

Plot quality controlled

interpolated drifting buoy data

To plot quality controlled 6-hourly interpolated data from drifting buoys, please visit the NOAA GDP ERDDAP webpage at https://erddap.aoml.noaa.gov/gdp/erddap/tabledap/drifter_6hour_qc.graph . Here, you will see the list of possible variables. Examples include: deployment date, death date, drogue loss, sst data, etc.

If you would like to plot quality controlled *hourly* interpolated data from drifting buoys, please follow the hourly dataset webpage at https://erddap.aoml.noaa.gov/gdp/erddap/tabledap/drifter_hourly_qc.graph .

1. To begin, select the graph type and variable to be plotted.

The screenshot shows the ERDDAP 'Make A Graph' interface. At the top, it says 'ERDDAP > tabledap > Make A Graph'. Below that, the dataset title is 'Global Drifter Program - 6 Hour Interpolated QC Drifter Data'. The X-axis is set to 'longitude' and the Y-axis is set to 'latitude'. The color is set to 'WMO'. There are two optional constraint fields, both currently empty. The graph settings show 'Marker Type' as 'Filled Square' and 'Size' as '5'. A map on the right shows the distribution of drifters in the Atlantic Ocean. A legend below the map identifies the data as 'World Meteorological Organization buoy identification number'.

2. After selecting the desired variable, determine how you would like to isolate the dataset to be plotted.

3a. If you wish to plot interpolated drifter data by ID number, either enter the AOML Drifter ID, or the WMO number, in the respective Optional Constraint field.

Each entry should contain double quotes (“...”) and the operator for this constraint should be set to “=~”. The operator selection is found to the left of the Optional Constraint field. If you are interested in data from multiple drifters, ensure the identification numbers are separated by the pipe, or bar, symbol (|) and within double quotes (“...”).

For example, a single drifter should appear as: =~ "300234063941310" or =~ "4101564", depending if you reference the AOML ID, or the WMO number. For multiple drifters, the entry should appear as: =~ "300234063941310|300234063940950" or =~ "4101564|4101562".

****Please Note: There are no spaces between the identification numbers and the pipe or bar symbol (|).****

ERDDAP > tabledap > Make A Graph

Dataset Title: **Global Drifter Program - 6 Hour Interpolated QC Drifter Data**
 Institution: NOAA Atlantic Oceanographic and Meteorological Laboratory (Dataset ID: drifter_6hour_gc)
 Range: longitude = -179.999 to 180.0°E, latitude = -78.305 to 89.984°N, time = 1979-02-15T00:00:00Z to 2023-03-06T00:00:00Z
 Information: [Summary](#) | [License](#) | [FGDC](#) | [ISO 19115](#) | [Metadata](#) | [Background](#) | [Subset](#) | [Data Access Form](#) | [Files](#)

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

Constraints

Constraints	Optional Constraint #1	Optional Constraint #2
ID	"63941310(63940950"	

Server-side Functions

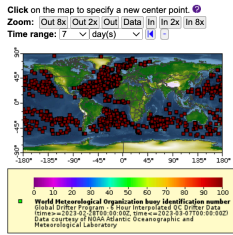
distinct()

Graph Settings

Marker Type: Filled Square Size: 5
 Color: 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](#)
 or view the URL: https://erddap.aoml.noaa.gov/gdp/erddap/tabledap/drifter_6hour_gc.html
 (Documentation / Bypass this form)



OR

ERDDAP > tabledap > Make A Graph

Dataset Title: **Global Drifter Program - 6 Hour Interpolated QC Drifter Data**
 Institution: NOAA Atlantic Oceanographic and Meteorological Laboratory (Dataset ID: drifter_6hour_gc)
 Range: longitude = -179.999 to 180.0°E, latitude = -78.305 to 89.984°N, time = 1979-02-15T00:00:00Z to 2023-03-06T00:00:00Z
 Information: [Summary](#) | [License](#) | [FGDC](#) | [ISO 19115](#) | [Metadata](#) | [Background](#) | [Subset](#) | [Data Access Form](#) | [Files](#)

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

Constraints

Constraints	Optional Constraint #1	Optional Constraint #2
WMO	"4101564(41101562"	

Server-side Functions

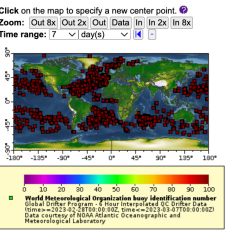
distinct()

Graph Settings

Marker Type: Filled Square Size: 5
 Color: 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](#)
 or view the URL: https://erddap.aoml.noaa.gov/gdp/erddap/tabledap/drifter_6hour_gc.html
 (Documentation / Bypass this form)



3b. If you wish to plot interpolated drifter data for all deployments at a given location, enter the coordinates of the desired deployment area into the deploy_lat and deploy_lon Operational Constraint fields.

For example, to obtain data for all buoys deployed between 25N and 26N, and between 079W and 080W, you would enter the following: deploy_lat ">=" 25 "<=" 26 and deploy_lon ">=" -80 "<=" -79.

Please Note: Longitudinal values range between -180 and 180. Therefore, you must include a negative sign for western longitude values to obtain the correctly formatted value.

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ERDDAP > tabledap > Make A Graph

Dataset Title: **Global Drifter Program - 6 Hour Interpolated QC Drifter Data**

Institution: NOAA Atlantic Oceanographic and Meteorological Laboratory (Dataset ID: drifter_6hour_qc)

Range: longitude = -179.999 to 180.0°E, latitude = -78.305 to 89.984°N, time = 1979-02-15T00:00:00Z to 2023-03-06T00:00:00Z

Information: Summary | License | FGDC | ISO 19115 | Metadata | Background # | Subset | Data Access Form | Files

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

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

Constraints	Optional Constraint #1	Optional Constraint #2
deploy_lat	>= 25	<= 26
deploy_lon	>= -80	<= -79
	>=	<=
	>=	<=
	>=	<=

Server-side Functions
 distinct()

Graph Settings
Marker Type: Filled Square Size: 5
Color:

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

Optional:
Then set the File Type: (File Type information)
and / Download the Data or an Image
or view the URL: https://erddap.aoml.noaa.gov/gdp/erddap/tabledap/drifter_6hour_qc.html
(Documentation / Bypass this form)

3c. If you wish to plot interpolated drifter data for all drifters that have entered a given area, enter coordinates for the desired area into the longitude and latitude Operational Constraint fields.

For example, to obtain data for all buoys that have passed between 019E and 025E, and between 36S and 42S, you would enter the following: latitude “>=” -42 “<=” -36 and longitude “>=” 19 “<=” 25.

****Please Note: Longitudinal values range between -180 and 180. Therefore, you must include a negative sign for western longitude values to obtain the correctly formatted value.****

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Dataset Title: **Global Drifter Program - 6 Hour Interpolated QC Drifter Data**

Institution: NOAA Atlantic Oceanographic and Meteorological Laboratory (Dataset ID: drifter_6hour_qc)

Range: longitude = -179.999 to 180.0°E, latitude = -78.305 to 89.984°N, time = 1979-02-15T00:00:00Z to 2023-03-06T00:00:00Z

Information: Summary | License | FGDC | ISO 19115 | Metadata | Background # | Subset | Data Access Form | Files

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

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

Constraints	Optional Constraint #1	Optional Constraint #2
latitude	>= -42	<= -36
longitude	>= 19	<= 25
	>=	<=
	>=	<=
	>=	<=

Server-side Functions
 distinct()

Graph Settings
Marker Type: Filled Square Size: 5
Color:

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

Optional:
Then set the File Type: (File Type information)
and / Download the Data or an Image
or view the URL: https://erddap.aoml.noaa.gov/gdp/erddap/tabledap/drifter_6hour_qc.html
(Documentation / Bypass this form)

3d. If you wish to plot interpolated drifter data for all drifters within a particular time period, enter the desired beginning and end dates into the time (UTC) Operational Constraint fields.

For example, to obtain data for all buoys transmitting data between 1 January, 2010 and 14 February, 2016, you would enter the following: time (UTC) ”>=” 2010-01-01 “<=” 2016-02-14.

ERDDAP > tabledap > Make A Graph

Dataset Title: **Global Drifter Program - 6 Hour Interpolated QC Drifter Data**

Institution: NOAA Atlantic Oceanographic and Meteorological Laboratory (Dataset ID: drifter_6hour_qc)

Range: longitude = -179.999 to 180.0°E, latitude = -78.305 to 89.984°N, time = 1979-02-15T00:00:00Z to 2023-03-06T00:00:00Z

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

Graph Type: markers

X Axis: longitude

Y Axis: latitude

Color: time

Optional Constraint #1: time >= 2010-01-01

Optional Constraint #2: time <= 2016-02-14

Server-side Functions: distinct

Graph Settings: Marker Type: Filled Square, Size: 5, Color: [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]

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 days

World Meteorological Organization buoy identification number
Global Drifter Program - 6 Hour Interpolated QC Drifter Data
Time = 2013-03-06T00:00:00Z; time = 2013-03-06T00:00:00Z
Data courtesy of NOAA Atlantic Oceanographic and Meteorological Laboratory

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.aoml.noaa.gov/gdp/erddap/tabledap/drifter_6hour_qc.html (Documentation / Bypass this form)

3e. If you wish to combine variables and obtain interpolated drifter data for all drifters within a particular time period that were deployed at a precise location, enter the desired beginning and end dates into the time (UTC) Operational Constraint fields, along with the desired deployment area into the deploy_lat and deploy_lon Operational Constraint fields.

For example, to obtain data for all buoys deployed between 25N and 26N, and between 079W and 080W, between 1 January, 2010 and 14 February, 2016, you would enter the following: deploy_lat " >= " 25 " <= " 26 and deploy_lon " >= " -80 " <= " -79 AND time (UTC) " >= " 2010-01-01 " <= " 2016-02-14.

ERDDAP > tabledap > Make A Graph

Dataset Title: **Global Drifter Program - 6 Hour Interpolated QC Drifter Data**

Institution: NOAA Atlantic Oceanographic and Meteorological Laboratory (Dataset ID: drifter_6hour_qc)

Range: longitude = -179.999 to 180.0°E, latitude = -78.305 to 89.984°N, time = 1979-02-15T00:00:00Z to 2023-03-06T00:00:00Z

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

Graph Type: markers

X Axis: longitude

Y Axis: latitude

Color: time

Optional Constraint #1: time >= 2010-01-01

Optional Constraint #2: time <= 2016-02-14

Optional Constraint #3: deploy_lat >= 25

Optional Constraint #4: deploy_lat <= 26

Optional Constraint #5: deploy_lon >= -80

Optional Constraint #6: deploy_lon <= -79

Server-side Functions: distinct

Graph Settings: Marker Type: Filled Square, Size: 5, Color: [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]

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 days

World Meteorological Organization buoy identification number
Global Drifter Program - 6 Hour Interpolated QC Drifter Data
Time = 2013-03-06T00:00:00Z; time = 2013-03-06T00:00:00Z
Data courtesy of NOAA Atlantic Oceanographic and Meteorological Laboratory

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.aoml.noaa.gov/gdp/erddap/tabledap/drifter_6hour_qc.html (Documentation / Bypass this form)

4. OPTIONAL: Once all desired variables have been chosen, for best output results, under "Server-side Functions", order variables by "ID or WMO" and "time". By doing so, the output will be displayed by identification number and time (chronologically).

WARNING: Using the “orderBy” feature on large ERDDAP graph requests may trigger a HTTP 413 “outOfMemoryError” response when you complete step 5. 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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ERDDAP > tabledap > Make A Graph

Dataset Title: [Global Drifter Program - 6 Hour Interpolated QC Drifter Data](#) [3](#) [333](#)
 Institution: NOAA Atlantic Oceanographic and Meteorological Laboratory (Dataset ID: drifter_6hour_qc)
 Range: longitude = -179.999 to 180.0°E, latitude = -78.305 to 89.984°N, time = 1979-02-15T00:00:00Z to 2023-03-06T00:00:00Z
 Information: [Summary](#) | [License](#) | [FGDC](#) | [ISO 19115](#) | [Metadata](#) | [Background](#) | [Subset](#) | [Data Access Form](#) | [Files](#)

Graph Type: **markers**
 X Axis: longitude
 Y Axis: latitude
 Color: time

Constraints
 time: >= 2010-01-01 <= 2016-02-14
 deploy_lat: >= 25 <= 28
 deploy_lon: >= -80 <= -79

Optional Constraint #1
 time: >= 2010-01-01 <= 2016-02-14
 deploy_lat: >= 25 <= 28
 deploy_lon: >= -80 <= -79

Optional Constraint #2
 time: >= 2010-01-01 <= 2016-02-14
 deploy_lat: >= 25 <= 28
 deploy_lon: >= -80 <= -79

Server-side Functions
 distinct()
 orderBy: (*ID) time

Graph Settings
 Marker Type: Filled Square
 Color:
 Color Bar: Minimum: Maximum: N Sections:
 Draw land mask:
 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: [\(File Type information\)](#)
 and [Download the Data or an Image](#)
 or view the URL: https://erddap.aoml.noaa.gov/gdp/erddap/tabledap/drifter_6hour_qc.html
[\(Documentation / Bypass this form\)](#)

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)

World Meteorological Organization buoy Identification number
 Global Drifter Program - 6 Hour Interpolated QC Drifter Data
 time=2010-01-01T00:00:00Z, time=2013-03-06T00:00:00Z
 Data courtesy of NOAA Atlantic Oceanographic and Meteorological Laboratory

5. To preview the plot from the desired selections, click “Redraw the Graph”. After doing this, you will see the plot appear in the upper right corner of the page.

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ERDDAP > tabledap > Make A Graph

Dataset Title: [Global Drifter Program - 6 Hour Interpolated QC Drifter Data](#) [3](#) [333](#)
 Institution: NOAA Atlantic Oceanographic and Meteorological Laboratory (Dataset ID: drifter_6hour_qc)
 Range: longitude = -179.999 to 180.0°E, latitude = -78.305 to 89.984°N, time = 1979-02-15T00:00:00Z to 2023-03-06T00:00:00Z
 Information: [Summary](#) | [License](#) | [FGDC](#) | [ISO 19115](#) | [Metadata](#) | [Background](#) | [Subset](#) | [Data Access Form](#) | [Files](#)

Graph Type: **markers**
 X Axis: longitude
 Y Axis: latitude
 Color: time

Constraints
 time: >= 2010-01-01T00:00:00Z <= 2016-02-14T00:00:00Z
 deploy_lat: >= 25 <= 28
 deploy_lon: >= -80 <= -79

Optional Constraint #1
 time: >= 2010-01-01T00:00:00Z <= 2016-02-14T00:00:00Z
 deploy_lat: >= 25 <= 28
 deploy_lon: >= -80 <= -79

Optional Constraint #2
 time: >= 2010-01-01T00:00:00Z <= 2016-02-14T00:00:00Z
 deploy_lat: >= 25 <= 28
 deploy_lon: >= -80 <= -79

Server-side Functions
 distinct()
 orderBy: (*ID) time

Graph Settings
 Marker Type: Filled Square
 Color:
 Color Bar: Minimum: Maximum: N Sections:
 Draw land mask:
 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: [\(File Type information\)](#)
 and [Download the Data or an Image](#)
 or view the URL: https://erddap.aoml.noaa.gov/gdp/erddap/tabledap/drifter_6hour_qc.html
[\(Documentation / Bypass this form\)](#)

Click on the map to specify a new center point.
 Zoom: Out 8x Out 2x Out Data In In 2x In 8x
 Time range: 6 year(s)

File ID: 1900 2000 2200 2400 2600 2800 3000 3200 3400
 Global Drifter Program - 6 Hour Interpolated QC Drifter Data
 time=2010-01-01T00:00:00Z, time=2013-03-06T00:00:00Z
 Data courtesy of NOAA Atlantic Oceanographic and Meteorological Laboratory

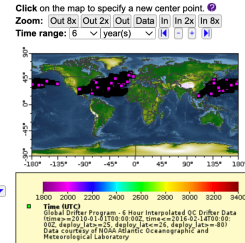
6. If the plot preview is acceptable, select the desired output file format.

ERDDAP > tabledap > Make A Graph

Dataset Title: [Global Drifter Program - 6 Hour Interpolated QC Drifter Data](#)
 Institution: NOAA Atlantic Oceanographic and Meteorological Laboratory (Dataset ID: drifter_6hour_gc)
 Range: longitude = -179.999 to 180.0°E, latitude = -78.305 to 89.984°N, time = 1979-02-15T00:00:00Z to 2023-03-06T00:00:00Z
 Information: [Summary](#) | [License](#) | [FGDC](#) | [ISO 19115](#) | [Metadata](#) | [Background](#) | [Subset](#) | [Data Access Form](#) | [Files](#)

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

Constraints	Optional Constraint #1	Optional Constraint #2
time	>= 2010-01-01T00:00:00Z	<= 2016-02-14T00:00:00Z
deploy_lat	>= 25	<= 26
deploy_lon	>= -80	<= -78
	>=	<=



Server-side Functions
 distinct() orderBy (*)
 orderBy: (*ID) time

Graph Settings
 Marker Type: Filled Square Size: 5
 Color: Continuity: Scale: N Sections:
 Minimum: Maximum:
 Draw land mask: 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: (File Type information)
 and [Download the Data or an Image](#)
 or view the URL: https://erddap.aoml.noaa.gov/gdp/erddap/tabledap/drifter_6hour_gc.html
 (Documentation / Bypass this form)

Options include: .csv, .html, .asc, .png, .mat, .pdf, .transparentPng, Google Earth (.kml), etc.

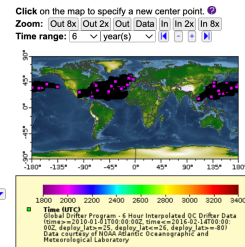
7. Once you have entered the desired information and chosen the output file type, click “Download the Data or an Image” to receive the plot, or generate a URL that saves the specified variables. The URL can be used to reference the dataset parameters at a later date, and/or can be shared with colleagues.

ERDDAP > tabledap > Make A Graph

Dataset Title: [Global Drifter Program - 6 Hour Interpolated QC Drifter Data](#)
 Institution: NOAA Atlantic Oceanographic and Meteorological Laboratory (Dataset ID: drifter_6hour_gc)
 Range: longitude = -179.999 to 180.0°E, latitude = -78.305 to 89.984°N, time = 1979-02-15T00:00:00Z to 2023-03-06T00:00:00Z
 Information: [Summary](#) | [License](#) | [FGDC](#) | [ISO 19115](#) | [Metadata](#) | [Background](#) | [Subset](#) | [Data Access Form](#) | [Files](#)

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

Constraints	Optional Constraint #1	Optional Constraint #2
time	>= 2010-01-01T00:00:00Z	<= 2016-02-14T00:00:00Z
deploy_lat	>= 25	<= 26
deploy_lon	>= -80	<= -78
	>=	<=



Server-side Functions
 distinct() orderBy (*)
 orderBy: (*ID) time

Graph Settings
 Marker Type: Filled Square Size: 5
 Color: Continuity: Scale: N Sections:
 Minimum: Maximum:
 Draw land mask: 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: (File Type information)
 and [Download the Data or an Image](#)
 or view the URL: https://erddap.aoml.noaa.gov/gdp/erddap/tabledap/drifter_6hour_gc.html
 (Documentation / Bypass this form)