

# Variable-list for CLIMBECO COURSE

## List of Variables included in the files

\* Variable names in *red* are only included in datafiles containing *daily values*.

<b>TIMESTAMP</b>	--- > ISO timestamp – short format
TIMESTAMP_START	--- > ISO timestamp start of averaging period – short format
TIMESTAMP_END	--- > ISO timestamp end of averaging period – short format
TA_F	--- > Air temperature, consolidated from TA_F_MDS and TA_ERA
<b>TA_F_NIGHT</b>	--- > Average nighttime TA_F
<b>TA_F_DAY</b>	--- > Average daytime TA_F
SW_IN_F	--- > Shortwave radiation, incoming consolidated from SW_IN_F_MDS and SW_IN_ERA (negative values set to zero)
LW_IN_JSB_F	--- > Longwave radiation, incoming, consolidated from LW_IN_JSB and LW_IN_JSB_ERA
VPD_F	--- > Vapor Pressure Deficit consolidated from VPD_F_MDS and VPD_ERA
PA_F	--- > Atmospheric pressure consolidated from PA and PA_ERA
P_F	--- > Precipitation consolidated from P and P_ERA
P_F_QC	--- > Quality flag for P_F
WS_F	--- > Wind speed, consolidated from WS and WS_ERA
CO2_F_MDS	--- > CO2 mole fraction, gap-filled with MDS
TS_F_MDS_#	--- > Soil temperature, gap-filled with MDS (numeric index “#” increases with the depth, 1 is shallowest)
SWC_F_MDS_#	--- > Soil water content, gap-filled with MDS (numeric index “#” increases with the depth, 1 is shallowest)
SWC_F_MDS_#_QC	--- > Quality flag for SWC_F_MDS_#
G_F_MDS	--- > Soil heat flux
LE_CORR	--- > Latent heat flux, corrected LE_F_MDS by energy balance closure correction factor
LE_CORR_JOINTUNC	--- > Joint uncertainty estimation for LE
H_CORR	--- > Sensible heat flux, corrected H_F_MDS by energy balance closure correction factor
H_CORR_JOINTUNC	--- > Joint uncertainty estimation for H
<b>NIGHT_RANDUNC_N</b>	--- > Number of half hours classified as nighttime and used to calculate the aggregated random uncertainty
<b>DAY_RANDUNC_N</b>	--- > Number of half hours classified as daytime and used to calculate the aggregated random uncertainty
GPP_DT_VUT_MEAN	--- > Gross Primary Production, from Daytime partitioning method, average from GPP versions, each from corresponding NEE_VUT_XX version
GPP_DT_VUT_SE	--- > Standard Error for Gross Primary Production, calculated as (SD(GPP_DT_VUT_XX) / SQRT(40))
GPP_NT_VUT_MEAN	--- > Gross Primary Production, from Nighttime partitioning method, average from GPP versions, each from corresponding NEE_VUT_XX version.

GPP_NT_VUT_SE	--- > Standard Error for Gross Primary Production, calculated as $(SD(GPP\_NT\_VUT\_XX) / \sqrt{40})$
RECO_DT_VUT_MEAN	--- > Ecosystem Respiration, from Daytime partitioning method, average from RECO versions, each from corresponding NEE_VUT_XX version.
RECO_DT_VUT_SE	--- > Standard Error for Ecosystem Respiration, calculated as $(SD(RECO\_DT\_VUT\_XX) / \sqrt{40})$ .
RECO_NT_VUT_MEAN	--- > Ecosystem Respiration, from Nighttime partitioning method, average from RECO versions, each from corresponding NEE_VUT_XX version.
RECO_NT_VUT_SE	--- > Standard Error for Ecosystem Respiration, calculated as $(SD(RECO\_NT\_VUT\_XX) / \sqrt{40})$ .
NEE_VUT_USTAR50	--- > Net Ecosystem Exchange, using Variable Ustar Threshold (VUT) for each year, from 50 percentile of USTAR threshold.
NEE_VUT_USTAR50_QC	--- > Quality flag for NEE_VUT_USTAR50
NEE_VUT_MEAN	--- > Net Ecosystem Exchange, using Variable Ustar Threshold (VUT) for each year, average from 40 NEE_VUT_XX versions.
NEE_VUT_MEAN_QC	--- > Quality flag for NEE_VUT_MEAN, fraction between 0-1 indicating percentage of good quality data.
NEE_VUT_SE	--- > Standard Error for NEE_VUT, calculated as $SD(NEE\_VUT\_XX) / \sqrt{40}$ .
NEE_VUT_REF_NIGHT	--- > Average nighttime NEE, from NEE_VUT_REF
NEE_VUT_REF_NIGHT_SD	--- > Standard Deviation of the nighttime NEE, from the NEE_VUT_REF.
NEE_VUT_REF_NIGHT_QC	--- > Quality flag for NEE_VUT_REF_NIGHT.
NEE_VUT_REF_DAY	--- > Average daytime NEE, from NEE_VUT_REF.
NEE_VUT_REF_DAY_SD	--- > Standard Deviation of the daytime NEE, from the NEE_VUT_REF.
NEE_VUT_REF_DAY_QC	--- > Quality flag for NEE_VUT_REF_DAY.

Link to FLUXNET website, where variable name abbreviations are explained:

<https://fluxnet.fluxdata.org/data/fluxnet2015-dataset/fullset-data-product/>

### Notes for HH-values (half-hourly)

**Anklam** does not include the following column-names:

TA\_F\_NIGHT  
TA\_F\_DAY  
TS\_F\_MDS\_4  
TS\_F\_MDS\_5  
TS\_F\_MDS\_6  
TS\_F\_MDS\_7  
SWC\_F\_MDS\_1  
SWC\_F\_MDS\_2  
SWC\_F\_MDS\_3  
SWC\_F\_MDS\_4  
SWC\_F\_MDS\_5  
SWC\_F\_MDS\_6  
SWC\_F\_MDS\_7  
SWC\_F\_MDS\_1\_QC  
SWC\_F\_MDS\_2\_QC  
SWC\_F\_MDS\_3\_QC  
SWC\_F\_MDS\_4\_QC  
SWC\_F\_MDS\_5\_QC  
SWC\_F\_MDS\_6\_QC  
SWC\_F\_MDS\_7\_QC  
NIGHT\_RANDUNC\_N  
DAY\_RANDUNC\_N  
NEE\_VUT\_REF\_NIGHT  
NEE\_VUT\_REF\_NIGHT\_SD  
NEE\_VUT\_REF\_NIGHT\_QC  
NEE\_VUT\_REF\_DAY  
NEE\_VUT\_REF\_DAY\_SD  
NEE\_VUT\_REF\_DAY\_QC

TIME is expressed in 2 columns as: “TIMESTAMP\_START” & “TIMESTAMP\_END”

**Gebesee** does not include the following column-names:

TA\_F\_NIGHT  
TA\_F\_DAY  
TS\_F\_MDS\_7  
SWC\_F\_MDS\_5  
SWC\_F\_MDS\_6  
SWC\_F\_MDS\_7  
SWC\_F\_MDS\_5\_QC  
SWC\_F\_MDS\_6\_QC  
SWC\_F\_MDS\_7\_QC  
NIGHT\_RANDUNC\_N  
DAY\_RANDUNC\_N  
NEE\_VUT\_REF\_NIGHT  
NEE\_VUT\_REF\_NIGHT\_SD  
NEE\_VUT\_REF\_NIGHT\_QC  
NEE\_VUT\_REF\_DAY

NEE\_VUT\_REF\_DAY\_SD  
NEE\_VUT\_REF\_DAY\_QC

TIME is expressed in 2 columns as: “TIMESTAMP\_START” & “TIMESTAMP\_END”

**Grillenbug** does not include the following column-names:

TA\_F\_NIGHT  
TA\_F\_DAY  
TS\_F\_MDS\_6  
TS\_F\_MDS\_7  
SWC\_F\_MDS\_2  
SWC\_F\_MDS\_3  
SWC\_F\_MDS\_4  
SWC\_F\_MDS\_5  
SWC\_F\_MDS\_6  
SWC\_F\_MDS\_7  
SWC\_F\_MDS\_2\_QC  
SWC\_F\_MDS\_3\_QC  
SWC\_F\_MDS\_4\_QC  
SWC\_F\_MDS\_5\_QC  
SWC\_F\_MDS\_6\_QC  
SWC\_F\_MDS\_7\_QC  
NIGHT\_RANDUNC\_N  
DAY\_RANDUNC\_N  
NEE\_VUT\_REF\_NIGHT  
NEE\_VUT\_REF\_NIGHT\_SD  
NEE\_VUT\_REF\_NIGHT\_QC  
NEE\_VUT\_REF\_DAY  
NEE\_VUT\_REF\_DAY\_SD  
NEE\_VUT\_REF\_DAY\_QC

TIME is expressed in 2 columns as: “TIMESTAMP\_START” & “TIMESTAMP\_END”

**Hainich** does not include the following column-names:

TA\_F\_NIGHT  
TA\_F\_DAY  
TS\_F\_MDS\_6  
TS\_F\_MDS\_7  
SWC\_F\_MDS\_4  
SWC\_F\_MDS\_5  
SWC\_F\_MDS\_6  
SWC\_F\_MDS\_7  
SWC\_F\_MDS\_4\_QC  
SWC\_F\_MDS\_5\_QC  
SWC\_F\_MDS\_6\_QC  
SWC\_F\_MDS\_7\_QC  
NIGHT\_RANDUNC\_N  
DAY\_RANDUNC\_N

NEE\_VUT\_REF\_NIGHT  
NEE\_VUT\_REF\_NIGHT\_SD  
NEE\_VUT\_REF\_NIGHT\_QC  
NEE\_VUT\_REF\_DAY  
NEE\_VUT\_REF\_DAY\_SD  
NEE\_VUT\_REF\_DAY\_QC

TIME is expressed in 2 columns as: “TIMESTAMP\_START” & “TIMESTAMP\_END”

**Hohes Holz** does not include the following column-names:

TA\_F\_NIGHT  
TA\_F\_DAY  
TS\_F\_MDS\_4  
TS\_F\_MDS\_5  
TS\_F\_MDS\_6  
TS\_F\_MDS\_7  
SWC\_F\_MDS\_7  
SWC\_F\_MDS\_7\_QC  
NIGHT\_RANDUNC\_N  
DAY\_RANDUNC\_N  
NEE\_VUT\_REF\_NIGHT  
NEE\_VUT\_REF\_NIGHT\_SD  
NEE\_VUT\_REF\_NIGHT\_QC  
NEE\_VUT\_REF\_DAY  
NEE\_VUT\_REF\_DAY\_SD  
NEE\_VUT\_REF\_DAY\_QC

TIME is expressed in 2 columns as: “TIMESTAMP\_START” & “TIMESTAMP\_END”

**Huetelmoor** does not include the following column-names:

TA\_F\_NIGHT  
TA\_F\_DAY  
TS\_F\_MDS\_4  
TS\_F\_MDS\_5  
TS\_F\_MDS\_6  
TS\_F\_MDS\_7  
SWC\_F\_MDS\_1  
SWC\_F\_MDS\_2  
SWC\_F\_MDS\_3  
SWC\_F\_MDS\_4  
SWC\_F\_MDS\_5  
SWC\_F\_MDS\_6  
SWC\_F\_MDS\_7  
SWC\_F\_MDS\_1\_QC  
SWC\_F\_MDS\_2\_QC  
SWC\_F\_MDS\_3\_QC  
SWC\_F\_MDS\_4\_QC  
SWC\_F\_MDS\_5\_QC

SWC\_F\_MDS\_6\_QC  
SWC\_F\_MDS\_7\_QC  
NIGHT\_RANDUNC\_N  
DAY\_RANDUNC\_N  
NEE\_VUT\_REF\_NIGHT  
NEE\_VUT\_REF\_NIGHT\_SD  
NEE\_VUT\_REF\_NIGHT\_QC  
NEE\_VUT\_REF\_DAY  
NEE\_VUT\_REF\_DAY\_SD  
NEE\_VUT\_REF\_DAY\_QC

TIME is expressed in 2 columns as: "TIMESTAMP\_START" & "TIMESTAMP\_END"

**Rollesbroich** does not include the following column-names:

TA\_F\_NIGHT  
TA\_F\_DAY  
TS\_F\_MDS\_4  
TS\_F\_MDS\_5  
TS\_F\_MDS\_6  
TS\_F\_MDS\_7  
SWC\_F\_MDS\_2  
SWC\_F\_MDS\_3  
SWC\_F\_MDS\_4  
SWC\_F\_MDS\_5  
SWC\_F\_MDS\_6  
SWC\_F\_MDS\_7  
SWC\_F\_MDS\_2\_QC  
SWC\_F\_MDS\_3\_QC  
SWC\_F\_MDS\_4\_QC  
SWC\_F\_MDS\_5\_QC  
SWC\_F\_MDS\_6\_QC  
SWC\_F\_MDS\_7\_QC  
NIGHT\_RANDUNC\_N  
DAY\_RANDUNC\_N  
NEE\_VUT\_REF\_NIGHT  
NEE\_VUT\_REF\_NIGHT\_SD  
NEE\_VUT\_REF\_NIGHT\_QC  
NEE\_VUT\_REF\_DAY  
NEE\_VUT\_REF\_DAY\_SD  
NEE\_VUT\_REF\_DAY\_QC

TIME is expressed in 2 columns as: "TIMESTAMP\_START" & "TIMESTAMP\_END"

**Sellhausen Juelich** does not include the following column-names:

TA\_F\_NIGHT  
TA\_F\_DAY  
TS\_F\_MDS\_4  
TS\_F\_MDS\_5  
TS\_F\_MDS\_6  
TS\_F\_MDS\_7  
SWC\_F\_MDS\_2  
SWC\_F\_MDS\_3  
SWC\_F\_MDS\_4  
SWC\_F\_MDS\_5  
SWC\_F\_MDS\_6  
SWC\_F\_MDS\_7  
SWC\_F\_MDS\_2\_QC  
SWC\_F\_MDS\_3\_QC  
SWC\_F\_MDS\_4\_QC  
SWC\_F\_MDS\_5\_QC  
SWC\_F\_MDS\_6\_QC  
SWC\_F\_MDS\_7\_QC  
NIGHT\_RANDUNC\_N  
DAY\_RANDUNC\_N  
NEE\_VUT\_REF\_NIGHT  
NEE\_VUT\_REF\_NIGHT\_SD  
NEE\_VUT\_REF\_NIGHT\_QC  
NEE\_VUT\_REF\_DAY  
NEE\_VUT\_REF\_DAY\_SD  
NEE\_VUT\_REF\_DAY\_QC

TIME is expressed in 2 columns as: “TIMESTAMP\_START” & “TIMESTAMP\_END”

**Soroe** does not include the following column-names:

TA\_F\_NIGHT  
TA\_F\_DAY  
NIGHT\_RANDUNC\_N  
DAY\_RANDUNC\_N  
NEE\_VUT\_REF\_NIGHT  
NEE\_VUT\_REF\_NIGHT\_SD  
NEE\_VUT\_REF\_NIGHT\_QC  
NEE\_VUT\_REF\_DAY  
NEE\_VUT\_REF\_DAY\_SD  
NEE\_VUT\_REF\_DAY\_QC

TIME is expressed in 2 columns as: “TIMESTAMP\_START” & “TIMESTAMP\_END”

**Lettosuo** does not include the following column-names:

TA\_F\_NIGHT  
TA\_F\_DAY  
TS\_F\_MDS\_5  
TS\_F\_MDS\_6  
TS\_F\_MDS\_7  
SWC\_F\_MDS\_1  
SWC\_F\_MDS\_2  
SWC\_F\_MDS\_3  
SWC\_F\_MDS\_4  
SWC\_F\_MDS\_5  
SWC\_F\_MDS\_6  
SWC\_F\_MDS\_7  
SWC\_F\_MDS\_1\_QC  
SWC\_F\_MDS\_2\_QC  
SWC\_F\_MDS\_3\_QC  
SWC\_F\_MDS\_4\_QC  
SWC\_F\_MDS\_5\_QC  
SWC\_F\_MDS\_6\_QC  
SWC\_F\_MDS\_7\_QC  
NIGHT\_RANDUNC\_N  
DAY\_RANDUNC\_N  
NEE\_VUT\_REF\_NIGHT  
NEE\_VUT\_REF\_NIGHT\_SD  
NEE\_VUT\_REF\_NIGHT\_QC  
NEE\_VUT\_REF\_DAY  
NEE\_VUT\_REF\_DAY\_SD  
NEE\_VUT\_REF\_DAY\_QC

TIME is expressed in 2 columns as: “TIMESTAMP\_START” & “TIMESTAMP\_END”

**Siikaneva** does not include the following column-names:

TA\_F\_NIGHT  
TA\_F\_DAY  
TS\_F\_MDS\_7  
SWC\_F\_MDS\_5  
SWC\_F\_MDS\_6  
SWC\_F\_MDS\_7  
SWC\_F\_MDS\_5\_QC  
SWC\_F\_MDS\_6\_QC  
SWC\_F\_MDS\_7\_QC  
NIGHT\_RANDUNC\_N  
DAY\_RANDUNC\_N  
NEE\_VUT\_REF\_NIGHT  
NEE\_VUT\_REF\_NIGHT\_SD  
NEE\_VUT\_REF\_NIGHT\_QC  
NEE\_VUT\_REF\_DAY  
NEE\_VUT\_REF\_DAY\_SD  
NEE\_VUT\_REF\_DAY\_QC



TIME is expressed in 2 columns as: “TIMESTAMP\_START” & “TIMESTAMP\_END”

**Loobos** does not include the following column-names:

TA\_F\_NIGHT  
TA\_F\_DAY  
TS\_F\_MDS\_4  
TS\_F\_MDS\_5  
TS\_F\_MDS\_6  
TS\_F\_MDS\_7  
SWC\_F\_MDS\_4  
SWC\_F\_MDS\_5  
SWC\_F\_MDS\_6  
SWC\_F\_MDS\_7  
SWC\_F\_MDS\_4\_QC  
SWC\_F\_MDS\_5\_QC  
SWC\_F\_MDS\_6\_QC  
SWC\_F\_MDS\_7\_QC  
NIGHT\_RANDUNC\_N  
DAY\_RANDUNC\_N  
NEE\_VUT\_REF\_NIGHT  
NEE\_VUT\_REF\_NIGHT\_SD  
NEE\_VUT\_REF\_NIGHT\_QC  
NEE\_VUT\_REF\_DAY  
NEE\_VUT\_REF\_DAY\_SD  
NEE\_VUT\_REF\_DAY\_QC

TIME is expressed in 2 columns as: “TIMESTAMP\_START” & “TIMESTAMP\_END”

**Degerö** does not include the following column-names:

TA\_F\_NIGHT  
TA\_F\_DAY  
TS\_F\_MDS\_7  
SWC\_F\_MDS\_2  
SWC\_F\_MDS\_3  
SWC\_F\_MDS\_4  
SWC\_F\_MDS\_5  
SWC\_F\_MDS\_6  
SWC\_F\_MDS\_7  
SWC\_F\_MDS\_2\_QC  
SWC\_F\_MDS\_3\_QC  
SWC\_F\_MDS\_4\_QC  
SWC\_F\_MDS\_5\_QC  
SWC\_F\_MDS\_6\_QC  
SWC\_F\_MDS\_7\_QC  
NIGHT\_RANDUNC\_N  
DAY\_RANDUNC\_N  
NEE\_VUT\_REF\_NIGHT  
NEE\_VUT\_REF\_NIGHT\_SD

NEE\_VUT\_REF\_NIGHT\_QC  
NEE\_VUT\_REF\_DAY  
NEE\_VUT\_REF\_DAY\_SD  
NEE\_VUT\_REF\_DAY\_QC

TIME is expressed in 2 columns as: “TIMESTAMP\_START” & “TIMESTAMP\_END”

**Hyltemossa** does not include the following column-names:

TA\_F\_NIGHT  
TA\_F\_DAY  
TS\_F\_MDS\_6  
TS\_F\_MDS\_7  
SWC\_F\_MDS\_6  
SWC\_F\_MDS\_7  
SWC\_F\_MDS\_6\_QC  
SWC\_F\_MDS\_7\_QC  
NIGHT\_RANDUNC\_N  
DAY\_RANDUNC\_N  
NEE\_VUT\_REF\_NIGHT  
NEE\_VUT\_REF\_NIGHT\_SD  
NEE\_VUT\_REF\_NIGHT\_QC  
NEE\_VUT\_REF\_DAY  
NEE\_VUT\_REF\_DAY\_SD  
NEE\_VUT\_REF\_DAY\_QC

TIME is expressed in 2 columns as: “TIMESTAMP\_START” & “TIMESTAMP\_END”

**Lanna** does not include the following column-names:

TA\_F\_NIGHT  
TA\_F\_DAY  
TS\_F\_MDS\_6  
TS\_F\_MDS\_7  
SWC\_F\_MDS\_6  
SWC\_F\_MDS\_7  
SWC\_F\_MDS\_6\_QC  
SWC\_F\_MDS\_7\_QC  
NIGHT\_RANDUNC\_N  
DAY\_RANDUNC\_N  
NEE\_VUT\_REF\_NIGHT  
NEE\_VUT\_REF\_NIGHT\_SD  
NEE\_VUT\_REF\_NIGHT\_QC  
NEE\_VUT\_REF\_DAY  
NEE\_VUT\_REF\_DAY\_SD  
NEE\_VUT\_REF\_DAY\_QC

TIME is expressed in 2 columns as: “TIMESTAMP\_START” & “TIMESTAMP\_END”

**Norunda** does not include the following column-names:

TA\_F\_NIGHT  
TA\_F\_DAY  
TS\_F\_MDS\_6  
TS\_F\_MDS\_7  
SWC\_F\_MDS\_6  
SWC\_F\_MDS\_7  
SWC\_F\_MDS\_6\_QC  
SWC\_F\_MDS\_7\_QC  
NIGHT\_RANDUNC\_N  
DAY\_RANDUNC\_N  
NEE\_VUT\_REF\_NIGHT  
NEE\_VUT\_REF\_NIGHT\_SD  
NEE\_VUT\_REF\_NIGHT\_QC  
NEE\_VUT\_REF\_DAY  
NEE\_VUT\_REF\_DAY\_SD  
NEE\_VUT\_REF\_DAY\_QC

TIME is expressed in 2 columns as: "TIMESTAMP\_START" & "TIMESTAMP\_END"

**Rosinedal** does not include the following column-names:

TA\_F\_NIGHT  
TA\_F\_DAY  
TS\_F\_MDS\_3  
TS\_F\_MDS\_4  
TS\_F\_MDS\_5  
TS\_F\_MDS\_6  
TS\_F\_MDS\_7  
SWC\_F\_MDS\_3  
SWC\_F\_MDS\_4  
SWC\_F\_MDS\_5  
SWC\_F\_MDS\_6  
SWC\_F\_MDS\_7  
SWC\_F\_MDS\_3\_QC  
SWC\_F\_MDS\_4\_QC  
SWC\_F\_MDS\_5\_QC  
SWC\_F\_MDS\_6\_QC  
SWC\_F\_MDS\_7\_QC  
NIGHT\_RANDUNC\_N  
DAY\_RANDUNC\_N  
NEE\_VUT\_REF\_NIGHT  
NEE\_VUT\_REF\_NIGHT\_SD  
NEE\_VUT\_REF\_NIGHT\_QC  
NEE\_VUT\_REF\_DAY  
NEE\_VUT\_REF\_DAY\_SD  
NEE\_VUT\_REF\_DAY\_QC

TIME is expressed in 2 columns as: "TIMESTAMP\_START" & "TIMESTAMP\_END"

**Svartberget** does not include the following column-names:

TA\_F\_NIGHT  
TA\_F\_DAY  
TS\_F\_MDS\_6  
TS\_F\_MDS\_7  
SWC\_F\_MDS\_6  
SWC\_F\_MDS\_7  
SWC\_F\_MDS\_6\_QC  
SWC\_F\_MDS\_7\_QC  
NIGHT\_RANDUNC\_N  
DAY\_RANDUNC\_N  
NEE\_VUT\_REF\_NIGHT  
NEE\_VUT\_REF\_NIGHT\_SD  
NEE\_VUT\_REF\_NIGHT\_QC  
NEE\_VUT\_REF\_DAY  
NEE\_VUT\_REF\_DAY\_SD  
NEE\_VUT\_REF\_DAY\_QC

TIME is expressed in 2 columns as: "TIMESTAMP\_START" & "TIMESTAMP\_END"

[Notes for DD-values \(daily values\)](#)

**Anklam** does not include the following column-names:

TS\_F\_MDS\_4  
TS\_F\_MDS\_5  
TS\_F\_MDS\_6  
TS\_F\_MDS\_7  
SWC\_F\_MDS\_1  
SWC\_F\_MDS\_2  
SWC\_F\_MDS\_3  
SWC\_F\_MDS\_4  
SWC\_F\_MDS\_5  
SWC\_F\_MDS\_6  
SWC\_F\_MDS\_7  
SWC\_F\_MDS\_1\_QC  
SWC\_F\_MDS\_2\_QC  
SWC\_F\_MDS\_3\_QC  
SWC\_F\_MDS\_4\_QC  
SWC\_F\_MDS\_5\_QC  
SWC\_F\_MDS\_6\_QC  
SWC\_F\_MDS\_7\_QC

TIME is expressed in 1 column: "TIMESTAMP"

**Gebesee** does not include the following column-names:

TS\_F\_MDS\_7  
SWC\_F\_MDS\_5  
SWC\_F\_MDS\_6  
SWC\_F\_MDS\_7  
SWC\_F\_MDS\_5\_QC  
SWC\_F\_MDS\_6\_QC  
SWC\_F\_MDS\_7\_QC

TIME is expressed in 1 column: "TIMESTAMP"

**Grillenburg** does not include the following column-names:

TS\_F\_MDS\_6  
TS\_F\_MDS\_7  
SWC\_F\_MDS\_2  
SWC\_F\_MDS\_3  
SWC\_F\_MDS\_4  
SWC\_F\_MDS\_5  
SWC\_F\_MDS\_6  
SWC\_F\_MDS\_7  
SWC\_F\_MDS\_2\_QC  
SWC\_F\_MDS\_3\_QC  
SWC\_F\_MDS\_4\_QC  
SWC\_F\_MDS\_5\_QC  
SWC\_F\_MDS\_6\_QC  
SWC\_F\_MDS\_7\_QC

TIME is expressed in 1 column: "TIMESTAMP"

**Hainich** does not include the following column-names:

TS\_F\_MDS\_6  
TS\_F\_MDS\_7  
SWC\_F\_MDS\_4  
SWC\_F\_MDS\_5  
SWC\_F\_MDS\_6  
SWC\_F\_MDS\_7  
SWC\_F\_MDS\_4\_QC  
SWC\_F\_MDS\_5\_QC  
SWC\_F\_MDS\_6\_QC  
SWC\_F\_MDS\_7\_QC

TIME is expressed in 1 column: "TIMESTAMP"

**Hohes Holz** does not include the following column-names:

TS\_F\_MDS\_4  
TS\_F\_MDS\_5  
TS\_F\_MDS\_6  
TS\_F\_MDS\_7  
SWC\_F\_MDS\_7  
SWC\_F\_MDS\_7\_QC

TIME is expressed in 1 column: "TIMESTAMP"

**Huetelmoor** does not include the following column-names:

TS\_F\_MDS\_4  
TS\_F\_MDS\_5  
TS\_F\_MDS\_6  
TS\_F\_MDS\_7  
SWC\_F\_MDS\_1  
SWC\_F\_MDS\_2  
SWC\_F\_MDS\_3  
SWC\_F\_MDS\_4  
SWC\_F\_MDS\_5  
SWC\_F\_MDS\_6  
SWC\_F\_MDS\_7  
SWC\_F\_MDS\_1\_QC  
SWC\_F\_MDS\_2\_QC  
SWC\_F\_MDS\_3\_QC  
SWC\_F\_MDS\_4\_QC  
SWC\_F\_MDS\_5\_QC  
SWC\_F\_MDS\_6\_QC  
SWC\_F\_MDS\_7\_QC

TIME is expressed in 1 column: "TIMESTAMP"

**Rollesbroich** does not include the following column-names:

TS\_F\_MDS\_4  
TS\_F\_MDS\_5  
TS\_F\_MDS\_6  
TS\_F\_MDS\_7  
SWC\_F\_MDS\_2  
SWC\_F\_MDS\_3  
SWC\_F\_MDS\_4  
SWC\_F\_MDS\_5  
SWC\_F\_MDS\_6  
SWC\_F\_MDS\_7  
SWC\_F\_MDS\_2\_QC  
SWC\_F\_MDS\_3\_QC  
SWC\_F\_MDS\_4\_QC  
SWC\_F\_MDS\_5\_QC  
SWC\_F\_MDS\_6\_QC

SWC\_F\_MDS\_7\_QC

TIME is expressed in 1 column: "TIMESTAMP"

**Sellhausen Juelich** does not include the following column-names:

TS\_F\_MDS\_4  
TS\_F\_MDS\_5  
TS\_F\_MDS\_6  
TS\_F\_MDS\_7  
SWC\_F\_MDS\_2  
SWC\_F\_MDS\_3  
SWC\_F\_MDS\_4  
SWC\_F\_MDS\_5  
SWC\_F\_MDS\_6  
SWC\_F\_MDS\_7  
SWC\_F\_MDS\_2\_QC  
SWC\_F\_MDS\_3\_QC  
SWC\_F\_MDS\_4\_QC  
SWC\_F\_MDS\_5\_QC  
SWC\_F\_MDS\_6\_QC  
SWC\_F\_MDS\_7\_QC

TIME is expressed in 1 column: "TIMESTAMP"

**Soroe** includes all column-names. Has more SWC- and TS-related columns (TS\_F\_MDS\_6, TS\_F\_MDS\_7, SWC\_F\_MDS\_6, SWC\_F\_MDS\_7, SWC\_F\_MDS\_6\_QC, SWC\_F\_MDS\_7\_QC)

TIME is expressed in 1 column: "TIMESTAMP"

**Lettosuo** does not include the following column-names:

TS\_F\_MDS\_5  
TS\_F\_MDS\_6  
TS\_F\_MDS\_7  
SWC\_F\_MDS\_1  
SWC\_F\_MDS\_2  
SWC\_F\_MDS\_3  
SWC\_F\_MDS\_4  
SWC\_F\_MDS\_5  
SWC\_F\_MDS\_6  
SWC\_F\_MDS\_7  
SWC\_F\_MDS\_1\_QC  
SWC\_F\_MDS\_2\_QC  
SWC\_F\_MDS\_3\_QC  
SWC\_F\_MDS\_4\_QC  
SWC\_F\_MDS\_5\_QC  
SWC\_F\_MDS\_6\_QC

SWC\_F\_MDS\_7\_QC

TIME is expressed in 1 column: "TIMESTAMP"

**Siikaneva** does not include the following column-names:

TS\_F\_MDS\_7

SWC\_F\_MDS\_5

SWC\_F\_MDS\_6

SWC\_F\_MDS\_7

SWC\_F\_MDS\_5\_QC

SWC\_F\_MDS\_6\_QC

SWC\_F\_MDS\_7\_QC

TIME is expressed in 1 column: "TIMESTAMP"

**Loobos** does not include the following column-names:

TS\_F\_MDS\_4

TS\_F\_MDS\_5

TS\_F\_MDS\_6

TS\_F\_MDS\_7

SWC\_F\_MDS\_4

SWC\_F\_MDS\_5

SWC\_F\_MDS\_6

SWC\_F\_MDS\_7

SWC\_F\_MDS\_4\_QC

SWC\_F\_MDS\_5\_QC

SWC\_F\_MDS\_6\_QC

SWC\_F\_MDS\_7\_QC

TIME is expressed in 1 column: "TIMESTAMP"

**Degerö** does not include the following column-names:

TS\_F\_MDS\_7

SWC\_F\_MDS\_2

SWC\_F\_MDS\_3

SWC\_F\_MDS\_4

SWC\_F\_MDS\_5

SWC\_F\_MDS\_6

SWC\_F\_MDS\_7

SWC\_F\_MDS\_2\_QC

SWC\_F\_MDS\_3\_QC

SWC\_F\_MDS\_4\_QC

SWC\_F\_MDS\_5\_QC

SWC\_F\_MDS\_6\_QC

SWC\_F\_MDS\_7\_QC

TIME is expressed in 1 column: "TIMESTAMP"



**Hyltemossa** does not include the following column-names:

TS\_F\_MDS\_6  
TS\_F\_MDS\_7  
SWC\_F\_MDS\_6  
SWC\_F\_MDS\_7  
SWC\_F\_MDS\_6\_QC  
SWC\_F\_MDS\_7\_QC

TIME is expressed in 1 column: "TIMESTAMP"

**Lanna** does not include the following column-names:

TS\_F\_MDS\_6  
TS\_F\_MDS\_7  
SWC\_F\_MDS\_6  
SWC\_F\_MDS\_7  
SWC\_F\_MDS\_6\_QC  
SWC\_F\_MDS\_7\_QC

TIME is expressed in 1 column: "TIMESTAMP"

**Norunda** does not include the following column-names:

TS\_F\_MDS\_6  
TS\_F\_MDS\_7  
SWC\_F\_MDS\_6  
SWC\_F\_MDS\_7  
SWC\_F\_MDS\_6\_QC  
SWC\_F\_MDS\_7\_QC

TIME is expressed in 1 column: "TIMESTAMP"

**Rosinedal** does not include the following column-names:

TS\_F\_MDS\_3  
TS\_F\_MDS\_4  
TS\_F\_MDS\_5  
TS\_F\_MDS\_6  
TS\_F\_MDS\_7  
SWC\_F\_MDS\_3  
SWC\_F\_MDS\_4  
SWC\_F\_MDS\_5  
SWC\_F\_MDS\_6  
SWC\_F\_MDS\_7  
SWC\_F\_MDS\_3\_QC  
SWC\_F\_MDS\_4\_QC  
SWC\_F\_MDS\_5\_QC  
SWC\_F\_MDS\_6\_QC  
SWC\_F\_MDS\_7\_QC

TIME is expressed in 1 column: "TIMESTAMP"

**Svartberget** does not include the following column-names:

TS\_F\_MDS\_6

TS\_F\_MDS\_7

SWC\_F\_MDS\_6

SWC\_F\_MDS\_7

SWC\_F\_MDS\_6\_QC

SWC\_F\_MDS\_7\_QC

TIME is expressed in 1 column: "TIMESTAMP"