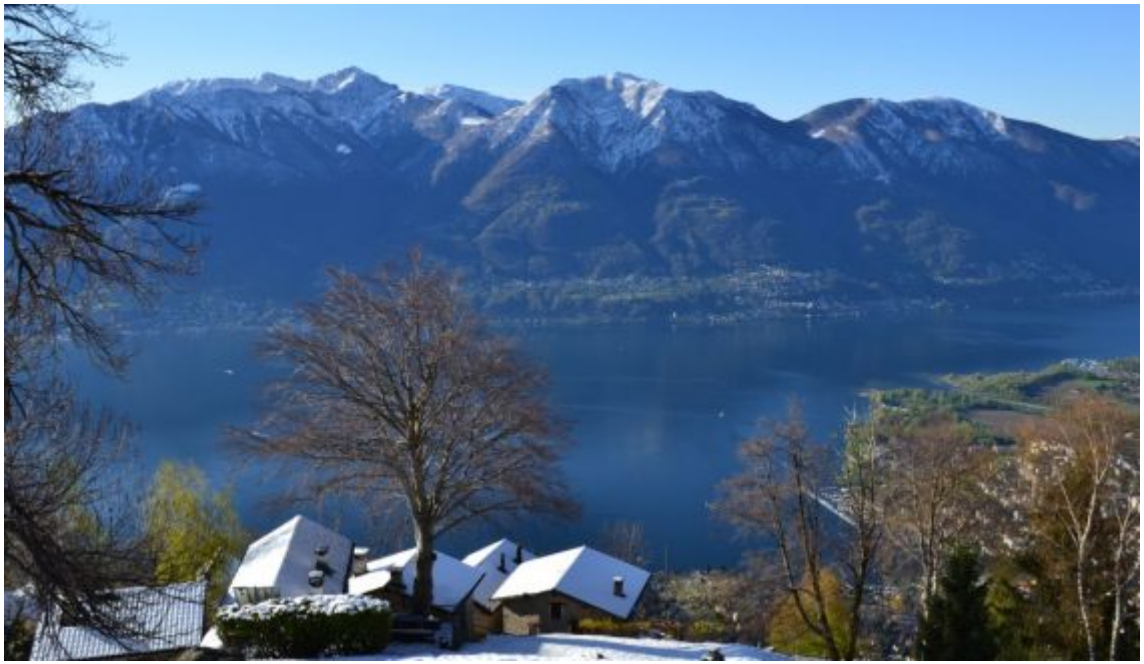
Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

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

Primavera 2012

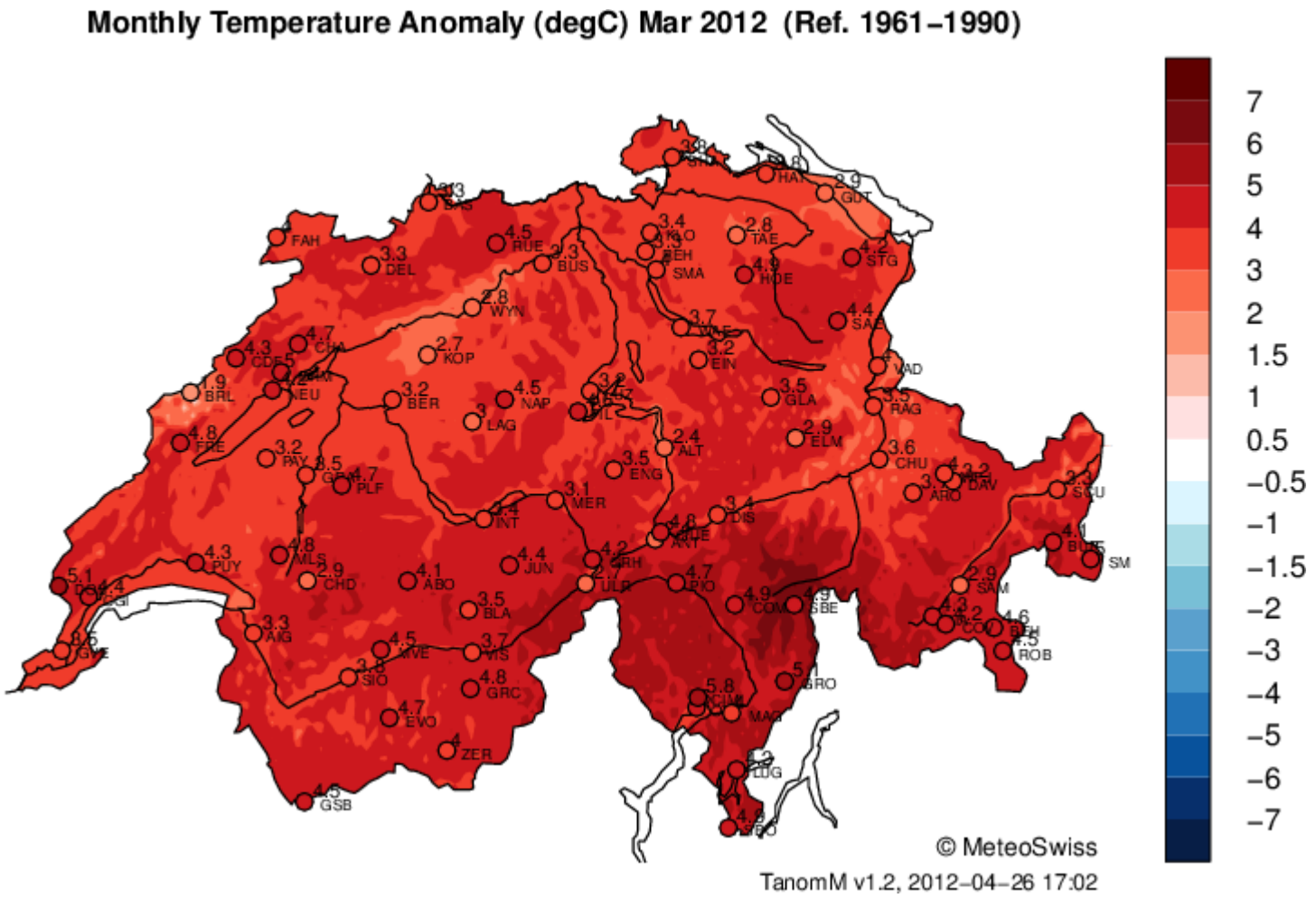


Retrospettiva meteoclimatica

Matteo Buzzi

0.

Temperatura: marzo 2012



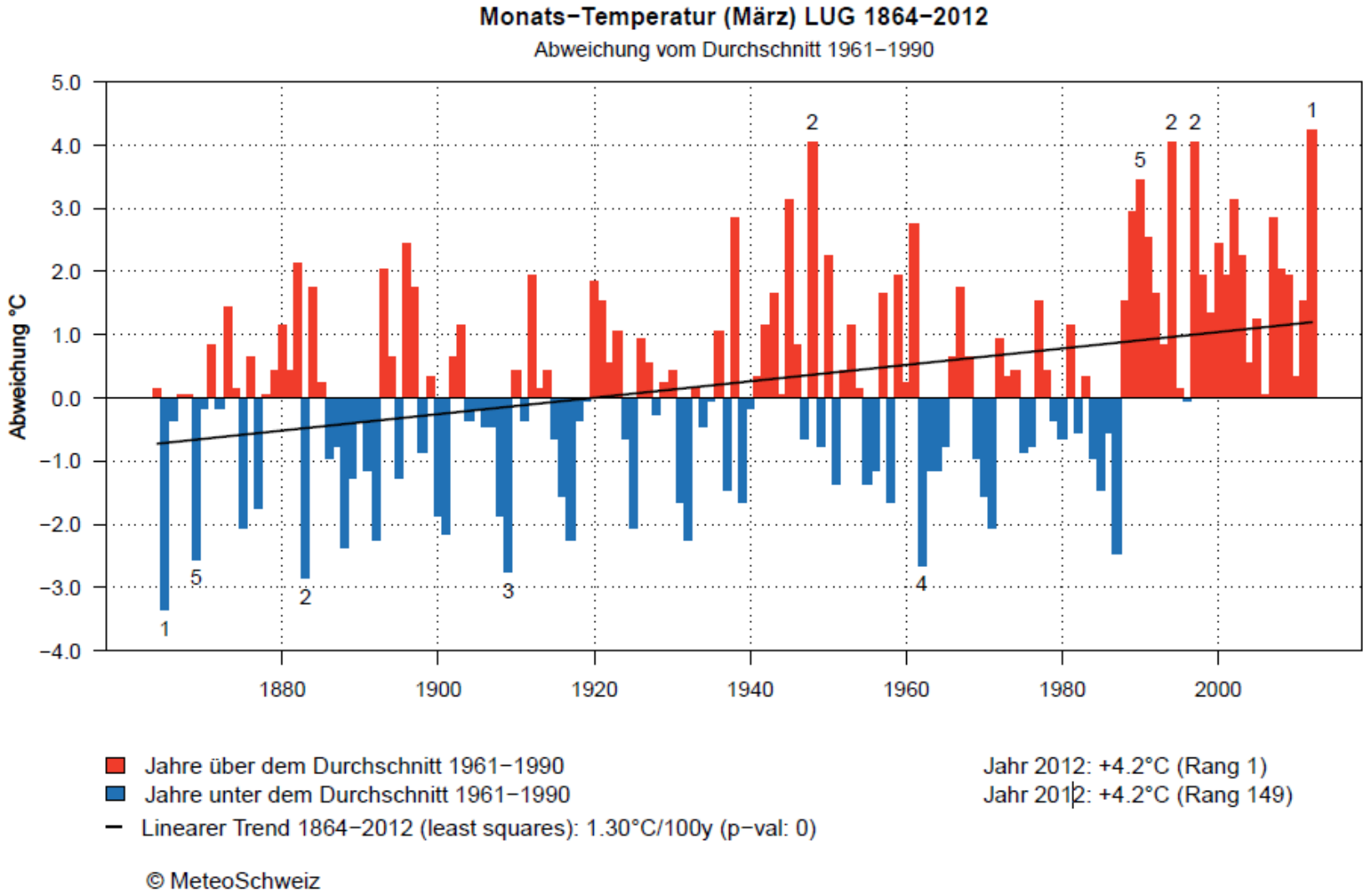
Temperatura: marzo 2012

Abweichung vom Temperaturmittel (degC) **März 2012** Referenzperiode: 1961 – 1990

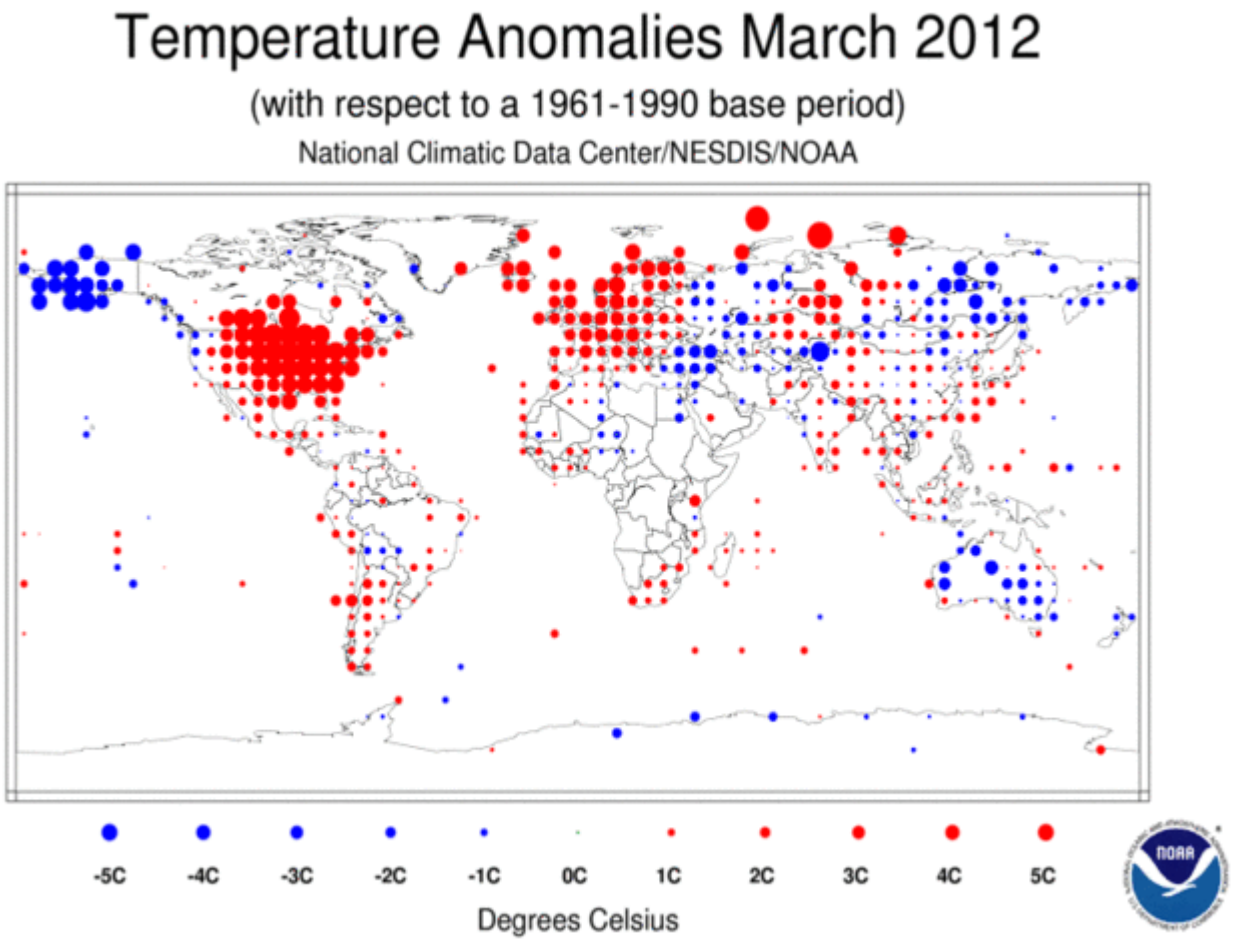
	N/NW–CH				Mittelland West				Mittelland Zentral/Ost								Täler Alpennordhang					Jura			Berglagen						Täler GR					Wallis					Alpensüdseite								
	SHA	RUE	BAS	FAH	GVE	PUY	NEU	BER	WYN	LUZ	BUS	GUT	KLO	TAE	SMA	STG	CHU	VAD	ALT	ENG	ABO	CDF	CHA	DOL	MLS	NAP	PIL	SAE	WFJ	JUN	DAV	SCU	SAM	HIR	DIS	ULR	VIS	SIO	MVE	ZER	ROB	SBE	CIM	PIO	COM	OTL	LUG	SBO	
1	5.2	6.7	4.1	6.5	2.3	4.5	3.4	3.4	2.9	3.3	3.6	4.0	5.1	3.0	5.0	5.3	5.4	5.9	1.3	6.2	9.2	6.4	11.4	11.4	12.4	11.7	12.9	12.4	12.6	11.7	6.8	5.6	5.0	NA	7.7	3.0	3.8	4.6	9.6	8.7	6.8	8.9	11.5	5.9	8.5	8.5	4.8	5.9	1
2	4.6	8.9	4.4	7.9	3.5	6.1	4.2	5.2	3.0	5.2	4.7	3.1	5.2	4.7	7.4	9.4	5.5	8.0	2.8	7.7	9.0	5.6	11.2	11.5	11.0	11.4	11.1	10.4	10.0	10.9	7.1	6.1	5.4	NA	7.6	2.9	4.5	5.7	8.6	7.9	7.1	11.8	13.1	7.6	8.3	8.7	5.3	6.5	2
3	5.5	6.6	5.5	5.5	5.2	6.7	5.8	5.5	4.0	5.2	5.6	3.3	5.4	5.7	6.9	8.0	5.3	5.8	4.4	6.6	7.1	5.2	7.3	6.2	6.4	8.4	7.1	7.0	6.9	6.7	6.9	6.0	5.9	NA	6.6	4.4	4.3	5.4	6.5	5.6	6.3	10.2	9.3	8.6	6.8	6.0	4.8	5.7	3
4	4.0	3.5	3.5	3.3	3.7	4.9	4.2	3.4	2.4	3.4	3.2	3.5	3.8	3.9	3.8	3.6	4.0	4.5	3.4	3.8	5.0	3.0	4.6	4.0	3.5	4.5	4.7	4.5	4.5	4.2	6.0	5.6	6.6	NA	4.6	5.8	5.3	5.8	5.1	5.2	5.2	5.4	4.3	5.4	5.2	4.9	3.5	6.2	4
5	0.3	−0.3	0.2	−0.9	0.9	0.9	0.7	0.8	0.7	1.0	0.7	0.3	0.6	0.7	0.5	−0.3	0.2	0.7	0.2	−0.8	−1.1	−1.0	−3.2	−3.9	−4.3	−2.4	−4.3	−3.1	−2.6	−4.8	−0.2	0.4	3.1	NA	−1.4	1.1	0.3	1.3	−0.9	−1.1	2.8	0.2	−2.4	−0.2	1.8	−0.6	1.5	2.5	5
6	−0.1	−0.8	−0.1	−0.4	0.1	0.5	0.1	−0.6	−1.0	−0.3	−0.3	−0.4	−0.2	−0.4	−0.4	−1.4	−1.5	−1.1	−1.0	−2.0	−2.6	−0.4	−2.9	−2.9	−4.5	−3.2	−4.5	−1.0	−1.5	−1.0	−2.7	−1.8	0.0	NA	−3.1	−1.4	−1.6	−0.7	−2.6	−2.5	0.2	−2.5	−2.5	−0.3	−0.3	−1.2	0.0	1.3	6
7	1.4	0.6	0.2	−0.4	0.5	0.8	1.0	0.6	0.3	1.1	1.1	0.3	0.8	0.9	0.8	0.7	0.8	0.1	−0.1	0.1	0.1	−0.5	−0.9	−0.4	0.9	−0.3	1.8	2.0	2.6	2.6	0.3	0.1	1.2	NA	−0.5	−1.2	0.2	0.4	0.7	0.3	0.5	0.2	−0.9	0.4	0.2	0.3	0.9	1.5	7
8	0.6	−0.5	0.3	−1.3	1.3	0.6	0.7	0.1	0.8	0.4	0.8	0.1	0.8	0.4	−0.1	−1.1	0.3	−0.5	−0.1	−0.7	−1.4	−0.3	−2.4	−2.4	−3.1	−2.1	−3.5	−2.7	−2.4	−4.2	0.1	1.0	2.3	NA	−0.5	2.1	1.7	1.0	0.0	0.3	2.6	0.7	0.1	1.7	3.0	2.7	3.2	4.3	8
9	−0.9	−0.4	−1.0	−1.0	0.8	0.9	0.8	−1.1	−0.9	−0.7	−0.6	−1.4	−1.2	−1.9	−0.8	−1.6	−0.4	−0.9	−1.2	−2.0	−2.5	−1.1	−2.3	−2.2	−2.9	−2.7	−3.5	−2.7	−3.0	−0.3	−1.8	−0.9	−0.1	NA	−1.9	−0.2	−1.0	−0.6	−1.4	−1.7	1.6	−0.5	−0.8	0.5	1.7	2.6	2.8	3.1	9
10	0.1	1.1	0.0	0.8	0.7	2.1	1.3	−0.5	−0.6	0.0	−0.7	−0.6	−0.9	−1.2	0.2	−0.1	−0.4	−0.1	−1.0	−1.1	−0.4	0.3	0.5	1.3	1.7	−0.3	1.5	2.8	2.6	7.2	−1.1	−0.8	−0.7	NA	−0.9	−1.3	−0.4	0.3	0.3	0.5	0.2	3.0	2.3	1.7	0.9	0.9	0.8	−0.1	10
11	0.7	1.6	1.5	1.6	4.0	4.1	3.3	1.2	0.9	1.2	0.6	−0.5	0.7	0.2	0.9	0.6	−0.8	−0.9	0.1	0.7	1.6	2.4	1.0	3.0	2.6	0.6	0.1	1.2	0.9	6.6	0.0	0.4	2.0	NA	0.0	2.4	0.6	1.7	1.8	2.6	6.6	4.0	7.2	5.5	5.7	3.5	4.3	5.1	11
12	4.1	3.8	3.3	3.6	5.0	4.0	5.2	3.5	3.1	2.3	2.9	3.0	4.0	3.3	3.5	3.1	3.0	2.4	1.1	2.2	2.6	4.7	3.8	6.0	7.1	2.6	5.0	4.3	3.5	7.5	2.8	3.9	4.9	NA	1.9	2.3	1.0	1.5	2.9	3.9	10.5	5.8	9.2	8.0	10.8	9.9	9.6	11.6	12
13	4.1	4.8	2.9	3.7	4.8	6.0	7.0	4.4	4.5	3.1	3.9	3.0	4.6	2.6	4.7	3.6	3.1	3.0	1.2	3.5	5.9	6.6	8.6	8.7	9.5	5.4	8.4	7.3	6.3	8.7	3.5	3.6	3.3	NA	3.7	4.1	3.3	3.7	6.6	6.0	7.5	8.7	11.2	9.3	7.3	6.0	4.5	4.8	13
14	3.1	4.6	2.7	3.3	3.4	5.3	5.7	3.7	3.8	3.3	3.8	0.9	2.4	0.9	3.7	3.5	4.0	3.4	1.1	5.0	7.0	5.5	9.3	10.0	9.3	8.3	9.1	8.0	6.8	8.4	4.0	3.9	2.7	NA	5.0	2.8	4.4	4.7	6.6	6.3	5.2	9.2	10.4	8.9	5.3	5.1	3.4	3.9	14
15	4.3	7.4	4.4	6.6	3.4	5.6	4.8	4.6	3.1	4.0	3.8	2.4	3.5	2.9	5.8	6.8	5.3	6.6	1.9	6.4	7.6	6.1	10.7	11.2	10.2	10.5	10.4	9.7	8.6	8.9	4.7	4.7	2.5	NA	5.8	2.5	4.9	5.4	7.3	6.6	4.9	9.7	10.9	8.0	6.4	6.9	4.2	4.7	15
16	5.7	10.2	7.3	9.9	5.8	7.5	5.7	6.2	4.5	5.7	5.2	4.1	5.7	5.3	7.6	10.0	6.6	8.4	4.2	7.7	8.5	7.3	10.4	10.2	10.0	10.6	10.6	10.0	9.8	8.7	5.8	5.7	3.4	NA	7.4	3.1	5.9	6.2	8.3	6.9	4.1	6.0	7.5	5.3	5.3	5.8	3.8	4.6	16
17	5.6	8.5	5.9	7.6	6.2	6.9	5.6	5.0	3.8	5.6	4.8	5.1	5.1	5.0	7.2	9.3	6.9	9.6	8.4	7.3	6.6	6.1	7.4	6.8	7.1	7.8	7.3	6.7	5.6	4.3	5.5	4.7	3.8	NA	5.6	3.0	6.1	5.1	6.5	4.8	3.5	3.9	2.9	3.6	3.8	4.1	3.3	4.0	17
18	1.6	2.3	1.1	1.3	1.7	2.1	1.3	0.8	0.4	2.3	0.9	3.0	1.4	2.5	2.7	4.5	5.1	6.9	4.9	3.1	2.1	1.0	1.3	0.7	1.7	1.9	2.4	3.1	3.0	1.7	4.1	3.7	4.4	NA	2.6	4.3	5.0	2.2	3.4	4.2	3.2	2.8	1.1	1.8	1.9	0.7	1.6	4.0	18
19	0.2	−0.8	0.0	−0.4	−0.4	−0.8	−0.4	−0.4	0.3	−1.6	0.0	0.4	0.6	0.3	−0.5	−1.0	−0.7	−1.1	−2.0	−1.7	−1.6	0.2	−1.2	−1.3	−2.1	−0.7	−2.0	−0.8	−0.8	−2.8	−0.2	0.2	1.2	NA	−1.6	1.0	−0.3	−0.3	−1.3	−1.0	0.0	0.1	−1.1	−0.8	−1.7	−1.8	−0.2	1.4	19
20	2.6	1.4	0.9	0.6	1.1	0.3	1.1	0.4	1.1	−0.3	1.2	2.7	2.2	1.8	1.7	1.8	1.6	2.7	−1.9	−2.0	−0.7	1.9	0.8	0.7	1.3	−0.3	1.8	1.4	0.9	−1.6	−0.4	0.2	−3.2	NA	−0.3	0.1	2.5	2.0	1.7	−0.2	0.0	−0.6	1.3	0.5	0.4	1.7	1.6	2.3	20
21	4.3	4.3	2.4	3.9	3.2	2.6	3.4	1.8	1.1	1.7	2.1	3.9	2.9	2.2	3.4	3.6	4.7	4.5	0.7	2.8	4.4	7.0	5.9	5.9	6.9	4.1	7.0	6.1	5.2	3.8	3.5	3.1	1.4	NA	4.0	2.6	6.2	5.6	6.2	4.7	4.3	2.7	5.0	2.7	4.1	4.7	4.2	5.5	21
22	5.9	6.5	4.3	5.9	3.6	4.5	4.7	3.8	3.0	3.7	4.1	4.7	4.5	3.3	5.4	5.3	6.7	7.3	4.6	5.2	6.2	6.5	8.2	8.0	7.5	8.3	8.5	6.9	5.6	5.1	4.7	5.0	2.2	NA	6.1	3.2	7.5	6.6	7.0	5.2	4.0	3.7	6.0	4.3	4.5	5.4	4.5	4.4	22
23	6.1	7.5	5.4	7.0	4.5	5.7	5.8	5.2	4.1	5.2	5.0	4.6	5.0	4.5	6.4	6.9	6.0	7.2	5.3	6.2	6.4	6.4	7.7	8.0	6.8	7.7	6.8	6.0	5.3	4.8	4.4	4.9	2.6	NA	5.8	3.1	5.7	5.9	6.4	5.1	4.2	4.1	6.3	4.5	4.8	5.8	4.5	4.3	23
24	5.7	7.1	5.3	7.1	4.8	6.5	6.4	5.0	4.7	5.7	5.0	4.6	4.6	4.5	6.2	6.2	5.4	6.0	4.2	6.0	5.8	6.3	7.0	7.3	6.2	6.9	5.4	4.5	4.1	3.2	4.1	4.2	3.4	NA	5.5	3.6	4.9	5.1	6.1	5.2	4.7	5.6	6.6	4.9	5.3	5.8	4.8	4.6	24
25	5.8	6.8	5.7	6.6	5.6	6.9	7.2	5.3	5.2	5.5	5.8	4.8	5.6	4.1	6.0	5.9	4.8	4.0	4.1	5.2	5.4	6.8	6.1	6.1	5.1	5.6	4.3	3.8	3.2	3.1	4.0	3.6	3.3	NA	4.6	3.7	5.6	5.3	5.9	5.0	4.2	5.5	6.2	5.5	5.7	5.6	4.2	3.5	25
26	6.6	7.0	5.0	6.2	4.9	6.4	7.6	4.9	5.0	5.3	5.8	5.1	5.8	3.8	6.3	5.5	4.6	5.0	3.5	4.9	5.4	8.4	6.2	6.7	6.5	6.0	5.0	4.6	4.7	6.2	3.8	4.0	2.6	NA	4.9	2.8	4.8	5.2	6.0	5.3	4.4	6.5	7.8	6.0	6.0	6.9	5.3	5.0	26
27	5.8	6.4	4.6	5.7	5.0	6.0	7.1	4.3	4.3	5.1	4.9	4.4	5.0	3.0	5.5	4.9	4.5	4.0	3.1	4.6	5.8	8.1	6.0	6.8	6.6	5.7	5.5	5.3	5.1	6.4	4.1	4.2	2.8	NA	5.0	3.2	4.8	4.9	6.2	5.5	6.1	6.5	8.5	6.1	6.5	7.1	5.5	5.0	27
28	7.2	7.7	5.7	7.2	4.7	5.8	7.1	5.0	5.0	5.2	6.5	6.0	5.8	4.6	6.8	6.8	6.1	5.6	3.3	5.6	6.6	8.6	7.3	7.9	8.4	7.1	8.1	7.7	7.4	7.3	5.7	5.6	3.8	NA	6.5	4.1	5.3	5.8	7.2	6.8	5.7	8.3	9.6	7.4	6.9	7.9	6.2	5.9	28
29	6.9	7.5	6.5	7.6	6.0	7.0	7.0	6.4	6.0	7.0	6.3	6.6	6.1	6.4	7.1	7.1	6.2	7.0	5.6	7.0	7.1	7.3	7.6	8.4	6.7	7.3	6.4	4.8	4.4	4.2	5.2	5.3	5.0	NA	6.5	5.2	6.8	6.5	7.1	6.3	8.0	8.2	9.5	8.6	8.8	9.5	8.5	8.5	29
30	5.0	4.8	5.1	4.7	6.2	7.3	6.6	5.5	6.0	6.2	5.8	4.4	5.0	4.5	5.6	5.7	4.5	3.7	5.8	4.8	5.9	5.0	4.4	6.6	4.8	4.5	3.3	3.1	2.7	5.1	3.7	4.4	5.3	NA	3.6	7.2	8.0	7.3	7.0	6.8	8.7	6.7	8.7	7.5	9.7	10.9	10.7	10.9	30
31	4.3	4.6	3.5	3.5	4.8	5.2	4.7	4.5	4.1	5.3	4.3	5.4	4.4	5.4	5.3	6.6	5.1	5.1	5.0	5.3	5.5	4.4	5.1	7.3	6.8	4.9	5.0	2.9	3.1	4.1	4.7	5.0	4.5	NA	5.2	5.3	5.8	5.2	6.2	5.5	6.7	7.0	9.7	8.3	8.1	9.4	8.6	10.2	31
Mitt.	3.8	4.5	3.2	4.0	3.5	4.3	4.2	3.2	2.8	3.2	3.3	2.9	3.4	2.8	4.0	4.2	3.6	4.0	2.4	3.5	4.1	4.3	4.7	5.1	4.8	4.5	4.6	4.4	4.0	4.4	3.2	3.3	2.9	NA	3.4	2.7	3.7	3.8	4.5	4.0	4.5	4.9	5.8	4.7	4.9	5.0	4.2	4.9	Mitt.

−10 −5 −2.5 −1 1 2.5 5 10

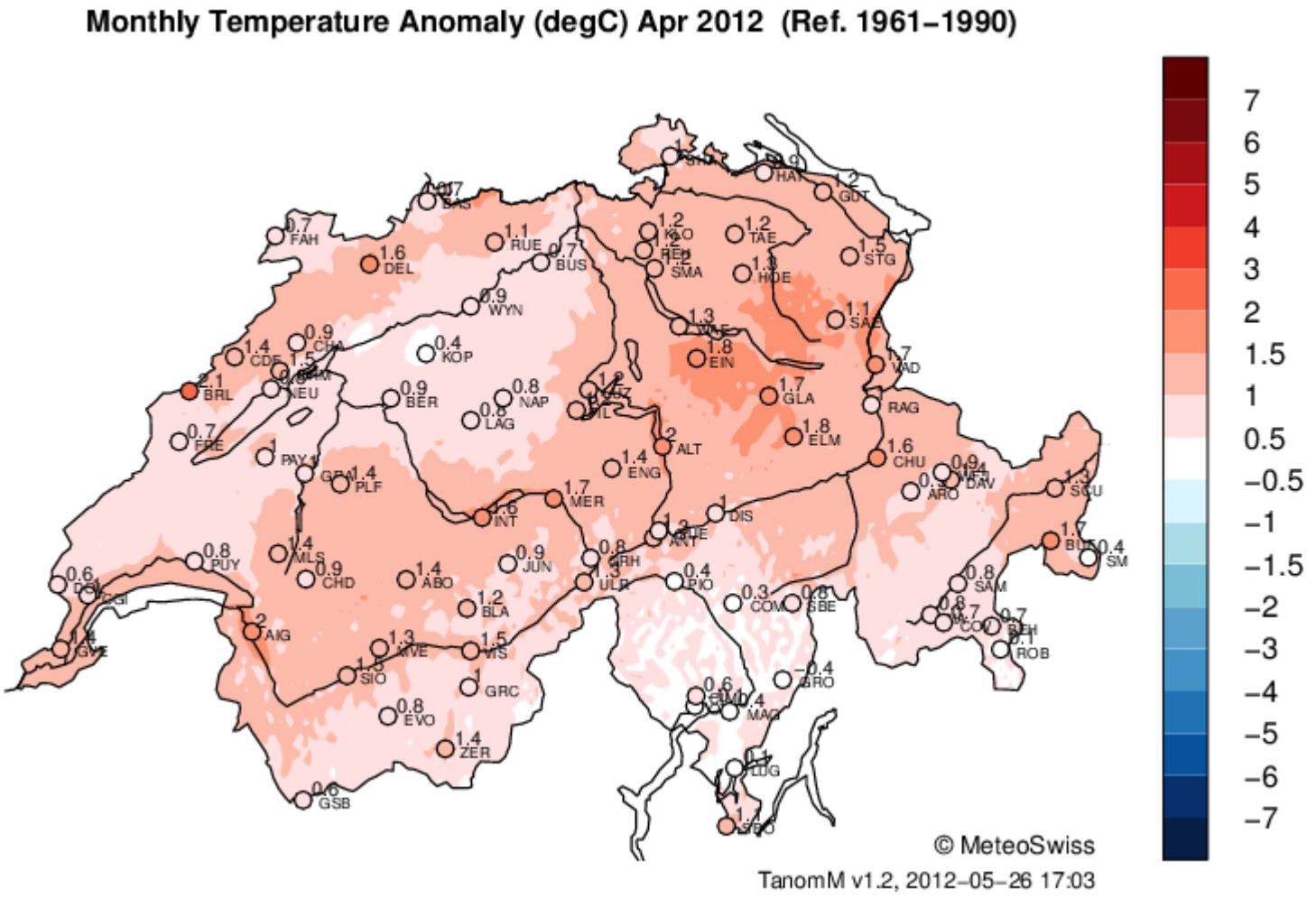
Temperatura: marzo 2012 e gli altri



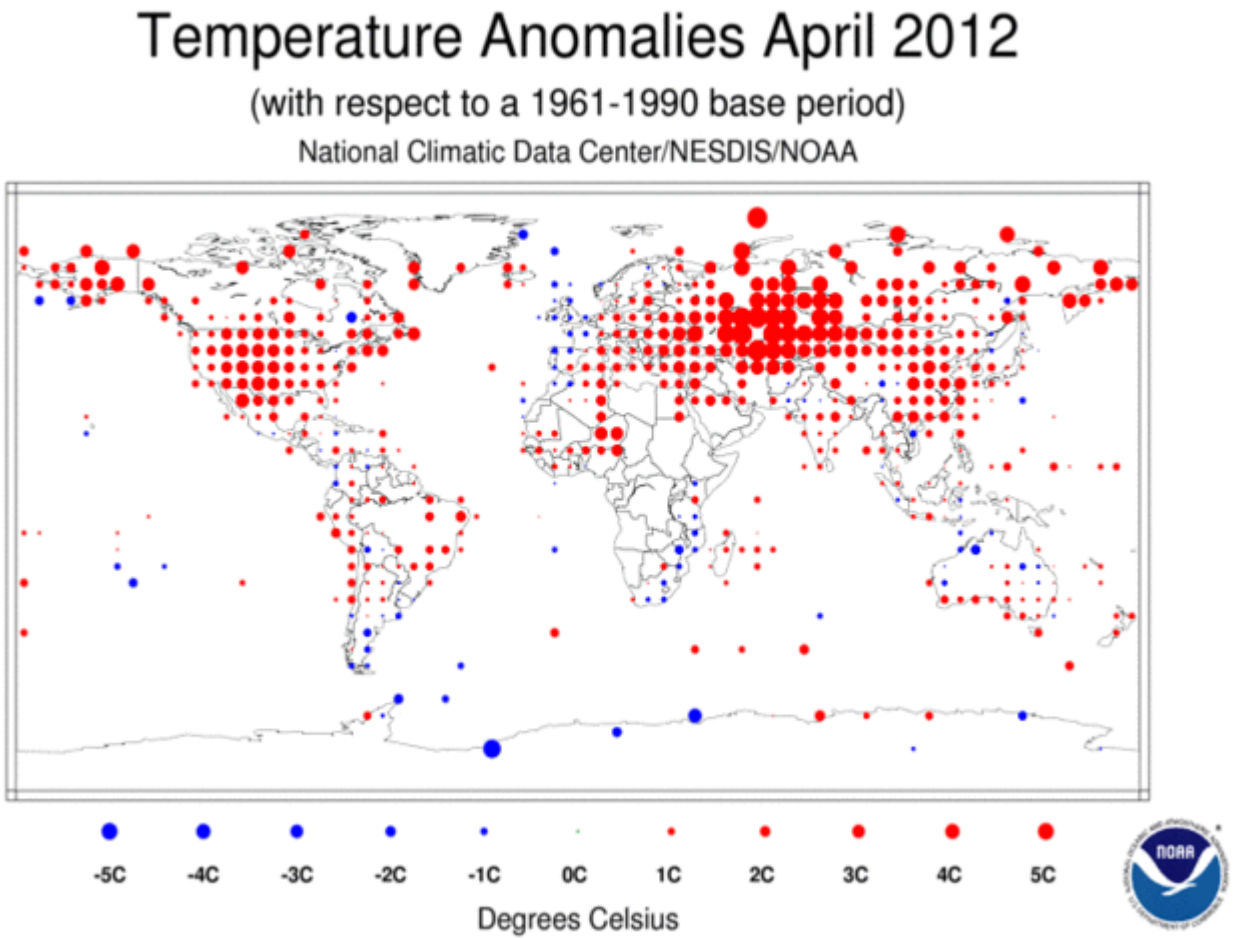
Temperatura: anomalie globali marzo 2012



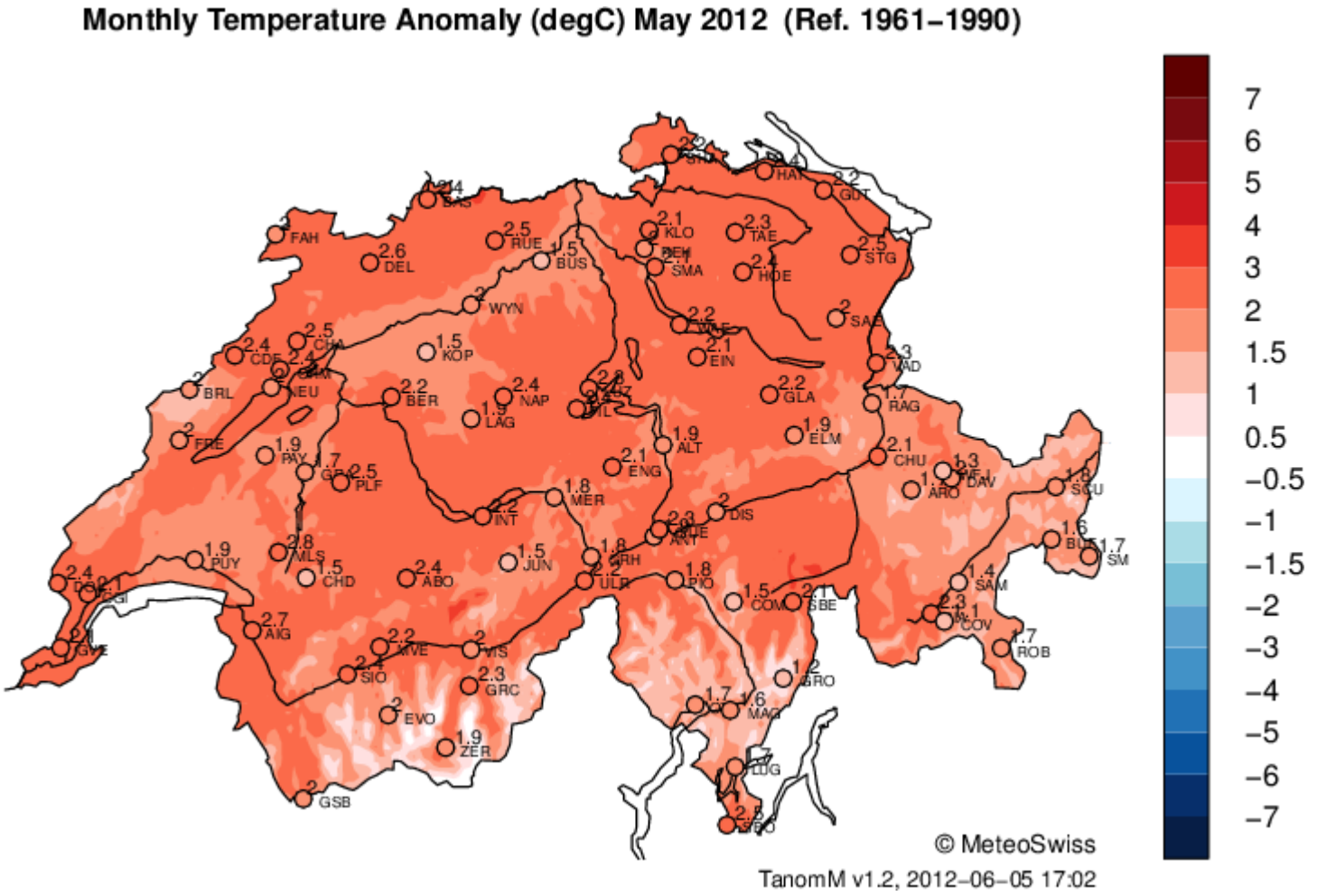
Temperatura: aprile 2012



Temperatura: anomalie globali aprile 2012

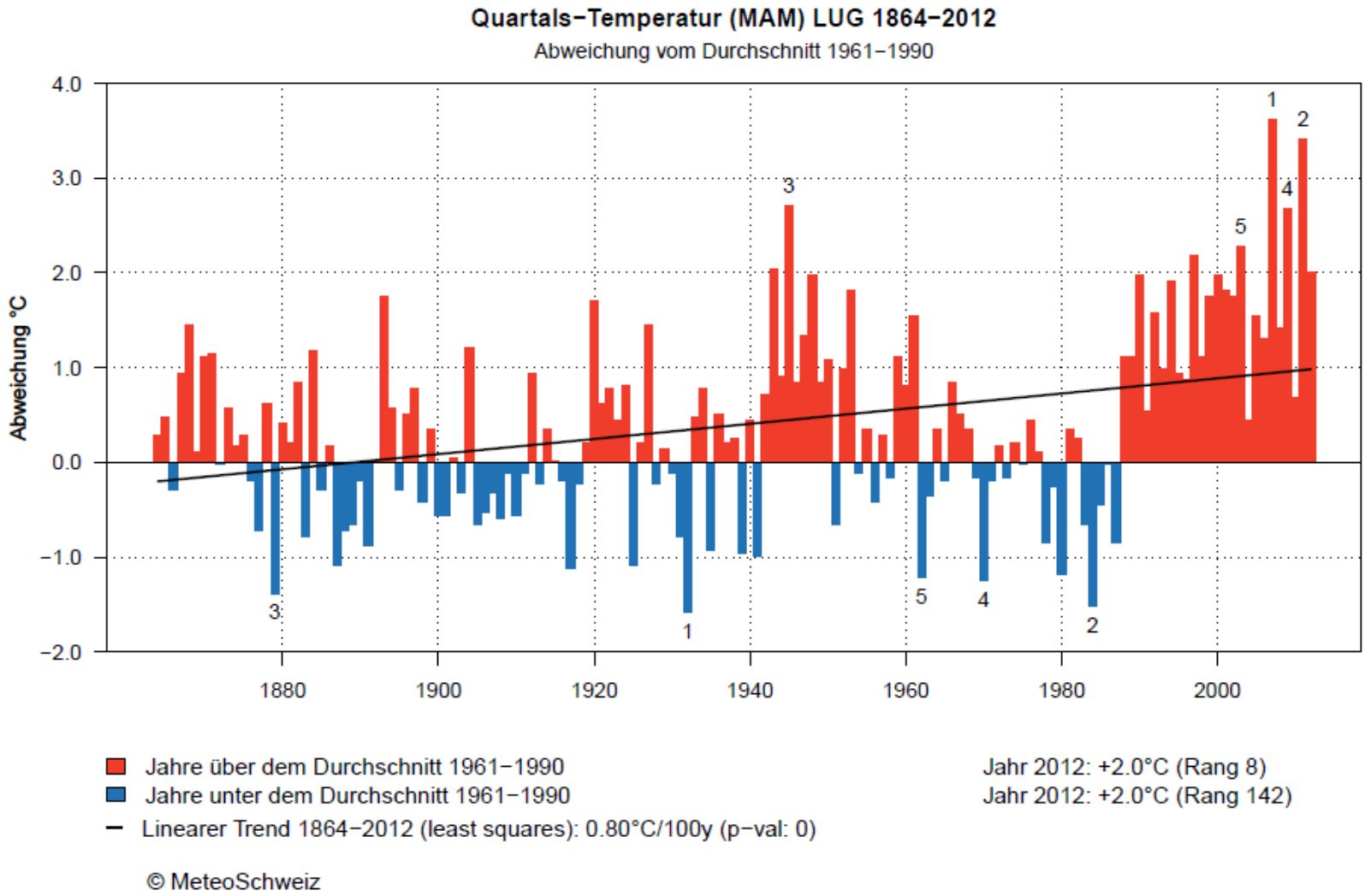


Temperatura: maggio 2011

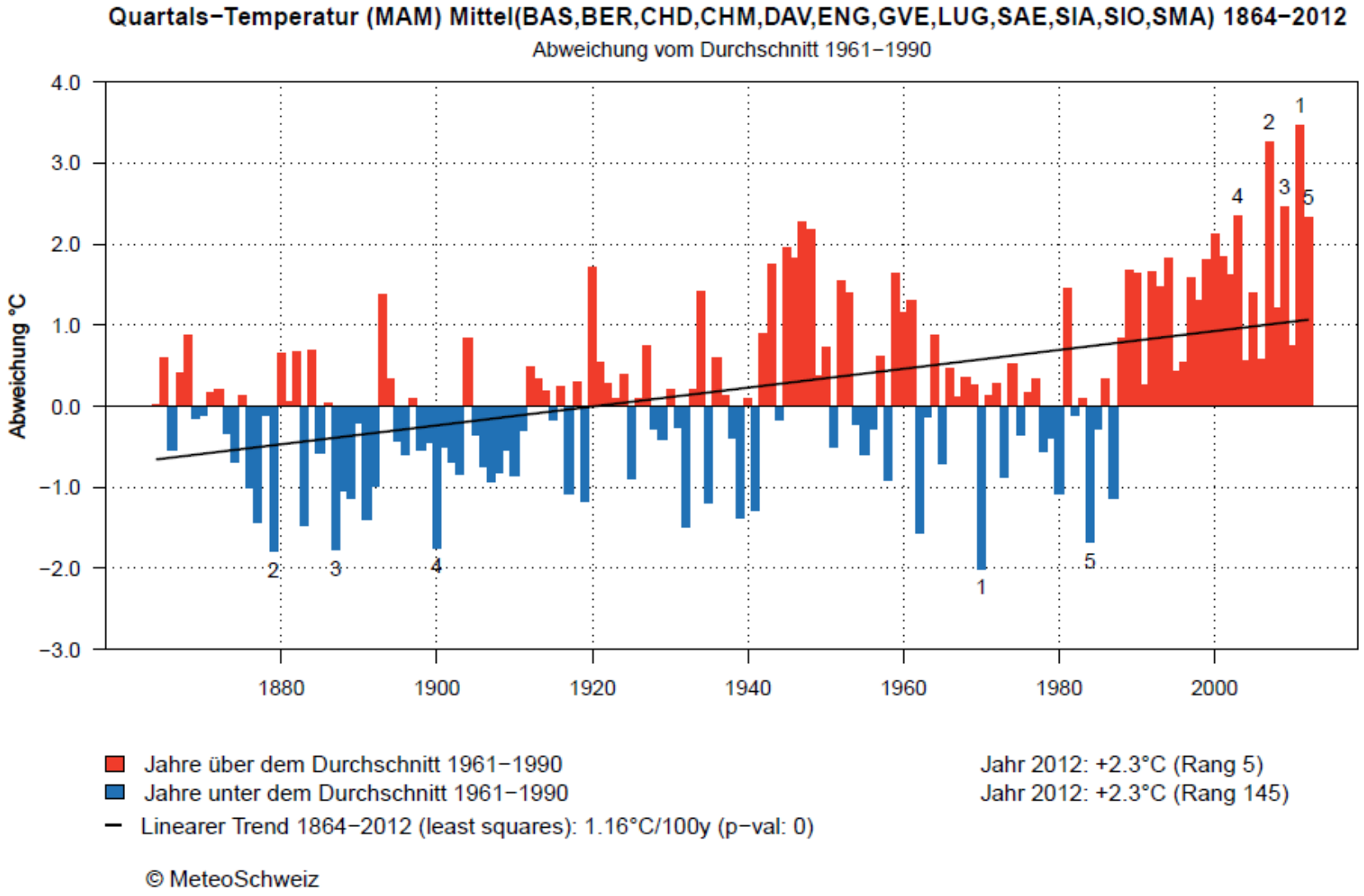


Temperatura: anomalie globali maggio 2012

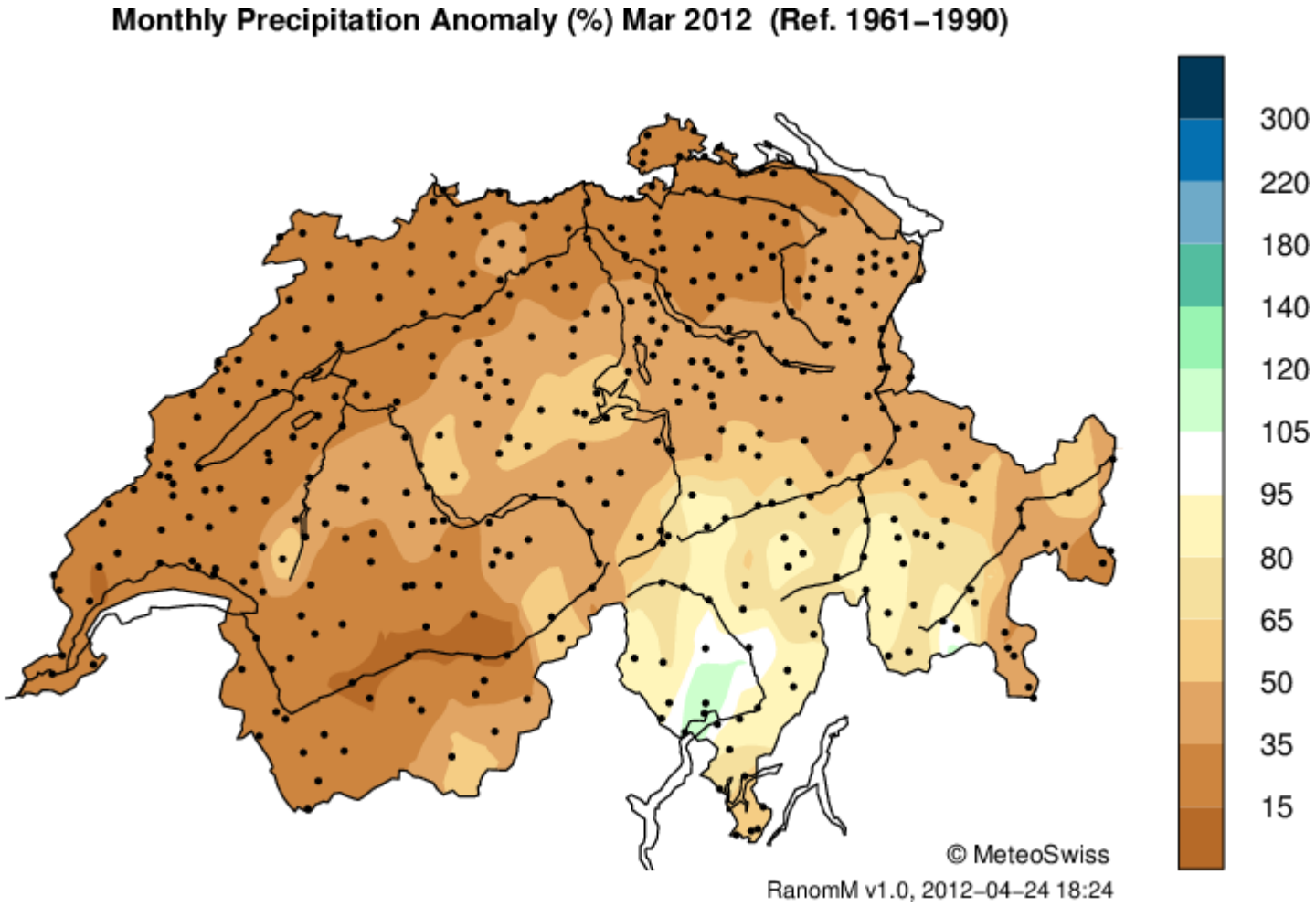
La primavera TI 2012 rispetto alle altre



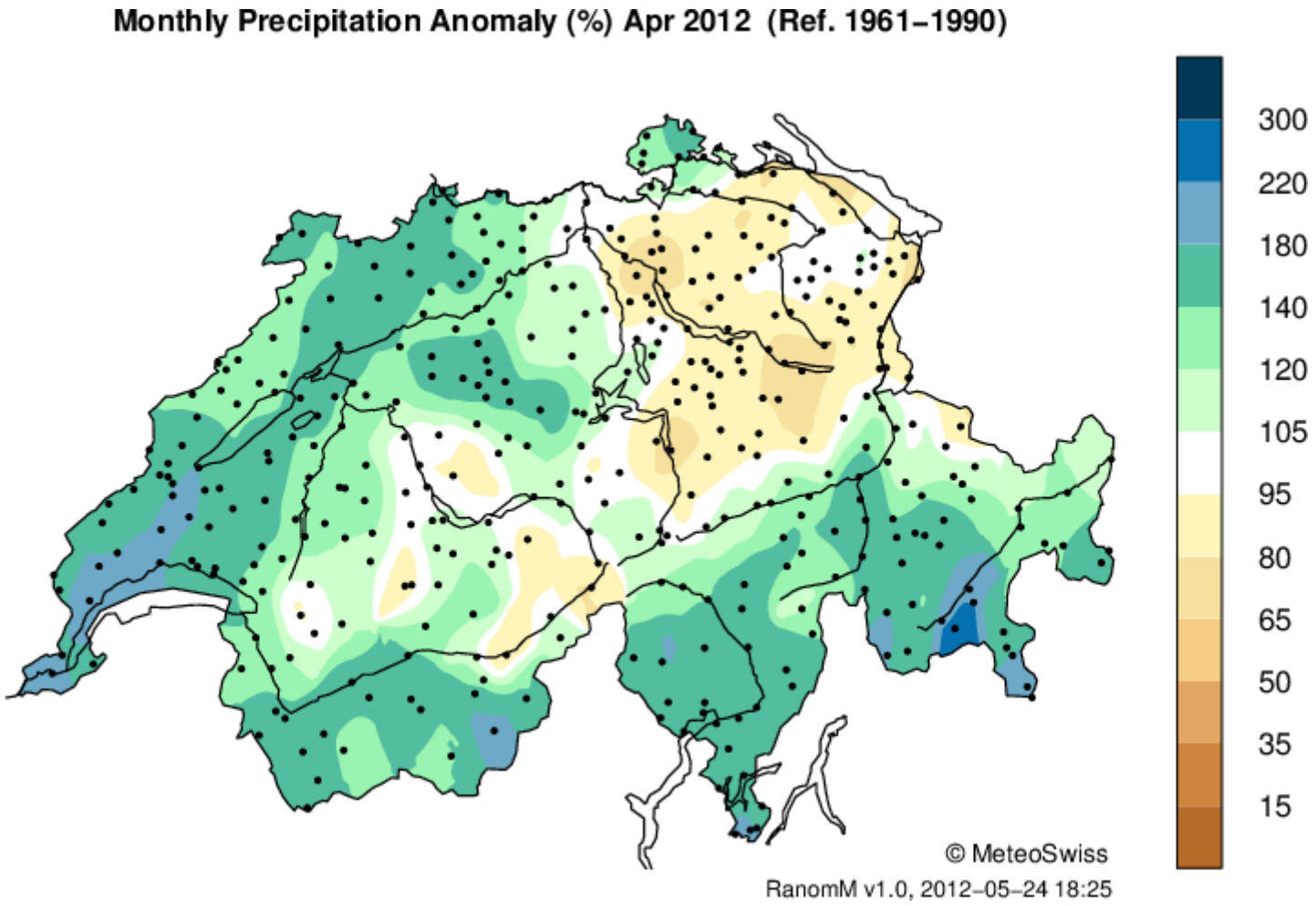
La primavera CH 2011 rispetto alle altre



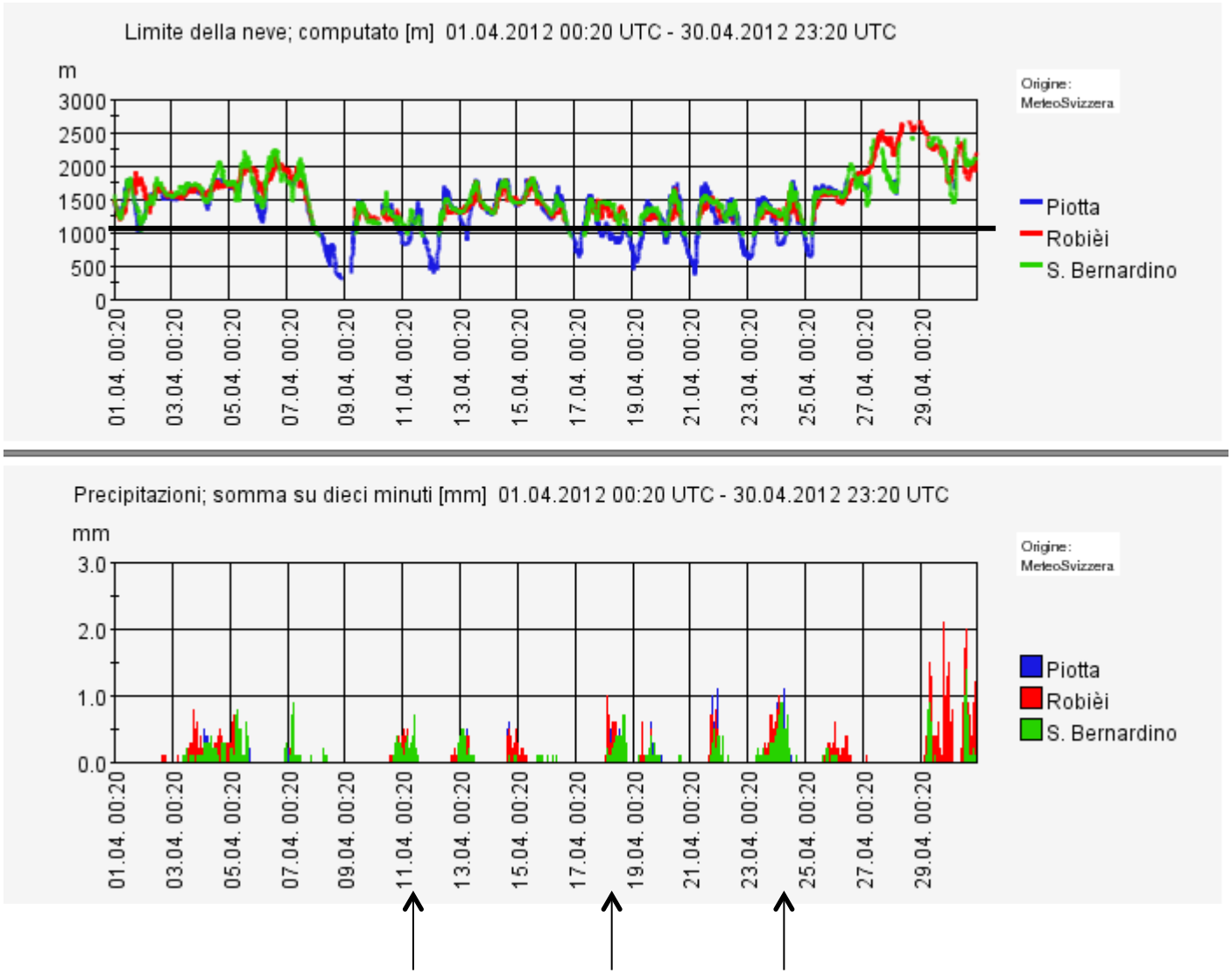
Precipitazioni: marzo 2012



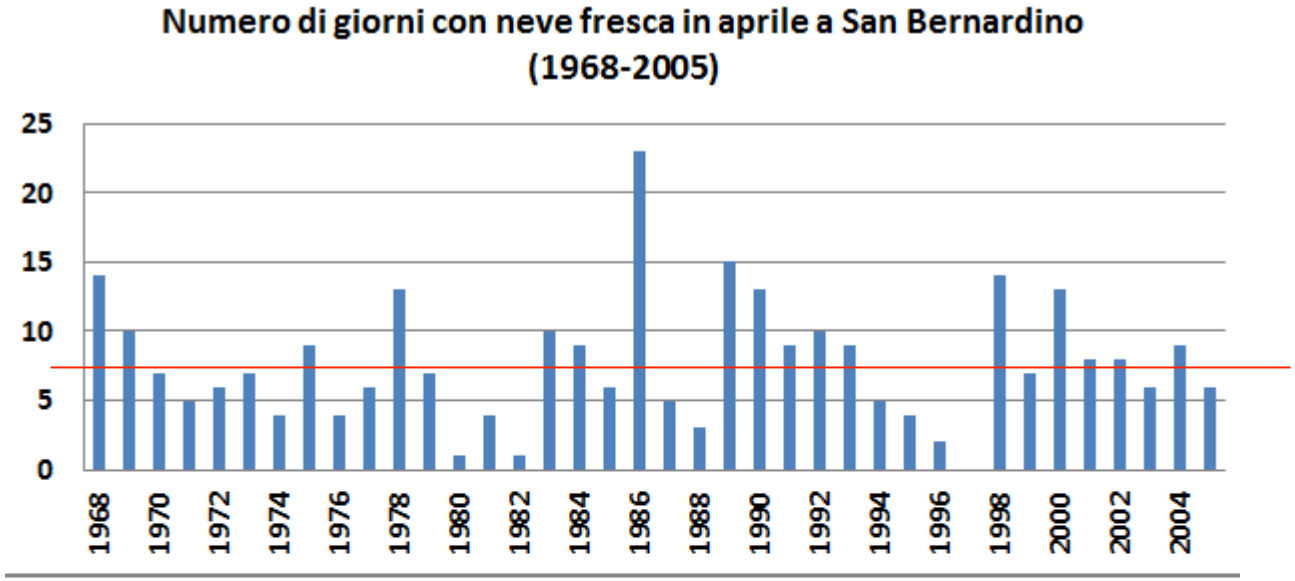
Precipitazioni: aprile 2012



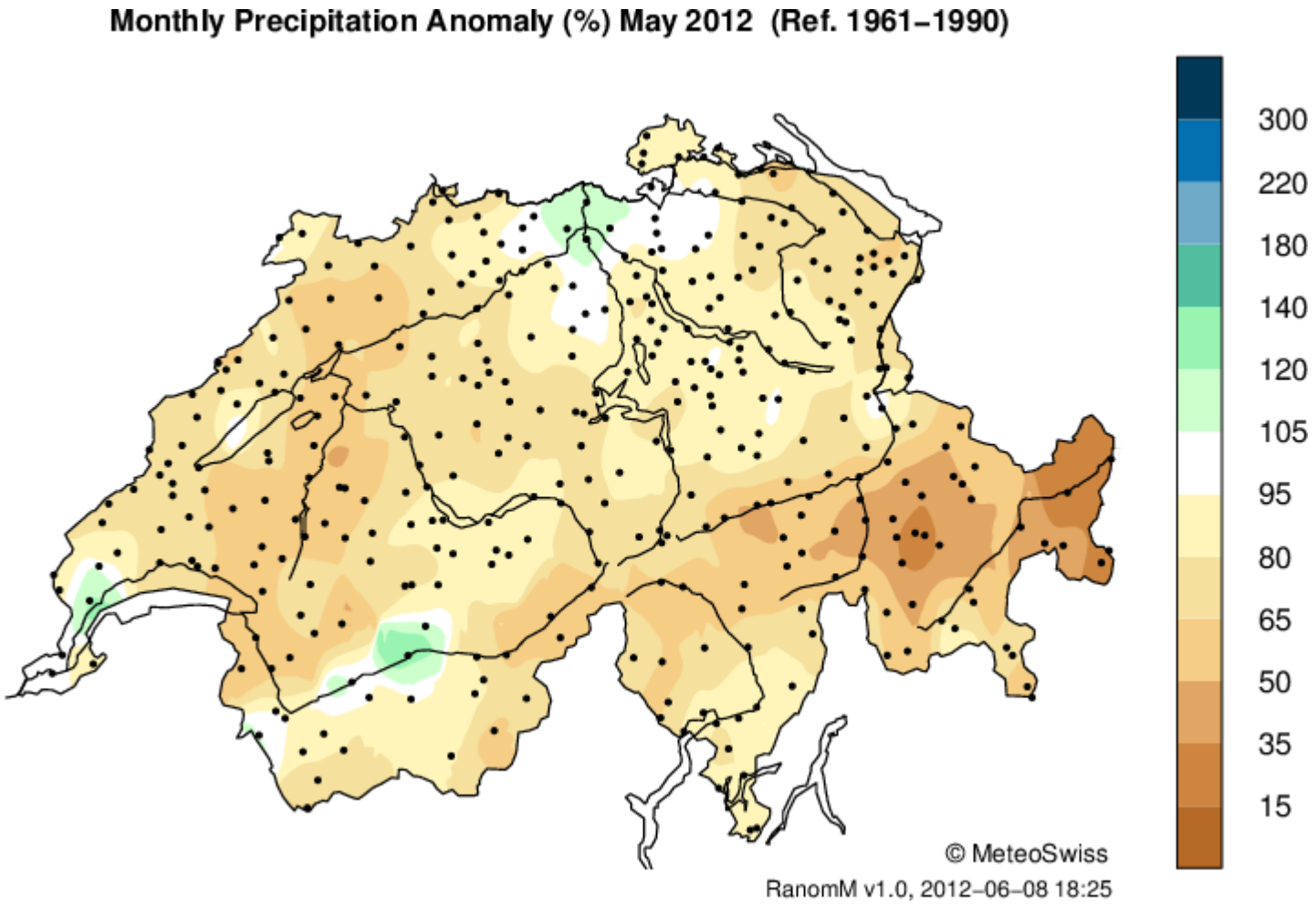
Neve ad aprile?



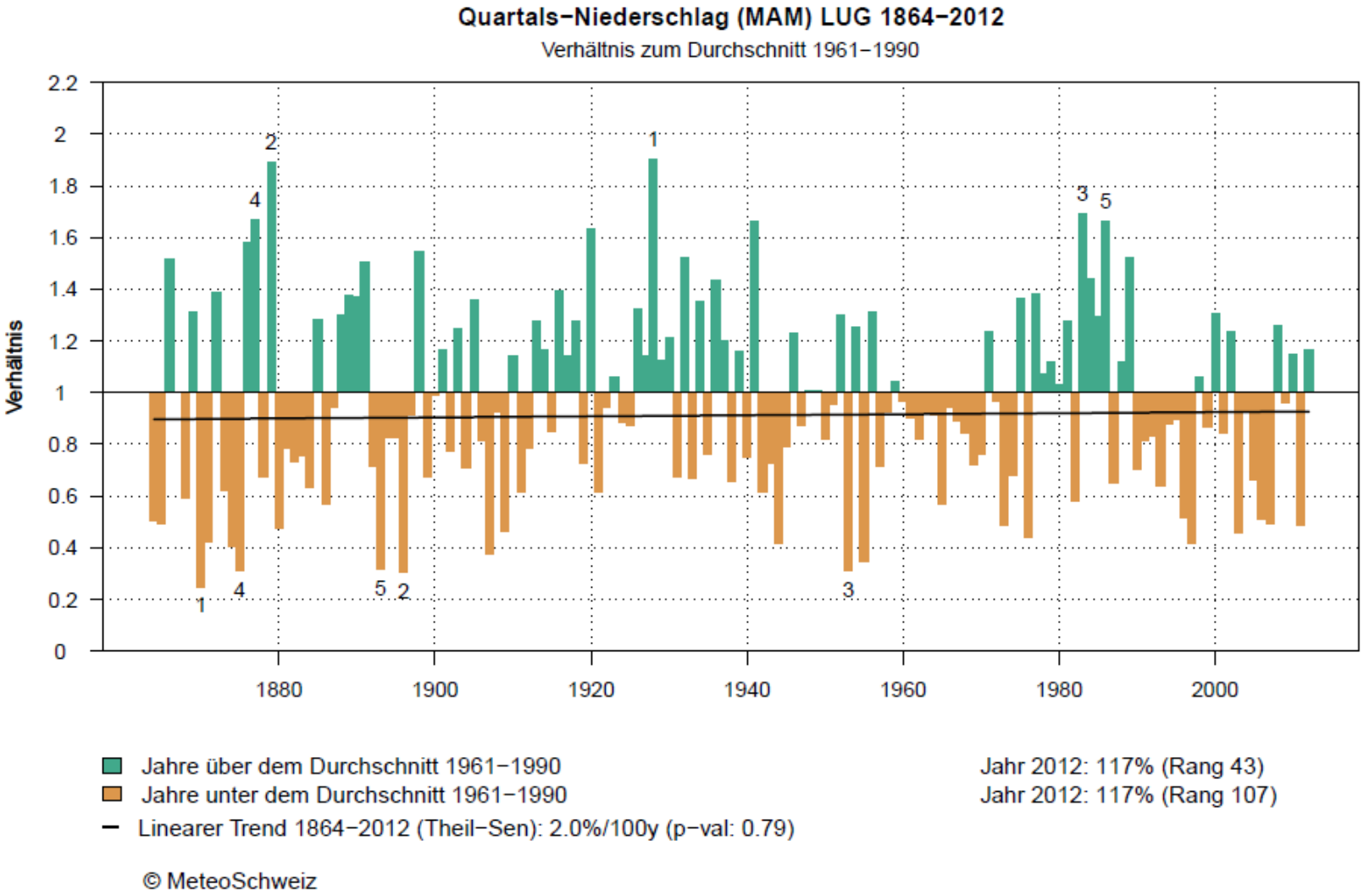
Neve ad aprile?



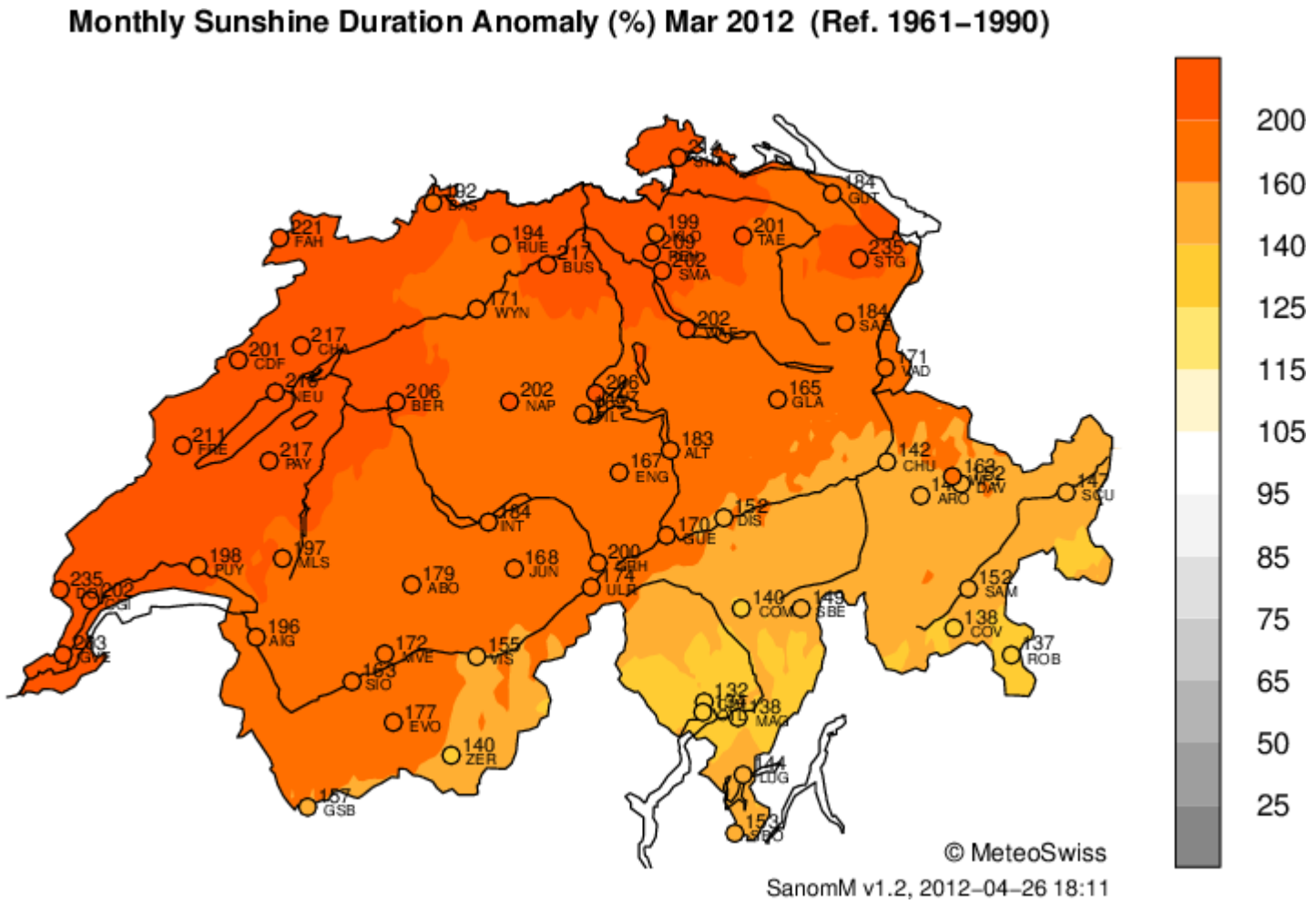
Precipitazioni maggio 2012



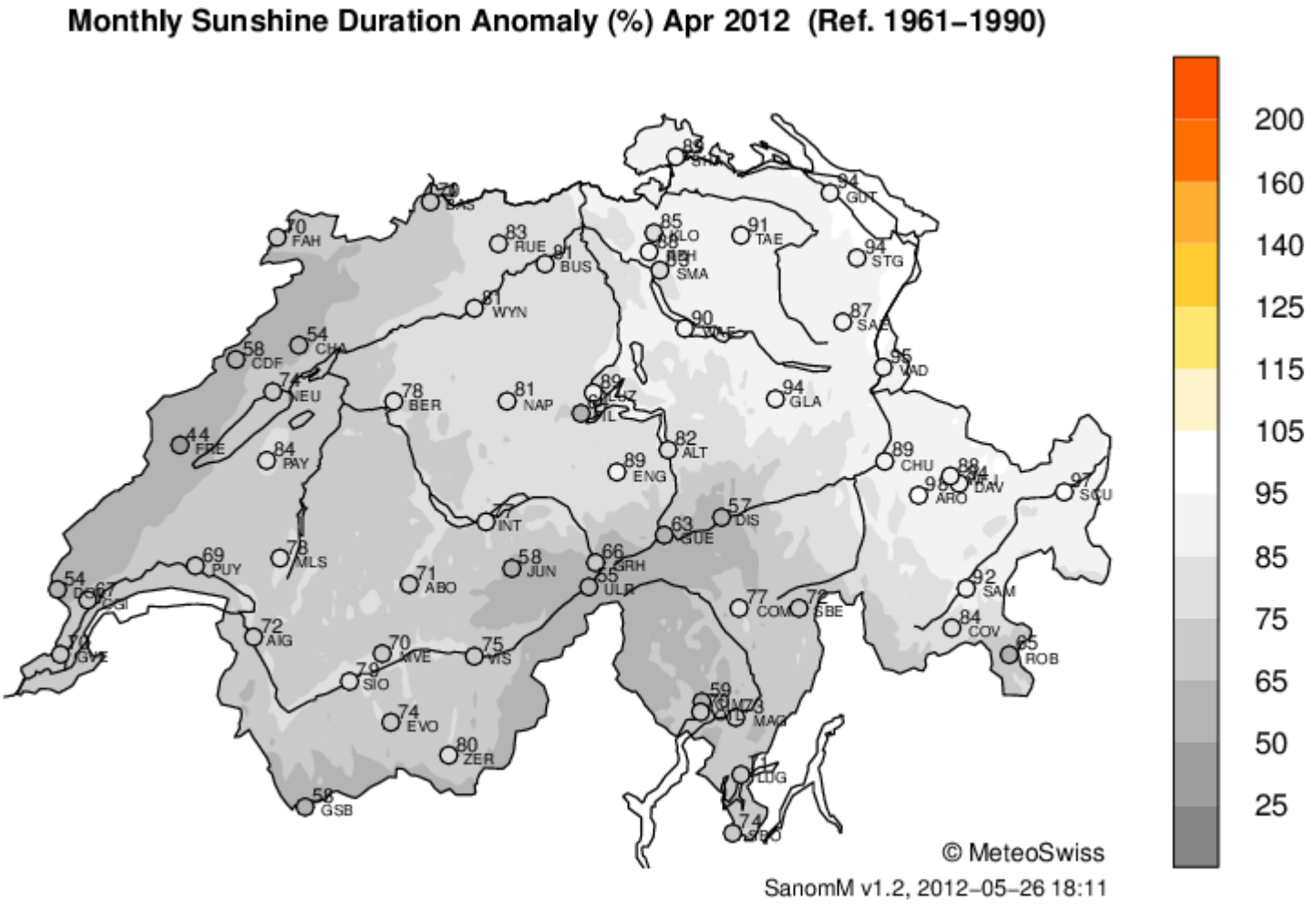
La primavera 2012 rispetto alle altre



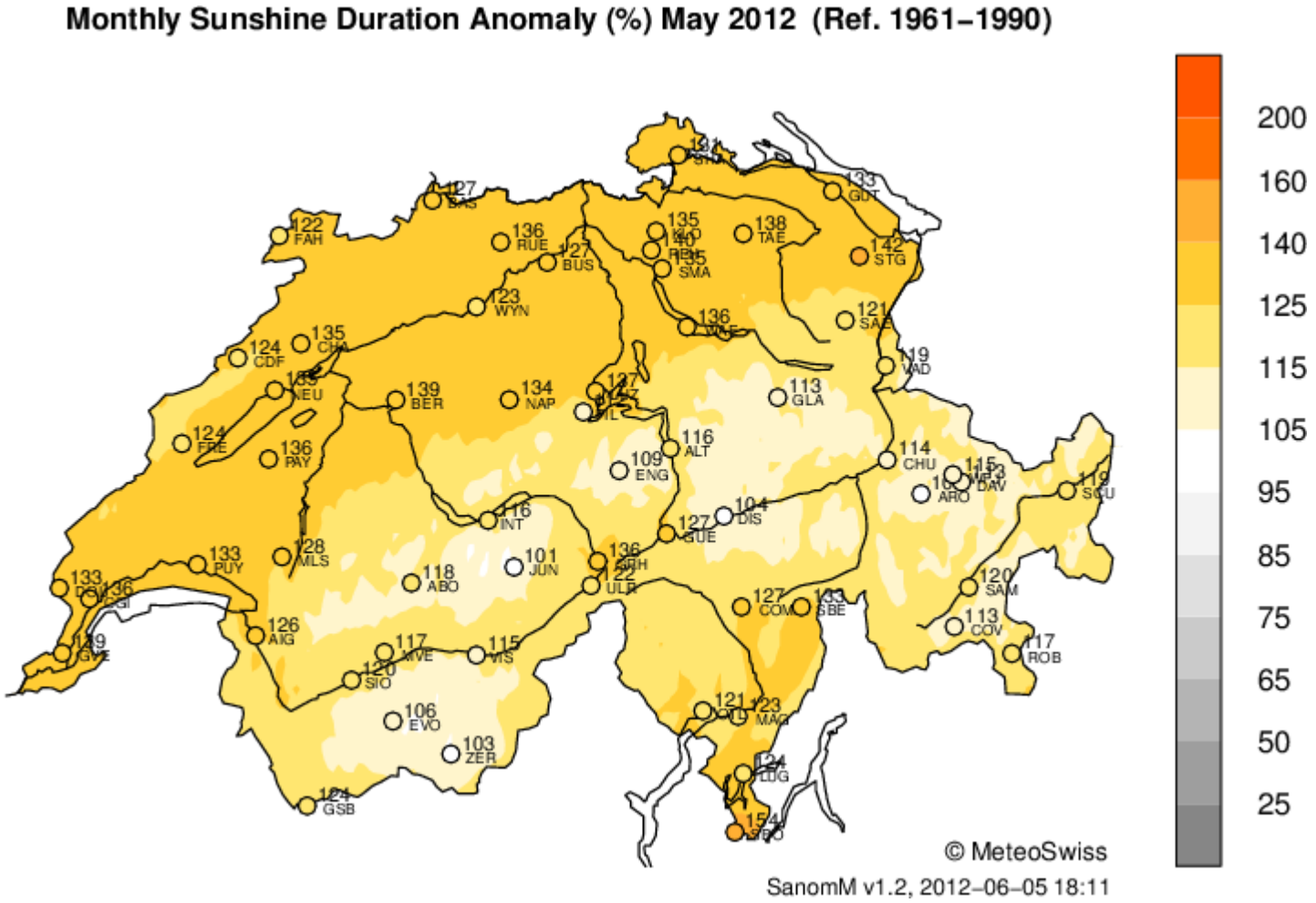
Soleggiamento: anomalia marzo 2012



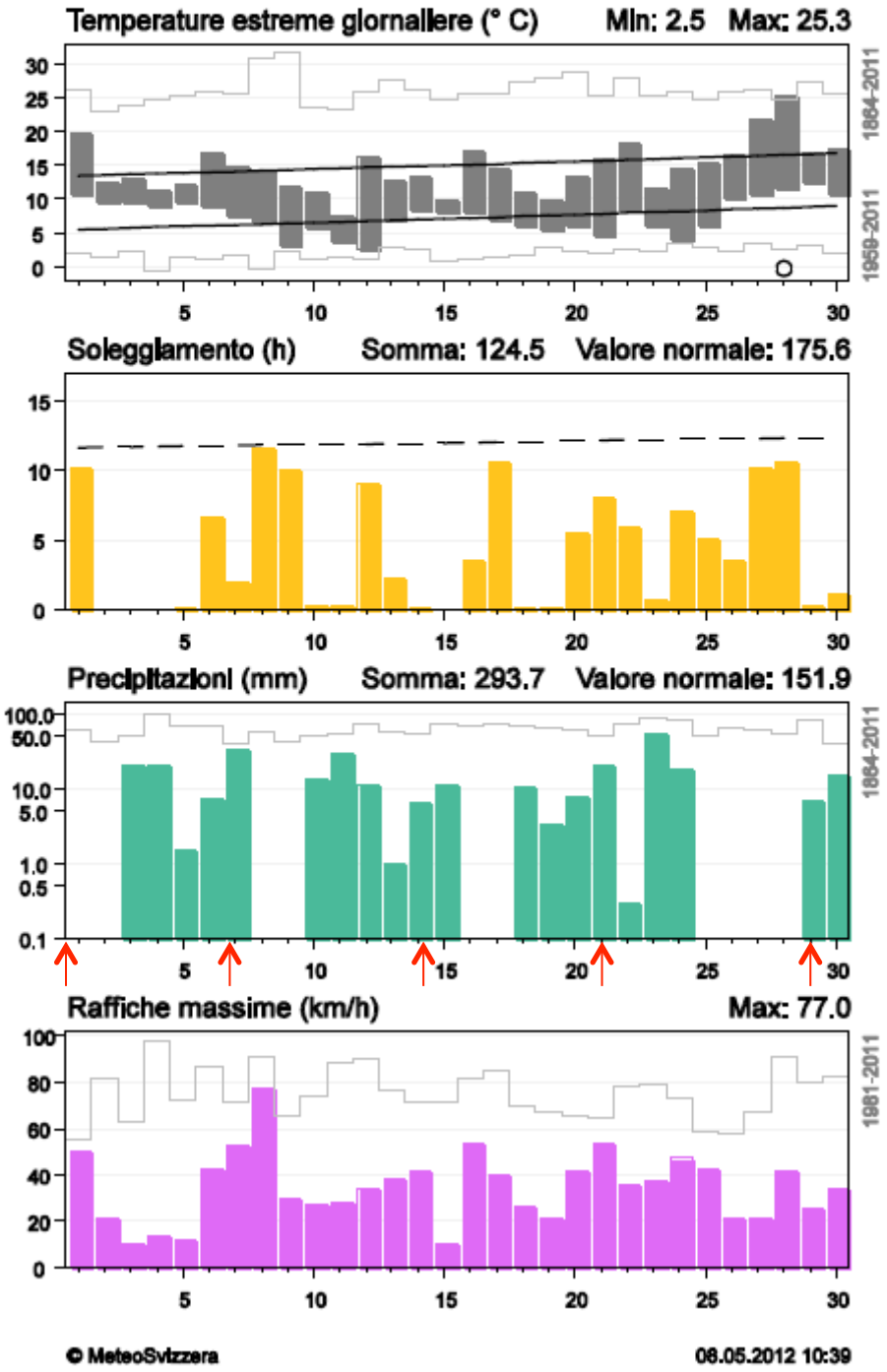
Soleggiamento: anomalia aprile 2012



Soleggiamento: anomalia maggio 2012

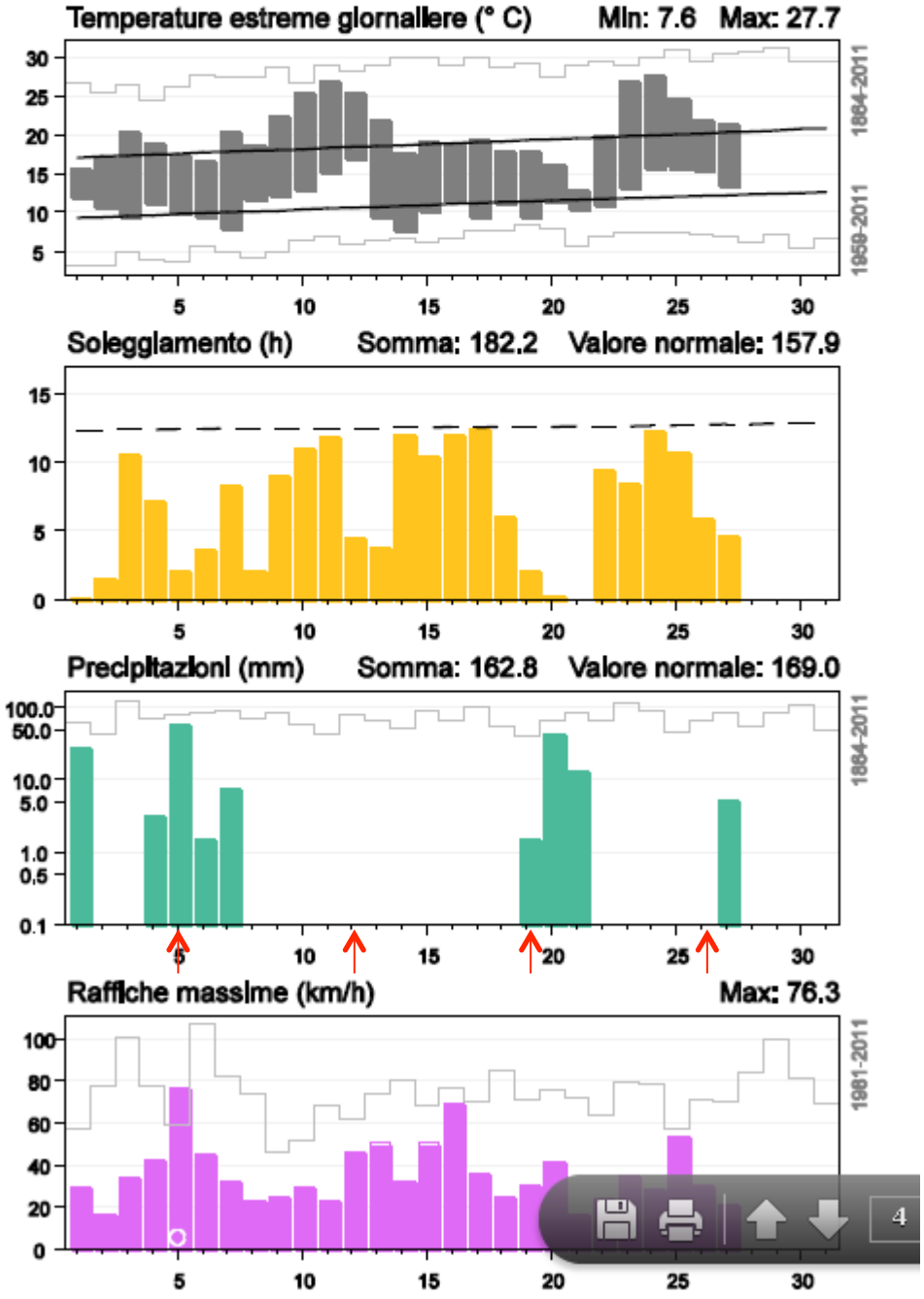


Lugano aprile

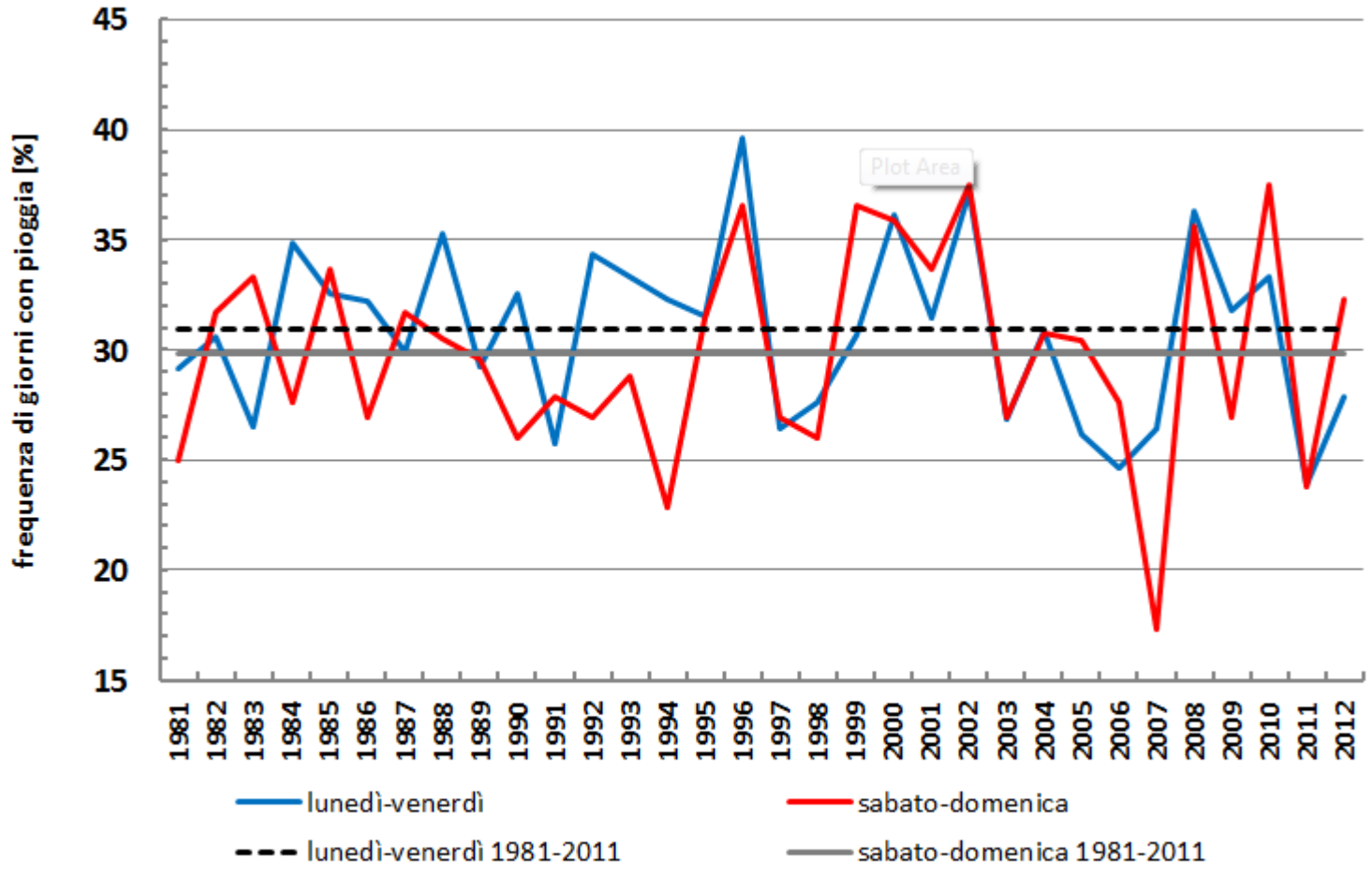


Lugano maggio

Aprile-maggio 2012:
6/8 weekend con pioggia
29/61 giorni di pioggia complessivi

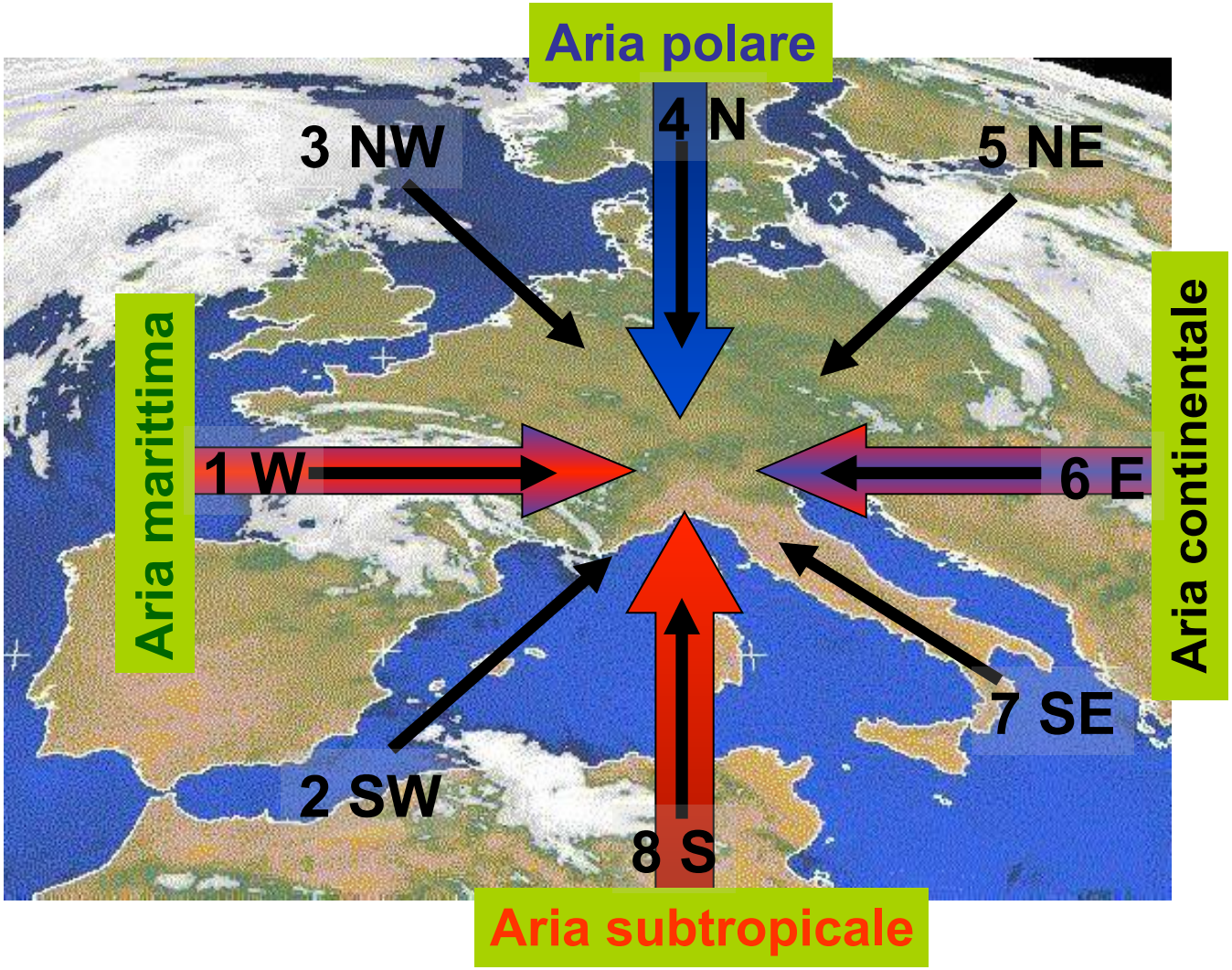


Priove sempre il weekend?

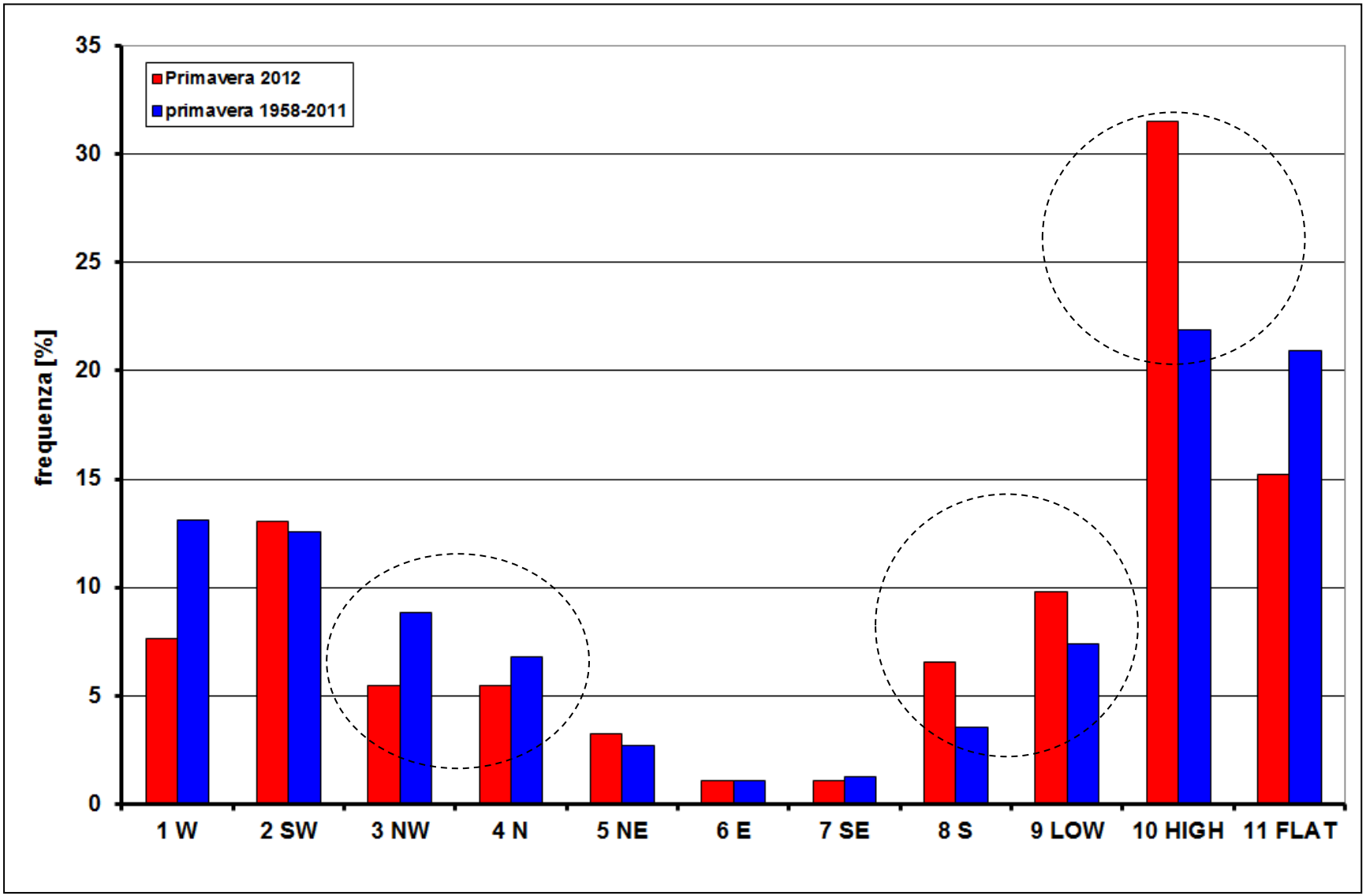


Giorno di pioggia: almeno 0.2 l/m2 di pioggia in 24h

Masse d’aria diverse, tempo diverso, situazioni diverse

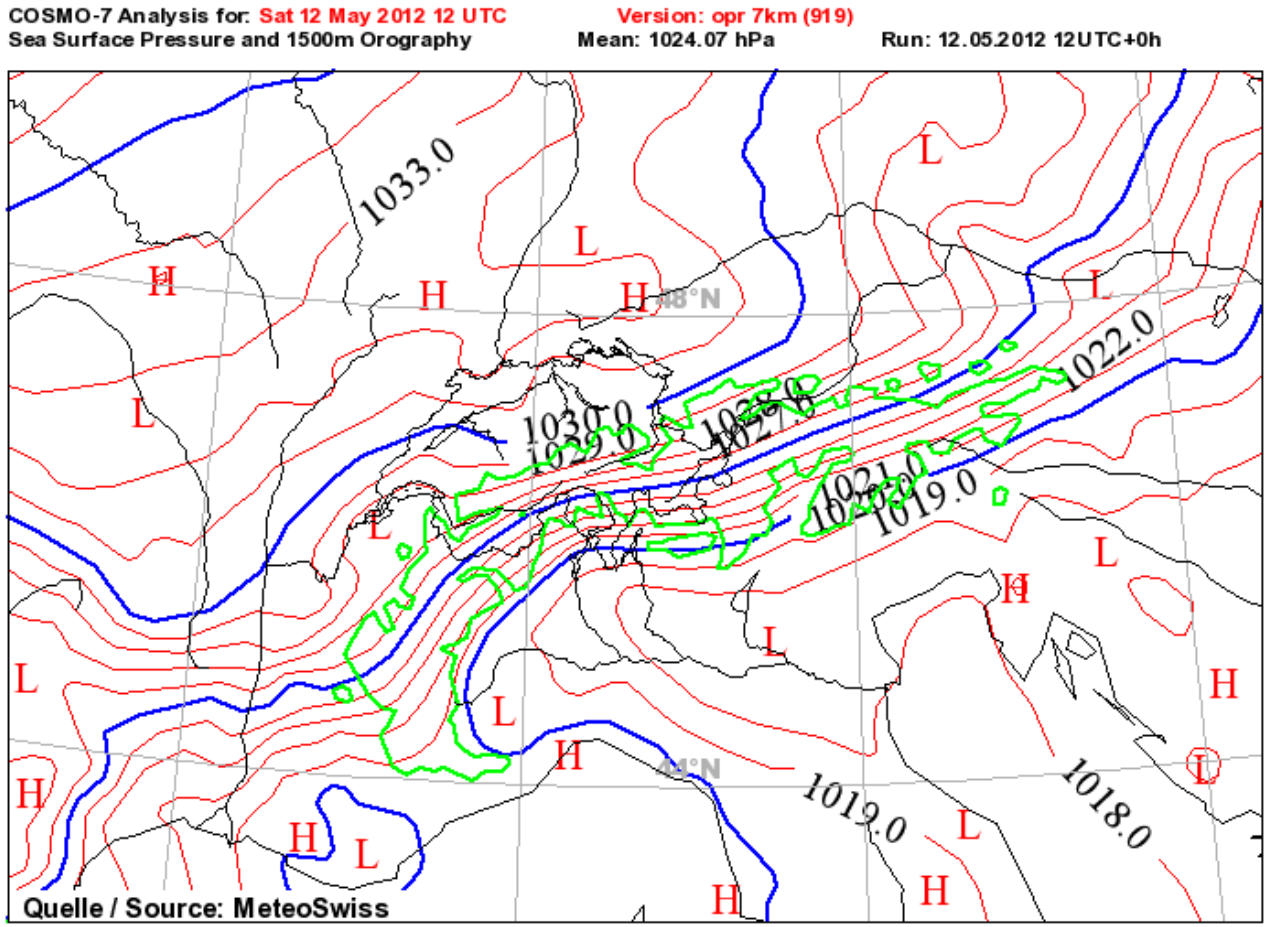


La distribuzione delle situazioni

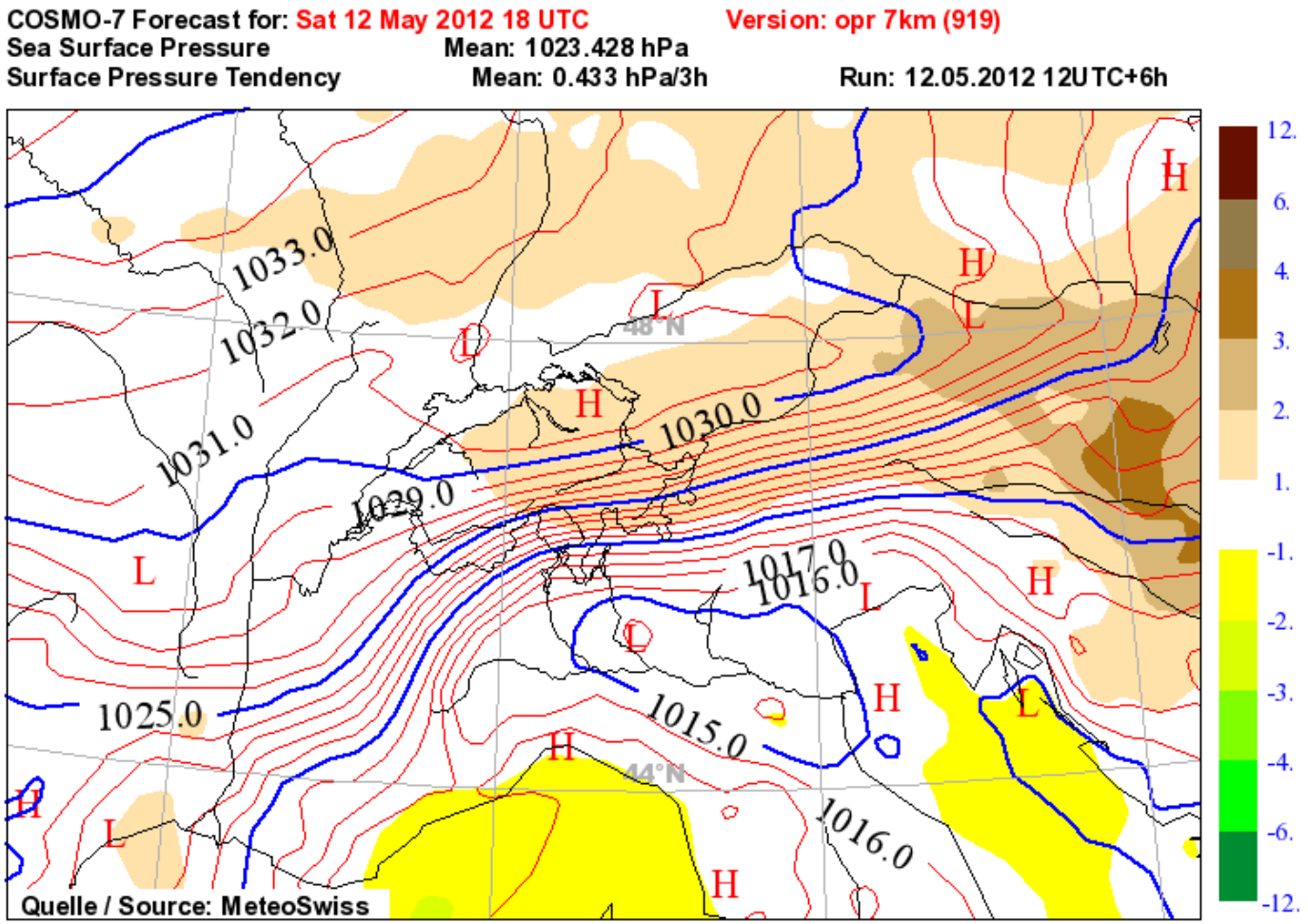


12 maggio 2012: Favonio e Retour

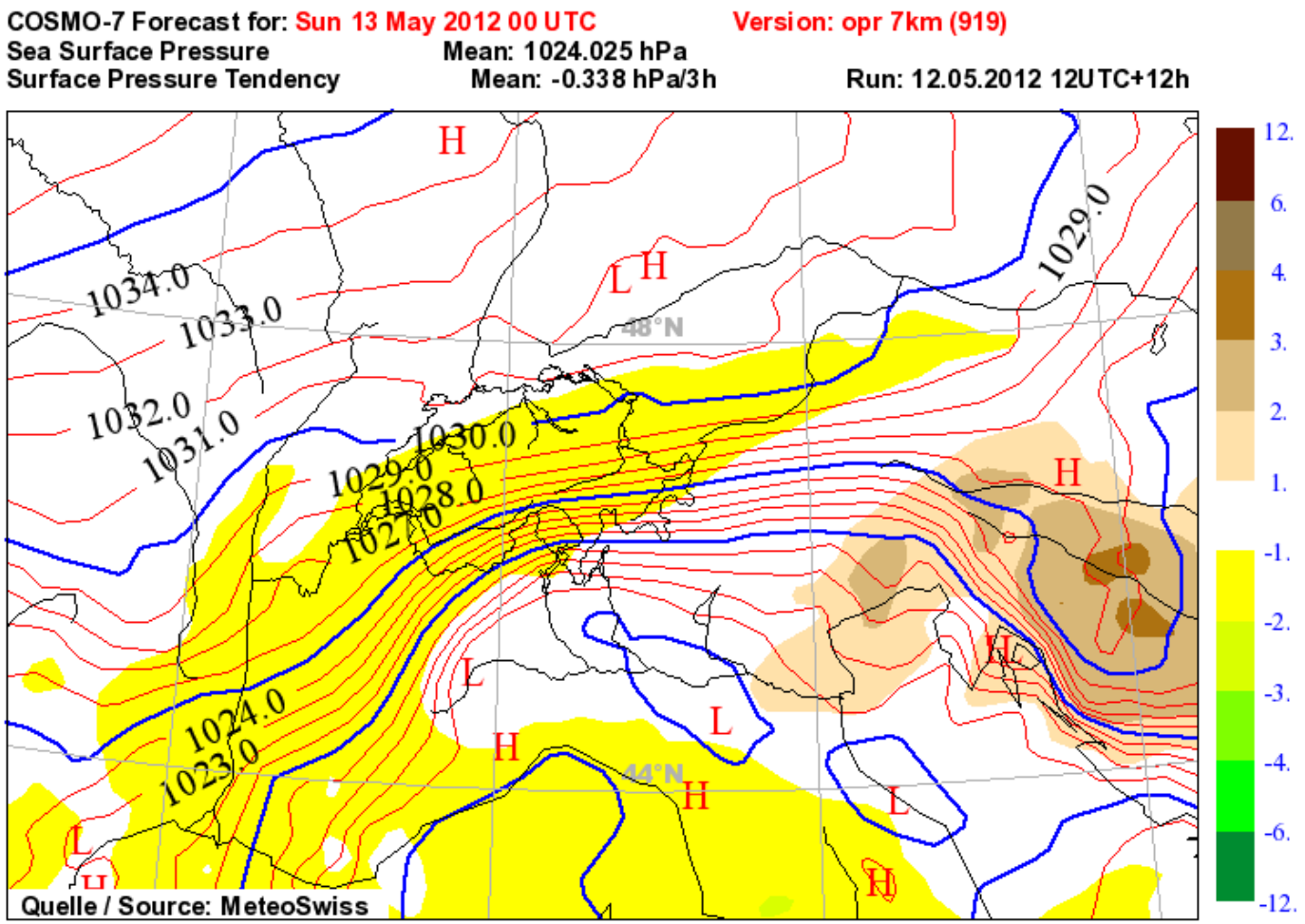
Pressione al suolo



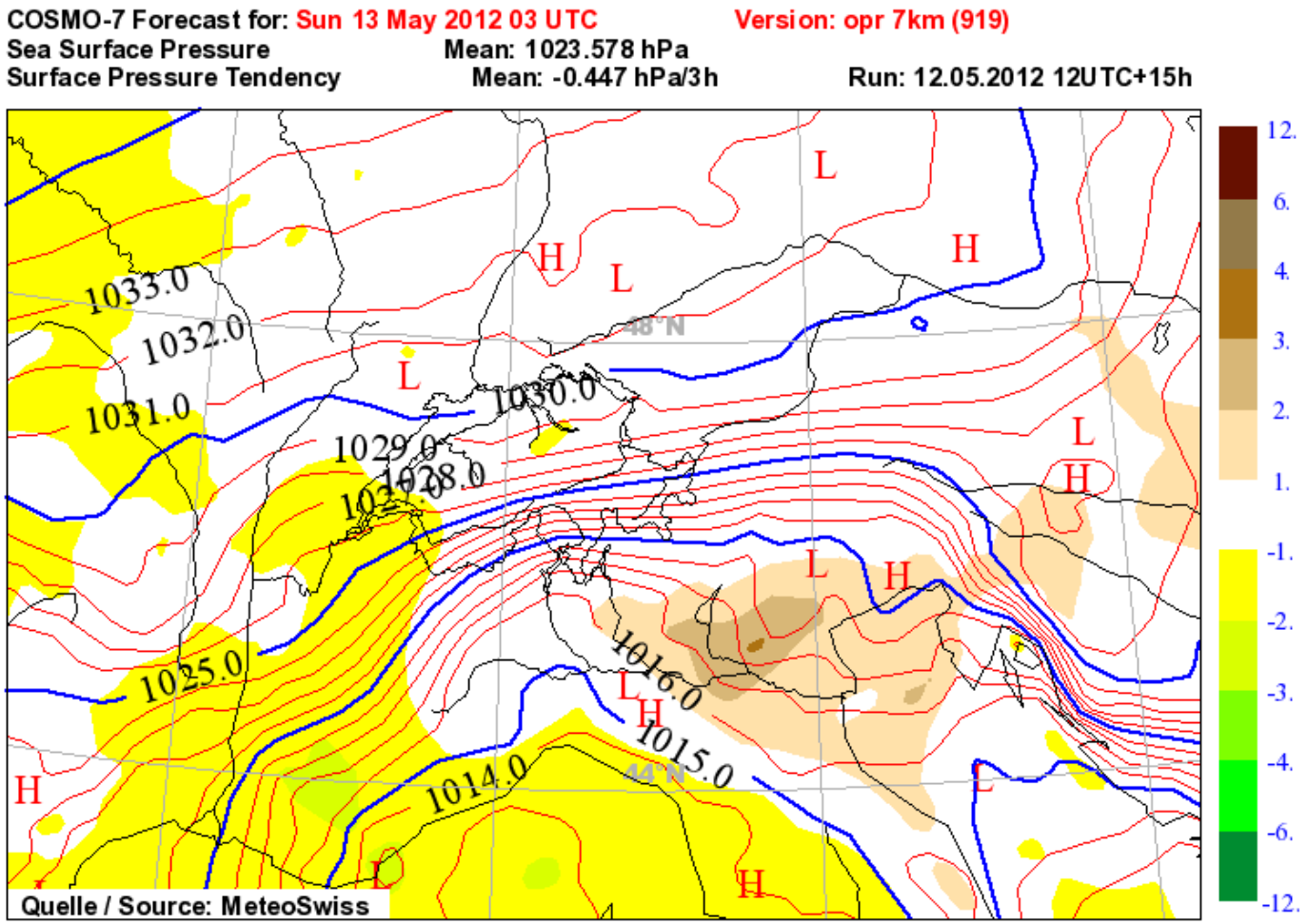
Pressione al suolo



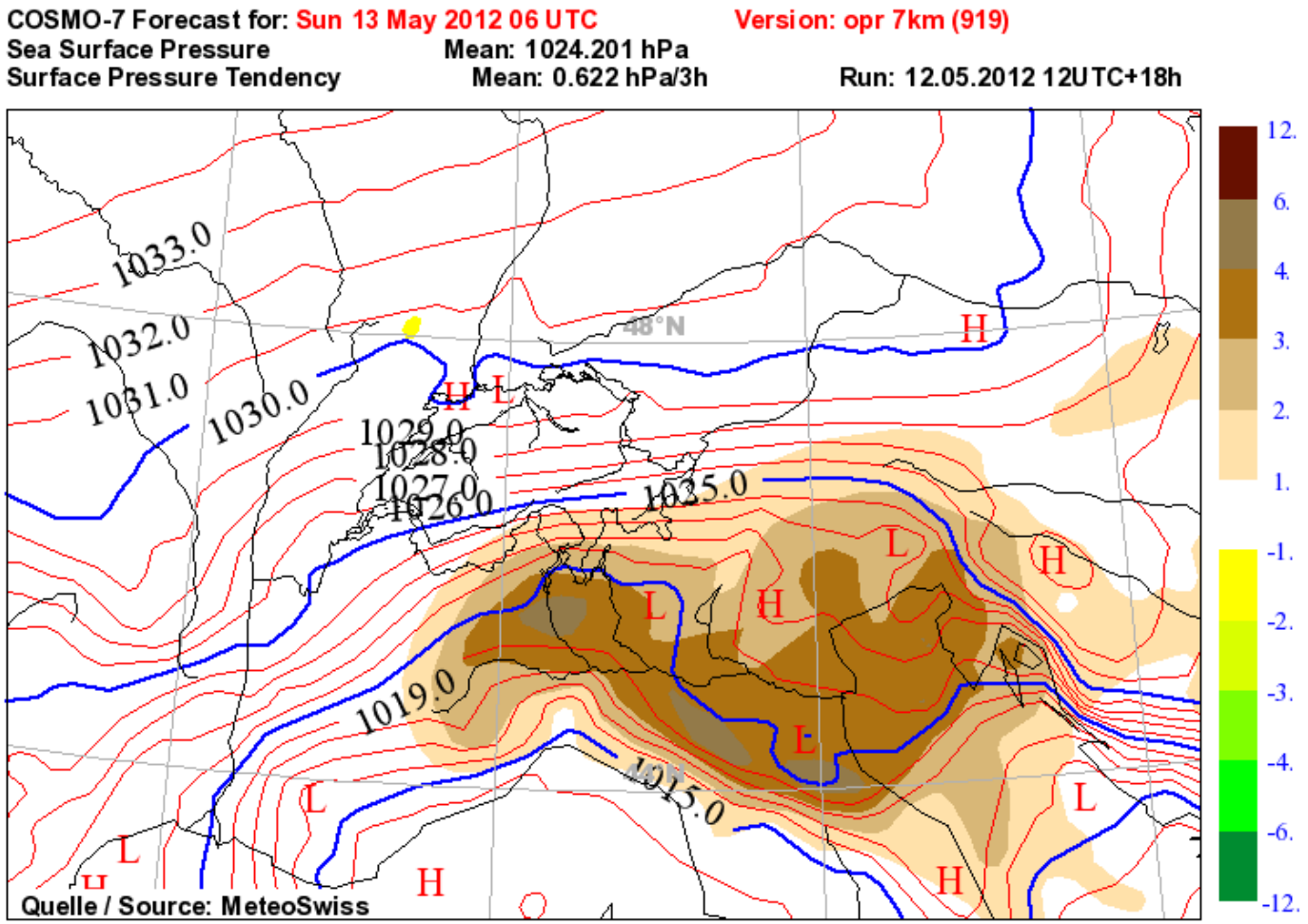
Pressione al suolo



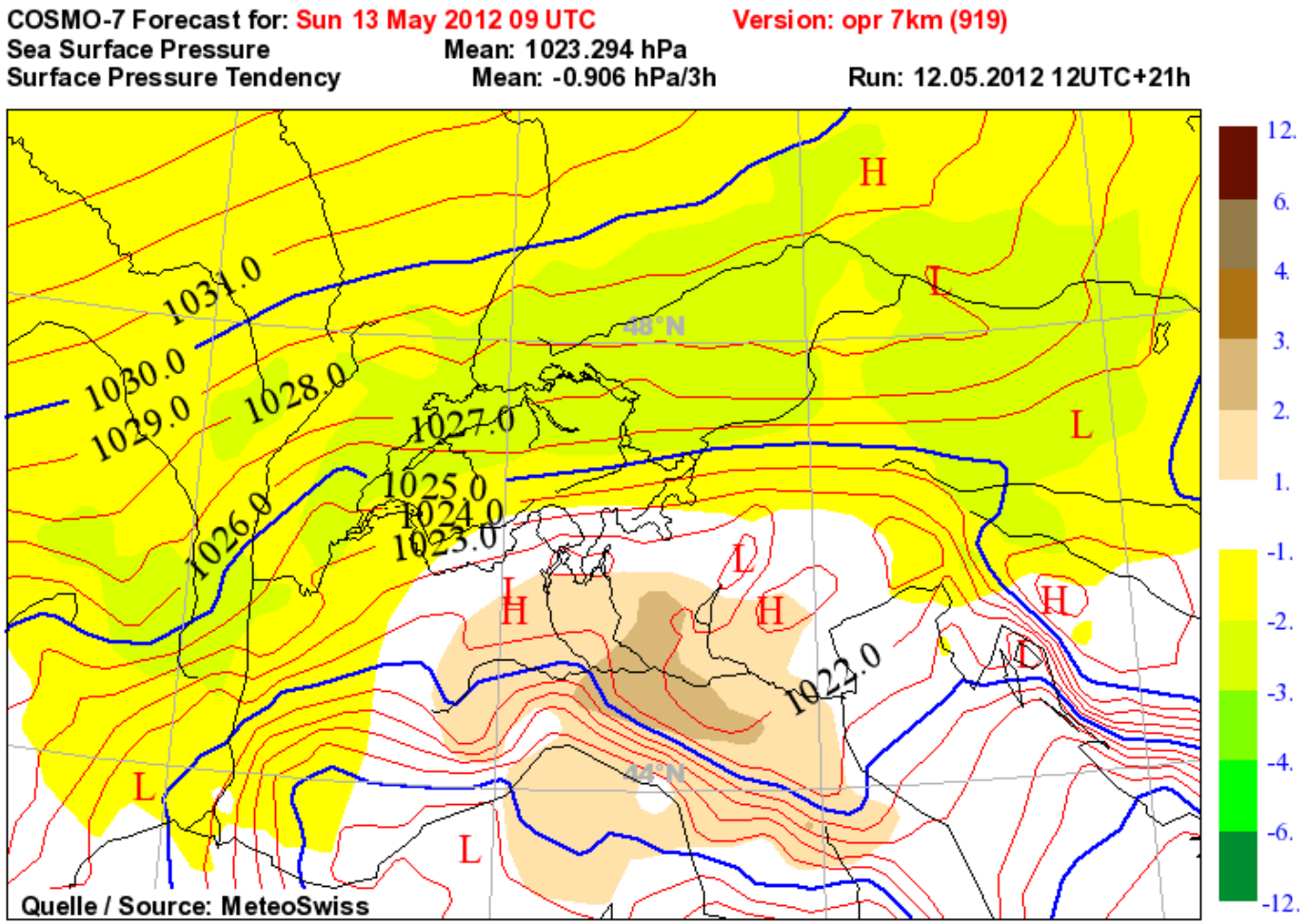
Pressione al suolo

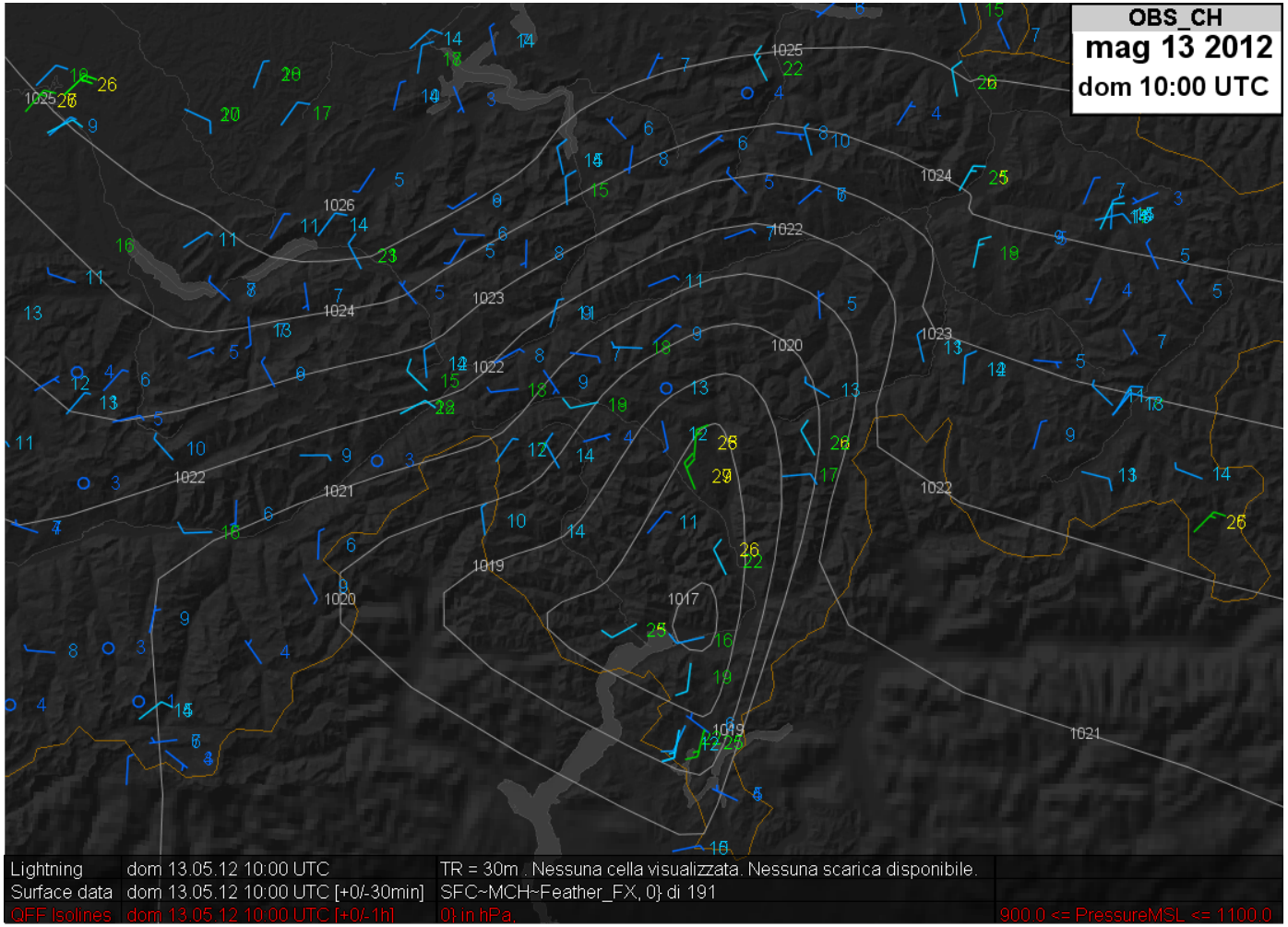


Pressione al suolo

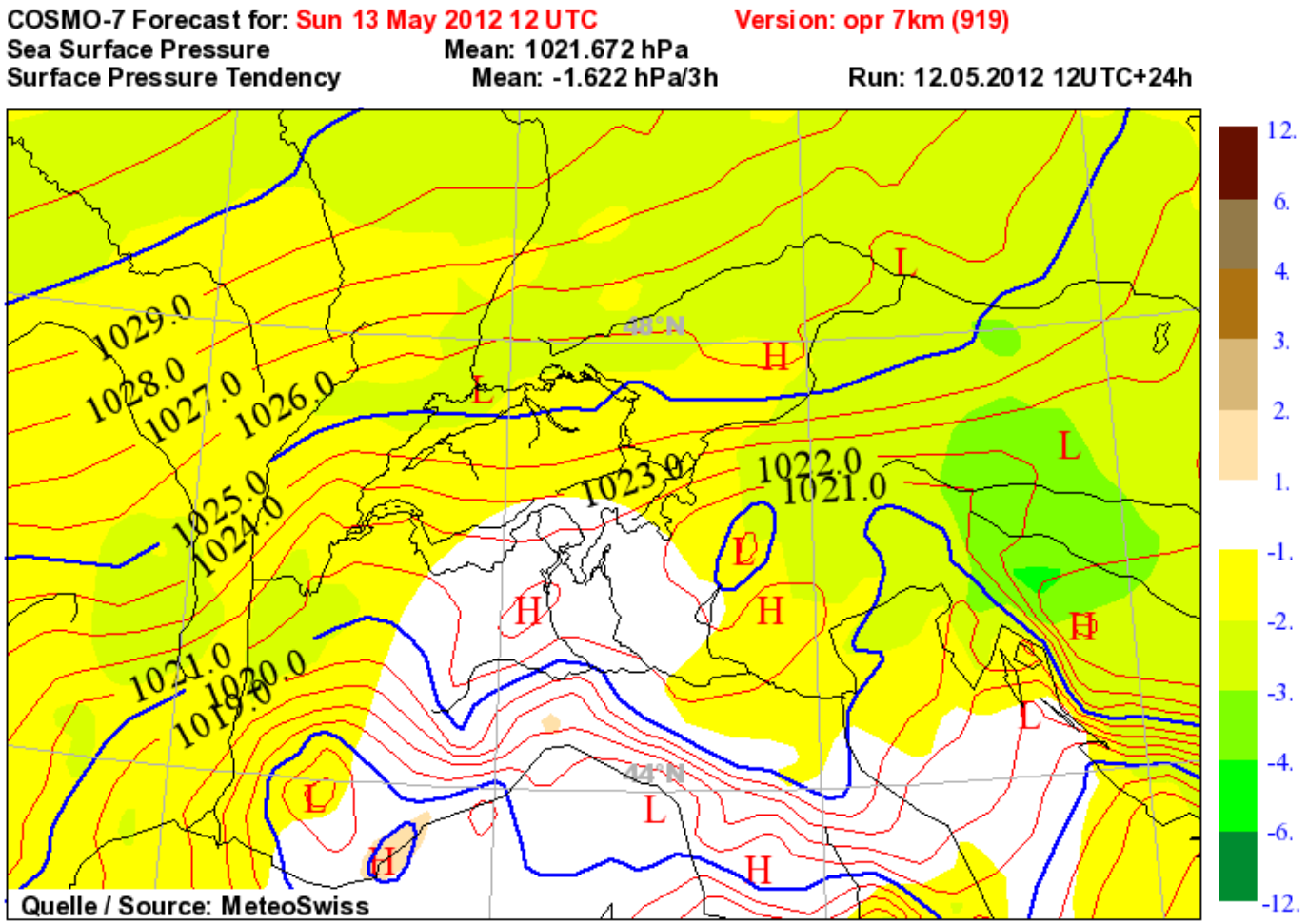


Pressione al suolo

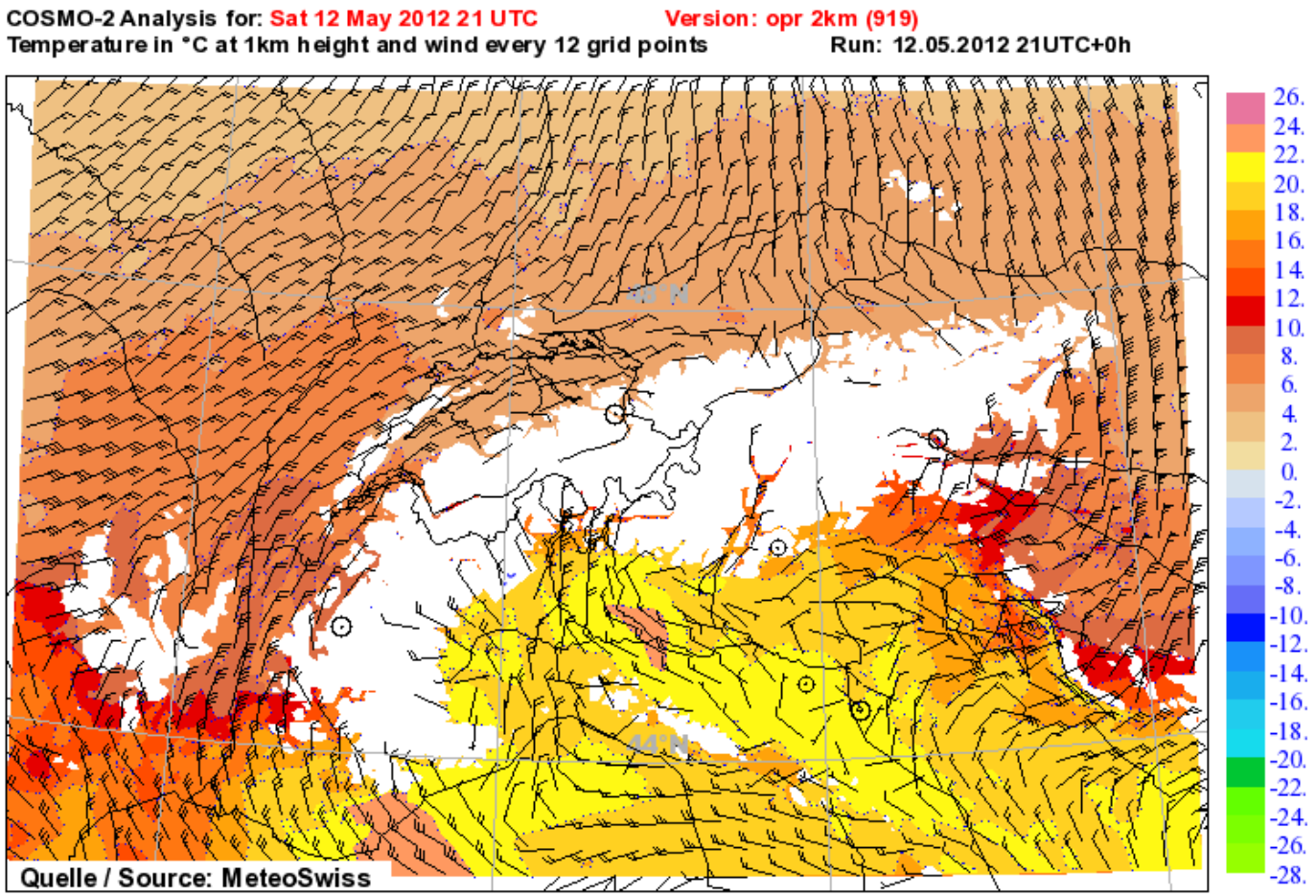



OBS_CH
mag 13 2012
dom 10:00 UTC
Lightning
dom 13.05.12 10:00 UTC
TR = 30m . Nessuna cella visualizzata. Nessuna scarica disponibile.
Surface data
dom 13.05.12 10:00 UTC [+0/-30min]
SFC~MCH~Feather_FX, 0} di 191
QFF Isolines
dom 13.05.12 10:00 UTC [+0/-1h]
0} in hPa.
900.0 <= PressureMSL <= 1100.0

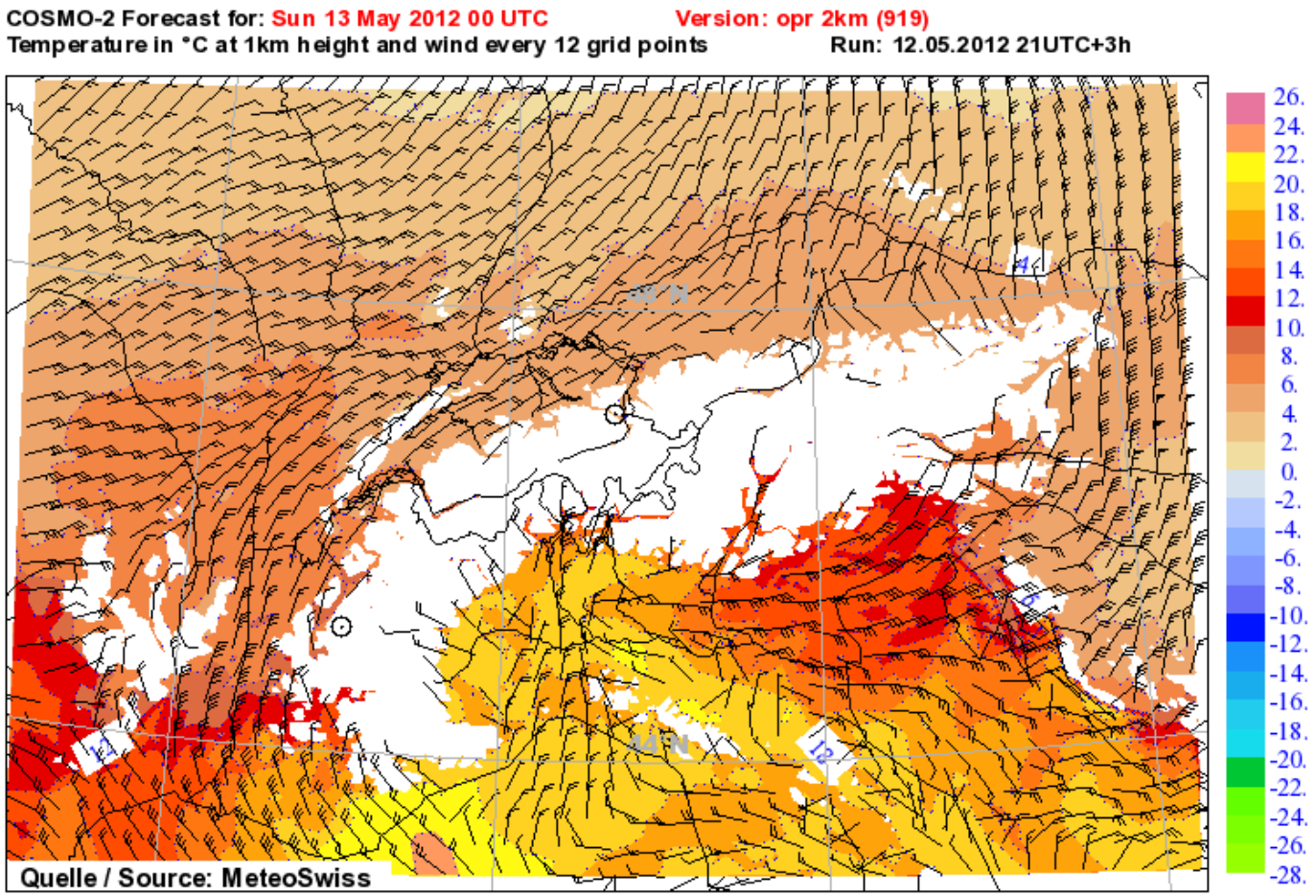
Pressione al suolo



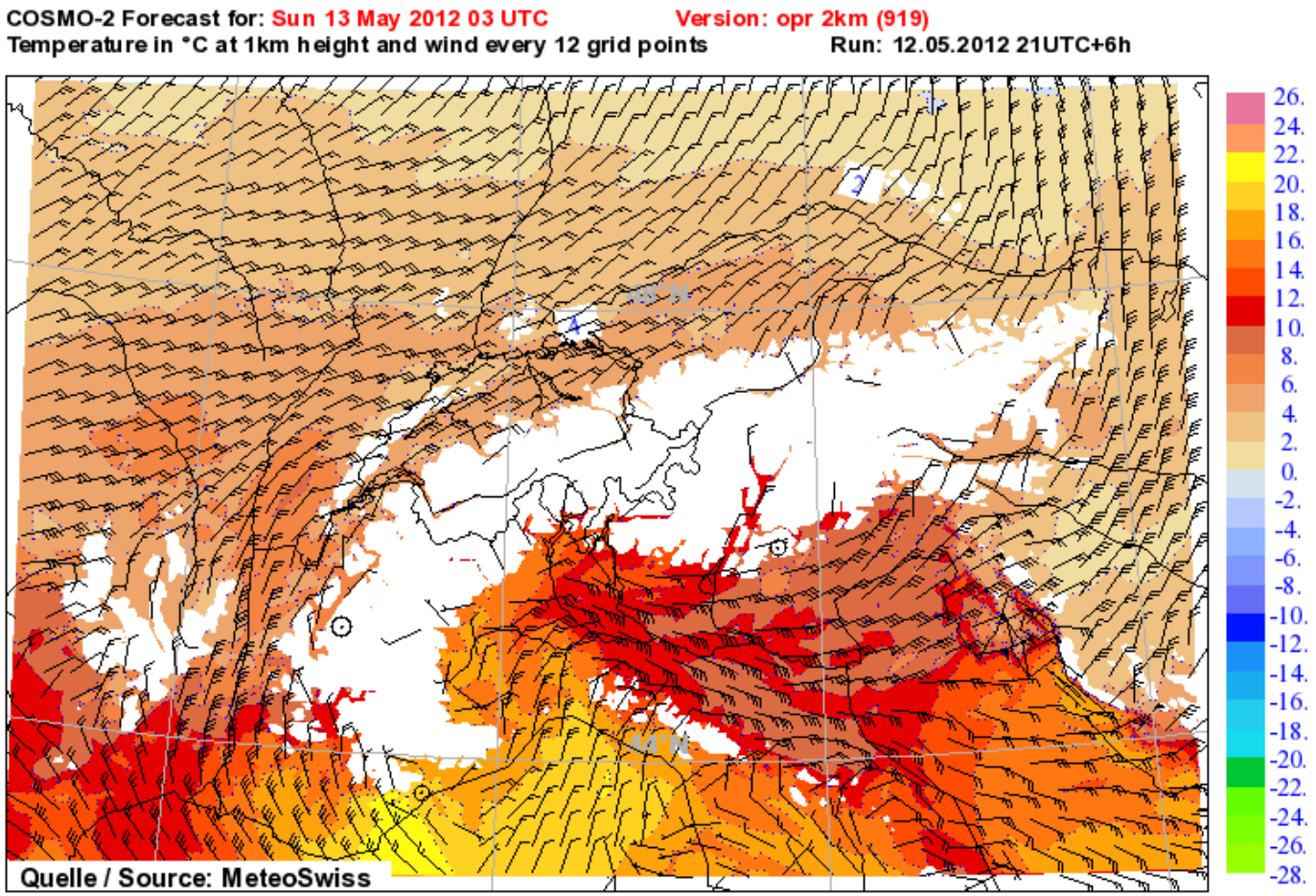
Vento e temperatura a 1000 m



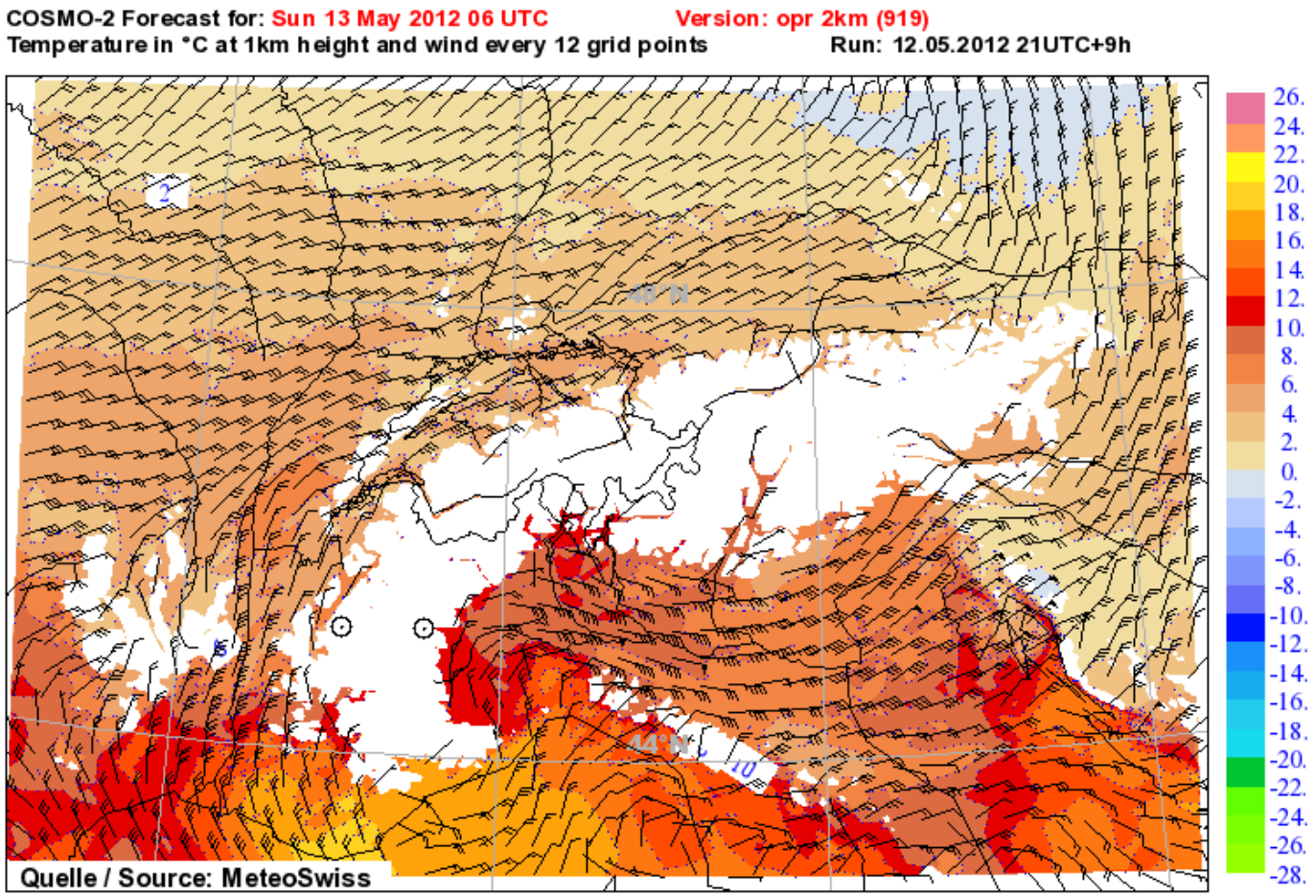
Vento e temperatura a 1000 m



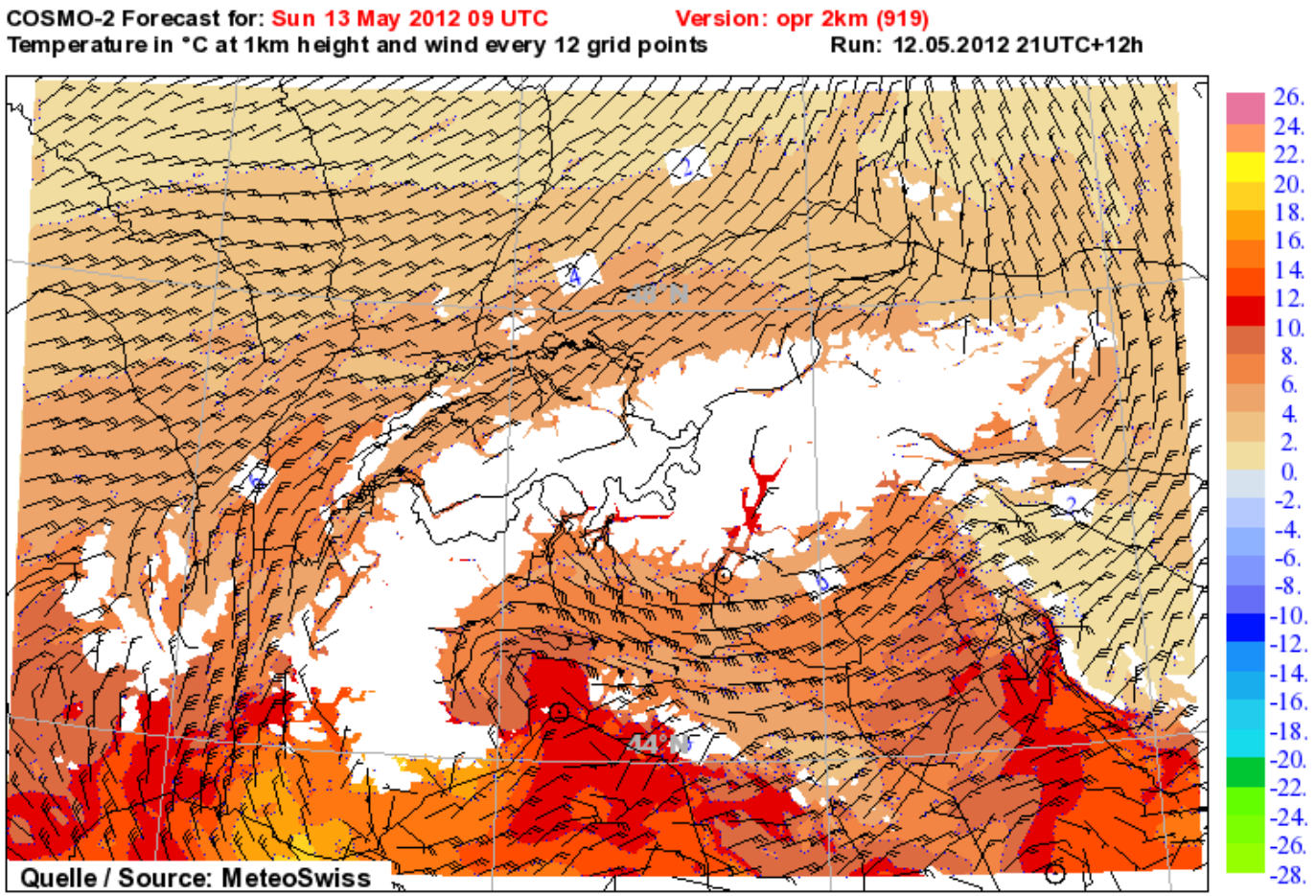
Vento e temperatura a 1000 m



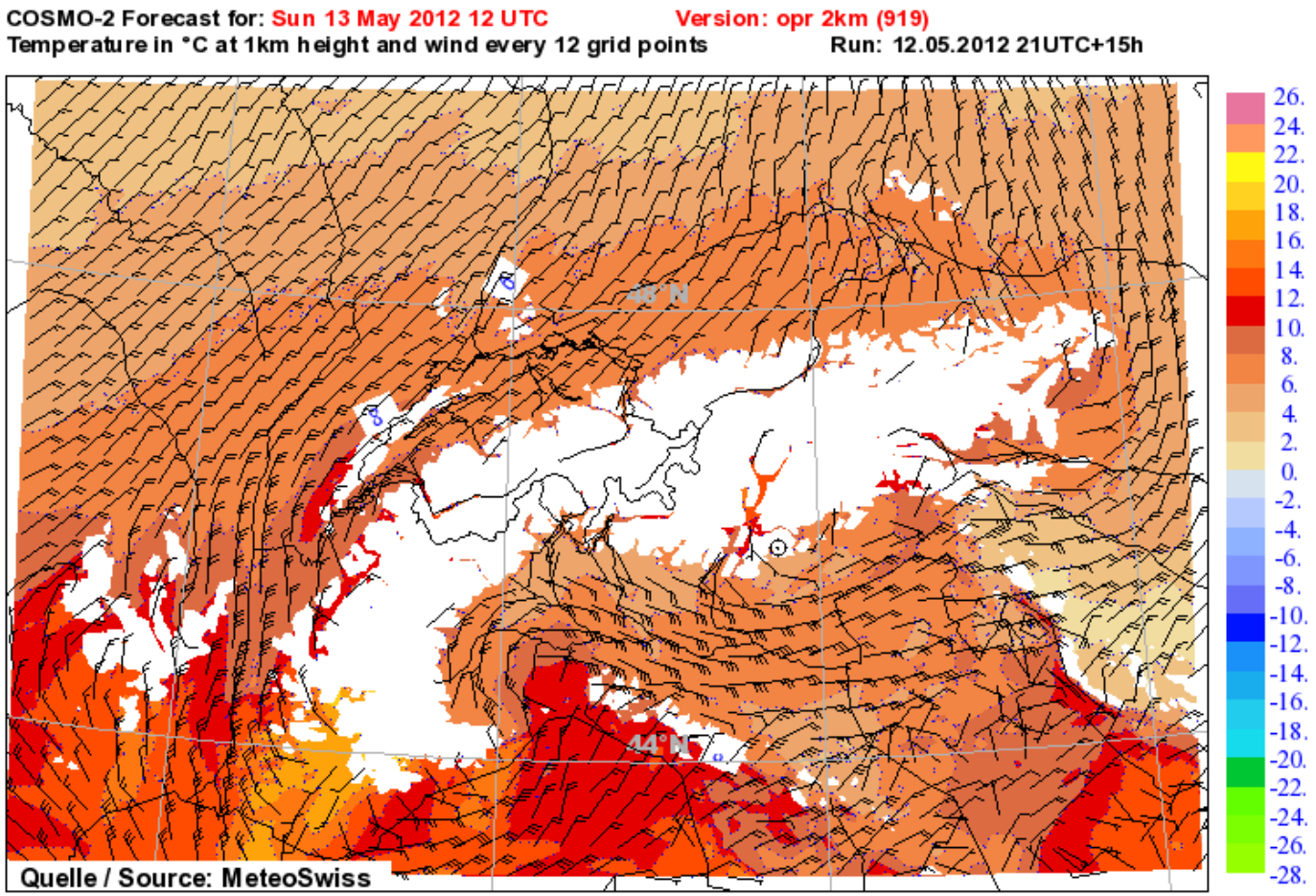
Vento e temperatura a 1000 m



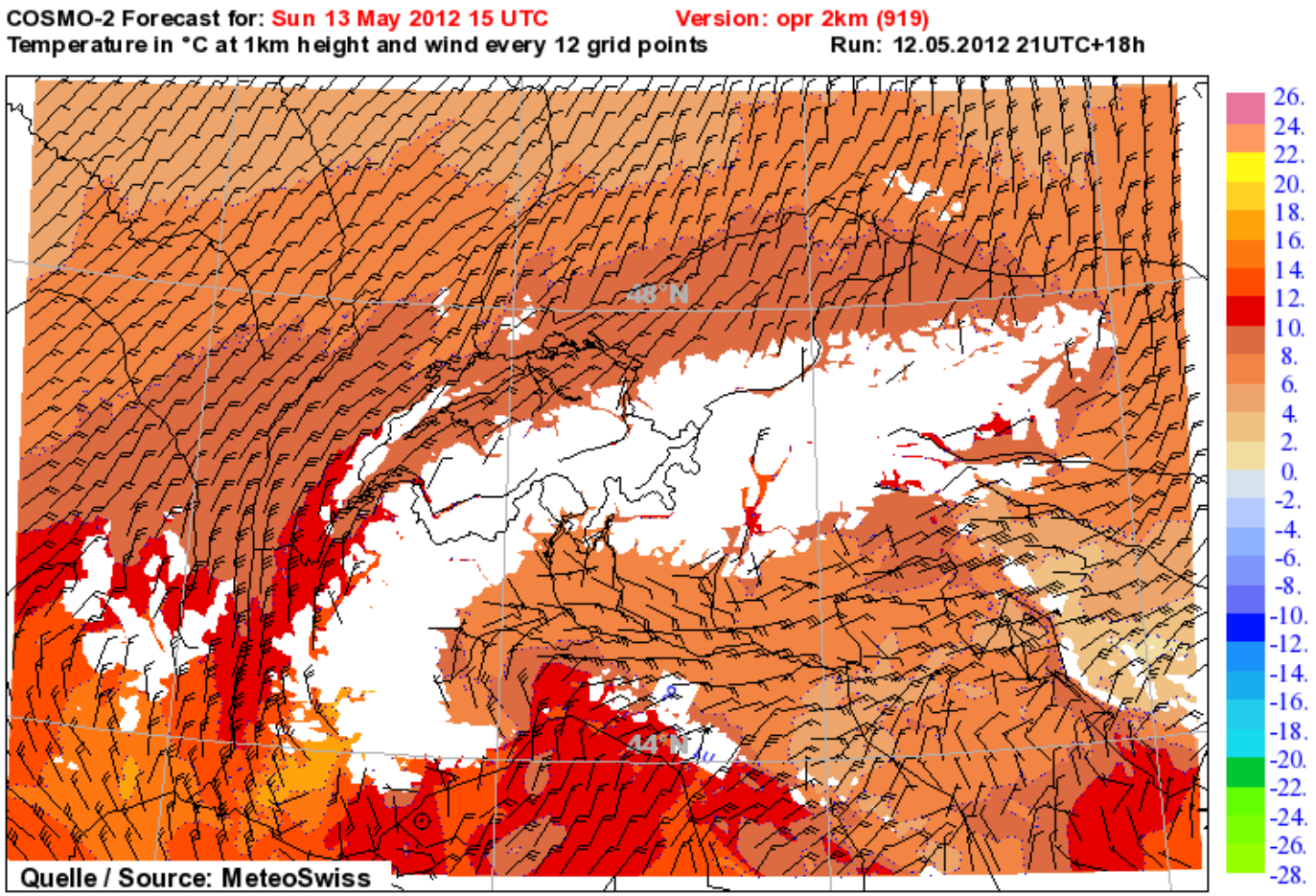
Vento e temperatura a 1000 m



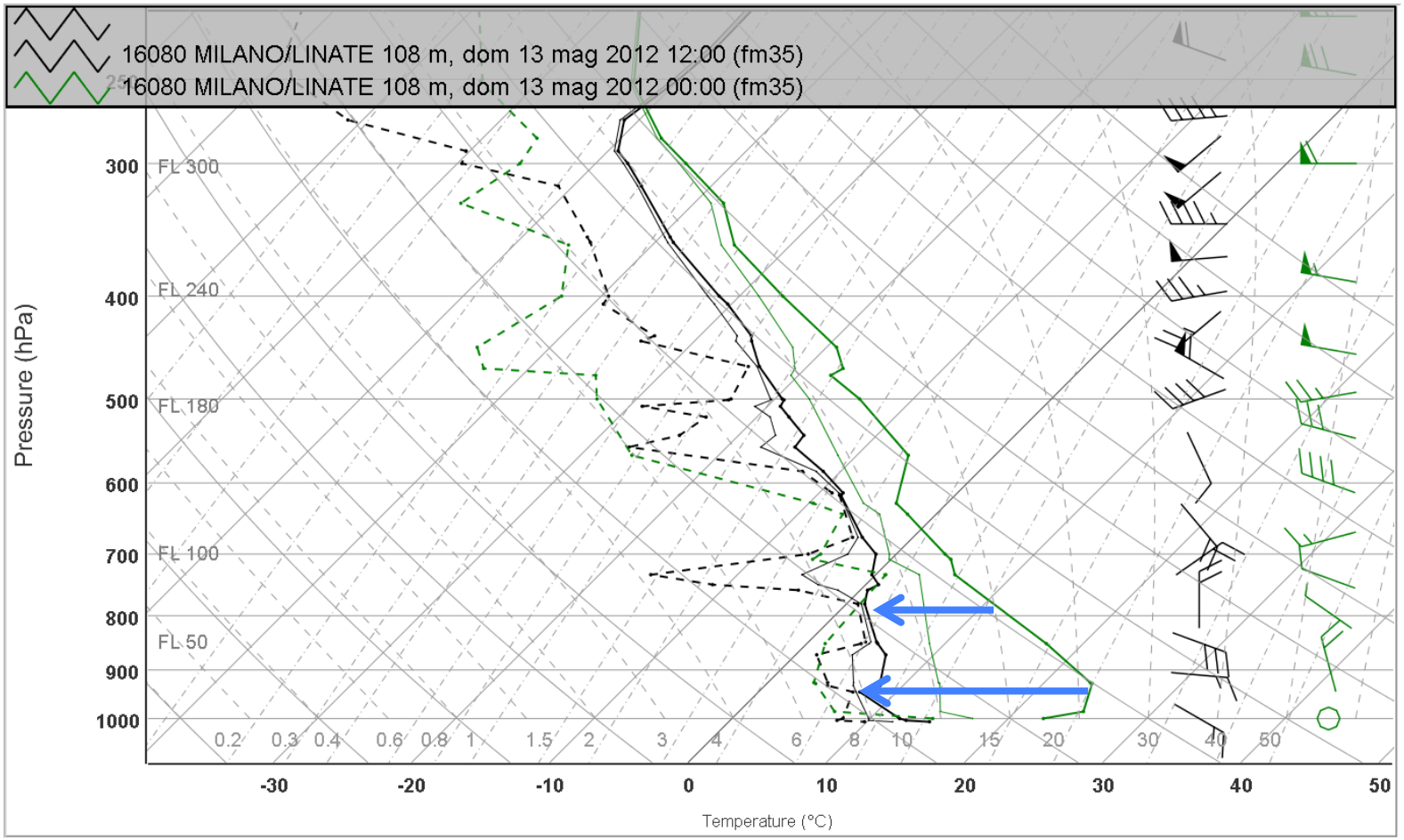
Vento e temperatura a 1000 m



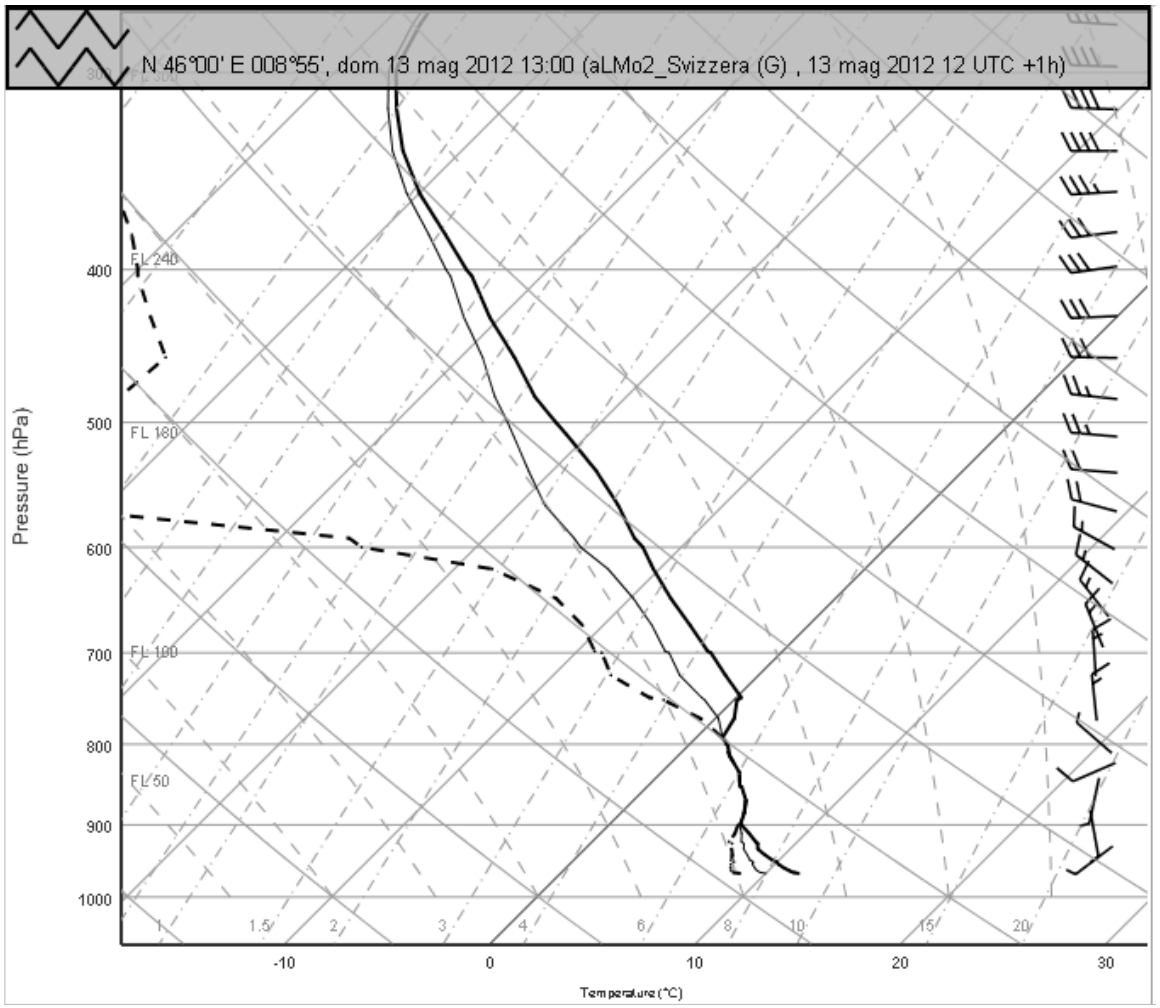
Vento e temperatura a 1000 m



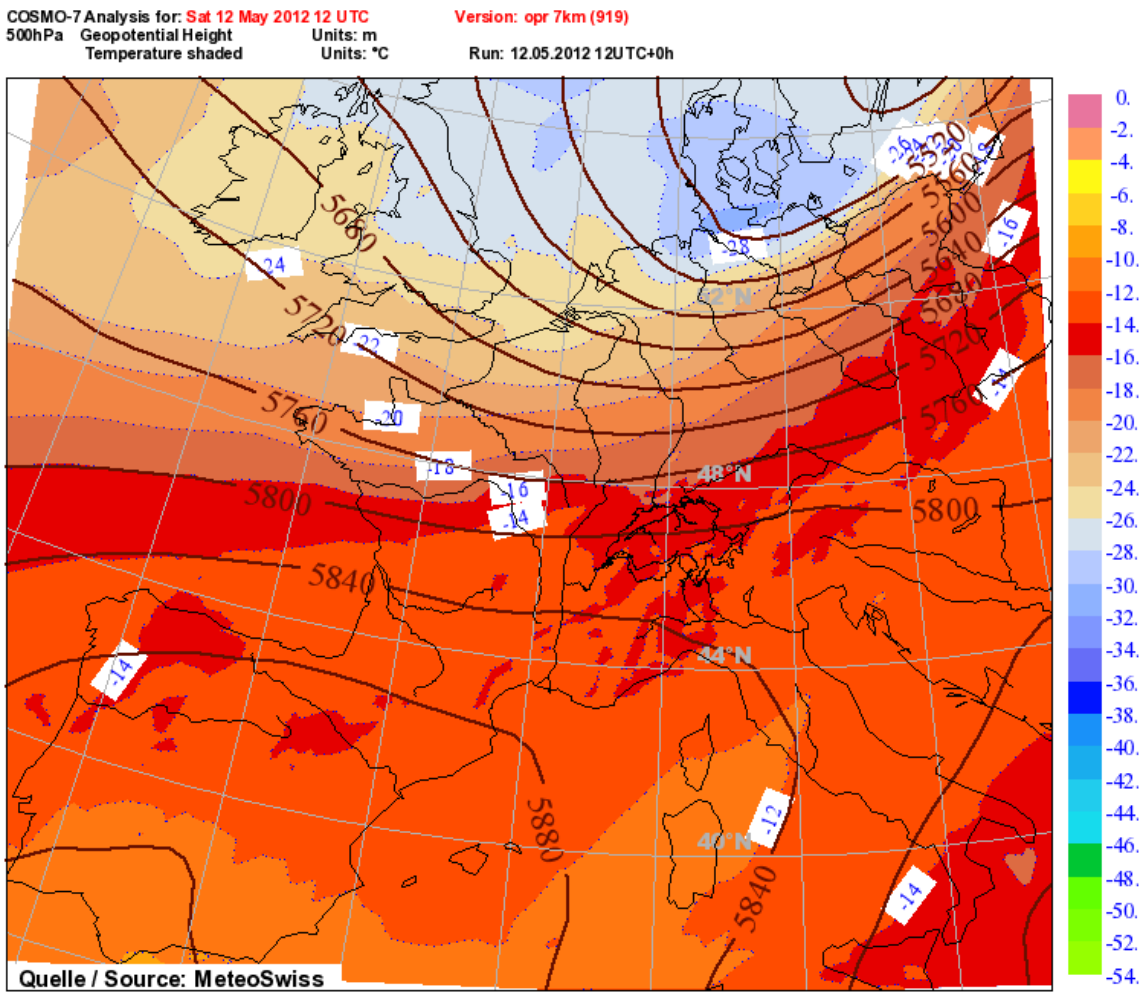
Radiosondaggio Milano



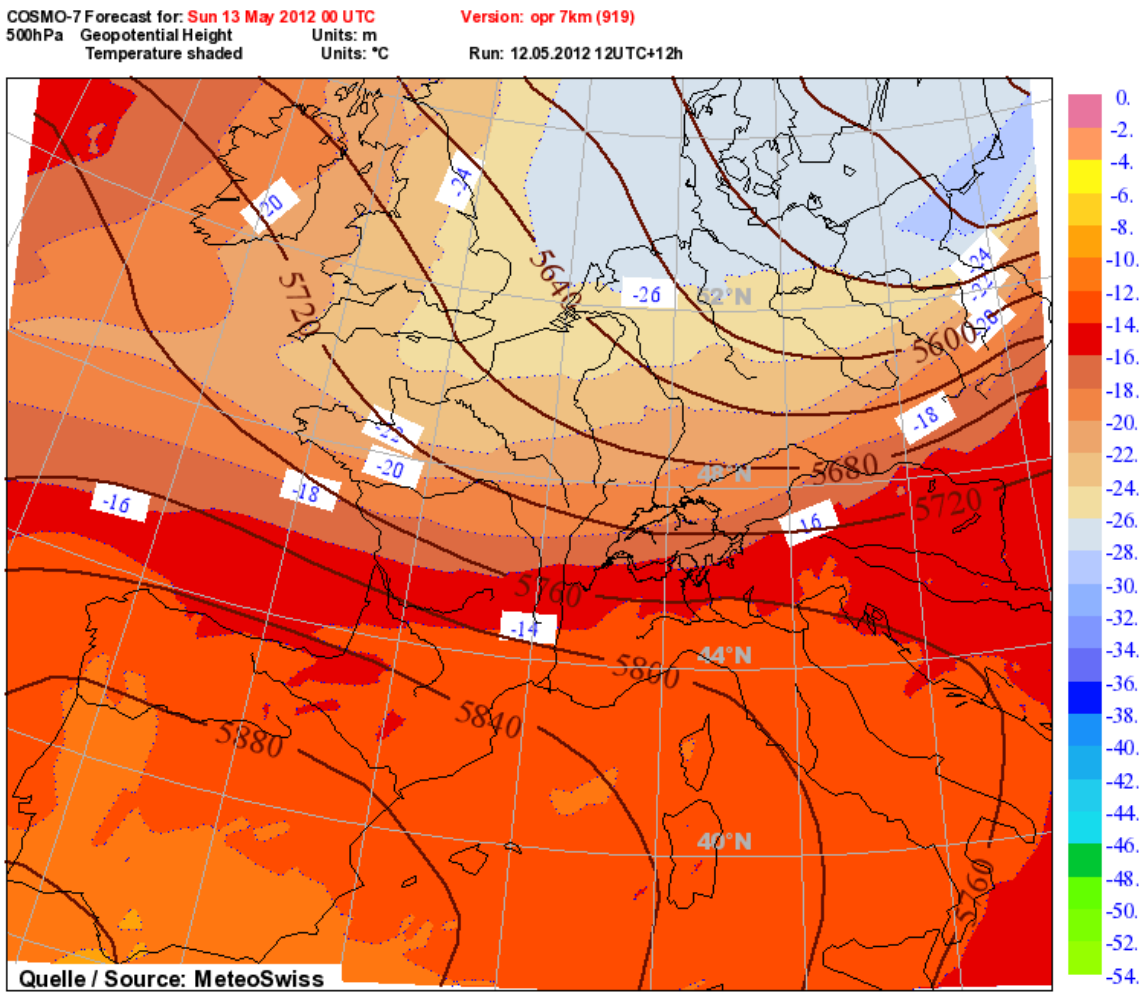
Formazione dello stratus



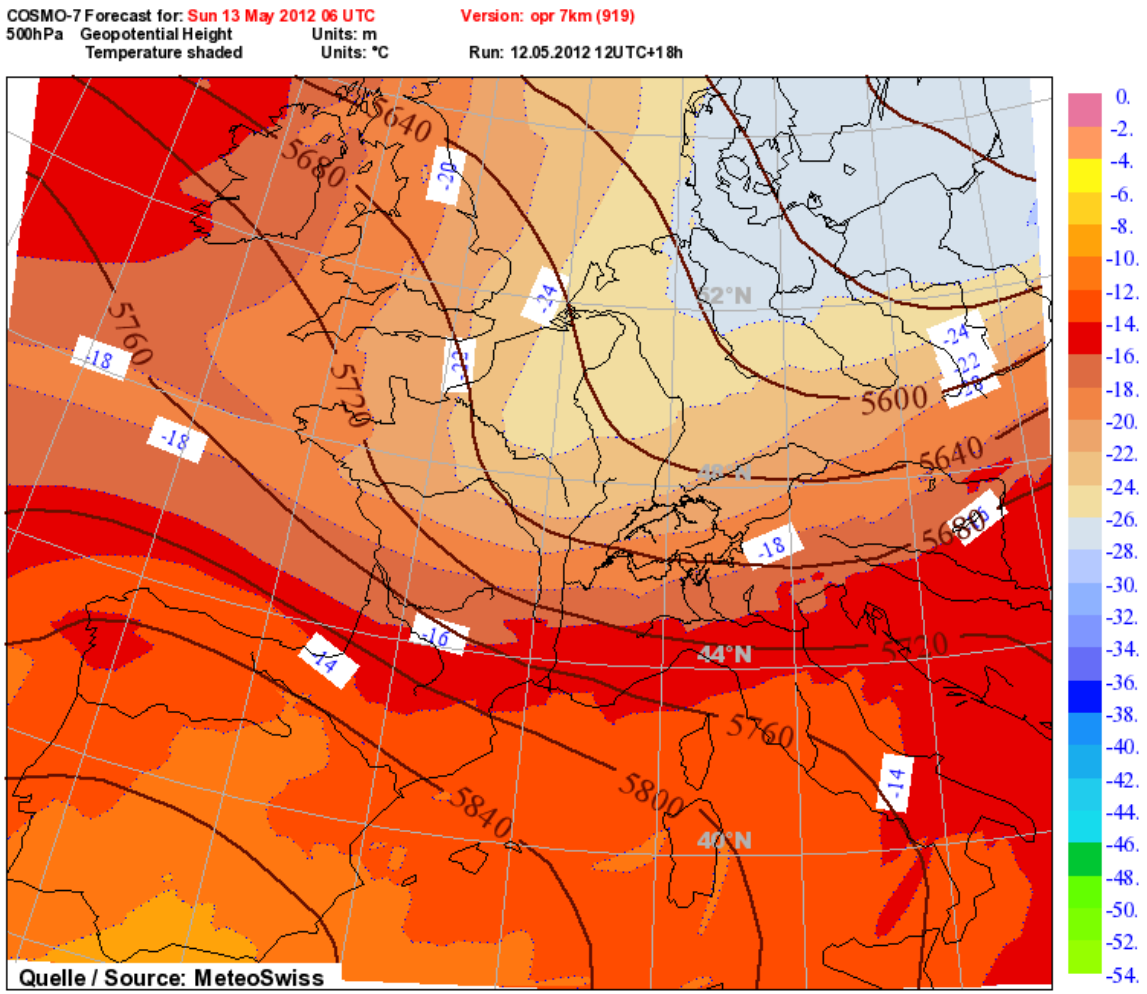
Z@500


COSMO-7 Analysis for: Sat 12 May 2012 12 UTC
Version: opr 7km (919)
500hPa Geopotential Height
Units: m
Temperature shaded
Units: °C
Run: 12.05.2012 12UTC+0h
5660
5720
5760
5800
5840
5880
5600
5640
48°N
44°N
40°N
Quelle / Source: MeteoSwiss
0.
-2.
-4.
-6.
-8.
-10.
-12.
-14.
-16.
-18.
-20.
-22.
-24.
-26.
-28.
-30.
-32.
-34.
-36.
-38.
-40.
-42.
-44.
-46.
-48.
-50.
-52.
-54.

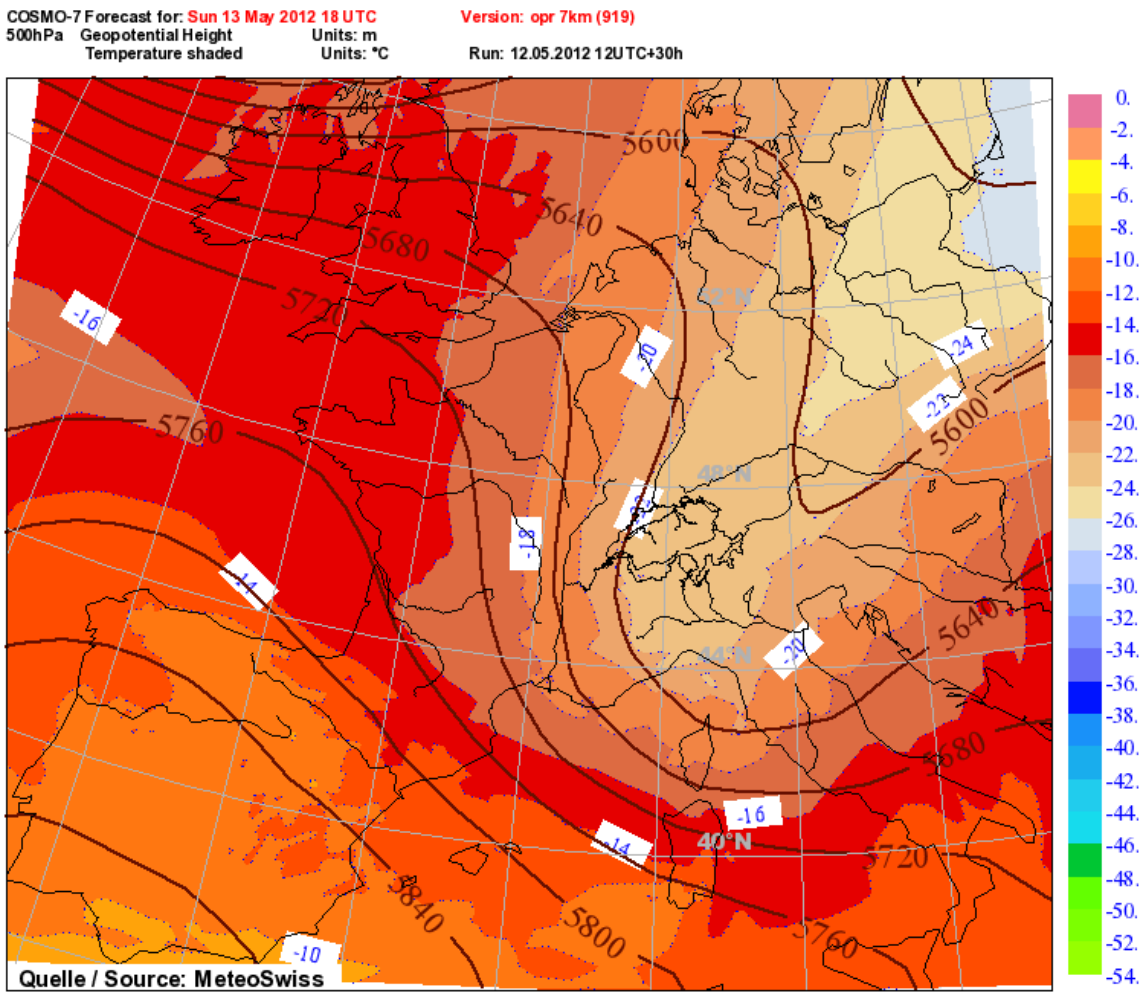
Z@500


COSMO-7 Forecast for: Sun 13 May 2012 00 UTC
Version: opr 7km (919)
500hPa Geopotential Height
Units: m
Temperature shaded
Units: °C
Run: 12.05.2012 12UTC+12h
5720
5640
5600
5680
5760
5800
5840
5880
-20
-24
-26
-18
-16
-14
52°N
44°N
40°N
0.
-2.
-4.
-6.
-8.
-10.
-12.
-14.
-16.
-18.
-20.
-22.
-24.
-26.
-28.
-30.
-32.
-34.
-36.
-38.
-40.
-42.
-44.
-46.
-48.
-50.
-52.
-54.
Quelle / Source: MeteoSwiss

Z@500

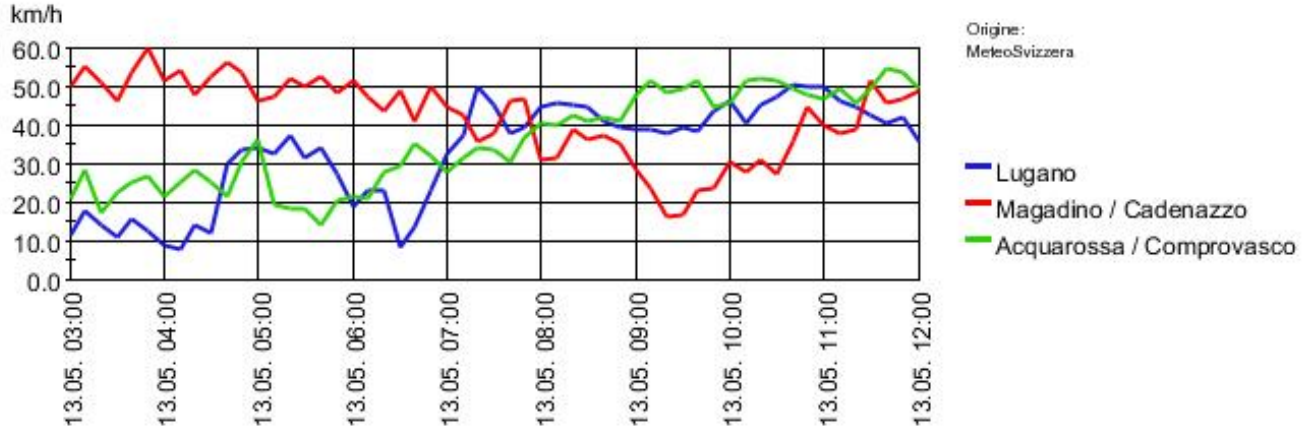

COSMO-7 Forecast for: Sun 13 May 2012 06 UTC
Version: opr 7km (919)
500hPa Geopotential Height
Units: m
Temperature shaded
Units: °C
Run: 12.05.2012 12UTC+18h
5640
5680
5760
5720
5600
5800
5840
-20
-24
-18
-16
-14
52°N
44°N
40°N
0.
-2.
-4.
-6.
-8.
-10.
-12.
-14.
-16.
-18.
-20.
-22.
-24.
-26.
-28.
-30.
-32.
-34.
-36.
-38.
-40.
-42.
-44.
-46.
-48.
-50.
-52.
-54.
Quelle / Source: MeteoSwiss

Z@500

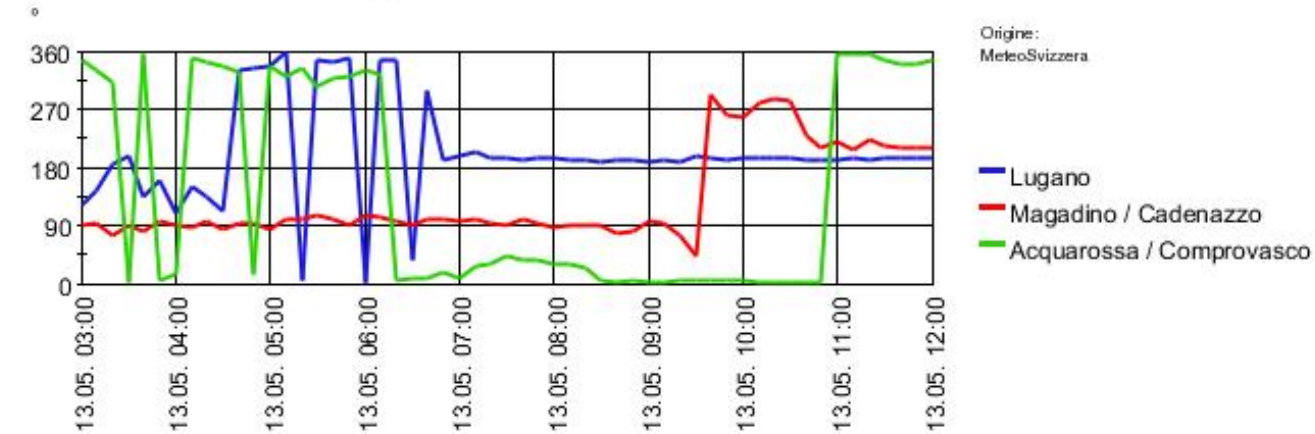

COSMO-7 Forecast for: Sun 13 May 2012 18 UTC
Version: opr 7km (919)
500hPa Geopotential Height
Units: m
Temperature shaded
Units: °C
Run: 12.05.2012 12UTC+30h
5600
5640
5680
5720
5760
5800
5840
-16
-10
-14
-18
-20
-24
42°N
40°N
0.
-2.
-4.
-6.
-8.
-10.
-12.
-14.
-16.
-18.
-20.
-22.
-24.
-26.
-28.
-30.
-32.
-34.
-36.
-38.
-40.
-42.
-44.
-46.
-48.
-50.
-52.
-54.
Quelle / Source: MeteoSwiss

Andamento del vento

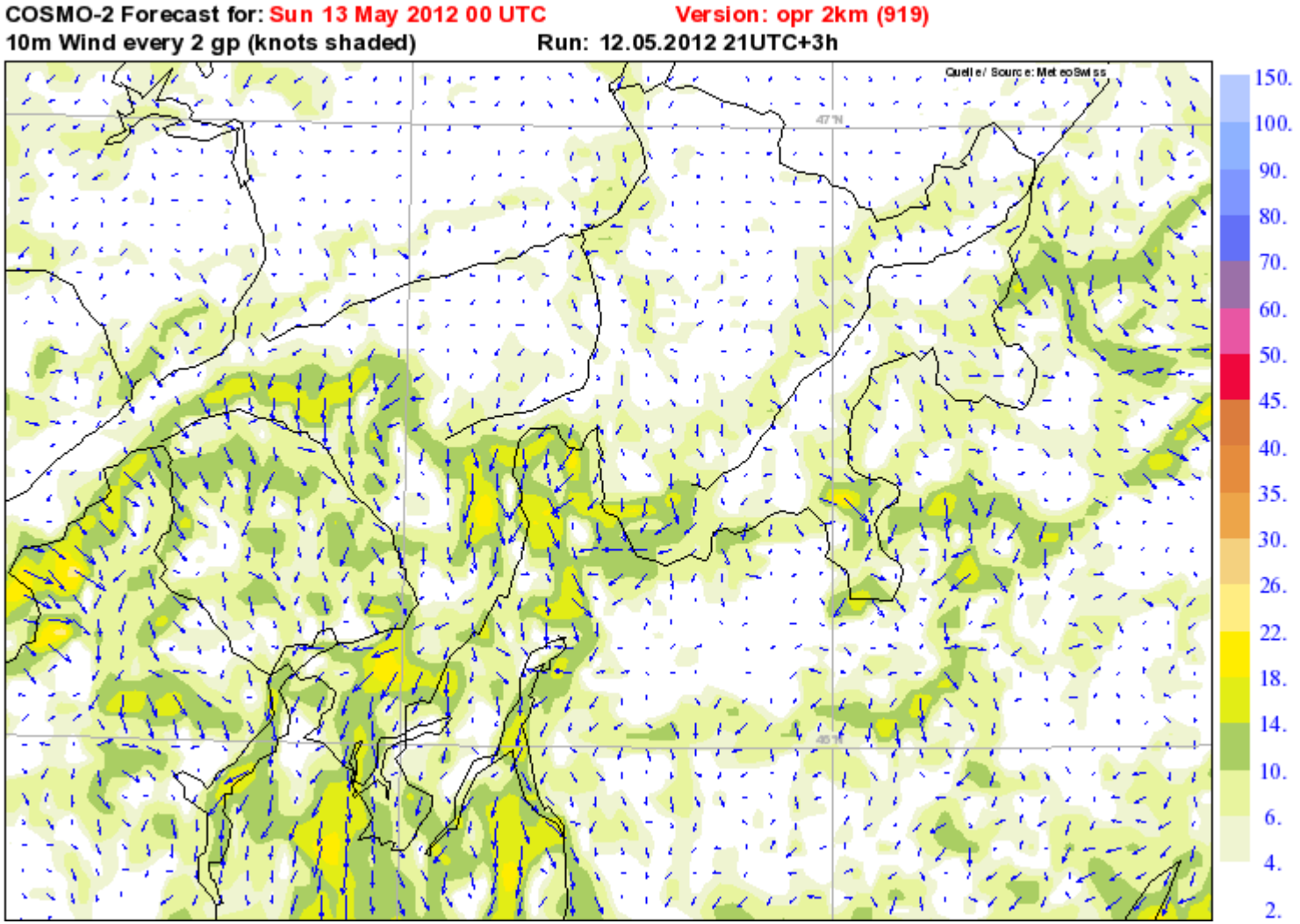
Raffica del vento (su un secondo); massima [km/h] 13.05.2012 03:00 UTC - 13.05.2012 12:00 UTC



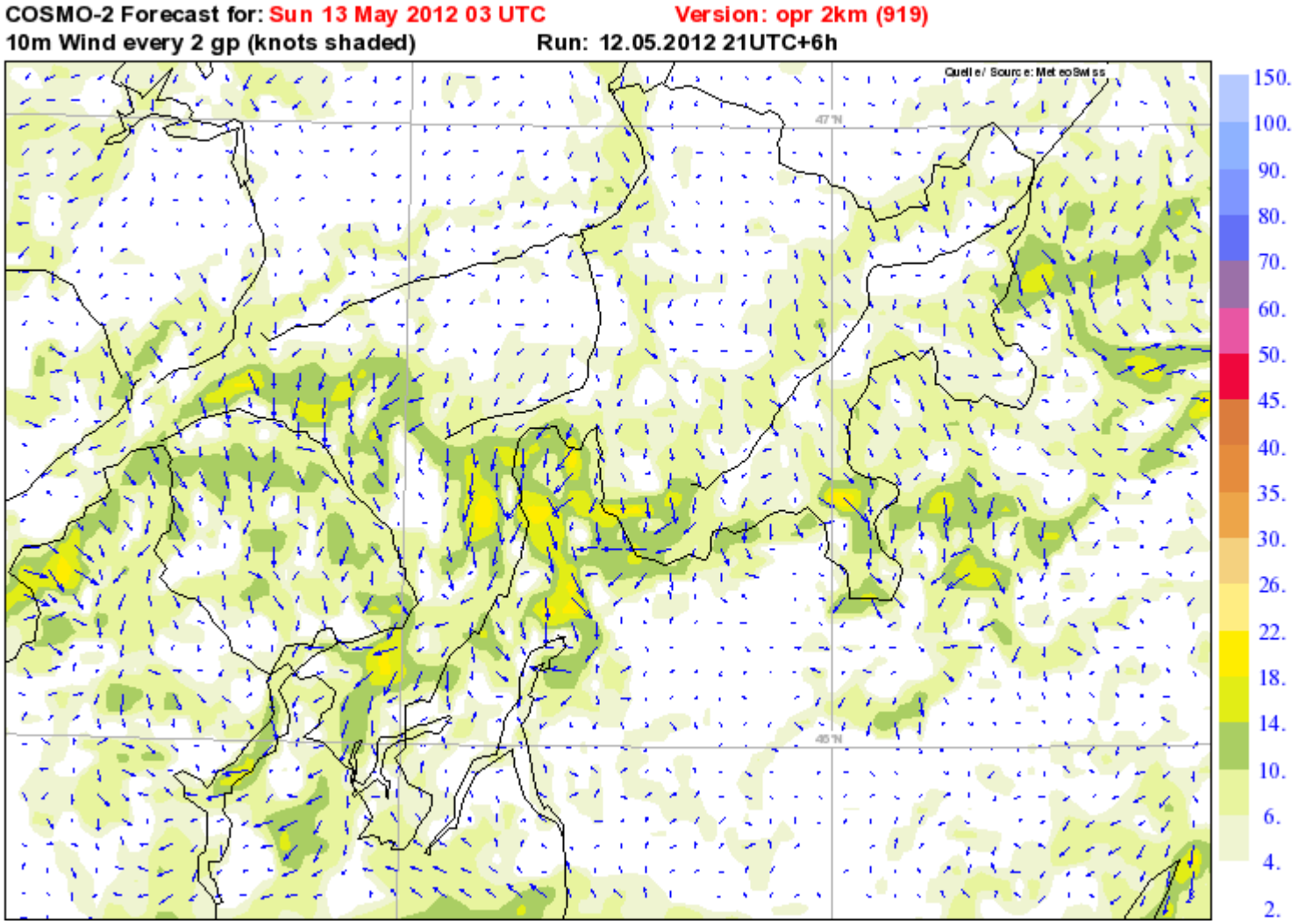
Direzione del vento; media su 10' [°] 13.05.2012 03:00 UTC - 13.05.2012 12:00 UTC



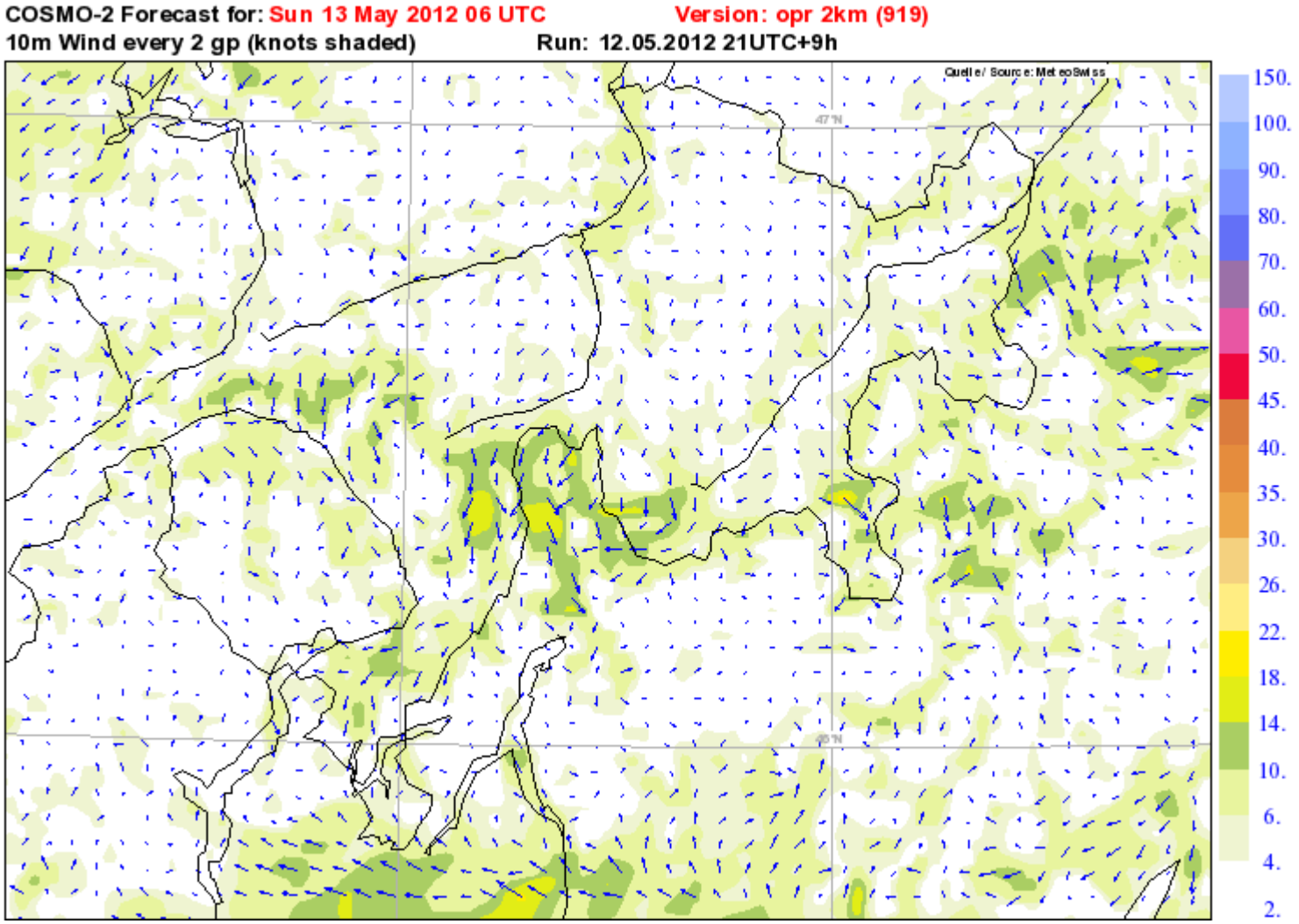
Vento a 10 m, COSMO-2



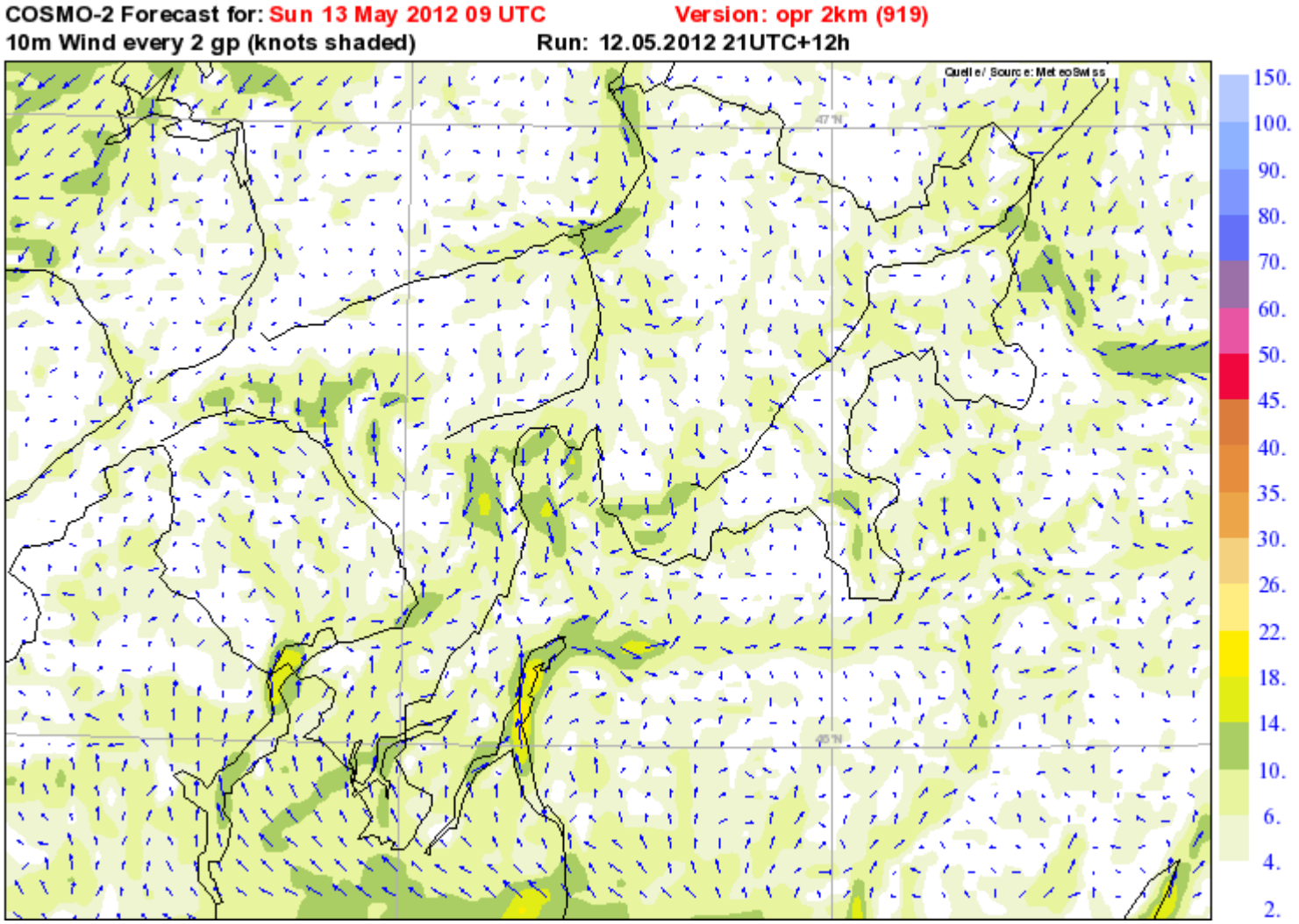
Vento a 10 m, COSMO-2



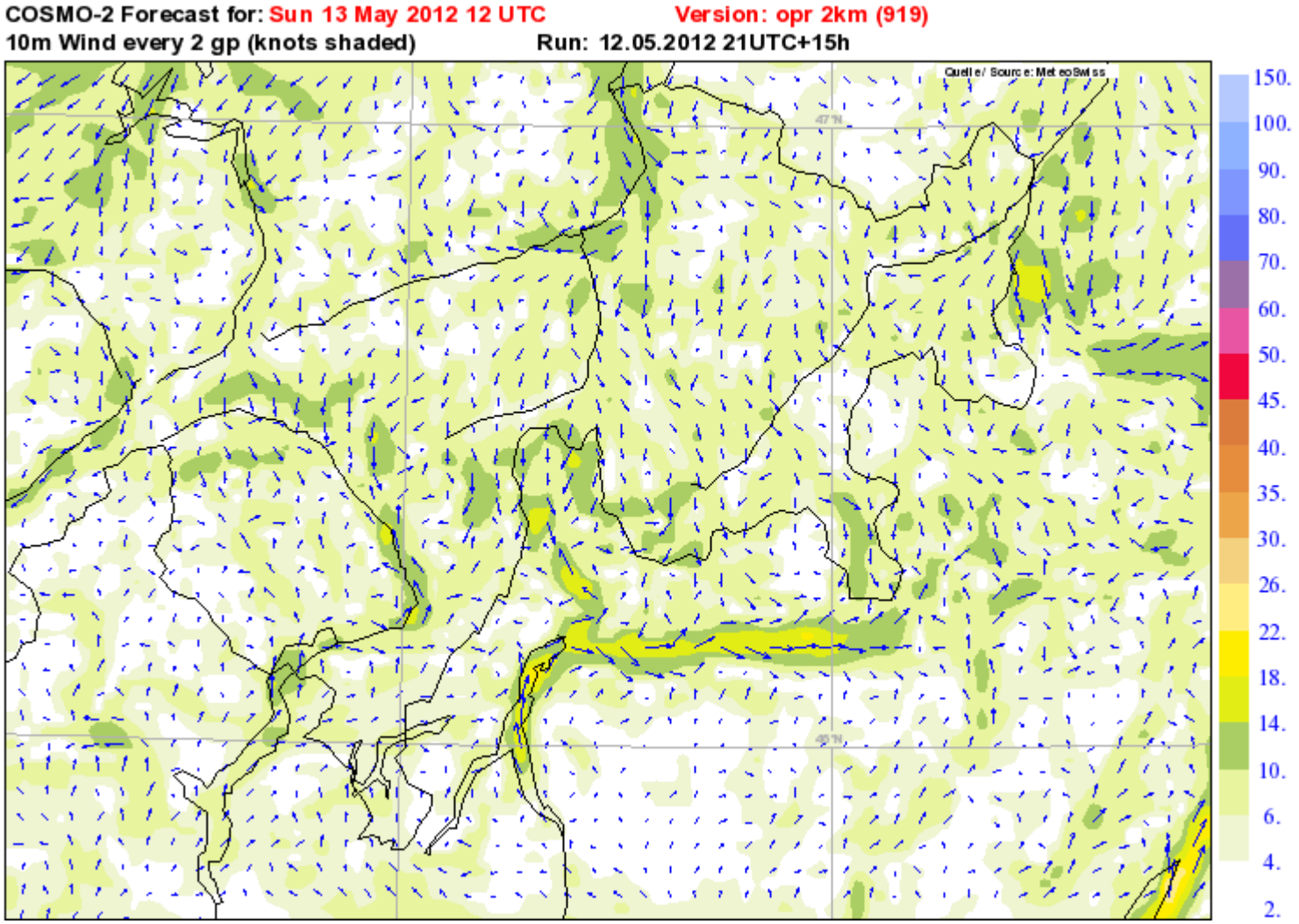
Vento a 10 m, COSMO-2



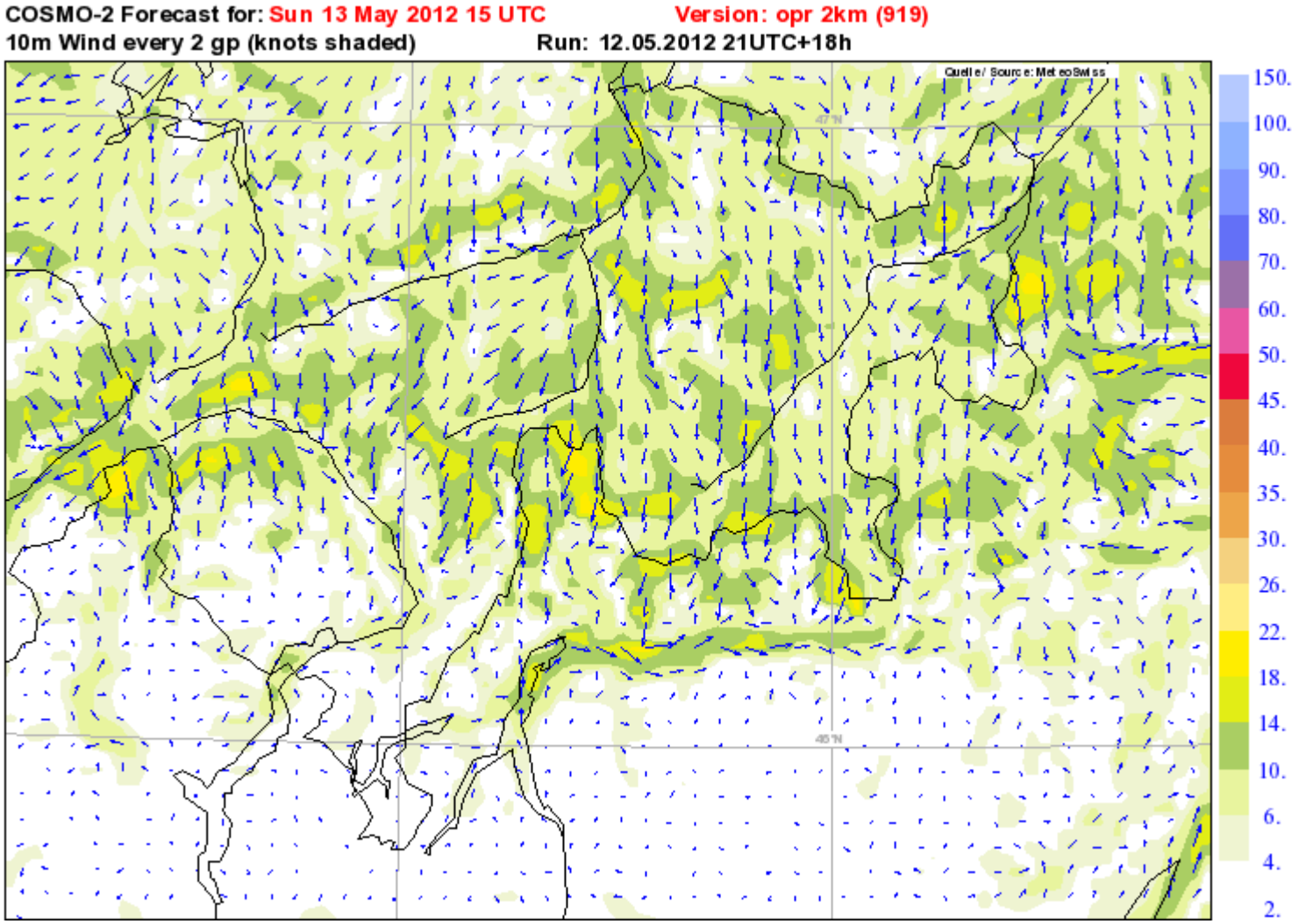
Vento a 10 m, COSMO-2



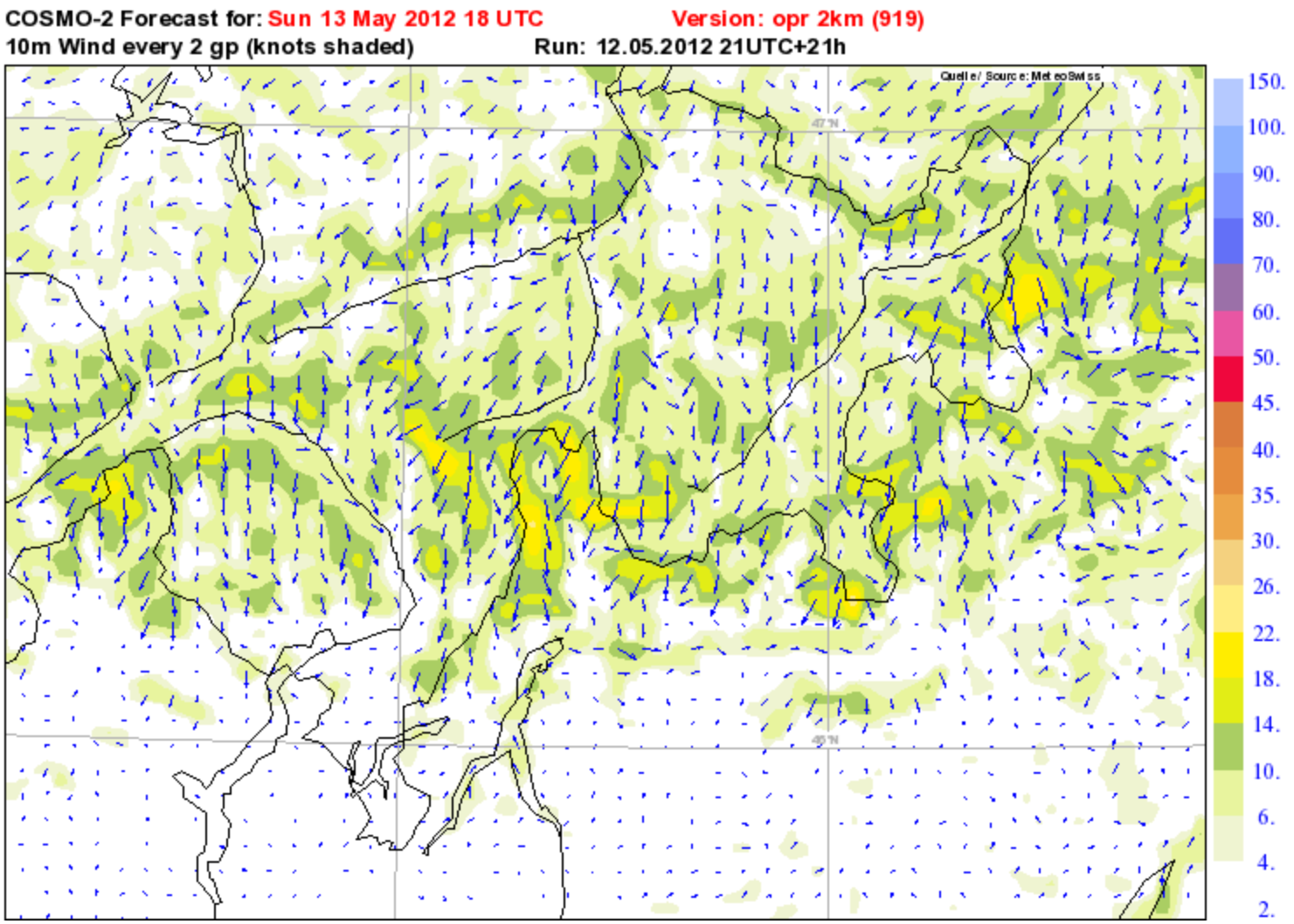
Vento a 10 m, COSMO-2



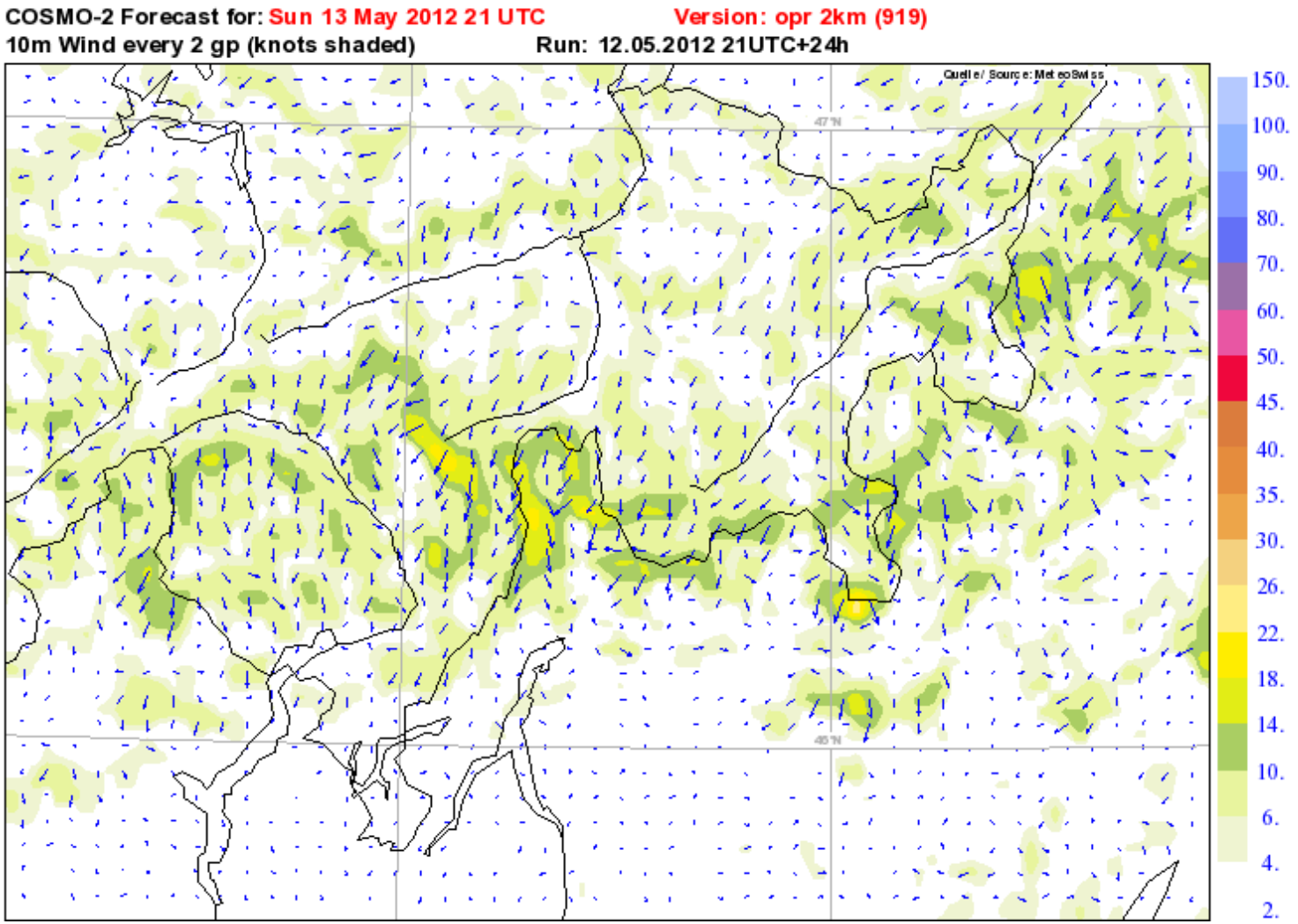
Vento a 10 m, COSMO-2



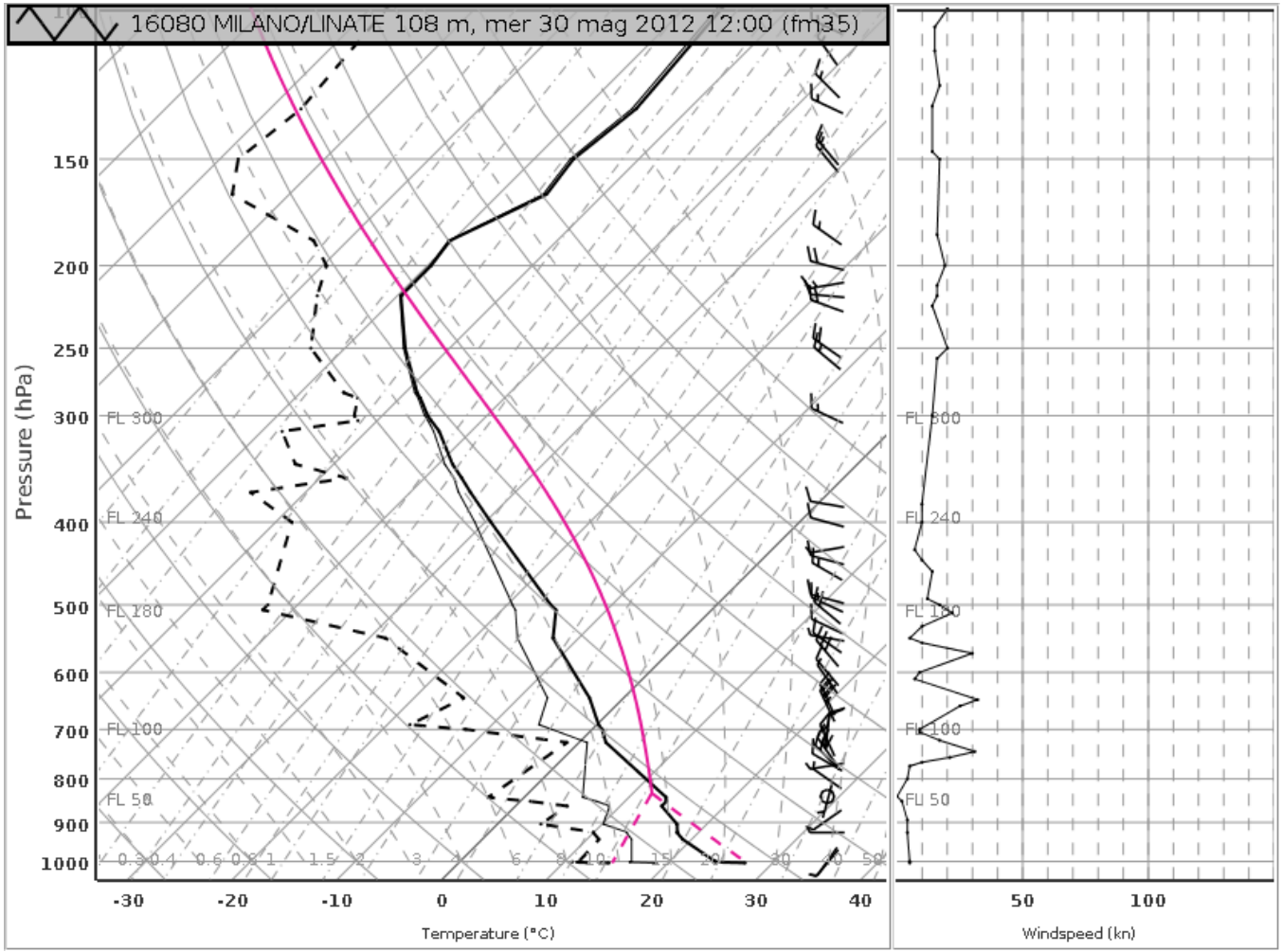
Vento a 10 m, COSMO-2



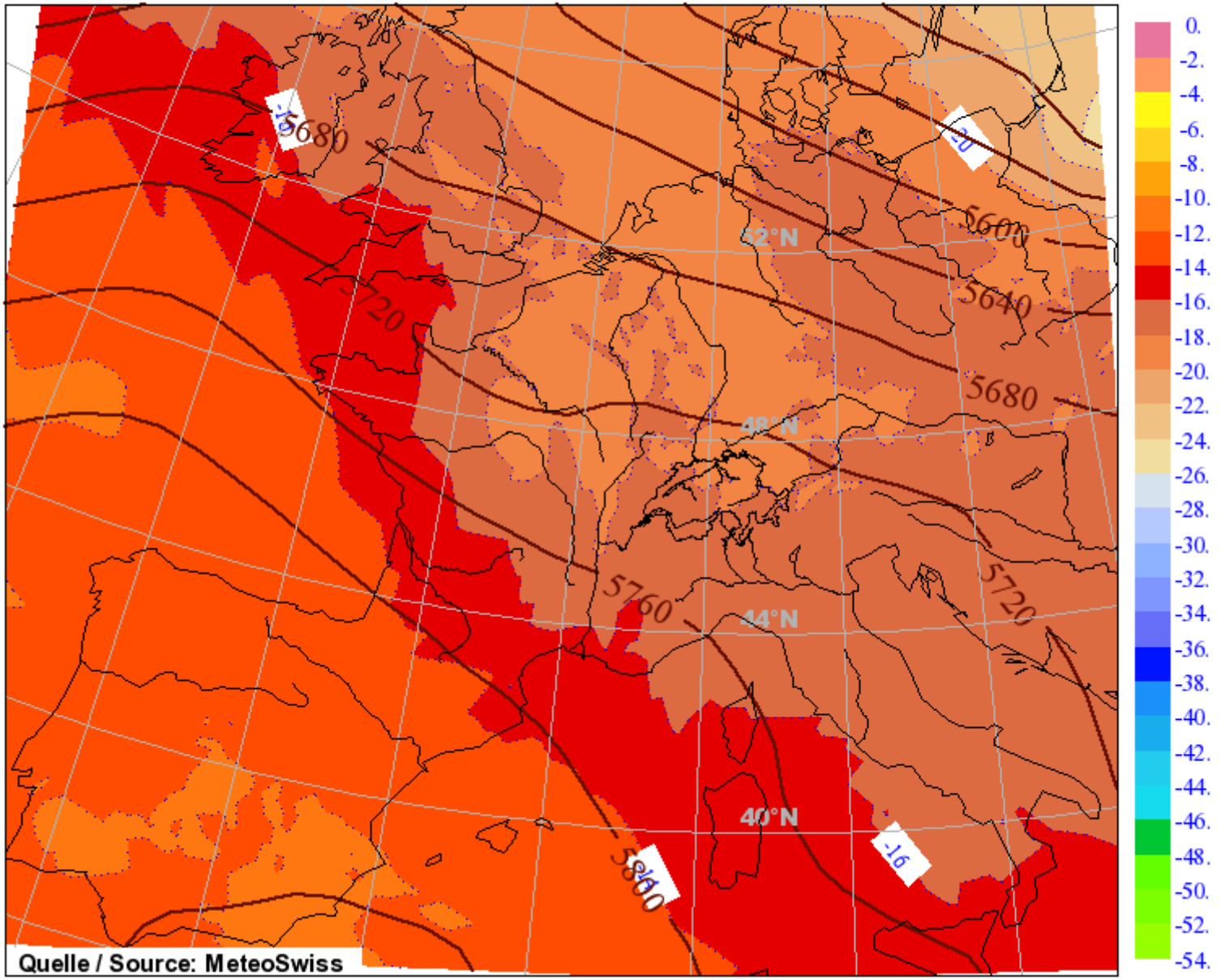
Vento a 10 m, COSMO-2



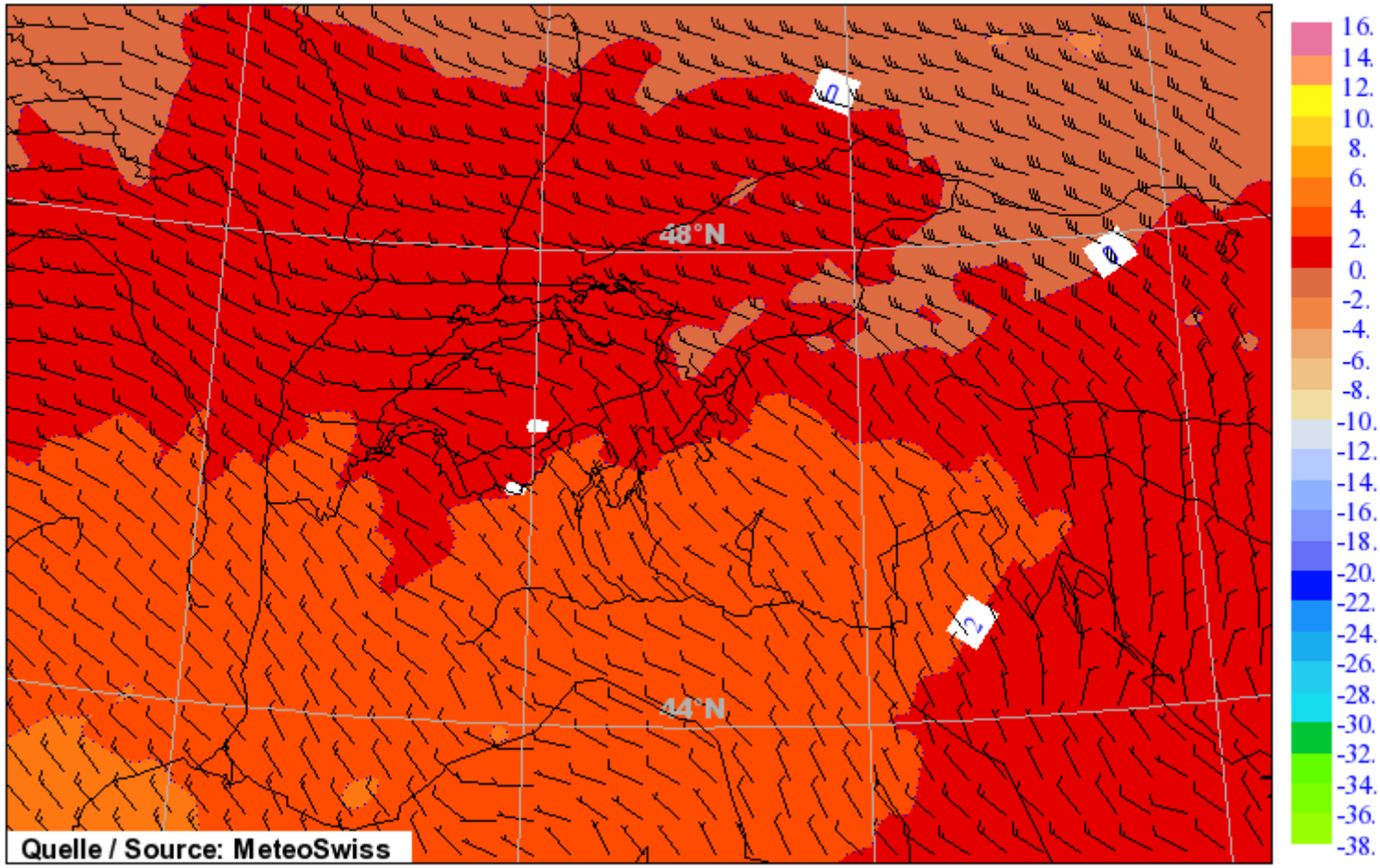
30 maggio 2012



COSMO-7 Forecast for: Wed 30 May 2012 18 UTC Version: opr 7km (919)
500hPa Geopotential Height Units: m
Temperature shaded Units: °C Run: 30.05.2012 00UTC+18h

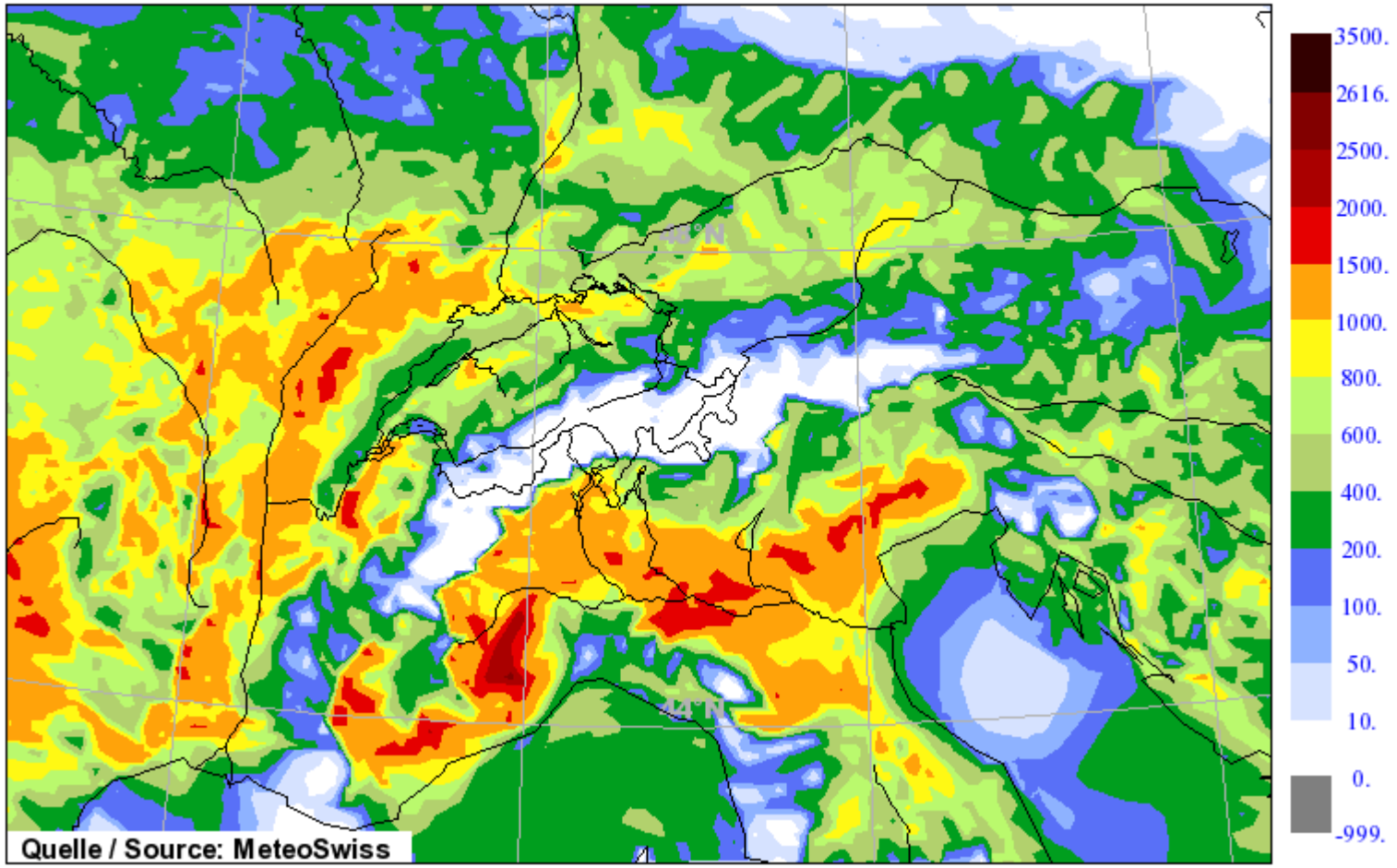


COSMO-7 Forecast for: Wed 30 May 2012 18 UTC Version: opr 7km (919)
Temperature in °C at 3km height and wind every 5 grid points Run: 30.05.2012 00UTC+18h



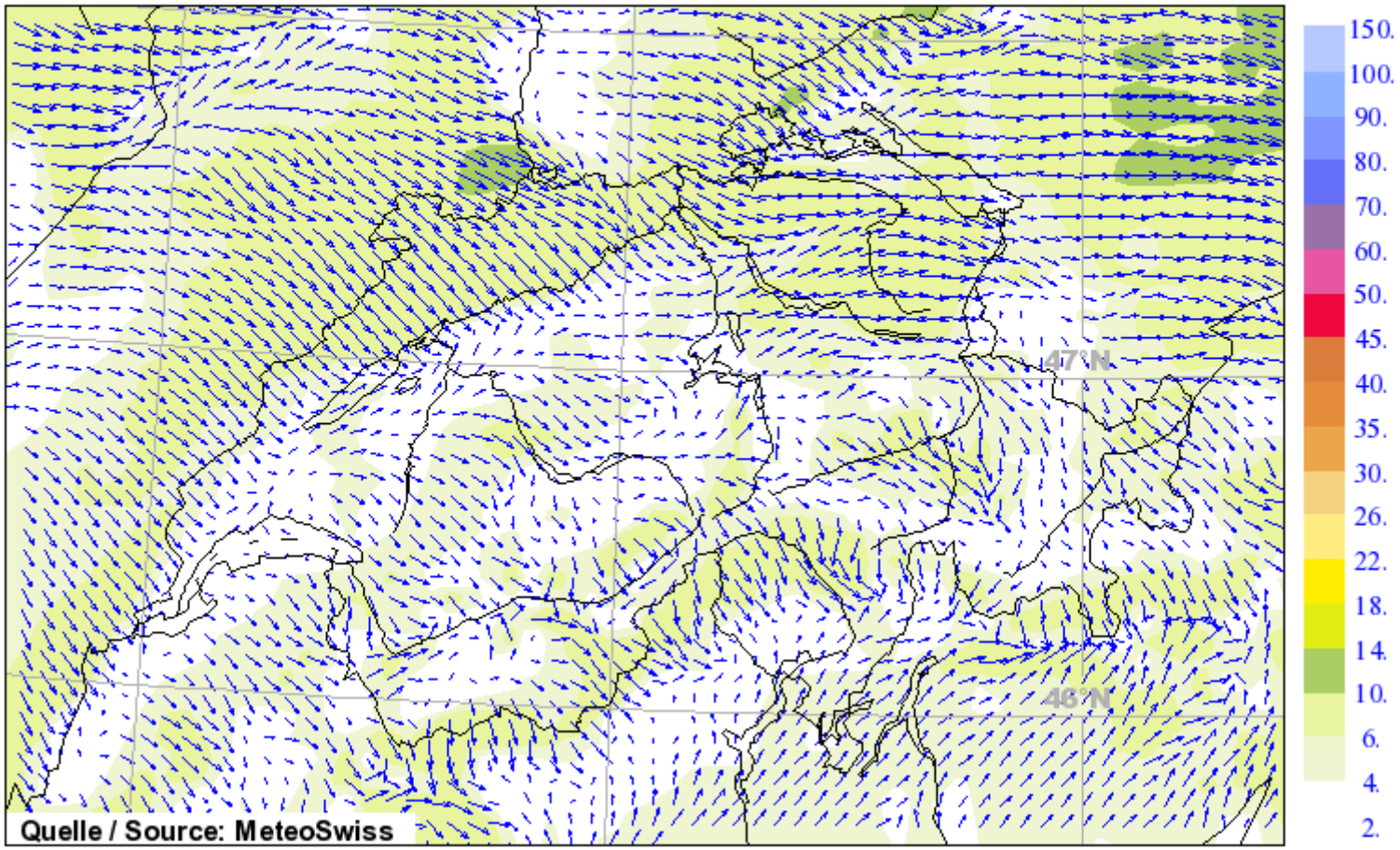
Quelle / Source: MeteoSwiss

COSMO-7 Forecast for: Wed 30 May 2012 18 UTC Version: opr 7km (919)
Most Unstable Parcel Conv. Avail. Potential Energy (CAPE) in [J/kg] Run: 30.05.2012 00UTC+18h



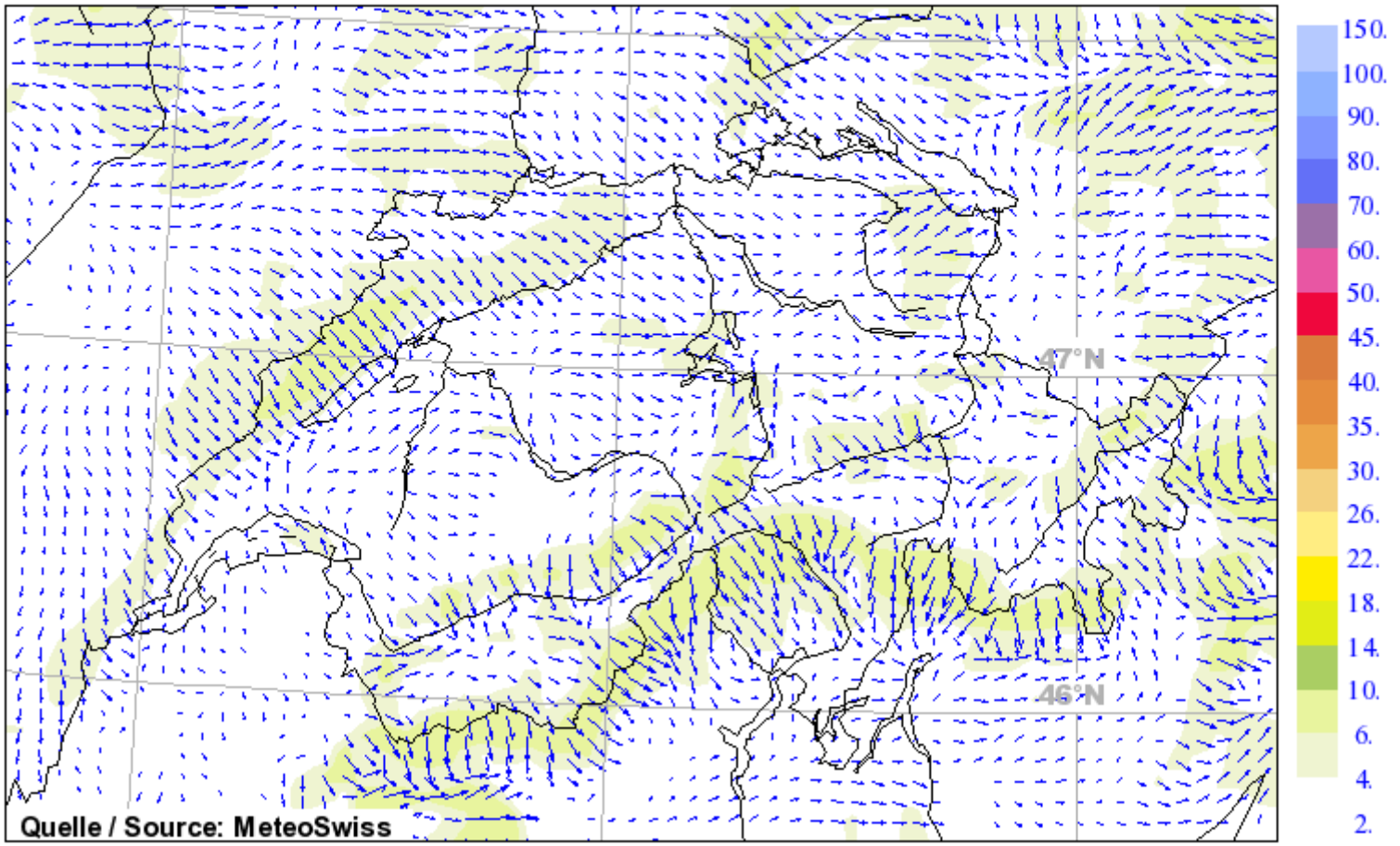
COSMO-7 Forecast for: Wed 30 May 2012 15 UTC Version: opr 7km (919)

10m Wind every 7km grid point and speed in knots shaded Run: 30.05.2012 00UTC+15h

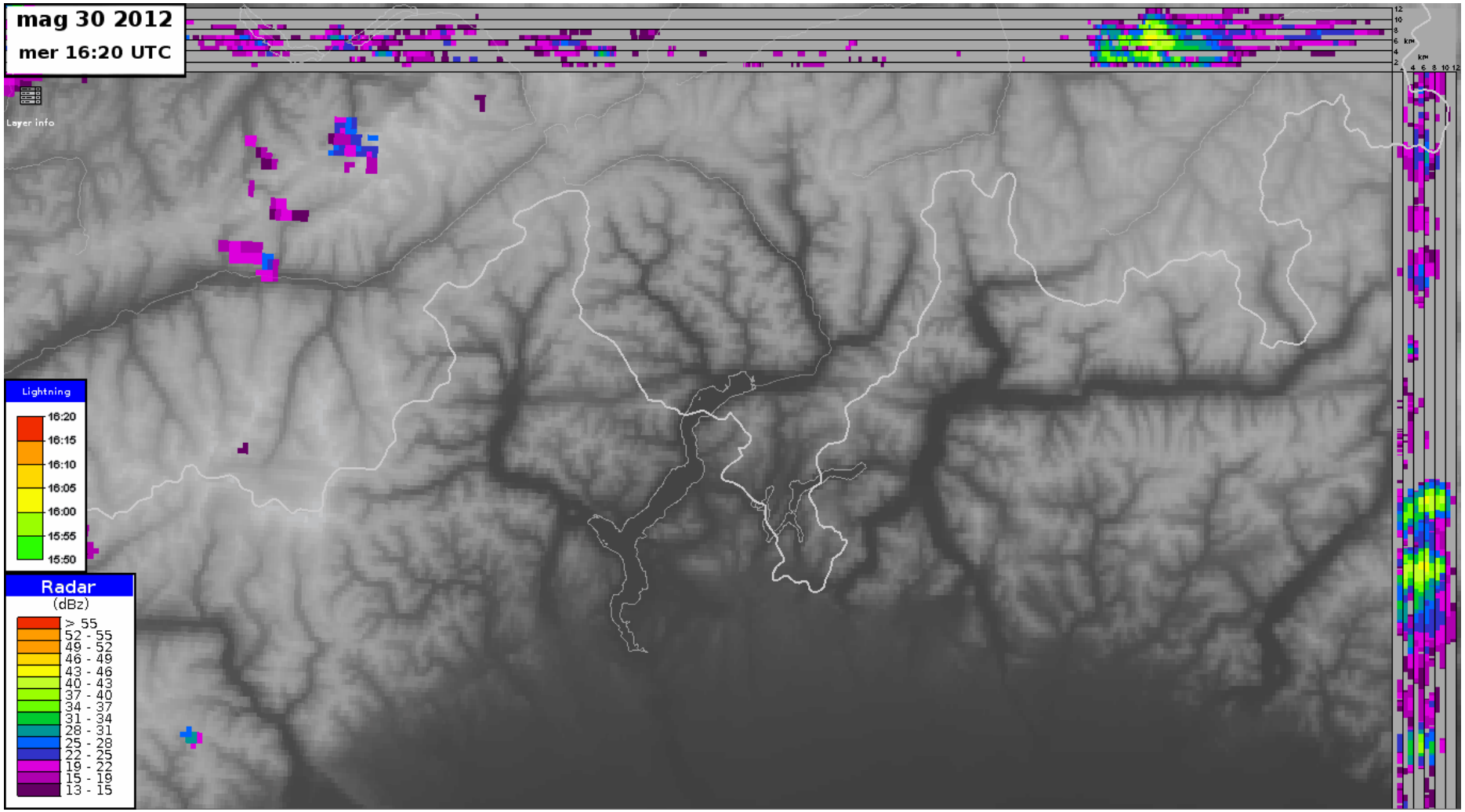


COSMO-7 Forecast for: Wed 30 May 2012 18 UTC Version: opr 7km (919)

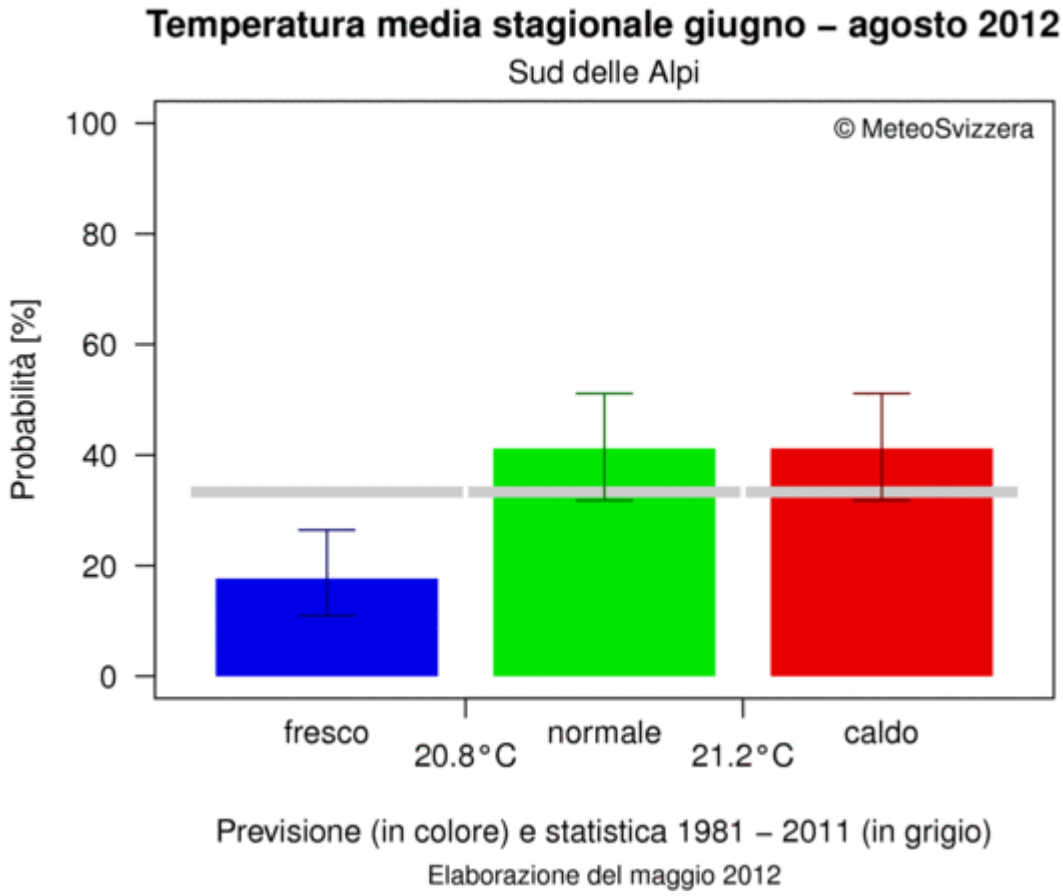
10m Wind every 7km grid point and speed in knots shaded Run: 30.05.2012 00UTC+18h



30 maggio 2012



Estate 2012


Temperatura media stagionale giugno – agosto 2012
Sud delle Alpi
© MeteoSvizzera
Probabilità [%]
100
80
60
40
20
0
fresco
20.8°C
normale
21.2°C
caldo
Previsione (in colore) e statistica 1981 – 2011 (in grigio)
Elaborazione del maggio 2012