Index of contents

CD = Cloud density

DK = Wind direction (wind rose, 32 sections)

EK = Soil condition Q = Quality bytes

RF = Type of precipitation SA = Type of snow cover

VAK = Identification of type of fallen precipitation

VBK = Identification of type of precipitation at the ground

VCK = Identification of significant weather phenomena

VK = Visibility

WK = Weather phenomena

CD - Cloud density

Code: Discription:

-9 no clouds or CD not reported (only in 90-formats, otherwise blanc)

o straticulate clouds

1 middling cloud density

2 high cloud density

This field is not reported of all stations since 1986

DK - Wind direction (wind rose, 32 sections)

Code: Discription:

-9 no observation of wind (in 90-formats, otherwise blanc)

0 calm

2 NNE *

4 NE

6 ENE *

8 E

10 ESE

12 SE

14 SSE *

16 S

18 SSW *

20 SW

22 WSW *

24 W

26 WNW *

28 NW

30 NNW *

32 N

* Only till 1970 wind rose (16 sections), then wind rose (8 sections)

EK - Soil condition

Code: Discription:

-9 no soil condition reported (only in 90-formats, otherwise blanc)

0 dry

1 moist

2 wet (formation of puddle)

3 flood

4 frozen, solid, dry

5 glaze, black ice

	6	not less than 50% of the soil is covered with fallen, solid precipitation
		(graupel, hail) without snow
	7	not less than 10% of the soil (marks and more) is covered with solid or wet snow
	8	not less than 10% of the soil (marks and more) is covered with loose or dry snow
	9	closed snow cover with not less than 50 cm high snow drifts
	EK = 0 - 5	the rest of the cover can remain of
		- solid precipitation (< 10%) with snow or patches
		- solid precipitation (>=10% but < 50%) without snow
	EK = 6	the cover of solid precipitation may not content snow
	EK = 7 - 9	the snow cover must content snow
	until 31.12.198	5 the following Code is valid:
	0	dry
	1	moist
	2	wet, flood, (formation of puddle)
	3	frozen, solid and dry
	4	covered partial with snow, graupel and/or hail
	5	covered with ice or glaze
	6	covered with melting snow cover
	7	not frozen soil but covered with snow, less than 15 cm high
	8	frozen soil and covered with snow, less than 15 cm high
	9	covered with snow, more than 15 cm high
	EK = 0,1,2,3	rest of snow present
Q	Quality bytes	
Q	Code:	Discription:
	blanc	no quality control
	0	no quality control
		field professional correct (after check without correction)
	1	field corrected (automatic or after check and correction)
	2 3	field confirmed (after check and complaint aware no correction)
		field added/evaluated (field is missing in raw data)
	4	,
	5 6	field complainted (no correction or confirmation) field in form true (but not professional checked)
		,
	7 8	field in form false (professional check is not possible) field missed but must not be missed
	9 	field missed (no measurement or engaged identifier for no data)
RF	- Type of prec	
	Code:	Discription:
	0	no precipitation (only in 90-formats, before blanc)
	1	only precipitation (only in 90-formats, before blanc)
	4	Type of precipitation not known, though precipitation is reported
	7	only snow
	0	propinitation and anow and/or alact

precipitation and snow and/or sleet

from 01/1986 assessed as snow

till 12/1985 hail, snow grains and graupel assessed as precipitation,

identifier for no data

SA - Type of snow cover

8

9

Remark:

Code: Discription:

- 1 closed snow cover (only in 90-formats, before blanc)
- **D** snow cover <100% and >=50% (broken)
- **F** snow cover < 50% and >=10% (patches)
- R snow cover < 10% and > 0% and no measured snow high (rests)
- **0** no snow (only in 90-formats, before blanc)
- **9** identifier for no data (only in 90-formats, before blanc)

VAK - Identification of type of fallen precipitation

Information, if in the time 00-24 h rain, snow, graupel, hail or frozen precipitation is fallen.

VAK can be used in 5 numbers:

number	event
1.	rain
2.	frozen rain
3.	snow
4.	graupel
5.	hail

VAK	1.	2.	3.	4.	5.
1	1	0	0	0	0
2	0	0	1	0	0
3	0	0	0	1	0
4	0	0	0	0	1
5	1	0	1	0	0
6	1	0	0	1	0
7	1	0	0	0	1
8	0	0	1	1	0
9	0	0	0	1	1
10	1	0	1	1	0
11	1	0	0	1	1
12	0	0	1	0	1
13	1	0	1	0	1
14	0	0	1	1	1
15	1	0	1	1	1
21	1	1	0	0	0

VAK = 21 - 35: reported first from 01.01.1986, before rain and frozen rain indistinguishable

VBK - Identification of type of precipitation at the ground

Information, if in the time 00-24 h one or more of the following event occured: dew, rime, sediments of frozen fog, glaze / black ice, closed snow cover

VBK can be used in 6 numbers:

number: event: dew 2. rime

- 3. hoarfrost
- **4.** glazed frost, clear ice
- **5.** glaze, black ice
- **6.** closed or broken cover of solid precipitation

VBK	1.	2.	3.	4.	5.	6.
1	1	0	0	0	0	0
2	0	0	0	0	1	0
3	0	1	0	0	0	0
4	0	0	1	0	0	0
5	1	0	0	0	1	0
6	0	1		1	1	0
7			0			
	0	0	1	0	1	0
8	0	1	1	0	0	0
9	0	1	1	0	1	0
10	1	1	0	0	0	0
11	1	0	0	1	1	0
12	1	0	1	0	0	0
13	1	0	1	0	1	0
14	1	1	1	0	0	0
15	1	1	1	0	1	0
24	0	0	1	1	0	0
25	1	0	1	1	1	0
26	0	1	1	1	1	0
27	0	0	1	1	1	0
28	0	1	1	1	0	0
29	0	1	1	1	1	0
30	1	1	1	1	0	0
31	1	1	1	1	1	0
32	1	0	1	1	0	0
33	1	0	1	1	1	0
34	1	1	1	1	0	0
35	1	1	1	1	1	0
40	0	0	0	0	0	1
41	1	0	0	0	0	1
42	0	0	0	0	1	1
43	0	1	0	0	0	1
44	0	0	1	0	0	1
45	1	0	1	0	1	1
46	0	1	0	0	1	1
47	0	0	1	0	1	1
48	0	1	1	0	0	1
49	0	1	1	0	1	1
50	1	1	0	0	0	1
51	1	1	0	0	1	1
52	1	0	1	0	0	1
53	1	0	1	0	1	1
54	1	1	1	0	0	1
55	1	1	1	0	1	1
64	0	0	1	1	0	1
65	1	0	1	1	1	1
66	0	1	1	1	1	1
67	0	0	1	1	1	1
68	0	1	1	1	0	1
69	0	1	1	1	1	1
70	1	1	1	1	0	1

71	1	1	1	1	1	1
72	1	0	1	1	0	1
73	1	0	1	1	1	1
74	1	1	1	1	0	1
75	1	1	1	1	1	1

VBK = 40 - 64: reported first from 01.01.1966, before no information about cover of solid precipitation. Sediments of frozen fog are often not distinguished from glazed frost and/or clear

VCK - Identification of significant weather phenomena

Information, if in the time 00-24 h fog, thunder storm, heavy and/or stormier wind occured.

VCK can be used in 4 numbers:

number = 0: event not occured
number = 1: event occured
number = 9: VAK= -9

number: event: fog

2. thunder storm

3. wind \geq 6 Bft aber \leq 8 Bft

4. wind >= 8 Bft

VCK	1.	2.	3.	4.
1	1	0	0	0
2	0	1	0	0
3	0	0	1	0
4	0	0	0	1
5	1	1	0	0
6	1	0	1	0
7	1	0	0	1
8	0	1	1	0
9	0	1	0	0
10	1	1	1	0
11	1	1	0	1

VK - Visibility

V IX	-	visibility	
		Code:	Discription:
		-9	VK not assess (only in 90-formats, otherwise blanc)
		0	visibility < 50 m
		1	50 m <= visibility < 200 m
		2	200 m <= visibility < 500 m
		3	500 m <= visibility < 1 km
		4	1 km <= visibility < 2 km
		5	2 km <= visibility < 4 km
		6	4 km <= visibility < 10 km
		7	10 km <= visibility < 20 km
		8	20 km <= visibility < 50 km
		9	visibility >= 50 km

Code -9	Discription WK not reported (in 90-formats, otherwise blanc)
0	no significant weather (in 90-formats, otherwise blanc)
4	fog
5	drizzle
6	rain
7	snow
8	shower
9	thunder storm
45	drizzle and fog
46	rain and fog
47	snow and fog
48	shower and fog
49	thunder storm and fog
WK	not reported since 1971