

# Metadata

|                                     |  |
|-------------------------------------|--|
| <b>Standardized Instrument Name</b> | WETLabs ECO Triplet sensor   |
| <b>Scheme URI</b>                   | <a href="http://vocab.nerc.ac.uk/collection/L22/current/TOOL0674/2/">http://vocab.nerc.ac.uk/collection/L22/current/TOOL0674/2/</a>  |
| <b>Term URI</b>                     | SDN:L22::TOOL0674  |
| <b>Instrument DOI</b>               |  |
| <b>Instrument Unique ID</b>         | BBFL2WB-1440   |
| <b>ID Type</b>                      | Serial number  |
| <b>Model No.</b>                    | 1440   |
| <b>Instrument Type</b>              | Baseline   |
| <b>Description</b>                  | <p>An ecotriplet is a three-optical-sensor, instrument that may carry any combination of single-wavelength fluorometers or scattering meters. The MBL ecotriplets are deployed on static moorings placed in the MBGL study lakes. The fluorometers can be configured (with typical sensitivities) for chlorophyll (470/695 nm, sensitivity 0.015-0.025 ug/l), FDOM (370/460 nm, sensitivity 0.184 ppb), phycocyanin (630/680 nm, 0.086 ppb), phycoerythrin (520/595 nm, sensitivity 0.086 ppb), The scattering meter can typically measure optical scattering at blue, green or red wavelengths (412, 470, 532, 650, 700 and 880 nm, sensitivity 0.002-0.003 m-1).</p> |
| <b>Manufacturer</b>                 | Wetlabs  |
| <b>Manufacturer type</b>            | Organizational   |
| <b>Notes</b>                        | UM Unique id = 094359  |
| <b>Sensor Details</b>               |  |
| <b>Sensor Details 1</b>             |  |
| <b>Instrument Sensor Name</b>       | ECO Phycocyanin (PC) Fluorometer   |
| <b>Instrument Sensor Serial No.</b> | BBFL2WB-1440   |
| <b>Sensor Range</b>                 | 0-175  |
| <b>Sensor Sensitivity</b>           | 0.086  |
| <b>Sensor Units</b>                 | ppb  |

**Last Calibration Date** 2021-03-05

### Sensor Details 2

**Instrument Sensor Name** ECO Chlorophyll (Chl) Flurometer

**Instrument Sensor Serial No.** BBFL2WB-1440

**Sensor Range** 0-30; 0-50

**Sensor Sensitivity** 0.015; 0.025

**Sensor Units** ug/l

**Last Calibration Date** 2021-03-05

### Sensor Details 3

**Instrument Sensor Name** Scattering Meter

**Instrument Sensor Serial No.** BBFL2WB-1440

**Sensor Range** 0-5; 0-3; 0-5

**Sensor Sensitivity** 0.003; 0.002

**Sensor Units** m-1

**Last Calibration Date** 2021-03-05

## Data and Resources

**URL** <https://canwin-datahub.ad.umanitoba.ca/data/dataset/96757fdb-9840-4373-aea1-50334f060ec7/resource/0c5cb09d-9f43-40ad-a614-de15031573bd/download/bbfl2wb-1440.dev>

**Name** 2016 Ecotriplet 1440 Dev file

**Description** The Dev file is required for conversion of data from ecotriplets. This file was created from the April 27, 2016 calibration and provided by Wetlabs.

**Format**

**Resource Category** scripts

**URL** [https://canwin-datahub.ad.umanitoba.ca/data/dataset/96757fdb-9840-4373-aea1-50334f060ec7/resource/871ff973-6920-406d-bbf1-ec8f509d2407/download/bbfl2wb-1440\\_2019.dev](https://canwin-datahub.ad.umanitoba.ca/data/dataset/96757fdb-9840-4373-aea1-50334f060ec7/resource/871ff973-6920-406d-bbf1-ec8f509d2407/download/bbfl2wb-1440_2019.dev)

**Name** 2019 Ecotriplet 1440 Dev file

|                          |   |
|--------------------------|---|
| <b>Description</b>       | Dev file is required for conversion of dta from ecotriplets. This file was created from the Feb. 12, 2019 calibration and provided by Wetlabs.  |
| <b>Format</b>            |   |
| <b>Resource Category</b> | scripts   |
| <b>URL</b>               | <a href="https://canwin-datahub.ad.umanitoba.ca/data/dataset/96757fdb-9840-4373-aea1-50334f060ec7/resource/c50c2240-ff6f-4667-b359-cfaa409457ef/download/ecotriplet_1440_phyco_2019.pdf">https://canwin-datahub.ad.umanitoba.ca/data/dataset/96757fdb-9840-4373-aea1-50334f060ec7/resource/c50c2240-ff6f-4667-b359-cfaa409457ef/download/ecotriplet_1440_phyco_2019.pdf</a>                                       |
| <b>Name</b>              | 2019 Chlorophyll, Phycocyanin Calibration Sheet   |
| <b>Description</b>       | Calibration file provided by WeLabs for phycocyanin and chlorophyll sensors for Ecotriplet 1440, calibrated Feb. 12, 2019   |
| <b>Format</b>            | PDF   |
| <b>Resource Category</b> | documents   |
| <b>URL</b>               | <a href="https://canwin-datahub.ad.umanitoba.ca/data/dataset/96757fdb-9840-4373-aea1-50334f060ec7/resource/9f0bcf4d-90c1-45ad-877b-82da6dc9960b/download/ecotriplet_1440_scattermet_2019.pdf">https://canwin-datahub.ad.umanitoba.ca/data/dataset/96757fdb-9840-4373-aea1-50334f060ec7/resource/9f0bcf4d-90c1-45ad-877b-82da6dc9960b/download/ecotriplet_1440_scattermet_2019.pdf</a>                             |
| <b>Name</b>              | 2019 Scattering sensor calibration file for Ecotriplet 1440   |
| <b>Description</b>       | Calibration file for scattering meter for Ecotriplet 1440, calibrated Feb. 12, 2021   |
| <b>Format</b>            | PDF   |
| <b>Resource Category</b> | documents   |
| <b>URL</b>               | <a href="https://canwin-datahub.ad.umanitoba.ca/data/dataset/96757fdb-9840-4373-aea1-50334f060ec7/resource/9bfd4319-d688-43d8-b19e-a09c1a3d56ba/download/ecotriplet_1440_bbf12wb_1440_2021calibr_phyco.pdf">https://canwin-datahub.ad.umanitoba.ca/data/dataset/96757fdb-9840-4373-aea1-50334f060ec7/resource/9bfd4319-d688-43d8-b19e-a09c1a3d56ba/download/ecotriplet_1440_bbf12wb_1440_2021calibr_phyco.pdf</a> |
| <b>Name</b>              | 2021 Calibration file for phycocyanin for Ecotriplet 1440   |
| <b>Description</b>       | Calibration file for phycocyanin sensor for Ecotriplet 1440, calibrated March 5, 2021   |
| <b>Format</b>            | PDF   |
| <b>Resource Category</b> | documents   |
| <b>URL</b>               | <a href="https://canwin-datahub.ad.umanitoba.ca/data/dataset/96757fdb-9840-4373-aea1-50334f060ec7/resource/40563411-e479-4b2b-8676-58d24dfc4ed7/download/ecotriplet_1440_bbf12wb_1440_2021.pdf">https://canwin-datahub.ad.umanitoba.ca/data/dataset/96757fdb-9840-4373-aea1-50334f060ec7/resource/40563411-e479-4b2b-8676-58d24dfc4ed7/download/ecotriplet_1440_bbf12wb_1440_2021.pdf</a>                         |
| <b>Name</b>              | 2021 Calibration file for chlorophyll, scattering sensors for Ecotriplet 1440   |
| <b>Description</b>       | Calibration file for chlorophyll, scattering sensor for Ecotriplet 1440, calibrated March 5, 2021   |
| <b>Format</b>            | PDF   |

**Resource  
Category**

documents

## Deployment details

**Title** Lake Waterhen Mooring 2016 Deployment

**URL** [https://canwin-datahub.ad.umanitoba.ca/data/en/deployment\\_details/gl\\_lwh-2016-deployment](https://canwin-datahub.ad.umanitoba.ca/data/en/deployment_details/gl_lwh-2016-deployment)

## Campaigns

**Title** MBGL Synoptic Survey 1 May-June 2016

**URL** <https://canwin-datahub.ad.umanitoba.ca/data/en/campaign/mbgl-ss1-may-june-2016>