|  |  |
| --- | --- |
| Authors | Mario Luis Miranda Montenegro  Michelle Albinus  Shungudzemwoyo P. Garaba |
| Title | Raw absorbance and fluorescence measurements of water samples during Nodularia spumigena bloom event on Lake Bante in Wilhelmshaven, Germany |
| Keywords | absorbance, hyperspectral, flourescence, Lake Bante, Germany, BanterSee |
| Description | Water sampling was conducted aboard a small electric motor powered vessel on Lake Bante in Wilhelmshaven, Germany during a Nodularia spumigena bloom event (25 August 2022). Samples were kept in the dark and stored at below -4 °C until further analyses were conducted. First the samples were pre-filtered through Whatman GF/F filters with a 0.7 µm mesh. Further filtration was done using Whatman Nuclepore Track-Etch 0.2 µm pore size membranes within 2 weeks after field sampling. Excitation-emission matrices (EEMs) and absorbance measurements were done using a Horiba Aqualog benchtop fluorometer. Sample filtrate was placed in a 1 cm quartz cuvette that had been pre-rinsed 3 times before each measurement. |
| Instrument | Horiba Aqualog benchtop fluorometer, 1 cm quartz cuvette |
| Geo-location | Lake Bante, Wilhelmshaven, Germany |
| License | Creative Commons Attribution 4.0 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Station** | **Date/Time (UTC)** | **Latitude**  **(° N, decimal)** | **Longitude**  **(° E, decimal)** | **Filename** |
| 1 | 2022-08-25T10:02:06 | 53.5093163 | 8.1134566 | BSAB05mg |
| 2 | 2022-08-25T10:09:36 | 53.50995 | 8.1132384 | BSAB04mg |
| 3 | 2022-08-25T10:16:26 | 53.510595 | 8.109634 | BSAB10mg |
| 4 | 2022-08-25T10:24:53 | 53.5089158 | 8.1077334 | BSAB09mg |
| 5 | 2022-08-25T10:34:17 | 53.5072977 | 8.1063956 | BSAB08mg |
| 6 | 2022-08-25T10:41:19 | 53.5068489 | 8.1031428 | BSAB06mg |
| 7 | 2022-08-25T10:47:51 | 53.5078897 | 8.1015643 | BSAB07mg |
| 8 | 2022-08-25T10:57:16 | 53.5091782 | 8.0986128 | BSAB11mg |
| 9 | 2022-08-25T11:13:23 | 53.5054488 | 8.0789262 | BSAB12mg |
| 10 | 2022-08-25T11:21:01 | 53.5047144 | 8.0785439 | BSAB18mg |
| 11 | 2022-08-25T11:33:32 | 53.5055006 | 8.0821414 | - |
| 12 | 2022-08-25T11:39:01 | 53.5048175 | 8.0846641 | BSAB23mg |
| 13 | 2022-08-25T11:46:35 | 53.506383 | 8.0872382 | BSAB20mg |
| 14 | 2022-08-25T11:51:45 | 53.5056244 | 8.0925507 | BSAB22mg |