

Real-time access for all drifting buoy data in a region

To plot real-time data from drifting buoys, please visit the NOAA GDP ERDDAP webpage at https://erddap.aoml.noaa.gov/gdp/erddap/tabledap/OSMC_RealTime.graph. Here, you will see the list of possible variables. Examples include: date ranges, sst data, slp data, etc.

** Please note, the real-time dataset linked above is hosted on the NOAA GDP ERDDAP as a remote dataset. To plot the source dataset, please visit the NOAA OSMC ERDDAP at http://osmc.noaa.gov/erddap/tabledap/OSMC_30day.graph. **

1. To view a specific region, please start by selecting your desired platform (i.e., Drifting Buoys, XBT's, ARGO Floats, etc.). Under "Constraints", select "platform_type" from the drop-down menu. A second drop-down menu will appear below "Optional Constraint #1" and "Optional Constraint #2"; select the platform here.

ERDDAP > tabledap > Make A Graph

Dataset Title: **OSMC 90 day RT data**
Institution: OSMC (Dataset ID: OSMC_RealTime)
Range: longitude = -180.0 to 180.0°E, latitude = -89.0 to 89.0°N
Information: Summary | License | FGDC | ISO 19115 | Metadata | Background | Subset | Data Access Form

Graph Type: markers
X Axis: longitude
Y Axis: latitude
Color: observation_depth

Click on the map to specify a new center point.
Zoom: Out 8x | Out 2x | Out | Data | In | In 2x | In 8x
Time range: 7 day(s)

Constraints
time: 2023-08-16T00:00:00Z to 2023-08-23T00:00:00Z
platform_type (circled in red)

Optional Constraint #1
"DRIFTING BUOYS (GENERIC)" (indicated by a red arrow)

Optional Constraint #2
"DRIFTING BUOYS (GENERIC)" (indicated by a red arrow)

Server-side Functions
distinct()

Graph Settings
Marker Type: Filled Square | Size: 5
Color: [Color palette]
Color Bar: [Color bar]
Continuity: [Continuity]
Scale: [Scale]
Minimum: [Minimum] | Maximum: [Maximum] | N Sections: [N Sections]
Draw land mask: [Draw land mask]
Y Axis Minimum: [Y Axis Minimum] | Maximum: [Maximum] | Ascending: [Ascending]

Redraw the Graph (Please be patient. It may take a while to get the data.)

Optional:
Then set the File Type: .htmlTable | (File Type information)

2. Once you have selected "Drifting Buoys" as your desired platform, you'll then need to select the desired date range from which you'd like to see data. Next to the preselected time constraint, modify the start and end dates below "Optional Constraint #1" and "Optional Constraint #2". Use the date format YYYY-MM-DD, with no quotations.

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Graph Type: markers
 X Axis: longitude
 Y Axis: latitude
 Color: observation_depth

Constraints
 time: [dropdown]
 platform_type: [dropdown]

Optional Constraint #1
 time: [dropdown] [operator] 2023-08-16T00:00:00Z [operator] 2023-08-23T00:00:00Z
 platform_type: [dropdown] "DRIFTING BUOYS (C)"

Optional Constraint #2
 [dropdown] [operator] [dropdown] [operator] [dropdown]

Server-side Functions
 distinct() [dropdown] [dropdown]

Graph Settings
 Marker Type: Filled Square Size: 5
 Color: [color palette]
 Color Bar: [dropdown] Continuity: [dropdown] Scale: [dropdown]
 Minimum: [input] Maximum: [input] N Sections: [dropdown]
 Draw land mask: [dropdown] Y Axis Minimum: [input] Maximum: [input] Ascending: [dropdown]

Redraw the Graph (Please be patient. It may take a while to get the data.)

Optional:
 Then set the File Type: .htmlTable (File Type information)

3. Before specifying the coordinates of interest, change the X Axis variable from “longitude” to “lon360”, by selecting “lon360” from the dropdown menu. Instead of plotting data points’ longitudes ranging from 0 to 180 degrees, lon360 converts the values to a range of 0 to 360 degrees.

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Graph Type: markers
 X Axis: lon360
 Y Axis: latitude
 Color: observation_depth

Constraints
 time: [dropdown]
 platform_type: [dropdown]

Optional Constraint #1
 time: [dropdown] [operator] 2023-08-16T00:00:00Z [operator] 2023-08-23T00:00:00Z
 platform_type: [dropdown] "DRIFTING BUOYS (C)"

Optional Constraint #2
 [dropdown] [operator] [dropdown] [operator] [dropdown]

Server-side Functions
 distinct() [dropdown] [dropdown]

Graph Settings
 Marker Type: Filled Square Size: 5
 Color: [color palette]
 Color Bar: [dropdown] Continuity: [dropdown] Scale: [dropdown]
 Minimum: [input] Maximum: [input] N Sections: [dropdown]
 Draw land mask: [dropdown] Y Axis Minimum: [input] Maximum: [input] Ascending: [dropdown]

Redraw the Graph (Please be patient. It may take a while to get the data.)

Optional:
 Then set the File Type: .htmlTable (File Type information)

4. Next, you can enter the desired longitude range and latitude range by adding “longitude” and “lon360” as additional constraints. For example, to obtain data for all buoys that entered between 5N and 25N, and between 050W and 080W, you would enter the following: latitude “>=” 5 “<=” 25 and lon360 “>=” 280 “<=” 310.

****Please Note:** “lon360” values range between 0 and 360. Therefore, you must subtract western longitude values from 360 to obtain the correctly formatted value. Latitudinal values range between -90 and 90. ******

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 Institution: OSMC (Dataset ID: OSMC_RealTime)
 Range: longitude = -180.0 to 180.0°E, latitude = -89.0 to 89.0°N
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Graph Type: markers
 X Axis: lon360
 Y Axis: latitude
 Color: observation_depth

Click on the map to specify a new center point.
 Zoom: [Out 8x] [Out 2x] [Out] [Data] [In] [In 2x] [In 8x]
 Time range: 7 day(s)

Constraints	Optional Constraint #1	Optional Constraint #2
time	>= 2023-08-16T00:00:00Z	<= 2023-08-23T00:00:00Z
platform_type	= "DRIFTING BUOYS (C"	
latitude	>= 5	<= 25
lon360	>= 280	<= 310

Server-side Functions
 distinct()

Graph Settings
 Marker Type: Filled Square Size: 5
 Color: [Color palette]
 Color Bar: Continuity: Scale:
 Minimum: Maximum: N Sections:
 Draw land mask: Maximum: Ascending
 Y Axis Minimum: Maximum: Ascending

Redraw the Graph (Please be patient. It may take a while to get the data.)

Optional:
 Then set the File Type: .htmlTable (File Type information)
 and Download the Data or an Image

5. Next, select the variable to be graphed. “observation_depth” is preselected but you can change this. For example, if you would like to plot drifters shaded in with sea surface temperature values, select sst.

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Graph Type: markers
 X Axis: lon360
 Y Axis: latitude
 Color: sst

Click on the map to specify a new center point.
 Zoom: [Out 8x] [Out 2x] [Out] [Data] [In] [In 2x] [In 8x]
 Time range: 7 day(s)

Constraints	Optional Constraint #1	Optional Constraint #2
time	>= 2023-08-16T00:00:00Z	<= 2023-08-23T00:00:00Z
platform_type	= "DRIFTING BUOYS (C"	
latitude	>= 5	<= 25
lon360	>= 280	<= 310

Server-side Functions
 distinct()

Graph Settings
 Marker Type: Filled Square Size: 5
 Color: [Color palette]
 Color Bar: Continuity: Scale:
 Minimum: Maximum: N Sections:
 Draw land mask: Maximum: Ascending
 Y Axis Minimum: Maximum: Ascending

Redraw the Graph (Please be patient. It may take a while to get the data.)

Optional:
 Then set the File Type: .htmlTable (File Type information)
 and Download the Data or an Image

6. Finally, redraw the graph to generate a new plot of your desired selections.

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Graph Type: markers

X Axis: lon360

Y Axis: latitude

Color: sst

Constraints

Constraints	Optional Constraint #1	Optional Constraint #2
time	>= 2023-08-16T00:00:00Z	<= 2023-08-23T00:00:00Z
platform_type	= DRIFTING BUOYS (C	
latitude	>= 5	<= 25
lon360	>= 280	<= 310

Server-side Functions

distinct() ()

Graph Settings

Marker Type: Filled Square Size: 5

Color: [Color Selection]

Continuity: [Continuity Selection] Scale: [Scale Selection]

Minimum: [Minimum Selection] Maximum: [Maximum Selection] N Sections: [N Sections Selection]

Draw land mask: [Draw land mask Selection]

Y Axis Minimum: [Y Axis Minimum Selection] Maximum: [Maximum Selection] Ascending: [Ascending Selection]

Redraw the Graph (Please be patient. It may take a while to get the data.)

Optional:
Then set the File Type: .htmlTable (File Type information)
and Download the Data or an Image

Click on the map to specify a new center point.

Zoom: Out 8x | Out 2x | Out | Data | In | In 2x | In 8x

Time range: 7 day(s)

7. You should now see all drifters within your region of interest, between your specified date range! To download the dataset plotted on the graph, select your desired file format from the dropdown menu and select “Download the Data or an Image” or copy the URL generated.

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Institution: OSMC (Dataset ID: OSMC_RealTime)

Range: longitude = -180.0 to 180.0°E, latitude = -89.0 to 89.0°N

Information: [Summary](#) | [License](#) | [FGDC](#) | [ISO 19115](#) | [Metadata](#) | [Background](#) | [Subset](#) | [Data Access Form](#)

Graph Type: markers

X Axis: lon360

Y Axis: latitude

Color: sst

Constraints

Constraints	Optional Constraint #1	Optional Constraint #2
time	>= 2023-08-16T00:00:00Z	<= 2023-08-23T00:00:00Z
platform_type	= DRIFTING BUOYS (G	
latitude	>= 5	<= 25
lon360	>= 280	<= 310

Server-side Functions

distinct() ()

Graph Settings

Marker Type: Filled Square Size: 5

Color: [Color Selection]

Continuity: [Continuity Selection] Scale: [Scale Selection]

Minimum: [Minimum Selection] Maximum: [Maximum Selection] N Sections: [N Sections Selection]

Y Axis Minimum: [Y Axis Minimum Selection] Maximum: [Maximum Selection] Ascending: [Ascending Selection]

Redraw the Graph (Please be patient. It may take a while to get the data.)

Optional:
Then set the File Type: .htmlTable (File Type information)
and **Download the Data or an Image**
or view the URL: https://erddap.soml.noaa.gov/gdp/erddap/tabledap/OSMC_RealTime.h
(Documentation / Bypass this form)

X range: Zoom In | Zoom Out

Time range: 7 day(s)