

ICOS ETC DATA PRODUCT DESCRIPTION

Level2 Meteo Half-hourly Data

Data Type Label: ETC L2 Meteo

Data Level: 2

File name structure: ICOSSETC_CC-###_METEO_L2 (with CC-### = ICOS site code, see also the "Update and versions" paragraph below).

Stations: Class 1, Class 2, Associated

Format: csv

Description: half-hourly meteorological data and all the related quality flags and connected variables obtained by aggregating possible different sensors that for their characteristics and positions can be averaged. Data are processed and quality checked by the ICOS ETC starting from the METEOSENS data file (where each single sensor is provided). Data not gap-filled. The code used is available in the ICOS ETC GitHub repository.

Update and versions: released once or twice per year. When released twice per year (only Class1 and 2 stations), the middle-year version (*interim*) is created by appending the new processed data to the last official release. This version is identifiable by the file named ICOSSETC_CC-###_METEO_INTERIM_L2

Variables and units: variable names are composed by the variable code and a numeric index to identify relative height or depth in case of a vertical profile. The information related to sensor model, position and calibration for each variable are available in the metadata. Since each variable can be the result of the aggregation of two or more sensors (average or sum) the standard deviation (identified by the suffix _SD) and the number of sensors used in the calculation of the spatially aggregated value (identified by the suffix _N) are reported when needed.

Variables codes, units and descriptions are available here:
<https://hdl.handle.net/11676/rIIMSsmAoDi2W3W44rGzQI3X>

Metadata: variable codes and units available in the Carbon Portal. Full metadata in the Archive product, including indication of sensors aggregated.