\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**TITLE: AtlantECO [WP2] - cflux dataset –** size spectra

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**1.- INTRODUCTION**

This table contains size spectra data derived from the 5th version of the Underwater Vision Profiler (UVP5), for a total of 2.083.352 observations (or size spectra).

**2.- METHODOLOGY USED**

Data were collected from a public database (PANGAEA) which already assembled and cleaned the entire dataset. We then processed those data using R (version 4.1.2).

**3.- DATASET DESCRIPTION**

**Data type:** Absolute values of particle counts for 27 class sizes (#/L)

**Latitude/Longitude format:** WGS84 (-180°/+180°)

**Geographic area covered by the dataset:** Global Ocean

**Depth range covered by the dataset:** From 2.5 to 6017.5 m

**Time period covered by the dataset:** from 2008-06-19 to 2020-11-23

**Dataset format:** comma separated (.CSV file)

**Date of dataset creation:** 2022-09-12

**Raw dataset repository:** ETHZ server

**4.- MAIN VARIABLE DESCRIPTION**

MeasurementTypeID: source of the data (only UVP5)

MeasurementValue: particle counts for 27 size bins.

MeasurementID: Sample\_id which is unique for every UVP5 vertical profile.

**5.- LINKS**

**

**6.- CONTRIBUTORS**

Guidi Lionel – Oceanographic Laboratory of Villefranche-sur-Mer – France - lionel.guidi@imev-mer.fr

Ricour Florian - Oceanographic Laboratory of Villefranche-sur-Mer - France – florian.ricour@uliege.be