

## E1\_bouy\_2015

This is the data file for our offshore buoy. The buoy is located at station E1 which is approximately 20 miles south of Plymouth (50° 02.6'N; 004° 22.5'W). Unfortunately the buoy is currently out of action and we are waiting for a suitable weather window to go out and make repairs. The website for the buoy can be found at: [http://www.westernchannelobservatory.org.uk/buoys\\_E1.php](http://www.westernchannelobservatory.org.uk/buoys_E1.php)

The columns in the file are as follows:

Header	Description
Date	This is the date stamp and is in dd/mm/yyyy
Time	Time stamp, h(h)mmss
Light (PAR)	This is a sensor on the top of the buoy that measures sunlight in a unit of PAR that is $\mu\text{Em}^{-2}\text{s}^{-1}$ . This sensor was only installed on 16th June.
CDOM	Coloured Dissolved Organic Material, this is a fluorescence value indicating the volume of CDOM in the water.
	This column is reserved for our nutrient sensor that was not installed during 2015, therefore the column is currently blank.
DO	Dissolved Oxygen ( $\mu\text{M}$ )
Temp	Seawater temperature ( $^{\circ}\text{C}$ )
Salinity	Salinity of the seawater (PSU)
Turbidity	This is a measure of the clarity of the seawater and is measured in NTU.
Chlorophyll	Chlorophyll a gives an indication of the phytoplankton abundance and is measured using fluorescence and has the units of $\text{mgm}^{-3}$

This data buoy is operated in collaboration with the Met Office and they operate a suit of meteorological sensors and a wave height sensor, unfortunately this equipment did not operate during 2015 although it is hoped that it will be fixed shortly. The data from the PML sensors and the Met Office sensors is usually transmitted once an hour.