

## ICOS ETC DATA PRODUCT DESCRIPTION

### Level2 Meteo Sensor Half-hourly Data

**Data Type Label:** ETC L2 Meteosens

**Data Level:** 2

**File name structure:** ICOSSETC\_CC-###\_METEOSENS\_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 measured by each single sensor used in the station. Data are processed and quality checked by the ICOS ETC starting from the raw data at higher time resolution (Class 1 and 2 stations). Data not gap-filled. The code used is available in the ICOS ETC GitHub repository. In the Associates stations the data are calculated by the station teams.

**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-###\_METEOSENS\_INTERIM\_L2

**Variables and units:** variable names are composed by the variable code and three numeric indexes or positional qualifiers, used to indicate relative positions of observations at the site (e.g. different points in space, along a vertical profile). The information related to sensor model, position and calibration for each variable are available in the metadata. Being aggregated from data at 1 to 60 seconds resolution (in general), the standard error (identified by the suffix \_SE) and the number of single measurements used in the calculation (identified by the suffix \_N) are reported for each variable and half-hour.

Variables codes, units and descriptions are available here:

<https://hdl.handle.net/11676/rllMSsmAoDi2W3W44rGzQl3X>

**Metadata:** variable codes and units available in the Carbon Portal. Full metadata in the Archive product, including sensor model, position, history.