

## ICOS ETC DATA PRODUCT DESCRIPTION

### Level2 Fluxes Half-hourly Data

**Data Type Label:** ETC L2 Fluxes

**Data Level:** 2

**File name structure:** ICOSSETC\_CC-###\_FLUXES\_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 fluxes along with all the related quality flags and statistics and auxiliary variables (e.g. storage fluxes, footprint estimations, atmospheric parameters) calculated by the ICOS ETC starting from the 10 or 20Hz raw data for the Class1 and Class2 stations. Micrometeorological data are processed using the method described in Vitale et al. 2020 (Biogeosciences). Data not gap-filled and without partitioning and other post-processing. Code available in the ICOS ETC GitHub repository. At each data release, the whole time series is recalculated from its starting date. In the Associates stations the fluxes 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-###\_FLUXES\_INTERIM\_L2.

**Variables and units:** variables codes, units and descriptions are available here:

<https://meta.icos-cp.eu/objects/E0KJJERYMTDbg4PfW26xazhk>

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