

GRIB Output

Name	Short name	Units	Level Type	Level	Time Range	Parameter	Type Level
AROME hail diagnostic	xhail	kg m-2	agl	0	0	161	105
Cloud ice	ciwc	kg m-2	pl	100	0	58	100
Cloud ice	ciwc	kg m-2	pl	200	0	58	100
Cloud ice	ciwc	kg m-2	pl	300	0	58	100
Cloud ice	ciwc	kg m-2	pl	400	0	58	100
Cloud ice	ciwc	kg m-2	pl	500	0	58	100
Cloud ice	ciwc	kg m-2	pl	600	0	58	100
Cloud ice	ciwc	kg m-2	pl	700	0	58	100
Cloud ice	ciwc	kg m-2	pl	800	0	58	100
Cloud ice	ciwc	kg m-2	pl	850	0	58	100
Cloud ice	ciwc	kg m-2	pl	900	0	58	100
Cloud ice	ciwc	kg m-2	pl	925	0	58	100
Cloud ice	ciwc	kg m-2	pl	950	0	58	100
Cloud ice	ciwc	kg m-2	pl	1000	0	58	100
Cloud water	cwat	kg m-2	pl	100	0	76	100
Cloud water	cwat	kg m-2	pl	200	0	76	100
Cloud water	cwat	kg m-2	pl	300	0	76	100
Cloud water	cwat	kg m-2	pl	400	0	76	100
Cloud water	cwat	kg m-2	pl	500	0	76	100
Cloud water	cwat	kg m-2	pl	600	0	76	100
Cloud water	cwat	kg m-2	pl	700	0	76	100
Cloud water	cwat	kg m-2	pl	800	0	76	100
Cloud water	cwat	kg m-2	pl	850	0	76	100
Cloud water	cwat	kg m-2	pl	900	0	76	100
Cloud water	cwat	kg m-2	pl	925	0	76	100
Cloud water	cwat	kg m-2	pl	950	0	76	100
Cloud water	cwat	kg m-2	pl	1000	0	76	100
Direct normal irradiance	dni	W m-2	agl	0	4	140	105
Geometrical height	h	m	lcl	0	0	8	5
Geometrical height	h	m	tl	27315	0	8	20

Geopotential	z	m2 s-2	pl	100	0	6	100
Geopotential	z	m2 s-2	pl	200	0	6	100
Geopotential	z	m2 s-2	pl	300	0	6	100
Geopotential	z	m2 s-2	pl	400	0	6	100
Geopotential	z	m2 s-2	pl	500	0	6	100
Geopotential	z	m2 s-2	pl	600	0	6	100
Geopotential	z	m2 s-2	pl	700	0	6	100
Geopotential	z	m2 s-2	pl	800	0	6	100
Geopotential	z	m2 s-2	pl	850	0	6	100
Geopotential	z	m2 s-2	pl	900	0	6	100
Geopotential	z	m2 s-2	pl	925	0	6	100
Geopotential	z	m2 s-2	pl	950	0	6	100
Geopotential	z	m2 s-2	pl	1000	0	6	100
Global radiation flux	grad	W m-2	agl	0	4	117	105
Graupel	grpl	kg m-2	agl	0	4	201	105
Gust, u-component	ugst	m s*-1	agl	10	2	162	105
Gust, v-component	vgst	m s*-1	agl	10	2	163	105
High cloud cover	hcc	(0 - 1)	agl	0	0	75	105
Latent Heat Sublimation	lhsb	J kg-1	agl	0	4	244	105
Latent heat flux through evaporation	lhe	W m-2	agl	0	4	132	105
Long-wave radiation flux	lwavr	W m-2	agl	0	0	115	105
Long-wave radiation flux	lwavr	W m-2	agl	0	4	115	105
Low cloud cover	lcc	(0 - 1)	agl	0	0	73	105
Maximum temperature	tmax	K	agl	2	2	15	105
Medium cloud cover	mcc	(0 - 1)	agl	0	0	74	105
Minimum temperature	tmin	K	agl	2	2	16	105
Mixed layer depth	mld	m	agl	0	0	67	105
Momentum flux, u-component	uflx	N m-2	agl	0	4	124	105
Momentum flux, v-component	vflx	N m-2	agl	0	4	125	105
Net long-wave radiation flux (atmosph.top)	nlwrt	W m-2	toa	0	4	114	8
Net long-wave radiation flux (atmosph.top)	nlwrt	W m-2	toa	0	0	114	8
Net long-wave radiation flux (surface)	nlwrs	W m-2	agl	0	4	112	105
Net short-wave radiation flux (atmosph.top)	nswrt	W m-2	toa	0	4	113	8
Net short-wave radiation flux (atmosph.top)	nswrt	W m-2	toa	0	0	113	8

Net short-wave radiation flux (surface)	mswrs	W m-2	agl	0	4	111	105
Precipitable water	pwat	kg m-2	atm	0	0	54	200
Pressure	pres	Pa	agl	0	0	1	105
Pressure	pres	Pa	asl	0	0	1	103
Rain	rain	kg m-2	agl	0	4	181	105
Relative humidity	r	%	agl	2	0	52	105
Relative humidity	r	%	agl	30	0	52	105
Relative humidity	r	%	agl	50	0	52	105
Relative humidity	r	%	agl	60	0	52	105
Relative humidity	r	%	agl	70	0	52	105
Relative humidity	r	%	agl	80	0	52	105
Relative humidity	r	%	agl	90	0	52	105
Relative humidity	r	%	agl	100	0	52	105
Relative humidity	r	%	agl	125	0	52	105
Relative humidity	r	%	agl	150	0	52	105
Relative humidity	r	%	agl	200	0	52	105
Relative humidity	r	%	agl	300	0	52	105
Relative humidity	r	%	agl	400	0	52	105
Relative humidity	r	%	pl	100	0	52	100
Relative humidity	r	%	pl	200	0	52	100
Relative humidity	r	%	pl	300	0	52	100
Relative humidity	r	%	pl	400	0	52	100
Relative humidity	r	%	pl	500	0	52	100
Relative humidity	r	%	pl	600	0	52	100
Relative humidity	r	%	pl	700	0	52	100
Relative humidity	r	%	pl	800	0	52	100
Relative humidity	r	%	pl	850	0	52	100
Relative humidity	r	%	pl	900	0	52	100
Relative humidity	r	%	pl	925	0	52	100
Relative humidity	r	%	pl	950	0	52	100
Relative humidity	r	%	pl	1000	0	52	100
Sensible heat flux	sshf	W m-2	agl	0	4	122	105
Short-wave radiation flux	swavr	W m-2	agl	0	0	116	105
Short-wave radiation flux	swavr	W m-2	agl	0	4	116	105

Short-wave radiation flux	swavr	W m-2	toa	0	4	116	8
Snow	snow	kg m-2	agl	0	4	184	105
Snow	snow	kg m-2	agl	0	4	184	105
Snow Sublimation	snsb	kg m-2	agl	0	4	246	105
Temperature	t	K	agl	0	0	11	105
Temperature	t	K	agl	2	0	11	105
Temperature	t	K	agl	30	0	11	105
Temperature	t	K	agl	50	0	11	105
Temperature	t	K	agl	60	0	11	105
Temperature	t	K	agl	70	0	11	105
Temperature	t	K	agl	80	0	11	105
Temperature	t	K	agl	90	0	11	105
Temperature	t	K	agl	100	0	11	105
Temperature	t	K	agl	125	0	11	105
Temperature	t	K	agl	150	0	11	105
Temperature	t	K	agl	200	0	11	105
Temperature	t	K	agl	300	0	11	105
Temperature	t	K	agl	400	0	11	105
Temperature	t	K	pl	100	0	11	100
Temperature	t	K	pl	200	0	11	100
Temperature	t	K	pl	300	0	11	100
Temperature	t	K	pl	400	0	11	100
Temperature	t	K	pl	500	0	11	100
Temperature	t	K	pl	600	0	11	100
Temperature	t	K	pl	700	0	11	100
Temperature	t	K	pl	800	0	11	100
Temperature	t	K	pl	850	0	11	100
Temperature	t	K	pl	900	0	11	100
Temperature	t	K	pl	925	0	11	100
Temperature	t	K	pl	950	0	11	100
Temperature	t	K	pl	1000	0	11	100
Total cloud cover	tcc	(0 - 1)	agl	0	0	71	105
Total precipitation	tp	kg m-2	agl	0	4	61	105
Vertical velocity	w	m s-1	pl	100	0	40	100

Vertical velocity	w	m s-1	pl	200	0	40	100
Vertical velocity	w	m s-1	pl	300	0	40	100
Vertical velocity	w	m s-1	pl	400	0	40	100
Vertical velocity	w	m s-1	pl	500	0	40	100
Vertical velocity	w	m s-1	pl	600	0	40	100
Vertical velocity	w	m s-1	pl	700	0	40	100
Vertical velocity	w	m s-1	pl	800	0	40	100
Vertical velocity	w	m s-1	pl	850	0	40	100
Vertical velocity	w	m s-1	pl	900	0	40	100
Vertical velocity	w	m s-1	pl	925	0	40	100
Vertical velocity	w	m s-1	pl	950	0	40	100
Vertical velocity	w	m s-1	pl	1000	0	40	100
Water equivalent of accumulated snow depth	sf	kg m-2	agl	0	0	65	105
Water evaporation	wevap	kg m-2	agl	0	4	245	105
u-component of wind	u	m s-1	agl	10	0	33	105
u-component of wind	u	m s-1	agl	30	0	33	105
u-component of wind	u	m s-1	agl	50	0	33	105
u-component of wind	u	m s-1	agl	60	0	33	105
u-component of wind	u	m s-1	agl	70	0	33	105
u-component of wind	u	m s-1	agl	80	0	33	105
u-component of wind	u	m s-1	agl	90	0	33	105
u-component of wind	u	m s-1	agl	100	0	33	105
u-component of wind	u	m s-1	agl	125	0	33	105
u-component of wind	u	m s-1	agl	150	0	33	105
u-component of wind	u	m s-1	agl	200	0	33	105
u-component of wind	u	m s-1	agl	300	0	33	105
u-component of wind	u	m s-1	agl	400	0	33	105
u-component of wind	u	m s-1	pl	100	0	33	100
u-component of wind	u	m s-1	pl	200	0	33	100
u-component of wind	u	m s-1	pl	300	0	33	100
u-component of wind	u	m s-1	pl	400	0	33	100
u-component of wind	u	m s-1	pl	500	0	33	100
u-component of wind	u	m s-1	pl	600	0	33	100
u-component of wind	u	m s-1	pl	700	0	33	100

u-component of wind	u	m s-1	pl	800	0	33	100
u-component of wind	u	m s-1	pl	850	0	33	100
u-component of wind	u	m s-1	pl	900	0	33	100
u-component of wind	u	m s-1	pl	925	0	33	100
u-component of wind	u	m s-1	pl	950	0	33	100
u-component of wind	u	m s-1	pl	1000	0	33	100
v-component of wind	v	m s-1	agl	10	0	34	105
v-component of wind	v	m s-1	agl	30	0	34	105
v-component of wind	v	m s-1	agl	50	0	34	105
v-component of wind	v	m s-1	agl	60	0	34	105
v-component of wind	v	m s-1	agl	70	0	34	105
v-component of wind	v	m s-1	agl	80	0	34	105
v-component of wind	v	m s-1	agl	90	0	34	105
v-component of wind	v	m s-1	agl	100	0	34	105
v-component of wind	v	m s-1	agl	125	0	34	105
v-component of wind	v	m s-1	agl	150	0	34	105
v-component of wind	v	m s-1	agl	200	0	34	105
v-component of wind	v	m s-1	agl	300	0	34	105
v-component of wind	v	m s-1	agl	400	0	34	105
v-component of wind	v	m s-1	pl	100	0	34	100
v-component of wind	v	m s-1	pl	200	0	34	100
v-component of wind	v	m s-1	pl	300	0	34	100
v-component of wind	v	m s-1	pl	400	0	34	100
v-component of wind	v	m s-1	pl	500	0	34	100
v-component of wind	v	m s-1	pl	600	0	34	100
v-component of wind	v	m s-1	pl	700	0	34	100
v-component of wind	v	m s-1	pl	800	0	34	100
v-component of wind	v	m s-1	pl	850	0	34	100
v-component of wind	v	m s-1	pl	900	0	34	100
v-component of wind	v	m s-1	pl	925	0	34	100
v-component of wind	v	m s-1	pl	950	0	34	100
v-component of wind	v	m s-1	pl	1000	0	34	100

GL post processed model output

Name	Short name	Units	Level Type	Level	Time Range	Parameter	Type Level
Cloud base	cb	m	atm	0	0	186	200
Cloud top	ct	m	atm	0	0	187	200
Graupel	grpl	kg m-2	atm	0	0	201	200
Icing index	icei	-	agl	0	0	135	105
Lightning	lgt	-	atm	0	0	211	200
Precipitation Type	prtp	-	agl	0	0	144	105
Pseudo satellite: cloud top temperature (infrared)	psct	-	agl	0	0	136	105
Pseudo satellite: cloud water reflectivity (visible)	pscw	-	agl	0	0	139	105
Pseudo satellite: water vapour Tb	pstb	-	agl	0	0	137	105
Pseudo satellite: water vapour Tb + correction for clouds	pstbc	-	agl	0	0	138	105
Rain	rain	kg m-2	atm	0	0	181	200
Snow	snow	kg m-2	atm	0	0	184	200
Total cloud cover	tcc	(0 - 1)	agl	2	0	71	105
Visibility	vis	m	agl	0	0	20	105

SURFEX Model Output

Name	Short name	Units	Level Type	Level	Time Range	Parameter	Type Level
Soil Moisture	sm	kg m-3	sfc	0	0	86	111
Soil Moisture	sm	kg m-3	sfc	20	0	86	111
Soil Moisture	sm	kg m-3	sfc	300	0	86	111
Soil Temperature	st	K	sfc	0	0	85	111
Soil Temperature	st	K	sfc	20	0	85	111
Soil Temperature	st	K	sfc	300	0	85	111
Surface soil ice	ssi	m3 m-3	sfc	0	0	193	111
Surface soil ice	ssi	m3 m-3	sfc	20	0	193	111
Surface soil ice	ssi	m3 m-3	sfc	300	0	193	111

