

Pressure Level Parameters

On 850, 500 and 200 hPa pressure levels

Variable	CF Standard Name	Abbrev	Unit	Frequency
Geopotential Height	geopotential_height	zg	m	Average of instantaneous values at 0Z,6Z,12Z,18Z

On 850 and 200 hPa pressure levels

Variable	CF Standard Name	Abbrev	Unit	Frequency
Zonal Velocity	eastward_wind	ua	m s ⁻¹	Average of instantaneous values at 0Z,6Z,12Z,18Z
Meridional Velocity	northward_wind	va	m s ⁻¹	Average of instantaneous values at 0Z,6Z,12Z,18Z

On 850 hPa pressure level

Variable	CF Standard Name	Abbrev	Unit	Frequency
Specific Humidity	specific_humidity	huss	1	Daily average

On 500 hPa pressure level

Variable	CF Standard Name	Abbrev	Unit	Frequency
Vertical Velocity (omega)	lagrangian_tendency_of_air_pressure	wap	Pa s ⁻¹	Average of instantaneous values at 0Z,6Z,12Z,18Z

On 100 hPa level

Variable	CF Standard Name	Abbrev	Unit	Frequency
Zonal Velocity (v)	northward_wind	va	ms ⁻¹	Average of instantaneous values at 0Z,6Z,12Z,18Z
Temperature	air_temperature	ta	K	Daily Average

On 10 hPa, 30 hPa, and 50 hPa levels

Variable	CF Standard Name	Abbrev	Unit	Frequency
Zonal Velocity (u)	eastward_wind	ua	m s ⁻¹	Average of instantaneous values at 0Z,6Z,12Z,18Z
Meridional Velocity (v)	northward_wind	va	ms ⁻¹	Average of instantaneous values at 0Z,6Z,12Z,18Z
Geopotential Height	geopotential_height	zq	m	Average of instantaneous values at 0Z,6Z,12Z,18Z

Temperature	air_temperature	ta	K	Daily Average
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Single-level Parameters

Variable	CF Standard Name	Abbrev	Unit	Frequency
10m wind (u)	eastward_wind	uas	m s ⁻¹	Average of instantaneous values at 0Z,6Z,12Z,18Z
10m wind (v)	northward_wind	vas	m s ⁻¹	Average of instantaneous values at 0Z,6Z,12Z,18Z
2m T daily max	air_temperature	tasmax	K	24 hour instantaneous
2m T daily min	air_temperature	tasmin	K	24 hour instantaneous
2m temperature	air_temperature	tas	K	Daily Average 00Z-00Z
Surface temperature (SST+land)	surface_temperature	ts	K	Daily Average 00Z-00Z
2m dewpoint temperature	dew_point_temperature	Tdps	K	Daily Average 00Z-00Z
Precipitation	precipitation_flux	pr	kg m ⁻² s ⁻¹	Accumulated every 24 hours

Surface sensible heat flux	surface_upward_sensible_heat_flux	hfss	W m ⁻²	Accumulated every 24hrs
Surface latent heat flux	surface_upward_latent_heat_flux	hfls	W m ⁻²	Accumulated every 24hrs
Surface stress (tauy)	surface_meridional_stress_positive_to_the_south	stx	N m ⁻²	Daily Average 00Z-00Z
Surface stress (taux)	surface_zonal_stress_positive_to_the_west	sty	N m ⁻²	Daily Average 00Z-00Z
Mean sea level pressure	air_pressure_at_sea_level	psl	Pa	Average of instantaneous values at 0Z,6Z,12Z,18Z
Runoff	runoff_flux	mrro	kg m ⁻² s ⁻¹	Accumulated every 24 hrs
Snow water equivalent			kg m ⁻²	Accumulated every 24 hrs
Outgoing Longwave Radiation at top of Atmosphere	toa_outgoing_longwave_flux	rlut	W m ⁻²	Accumulated every 24 hrs
Net surface Radiation (LWup-LWdown+SWup-SWdown)			W m ⁻²	Accumulated every 24 hrs
Snow density	snow_density		kg m ⁻³	Daily Average 00Z-00Z
Snow cover	surface_snow_area_fraction_where_land	snc	%	Daily Average 00Z-00Z

Vertically integrated soil moisture	soil_moisture_content	mrso	kg m ⁻²	Daily Average 00Z-00Z
Sea ice concentration	sea_ice_area_fraction	sic	%	Daily Average 00Z-00Z
Wave heights (optional)	sea_surface_wave_mean_height		m	Daily Average 00Z-00Z
Convective available potential energy (CAPE)	atmosphere_convective_available_potential_energy		J kg ⁻¹	Daily Average
Root zone soil moisture expressed in term of volumetric soil moisture content as volume of water per volume of soil	Average water content in top meter of soil		m ³ m ⁻³	Accumulated every 24 hrs
Vertically integrated (sfc to 300 hPa) zonal moisture flux in the atmosphere		uq	Kg / m / s * 24h	Accumulated every 24h
Vertically integrated (sfc to 300 hPa) meridional moisture flux in the atmosphere		vq	Kg / m / s * 24h	Accumulated every 24h