

# Access for Subsurface Float Dataset – Instructions

To access subsurface float data, please visit the NOAA GDP ERDDAP webpage at [https://erddap.aoml.noaa.gov/gdp/erddap/tabledap/RAFOS\\_SOFAR\\_Floats.html](https://erddap.aoml.noaa.gov/gdp/erddap/tabledap/RAFOS_SOFAR_Floats.html). Here, you will see the list of possible variables. Examples include: Experiment\_Name, floatID, trajectoryID, date ranges, temperature data, pressure data, etc.

1. To begin, select “Uncheck All” and clear the pre-set time parameters.

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Dataset Title: **Subsurface Floats**

Institution: NOAA/AOML & WHOI (Dataset ID: RAFOS\_SOFAR\_Floats)

Information: [Summary](#) | [License](#) | [FGDC](#) | [ISO 19115](#) | [Metadata](#) | [Background](#) | [Subset](#) | [Files](#) | [Make a graph](#)

Variable  Check All  **Uncheck All**

Variable	Optional Constraint #1	Optional Constraint #2	Minimum or a List of Values
<input type="checkbox"/> Experiment_Name	>=	<=	
<input type="checkbox"/> trajectoryID	>=	<=	
<input type="checkbox"/> floatID (float serial number)	=	<=	
<input type="checkbox"/> float_type	=	<=	
<input type="checkbox"/> time (UTC)	>=	<=	1972-09-28T00:00:00Z
<input type="checkbox"/> latitude (degrees_north)	>=	<=	-65.782
<input type="checkbox"/> longitude (degrees_east)	>=	<=	-135.647
<input type="checkbox"/> deploy_date (Deployment date and time, UTC)	>=	<=	
<input type="checkbox"/> deploy_lat (degrees_north)	>=	<=	
<input type="checkbox"/> deploy_lon (degrees_east)	>=	<=	
<input type="checkbox"/> surface_date (Surface date and time, UTC)	>=	<=	
<input type="checkbox"/> surface_lat (Surface latitude, degrees_north)	>=	<=	
<input type="checkbox"/> surface_lon (degrees_east)	>=	<=	
<input type="checkbox"/> lon360 (Longitude, degrees_east)	>=	<=	0.0
<input type="checkbox"/> pressure (sea water pressure, decibar)	>=	<=	-25.7
<input type="checkbox"/> temperature (degree_Celsius)	>=	<=	-26.279
<input type="checkbox"/> ve (Eastward velocity, m/s)	>=	<=	-2.817
<input type="checkbox"/> vn (Northward velocity, m/s)	>=	<=	-3.1256
<input type="checkbox"/> Institution	>=	<=	

2. Once all boxes are unchecked, select your desired variable(s). For example, if you are interested in time, latitude, longitude, pressure, and temperature, you would check the following selections:

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Variable  Check All  Uncheck All

Variable	Optional Constraint #1	Optional Constraint #2	Minimum or a List of Values
<input type="checkbox"/> Experiment_Name	>=	<=	
<input type="checkbox"/> trajectoryID	>=	<=	
<input checked="" type="checkbox"/> floatID (float serial number)	=	<=	
<input type="checkbox"/> float_type	=	<=	
<input checked="" type="checkbox"/> time (UTC)	>=	<=	1972-09-28T00:00:00Z
<input checked="" type="checkbox"/> latitude (degrees_north)	>=	<=	-65.782
<input checked="" type="checkbox"/> longitude (degrees_east)	>=	<=	-135.647
<input type="checkbox"/> deploy_date (Deployment date and time, UTC)	>=	<=	
<input type="checkbox"/> deploy_lat (degrees_north)	>=	<=	
<input type="checkbox"/> deploy_lon (degrees_east)	>=	<=	
<input type="checkbox"/> surface_date (Surface date and time, UTC)	>=	<=	
<input type="checkbox"/> surface_lat (Surface latitude, degrees_north)	>=	<=	
<input type="checkbox"/> surface_lon (degrees_east)	>=	<=	
<input type="checkbox"/> lon360 (Longitude, degrees_east)	>=	<=	0.0
<input checked="" type="checkbox"/> pressure (sea water pressure, decibar)	>=	<=	-25.7
<input checked="" type="checkbox"/> temperature (degree_Celsius)	>=	<=	-26.279
<input type="checkbox"/> ve (Eastward velocity, m/s)	>=	<=	-2.817
<input type="checkbox"/> vn (Northward velocity, m/s)	>=	<=	-3.1256
<input type="checkbox"/> Institution	>=	<=	

Select desired variables.

\*\*Please note: If you desire a specific float ID, coordinates, and/or a time parameter, you must enter these values in the “Optional Constraint” boxes to the right of each field. \*\*

For example, to search for float ID 1021, you would type the float ID surrounded by double quotes (“1021”) under Optional Constraint #1 to the right of floatID. Make sure to change the operand sign from “>=” to “=”.

Additionally, if you are interested in searching for float ID 1021 transmissions during the month of January 2012, you would enter two constraints for the time variable. For “Optional Constraint #1”, enter the starting date in YYYY-MM-DD format, without quotes. Then, list the ending date in the “Optional Constraint #2” box.

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Variable  Check All  Uncheck All

Variable	Optional Constraint #1	Optional Constraint #2	Minimum or a List of Values
<input type="checkbox"/> Experiment_Name	>=	<=	
<input type="checkbox"/> trajectoryID	>=	<=	
<input checked="" type="checkbox"/> floatID (float serial number)	= *1021	<=	
<input type="checkbox"/> float_type	>=	<=	
<input checked="" type="checkbox"/> time (UTC)	>= 2012-01-01	<= 2012-01-31	1972-09-28T00:00:00Z
<input checked="" type="checkbox"/> latitude (degrees_north)	>=	<=	-65.782
<input checked="" type="checkbox"/> longitude (degrees_east)	>=	<=	-135.647
<input type="checkbox"/> deploy_date (Deployment date and time, UTC)	>=	<=	
<input type="checkbox"/> deploy_lat (degrees_north)	>=	<=	
<input type="checkbox"/> deploy_lon (degrees_east)	>=	<=	
<input type="checkbox"/> surface_date (Surface date and time, UTC)	>=	<=	
<input type="checkbox"/> surface_lat (Surface latitude, degrees_north)	>=	<=	
<input type="checkbox"/> surface_lon (degrees_north)	>=	<=	
<input type="checkbox"/> lon360 (Longitude, degrees_east)	>=	<=	0.0
<input checked="" type="checkbox"/> pressure (sea water pressure, decibar)	>=	<=	-25.7
<input checked="" type="checkbox"/> temperature (degree_Celsius)	>=	<=	-26.279

3. OPTIONAL: Once all desired variables have been chosen, for best output results, under “Server-side Functions”, order variables by “time”. In doing so, the output will be displayed by time (chronologically).

**WARNING:** Using the “orderBy” feature on large ERDDAP requests may trigger a HTTP 413 “outOfMemoryError” response when you complete step 6. If this error appears, we suggest that you divide your original data request into multiple smaller requests, or resubmit your original request without the “orderBy” feature.

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Variable  Check All  Uncheck All

Variable	Optional Constraint #1	Optional Constraint #2	Minimum or a List of Values
<input type="checkbox"/> Experiment_Name	>=	<=	
<input type="checkbox"/> trajectoryID	>=	<=	
<input checked="" type="checkbox"/> floatID (float serial number)	= *1021	<=	
<input type="checkbox"/> float_type	>=	<=	
<input checked="" type="checkbox"/> time (UTC)	>= 2012-01-01	<= 2012-01-31	1972-09-28T00:00:00Z
<input checked="" type="checkbox"/> latitude (degrees_north)	>=	<=	-65.782
<input checked="" type="checkbox"/> longitude (degrees_east)	>=	<=	-135.647
<input type="checkbox"/> deploy_date (Deployment date and time, UTC)	>=	<=	
<input type="checkbox"/> deploy_lat (degrees_north)	>=	<=	
<input type="checkbox"/> deploy_lon (degrees_east)	>=	<=	
<input type="checkbox"/> surface_date (Surface date and time, UTC)	>=	<=	
<input type="checkbox"/> surface_lat (Surface latitude, degrees_north)	>=	<=	
<input type="checkbox"/> surface_lon (degrees_north)	>=	<=	
<input type="checkbox"/> lon360 (Longitude, degrees_east)	>=	<=	0.0
<input checked="" type="checkbox"/> pressure (sea water pressure, decibar)	>=	<=	-25.7
<input checked="" type="checkbox"/> temperature (degree_Celsius)	>=	<=	-26.279
<input type="checkbox"/> ve (Eastward velocity, m/s)	>=	<=	-2.817
<input type="checkbox"/> vn (Northward velocity, m/s)	>=	<=	-3.1256
<input type="checkbox"/> Institution	>=	<=	
<input type="checkbox"/> Principal_Investigator	>=	<=	

Server-side Functions

distinct()

orderBy: (\*)time

4. To select the desired output format, select from the options within “File type”. Format options include comma separated (.csv), MATLAB (.mat), PDF (.pdf), ASCII (.asc), etc.

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Variable	Optional Constraint #1	Optional Constraint #2	Minimum or a List of Values
<input type="checkbox"/> Experiment_Name	>=	<=	
<input type="checkbox"/> trajectoryID	>=	<=	
<input checked="" type="checkbox"/> floatID (float serial number)	=	<=	"1021"
<input type="checkbox"/> float_type	>=	<=	
<input checked="" type="checkbox"/> time (UTC)	>=	<=	1972-09-28T00:00:00Z 2019-01-23T18:
<input checked="" type="checkbox"/> latitude (degrees_north)	>=	<=	-65.782 76.515251
<input checked="" type="checkbox"/> longitude (degrees_east)	>=	<=	-135.647 187.803
<input type="checkbox"/> deploy_date (Deployment date and time, UTC)	>=	<=	
<input type="checkbox"/> deploy_lat (degrees_north)	>=	<=	
<input type="checkbox"/> deploy_lon (degrees_east)	>=	<=	
<input type="checkbox"/> surface_date (Surface date and time, UTC)	>=	<=	
<input type="checkbox"/> surface_lat (Surface latitude, degrees_north)	>=	<=	
<input type="checkbox"/> surface_lon (degrees_north)	>=	<=	
<input type="checkbox"/> lon360 (Longitude, degrees_east)	>=	<=	0.0 359.999601
<input checked="" type="checkbox"/> pressure (sea water pressure, decibar)	>=	<=	-25.7 4805.44
<input checked="" type="checkbox"/> temperature (degree_Celsius)	>=	<=	-26.279 44.85
<input type="checkbox"/> ve (Eastward velocity, m/s)	>=	<=	-2.817 4.3694
<input type="checkbox"/> vn (Northward velocity, m/s)	>=	<=	-3.1256 3.689
<input type="checkbox"/> Institution	>=	<=	
<input type="checkbox"/> Principal_Investigator	>=	<=	

**Server-side Functions**

distinct()

orderBy: (\*)time

**File type:** [\(more information\)](#)

.html Table - View a UTF-8 .html web page with the data in a table. Times are ISO 8601 strings.

Just generate the URL: [https://erddap.aoml.noaa.gov/gdp/erddap/tabledap/RAFOS\\_SOFAR\\_Flc](https://erddap.aoml.noaa.gov/gdp/erddap/tabledap/RAFOS_SOFAR_Flc)

[Documentation](#) / [Bypass this form](#)

**Submit** (Please be patient. It may take a while to get the data.)

5. Once you have entered the desired information and chosen the output file type, click “Submit” to receive the data.