

Monthly Average Files			
2-Dimensional Surface Variables			
Variable Code	Description	Units	Frequency (h)
TA	Average minimum anemometer temperature	°K	3
TAMAX	Average maximum anemometer temperature	°K	3
TAMIN	Average minimum anemometer temperature	°K	3
TAMAXA*	Absolute maximum anemometer temperature	°K	3
TAMINA*	Absolute minimum anemometer temperature	°K	3
TG	Ground temperature	°K	3
TGMAX	Average maximum ground temperature	°K	3
TGMIN	Average minimum ground temperature	°K	3
TF	Average foliage temperature	°K	3
T0*	Number of days with TA < 0°C	count	3
T33*	Number of days with TA > 33°C	count	3
GDD10*	Growing degree days, base 10°C	count	3
GDD5*	Growing degree days base 5°C	count	3
CDD*	Cooling degree days base 15.5°C	count	3
HDD*	Heating degree days base 15.5°C	count	3
SWI	Solar radiation incident at the surface	W m ⁻²	3
SWN	Net solar radiation absorbed	W m ⁻²	3
LWD	Downward longwave radiation	W m ⁻²	3
LWN	Net longwave radiation	W m ⁻²	3
SH	Sensible heat flux	W m ⁻²	3
ET	Evapotranspiration	mm d ⁻¹	3
RT	Total precipitation	mm d ⁻¹	3
RC	Total convective precipitation in RT	mm d ⁻¹	3
P2*	Number of precipitation events < 2 mm per 6h period	count	6
P2_10*	Number of precipitation events 2 ≤ P < 10 mm per 6h period	count	6
P_10_25*	Number of precipitation events 10 ≤ P < 25 mm per 6h period	count	6
P_25*	Number of precipitation events P ≥ 25 mm per 6h period	count	6
CA1*	Convection < 1 mm per 6h period	count	3
CA2*	Convection ≥ 1 mm per 6h period	count	3
SNOW	Snow water equivalent	mm	3
QA	Anemometer specific humidity	kg kg ⁻¹	3
RHA	Anemometer relative humidity	fraction	3
RNFS	Surface runoff from soil model	mm d ⁻¹	3
RB	Base flow from soil model	mm d ⁻¹	3
SMU	Top layer soil model moisture	mm	3
SMR	Root Layer soil model moisture	mm	3
SMT	Total soil model moisture	mm	3
TOTRO*	Total runoff (pseudo hydrograph)	mm	3
UA	Anemometer eastward wind	m s ⁻¹	3
VA	Anemometer northward wind	m s ⁻¹	3
UMAG6*	Number of 3-hr wind velocity events > 6ms ⁻¹	m s ⁻¹	3
W10MX	Maximum 10 m wind speed	m s ⁻¹	3
ZPBL	Planetary boundary layer height	m	3
DRAG	Surface drag stress	N m ⁻²	3
PSRF	Surface pressure	hPa	3

PSMIN	Minimum surface pressure	hPa	3
SLP	Sea level pressure	hPa	6
CLRLS	Clear sky long wave surface cooling	W m ⁻²	6
CLRLT	Clear sky net upward long wave radiation	W m ⁻²	6
CRLST	Clear sky column absorbed solar radiation	W m ⁻²	6
FIRTP	Net upward radiative flux at the top of the atmosphere	W m ⁻²	6
FLW	Long wave radiation cooling at the surface	W m ⁻²	6
FSW	Solar radiation absorbed at the surface	W m ⁻²	6
SABTP	Solar radiation absorbed in the atmospheric column	W m ⁻²	6
SOLIN	Incident solar at the top of the atmosphere	W m ⁻²	6
TOTCLD*	Total cloud fraction	Fraction	6
3-Dimensional Variables on Atmospheric Pressure Levels			
QC_p	Cloud water mixing ratio	kg kg ⁻¹	6
QD_p	Atmospheric mixing ratio	kg kg ⁻¹	6
RH_p	Relative humidity	fraction	6
TD_p	Dew point temperature	°K	6
DIV_p	Horizontal divergence	m s ⁻¹	6
HGT_p	Geopotential height	m	6
TH_p	Potential temperature	°K	6
T_p	Atmospheric temperature	°K	6
U_p	Eastward wind	m s ⁻¹	6
V_p	Northward wind	m s ⁻¹	6
VOR_p	Horizontal vorticity	m s ⁻¹	6
MSE_p	Moist static energy	m ² s ⁻²	6
OMEGA_p	Omega	Pa s ⁻¹	6
Terrain Ht, Vegetation codes, Axes and Projection Information			
Ht	Terrain ht		--
Plev	Pressure-coordinate		--
Time	Time-coordinate		--
Veg	BATS surface type codes		--
X	x-coordinate		--
Xlat	latitude		--
Xlon	longitude		--
Y	y-coordinate		--
Lambert_Conformal	Lambert_Conformal		--

*Indicates variables derived from model fields during post processing