Variable	Units	Description
TIMEKEEPING		
TIMESTAMP	YYYYMMDDHHMM	ISO timestamp - short format
TIMESTAMP_START	YYYYMMDDHHMM	ISO timestamp start of averaging period - short format
TIMESTAMP_END	YYYYMMDDHHMM	ISO timestamp end of averaging period - short format
MICROMETEOROLOGICAL		
TA_F_MDS		Air temperature, gapfilled using MDS method
HH	deg C	
DD	deg C	average from half-hourly data
WW-YY	deg C	average from daily data
TA_F_MDS_QC		Quality flag for TA_F_MDS
HH	nondimensional	0 = measured; 1 = good quality gapfill; 2 = medium; 3 = poor
DD	nondimensional	fraction between 0-1, indicating percentage of measured and good quality gapfill data
WW-YY	nondimensional	fraction between 0-1, indicating percentage of measured and good quality gapfill data (average from daily data)
TA_F_MDS_NIGHT		Average nighttime TA_F_MDS
HH		not available
DD	deg C	average from half-hourly data
WW-YY	deg C	average from daily data
TA_F_MDS_NIGHT_SD		Standard deviation for TA_F_MDS_NIGHT
HH		not available
DD	deg C	from half-hourly data
WW-YY	deg C	average SD from daily data
TA_F_MDS_NIGHT_QC		Quality flag for TA_F_MDS_NIGHT
HH		not available
DD	nondimensional	fraction between 0-1, indicating percentage of measured and good quality gapfill data
WW-YY	nondimensional	fraction between 0-1, indicating percentage of measured and good quality gapfill data (average from daily data)
TA_F_MDS_DAY		Average daytime TA_F_MDS
HH		not available
DD	deg C	average from half-hourly data
WW-YY	deg C	average from daily data
TA_F_MDS_DAY_SD		Standard deviation for TA_F_MDS_DAY
HH		not available
DD	deg C	from half-hourly data
WW-YY	deg C	average SD from daily data
TA_F_MDS_DAY_QC		Quality flag for TA_F_MDS_DAY
HH		not available

DD	nondimensional	fraction between 0-1, indicating percentage of measured and good quality gapfill data
WW-YY	nondimensional	fraction between 0-1, indicating percentage of measured and good quality gapfill data (average from daily data)
TA_ERA		Air temperature, downscaled from ERA, linearly regressed using measured only site data
HH	deg C	
DD	deg C	average from half-hourly data
WW-YY	deg C	average from daily data
TA_ERA_NIGHT		Average nighttime TA_ERA
HH		not available
DD	deg C	average from half-hourly data
WW-YY	deg C	average from daily data
TA_ERA_NIGHT_SD		Standard deviation for TA_ERA_NIGHT
HH		not available
DD	deg C	from half-hourly data
WW-YY	deg C	average SD from daily data
TA_ERA_DAY		Average daytime TA_ERA
HH		not available
DD	deg C	average from half-hourly data
WW-YY	deg C	average from daily data
TA_ERA_DAY_SD		Standard deviation for TA_ERA_DAY
HH		not available
DD	deg C	from half-hourly data
WW-YY	deg C	average SD from daily data
TA_F		Air temperature, consolidated from TA_F_MDS and TA_ERA
HH	deg C	TA_F_MDS used if TA_F_MDS_QC is 0 or 1
DD	deg C	average from half-hourly data
WW-YY	deg C	average from daily data
TA_F_QC		Quality flag for TA_F
HH	nondimensional	0 = measured; 1 = good quality gapfill; 2 = downscaled from ERA
DD	nondimensional	fraction between 0-1, indicating percentage of measured and good quality gapfill data
WW-YY	nondimensional	fraction between 0-1, indicating percentage of measured and good quality gapfill data (average from daily data)
TA_F_NIGHT		Average nighttime TA_F
HH		not available
DD	deg C	average from half-hourly data
WW-YY	deg C	average from daily data
TA_F_NIGHT_SD		Standard deviation for TA_F_NIGHT
HH		not available
DD	deg C	from half-hourly data
WW-YY	deg C	average SD from daily data

TA_F_NIGHT_QC		Quality flag for TA_F_NIGHT
HH		not available
DD	nondimensional	fraction between 0-1, indicating percentage of measured and good quality gapfill data
WW-YY	nondimensional	fraction between 0-1, indicating percentage of measured and good quality gapfill data (average from daily data)
TA_F_DAY		Average daytime TA_F
HH		not available
DD	deg C	average from half-hourly data
WW-YY	deg C	average from daily data
TA_F_DAY_SD		Standard deviation for TA_F_DAY
HH		not available
DD	deg C	from half-hourly data
WW-YY	deg C	average SD from daily data
TA_F_DAY_QC		Quality flag for TA_F_DAY
HH		not available
DD	nondimensional	fraction between 0-1, indicating percentage of measured and good quality gapfill data
WW-YY	nondimensional	fraction between 0-1, indicating percentage of measured and good quality gapfill data (average from daily data)
SW_IN_POT		Shortwave radiation, incoming, potential (top of atmosphere)
HH	W m-2	
DD	W m-2	average from half-hourly data
WW-MM	W m-2	average from daily data
YY		not available
SW_IN_F_MDS		Shortwave radiation, incoming, gapfilled using MDS (negative values set to zero, e.g., negative values from instrumentation noise)
HH	W m-2	
DD	W m-2	average from half-hourly data
WW-YY	W m-2	average from daily data
SW_IN_F_MDS_QC		Quality flag for SW_IN_F_MDS
HH	nondimensional	0 = measured; 1 = good quality gapfill; 2 = medium; 3 = poor
DD	nondimensional	fraction between 0-1, indicating percentage of measured and good quality gapfill data
WW-YY	nondimensional	fraction between 0-1, indicating percentage of measured and good quality gapfill data (average from daily data)
SW_IN_ERA		Shortwave radiation, incoming, downscaled from ERA, linearly regressed using measured only site data (negative values set to zero)
HH	W m-2	
DD	W m-2	average from half-hourly data
WW-YY	W m-2	average from daily data

SW_IN_F		Shortwave radiation, incoming consolidated from SW_IN_F_MDS and SW_IN_ERA (negative values set to zero)
HH	W m-2	SW_IN_F_MDS used if SW_IN_F_MDS_QC is 0 or 1
DD	W m-2	average from half-hourly data
WW-YY	W m-2	average from daily data
SW_IN_F_QC		Quality flag for SW_IN_F
HH	nondimensional	0 = measured; 1 = good quality gapfill; 2 = downscaled from ERA
DD	nondimensional	fraction between 0-1, indicating percentage of measured and good quality gapfill data
WW-YY	nondimensional	fraction between 0-1, indicating percentage of measured and good quality gapfill data (average from daily data)
LW_IN_F_MDS		Longwave radiation, incoming, gapfilled using MDS
HH	W m-2	
DD	W m-2	average from half-hourly data
WW-YY	W m-2	average from daily data
LW_IN_F_MDS_QC		Quality flag for LW_IN_F_MDS
HH	nondimensional	0 = measured; 1 = good quality gapfill; 2 = medium; 3 = poor
DD	nondimensional	fraction between 0-1, indicating percentage of measured and good quality gapfill data
WW-YY	nondimensional	fraction between 0-1, indicating percentage of measured and good quality gapfill data (average from daily data)
LW_IN_ERA		Longwave radiation, incoming, downscaled from ERA, linearly regressed using measured only site data
HH	W m-2	
DD	W m-2	average from half-hourly data
WW-YY	W m-2	average from daily data
LW_IN_F		Longwave radiation, incoming, consolidated from LW_IN_F_MDS and LW_IN_ERA
HH	W m-2	LW_IN_F_MDS used if LW_IN_F_MDS_QC is 0 or 1
DD	W m-2	average from half-hourly data
WW-YY	W m-2	average from daily data
LW_IN_F_QC		Quality flag for LW_IN_F
HH	nondimensional	0 = measured; 1 = good quality gapfill; 2 = downscaled from ERA
DD	nondimensional	fraction between 0-1, indicating percentage of measured and good quality gapfill data
WW-YY	nondimensional	fraction between 0-1, indicating percentage of measured and good quality gapfill data (average from daily data)
LW_IN_JSB		Longwave radiation, incoming, calculated from TA_F_MDS, SW_IN_F_MDS, VPD_F_MDS and SW_IN_POT using the JSBACH algorithm (Sonke Zaehle)

HH	W m-2	
DD	W m-2	average from half-hourly data
WW-YY	W m-2	average from daily data
LW_IN_JSB_QC		Quality flag for LW_IN_JSB
HH	nondimensional	highest from TA_F_MDS_QC, SW_IN_F_MDS_QC, and VPD_F_MDS_QC, poorest quality prevails
DD	nondimensional	fraction between 0-1, indicating percentage of calculated LW_IN starting from measured and good quality gapfill drivers data
WW-YY	nondimensional	fraction between 0-1, indicating percentage ofcalculated LW_IN starting from measured and good quality gapfill drivers data (average from daily data)
LW_IN_JSB_ERA		Longwave radiation, incoming, downscaled from ERA, linearly regressed using site level LW_IN_JSB calculated from measured only drivers
HH	W m-2	
DD	W m-2	average from half-hourly data
WW-YY	W m-2	average from daily data
LW_IN_JSB_F		Longwave radiation, incoming, consolidated from LW_IN_JSB and LW_IN_JSB_ERA
HH	W m-2	LW_IN_JSB used if LW_IN_JSB_QC is 0 or 1
DD	W m-2	average from half-hourly data
WW-YY	W m-2	average from daily data
LW_IN_JSB_F_QC		Quality flag for LW_IN_JSB_F
HH	nondimensional	0 = calculated from measured drivers; 1 = calculated from good quality gapfilled drivers; 2: downscaled from ERA
DD	nondimensional	fraction between 0-1, indicating percentage of measured and good quality gapfill data
WW-YY	nondimensional	fraction between 0-1, indicating percentage of measured and good quality gapfill data (average from daily data)
VPD_F_MDS		Vapor Pressure Deficit, gapfilled using MDS
HH	hPa	
DD	hPa	average from half-hourly data
WW-YY	hPa	average from daily data
VPD_F_MDS_QC		Quality flag for VPD_F_MDS
HH	nondimensional	0 = measured; 1 = good quality gapfill; 2 = medium; 3 = poor
DD	nondimensional	fraction between 0-1, indicating percentage of measured and good quality gapfill data
WW-YY	nondimensional	fraction between 0-1, indicating percentage of measured and good quality gapfill data (average from daily data)
VPD_ERA		Vapor Pressure Deficit, downscaled from ERA, linearly regressed using measured only site data
HH	hPa	
DD	hPa	average from half-hourly data

WW-YY	hPa	average from daily data
VPD_F		Vapor Pressure Deficit consolidated from VPD_F_MDS and VPD_ERA
HH	hPa	VPD_F_MDS used if VPD_F_MDS_QC is 0 or 1
DD	hPa	average from half-hourly data
WW-YY	hPa	average from daily data
VPD_F_QC		Quality flag for VPD_F
HH	nondimensional	0 = measured; 1 = good quality gapfill; 2 = downscaled from ERA
DD	nondimensional	fraction between 0-1, indicating percentage of measured and good quality gapfill data
WW-YY	nondimensional	fraction between 0-1, indicating percentage of measured and good quality gapfill data (average from daily data)
PA		Atmospheric pressure
HH	kPa	
DD-YY		not available
PA_ERA		Atmospheric pressure, downscaled from ERA, linearly regressed using measured only site data
HH	kPa	
DD	kPa	average from half-hourly data
WW-YY	kPa	average from daily data
PA_F		Atmospheric pressure consolidated from PA and PA_ERA
HH	kPa	PA used if measured
DD	kPa	average from half-hourly data
WW-YY	kPa	average from daily data
PA_F_QC		Quality flag for PA_F
HH	nondimensional	0 = measured; 2 = downscaled from ERA
DD	nondimensional	fraction between 0-1, indicating percentage of measured data
WW-YY	nondimensional	fraction between 0-1, indicating percentage of measured data (average from daily data)
P		Precipitation
HH	mm	
DD-YY		not available
P_ERA		Precipitation, downscaled from ERA, linearly regressed using measured only site data
HH	mm	(mm per dataset resolution: either hour or half-hour)
DD	mm d-1	sum from half-hourly data (mm per day)
WW-MM	mm d-1	average from daily data (mm per day)
YY	mm y-1	sum from daily data (mm per year)
P_F		Precipitation consolidated from P and P_ERA
HH	mm	P used if measured (mm per dataset resolution: either hour or half-hour)
DD	mm d-1	sum from half-hourly data (mm per day)
WW-MM	mm d-1	average from daily data (mm per day)

	YY	mm y-1	sum from daily data (mm per year)
P_F_QC			Quality flag for P_F
	HH	nondimensional	0 = measured; 2 = downscaled from ERA
	DD	nondimensional	fraction between 0-1, indicating percentage of measured data
	WW-YY	nondimensional	fraction between 0-1, indicating percentage of measured data (average from daily data)
WS			Wind speed
	HH	m s-1	
	DD-YY		not available
WS_ERA			Wind speed, downscaled from ERA, linearly regressed using measured only site data
	HH	m s-1	
	DD	m s-1	average from half-hourly data
	WW-YY	m s-1	average from daily data
WS_F			Wind speed, consolidated from WS and WS_ERA
	HH	m s-1	WS used if measured
	DD	m s-1	average from half-hourly data
	WW-YY	m s-1	average from daily data
WS_F_QC			Quality flag of WS_F
	HH	nondimensional	0 = measured; 2 = downscaled from ERA
	DD	nondimensional	fraction between 0-1, indicating percentage of measured data
	WW-YY	nondimensional	fraction between 0-1, indicating percentage of measured data (average from daily data)
WD			Wind direction
	HH	Decimal degrees	
	DD-YY		not available
RH			Relative humidity, range 0-100
	HH	%	
	DD-YY		not available
USTAR			Friction velocity
	HH	m s-1	
	DD	m s-1	average from half-hourly data (only days with more than 50% records available)
	WW-YY	m s-1	average from daily data (only periods with more than 50% records available)
USTAR_QC			Quality flag of USTAR
	HH		not available
	DD	nondimensional	fraction between 0-1, indicating percentage of data available (measured)
	WW-YY	nondimensional	fraction between 0-1, indicating percentage of data available (average from daily data)
NETRAD			Net radiation
	HH	W m-2	
	DD	W m-2	average from half-hourly data (only days with more than 50% records available)

WW-YY	W m-2	average from daily data (only periods with more than 50% records available)
NETRAD_QC		Quality flag of NETRAD
HH		not available
DD	nondimensional	fraction between 0-1, indicating percentage of data available (measured)
WW-YY	nondimensional	fraction between 0-1, indicating percentage of data available (average from daily data)
PPFD_IN		Photosynthetic photon flux density, incoming
HH	µmolPhoton m-2 s-1	
DD	µmolPhoton m-2 s-1	average from half-hourly data (only days with more than 50% records available)
WW-YY	µmolPhoton m-2 s-1	average from daily data (only periods with more than 50% records available)
PPFD_IN_QC		Quality flag of PPFD_IN
HH		not available
DD	nondimensional	fraction between 0-1, indicating percentage of data available (measured)
WW-YY	nondimensional	fraction between 0-1, indicating percentage of data available (average from daily data)
PPFD_DIF		Photosynthetic photon flux density, diffuse incoming
HH	µmolPhoton m-2 s-1	
DD	µmolPhoton m-2 s-1	average from half-hourly data (only days with more than 50% records available)
WW-YY	µmolPhoton m-2 s-1	average from daily data (only periods with more than 50% records available)
PPFD_DIF_QC		Quality flag of PPFD_DIF
HH		not available
DD	nondimensional	fraction between 0-1, indicating percentage of data available (measured)
WW-YY	nondimensional	fraction between 0-1, indicating percentage of data available (average from daily data)
PPFD_OUT		Photosynthetic photon flux density, outgoing
HH	µmolPhoton m-2 s-1	
DD	µmolPhoton m-2 s-1	average from half-hourly data (only days with more than 50% records available)
WW-YY	µmolPhoton m-2 s-1	average from daily data (only periods with more than 50% records available)
PPFD_OUT_QC		Quality flag of PPFD_OUT
HH		not available
DD	nondimensional	fraction between 0-1, indicating percentage of data available (measured)
WW-YY	nondimensional	fraction between 0-1, indicating percentage of data available (average from daily data)
SW_DIF		Shortwave radiation, diffuse incoming
HH	W m-2	
DD	W m-2	average from half-hourly data (only days with more than 50% records available)

WW-YY	W m-2	average from daily data (only periods with more than 50% records available)
SW_DIF_QC		Quality flag of SW_DIF
HH		not available
DD	nondimensional	fraction between 0-1, indicating percentage of data available (measured)
WW-YY	nondimensional	fraction between 0-1, indicating percentage of data available (average from daily data)
SW_OUT		Shortwave radiation, outgoing
HH	W m-2	
DD	W m-2	average from half-hourly data (only days with more than 50% records available)
WW-YY	W m-2	average from daily data (only periods with more than 50% records available)
SW_OUT_QC		Quality flag of SW_OUT
HH		not available
DD	nondimensional	fraction between 0-1, indicating percentage of data available (measured)
WW-YY	nondimensional	fraction between 0-1, indicating percentage of data available (average from daily data)
LW_OUT		Longwave radiation, outgoing
HH	W m-2	
DD	W m-2	average from half-hourly data (only days with more than 50% records available)
WW-YY	W m-2	average from daily data (only periods with more than 50% records available)
LW_OUT_QC		Quality flag of LW_OUT
HH		not available
DD	nondimensional	fraction between 0-1, indicating percentage of data available (measured)
WW-YY	nondimensional	fraction between 0-1, indicating percentage of data available (average from daily data)
CO2_F_MDS		CO2 mole fraction, gapfilled with MDS
HH	µmolCO2 mol-1	
DD	µmolCO2 mol-1	average from half-hourly data
WW-YY	µmolCO2 mol-1	average from daily data
CO2_F_MDS_QC		Quality flag for CO2_F_MDS
HH	nondimensional	0 = measured; 1 = good quality gapfill; 2 = medium; 3 = poor
DD	nondimensional	fraction between 0-1, indicating percentage of measured and good quality gapfill data
WW-YY	nondimensional	fraction between 0-1, indicating percentage of measured and good quality gapfill data (average from daily data)
TS_F_MDS_#		Soil temperature, gapfilled with MDS (numeric index "#" increases with the depth, 1 is shallowest)
HH	deg C	
DD	deg C	average from half-hourly data
WW-YY	deg C	average from daily data

TS_F_MDS_#_QC		Quality flag for TS_F_MDS_#
HH	nondimensional	0 = measured; 1 = good quality gapfill; 2 = medium; 3 = poor
DD	nondimensional	fraction between 0-1, indicating percentage of measured and good quality gapfill data
WW-YY	nondimensional	fraction between 0-1, indicating percentage of measured and good quality gapfill data (average from daily data)
SWC_F_MDS_#		Soil water content, gapfilled with MDS (numeric index "#" increases with the depth, 1 is shallowest)
HH	%	
DD	%	average from half-hourly data
WW-YY	%	average from daily data
SWC_F_MDS_#_QC		Quality flag for SWC_F_MDS_#
HH	nondimensional	0 = measured; 1 = good quality gapfill; 2 = medium; 3 = poor
DD	nondimensional	fraction between 0-1, indicating percentage of measured and good quality gapfill data
WW-YY	nondimensional	fraction between 0-1, indicating percentage of measured and good quality gapfill data (average from daily data)
ENERGY PROCESSING		
G_F_MDS		Soil heat flux
HH	W m-2	
DD	W m-2	average from half-hourly data
WW-YY	W m-2	average from daily data
G_F_MDS_QC		Quality flag of G_F_MDS
HH	nondimensional	0 = measured; 1 = good quality gapfill; 2 = medium; 3 = poor
DD	nondimensional	fraction between 0-1, indicating percentage of measured and good quality gapfill data
WW-YY	nondimensional	fraction between 0-1, indicating percentage of measured and good quality gapfill data (average from daily data)
LE_F_MDS		Latent heat flux, gapfilled using MDS method
HH	W m-2	
DD	W m-2	average from half-hourly data
WW-YY	W m-2	average from daily data
LE_F_MDS_QC		Quality flag for LE_F_MDS, LE_CORR, LE_CORR25, and LE_CORR75.
HH	nondimensional	0 = measured; 1 = good quality gapfill; 2 = medium; 3 = poor
DD	nondimensional	fraction between 0-1, indicating percentage of measured and good quality gapfill data
WW-YY	nondimensional	fraction between 0-1, indicating percentage of measured and good quality gapfill data (average from daily data)
LE_CORR		Latent heat flux, corrected LE_F_MDS by energy balance closure correction factor

HH	W m-2	
DD	W m-2	average from half-hourly data
WW-YY	W m-2	average from daily data
LE_CORR_25		Latent heat flux, corrected LE_F_MDS by energy balance closure correction factor, 25th percentile
HH	W m-2	
DD	W m-2	average from half-hourly data
WW-YY		not available
LE_CORR_75		Latent heat flux, corrected LE_F_MDS by energy balance closure correction factor, 75th percentile
HH	W m-2	
DD	W m-2	average from half-hourly data
WW-YY		not available
LE_RANDUNC		Random uncertainty of LE, from measured only data
HH	W m-2	uses only data point where LE_F_MDS_QC is 0 and two hierarchical methods (see header and LE_RANDUNC_METHOD)
DD-YY	W m-2	from random uncertainty of individual half-hours (rand(i)) = [SQRT(SUM(rand(i)^2)) / n], where n is the number of half-hours used
LE_RANDUNC_METHOD		Method used to estimate the random uncertainty of LE
HH	nondimensional	1 = RANDUNC Method 1 (direct SD method), 2 = RANDUNC Method 2 (median SD method)
DD-YY		not available
LE_RANDUNC_N		Number of half-hour data points used to estimate the random uncertainty of LE
HH	nondimensional	
DD-YY		not available
LE_CORR_JOINTUNC		Joint uncertainty estimation for LE
HH-DD	W m-2	[SQRT(LE_RANDUNC^2 + ((LE_CORR75 - LE_CORR25) / 1.349)^2)]
WW-YY		not available
H_F_MDS		Sensible heat flux, gapfilled using MDS method
HH	W m-2	
DD	W m-2	average from half-hourly data
WW-YY	W m-2	average from daily data
H_F_MDS_QC		Quality flag for H_F_MDS, H_CORR, H_CORR25, and H_CORR75.
HH	nondimensional	0 = measured; 1 = good quality gapfill; 2 = medium; 3 = poor
DD	nondimensional	fraction between 0-1, indicating percentage of measured and good quality gapfill data
WW-YY	nondimensional	fraction between 0-1, indicating percentage of measured and good quality gapfill data (average from daily data)
H_CORR		Sensible heat flux, corrected H_F_MDS by energy balance closure correction factor
HH	W m-2	

DD	W m-2	average from half-hourly data
WW-YY	W m-2	average from daily data
H_CORR_25		Sensible heat flux, corrected H_F_MDS by energy balance closure correction factor, 25th percentile
HH	W m-2	
DD	W m-2	average from half-hourly data
WW-YY		not available
H_CORR_75		Sensible heat flux, corrected H_F_MDS by energy balance closure correction factor, 75th percentile
HH	W m-2	
DD	W m-2	average from half-hourly data
WW-YY		not available
H_RANDUNC		Random uncertainty of H, from measured only data
HH	W m-2	uses only data point where H_F_MDS_QC is 0 and two hierarchical methods (see header and H_RANDUNC_METHOD)
DD-YY	W m-2	from random uncertainty of individual half-hours (rand(i)) = [SQRT(SUM(rand(i)^2)) / n], where n is the number of half-hours used
H_RANDUNC_METHOD		Method used to estimate the random uncertainty of H
HH	nondimensional	1 = RANDUNC Method 1 (direct SD method), 2 = RANDUNC Method 2 (median SD method)
DD-YY		not available
H_RANDUNC_N		Number of half-hour data points used to estimate the random uncertainty of H
HH	nondimensional	
DD-YY		not available
H_CORR_JOINTUNC		Joint uncertainty estimation for H
HH-DD	W m-2	[SQRT(H_RANDUNC^2 + ((H_CORR75 - H_CORR25) / 1.349)^2)]
WW-YY		not available
EBC_CF_N		Number of data points used to calculate energy closure balance correction factor. Driver data points within sliding window (ECB_CF Method 1) or number of ECB_CF data points (for ECB_CF Methods 2 and 3)
HH	nondimensional	for ECB_CF Method 1 (minimum 5, maximum 93)
DD	nondimensional	for ECB_CF Method 1 (minimum 5, maximum 15)
WW-YY	nondimensional	fraction between 0-1, indicating percentages of half-hours used with respect to theoretical maximum number of half hours
EBC_CF_METHOD		Method used to calculate the energy balance closure correction factor
HH-YY	nondimensional	1 = ECB_CF Method 1, 2 = ECB_CF Method 2, 3 = ECB_CF Method 3. See general description for details
NET ECOSYSTEM EXCHANGE		

NIGHT		Flag indicating nighttime interval based on SW_IN_POT
HH	nondimensional	0 = daytime, 1 = nighttime
DD-YY		not available
NIGHT_D		Number of half hours classified as nighttime in the period, i.e., when SW_IN_POT is 0
HH		not available
DD	nondimensional	number of half-hours
WW-MM	nondimensional	number of halfhours (average of the daily data)
YY		not available
DAY_D		Number of half hours classified as daytime in the period, i.e., when SW_IN_POT is greater than 0
HH		not available
DD	nondimensional	number of half-hours
WW-MM	nondimensional	number of halfhours (average of the daily data)
YY		not available
NIGHT_RANDUNC_N		Number of half hours classified as nighttime and used to calculate the aggregated random uncertainty
HH		not available
DD	nondimensional	number of half-hours
WW-YY	nondimensional	number of halfhours (average of the daily data)
DAY_RANDUNC_N		Number of half hours classified as daytime and used to calculate the aggregated random uncertainty
HH		not available
DD	nondimensional	number of half-hours
WW-YY	nondimensional	number of halfhours (average of the daily data)
NEE_CUT_REF		Net Ecosystem Exchange, using Constant Ustar Threshold (CUT) across years, reference selected on the basis of the model efficiency (MEF). The MEF analysis is repeated for each time aggregation
HH	µmolCO2 m-2 s-1	
DD	gC m-2 d-1	calculated from half-hourly data
WW-MM	gC m-2 d-1	average from daily data
YY	gC m-2 y-1	sum from daily data
NEE_VUT_REF		Net Ecosystem Exchange, using Variable Ustar Threshold (VUT) for each year, reference selected on the basis of the model efficiency (MEF). The MEF analysis is repeated for each time aggregation
HH	µmolCO2 m-2 s-1	
DD	gC m-2 d-1	calculated from half-hourly data
WW-MM	gC m-2 d-1	average from daily data
YY	gC m-2 y-1	sum from daily data
NEE_CUT_REF_QC		Quality flag for NEE_CUT_REF
HH	nondimensional	0 = measured; 1 = good quality gapfill; 2 = medium; 3 = poor
DD	nondimensional	fraction between 0-1, indicating percentage of measured and good quality gapfill data

WW-YY	nondimensional	fraction between 0-1, indicating percentage of measured and good quality gapfill data (average from daily data)
NEE_VUT_REF_QC		Quality flag for NEE_VUT_REF
HH	nondimensional	0 = measured; 1 = good quality gapfill; 2 = medium; 3 = poor
DD	nondimensional	fraction between 0-1, indicating percentage of measured and good quality gapfill data
WW-YY	nondimensional	fraction between 0-1, indicating percentage of measured and good quality gapfill data (average from daily data)
NEE_CUT_REF_RANDUNC		Random uncertainty for NEE_CUT_REF, from measured only data
HH	µmolCO2 m-2 s-1	uses only data points where NEE_CUT_REF_QC is 0 and two hierarchical methods - see header and NEE_CUT_REF_RANDUNC_METHOD
DD-MM	gC m-2 d-1	from random uncertainty of individual half-hours (rand(i)) = [SQRT(SUM(rand(i)^2)) / n], where n is the number of half-hours used
YY	gC m-2 y-1	from random uncertainty of individual half-hours (rand(i)) = [SQRT(SUM(rand(i)^2)) / n], where n is the number of half-hours used
NEE_VUT_REF_RANDUNC		Random uncertainty for NEE_VUT_REF, from measured only data
HH	µmolCO2 m-2 s-1	uses only data points where NEE_VUT_REF_QC is 0 and two hierarchical methods - see header and NEE_VUT_REF_RANDUNC_METHOD
DD-MM	gC m-2 d-1	from random uncertainty of individual half-hours (rand(i)) = [SQRT(SUM(rand(i)^2)) / n], where n is the number of half-hours used
YY	gC m-2 y-1	from random uncertainty of individual half-hours (rand(i)) = [SQRT(SUM(rand(i)^2)) / n], where n is the number of half-hours used
NEE_CUT_REF_RANDUNC_METHOD		Method used to estimate the random uncertainty of NEE_CUT_REF
HH	nondimensional	1 = RANDUNC Method 1 (direct SD method), 2 = RANDUNC Method 2 (median SD method)
DD-YY		not available
NEE_VUT_REF_RANDUNC_METHOD		Method used to estimate the random uncertainty of NEE_VUT_REF
HH	nondimensional	1 = RANDUNC Method 1 (direct SD method), 2 = RANDUNC Method 2 (median SD method)
DD-YY		not available
NEE_CUT_REF_RANDUNC_N		Number of data points used to estimate the random uncertainty of NEE_CUT_REF
HH	nondimensional	
DD-YY		not available
NEE_VUT_REF_RANDUNC_N		Number of data points used to estimate the random uncertainty of NEE_VUT_REF
HH	nondimensional	
DD-YY		not available

NEE_CUT_REF_JOINTUNC		Joint uncertainty estimation for NEE_CUT_REF, including random uncertainty and USTAR filtering uncertainty
HH	µmolCO2 m-2 s-1	[SQRT(NEE_CUT_REF_RANDUNC^2 + ((NEE_CUT_84 - NEE_CUT_16) / 2)^2)] for each half-hour
DD	gC m-2 d-1	[SQRT(NEE_CUT_REF_RANDUNC^2 + ((NEE_CUT_84 - NEE_CUT_16) / 2)^2)] for each day
WW	gC m-2 d-1	[SQRT(NEE_CUT_REF_RANDUNC^2 + ((NEE_CUT_84 - NEE_CUT_16) / 2)^2)] for each week
MM	gC m-2 d-1	[SQRT(NEE_CUT_REF_RANDUNC^2 + ((NEE_CUT_84 - NEE_CUT_16) / 2)^2)] for each month
YY	gC m-2 y-1	[SQRT(NEE_CUT_REF_RANDUNC^2 + ((NEE_CUT_84 - NEE_CUT_16) / 2)^2)] for each year
NEE_VUT_REF_JOINTUNC		Joint uncertainty estimation for NEE_VUT_REF, including random uncertainty and USTAR filtering uncertainty
HH	µmolCO2 m-2 s-1	[SQRT(NEE_VUT_REF_RANDUNC^2 + ((NEE_VUT_84 - NEE_VUT_16) / 2)^2)] for each half-hour
DD	gC m-2 d-1	[SQRT(NEE_VUT_REF_RANDUNC^2 + ((NEE_VUT_84 - NEE_VUT_16) / 2)^2)] for each day
WW	gC m-2 d-1	[SQRT(NEE_VUT_REF_RANDUNC^2 + ((NEE_VUT_84 - NEE_VUT_16) / 2)^2)] for each week
MM	gC m-2 d-1	[SQRT(NEE_VUT_REF_RANDUNC^2 + ((NEE_VUT_84 - NEE_VUT_16) / 2)^2)] for each month
YY	gC m-2 y-1	[SQRT(NEE_VUT_REF_RANDUNC^2 + ((NEE_VUT_84 - NEE_VUT_16) / 2)^2)] for each year
NEE_CUT_USTAR50		Net Ecosystem Exchange, using Constant Ustar Threshold (CUT) across years, from 50 percentile of USTAR threshold
HH	µmolCO2 m-2 s-1	
DD	gC m-2 d-1	calculated from half-hourly data
WW-MM	gC m-2 d-1	average from daily data
YY	gC m-2 y-1	sum from daily data
NEE_VUT_USTAR50		Net Ecosystem Exchange, using Variable Ustar Threshold (VUT) for each year, from 50 percentile of USTAR threshold
HH	µmolCO2 m-2 s-1	
DD	gC m-2 d-1	calculated from half-hourly data
WW-MM	gC m-2 d-1	average from daily data
YY	gC m-2 y-1	sum from daily data
NEE_CUT_USTAR50_QC		Quality flag for NEE_CUT_USTAR50
HH	nondimensional	0 = measured; 1 = good quality gapfill; 2 = medium; 3 = poor

DD	nondimensional	fraction between 0-1, indicating percentage of measured and good quality gapfill data
WW-YY	nondimensional	fraction between 0-1, indicating percentage of measured and good quality gapfill data (average from daily data)
NEE_VUT_USTAR50_QC		Quality flag for NEE_VUT_USTAR50
HH	nondimensional	0 = measured; 1 = good quality gapfill; 2 = medium; 3 = poor
DD	nondimensional	fraction between 0-1, indicating percentage of measured and good quality gapfill data
WW-YY	nondimensional	fraction between 0-1, indicating percentage of measured and good quality gapfill data (average from daily data)
NEE_CUT_USTAR50_RANDUNC		Random uncertainty for NEE_CUT_USTAR50, from measured only data
HH	µmolCO2 m-2 s-1	uses only data points where NEE_CUT_USTAR50_QC is 0 and two hierarchical methods - see header and NEE_CUT_USTAR50_RANDUNC_METHOD
DD-MM	gC m-2 d-1	from random uncertainty of individual half-hours (rand(i)) = [SQRT(SUM(rand(i)^2)) / n], where n is the number of half-hours used
YY	gC m-2 y-1	from random uncertainty of individual half-hours (rand(i)) = [SQRT(SUM(rand(i)^2)) / n], where n is the number of half-hours used
NEE_VUT_USTAR50_RANDUNC		Random uncertainty for NEE_VUT_USTAR50, from measured only data
HH	µmolCO2 m-2 s-1	uses only data points where NEE_VUT_USTAR50_QC is 0 and two hierarchical methods see header and NEE_VUT_USTAR50_RANDUNC_METHOD
DD-MM	gC m-2 d-1	from random uncertainty of individual half-hours (rand(i)) = [SQRT(SUM(rand(i)^2)) / n], where n is the number of half-hours used
YY	gC m-2 y-1	from random uncertainty of individual half-hours (rand(i)) = [SQRT(SUM(rand(i)^2)) / n], where n is the number of half-hours used
NEE_CUT_USTAR50_RANDUNC_METHOD		Method used to estimate the random uncertainty of NEE_CUT_USTAR50
HH	nondimensional	1 = RANDUNC Method 1 (direct SD method), 2 = RANDUNC Method 2 (median SD method)
DD-YY		not available
NEE_VUT_USTAR50_RANDUNC_METHOD		Method used to estimate the random uncertainty of NEE_VUT_USTAR50
HH	nondimensional	1 = RANDUNC Method 1 (direct SD method), 2 = RANDUNC Method 2 (median SD method)
DD-YY		not available
NEE_CUT_USTAR50_RANDUNC_N		Number of half-hour data points used to estimate the random uncertainty of NEE_CUT_USTAR50
HH	nondimensional	
DD-YY		not available
NEE_VUT_USTAR50_RANDUNC_N		Number of half-hour data points used to estimate the random uncertainty of NEE_VUT_USTAR50

HH	nondimensional	
DD-YY		not available
NEE_CUT_USTAR50_JOINTUNC		Joint uncertainty estimation for NEE_CUT_USTAR50, including random uncertainty and USTAR filtering uncertainty
HH	µmolCO2 m-2 s-1	[SQRT(NEE_CUT_USTAR50_RANDUNC^2 + ((NEE_CUT_84 - NEE_CUT_16) / 2)^2)] for each half-hour
DD	gC m-2 d-1	[SQRT(NEE_CUT_USTAR50_RANDUNC^2 + ((NEE_CUT_84 - NEE_CUT_16) / 2)^2)] for each day
WW	gC m-2 d-1	[SQRT(NEE_CUT_USTAR50_RANDUNC^2 + ((NEE_CUT_84 - NEE_CUT_16) / 2)^2)] for each week
MM	gC m-2 d-1	[SQRT(NEE_CUT_USTAR50_RANDUNC^2 + ((NEE_CUT_84 - NEE_CUT_16) / 2)^2)] for each month
YY	gC m-2 y-1	[SQRT(NEE_CUT_USTAR50_RANDUNC^2 + ((NEE_CUT_84 - NEE_CUT_16) / 2)^2)] for each year
NEE_VUT_USTAR50_JOINTUNC		Joint uncertainty estimation for NEE_VUT_USTAR50, including random uncertainty and USTAR filtering uncertainty
HH	µmolCO2 m-2 s-1	[SQRT(NEE_VUT_USTAR50_RANDUNC^2 + ((NEE_VUT_84 - NEE_VUT_16) / 2)^2)] for each half-hour
DD	gC m-2 d-1	[SQRT(NEE_VUT_USTAR50_RANDUNC^2 + ((NEE_VUT_84 - NEE_VUT_16) / 2)^2)] for each day
WW	gC m-2 d-1	[SQRT(NEE_VUT_USTAR50_RANDUNC^2 + ((NEE_VUT_84 - NEE_VUT_16) / 2)^2)] for each week
MM	gC m-2 d-1	[SQRT(NEE_VUT_USTAR50_RANDUNC^2 + ((NEE_VUT_84 - NEE_VUT_16) / 2)^2)] for each month
YY	gC m-2 y-1	[SQRT(NEE_VUT_USTAR50_RANDUNC^2 + ((NEE_VUT_84 - NEE_VUT_16) / 2)^2)] for each year
NEE_CUT_MEAN		Net Ecosystem Exchange, using Constant Ustar Threshold (CUT) across years, average from 40 NEE_CUT_XX versions
HH	µmolCO2 m-2 s-1	average from 40 half-hourly NEE_CUT_XX
DD	gC m-2 d-1	average from 40 daily NEE_CUT_XX
WW	gC m-2 d-1	average from 40 weekly NEE_CUT_XX
MM	gC m-2 d-1	average from 40 monthly NEE_CUT_XX
YY	gC m-2 y-1	average from 40 yearly NEE_CUT_XX
NEE_VUT_MEAN		Net Ecosystem Exchange, using Variable Ustar Threshold (VUT) for each year, average from 40 NEE_VUT_XX versions
HH	µmolCO2 m-2 s-1	average from 40 half-hourly NEE_CUT_XX
DD	gC m-2 d-1	average from 40 daily NEE_CUT_XX
WW	gC m-2 d-1	average from 40 weekly NEE_CUT_XX
MM	gC m-2 d-1	average from 40 monthly NEE_CUT_XX

YY	gC m-2 y-1	average from 40 yearly NEE_CUT_XX
NEE_CUT_MEAN_QC		Quality flag for NEE_CUT_MEAN, fraction between 0-1 indicating percentage of good quality data
HH	nondimensional	average of percentages of good data (NEE_CUT_XX_QC is 0 or 1) from 40 NEE_CUT_XX_QC
DD-YY	nondimensional	average of 40 NEE_CUT_XX_QC for the period
NEE_VUT_MEAN_QC		Quality flag for NEE_VUT_MEAN, fraction between 0-1 indicating percentage of good quality data
HH	nondimensional	average of percentages of good data (NEE_VUT_XX_QC is 0 or 1) from 40 NEE_VUT_XX_QC
DD-YY	nondimensional	average of 40 NEE_VUT_XX_QC for the period
NEE_CUT_SE		Standard Error for NEE_CUT, calculated as SD (NEE_CUT_XX) / SQRT(40)
HH	µmolCO2 m-2 s-1	SE from 40 half-hourly NEE_CUT_XX
DD	gC m-2 d-1	SE from 40 daily NEE_CUT_XX
WW	gC m-2 d-1	SE from 40 weekly NEE_CUT_XX
MM	gC m-2 d-1	SE from 40 monthly NEE_CUT_XX
YY	gC m-2 y-1	SE from 40 yearly NEE_CUT_XX
NEE_VUT_SE		Standard Error for NEE_VUT, calculated as SD (NEE_VUT_XX) / SQRT(40)
HH	µmolCO2 m-2 s-1	SE from 40 half-hourly NEE_CUT_XX
DD	gC m-2 d-1	SE from 40 daily NEE_CUT_XX
WW	gC m-2 d-1	SE from 40 weekly NEE_CUT_XX
MM	gC m-2 d-1	SE from 40 monthly NEE_CUT_XX
YY	gC m-2 y-1	SE from 40 yearly NEE_CUT_XX
NEE_CUT_XX		NEE CUT percentiles (approx. percentile indicated by XX, see doc.) calculated from the 40 estimates aggregated at the different time resolutions -- XX = 05, 16, 25, 50, 75, 84, 95
HH	µmolCO2 m-2 s-1	XXth percentile from 40 half-hourly NEE_CUT_XX
DD	gC m-2 d-1	XXth percentile from 40 daily NEE_CUT_XX
WW	gC m-2 d-1	XXth percentile from 40 weekly NEE_CUT_XX
MM	gC m-2 d-1	XXth percentile from 40 monthly NEE_CUT_XX
YY	gC m-2 y-1	XXth percentile from 40 yearly NEE_CUT_XX
NEE_VUT_XX		NEE VUT percentiles (approx. percentile indicated by XX, see doc.) calculated from the 40 estimates aggregated at the different time resolutions -- XX = 05, 16, 25, 50, 75, 84, 95
HH	µmolCO2 m-2 s-1	XXth percentile from 40 half-hourly NEE_VUT_XX
DD	gC m-2 d-1	XXth percentile from 40 daily NEE_VUT_XX
WW	gC m-2 d-1	XXth percentile from 40 weekly NEE_VUT_XX
MM	gC m-2 d-1	XXth percentile from 40 monthly NEE_VUT_XX
YY	gC m-2 y-1	XXth percentile from 40 yearly NEE_VUT_XX
NEE_CUT_XX_QC		Quality flag for NEE_CUT_XX -- XX = 05, 16, 25, 50, 75, 84, 95
HH	nondimensional	0 = measured; 1 = good quality gapfill; 2 = medium; 3 = poor

DD	nondimensional	fraction between 0-1, indicating percentage of measured and good quality gapfill data
WW-YY	nondimensional	fraction between 0-1, indicating percentage of measured and good quality gapfill data (average from daily data)
NEE_VUT_XX_QC		Quality flag for NEE_VUT_XX -- XX = 05, 16, 25, 50, 75, 84, 95
HH	nondimensional	0 = measured; 1 = good quality gapfill; 2 = medium; 3 = poor
DD	nondimensional	fraction between 0-1, indicating percentage of measured and good quality gapfill data
WW-YY	nondimensional	fraction between 0-1, indicating percentage of measured and good quality gapfill data (average from daily data)
NEE_CUT_REF_NIGHT		Average nighttime NEE, from NEE_CUT_REF
HH		not available
DD	µmolCO2 m-2 s-1	average from half-hourly data (where NIGHT is 1)
WW-YY	µmolCO2 m-2 s-1	average from daily data
NEE_VUT_REF_NIGHT		Average nighttime NEE, from NEE_VUT_REF
HH		not available
DD	µmolCO2 m-2 s-1	average from half-hourly data (where NIGHT is 1)
WW-YY	µmolCO2 m-2 s-1	average from daily data
NEE_CUT_REF_NIGHT_SD		Standard Deviation of the nighttime NEE, from the NEE_CUT_REF
HH		not available
DD	µmolCO2 m-2 s-1	from half-hourly data (where NIGHT is 1)
WW-YY	µmolCO2 m-2 s-1	from daily data
NEE_VUT_REF_NIGHT_SD		Standard Deviation of the nighttime NEE, from the NEE_VUT_REF
HH		not available
DD	µmolCO2 m-2 s-1	from half-hourly data (where NIGHT is 1)
WW-YY	µmolCO2 m-2 s-1	from daily data
NEE_CUT_REF_NIGHT_QC		Quality flag for NEE_CUT_REF_NIGHT
HH		not available
DD	nondimensional	fraction between 0-1, indicating percentage of measured and good quality gapfill data
WW-YY	nondimensional	fraction between 0-1, indicating percentage of measured and good quality gapfill data (average from daily data)
NEE_VUT_REF_NIGHT_QC		Quality flag for NEE_VUT_REF_NIGHT
HH		not available
DD	nondimensional	fraction between 0-1, indicating percentage of measured and good quality gapfill data
WW-YY	nondimensional	fraction between 0-1, indicating percentage of measured and good quality gapfill data (average from daily data)
NEE_CUT_REF_NIGHT_RANDUNC		Random uncertainty of NEE_CUT_REF_NIGHT, from the random uncertainty of the single nighttime half-hours
HH		not available

DD-YY	µmolCO2 m-2 s-1	from random uncertainty of individual half-hours where NIGHT is 1 (rand(i)) = [SQRT(SUM(rand(i) ^2)) / n], where n is the number of half-hours used to calculate the nighttime aggregation in the day.
NEE_VUT_REF_NIGHT_RANDUNC		Random uncertainty of NEE_VUT_REF_NIGHT, from the random uncertainty of the single nighttime half-hours
HH		not available
DD-YY	µmolCO2 m-2 s-1	from random uncertainty of individual half-hours where NIGHT is 1 (rand(i)) = [SQRT(SUM(rand(i) ^2)) / n], where n is the number of half-hours used to calculate the nighttime aggregation in the day.
NEE_CUT_REF_NIGHT_JOINTUNC		Joint uncertainty estimation for NEE_CUT_REF_NIGHT, including random uncertainty and USTAR filtering uncertainty
HH		not available
DD	µmolCO2 m-2 s-1	[SQRT(NEE_CUT_REF_NIGHT_RANDUNC^2 + ((NEE_CUT_84_NIGHT - NEE_CUT_16_NIGHT) / 2)^2)] for each day
WW	µmolCO2 m-2 s-1	[SQRT(NEE_CUT_REF_NIGHT_RANDUNC^2 + ((NEE_CUT_84_NIGHT - NEE_CUT_16_NIGHT) / 2)^2)] for each week
MM	µmolCO2 m-2 s-1	[SQRT(NEE_CUT_REF_NIGHT_RANDUNC^2 + ((NEE_CUT_84_NIGHT - NEE_CUT_16_NIGHT) / 2)^2)] for each month
YY	µmolCO2 m-2 s-1	[SQRT(NEE_CUT_REF_NIGHT_RANDUNC^2 + ((NEE_CUT_84_NIGHT - NEE_CUT_16_NIGHT) / 2)^2)] for each year
NEE_VUT_REF_NIGHT_JOINTUNC		Joint uncertainty estimation for NEE_VUT_REF_NIGHT, including random uncertainty and USTAR filtering uncertainty
HH		not available
DD	µmolCO2 m-2 s-1	[SQRT(NEE_VUT_REF_NIGHT_RANDUNC^2 + ((NEE_VUT_84_NIGHT - NEE_VUT_16_NIGHT) / 2)^2)] for each day
WW	µmolCO2 m-2 s-1	[SQRT(NEE_VUT_REF_NIGHT_RANDUNC^2 + ((NEE_VUT_84_NIGHT - NEE_VUT_16_NIGHT) / 2)^2)] for each week
MM	µmolCO2 m-2 s-1	[SQRT(NEE_VUT_REF_NIGHT_RANDUNC^2 + ((NEE_VUT_84_NIGHT - NEE_VUT_16_NIGHT) / 2)^2)] for each month
YY	µmolCO2 m-2 s-1	[SQRT(NEE_VUT_REF_NIGHT_RANDUNC^2 + ((NEE_VUT_84_NIGHT - NEE_VUT_16_NIGHT) / 2)^2)] for each year
NEE_CUT_REF_DAY		Average daytime NEE, from NEE_CUT_REF
HH		not available
DD	µmolCO2 m-2 s-1	average from half-hourly data (where NIGHT is 0)
WW-YY	µmolCO2 m-2 s-1	average from daily data
NEE_VUT_REF_DAY		Average daytime NEE, from NEE_VUT_REF
HH		not available
DD	µmolCO2 m-2 s-1	average from half-hourly data (where NIGHT is 0)
WW-YY	µmolCO2 m-2 s-1	average from daily data

NEE_CUT_REF_DAY_SD		Standard Deviation of the daytime NEE, from the NEE_CUT_REF
HH		not available
DD	µmolCO2 m-2 s-1	from half-hourly data (where NIGHT is 0)
WW-YY	µmolCO2 m-2 s-1	from daily data
NEE_VUT_REF_DAY_SD		Standard Deviation of the daytime NEE, from the NEE_VUT_REF
HH		not available
DD	µmolCO2 m-2 s-1	from half-hourly data (where NIGHT is 0)
WW-YY	µmolCO2 m-2 s-1	from daily data
NEE_CUT_REF_DAY_QC		Quality flag for NEE_CUT_REF_DAY
HH		not available
DD	nondimensional	fraction between 0-1, indicating percentage of measured and good quality gapfill data
WW-YY	nondimensional	fraction between 0-1, indicating percentage of measured and good quality gapfill data (average from daily data)
NEE_VUT_REF_DAY_QC		Quality flag for NEE_VUT_REF_DAY
HH		not available
DD	nondimensional	fraction between 0-1, indicating percentage of measured and good quality gapfill data
WW-YY	nondimensional	fraction between 0-1, indicating percentage of measured and good quality gapfill data (average from daily data)
NEE_CUT_REF_DAY_RANDUNC		Random uncertainty of NEE_CUT_REF_DAY, from the random uncertainty of the single daytime half-hours
HH		not available
DD-YY	µmolCO2 m-2 s-1	from random uncertainty of individual half-hours where NIGHT is 0 (rand(i)) = [SQRT(SUM(rand(i) ^2)) / n], where n is the number of half-hours used to calculate the daytime aggregation in the day.
NEE_VUT_REF_DAY_RANDUNC		Random uncertainty of NEE_VUT_REF_DAY, from the random uncertainty of the single daytime half-hours
HH		not available
DD-YY	µmolCO2 m-2 s-1	from random uncertainty of individual half-hours where NIGHT is 0 (rand(i)) = [SQRT(SUM(rand(i) ^2)) / n], where n is the number of half-hours used to calculate the daytime aggregation in the day.
NEE_CUT_REF_DAY_JOINTUNC		Joint uncertainty estimation for NEE_CUT_REF_DAY, including random uncertainty and USTAR filtering uncertainty
HH		not available
DD	µmolCO2 m-2 s-1	[SQRT(NEE_CUT_REF_DAY_RANDUNC^2 + ((NEE_CUT_84_DAY - NEE_CUT_16_DAY) / 2) ^2)] for each day
WW	µmolCO2 m-2 s-1	[SQRT(NEE_CUT_REF_DAY_RANDUNC^2 + ((NEE_CUT_84_DAY - NEE_CUT_16_DAY) / 2) ^2)] for each week

MM	µmolCO2 m-2 s-1	[SQRT(NEE_CUT_REF_DAY_RANDUNC^2 + ((NEE_CUT_84_DAY - NEE_CUT_16_DAY) / 2) ^2)] for each month
YY	µmolCO2 m-2 s-1	[SQRT(NEE_CUT_REF_DAY_RANDUNC^2 + ((NEE_CUT_84_DAY - NEE_CUT_16_DAY) / 2) ^2)] for each year
NEE_VUT_REF_DAY_JOINTUNC		Joint uncertainty estimation for NEE_VUT_REF_DAY, including random uncertainty and USTAR filtering uncertainty
HH		not available
DD	µmolCO2 m-2 s-1	[SQRT(NEE_VUT_REF_DAY_RANDUNC^2 + ((NEE_VUT_84_DAY - NEE_VUT_16_DAY) / 2) ^2)] for each day
WW	µmolCO2 m-2 s-1	[SQRT(NEE_VUT_REF_DAY_RANDUNC^2 + ((NEE_VUT_84_DAY - NEE_VUT_16_DAY) / 2) ^2)] for each week
MM	µmolCO2 m-2 s-1	[SQRT(NEE_VUT_REF_DAY_RANDUNC^2 + ((NEE_VUT_84_DAY - NEE_VUT_16_DAY) / 2) ^2)] for each month
YY	µmolCO2 m-2 s-1	[SQRT(NEE_VUT_REF_DAY_RANDUNC^2 + ((NEE_VUT_84_DAY - NEE_VUT_16_DAY) / 2) ^2)] for each year
NEE_CUT_USTAR50_NIGHT		Average nighttime NEE, from NEE_CUT_USTAR50
HH		not available
DD	µmolCO2 m-2 s-1	average from half-hourly data (where NIGHT is 1)
WW-YY	µmolCO2 m-2 s-1	average from daily data
NEE_VUT_USTAR50_NIGHT		Average nighttime NEE, from NEE_VUT_USTAR50
HH		not available
DD	µmolCO2 m-2 s-1	average from half-hourly data (where NIGHT is 1)
WW-YY	µmolCO2 m-2 s-1	average from daily data
NEE_CUT_USTAR50_NIGHT_SD		Standard Deviation of the nighttime NEE, from the NEE_CUT_USTAR50
HH		not available
DD	µmolCO2 m-2 s-1	from half-hourly data (where NIGHT is 1)
WW-YY	µmolCO2 m-2 s-1	from daily data
NEE_VUT_USTAR50_NIGHT_SD		Standard Deviation of the nighttime NEE, from the NEE_VUT_USTAR50
HH		not available
DD	µmolCO2 m-2 s-1	from half-hourly data (where NIGHT is 1)
WW-YY	µmolCO2 m-2 s-1	from daily data
NEE_CUT_USTAR50_NIGHT_QC		Quality flag for NEE_CUT_USTAR50_NIGHT
HH		not available
DD	nondimensional	fraction between 0-1, indicating percentage of measured and good quality gapfill data
WW-YY	nondimensional	fraction between 0-1, indicating percentage of measured and good quality gapfill data (average from daily data)
NEE_VUT_USTAR50_NIGHT_QC		Quality flag for NEE_VUT_USTAR50_NIGHT
HH		not available

DD	nondimensional	fraction between 0-1, indicating percentage of measured and good quality gapfill data
WW-YY	nondimensional	fraction between 0-1, indicating percentage of measured and good quality gapfill data (average from daily data)
NEE_CUT_USTAR50_NIGHT_RANDUNC		Random uncertainty of NEE_CUT_USTAR50_NIGHT, from the random uncertainty of the single nighttime half-hours
HH		not available
DD-YY	µmolCO2 m-2 s-1	from random uncertainty of individual half-hours where NIGHT is 1 (rand(i)) = [SQRT(SUM(rand(i) ^2)) / n], where n is the number of half-hours used to calculate the nighttime aggregation in the day.
NEE_VUT_USTAR50_NIGHT_RANDUNC		Random uncertainty of NEE_VUT_USTAR50_NIGHT, from the random uncertainty of the single nighttime half-hours
HH		not available
DD-YY	µmolCO2 m-2 s-1	from random uncertainty of individual half-hours where NIGHT is 1 (rand(i)) = [SQRT(SUM(rand(i) ^2)) / n], where n is the number of half-hours used to calculate the nighttime aggregation in the day.
NEE_CUT_USTAR50_NIGHT_JOINTUNC		Joint uncertainty estimation for NEE_CUT_USTAR50_NIGHT, including random uncertainty and USTAR filtering uncertainty
HH		not available
DD	µmolCO2 m-2 s-1	[SQRT (NEE_CUT_USTAR50_NIGHT_RANDUNC^2 + ((NEE_CUT_84_NIGHT - NEE_CUT_16_NIGHT) / 2)^2)] for each day
WW	µmolCO2 m-2 s-1	[SQRT (NEE_CUT_USTAR50_NIGHT_RANDUNC^2 + ((NEE_CUT_84_NIGHT - NEE_CUT_16_NIGHT) / 2)^2)] for each week
MM	µmolCO2 m-2 s-1	[SQRT (NEE_CUT_USTAR50_NIGHT_RANDUNC^2 + ((NEE_CUT_84_NIGHT - NEE_CUT_16_NIGHT) / 2)^2)] for each month
YY	µmolCO2 m-2 s-1	[SQRT (NEE_CUT_USTAR50_NIGHT_RANDUNC^2 + ((NEE_CUT_84_NIGHT - NEE_CUT_16_NIGHT) / 2)^2)] for each year
NEE_VUT_USTAR50_NIGHT_JOINTUNC		Joint uncertainty estimation for NEE_VUT_USTAR50_NIGHT, including random uncertainty and USTAR filtering uncertainty
HH		not available
DD	µmolCO2 m-2 s-1	[SQRT (NEE_VUT_USTAR50_NIGHT_RANDUNC^2 + ((NEE_VUT_84_NIGHT - NEE_VUT_16_NIGHT) / 2)^2)] for each day
WW	µmolCO2 m-2 s-1	[SQRT (NEE_VUT_USTAR50_NIGHT_RANDUNC^2 + ((NEE_VUT_84_NIGHT - NEE_VUT_16_NIGHT) / 2)^2)] for each week

MM	µmolCO2 m-2 s-1	[SQRT (NEE_VUT_USTAR50_NIGHT_RANDUNC^2 + ((NEE_VUT_84_NIGHT - NEE_VUT_16_NIGHT) / 2)^2)] for each month
YY	µmolCO2 m-2 s-1	[SQRT (NEE_VUT_USTAR50_NIGHT_RANDUNC^2 + ((NEE_VUT_84_NIGHT - NEE_VUT_16_NIGHT) / 2)^2)] for each year
NEE_CUT_USTAR50_DAY		Average daytime NEE, from NEE_CUT_USTAR50
HH		not available
DD	µmolCO2 m-2 s-1	average from half-hourly data (where NIGHT is 0)
WW-YY	µmolCO2 m-2 s-1	average from daily data
NEE_VUT_USTAR50_DAY		Average daytime NEE, from NEE_VUT_USTAR50
HH		not available
DD	µmolCO2 m-2 s-1	average from half-hourly data (where NIGHT is 0)
WW-YY	µmolCO2 m-2 s-1	average from daily data
NEE_CUT_USTAR50_DAY_SD		Standard Deviation of the daytime NEE, from the NEE_CUT_USTAR50
HH		not available
DD	µmolCO2 m-2 s-1	from half-hourly data (where NIGHT is 0)
WW-YY	µmolCO2 m-2 s-1	from daily data
NEE_VUT_USTAR50_DAY_SD		Standard Deviation of the daytime NEE, from the NEE_VUT_USTAR50
HH		not available
DD	µmolCO2 m-2 s-1	from half-hourly data (where NIGHT is 0)
WW-YY	µmolCO2 m-2 s-1	from daily data
NEE_CUT_USTAR50_DAY_QC		Quality flag for NEE_CUT_USTAR50_DAY
HH		not available
DD	nondimensional	fraction between 0-1, indicating percentage of measured and good quality gapfill data
WW-YY	nondimensional	fraction between 0-1, indicating percentage of measured and good quality gapfill data (average from daily data)
NEE_VUT_USTAR50_DAY_QC		Quality flag for NEE_VUT_USTAR50_DAY
HH		not available
DD	nondimensional	fraction between 0-1, indicating percentage of measured and good quality gapfill data
WW-YY	nondimensional	fraction between 0-1, indicating percentage of measured and good quality gapfill data (average from daily data)
NEE_CUT_USTAR50_DAY_RANDUNC		Random uncertainty of NEE_CUT_USTAR50_DAY, from the random uncertainty of the single daytime half-hours
HH		not available
DD-YY	µmolCO2 m-2 s-1	from random uncertainty of individual half-hours where NIGHT is 0 (rand(i)) = [SQRT(SUM(rand(i) ^2)) / n], where n is the number of half-hours used to calculate the daytime aggregation in the day.
NEE_VUT_USTAR50_DAY_RANDUNC		Random uncertainty of NEE_VUT_USTAR50_DAY, from the random uncertainty of the single daytime half-hours

HH		not available
DD-YY	µmolCO2 m-2 s-1	from random uncertainty of individual half-hours where NIGHT is 0 (rand(i)) = [SQRT(SUM(rand(i) ^2)) / n], where n is the number of half-hours used to calculate the daytime aggregation in the day.
NEE_CUT_USTAR50_DAY_JOINTUNC		Joint uncertainty estimation for NEE_CUT_USTAR50_DAY, including random uncertainty and USTAR filtering uncertainty
HH		not available
DD	µmolCO2 m-2 s-1	[SQRT(NEE_CUT_USTAR50_DAY_RANDUNC^2 + ((NEE_CUT_84_DAY - NEE_CUT_16_DAY) / 2) ^2)] for each day
WW	µmolCO2 m-2 s-1	[SQRT(NEE_CUT_USTAR50_DAY_RANDUNC^2 + ((NEE_CUT_84_DAY - NEE_CUT_16_DAY) / 2) ^2)] for each week
MM	µmolCO2 m-2 s-1	[SQRT(NEE_CUT_USTAR50_DAY_RANDUNC^2 + ((NEE_CUT_84_DAY - NEE_CUT_16_DAY) / 2) ^2)] for each month
YY	µmolCO2 m-2 s-1	[SQRT(NEE_CUT_USTAR50_DAY_RANDUNC^2 + ((NEE_CUT_84_DAY - NEE_CUT_16_DAY) / 2) ^2)] for each year
NEE_VUT_USTAR50_DAY_JOINTUNC		Joint uncertainty estimation for NEE_VUT_USTAR50_DAY, including random uncertainty and USTAR filtering uncertainty
HH		not available
DD	µmolCO2 m-2 s-1	SQRT(NEE_VUT_USTAR50_DAY_RANDUNC^2 + ((NEE_VUT_84_DAY - NEE_VUT_16_DAY) / 2)^2) for each day
WW	µmolCO2 m-2 s-1	SQRT(NEE_VUT_USTAR50_DAY_RANDUNC^2 + ((NEE_VUT_84_DAY - NEE_VUT_16_DAY) / 2)^2) for each week
MM	µmolCO2 m-2 s-1	SQRT(NEE_VUT_USTAR50_DAY_RANDUNC^2 + ((NEE_VUT_84_DAY - NEE_VUT_16_DAY) / 2)^2) for each month
YY	µmolCO2 m-2 s-1	SQRT(NEE_VUT_USTAR50_DAY_RANDUNC^2 + ((NEE_VUT_84_DAY - NEE_VUT_16_DAY) / 2)^2) for each year
NEE_CUT_XX_NIGHT		NEE CUT nighttime percentiles (approx. percentile indicated by XX, see doc.) calculated from the 40 estimates aggregated at the different time resolutions -- XX = 05, 16, 25, 50, 75, 84, 95
HH		not available
DD	µmolCO2 m-2 s-1	XXth nighttime percentile from 40 daily NEE_CUT_XX_NIGHT
WW	µmolCO2 m-2 s-1	XXth nighttime percentile from 40 weekly NEE_CUT_XX_NIGHT
MM	µmolCO2 m-2 s-1	XXth nighttime percentile from 40 monthly NEE_CUT_XX_NIGHT
YY	µmolCO2 m-2 s-1	XXth nighttime percentile from 40 yearly NEE_CUT_XX_NIGHT
NEE_VUT_XX_NIGHT		NEE VUT nighttime percentiles (approx. percentile indicated by XX, see doc.) calculated from the 40 estimates aggregated at the different time resolutions -- XX = 05, 16, 25, 50, 75, 84, 95

HH		not available
DD	µmolCO2 m-2 s-1	XXth nighttime percentile from 40 daily NEE_VUT_XX_NIGHT
WW	µmolCO2 m-2 s-1	XXth nighttime percentile from 40 weekly NEE_VUT_XX_NIGHT
MM	µmolCO2 m-2 s-1	XXth nighttime percentile from 40 monthly NEE_VUT_XX_NIGHT
YY	µmolCO2 m-2 s-1	XXth nighttime percentile from 40 yearly NEE_VUT_XX_NIGHT
NEE_CUT_XX_NIGHT_QC		Quality flag for NEE_CUT_XX_NIGHT -- XX = 05, 16, 25, 50, 75, 84, 95
HH		not available
DD	nondimensional	fraction between 0-1, indicating percentage of measured and good quality gapfill data
WW-YY	nondimensional	fraction between 0-1, indicating percentage of measured and good quality gapfill data (average from daily data)
NEE_VUT_XX_NIGHT_QC		Quality flag for NEE_VUT_XX_NIGHT -- XX = 05, 16, 25, 50, 75, 84, 95
HH		not available
DD	nondimensional	fraction between 0-1, indicating percentage of measured and good quality gapfill data
WW-YY	nondimensional	fraction between 0-1, indicating percentage of measured and good quality gapfill data (average from daily data)
NEE_CUT_XX_DAY		NEE CUT daytime percentiles (approx. percentile indicated by XX, see doc.) calculated from the 40 estimates aggregated at the different time resolutions -- XX = 05, 16, 25, 50, 75, 84, 95
HH		not available
DD	µmolCO2 m-2 s-1	XXth daytime percentile from 40 daily NEE_CUT_XX_DAY
WW	µmolCO2 m-2 s-1	XXth daytime percentile from 40 weekly NEE_CUT_XX_DAY
MM	µmolCO2 m-2 s-1	XXth daytime percentile from 40 monthly NEE_CUT_XX_DAY
YY	µmolCO2 m-2 s-1	XXth daytime percentile from 40 yearly NEE_CUT_XX_DAY
NEE_VUT_XX_DAY		NEE VUT daytime percentiles (approx. percentile indicated by XX, see doc.) calculated from the 40 estimates aggregated at the different time resolutions -- XX = 05, 16, 25, 50, 75, 84, 95
HH		not available
DD	µmolCO2 m-2 s-1	XXth daytime percentile from 40 daily NEE_VUT_XX_DAY
WW	µmolCO2 m-2 s-1	XXth daytime percentile from 40 weekly NEE_VUT_XX_DAY
MM	µmolCO2 m-2 s-1	XXth daytime percentile from 40 monthly NEE_VUT_XX_DAY
YY	µmolCO2 m-2 s-1	XXth daytime percentile from 40 yearly NEE_VUT_XX_DAY
NEE_CUT_XX_DAY_QC		Quality flag for NEE_CUT_XX_DAY -- XX = 05, 16, 25, 50, 75, 84, 95

HH		not available
DD	nondimensional	fraction between 0-1, indicating percentage of measured and good quality gapfill data
WW-YY	nondimensional	fraction between 0-1, indicating percentage of measured and good quality gapfill data (average from daily data)
NEE_VUT_XX_DAY_QC		Quality flag for NEE_VUT_XX_DAY -- XX = 05, 16, 25, 50, 75, 84, 95
HH		not available
DD	nondimensional	fraction between 0-1, indicating percentage of measured and good quality gapfill data
WW-YY	nondimensional	fraction between 0-1, indicating percentage of measured and good quality gapfill data (average from daily data)
PARTITIONING		
NIGHTTIME		
RECO_NT_VUT_REF		Ecosystem Respiration, from Nighttime partitioning method, reference selected from RECO versions using model efficiency (MEF). The MEF analysis is repeated for each time aggregation
HH	µmolCO2 m-2 s-1	
DD	gC m-2 d-1	calculated from half-hourly data
WW-MM	gC m-2 d-1	average from daily data
YY	gC m-2 y-1	sum from daily data
RECO_NT_VUT_USTAR50		Ecosystem Respiration, from Nighttime partitioning method, based on NEE_VUT_USTAR50
HH	µmolCO2 m-2 s-1	
DD	gC m-2 d-1	calculated from half-hourly data
WW-MM	gC m-2 d-1	average from daily data
YY	gC m-2 y-1	sum from daily data
RECO_NT_VUT_MEAN		Ecosystem Respiration, from Nighttime partitioning method, average from RECO versions, each from corresponding NEE_VUT_XX version
HH	µmolCO2 m-2 s-1	average from 40 half-hourly RECO_NT_VUT_XX
DD	gC m-2 d-1	average from 40 daily RECO_NT_VUT_XX
WW	gC m-2 d-1	average from 40 weekly RECO_NT_VUT_XX
MM	gC m-2 d-1	average from 40 monthly RECO_NT_VUT_XX
YY	gC m-2 y-1	average from 40 yearly RECO_NT_VUT_XX
RECO_NT_VUT_SE		Standard Error for Ecosystem Respiration, calculated as (SD(RECO_NT_VUT_XX) / SQRT (40))
HH	µmolCO2 m-2 s-1	SE from 40 half-hourly RECO_NT_CUT_XX
DD	gC m-2 d-1	SE from 40 daily RECO_NT_VUT_XX
WW	gC m-2 d-1	SE from 40 weekly RECO_NT_VUT_XX
MM	gC m-2 d-1	SE from 40 monthly RECO_NT_VUT_XX
YY	gC m-2 y-1	SE from 40 yearly RECO_NT_VUT_XX
RECO_NT_VUT_XX		Ecosystem Respiration, from Nighttime partitioning method (with XX = 05, 16, 25, 50, 75, 84, 95)

HH	µmolCO2 m-2 s-1	
DD	gC m-2 d-1	calculated from half-hourly data
WW-MM	gC m-2 d-1	average from daily data
YY	gC m-2 y-1	sum from daily data
RECO_NT_CUT_REF		Ecosystem Respiration, from Nighttime partitioning method, reference selected from RECO versions using model efficiency (MEF). The MEF analysis is repeated for each time aggregation
HH	µmolCO2 m-2 s-1	
DD	gC m-2 d-1	calculated from half-hourly data
WW-MM	gC m-2 d-1	average from daily data
YY	gC m-2 y-1	sum from daily data
RECO_NT_CUT_USTAR50		Ecosystem Respiration, from Nighttime partitioning method, based on NEE_CUT_USTAR50
HH	µmolCO2 m-2 s-1	
DD	gC m-2 d-1	calculated from half-hourly data
WW-MM	gC m-2 d-1	average from daily data
YY	gC m-2 y-1	sum from daily data
RECO_NT_CUT_MEAN		Ecosystem Respiration, from Nighttime partitioning method, average from RECO versions, each from corresponding NEE_CUT_XX version
HH	µmolCO2 m-2 s-1	average from 40 half-hourly RECO_NT_CUT_XX
DD	gC m-2 d-1	average from 40 daily RECO_NT_CUT_XX
WW	gC m-2 d-1	average from 40 weekly RECO_NT_CUT_XX
MM	gC m-2 d-1	average from 40 monthly RECO_NT_CUT_XX
YY	gC m-2 y-1	average from 40 yearly RECO_NT_CUT_XX
RECO_NT_CUT_SE		Standard Error for Ecosystem Respiration, calculated as (SD(RECO_NT_CUT_XX) / SQRT (40))
HH	µmolCO2 m-2 s-1	SE from 40 half-hourly RECO_NT_CUT_XX
DD	gC m-2 d-1	SE from 40 daily RECO_NT_CUT_XX
WW	gC m-2 d-1	SE from 40 weekly RECO_NT_CUT_XX
MM	gC m-2 d-1	SE from 40 monthly RECO_NT_CUT_XX
YY	gC m-2 y-1	SE from 40 yearly RECO_NT_CUT_XX
RECO_NT_CUT_XX		Ecosystem Respiration, from Nighttime partitioning method (with XX = 05, 16, 25, 50, 75, 84, 95)
HH	µmolCO2 m-2 s-1	
DD	gC m-2 d-1	calculated from half-hourly data
WW-MM	gC m-2 d-1	average from daily data
YY	gC m-2 y-1	sum from daily data
GPP_NT_VUT_REF		Gross Primary Production, from Nighttime partitioning method, reference selected from GPP versions using model efficiency (MEF). The MEF analysis is repeated for each time aggregation
HH	µmolCO2 m-2 s-1	
DD	gC m-2 d-1	calculated from half-hourly data
WW-MM	gC m-2 d-1	average from daily data
YY	gC m-2 y-1	sum from daily data

GPP_NT_VUT_USTAR50		Gross Primary Production, from Nighttime partitioning method, based on NEE_VUT_USTAR50
HH	µmolCO2 m-2 s-1	
DD	gC m-2 d-1	calculated from half-hourly data
WW-MM	gC m-2 d-1	average from daily data
YY	gC m-2 y-1	sum from daily data
GPP_NT_VUT_MEAN		Gross Primary Production, from Nighttime partitioning method, average from GPP versions, each from corresponding NEE_VUT_XX version
HH	µmolCO2 m-2 s-1	average from 40 half-hourly GPP_NT_VUT_XX
DD	gC m-2 d-1	average from 40 daily GPP_NT_VUT_XX
WW	gC m-2 d-1	average from 40 weekly GPP_NT_VUT_XX
MM	gC m-2 d-1	average from 40 monthly GPP_NT_VUT_XX
YY	gC m-2 y-1	average from 40 yearly GPP_NT_VUT_XX
GPP_NT_VUT_SE		Standard Error for Gross Primary Production, calculated as (SD(GPP_NT_VUT_XX) / SQRT (40))
HH	µmolCO2 m-2 s-1	SE from 40 half-hourly GPP_NT_VUT_XX
DD	gC m-2 d-1	SE from 40 daily GPP_NT_VUT_XX
WW	gC m-2 d-1	SE from 40 weekly GPP_NT_VUT_XX
MM	gC m-2 d-1	SE from 40 monthly GPP_NT_VUT_XX
YY	gC m-2 y-1	SE from 40 yearly GPP_NT_VUT_XX
GPP_NT_VUT_XX		Gross Primary Production, from Nighttime partitioning method (with XX = 05, 16, 25, 50, 75, 84, 95)
HH	µmolCO2 m-2 s-1	
DD	gC m-2 d-1	calculated from half-hourly data
WW-MM	gC m-2 d-1	average from daily data
YY	gC m-2 y-1	sum from daily data
GPP_NT_CUT_REF		Gross Primary Production, from Nighttime partitioning method, reference selected from GPP versions using model efficiency (MEF). The MEF analysis is repeated for each time aggregation
HH	µmolCO2 m-2 s-1	
DD	gC m-2 d-1	calculated from half-hourly data
WW-MM	gC m-2 d-1	average from daily data
YY	gC m-2 y-1	sum from daily data
GPP_NT_CUT_USTAR50		Gross Primary Production, from Nighttime partitioning method, based on NEE_CUT_USTAR50
HH	µmolCO2 m-2 s-1	
DD	gC m-2 d-1	calculated from half-hourly data
WW-MM	gC m-2 d-1	average from daily data
YY	gC m-2 y-1	sum from daily data
GPP_NT_CUT_MEAN		Gross Primary Production, from Nighttime partitioning method, average from GPP versions, each from corresponding NEE_CUT_XX version
HH	µmolCO2 m-2 s-1	average from 40 half-hourly GPP_NT_CUT_XX

DD	gC m-2 d-1	average from 40 daily GPP_NT_CUT_XX
WW	gC m-2 d-1	average from 40 weekly GPP_NT_CUT_XX
MM	gC m-2 d-1	average from 40 monthly GPP_NT_CUT_XX
YY	gC m-2 y-1	average from 40 yearly GPP_NT_CUT_XX
GPP_NT_CUT_SE		Standard Error for Gross Primary Production, calculated as (SD(GPP_NT_CUT_XX) / SQRT (40))
HH	µmolCO2 m-2 s-1	SE from 40 half-hourly GPP_NT_CUT_XX
DD	gC m-2 d-1	SE from 40 daily GPP_NT_CUT_XX
WW	gC m-2 d-1	SE from 40 weekly GPP_NT_CUT_XX
MM	gC m-2 d-1	SE from 40 monthly GPP_NT_CUT_XX
YY	gC m-2 y-1	SE from 40 yearly GPP_NT_CUT_XX
GPP_NT_CUT_XX		Gross Primary Production, from Nighttime partitioning method (with XX = 05, 16, 25, 50, 75, 84, 95)
HH	µmolCO2 m-2 s-1	
DD	gC m-2 d-1	calculated from half-hourly data
WW-MM	gC m-2 d-1	average from daily data
YY	gC m-2 y-1	sum from daily data
DAYTIME		
RECO_DT_VUT_REF		Ecosystem Respiration, from Daytime partitioning method, reference selected from RECO versions using model efficiency (MEF). The MEF analysis is repeated for each time aggregation
HH	µmolCO2 m-2 s-1	
DD	gC m-2 d-1	calculated from half-hourly data
WW-MM	gC m-2 d-1	average from daily data
YY	gC m-2 y-1	sum from daily data
RECO_DT_VUT_USTAR50		Ecosystem Respiration, from Daytime partitioning method, based on NEE_VUT_USTAR50
HH	µmolCO2 m-2 s-1	
DD	gC m-2 d-1	calculated from half-hourly data
WW-MM	gC m-2 d-1	average from daily data
YY	gC m-2 y-1	sum from daily data
RECO_DT_VUT_MEAN		Ecosystem Respiration, from Daytime partitioning method, average from RECO versions, each from corresponding NEE_VUT_XX version
HH	µmolCO2 m-2 s-1	average from 40 half-hourly RECO_DT_VUT_XX
DD	gC m-2 d-1	average from 40 daily RECO_DT_VUT_XX
WW	gC m-2 d-1	average from 40 weekly RECO_DT_VUT_XX
MM	gC m-2 d-1	average from 40 monthly RECO_DT_VUT_XX
YY	gC m-2 y-1	average from 40 yearly RECO_DT_VUT_XX
RECO_DT_VUT_SE		Standard Error for Ecosystem Respiration, calculated as (SD(RECO_DT_VUT_XX) / SQRT (40))
HH	µmolCO2 m-2 s-1	SE from 40 half-hourly RECO_DT_VUT_XX
DD	gC m-2 d-1	SE from 40 daily RECO_DT_VUT_XX

WW	gC m-2 d-1	SE from 40 weekly RECO_DT_VUT_XX
MM	gC m-2 d-1	SE from 40 monthly RECO_DT_VUT_XX
YY	gC m-2 y-1	SE from 40 yearly RECO_DT_VUT_XX
RECO_DT_VUT_XX		Ecosystem Respiration, from Daytime partitioning method (with XX = 05, 16, 25, 50, 75, 84, 95)
HH	µmolCO2 m-2 s-1	
DD	gC m-2 d-1	calculated from half-hourly data
WW-MM	gC m-2 d-1	average from daily data
YY	gC m-2 y-1	sum from daily data
RECO_DT_CUT_REF		Ecosystem Respiration, from Daytime partitioning method, reference selected from RECO versions using model efficiency (MEF). The MEF analysis is repeated for each time aggregation
HH	µmolCO2 m-2 s-1	
DD	gC m-2 d-1	calculated from half-hourly data
WW-MM	gC m-2 d-1	average from daily data
YY	gC m-2 y-1	sum from daily data
RECO_DT_CUT_USTAR50		Ecosystem Respiration, from Daytime partitioning method, based on NEE_CUT_USTAR50
HH	µmolCO2 m-2 s-1	
DD	gC m-2 d-1	calculated from half-hourly data
WW-MM	gC m-2 d-1	average from daily data
YY	gC m-2 y-1	sum from daily data
RECO_DT_CUT_MEAN		Ecosystem Respiration, from Daytime partitioning method, average from RECO versions, each from corresponding NEE_CUT_XX version
HH	µmolCO2 m-2 s-1	average from 40 half-hourly RECO_DT_CUT_XX
DD	gC m-2 d-1	average from 40 daily RECO_DT_CUT_XX
WW	gC m-2 d-1	average from 40 weekly RECO_DT_CUT_XX
MM	gC m-2 d-1	average from 40 monthly RECO_DT_CUT_XX
YY	gC m-2 y-1	average from 40 yearly RECO_DT_CUT_XX
RECO_DT_CUT_SE		Standard Error for Ecosystem Respiration, calculated as (SD(RECO_DT_CUT_XX) / SQRT (40))
HH	µmolCO2 m-2 s-1	SE from 40 half-hourly RECO_DT_CUT_XX
DD	gC m-2 d-1	SE from 40 daily RECO_DT_CUT_XX
WW	gC m-2 d-1	SE from 40 weekly RECO_DT_CUT_XX
MM	gC m-2 d-1	SE from 40 monthly RECO_DT_CUT_XX
YY	gC m-2 y-1	SE from 40 yearly RECO_DT_CUT_XX
RECO_DT_CUT_XX		Ecosystem Respiration, from Daytime partitioning method (with XX = 05, 16, 25, 50, 75, 84, 95)
HH	µmolCO2 m-2 s-1	
DD	gC m-2 d-1	calculated from half-hourly data
WW-MM	gC m-2 d-1	average from daily data
YY	gC m-2 y-1	sum from daily data

GPP_DT_VUT_REF		Gross Primary Production, from Daytime partitioning method, reference selected from GPP versions using model efficiency (MEF). The MEF analysis is repeated for each time aggregation
HH	µmolCO2 m-2 s-1	
DD	gC m-2 d-1	calculated from half-hourly data
WW-MM	gC m-2 d-1	average from daily data
YY	gC m-2 y-1	sum from daily data
GPP_DT_VUT_USTAR50		Gross Primary Production, from Daytime partitioning method, based on NEE_VUT_USTAR50
HH	µmolCO2 m-2 s-1	
DD	gC m-2 d-1	calculated from half-hourly data
WW-MM	gC m-2 d-1	average from daily data
YY	gC m-2 y-1	sum from daily data
GPP_DT_VUT_MEAN		Gross Primary Production, from Daytime partitioning method, average from GPP versions, each from corresponding NEE_VUT_XX version
HH	µmolCO2 m-2 s-1	average from 40 half-hourly GPP_DT_VUT_XX
DD	gC m-2 d-1	average from 40 daily GPP_DT_VUT_XX
WW	gC m-2 d-1	average from 40 weekly GPP_DT_VUT_XX
MM	gC m-2 d-1	average from 40 monthly GPP_DT_VUT_XX
YY	gC m-2 y-1	average from 40 yearly GPP_DT_VUT_XX
GPP_DT_VUT_SE		Standard Error for Gross Primary Production, calculated as (SD(GPP_DT_VUT_XX) / SQRT (40))
HH	µmolCO2 m-2 s-1	SE from 40 half-hourly GPP_DT_VUT_XX
DD	gC m-2 d-1	SE from 40 daily GPP_DT_VUT_XX
WW	gC m-2 d-1	SE from 40 weekly GPP_DT_VUT_XX
MM	gC m-2 d-1	SE from 40 monthly GPP_DT_VUT_XX
YY	gC m-2 y-1	SE from 40 yearly GPP_DT_VUT_XX
GPP_DT_VUT_XX		Gross Primary Production, from Daytime partitioning method (with XX = 05, 16, 25, 50, 75, 84, 95)
HH	µmolCO2 m-2 s-1	
DD	gC m-2 d-1	calculated from half-hourly data
WW-MM	gC m-2 d-1	average from daily data
YY	gC m-2 y-1	sum from daily data
GPP_DT_CUT_REF		Gross Primary Production, from Daytime partitioning method, reference selected from GPP versions using model efficiency (MEF). The MEF analysis is repeated for each time aggregation
HH	µmolCO2 m-2 s-1	
DD	gC m-2 d-1	calculated from half-hourly data
WW-MM	gC m-2 d-1	average from daily data
YY	gC m-2 y-1	sum from daily data
GPP_DT_CUT_USTAR50		Gross Primary Production, from Daytime partitioning method, based on NEE_CUT_USTAR50

HH	µmolCO2 m-2 s-1	
DD	gC m-2 d-1	calculated from half-hourly data
WW-MM	gC m-2 d-1	average from daily data
YY	gC m-2 y-1	sum from daily data
GPP_DT_CUT_MEAN		Gross Primary Production, from Daytime partitioning method, average from GPP versions, each from corresponding NEE_CUT_XX version
HH	µmolCO2 m-2 s-1	average from 40 half-hourly GPP_DT_CUT_XX
DD	gC m-2 d-1	average from 40 daily GPP_DT_CUT_XX
WW	gC m-2 d-1	average from 40 weekly GPP_DT_CUT_XX
MM	gC m-2 d-1	average from 40 monthly GPP_DT_CUT_XX
YY	gC m-2 y-1	average from 40 yearly GPP_DT_CUT_XX
GPP_DT_CUT_SE		Standard Error for Gross Primary Production, calculated as (SD(GPP_DT_CUT_XX) / SQRT (40))
HH	µmolCO2 m-2 s-1	SE from 40 half-hourly GPP_DT_CUT_XX
DD	gC m-2 d-1	SE from 40 daily GPP_DT_CUT_XX
WW	gC m-2 d-1	SE from 40 weekly GPP_DT_CUT_XX
MM	gC m-2 d-1	SE from 40 monthly GPP_DT_CUT_XX
YY	gC m-2 y-1	SE from 40 yearly GPP_DT_CUT_XX
GPP_DT_CUT_XX		Gross Primary Production, from Daytime partitioning method (with XX = 05, 16, 25, 50, 75, 84, 95)
HH	µmolCO2 m-2 s-1	
DD	gC m-2 d-1	calculated from half-hourly data
WW-MM	gC m-2 d-1	average from daily data
YY	gC m-2 y-1	sum from daily data
SUNDOWN		
RECO_SR		Ecosystem Respiration, from Sundown Respiration partitioning method
HH	µmolCO2 m-2 s-1	
DD	gC m-2 d-1	calculated from half-hourly data
WW-MM	gC m-2 d-1	average from daily data
YY	gC m-2 y-1	sum from daily data
RECO_SR_N		Fraction between 0-1, indicating the percentage of data avaiable in the averaging period to parametrize the respiration model
HH		not available
DD-YY	nondimensional	percentage of data available