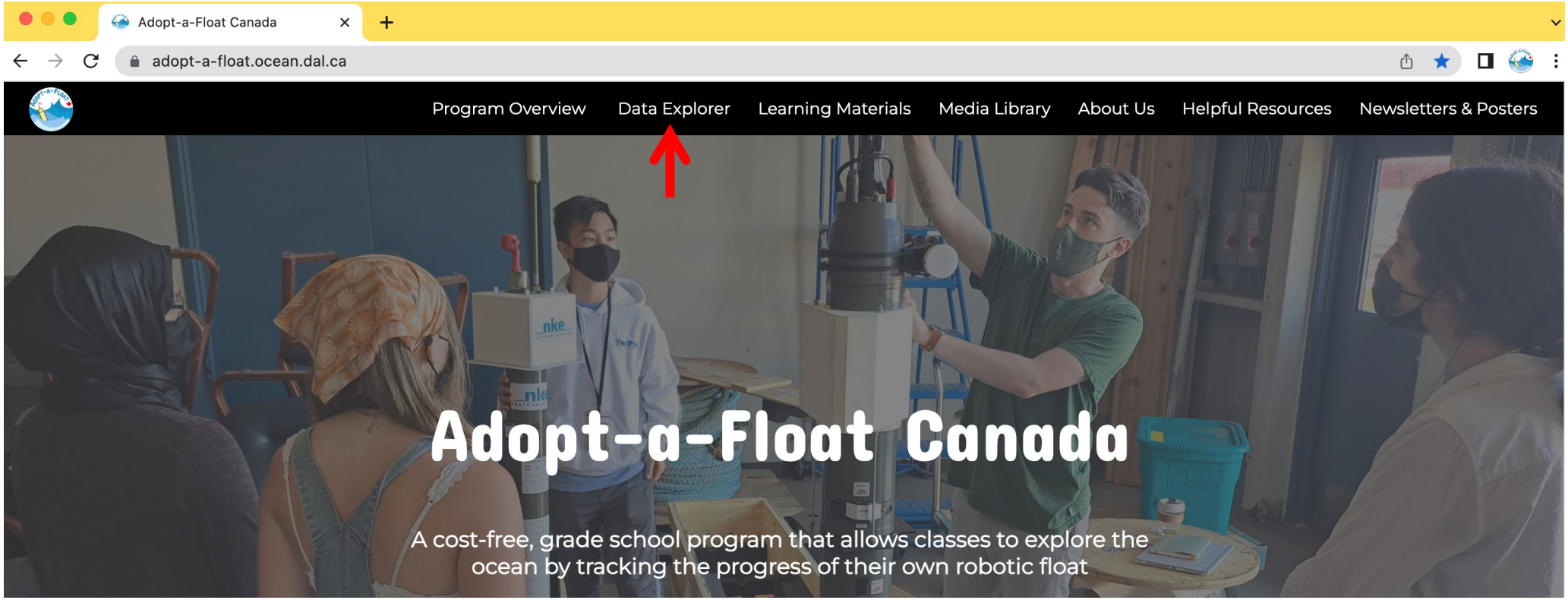
Data Access & Visualization Tutorial

Follow this step-by-step guide to learn how to view and download your adopted float's data.

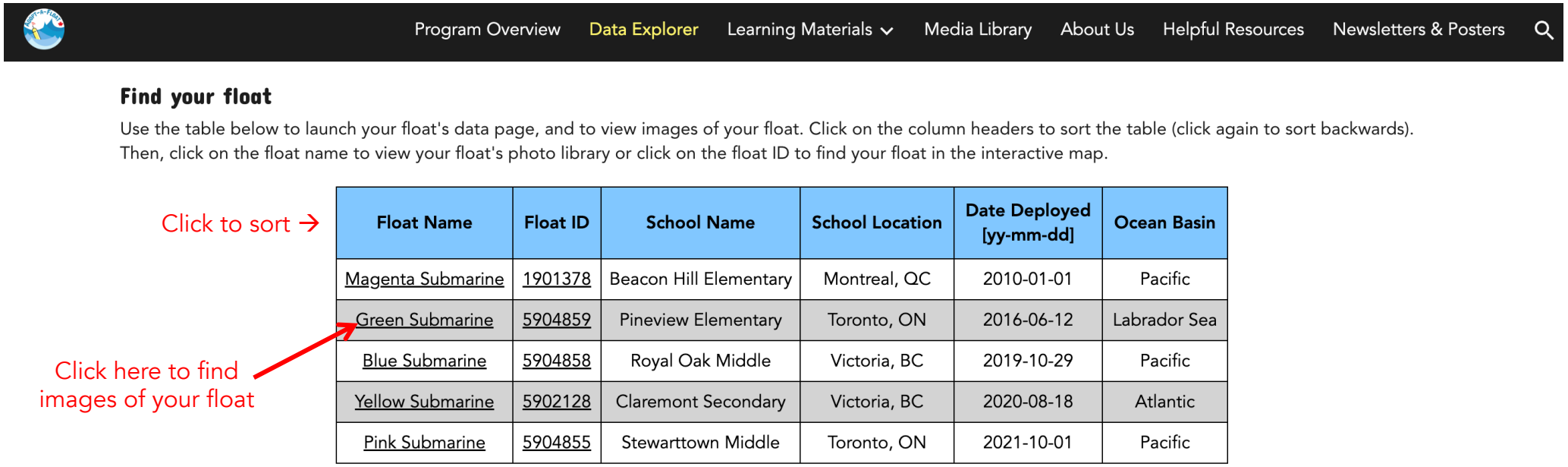
Step 1. Navigate to the Data Explorer page

Go to adopt-a-float.ocean.dal.ca and click on the Data Explorer tab.



Step 2. Find your float in the sortable float table

Click on the table headers to sort the table. After you have located your float, click on the float name to find images of your float.

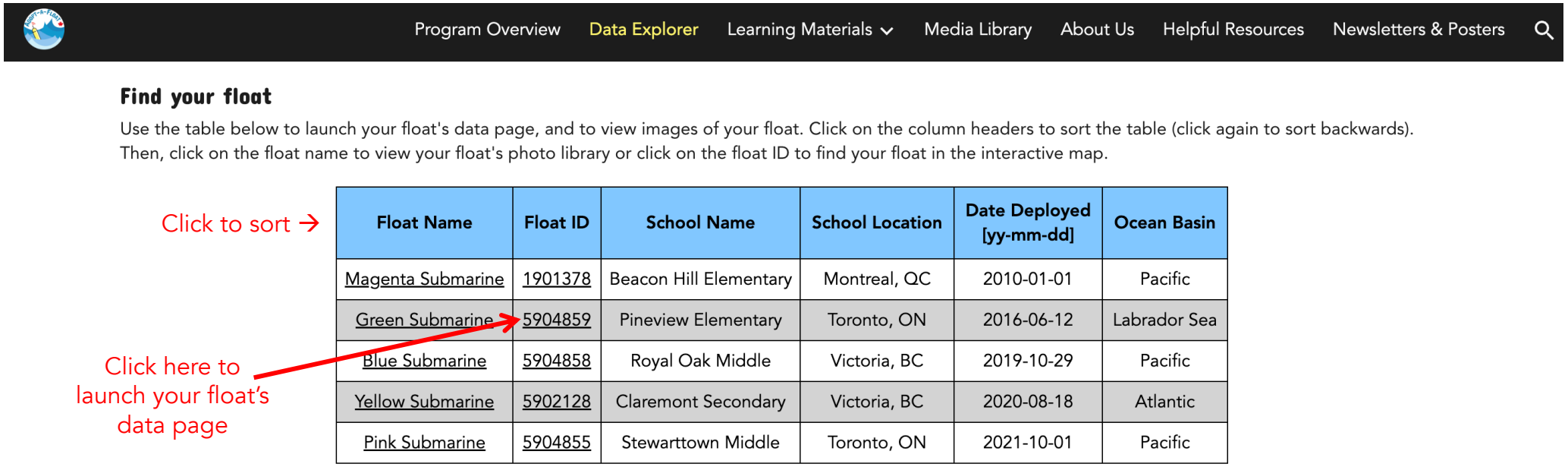


Float Name	Float ID	School Name	School Location	Date Deployed [yy-mm-dd]	Ocean Basin
Magenta Submarine	1901378	Beacon Hill Elementary	Montreal, QC	2010-01-01	Pacific
Green Submarine	5904859	Pineview Elementary	Toronto, ON	2016-06-12	Labrador Sea
Blue Submarine	5904858	Royal Oak Middle	Victoria, BC	2019-10-29	Pacific
Yellow Submarine	5902128	Claremont Secondary	Victoria, BC	2020-08-18	Atlantic
Pink Submarine	5904855	Stewarttown Middle	Toronto, ON	2021-10-01	Pacific

Note: the information in the table in this tutorial is for example purposes only.

Step 3. Launch your float's data page

Click on the float ID number to launch the float's data page on the EuroArgo data selection / fleet monitoring dashboard.



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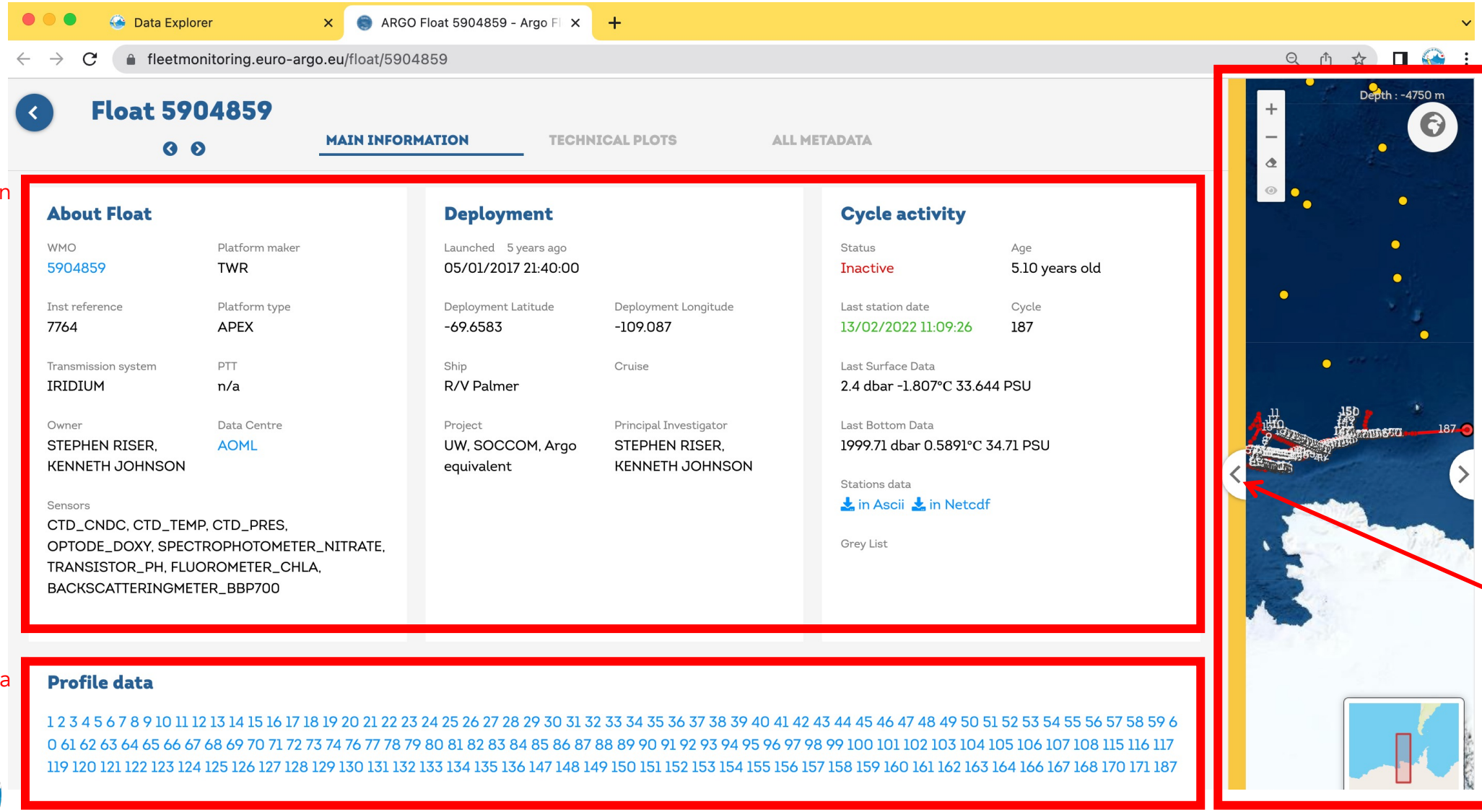
Note: the information in the table in this tutorial is for example purposes only.

The data page contains the float's information, a map of its location and trajectory, and links to the float data.



Float information

Float data

Float map

Click to expand the map

Wait, what is a float's ID number?!

Before we move on, let's take a moment to go over what your float's ID number is…

The ID number, sometimes referred to as the **WMO number**, is a unique set of digits that identify your float. Every Argo float has an ID number that is assigned when the float is manufactured. No two floats have the same number. Knowing a float's ID number will help to identify a float in data tables and on the different interactive float maps and data dashboards.

Data table

Float Name	Float ID	School Name	School Location	Date Deployed [yy-mm-dd]	Ocean Basin
Magenta Submarine	1901378	Beacon Hill Elementary	Montreal, QC	2010-01-01	Pacific
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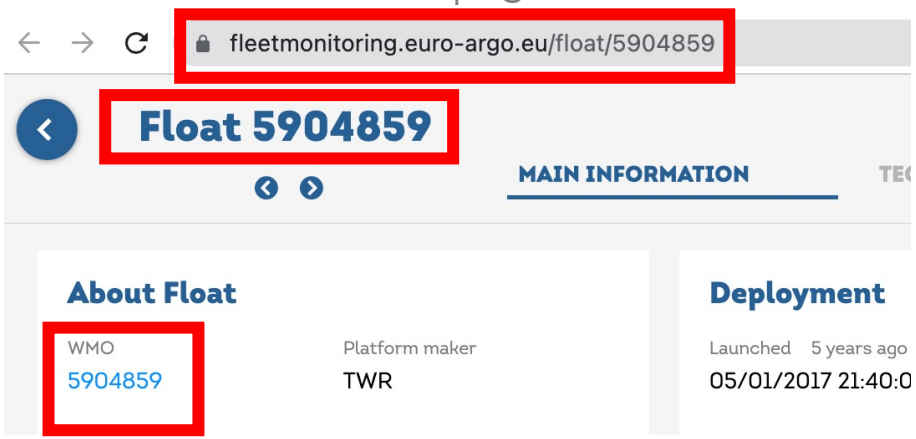
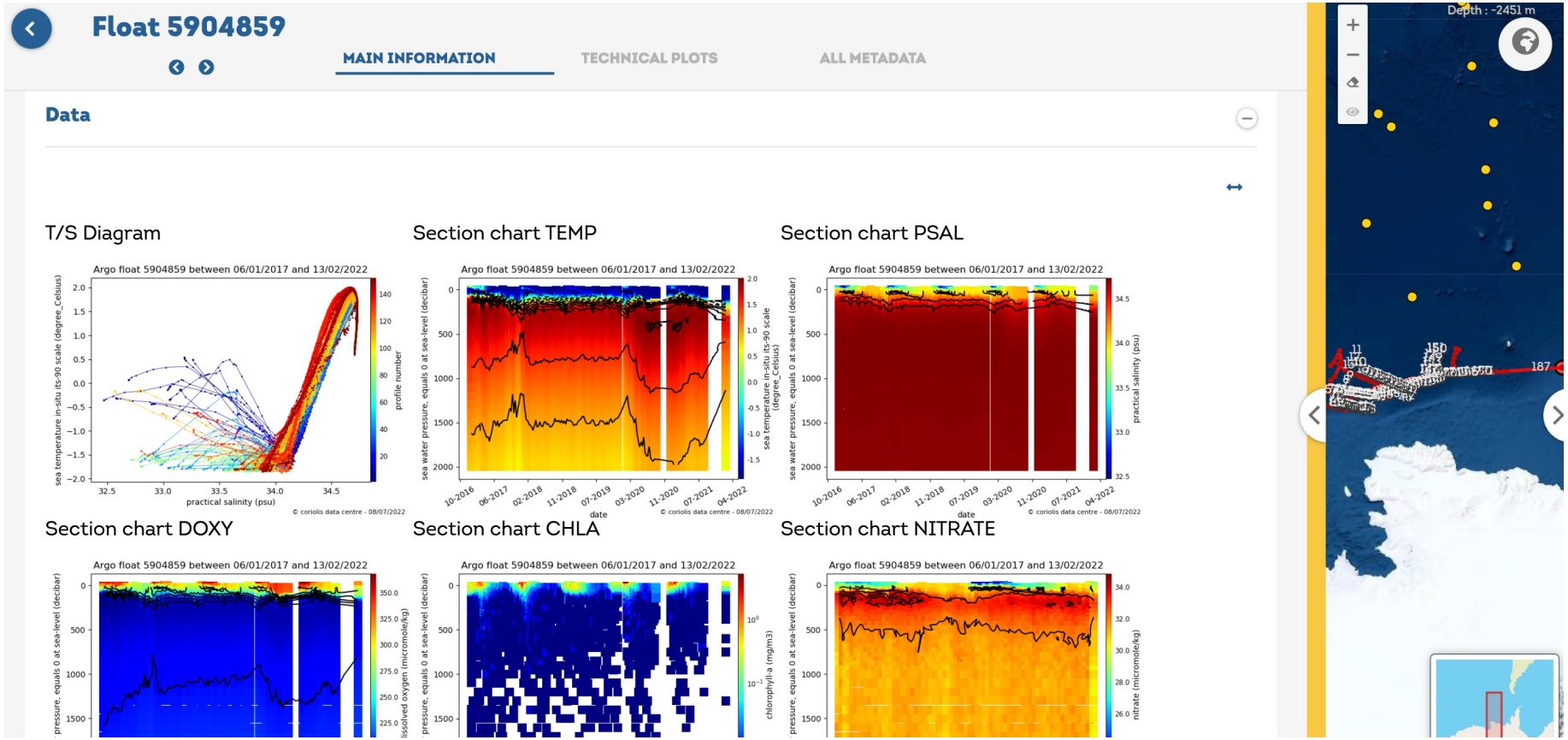
Data page



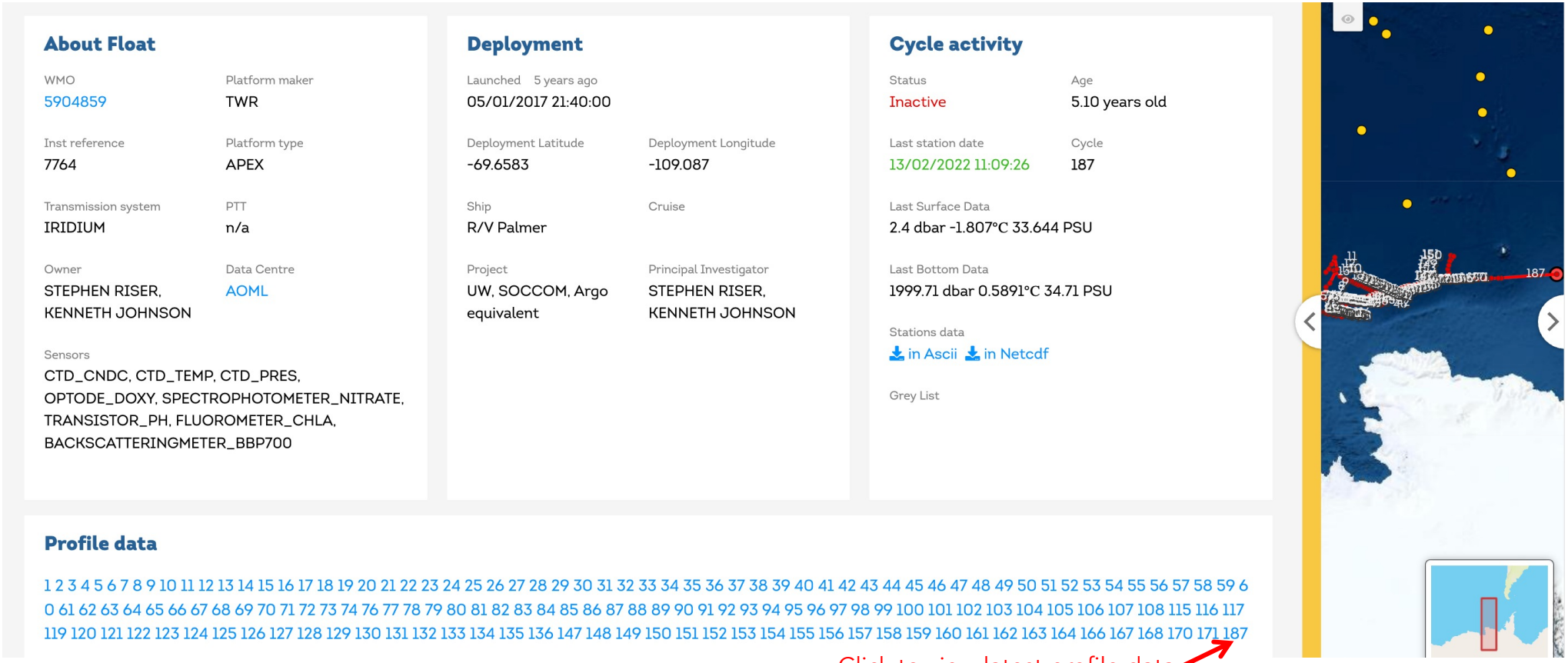
Step 4. View quick-view float data figures

Scroll down on the float's data page to view different figures (data images) of your float's data. Click on an image to make it larger.



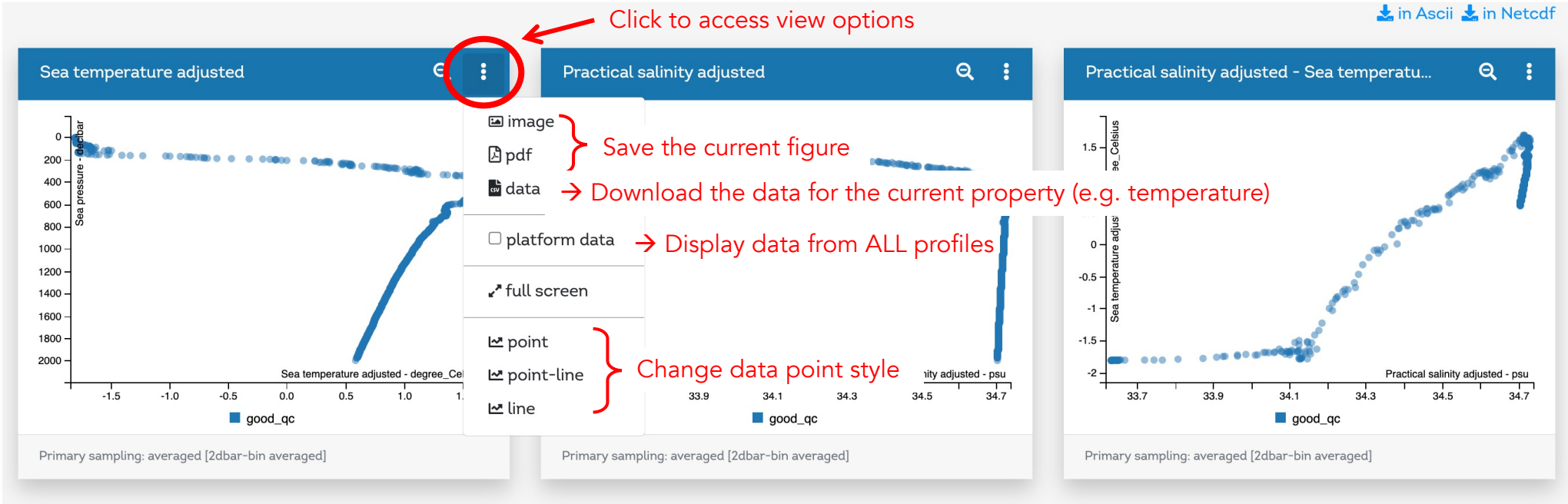
Step 5. View and download data from one profile

Click on a profile number to load that profile's data. The highest number is the *most recent* profile.



Step 5 (continued).
View and download data from one profile

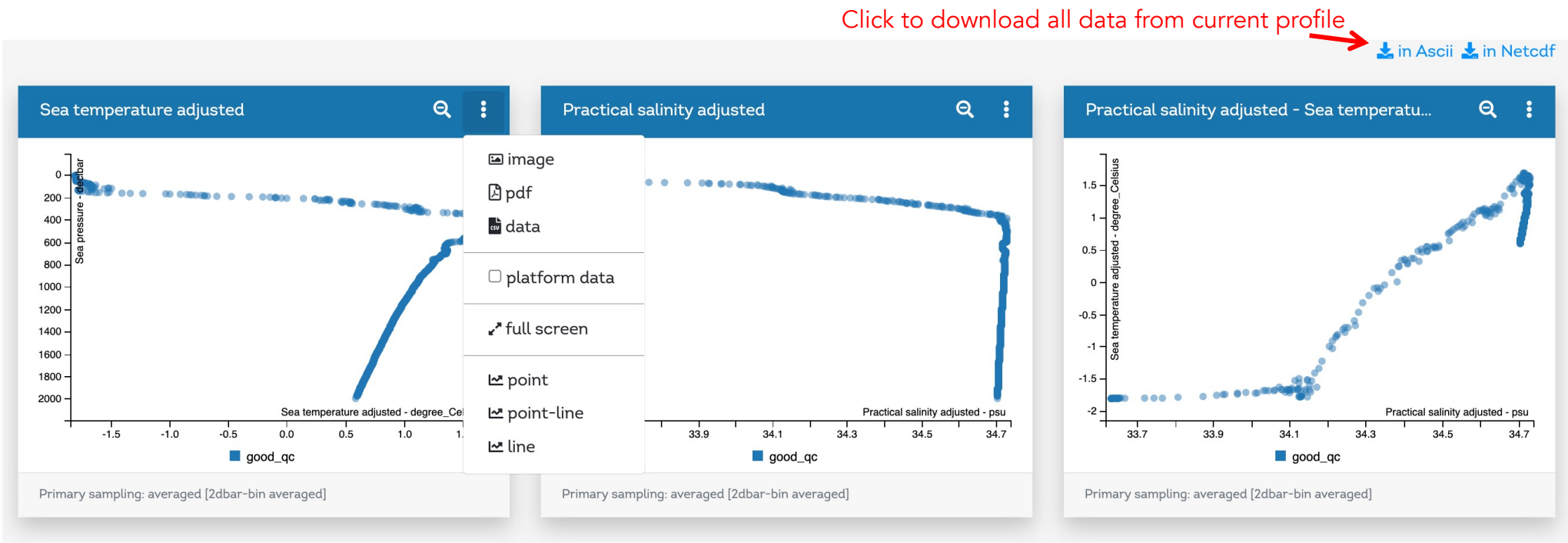
Change view options, save the figure or download the selected property data by clicking on the three dots in the upper-right of each figure panel.



Step 5 (continued).
View and download data from one profile

Download all the data from the current profile number by clicking the “in Ascii” or “in Netcdf” buttons. You will be required to enter your email address. Check your inbox for the data download link from noreply@ifremer.fr - it may take several minutes or hours for the data to arrive.

Note: you will be able to open the Ascii data in a program like Microsoft Excel or Google Sheets. A different software, like Python, R or Matlab, will be required to open the NetCDF files.



Step 5 (continued).
View and download data from one profile

The data will arrive in your inbox in a message that looks like this:

Your data file is available at
https://data-subsetting.ifremer.fr/DataSelection_b146c6c6-4636-4f93-b0b9-9d145a41d9ca.tar.gz

Keep in mind that the link to your file will expire after 7 days

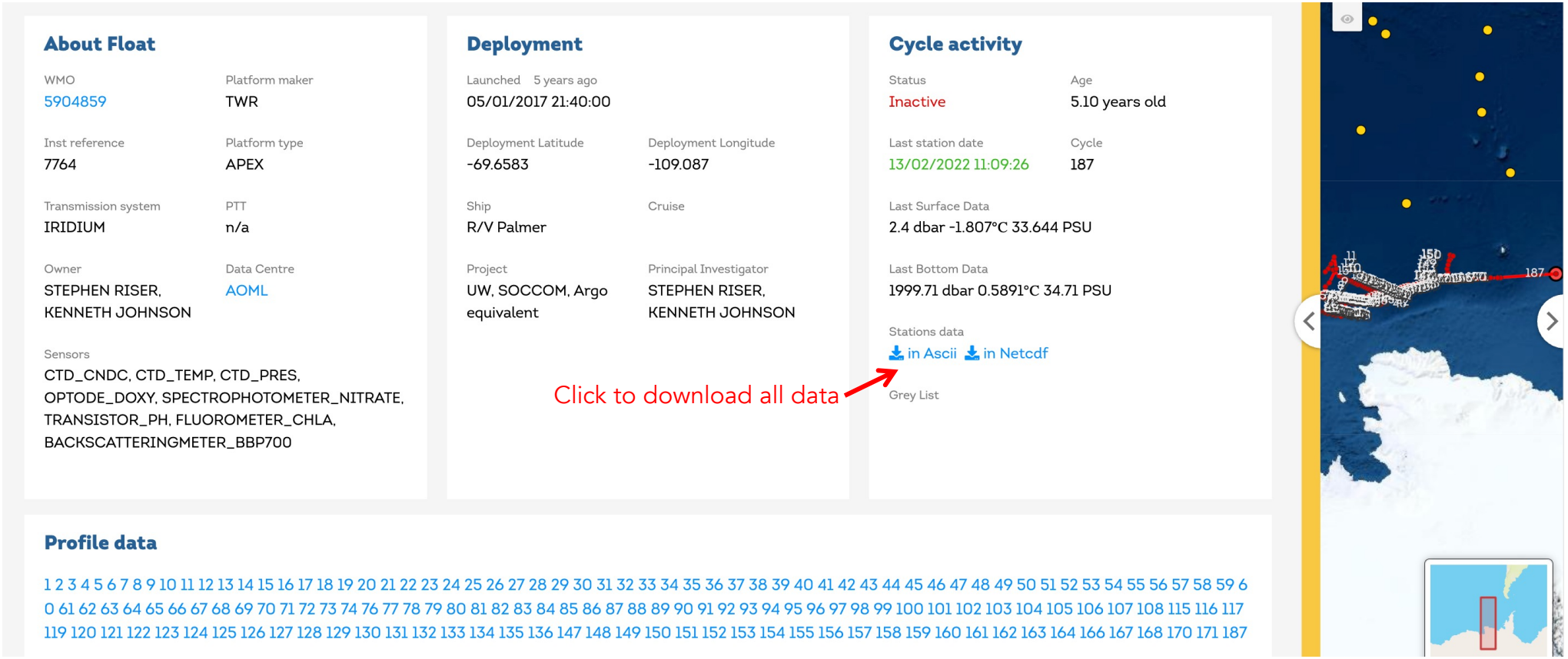
Best regards,
Coriolis data management team.

Note that the data contained in the corresponding file are for one profile only.

Note as well that the URL above is an example only – the data you access will have a different link.

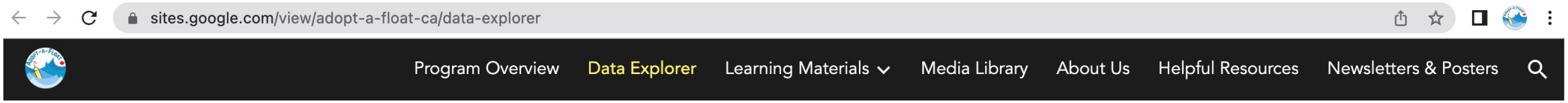
Step 6.
View and download data from ALL of your float's profiles

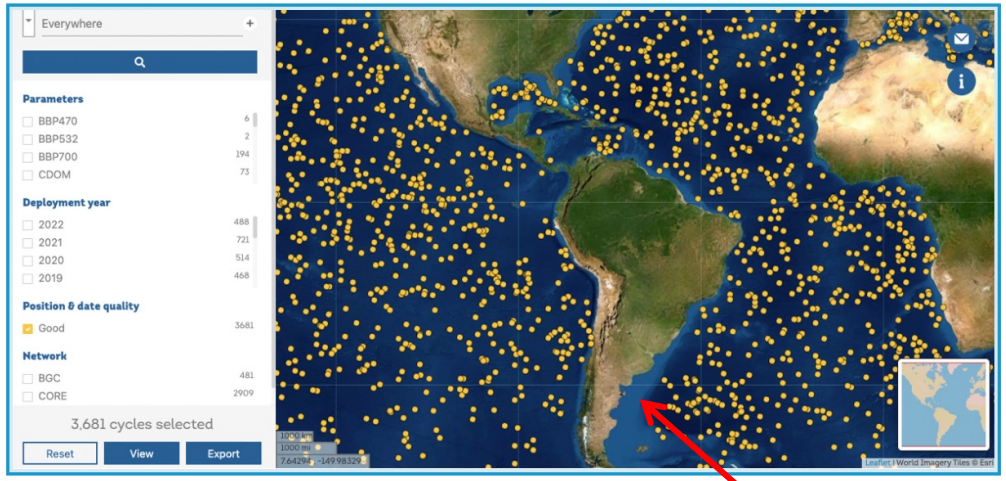
To download all the float's data, return the the float's main data page. Click on the "in Ascii" or "in Netcdf". Again, you will be asked to enter your email address. The data will arrive in your inbox.



Step 7. View and download data from multiple floats

In some cases, you may wish to download data from multiple floats. To do that, navigate back to the Data Explorer page on the Adopt-a-Float website and launch the interactive map.





Interactive Map

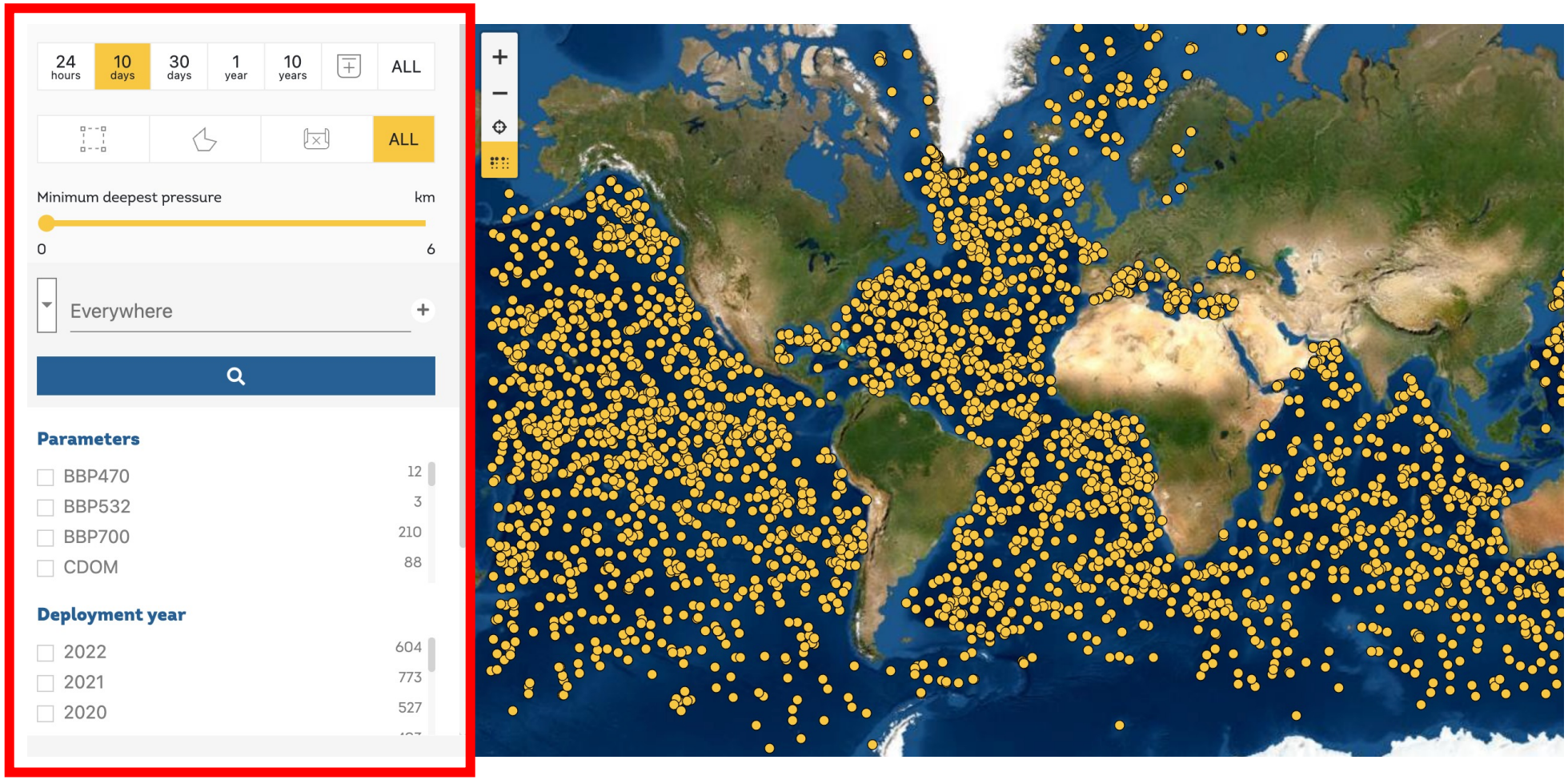
See where your float - and hundreds of other BGC-Argo floats - have been lately in this interactive mapping tool. Source: Euro-Argo.

Click on the image to launch the map (https://dataselection.euro-argo.eu/)

Step 7 (continued).
View and download data from multiple floats

Narrow your data search by using the selection tools at the left.

Selection tools



Step 7 (continued).
View and download data from multiple floats

For example, you may wish to search for all oxygen profiles collected by Canadian floats.

Profiles from all time (i.e., collected since the beginning of the Argo program)

Profiles collected in all locations

Canadian-owned floats

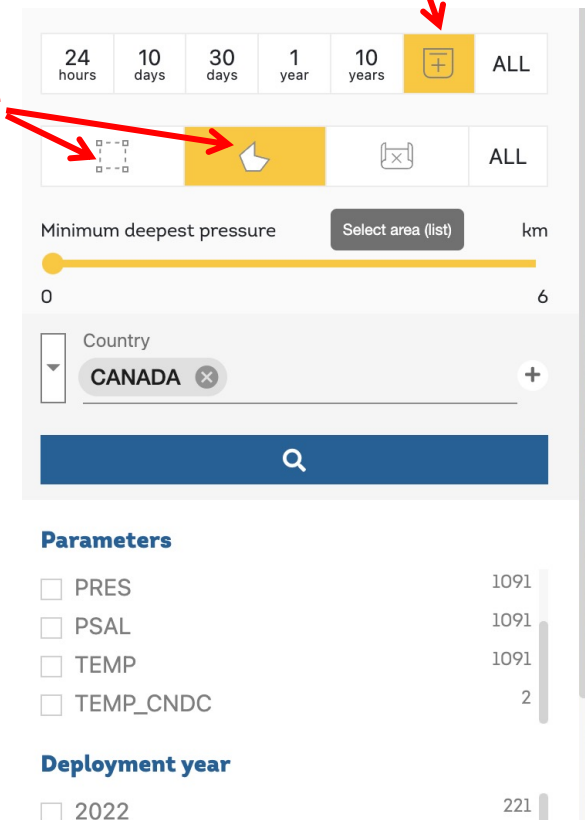
Floats that measure oxygen

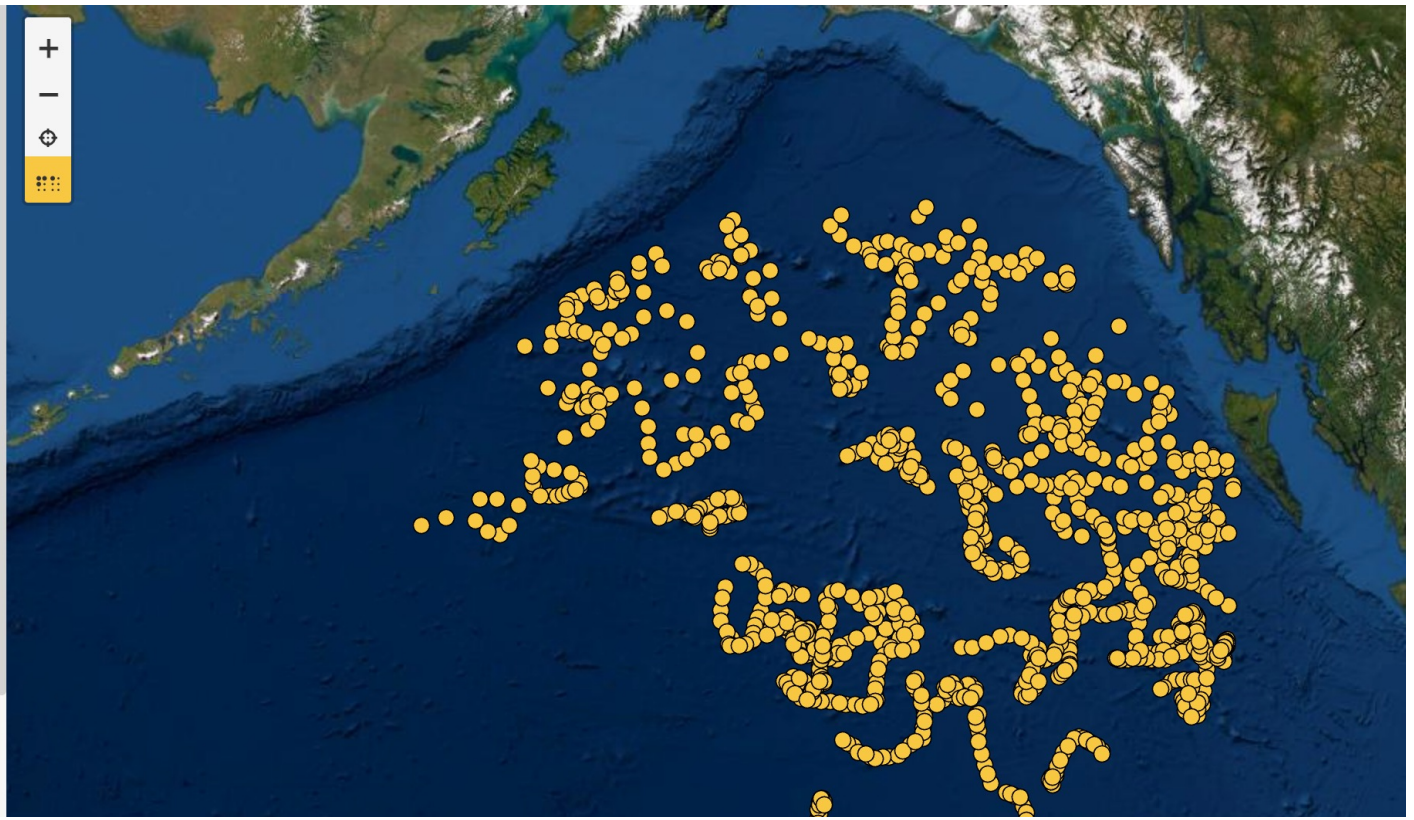
Step 7 (continued).
View and download data from multiple floats

Or, you may wish to download data from a specific region, during a specific time.

Specify date range

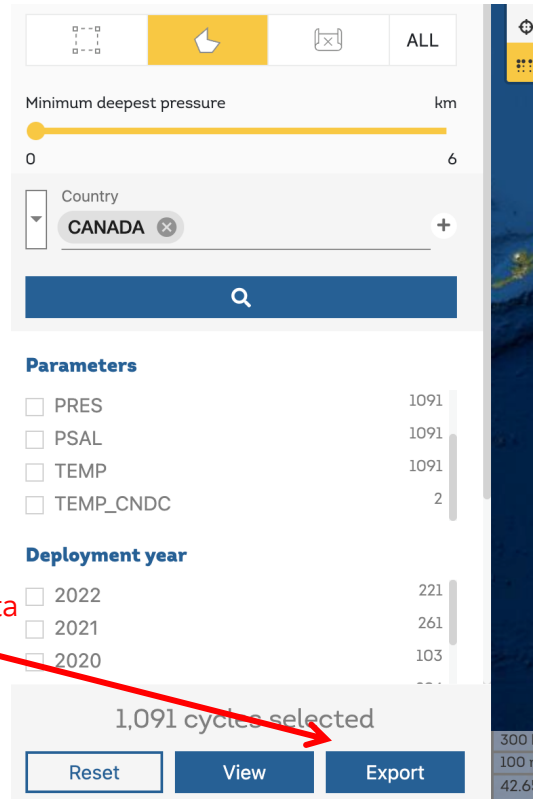
Select a geographic area using a rectangle or polygon



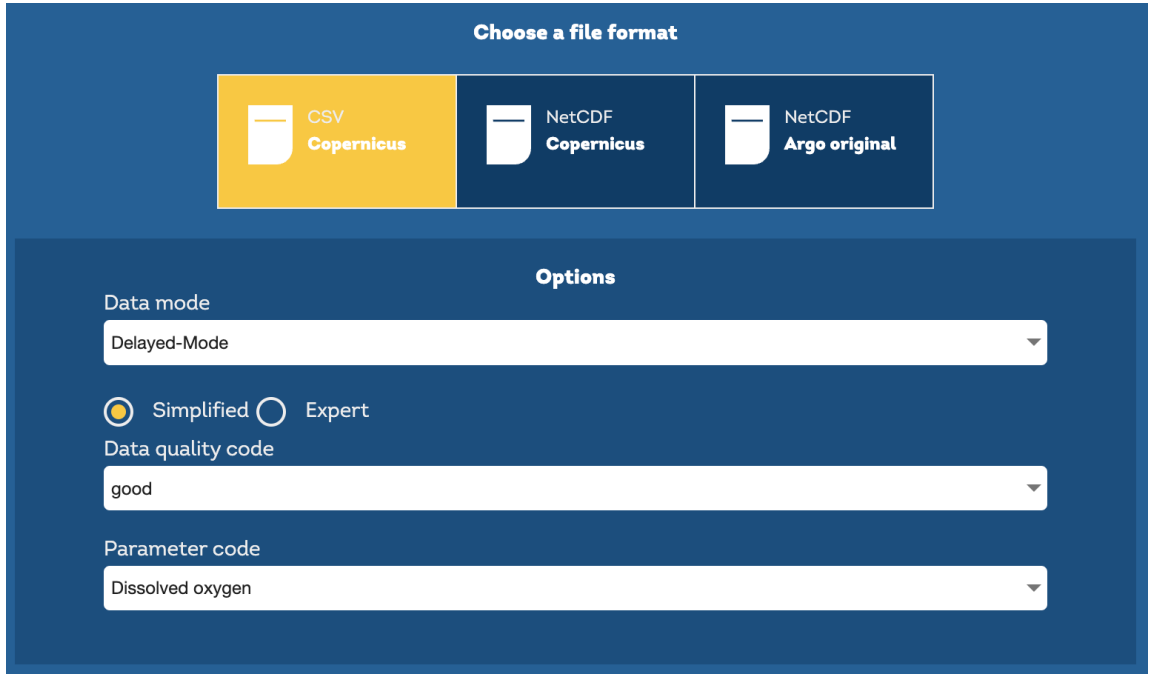


Step 7 (continued).
View and download data from multiple floats

When you are happy with your selection, click 'Export' at the bottom of the screen. From there, choose your export options. Select "Delayed mode" and "good" data quality code to download the high-quality data only. You may select one or more parameters to download. Enter your email and keep an eye on your inbox.

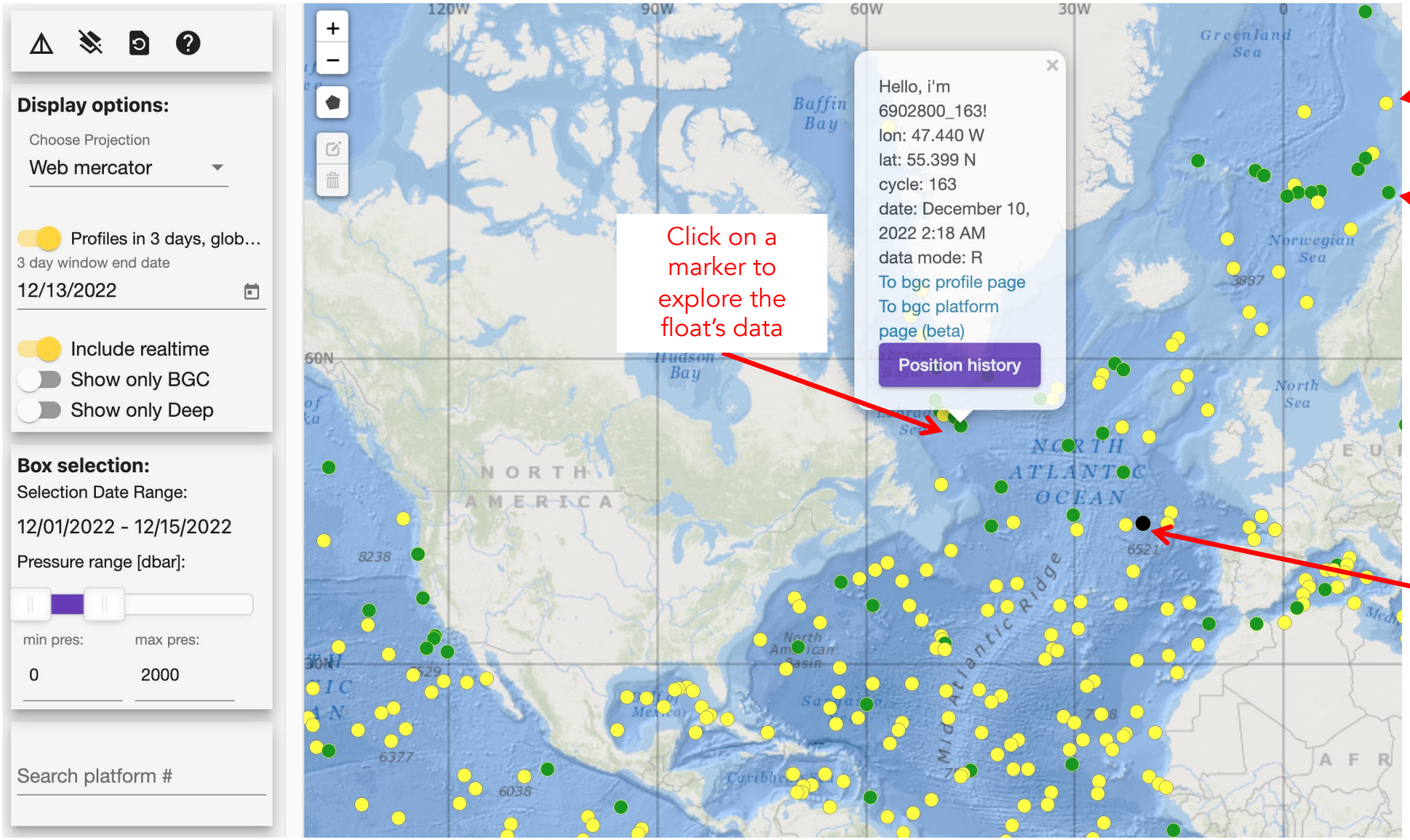


Download selected data



Check out our data analysis tutorials for information on how to begin analyzing the data that you have downloaded.

Explore the Argovis dashboard as an alternative to the mapping and data visualization tools provided by the Euro-Argo data selection interface.



From here, you can search for and view data from specific floats, by adjusting the search settings on the left side of the screen.