

# Parameters (DKSS)

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## About DKSS parameters

The parameters available for DMI's DKSS model are listed below along with a description and the unit of the parameter. The parameters are available in up to 52 vertical layers.

The surface layer of DKSS is 8 meters thick in North Sea-Baltic Sea and Wadden Sea model areas and 2 meters thick in the remaining model areas. Below that the layers are 2 meters thick below the 8 meter surface layer and 1 meter thick below the 2 meter surface layer. Towards the ocean floor, the thickness of the layers increase and the bottom layer does not have a fixed thickness, but extends from the bottom of the second lowest layer to the ocean floor.

Bands 1-9 in below are the same for all models but the following bands differ due to the number of depth layers in the model and the distance between these layers. The surface layer is encoded twice: with depth=0, and with depth=middle-of-top-layer. The reason being that surface data is represented by different depths in different model domains. A parameter with vertical dependency is thereby represented by n+1 records, n being the number of vertical layers.

Current, temperature and salinity may be said to represent the vertical mean value of the layer in question. The encoded depth is the midpoint of the layer.

## North Sea Baltic Sea (dkss\_nsbs)

Band	ID	Depth in meters below sea level	Parameter code	Unit	Description
1	82	0	DSLML	m	Deviation of sea level from mean
2	33	0	UGRD	m/s	u-component of wind
3	34	0	VGRD	m/s	v-component of wind
4	49	0	UOGRD	m/s	u-component of current
5	50	0	VOGRD	m/s	v-component of current
6	80	0	WTMP	deg. C	Water temperature
7	88	0	SALTY	g/kg	Salinity
8	92	0	ICETK	m	Ice thickness
9	91	0	ICEC	fraction	Ice concentration (ice=1;no ice=0)
10-59	49	4-525	UOGRD	m/s	u-component of current
60-109	50	4-525	VOGRD	m/s	v-component of current
110-159	80	4-525	WTMP	deg. C	Water temperature
160-209	88	4-525	SALTY	g/kg	Salinity

## Inner Danish Waters (dkss\_idw)

Band	ID	Depth in meters below sea level	Parameter code	Unit	Description
1	82	0	DSLML	m	Deviation of sea level from mean
2	33	0	UGRD	m/s	u-component of wind
3	34	0	VGRD	m/s	v-component of wind
4	49	0	UOGRD	m/s	u-component of current
5	50	0	VOGRD	m/s	v-component of current
6	80	0	WTMP	deg. C	Water temperature
7	88	0	SALTY	g/kg	Salinity
8	92	0	ICETK	m	Ice thickness
9	91	0	ICEC	fraction	Ice concentration (ice=1;no ice=0)
10-61	49	1-75	UOGRD	m/s	u-component of current
62-113	50	1-75	VOGRD	m/s	v-component of current
114-165	80	1-75	WTMP	deg. C	Water temperature
166-217	88	1-75	SALTY	g/kg	Salinity

### Wadden Sea (dkss\_ws)

Band	ID	Depth in meters below sea level	Parameter code	Unit	Description
1	82	0	DSLML	m	Deviation of sea level from mean
2	33	0	UGRD	m/s	u-component of wind
3	34	0	VGRD	m/s	v-component of wind
4	49	0	UOGRD	m/s	u-component of current
5	50	0	VOGRD	m/s	v-component of current
6	80	0	WTMP	deg. C	Water temperature
7	88	0	SALTY	g/kg	Salinity
8	92	0	ICETK	m	Ice thickness
9	91	0	ICEC	fraction	Ice concentration (ice=1;no ice=0)
10-31	49	4-49	UOGRD	m/s	u-component of current
32-53	50	4-49	VOGRD	m/s	v-component of current
54-75	80	4-49	WTMP	deg. C	Water temperature
76-97	88	4-49	SALTY	g/kg	Salinity

### Isefjord (dkss\_if)

Band	ID	Depth in meters below sea level	Parameter code	Unit	Description
1	82	0	DSLML	m	Deviation of sea level from mean
2	33	0	UGRD	m/s	u-component of wind
3	34	0	VGRD	m/s	v-component of wind
4	49	0	UOGRD	m/s	u-component of current
5	50	0	VOGRD	m/s	v-component of current
6	80	0	WTMP	deg. C	Water temperature
7	88	0	SALTY	g/kg	Salinity

8	92	0	ICETK	m	Ice thickness
9	91	0	ICEC	fraction	Ice concentration (ice=1;no ice=0)
10-19	49	1-11	UOGRD	m/s	u-component of current
20-29	50	1-11	VOGRD	m/s	v-component of current
30-39	80	1-11	WTMP	deg. C	Water temperature
40-49	88	1-11	SALTY	g/kg	Salinity

## Limfjord (dkss\_lf)

Band	ID	Depth in meters below sea level	Parameter code	Unit	Description
1	82	0	DSLML	m	Deviation of sea level from mean
2	33	0	UGRD	m/s	u-component of wind
3	34	0	VGRD	m/s	v-component of wind
4	49	0	UOGRD	m/s	u-component of current
5	50	0	VOGRD	m/s	v-component of current
6	80	0	WTMP	deg. C	Water temperature
7	88	0	SALTY	g/kg	Salinity
8	92	0	ICETK	m	Ice thickness
9	91	0	ICEC	fraction	Ice concentration (ice=1;no ice=0)
10-30	49	1-22	UOGRD	m/s	u-component of current
31-51	50	1-22	VOGRD	m/s	v-component of current
52-72	80	1-22	WTMP	deg. C	Water temperature
73-93	88	1-22	SALTY	g/kg	Salinity

## Little Belt (dkss\_lb)

Band	ID	Depth in meters below sea level	Parameter code	Unit	Description
1	82	0	DSLML	m	Deviation of sea level from mean
2	33	0	UGRD	m/s	u-component of wind
3	34	0	VGRD	m/s	v-component of wind
4	49	0	UOGRD	m/s	u-component of current
5	50	0	VOGRD	m/s	v-component of current
6	80	0	WTMP	deg. C	Water temperature
7	88	0	SALTY	g/kg	Salinity
8	92	0	ICETK	m	Ice thickness
9	91	0	ICEC	fraction	Ice concentration (ice=1;no ice=0)
10-51	49	1-55	UOGRD	m/s	u-component of current
52-93	50	1-55	VOGRD	m/s	v-component of current
94-135	80	1-55	WTMP	deg. C	Water temperature
136-177	88	1-55	SALTY	g/kg	Salinity