Universität Trier
Umweltmeteorologie

CCLM Variables

In out01:

W_SO	soil water content
W_SNOW	surface snow amount
W_I	lwe_thickness_of_canopy_water_amount
W	vertical wind velocity
V	V-component of wind
U	U-component of wind
T_SO	soil temperature
T_SNOW	snow surface temperature
T_S	soil surface temperature
T	temperature
QV_S	surface specific humidity
QV	specific humidity
QS	specific snow content
QR	specific rain content
QI	specific cloud ice content
QC	specific cloud liquid water content
PP	deviation from reference pressure
FRESHSNW	freshness of snow

Constant file:

HHL	height
HSURF	surface height
FIS	surface geopotential
FC	coriolis parameter
FR_LAND	land-sea fraction
SOILTYP	soil type
FOR_E	ground fraction covered by evergreen forest
FOR_D	ground fraction covered by deciduous forest
SSO_STDH	standard deviation of sub-grid scale orography
SSO_GAMMA	anisotropy of sub-grid scale orography
SSO_THETA	angle between principal axis of orography and east
SSO_SIGMA	mean slope of sub-grid scale orography
ALB_DRY	dry soil albedo
ALB_SAT	saturated soil albedo

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In out02:

RUNOFF_S	surface runoff
RUNOFF_G	subsurface runoff
H_SNOW	thickness of snow
CLCM	medium cloud cover
CLCL	low cloud cover
CLCH	high cloud cover
AVMFL_S	averaged northward stress
AUMFL_S	averaged eastward stress
AEVAP_S	surface evaporation
RELHUM_2M	2m relative humidity
V_10M	V-component of 10m wind
U_10M	U-component of 10m wind
T_2M	2m temperature
QV_2M	2m specific humidity
PS	surface pressure
PMSL	mean sea level pressure
DURSUN	duration of sunshine
CLCT	total cloud cover
ATHB_T	averaged TOA outgoing longwave radiation
ATHB_S	averaged surface net downward longwave radiation
ASOB_S	averaged surface net downward shortwave radiation
ASOB_T	averaged TOA net downward shortwave radiation
ASHFL_S	averaged surface sensible heat flux
ALHFL_S	averaged surface latent heat flux
ALB_RAD	surface albedo
TOT_PREC	total precipitation amount
SNOW_GSP	large scale snowfall
RAIN_GSP	large scale rainfall
SNOW_CON	convective snowfall
RAIN_CON	convective rainfall

In out03 (300,400,500,800,850hPa):

RELHUM	relative humidity
V	V-component of wind
U	U-component of wind
T	temperature
QV	specific humidity
FI	geopotential

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Vertical coordinate:

k	Z(k)	P0(k)
1	22700.0000	40.2617
2	20800.0000	53.9582
3	19100.0000	69.9812
4	17550.0000	88.5358
5	16150.0000	109.2943
6	14900.0000	131.6959
7	13800.0000	154.9601
8	12785.0000	179.8255
9	11875.0000	205.2591
10	11020.0000	232.1785
11	10205.0000	260.8520
12	9440.0000	290.6994
13	8710.0000	322.0619
14	8015.0000	354.7448
15	7355.0000	388.5191
16	6725.0000	423.4133
17	6130.0000	458.8960
18	5565.0000	494.9887
19	5035.0000	531.0771
20	4530.0000	567.5646
21	4060.0000	603.4411
22	3615.0000	639.1762
23	3200.0000	674.1020
24	2815.0000	707.9242
25	2455.0000	740.8198
26	2125.0000	772.0769
27	1820.0000	801.9229
28	1545.0000	829.6353
29	1295.0000	855.4984
30	1070.0000	879.3281
31	870.0000	900.9547
32	695.0000	920.2247
33	542.0000	937.3394
34	412.0000	952.0786
35	303.0000	964.5774
36	214.0000	974.8783
37	143.0000	983.1576
38	89.0000	989.4914
39	49.0000	994.2036
40	20.0000	997.6309
41	0.0000	1000.0000

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