

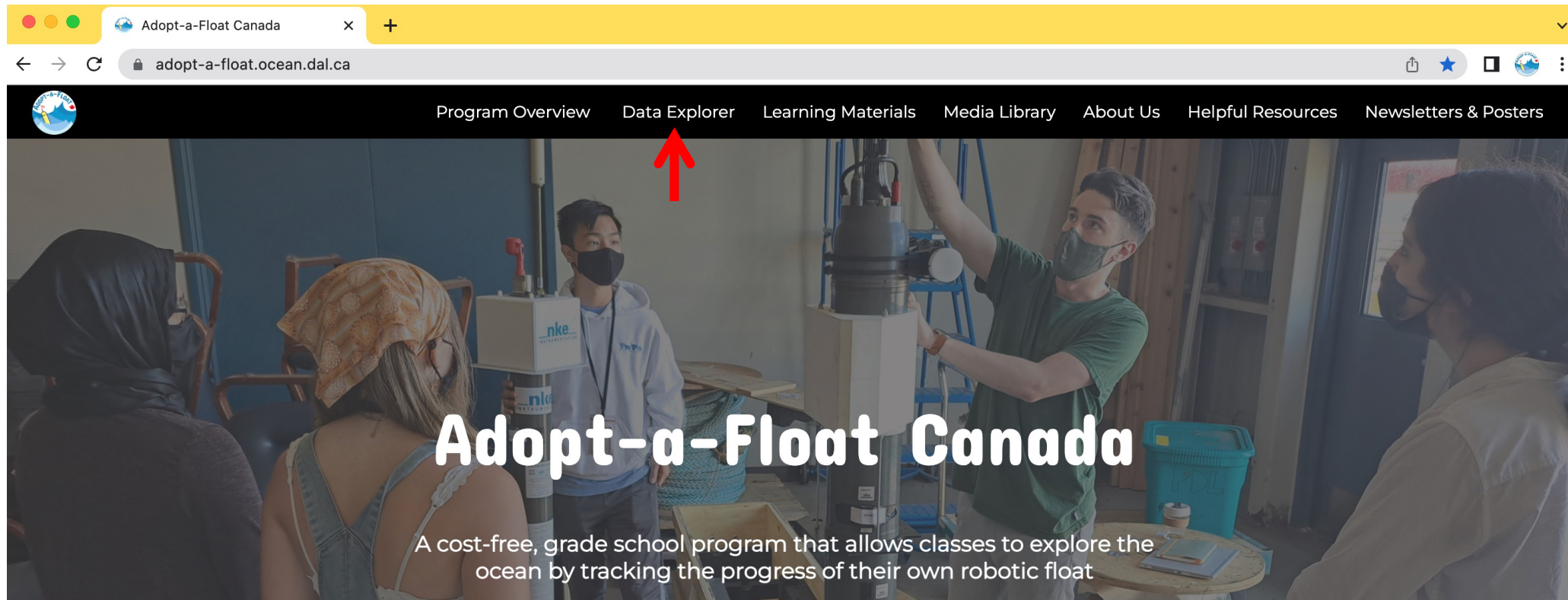
Data Access & Visualization Tutorial

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



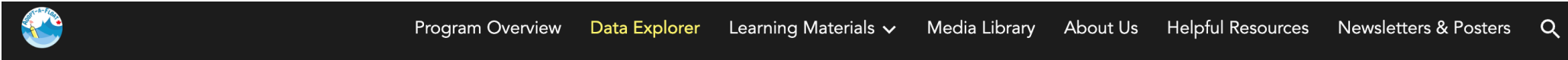
Step 1. Navigate to the Data Explorer page

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.



Find your float

Use the table below to launch your float's data page, and to view images of your float. Click on the column headers to sort the table (click again to sort backwards). Then, click on the float name to view your float's photo library or click on the float ID to find your float in the interactive map.

Click to sort →

Click here to find images of your float

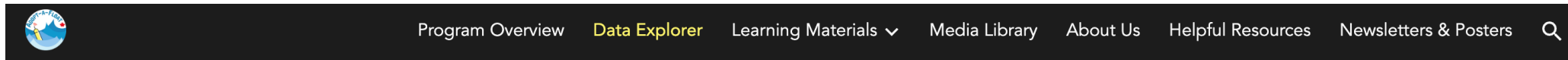
Float Name	Float ID	School Name	School Location	Date Deployed [yy-mm-dd]	Ocean Basin
Magenta Submarine	1901378	Beacon Hill Elementary	Montreal, QC	2010-01-01	Pacific
Green Submarine	5904859	Pineview Elementary	Toronto, ON	2016-06-12	Labrador Sea
Blue Submarine	5904858	Royal Oak Middle	Victoria, BC	2019-10-29	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.



Find your float

Use the table below to launch your float's data page, and to view images of your float. Click on the column headers to sort the table (click again to sort backwards). Then, click on the float name to view your float's photo library or click on the float ID to find your float in the interactive map.

Click to sort →

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

Click here to launch your float's data page



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 5904859

MAIN INFORMATION TECHNICAL PLOTS ALL METADATA

About Float

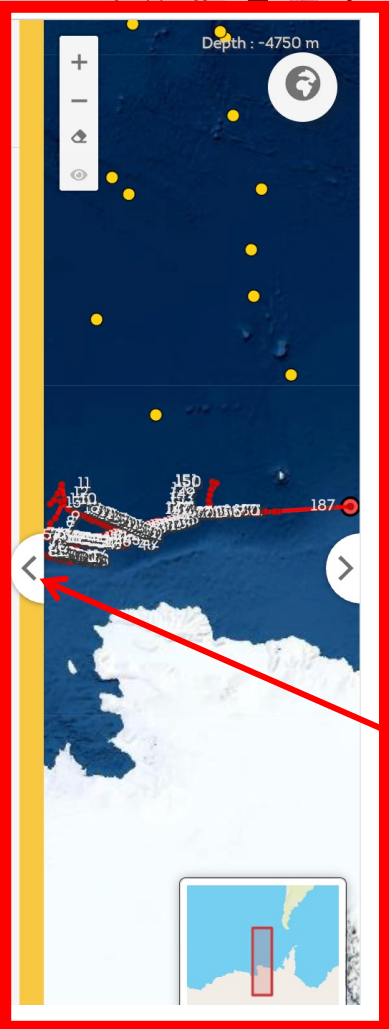
WMO 5904859	Platform maker TWR
Inst reference 7764	Platform type APEX
Transmission system IRIDIUM	PTT n/a
Owner STEPHEN RISER, KENNETH JOHNSON	Data Centre AOML
Sensors CTD_CNDC, CTD_TEMP, CTD_PRES, OPTODE_DOXY, SPECTROPHOTOMETER_NITRATE, TRANSISTOR_PH, FLUOROMETER_CHLA, BACKSCATTERINGMETER_BBP700	

Deployment

Launched 5 years ago 05/01/2017 21:40:00	Deployment Latitude -69.6583	Deployment Longitude -109.087
Ship R/V Palmer	Cruise	
Project UW, SOCCOM, Argo equivalent	Principal Investigator STEPHEN RISER, KENNETH JOHNSON	

Cycle activity

Status Inactive	Age 5.10 years old
Last station date 13/02/2022 11:09:26	Cycle 187
Last Surface Data 2.4 dbar -1.807°C 33.644 PSU	
Last Bottom Data 1999.71 dbar 0.5891°C 34.71 PSU	
Stations data in Ascii in Netcdf	
Grey List	



Float map

Click to expand the map

Profile data

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 115 116 117 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 166 167 168 170 171 187

Float information

Float data



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	1901278	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

Data page

← → ↻ fleetmonitoring.euro-argo.eu/float/5904859

← **Float 5904859**

⏪ ⏩ **MAIN INFORMATION** **TECHNICAL**

About Float

WMO
5904859

Platform maker
TWR

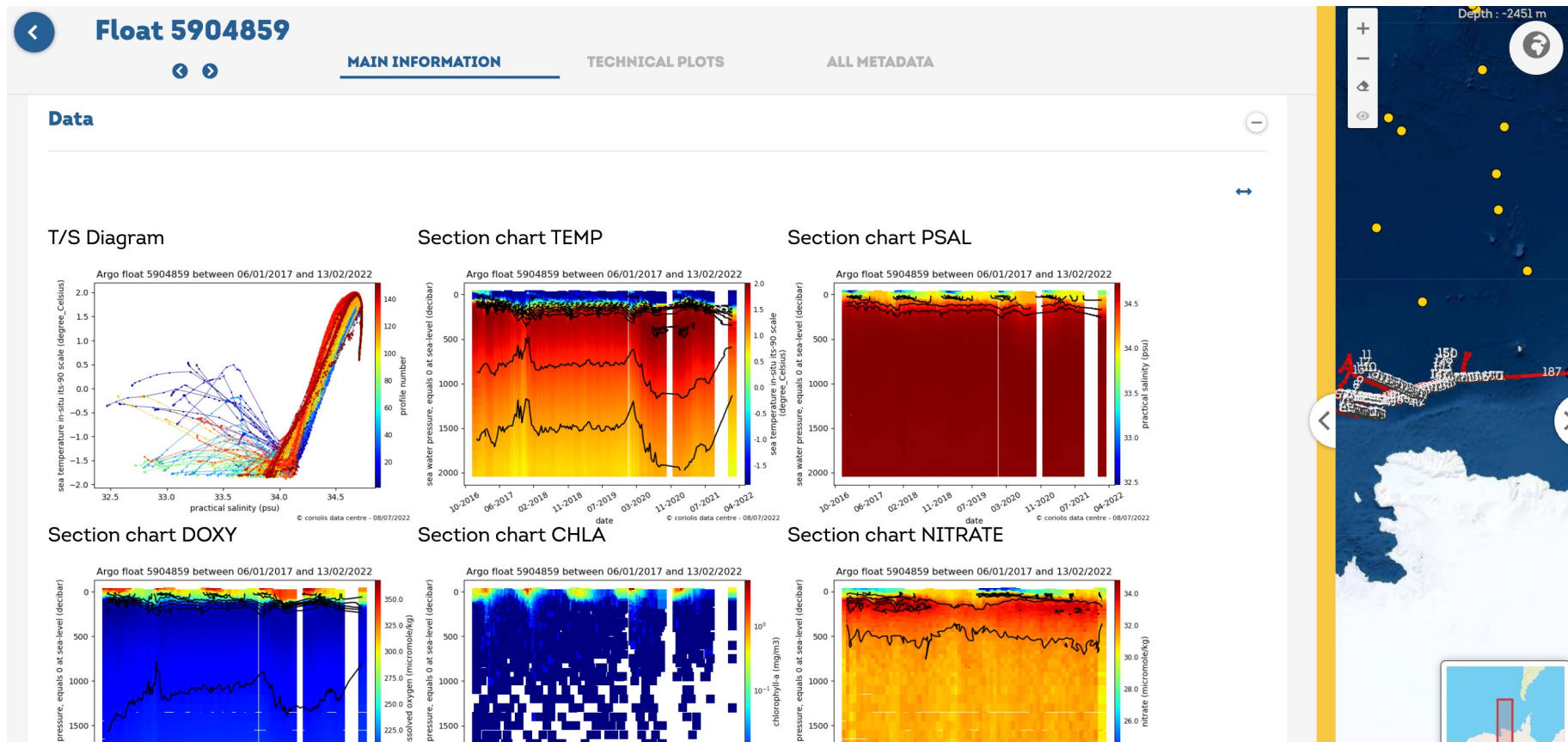
Deployment

Launched 5 years ago
05/01/2017 21:40:0



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.



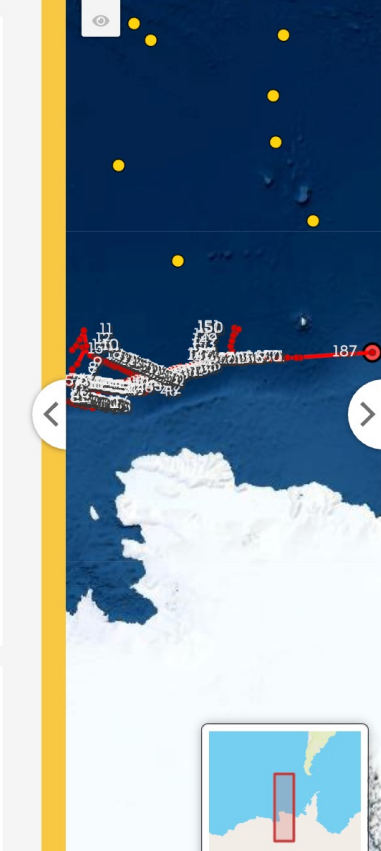
Step 5. View and download data from one profile

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

About Float		Deployment		Cycle activity	
WMO 5904859	Platform maker TWR	Launched 5 years ago 05/01/2017 21:40:00		Status Inactive	Age 5.10 years old
Inst reference 7764	Platform type APEX	Deployment Latitude -69.6583	Deployment Longitude -109.087	Last station date 13/02/2022 11:09:26	Cycle 187
Transmission system IRIDIUM	PTT n/a	Ship R/V Palmer	Cruise	Last Surface Data 2.4 dbar -1.807°C 33.644 PSU	
Owner STEPHEN RISER, KENNETH JOHNSON	Data Centre AOML	Project UW, SOCCOM, Argo equivalent	Principal Investigator STEPHEN RISER, KENNETH JOHNSON	Last Bottom Data 1999.71 dbar 0.5891°C 34.71 PSU	
Sensors CTD_CNDC, CTD_TEMP, CTD_PRES, OPTODE_DOXY, SPECTROPHOTOMETER_NITRATE, TRANSISTOR_PH, FLUOROMETER_CHLA, BACKSCATTERINGMETER_BBP700					

Profile data

[1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [11](#) [12](#) [13](#) [14](#) [15](#) [16](#) [17](#) [18](#) [19](#) [20](#) [21](#) [22](#) [23](#) [24](#) [25](#) [26](#) [27](#) [28](#) [29](#) [30](#) [31](#) [32](#) [33](#) [34](#) [35](#) [36](#) [37](#) [38](#) [39](#) [40](#) [41](#) [42](#) [43](#) [44](#) [45](#) [46](#) [47](#) [48](#) [49](#) [50](#) [51](#) [52](#) [53](#) [54](#) [55](#) [56](#) [57](#) [58](#) [59](#) [60](#) [61](#) [62](#) [63](#) [64](#) [65](#) [66](#) [67](#) [68](#) [69](#) [70](#) [71](#) [72](#) [73](#) [74](#) [76](#) [77](#) [78](#) [79](#) [80](#) [81](#) [82](#) [83](#) [84](#) [85](#) [86](#) [87](#) [88](#) [89](#) [90](#) [91](#) [92](#) [93](#) [94](#) [95](#) [96](#) [97](#) [98](#) [99](#) [100](#) [101](#) [102](#) [103](#) [104](#) [105](#) [106](#) [107](#) [108](#) [115](#) [116](#) [117](#) [119](#) [120](#) [121](#) [122](#) [123](#) [124](#) [125](#) [126](#) [127](#) [128](#) [129](#) [130](#) [131](#) [132](#) [133](#) [134](#) [135](#) [136](#) [147](#) [148](#) [149](#) [150](#) [151](#) [152](#) [153](#) [154](#) [155](#) [156](#) [157](#) [158](#) [159](#) [160](#) [161](#) [162](#) [163](#) [164](#) [166](#) [167](#) [168](#) [170](#) [171](#) [187](#)

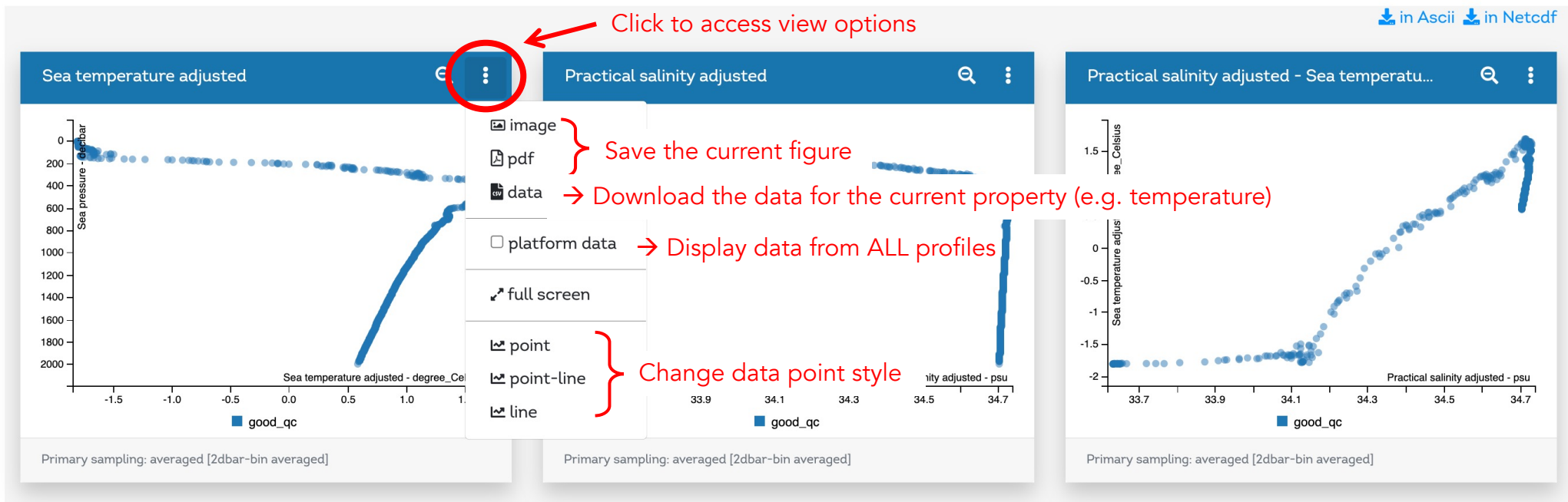


Click to view latest profile data 

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).

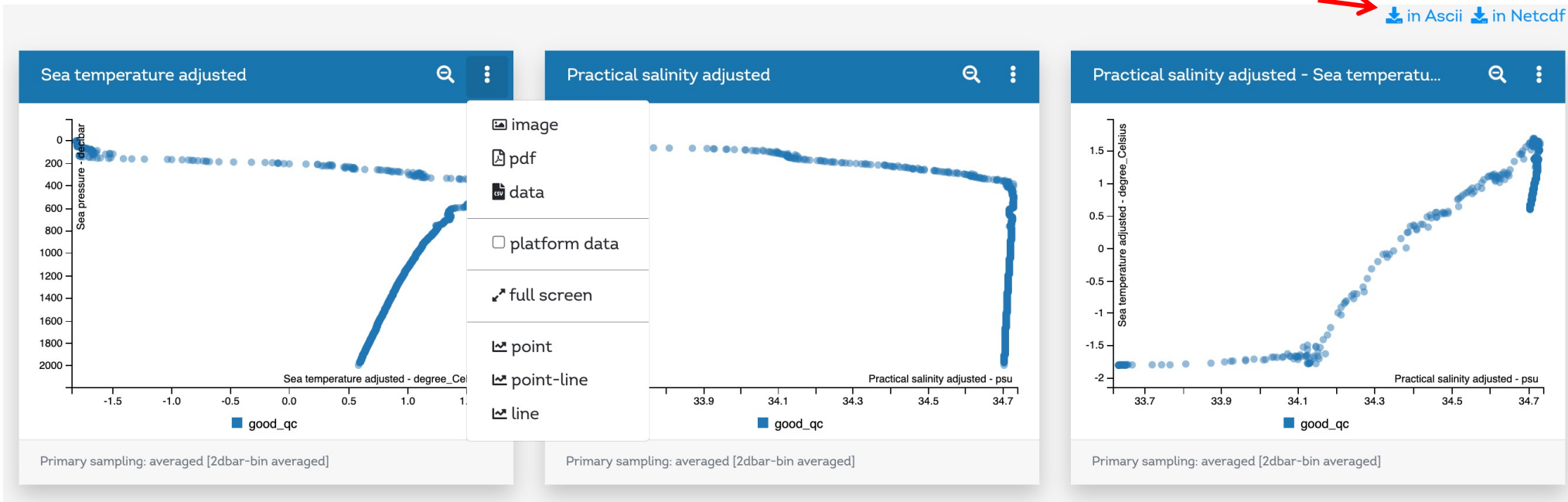
View and download data from one profile

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.

Click to download all data from current profile

[in Ascii](#) [in Netcdf](#)



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 to 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.

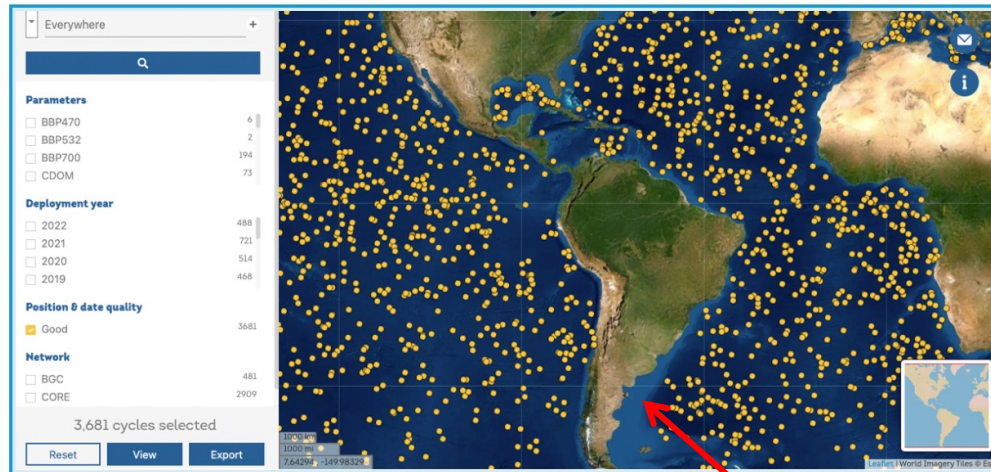
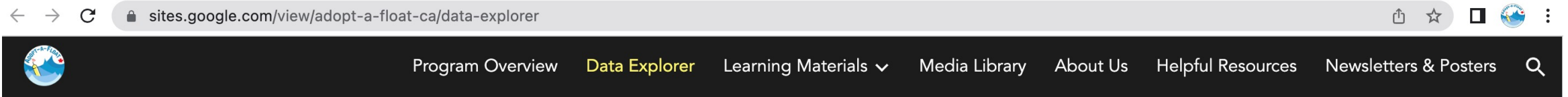
The screenshot shows a web interface for a float profile. It is divided into several sections:

- About Float:** WMO 5904859, Platform maker TWR, Inst reference 7764, Platform type APEX, Transmission system IRIDIUM, PTT n/a, Owner STEPHEN RISER, KENNETH JOHNSON, Data Centre AOML, Sensors CTD_CNDC, CTD_TEMP, CTD_PRES, OPTODE_DOXY, SPECTROPHOTOMETER_NITRATE, TRANSISTOR_PH, FLUOROMETER_CHLA, BACKSCATTERINGMETER_BBP700.
- Deployment:** Launched 5 years ago, 05/01/2017 21:40:00, Deployment Latitude -69.6583, Deployment Longitude -109.087, Ship R/V Palmer, Cruise, Project UW, SOCCOM, Argo equivalent, Principal Investigator STEPHEN RISER, KENNETH JOHNSON.
- Cycle activity:** Status Inactive, Age 5.10 years old, Last station date 13/02/2022 11:09:26, Cycle 187, Last Surface Data 2.4 dbar -1.807°C 33.644 PSU, Last Bottom Data 1999.71 dbar 0.5891°C 34.71 PSU.
- Stations data:** Includes links for "in Ascii" and "in Netcdf". A red arrow points to these links with the text "Click to download all data".
- Profile data:** A list of profile numbers from 1 to 187.
- Map:** A satellite map showing the float's location in the Southern Ocean, with a red line indicating its track and numbered stations (11, 15D, 150, 187).



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

24 hours 10 days 30 days 1 year 10 years + ALL

Selection mode: [Deselect] [Select] [Deselect] [Select] ALL

Minimum deepest pressure: 0 km to 6 km

Location: Everywhere +

Parameters:

- BBP470 12
- BBP532 3
- BBP700 210
- CDOM 88

Deployment year:

- 2022 604
- 2021 773
- 2020 527



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

The screenshot shows the Argo data search interface. The top navigation bar includes time filters: 24 hours, 10 days, 30 days, 1 year, 10 years, and ALL. The location filter is set to ALL. The country filter is set to CANADA. The parameters filter is set to DOXY. The deployment year filter is set to 2020. The map shows the North Atlantic region with numerous yellow circular markers representing float locations. A search bar is located below the filters.

Parameter	Count
DOWN_IRRADIANCE555	1201
DOXY	244141
MTIME	10227
NB_SAMPLE_CTD	2423

Deployment year	Count
2022	250
2021	426
2020	150



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.

Select a geographic area using a rectangle or polygon

Specify date range

24 hours 10 days 30 days 1 year 10 years ALL

ALL

Minimum deepest pressure km

0 6

Country
CANADA

Parameters

PRES 1091

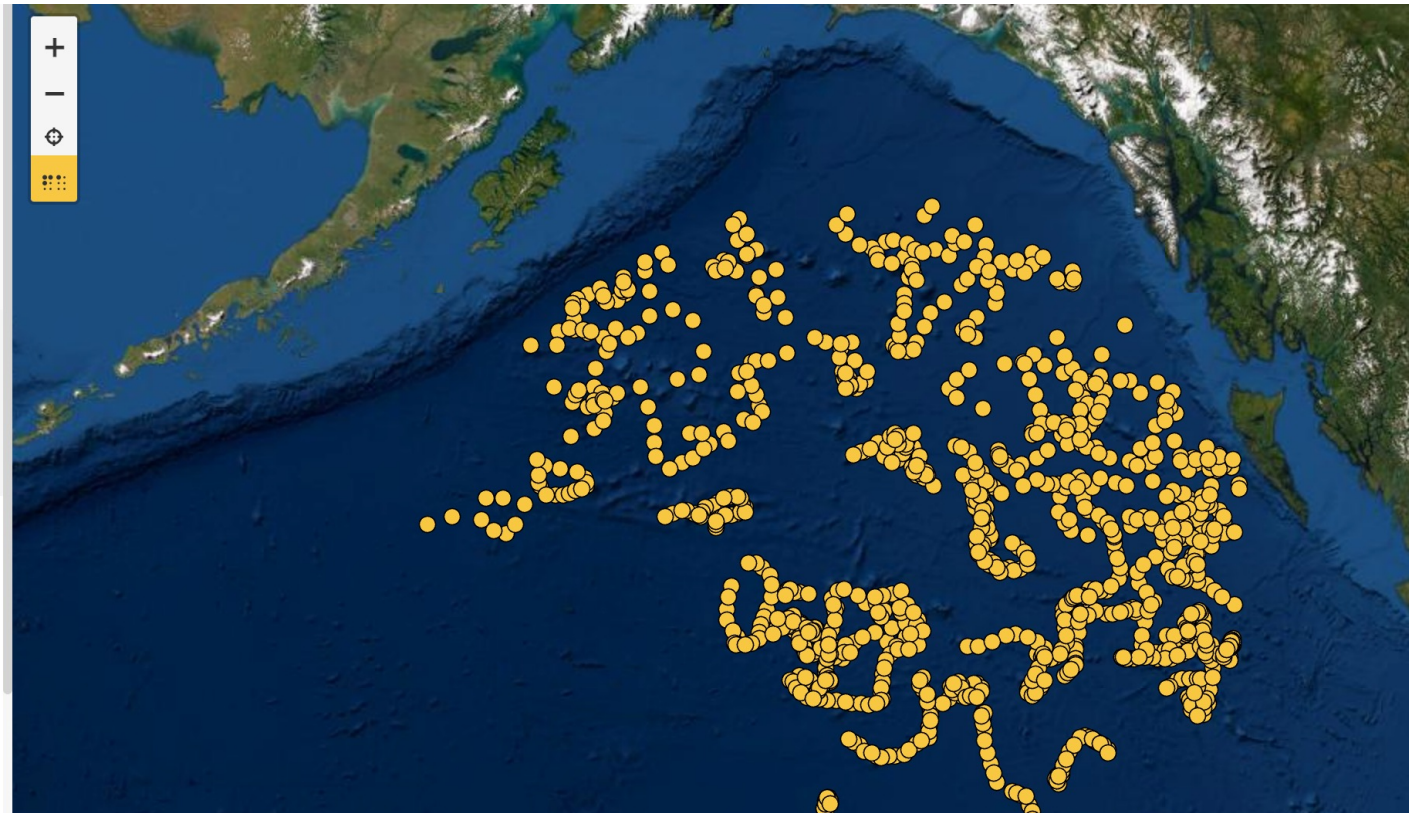
PSAL 1091

TEMP 1091

TEMP_CNDC 2

Deployment year

2022 221



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.

Minimum deepest pressure km
0 6

Country
CANADA

Parameters

<input type="checkbox"/>	PRES	1091
<input type="checkbox"/>	PSAL	1091
<input type="checkbox"/>	TEMP	1091
<input type="checkbox"/>	TEMP_CNDC	2

Deployment year

<input type="checkbox"/>	2022	221
<input type="checkbox"/>	2021	261
<input type="checkbox"/>	2020	103

1,091 cycles selected

Reset View Export

Choose a file format

CSV Copernicus NetCDF Copernicus NetCDF Argo original

Options

Data mode
Delayed-Mode

Simplified Expert

Data quality code
good

Parameter code
Dissolved oxygen

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.

The screenshot displays the Argovis dashboard interface. On the left is a settings panel with the following sections:

- Display options:**
 - Choose Projection: Web mercator
 - Profiles in 3 days, glob... (3 day window end date): 12/13/2022
 - Include realtime:
 - Show only BGC:
 - Show only Deep:
- Box selection:**
 - Selection Date Range: 12/01/2022 - 12/15/2022
 - Pressure range [dbar]: 0 to 2000
- Search:** Search platform #

The main map shows the North Atlantic Ocean with numerous float markers. A tooltip for a selected marker (ID 6902800_163) displays the following information:

```
Hello, i'm 6902800_163!  
lon: 47.440 W  
lat: 55.399 N  
cycle: 163  
date: December 10, 2022 2:18 AM  
data mode: R  
To bgc profile page  
To bgc platform page (beta)  
Position history
```

Red arrows point to different marker types on the map:

- Yellow markers = Core-Argo floats
- Green markers = BGC-Argo floats
- Black markers = deep-Argo floats

A white box with red text says: "Click on a marker to explore the float's data". A red arrow points from this box to a marker on the map.

A red arrow points from the text "Search for your float by ID #" to the "Search platform #" field.



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