

Each line in the list in this document contains information about a 2-dimensional field that is stored in the RCA simulation.

The combination of the numbers in the first column is used for unique identification of each field. The first number (par) is a code identifying the parameter, the second (type) identifies which kind of vertical level that is used (100 - pressure level, 102,103 - sea surface, 105 - surface, column integrated, or parameter at some given height or height interval defined by the parameter long name, 109 - model level) and the third (lev) which level it is. The level is given in hPa for pressure levels, as numbers starting from the top of the atmosphere for model levels. For surface variables 0,2 or 10 are in meters above the surface. Soil layers are numbered 1-5 in the long names for temperature where number 1 is closest to the surface (0-0.01m), 2 (0.01-0.062), 3 (0.062-0.21), 3 (0.21-0.72), 4 (0.72-1.89) and 5 (below 1.89m). For soil water there are two layers (the top one between the surface and 0.072m and the deep layer below 0.072m). In addition to the mentioned levels for parameters of type 105 there are some others that are used in combination with par to identify the variable. Some of these are:

par=241, type=105, lev=nn (in list below) for max/min values over forecast output interval
 par=242, type=105, lev=nn (in list below) for mean value over forecast output interval of diagnostic surface variables
 par=243, type=105, lev=nn for lake model Flake prognostic variables
 par=244, type=105, lev=nn for lake model Flake diagnostic variables
 par=250, type=105, lev=nn (in list below) for instantaneous output of diagnostic surface variables
 par=252, type=105, lev=nn (in list below) for prognostic surface variables

The second column in the list gives a short name (if any) , the third a long name, the fourth the unit and the last column indicates at which output interval the data has been stored (where m is minutes and H is hours). A (*) in the last column indicates that the parameter has been averaged, accumulated or compiled based on all timesteps over the output interval.

1	103	0		Sea Level Pressure	Pa	3H
1	105	0		Surface Pressure	Pa	30m
6	100	100	gpot	Geopotential Height	$m^2 s^{-2}$	24H
6	100	300		Geopotential Height	$m^2 s^{-2}$	24H
6	100	500		Geopotential Height	$m^2 s^{-2}$	6H
6	100	700		Geopotential Height	$m^2 s^{-2}$	24H
6	100	850		Geopotential Height	$m^2 s^{-2}$	6H
6	100	925		Geopotential Height	$m^2 s^{-2}$	24H
11	102	0		Sea Surface Temperature	K	6H
11	105	0		Surface Temperature	K	6H
11	105	999		Deep soil temperature (7.2-87.2 cm)	K	24H
11	105	998		Bottom clim. soil temperature	K	24H
11	100	100	t	Temperature	K	24H
11	100	300		Temperature	K	24H
11	100	500		Temperature	K	6H
11	100	700		Temperature	K	24H
11	100	850		Temperature	K	6H
11	100	925		Temperature	K	24H
11	109	22	t	Temperature	K	6H
11	109	23		Temperature	K	6H
11	109	24		Temperature	K	6H
11	109	24		Temperature	K	30m
15	105	0		Surface Maximum Temperature	K	24H*
15	105	2		2m Maximum Temperature	K	24H*
16	105	0		Surface Minimum Temperature	K	24H*
16	105	2		2m Minimum Temperature	K	24H*
32	105	10		10m maximum wind speed	$m s^{-1}$	3H*

33	100	100	u	U-component of Wind	$m s^{-1}$	24H
33	100	300		U-component of Wind	$m s^{-1}$	24H
33	100	500		U-component of Wind	$m s^{-1}$	6H
33	100	700		U-component of Wind	$m s^{-1}$	12H
33	100	850		U-component of Wind	$m s^{-1}$	6H
33	100	925		U-component of Wind	$m s^{-1}$	24H
33	109	22	u	U-component of Wind	$m s^{-1}$	6H
33	109	23		U-component of Wind	$m s^{-1}$	6H
33	109	24		U-component of Wind	$m s^{-1}$	6H
33	109	24		U-component of Wind	$m s^{-1}$	30m
34	100	100	v	V-component of Wind	$m s^{-1}$	24H
34	100	300		V-component of Wind	$m s^{-1}$	24H
34	100	500		V-component of Wind	$m s^{-1}$	6H
34	100	700		V-component of Wind	$m s^{-1}$	12H
34	100	850		V-component of Wind	$m s^{-1}$	6H
34	100	925		V-component of Wind	$m s^{-1}$	24H
34	109	22	v	V-component of Wind	$m s^{-1}$	6H
34	109	23		V-component of Wind	$m s^{-1}$	6H
34	109	24		V-component of Wind	$m s^{-1}$	6H
34	109	24		V-component of Wind	$m s^{-1}$	30m
39	100	100		Vertical Velocity (omega)	$Pa s^{-1}$	24H
39	100	300		Vertical Velocity (omega)	$Pa s^{-1}$	24H
39	100	500		Vertical Velocity (omega)	$Pa s^{-1}$	6H
39	100	700		Vertical Velocity (omega)	$Pa s^{-1}$	24H
39	100	850		Vertical Velocity (omega)	$Pa s^{-1}$	6H
39	100	925		Vertical Velocity (omega)	$Pa s^{-1}$	24H
51	109	22	q	Specific Humidity	$kg kg^{-1}$	6H
51	109	23		Specific Humidity	$kg kg^{-1}$	6H
51	109	24		Specific Humidity	$kg kg^{-1}$	6H
51	109	24		Specific Humidity	$kg kg^{-1}$	30m
52	100	100		Relative Humidity	-	24H
52	100	300		Relative Humidity	-	24H
52	100	500		Relative Humidity	-	6H
52	100	700		Relative Humidity	-	24H
52	100	850		Relative Humidity	-	6H
52	100	925		Relative Humidity	-	24H
54	105	3006		Precipitable water	$kg m^{-2}$	6H
58	105	3006		Cloud ice	$kg m^{-2}$	6H
61	105	0		Total Precipitation	$mm s^{-1}$	30m
62	105	4006		Large Scale Precipitation	$mm (output int)^{-1}$	3H
63	105	4006		Convective Precipitation	$mm (output int)^{-1}$	3H
65	105	0		Snowfall	$mm s^{-1}$	30m
67	105	0		Mixed Layer Depth	m	3H
71	105	0	cov2d	Total Cloud Cover	-	3H
71	109	22	totcov	Total Cloud Cover	-	6H
71	109	23		Total Cloud Cover	-	6H
71	109	24		Total Cloud Cover	-	6H
73	105	0		Low Cloud Cover (surface-800 hPa)	-	6H
74	105	0		Medium Cloud Cover (800-450 hPa)	-	6H
75	105	0		High Cloud Cover (above 450 hPa)	-	6H
76	105	3006		Cloud Water	$kg m^{-2}$	6H
76	109	22	cw	Cloud Water	$kg m^{-2}$	6H
76	109	23		Cloud Water	$kg m^{-2}$	6H

76	109	24	Cloud Water	kg m ^{-2}	6H
78	105	4006	Convective Snow Precipitation	mm (output int) ^{-1}	6H*
79	105	4006	Large Scale Snow Precipitation	mm (output int) ^{-1}	6H*
90	105	4006	Water run-off	mm (output int) ^{-1}	6H*
91	102	0	Sea or Lake Ice Concentration	-	24H
92	102	0	Lake Ice Thickness	m	24H
111	105	3006	Short Net Radiation. Surf	W m ^{-2}	6H*
112	105	3006	Long Net Radiation. Surf.	W m ^{-2}	6H*
113	105	3006	Short-Wave Net Radiation. TOA	W m ^{-2}	6H*
114	105	3006	Long Net Radiation. TOA	W m ^{-2}	6H*
115	105	3006	Downw. Long-Wave Radiation Surf.	W m ^{-2}	6H*
115	105	0	Downw. Long-Wave Radiation Surf.	W m ^{-2}	30m
116	105	3006	Downw. Short-Wave Radiation Surf.	W m ^{-2}	6H*
116	105	0	Downw. Short-Wave Radiation Surf.	W m ^{-2}	30m
117	105	3006	Downw. Short-Wave Radiation TOA	W m ^{-2}	6H*
240	105	4006	Acc. sunshine hours	hrs (output int) ^{-1}	24H*
241	105	14	max of lake and/or sea water wind speed	m s ^{-1}	3H*
241	105	18	mean over output int. of tot. wind over all water	m s ^{-1}	3H*
			points!		
241	105	19	max of relative humidity 2m	-	24H*
241	105	20	min of relative humidity 2m	-	24H*
241	105	21	gustest	max of estimated gust wind	m s ^{-1}
241	105	22	gustlow	max of lower bound of gust wind	m s ^{-1}
241	105	23	gustup	max of upper bound of gust wind	m s ^{-1}
242	105	25	senf	grid averaged sensible heat flux (H)	W m ^{-2}
242	105	31	latf	grid averaged latent heat flux (LE)	W m ^{-2}
242	105	49	momf	grid averaged momentum flux (rho*ustar**2)	N m ^{-2}
242	105	66	evap	latf with unit	mm (output int) ^{-1}
242	105	67	latfp1	potential evapotranspiration	mm day ^{-1}
242	105	89	frsngrid	grid averaged snow cover	-
242	105	91	cloudbot	lowest cloud level	m
242	105	95	tsland1	land averaged 1 soil temp	K
242	105	96	tsland2	land averaged 2 soil temp	K
242	105	97	tsland3	land averaged 3 soil temp	K
242	105	98	tsland4	land averaged 4 soil temp	K
242	105	99	tsland5	land averaged 5 soil temp	K
242	105	100	tice1	averaged tice and ticesn temp	K
242	105	101	tice2	averaged ticed and ticesnd temp	K
250	105	1	t2	grid averaged T2m	K
250	105	3	t2mopsn	open land and snow averaged T2m	K
250	105	4	t2mfor	forest (bare soil and snow) T2m	K
250	105	5	t2ms	lake and/or sea water T2m	K
250	105	6	t2mi	lake and/or sea ice and snow averaged T2m	K
250	105	7	q2	grid averaged q2m	kg kg ^{-1}
250	105	9	q2mopsn	open land and snow averaged q2m	kg kg ^{-1}
250	105	10	q2mfor	forest (bare soil and snow) q2m	kg kg ^{-1}
250	105	11	q2ms	lake and/or sea water q2m	kg kg ^{-1}
250	105	12	q2mi	lake and/or sea ice and snow averaged q2m	kg kg ^{-1}
250	105	13	u10	grid averaged u10	m s ^{-1}
250	105	15	u10opsn	open land and snow averaged u10	m s ^{-1}
250	105	17	u10ms	lake and/or sea water u10	m s ^{-1}
250	105	18	u10mi	lake and/or sea ice and snow averaged u10	m s ^{-1}
250	105	19	v10	grid averaged v10	m s ^{-1}

Note: =-1 for no-water

250	105	21	v10opsn	open land and snow averaged v10	$m s^{-1}$	3H
250	105	23	v10ms	lake and/or sea water v10	$m s^{-1}$	3H
250	105	24	v10mi	lake and/or sea ice and snow averaged v10	$m s^{-1}$	3H
250	105	53	frsn	fraction snow on open land (0-1)	-	24H
250	105	54	frsnfor	fraction snow in forest (0-1)	-	24H
250	105	59	albedo	grid averaged albedo	-	6H
250	105	68	sn	grid averaged snow water eq.	m	6H
250	105	69	tsopsn1	open land/snow averaged 1 soil temp	K	3H
250	105	73	tsopsn5	open land/snow averaged 5 soil temp	K	24H
250	105	74	tsfor1	forest bare soil/snow averaged 1 soil temp	K	3H
250	105	78	tsfor5	forest bare soil/snow averaged 5 soil temp	K	24H
250	105	79	swa	soil water availability	-	24H
250	105	80	lwlai	land-averaged LAI	-	24H
250	105	83	rh2	grid averaged relative humidity 2m (rh2m)	-	3H
250	105	91	cloudbot	lowest cloud level	m	6H
250	105	95	tsland1	land averaged 1 soil temp	K	24H
250	105	96	tsland2	land averaged 2 soil temp	K	24H
250	105	97	tsland3	land averaged 3 soil temp	K	24H
250	105	98	tsland4	land averaged 4 soil temp	K	24H
250	105	99	tsland5	land averaged 5 soil temp	K	24H
250	105	100	tice1	averaged tice and ticesn temp	K	24H
250	105	101	tice2	averaged ticed and ticesnd temp	K	24H
252	105	8	snopl	open land snow (Sn Water Eq), land-value	m	24H
252	105	9	snfor	forest snow (Sn Water Eq), land-value	m	24H
252	105	11	rhosn	density of open land snow	$kg m^{-3}$	24H
252	105	18	rhosnc	density of forest snow	$kg m^{-3}$	24H
252	105	44	sw	top soil water	m	6H
252	105	45	swd	deep soil water (normalized to top layer depth) (must be recalculated to actual amount)	m	6H