

Table 1: 2D parameter

Parameter	Description	Level	Type	Unit
1hr_evpsbl	Evaporation	-	mean	kg/(m ² s)
1hr_hfls	Surface upward latent heat flux	-	mean	W/m ²
1hr_hfss	Surface upward sensible heat flux	-	mean	W/m ²
1hr_mrro	Total runoff	-	mean	kg/(m ² s)
1hr_mrros	Surface runoff	-	mean	kg/(m ² s)
1hr_pr	Precipitation	-	mean	kg/(m ² s)
1hr_prc	Convective precipitation	-	mean	kg/(m ² s)
1hr_prls	Stratiform precipitation	-	mean	kg/(m ² s)
1hr_prsn	Snowfall flux	-	mean	kg/(m ² s)
1hr_prsnc	Convective snowfall	-	accumulated	kg/(m ² s)
1hr_prsnls	Large scale snowfall	-	accumulated	kg/(m ² s)
1hr_rlds	surface downwelling longwave radiation	-	mean	W/m ²
1hr_rlut	TOA Outgoing Longwave Radiation	-	mean	W/m ²
1hr_rsds	Surface downwelling shortwave radiation	-	mean	W/m ²
1hr_rsdmdir	Surface direct downwelling shortwave radiation	-	mean	
1hr_rsus	Surface upwelling shortwave radiation	-	mean	W/m ²
1hr_sfcWindmax	Hourly maximum of near surface wind speed	10m	maximum	m/s
1hr_sund	Duration of sunshine	-	accumulated	s
1hr_wsgscmax	Hourly maximum near-surface wind speed of gust due to convection	10m	Maximum	m/s
1hr_wsgsmax	Hourly maximum near-surface wind speed of gust	10m	Maximum	m/s
1hr_wsgstmax	Hourly maximum near-surface wind speed of gust due to turbulence	10m	Maximum	m/s
1hrPt_clh	High level cloud area percentage	220hPa	point	%
1hrPt_clivi	Ice water path	-	Point	kg/m ²
1hrPt_cll	Low level cloud cover percentage	840hPa	Point	%
1hrPt_clm	Mid level cloud cover percentage	560hPa	Point	%
1hrPt_clt	Total cloud cover percentage	-	Point	%
1hrPt_clwvi	Condensed water (liquid and ice) path	-	Point	kg/m ²

1hrPt_hfls	Surface upward latent heat flux	-	Point	W/m ²
1hrPt_hfss	Surface upward sensible heat flux	-	Point	W/m ²
1hrPt_hurs	Near surface relative humidity	-	Point	%
1hrPt_huss	Near surface specific humidity	-	Point	1
1hrPt_mrfsoil	Frozen water content of soil layer	Soil layers	Point	kg/m ²
1hrPt_mrsoil	Total water content of soil layer	Soil layers	Point	kg/m ²
1hrPt_prw	Water vapor path	-	Point	kg/m ²
1hrPt_ps	Surface air pressure	-	Point	Pa
1hrPt_psl	Sea level pressure	-	Point	Pa
1hrPt_rlds	Surface downwelling longwave radiation	-	Point	W/m ²
1hrPt_rlut	TOA outgoing longwave radiation	-	Point	W/m ²
1hrPt_rsds	Surface downwelling shortwave radiation	-	Point	W/m ²
1hrPt_rsdmdir	Surface direct downwelling shortwave radiation	-	Point	W/m ²
1hrPt_rsus	Surface upwelling shortwave radiation	-	Point	W/m ²
1hrPt_snc	Snow area percentage	-	Point	%
1hrPt_snd	Snow depth	-	Point	m
1hrPt_snw	Surface snow amount	-	Point	kg/m ²
1hrPt_tas	Near-surface air temperature	2m	Point	K
1hrPt_tauu	Surface downward eastward wind stress	-	Point	Pa
1hrPt_tauv	Surface downward northward wind stress	-	Point	Pa
1hrPt_tdps	2m dewpoint temperature	2m	Point	K
1hrPt_ts	Surface temperature	-	Point	K
1hrPt_tsl	Temperature of soil	Soil layers	Point	K
1hrPt_twp	Total water path	-	Point	kg/m ²
1hrPt_uas	Eastward component of the near-surface wind speed	10m	Point	m/s
1hrPt_vas	Northward component of the near-surface wind speed	10m	Point	m/s
1hrPt_zf	Height of the freezing point	-	Point	m
1hrPt_zmla	Height of the planetary boundary layer	-	Point	m