



Schweizerische Eidgenossenschaft  
Confédération suisse  
Confederazione Svizzera  
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Dipartimento federale dell'interno DFI  
**Ufficio federale di meteorologia e climatologia MeteoSvizzera**

# Inverno 2011-2012

Retrospektiva meteoclimatica  
Matteo Buzzi



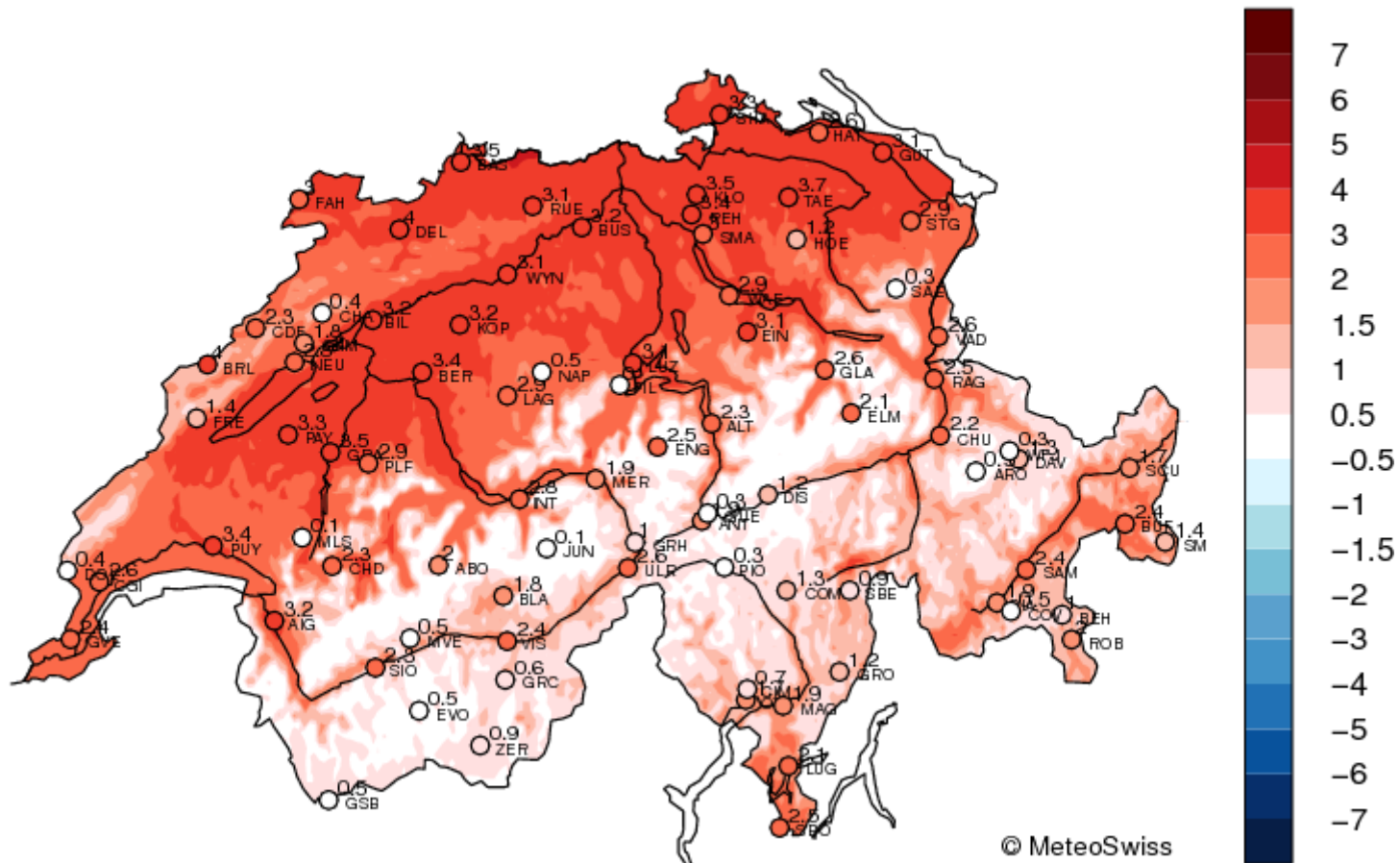
# Panoramica

- Andamento rispetto ai valori normali 1961-1990
  - Temperatura
  - Precipitazioni
  - Soleggiamento
- Situazioni meteorologiche preponderanti
  - Distribuzione nell 'autunno 2010
- Alcuni casi interessanti



# Temperatura: dicembre 2011

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



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# Evoluzione per stazione

Abweichung vom Temperaturmittel (degC)

Dezember 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	4.5	6.0	4.7	7.5	4.2	5.0	5.0	3.2	3.9	0.9	4.1	2.7	4.5	5.4	4.5	6.3	5.1	4.3	0.0	4.6	5.6	6.7	5.7	5.1	6.3	5.4	6.8	6.4	5.9	6.6	4.3	3.2	3.2	NA	6.1	3.8	0.7	2.0	5.3	5.1	0.8	1.4	3.1	-0.9	1.3	1.4	0.9	1.1	1
2	4.2	7.5	4.5	6.6	6.9	7.5	4.6	4.2	3.5	4.0	4.2	5.1	5.1	7.3	6.6	7.5	8.6	10.8	10.6	5.2	5.3	6.9	3.9	4.5	4.0	5.1	4.8	5.4	4.0	5.2	6.2	4.1	6.4	NA	7.9	7.1	7.5	4.7	5.7	3.9	2.7	3.3	2.0	1.5	2.5	2.6	3.4	4.7	2
3	4.7	3.7	4.5	3.2	4.4	5.1	4.1	5.0	4.9	4.6	4.6	5.2	5.1	5.3	4.5	4.4	5.7	5.1	4.9	4.3	3.4	2.9	-0.3	0.0	-0.2	0.9	0.6	1.6	2.8	2.1	4.5	6.9	8.8	NA	3.8	6.0	5.8	6.3	2.2	3.2	4.0	3.6	2.2	3.0	2.9	3.0	3.6	5.4	3
4	8.1	7.8	9.2	6.9	6.4	6.3	6.7	7.6	7.5	6.9	7.8	8.4	8.3	8.5	7.7	8.3	6.8	7.4	5.9	8.2	7.2	6.9	3.4	3.0	2.8	4.6	2.9	3.7	4.3	3.4	5.8	7.2	8.2	NA	6.8	6.4	5.5	6.3	4.6	4.4	4.6	2.7	2.7	2.1	2.6	2.8	3.1	4.5	4
5	4.1	2.5	3.6	2.0	4.7	5.1	4.0	4.6	4.6	4.8	4.3	3.8	4.3	4.1	3.6	2.3	4.2	4.1	4.9	3.9	1.7	2.2	-1.3	-0.8	-2.1	-0.4	-2.5	-1.7	-1.8	-2.6	-3.0	5.4	6.8	NA	2.1	5.7	6.2	5.6	1.5	2.3	4.8	2.4	1.2	2.4	4.3	4.8	5.4	8.4	5
6	2.4	1.5	2.9	1.6	2.5	3.6	2.4	3.7	3.1	4.3	2.9	2.5	3.0	2.7	2.2	0.8	0.2	1.1	1.7	2.2	0.3	1.2	-1.9	-1.7	-3.3	-1.4	-3.7	-3.0	-4.0	-5.1	-0.5	1.5	2.2	NA	-1.5	2.9	4.2	3.6	-1.3	-0.7	1.2	-0.9	-1.4	0.0	1.3	2.2	2.6	2.6	6
7	4.6	3.7	5.3	3.9	4.6	5.3	3.8	5.7	5.0	6.9	4.8	4.6	5.0	5.0	4.3	3.4	0.4	2.4	4.0	4.7	2.8	3.1	0.5	0.5	-0.4	0.8	-0.4	-0.5	-0.7	-1.0	2.3	3.0	5.9	NA	0.3	5.9	6.2	5.5	0.8	1.7	2.0	1.0	0.9	0.4	2.1	3.2	1.7	2.1	7
8	4.2	3.2	4.7	3.9	3.5	4.8	4.9	4.9	4.0	4.1	4.2	4.0	4.6	4.7	3.9	3.2	3.6	5.2	4.2	2.1	2.1	2.9	-0.4	0.2	0.2	0.5	0.1	-0.3	-0.4	-0.1	1.2	1.9	4.3	NA	0.6	3.8	5.5	5.7	1.3	1.5	5.0	1.6	3.5	1.5	4.7	6.7	6.2	5.8	8
9	7.5	7.6	9.0	7.0	4.3	5.2	6.6	7.4	7.3	5.3	7.5	8.4	7.8	8.6	8.0	7.7	3.1	5.2	2.6	4.1	5.5	6.1	2.9	2.4	2.0	3.7	2.0	2.2	3.5	3.6	1.4	1.2	4.2	NA	2.8	-0.7	1.9	2.0	1.4	1.7	1.7	0.5	1.8	-0.3	1.5	1.9	2.2	2.7	9
10	5.6	4.5	4.0	3.3	5.7	6.3	7.7	9.4	7.9	6.6	6.8	4.8	6.7	6.6	6.6	5.4	5.1	5.6	5.2	6.6	6.3	6.5	3.3	2.9	2.1	4.2	1.9	2.7	3.7	1.9	3.8	3.7	2.7	NA	3.7	0.1	1.9	2.3	2.9	1.4	1.8	0.7	1.9	-1.1	2.4	3.3	2.8	3.5	10
11	3.8	3.6	3.1	3.1	2.6	4.8	4.6	5.1	4.5	4.9	4.4	3.4	4.6	3.9	3.6	2.4	3.3	3.2	2.7	4.2	2.5	5.4	2.6	2.4	0.9	3.3	1.0	1.9	1.9	2.8	2.0	2.8	3.3	NA	4.3	0.2	-0.2	1.8	1.9	0.9	1.6	0.8	0.5	-1.2	1.8	1.4	1.7	1.7	11
12	4.1	3.4	3.9	3.6	3.0	4.3	3.2	3.1	2.8	3.2	3.6	2.9	3.8	3.2	3.1	3.3	5.0	1.3	4.0	2.7	1.6	2.6	-0.3	-0.6	-1.3	0.5	-1.1	-0.6	-0.6	-1.8	1.3	2.7	4.5	NA	4.0	4.9	3.3	2.7	0.0	0.6	2.8	2.0	-0.3	1.5	2.0	1.4	2.6	4.9	12
13	3.4	5.0	4.4	5.2	1.9	2.5	3.3	2.4	2.9	2.0	3.1	2.7	3.7	3.8	3.4	4.4	4.2	5.6	2.9	2.4	4.8	3.6	0.7	1.3	1.9	1.5	2.4	2.1	2.5	3.4	0.3	-0.4	-0.5	NA	2.2	1.9	2.4	1.1	-0.3	0.4	-0.7	-1.3	0.1	-0.6	0.4	1.6	1.7	1.5	13
14	5.1	6.1	6.8	5.1	6.0	6.4	5.7	6.0	5.8	6.0	5.8	6.0	6.2	7.0	5.7	6.5	6.9	7.0	5.9	5.9	5.2	4.5	1.2	1.5	0.8	2.2	0.9	1.3	2.4	0.6	4.4	2.7	6.6	NA	5.2	6.5	4.6	4.0	1.9	2.9	0.8	0.0	-1.0	-0.1	-0.1	0.2	1.5	3.2	14
15	3.7	3.9	4.8	3.3	4.3	4.4	4.0	4.8	4.1	3.9	3.7	4.4	4.1	4.9	3.9	3.4	3.3	3.8	2.4	3.0	1.9	2.4	-0.8	-0.7	-2.3	-0.4	-2.2	-1.5	-1.6	-3.3	1.0	2.1	4.2	NA	1.3	3.8	2.6	2.8	-0.3	0.3	1.0	-0.4	-0.7	0.2	1.0	0.9	1.5	3.1	15
16	5.3	4.2	6.2	4.8	5.3	5.5	4.3	5.7	5.8	6.6	5.5	4.5	5.4	5.8	4.6	5.7	3.7	7.2	6.3	5.1	3.3	3.7	0.0	0.3	-0.5	1.3	0.4	1.3	-0.5	0.7	2.8	3.1	6.0	NA	1.2	4.9	2.9	1.9	-0.2	0.9	0.9	0.3	-2.0	0.5	-0.4	0.1	1.2	2.6	16
17	1.4	-0.1	1.1	-0.5	0.7	1.7	0.3	1.4	1.2	1.9	1.2	1.0	1.5	1.5	0.6	-0.1	0.8	0.7	1.7	-0.6	-2.8	-0.6	-3.9	-4.4	-5.2	-3.6	-6.0	-5.9	-6.1	-8.3	-1.5	-0.2	0.6	NA	-2.7	2.4	2.3	2.0	-3.7	-3.0	0.9	-2.8	-4.7	-1.9	-1.3	0.7	2.3	4.2	17
18	0.8	-1.2	-0.3	-1.5	-0.8	0.0	-0.8	0.4	0.4	0.7	0.5	0.0	0.7	0.6	-0.3	-0.8	-1.1	-0.9	0.1	-1.1	-3.3	-1.6	-5.4	-5.6	-6.2	-4.7	-6.9	-6.9	-7.6	-9.3	-4.1	-3.5	-5.5	NA	-4.0	1.2	1.2	1.1	-4.4	-4.6	-3.5	-4.6	-4.5	-3.9	-2.8	-0.9	0.3	0.1	18
19	-1.0	-2.9	-1.5	-3.0	-2.9	-1.4	-2.0	-2.2	-2.3	-2.0	-1.4	-1.9	-1.3	-2.3	-2.0	-2.9	-2.2	-2.8	-2.0	-3.9	-6.1	-4.5	-7.2	-7.2	-7.8	-6.6	-8.8	-9.2	-9.4	-11.0	-4.9	-5.9	-6.7	NA	-5.0	-2.3	-1.1	-2.3	-7.1	-7.4	-2.0	-5.4	-6.0	-4.5	-3.1	-1.1	0.1	1.1	19
20	-0.3	-0.3	-0.5	-0.3	-1.8	-1.2	-0.6	-0.9	-0.7	-1.2	-0.6	-1.2	-0.3	-0.7	-1.4	-0.9	-3.6	-2.9	-1.1	-1.1	-0.8	-0.1	-3.1	-2.7	-3.9	-3.3	-4.1	-4.5	-4.2	-4.6	-4.6	-5.2	-4.6	NA	-6.0	-1.6	-2.4	-2.2	-4.5	-4.3	-5.0	-4.1	-4.8	-4.2	-4.0	-2.3	-1.6	-2.3	20
21	1.8	0.5	1.4	0.7	0.2	0.9	0.8	1.6	1.1	1.3	1.2	1.5	1.7	2.0	0.8	0.7	-0.5	-0.3	1.4	0.7	-0.3	0.8	-2.1	-1.7	-2.7	-2.1	-3.7	-3.8	-3.9	-3.4	-0.5	0.4	2.8	NA	-1.9	3.5	2.9	1.4	-1.3	-0.6	4.5	-0.2	-1.2	1.5	1.7	2.7	3.2	2.9	21
22	3.4	4.8	5.0	4.7	2.6	3.1	3.7	3.7	3.6	2.8	3.4	3.5	3.6	4.7	3.3	3.5	0.3	0.7	0.6	3.2	2.8	3.6	2.5	3.1	2.4	1.8	1.1	1.4	1.3	2.4	3.0	2.6	6.9	NA	0.0	6.7	5.0	3.2	3.1	3.7	7.4	4.1	4.2	4.4	3.1	1.4	0.9	-0.2	22
23	6.5	5.6	6.9	5.0	3.4	4.8	4.4	5.8	5.3	5.5	5.8	6.6	6.1	6.9	4.9	5.3	2.2	2.9	2.4	3.7	4.2	3.7	3.5	4.9	6.3	2.9	6.1	5.3	5.8	3.9	4.6	4.1	3.0	NA	3.0	6.1	3.2	3.8	2.7	2.9	6.7	5.5	7.0	2.8	0.8	0.9	0.3	-0.6	23
24	3.9	2.0	3.0	1.1	2.3	3.1	2.7	3.4	3.4	3.2	3.5	3.8	3.9	3.8	3.0	2.3	2.7	2.1	3.3	1.6	-0.4	0.4	-2.5	-3.0	-3.2	-1.6	-3.7	-2.6	-1.8	-4.6	1.1	2.1	1.4	NA	0.1	4.3	4.2	3.2	-1.1	-0.2	3.1	0.7	-0.1	1.5	3.2	3.5	3.6	5.1	24
25	1.2	0.8	0.7	0.3	-1.7	0.7	0.0	0.0	-0.2	-0.1	0.6	1.8	1.1	1.8	1.1	0.7	-0.2	0.4	-0.3	-3.3	-4.1	-5.0	-1.9	-1.7	-3.4	-3.0	-2.8	-2.6	-4.0	-0.1	-3.4	-2.4	-5.1	NA	-2.6	-4.1	-1.3	-1.7	-4.6	-4.0	3.7	0.0	1.2	2.1	3.5	4.1	3.7	4.2	25
26	1.5	1.7	0.8	1.5	-1.8	1.2	0.9	0.0	-0.4	-0.2	-0.3	0.6	0.1	0.1	1.0	1.7	-0.2	0.7	-1.0	0.1	2.1	-1.3	4.1	2.4	5.0	0.0	5.3	5.7	5.0	6.6	0.2	-0.2	-2.0	NA	0.6	-3.8	-3.8	-2.0	0.9	2.8	2.3	6.9	5.0	0.5	1.5	1.6	0.9	-0.2	26
27	-0.4	1.3	-0.8	1.2	-1.4	0.8	-0.7	-0.8	-1.1	-0.8	-2.0	-0.3	-1.5																																				

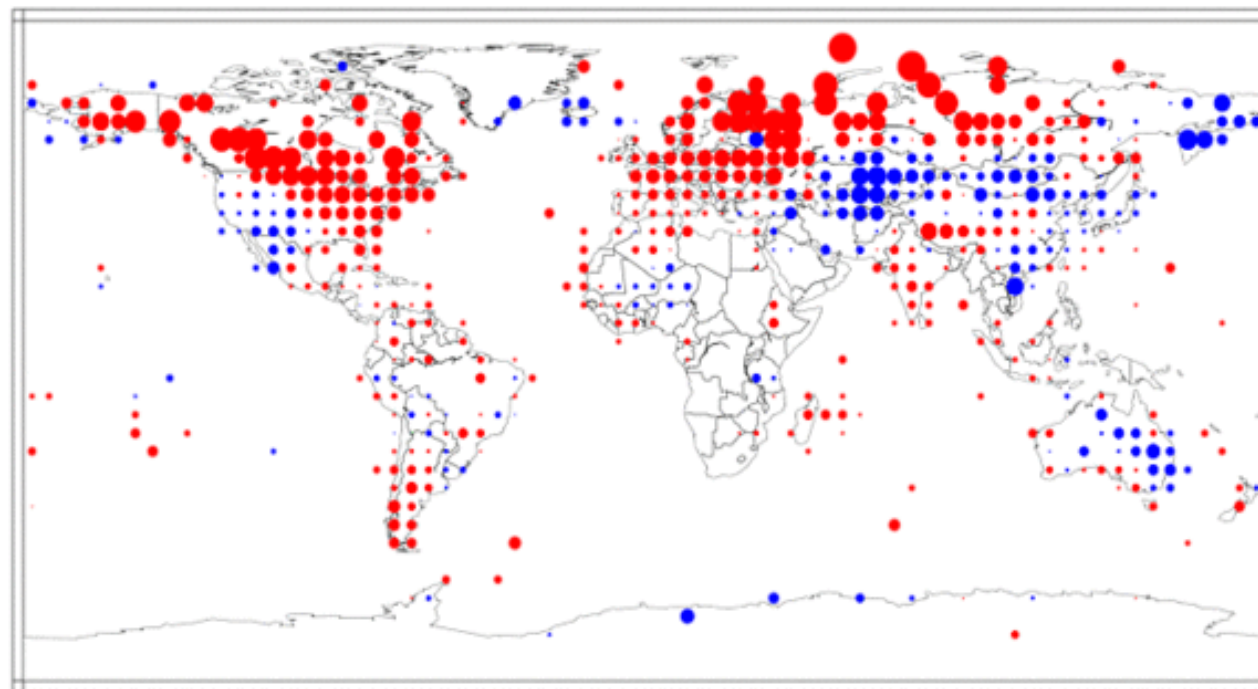


# Temperatura: anomalie globali dicembre

## Temperature Anomalies December 2011

(with respect to a 1961-1990 base period)

National Climatic Data Center/NESDIS/NOAA



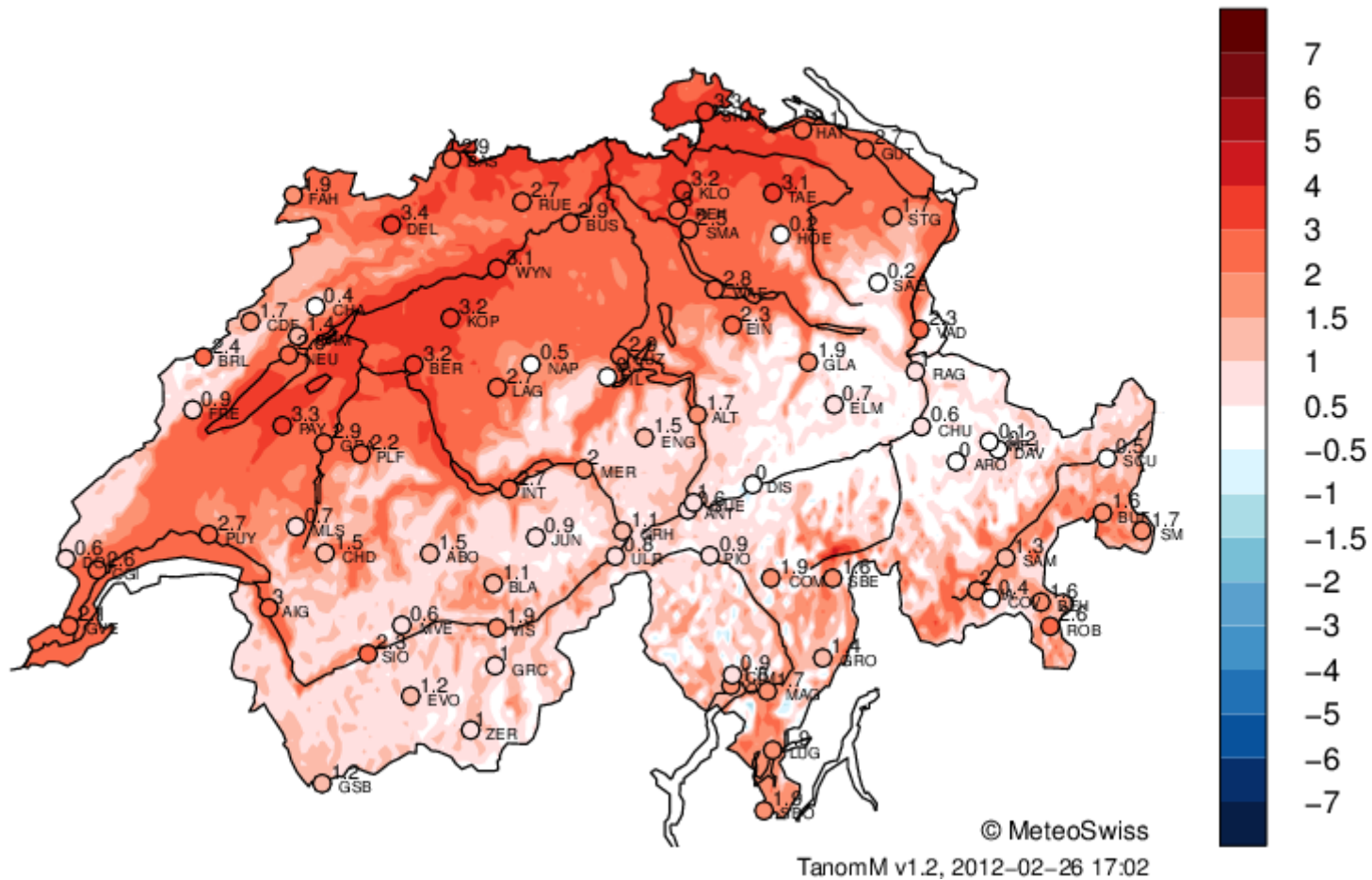
-5C -4C -3C -2C -1C 0C 1C 2C 3C 4C 5C

Degrees Celsius





**Monthly Temperature Anomaly (degC) Jan 2012 (Ref. 1961–1990)**





# Evoluzione per stazione

Abweichung vom Temperaturmittel (degC)

Januar 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	9.5	10.0	10.5	9.4	6.6	6.3	7.4	8.0	7.9	6.4	8.9	8.9	9.2	10.3	7.8	9.6	3.0	5.9	4.4	6.0	7.1	6.7	5.7	5.8	5.6	5.7	4.8	5.9	6.0	6.0	5.7	6.1	6.7	NA	4.1	7.4	3.8	3.9	5.3	4.8	2.7	6.1	6.6	3.3	1.0	0.5	1.0	1.5	1
2	6.9	7.7	6.4	6.6	6.2	6.2	6.3	6.1	5.9	5.7	6.7	6.4	7.1	8.2	6.4	7.1	5.4	6.4	5.7	5.4	5.6	5.4	2.8	2.5	2.9	3.6	2.4	3.4	3.4	2.2	5.1	5.5	7.9	NA	5.7	7.3	4.7	4.1	3.8	4.0	2.5	3.5	1.1	2.4	0.7	0.8	1.9	3.0	2
3	5.9	5.7	6.3	5.3	2.6	3.8	4.2	5.0	5.0	3.6	5.3	5.8	5.8	6.3	5.5	5.0	3.2	4.7	3.0	2.6	3.2	3.7	0.7	0.4	0.7	0.9	1.6	1.4	2.2	1.5	0.7	2.5	0.4	NA	1.4	2.8	2.9	2.2	0.1	0.1	3.1	0.9	1.0	0.8	3.3	3.4	2.3	2.8	3
4	6.2	4.7	6.0	4.1	4.5	5.0	4.8	5.6	5.9	4.5	5.7	5.4	5.9	5.8	5.3	4.0	2.9	4.8	3.5	4.7	3.4	3.0	-0.6	-0.5	-0.5	0.5	-1.0	-0.1	-0.1	-1.3	1.3	0.7	2.1	NA	2.0	2.7	4.0	3.5	1.8	1.4	2.6	0.0	0.2	1.0	2.6	2.7	2.8	3.4	4
5	4.9	4.5	6.0	3.7	4.0	3.4	3.4	5.6	4.7	6.4	4.3	4.7	4.9	5.2	4.3	3.1	1.4	3.6	4.3	6.0	3.3	3.5	0.3	-0.1	-0.5	0.4	0.4	-0.1	0.1	0.3	1.7	1.3	5.2	NA	1.6	4.7	4.8	4.0	1.3	2.5	2.2	0.8	0.1	1.9	1.5	2.2	2.5	3.6	5
6	3.2	1.6	2.8	0.9	1.2	1.7	2.4	3.2	3.7	3.3	3.0	2.5	3.1	2.9	1.9	0.8	2.3	3.4	3.0	1.2	-2.0	0.6	-2.8	-3.3	-4.5	-2.8	-2.6	-4.2	-4.8	-5.9	-0.2	1.6	3.2	NA	-0.9	3.8	4.0	3.5	-2.4	-0.6	2.6	-1.1	-4.0	1.2	2.3	2.5	3.9	6.4	6
7	3.7	3.1	4.1	2.5	-0.2	1.4	1.8	3.0	2.5	2.6	2.7	3.2	3.3	3.5	2.7	2.1	0.7	2.1	1.8	1.4	0.5	1.8	-0.8	-0.9	-2.4	-1.3	-1.6	-2.1	-1.2	-0.3	-0.3	0.0	2.3	NA	-1.8	1.5	2.1	0.8	-0.4	-1.6	5.3	1.6	1.0	3.3	4.3	4.0	3.3	3.1	7
8	4.6	3.6	4.5	3.1	3.5	4.0	3.6	5.0	4.7	5.4	4.6	3.9	4.7	4.6	3.9	2.3	2.6	4.1	5.2	3.2	1.7	2.6	-0.7	-0.1	-0.6	-0.2	-0.5	-2.0	-1.9	0.2	1.8	3.0	5.4	NA	0.4	6.7	6.3	5.5	1.4	2.4	5.0	1.7	-0.2	3.1	3.7	5.4	7.7	10.8	8
9	4.7	3.6	4.3	2.8	2.1	4.0	3.6	4.4	4.0	4.0	4.1	4.1	4.6	4.6	3.9	2.6	2.1	2.9	3.7	2.0	-0.3	2.3	-0.8	-0.2	-1.7	-0.6	-1.5	-1.9	-2.1	1.6	0.8	2.3	3.9	NA	0.0	2.3	3.4	0.8	-1.4	-3.1	7.0	1.4	1.6	4.2	6.1	5.3	6.0	7.2	9
10	5.5	4.9	4.6	3.8	2.1	5.0	5.1	5.4	4.6	4.1	4.3	4.5	4.5	4.7	4.2	3.4	1.8	3.6	2.6	2.1	1.3	3.4	2.2	2.0	0.4	1.6	3.1	1.3	0.6	4.6	1.7	2.1	3.0	NA	0.0	-0.1	1.3	0.4	-0.9	-1.4	7.9	3.7	4.9	5.7	8.2	7.3	7.1	6.9	10
11	3.0	2.4	1.7	0.9	1.8	2.6	2.3	2.1	3.6	2.1	3.4	2.0	3.1	1.6	1.3	-0.7	0.2	2.4	0.5	0.0	3.5	0.2	6.0	6.0	6.0	4.6	5.6	5.1	5.1	7.0	0.8	0.4	-1.4	NA	1.0	-4.9	-1.9	0.4	2.3	3.2	3.2	7.9	6.3	-0.7	3.3	3.8	2.6	1.9	11
12	2.2	1.2	0.9	-1.9	0.8	1.7	1.1	1.7	2.5	1.0	2.0	0.7	2.1	1.6	0.8	-0.3	0.2	0.0	-0.1	1.6	5.2	-0.4	4.7	6.3	5.9	5.3	4.5	3.7	5.8	4.0	-0.2	0.2	-2.9	NA	1.5	-5.7	-3.0	0.1	3.2	2.7	2.5	5.5	6.8	-2.0	2.0	2.0	1.1	0.7	12
13	3.2	1.6	1.7	0.1	-0.2	1.4	1.6	2.4	2.1	2.0	2.0	2.6	2.5	3.0	2.1	1.4	0.0	0.9	1.1	1.5	0.9	0.9	-1.2	0.0	-0.4	-0.3	-2.1	-2.6	-2.2	2.6	0.1	1.5	4.6	NA	-0.8	-2.6	-0.5	-0.2	0.4	0.2	8.0	4.1	3.7	5.1	7.9	4.9	3.9	3.0	13
14	0.1	-0.6	-1.6	-1.2	1.4	0.4	0.6	0.1	-0.2	-0.4	-1.5	0.0	-1.2	-1.1	-0.7	-1.1	-2.5	-1.2	-2.3	-5.2	-3.4	-1.4	-2.4	-2.1	-0.2	-4.2	-2.2	-4.4	-5.7	1.0	-7.3	-6.1	-8.5	NA	-4.2	-7.4	-1.5	0.2	-3.5	-3.2	3.8	-2.1	0.0	1.6	2.3	2.1	1.5	-0.5	14
15	-0.4	-1.3	-1.8	-1.7	-1.4	-1.4	0.0	-1.2	-0.4	-2.6	-0.6	-0.9	-1.3	-2.2	-1.6	-3.1	-5.7	-4.0	-4.5	-6.2	-2.4	-0.5	-3.3	-2.8	0.6	-2.6	-0.6	-1.2	-1.7	4.0	-7.3	-8.6	-10.3	NA	-5.2	-9.8	-5.6	-2.9	-3.0	-1.1	-2.4	0.9	-1.8	-6.7	-1.8	-0.7	-0.5	-2.0	15
16	-0.6	-1.8	-3.1	-3.0	-3.5	-2.0	-1.7	-2.9	-2.2	-3.1	-1.8	-1.7	-1.6	-2.7	-2.6	-4.6	-5.8	-5.1	-4.6	-6.7	-3.1	-0.5	-3.0	-0.4	0.1	-2.3	0.0	0.5	-0.1	3.2	-5.3	-7.7	-8.9	NA	-4.0	-9.6	-6.5	-3.7	-3.2	-1.3	-3.4	-4.1	-4.1	-7.7	-2.6	-1.8	-1.3	-3.1	16
17	-2.0	-1.3	-2.0	-2.1	-4.0	-1.0	-2.5	-2.5	-3.5	-2.6	-3.1	-3.1	-2.9	-3.2	-2.0	-2.2	-1.3	-2.7	-3.9	-2.5	-0.1	-3.0	2.8	1.7	2.2	1.1	2.6	1.3	0.1	1.4	-3.0	-4.1	-5.7	NA	-2.0	-8.3	-5.5	-2.6	-1.6	-0.8	2.7	3.8	3.3	-1.4	-1.8	-2.4	-1.8	-2.9	17
18	-0.7	0.6	-1.2	-1.0	-2.3	-0.1	-0.7	-0.8	-1.7	-1.3	-2.1	-1.9	-1.6	-0.4	-0.1	1.5	-1.1	2.8	-2.8	1.5	3.5	-0.7	4.6	4.6	4.4	4.7	3.7	2.4	1.4	1.0	-1.3	-1.6	-4.1	NA	0.5	-6.6	-4.1	-1.6	1.4	1.6	2.1	3.7	5.2	0.9	0.3	-1.1	-1.2	-2.1	18
19	5.9	6.5	4.6	5.6	3.5	4.5	5.2	6.2	5.9	5.9	6.1	7.0	6.6	8.1	6.7	7.6	2.1	5.8	2.4	7.5	7.9	5.3	3.7	3.3	3.7	4.5	3.5	3.9	4.6	4.5	4.1	3.5	5.6	NA	3.4	3.1	1.4	2.2	5.2	4.7	2.8	4.3	5.8	2.0	1.0	0.2	0.1	-0.4	19
20	5.5	4.7	5.2	3.7	4.9	4.9	3.9	5.4	5.3	6.6	5.2	4.5	5.4	5.1	4.5	3.2	2.1	4.9	4.7	4.6	3.1	3.2	0.8	0.8	2.0	1.1	0.1	-0.4	0.2	-1.0	2.9	4.1	6.9	NA	1.5	6.9	5.6	5.1	2.0	3.4	2.7	2.0	0.9	2.7	2.5	2.3	3.0	3.6	20
21	6.1	6.8	7.6	5.5	4.2	4.2	4.5	6.8	5.9	8.6	5.9	5.6	6.6	6.5	5.9	4.3	2.0	3.6	4.4	5.8	4.7	4.5	2.7	2.0	3.6	2.7	1.7	2.5	2.1	1.6	3.6	3.4	8.2	NA	1.2	7.2	6.5	5.8	3.3	4.8	2.6	4.1	2.9	4.0	2.4	3.0	3.5	4.3	21
22	7.5	5.8	6.5	4.5	6.6	7.1	6.8	8.3	8.3	9.2	7.8	7.0	7.6	7.5	6.9	5.8	2.7	7.8	8.2	6.3	6.0	4.5	2.2	2.6	3.3	3.4	1.9	2.5	2.6	2.1	4.6	5.2	10.4	NA	2.7	8.4	9.7	8.7	4.9	7.2	9.2	7.2	6.3	6.0	7.5	6.3	4.2	3.2	22
23	6.1	5.3	6.1	4.2	4.3	5.5	5.6	6.8	6.7	7.4	6.6	5.9	6.5	6.3	5.7	4.1	2.7	5.2	5.0	4.1	2.2	3.4	0.7	0.5	0.6	1.6	-0.9	-0.2	-0.6	-0.2	3.1	4.2	4.5	NA	2.0	6.5	5.4	4.8	1.4	1.2	7.4	3.7	4.1	5.4	6.4	6.3	4.0	2.1	23
24	3.4	2.5	3.5	1.9	3.7	3.9	3.2	3.4	4.0	2.7	3.6	2.5	3.6	3.0	2.9	0.9	1.2	2.2	2.6	1.5	0.8	2.1	-1.2	-0.3	-0.8	-0.8	-3.3	-3.7	-3.7	-3.9	0.1	1.8	4.1	NA	-0.3	4.9	5.6	5.3	0.7	1.7	3.7	0.4	-0.5	2.6	4.9	5.4	4.7	4.9	24
25	2.8	2.1	2.9	2.2	3.4	3.4	2.2	3.0	2.8	2.0	2.7	1.8	3.1	2.3	1.6	0.4	0.2	1.3	0.5	1.1	1.0	2.8	1.1	2.2	1.4	0.7	0.1	-1.6	-2.5	0.6	-0.3	-2.2	0.5	NA	-1.6	3.9	4.0	4.6	1.4	2.1	1.2	0.4	-1.5	0.9	1.9	2.3	1.9	0.5	25
26	1.5	2.5	2.5	3.1	4.2	4.2	3.1	4.0	3.4	3.3	2.3	0.7	2.2	1.7	1.9	0.0	-0.6	1.4	1.0	0.6	0.8	3.5	3.1	3.4	3.2	1.7	2.6	2.5	1.7	2.3	1.4	-2.3	-2.5	NA	0.3	-1.9	3.0	5.4	1.3	1.5	-1.0	-0.4	-0.8	-3.2	-0.5	0.3	0.4	-1.3	26
27	3.1	3.2	3.2	2.7	4.0	3.9																																											

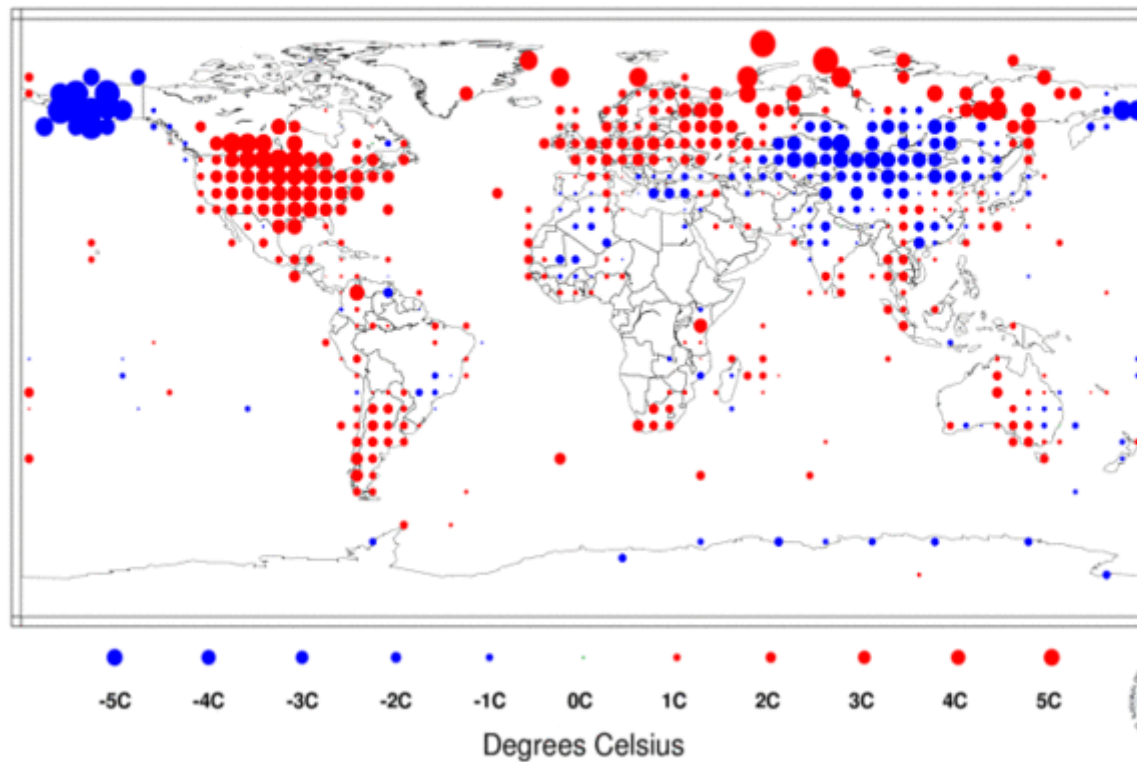


# Temperatura: anomalie globali gennaio

## Temperature Anomalies January 2012

(with respect to a 1961-1990 base period)

National Climatic Data Center/NESDIS/NOAA





2012-03-05 14:56  
TanomM v1.0  
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2012-03-05 14:56  
TanomM v1.0  
© MeteoSwiss



## **Temperatura: anomalie globali febbraio**

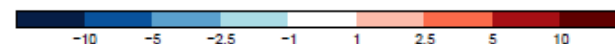
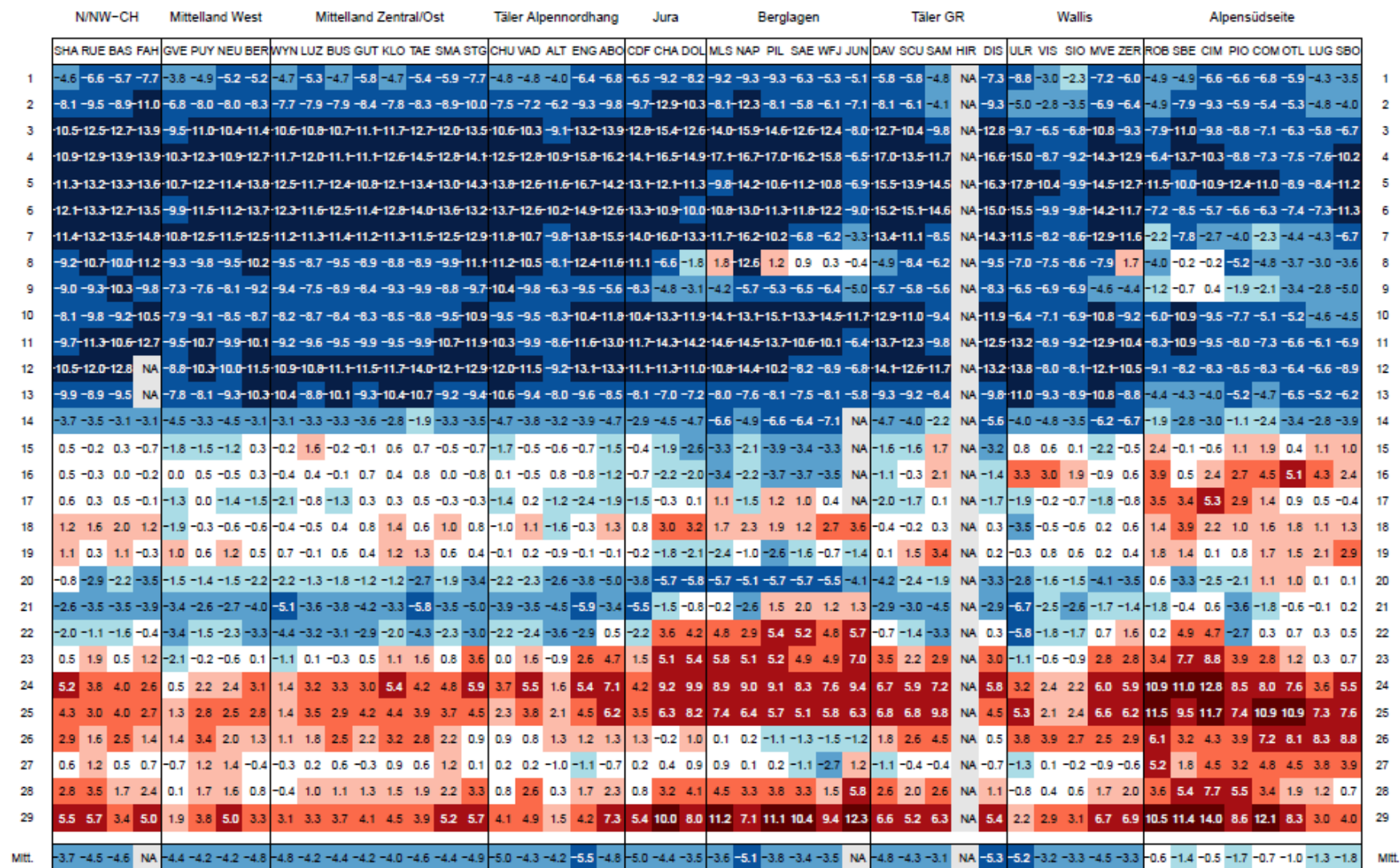


# Evoluzione per stazione

Abweichung vom Temperaturmittel (degC)

Februar 2012

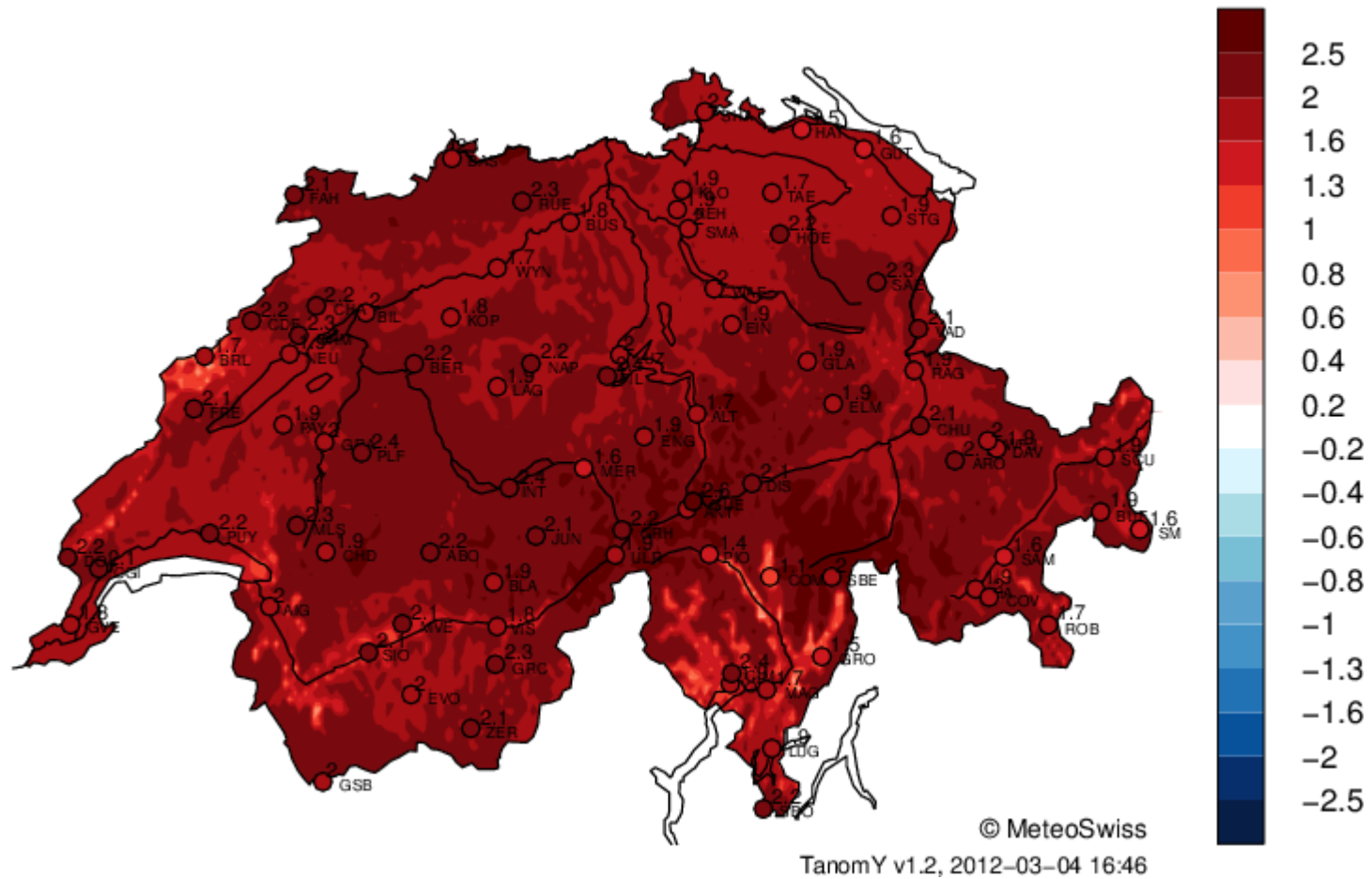
Referenzperiode: 1961 – 1990





# L'anno 2011

Yearly Temperature Anomaly (degC) 2011 (Ref. 1961–1990)



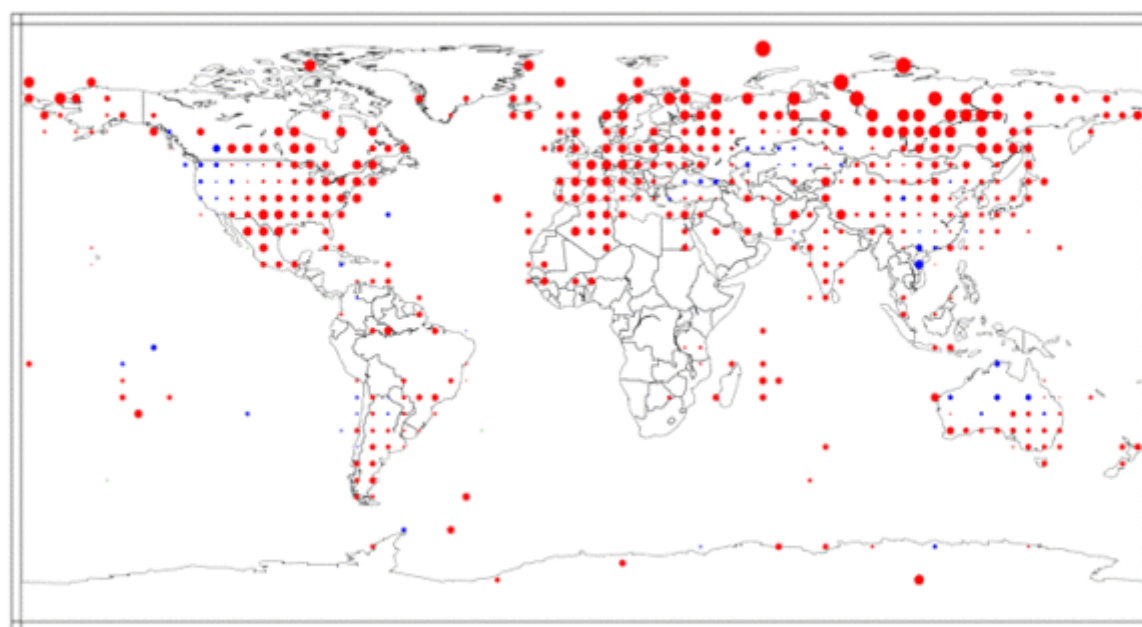


# L' anno 2011

## Temperature Anomalies Jan-Dec 2011

(with respect to a 1961-1990 base period)

National Climatic Data Center/NESDIS/NOAA



-5C -4C -3C -2C -1C 0C 1C 2C 3C 4C 5C

Degrees Celsius

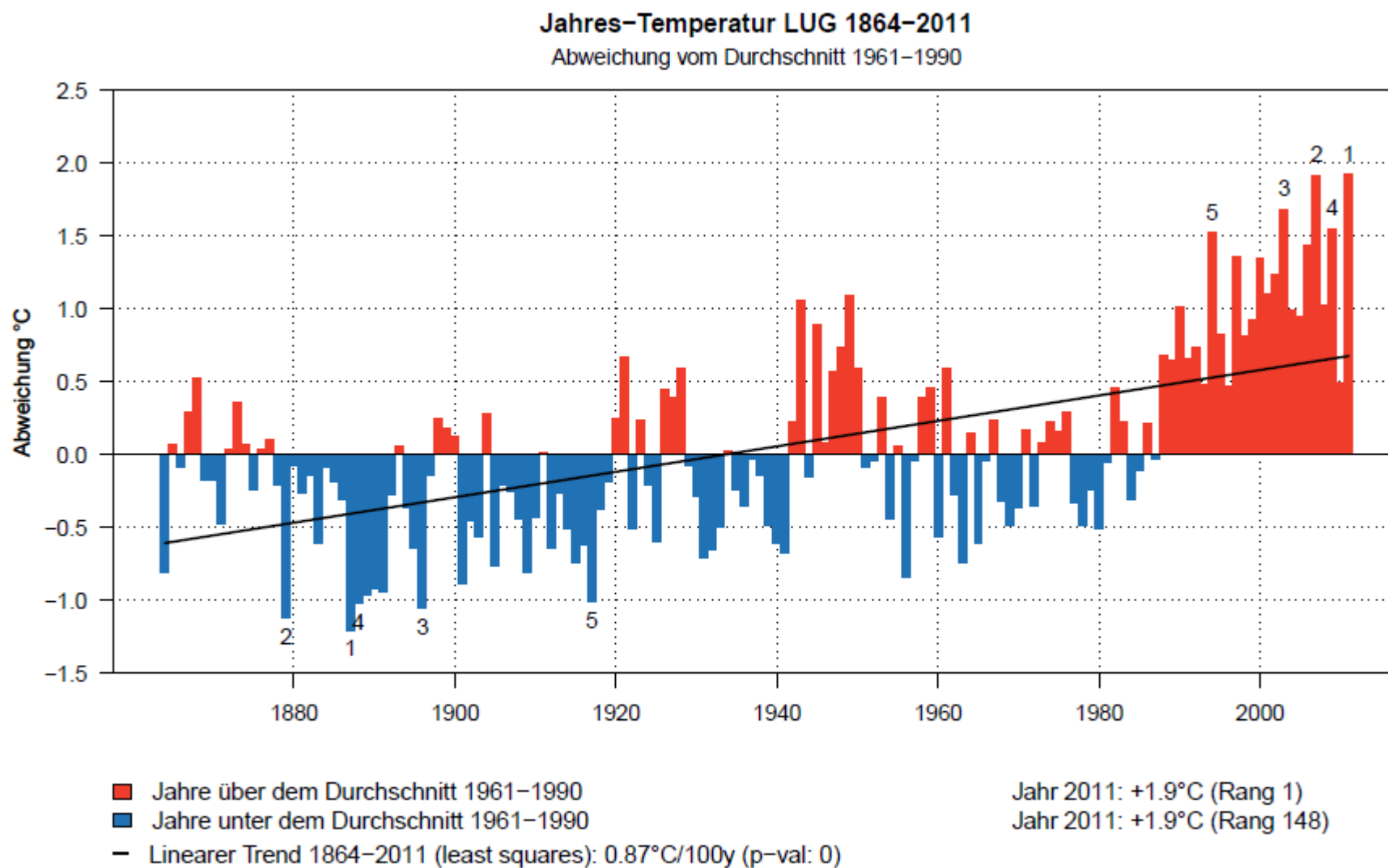




January– December	Anomaly		Rank (out of 132 years)	Records		
	°C	°F		Year(s)	°C	°F
Global						
Land	+0.83 ± 0.18	+1.49 ± 0.32	8 <sup>th</sup> Warmest	Warmest: 2007	+1.05	+1.89
			125 <sup>th</sup> Coolest	Coolest: 1907	-0.56	-1.01
Ocean	+0.40 ± 0.03	+0.72 ± 0.05	11 <sup>th</sup> Warmest	Warmest: 2003	+0.52	+0.94
			122 <sup>nd</sup> Coolest	Coolest: 1909	-0.45	-0.81
			Ties: 2007			
Land and Ocean	+0.51 ± 0.08	+0.92 ± 0.14	11 <sup>th</sup> Warmest	Warmest: 2005, 2010	+0.64	+1.15
			122 <sup>nd</sup> Coolest	Coolest: -0.42	-0.76	0.06
			Ties: 1997			
Northern Hemisphere						
Land	+0.94 ± 0.24	+1.69 ± 0.43	6 <sup>th</sup> Warmest	Warmest: 2007	+1.19	+2.14
			127 <sup>th</sup> Coolest	Coolest: 1884	-0.65	-1.17
Ocean	+0.39 ± 0.04	+0.70 ± 0.07	13 <sup>th</sup> Warmest	Warmest: 2005	+0.54	+0.97
			120 <sup>th</sup> Coolest	Coolest: -0.46	-0.83	0.05
Land and Ocean	+0.60 ± 0.14	+1.08 ± 0.25	10 <sup>th</sup> Warmest	Warmest: 2010	+0.75	+1.35
			123 <sup>rd</sup> Coolest	Coolest: -0.43	-0.77	0.06
			Ties: 2001			
Southern Hemisphere						
Land	+0.52 ± 0.11	+0.94 ± 0.20	14 <sup>th</sup> Warmest	Warmest: 2005	+0.87	+1.57
			119 <sup>th</sup> Coolest	Coolest: 1917	-0.71	-1.28
			Ties: 1991			
Ocean	+0.41 ± 0.03	+0.74 ± 0.05	11 <sup>th</sup> Warmest	Warmest: 1998	+0.54	+0.97
			122 <sup>nd</sup> Coolest	Coolest: 1911	-0.46	-0.83
Land and Ocean	+0.43 ± 0.06	+0.77 ± 0.11	12 <sup>th</sup> Warmest	Warmest: 1998	+0.58	+1.04
			121 <sup>st</sup> Coolest	Coolest: 1911	-0.47	-0.85



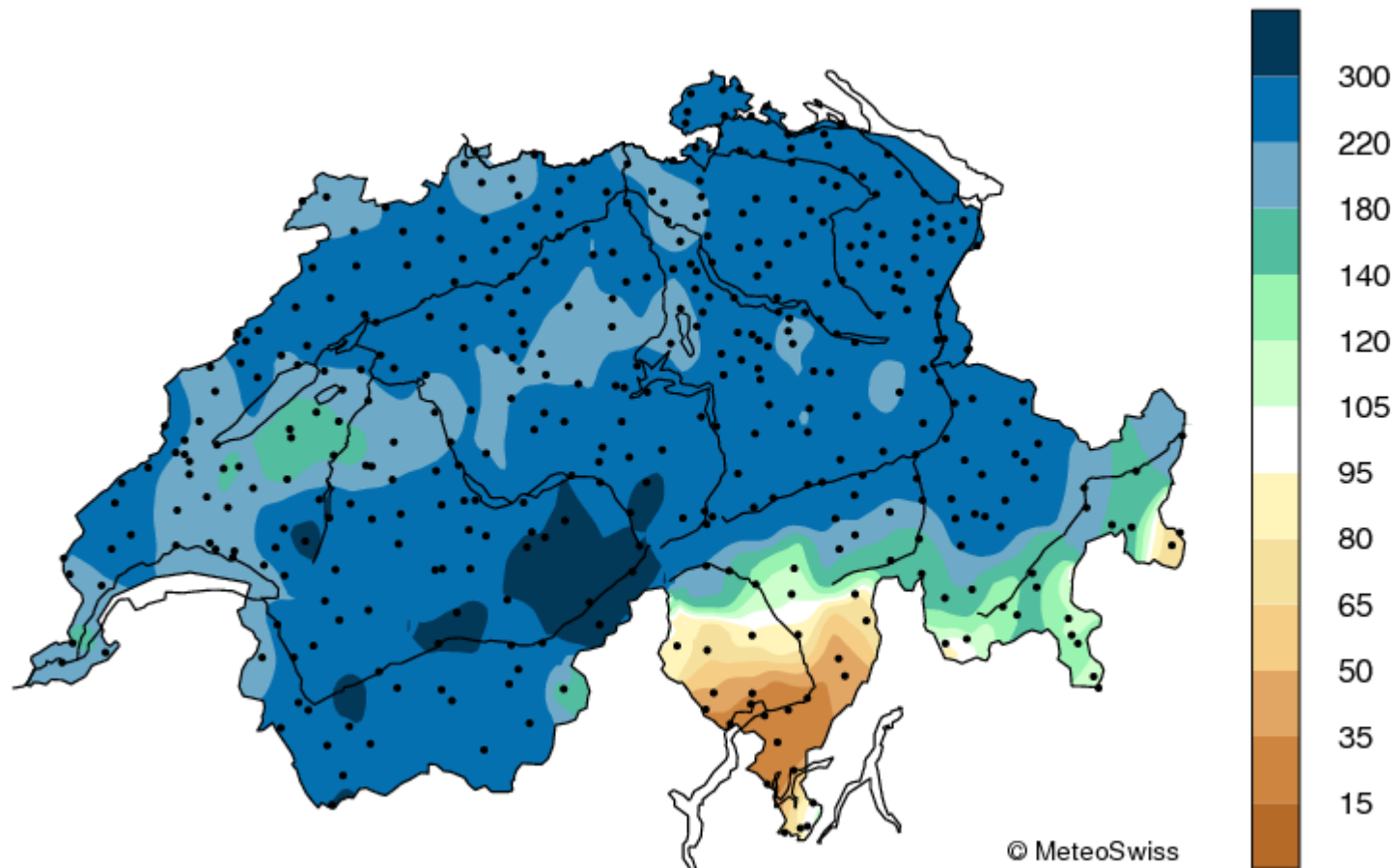
# L' anno 2011





# Precipitazioni: dicembre 2011

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



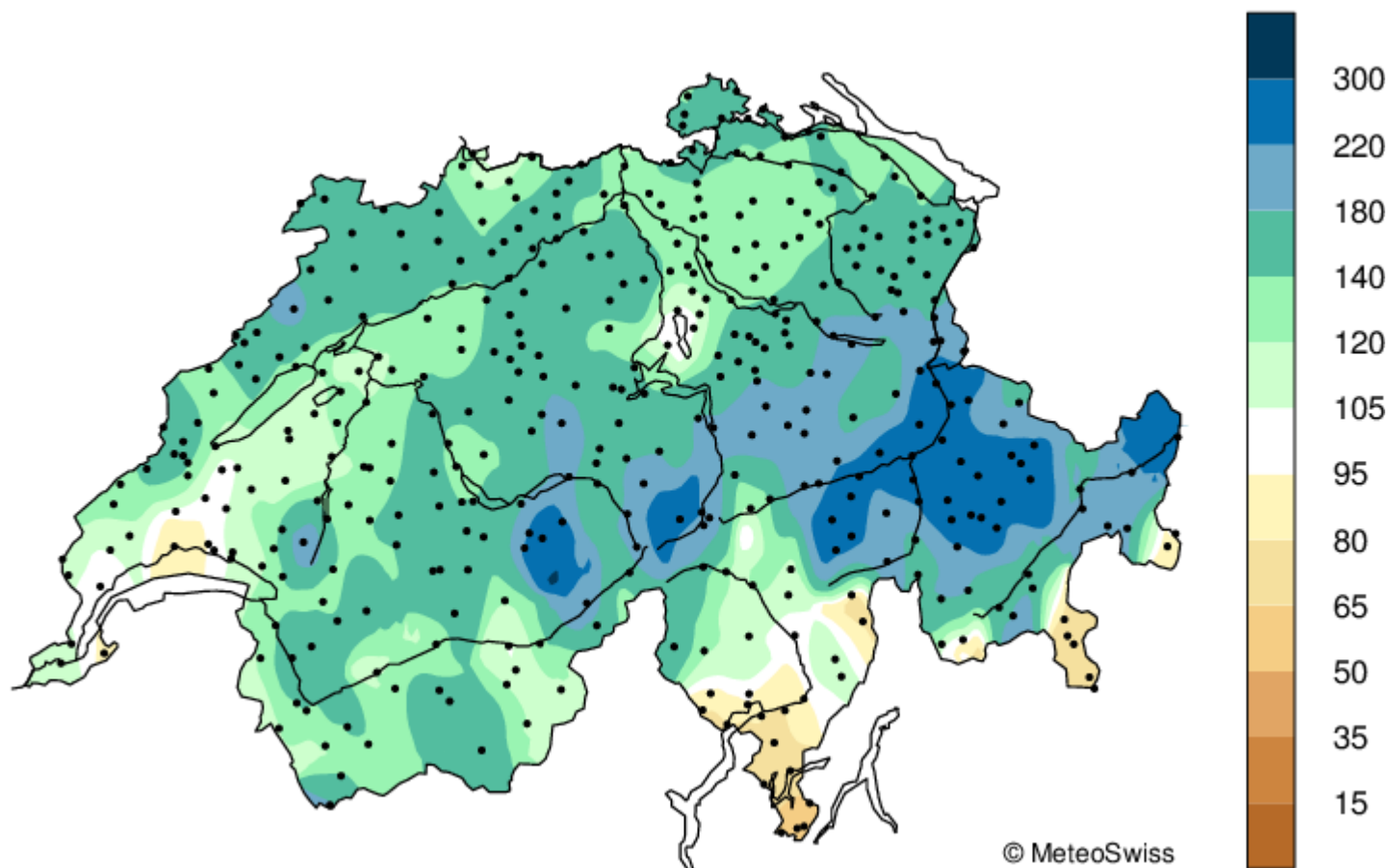
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RanomM v1.0, 2012-01-24 18:31



# Precipitazioni: gennaio 2012

Monthly Precipitation Anomaly (%) Jan 2012 (Ref. 1961–1990)



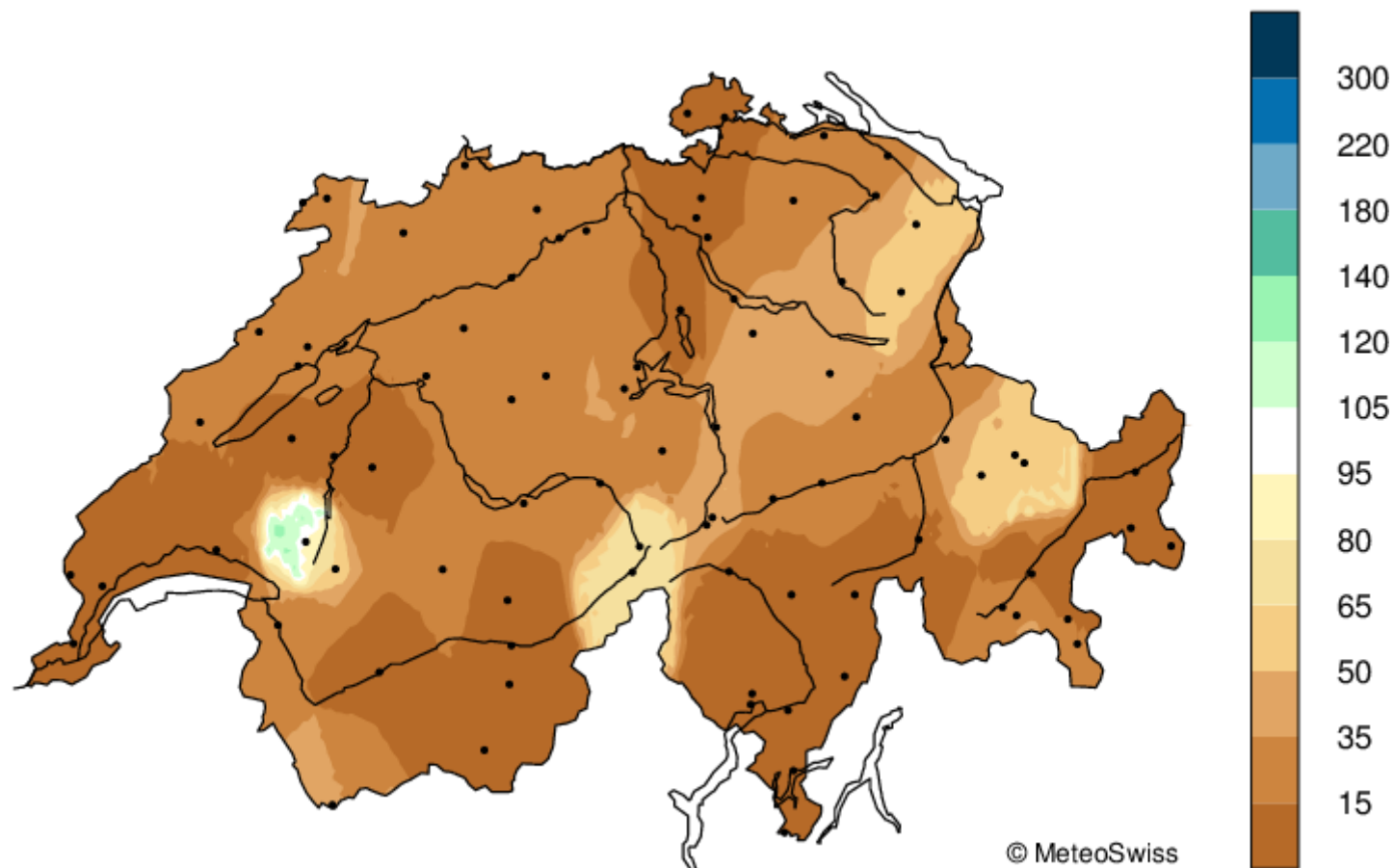
© MeteoSwiss

RanomM v1.0, 2012-02-24 18:25



# Precipitazioni: febbraio 2012

Monthly Precipitation Anomaly (%) Feb 2012 (Ref. 1961–1990)

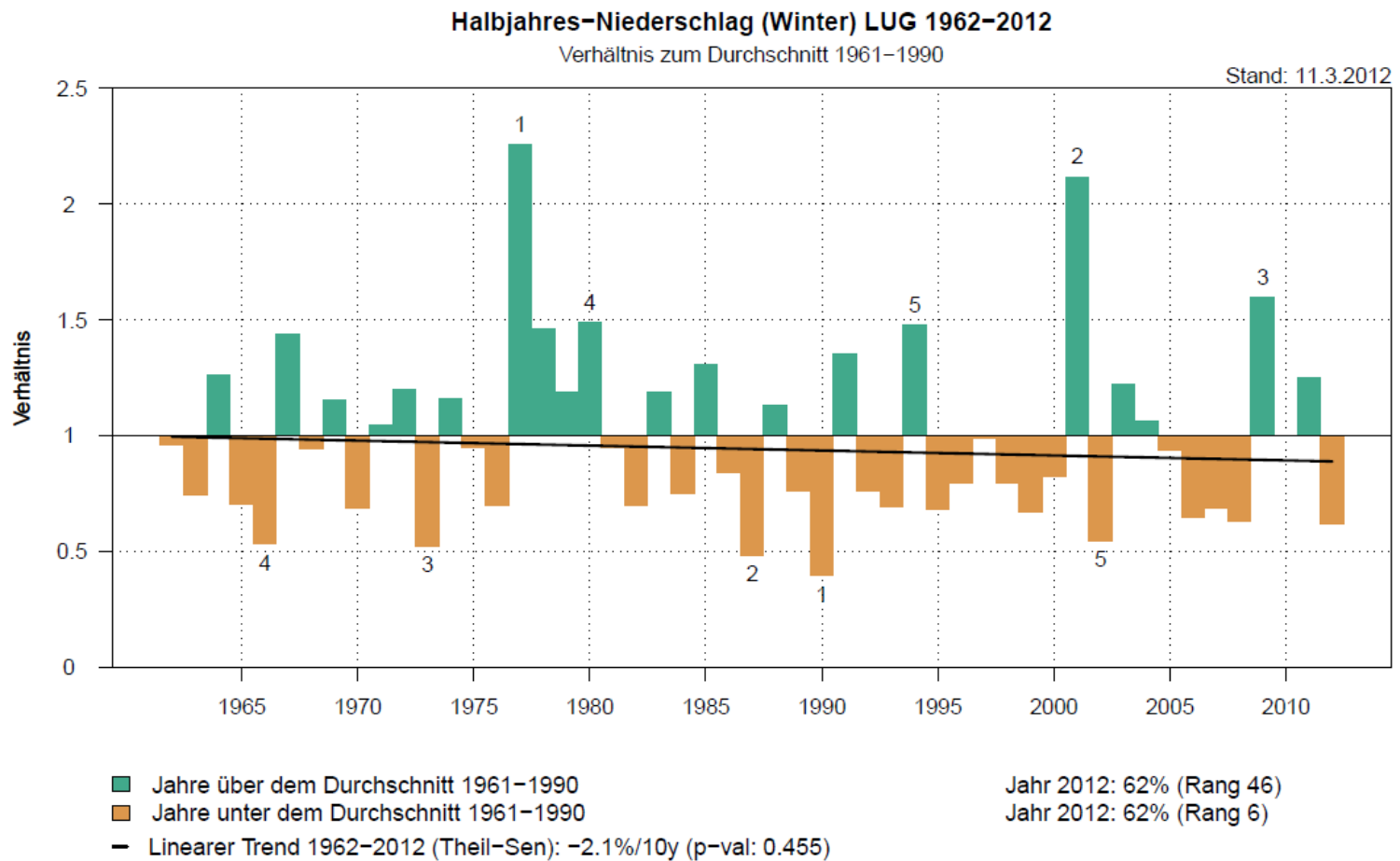


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RanomM v1.0, 2012-03-08 18:24



# L'inverno 2011-2012 rispetto agli altri





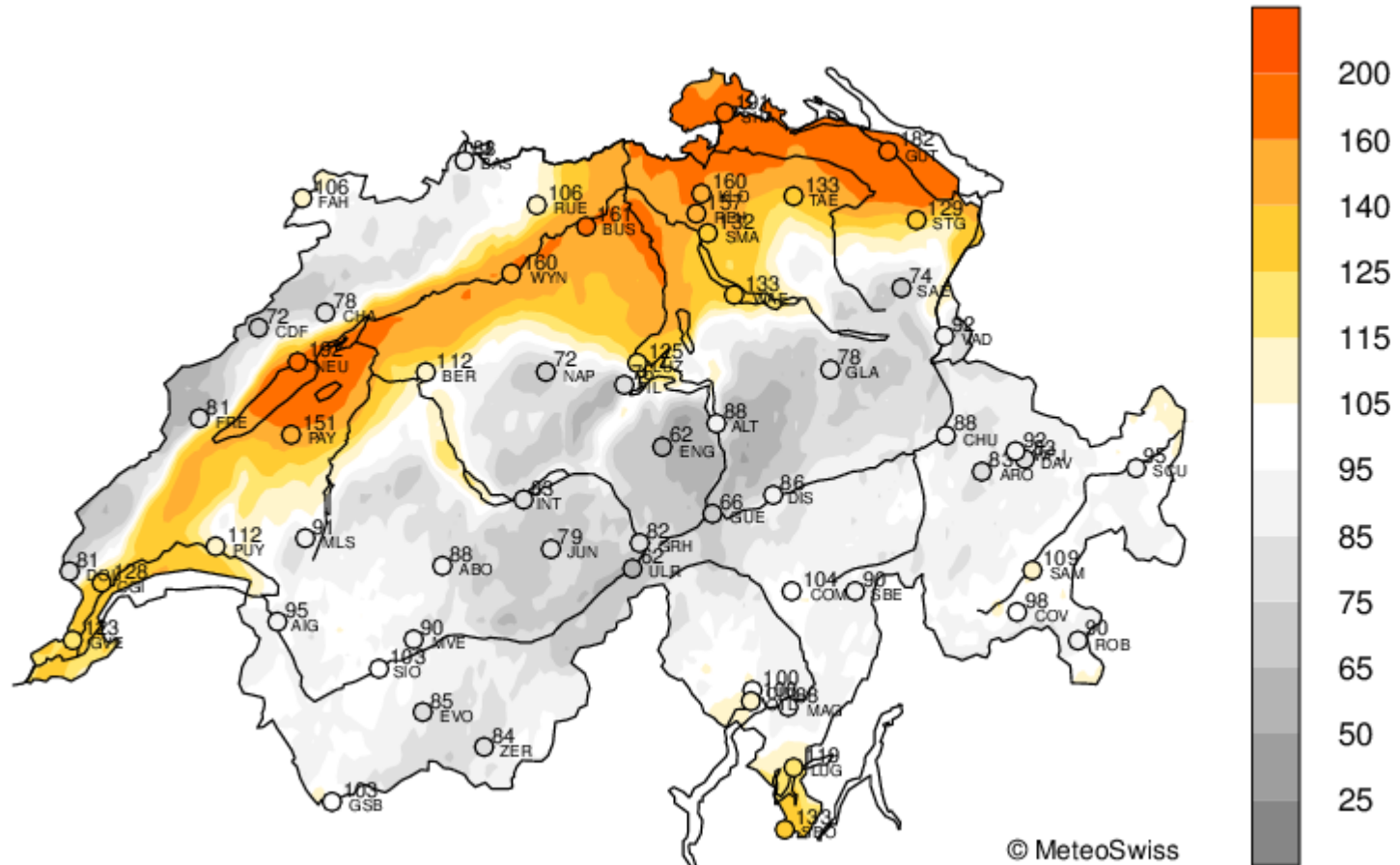
© MeteoSwiss

SanomM v1.2, 2012-01-26 18:28



# Soleggiamento: anomalia gennaio

Monthly Sunshine Duration Anomaly (%) Jan 2012 (Ref. 1961–1990)



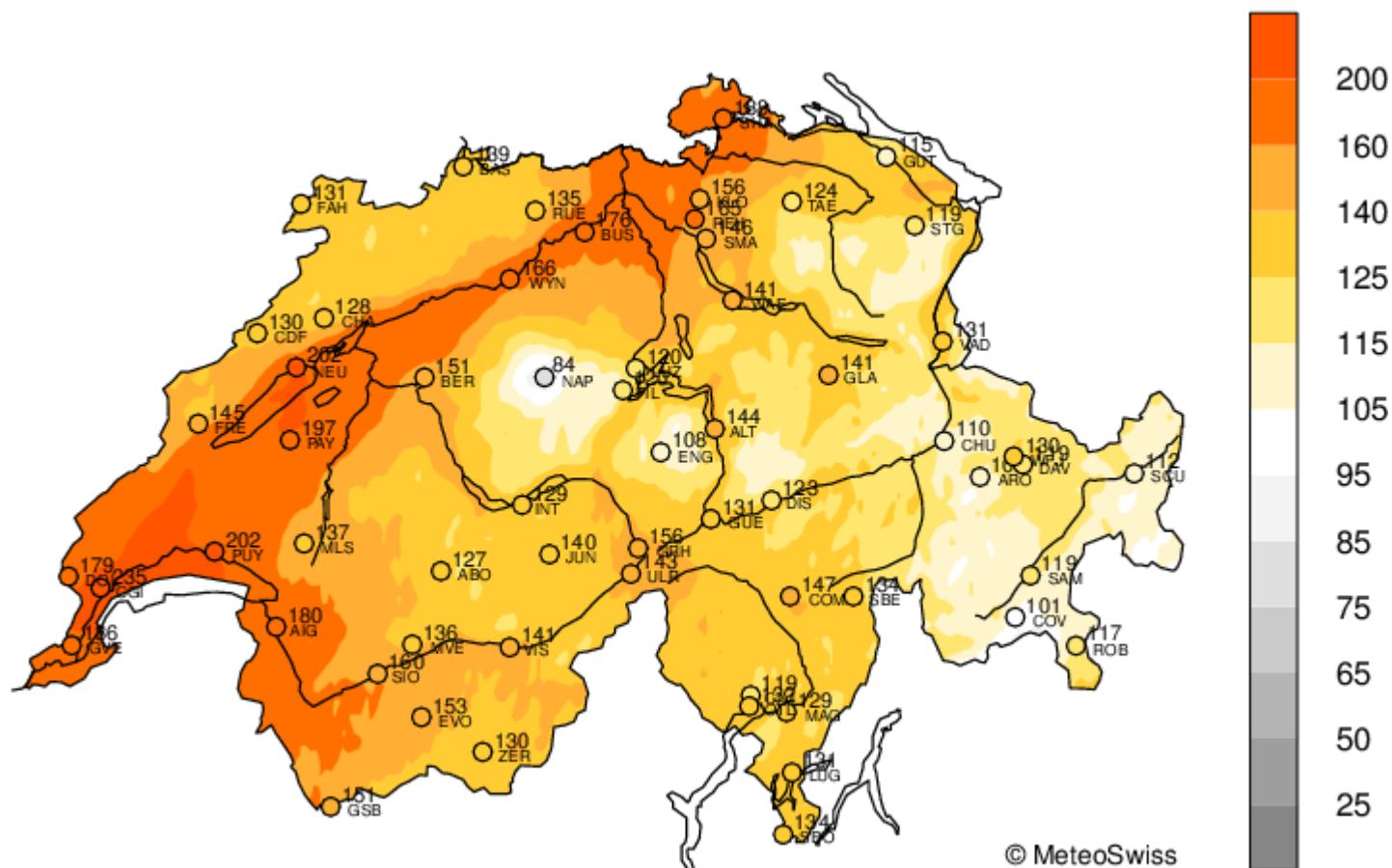
© MeteoSwiss

SanomM v1.2, 2012-02-26 18:10



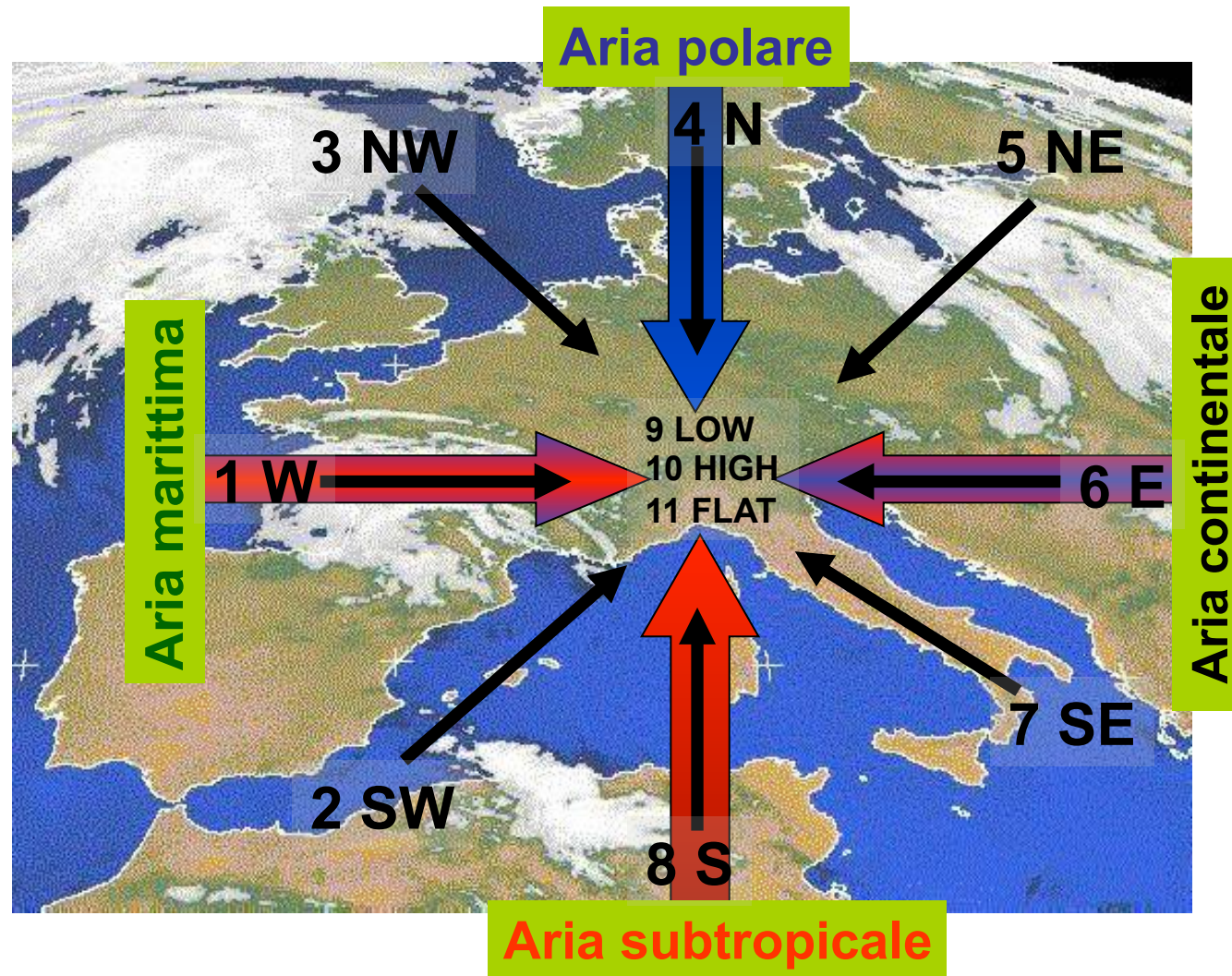
# Soleggiamento: anomalia febbraio

Monthly Sunshine Duration Anomaly (%) Feb 2012 (Ref. 1961–1990)



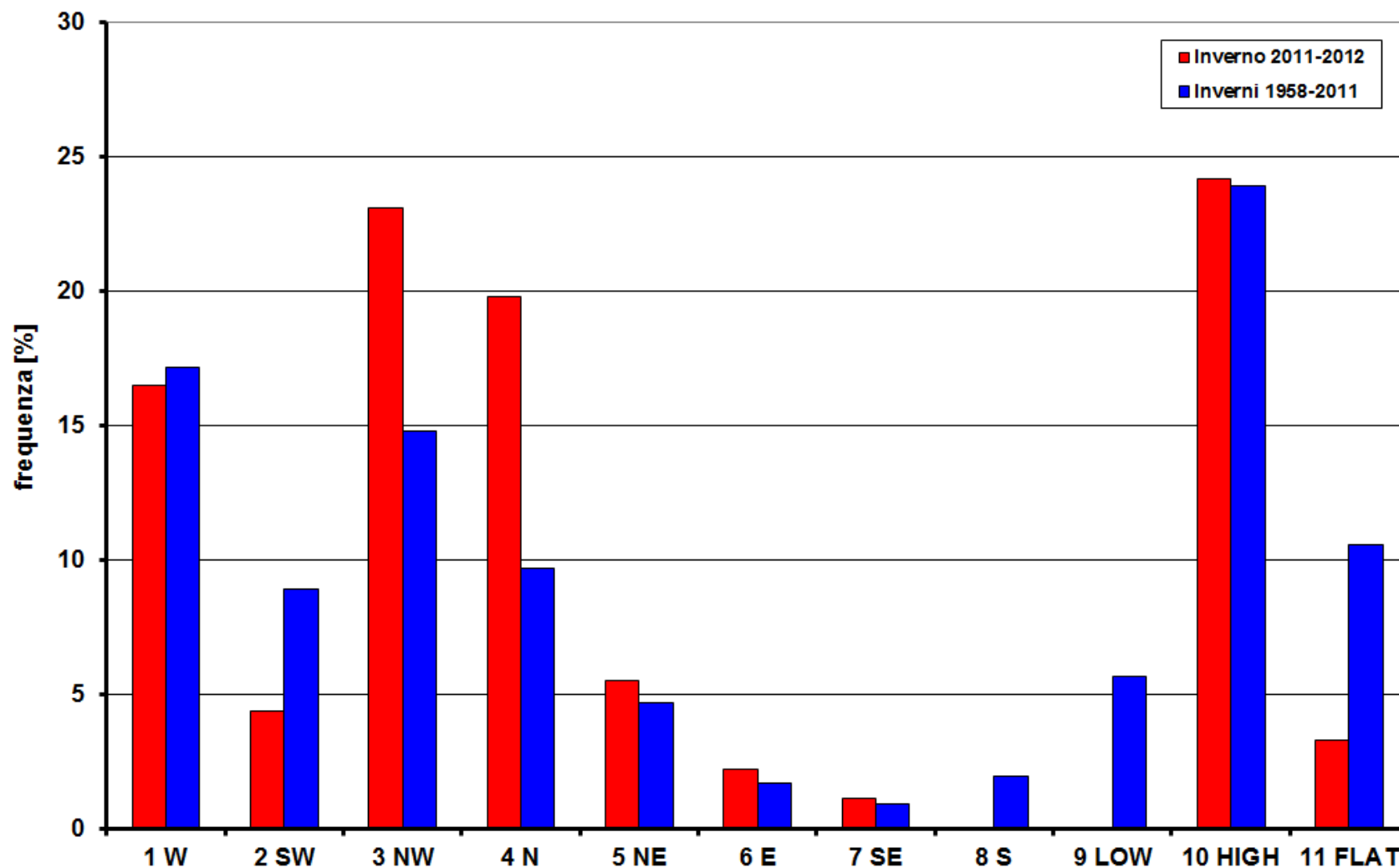


## Masse d'aria diverse, tempo diverso, situazioni diverse



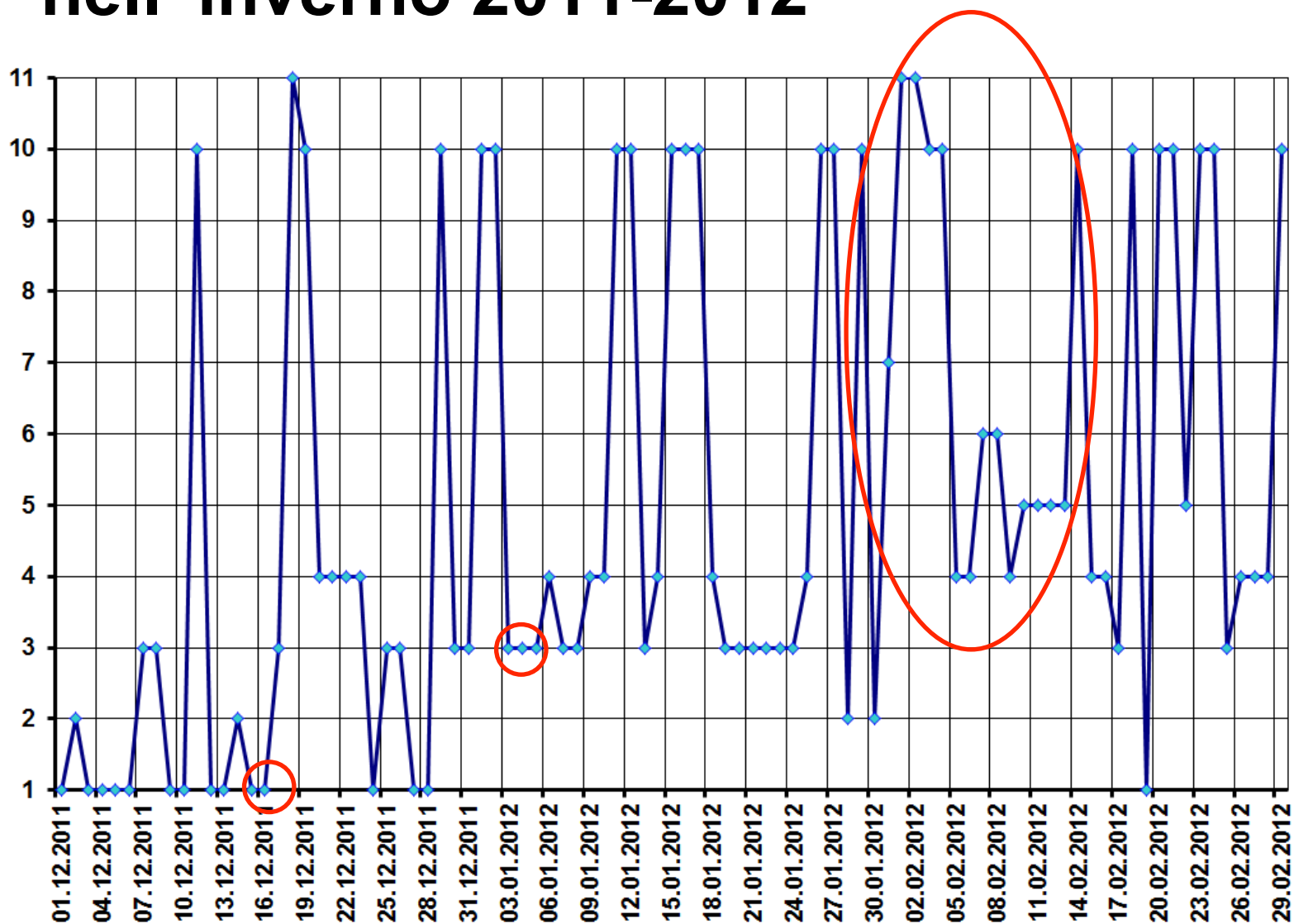


# La distribuzione delle situazioni nell' inverno 2011-2012



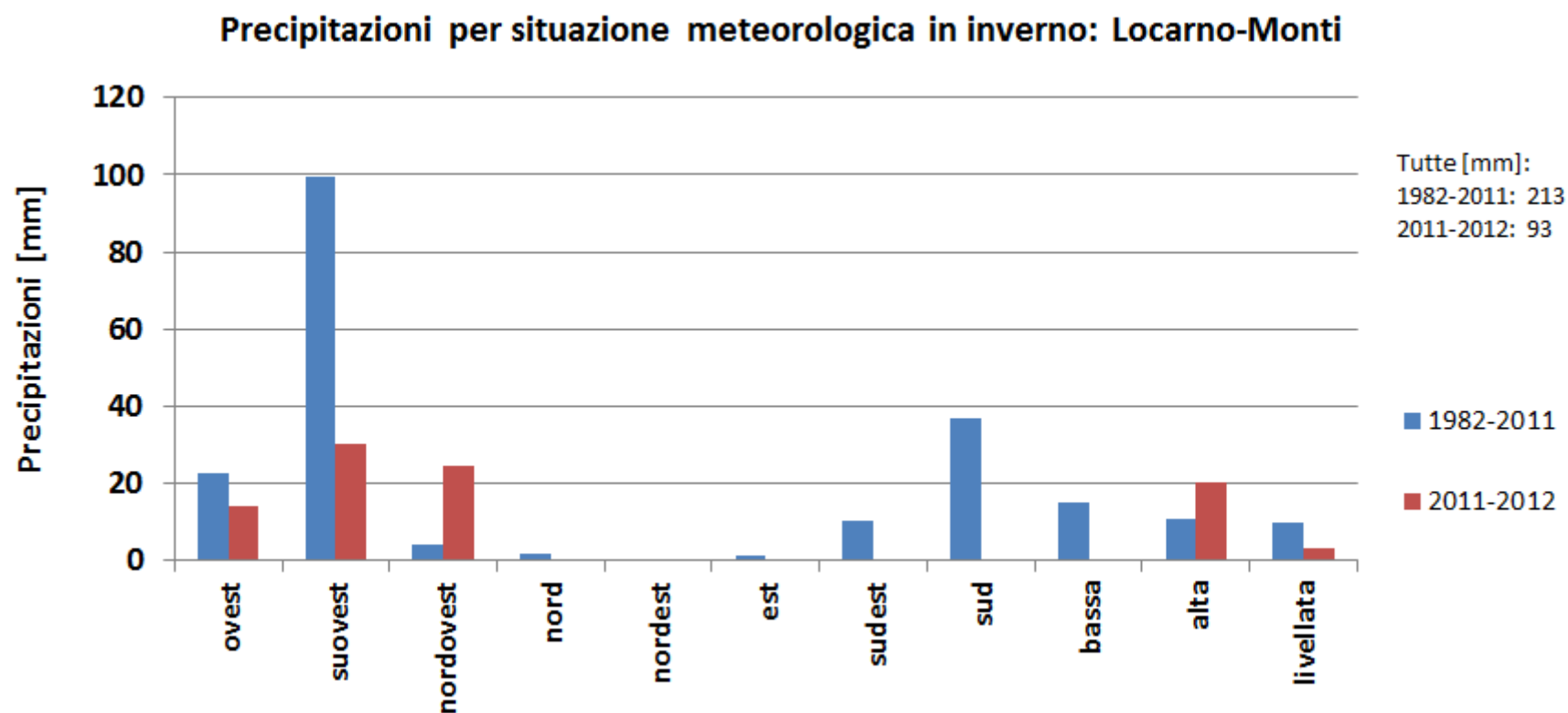


# L'evoluzione delle situazioni nell'inverno 2011-2012



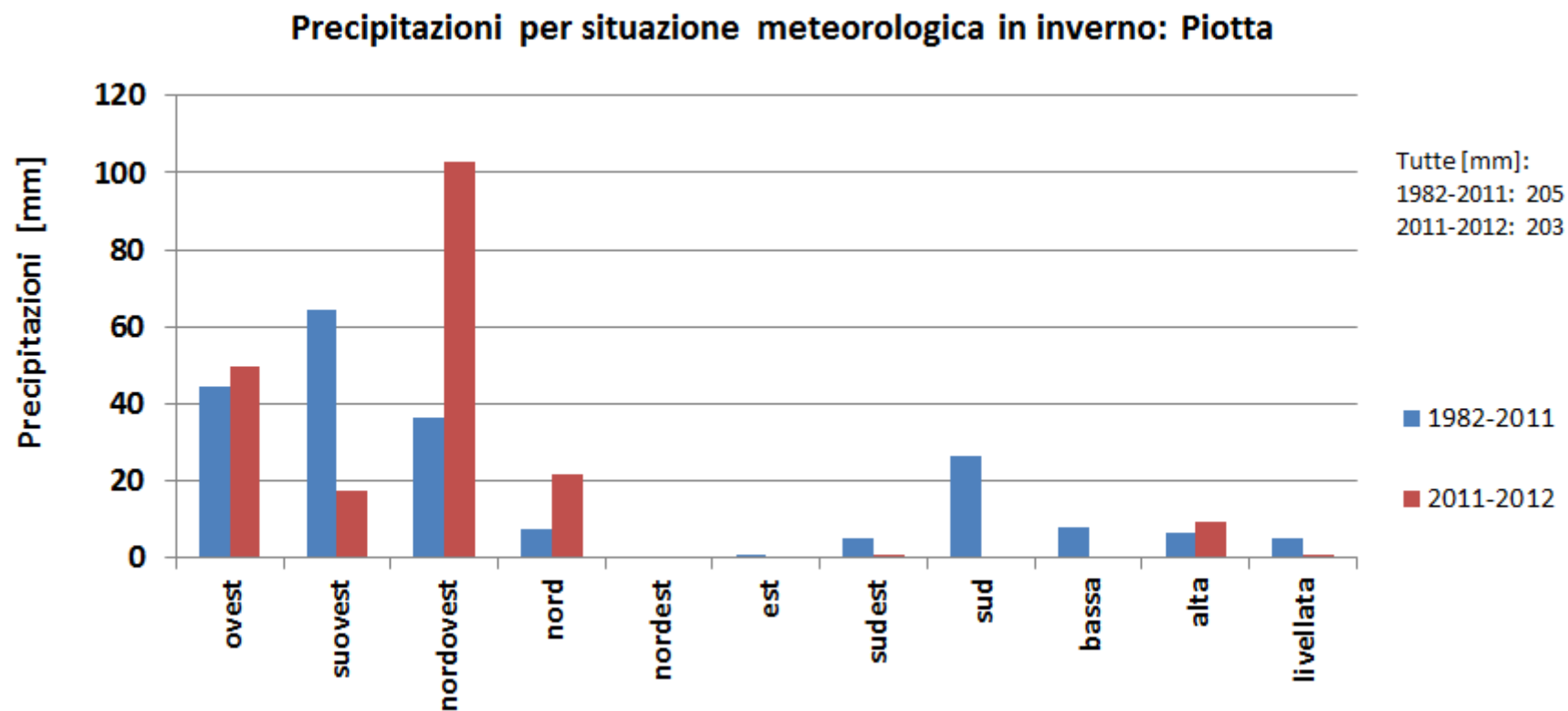


# Le precipitazioni per situazione





# Le precipitazioni per situazione

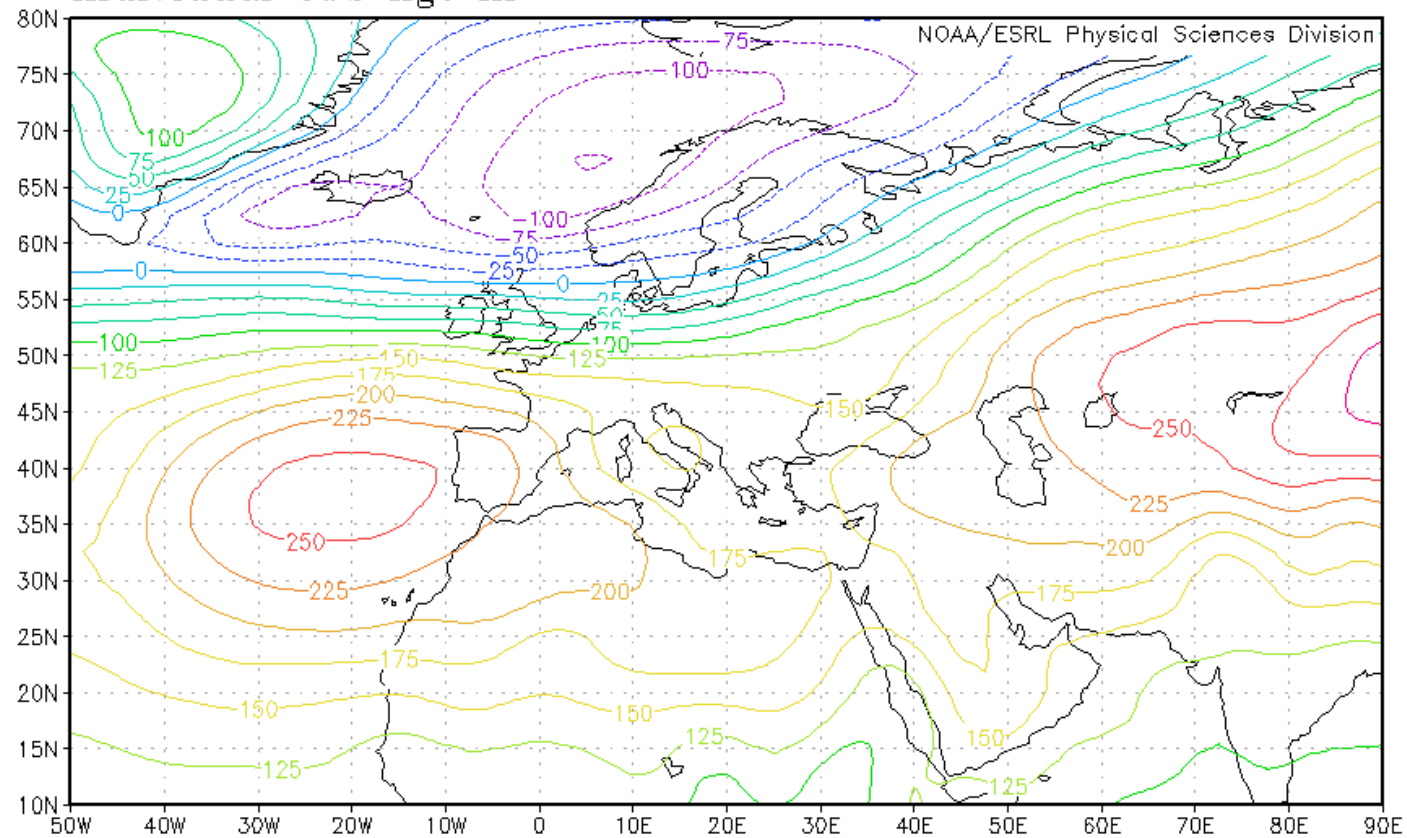






# Pressione al suolo media dicembre

lon: plotted from -50 to 90  
lat: plotted from 10 to 80.00  
lev: 1000.00  
t: averaged over Dec 1 2011 00 Z to Dec 31 2011 18 Z  
Individual Obs hgt m



MAX=316.121  
MIN=-126.242

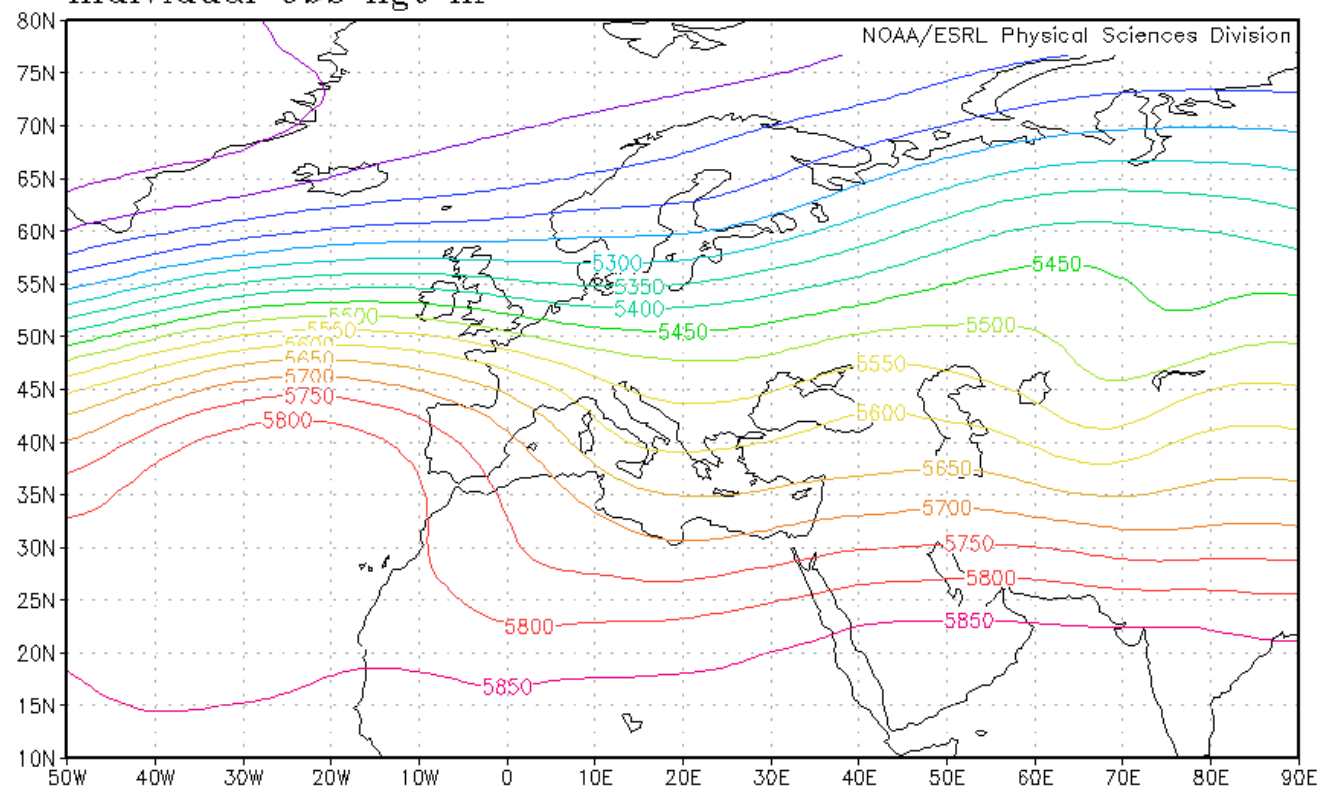
NCEP Reanalysis Pressure Level GrADS image



# Z@500: dicembre

lon: plotted from -50 to 90  
lat: plotted from 10 to 80.00  
lev: 500.00  
t: averaged over Dec 1 2011 00 Z to Dec 31 2011 18 Z

Individual Obs hgt m



MAX=5877.44  
MIN=5005.23

NCEP Reanalysis Pressure Level GrADS image



# Pressione al suolo media gennaio

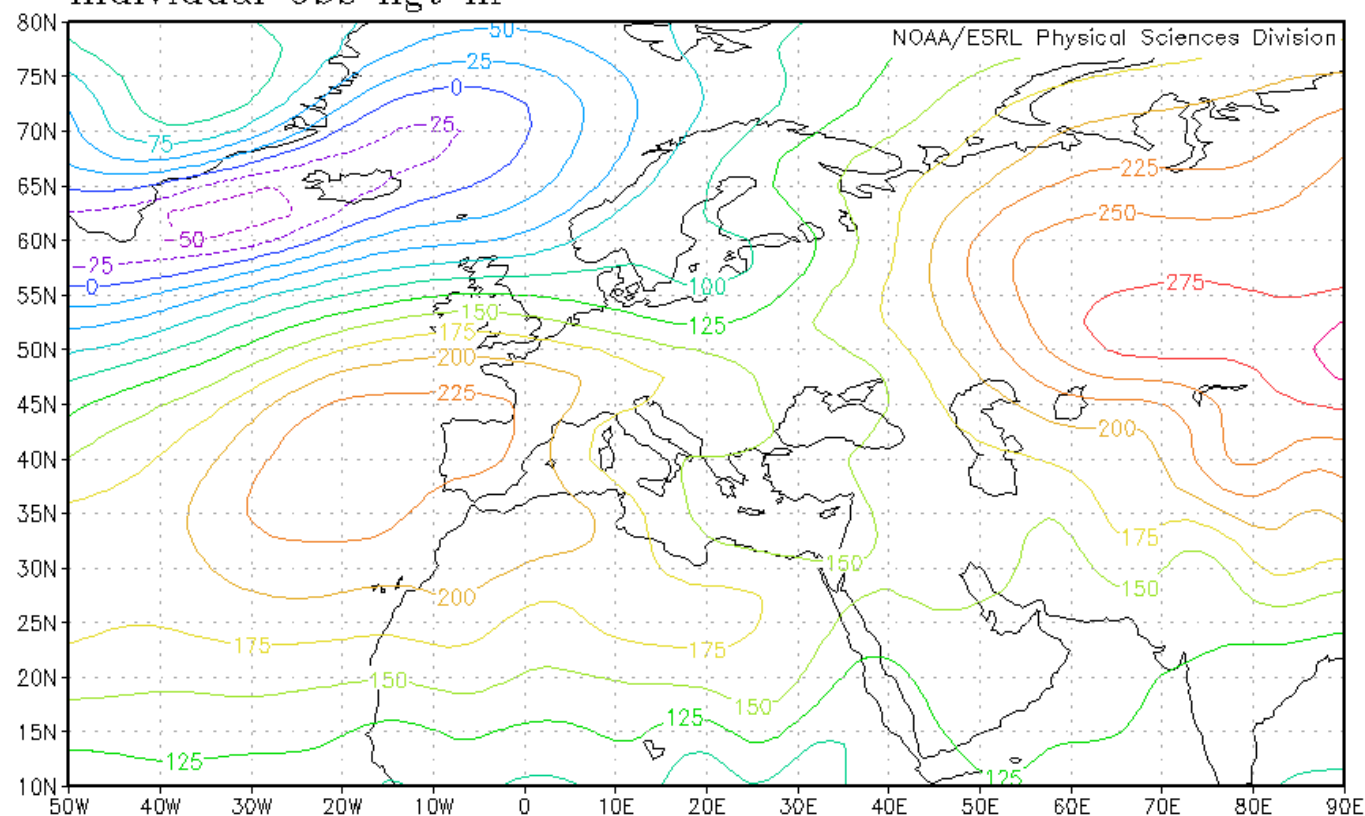
lon: plotted from -50 to 90

lat: plotted from 10 to 80.00

lev: 1000.00

t: averaged over Jan 1 2012 00 Z to Jan 31 2012 18 Z

Individual Obs hgt m



MAX=312.169  
MIN=-65.6532

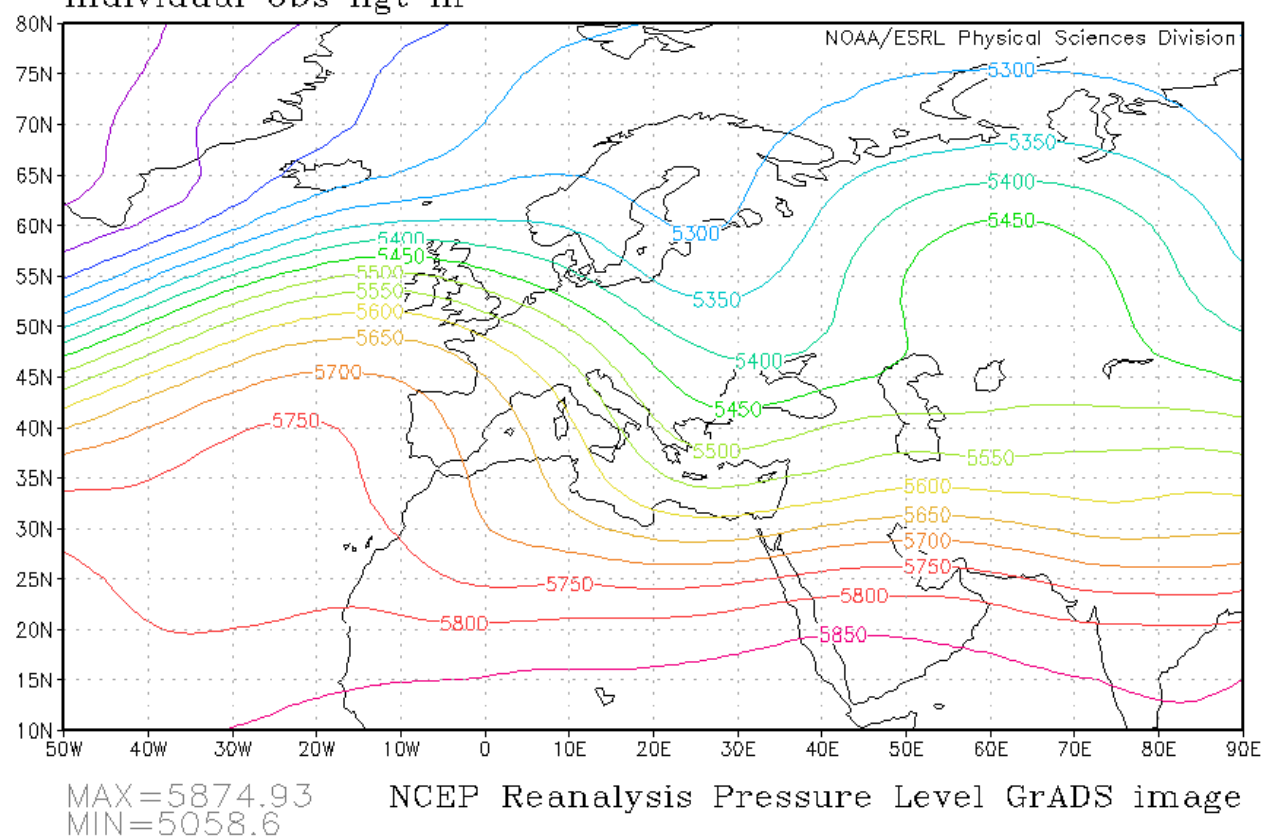
NCEP Reanalysis Pressure Level GrADS image



# Z@500: gennaio

lon: plotted from -50 to 90  
lat: plotted from 10 to 80.00  
lev: 500.00  
t: averaged over Jan 1 2012 00 Z to Jan 31 2012 18 Z

Individual Obs hgt m





# Pressione al suolo media febbraio

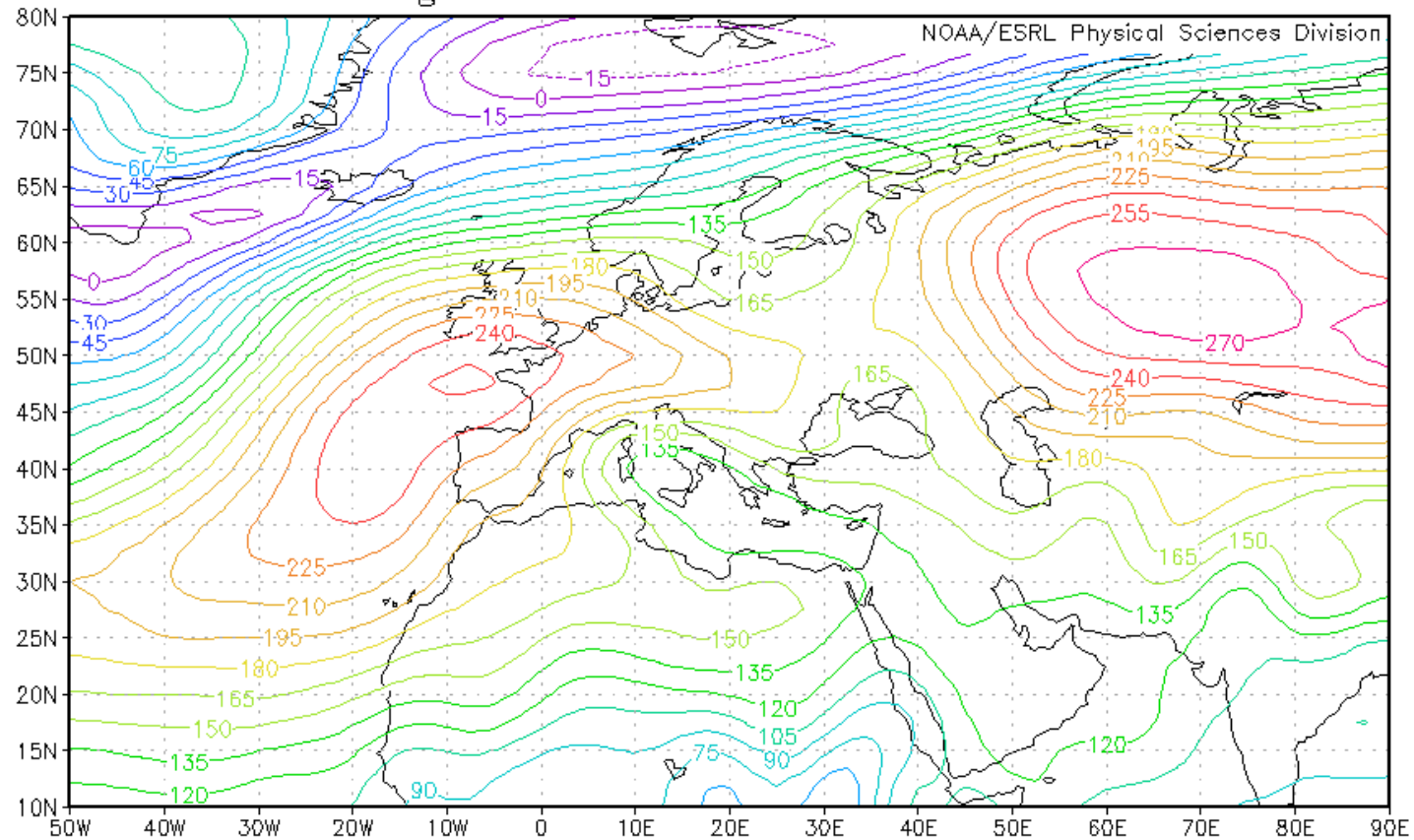
lon: plotted from -50 to 90

lat: plotted from 10 to 80.00

lev: 1000.00

t: averaged over Feb 1 2012 00 Z to Feb 31 2012 18 Z

Individual Obs hgt m



MAX=283.677  
MIN=-23.4032

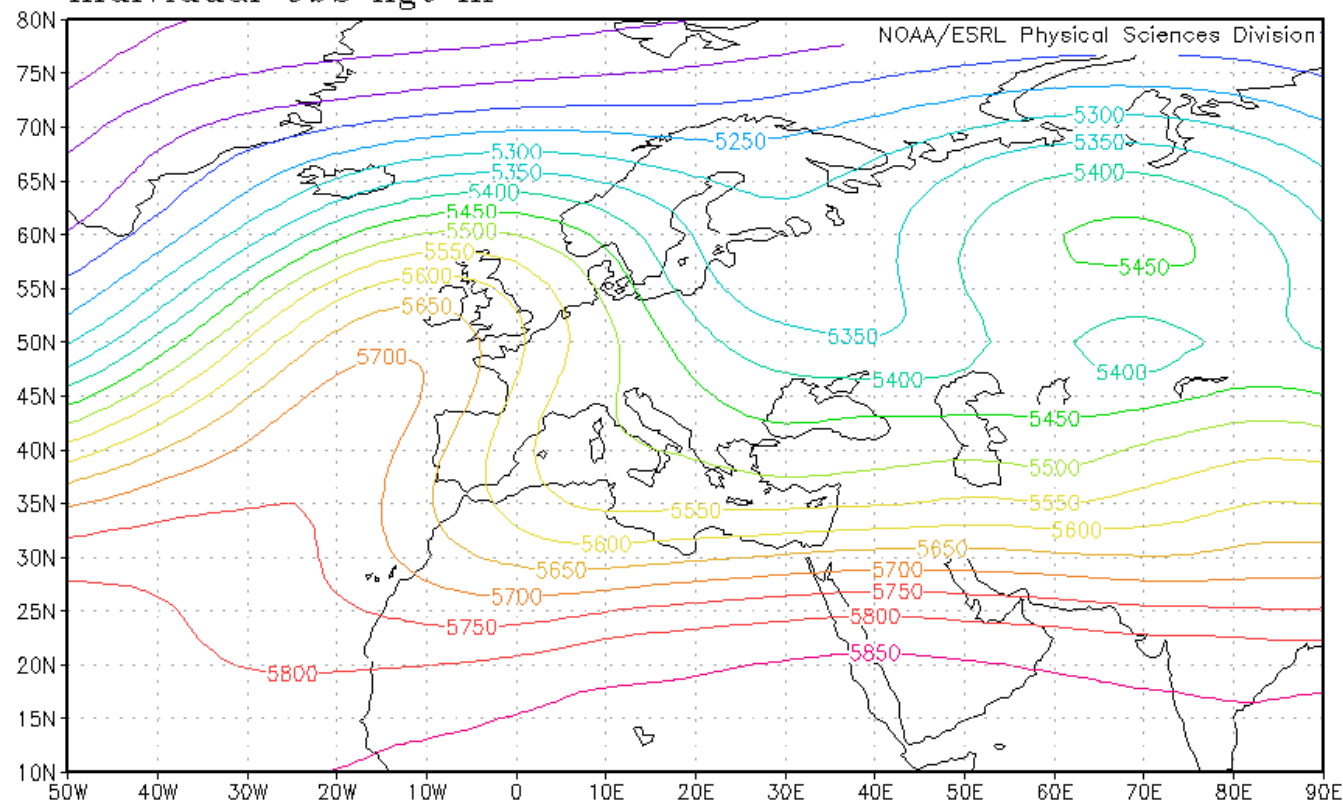
NCEP Reanalysis Pressure Level GrADS image



# Z@500: febbraio

lon: plotted from -50 to 90  
lat: plotted from 10 to 80.00  
lev: 500.00  
t: averaged over Feb 1 2012 00 Z to Feb 31 2012 18 Z

Individual Obs hgt m



MAX=5874.27  
MIN=5026.48

NCEP Reanalysis Pressure Level GrADS image



# 15-16.12.2011

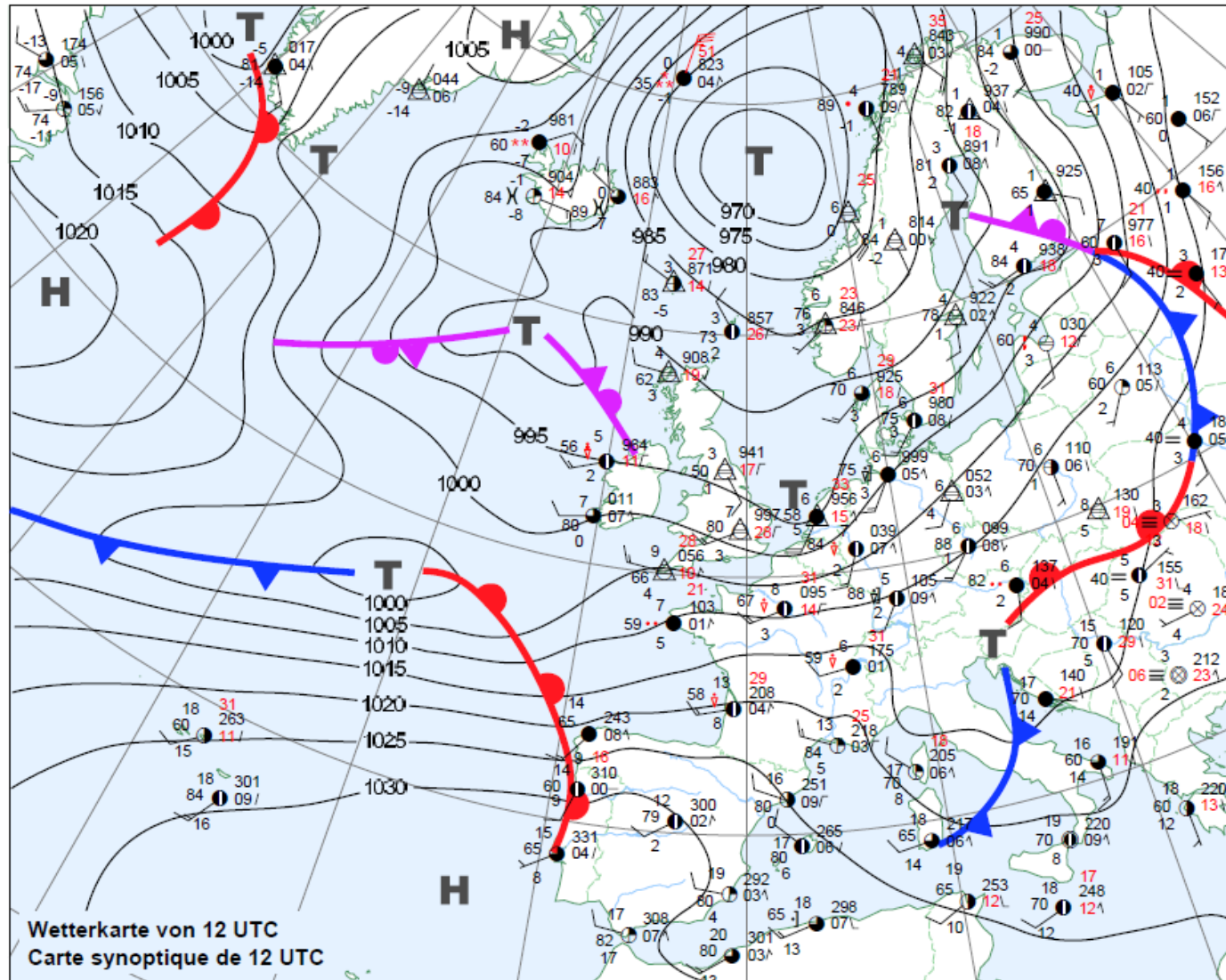
Wetterübersicht vom Donnerstag  
Résumé météorologique du Jeudi

15.12.2011



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Département fédéral de l'intérieur DFI  
Bundesamt für Meteorologie und Klimatologie MeteoSchweiz  
Office fédéral de météorologie et de climatologie MétéoSuisse





# 15-16.12.2011

Wetterübersicht vom Freitag

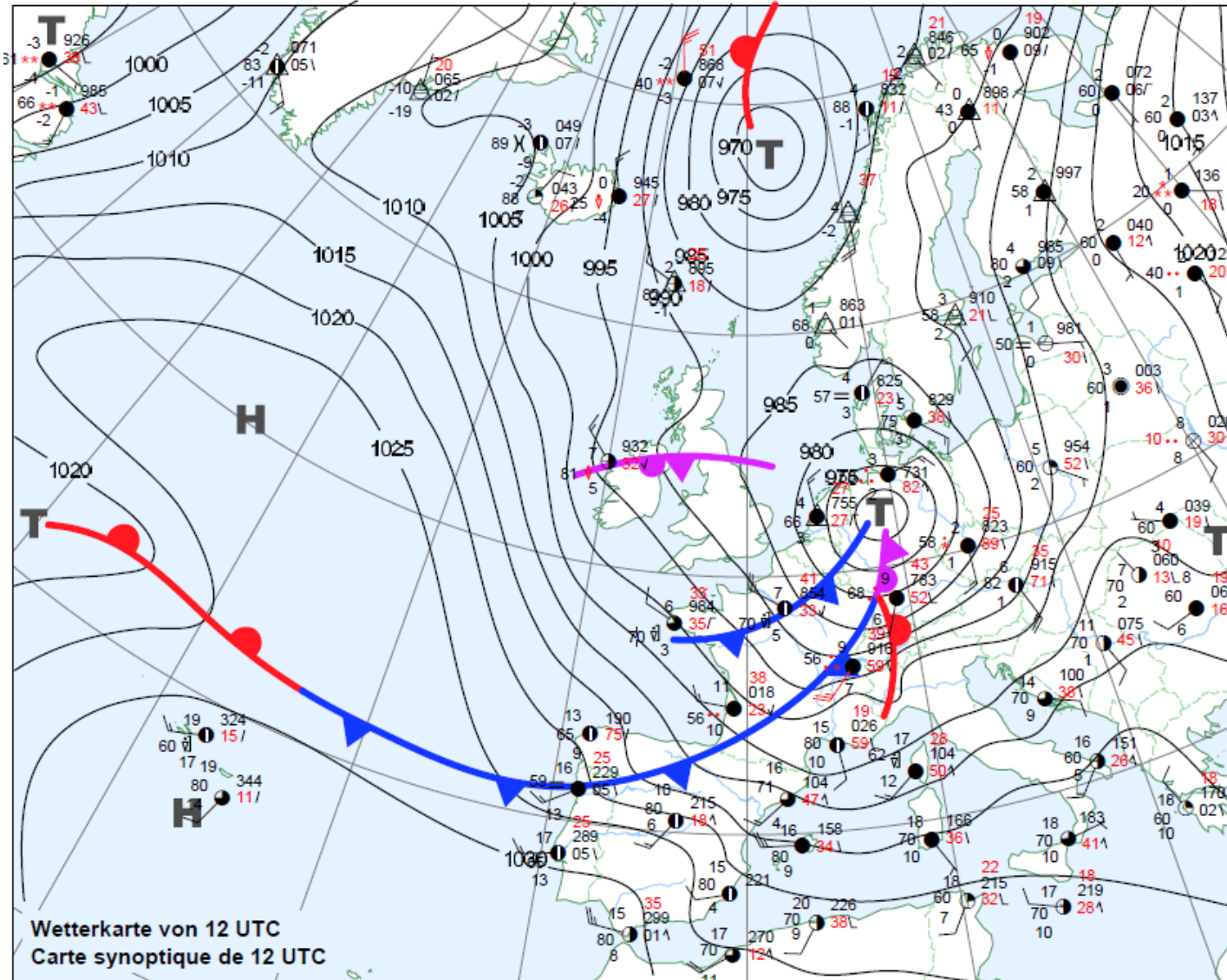
Résumé météorologique du Vendredi

16.12.2011



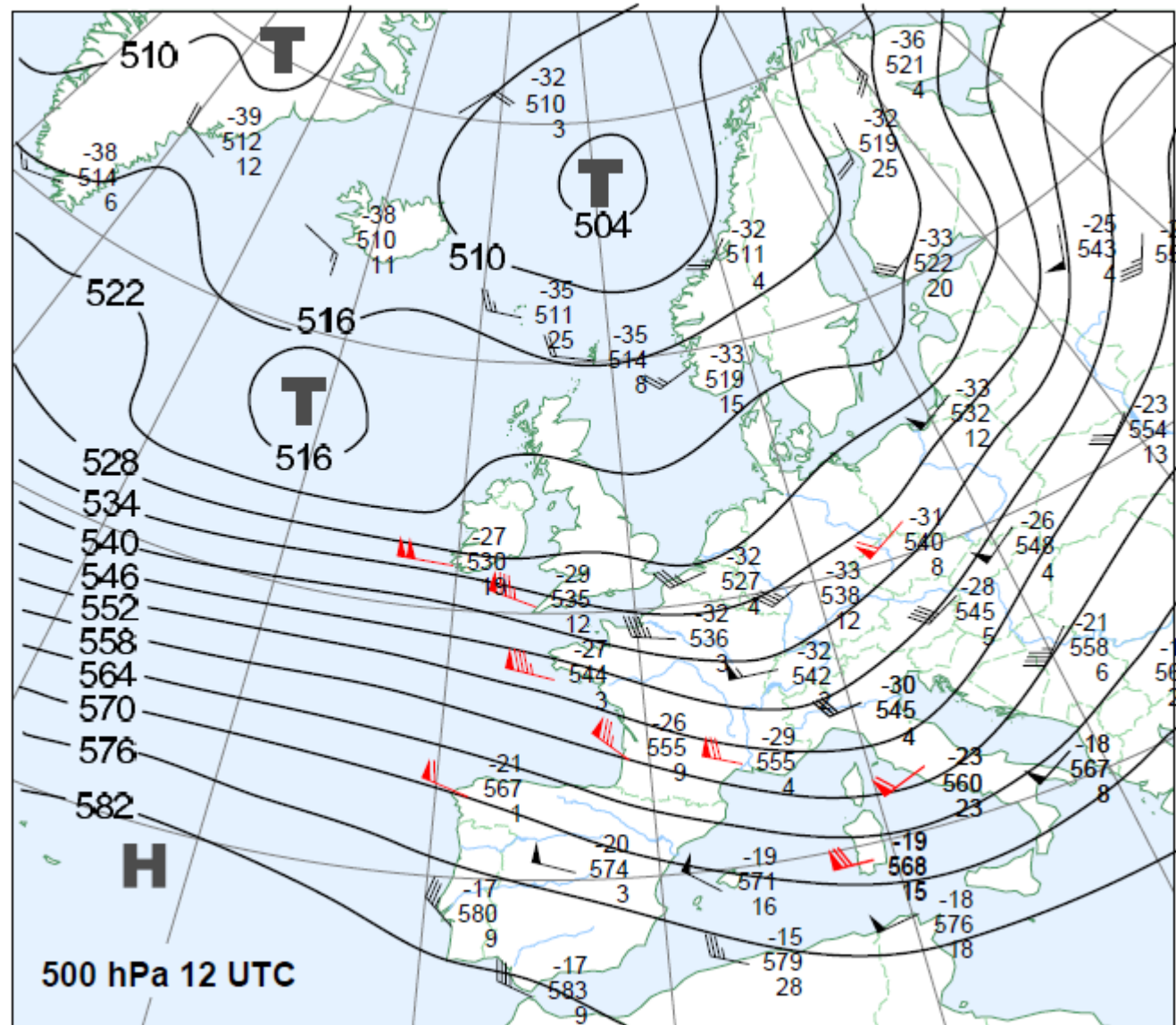
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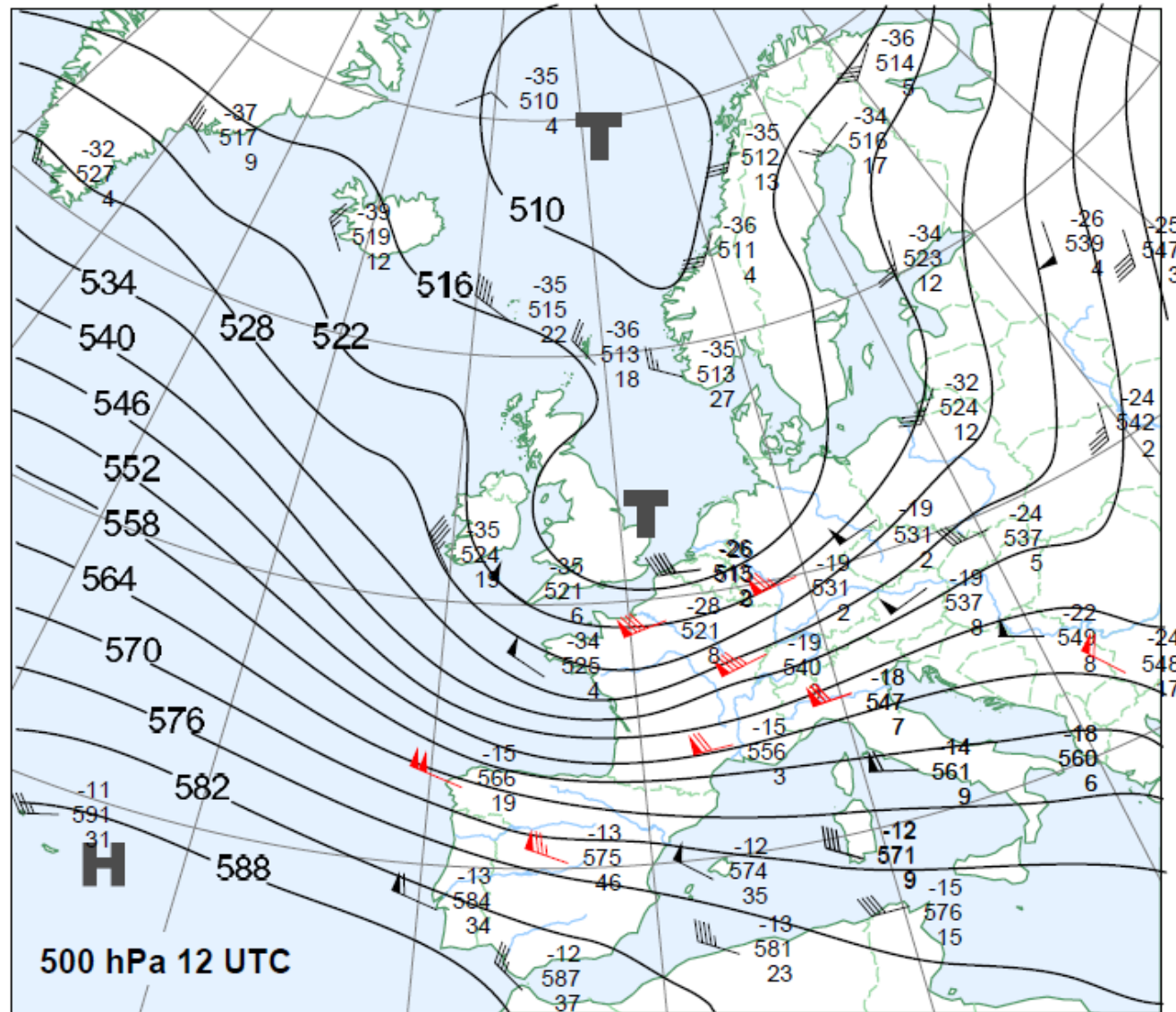


# 15-16.12.2011



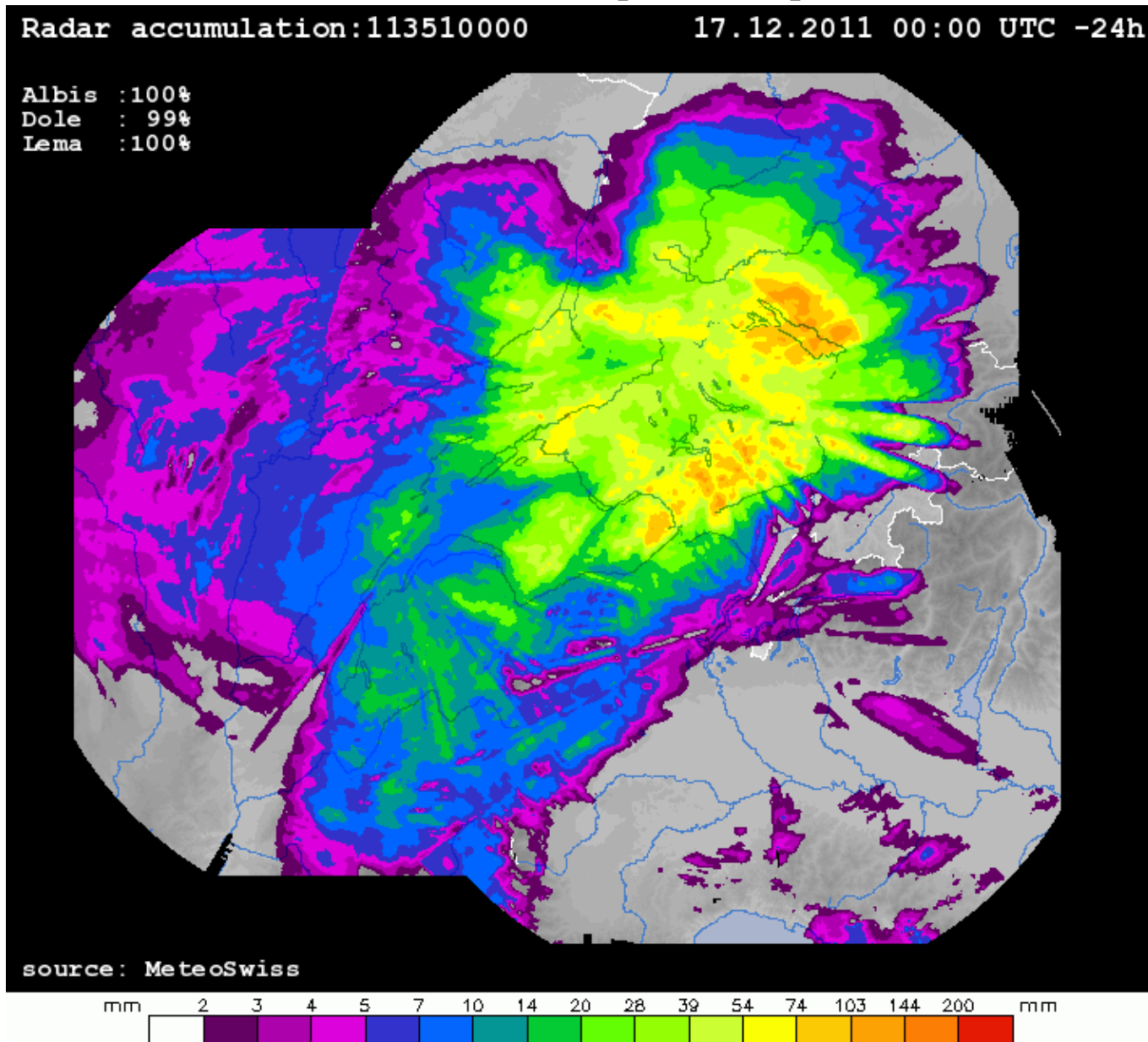


# 15-16.12.2011





# 16.12.2011: stima precipitazioni radar





# 5.1.2012

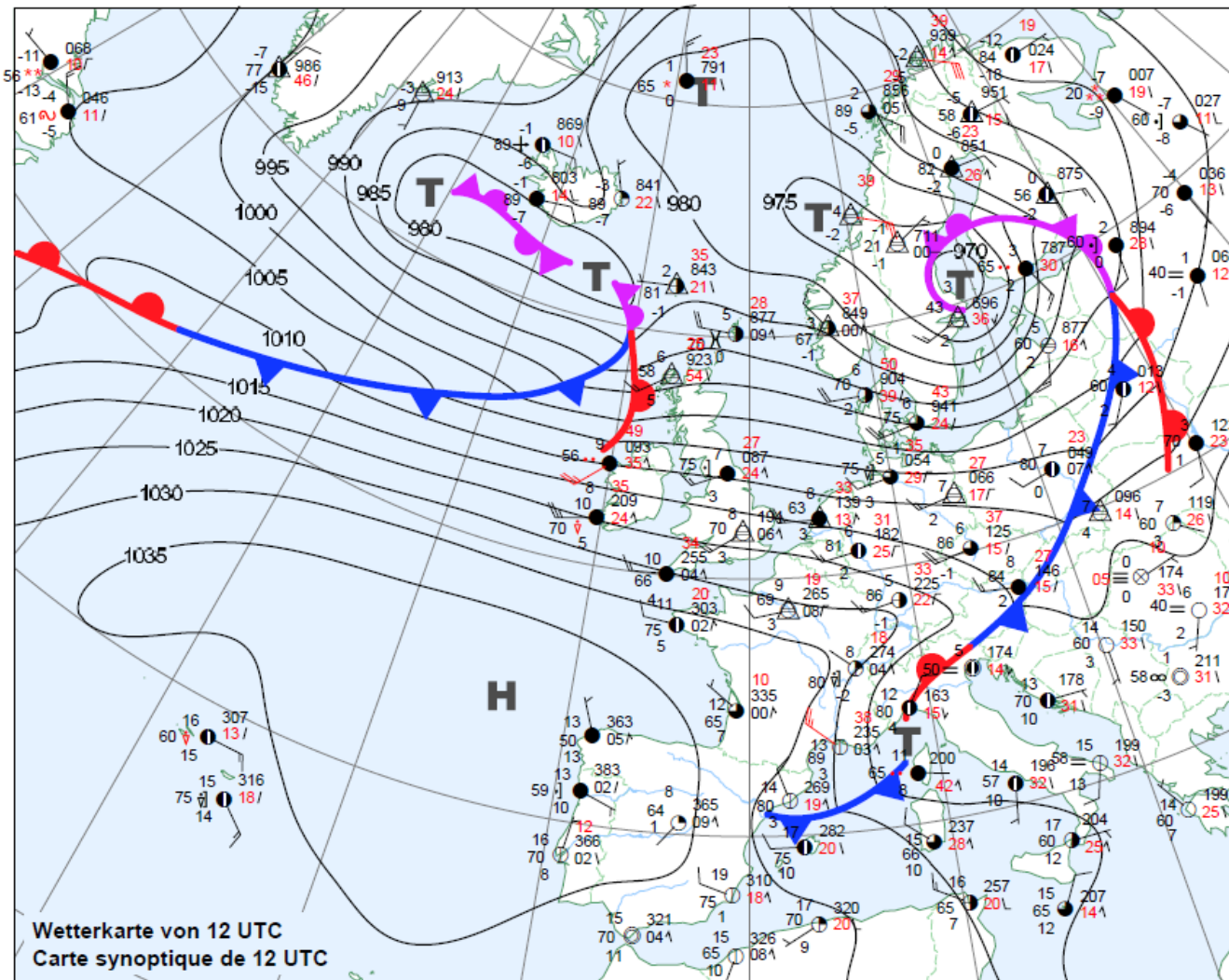
Wetterübersicht vom Mittwoch  
Résumé météorologique du Mercredi

4.1.2012



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# 5.1.2012

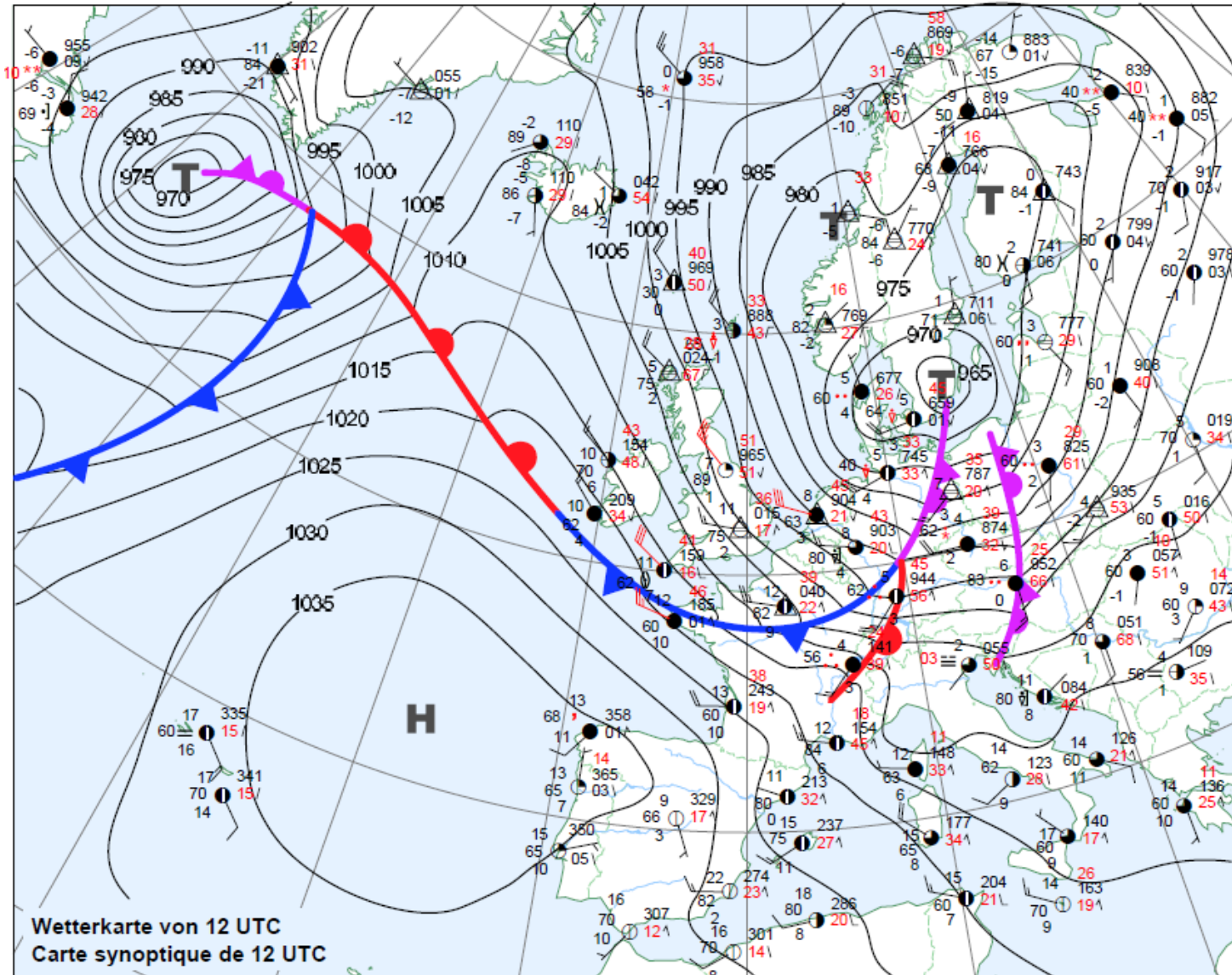
Wetterübersicht vom Donnerstag  
Résumé météorologique du Jeudi

5.1.2012



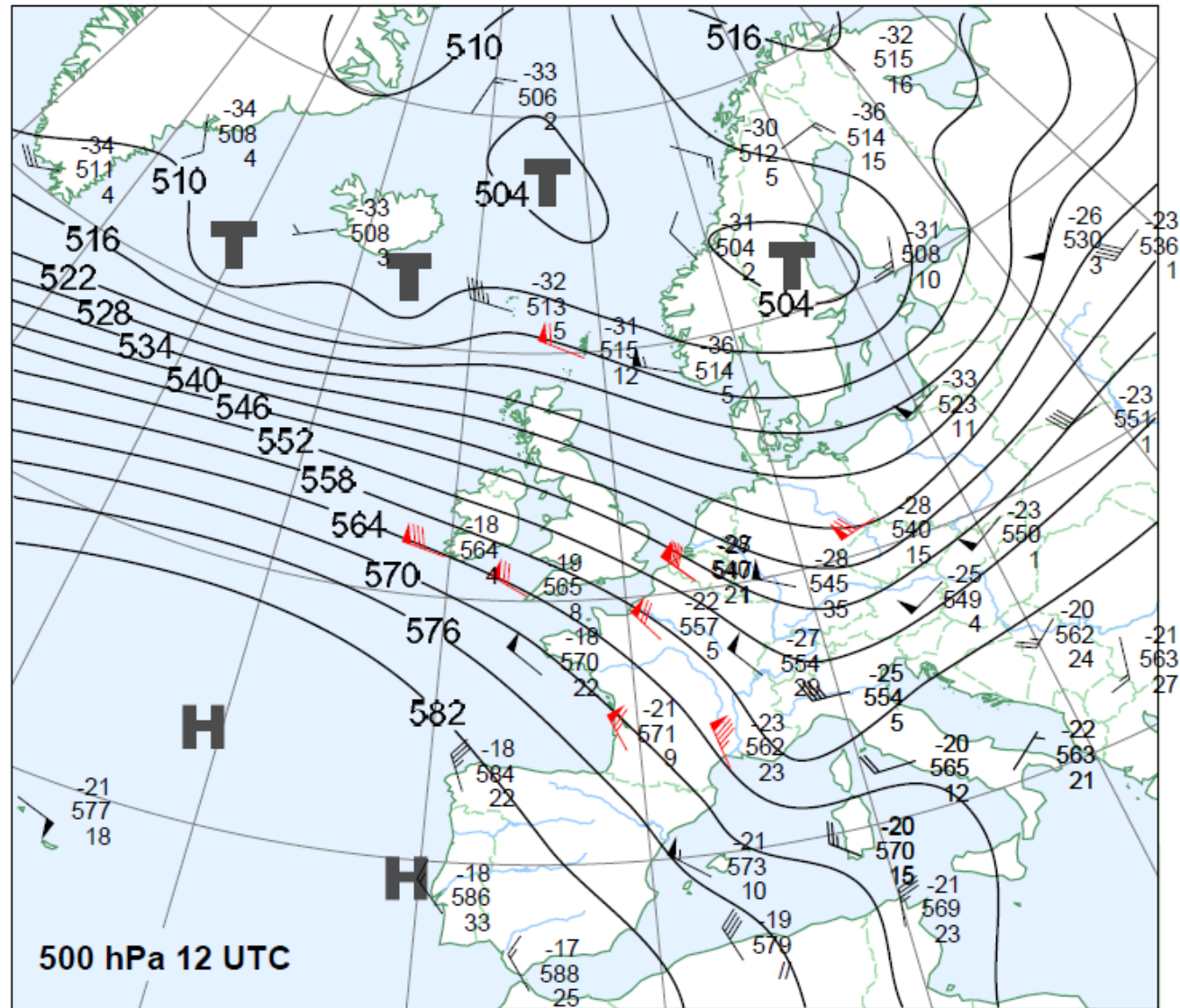
Schweizerische Eidgenossenschaft  
Confédération suisse  
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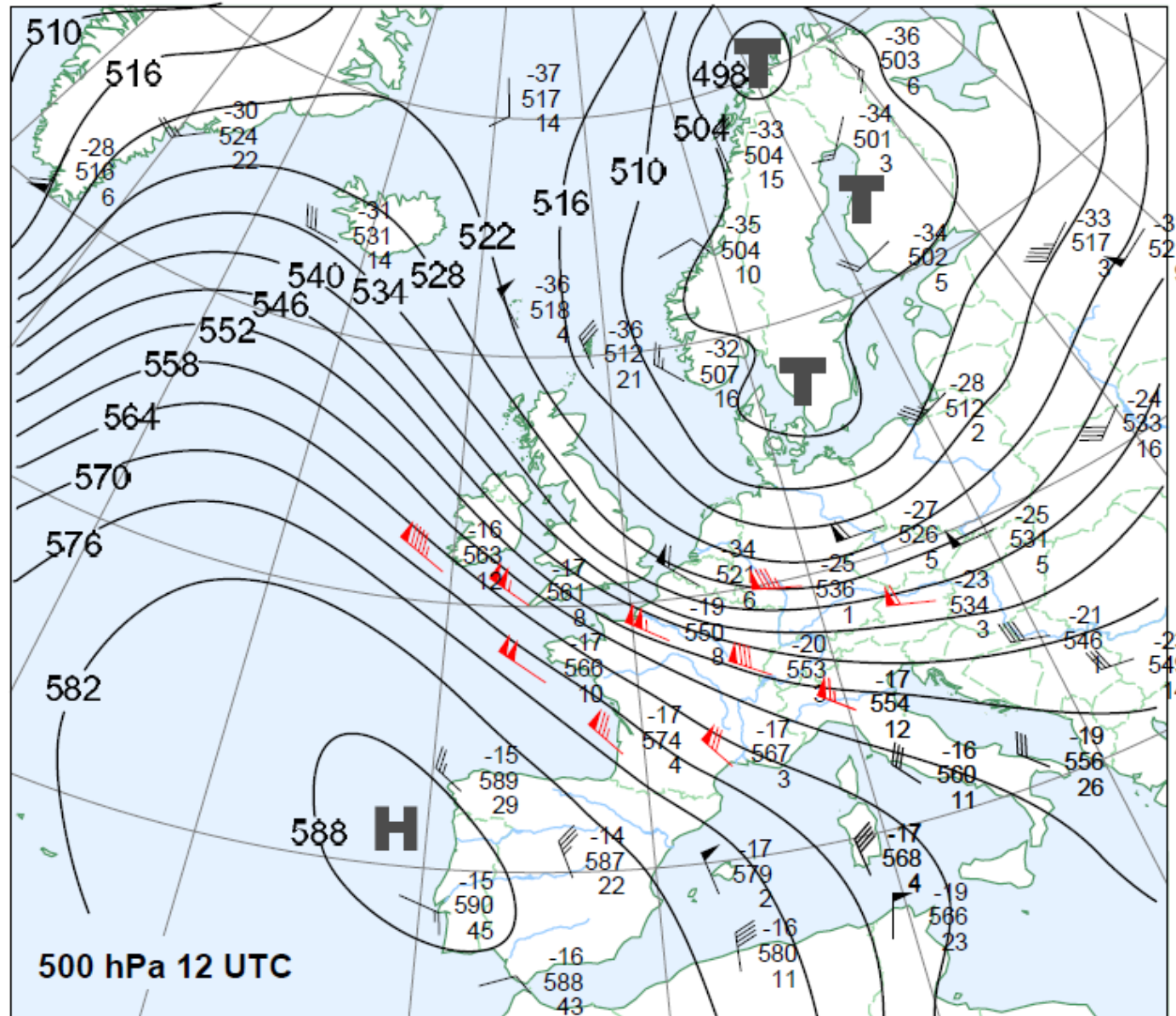


4-5.1.2012



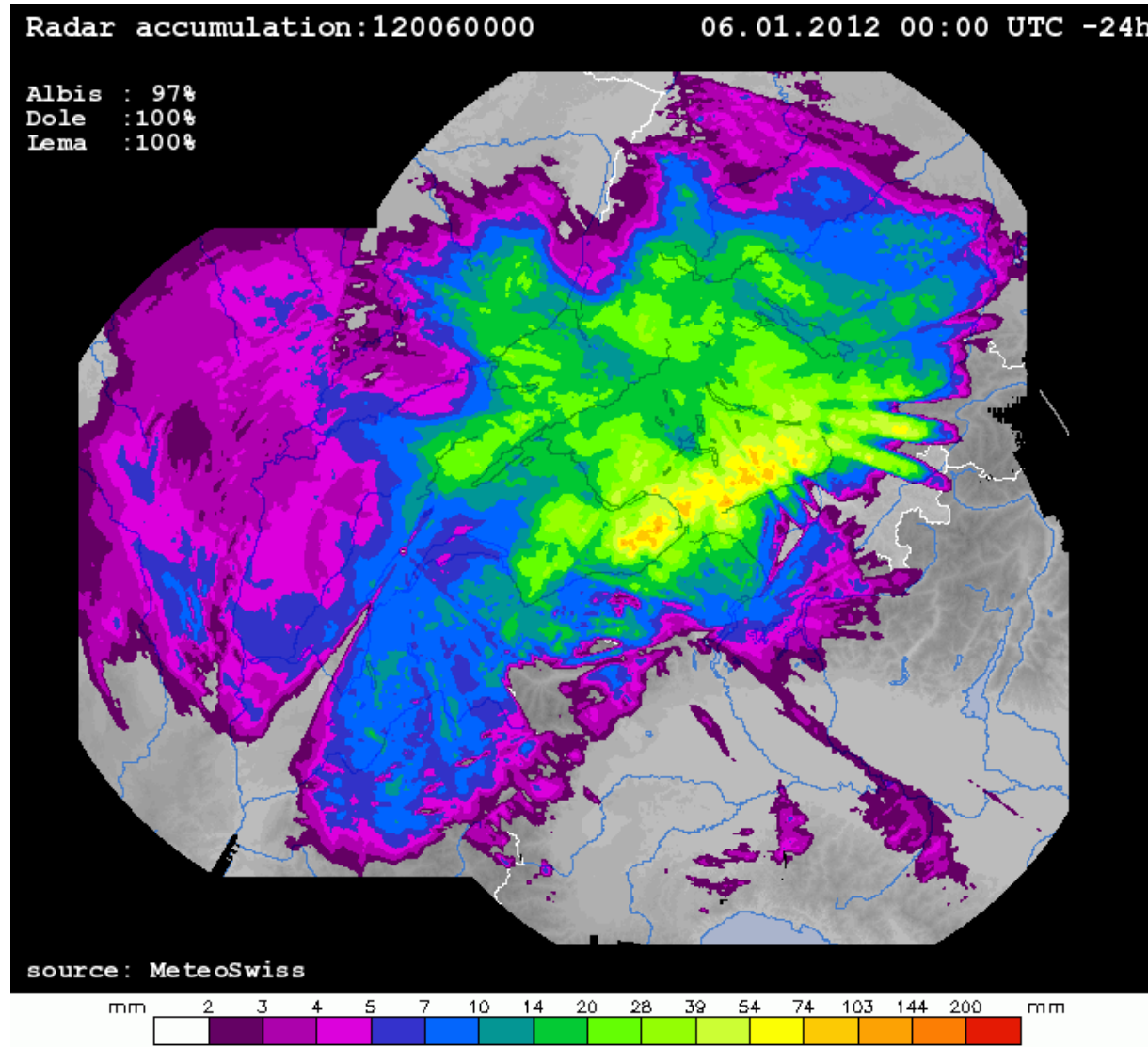


5.1.2012



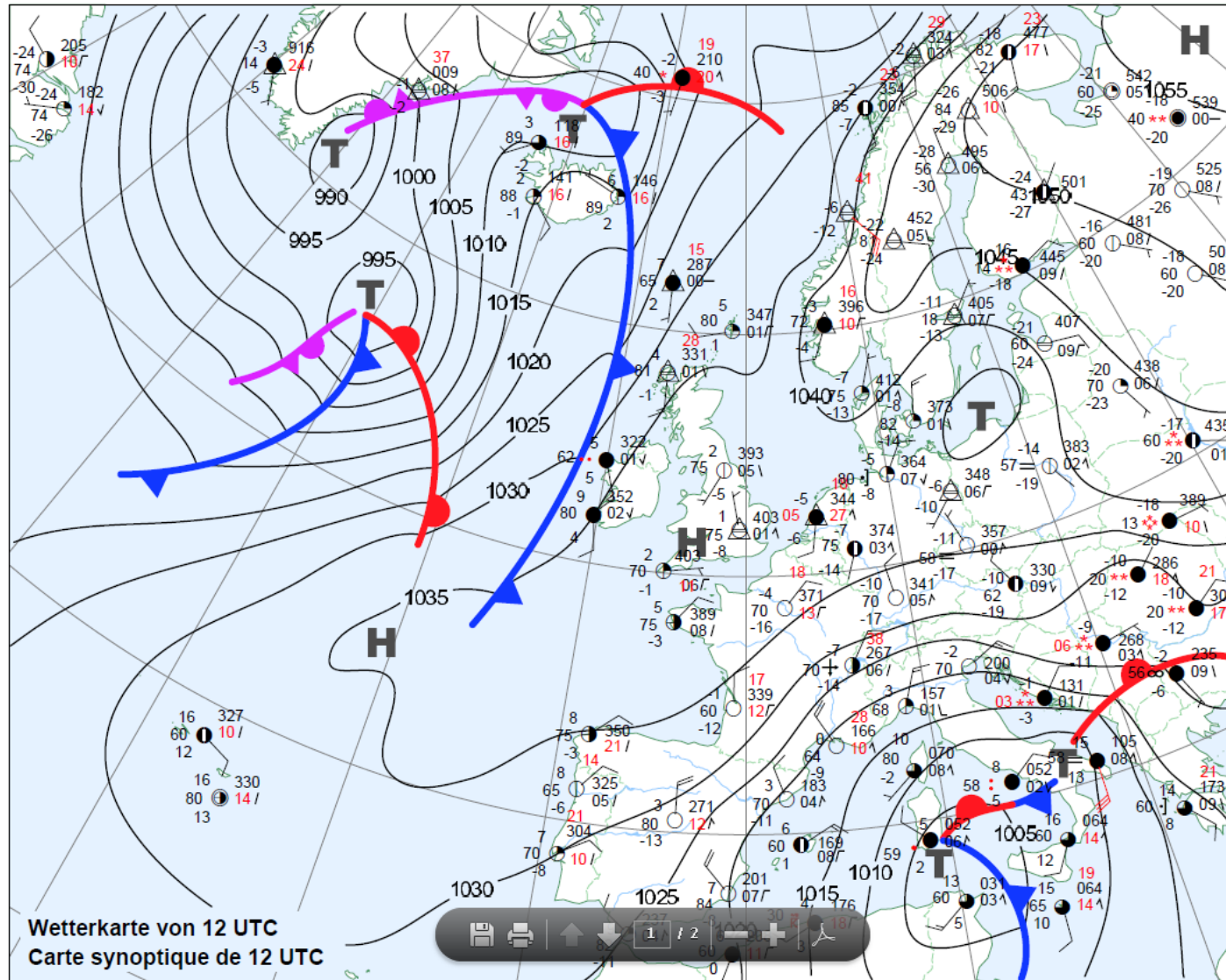


## 5.01.2012: stima precipitazioni radar



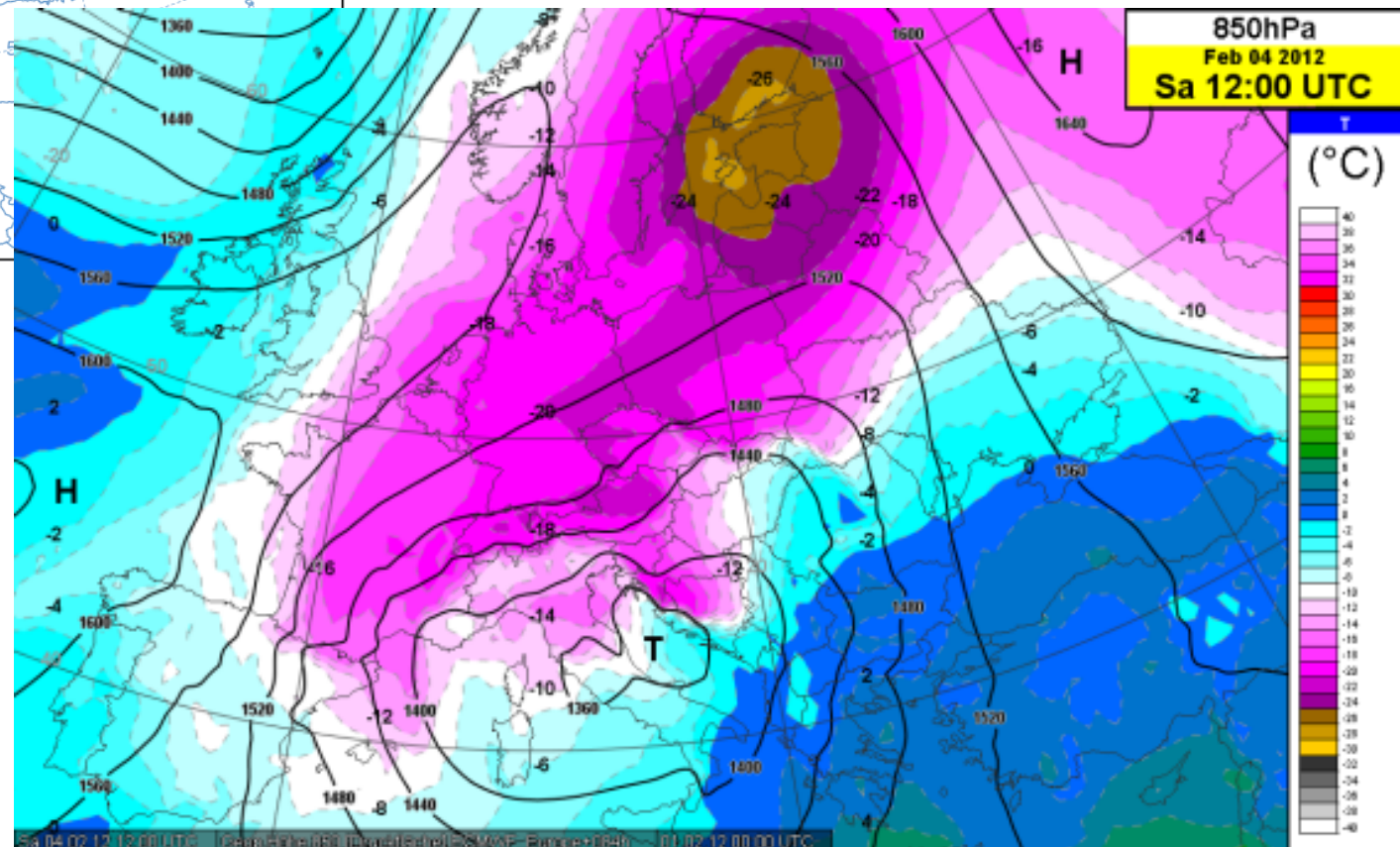
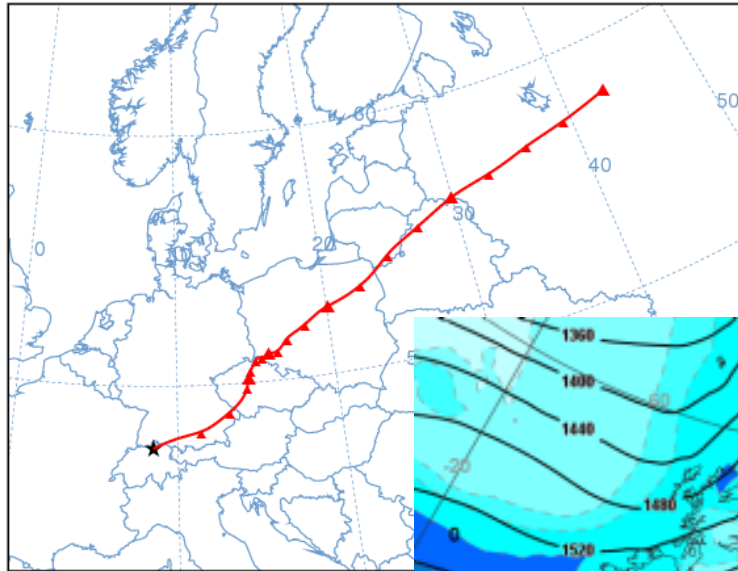


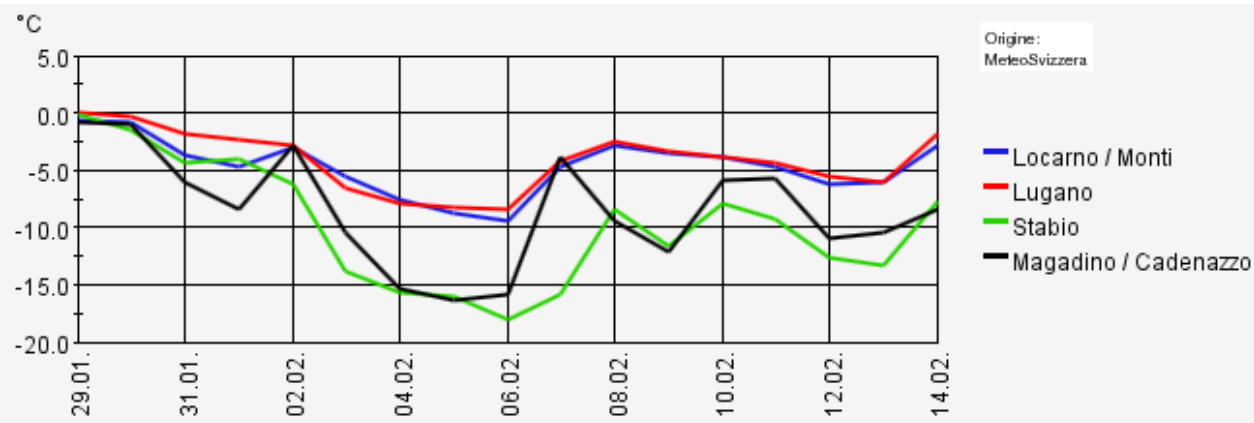
# 31.1-12.2.2012: ondata di freddo



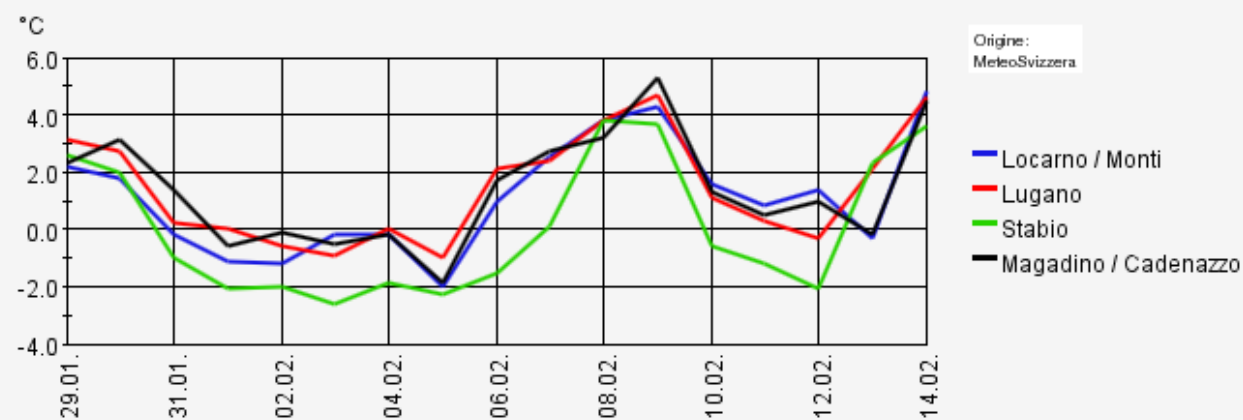


## 31.1-12.2: ondata di freddo

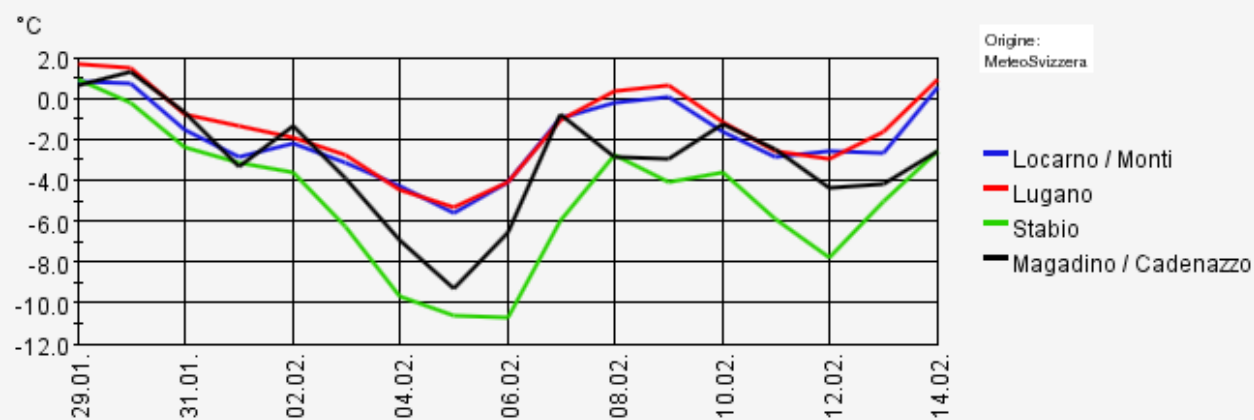




Temperatura dell'aria a 2 m; massima giornaliera [°C] 29.01.2012 - 14.02.2012



Temperatura dell'aria a 2 m; media giornaliera [°C] 29.01.2012 - 14.02.2012





# Record di temperatura?

	Gran San Bernardo	San Bernardino	Roble ROE	Acquarossa	Cimetta s. Locarno	Piotta	Magadino	Locarno-Monti	Lugano	Stabio	Poschiavo	Samaden	Schuls
01.02.2012	-18.9	-11.2	-13.3	-9.3	-11.9	-12.9	-8.4	-4.7	-2.4	-4.1	-10.9	-21.0	-14.0
02.02.2012	-18.7	-16.5	-17.9	-5.8	-12.6	-9.5	-2.8	-3.0	-2.9	-6.3	-10.2	-19.8	-13.9
03.02.2012	-23.4	-19.6	-18.6	-10.6	-14.4	-16.0	-10.5	-5.5	-6.5	-13.8	-16.8	-23.7	-19.0
04.02.2012	-25.2	-20.1	-19.0	-10	-15.8	-12.7	-15.4	-7.5	-8.0	-15.7	-11.7	-26.6	-22.4
05.02.2012	-22.6	-19.8	-19.5	<b>-13.6</b>	-16.2	<b>-18.8</b>	-16.3	-8.7	-8.2	-16.0	-18.2	-29.7	-22.0
06.02.2012	-19.2	-14.7	-11.6	-13.4	-10.3	-11.3	-15.9	-9.5	-8.5	-18.0	-19.2	-35.1	-24.3
<b>Rango del 2012</b>	<b>8</b>	<b>11</b>	<b>3</b>	<b>1</b>	<b>9</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>4</b>
Min. più basso	-28.4	-25.1	-20.7	-12.2	-19.3	-18.3	-16.9	-10.1	-9.0	-18.4	-21.0	-36.9	-25.1
Anno	1986	1985	1991.0	1991	1985	1985	1991	1985	1985	1991	1991.0	1985	1987

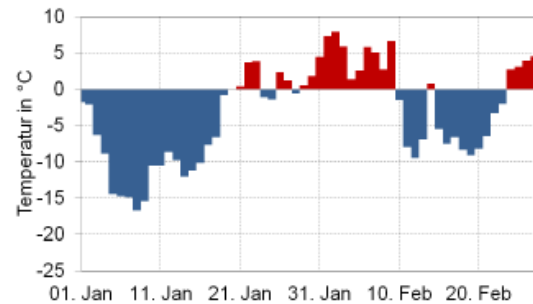
Rango	Data	Temp.	Rango	Data	Temp.
1	12.02.1929	-14.0	16	23.01.1907	-9.5
2	13.01.1926	-12.5	17	24.12.1940	-9.4
3	18.01.1891	-11.8	18	06.01.1947	-9.2
4	16.02.1901	-11.0	19	15.12.1890	-9.2
5	19.02.1895	-11.0	20	07.01.1985	-9.0
6	14.01.1893	-11.0	21	23.01.1933	-9.0
7	10.12.1879	-11.0	22	05.01.1894	-9.0
8	12.02.1956	-10.8	23	01.02.1888	-9.0
9	11.01.1945	-10.8	24	30.12.1939	-8.8
10	14.02.1932	-10.6	25	28.12.1938	-8.8
11	18.01.1887	-10.0	26	31.12.1869	-8.8
12	13.02.1932	-9.8	27	24.01.1963	-8.6
13	30.01.1917	-9.8	28	11.02.1935	-8.6
14	03.01.1905	-9.8	29	<b>06.02.2012</b>	<b>-8.5</b>
15	19.12.1927	-9.6			



# Ondata 2012 e quella del 1985: CH

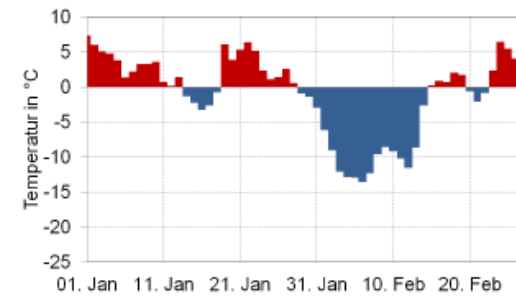
**Zürich 1985**

Tiefstes 14-Tagesmittel: -11.8 Grad



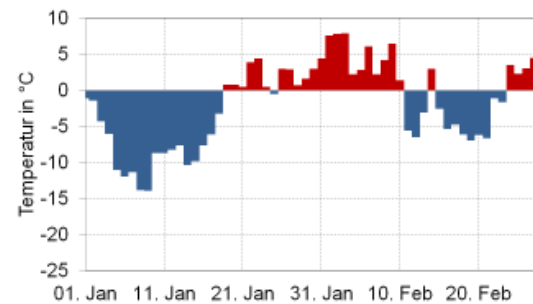
**Zürich 2012**

Tiefstes 14-Tagesmittel: -9.9 Grad



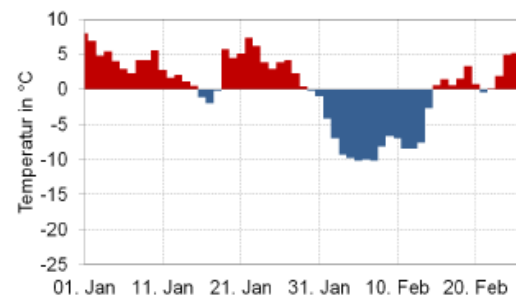
**Neuchâtel 1985**

Tiefstes 14-Tagesmittel: -9.6 Grad



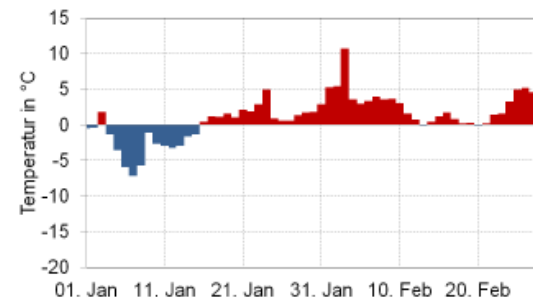
**Neuchâtel 2012**

Tiefstes 14-Tagesmittel: -7.9 Grad



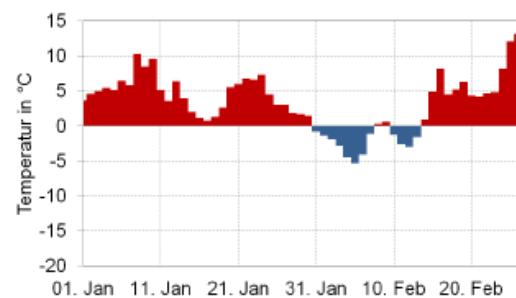
**Lugano 1985**

Tiefstes 14-Tagesmittel: -2.7 Grad



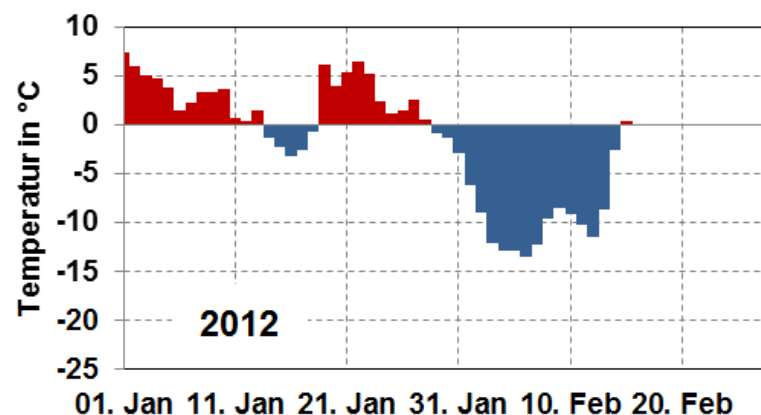
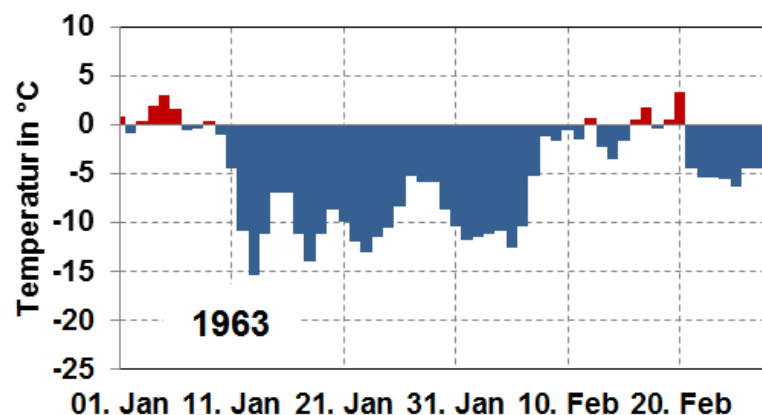
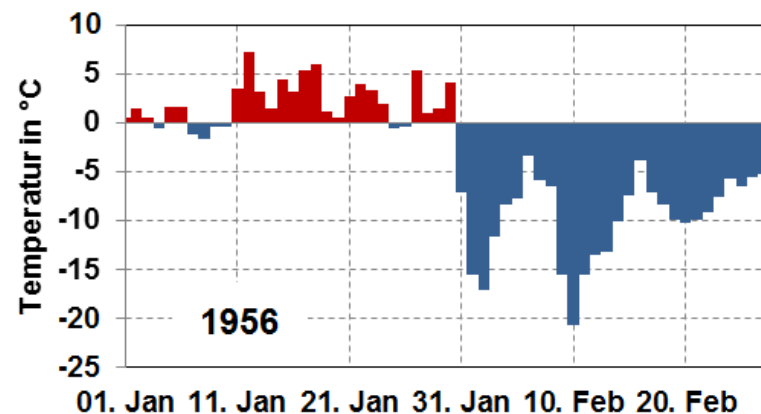
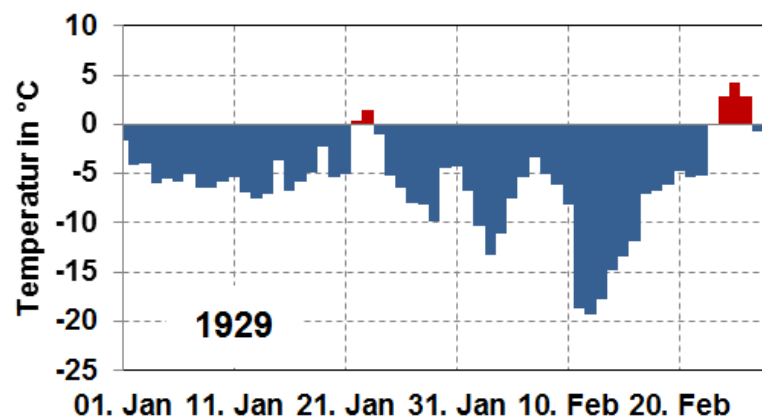
**Lugano 2012**

Tiefstes 14-Tagesmittel: -2.0 Grad





# Ondata 2012 e le altre: CH





# Bise e freddo

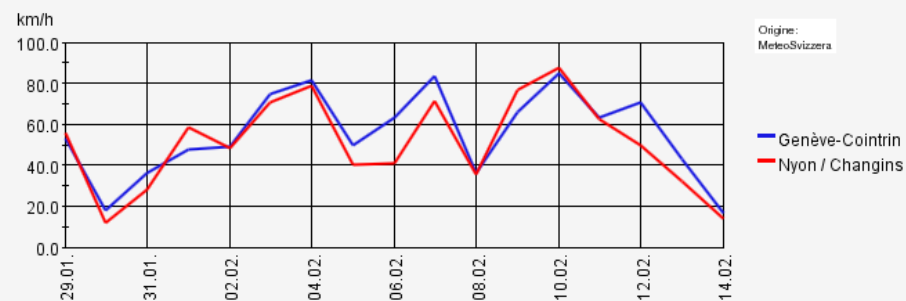


Genève le 04 février 2012  
(matin). Rive gauche  
(Pâquis)  
Les vagues et les embruns  
façonnent une longue vue.

Sur la rade les rafales ont  
atteint plus de 80 km/h avec  
une température sous abri  
de -10°C et un indice éolien  
de de -19 à -22°C



Raffica del vento (su un secondo); massima giornaliera [km/h] 29.01.2012 - 14.02.2012



Velocità del vento scalare; media giornaliera [km/h] 29.01.2012 - 14.02.2012

