

Correspondence table for parameters between ver.1.1 and ver.2.1

| Ver.1.1 | | | | Ver.2.1 | | | |
|---------|-------------------------|-------------|---|-------------|---|-----------|----------------------------------|
| Folder | File | Parameter | Item (Measurement height) [Unit] | Parameter | Item (Measurement height) [Unit] | Parameter | Item (Measurement height) [Unit] |
| Met | FHK_Met_yyyy_ver1.1, | YEAR | Year | Year | Year | | |
| | FHK_Met_d_yyyy_ver1.1, | DAY | Day | DOY | Day of year (1-366) | | |
| | FHK_Met_pre_yyyy_ver1.1 | Hour_Minute | Hour_Minute | Time | HHMM | | |
| | | Sd_402_32 | Global solar radiation (32m) [W m-2] | Rg_32 | Global solar radiation (incoming) (32m) [W m-2] | | |
| | | — | — | Rg_30_Rn | Global solar radiation (incoming) (30m) [W m-2] | | |
| | | Sd_SS1 | Global solar radiation (2m) [W m-2] | TR_1_2 | Transmitted solar radiation (below canopy incoming) (2m) [W m-2] | | |
| | | Sd_SS2 | Global solar radiation (2m) [W m-2] | TR_2_2 | Transmitted solar radiation (below canopy incoming) (2m) [W m-2] | | |
| | | Sd_SS3 | Global solar radiation (2m) [W m-2] | TR_3_2 | Transmitted solar radiation (below canopy incoming) (2m) [W m-2] | | |
| | | Sd_S1 | Global solar radiation (2m) [W m-2] | TR_4_2 | Transmitted solar radiation (below canopy incoming) (2m) [W m-2] | | |
| | | Sd_S2 | Global solar radiation (2m) [W m-2] | TR_5_2 | Transmitted solar radiation (below canopy incoming) (2m) [W m-2] | | |
| | | — | — | TR_1_2_Rn | Transmitted solar radiation (below canopy incoming) (2m) [W m-2] | | |
| | | — | — | TR_2_2_Rn | Transmitted solar radiation (below canopy incoming) (2m) [W m-2] | | |
| | | Rn_Su_32 | Reflected solar radiation (32m) [W m-2] | Rg_out_30 | Global solar radiation (outgoing) (30m) [W m-2] | | |
| | | Rn_Su_SS1 | Reflected solar radiation (2m) [W m-2] | TR_out_1_2 | Transmitted solar radiation (below canopy outgoing) (2m) [W m-2] | | |
| | | Rn_Su_SS2 | Reflected solar radiation (2m) [W m-2] | TR_out_2_2 | Transmitted solar radiation (below canopy outgoing) (2m) [W m-2] | | |
| | | Rn_Ldc_32 | Long wave radiation (32m) [W m-2] | Rgl_30 | Long-wave radiation (incoming) (30m) [W m-2] | | |
| | | Rn_LdcSS1 | Long wave radiation (2m) [W m-2] | TRI_1_2 | Transmitted long-wave radiation (below canopy incoming) (2m) [W m-2] | | |
| | | Rn_LdcSS2 | Long wave radiation (2m) [W m-2] | TRI_2_2 | Transmitted long-wave radiation (below canopy incoming) (2m) [W m-2] | | |
| | | Rn_Luc_32 | Reflected long wave radiation (32m) [W m-2] | Rgl_out_30 | Long-wave radiation (outgoing) (30m) [W m-2] | | |
| | | Rn_LucSS1 | Reflected long wave radiation (2m) [W m-2] | TRI_out_1_2 | Transmitted long-wave radiation (below canopy outgoing) (2m) [W m-2] | | |
| | | Rn_LucSS2 | Reflected long wave radiation (2m) [W m-2] | TRI_out_2_2 | Transmitted long-wave radiation (below canopy outgoing) (2m) [W m-2] | | |
| | | — | — | Rn_30 | Net Radiation (30m) [W m-2] | | |
| | | — | — | TRn_1_2 | Transmitted Net Radiation (below canopy) (2m) [W m-2] | | |
| | | — | — | TRn_2_2 | Transmitted Net Radiation (below canopy) (2m) [W m-2] | | |
| | | Qd_32_Eko | Photosynthetically photon flux density (32m) [umol m-2 s-1] | PPFD_32 | Photosynthetic active photon flux density (32m) [umol m-2 s-1] | | |
| | | — | — | PPFD_32_gf | Photosynthetic active photon flux density gap filled (32m) [umol m-2 s-1] | | |
| | | Qd_SS1 | Photosynthetically photon flux density (2m) [umol m-2 s-1] | TPAR_1_2 | Transmitted PAR (2m) [umol m-2 s-1] | | |
| | | Qd_SS2 | Photosynthetically photon flux density (2m) [umol m-2 s-1] | TPAR_2_2 | Transmitted PAR (2m) [umol m-2 s-1] | | |
| | | Qd_SS3 | Photosynthetically photon flux density (2m) [umol m-2 s-1] | TPAR_3_2 | Transmitted PAR (2m) [umol m-2 s-1] | | |
| | | Qd_S1 | Photosynthetically photon flux density (2m) [umol m-2 s-1] | TPAR_4_2 | Transmitted PAR (2m) [umol m-2 s-1] | | |
| | | Qd_S2 | Photosynthetically photon flux density (2m) [umol m-2 s-1] | TPAR_5_2 | Transmitted PAR (2m) [umol m-2 s-1] | | |
| | | Qu_30 | Reflected photosynthetically photon flux density (30m) [umol m-2 s-1] | RPAR_30 | Reflected PAR (30m) [umol m-2 s-1] | | |
| | | Qu_SS1 | Reflected photosynthetically photon flux density (2m) [umol m-2 s-1] | RPAR_1_2 | Reflected PAR (below canopy outgoing) (2m) [umol m-2 s-1] | | |
| | | Qu_SS2 | Reflected photosynthetically photon flux density (2m) [umol m-2 s-1] | RPAR_2_2 | Reflected PAR (below canopy outgoing) (2m) [umol m-2 s-1] | | |
| | | Qu_SS3 | Reflected photosynthetically photon flux density (2m) [umol m-2 s-1] | RPAR_3_2 | Reflected PAR (below canopy outgoing) (2m) [umol m-2 s-1] | | |
| | | Ta_32 | Air temperature (32m) [degrees C] | Ta_32 | Air temperature (32m) [degrees C] | | |
| | | Ta_27 | Air temperature (27m) [degrees C] | Ta_27 | Air temperature (27m) [degrees C] | | |
| | | Ta_22 | Air temperature (22m) [degrees C] | Ta_22 | Air temperature (22m) [degrees C] | | |
| | | Ta_16 | Air temperature (16m) [degrees C] | Ta_16 | Air temperature (16m) [degrees C] | | |
| | | Ta_10 | Air temperature (10m) [degrees C] | Ta_10 | Air temperature (10m) [degrees C] | | |
| | | Ta_045 | Air temperature (4.5m) [degrees C] | Ta_045 | Air temperature (4.5m) [degrees C] | | |
| | | Ta_02 | Air temperature (2m) [degrees C] | Ta_02 | Air temperature (2m) [degrees C] | | |
| | | Ta_01 | Air temperature (1m) [degrees C] | Ta_01 | Air temperature (1m) [degrees C] | | |
| | | Ta_005 | Air temperature (0.5m) [degrees C] | Ta_005 | Air temperature (0.5m) [degrees C] | | |
| | | — | — | Ta_22_gf | Air temperature gap filled (22m) [degrees C] | | |
| | | RH_32 | Relative humidity (32m) [%] | RH_32 | Relative humidity (32m) [%] | | |
| | | RH_27 | Relative humidity (27m) [%] | RH_27 | Relative humidity (27m) [%] | | |
| | | RH_22 | Relative humidity (22m) [%] | RH_22 | Relative humidity (22m) [%] | | |
| | | RH_16 | Relative humidity (16m) [%] | RH_16 | Relative humidity (16m) [%] | | |
| | | RH_10 | Relative humidity (10m) [%] | RH_10 | Relative humidity (10m) [%] | | |
| | | RH_045 | Relative humidity (4.5m) [%] | RH_045 | Relative humidity (4.5m) [%] | | |
| | | RH_02 | Relative humidity (2m) [%] | RH_02 | Relative humidity (2m) [%] | | |
| | | RH_01 | Relative humidity (1m) [%] | RH_01 | Relative humidity (1m) [%] | | |
| | | RH_005 | Relative humidity (0.5m) [%] | RH_005 | Relative humidity (0.5m) [%] | | |
| | | — | — | VPD_22 | Vapor pressure deficit (22m) [kPa] | | |

| | | | | | |
|---------|---------------------|--|---------------------------------------|-----------|--|
| | | — | — | VPD_22_gf | Vapor pressure deficit gap filled (22m) [kPa] |
| | | Ts_SS1_0 | Soil temperature (0m) [degrees C] | Ts_1_0 | Soil temperature (0m) [degrees C] |
| | | Ts_SS2_0 | Soil temperature (0m) [degrees C] | Ts_2_0 | Soil temperature (0m) [degrees C] |
| | | Ts_SS3_0 | Soil temperature (0m) [degrees C] | Ts_3_0 | Soil temperature (0m) [degrees C] |
| | | Ts_SS1_2 | Soil temperature (-0.02m) [degrees C] | Ts_1_2 | Soil temperature (-0.02m) [degrees C] |
| | | Ts_SS2_2 | Soil temperature (-0.02m) [degrees C] | Ts_2_2 | Soil temperature (-0.02m) [degrees C] |
| | | Ts_SS3_2 | Soil temperature (-0.02m) [degrees C] | Ts_3_2 | Soil temperature (-0.02m) [degrees C] |
| | | Ts_SS1_5 | Soil temperature (-0.05m) [degrees C] | Ts_1_5 | Soil temperature (-0.05m) [degrees C] |
| | | Ts_SS2_5 | Soil temperature (-0.05m) [degrees C] | Ts_2_5 | Soil temperature (-0.05m) [degrees C] |
| | | Ts_SS3_5 | Soil temperature (-0.05m) [degrees C] | Ts_3_5 | Soil temperature (-0.05m) [degrees C] |
| | | Ts_SS1_15 | Soil temperature (-0.15m) [degrees C] | Ts_1_15 | Soil temperature (-0.15m) [degrees C] |
| | | Ts_SS1_30 | Soil temperature (-0.3m) [degrees C] | Ts_1_30 | Soil temperature (-0.3m) [degrees C] |
| | | Ts_SS1_60 | Soil temperature (-0.6m) [degrees C] | Ts_1_60 | Soil temperature (-0.6m) [degrees C] |
| | | Ts_SS1100 | Soil temperature (-1m) [degrees C] | — | — |
| | | SHF_SS1_1 | Soil heat flux (-0.1m) [W m-2] | G_1_1 | Soil heat flux (-0.1m) [W m-2] |
| | | SHF_SS2_1 | Soil heat flux (-0.1m) [W m-2] | G_2_1 | Soil heat flux (-0.1m) [W m-2] |
| | | SHF_SS3_1 | Soil heat flux (-0.1m) [W m-2] | G_3_1 | Soil heat flux (-0.1m) [W m-2] |
| | | SHF_SS1_2 | Soil heat flux (-0.2m) [W m-2] | G_1_2 | Soil heat flux (-0.2m) [W m-2] |
| | | SHF_SS2_2 | Soil heat flux (-0.2m) [W m-2] | G_2_2 | Soil heat flux (-0.2m) [W m-2] |
| | | SHF_SS3_2 | Soil heat flux (-0.2m) [W m-2] | G_3_2 | Soil heat flux (-0.2m) [W m-2] |
| | | SW_SS1_0 | Soil water content (0m) [%] | SWC_1_0 | Soil water content (0m) [%] |
| | | SW_SS2_0 | Soil water content (0m) [%] | SWC_2_0 | Soil water content (0m) [%] |
| | | SW_SS3_0 | Soil water content (0m) [%] | SWC_3_0 | Soil water content (0m) [%] |
| | | SW_SS1_10 | Soil water content (-0.1m) [%] | SWC_1_10 | Soil water content (-0.1m) [%] |
| | | SW_SS2_10 | Soil water content (-0.1m) [%] | SWC_2_10 | Soil water content (-0.1m) [%] |
| | | SW_SS1_20 | Soil water content (-0.2m) [%] | SWC_1_20 | Soil water content (-0.2m) [%] |
| | | SW_SS2_20 | Soil water content (-0.2m) [%] | SWC_2_20 | Soil water content (-0.2m) [%] |
| | | — | — | WD_35 | Wind direction (35m) [Degree] |
| | | Wd_32_D1 | Wind direction (32m) [16 direction] | WD_32 | Wind direction (32m) [16 direction] |
| | | Wd_27_D1 | Wind direction (27m) [16 direction] | WD_27 | Wind direction (27m) [16 direction] |
| | | Wd_22_D1 | Wind direction (22m) [16 direction] | WD_22 | Wind direction (22m) [16 direction] |
| | | Wd_16_D1 | Wind direction (16m) [16 direction] | WD_16 | Wind direction (16m) [16 direction] |
| | | Wd_10_D1 | Wind direction (10m) [16 direction] | WD_10 | Wind direction (10m) [16 direction] |
| | | Wd_045_D1 | Wind direction (4.5m) [16 direction] | WD_045 | Wind direction (4.5m) [16 direction] |
| | | Wd_02_D1 | Wind direction (2m) [16 direction] | WD_02 | Wind direction (2m) [16 direction] |
| | | — | — | WS_35 | Wind speed (35m) [m s-1] |
| | | Ws_32_S | Wind speed (32m) [m s-1] | WS_32 | Wind speed (32m) [m s-1] |
| | | Ws_27_S | Wind speed (27m) [m s-1] | WS_27 | Wind speed (27m) [m s-1] |
| | | Ws_22_S | Wind speed (22m) [m s-1] | WS_22 | Wind speed (22m) [m s-1] |
| | | Ws_16_S | Wind speed (16m) [m s-1] | WS_16 | Wind speed (16m) [m s-1] |
| | | Ws_10_S | Wind speed (10m) [m s-1] | WS_10 | Wind speed (10m) [m s-1] |
| | | Ws_045_S | Wind speed (4.5m) [m s-1] | WS_045 | Wind speed (4.5m) [m s-1] |
| | | Ws_02_S | Wind speed (2m) [m s-1] | WS_02 | Wind speed (2m) [m s-1] |
| | | P | Barometric pressure (1.5m) [hPa] | Pa | Barometric pressure (1.5m) [kPa] |
| | | Rain | Precipitaion (32m) [mm] | PPT | Precipitaion (32m) [mm] |
| | | Snow | Snow depth (2m) [cm] | SNOWD | Snow depth (2m) [cm] |
| | | | | Fc | CO2 flux (35m) [micromol·m-2·s-1] |
| | | | | Sc | CO2 storage in canopy air layer [micromol·m-2·s-1] |
| | | | | NEE | Net ecosystem carbon exchange [micromol·m-2·s-1] |
| | | | | Co | CO2 concentration (35m) [ppm] |
| | | | | H | Sensible heat flux (35m) [W m-2] |
| | | | | LE | Latent heat flux (35m) [W m-2] |
| | | | | Ust | Friction velocity (35m) [m s-1] |
| | | | | TAU | Momentum flux (35m) [m2 s-2] |
| Spectro | MS700_shdw_yyyymmdd | Spectral radiation (downward, 32m) | | — | |
| | MS700_refl_yyyymmdd | Reflected spectral radiation (upward, 30m) | | — | |
| | MS700_surf_yyyymmdd | Transmitted spectral radiation (2m) | | — | |
| | MS700_vi_yyyy | NDVI | | — | |
| | | EVI | | — | |

The period of registered data are from 2006 to 2010 in ver.1.1, and from 2006 to 2012 in ver.2.1.

Spectral data are provided from Phenological Eyes Network (PEN): <http://pen.envr.tsukuba.ac.jp/>