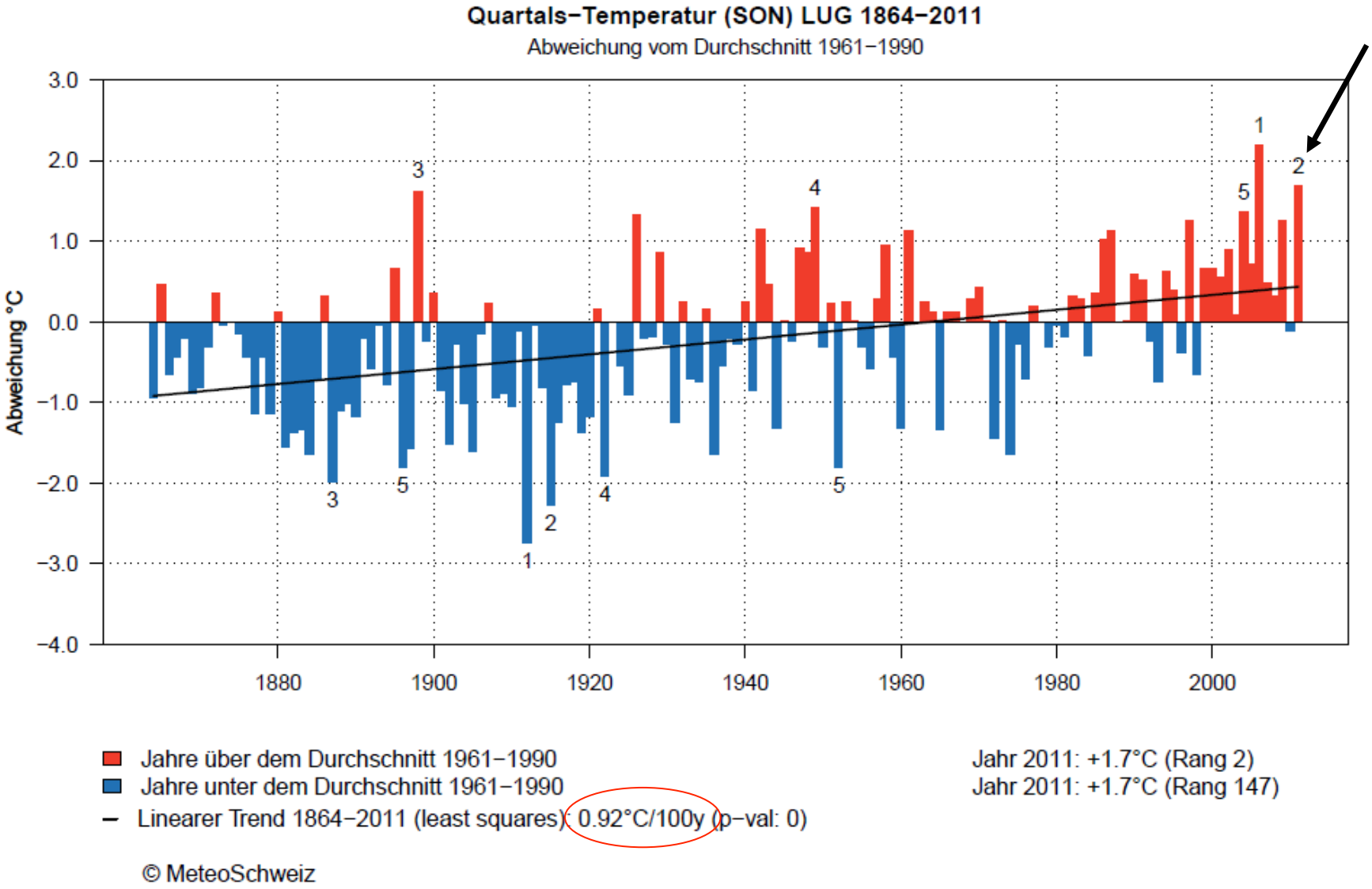
Temperatura: novembre 2011



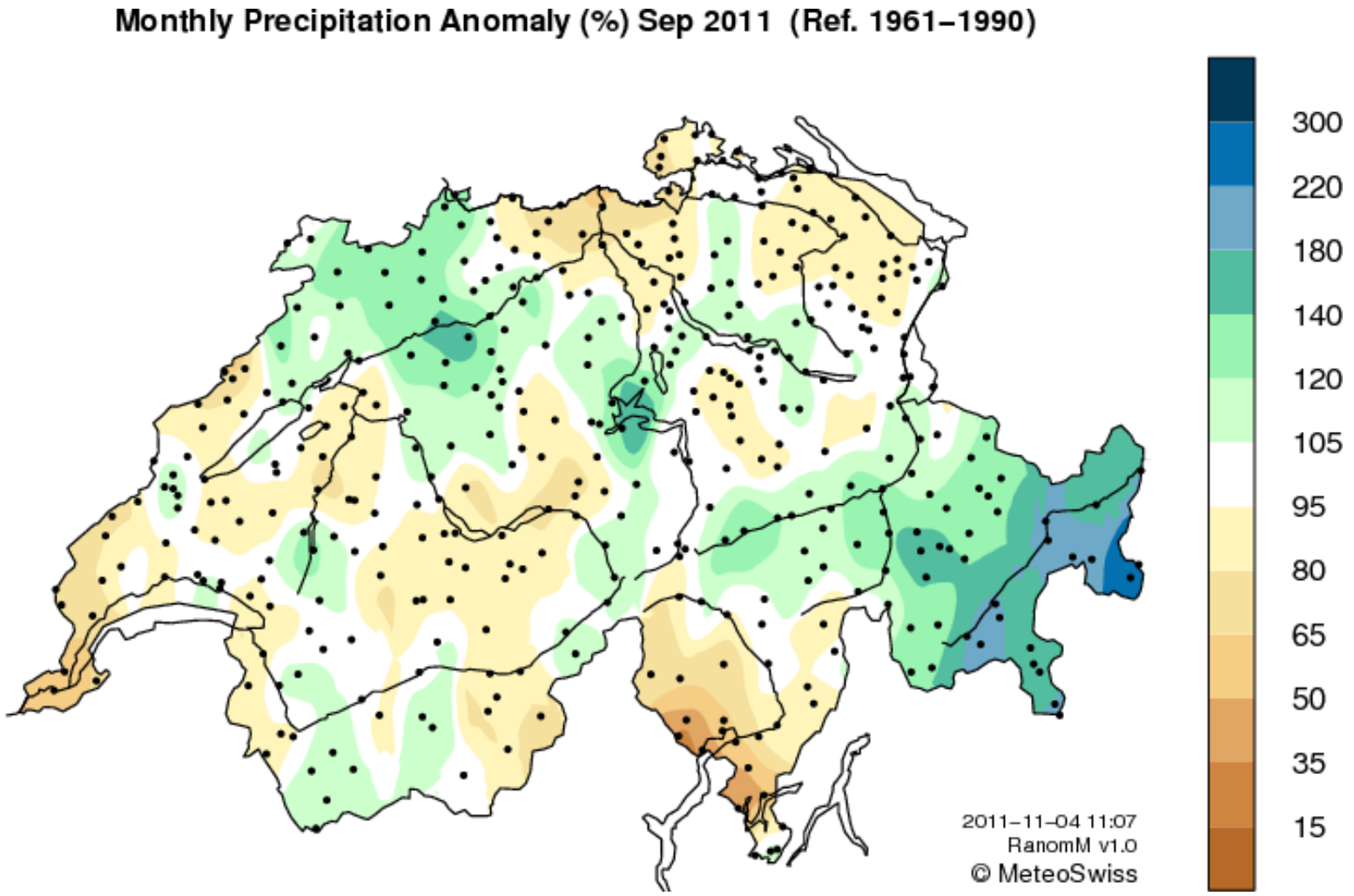
Temperatura: novembre TI 2011 e gli altri



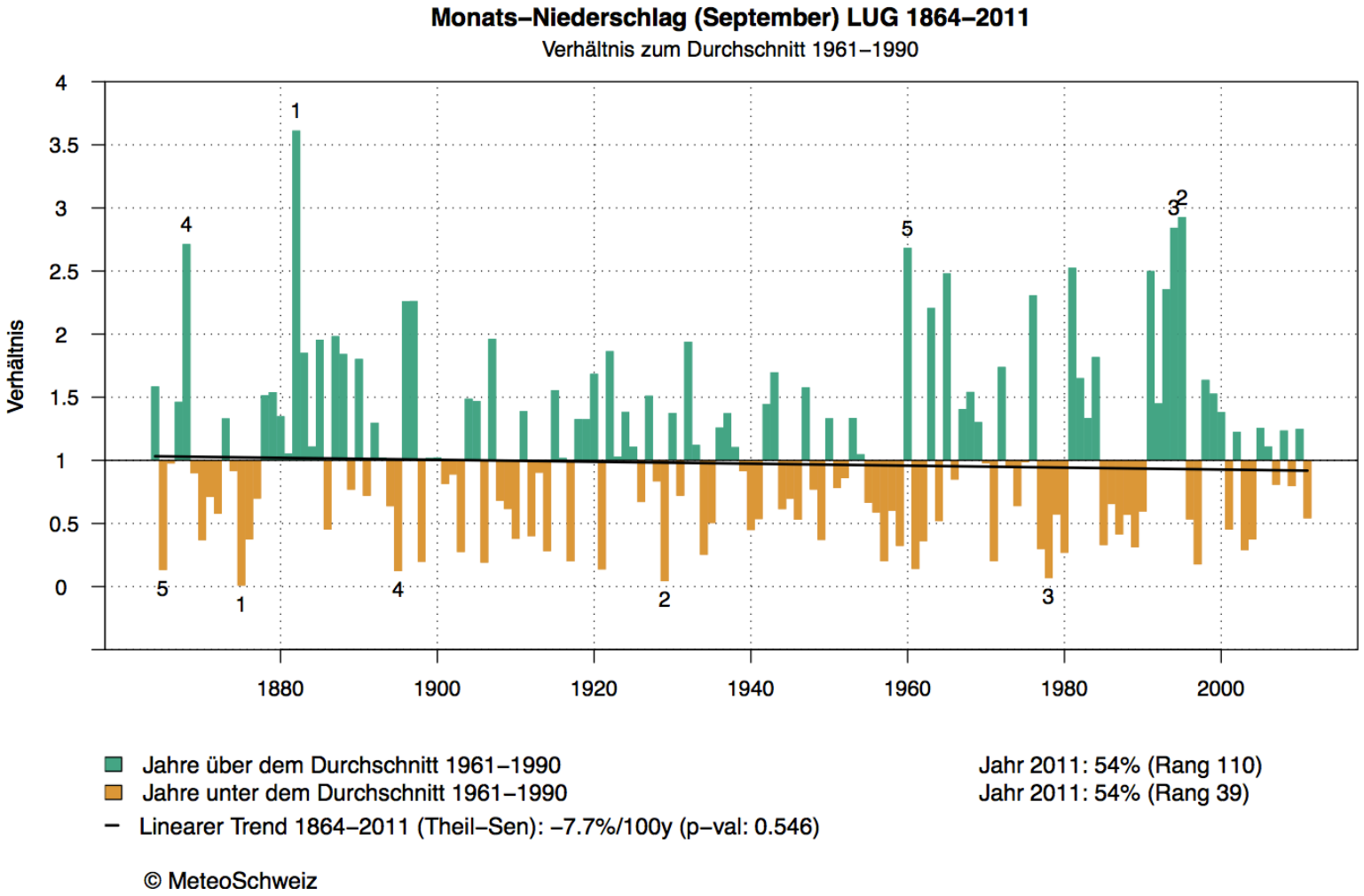
L ‘autunno TI 2011 rispetto agli altri



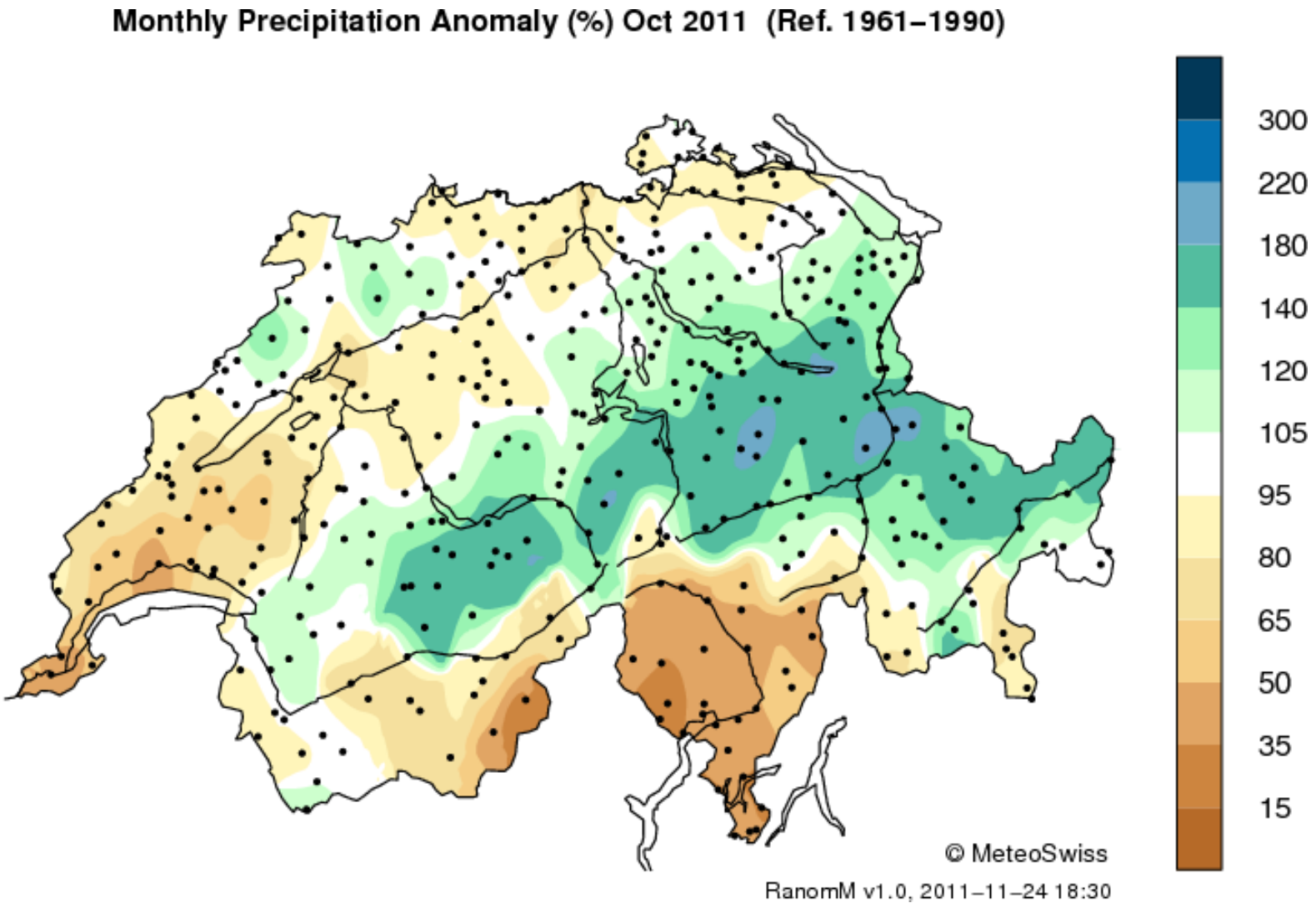
Precipitazioni: settembre 2011



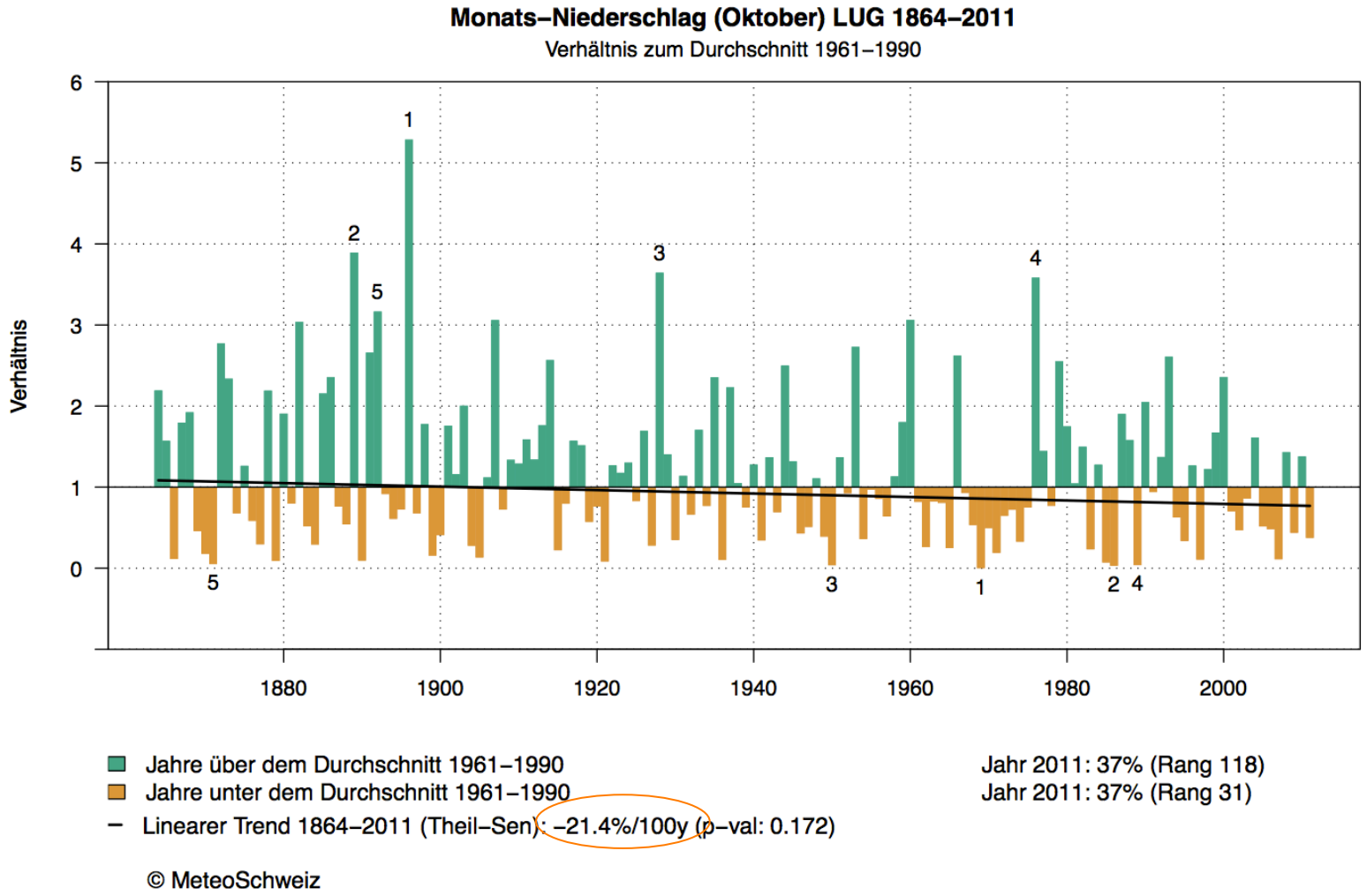
Settembre 2011 e gli altri



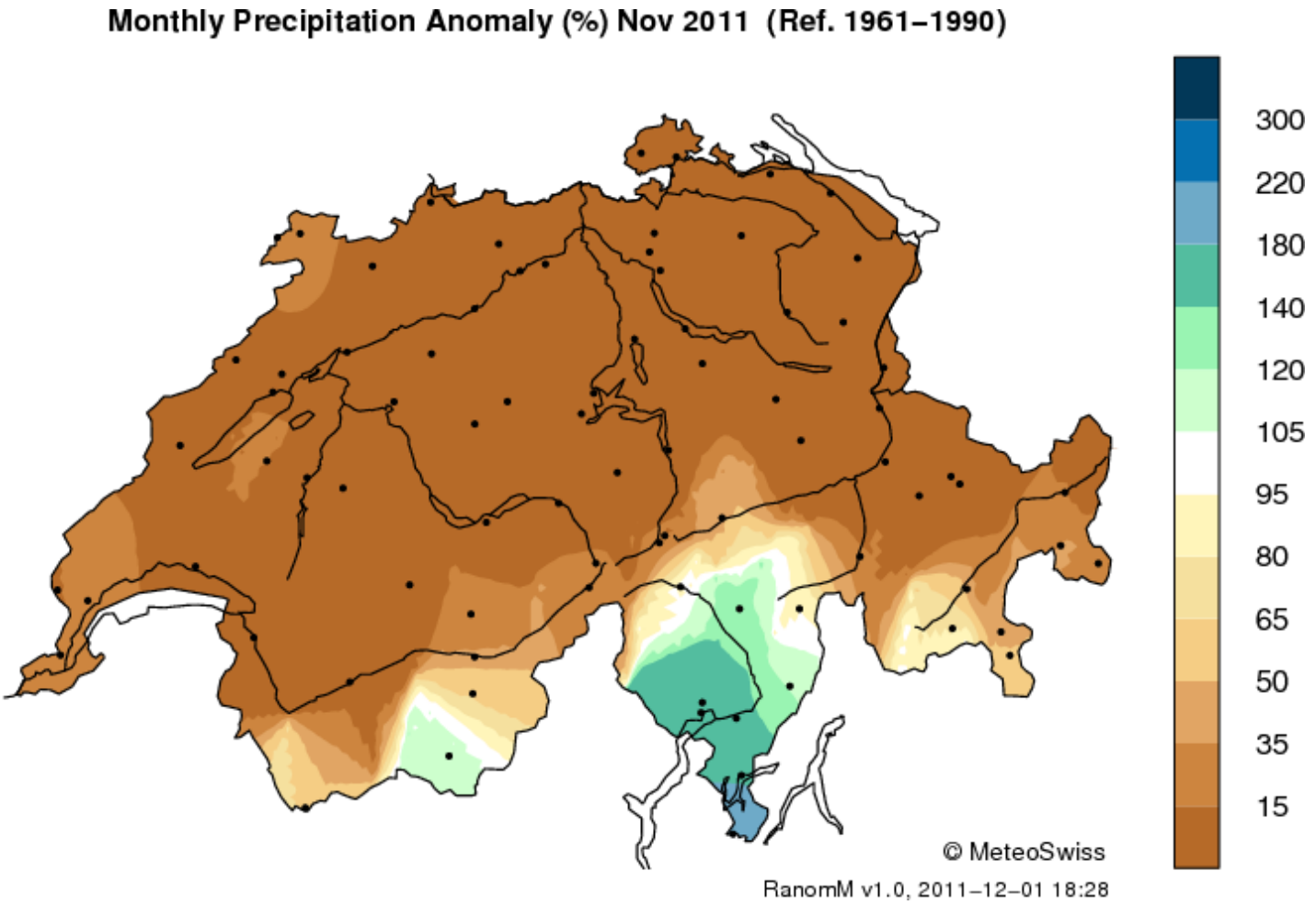
Precipitazioni: ottobre 2011



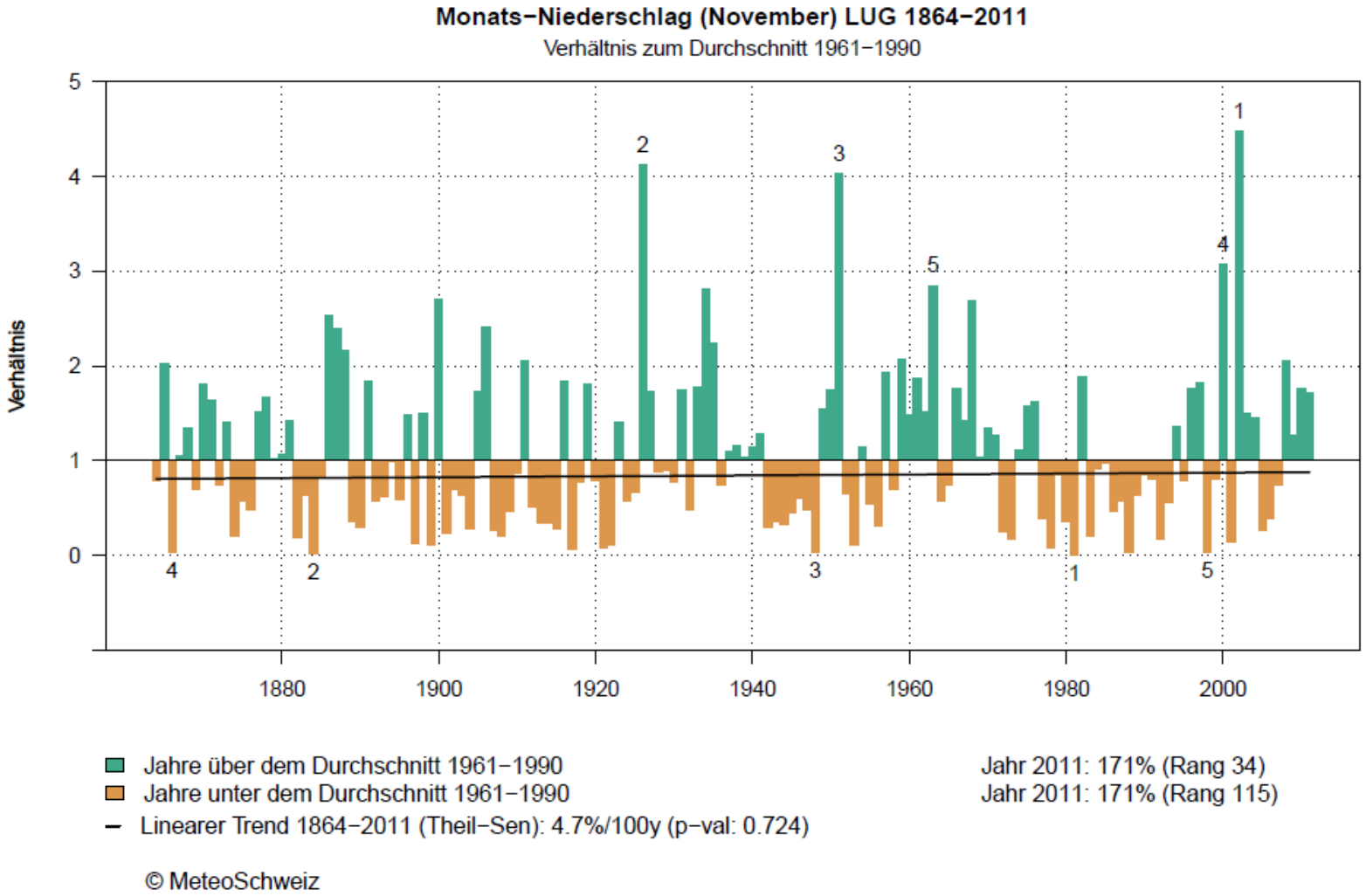
Ottobre 2011 e gli altri



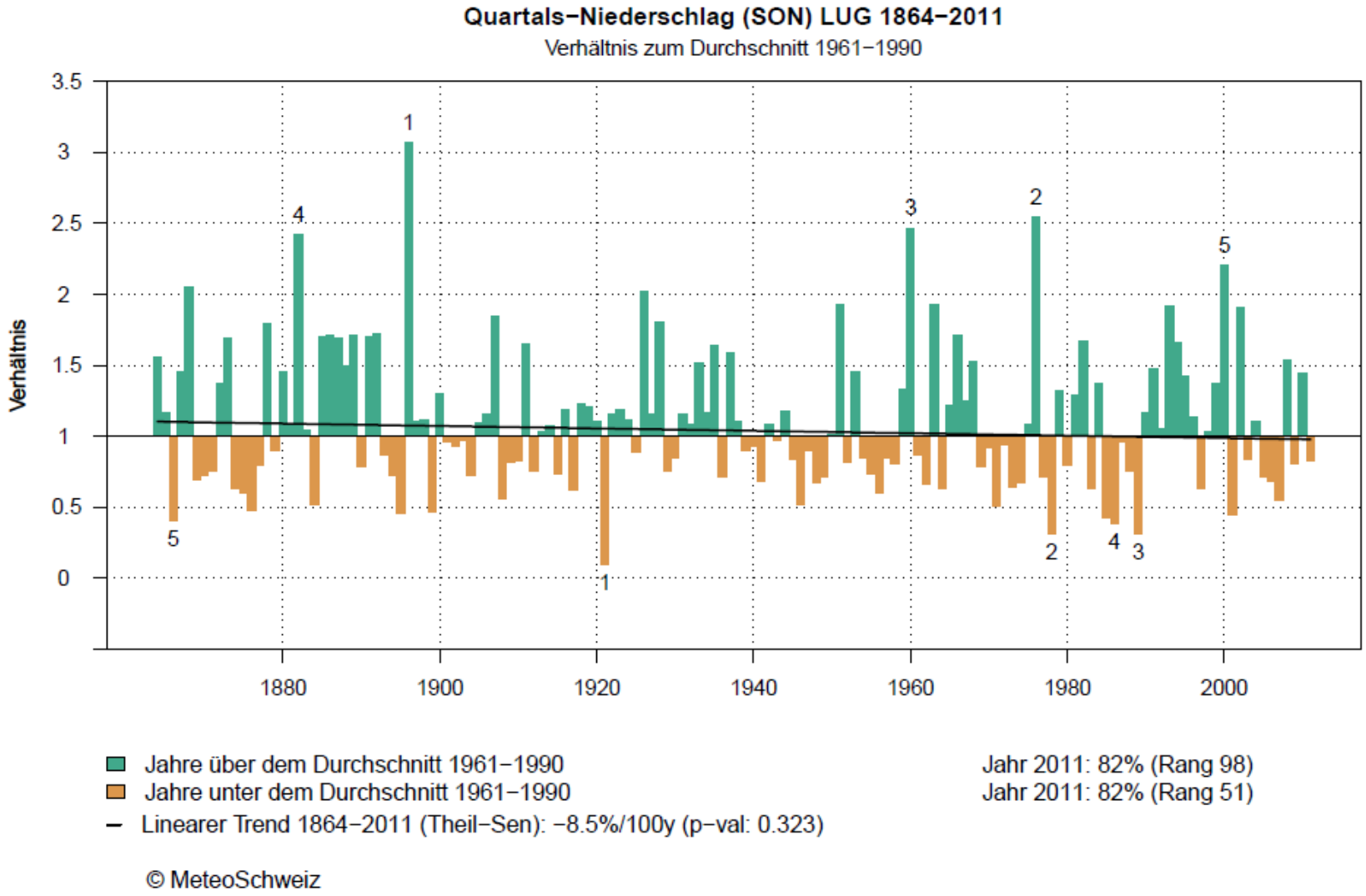
Precipitazioni novembre 2011



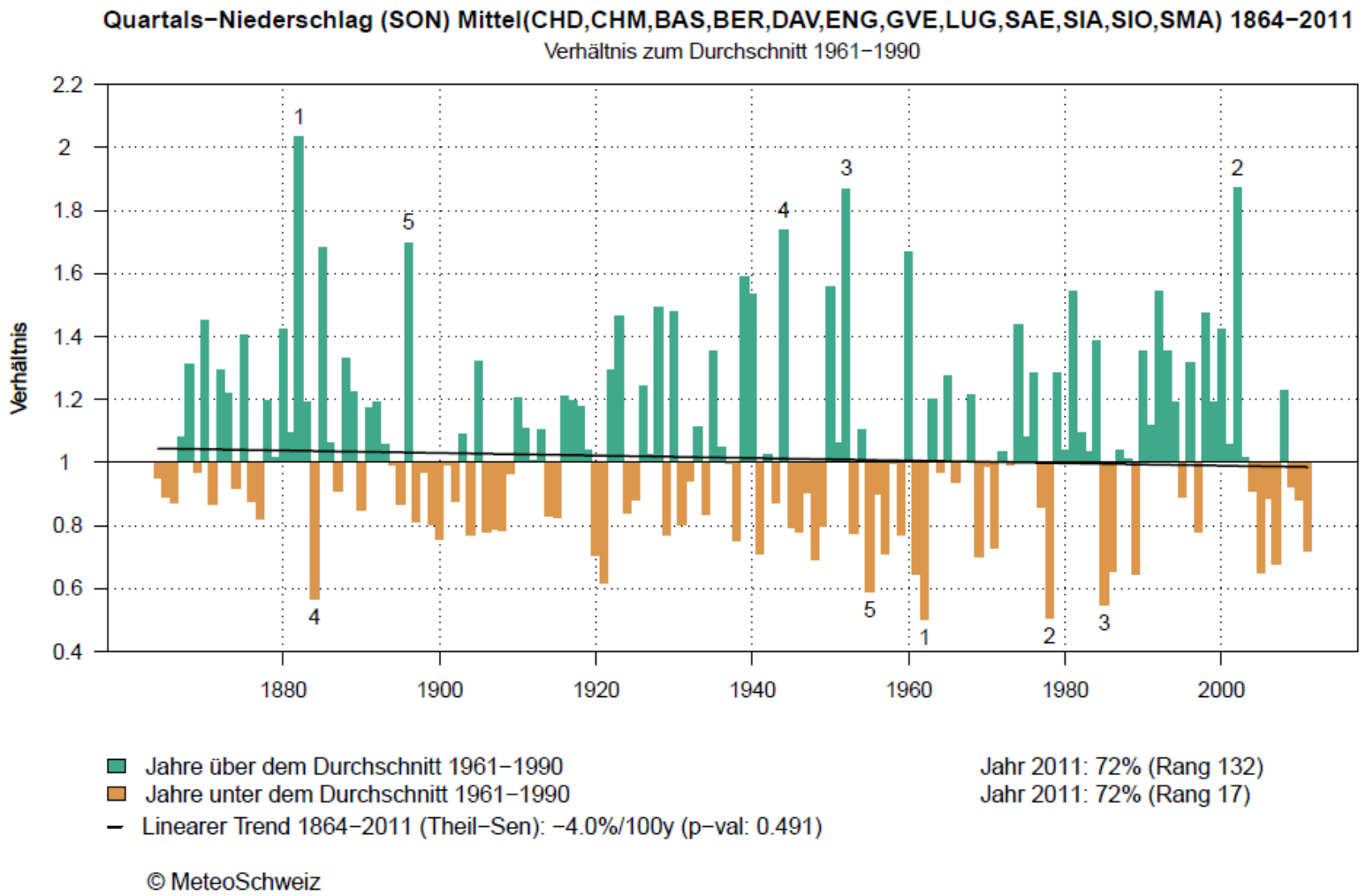
Novembre 2011 e gli altri



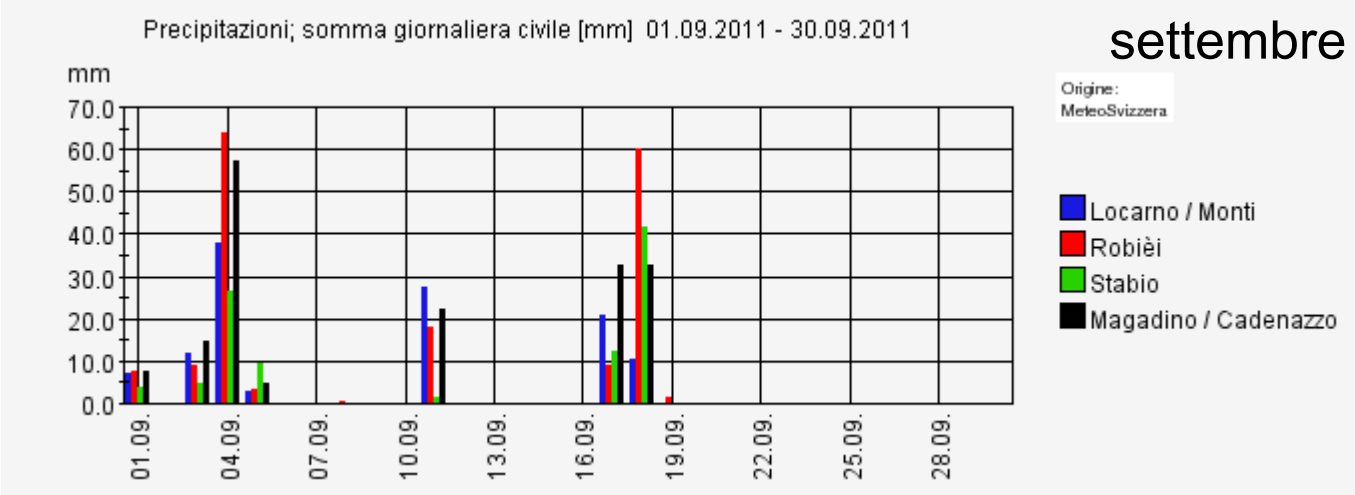
L ‘autunno TI 2011 rispetto agli altri

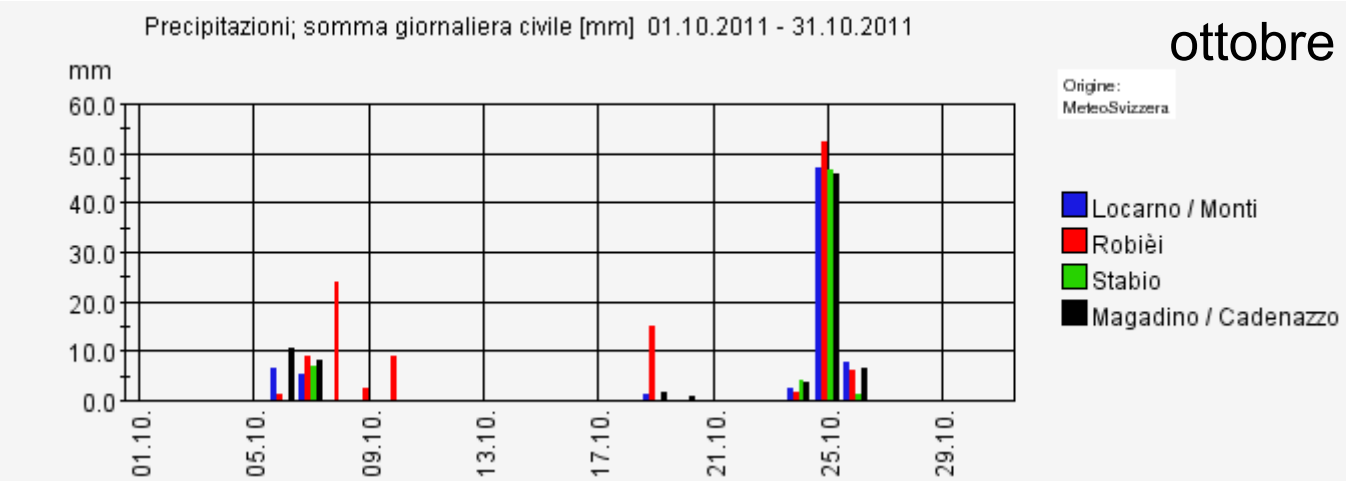


L ‘autunno CH 2011 rispetto agli altri



Precipitazioni giornaliere

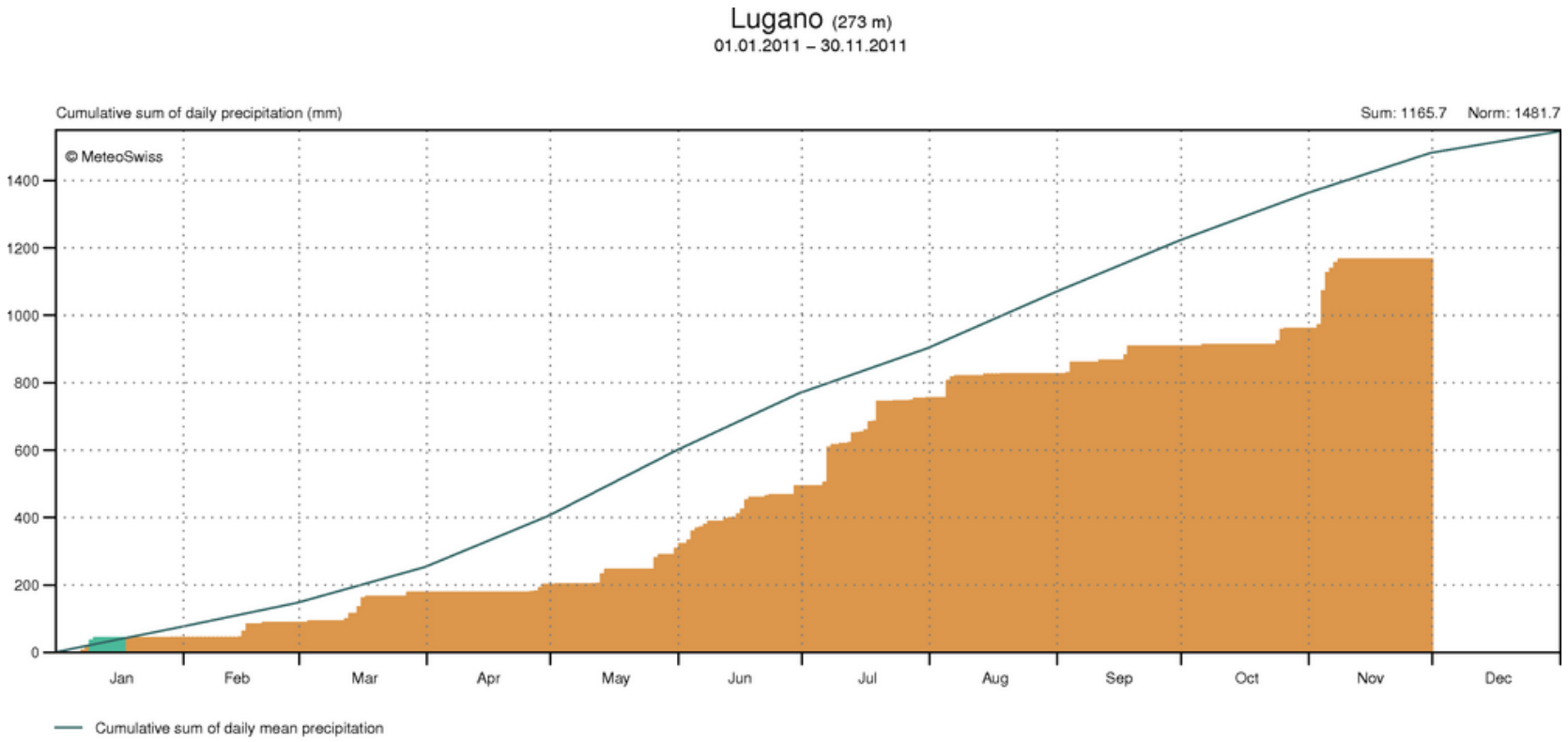




Precipitazioni giornaliere

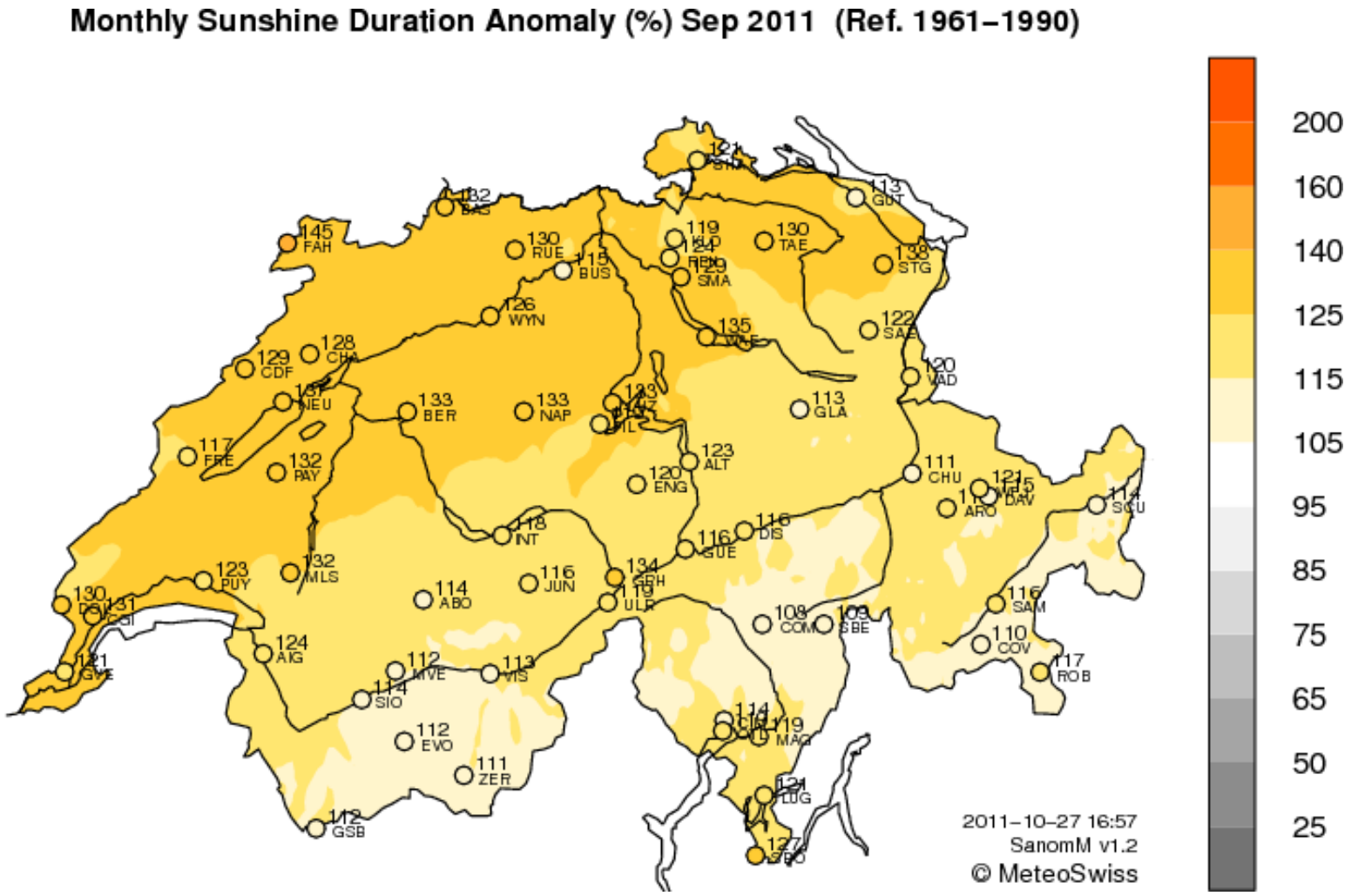
novembre

Il deficit idrico del 2011

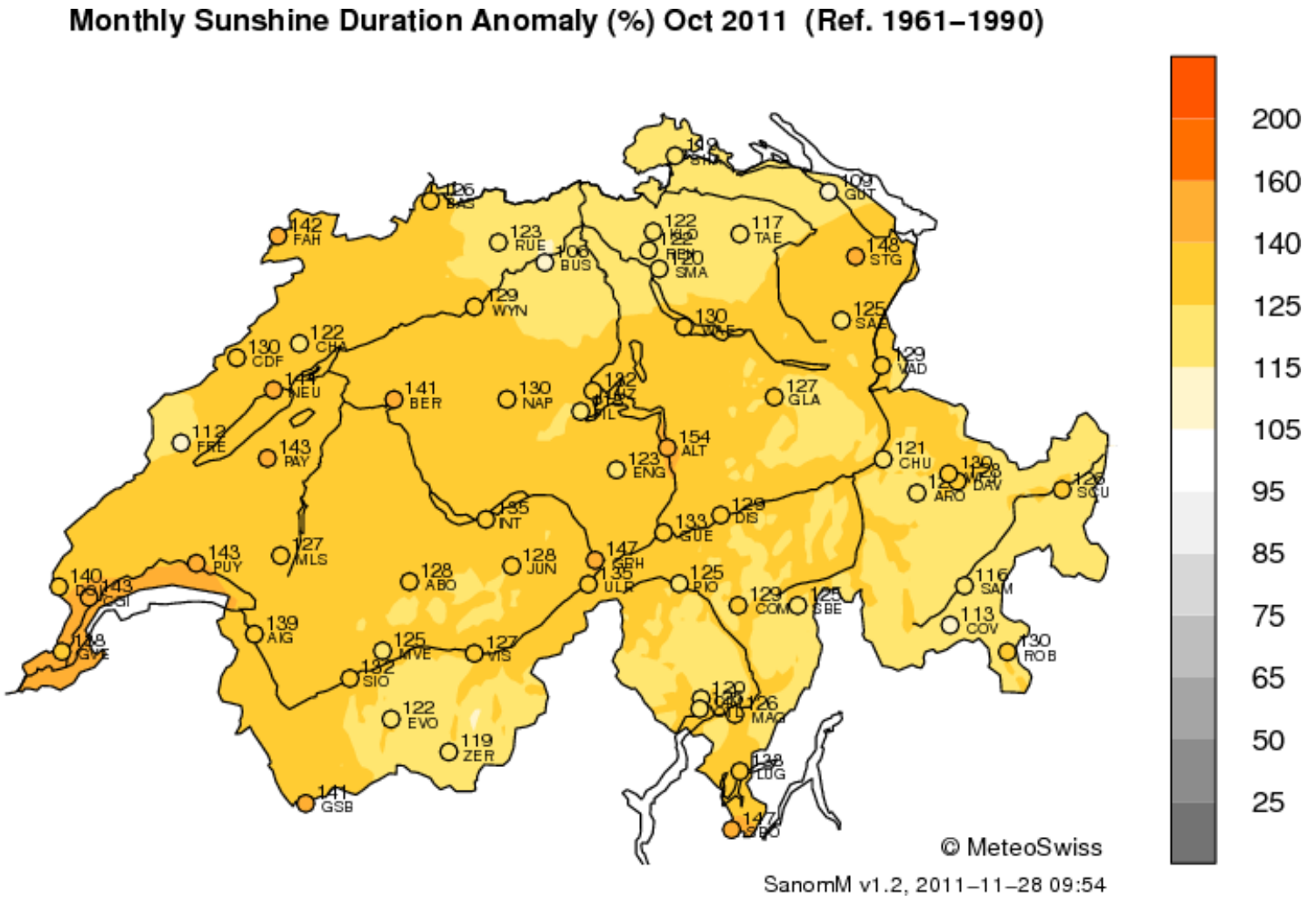


Status: 01.12.2011

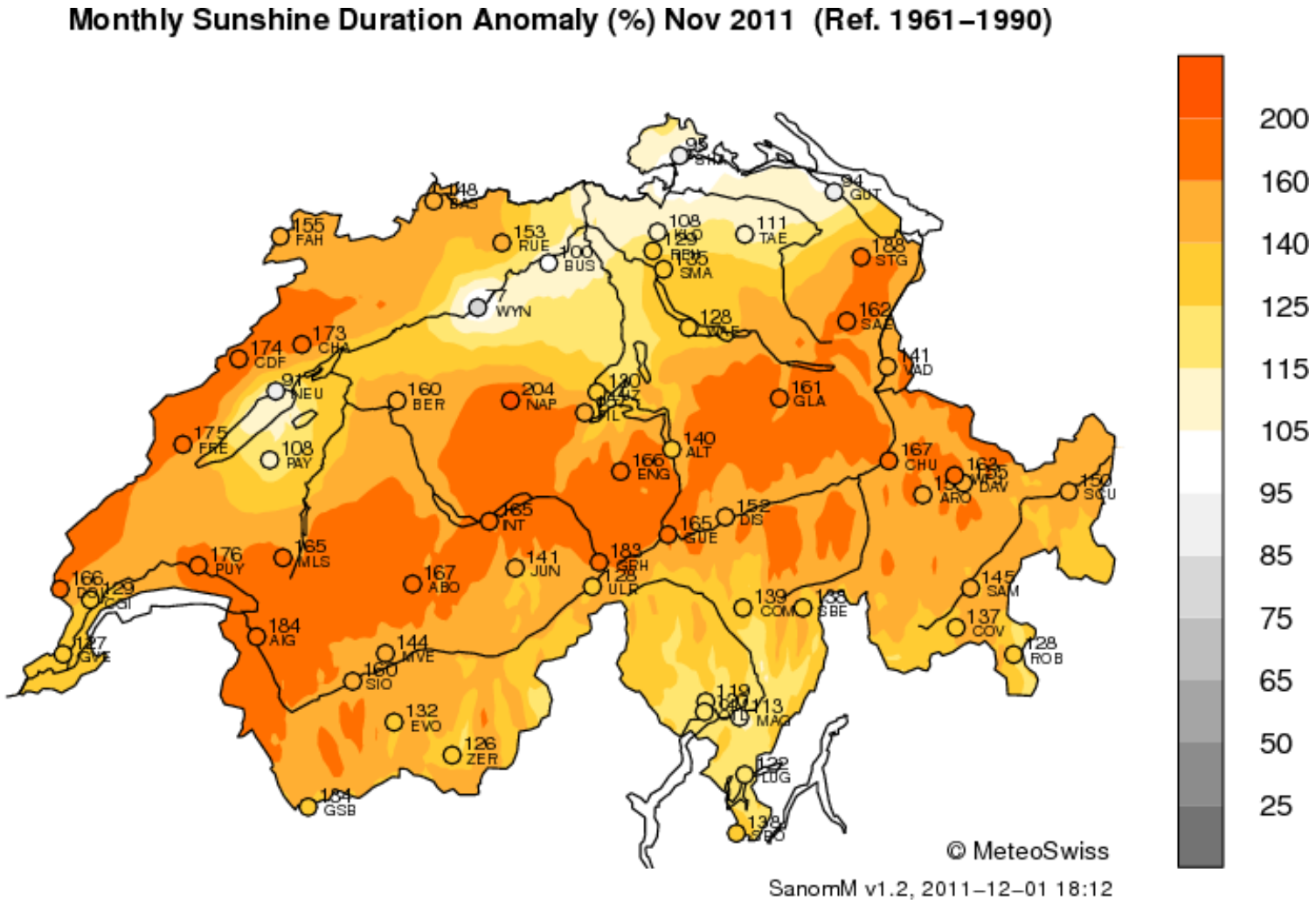
Soleggiamento: anomalia settembre 2011



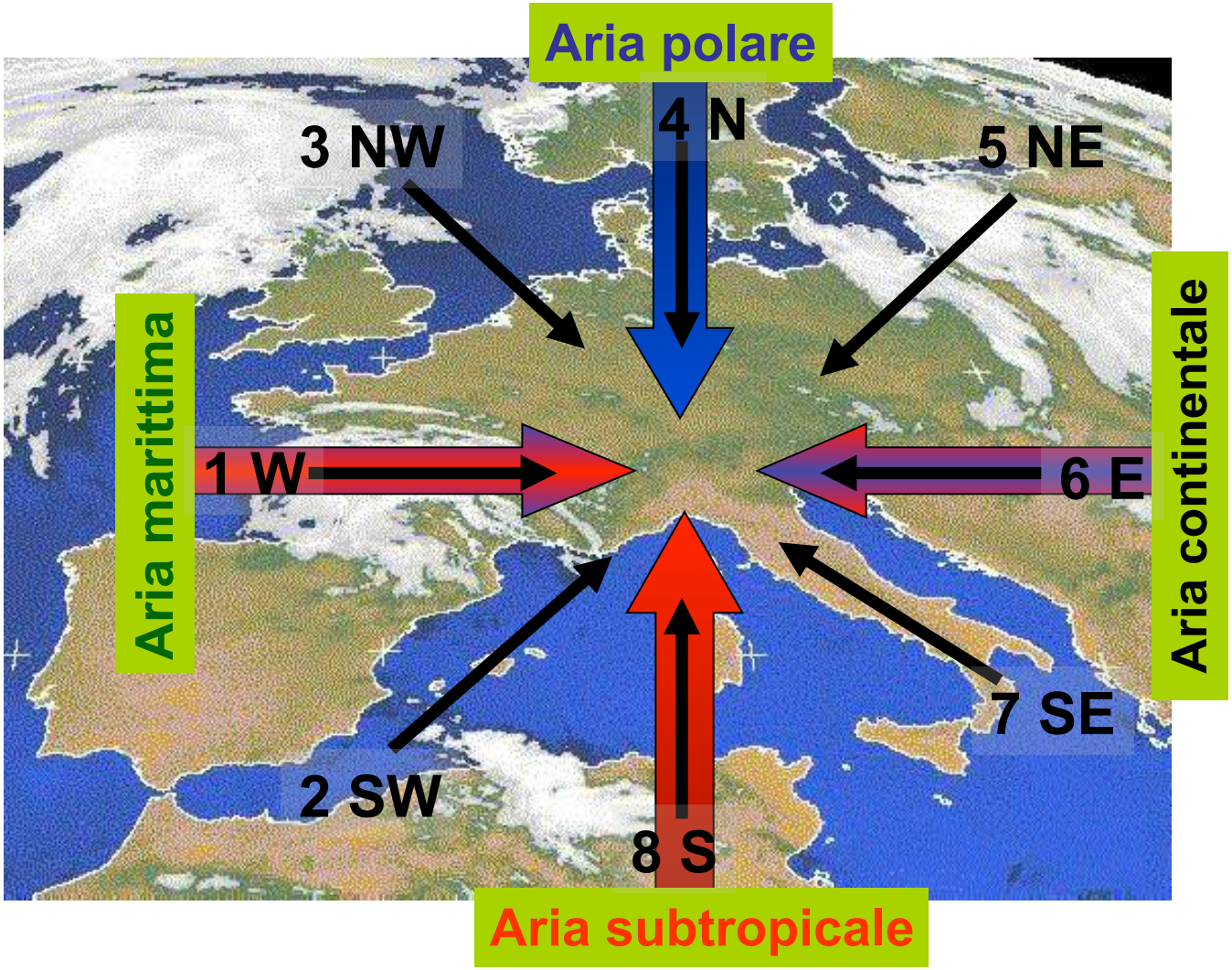
Soleggiamento: anomalia ottobre 2011



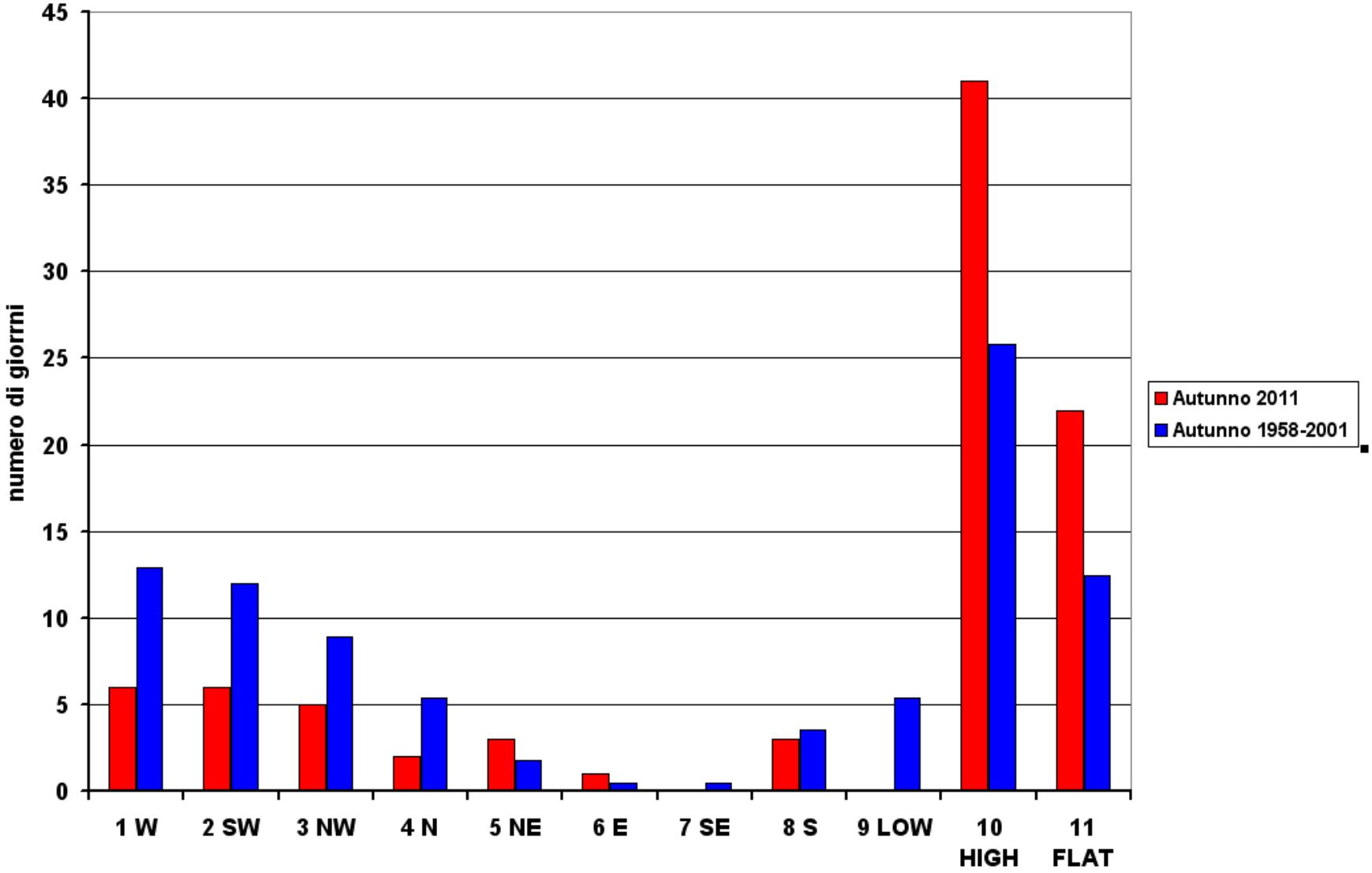
Soleggiamento: anomalia novembre 2011



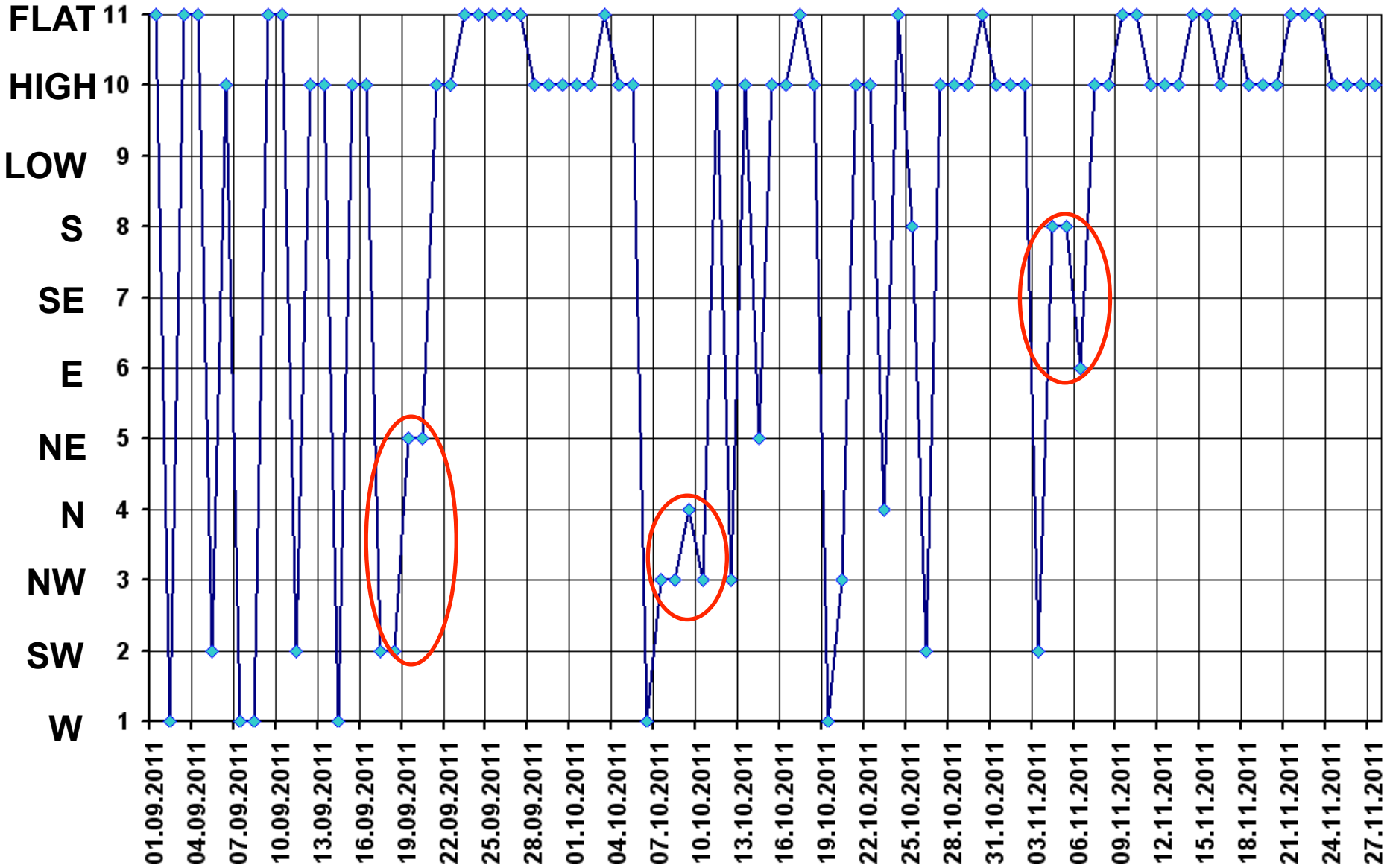
Masse d’aria diverse, tempo diverso, situazioni diverse



La distribuzione delle situazioni



L ‘evoluzione delle situazioni



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DIENSTAG, 29. NOVEMBER 2011, 17:33 UHR

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19. September 2011, 08:02, NZZ Online

Früher Wintereinbruch in den Alpen

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2 / 18 weiter

St. Moritz (Leserreporter)

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Rekord-Schnee in Graubünden

«Ganz St. Moritz ist im Einsatz»

ST. MORITZ GR - Die Nacht brachte Schnee in den Kanton Graubünden. 45 Zentimeter Neuschnee wurden in St. Moritz gemessen. Die Gemeinde versucht nun, Strassen und Schienen wieder frei zu schaufeln.

Aktualisiert um 17:29 | 19.09.2011

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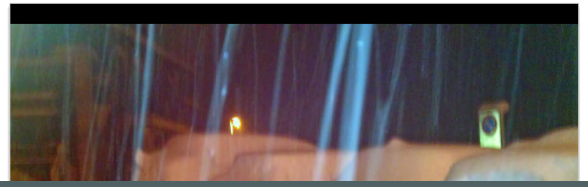
WINTEREINBRUCH IM SEPTEMBER 19. September 2011 09:08; *Akt: 19.09.2011 14:34*

Schneefälle wie seit 17 Jahren nicht mehr

Die Schneefälle im Bündnerland sind rekordverdächtig: St. Moritz bedecken rund 50 Zentimeter, Arosa 40 und Davos 30. Das letzte derartige Extremereignis liegt 17 Jahre zurück.

Bildstrecke im Grossformat »



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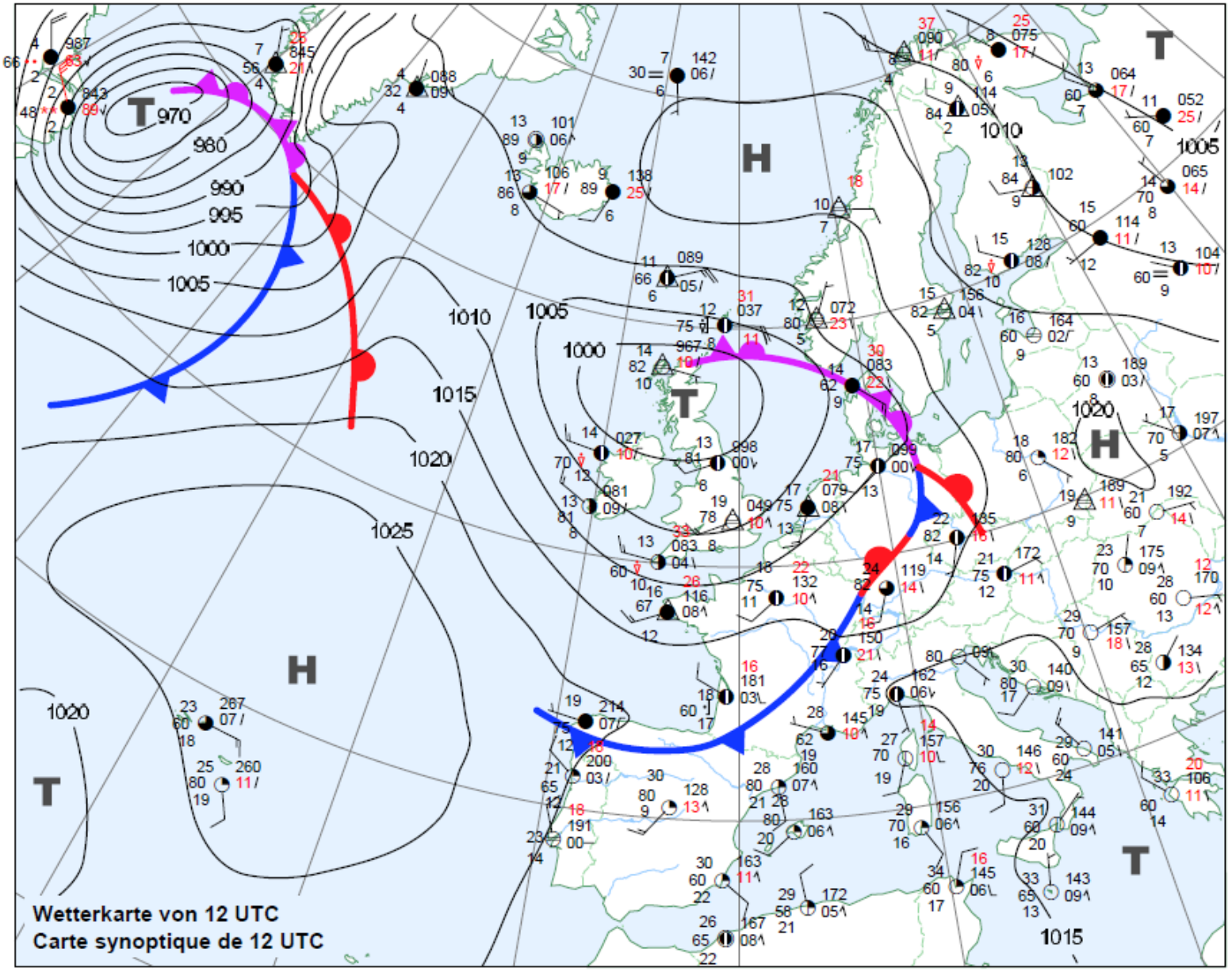
GRAUBÜNDEN | VERMISCHTES

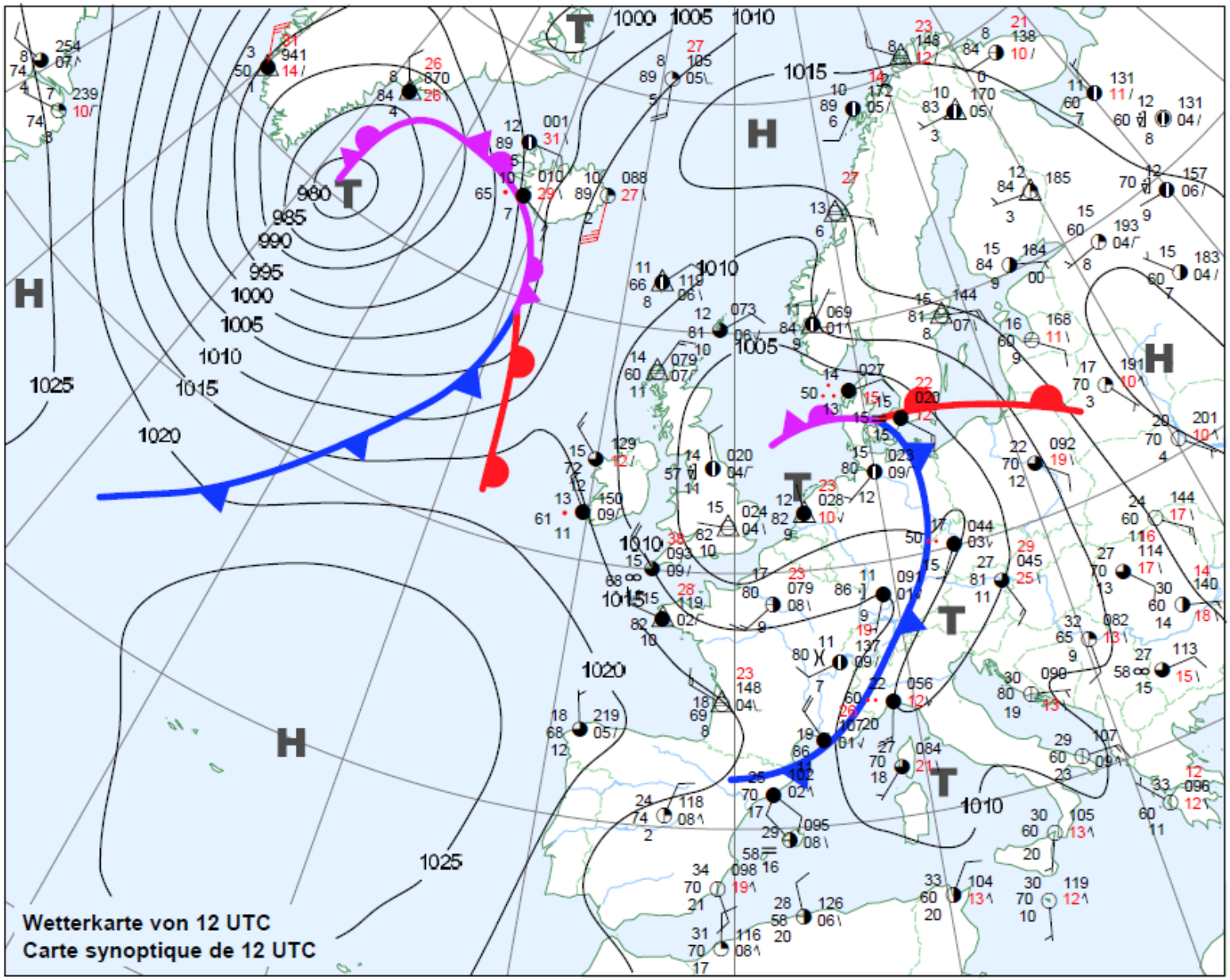
Der Wintereinbruch stoppt Züge und den Individualverkehr

Umgestürzte Bäume haben auf verschiedenen Linien der Rhätischen Bahn zu Unterbrüchen und Betriebsstörungen geführt.

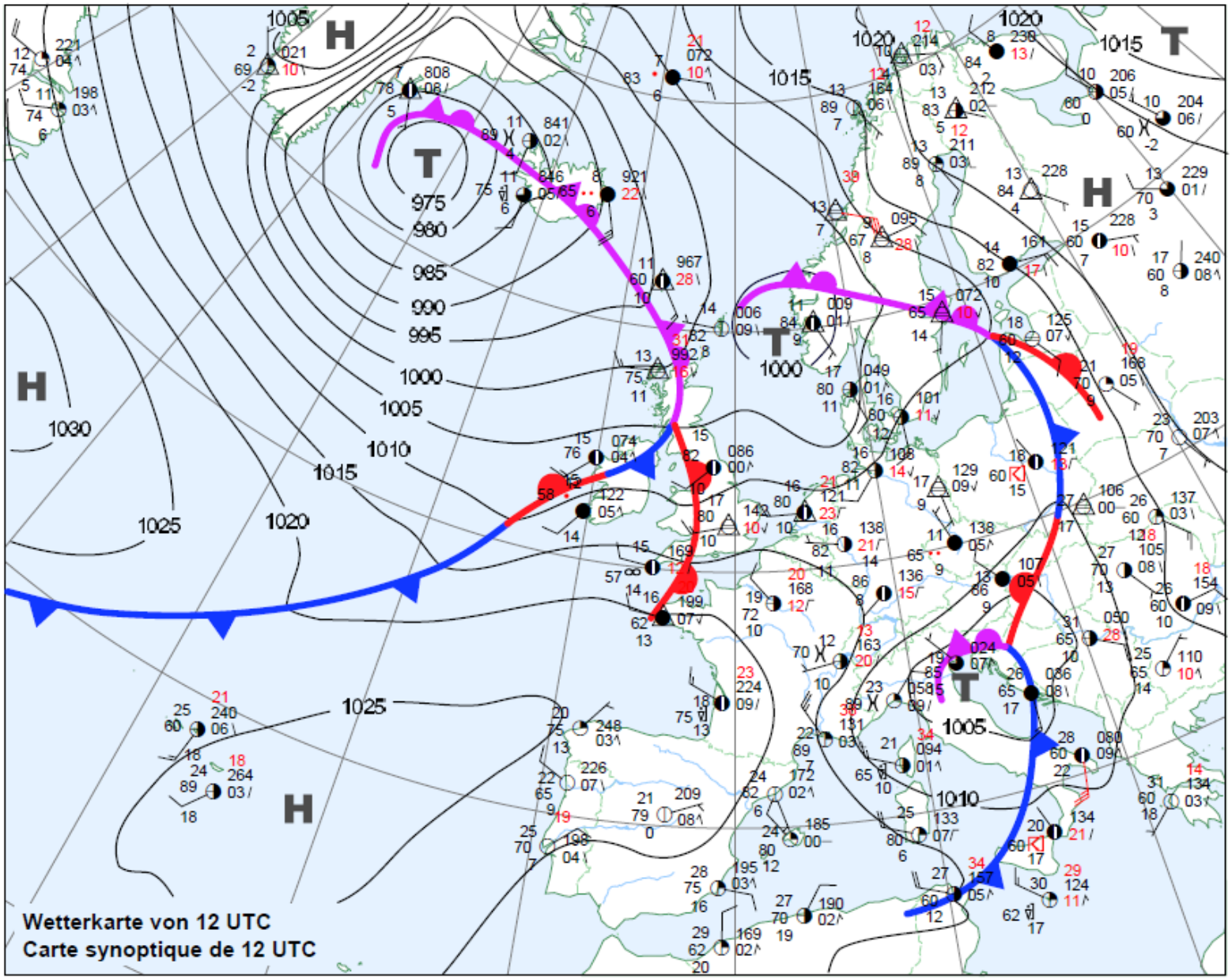
17 settembre 2011: carta al suolo



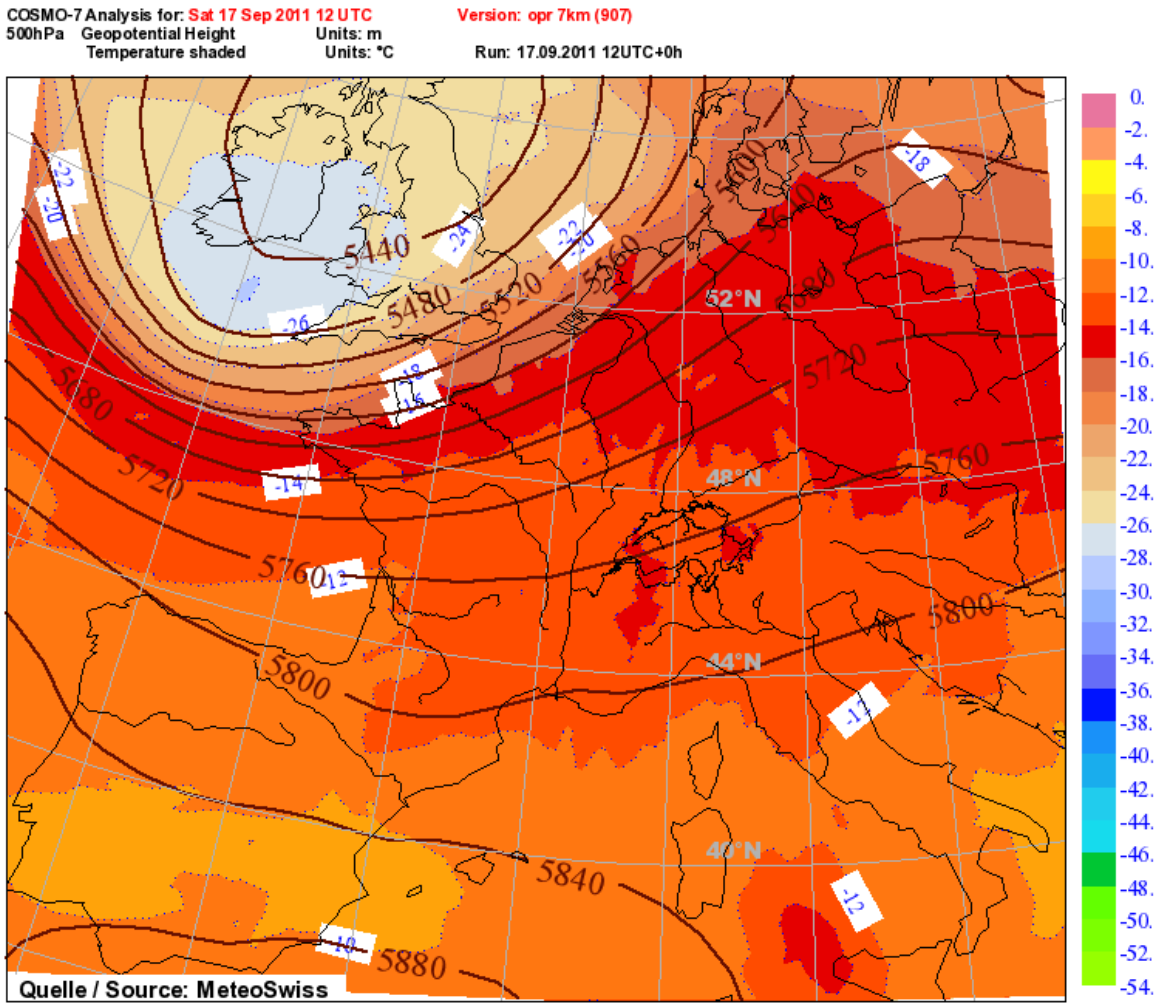
18 settembre 2011: carta al suolo



19 settembre 2011



Z@500 hPa 17 12UTC



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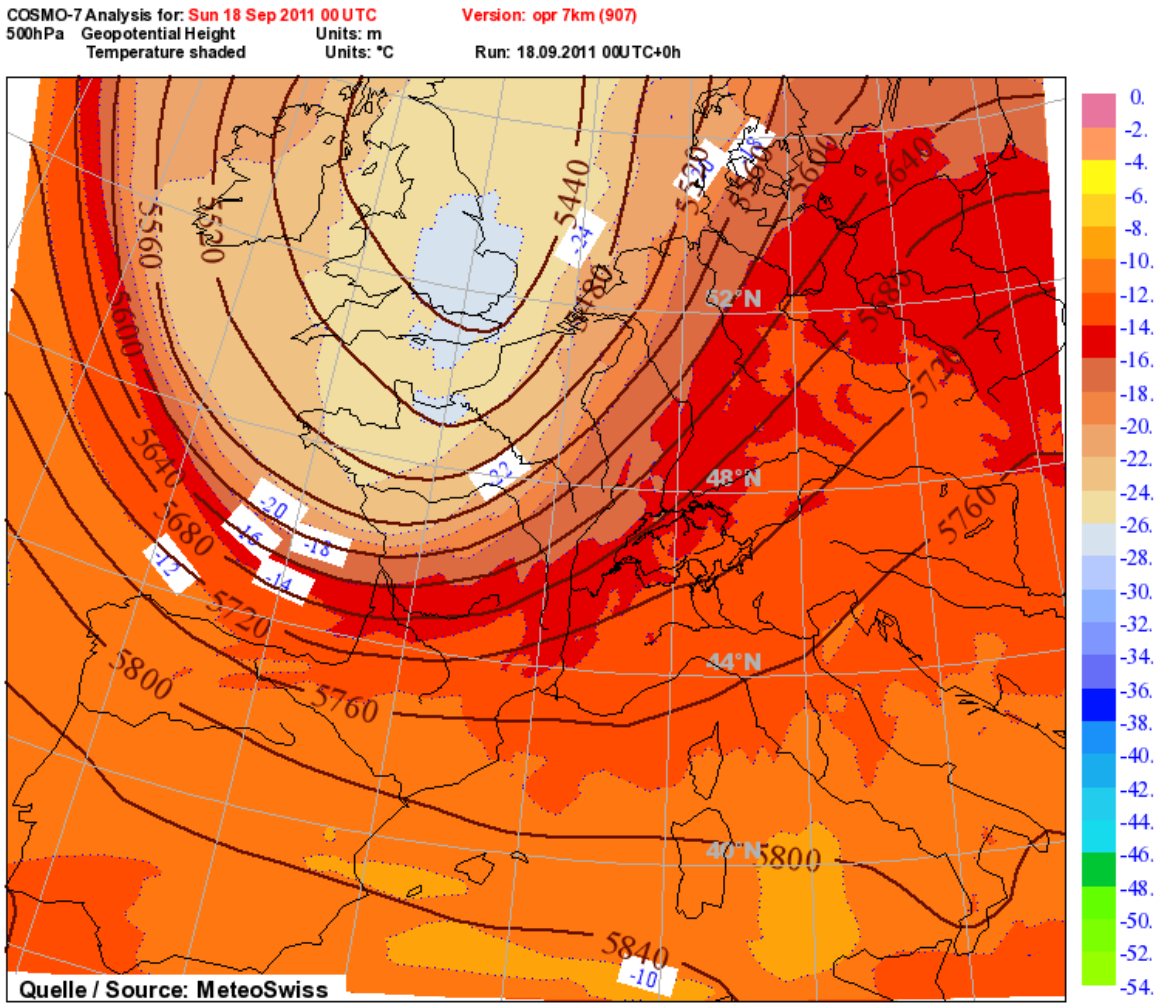

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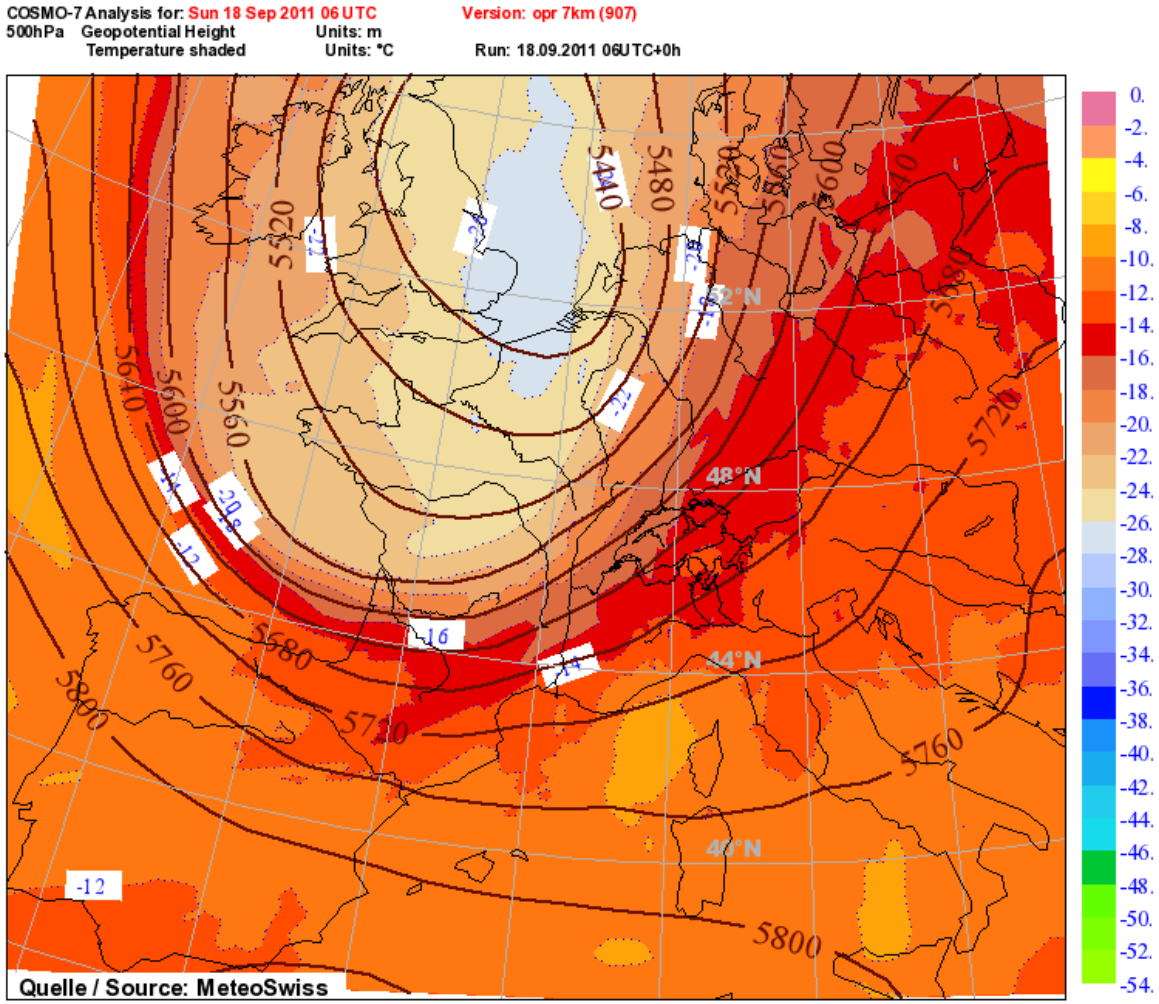

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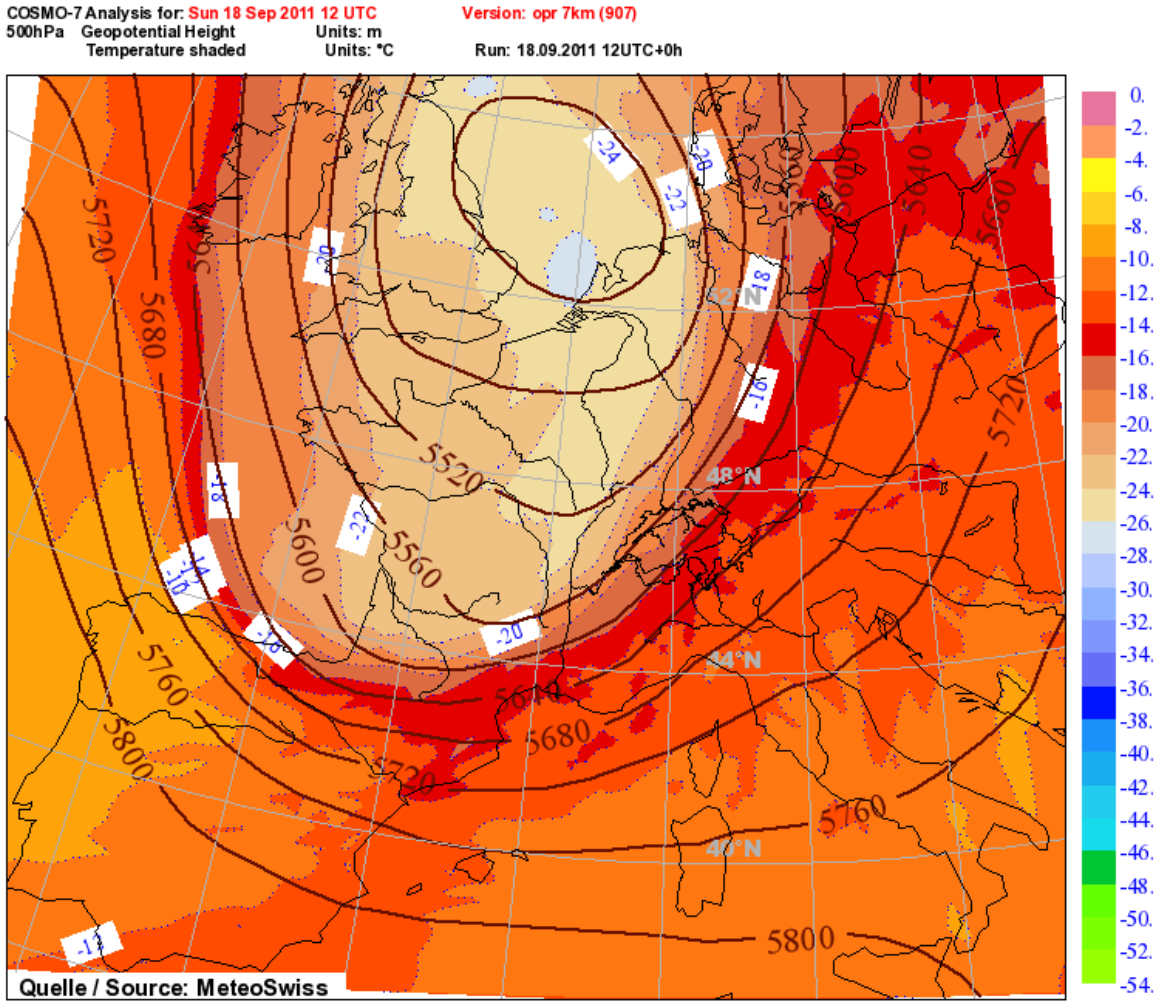

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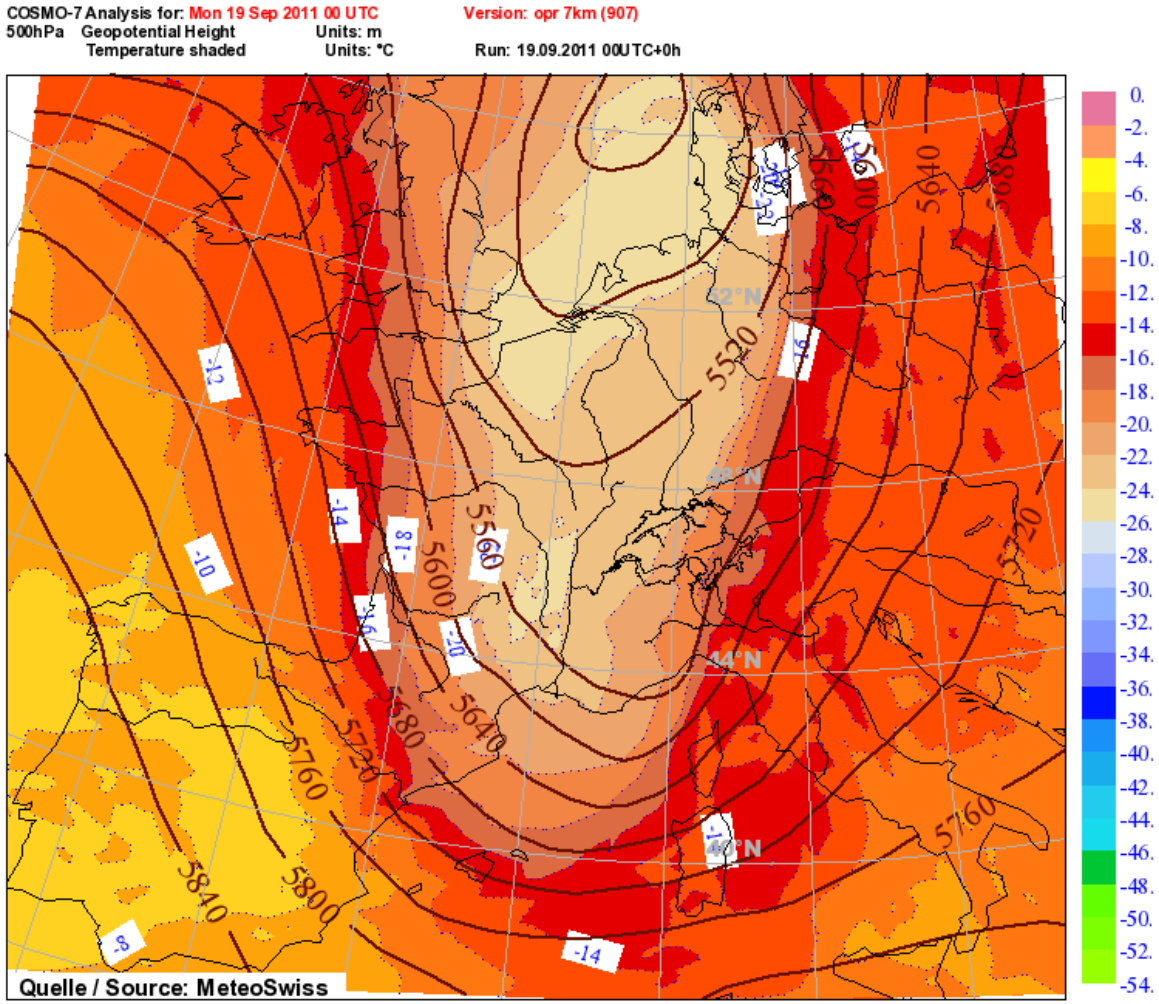

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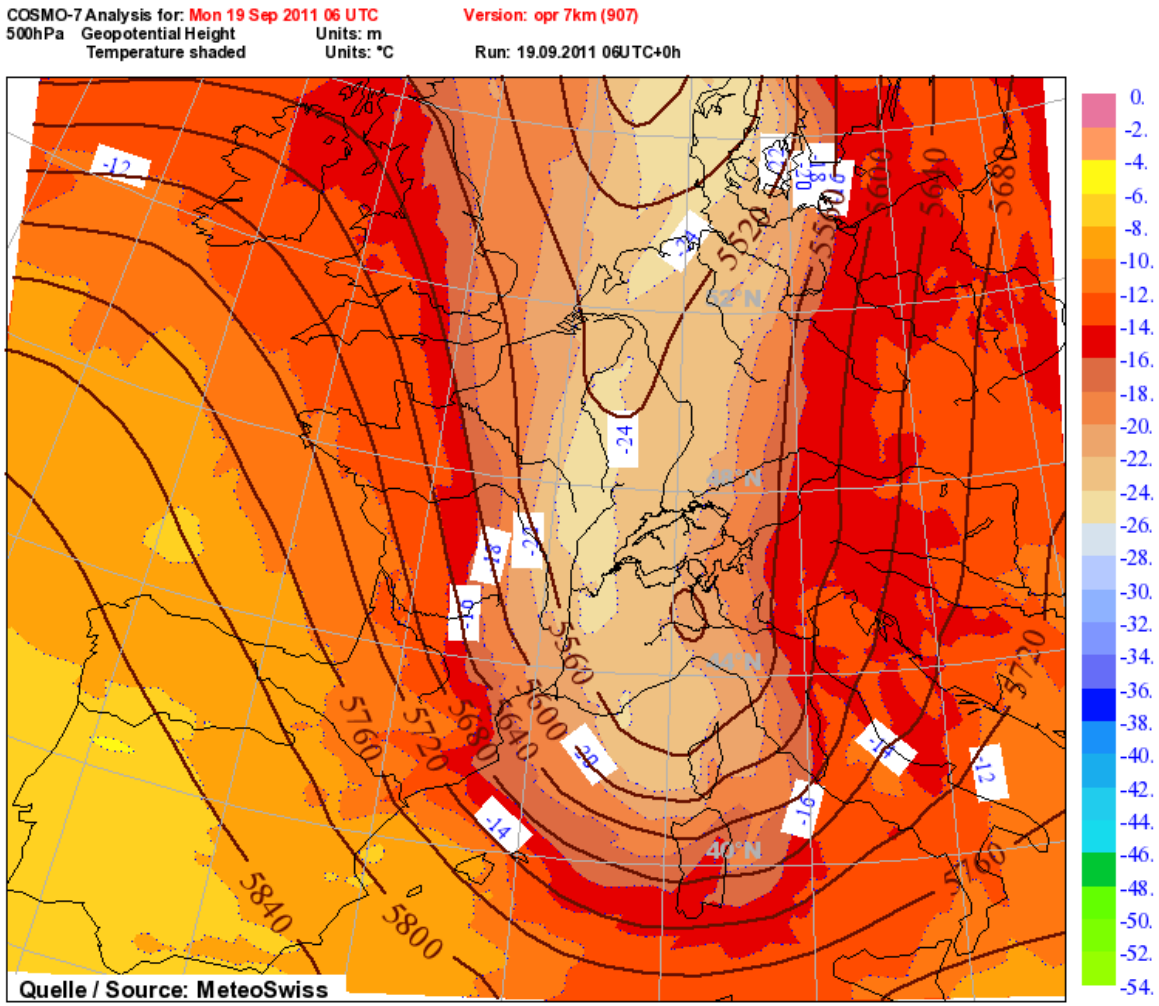
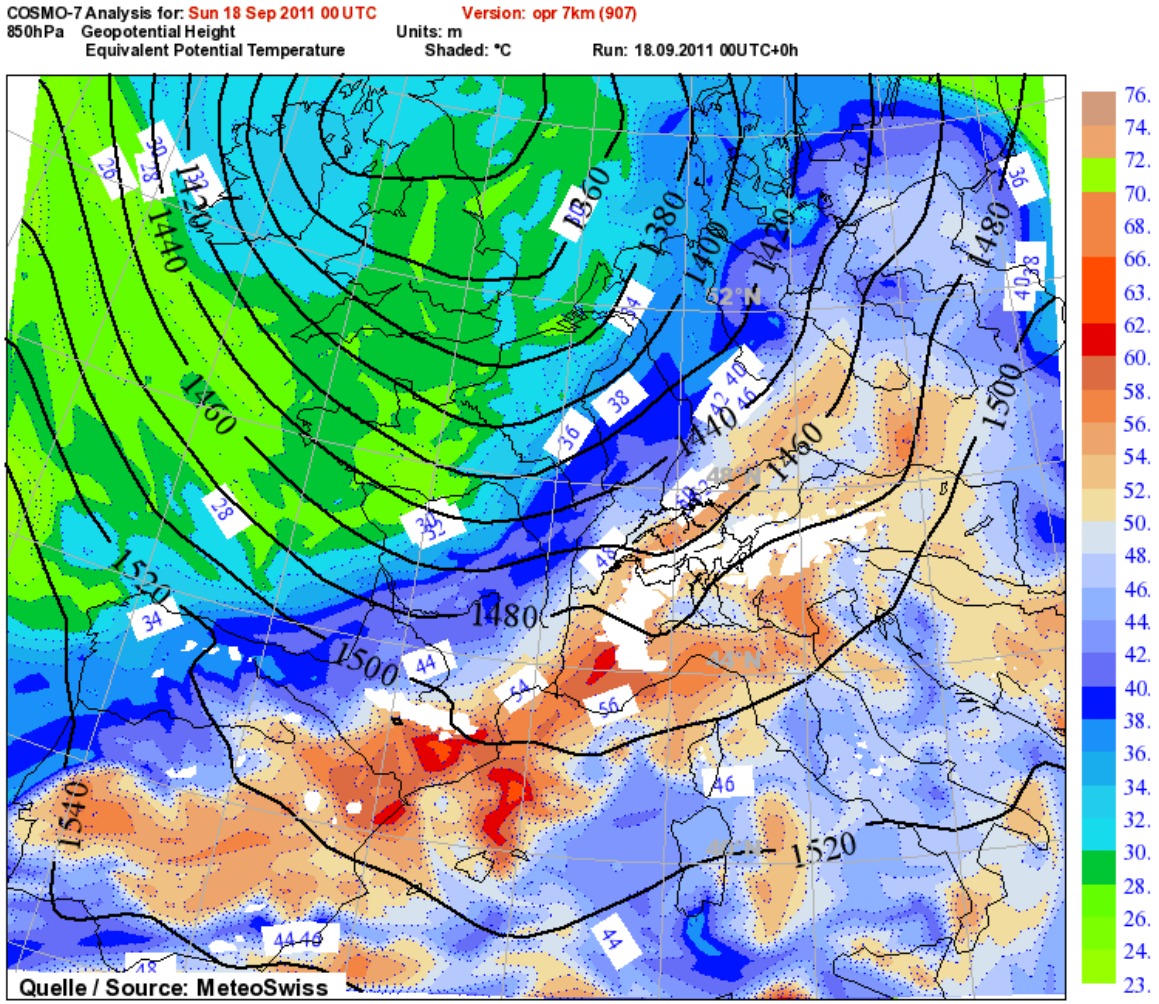


Temperatura equipotenziale 18 00UTC



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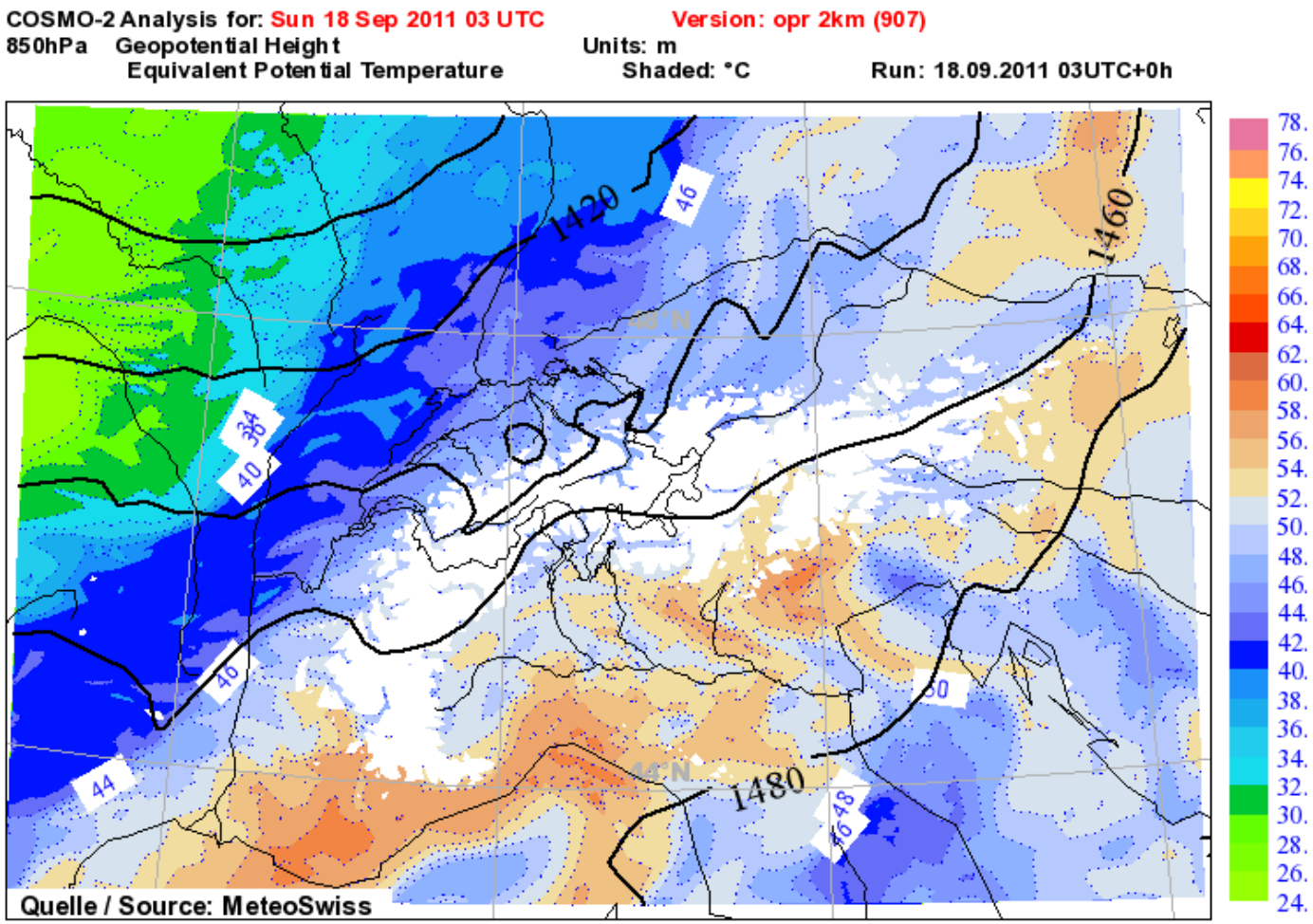

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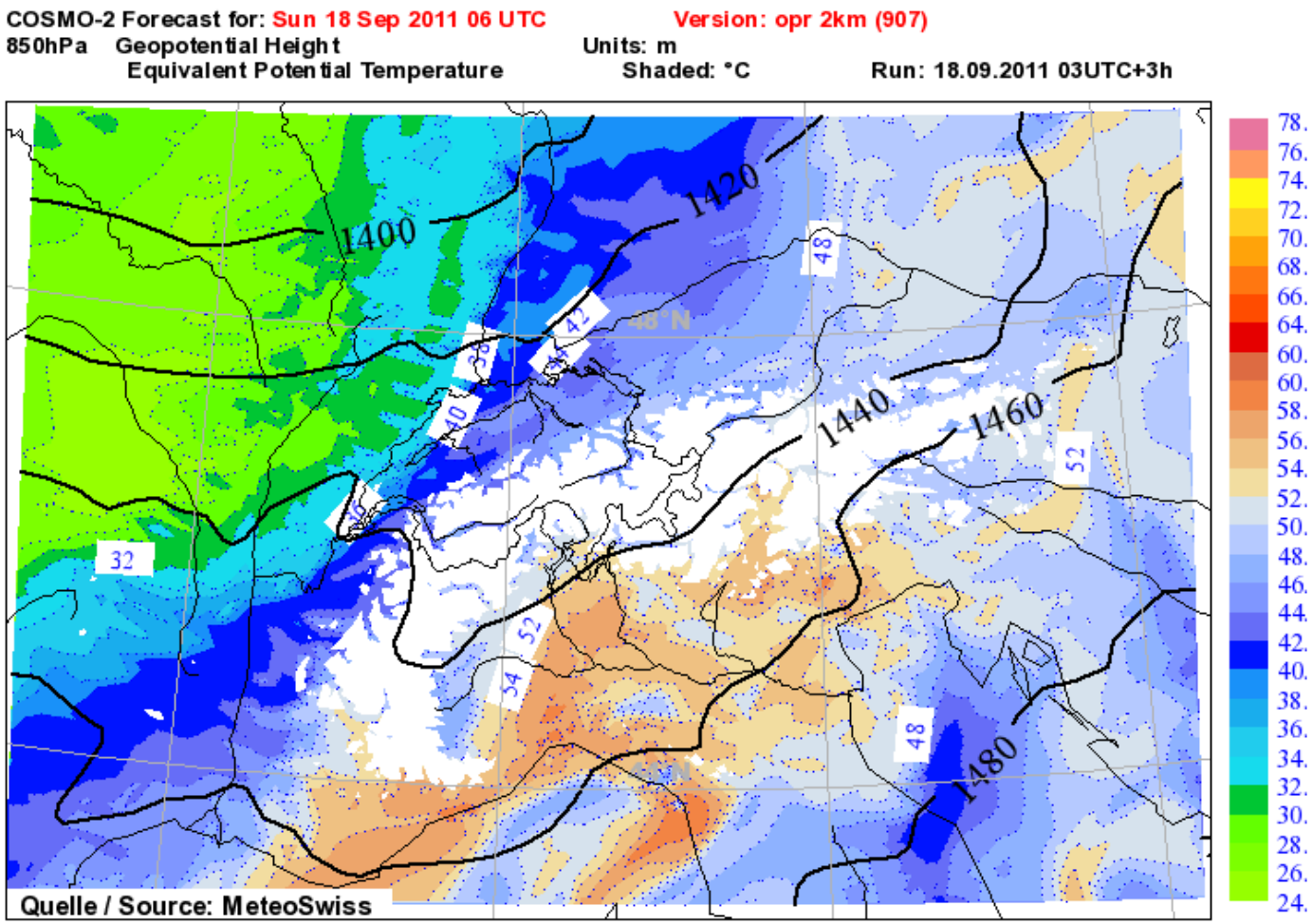

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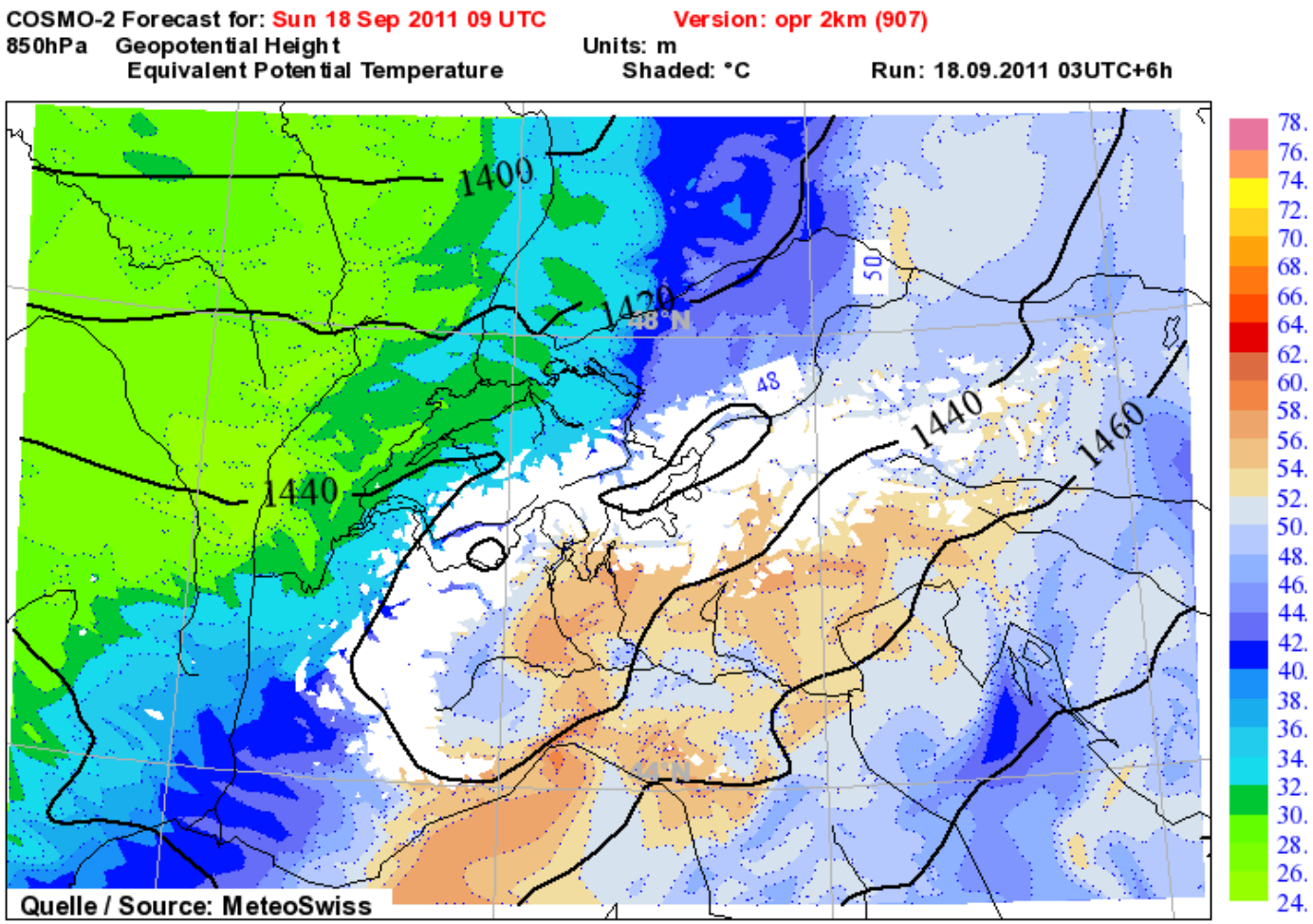

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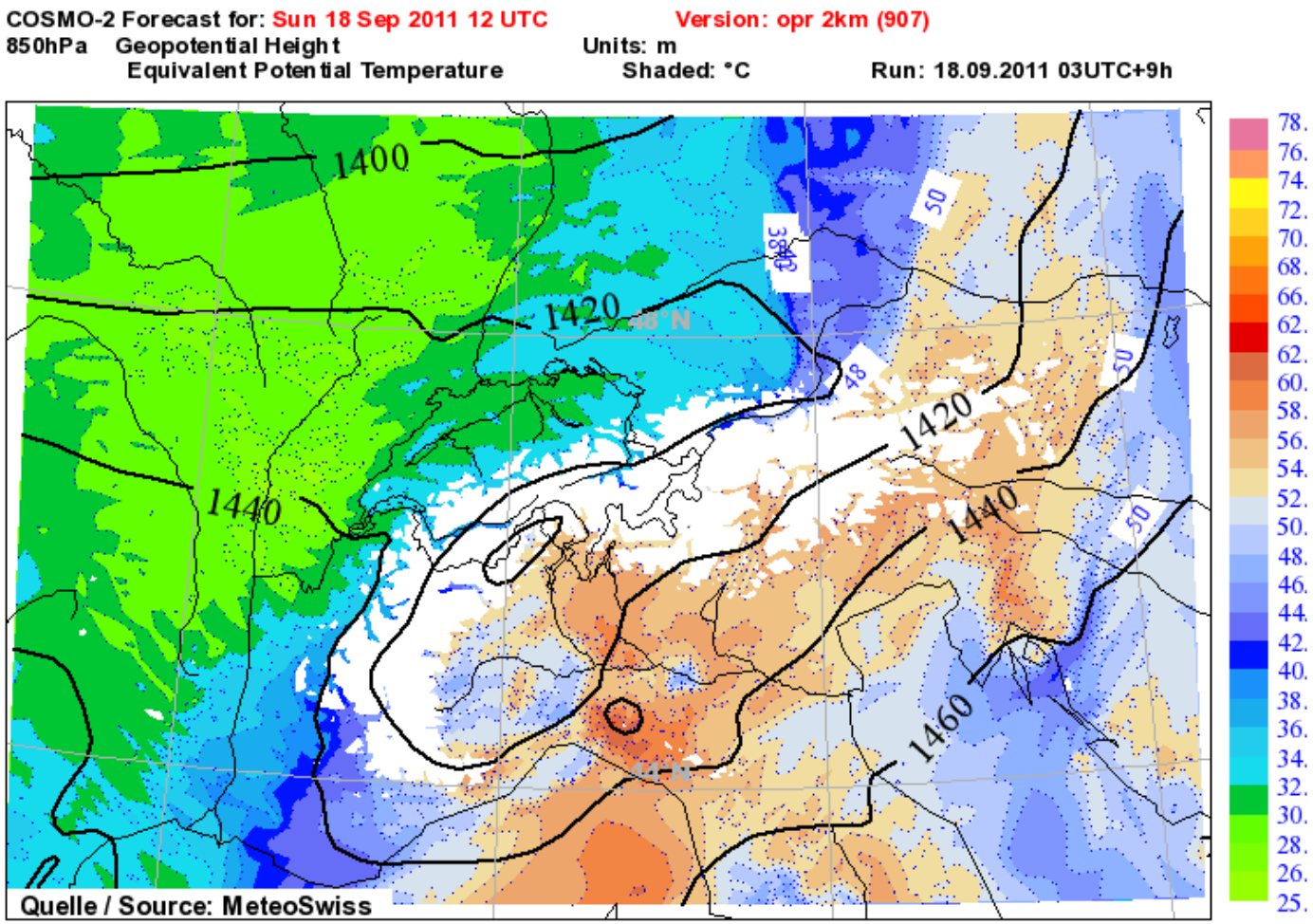

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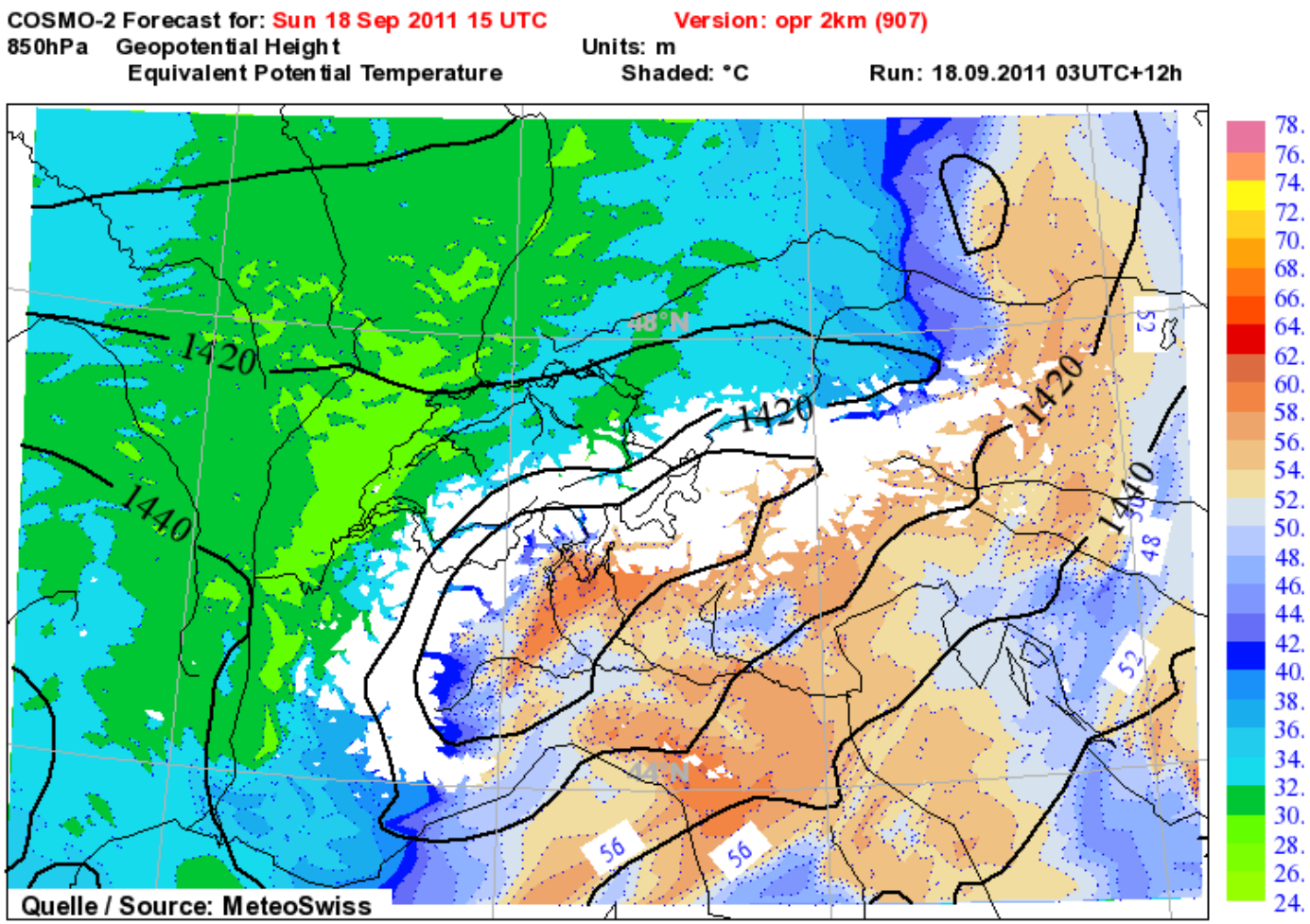

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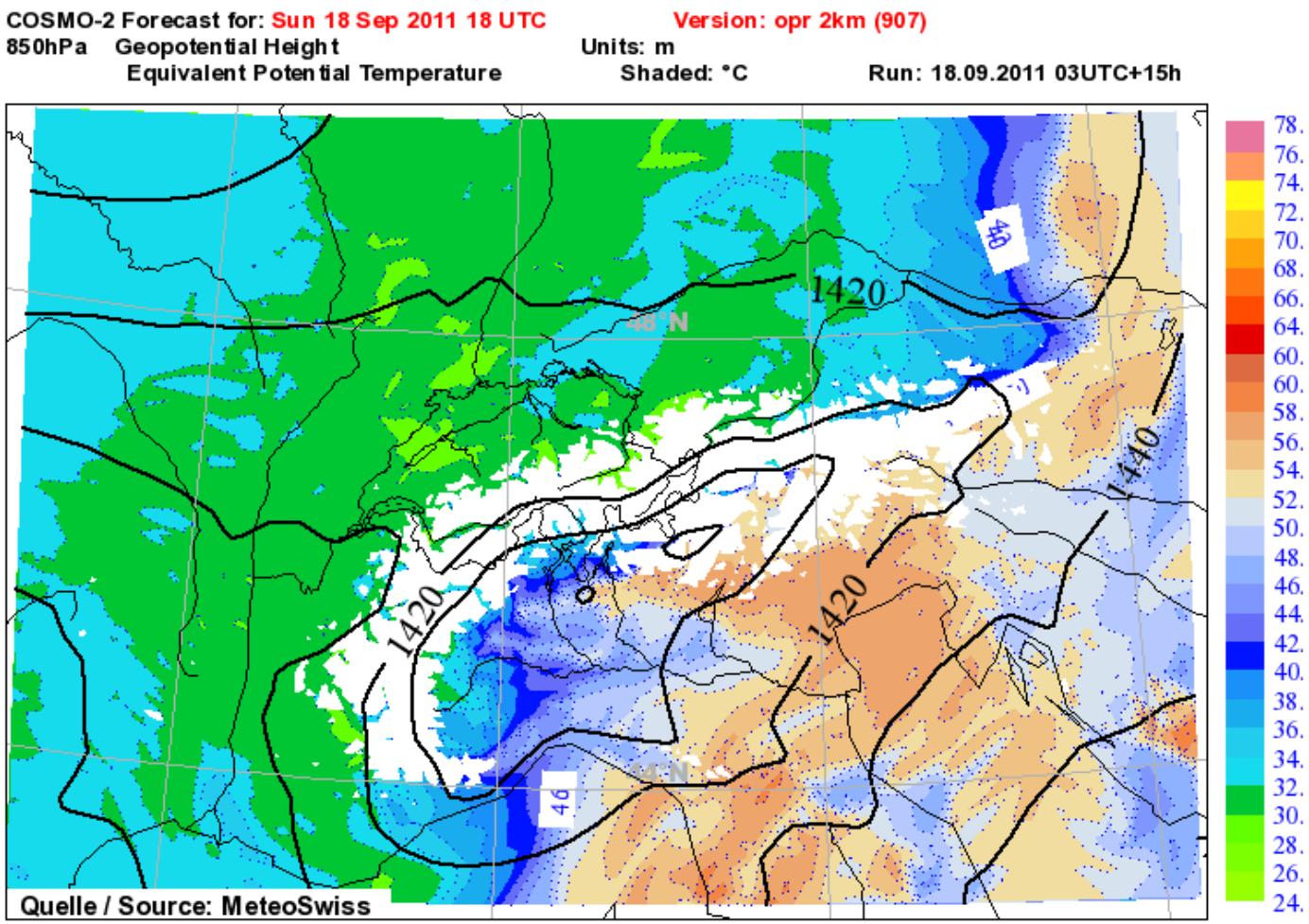

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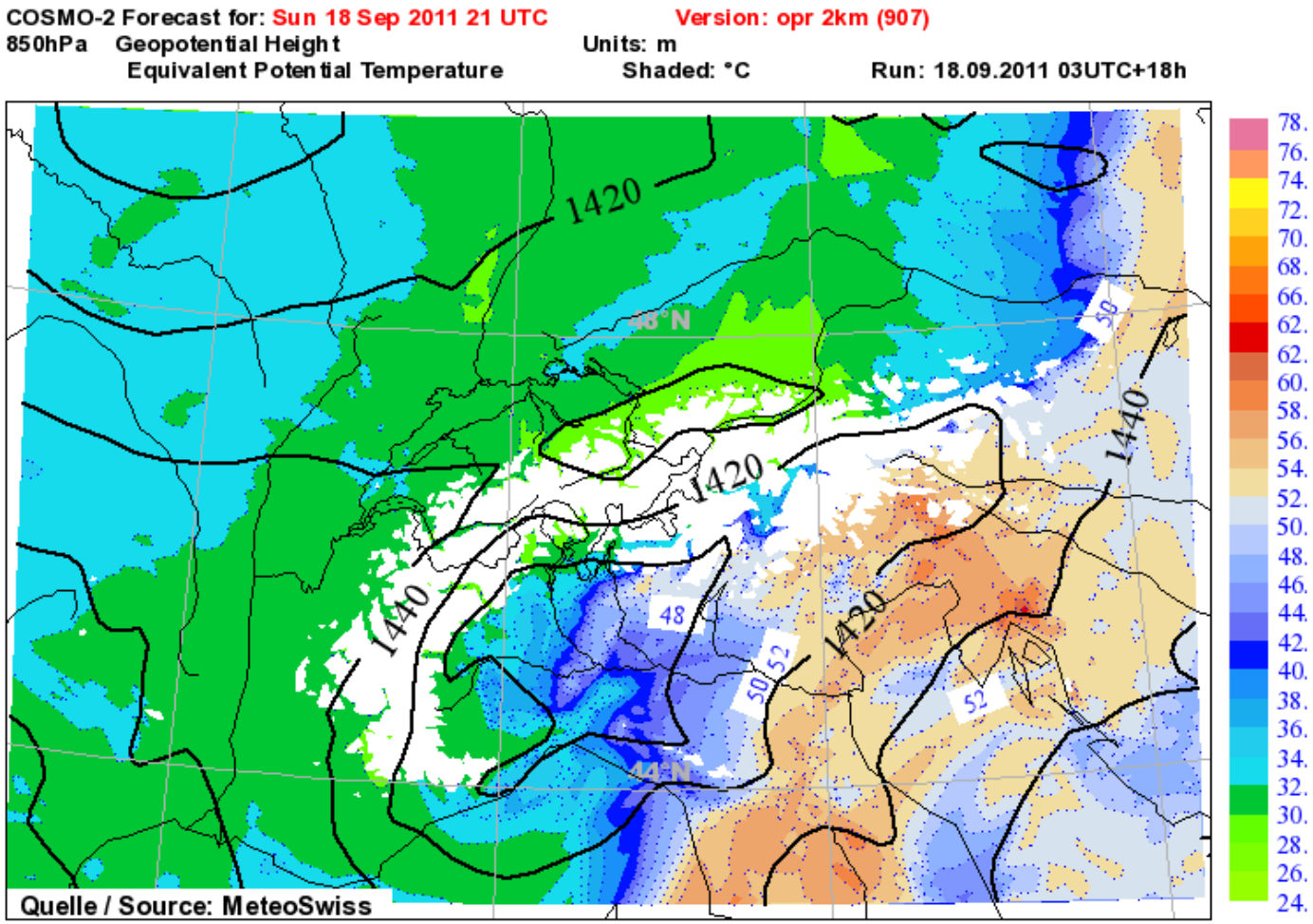
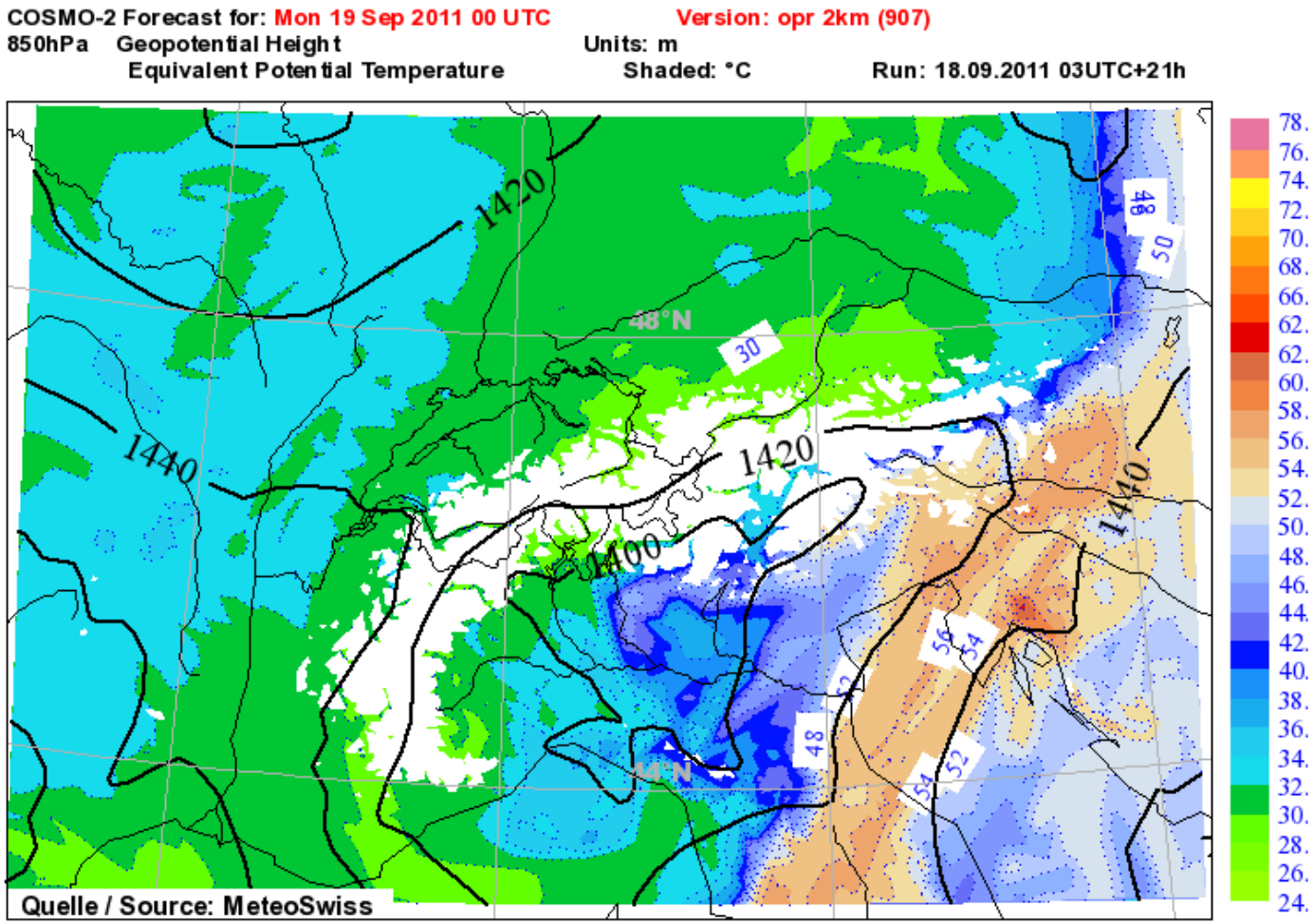
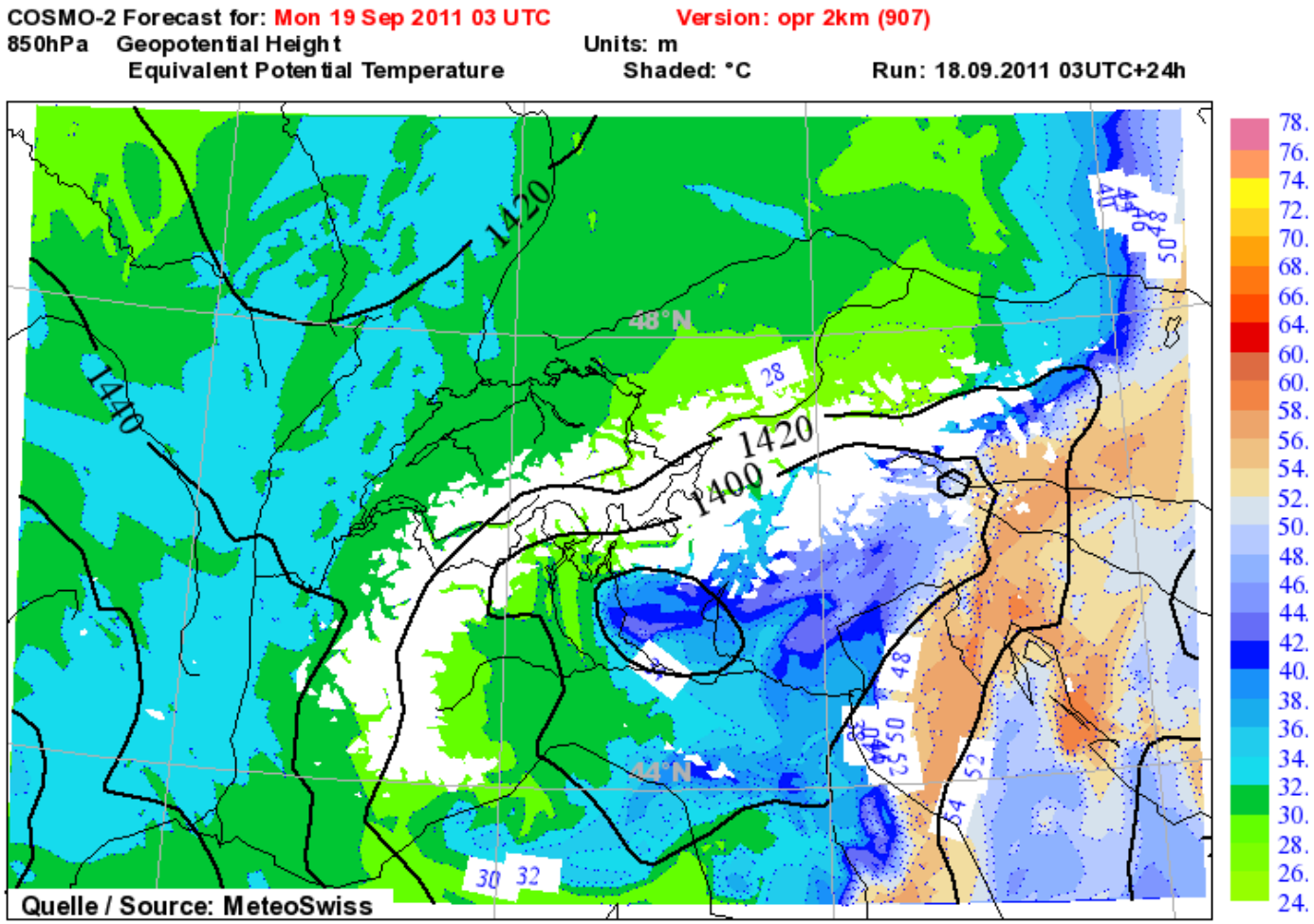


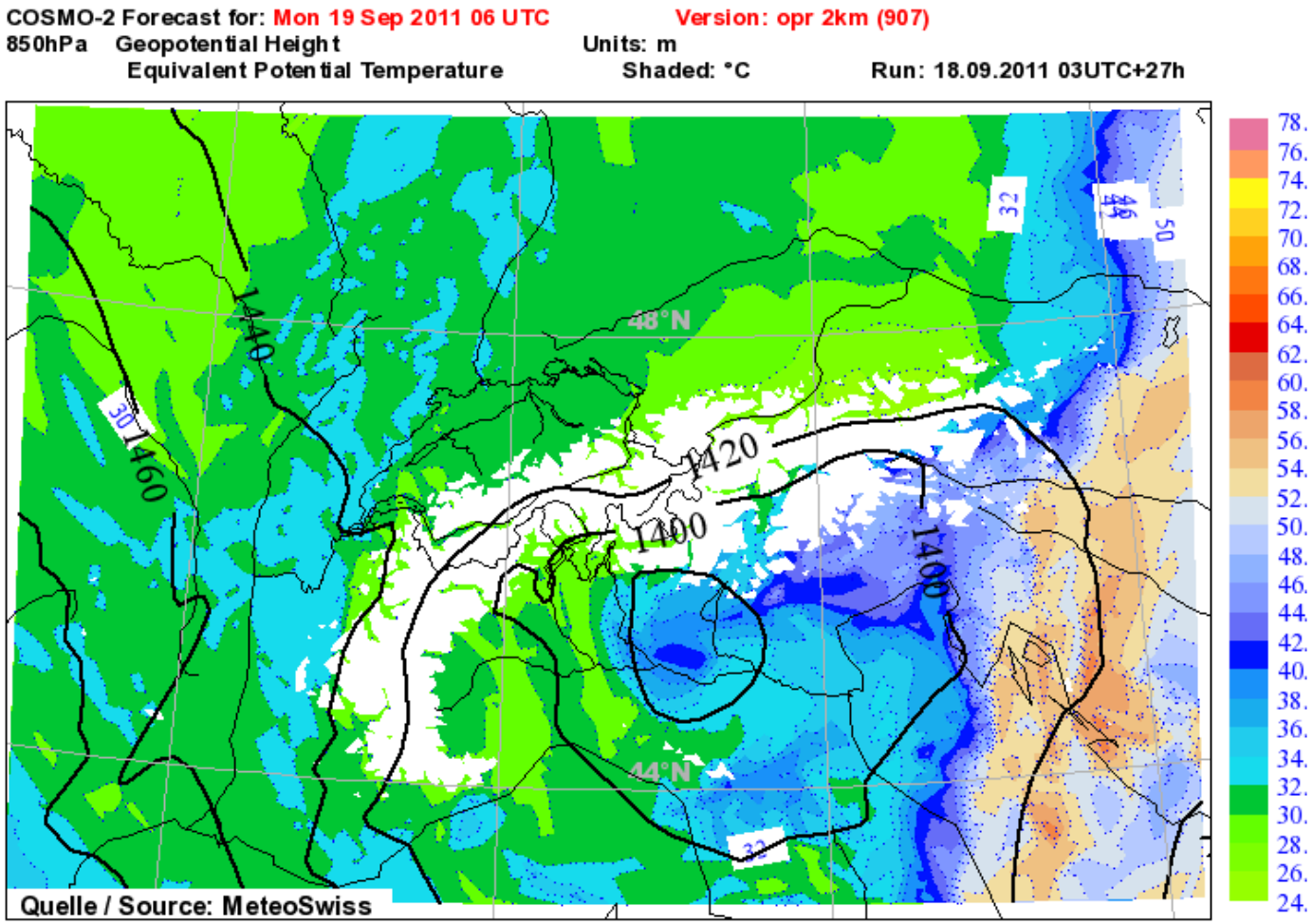
Temperatura equipotenziale 19 00UTC



Temperatura equipotenziale 19 03UTC

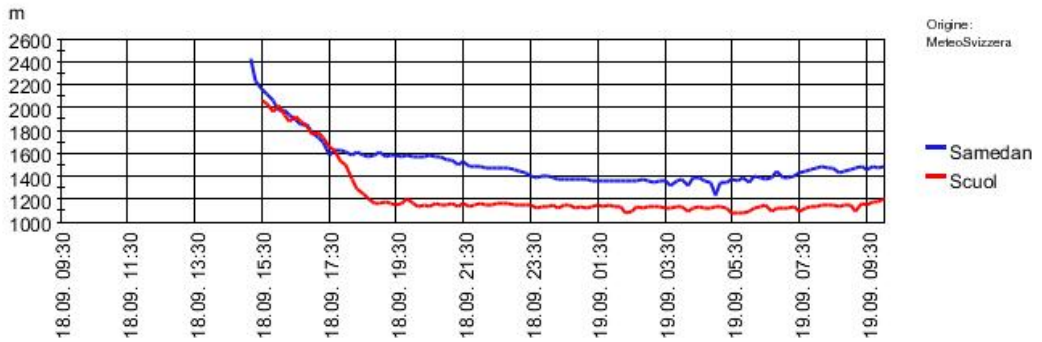


Temperatura equipotenziale 19 06UTC

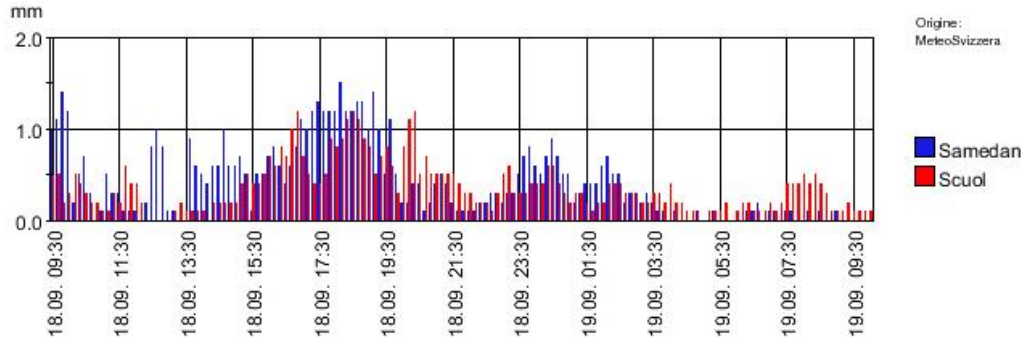


Limite delle nevicate e precipitazioni

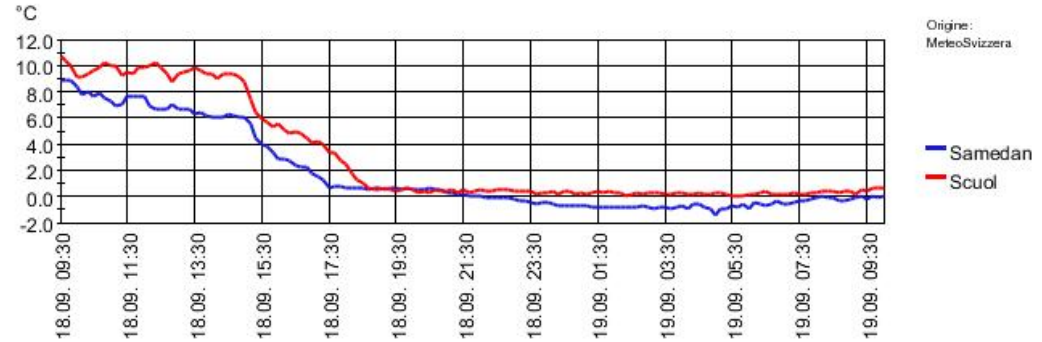
Limite della neve; computato [m] 18.09.2011 09:30 UTC - 19.09.2011 10:00 UTC



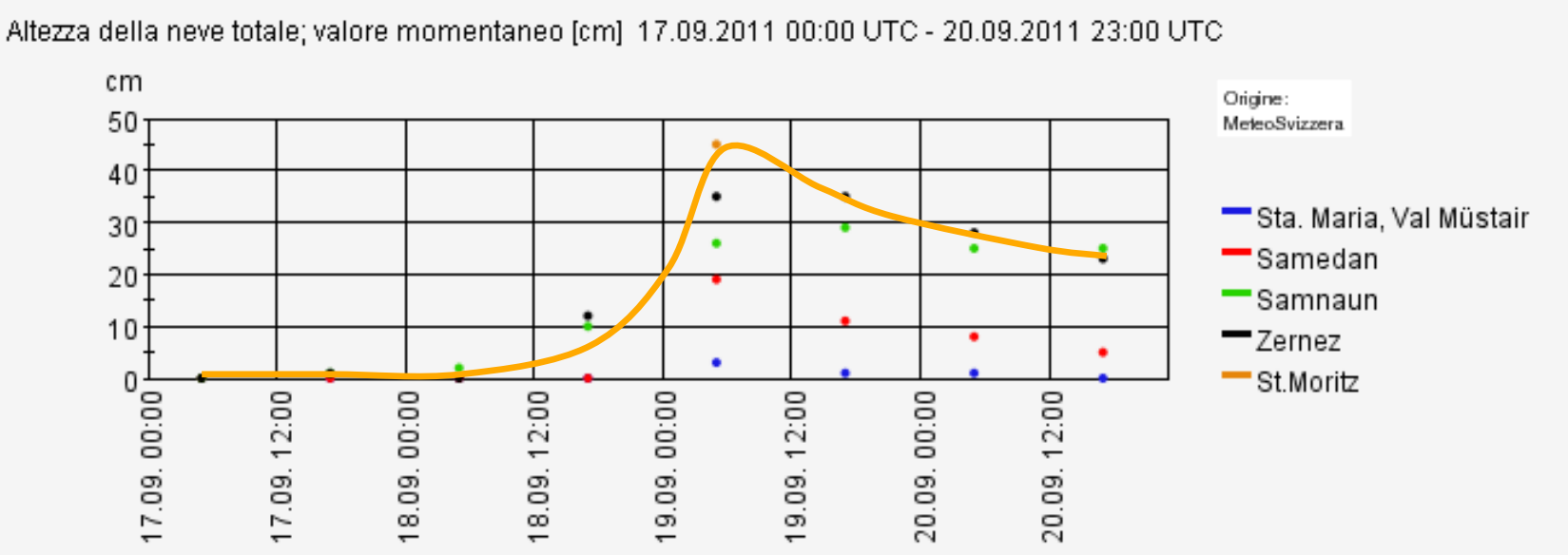
Precipitazioni; somma su dieci minuti [mm] 18.09.2011 09:30 UTC - 19.09.2011 10:00 UTC



Temperatura del wet-bulb (temperatura psicrometro) a 2 m; valore momentaneo [°C] 18.09.2011 09:30 UTC - 19.09.2011 10:00 UT



18-19.09: altezza della neve osservata



18-19.09: accumuli di neve osservati

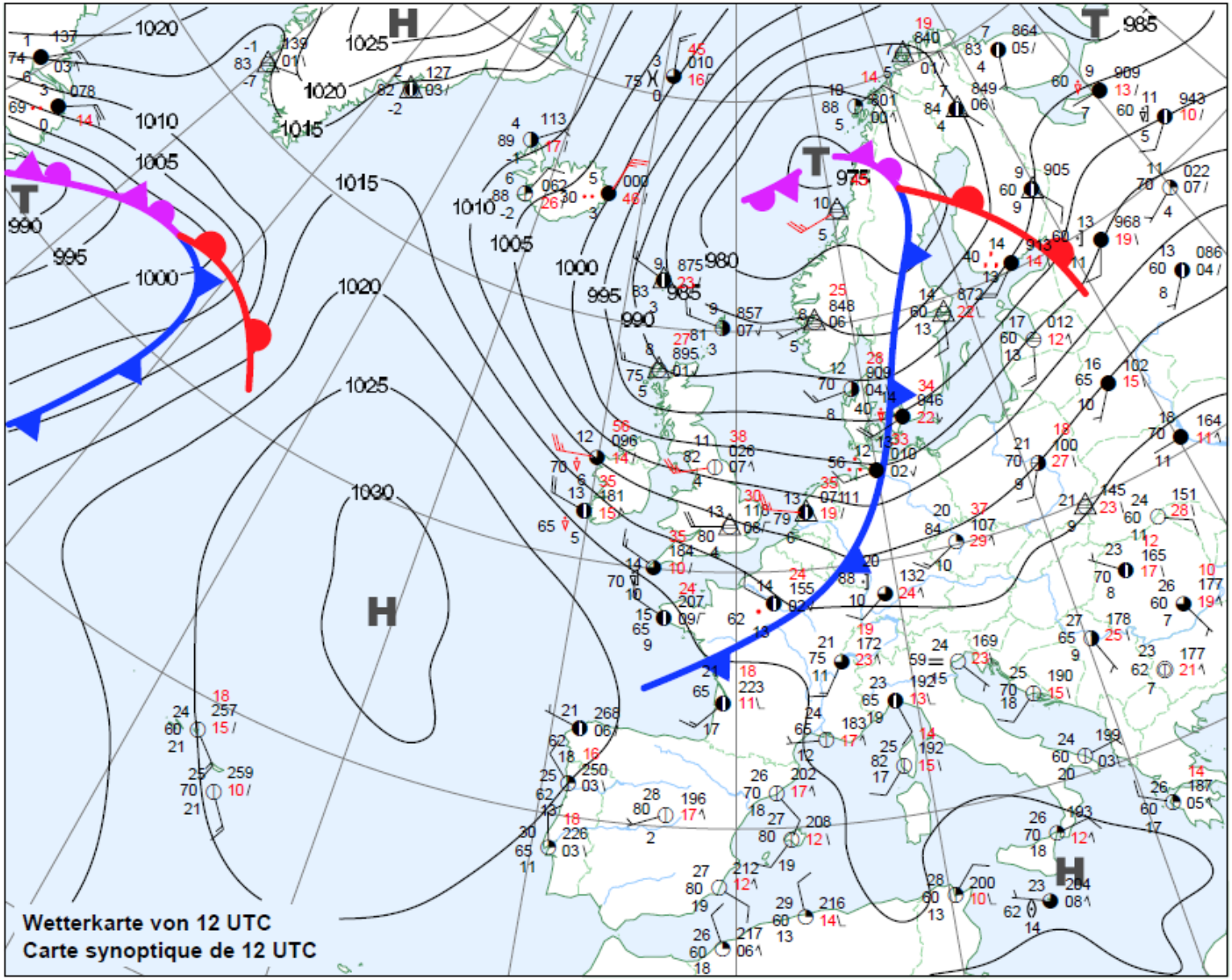
Ort Höhe Messreihe	Sils-Maria 1798 m seit 1864	Arosa 1840 m seit 1890	Sta. Maria 1390 m seit 1931	Davos 1594 m seit 1931
Rang 1	40 cm 30.9.1973	44 cm 21.9.1979	4 cm 30.9.1957	34 cm 21.9.1979
Rang 2	35 cm 18.9.2011 und 21.9.1979	42 cm 11.9.1899	3 cm 18.9.2011 und 30.9.1973	30 cm 26.9.1974
Rang 3		40 cm 19.9.1897		29 cm 13.9.1996
Rang 4	28 cm 19.9.1916	39 cm 18.9.2011	2 cm 10.9.1976 und 28.9.1952	27 cm 18.9.2011

Ort	**Höhe**	**Neuschneehöhen im Vergleich**		
Ort	Höhe	18.9.2011	21.9.1979	5.9.1984
St. Moritz	1890 m	45 cm	----	----
Weissfluhjoch	2540 m	41 cm	42 cm	39 cm
Innerglas	1820 m	40 cm	----	----
Arosa	1818 m	39 cm	44 cm	36 cm
Sils-Maria	1798 m	35 cm	35 cm	7 cm
Buffalora	1970 m	34 cm	25 cm	9 cm
Motta Naluns	2150 m	32 cm	----	----
Samedan	1750 m	29 cm	----	----
Davos	1560 m	27 cm	34 cm	25 cm
Splügen	1457 m	19 cm	----	----
Innerferrera	1460 m	18 cm	----	----
Sedrun	1420 m	5 cm	5 cm	24 cm
Sta. Maria	1390 m	3 cm	0 cm	0 cm
Chur	556 m	0 cm	6 cm	4 cm

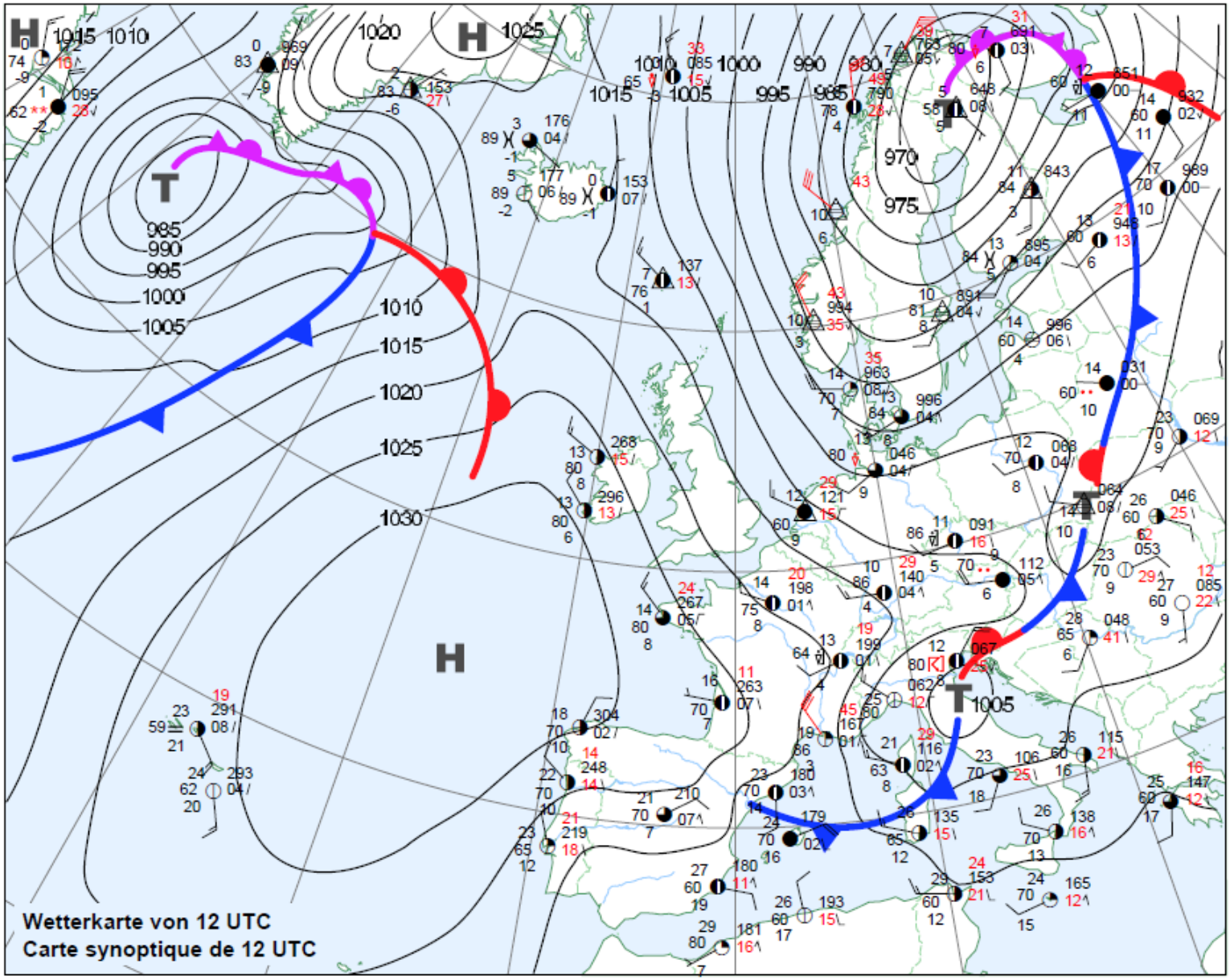
7-10.10.2011 forte situazione da nord: estate-inverno-estate

Foto: Luca Silvanti

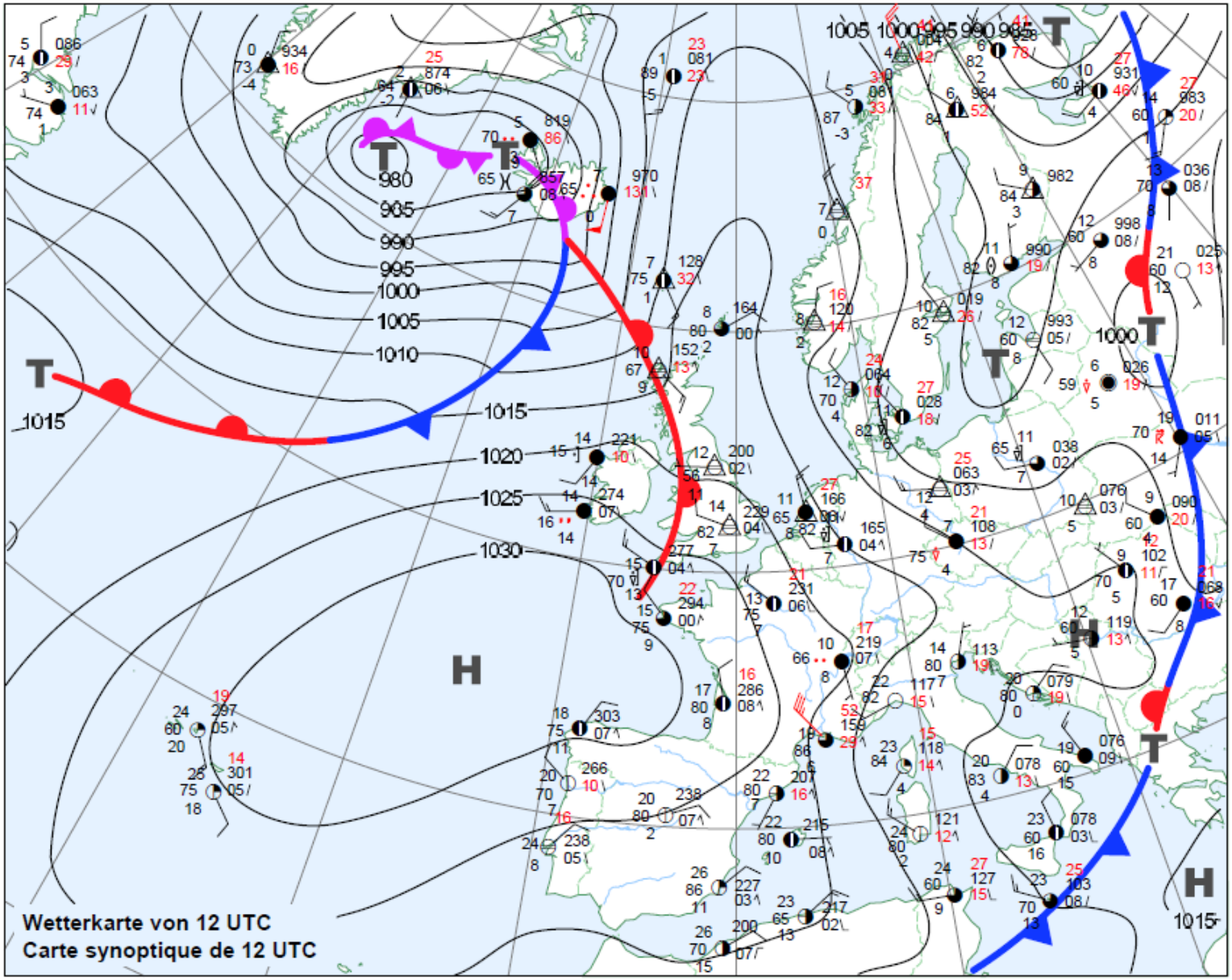
6 ottobre 2011: carta al suolo



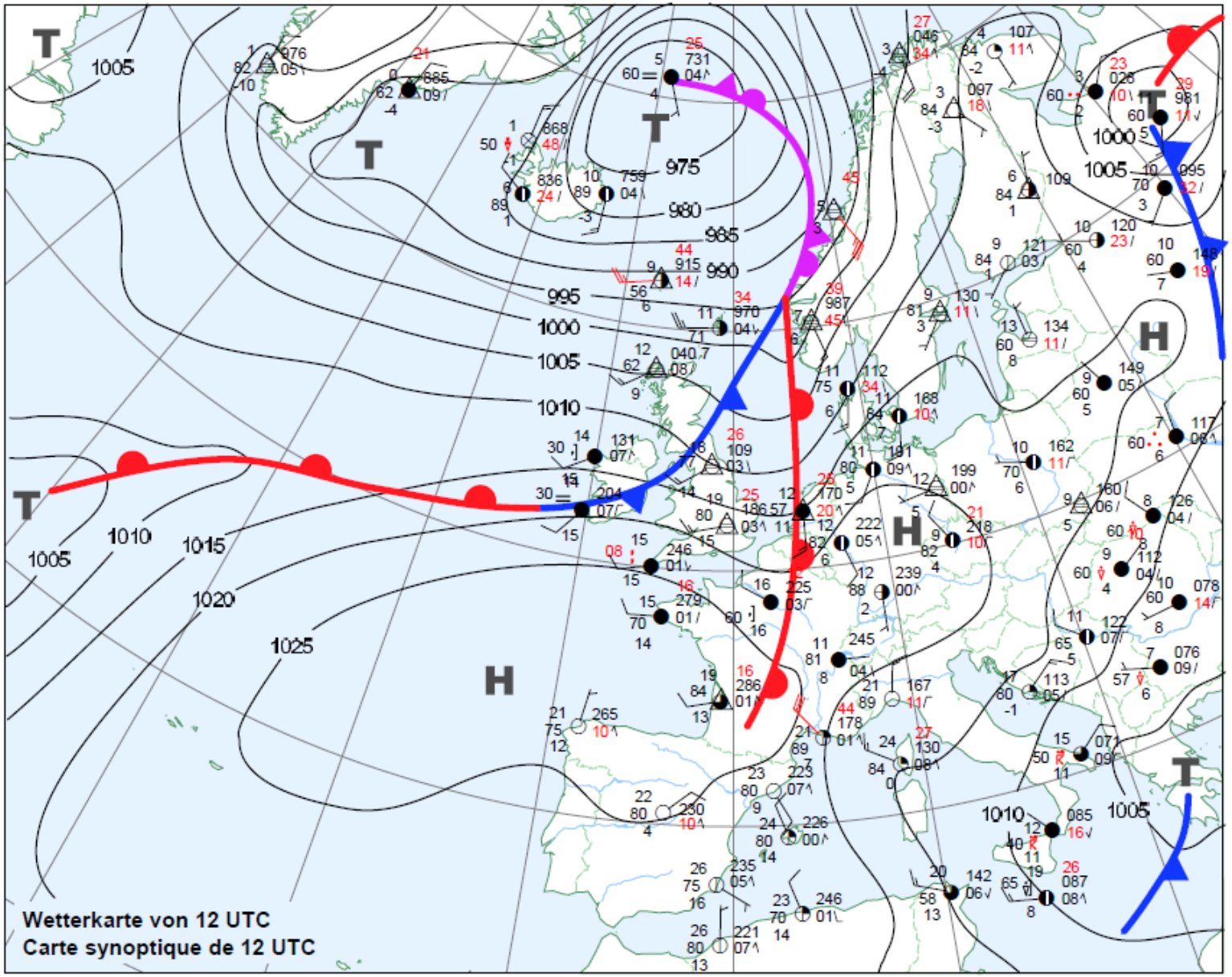
7 ottobre 2011: carta al suolo



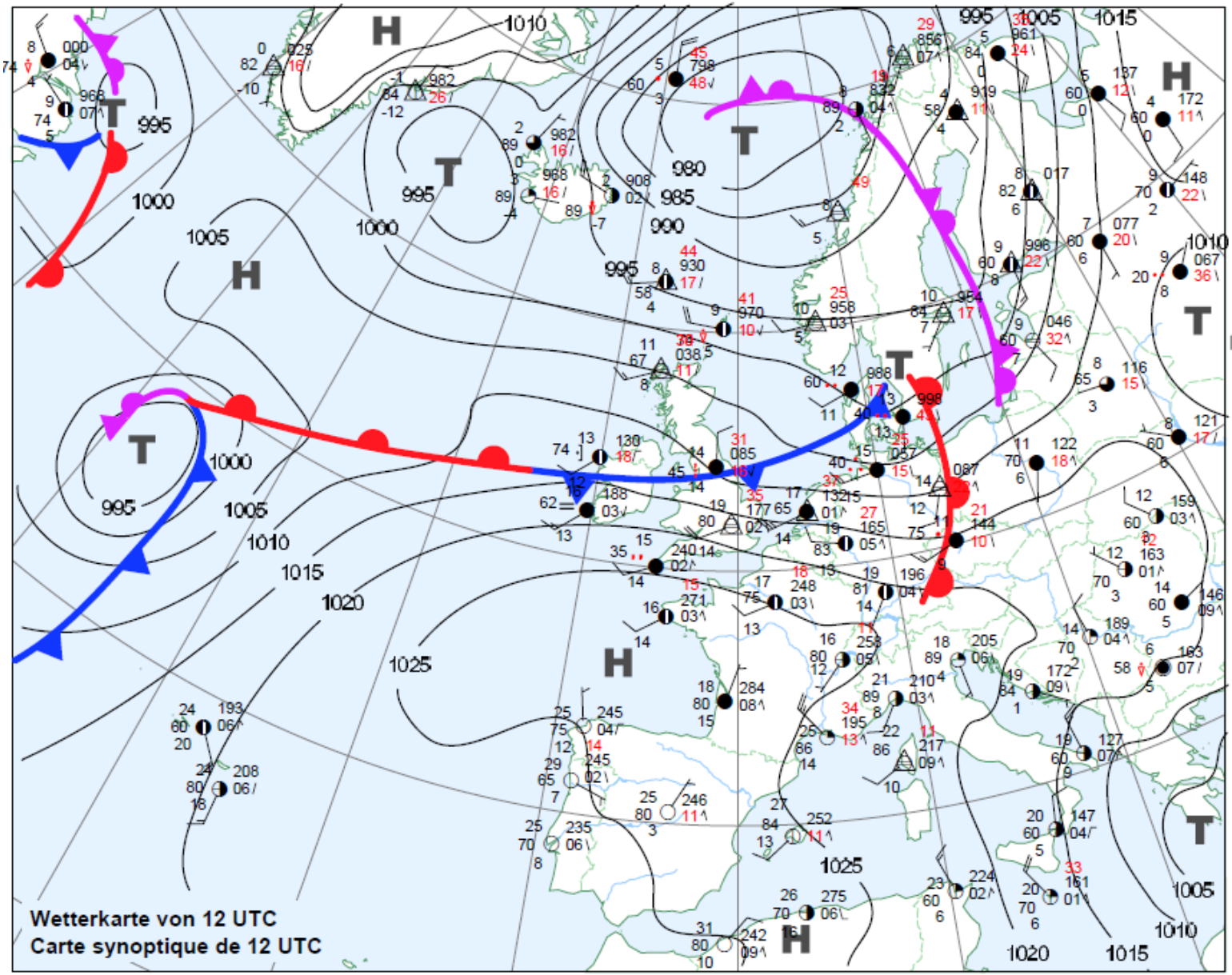
8 ottobre 2011: carta al suolo



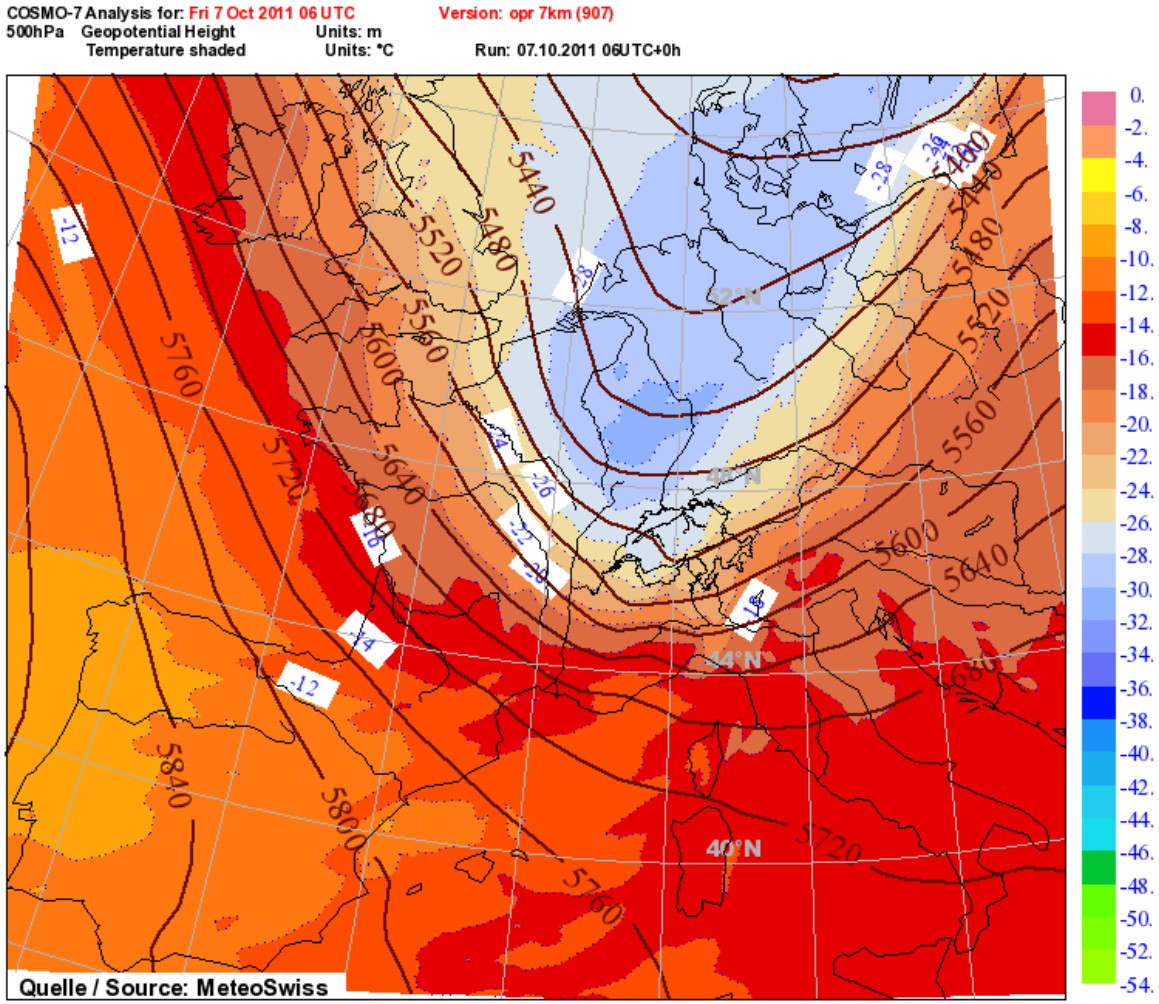
9 ottobre 2011: carta al suolo



10 ottobre 2011: carta al suolo



Z@500 hPa: 7 06UTC



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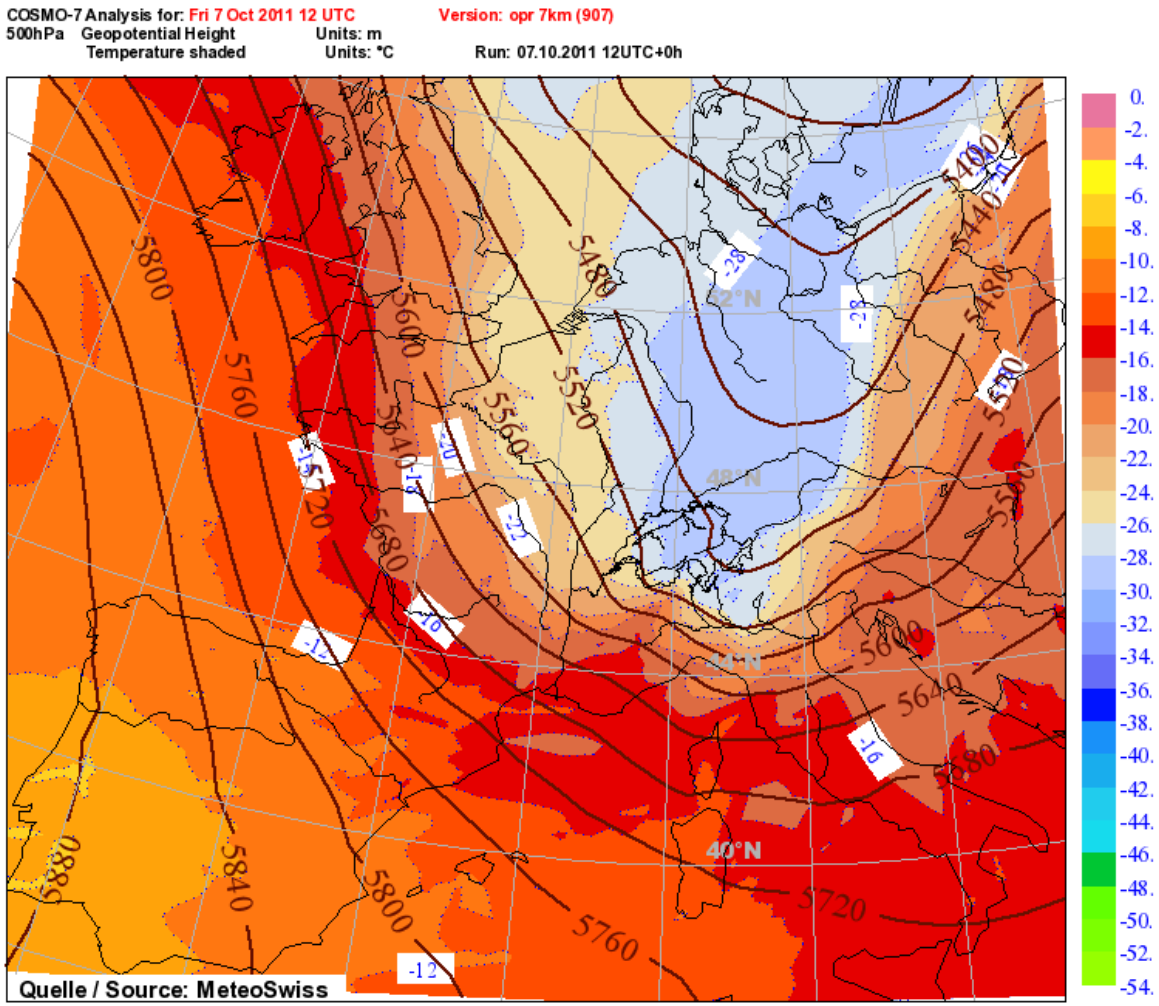

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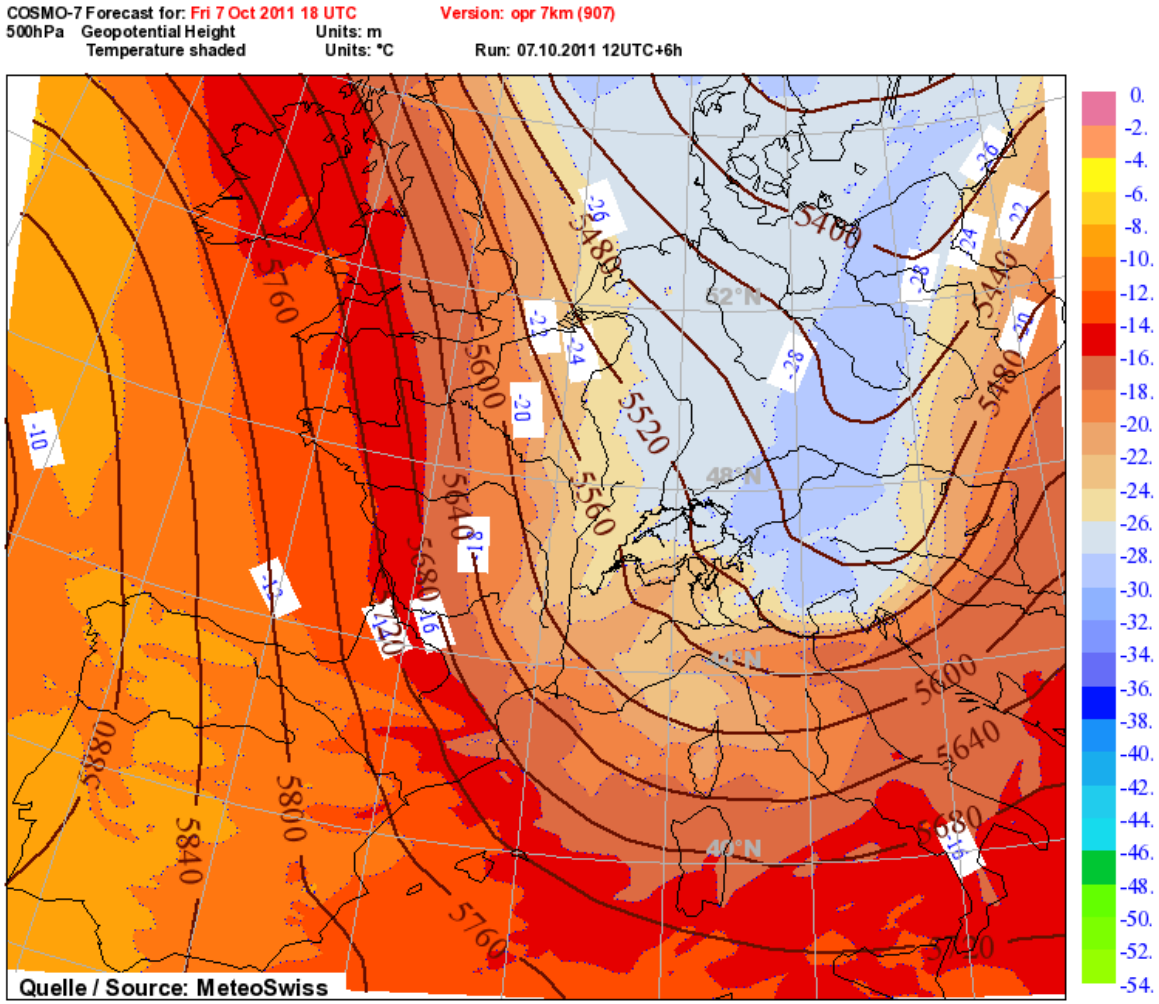

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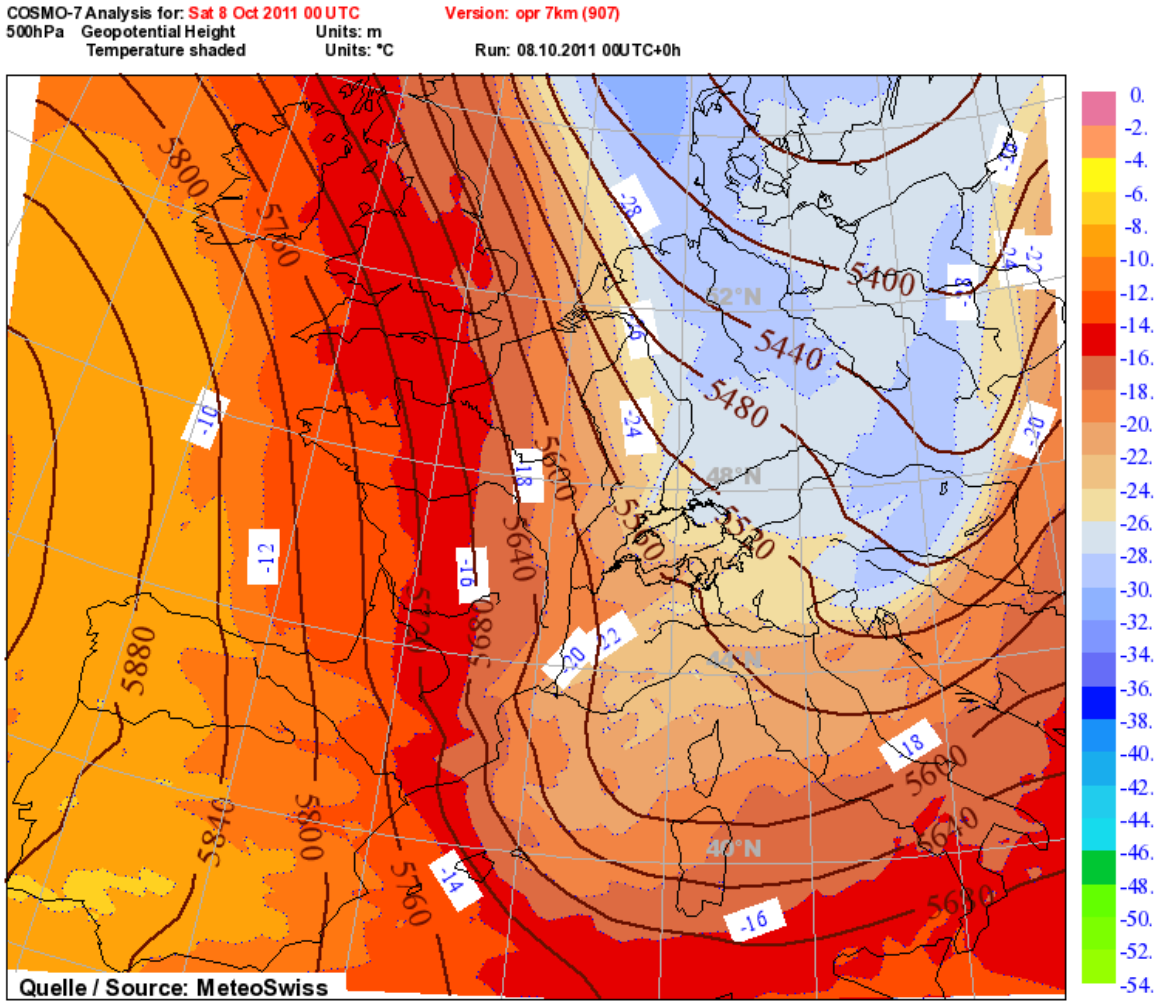

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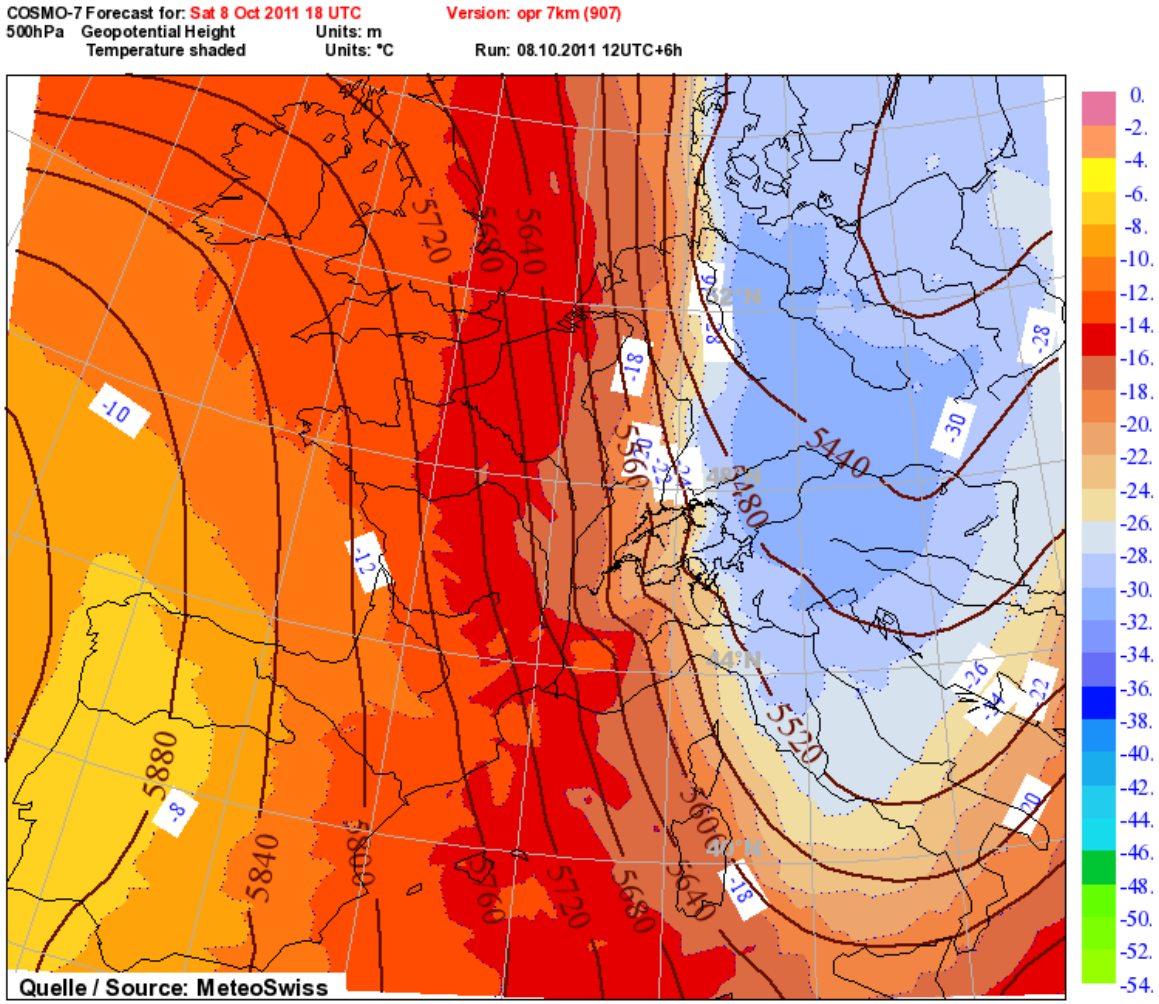

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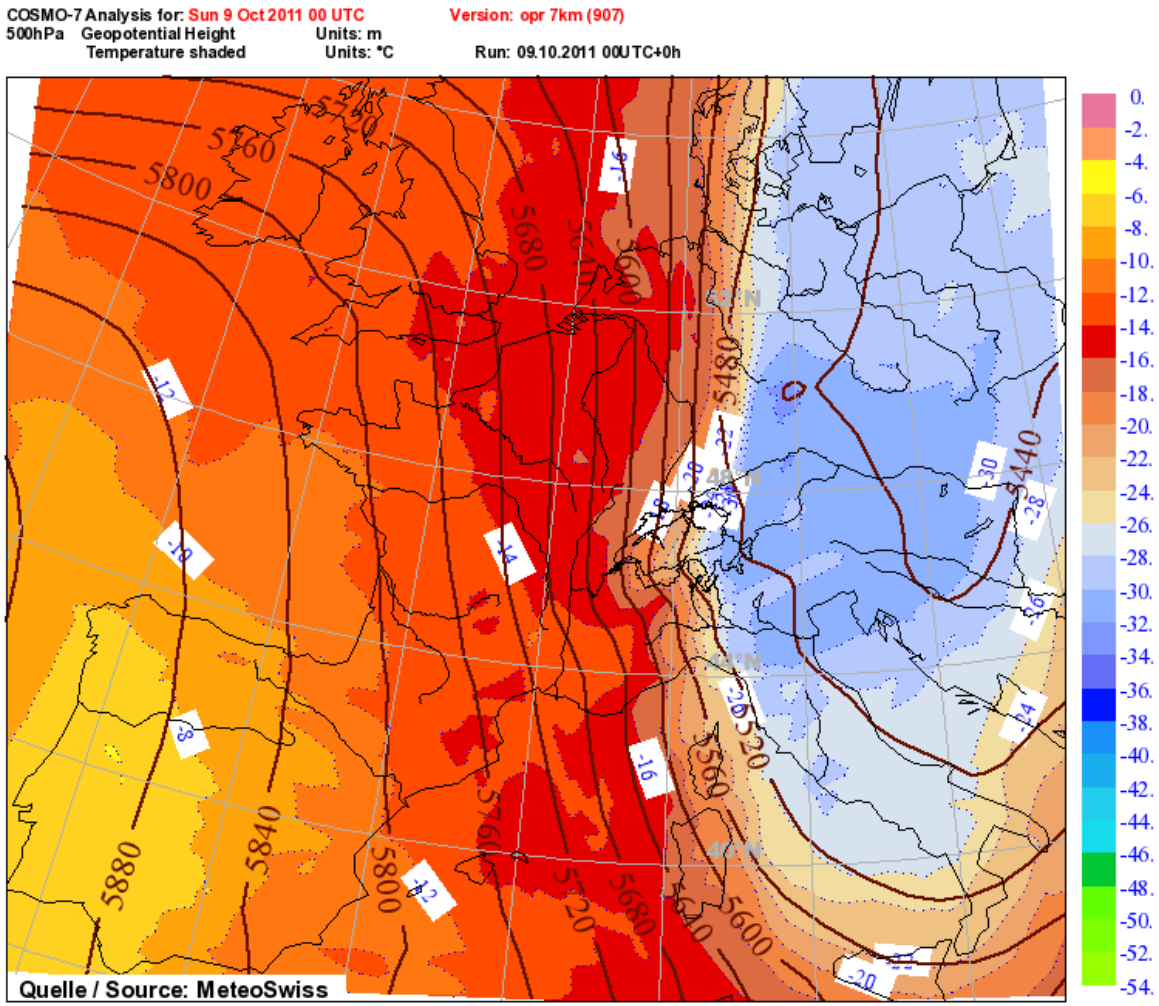
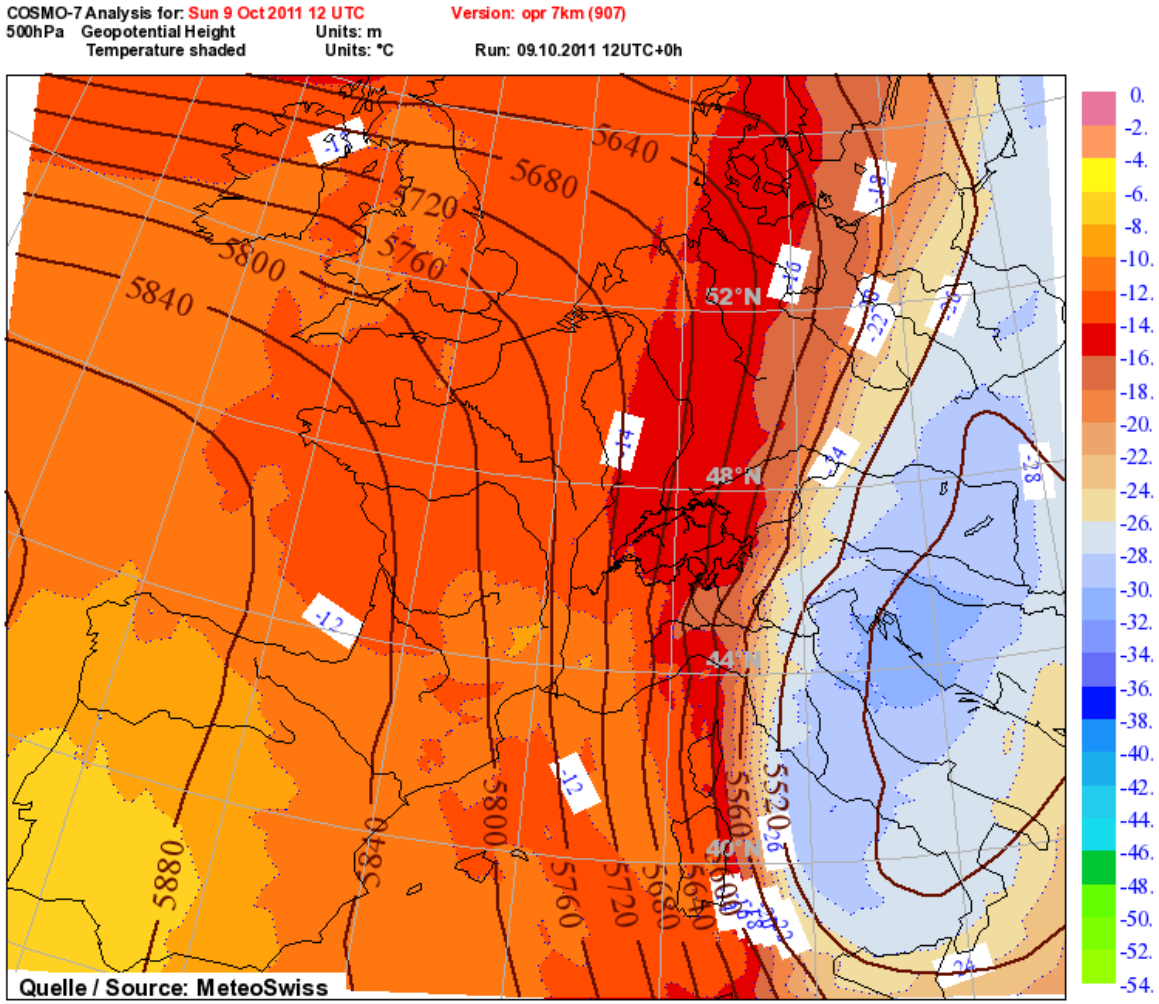


Z@500 hPa: 9 12UTC



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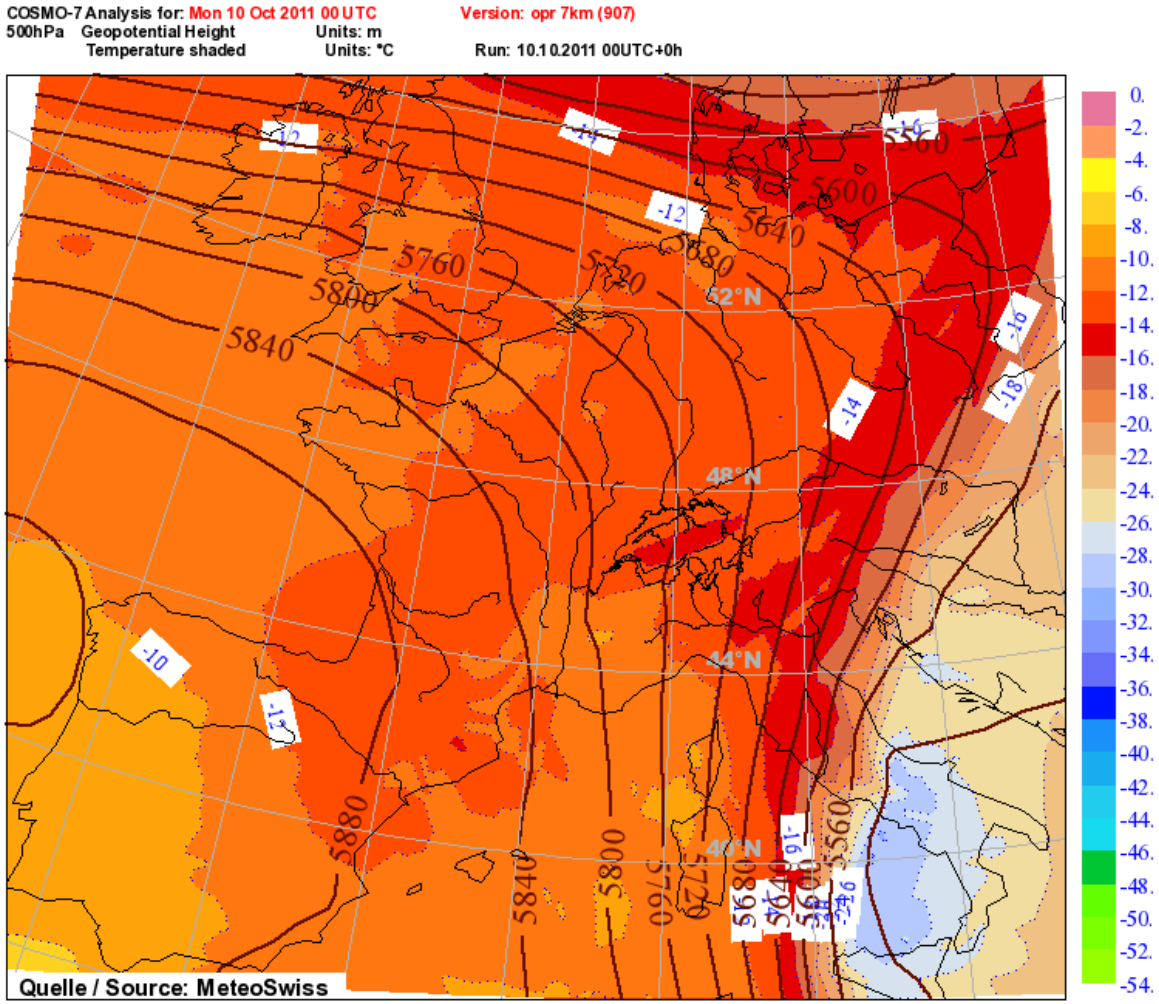
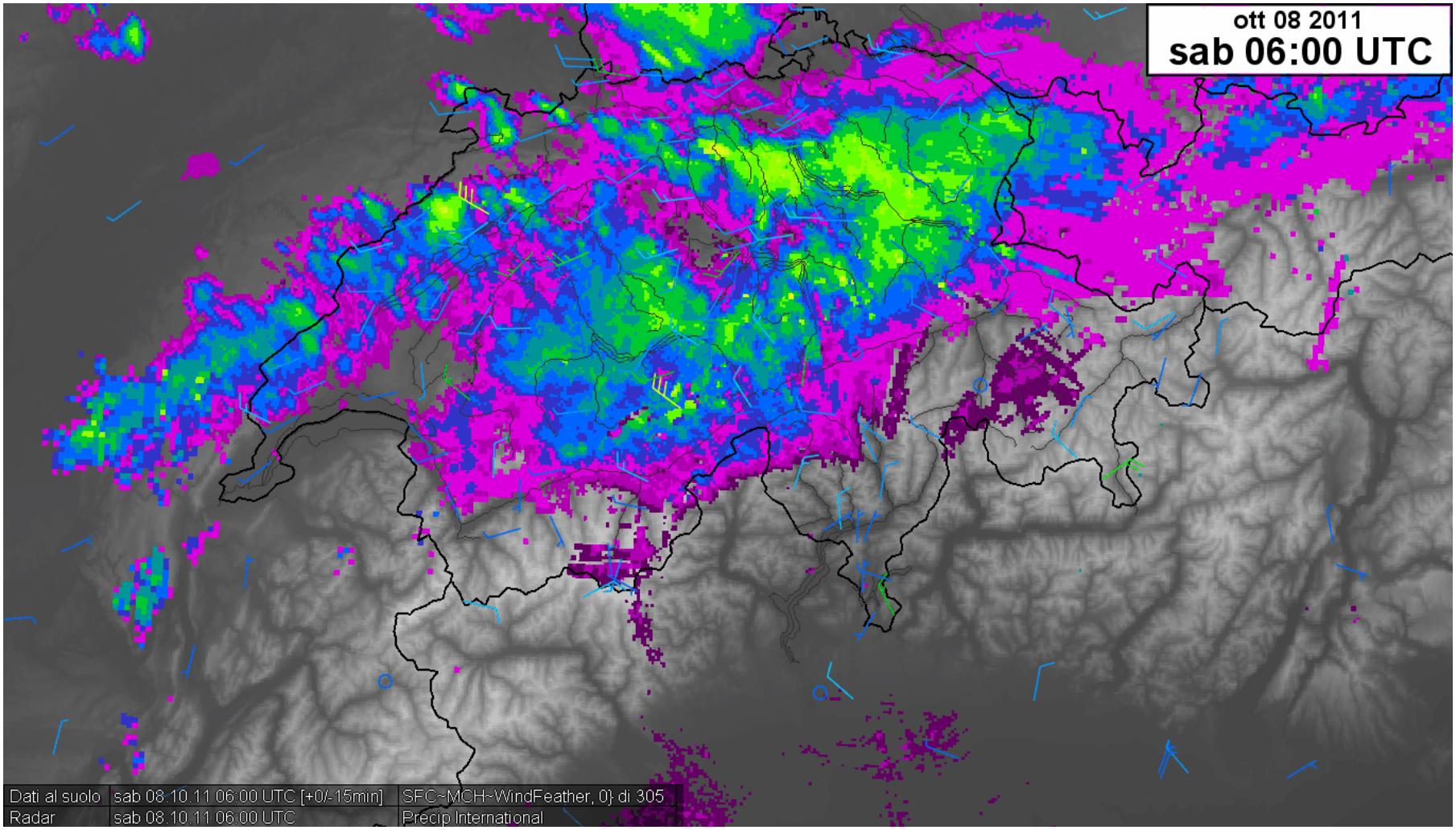
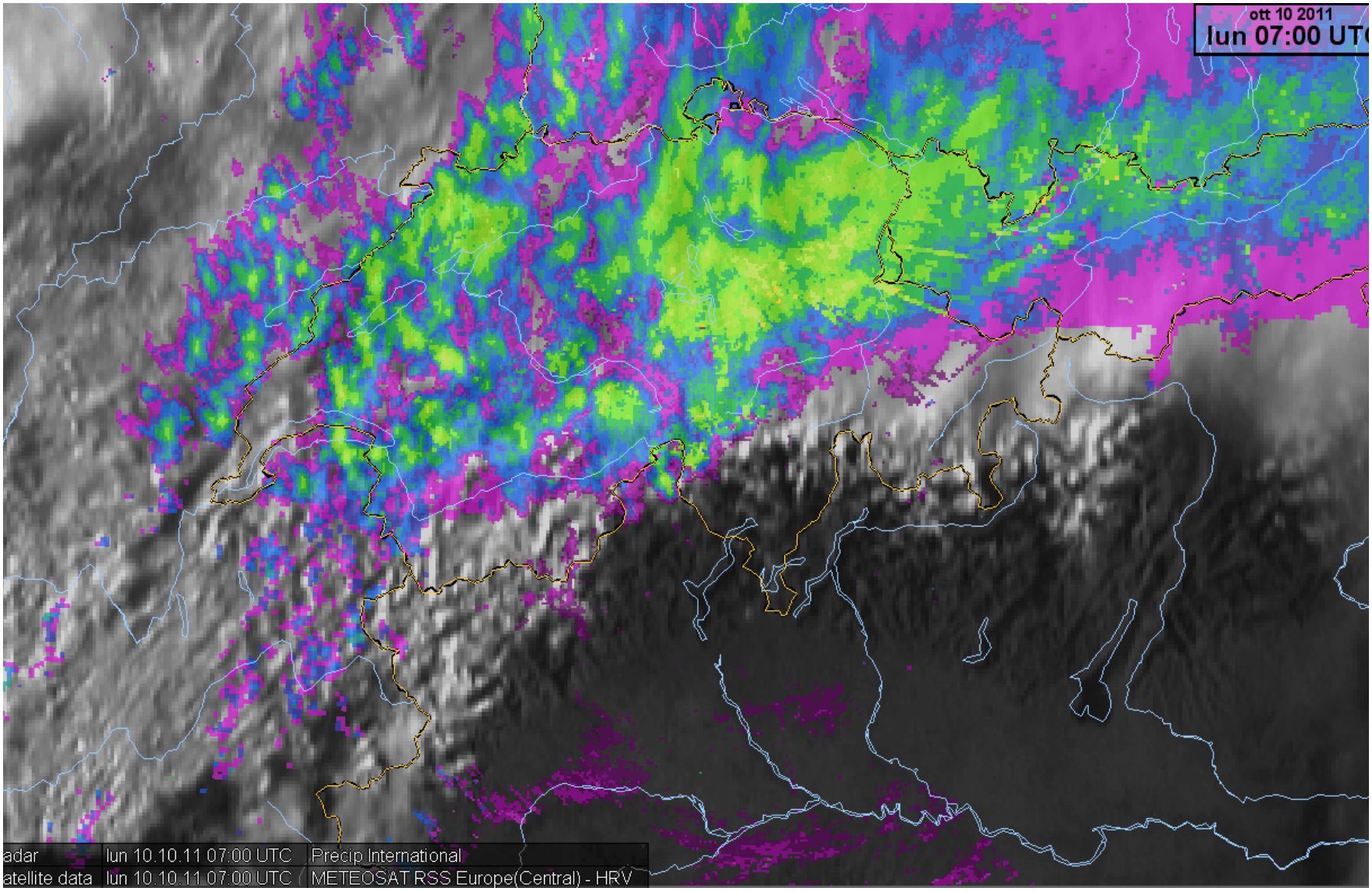


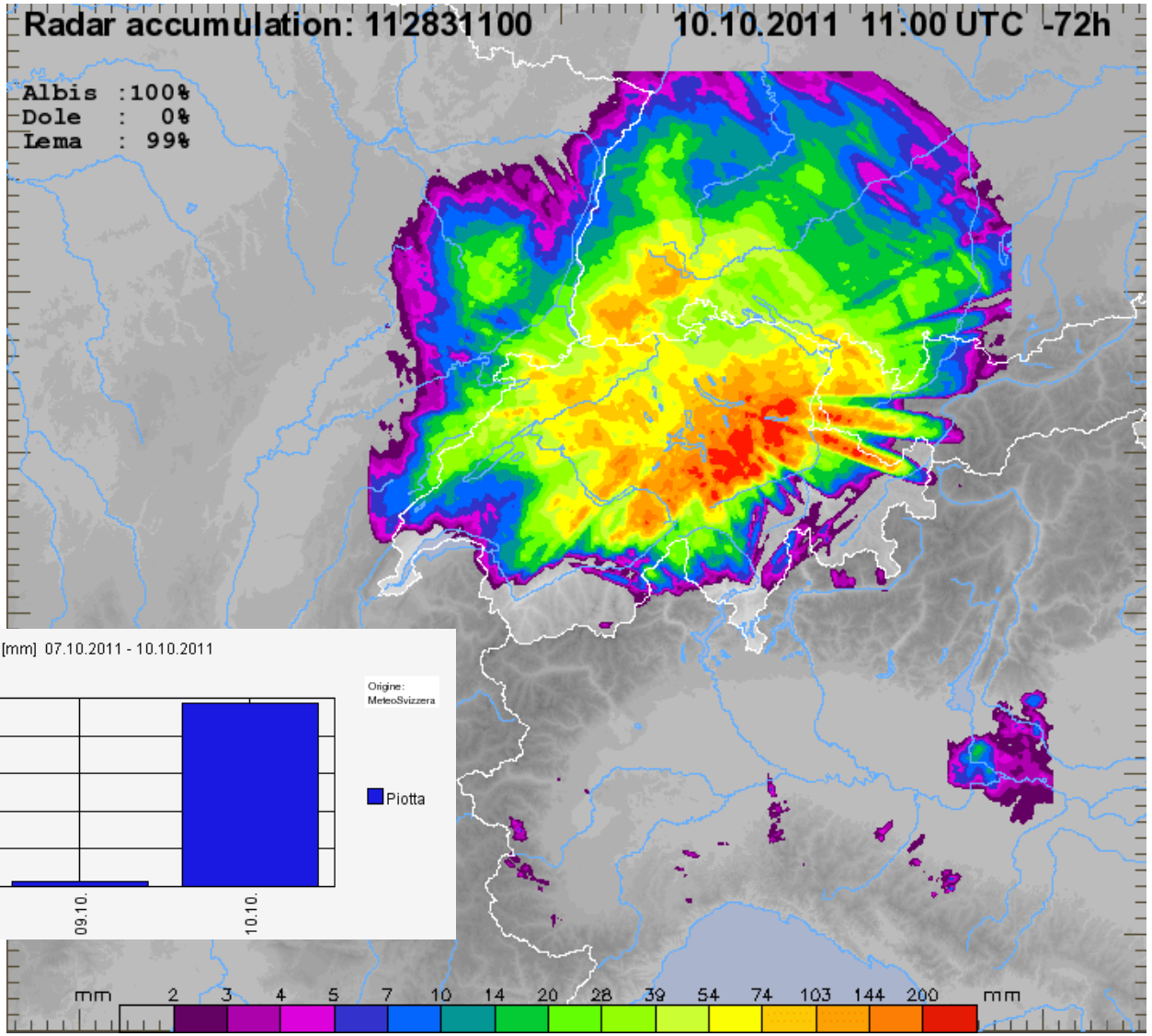
8-9.10 radar e satellite

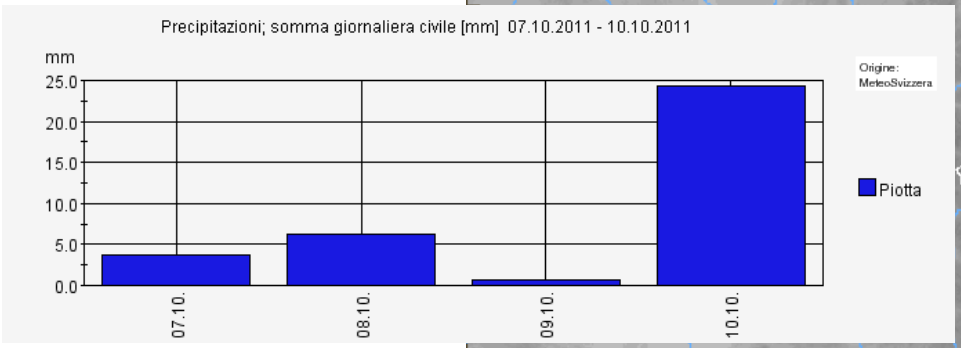


10.10 radar e satellite

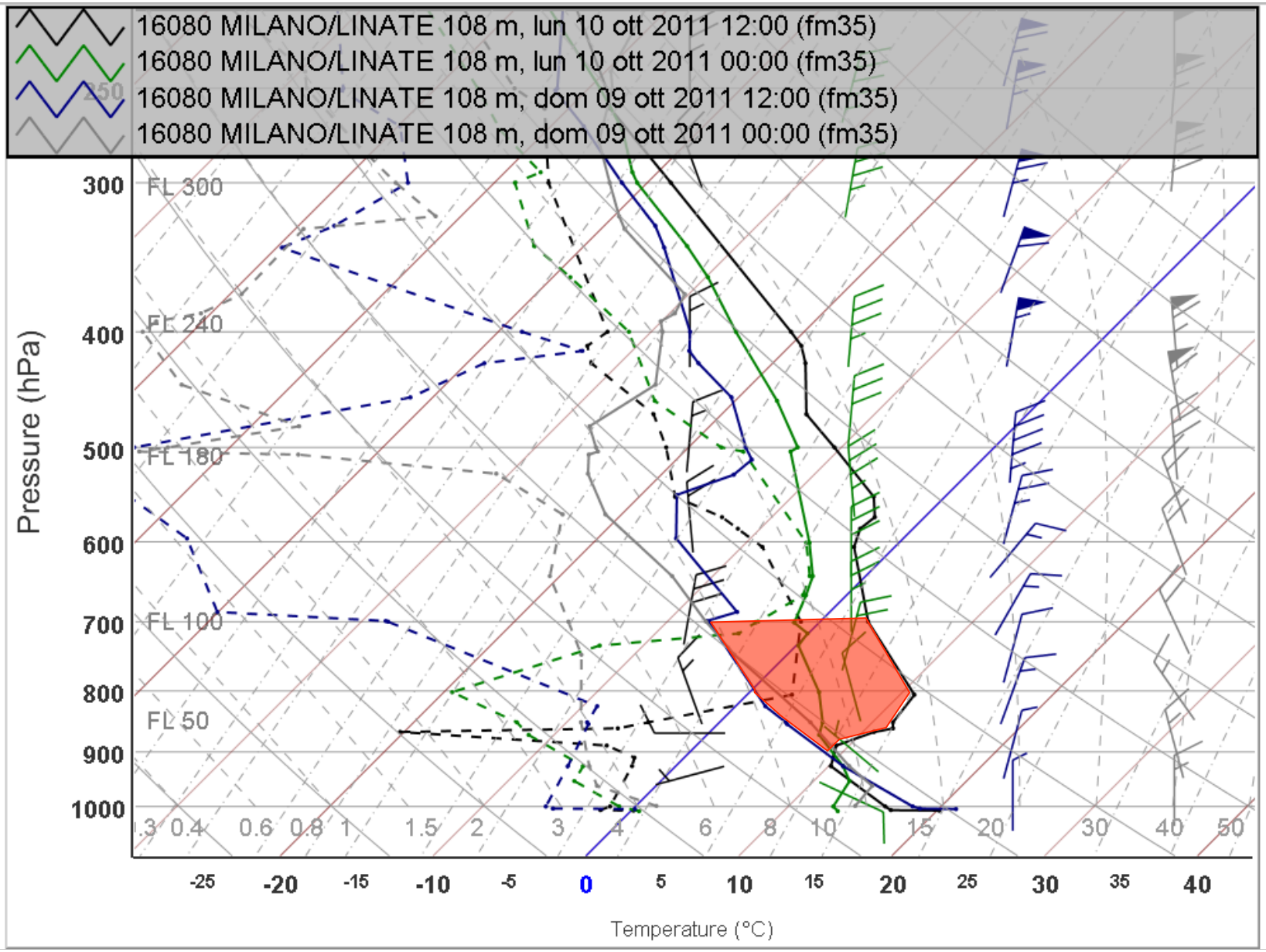


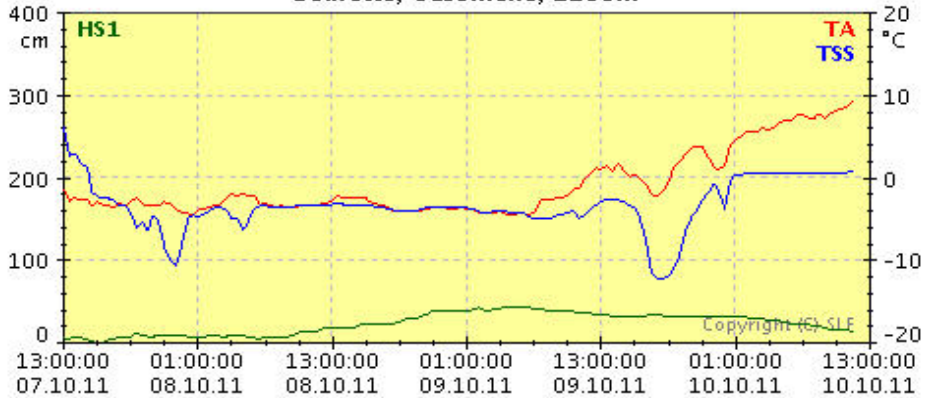
Accumuli di precipitazione



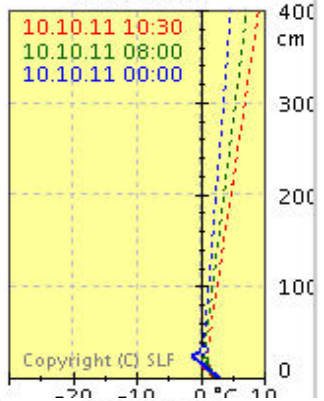


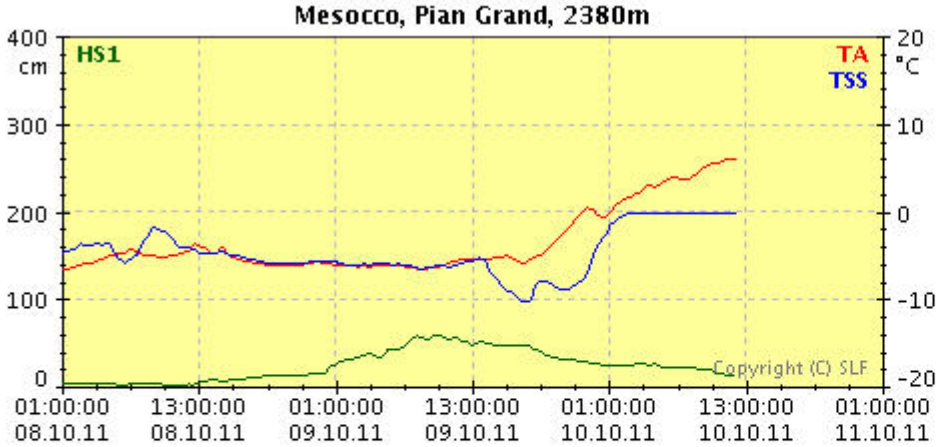
Radiosondaggi verticali



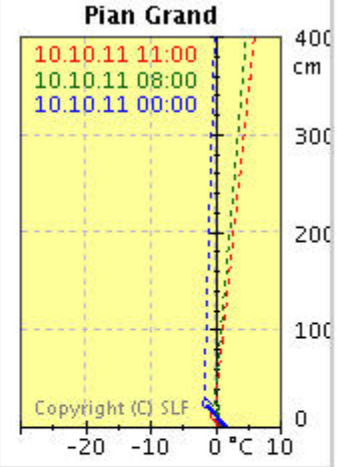


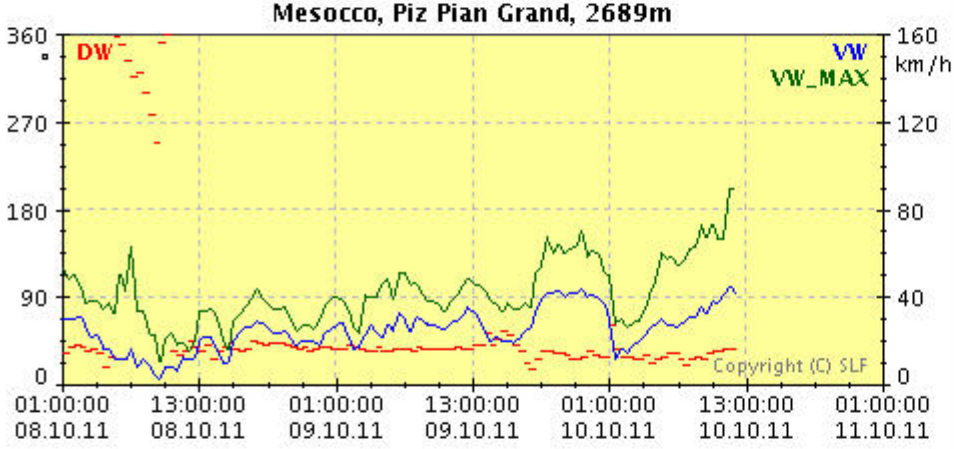
Bedretto	2100m	
Cassinello		
10.10.2011 10:30		
		D24h
HS1:	14 cm	-23
TA:	9.3 °C	9.4
TSS:	0.7 °C	5.1
TS3:	10.1 °C	7.5
TS2:	7.1 °C	6.8
TS1:	9.0 °C	9.5
TSO:	2.0 °C	-1.2
RSWR:	257 W/m2	-241
RH:	70 %	20



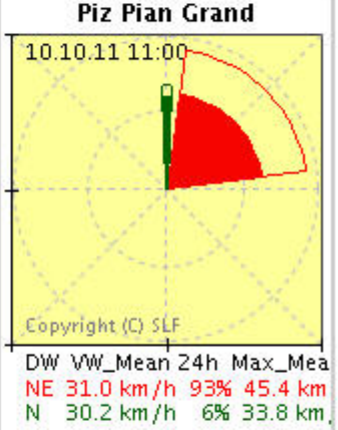


Mesocco	2380m	
Pian Grand		
10.10.2011 11:00		
		D24h
HS1:	12 cm	-41
TA:	6.1 °C	11.5
TSS:	-0.2 °C	5.6
TS3:	5.8 °C	9.9
TS2:	5.6 °C	9.3
TS1:	6.6 °C	6.6
TSO:	0.6 °C	-1.2
RSWR:	135 W/m2	-236
RH:	86 %	-2

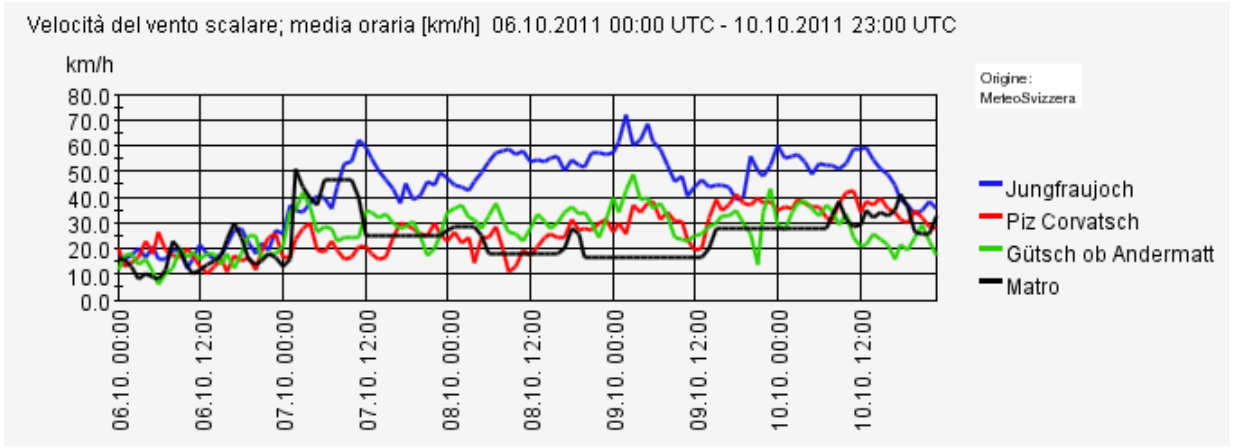


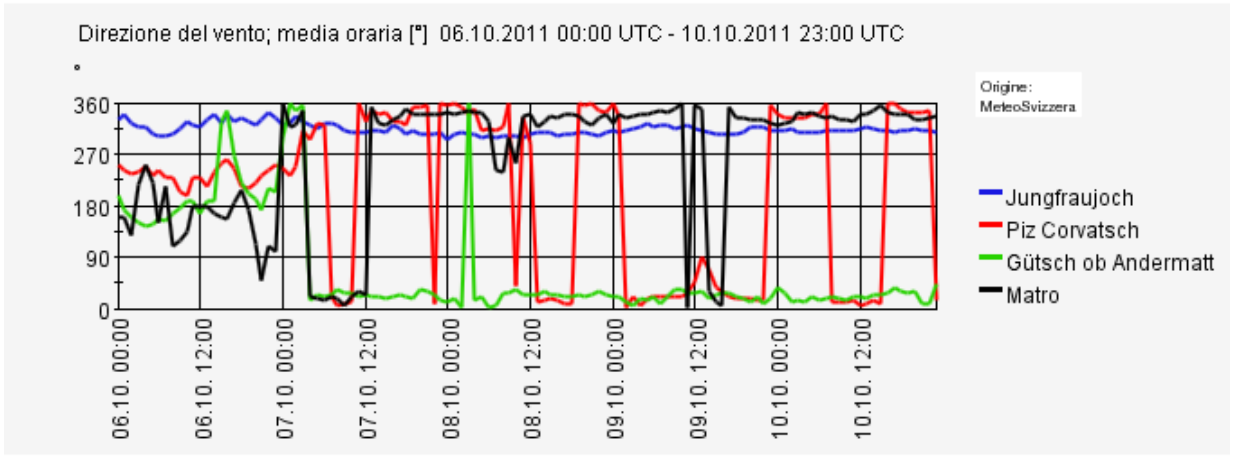


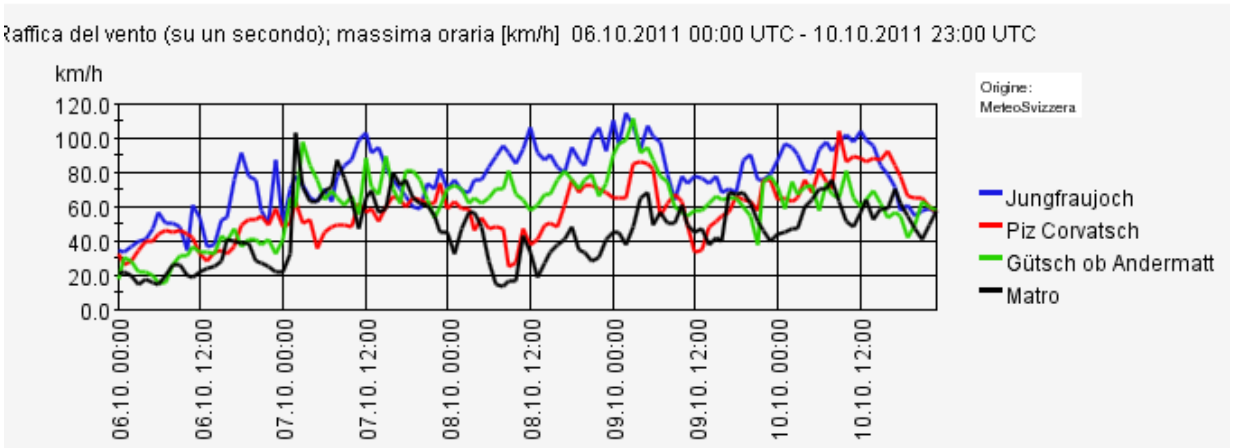
Mesocco	2689m	
Piz Pian Grand		
10.10.2011 11:00		
		D24h
DW:	NE °	
VW:	41.8 km/h	
MAX:	88.9 km/h	
TA:	3.9 °C	12.0
RH:	91 %	-9



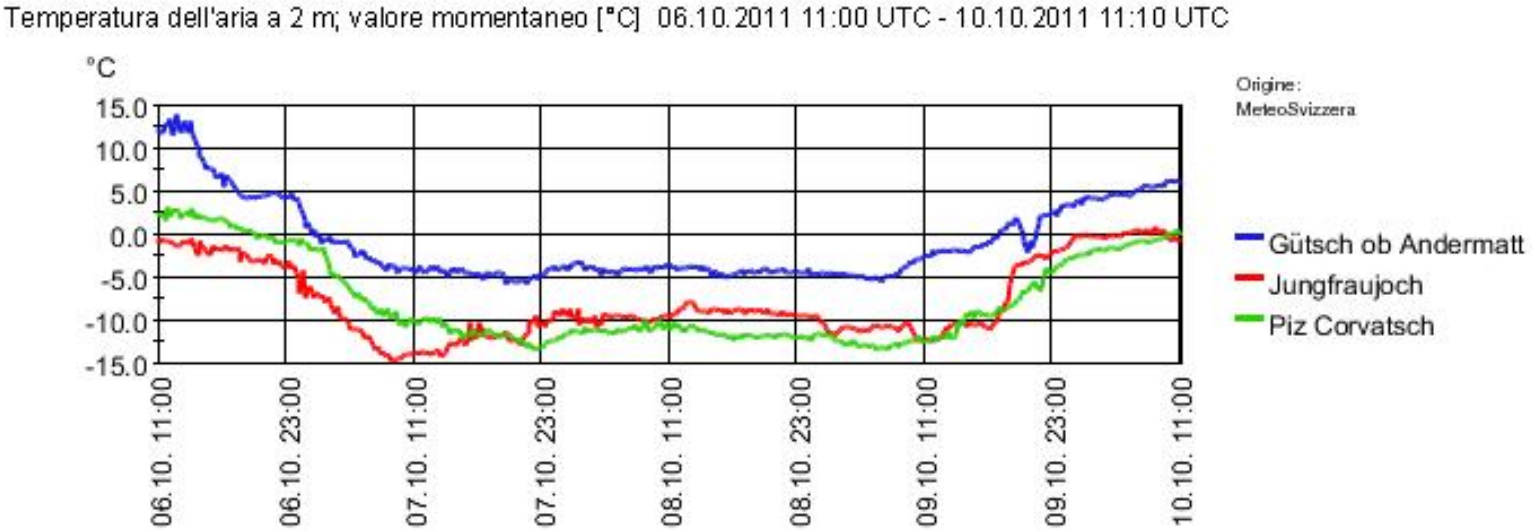
Vento


Velocità del vento scalare; media oraria [km/h] 06.10.2011 00:00 UTC - 10.10.2011 23:00 UTC
km/h
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
06.10. 00:00
06.10. 12:00
07.10. 00:00
07.10. 12:00
08.10. 00:00
08.10. 12:00
09.10. 00:00
09.10. 12:00
10.10. 00:00
10.10. 12:00
Origine: MeteoSvizzera
Jungfraujoch
Piz Corvatsch
Gütsch ob Andermatt
Matro

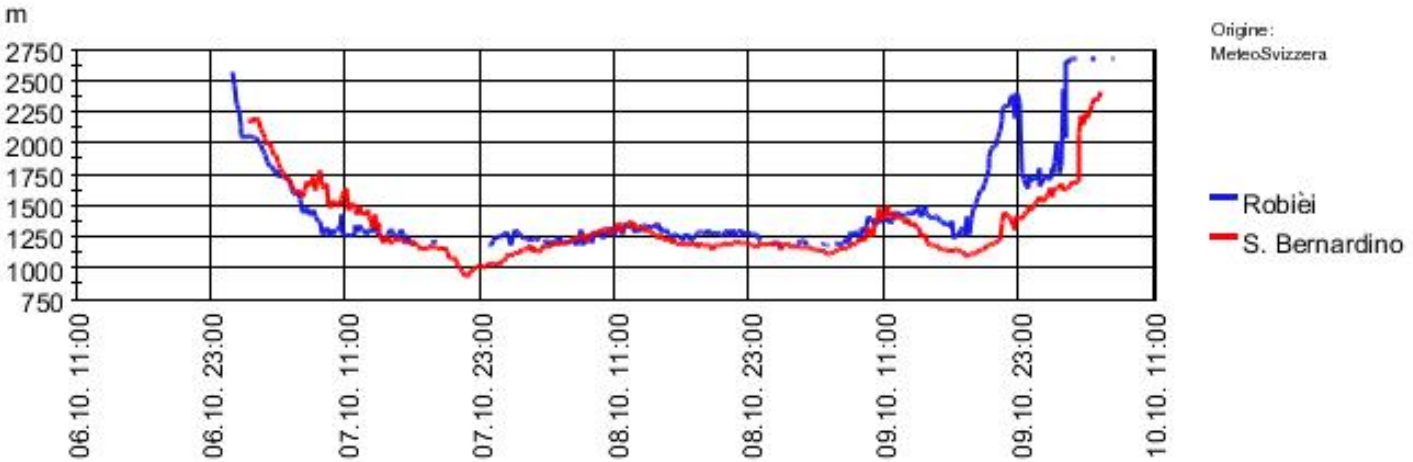

Direzione del vento; media oraria [°] 06.10.2011 00:00 UTC - 10.10.2011 23:00 UTC
°
360
270
180
90
0
06.10. 00:00
06.10. 12:00
07.10. 00:00
07.10. 12:00
08.10. 00:00
08.10. 12:00
09.10. 00:00
09.10. 12:00
10.10. 00:00
10.10. 12:00
Origine: MeteoSvizzera
Jungfraujoch
Piz Corvatsch
Gütsch ob Andermatt
Matro


affica del vento (su un secondo); massima oraria [km/h] 06.10.2011 00:00 UTC - 10.10.2011 23:00 UTC
km/h
120.0
100.0
80.0
60.0
40.0
20.0
0.0
06.10. 00:00
06.10. 12:00
07.10. 00:00
07.10. 12:00
08.10. 00:00
08.10. 12:00
09.10. 00:00
09.10. 12:00
10.10. 00:00
10.10. 12:00
Origine: MeteoSvizzera
Jungfraujoch
Piz Corvatsch
Gütsch ob Andermatt
Matro

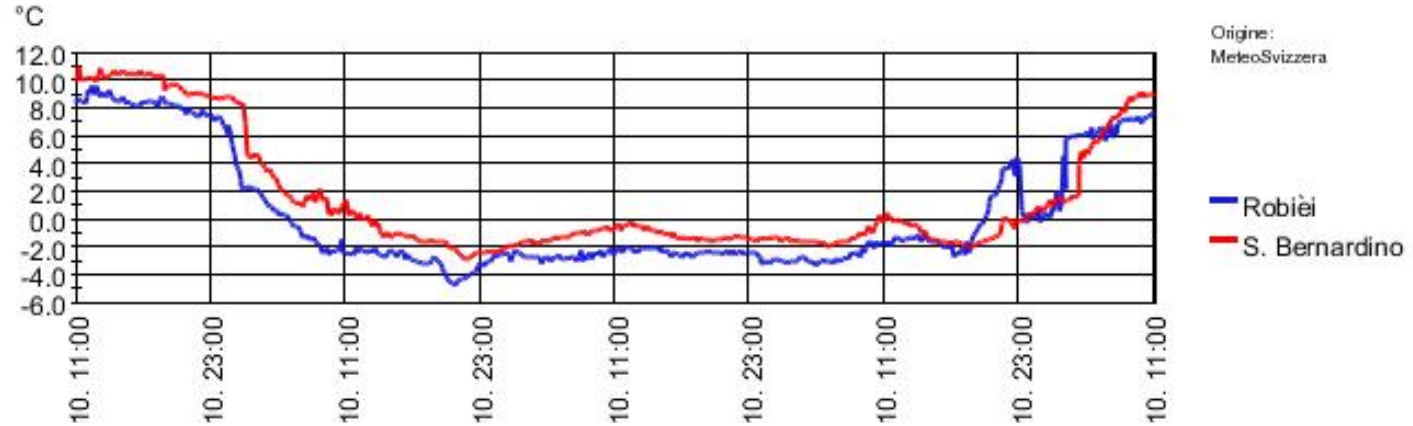
Temperatura in quota



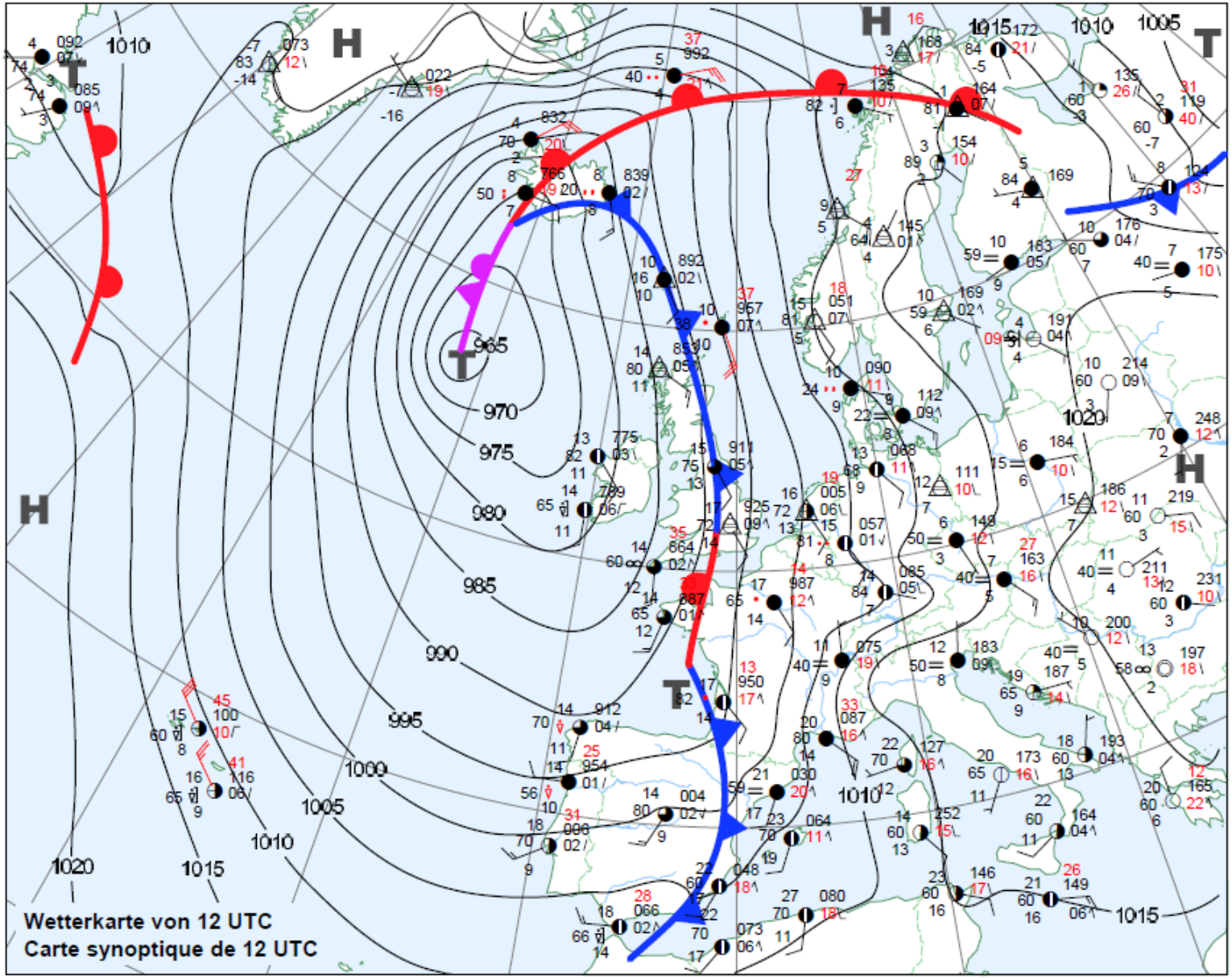
Limite delle nevicate



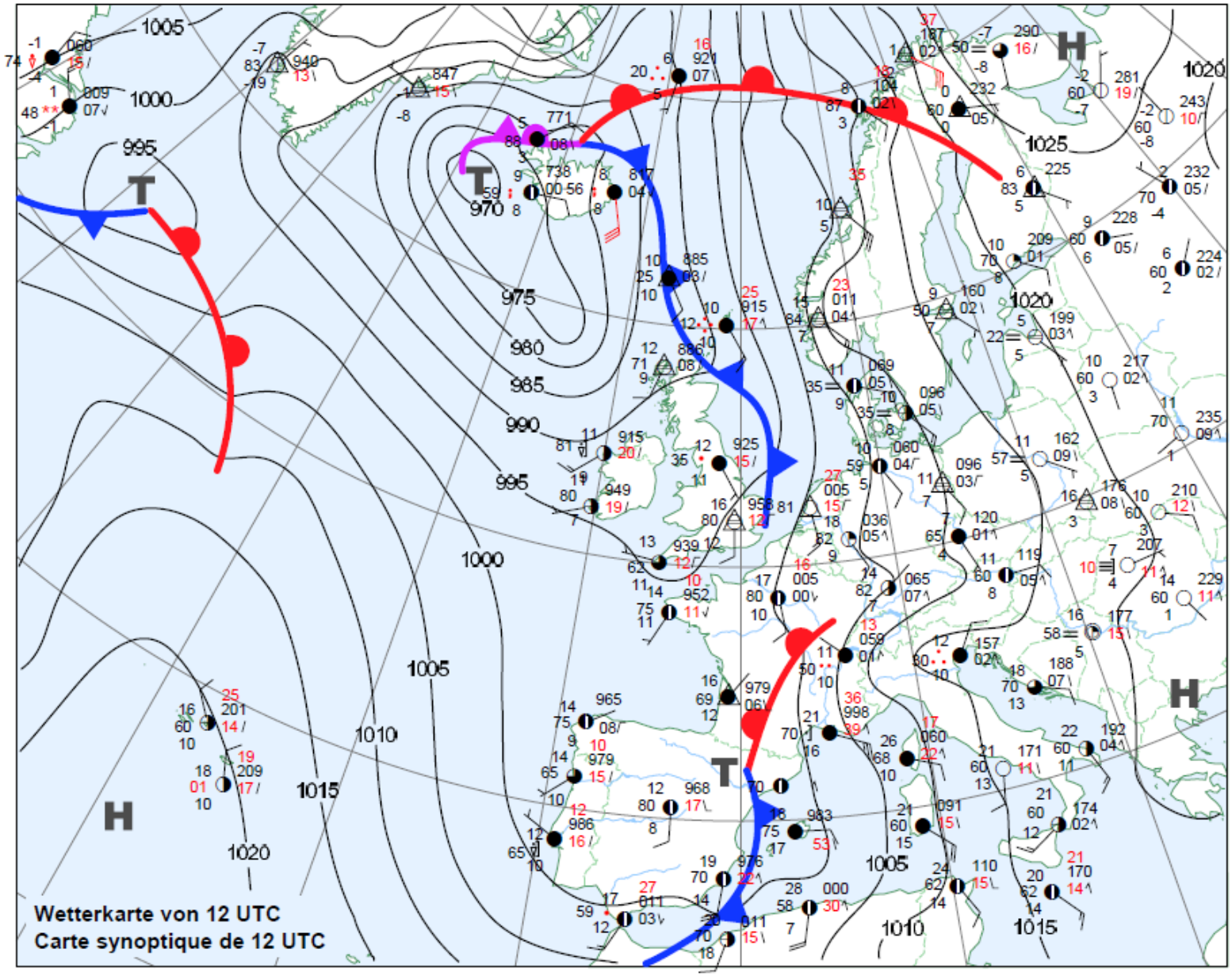
Temperatura del wet-bulb (temperatura psicrometro) a 2 m; valore momentaneo [°C] 06.10.2011 11:00 UTC - 10.10.2011 11:10 UT



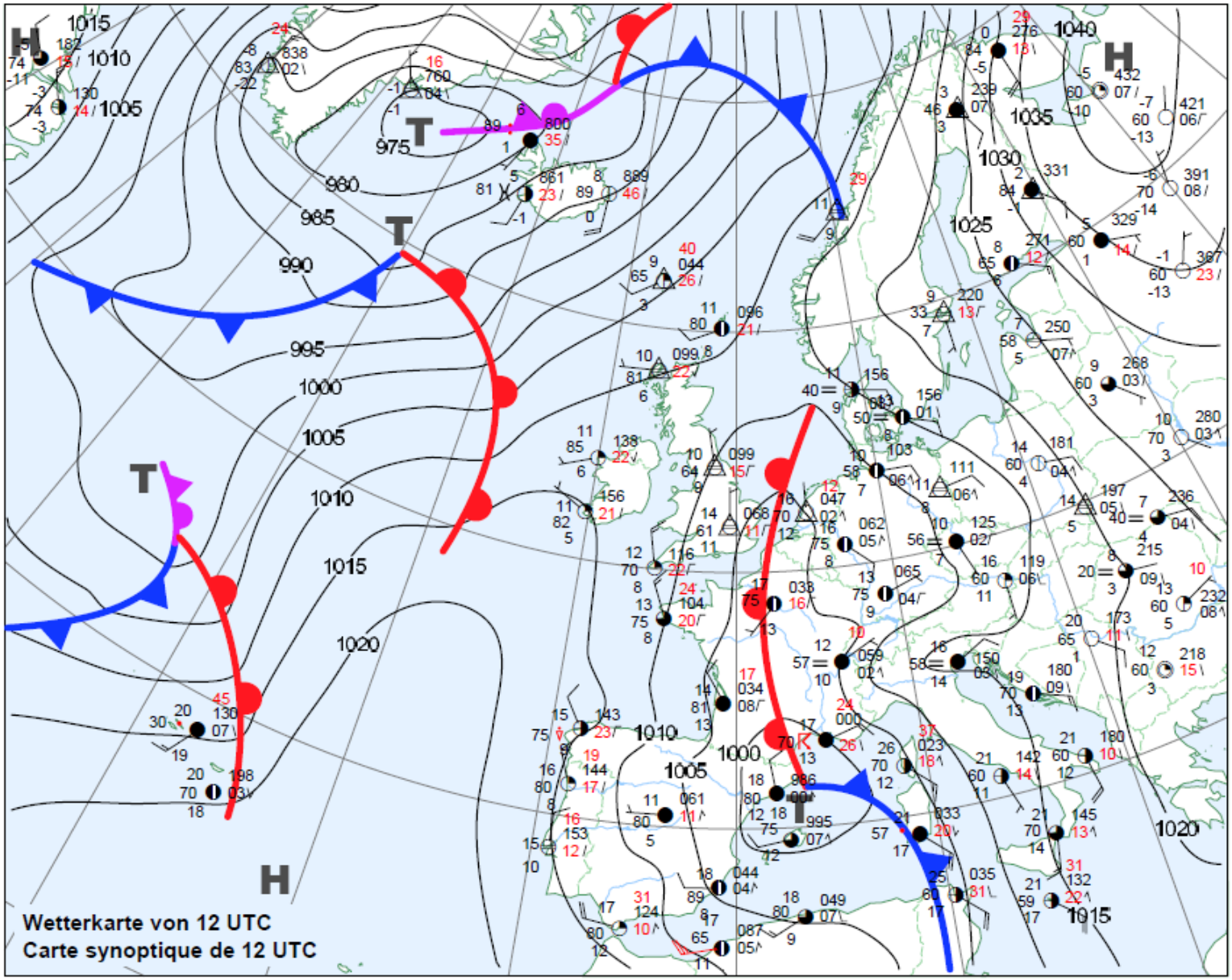
3.11 Situazione di sbarramento



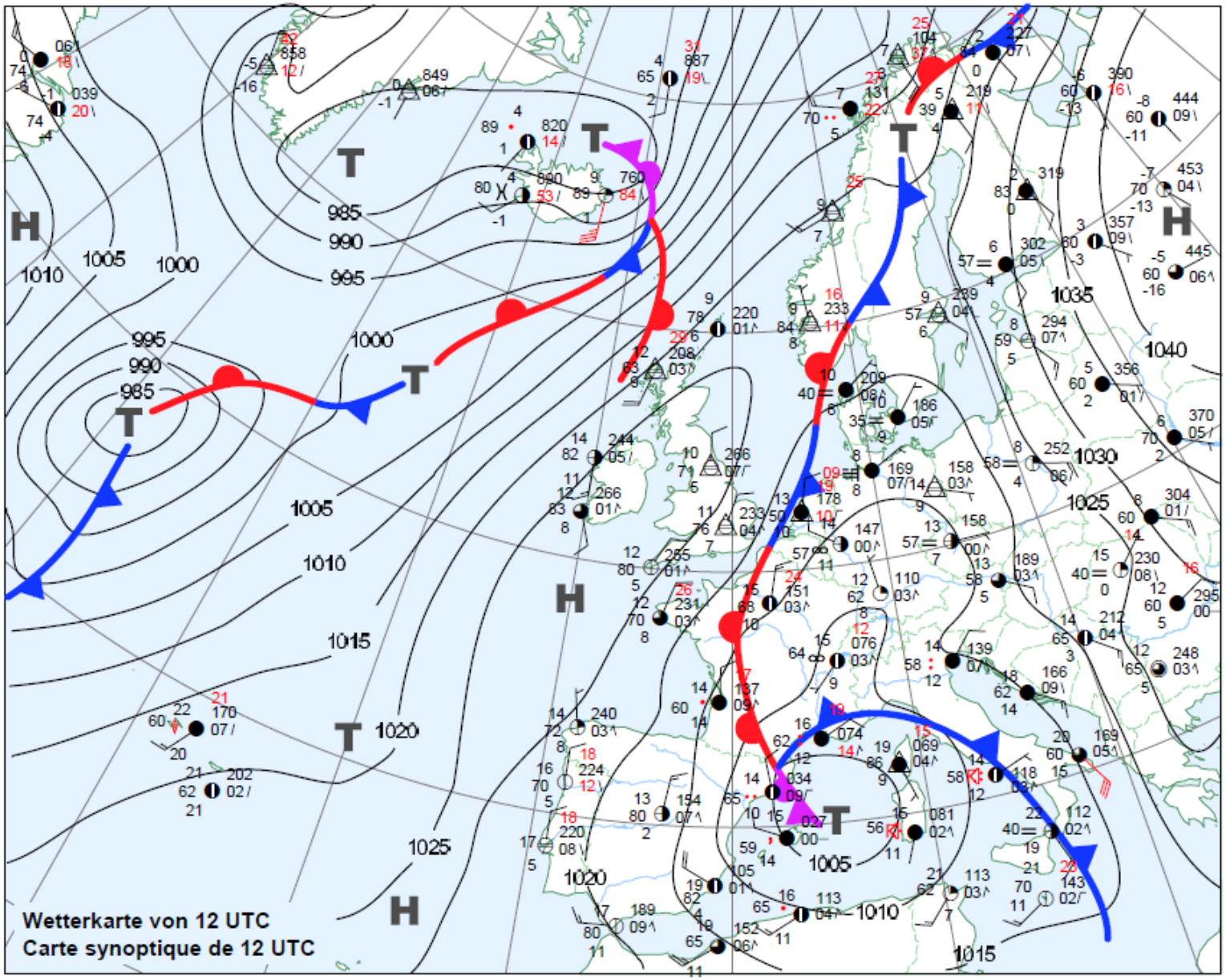
4.11 Situazione di sbarramento



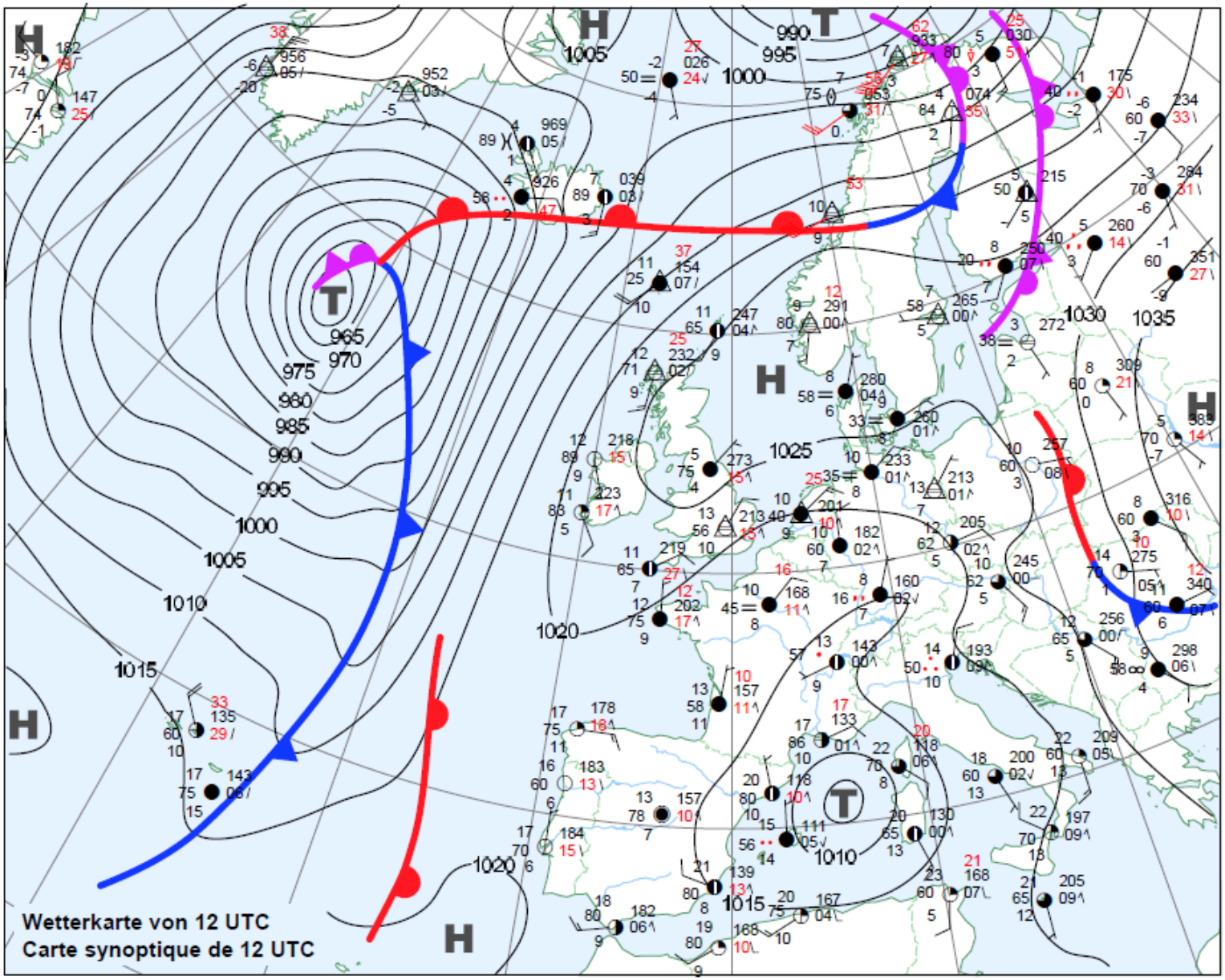
5.11 Situazione di sbarramento



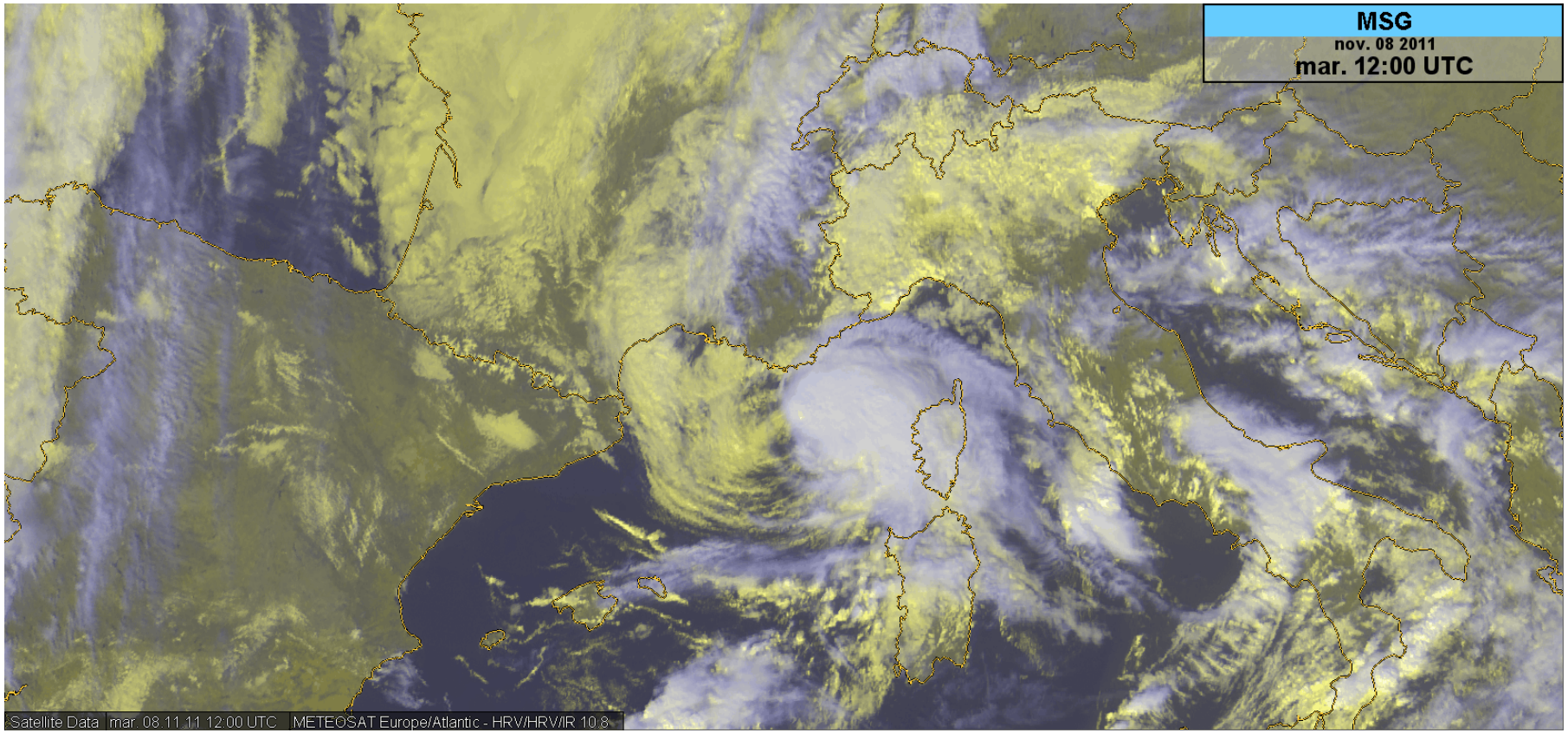
6.11 Situazione di sbarramento



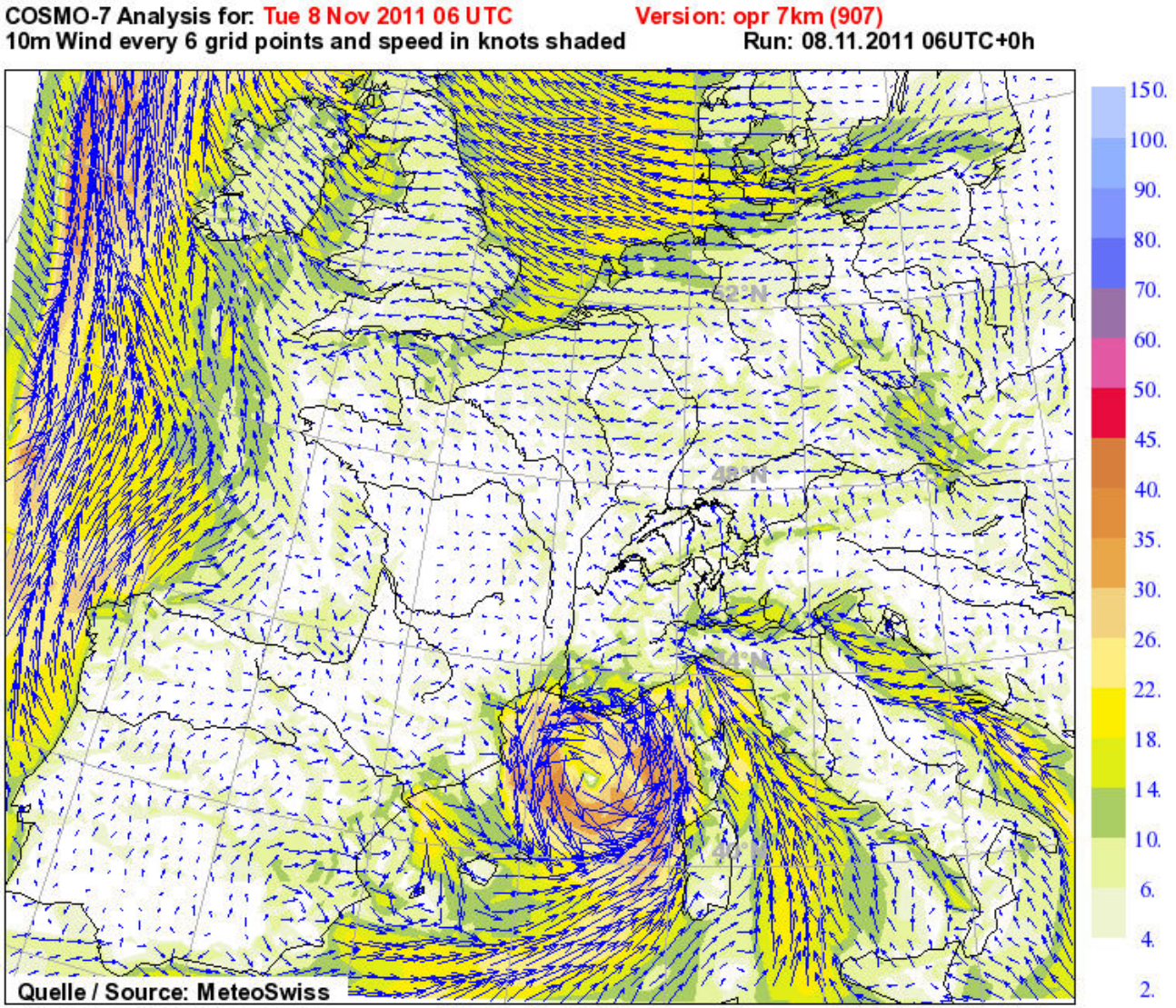
7.11 Situazione di sbarramento

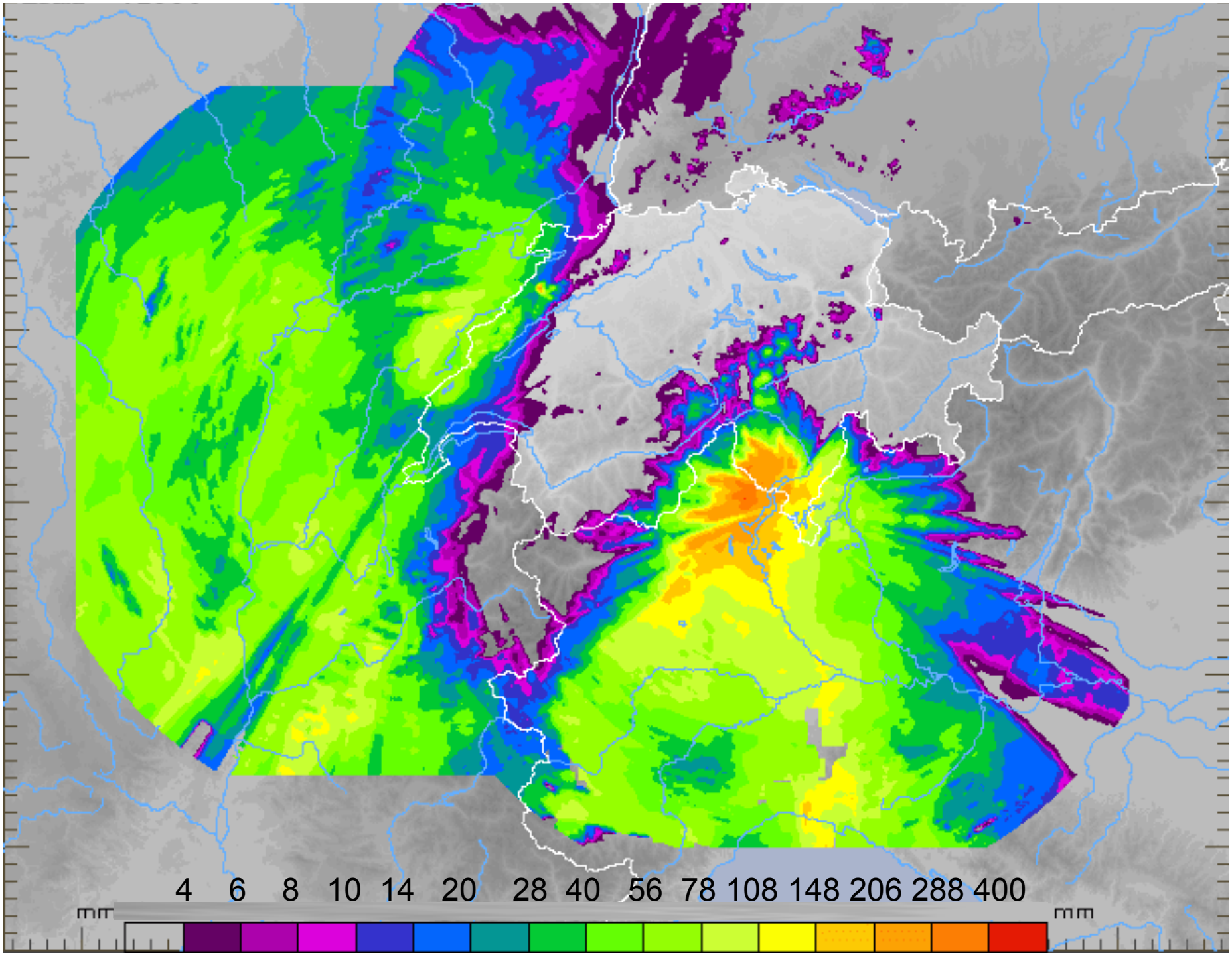


7-8.11 Medicane?



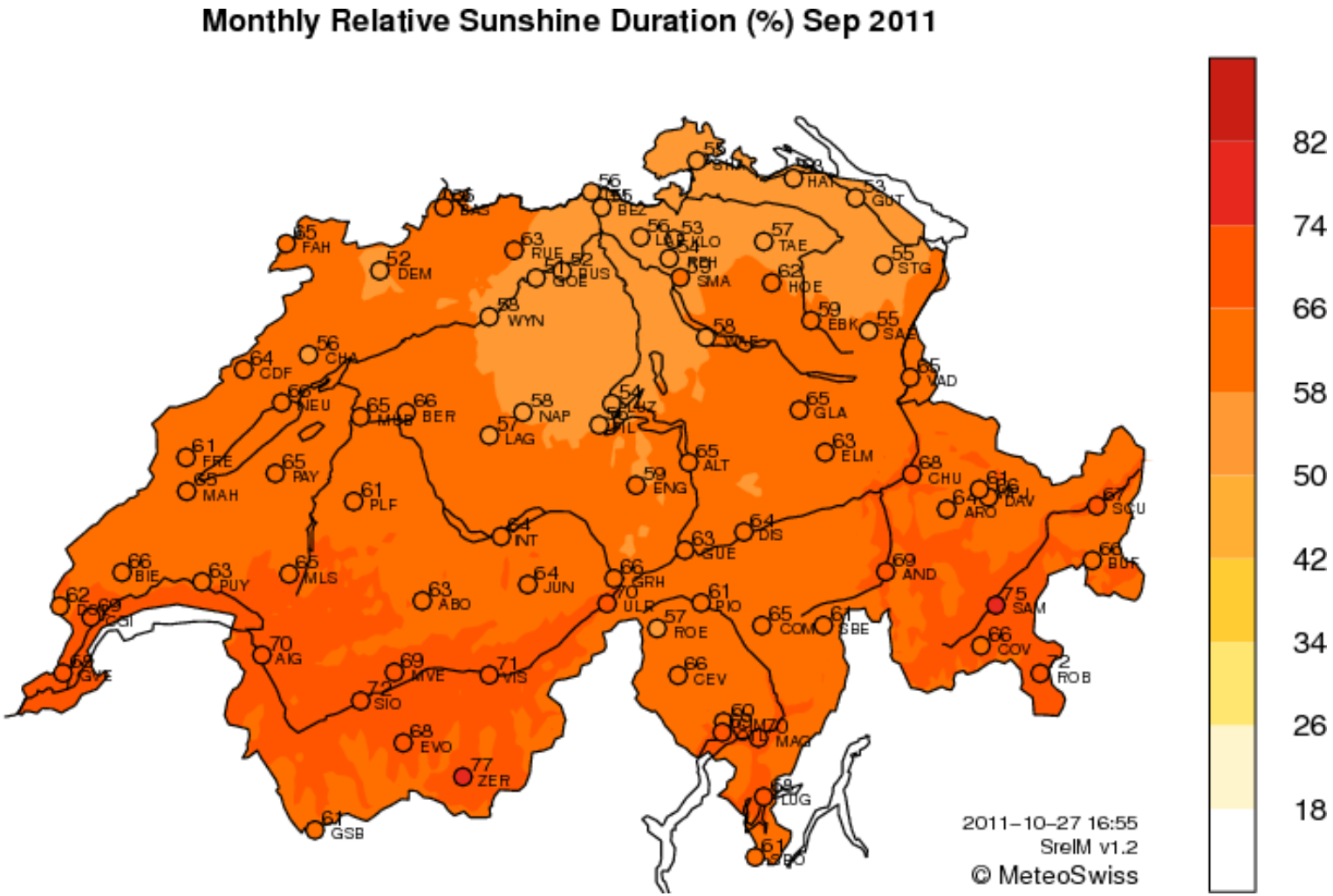
7-8.11 Medicane?



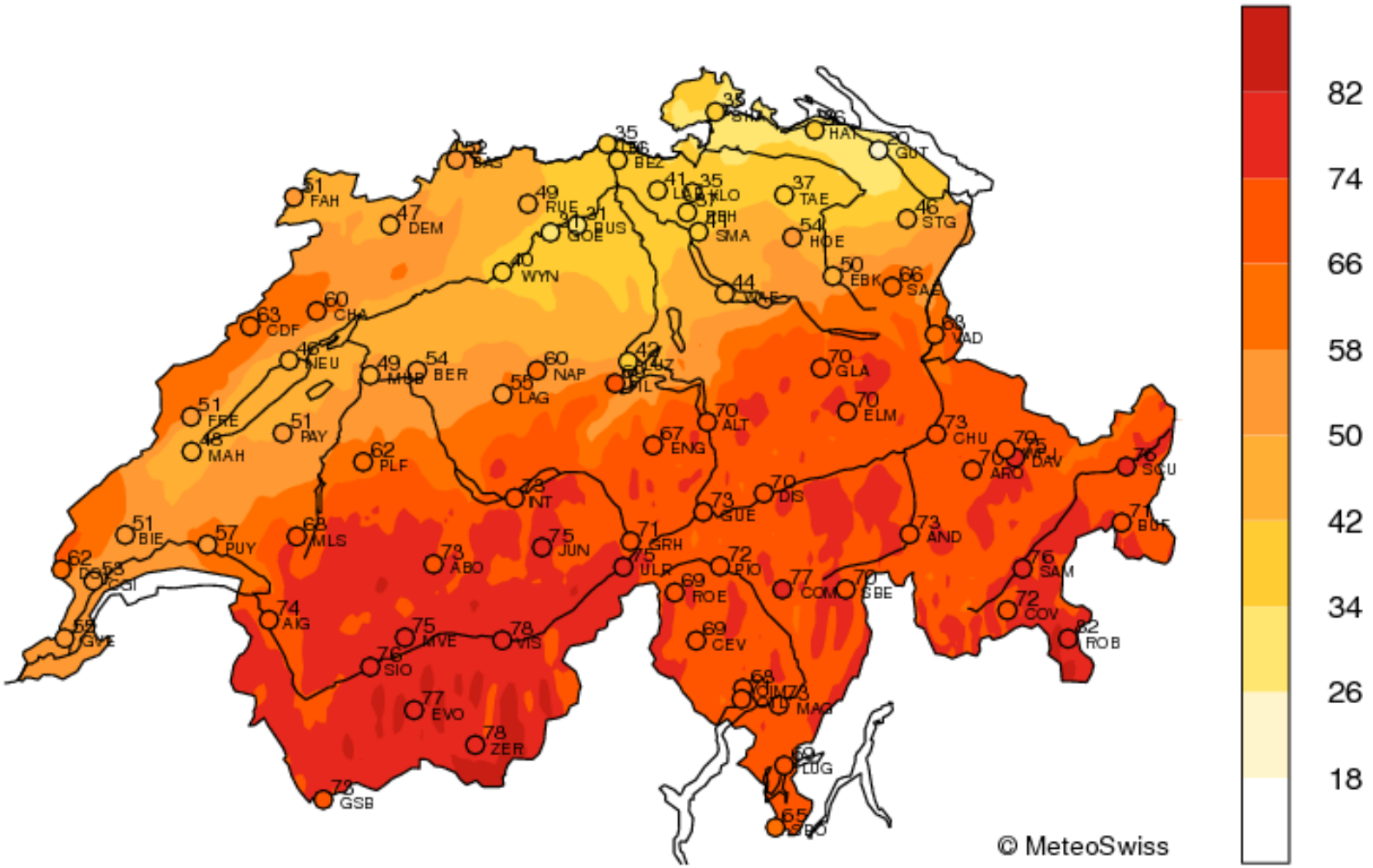

4 6 8 10 14 20 28 40 56 78 108 148 206 288 400
mm
mm

Grazie per l’attenzione!

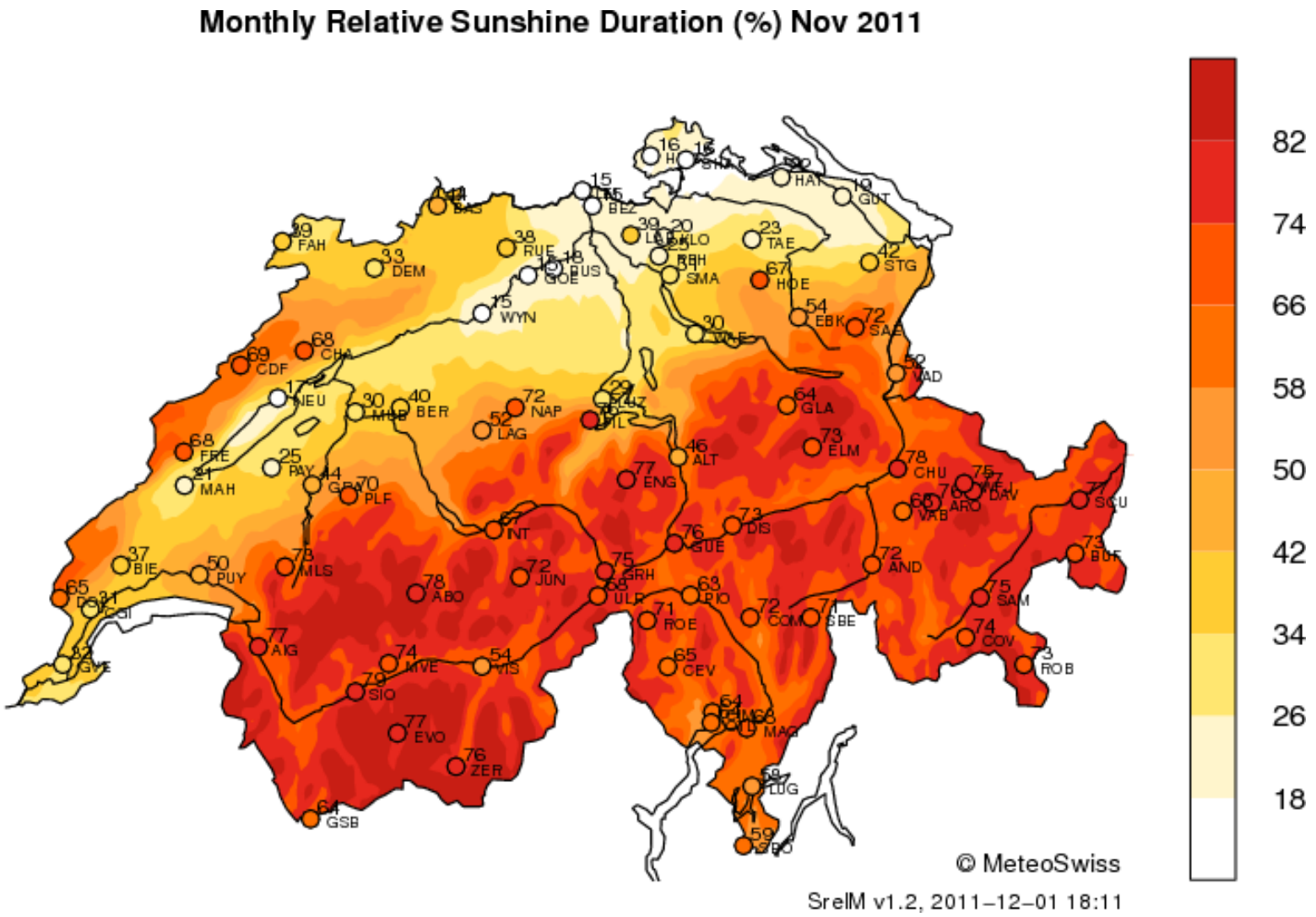
Soleggiamento relativo: settembre 2011



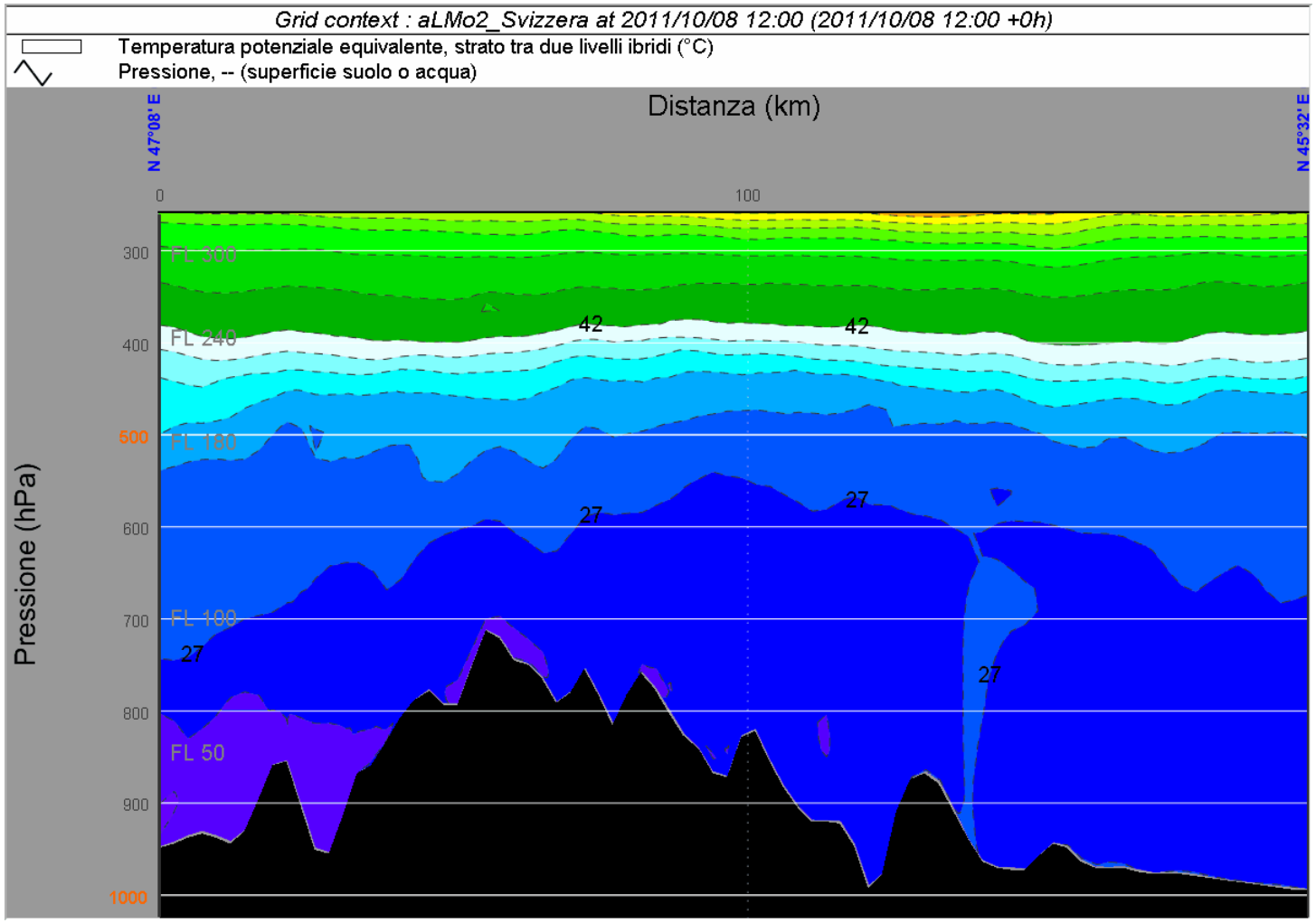
Soleggiamento relativo: ottobre 2011



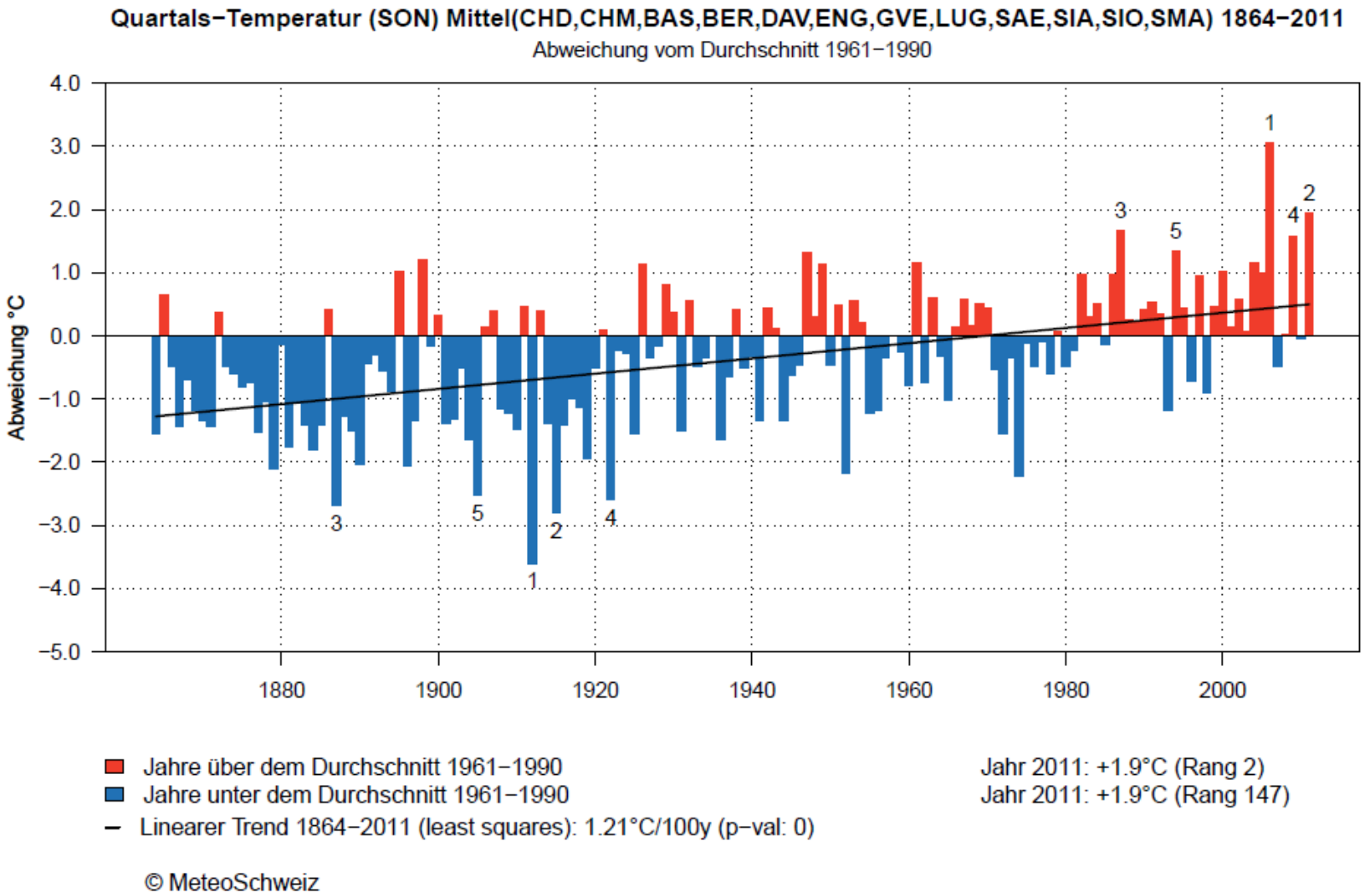
Soleggiamento relativo: novembre 2011



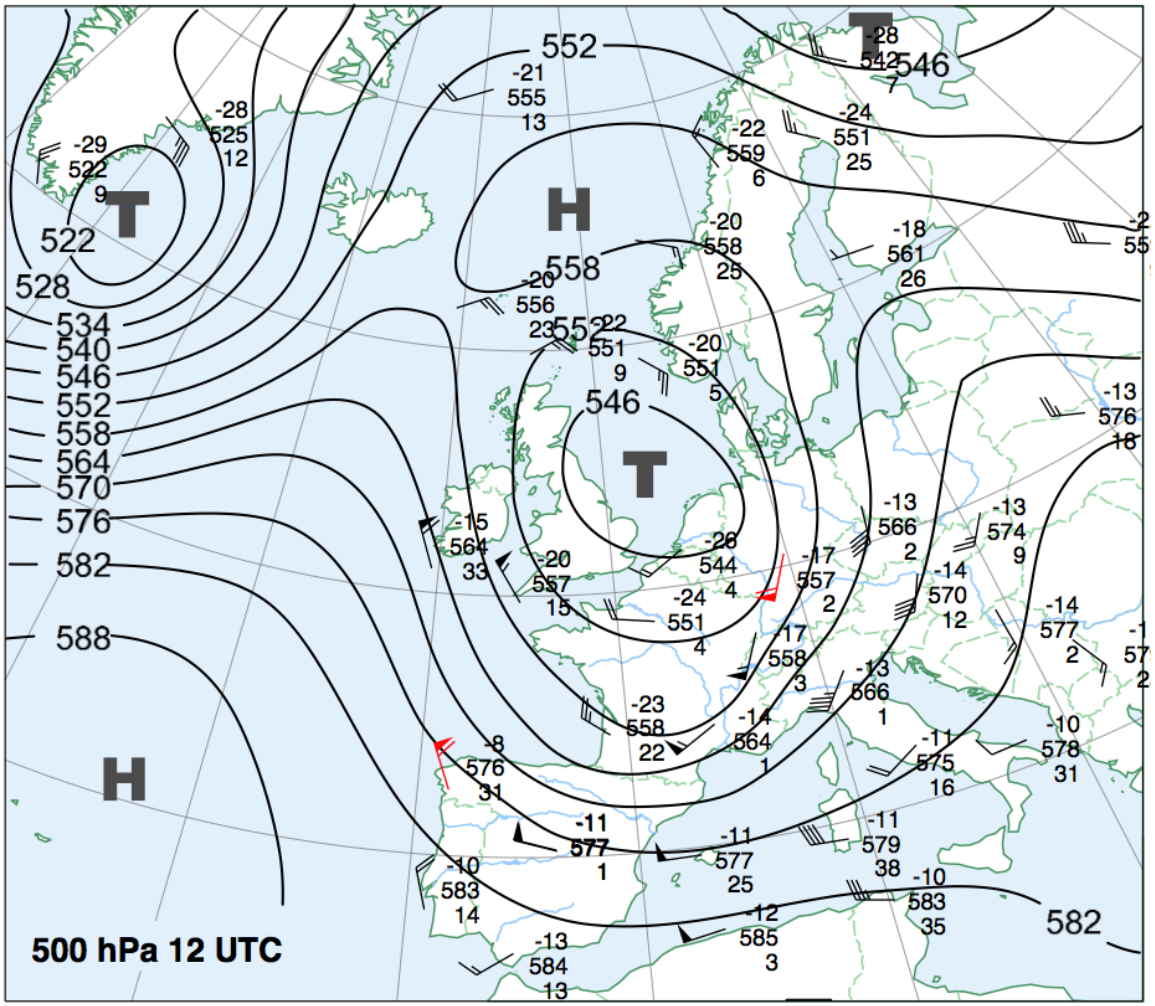
Temperatura: anomalie globali novembre 2011


Grid context : aLMo2_Svizzera at 2011/10/08 12:00 (2011/10/08 12:00 +0h)
Temperatura potenziale equivalente, strato tra due livelli ibridi (°C)
Pressione, -- (superficie suolo o acqua)
Distanza (km)
N 47°08' E
N 45°32' E
0
100
Pressione (hPa)
300
400
500
600
700
800
900
1000
FL 300
FL 240
FL 180
FL 100
FL 50
42
42
27
27
27
27

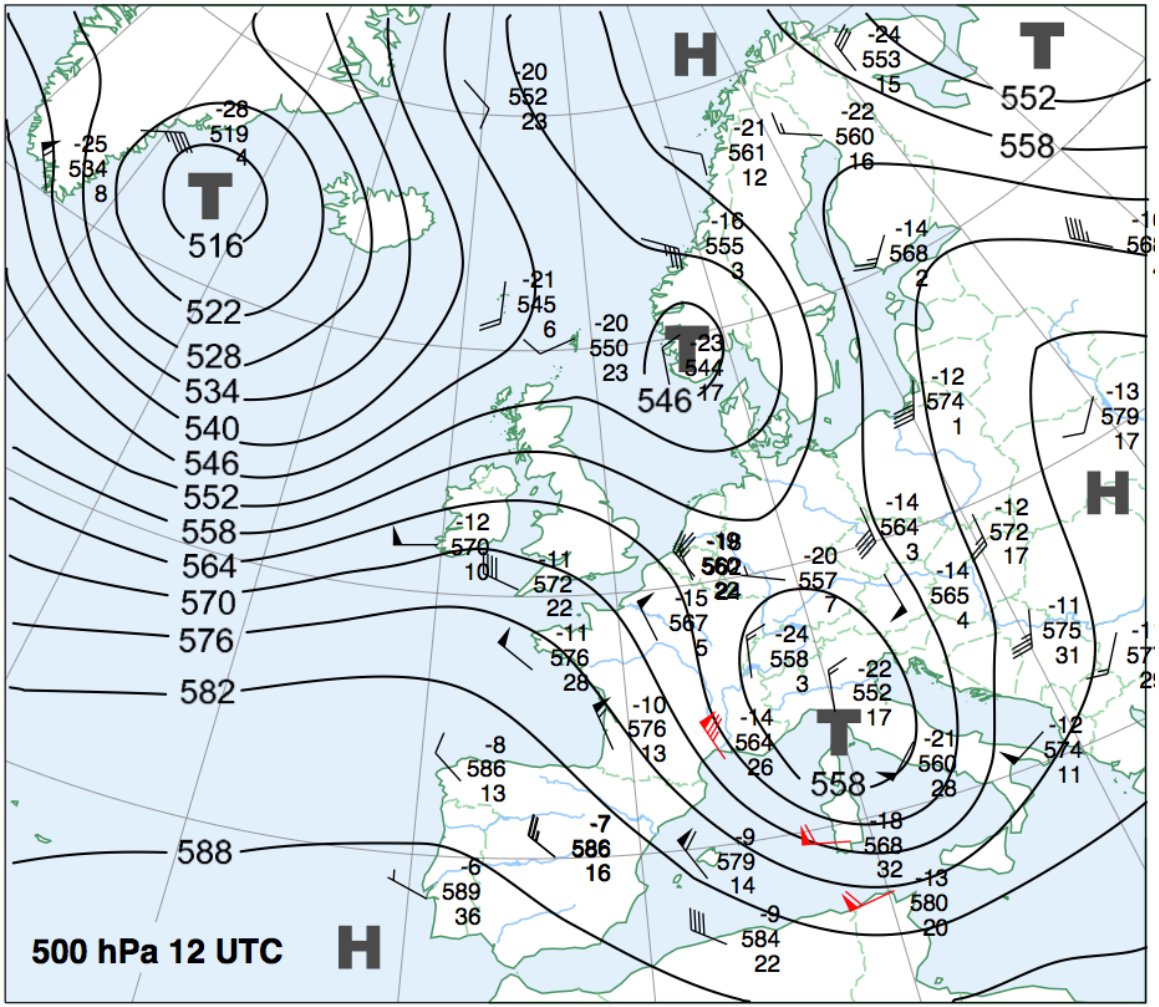
L ‘autunno CH 2011 rispetto agli altri



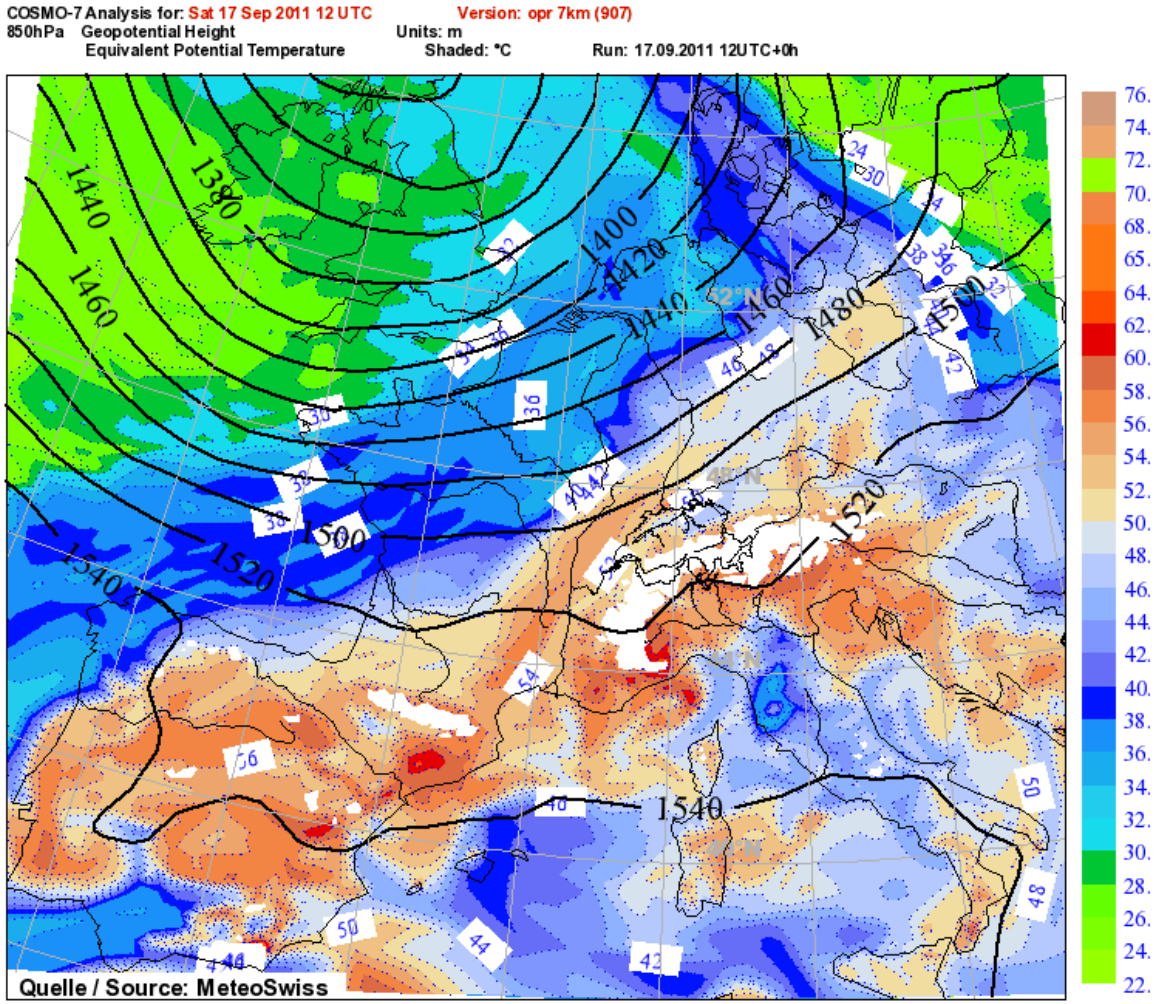
18 settembre 2011: Z@500 hPa



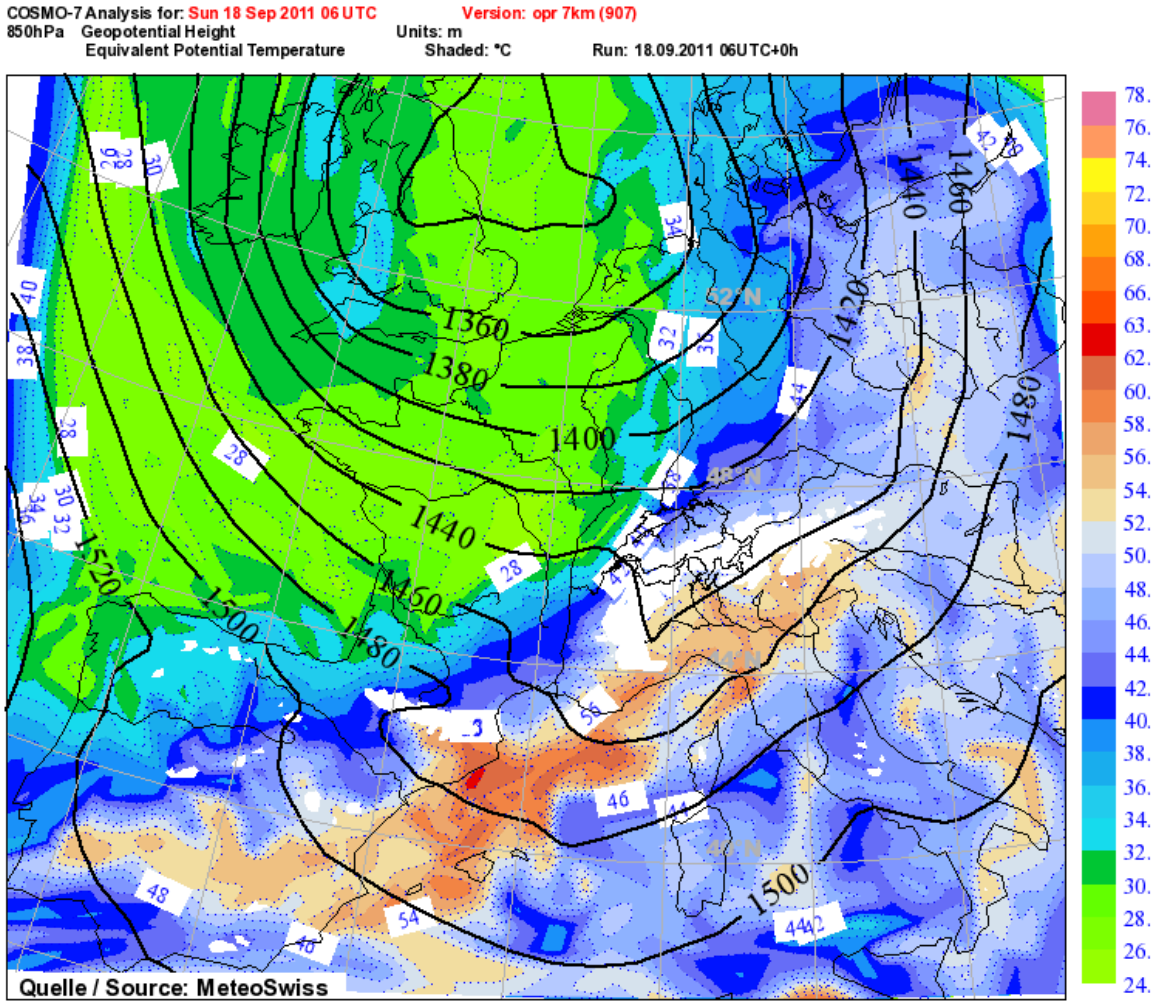
19 settembre 2011: Z@500 hPa



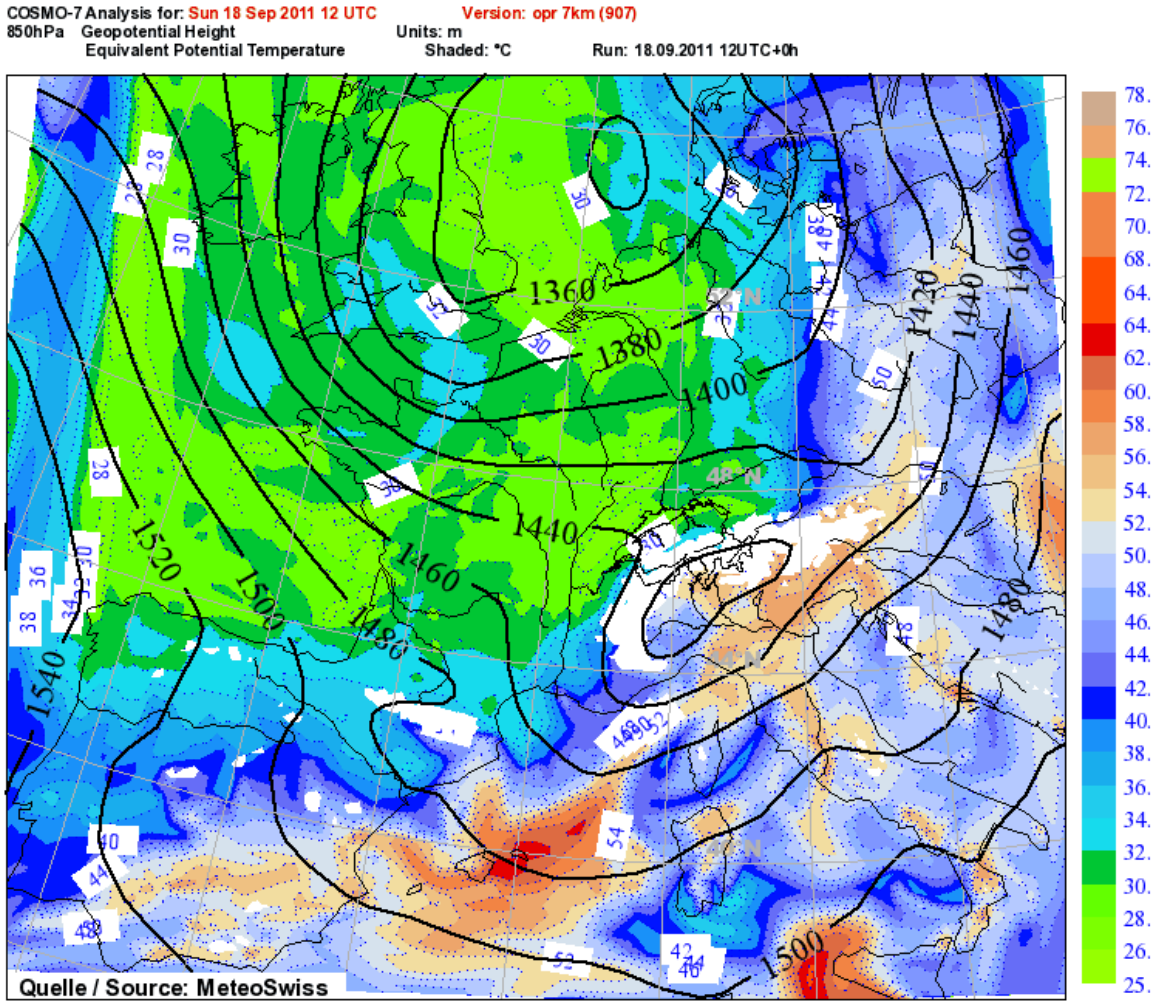
Temperatura equipotenziale 17 12UTC



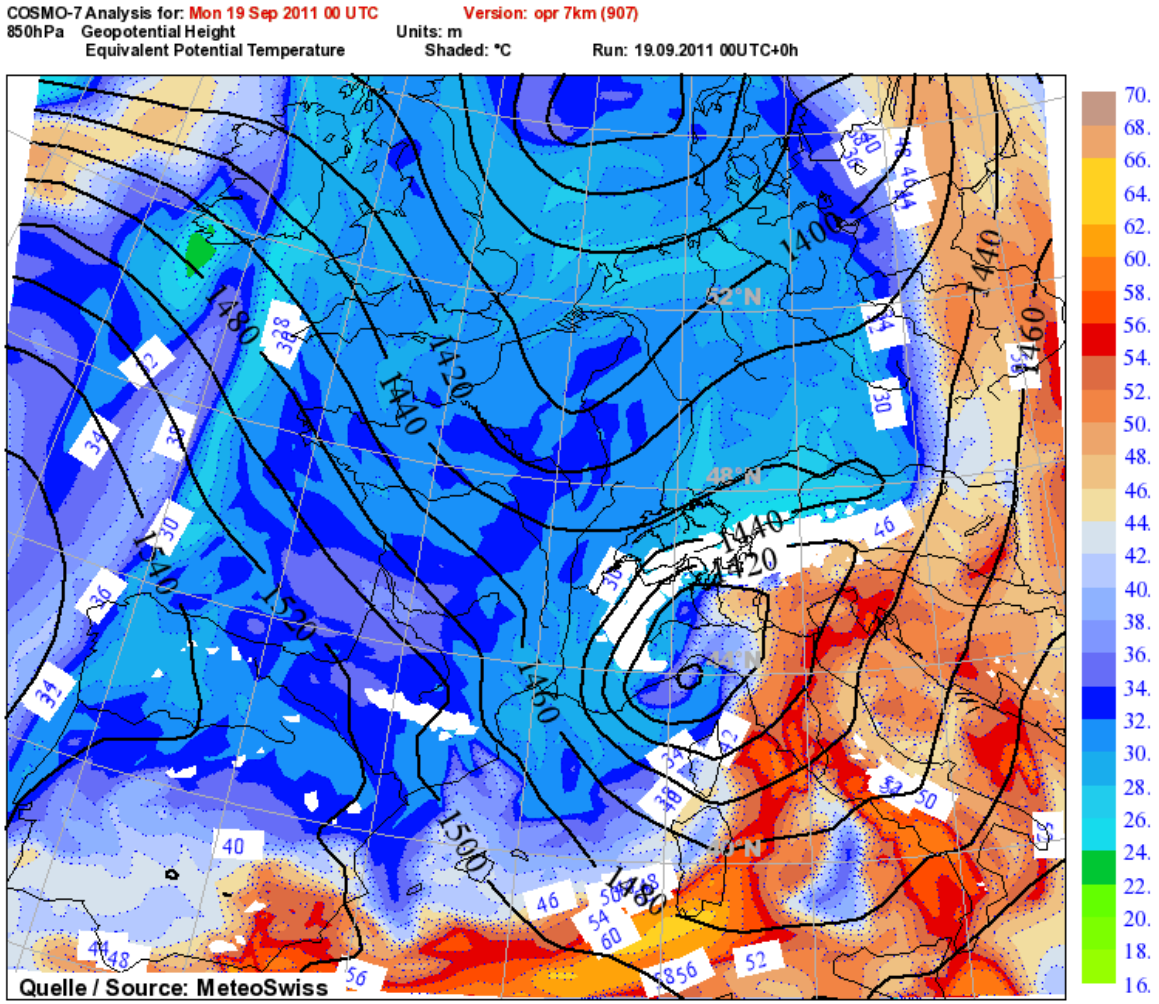
Temperatura equipotenziale 18 06UTC



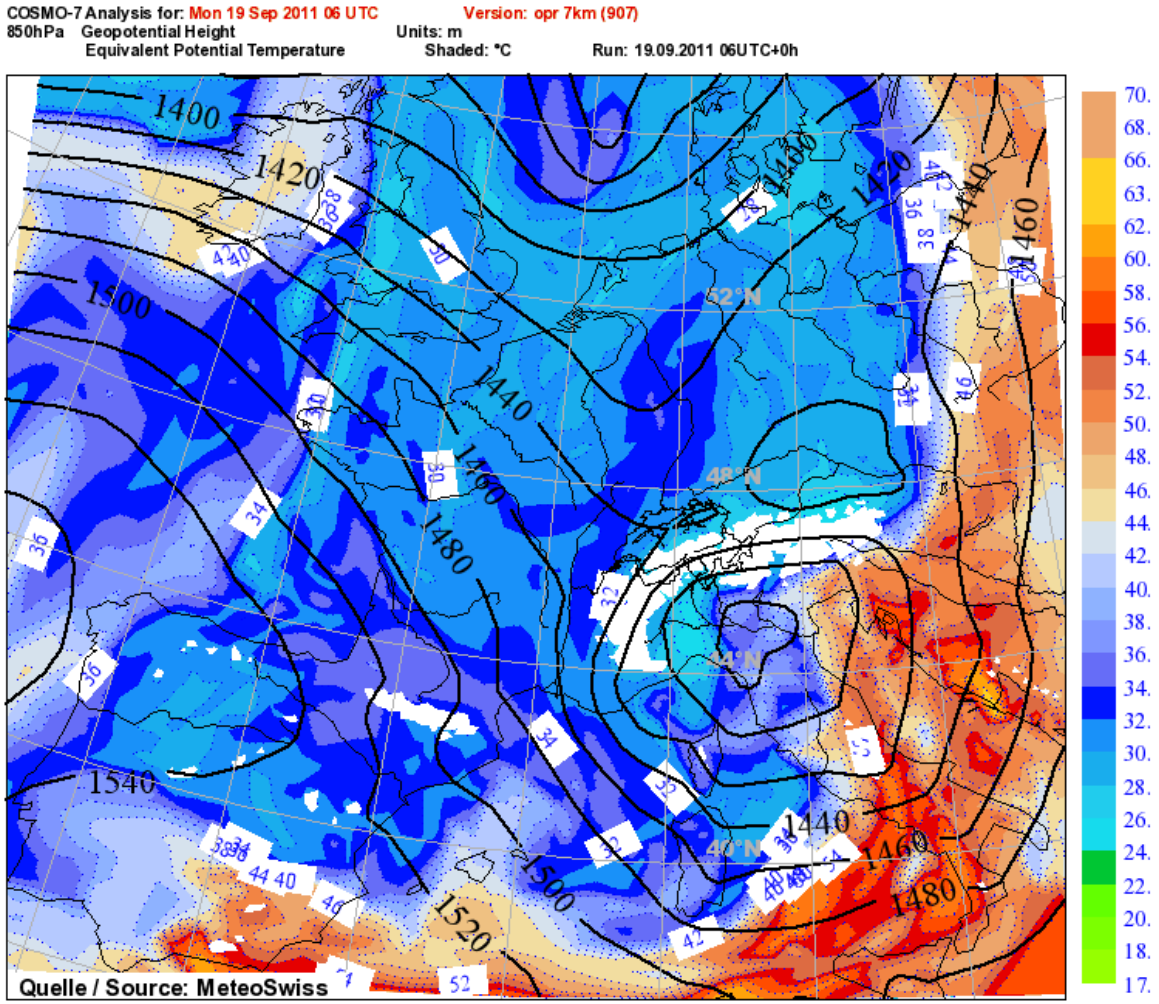
Temperatura equipotenziale 18 12UTC



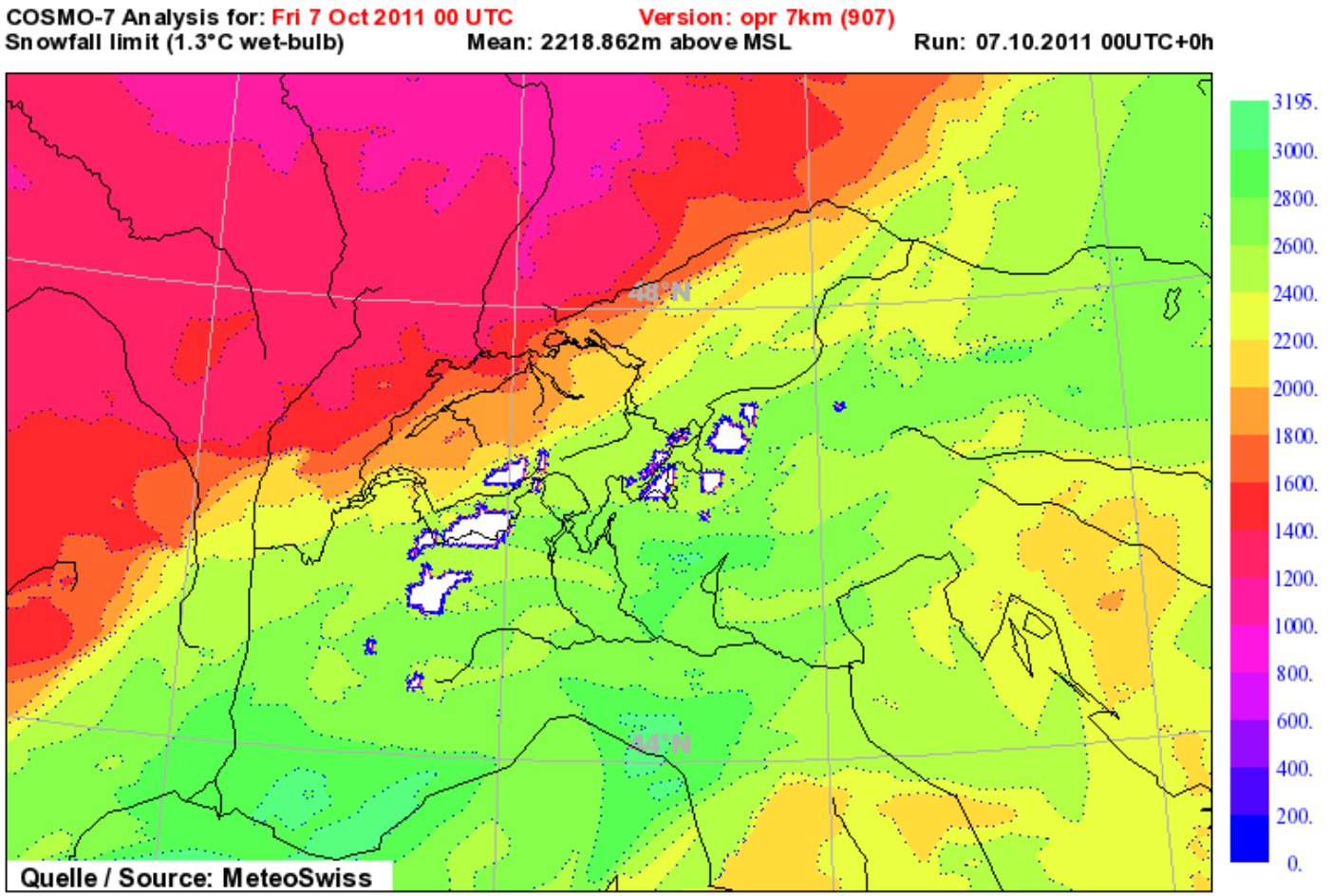
Temperatura equipotenziale 19 00UTC



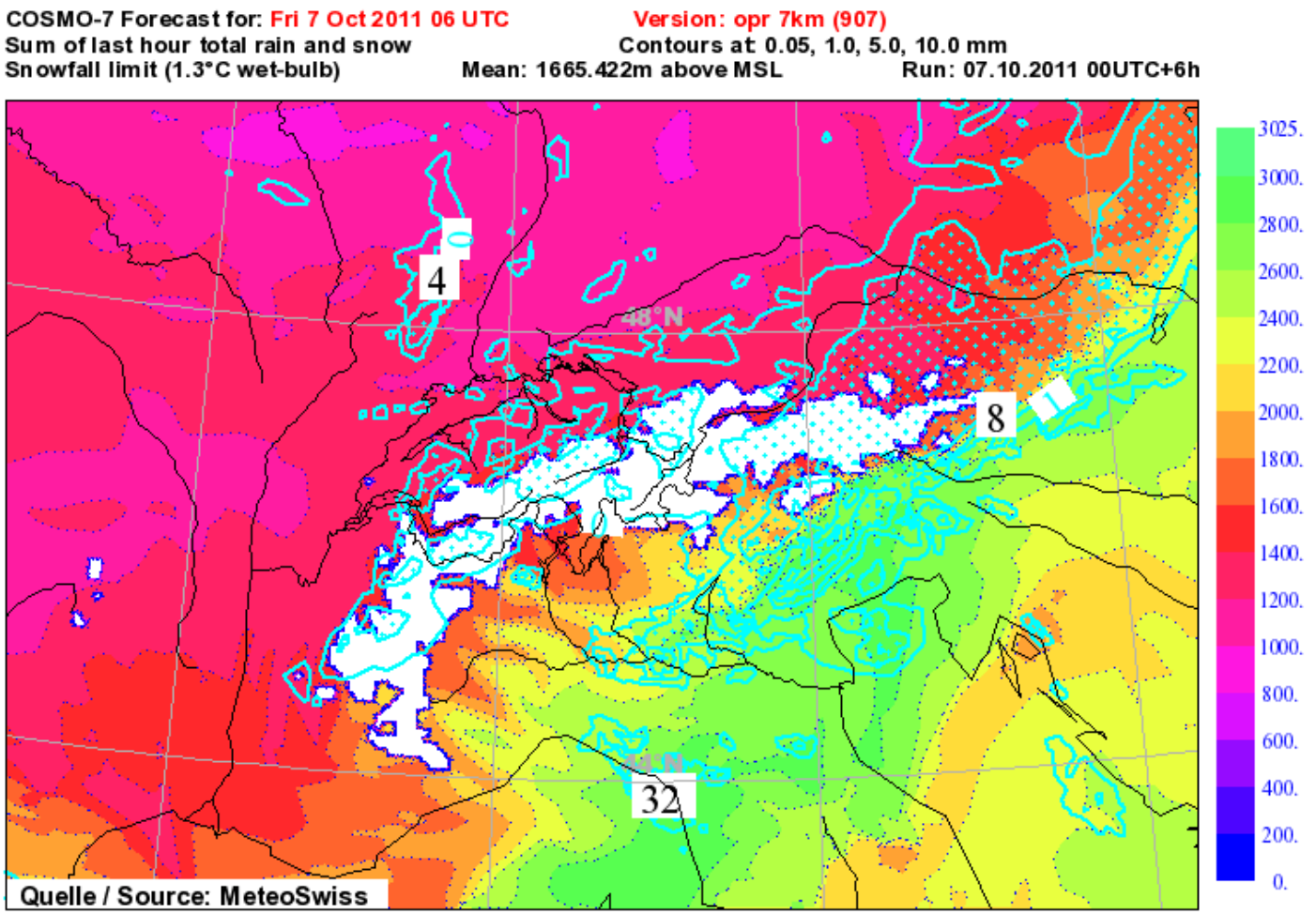
Temperatura equipotenziale 19 06UTC



Limite delle nevicate 7 00UTC



Limite delle nevicate 7 06UTC



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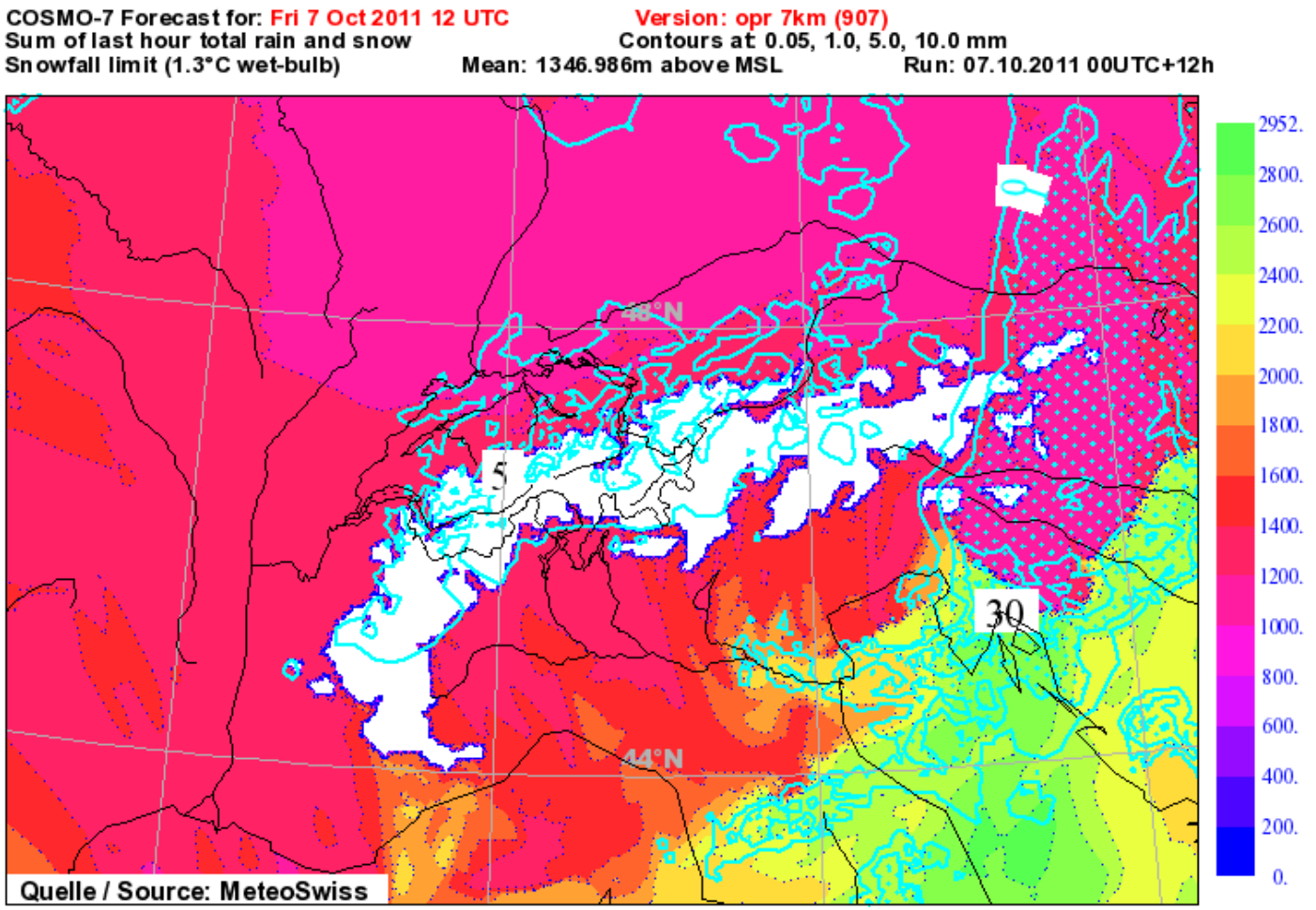

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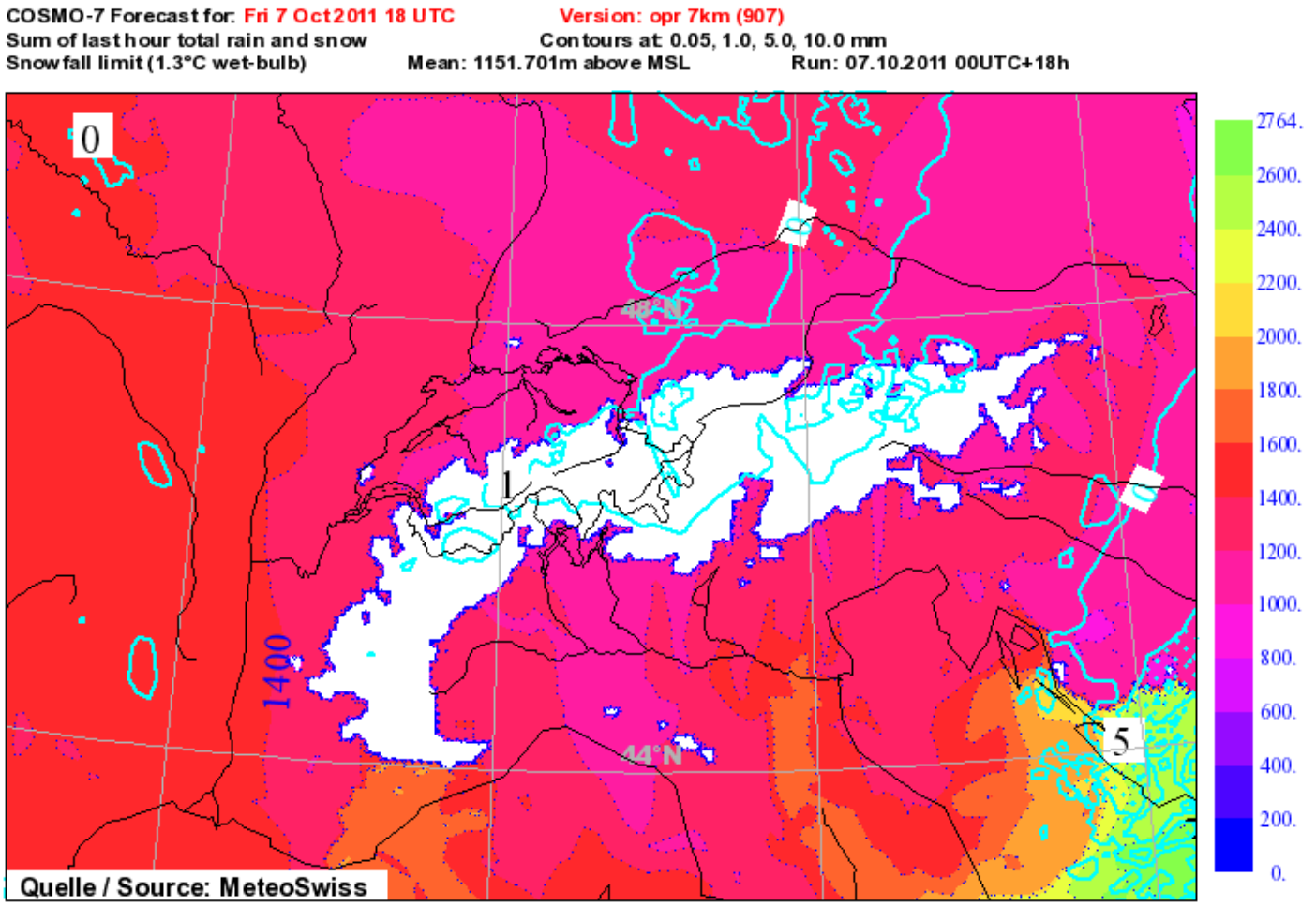

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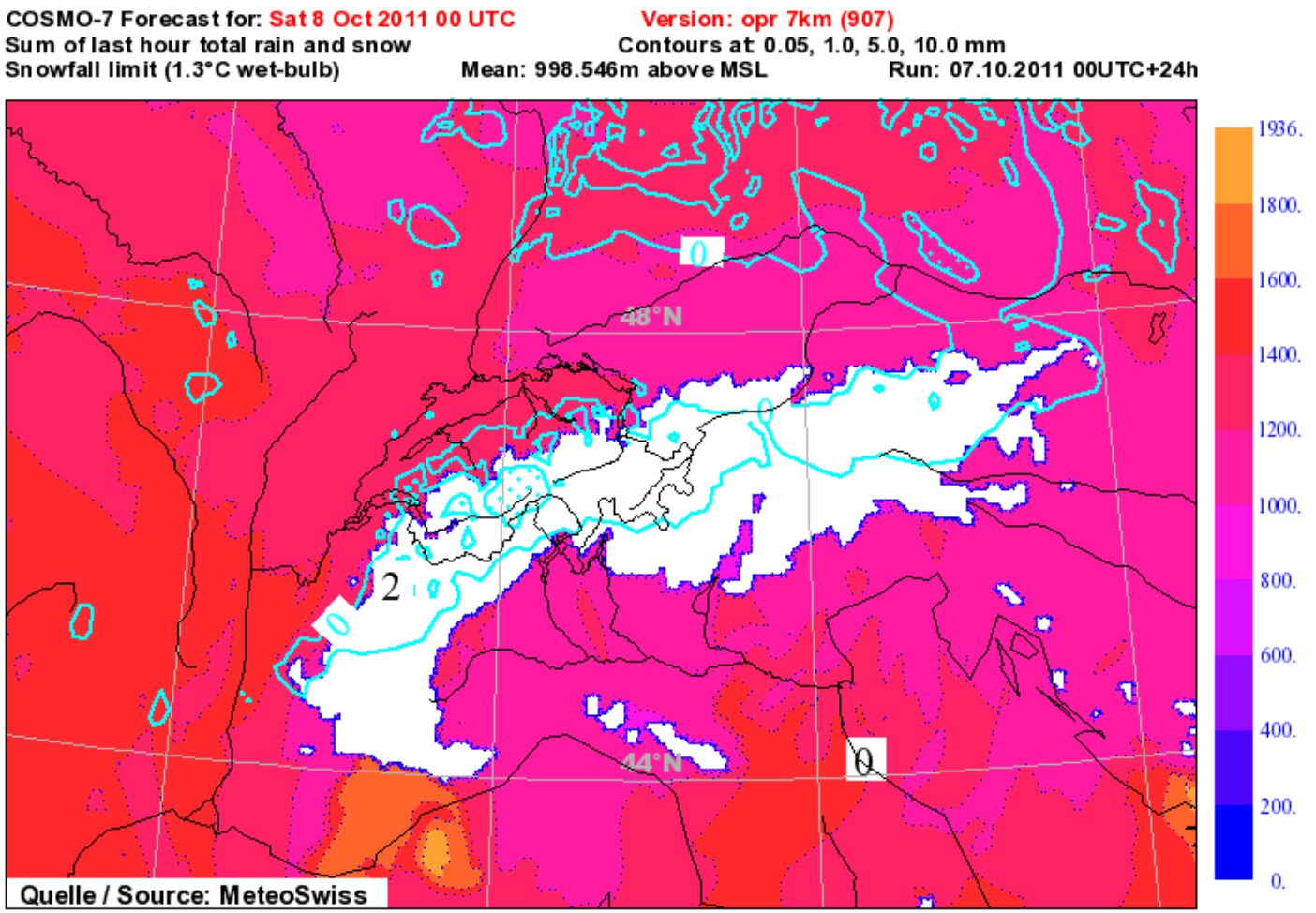

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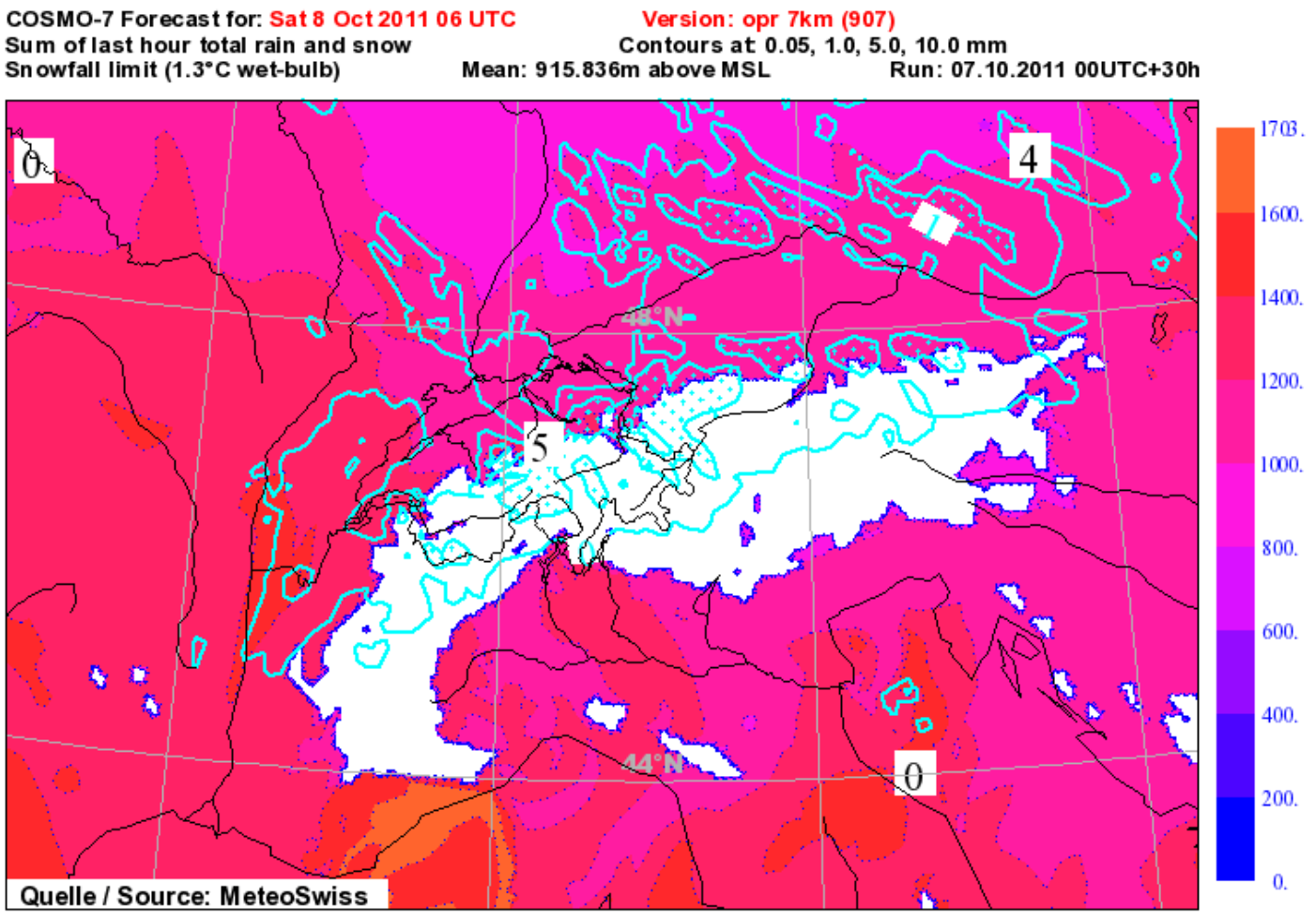

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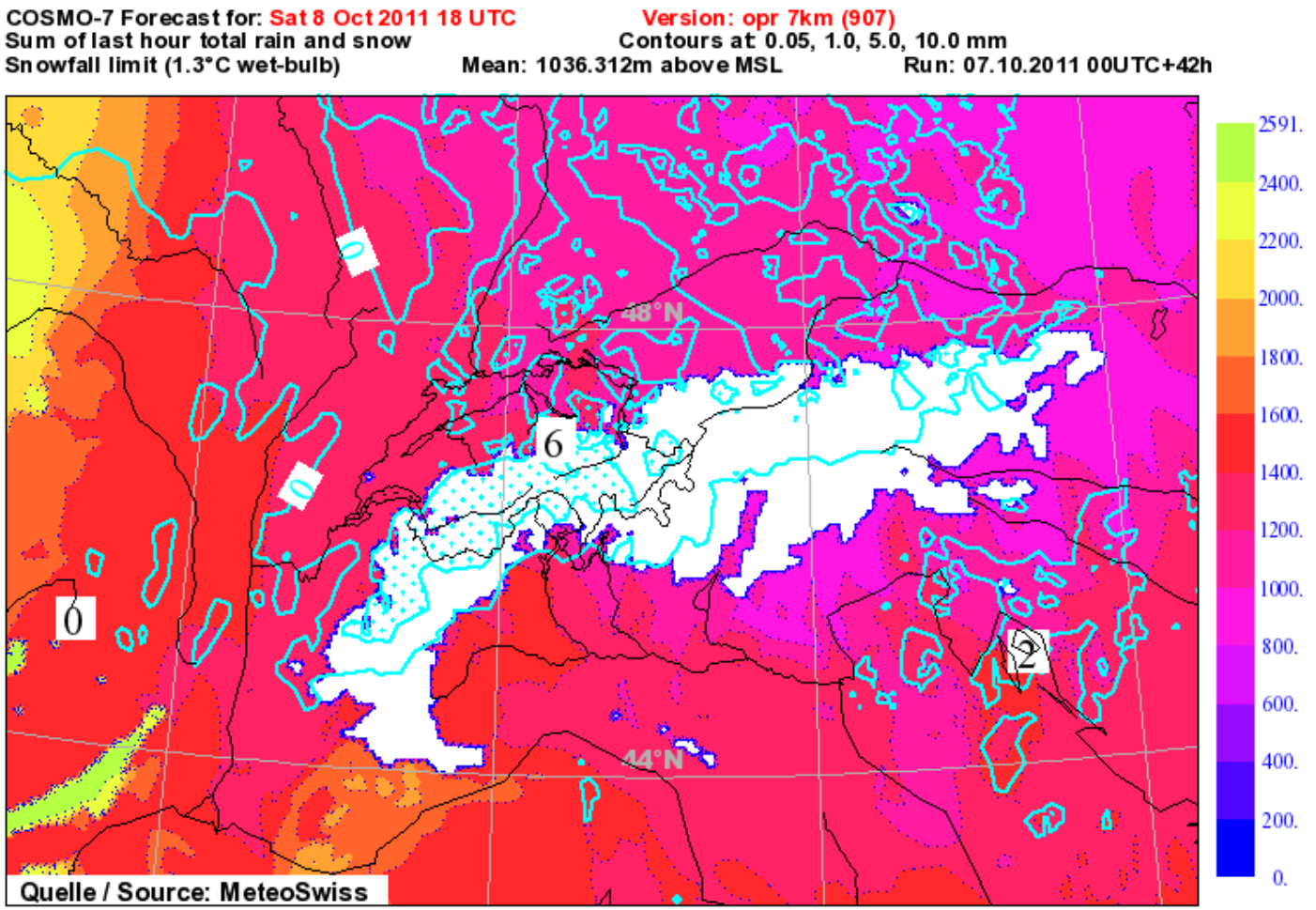

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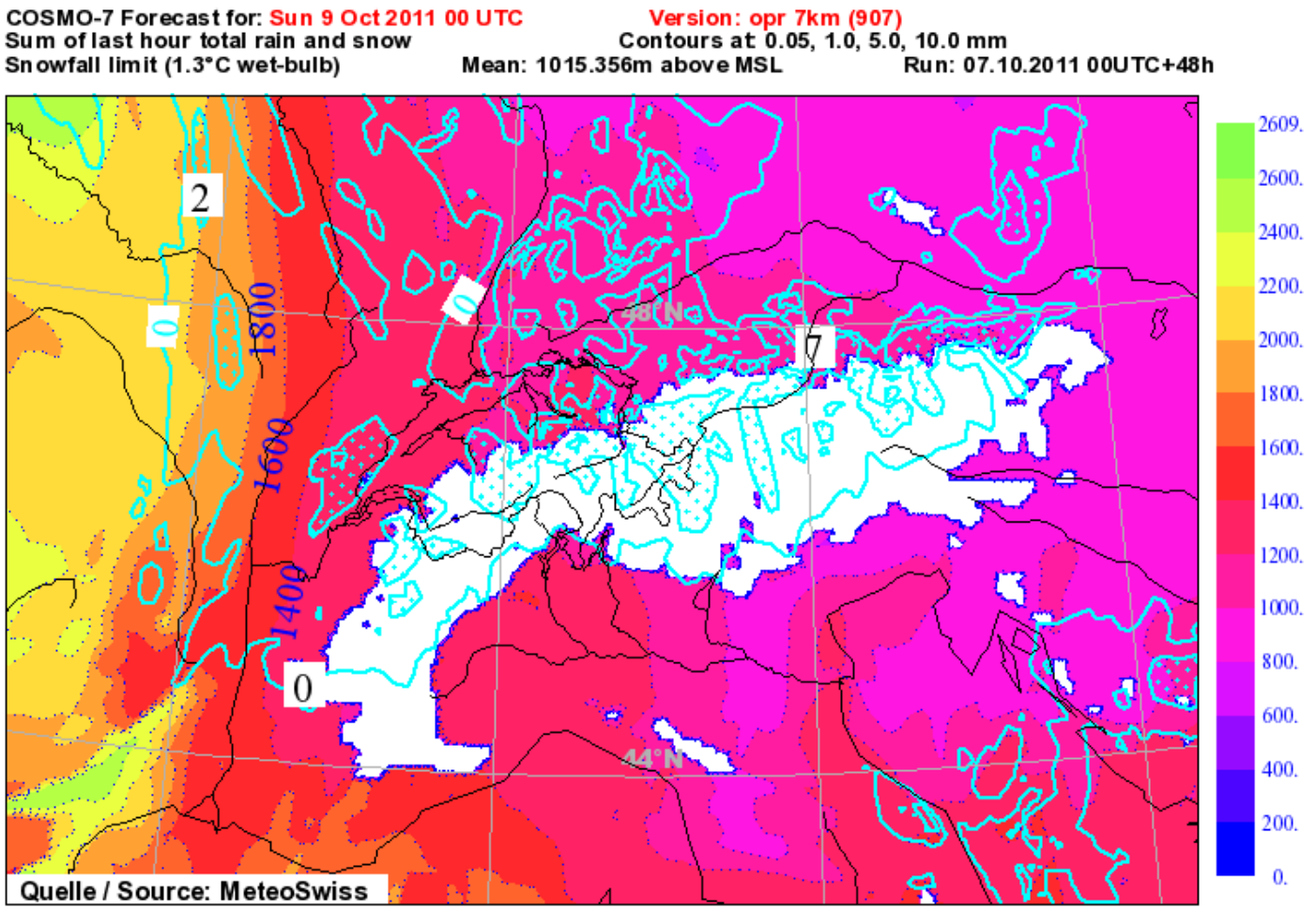

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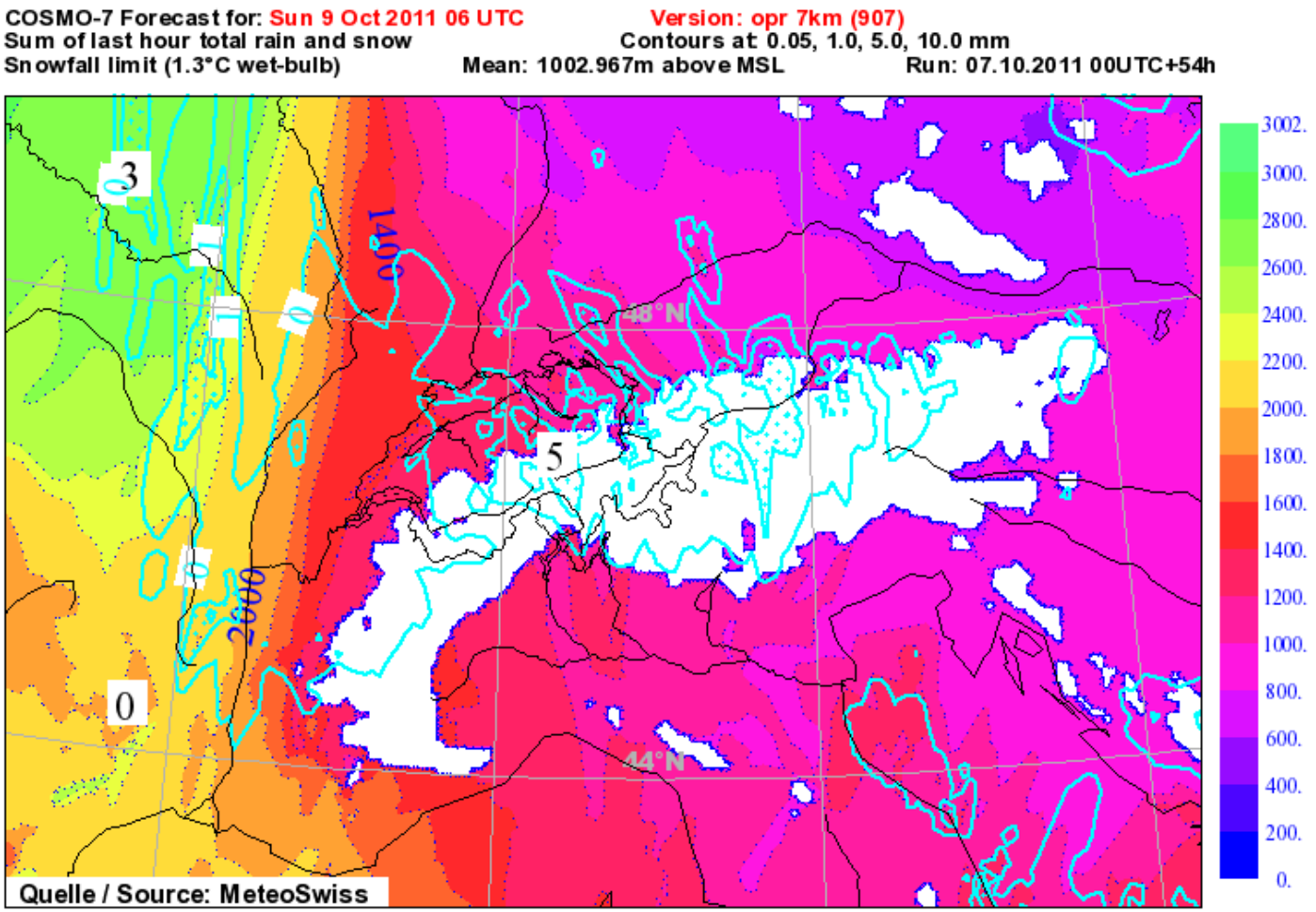

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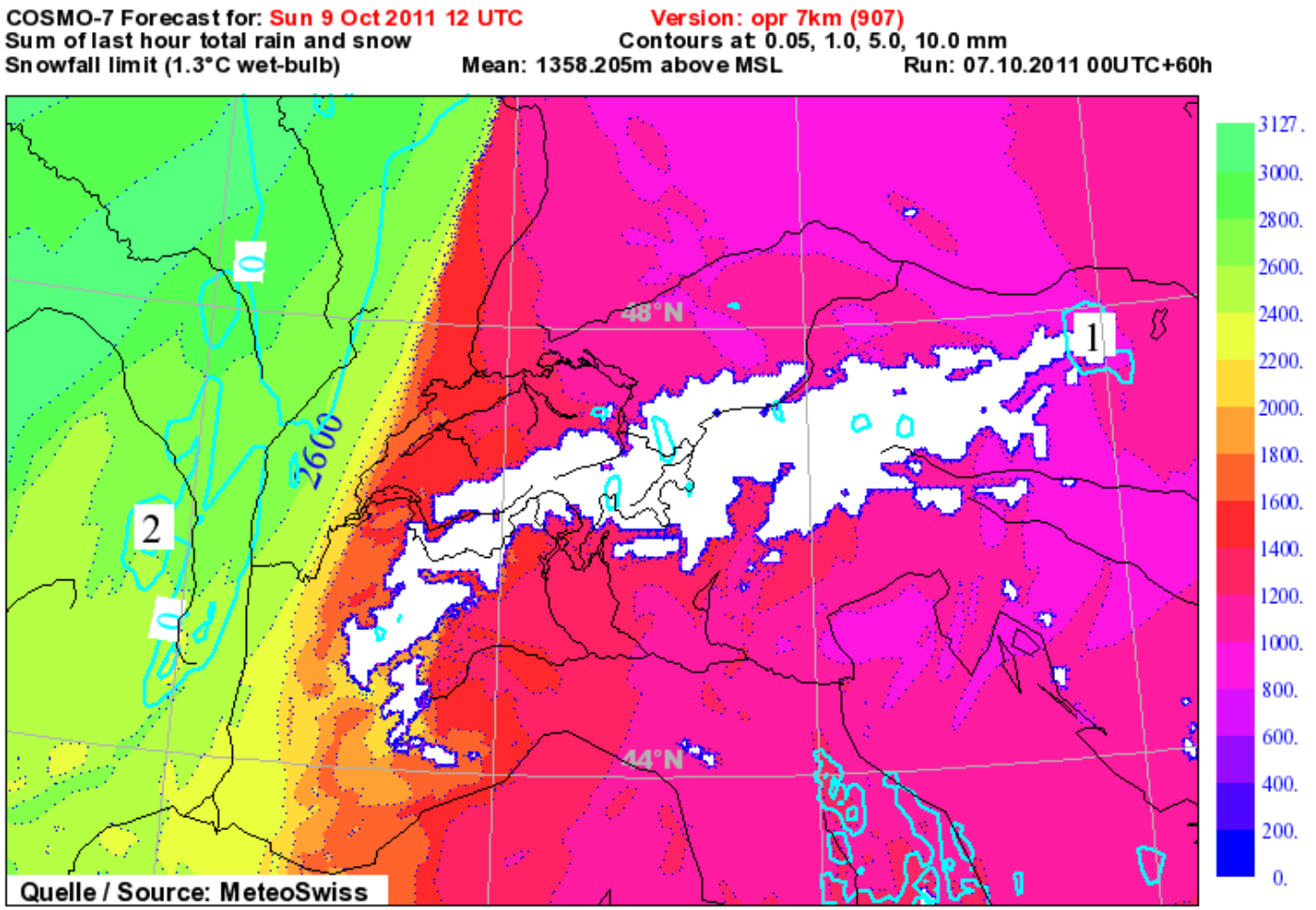

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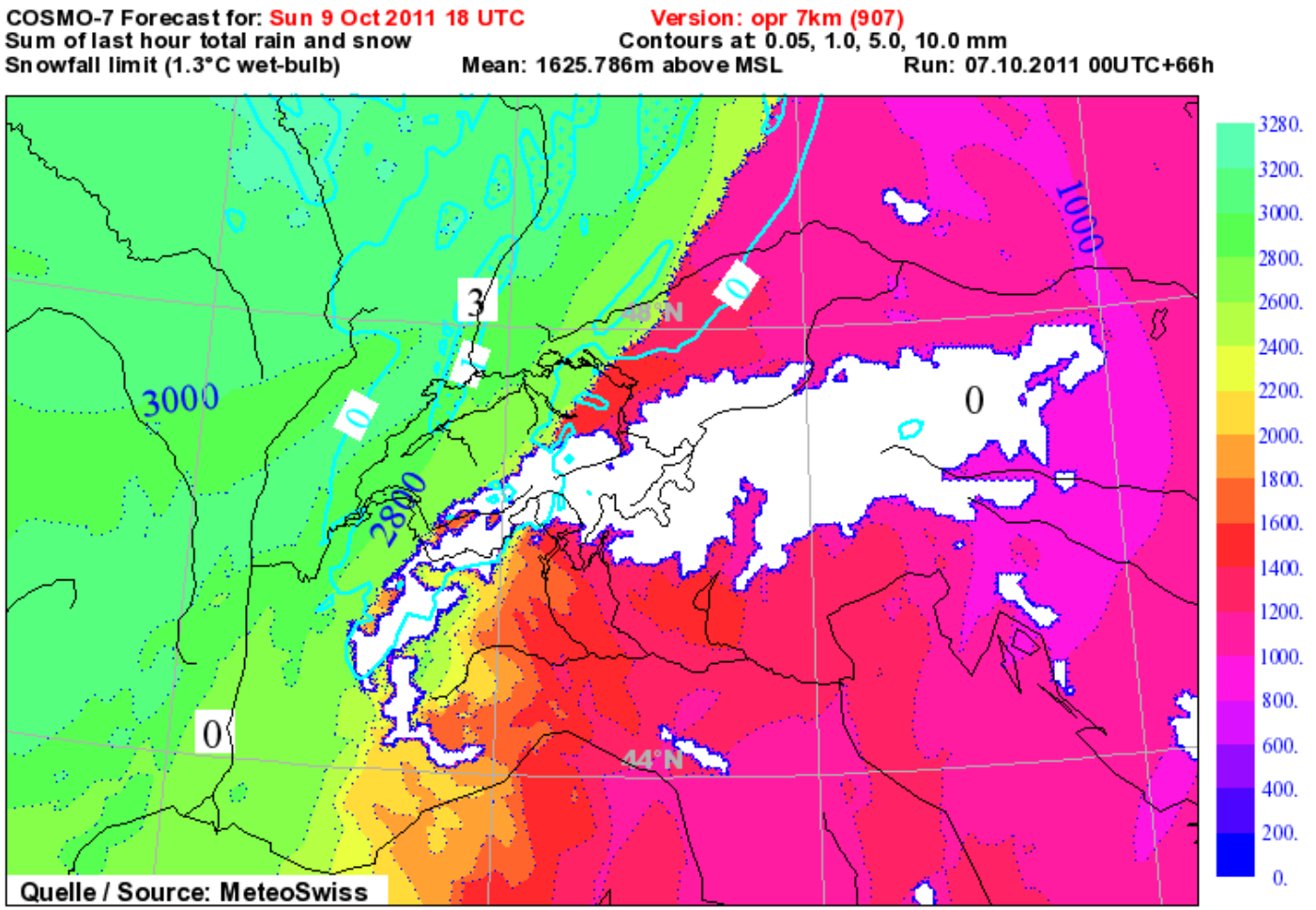

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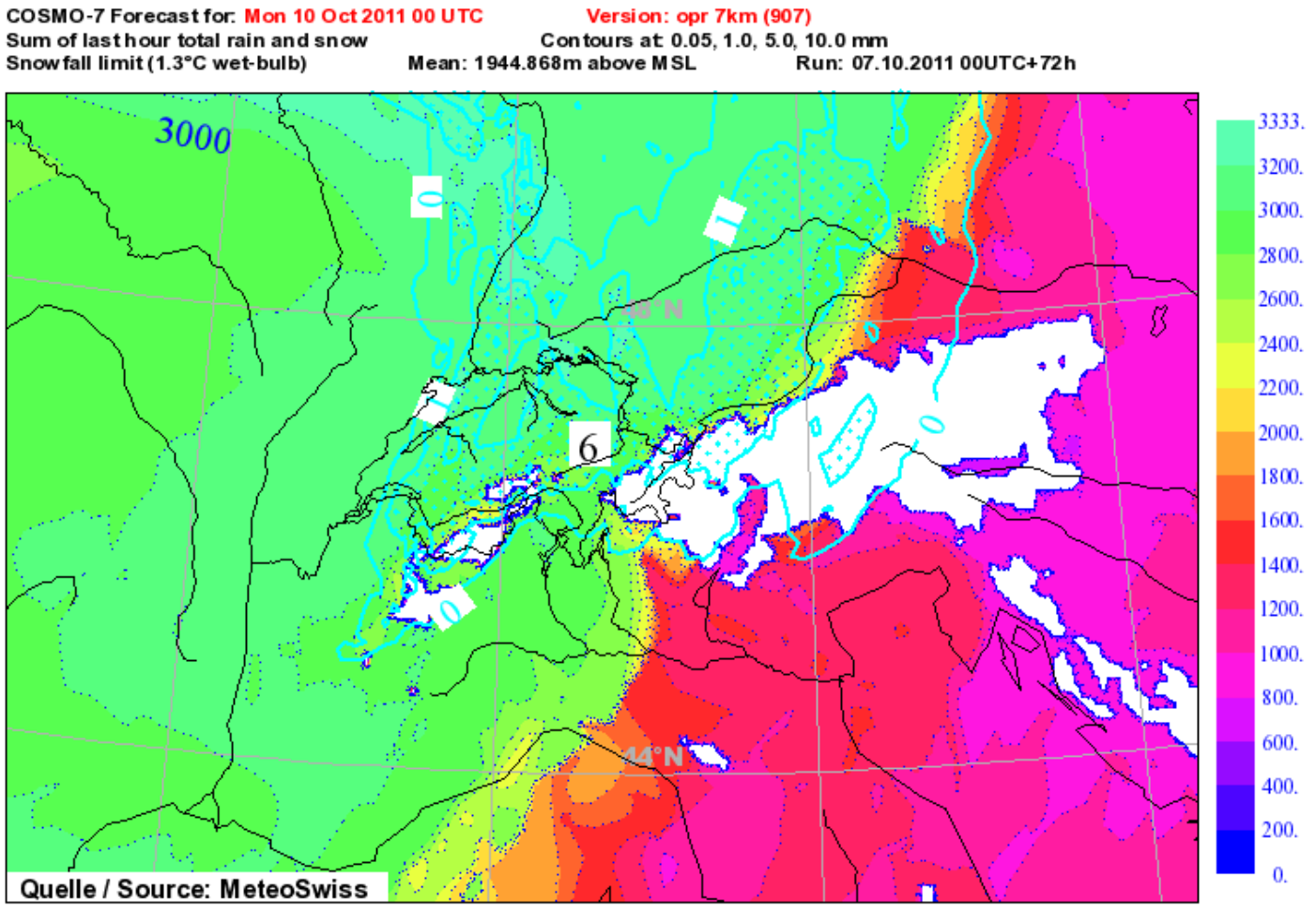

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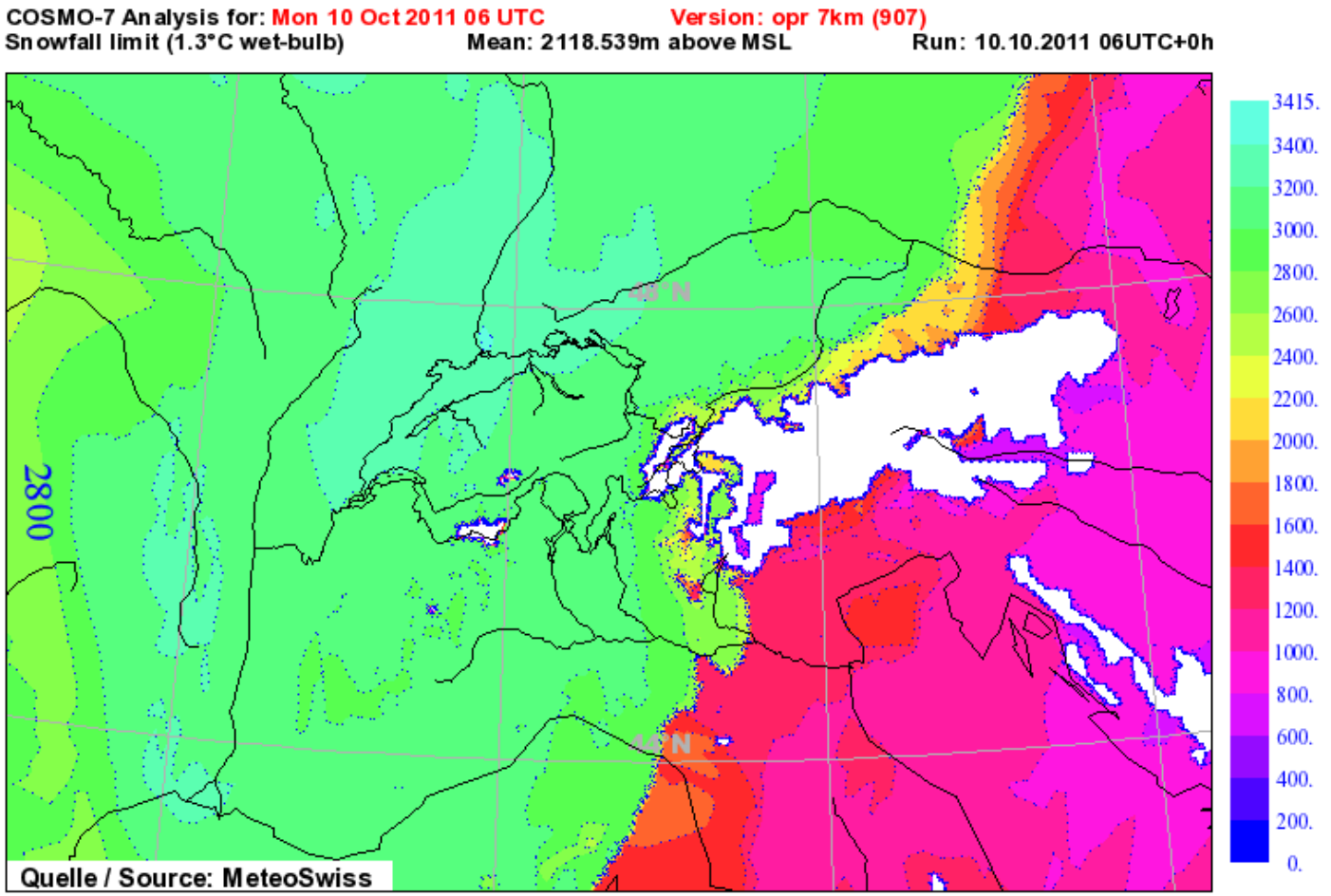

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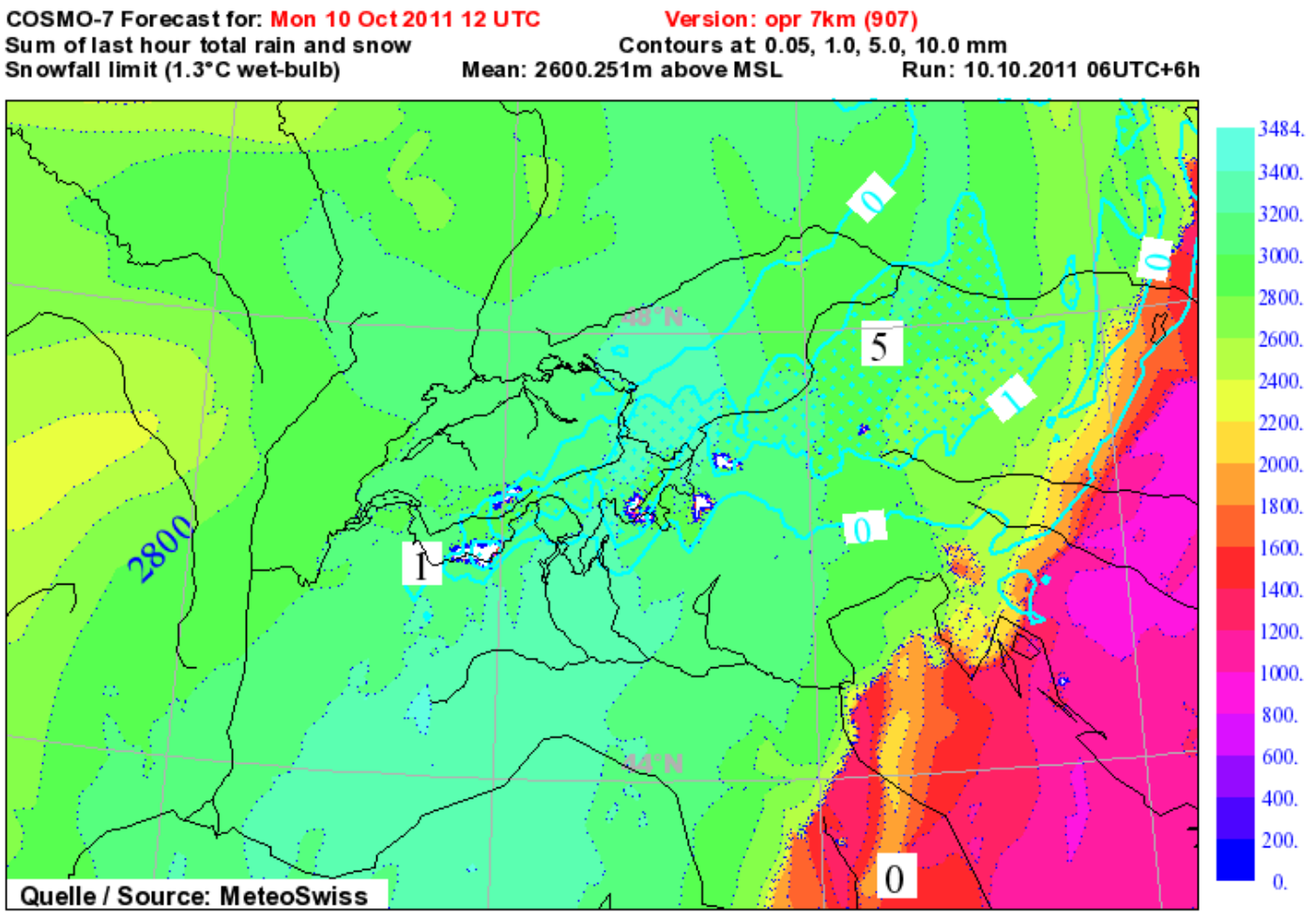

Evoluzione della temperatura e del limite delle nevicate