Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

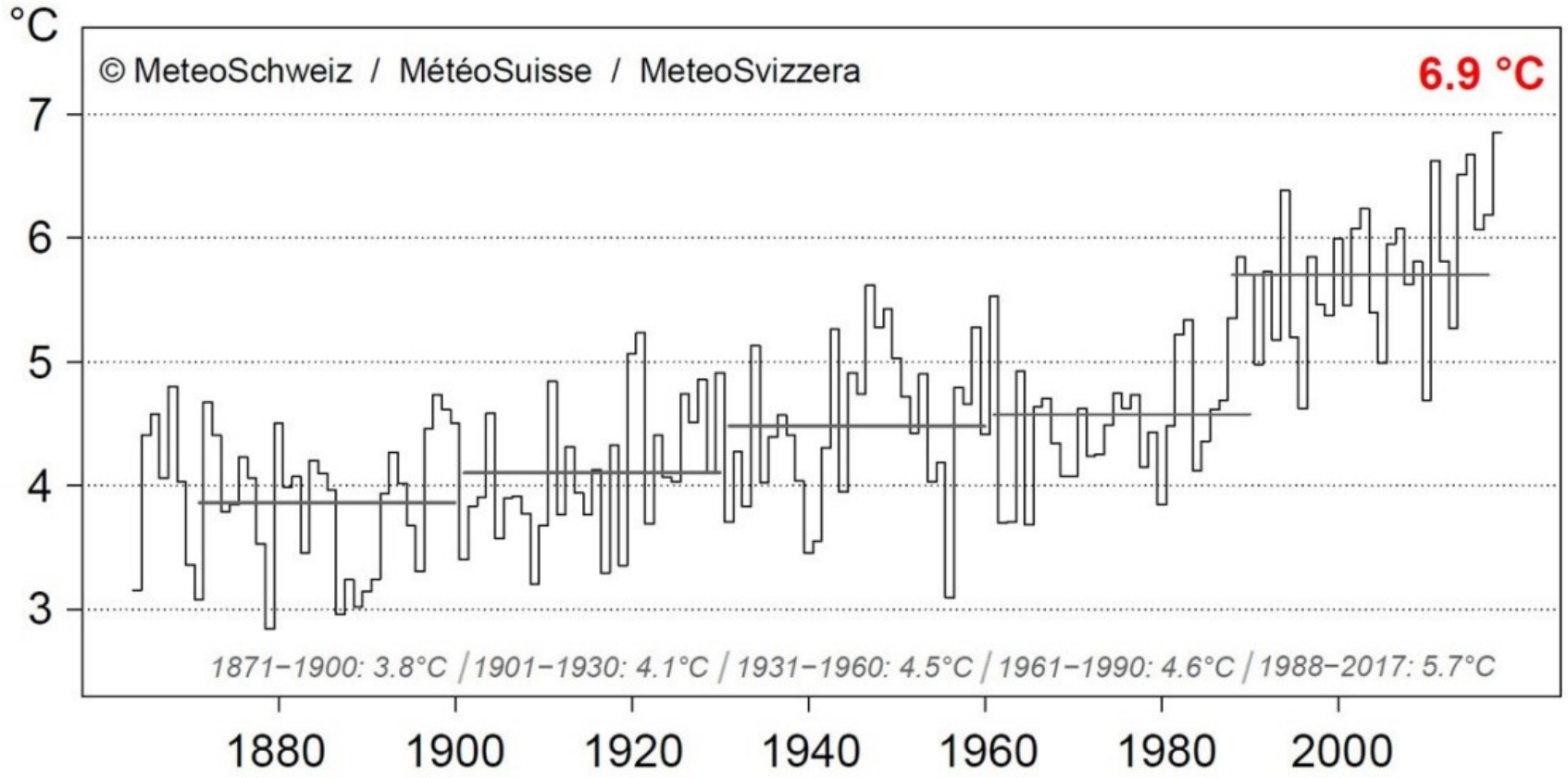
Dipartimento federale dell'interno DFI
Ufficio federale di meteorologia e climatologia MeteoSvizzera

Autunno e prima parte dell'inverno 2018/19

Contenuto

- Anno 2018
- Caratteristiche principali autunno 2018 e prima parte dell'inverno 2018/19
- Strotospheric Warming e freddo polare: alcune spiegazioni

2018: l'anno più caldo dall'inizio delle misurazioni sistematiche.



Nord: 1.5 – 2.0 °C; Sud: 1.0 – 1.5; Media CH: 1.5°

2018: l’anno dei blocchi atmosferici?

2018: una situazione spesso «bloccata»

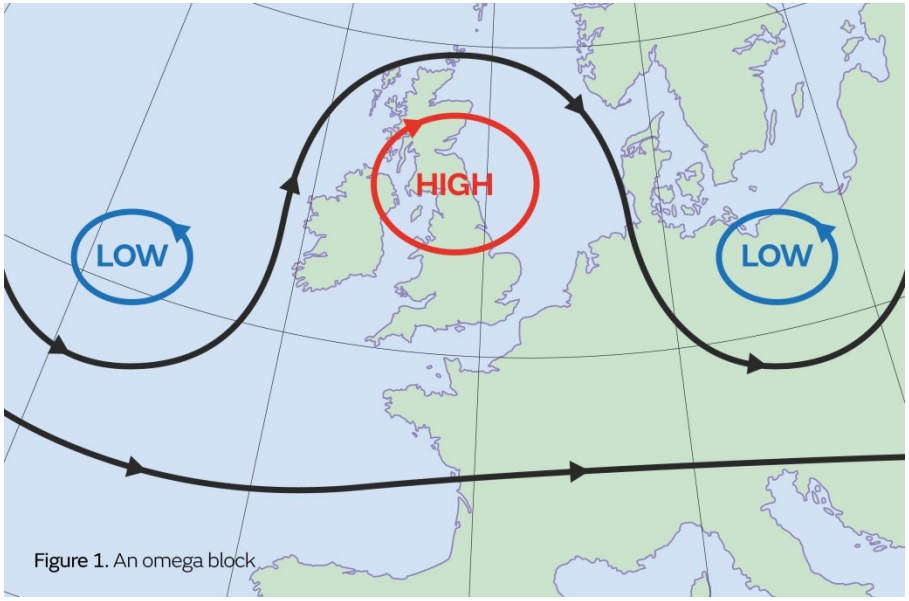


Figure 1. An omega block

Blocco «omega»

Blocco «diffluente»

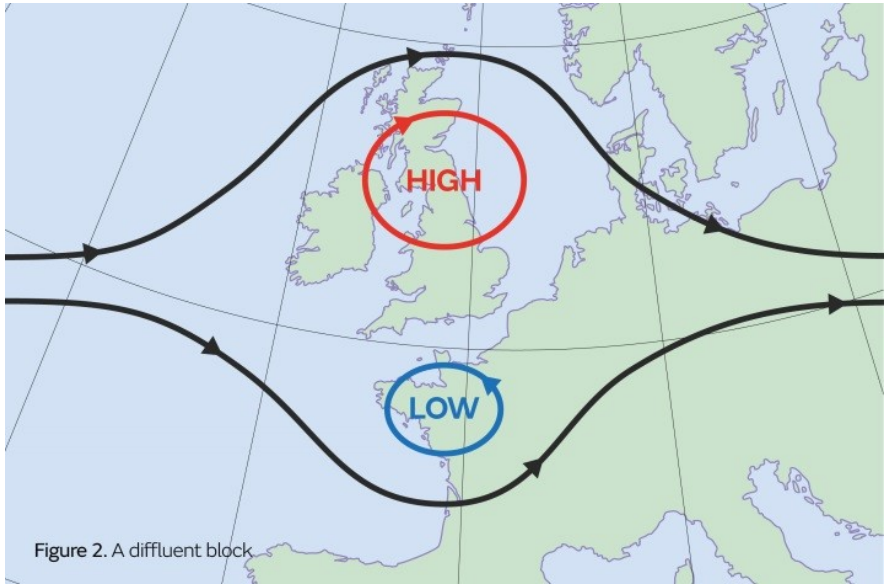
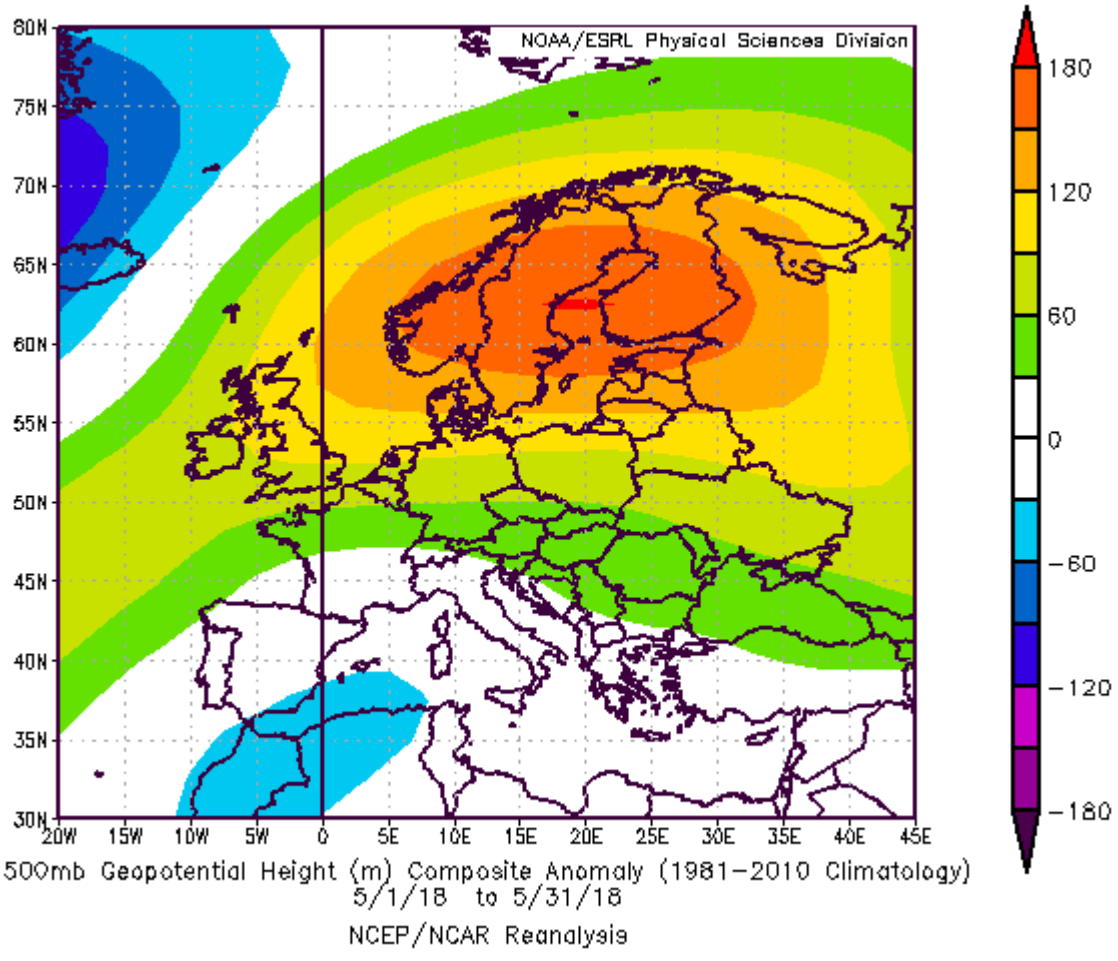
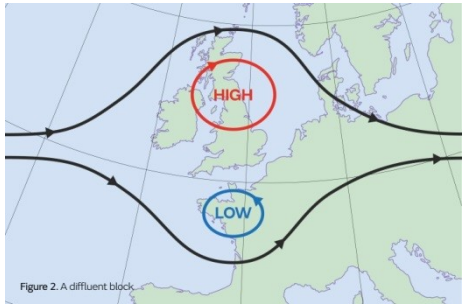


Figure 2. A diffluent block

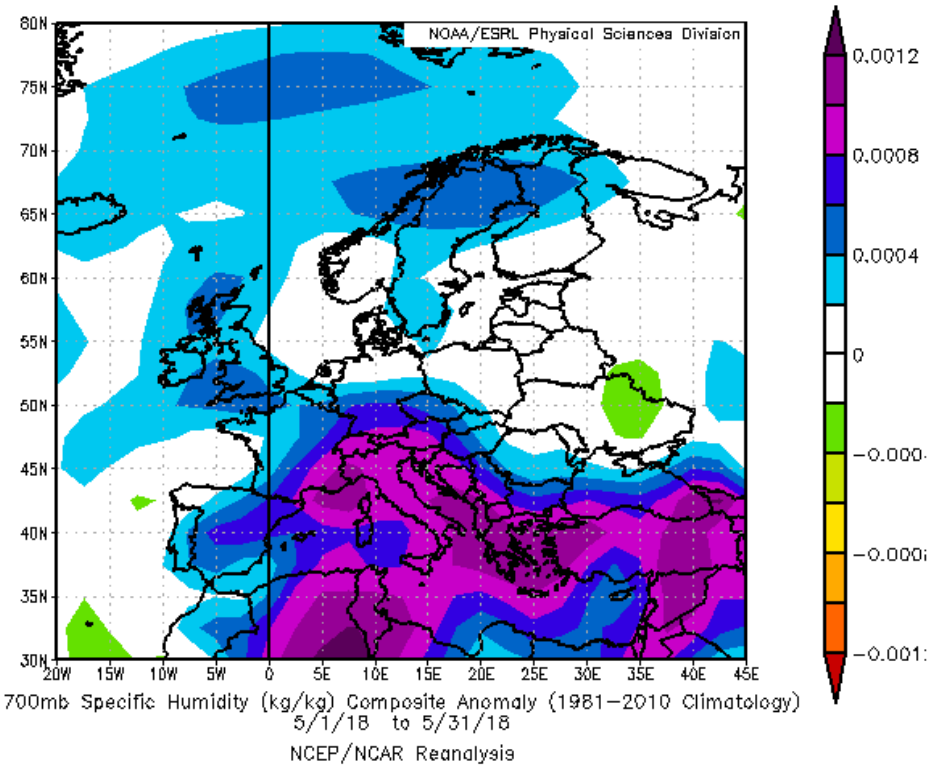
Blocco diffluente durante la stagione «calda»



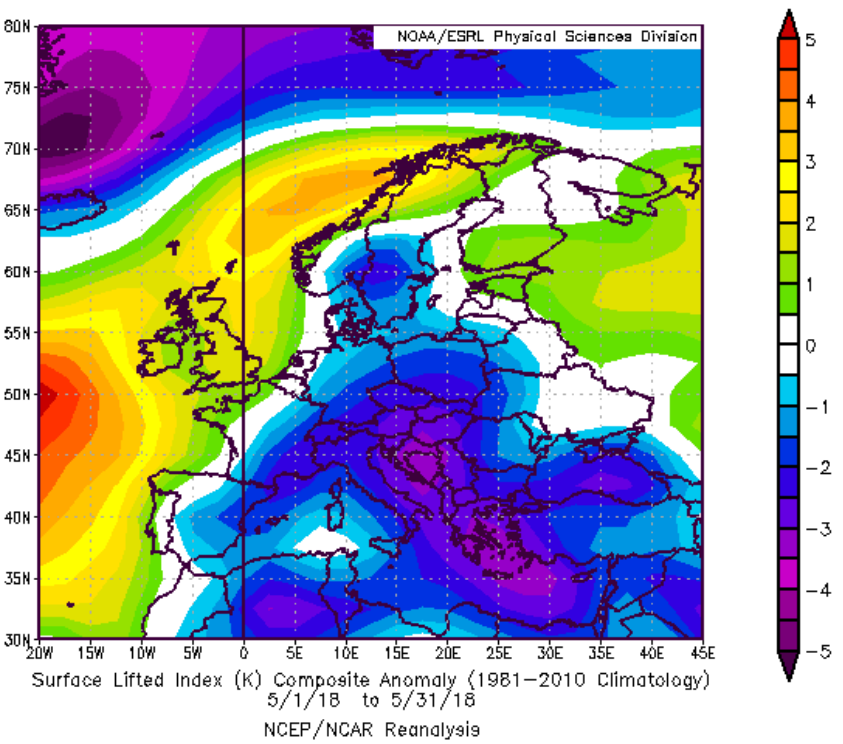


Blocco diffluente durante la stagione «calda»

700 hPa Specific Humidity

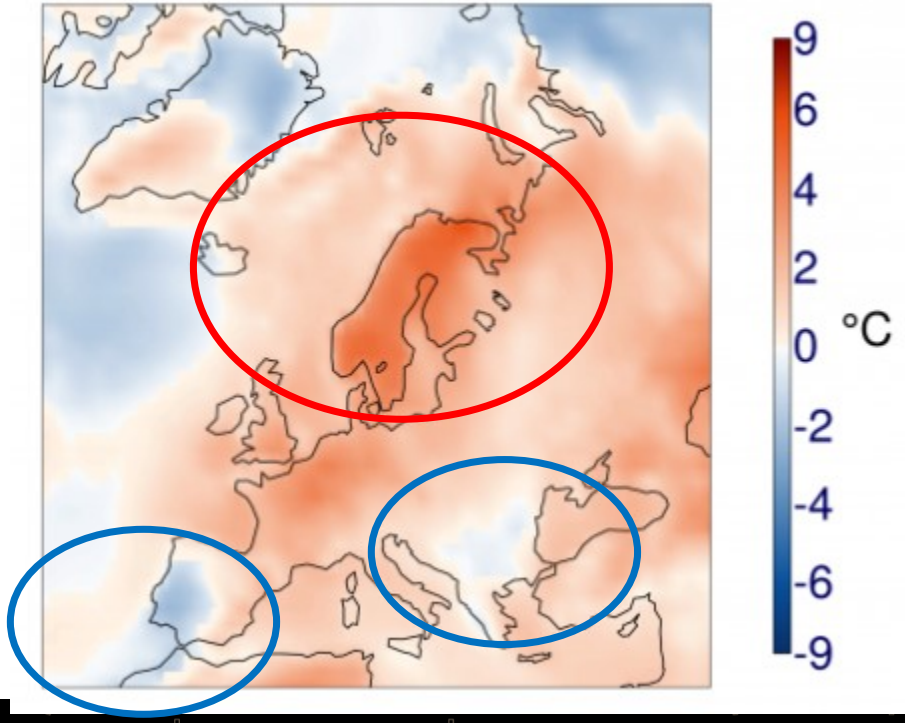


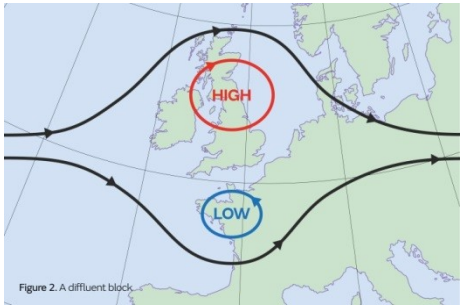
Surface Lifted Index Anomaly



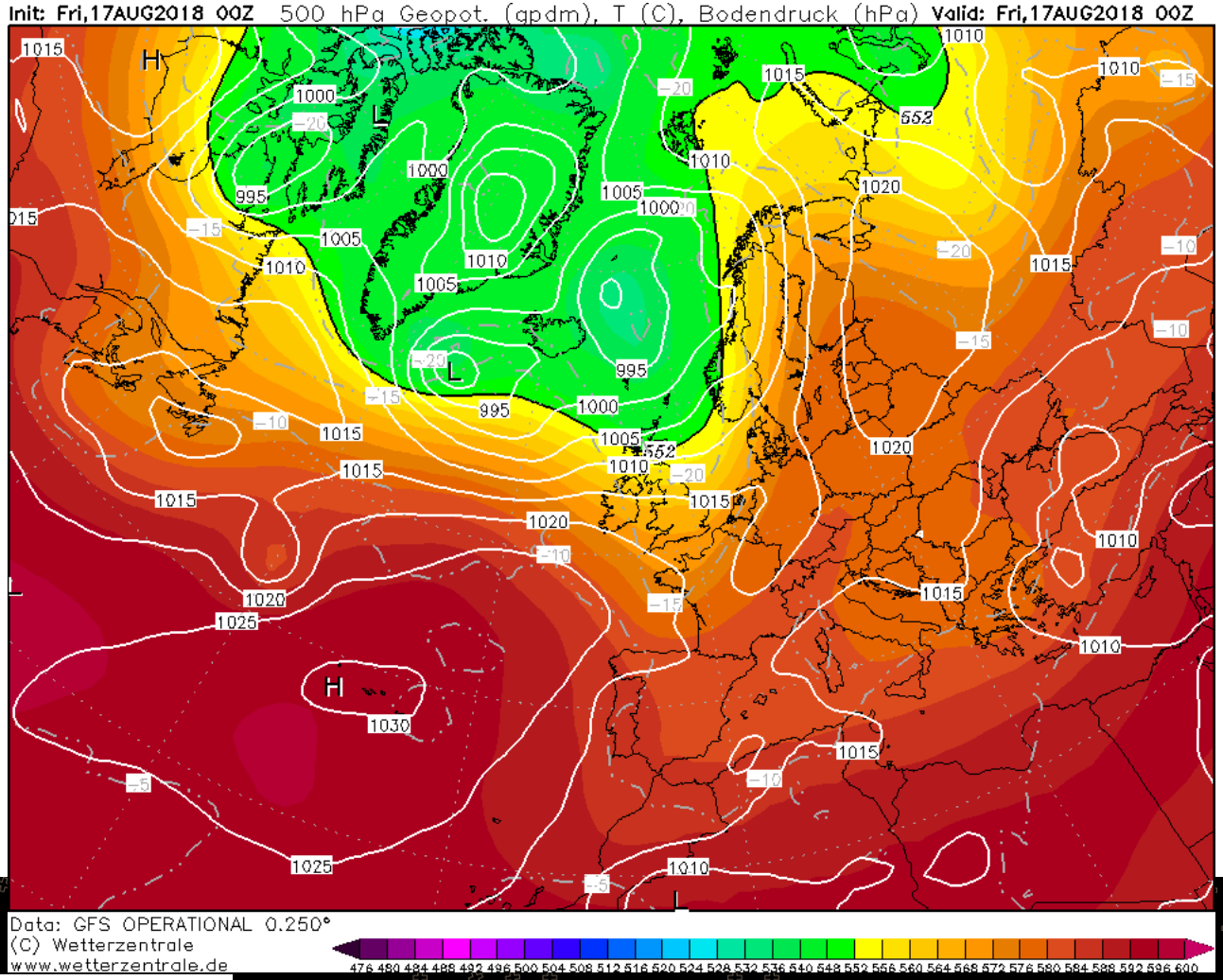
Estate canicolare in Scandinavia

Surface air temperature anomaly for July 2018 relative to 1981-2010

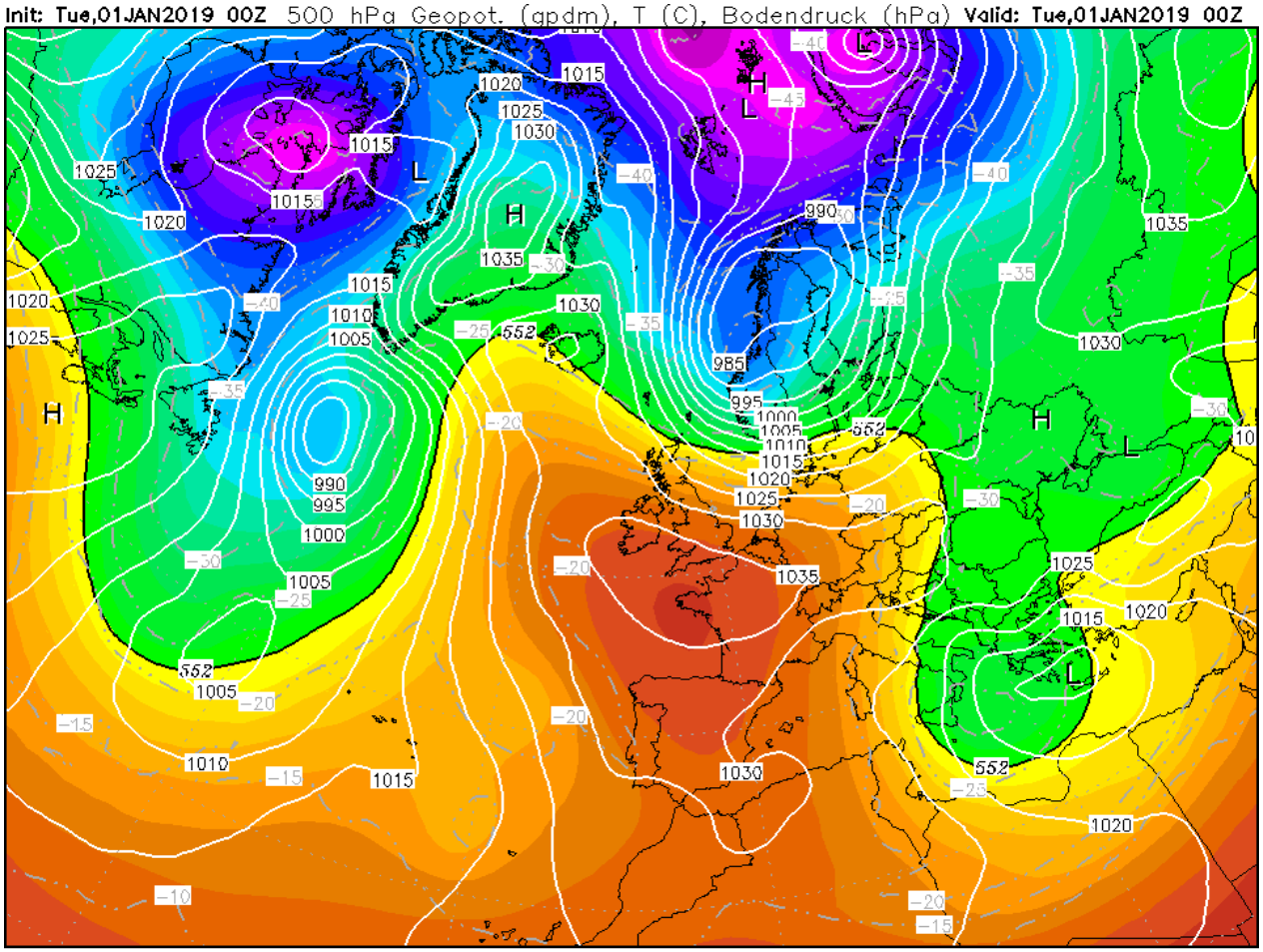


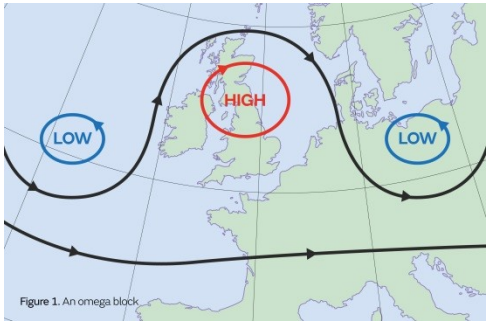


Pochi sistemi frontali degni di nota

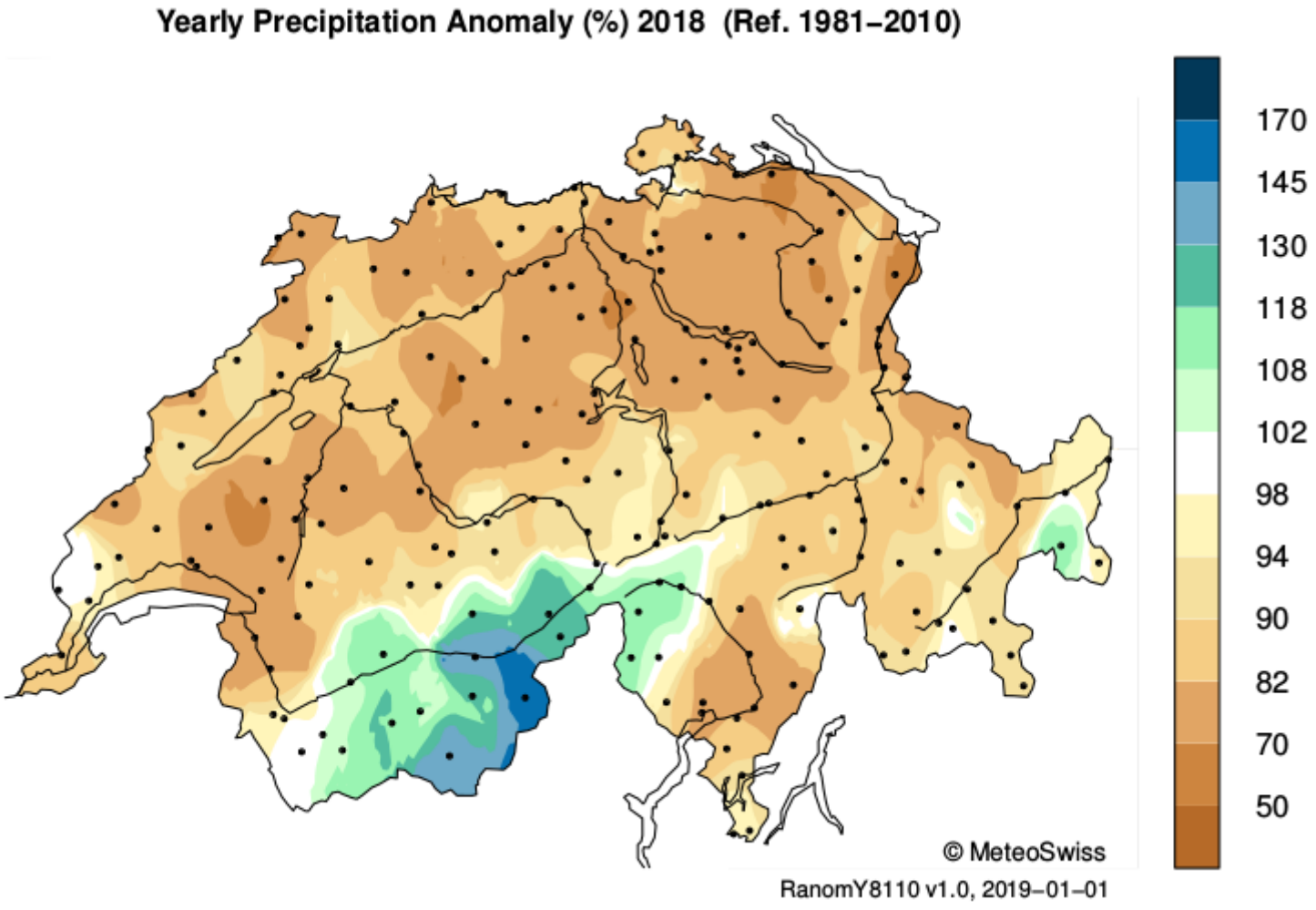


…finale a «omega»

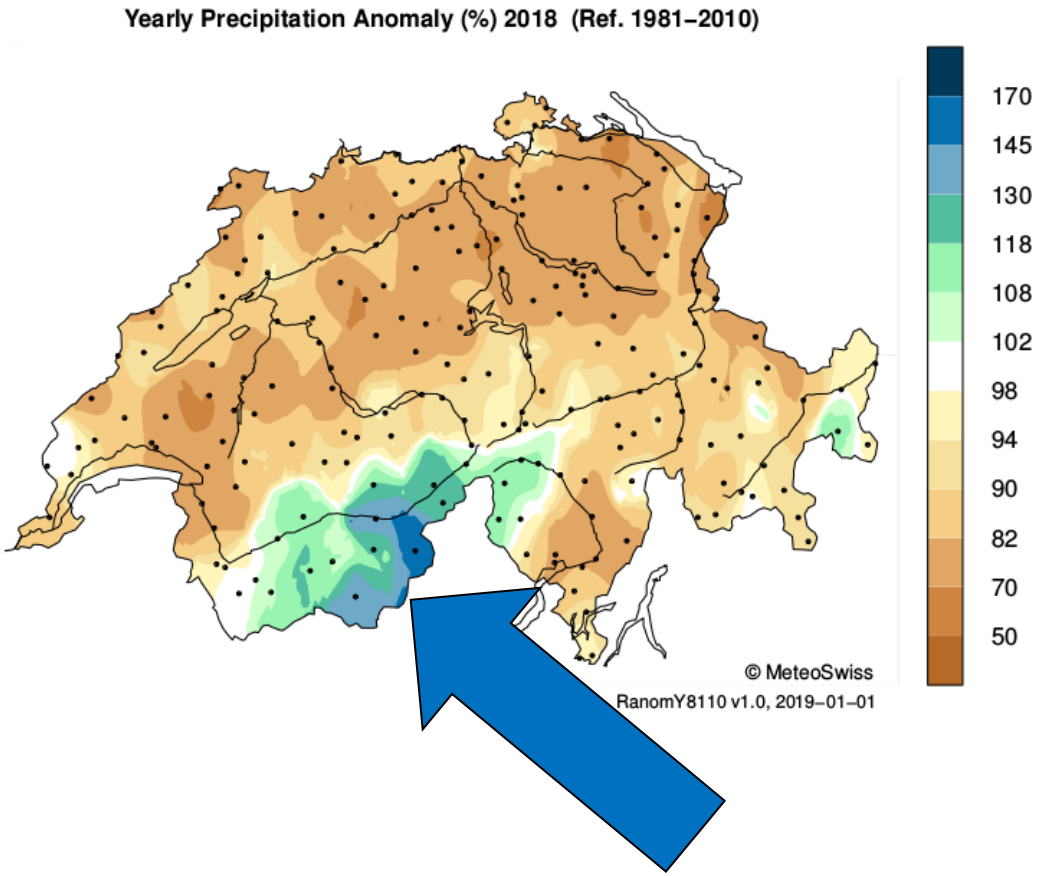


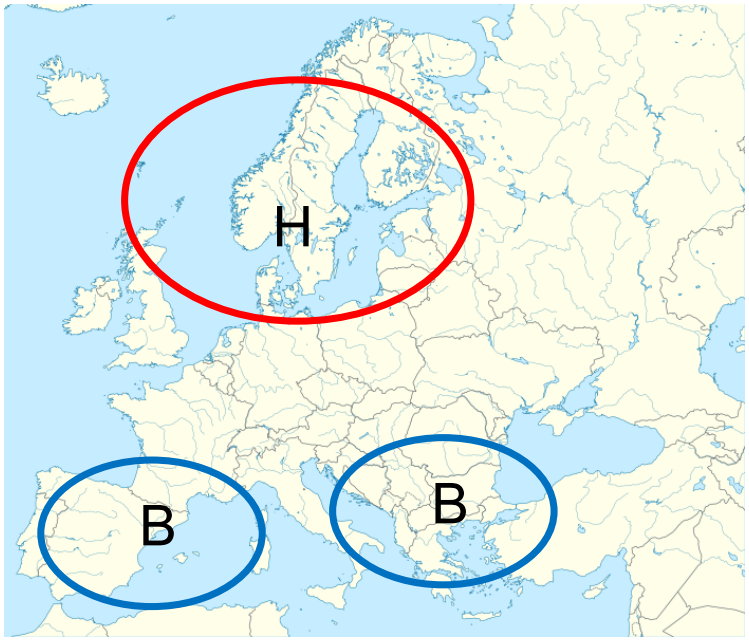


Anomalia Precipitazioni 2018



Anomalia Precipitazioni 2018





Autunno 2018

Anomalie Temperature
Set– Dic 2018

Abweichung vom Temperaturmittel (°C) — September 2018 — Normperiode: 1981 – 2010

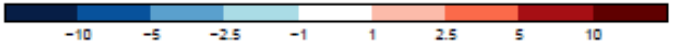
	N/NW–CH				Mittelland West				Mittelland Zentral/Ost								Täler Alpennordhang								Jura			Berglagen								Täler GR				Wallis				Alpensüdseite								
	SHA	RUE	BAS	FAH	GVE	PUY	NEU	BER	WYN	LUZ	BUS	GUT	KLO	TAE	SMA	STG	CHU	VAD	ALT	ENG	ABO	CDF	CHA	DOL	MLS	NAP	PIL	SAE	WFJ	JUN	DAV	SCU	SAM	AND	DIS	ULR	VIS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

−10 −5 −2.5 −1 1 2.5 5 10

Abweichung vom Temperaturmittel (°C) — Oktober 2018 — Normperiode: 1981 – 2010

	N/NW-CH				Mittelland West				Mittelland Zentral/Ost								Täler Alpennordhang								Jura			
	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
1	-2.2	-4.0	-3.0	-4.0	-2.6	-3.6	-3.0	-2.3	-2.3	-2.7	-2.1	-2.0	-2.1	-1.9	-2.7	-3.6	-3.0	-2.9	-2.8	-4.2	-4.8	-4.3	-6.3	-6.7	-7.0	-5.5	-6.3	-6.1
2	-2.9	-4.0	-2.5	-3.7	-2.6	-2.5	-2.6	-2.7	-2.4	-2.2	-2.3	-2.3	-2.6	-2.6	-2.9	-3.7	-2.8	-3.0	-2.6	-3.5	-4.3	-4.4	-5.9	-4.6	-4.9	-5.4	-5.1	-6.6
3	-0.2	-1.1	-1.0	-1.2	0.4	0.5	0.6	0.4	0.4	0.5	0.0	0.0	0.1	0.4	-0.1	-0.6	-0.8	-1.0	0.0	-0.1	0.0	-0.7	-0.9	-0.4	-1.3	-1.0	-1.7	-2.2
4	0.5	0.3	-0.9	0.9	1.4	0.7	1.9	0.3	0.4	0.2	0.4	0.5	0.1	0.3	0.6	-0.3	0.6	0.2	-1.0	0.3	0.9	1.1	1.5	2.1	3.4	0.3	3.9	4.0
5	1.2	3.2	2.7	4.4	0.9	1.4	1.3	2.2	1.2	1.3	1.0	0.1	0.8	0.8	2.0	2.1	3.2	1.8	0.4	2.6	3.4	3.1	5.0	4.7	4.3	4.7	4.9	5.1
6	2.5	5.9	4.3	6.3	3.2	2.8	2.6	2.9	2.5	3.2	2.9	2.1	2.4	2.9	4.0	4.5	5.9	4.5	3.7	3.7	3.3	4.2	3.9	3.2	2.9	4.4	3.5	3.1
7	4.2	3.8	3.8	3.5	2.2	1.5	3.4	2.7	3.3	3.5	3.3	4.3	3.9	3.7	4.2	3.7	4.2	4.1	3.7	2.9	1.9	2.3	1.8	0.1	0.3	2.1	1.1	1.1
8	3.7	1.7	0.6	1.4	2.7	1.8	3.0	2.4	1.5	1.9	2.2	3.3	2.5	1.9	2.1	1.7	3.5	2.2	1.9	1.6	2.0	3.1	3.4	2.7	4.2	1.8	4.8	4.3
9	3.9	2.8	1.5	3.0	2.3	2.6	3.2	3.6	2.6	3.2	2.4	3.9	3.6	3.4	3.2	2.5	2.9	2.0	1.9	1.8	3.4	3.1	5.7	5.5	5.0	4.4	5.3	4.8
10	4.3	3.7	3.9	3.7	1.9	2.3	1.9	2.3	3.0	3.5	3.7	4.3	3.8	3.1	4.1	5.4	6.4	6.2	6.3	6.8	6.7	3.5	6.4	5.9	5.1	6.8	4.6	3.5
11	2.2	3.7	2.5	4.7	4.2	4.0	2.9	2.5	1.3	2.0	1.3	3.5	1.4	1.6	2.7	6.9	6.6	10.1	9.4	6.2	4.7	3.4	5.3	4.5	4.3	5.3	4.1	3.3
12	4.1	6.8	6.2	8.2	4.1	4.7	4.2	4.1	3.2	3.7	3.6	4.1	3.2	3.7	4.9	6.4	6.5	6.9	3.5	4.4	4.4	5.6	5.7	5.1	4.9	6.3	5.4	4.5
13	3.9	6.0	5.7	7.3	3.6	4.2	3.9	3.9	2.7	3.2	2.9	3.9	2.7	3.2	4.4	5.1	6.5	6.1	3.7	4.2	4.6	3.9	7.0	6.2	5.2	6.2	6.2	5.2
14	3.3	5.9	5.5	7.0	3.3	4.1	3.9	3.3	2.2	2.7	2.2	4.0	2.5	2.3	5.0	8.6	6.6	10.6	10.0	7.5	6.7	4.6	5.7	4.5	4.7	6.4	4.9	3.6
15	3.5	5.8	3.6	5.4	3.1	4.5	3.5	2.4	1.9	3.0	2.3	3.0	2.1	2.2	5.2	7.9	6.6	9.2	9.2	7.1	5.5	3.0	5.4	5.1	3.9	5.9	3.5	2.1
16	2.9	5.2	3.3	5.4	4.0	4.9	3.6	2.5	1.8	2.2	1.9	2.2	1.5	1.4	4.0	5.1	4.1	5.4	3.9	3.4	3.6	3.2	5.5	5.4	4.0	5.0	3.5	2.6
17	3.4	4.8	2.5	4.8	1.9	3.1	3.3	1.7	1.1	2.2	1.5	2.6	1.3	1.5	3.2	3.5	3.3	3.9	0.6	2.7	3.1	2.2	4.6	4.6	3.9	4.1	4.2	3.6
18	4.5	4.6	1.7	4.1	2.8	3.6	4.7	2.7	2.4	2.2	2.3	4.0	2.7	2.1	3.3	2.4	2.0	0.9	0.6	2.2	3.2	4.3	3.9	3.5	5.0	2.5	3.4	3.0
19	3.3	2.4	1.0	2.3	1.8	2.7	3.3	1.4	0.8	1.0	0.9	1.9	0.8	0.7	1.3	0.5	1.7	0.6	0.7	1.1	3.6	3.5	3.8	4.9	5.3	3.5	5.2	5.0
20	2.1	2.3	0.0	2.0	1.1	1.8	3.5	2.1	2.5	1.7	2.1	2.0	2.2	2.0	2.3	1.3	0.5	0.6	1.6	0.6	2.6	2.1	3.9	5.0	4.5	2.4	4.4	3.3
21	0.9	0.6	-0.4	0.8	1.2	1.2	2.0	0.2	-0.6	0.4	-0.4	1.2	-0.3	-0.4	0.0	-0.5	-0.7	-1.3	-0.4	-0.4	1.6	1.9	4.1	3.7	4.6	0.9	3.3	1.3
22	0.1	-0.7	-1.8	-0.6	1.9	0.0	0.9	-0.8	-0.9	-1.5	-1.7	-1.1	-1.5	-3.0	-1.6	-2.6	-2.2	-2.8	-1.8	-2.5	-0.7	-0.7	0.6	2.0	1.8	-1.1	0.4	0.0
23	1.0	0.1	0.5	0.8	1.1	1.0	1.8	0.4	-0.2	0.4	0.4	1.0	0.1	0.5	0.3	0.5	0.3	0.0	-0.3	0.6	1.1	0.2	1.5	2.8	2.5	1.6	1.9	0.1
24	3.2	2.1	2.7	0.4	2.7	4.0	3.7	3.8	3.7	3.5	3.1	3.7	3.4	3.8	2.9	2.3	1.8	1.4	3.5	2.3	2.9	0.6	2.2	3.9	3.2	2.2	2.4	1.0
25	3.0	2.0	1.6	0.0	2.1	2.2	2.7	2.1	3.0	2.9	2.7	2.8	2.1	2.7	2.8	2.8	3.9	3.1	1.5	2.2	3.8	1.2	5.2	6.5	5.7	4.3	4.8	3.0
26	2.0	-0.1	0.8	-0.9	2.3	1.9	1.6	0.3	0.7	1.9	1.2	1.4	1.9	2.3	1.7	1.3	1.6	0.2	0.8	2.6	3.7	0.9	3.2	3.4	3.0	3.2	3.2	2.5
27	-2.5	-4.4	-3.2	-4.2	-1.1	-2.1	-2.4	-2.3	-2.0	-1.8	-2.3	-1.9	-2.1	-1.9	-2.9	-3.4	-3.2	-2.5	-2.0	-3.0	-4.1	-3.9	-4.8	-4.4	-4.9	-5.7	-4.5	-4.0
28	-4.7	-6.4	-4.5	-5.7	-4.0	-5.4	-4.8	-4.9	-4.1	-4.7	-4.8	-4.5	-4.8	-4.7	-5.9	-6.0	-7.4	-5.5	-4.8	-5.5	-5.6	-5.8	-7.3	-5.5	-2.3	-7.3	-1.7	-0.2
29	-2.6	-4.2	-3.9	-5.2	-3.8	-4.6	-3.6	-3.5	-2.4	-2.9	-2.9	-1.9	-2.6	-2.3	-3.5	-3.2	-4.5	-1.9	-1.8	-3.2	-3.0	-4.3	-1.5	-2.8	-0.4	-4.3	0.4	0.6
30	-3.3	-3.1	-3.0	-4.0	-3.7	-3.6	-3.3	-3.4	-2.9	-3.0	-3.1	-2.3	-2.8	-2.7	-3.4	-2.2	0.1	-0.9	-2.0	-3.6	-4.2	-4.4	-5.5	-6.2	-6.4	-5.8	-4.1	-3.2
31	-2.1	-1.7	-2.2	-2.3	-2.2	-1.5	-3.0	-3.8	-3.6	-2.5	-2.7	-1.5	-2.9	-3.2	-2.2	3.3	2.9	5.0	6.4	3.6	2.8	-0.8	1.4	0.3	0.8	2.3	0.9	-0.1
Mitt.	1.4	1.4	0.9	1.4	1.2	1.2	1.4	0.9	0.7	0.9	0.7	1.4	0.8	0.8	1.3	1.7	1.8	2.0	1.7	1.4	1.7	1.0	2.1	2.1	2.1	1.6	2.2	1.6

	Täler GR					Wallis					Alpensüdseite									
	JUN	DAV	SCU	SAM	AND	DIS	ULR	VIS	SIO	MVE	ZER	ROB	SBE	CIM	PIO	COM	OTL	LUG	SBO	
1	-6.7	-4.4	-2.6	-2.9	NaN	-4.6	-2.5	-2.1	-1.8	-4.6	-3.6	-0.4	-3.2	-3.4	-1.6	0.2	-0.2	-0.2	-0.2	1
2	-2.5	-4.4	-2.5	-2.3	NaN	-4.2	-2.3	-3.0	-2.8	-5.2	-4.7	-0.6	-2.1	-1.0	0.4	1.5	0.5	-0.2	-0.8	2
3	1.2	-0.6	-1.0	-0.7	NaN	-1.3	0.3	-2.4	0.1	-1.8	-1.8	2.0	1.4	3.8	3.1	2.9	0.9	-0.2	-1.5	3
4	1.6	1.2	0.2	-0.8	NaN	1.6	1.1	0.0	1.8	1.8	2.1	-0.1	-0.1	1.7	0.7	1.0	2.0	1.0	-0.1	4
5	3.0	2.8	2.9	0.4	NaN	3.7	2.0	3.5	2.7	4.3	3.4	0.2	0.4	2.1	0.8	1.1	2.0	1.1	0.3	5
6	1.0	3.4	3.2	1.7	NaN	3.4	1.7	4.0	3.2	3.3	2.6	1.3	0.1	0.3	0.2	0.9	0.9	1.2	1.2	6
7	0.1	2.7	2.3	1.7	NaN	3.4	1.3	0.3	1.6	0.5	2.1	1.5	1.9	2.3	1.3	1.8	2.1	1.4	0.8	7
8	1.8	3.3	3.1	2.4	NaN	3.9	3.0	1.0	2.6	3.5	4.0	2.7	2.4	3.2	2.5	3.7	4.1	3.5	2.8	8
9	4.6	3.6	3.6	2.0	NaN	4.4	2.1	2.7	3.1	4.6	3.6	3.2	2.7	2.9	2.7	3.8	4.2	3.5	2.9	9
10	2.3	3.9	4.4	2.1	NaN	5.1	2.7	5.5	5.6	4.2	4.3	2.5	2.5	1.2	2.6	3.2	2.5	2.9	3.4	10
11	4.7	4.1	3.8	2.4	NaN	4.2	2.3	5.9	6.1	4.0	2.5	2.0	1.6	0.0	1.9	1.5	0.6	0.9	1.8	11
12	4.4	4.5	4.8	2.9	NaN	5.3	3.1	3.7	4.6	4.4	3.5	2.7	2.8	3.3	2.3	3.0	3.0	3.1	4.0	12
13	4.1	4.7	4.7	2.2	NaN	6.0	2.9	4.8	3.8	5.9	4.3	3.0	3.1	4.1	3.2	3.4	3.8	3.1	2.6	13
14	2.3	3.0	3.8	1.5	NaN	4.5	2.0	7.1	5.4	4.5	2.5	3.1	2.2	1.8	2.8	3.2	3.0	2.5	1.7	14
15	-1.0	3.4	4.6	3.6	NaN	4.7	1.6	5.5	4.1	3.5	1.8	2.5	1.7	0.6	1.4	2.0	2.2	2.7	2.4	15
16	3.6	1.9	2.2	1.5	NaN	3.7	1.8	4.6	3.8	3.9	2.1	2.1	1.7	1.6	2.1	2.4	3.0	2.7	2.4	16
17	4.7	2.3	2.5	1.1	NaN	3.6	1.6	2.3	3.3	3.8	2.9	1.5	1.6	3.0	2.4	2.5	3.1	3.0	3.2	17
18	5.4	2.6	2.6	1.2	NaN	3.5	2.6	2.1	3.1	4.1	3.9	2.2	2.4	4.3	2.3	3.5	3.9	3.4	3.0	18
19	4.7	2.9	2.8	1.2	NaN	3.1	2.0	1.6	2.9	3.7	3.6	2.7	3.4	4.8	2.7	3.7	4.5	3.8	3.1	19
20	3.5	1.9	2.3	1.0	NaN	2.2	1.9	1.0	2.2	2.7	3.5	2.5	5.4	5.3	2.8	3.4	4.8	4.2	2.6	20
21	2.8	0.1	-0.1	-0.6	NaN	0.0	0.3	-0.5	1.2	1.7	2.4	3.8	4.8	5.4	4.4	5.0	2.6	2.5	1.7	21
22	4.0	-1.9	-1.1	-1.2	NaN	-1.6	-1.0	-2.3	-0.4	-0.7	0.7	-0.3	2.8	0.4	0.8	0.6	1.3	0.7	-0.7	22
23	2.0	0.8	2.2	1.4	NaN	0.0	1.0	-1.0	0.5	1.6	0.7	4.4	5.2	5.9	6.8	3.8	1.1	0.3	-1.1	23
24	3.1	2.7	3.2	6.7	NaN	1.1	5.0	4.6	4.3	5.9	4.5	11.9	7.8	8.6	9.0	12.6	11.1	8.0	9.0	24
25	4.2	3.4	3.7	2.6	NaN	3.1	1.7	0.6	2.3	2.7	3.0	6.4	6.8	7.8	5.8	6.2	7.3	6.3	5.2	25
26	3.4	3.0	3.3	2.1	NaN	4.4	1.5	0.8	1.9	3.6	3.4	2.7	2.2	2.1	2.8	4.4	4.4	4.7	4.6	26
27	-4.1	-2.4	-1.4	1.0	NaN	-3.9	-0.9	-1.1	0.0	-2.7	-1.3	2.3	0.7	1.3	0.0	1.9	2.0	3.2	3.9	27
28	-5.6	-2.5	-3.5	-1.0	NaN	-5.6	-1.9	-2.1	-1.3	-3.3	-1.4	0.6	-1.9	0.6	-1.9	-0.8	-1.0	1.7	3.4	28
29	-3.0	-0.3	-1.7	0.9	NaN	-2.7	-0.9	0.5	-0.2	-0.7	-1.0	2.0	-0.5	-0.3	-0.4	0.8	0.3	2.0	3.5	29
30	-4.2	0.1	1.0	0.4	NaN	-1.2	-1.1	-0.2	-1.7	-3.6	-2.1	-0.1	-2.4	-4.0	-1.2	-0.4	-1.2	0.1	0.6	30
31	-2.9	1.7	0.5	0.7	NaN	0.7	-0.2	3.3	3.1	0.1	-0.2	-0.5	-1.9	-3.2	-1.0	-0.6	-1.6	-0.8	0.2	31
Mitt.	1.5	1.5	1.7	1.1	NaN	1.6	1.1	1.6	2.1	1.8	1.7	2.3	1.8	2.1	2.0	2.7	2.5	2.3	2.1	Mitt.



Abweichung vom Temperaturmittel (°C) — November 2018 — Normperiode: 1981 – 2010

	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	AND	DIS	ULR	VIS	SIO	MVE	ZER	ROB	SBE	CIM	PIO	COM	OTL	LUG	SBO
1	0.9	1.8	0.5	1.1	0.6	0.9	1.3	0.9	0.4	0.6	0.3	1.5	0.4	0.8	1.1	4.2	2.6	3.9	4.7	3.3	2.3	0.8	0.7	−0.5	−0.4	1.1	0.8	1.2	0.4	−1.3	2.6	0.7	1.1	NaN	−0.3	−0.2	3.2	3.7	0.8	0.1	0.9	−1.2	−1.8	−2.3	−1.5	−2.2	−1.1	0.3	1
2	2.0	1.2	0.1	0.3	1.6	1.8	1.4	2.0	2.1	2.6	2.2	2.2	2.0	1.7	2.2	1.9	1.4	1.8	2.0	1.7	0.4	−0.3	−0.9	−1.0	−2.2	0.0	−2.0	−0.3	0.2	−0.2	1.3	0.1	1.0	NaN	0.7	1.6	2.5	2.5	0.5	1.1	1.9	0.9	0.4	0.9	1.1	0.4	1.1	2.3	2
3	4.4	1.0	0.8	0.1	3.2	2.8	3.2	3.2	3.9	3.0	4.1	4.0	4.1	3.5	3.0	1.6	2.5	2.1	1.7	1.4	1.5	0.3	1.7	1.9	3.1	0.1	3.1	3.9	3.7	2.6	2.7	3.3	1.8	NaN	2.3	3.5	2.1	2.3	3.0	2.5	3.8	1.4	3.2	2.7	2.1	1.5	1.8	3.0	3
4	3.5	2.0	1.2	0.7	2.4	1.8	1.8	2.6	3.5	2.7	3.1	2.7	3.2	3.1	2.0	1.5	4.2	1.3	2.5	4.8	6.3	2.5	8.0	6.6	6.2	7.6	6.1	6.1	4.8	3.0	5.4	4.0	1.8	NaN	6.4	5.1	5.8	3.4	5.9	4.8	5.0	2.5	4.8	4.6	4.3	3.6	3.3	4.5	4
5	2.3	2.9	1.5	3.3	1.2	1.3	1.7	2.7	2.1	2.0	2.0	2.0	2.7	1.8	2.8	7.4	7.6	10.7	9.6	10.4	8.3	5.0	7.8	7.1	6.5	7.7	6.4	5.2	3.4	2.4	5.6	5.7	3.5	NaN	5.6	5.0	8.6	6.9	6.1	4.7	4.3	2.6	1.9	3.4	3.6	2.7	3.1	4.5	5
6	2.3	4.2	1.3	3.5	1.0	2.4	2.6	3.9	2.4	3.7	1.6	4.3	2.0	2.6	4.1	9.6	8.3	11.2	11.0	9.9	8.0	3.4	5.7	3.8	4.4	6.8	5.2	4.9	3.6	2.4	6.3	6.8	4.1	NaN	5.1	4.9	6.1	7.2	4.4	3.9	4.5	2.7	2.2	3.5	4.0	3.2	3.7	6.1	6
7	3.0	4.0	3.4	4.7	1.2	2.3	2.8	3.4	2.3	3.7	1.6	2.8	2.6	3.3	3.5	3.8	6.0	2.8	4.4	4.5	2.9	3.3	2.5	1.1	2.0	2.6	3.6	4.1	3.5	1.6	6.6	6.5	4.9	NaN	5.3	4.0	7.0	4.8	4.3	4.5	4.4	2.9	1.6	3.0	2.9	2.0	3.7	5.0	7
8	5.0	3.2	3.3	2.8	2.6	2.3	3.0	3.6	3.8	4.2	3.9	5.0	4.6	5.3	4.1	3.8	4.5	3.1	4.5	3.4	2.3	2.0	1.0	0.8	0.8	1.5	1.7	2.8	3.1	1.0	4.8	5.6	4.7	NaN	4.6	5.4	4.9	4.7	3.4	3.8	4.8	3.1	1.5	4.0	4.2	3.0	3.9	4.9	8
9	4.8	3.0	3.4	4.0	2.2	2.2	0.7	1.3	2.6	2.7	2.8	4.2	3.4	3.4	3.2	2.8	6.5	1.8	2.3	3.2	3.7	4.5	4.3	3.9	3.5	5.1	4.4	3.9	3.4	1.3	4.9	5.3	4.8	NaN	6.0	6.4	6.4	3.9	5.3	4.1	4.4	3.1	1.4	4.2	4.0	3.1	4.0	5.0	9
10	3.4	3.2	3.9	5.7	2.3	2.3	1.0	2.1	2.3	3.1	2.3	2.7	3.5	3.2	3.1	2.7	8.1	3.2	3.8	4.1	4.0	5.6	4.1	3.9	4.2	5.5	5.7	4.9	3.8	1.9	5.5	4.8	5.3	NaN	6.1	6.9	9.0	4.4	6.0	6.8	4.1	3.4	1.7	4.0	4.1	3.0	3.7	4.4	10
11	4.3	6.4	5.3	6.6	4.8	4.8	3.8	5.0	4.5	5.6	4.1	4.5	4.8	4.8	5.5	5.6	9.1	5.7	6.9	4.7	5.0	6.4	4.5	4.9	4.7	5.2	5.7	4.9	4.3	3.7	6.5	5.8	6.0	NaN	7.2	7.0	8.7	6.2	6.1	5.3	4.5	3.8	1.8	4.6	4.3	3.0	3.5	4.7	11
12	2.9	7.2	5.7	8.9	3.0	3.6	3.0	4.3	3.6	4.1	4.2	4.4	4.0	3.0	5.2	8.3	9.6	13.1	13.1	6.2	6.6	9.1	7.1	7.1	8.0	8.7	8.2	7.8	5.1	7.2	6.2	5.8	6.5	NaN	8.6	6.7	10.9	6.7	7.5	4.7	5.7	5.1	3.2	5.5	5.0	4.1	4.7	5.8	12
13	3.1	4.6	4.6	4.4	4.8	5.0	3.8	4.5	4.2	4.2	3.8	3.5	3.9	3.9	4.2	5.9	6.1	6.0	5.3	4.9	4.6	4.0	3.6	4.9	4.1	4.4	4.0	4.4	4.9	5.4	5.3	6.0	5.0	NaN	6.6	6.2	6.1	5.9	5.2	4.9	4.7	5.3	4.4	5.7	5.4	5.2	5.0	5.1	13
14	1.5	2.7	2.9	1.5	5.5	5.2	4.1	5.2	4.6	4.2	3.2	1.8	2.8	2.6	2.0	0.9	3.8	2.1	2.8	2.4	4.3	2.8	6.4	6.8	5.9	7.0	6.3	6.4	6.6	7.5	3.4	4.0	2.1	NaN	5.0	3.0	1.1	4.1	4.5	3.8	2.3	3.3	5.4	1.8	3.0	3.7	3.4	5.0	14
15	1.7	2.1	2.6	1.7	4.4	3.7	2.6	3.4	3.9	3.0	2.8	1.8	2.3	2.2	1.6	−0.4	−0.8	1.0	0.7	1.4	3.5	2.4	5.7	5.7	4.5	5.6	5.6	8.7	8.7	7.5	3.3	2.2	1.0	NaN	3.3	1.1	−1.9	1.3	3.0	3.8	0.8	1.5	4.0	−1.1	1.7	3.0	3.6	4.9	15
16	0.2	−0.7	0.2	−0.7	2.1	1.0	0.0	1.0	1.6	1.6	1.0	0.3	0.9	0.6	−0.2	−1.4	−1.6	−0.7	0.8	−0.8	1.5	0.7	4.5	5.1	5.3	2.5	6.2	6.1	6.0	7.0	2.5	0.9	2.2	NaN	1.9	1.3	−2.6	0.4	2.3	3.0	0.2	0.6	−1.0	0.1	1.9	1.8	2.7	3.3	16
17	0.1	−1.7	−1.5	−2.7	0.4	−0.5	−0.6	−0.8	−0.6	0.2	−0.1	0.4	0.0	−0.5	−1.2	−2.5	−2.2	−1.8	−0.4	−1.8	−3.0	−2.2	−2.2	−0.8	0.6	−3.9	1.4	−0.2	−1.3	−2.3	−0.1	0.0	1.4	NaN	0.3	−0.2	1.0	0.2	0.1	−0.4	0.3	−2.9	−3.7	−1.0	−0.7	0.3	0.6	−0.1	17
18	−2.9	−4.4	−3.6	−4.1	−0.5	−2.0	−2.6	−2.7	−3.0	−2.2	−3.5	−2.6	−3.5	−3.4	−4.0	−4.5	−3.6	−4.2	−1.6	−3.5	−4.2	−3.5	−1.6	−0.5	−1.2	−5.7	−0.4	−1.6	−2.3	−1.6	−1.7	−1.7	−1.9	NaN	−1.4	−1.3	−2.6	−2.1	−1.5	−1.6	−1.8	−3.2	−4.8	−2.9	−2.5	−1.6	−1.2	−2.1	18
19	−2.3	−4.4	−5.2	−5.8	−2.7	−3.7	−3.5	−3.1	−2.1	−2.5	−2.4	−2.4	−2.3	−2.6	−3.5	−4.3	−3.2	−3.8	−2.6	−4.1	−5.2	−4.7	−6.7	−6.5	−6.4	−6.4	−6.4	−6.1	−5.5	−7.0	−3.3	−2.0	−1.5	NaN	−4.3	−1.1	−0.7	−1.7	−4.6	−2.7	−2.8	−4.6	−6.9	−3.4	−3.8	−4.1	−4.2	−3.7	19
20	−2.9	−4.4	−3.6	−4.6	−2.7	−3.2	−3.7	−3.3	−2.5	−2.5	−3.3	−3.2	−3.1	−3.0	−3.9	−4.9	−1.0	−4.9	−2.9	−4.9	−2.7	−2.7	−2.6	−3.1	−2.1	−1.7	−0.6	−1.3	−1.7	−4.0	−1.1	−1.8	−2.0	NaN	−1.5	−0.1	1.9	−0.8	−1.4	−1.7	−2.7	−4.1	−4.2	−3.6	−3.6	−3.5	−2.8	−2.0	20
21	−3.6	−4.0	−3.5	−2.8	−0.8	−1.0	−3.0	−1.9	−1.9	−2.0	−3.4	−2.8	−2.7	−2.6	−3.8	−4.6	−1.1	−3.3	−1.2	−1.4	0.4	1.0	0.9	0.5	0.3	0.7	2.1	3.3	1.7	0.4	1.8	−0.3	−2.1	NaN	1.1	1.6	0.1	−0.4	0.4	1.0	−1.2	−2.0	−0.3	−2.9	−1.2	−1.3	−1.5	−1.4	21
22	−2.8	−2.2	−2.3	−1.2	0.7	0.4	−0.9	−0.3	−2.3	−0.3	−1.9	−1.0	−2.7	−1.4	−2.2	−1.3	0.5	−1.1	−0.8	1.3	1.4	1.6	2.3	2.0	0.9	2.6	1.8	1.3	1.0	−0.8	2.4	2.5	1.9	NaN	2.2	2.1	−1.2	0.7	1.1	2.0	1.2	0.1	−1.0	−1.0	1.1	0.7	1.6	2.5	22
23	−2.5	−1.9	−1.8	0.1	1.3	0.8	−1.7	−1.6	−1.4	−0.7	−1.8	−0.9	−1.7	−1.3	−2.1	−2.3	3.1	−2.4	0.1	1.7	2.1	2.9	1.9	1.2	1.3	3.4	2.7	2.3	1.3	0.0	2.8	1.7	0.1	NaN	2.9	2.8	4.0	0.8	1.7	0.9	1.0	−0.3	−1.5	−0.1	0.7	0.7	0.9	1.9	23
24	1.1	2.8	1.8	3.2	1.7	2.2	2.3	2.1	1.8	1.4	1.5	1.3	2.2	2.2	2.2	2.0	2.2	0.3	0.9	1.6	1.2	1.6	0.2	0.3	0.0	0.9	0.6	1.0	2.2	0.6	3.6	3.7	4.5	NaN	2.3	3.4	2.5	2.7	1.0	2.2	1.9	0.9	−0.1	−0.3	−1.6	−0.5	0.7	2.2	24
25	−0.1	−0.4	−0.2	1.2	1.2	0.7	−1.3	−1.6	−0.6	−0.3	−0.8	−0.2	−0.5	−0.9	−1.4	−1.3	1.2	−0.5	−0.9	−0.8	0.5	1.3	0.5	−0.2	−0.4	1.1	0.6	1.4	0.9	0.0	1.0	1.5	−0.5	NaN	1.2	1.8	−0.4	0.8	0.6	1.0	−0.2	−1.2	−0.2	−1.0	0.2	1.1	1.4	3.0	25
26	0.7	−0.8	0.2	−0.5	1.2	0.7	−0.2	0.5	0.9	0.4	0.2	0.7	0.4	0.6	−0.5	−1.4	0.4	0.3	0.7	−1.1	−1.7	0.2	−2.3	−1.8	−3.2	−2.5	−3.0	−2.4	−2.5	−1.8	−1.0	−0.6	−0.2	NaN	−2.0	2.9	2.1	2.6	−1.5	−0.2	2.2	0.0	0.3	2.2	2.9	1.2	1.8	2.9	26
27	0.3	−1.0	0.0	−0.7	0.8	0.0	0.1	0.5	1.1	0.5	0.5	−0.4	0.6	0.0	−0.5	−1.9	−0.1	−0.8	0.7	−0.8	−2.7	−1.1	−3.2	−3.1	−4.6	−3.1	−4.5	−4.5	−4.5	−4.8	−1.0	1.0	2.1	NaN	−1.6	2.7	2.8	2.0	−1.9	−0.8	4.1	−0.4	−0.5	2.5	4.9	5.1	5.6	6.9	27
28	0.6	−0.6	0.3	0.3	−1.5	−0.5	−1.3	−0.3	0.3	−0.3	−0.3	−0.2	0.1	−0.7	−0.5	−1.6	0.1	0.6	−0.9	−1.6	−1.5	−0.1	0.8	2.0	1.5	0.2	0.0	−0.7	−1.1	1.2	−2.4	−0.7	−4.0	NaN	−1.3	1.8	0.1	−0.7	−1.2	−0.7	−0.3	0.6	1.4	0.9	1.1	2.3	2.0	0.4	28
29	0.2	1.7	1.4	3.1	−0.3	0.9	0.1	0.2	0.6	0.9	0.2	0.4	−0.6	−0.2	0.2	1.8	3.2	2.8	0.6	3.2	4.2	4.3	5.6	4.9	6.4	6.4	6.3	6.4	6.0	6.7	3.9	1.5	1.8	NaN	4.4	4.7	1.8	1.7	4.5	4.7	−0.4	0.3	0.9	−0.4	−0.5	−0.4	−0.4	−1.6	29
30	0.8	2.8	1.2	3.8	1.4	2.6	0.6	1.3	1.2	2.1	1.3	1.5	1.4	2.4	2.7	4.0	2.2	1.1	2.1	2.9	1.8	3.0	1.3	0.5	0.0	1.1	0.4	0.7	1.2	3.0	3.5	3.3	2.8	NaN	3.5	4.4	3.1	2.1	1.2	2.4	−1.5	−0.2	−1.4	−1.5	−2.0	−0.9	−0.2	−0.3	30
Mitt.	1.1	1.0	0.8	1.3	1.4	1.4	0.7	1.3	1.3	1.5	1.0	1.3	1.2	1.1	1.0	1.2	2.7	1.7	2.3	1.9	1.9	1.8	2.1	1.9	1.8	2.1	2.4	2.5	2.0	1.4	2.7	2.5	1.9	NaN	2.7	3.1	3.1	2.5	2.2	2.3	1.9	0.8	0.4	1.1	1.5	1.3	1.8	2.6	Mitt.

−10 −5 −2.5 −1 1 2.5 5 10

Abweichung vom Temperaturmittel (°C) — Dezember 2018 — Normperiode: 1981 − 2010

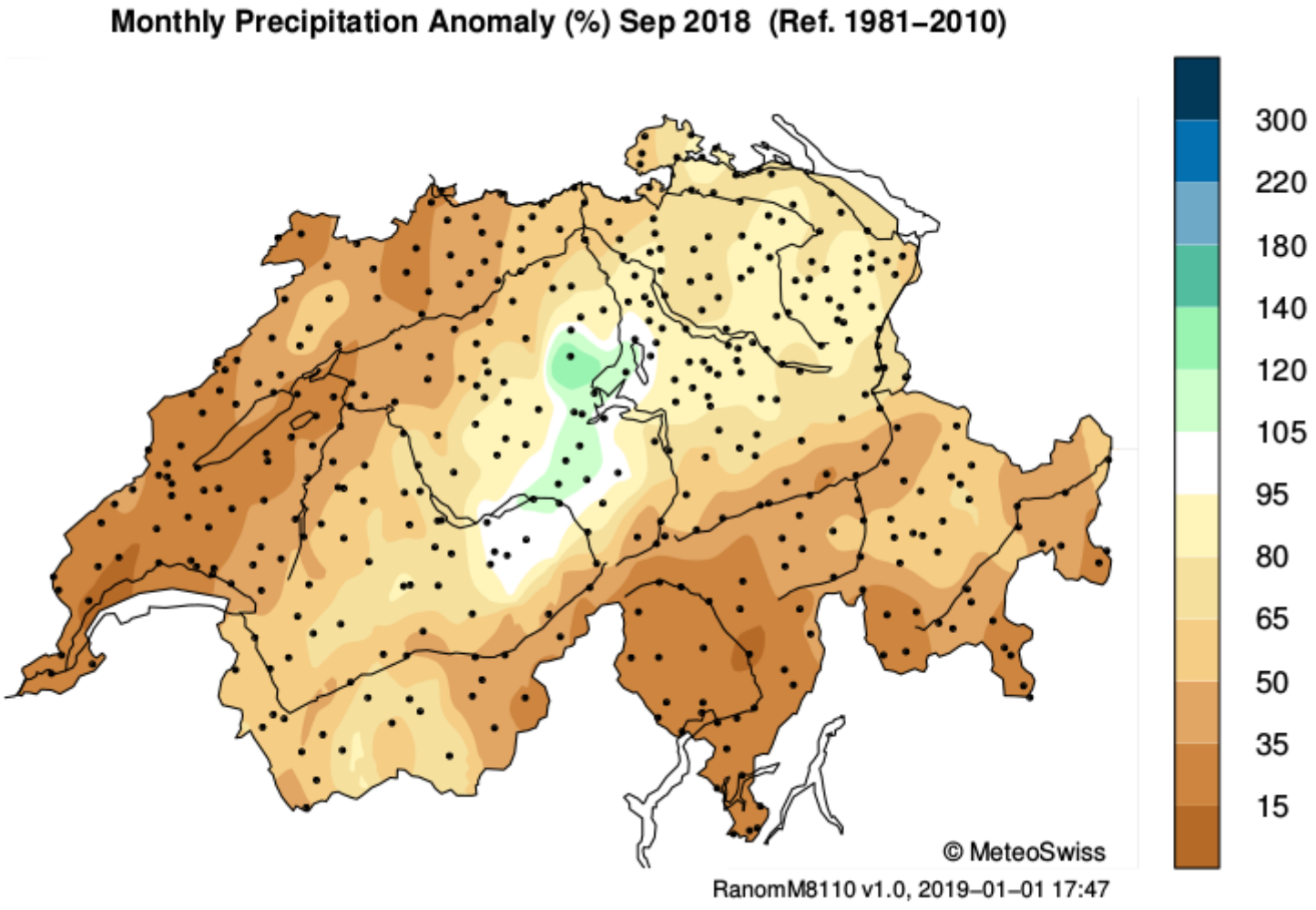
	N/NW−CH				Mittelland West				Mittelland Zentral/Ost								Täler Alpennordhang					Jura			Berglagen						Täler GR					Wallis					Alpensüdseite								
	SHA	RUE	BAS	FAH	GVE	PUY	NEU	BER	WYN	LUZ	BUS	GUT	KLO	TAE	SMA	STG	CHU	VAD	ALT	ENG	ABO	CDF	CHA	DOL	MLS	NAP	PIL	SAE	WFJ	JUN	DAV	SCU	SAM	AND	DIS	ULR	VIS	SIO	MVE	ZER	ROB	SBE	CIM	PIO	COM	OTL	LUG	SBO	
1	3.3	3.6	3.4	3.4	2.2	2.9	3.0	3.2	3.7	2.8	2.9	3.6	3.7	3.7	3.4	2.7	3.2	2.6	2.2	2.3	1.3	3.1	0.5	0.6	−0.4	0.5	0.2	0.2	0.4	0.8	1.9	3.3	2.4	NaN	2.0	3.8	3.3	4.2	0.6	0.9	−0.7	1.7	1.7	−0.9	−2.1	−0.6	−0.1	−0.6	1
2	5.8	7.4	5.5	7.1	4.6	3.3	5.0	5.1	6.0	4.0	5.8	4.5	5.9	6.4	4.5	6.0	4.5	6.6	4.0	5.6	6.6	6.6	3.8	3.1	3.7	4.1	4.3	4.7	4.8	6.5	3.5	2.7	4.0	NaN	3.2	3.6	2.5	3.3	1.9	3.0	1.1	0.3	0.4	−0.2	0.1	−0.1	−0.2	−1.0	2
3	8.9	8.6	9.7	8.2	8.6	6.1	7.2	9.0	8.6	7.9	8.7	9.5	9.5	9.4	8.5	8.5	5.6	7.0	6.7	7.5	6.9	7.9	5.5	4.9	4.1	5.4	3.9	4.6	4.9	4.4	5.9	5.6	7.4	NaN	5.0	5.8	5.6	5.9	4.8	5.0	3.5	4.1	4.2	3.9	2.5	2.1	1.9	1.2	3
4	5.9	5.3	6.1	5.2	6.2	5.5	6.0	7.1	6.7	6.0	6.5	6.1	6.3	6.3	5.7	4.5	4.5	4.9	4.4	4.8	3.4	4.9	2.4	2.6	1.4	2.7	0.9	1.4	1.3	1.1	3.7	4.7	5.8	NaN	3.0	5.3	7.7	6.0	2.9	3.7	5.4	4.8	4.0	5.0	5.4	6.3	4.7	3.8	4
5	4.1	4.4	4.7	4.4	2.4	3.0	4.0	5.4	5.5	5.3	4.8	4.0	4.6	4.3	4.2	3.5	4.6	5.6	3.8	5.6	5.7	5.3	6.6	7.8	7.0	5.5	5.3	3.4	4.6	5.4	3.7	4.2	3.9	NaN	2.9	5.6	5.1	4.3	4.8	5.0	3.4	3.3	3.7	2.5	3.8	4.6	3.6	2.3	5
6	6.2	6.7	6.0	7.4	5.3	4.9	5.9	6.8	7.1	5.8	7.0	6.3	7.3	7.5	6.6	6.9	5.5	6.3	4.9	6.3	5.4	6.9	4.3	3.9	2.7	4.2	3.0	3.3	3.5	3.8	5.6	4.7	5.3	NaN	4.6	6.8	5.9	5.6	3.7	4.4	2.6	4.2	2.7	2.2	2.0	3.1	3.3	3.5	6
7	7.4	6.4	7.5	6.0	5.6	5.6	6.3	6.8	7.4	5.8	7.2	7.7	7.8	8.3	7.3	7.2	5.8	6.6	4.7	5.8	5.9	5.5	3.5	2.9	4.0	3.6	4.6	4.7	6.0	6.2	5.4	5.0	6.5	NaN	6.1	5.8	5.8	5.8	4.5	5.2	3.4	3.5	3.9	1.9	2.3	2.5	2.9	2.9	7
8	3.8	3.8	5.1	3.3	3.5	3.3	3.0	4.8	4.4	6.0	4.1	4.7	4.8	4.6	4.1	3.2	3.5	4.5	4.4	4.4	1.8	2.2	−0.5	−1.1	−2.1	−0.3	−2.2	−1.4	−2.3	−2.1	1.7	2.7	3.5	NaN	0.2	4.3	5.0	4.7	−0.5	1.6	4.5	2.1	0.4	3.1	5.5	5.3	5.6	5.9	8
9	4.7	4.1	5.0	3.9	5.3	4.2	3.8	5.3	5.6	6.0	4.7	5.0	5.3	5.0	4.2	3.4	1.6	5.0	4.8	4.8	2.4	2.9	0.5	0.3	−0.4	0.5	NA	0.6	−0.1	0.2	2.1	3.2	5.9	NaN	0.0	5.6	5.9	6.1	0.9	2.9	1.5	0.8	−0.1	1.3	1.6	2.5	3.4	3.1	9
10	2.5	1.8	3.0	1.4	2.7	1.8	2.0	3.0	3.5	3.0	3.1	2.4	2.7	2.6	1.9	0.9	1.6	3.6	3.4	1.4	−0.8	0.9	−1.8	−1.5	−2.7	−1.6	−3.6	−3.2	−3.6	−4.6	0.1	1.3	2.8	NaN	−1.0	4.0	4.7	4.8	−0.9	0.7	1.9	−0.3	−2.6	0.9	1.6	2.6	3.8	6.4	10
11	−0.8	−1.0	−0.4	−1.3	−0.3	0.4	0.3	0.3	−0.6	1.0	−0.3	−0.3	−0.9	−0.4	−0.6	−1.2	−0.9	0.0	0.4	−2.7	−4.7	−3.5	−4.6	−3.4	−4.6	−3.7	−6.2	−7.1	−7.2	−6.7	−3.4	−2.6	−2.7	NaN	−3.3	−1.9	2.7	1.6	−3.1	−3.2	0.2	−3.0	−3.0	−1.5	0.3	1.6	2.5	2.8	11
12	−2.3	−3.1	−4.0	−3.7	−3.4	−2.4	−1.9	−2.9	−2.4	−2.6	−2.8	−1.4	−3.1	−3.1	−2.7	−3.6	−5.3	−3.6	−4.3	−7.6	−8.3	−5.6	−6.3	−3.4	−5.8	−5.2	−5.0	−5.9	−5.6	−5.5	−8.9	−9.1	−12.9	NaN	−7.7	−12.5	−3.3	−2.2	−7.0	−6.6	−5.3	−5.5	−4.0	−6.8	−3.8	−1.9	−1.6	−2.9	12
13	−1.1	−2.8	−2.9	−3.3	−2.1	−3.3	−2.3	−2.8	−0.9	−3.0	−1.3	−1.4	−1.9	−1.8	−2.8	−5.1	−4.3	−5.1	−4.2	−6.9	−6.4	−3.9	−6.9	−3.5	−4.6	−5.5	−5.1	−6.1	−7.5	−6.5	−7.7	−9.1	−11.9	NaN	−5.8	−10.8	−2.7	−2.4	−5.6	−7.6	−5.2	−7.1	−6.4	−3.8	−2.7	−2.1	−0.9	−1.6	13
14	−3.0	−4.4	−2.6	−4.1	−1.0	−1.9	−2.7	−2.2	−2.0	−2.6	−2.6	−2.7	−2.5	−2.9	−3.5	−5.3	−3.5	−4.4	−1.9	−3.6	−5.4	−3.1	−5.1	−4.6	−5.7	−4.5	−5.4	−5.6	−6.2	−4.8	−6.6	−8.7	−10.1	NaN	−5.3	−10.2	−2.7	−1.7	−5.4	−6.3	−5.6	−5.0	−5.2	−4.9	−4.0	−2.7	−2.5	−3.5	14
15	−3.7	−4.3	−2.9	−4.3	−1.6	−2.5	−3.4	−2.6	−2.1	−2.5	−2.7	−3.8	−3.4	−4.0	−4.0	−5.5	−4.5	−3.5	−3.5	−7.3	−5.8	−4.2	−4.9	−2.7	−2.9	−5.1	−3.6	−4.4	−5.1	−2.6	−7.6	−8.5	−10.8	NaN	−6.9	−10.6	−3.3	−1.0	−5.2	−5.4	−4.6	−2.9	−2.3	−4.5	−4.0	−3.5	−3.1	−4.5	15
16	−1.9	−0.9	−1.0	0.6	0.6	0.1	−0.3	−0.2	−0.4	−0.5	−0.9	−1.2	−0.8	−0.7	−1.1	−0.5	−1.8	−0.7	−1.4	1.6	2.2	1.4	0.3	0.8	0.5	0.4	0.0	0.0	0.3	1.3	−0.1	−2.2	−0.5	NaN	−1.7	1.3	0.4	0.1	−0.6	1.6	−1.2	−2.2	−3.0	−2.8	−2.1	−1.6	−1.4	−1.6	16
17	0.0	1.0	1.2	1.6	2.0	2.0	1.4	1.4	1.1	1.1	1.0	0.9	0.7	1.0	0.6	0.6	−1.0	−0.7	0.4	1.7	−0.5	0.5	−1.1	−1.3	−2.3	−0.5	−2.5	−2.2	−2.1	−3.3	0.6	−1.7	−1.9	NaN	−0.3	3.0	1.9	1.4	−0.8	−0.4	1.8	2.0	0.3	−1.3	−0.2	−1.1	−1.1	−1.5	17
18	−1.6	−0.8	−1.1	0.1	−0.5	0.2	−0.5	−1.4	−1.2	−1.4	−0.9	−0.4	−2.7	−3.0	−2.1	−1.3	0.0	2.3	−1.9	−0.8	−1.3	0.7	1.1	1.6	3.4	2.2	3.3	1.9	2.2	3.6	−2.3	−3.0	−6.3	NaN	−0.7	−3.9	−1.3	−0.5	−0.5	−1.2	−1.1	−1.3	−0.3	−4.6	−0.8	−0.2	−1.4	−2.6	18
19	−0.5	1.1	0.2	4.2	0.9	1.2	0.5	0.6	0.3	1.3	0.2	0.0	−0.2	−0.4	0.4	3.4	1.4	0.6	1.3	2.9	2.0	3.4	1.5	0.8	0.8	1.6	1.3	1.4	2.5	1.8	1.8	−0.5	1.9	NaN	2.9	4.1	2.0	1.2	1.0	2.1	−0.5	−1.4	−2.0	−1.5	−1.7	−1.9	−1.6	−1.2	19
20	3.2	4.1	4.0	3.8	2.5	2.7	3.6	3.0	3.9	2.2	4.2	4.1	4.8	4.5	3.9	3.6	1.0	2.9	1.4	1.8	2.4	2.8	−0.2	−0.4	−1.4	0.1	−1.4	−1.4	−1.0	−2.7	0.3	1.0	−1.6	NaN	0.0	−0.1	−0.4	0.3	−0.6	−1.3	−2.2	−2.8	−1.7	−4.7	−2.5	−1.4	−0.8	−1.0	20
21	6.0	7.1	7.6	7.0	4.7	3.4	5.4	5.2	6.2	3.2	6.0	5.6	6.7	5.9	5.3	6.6	2.4	5.0	2.3	5.3	6.2	5.9	2.5	2.2	2.1	3.1	2.7	3.4	3.2	4.9	1.5	0.5	1.1	NaN	1.4	1.3	0.5	1.1	1.3	1.6	−1.4	−1.1	−0.4	−1.2	−1.1	−0.8	−0.4	−1.5	21
22	8.9	8.4	9.6	7.9	8.0	6.7	8.4	9.9	8.9	9.8	8.9	9.2	9.2	9.2	8.6	8.2	3.8	8.0	5.7	7.7	6.9	7.6	4.1	4.2	3.2	5.0	2.7	3.9	3.9	3.1	5.4	4.7	9.0	NaN	5.4	7.6	4.8	5.1	5.1	5.4	3.6	6.1	6.1	3.2	3.7	1.8	0.6	−0.8	22
23	8.0	7.5	8.6	7.7	6.9	6.3	7.4	9.0	7.7	7.4	7.6	8.1	8.2	8.4	7.7	7.1	3.9	5.6	5.1	7.0	6.8	7.4	4.3	4.1	3.5	4.7	3.4	3.7	3.9	5.1	4.6	4.6	6.9	NaN	3.1	7.2	5.3	5.5	4.6	4.7	5.2	6.6	7.3	6.6	5.8	3.1	1.1	0.0	23
24	5.4	4.6	4.8	4.0	6.1	4.9	4.7	5.4	5.7	6.5	5.8	4.9	5.4	4.6	4.7	3.4	3.0	3.7	4.2	4.5	2.4	4.1	1.4	2.1	1.0	1.7	0.3	−0.3	0.0	1.3	2.3	4.0	4.9	NaN	1.3	5.3	7.3	6.7	3.1	3.3	5.6	3.0	3.4	4.6	5.3	5.3	5.6	6.2	24
25	−1.0	−1.7	−0.6	−1.5	1.2	−0.1	0.0	−0.1	−0.1	0.5	−0.4	−0.3	−0.2	−0.3	−1.0	−1.5	−0.5	0.3	−2.0	−1.2	−1.6	−0.4	2.7	1.7	2.2	2.3	1.0	−0.6	−1.8	0.7	−4.2	−1.8	−5.9	NaN	−3.3	−2.6	0.6	2.1	−1.5	−1.2	2.6	1.5	3.8	3.1	2.8	3.6	2.4	0.3	25
26	−1.4	−2.9	−3.1	−4.0	−0.5	−1.5	−2.2	−1.4	−1.1	−0.6	−1.3	−1.8	−0.9	−1.7	−1.7	−3.4	−0.3	−0.1	−2.3	1.1	2.8	−0.2	6.7	6.3	6.5	6.1	5.5	4.7	3.6	4.7	−1.6	−1.7	−4.1	NaN	−0.8	−3.1	−1.8	−0.4	1.5	1.7	1.1	6.3	5.6	−0.7	0.4	0.4	−0.3	−1.5	26
27	−2.8	−2.7	−2.7	−1.1	−0.9	−1.0	−2.0	−1.9	−1.5	−1.1	−1.7	−1.9	−1.5	−2.4	−1.9	−2.0	1.2	−3.4	−1.8	4.3	5.6	1.9	9.9	9.4	7.3	9.1	7.8	7.4	6.8	7.4	0.1	−0.2	−2.6	NaN	2.3	−2.2	−1.5	0.0	3.8	3.4	1.8	5.4	6.5	0.2	1.2	0.9	−0.5	−1.5	27
28	−0.8	−0.2	−0.7	−0.4	−0.5	0.3	−0.8	−1.0	−0.6	0.2	−0.7	−0.4	0.6	−0.1	−0.1	−0.4	0.5	−1.1	0.2	2.4	4.1	0.7	5.9	6.3	5.2	4.9	5.8	5.4	5.2	5.4	2.9	2.7	1.3	NaN	2.8	−0.4	0.6	0.7	2.8	4.9	5.1	7.6	8.9	5.3	3.7	2.4	0.9	−0.2	28
29	−1.1	−2.0	−1.2	−1.9	0.3	−0.7	−1.3	−0.5	−0.3	0.3	−0.4	0.0	0.1	0.1	−0.6	−2.4	−1.4	−0.8	0.2	−0.9	2.9	−0.7	4.0	5.0	4.0	4.0	3.8	2.6	2.4	3.0	1.1	1.4	0.1	NaN	0.5	−2.5	−0.8	0.5	1.3	2.7	6.0	6.6	8.1	7.4	6.7	3.7	0.7	0.3	29
30	1.9	0.4	1.4	0.6	0.6	1.3	1.2	1.7	1.7	1.8	1.3	2.2	1.8	2.4	1.5	1.7	0.8	1.8	1.3	2.1	2.5	1.8	2.0	3.3	2.1	1.9	−0.1	−1.7	−1.6	−0.1	1.8	4.3	5.4	NaN	0.2	6.0	0.4	1.3	3.4	3.8	7.9	4.3	4.7	8.1	9.5	8.4	6.6	8.1	30
31	3.4	2.9	3.6	2.6	0.8	2.3	3.6	3.8	4.0	4.1	3.5	3.3	4.0	4.1	3.2	2.3	1.0	1.9	3.0	3.4	3.1	3.7	2.8	3.3	2.5	2.4	2.1	2.0	1.4	3.9	3.0	2.9	5.1	NaN	1.0	6.1	0.3	1.4	2.8	2.1	11.0	5.1	7.2	8.9	11.2	5.2	3.1	2.3	31
Mitt.	2.2	2.0	2.4	2.1	2.3	1.9	2.1	2.6	2.7	2.5	2.5	2.5	2.6	2.5	2.1	1.7	1.2	2.0	1.5	2.0	1.8	2.1	1.4	1.8	1.1	1.6	NA	0.6	0.5	1.2	0.5	0.5	0.4	NaN	0.4	1.0	2.0	2.3	0.7	1.2	1.7	1.5	1.7	0.9	1.6	1.5	1.2	0.7	Mitt.

−10 −5 −2.5 −1 1 2.5 5 10

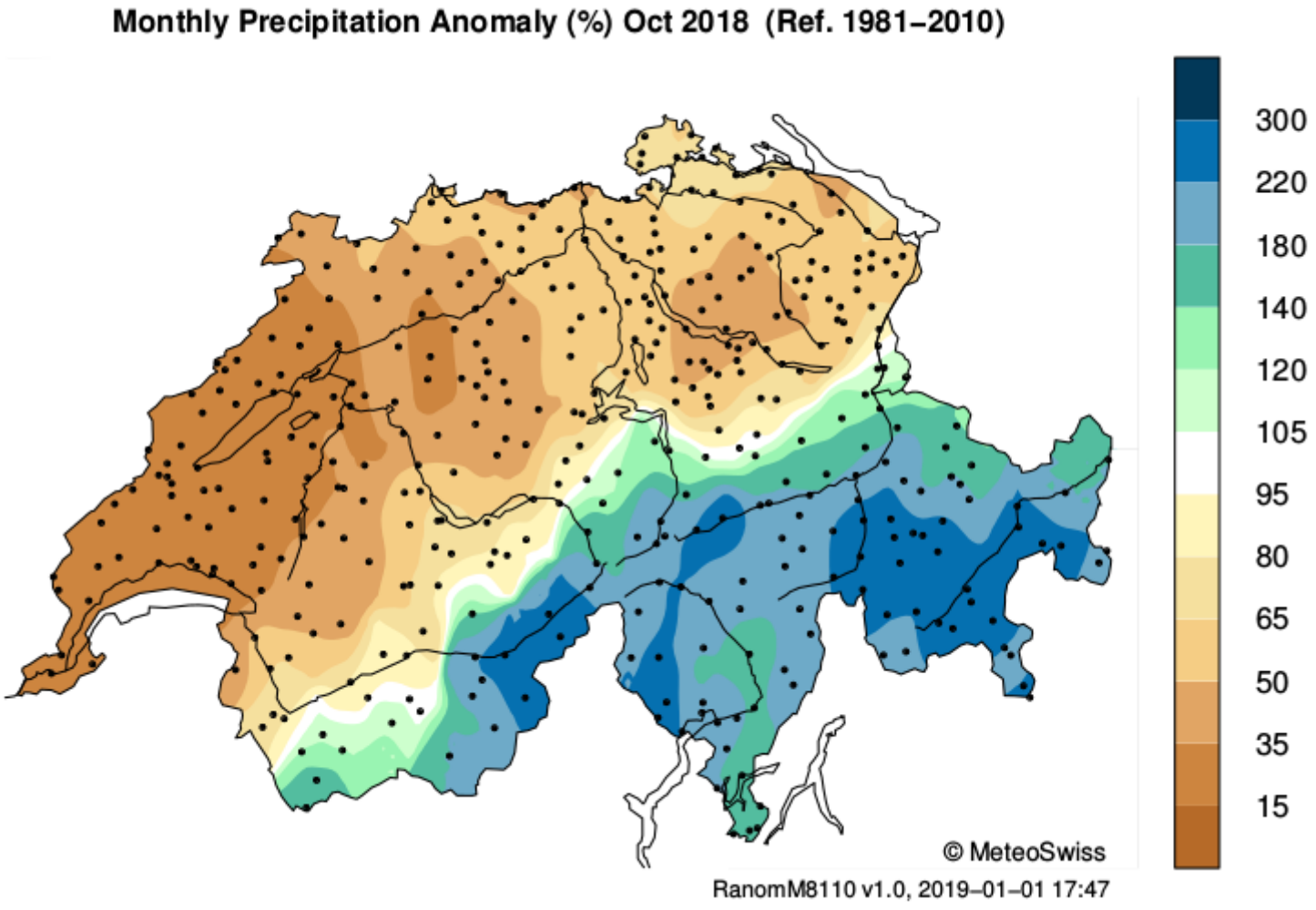
Autunno 2018

Anomalie Precipitazioni
Set- Dic 2018

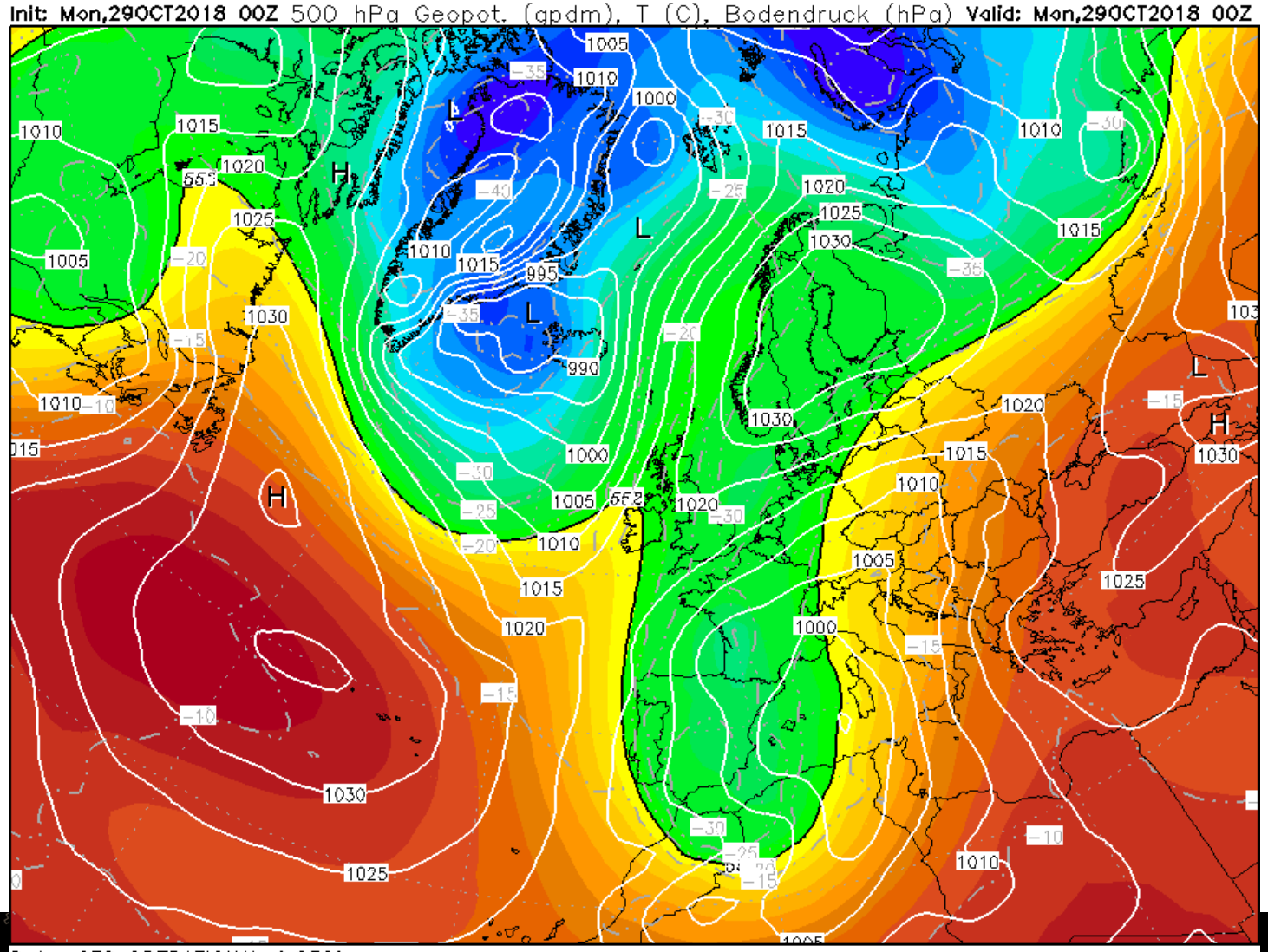
Settembre 2018



Ottobre 2018

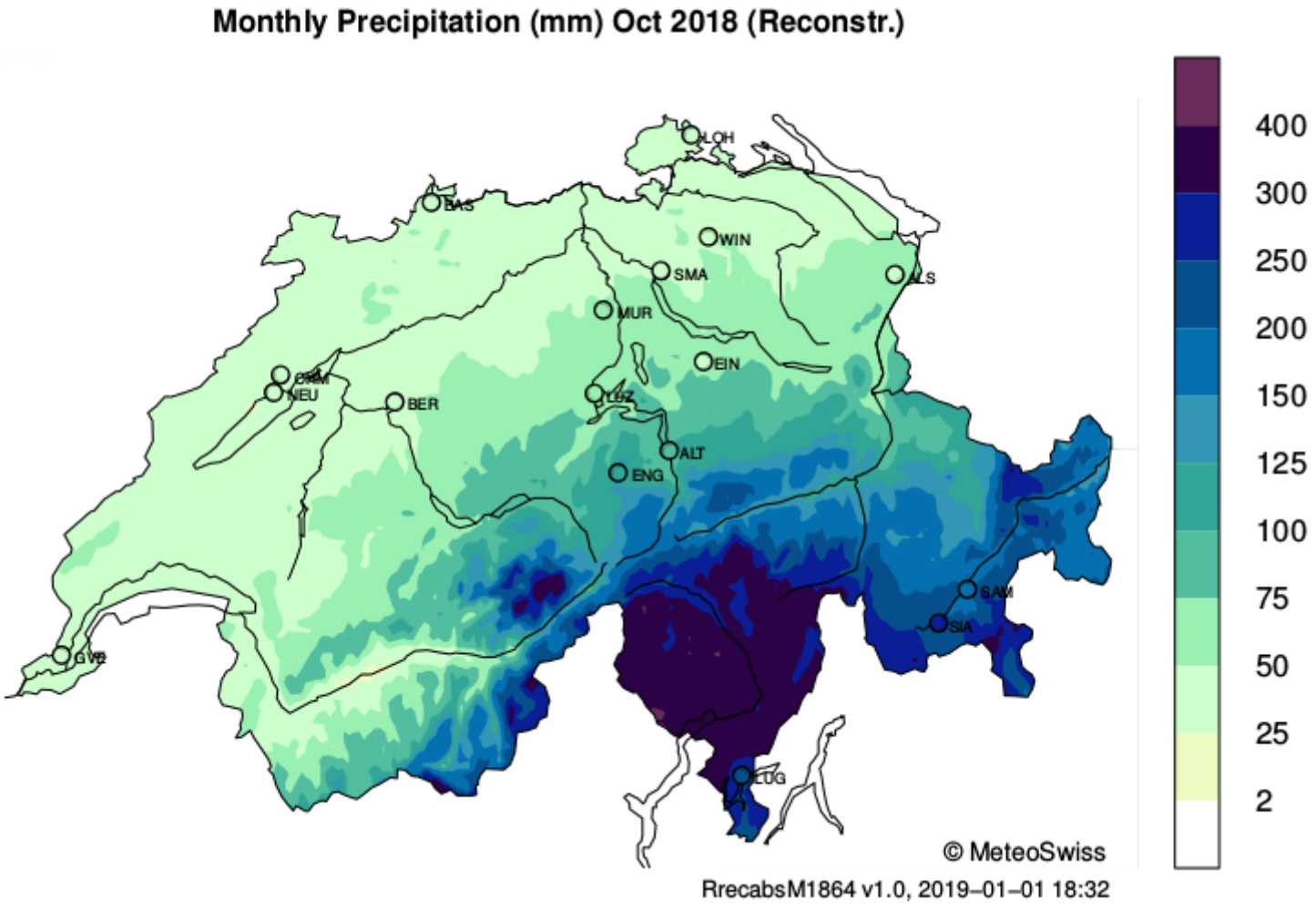


Ottobre 2018

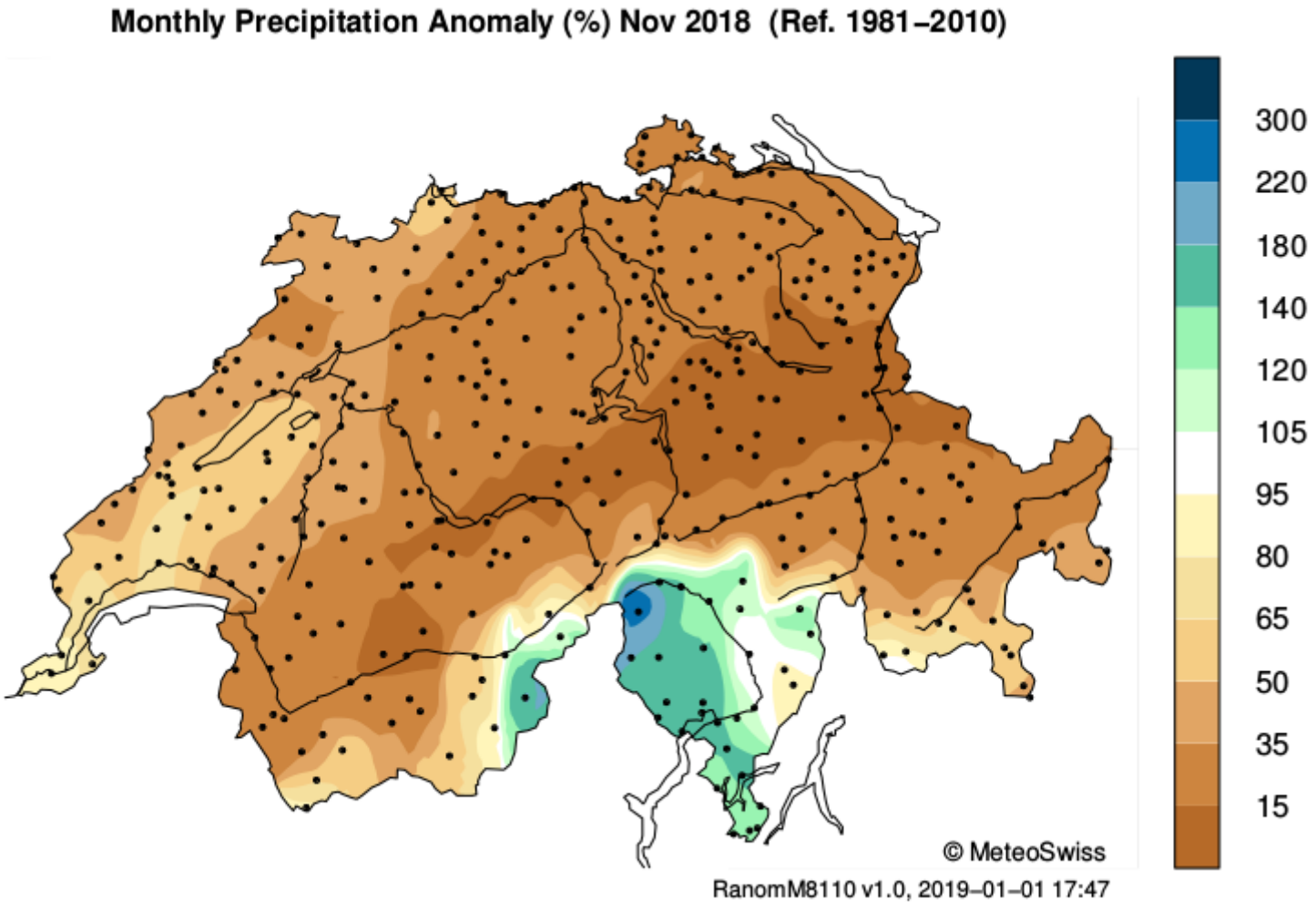


MeteoSvizzera

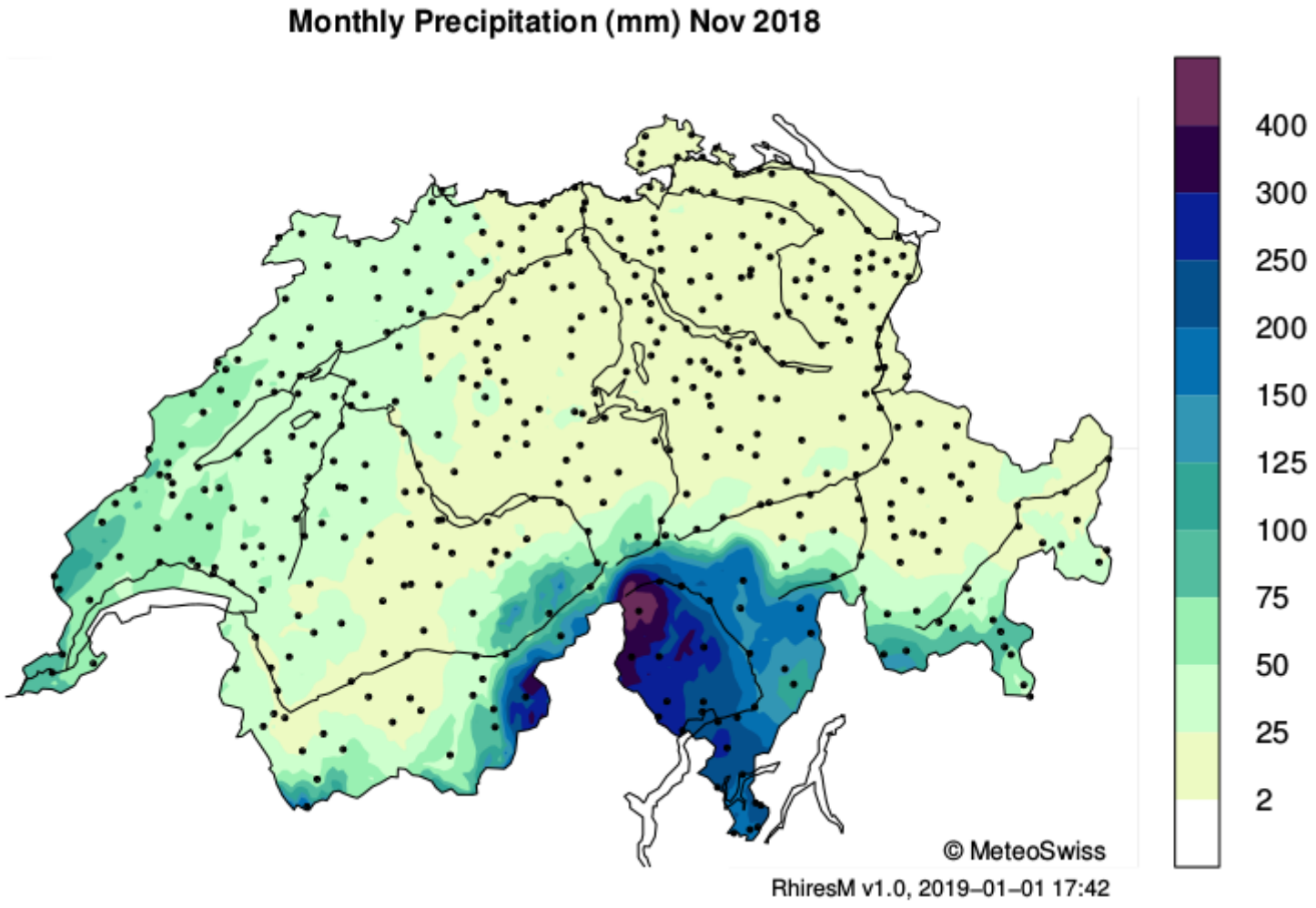
Ottobre 2018



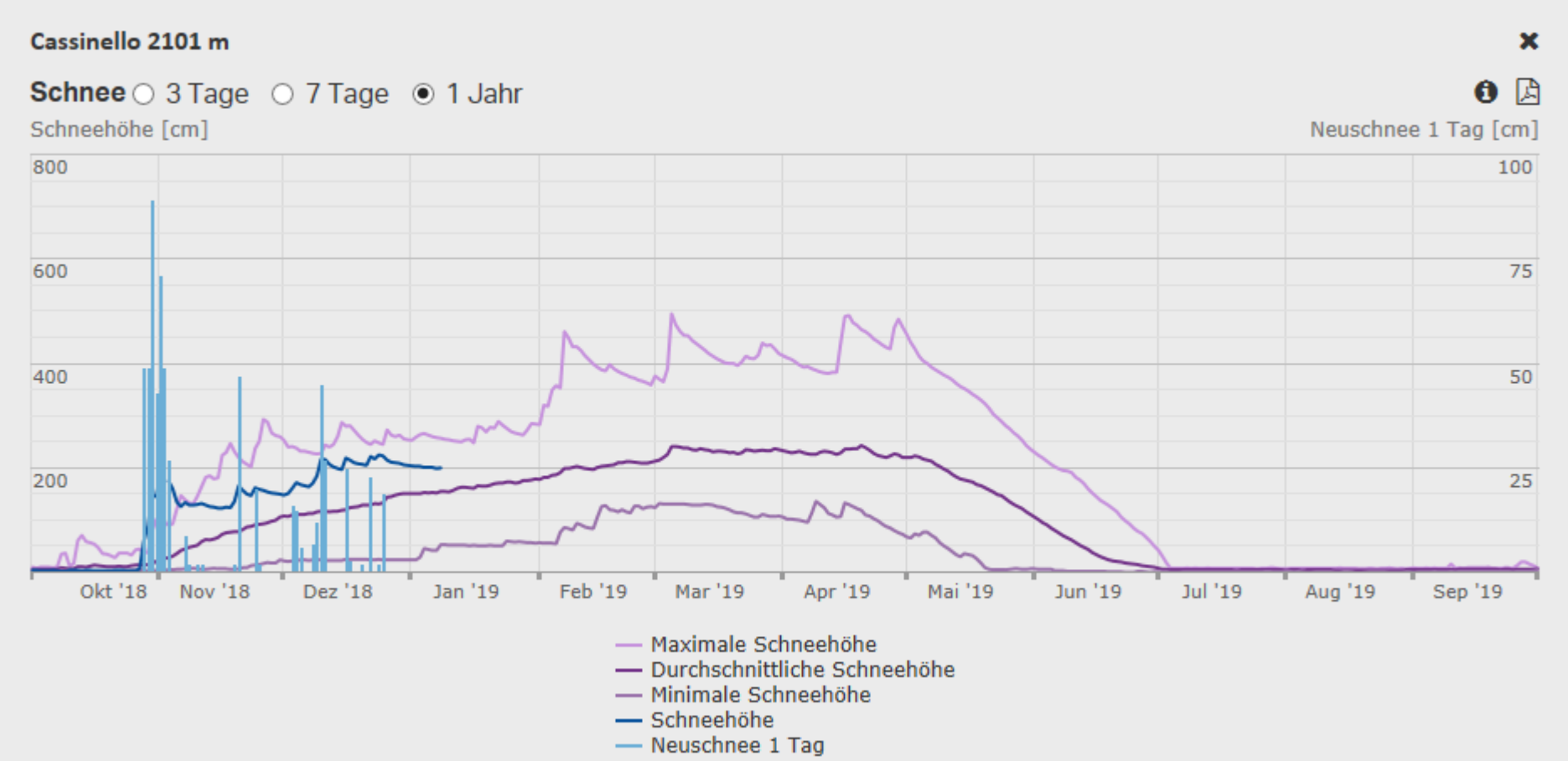
Novembre 2018



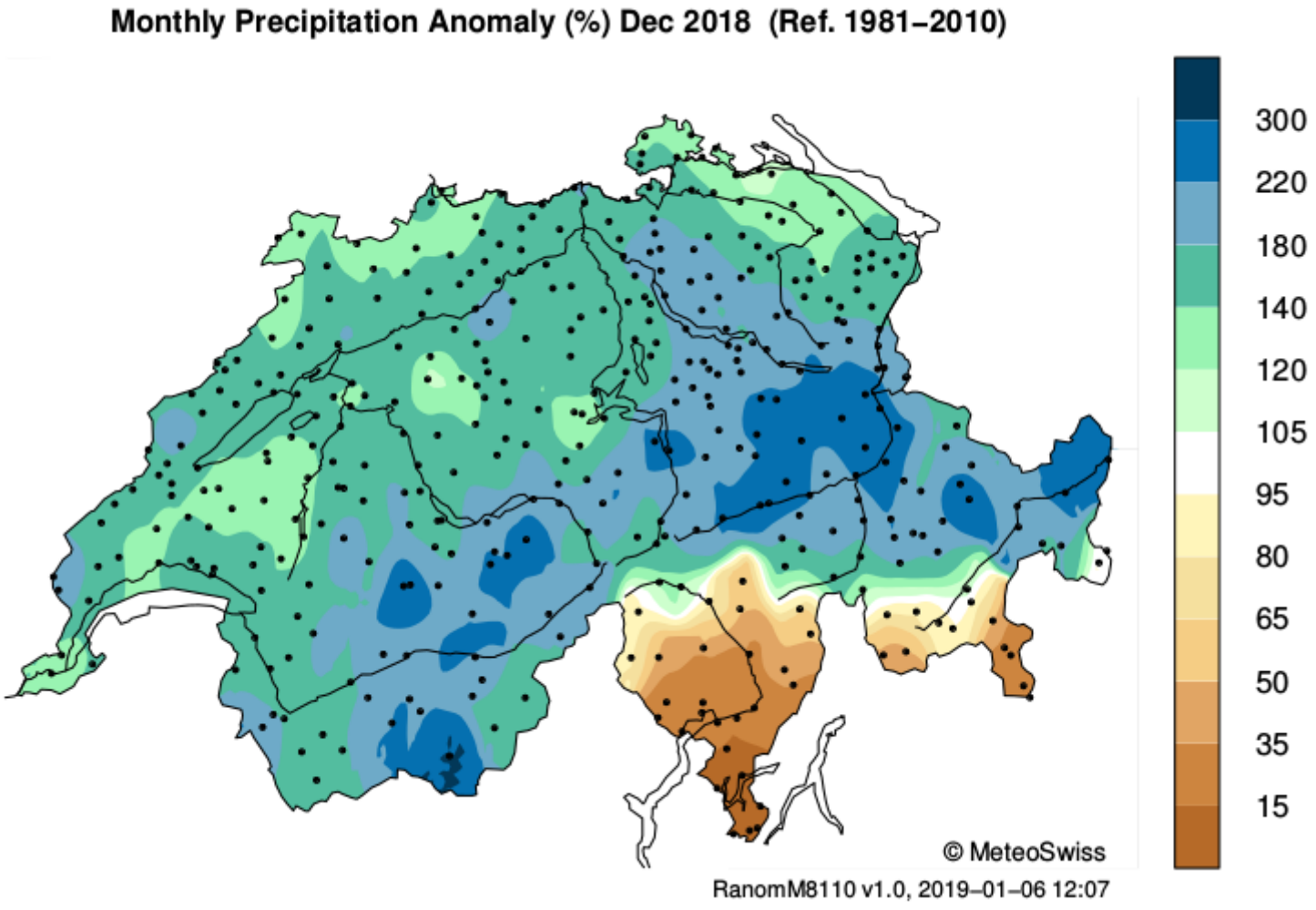
Novembre 2018



Neve a Bedretto Cassinello



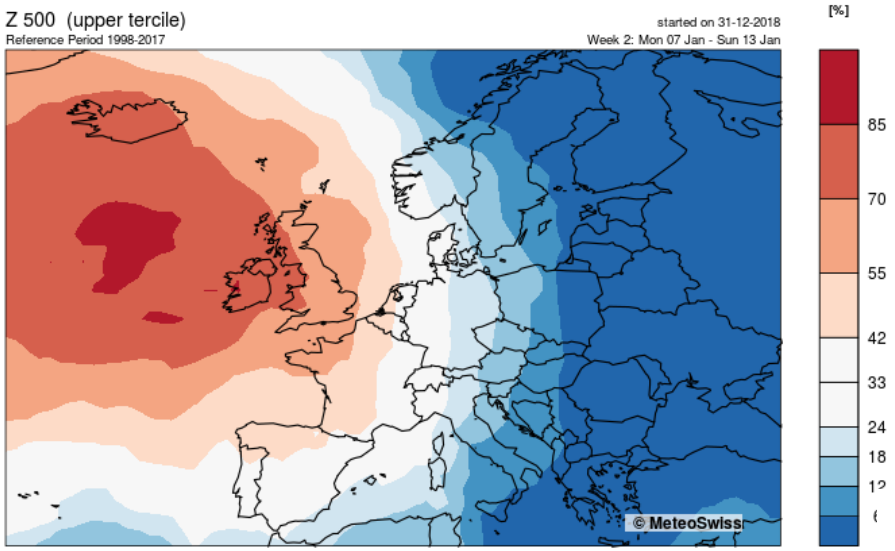
Dicembre 2018

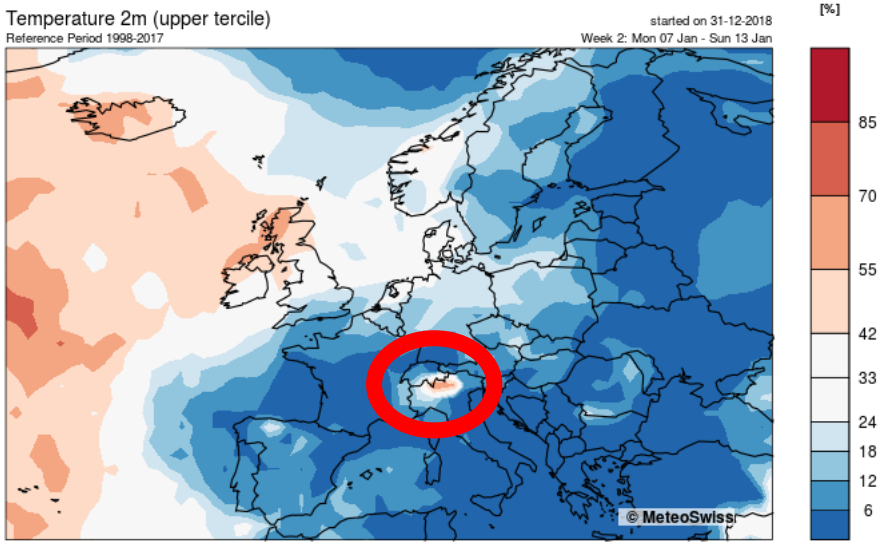


Uno sguardo a gennaio 2019…

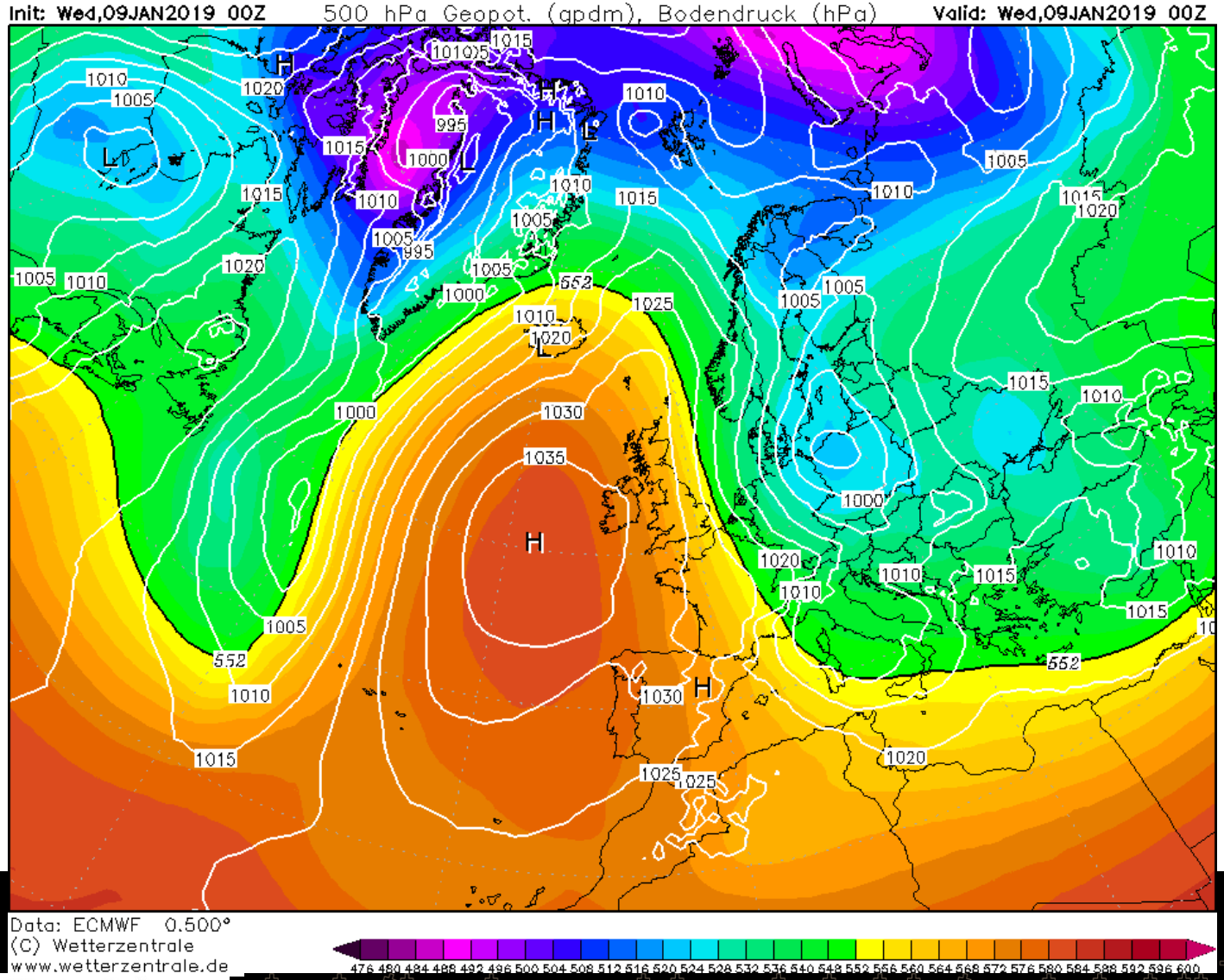
Gennaio (2017 vs 2018 vs 2019)

Anomalie geopotenziale previste al 31.12 per giorno +8/+14



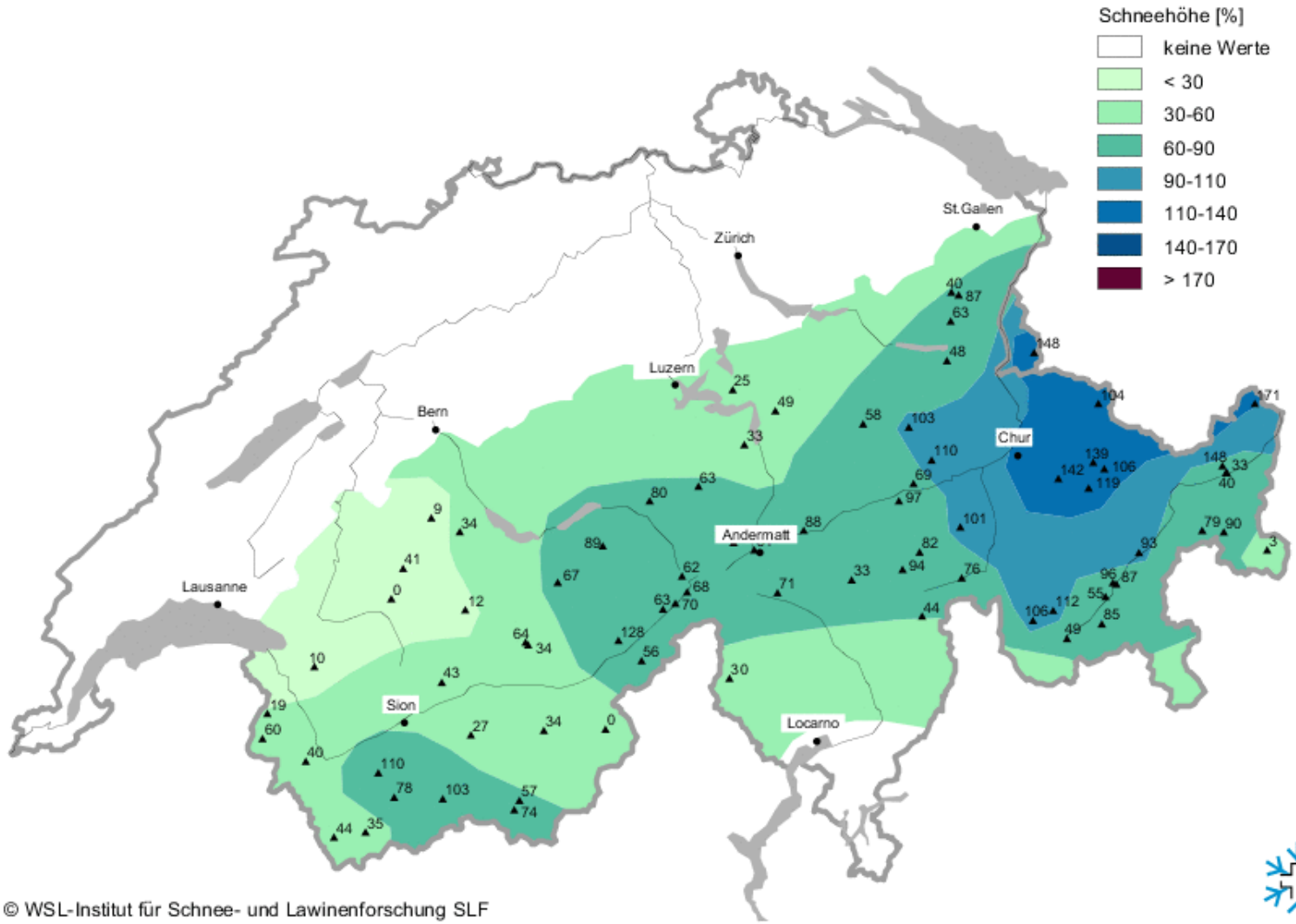


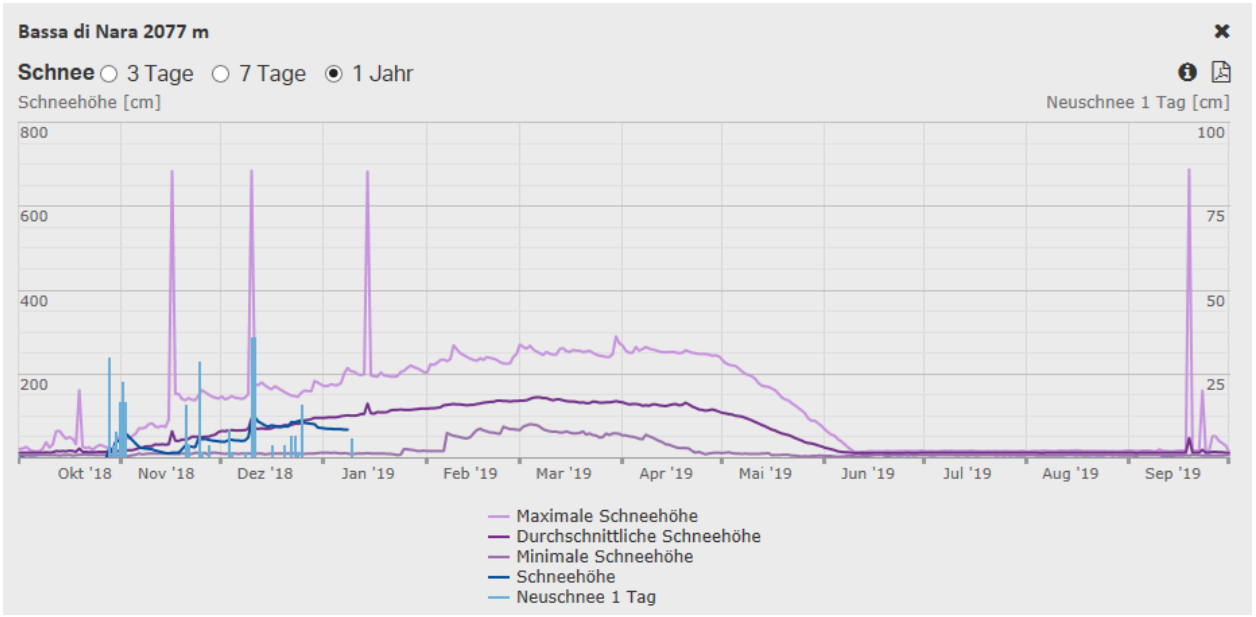
Blocco «omega» persistente

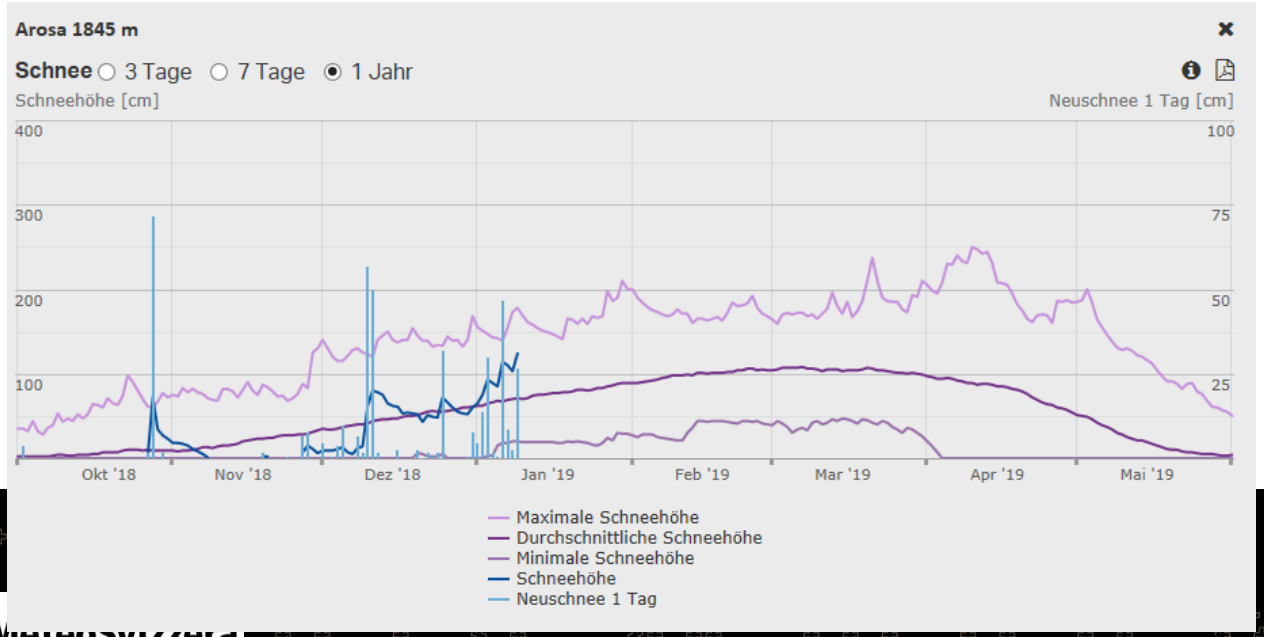


MeteoSvizzera

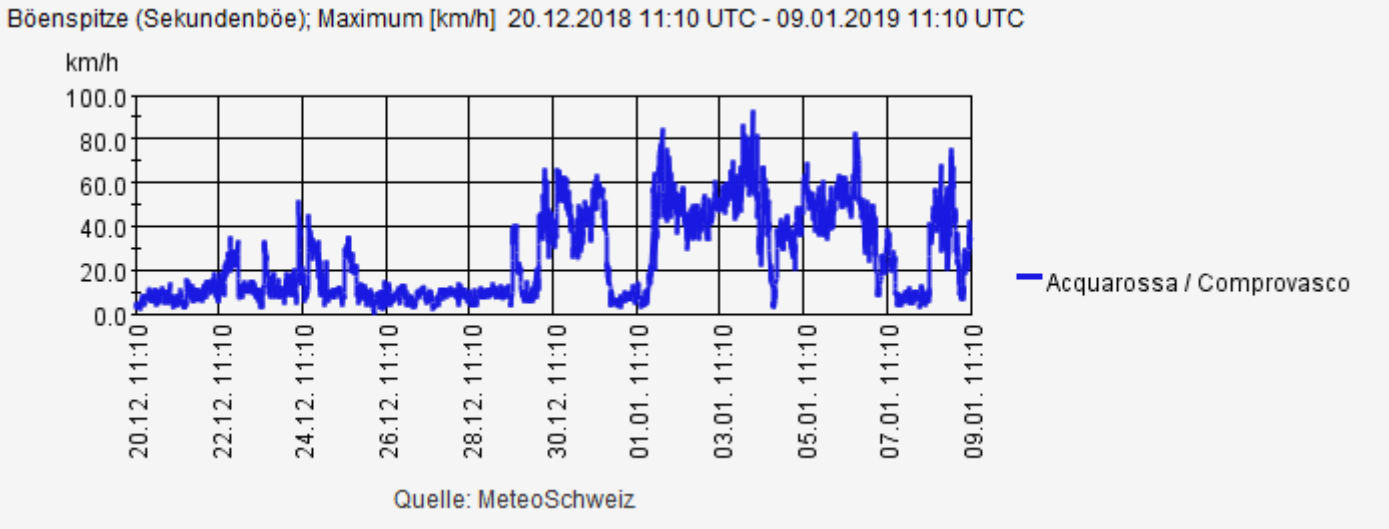
Spessore della coltre nevosa: anomalie

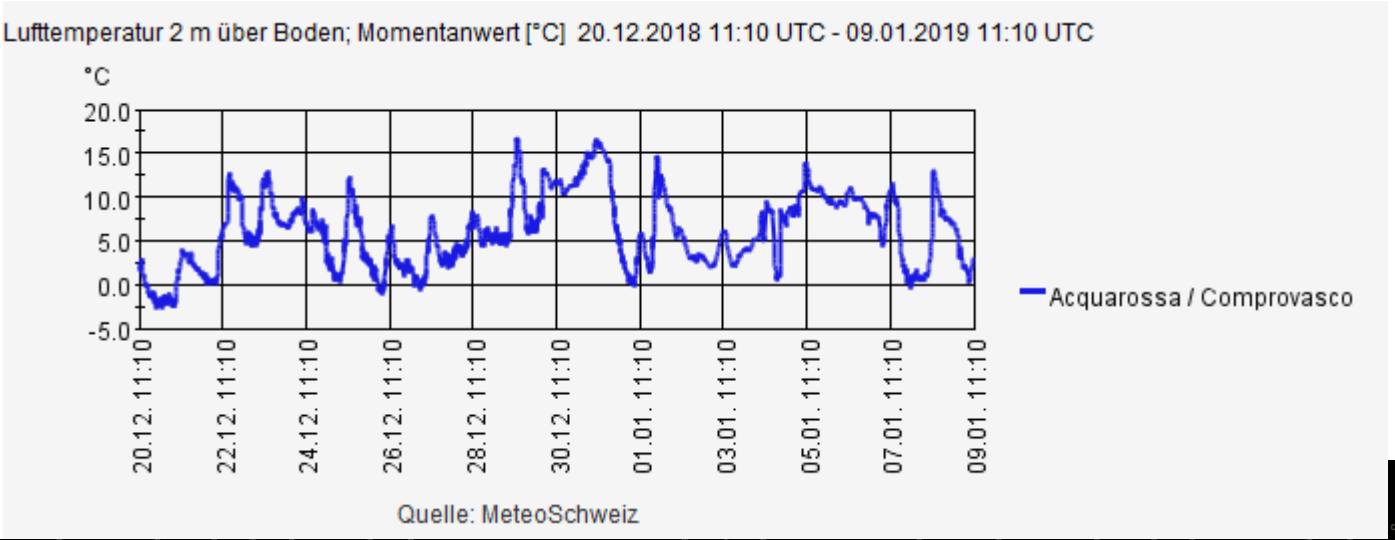



Bassa di Nara 2077 m
Schnee 3 Tage 7 Tage 1 Jahr
Schneehöhe [cm]
Neuschnee 1 Tag [cm]
800
600
400
200
100
75
50
25
Okt '18
Nov '18
Dez '18
Jan '19
Feb '19
Mar '19
Apr '19
Mai '19
Jun '19
Jul '19
Aug '19
Sep '19
Maximale Schneehöhe
Durchschnittliche Schneehöhe
Minimale Schneehöhe
Schneehöhe
Neuschnee 1 Tag

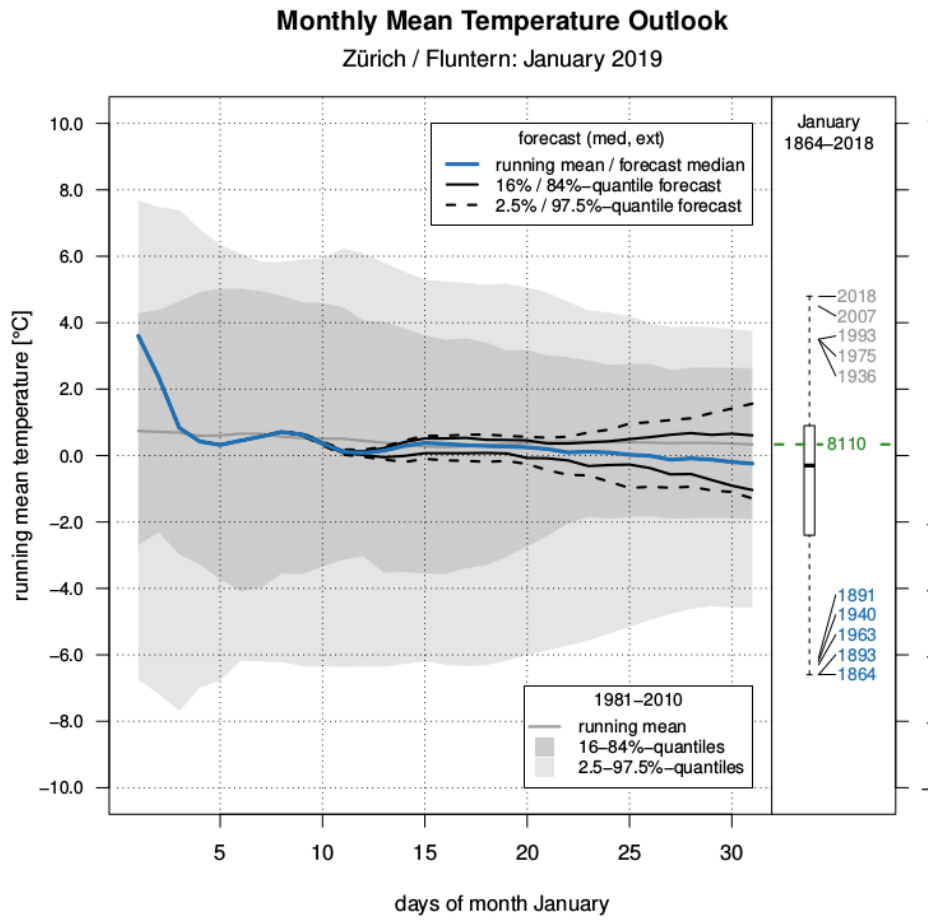

Arosa 1845 m
Schnee 3 Tage 7 Tage 1 Jahr
Schneehöhe [cm]
Neuschnee 1 Tag [cm]
400
300
200
100
100
75
50
25
Okt '18
Nov '18
Dez '18
Jan '19
Feb '19
Mar '19
Apr '19
Mai '19
Maximale Schneehöhe
Durchschnittliche Schneehöhe
Minimale Schneehöhe
Schneehöhe
Neuschnee 1 Tag

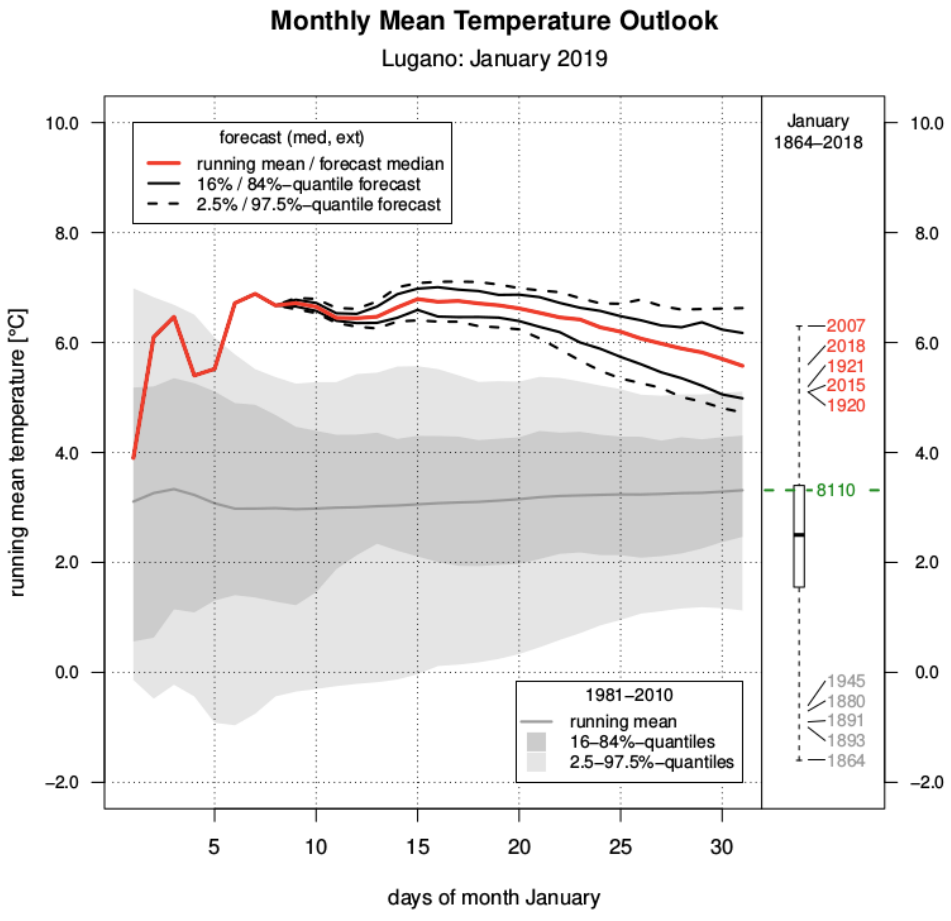
Favonio persistente



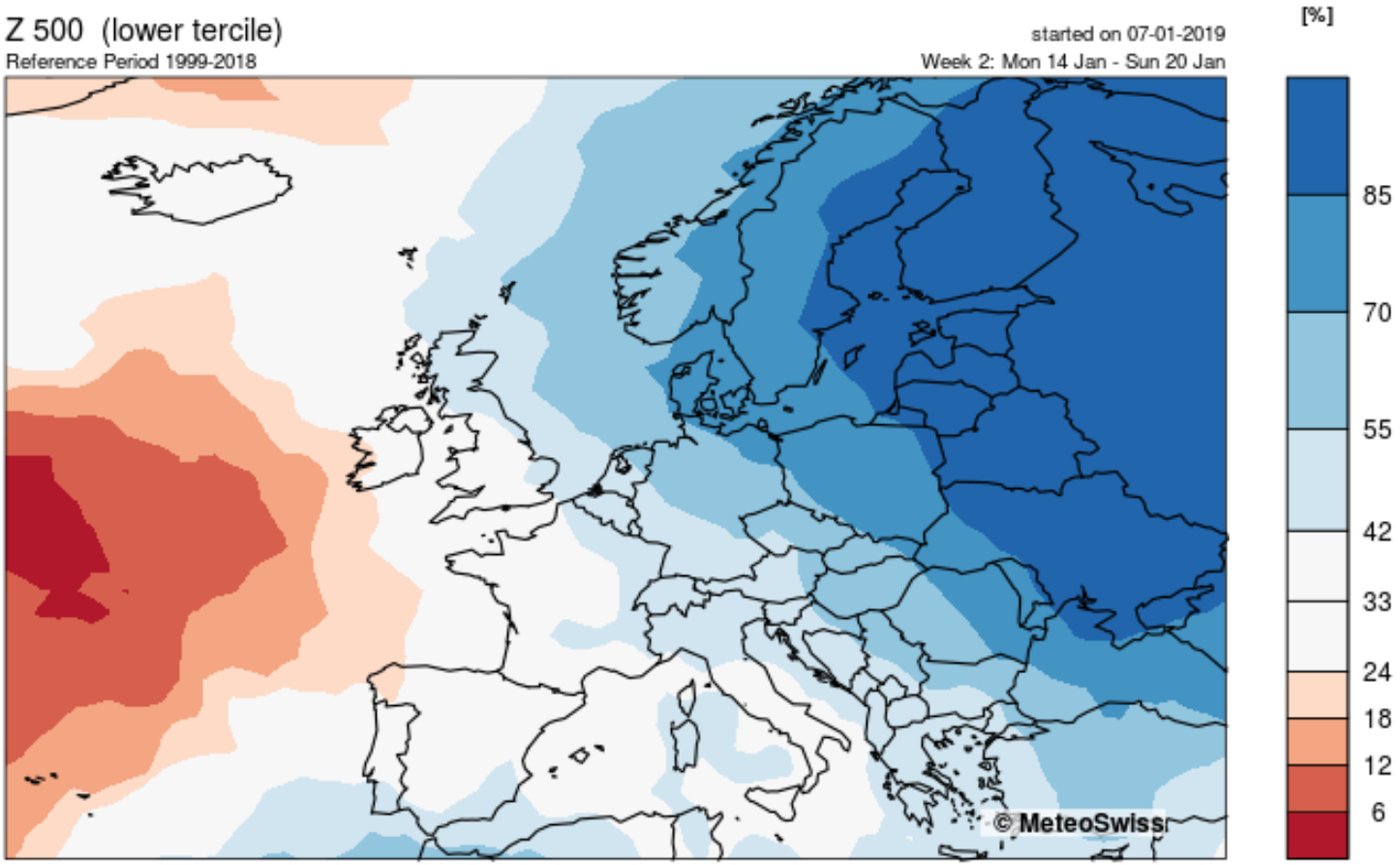


Favonio persistente

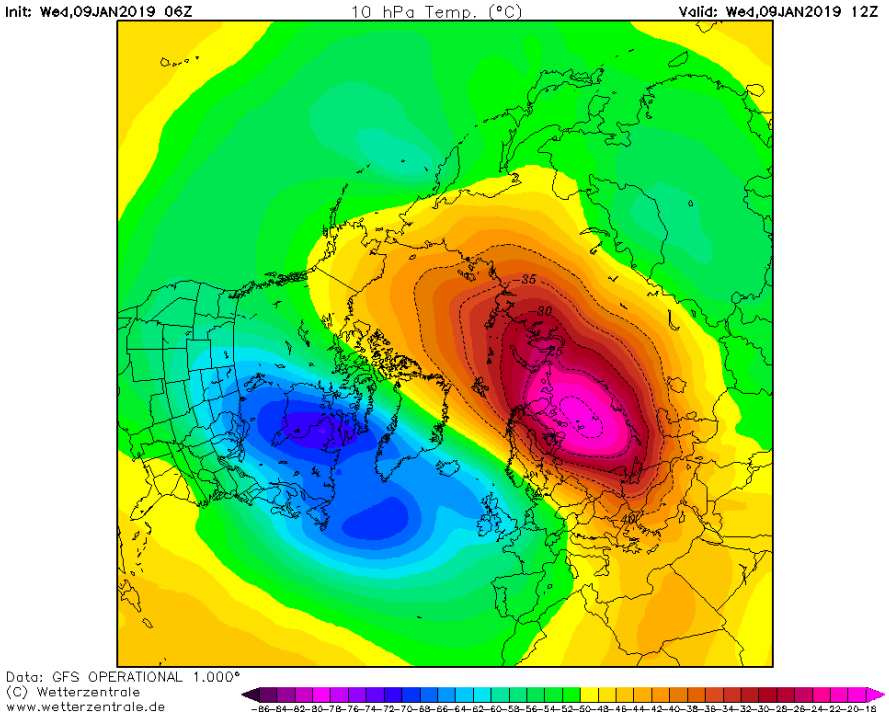


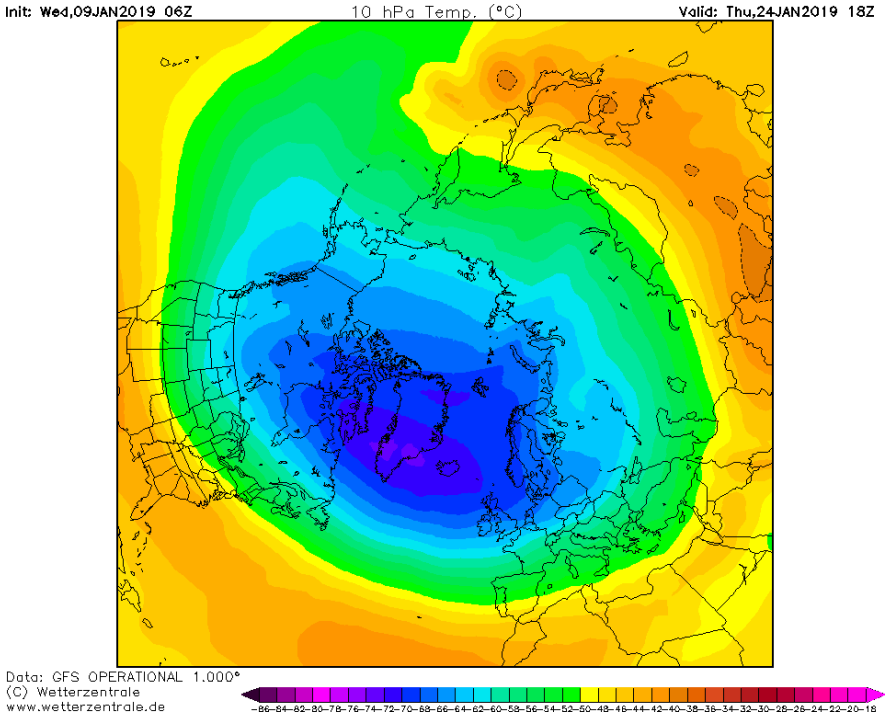


Previsione giorno +8 / +14

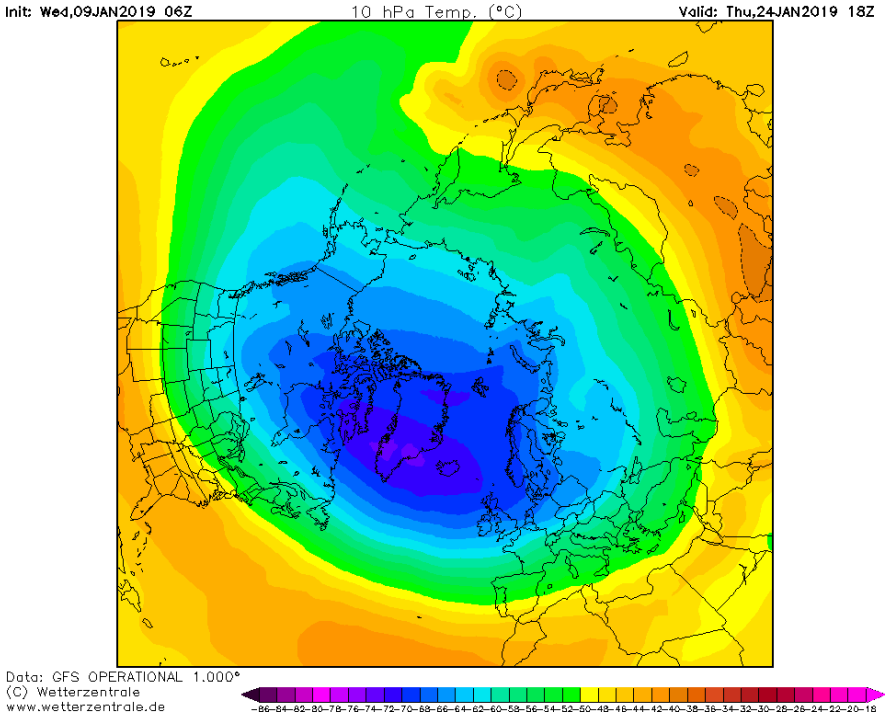


Stratospheric Warming…e i media sono subito in allerta per freddo artico su tutta l'Europa!

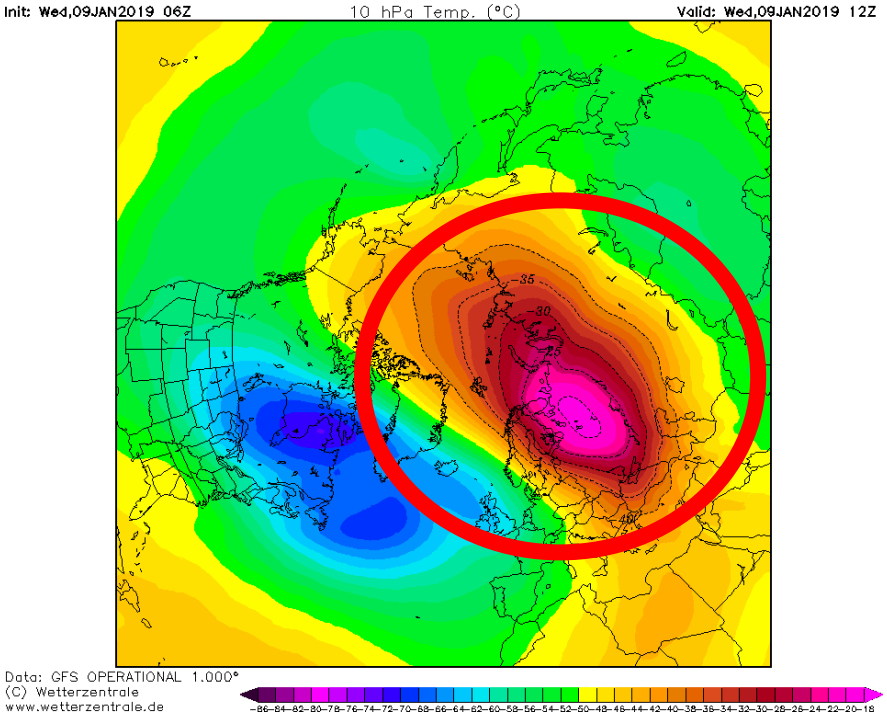




Vortice polare stratosferico «normale»



Vortice polare stratosferico «disturbato»



Stratospheric Warming

- Il riscaldamento può essere lieve, moderato o intenso (fino a 60 °C di anomalia);

- rilevabile tramite radiosondaggi atmosferici;

- si presenta in massima parte d'inverno e sembra coinvolgere in misura molto maggiore l'emisfero settentrionale piuttosto che quello meridionale;

- Le cause dello strat-warming sono ancora poco chiare nella comunità scientifica sebbene siano state avanzate ipotesi che coinvolgono l'attività solare da una parte e l'influenza delle onde planetarie dall'altra.

Stratospheric Warming

- la configurazione è stata all'origine delle più intense ondate di gelo che hanno investito il continente europeo (Italia compresa) nel 1929, 1963, 1985, 2018.

- Tale configurazione atmosferica è del tutto temporanea e reversibile ed il vortice polare può ricomporsi dopo 15/20 giorni sulle latitudini di sua competenza;

- Il meccanismo esatto di influenza dello strat-warming sulla bassa troposfera non è noto ed è tuttora oggetto di studi.

Influsso sulla circolazione nella troposfera

- Vortice polare stratosferico «spostato»
- Vortice polare troposferico «spezzettato»