Variables	Frequency	Aggregation	EUP_MPI2	EUP_MPI3	SPICE_MPI	Available at SYSTEMS (external Vedicad)	Available at CPS_v2 (internal)	Available at SPICE	Comments
Air temperature	At 7am, 2pm and 9pm (local time)	point	FET			Yes. (Meagl: 2)	Yes. (Meagl: tsqzhs)	Yes. (Meagl: tas)	
Air temperature	Daily	mean		CEB, HI, Hyl, HDD, UZIC	AQUATICOL, B-HYPE, COMS, LPJ4A, JULES, GUESS, MORDOR, ICS	VORTEX, EMBA	Yes. (mean2d)	Yes. (tmp2d)	Yes. (tas)	
Air temperature	Daily	minimum		T<-17°C, CI	COMS, GUESS, GLAM, AQUATICOL, B-HYPE, MORDOR	ULBEIDS	Yes. (min2d)	Yes. (tmin)	Yes. (tasmin)	
Air temperature	Daily	maximum	HI, FWI		COMS, GUESS, GLAM, AQUATICOL, B-HYPE, MORDOR	ULBEIDS, EMBA	Yes. (max2d)	Yes. (tmax)	Yes. (tasmax)	
Air temperature	Monthly	mean			ICS		Yes. (mean2d)	Yes. (tmp2m)	Yes. (tas)	
Precipitation	Daily	mean	EUP, Hyl		AQUATICOL, B-HYPE, COMS, LPJ4A, JULES, GUESS, GLAM, MORDOR, ICS	ULBEIDS, ICS	Yes. (p)	Yes. (pratio)	Yes. (pr)	
Precipitation	Monthly				ICS		Yes. (p)	Yes. (pratio)	Yes. (pr)	
Surface downwelling shortwave flux in air	Daily	mean			COMS, LPJ4A, JULES, GLAM, MORDOR	ULBEIDS, EMBA, ICS	Yes. (rsnd)	Yes. (rlwadn)	Yes. (rsds)	
Surface downwelling longwave flux in air	Daily	mean			COMS, LPJ4A, JULES		Yes. (rsnd)	Yes. (rlwdn)	Yes. (rlds)	
Wind speed (at 10m)	Daily	mean	FWI		COMS, JULES, AQUATICOL, B-HYPE	VORTEX, EMBA	Yes. (Derived 10u, 10v)	Yes. (sfcwindmax(u10 m),v10m))	Yes. (Derived sfcwindmax)	
Wind speed (at 10m)	Daily	maximum			GUESS		Yes. (Derived 10u, 10v)	Yes. (sfcwindmax(u10 m),v10m))	Yes. (Derived sfcwindmax)	
Wind speed (at 10m)	Monthly	mean	CFU				Yes. (Derived 10u, 10v)	Yes. (sfcwindmax(u10 m),v10m))	Yes. (Derived sfcwindmax)	
Geopotential 850mb	Daily	mean				VORTEX, EMBA	Yes. (z850)	Yes. (Derived z850)	No. (proxy: monthly: ua850)	
U-component 850mb Wind speed	Daily	mean				VORTEX	Yes. (u850)	Yes. (wind850)	No. (Proxy: monthly: ua850)	
V-component 850mb Wind speed	Daily	mean				VORTEX	Yes. (v850)	Yes. (wind850)	No. (Proxy: monthly: ua850)	
U-component 925mb wind speed	Daily	mean				VORTEX	Yes. (u925)	Yes. (wind925)	No.	
V-component 925mb wind speed	Daily	mean				VORTEX	Yes. (v925)	Yes. (wind925)	No.	
Geopotential height at 700hPa	Daily	At 12 UTC			MORDOR		Yes. (Derived z700)	Yes. (gpm700)	No.	
Geopotential height at 1000hPa	Daily	At 12 UTC			MORDOR		Yes. (Derived z1000)	Yes. (gpm1000)	No.	
Water Content of Soil Layer	Daily	mean			GUESS		Yes. (Derived swv5, swv10, swv20, swv30, swv50)	Yes. (Proxy: sslim1, sslim2, sslim3, sslim5, sslim6)	No.	Total?
Water Content of Soil Layer	Monthly				GUESS, AQUATICOL		Yes. (Derived swv5, swv10, swv20, swv30, swv50)	Yes. (Proxy: sslim1, sslim2, sslim3, sslim5, sslim6)	No.	Monthly?
Surface Runoff	Daily	mean			AQUATICOL		Yes. (rsn)	Yes. (runoff)	No.	
Sea level pressure	Daily	mean				VORTEX	Yes. (msl)	No. (Pressyeamsl)	Yes. (psl)	
Dew point temperature	Daily	mean	UZIC	B-HYPE			Yes. (Td)	No. (Proxy: q2m, tmp2m, pressfc)	Yes. (tdps)	
Total Runoff	Monthly			AQUATICOL			Yes. (rs)	No.	Yes. (tsns)	Monthly?
Snowfall flux	Daily	mean		GUESS, B-HYPE			Yes. (sf)	No.	Yes. (prsn)	
Water Evaporation from Soil	Daily			GUESS			Yes. (e)	No.	Yes. (flvap)	Total but if Day include transpiration
Water Evaporation from Soil	Monthly			GUESS, AQUATICOL			Yes. (e)	No.	Yes. (flvap)	Monthly?
Sea surface temperature	Daily	mean				VORTEX	Yes. (sst)	No.	No. (Proxy: monthly: sst)	
Soil SUPFZZ Support Nuts	Daily	mean			AQUATICOL		Yes. (sswt)	No.	No.	
Geopotential 500mb	Daily	mean				VORTEX, EMBA	Yes. (z500)	No.	No.	
SPIKE SLIST	Daily	maximum			GUESS		Yes. (z10g)	No.	No.	
Precipitation	At noon	Accumulated in the last 24h	FWI				No.	Yes. (pratio)	Yes. (pr)	
Surface air pressure	Daily	mean		JULIES, ICS, B-HYPE			No. (Proxy:msl)	Yes. (pressfc)	No. (Proxy:psl)	
Surface air pressure	Monthly			ICS			No. (Proxy:msl)	Yes. (pressfc)	No. (Proxy:psl)	
Specific humidity	Daily	mean			JULIES, AQUATICOL, GUESS, GLAM		No.	Yes. (sphu)	No.	
Moisture in Upper Portion of Soil Column	Monthly				AQUATICOL		No. (Proxy:swv5)	Yes. (ssl4-1)	No.	What does Upper Portion mean?, Monthly?
Cloud area fraction	Daily	mean				EMBA	No. (Proxy:lcc)	No.	Yes. (cll)	
Total Soil Moisture Content	Daily	mean			AQUATICOL		No. (Proxy:swv5, swv2, swv3, swv4)	No. (Derived:sslim1, sslim2, sslim3, sslim4)	Yes. (mrsos)	
Relative humidity	At 7am, 2pm and 9pm (local time)	point	FET				No. (Proxy:2d)	No. (Proxy:q2m, tmp2m, pressfc)	No. (Proxy:tdps)	
Relative humidity	At noon local standard time or daily mean	point	FWI				No. (Proxy:2d)	No. (Proxy:q2m, tmp2m, pressfc)	No. (Proxy:tdps)	
Relative humidity	Daily	mean		COMS, B-HYPE			No. (Proxy:2d)	No. (Proxy:q2m, tmp2m, pressfc)	No. (Proxy:tdps)	
Wind speed (at 10m)	At 7am, 2pm and 9pm (local time)	point	FET				No. (Proxy:10u, 10v)	No. (Proxy:sfcwindmax(u10m),v10m))	No. (Proxy:uas, vas)	
Wind speed (at 10m)	At noon local standard time	point	FWI				No. (Proxy:10u, 10v)	No. (Proxy:sfcwindmax(u10m),v10m))	No. (Proxy:uas, vas)	
Surface downwelling longwave flux in air	At 7am, 2pm and 9pm (local time)	point	FET				No. (Proxy: daily sin4)	No. (Meagl:rlwadn)	No.	
Surface downwelling shortwave flux in air	At 7am, 2pm and 9pm (local time)	point	FET				No. (Proxy: daily sin4)	No. (Meagl:rlwadn)	No.	
Cloudiness (in octas)	At 7am, 2pm and 9pm (local time)	point	FET				No. (Proxy:lcc)	No.	No. (Proxy: cll)	
Relative humidity at 300mb	Daily	mean				VORTEX	No. (Proxy:r-q)	No.	No.	
Ozone	Daily	mean			JULIES		No. (Proxy:O3, Ozone-low, cloning:ratio=5, sub: Total column ozone)	No.	No.	O needs clarification
Skin temperature	Daily	mean			Meteostatic		No.	No. (Proxy: tsrpt4)	No.	
Air temperature	At noon local standard time	point	FWI				No.	No.	No.	
Max Snowfall Load Gold Nuts	Daily	mean		GUESS			No.	No.	No.	
Max Snowfall Load Gold Nuts	Daily	maximum		GUESS			No.	No.	No.	
Min Snowfall Load Gold Nuts	Daily	minimum		GUESS			No.	No.	No.	
Precipitation	Yearly rate	maximum		GUESS			No.	No.	No.	
Snowfall seed c.COMPONENT s.total	Daily	mean		ICS, MORDOR			No.	No.	No.	
Snowfall seed c.COMPONENT s.total	Monthly			ICS			No.	No.	No.	
Snowfall seed c.COMPONENT s.total	Daily	mean		ICS, MORDOR			No.	No.	No.	
Snowfall seed c.COMPONENT s.total	Monthly			ICS			No.	No.	No.	
U-component 100 metre wind speed	Daily	mean			VORTEX, EMBA, ICS	No.	No.	No.	
V-component 100 metre wind speed	Daily	mean			VORTEX, EMBA, ICS	No.	No.	No.	
Surface snow amount	Daily	mean		GUESS		No.	No.	No.	
Surface moisture	Daily	mean	UZIC			No.	No.	No.	What does it refer to? Humidity? Water in soil?
CLEAR SKY (0) DOWN SURFACE SW FLUX	Daily	mean		ICS, GUESS		No.	No.	No.	What does (0) refer to?
CLEAR SKY (0) DOWN SURFACE SW FLUX	Monthly			ICS		No.	No.	No.	
Water Evaporation flux	Daily	mean		B-HYPE		No.	No.	No.	
1.5M SPECIFIC HUMIDITY CLEAR TILES	Daily	mean		GUESS		No.	No.	No.	
DRAINCK OUTFLOW	Daily	mean		Meteoflux		No.	No.	No.	This variable needs clarification
noT-Hosator Product:Tot? Sa.HFN	Daily	mean		Meteoflux		No.	No.	No.	What does it mean?
noT-Hosator Product:Tot? Sa.HFN	Daily	mean		Meteoflux		No.	No.	No.	What does it mean?
NET DOWN SURFACE LW RAD FLUX (used for Ice)	Daily	mean		JULIES		No.	No.	No.	
GRFLUSE FLUX	Daily	mean		JULIES		No.	No.	No.	
CANOPY THROUGHFALL FLUX	Daily	mean		AQUATICOL		No.	No.	No.	
Evaporation from Canopy	Daily	mean		AQUATICOL		No.	No.	No.	
Sublimation from Snow	Daily	mean		AQUATICOL		No.	No.	No.	
Transpiration	Monthly			AQUATICOL		No.	No.	No.	Monthly?
Soil Frozen Water Content	Monthly			AQUATICOL		No.	No.	No.	Monthly?
Solar Radiation (Global Horizontal Radiation)	Daily	mean			ULBEIDS, EMBA, ICS	No.	No.	No.	O needs clarification Horizontal?