

Real-time access for drifting buoy data – Basic instructions

To access real-time data from drifting buoys, please visit the NOAA GDP ERDDAP webpage at https://erddap.aoml.noaa.gov/gdp/erddap/tabledap/OSMC_RealTime.html. Here, you will see the list of possible variables. Examples include: date ranges, specific regions, 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 access the source dataset, please visit the NOAA OSMC ERDDAP at http://osmc.noaa.gov/erddap/tabledap/OSMC_30day.html. **

1. To begin, select “Uncheck All.”

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Dataset Title: OSMC 30 day RT data
Institution: OSMC (Dataset ID: OSMC_30day)
Information: Summary | License | FGDC | ISO 19115 | Metadata | Background | Subset | Make a graph

Variable Check All Uncheck All

Variable	Optional Constraint #1	Optional Constraint #2	Minimum or a List of Values	Maximum
<input checked="" type="checkbox"/> platform_code (WMO id or ship call sign)	>> <<	<< >>		
<input checked="" type="checkbox"/> platform_type	>> <<	<< >>		
<input checked="" type="checkbox"/> country	>> <<	<< >>		
<input checked="" type="checkbox"/> time (observation date, UTC)	>> 2017-08-17T00:00:00Z <<	<< >>		
<input checked="" type="checkbox"/> latitude (degrees_north)	>> <<	<< >>	-89.0	89.0
<input checked="" type="checkbox"/> longitude (degrees_east)	>> <<	<< >>	-180.0	180.0
<input checked="" type="checkbox"/> observation_depth	>> <<	<< >>		
<input checked="" type="checkbox"/> sst (sea surface temperature, Deg C)	>> <<	<< >>		
<input checked="" type="checkbox"/> atmpt (air temperature, Deg C)	>> <<	<< >>		
<input checked="" type="checkbox"/> precip (precipitation, mm)	>> <<	<< >>		
<input checked="" type="checkbox"/> ztmp (profile water temperature, Deg C)	>> <<	<< >>		
<input checked="" type="checkbox"/> zsal (profile salinity)	>> <<	<< >>		
<input checked="" type="checkbox"/> slp (sea level pressure, hPa)	>> <<	<< >>		
<input checked="" type="checkbox"/> windsdp (wind speed, m/s)	>> <<	<< >>		
<input checked="" type="checkbox"/> winddir (wind from direction, Deg true)	>> <<	<< >>		
<input checked="" type="checkbox"/> wvht (sea surface wave significant height, m)	>> <<	<< >>		
<input checked="" type="checkbox"/> waterlevel (m)	>> <<	<< >>		
<input checked="" type="checkbox"/> clouds (cloud cover, oktas)	>> <<	<< >>		
<input checked="" type="checkbox"/> dewpoint (dew point temperature, Deg C)	>> <<	<< >>		
<input checked="" type="checkbox"/> uo (eastward sea water velocity, m s-1)	>> <<	<< >>		
<input checked="" type="checkbox"/> vo (northward sea water velocity, m s-1)	>> <<	<< >>		
<input checked="" type="checkbox"/> wo (upward sea water velocity, m s-1)	>> <<	<< >>		
<input checked="" type="checkbox"/> rainfall_rate (m s-1)	>> <<	<< >>		
<input checked="" type="checkbox"/> hur (relative humidity)	>> <<	<< >>		
<input checked="" type="checkbox"/> sea_water_elec_conductivity (S m-1)	>> <<	<< >>		
<input checked="" type="checkbox"/> sea_water_pressure (dbar)	>> <<	<< >>		
<input checked="" type="checkbox"/> rlds (surface downwelling longwave flux in air, W m-2)	>> <<	<< >>		
<input checked="" type="checkbox"/> rsds (surface downwelling shortwave flux in air, W m-2)	>> <<	<< >>		
<input checked="" type="checkbox"/> waterlevel_met_res (meteorological residual tidal elevation, m)	>> <<	<< >>		
<input checked="" type="checkbox"/> waterlevel_wrt_lcd (tidal elevation WRT local chart datum, m)	>> <<	<< >>		
<input checked="" type="checkbox"/> water_col_ht (water column height, m)	>> <<	<< >>		
<input checked="" type="checkbox"/> wind_to_direction (degree)	>> <<	<< >>		
<input checked="" type="checkbox"/> lon360 (longitude, degree_east)	>> <<	<< >>		

2. Once all boxes are unchecked, within “platform type”, select “DRIFTING BUOYS {GENERIC}” from the pull-down tab on the far right.

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Variable Check All Uncheck All

Variable	Optional Constraint #1	Optional Constraint #2	Minimum or a List of Values	Maximum
<input type="checkbox"/> platform_code (WMO id or Ship call sign)	>> <<	<< >>		
<input checked="" type="checkbox"/> platform_type	>> DRIFTING BUOYS {GENERIC} <<	<< >>		
<input type="checkbox"/> country	>> <<	<< >>		
<input type="checkbox"/> time (observation date, UTC)	>> 2017-08-17T00:00:00Z <<	<< >>		
<input type="checkbox"/> latitude (degrees_north)	>> <<	<< >>		
<input type="checkbox"/> longitude (degrees_east)	>> <<	<< >>		
<input type="checkbox"/> observation_depth	>> <<	<< >>		
<input type="checkbox"/> sst (sea surface temperature, Deg C)	>> <<	<< >>		
<input type="checkbox"/> atmpt (air temperature, Deg C)	>> <<	<< >>		
<input type="checkbox"/> precip (precipitation, mm)	>> <<	<< >>		
<input type="checkbox"/> ztmp (profile water temperature, Deg C)	>> <<	<< >>		
<input type="checkbox"/> zsal (profile salinity)	>> <<	<< >>		
<input type="checkbox"/> slp (sea level pressure, hPa)	>> <<	<< >>		
<input type="checkbox"/> windsdp (wind speed, m/s)	>> <<	<< >>		
<input type="checkbox"/> winddir (wind from direction, Deg true)	>> <<	<< >>		
<input type="checkbox"/> wvht (sea surface wave significant height, m)	>> <<	<< >>		
<input type="checkbox"/> waterlevel (m)	>> <<	<< >>		
<input type="checkbox"/> clouds (cloud cover, oktas)	>> <<	<< >>		
<input type="checkbox"/> dewpoint (dew point temperature, Deg C)	>> <<	<< >>		
<input type="checkbox"/> uo (eastward sea water velocity, m s-1)	>> <<	<< >>		
<input type="checkbox"/> vo (northward sea water velocity, m s-1)	>> <<	<< >>		
<input type="checkbox"/> wo (upward sea water velocity, m s-1)	>> <<	<< >>		
<input type="checkbox"/> rainfall_rate (m s-1)	>> <<	<< >>		
<input type="checkbox"/> hur (relative humidity)	>> <<	<< >>		
<input type="checkbox"/> sea_water_elec_conductivity (S m-1)	>> <<	<< >>		
<input type="checkbox"/> sea_water_pressure (dbar)	>> <<	<< >>		
<input type="checkbox"/> rlds (surface downwelling longwave flux in air, W m-2)	>> <<	<< >>		
<input type="checkbox"/> rsds (surface downwelling shortwave flux in air, W m-2)	>> <<	<< >>		
<input type="checkbox"/> waterlevel_met_res (meteorological residual tidal elevation, m)	>> <<	<< >>		
<input type="checkbox"/> waterlevel_wrt_lcd (tidal elevation WRT local chart datum, m)	>> <<	<< >>		
<input type="checkbox"/> water_col_ht (water column height, m)	>> <<	<< >>		
<input type="checkbox"/> wind_to_direction (degree)	>> <<	<< >>		
<input type="checkbox"/> lon360 (longitude, degree_east)	>> <<	<< >>		

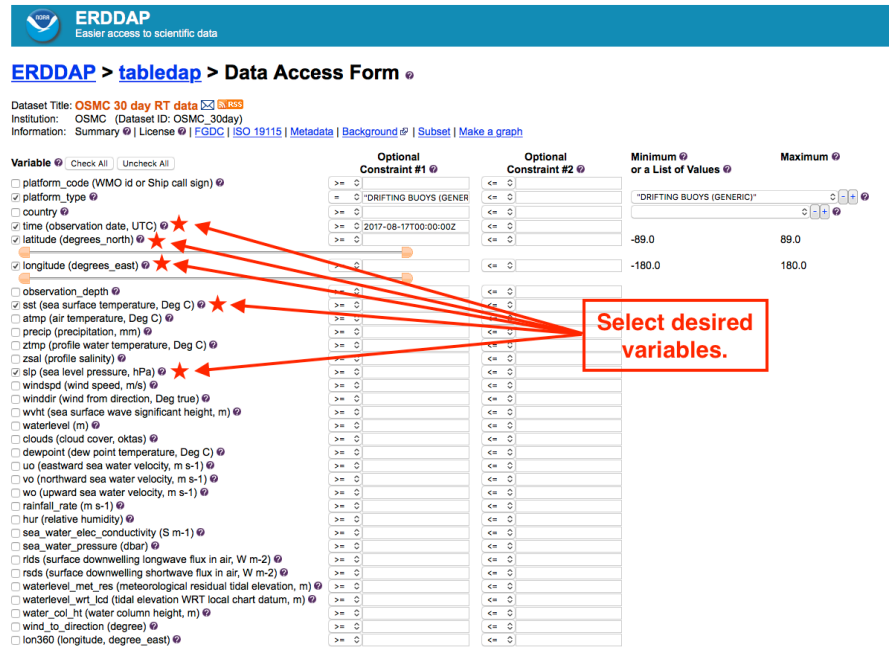
Server-side Functions

distinct()

orderBy

- "C-MAN WEATHER STATIONS"
- "CLIMATE REFERENCE MOORED BUOYS"
- "DRIFTING BUOYS {GENERIC}"
- "GLIDERS"
- "GLOSS"
- "ICE BUOYS"
- "MOORED BUOYS {GENERIC}"
- "PROFILING FLOATS AND GLIDERS {GENERIC}"
- "RESEARCH"
- "SHIPS"
- "SHIPS {GENERIC}"
- "SHORE AND BOTTOM STATIONS {GENERIC}"
- "TIDE GAUGE STATIONS {GENERIC}"
- "TROPICAL MOORED BUOYS"
- "TSUNAMI WARNING STATIONS"
- "UNKNOWN"
- "VOLUNTEER OBSERVING SHIPS"
- "VOLUNTEER OBSERVING SHIPS {GENERIC}"
- "VOSCLIM"
- "WEATHER AND OCEAN OBS"
- "WEATHER BUOYS"
- "WEATHER OBS"

3. After selecting “DRIFTING BUOYS” within “platform_type”, next select the desired variable(s) . For example, if you are interested in time, latitude, longitude, SST, and SLP, you would check the following selections:



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Dataset Title: **OSMC 30 day RT data** [3335](#)
 Institution: OSMC (Dataset ID: OSMC_30day)
 Information: [Summary](#) | [License](#) | [FGDC](#) | [ISO 19115](#) | [Metadata](#) | [Background](#) | [Subset](#) | [Make a graph](#)

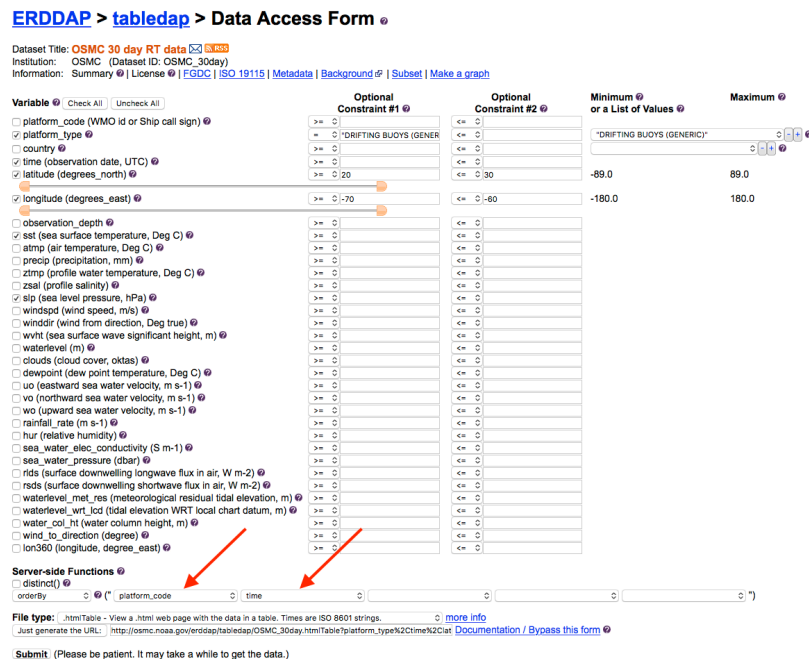
Variable	Optional Constraint #1	Optional Constraint #2	Minimum or a List of Values	Maximum
<input type="checkbox"/> platform_code (WMO id or Ship call sign)	>=	<=		
<input checked="" type="checkbox"/> platform_type	=	"DRIFTING BUOYS (GENE	"DRIFTING BUOYS (GENERIC"	
<input type="checkbox"/> country	>=	<=		
<input checked="" type="checkbox"/> time (observation date, UTC)	>=	<=		
<input checked="" type="checkbox"/> latitude (degrees_north)	>=	<=	-89.0	89.0
<input checked="" type="checkbox"/> longitude (degrees_east)	>=	<=	-180.0	180.0
<input type="checkbox"/> observation_depth	>=	<=		
<input checked="" type="checkbox"/> sst (sea surface temperature, Deg C)	>=	<=		
<input type="checkbox"/> atmp (air temperature, Deg C)	>=	<=		
<input type="checkbox"/> precip (precipitation, mm)	>=	<=		
<input type="checkbox"/> ztmp (profile water temperature, Deg C)	>=	<=		
<input type="checkbox"/> zsal (profile salinity)	>=	<=		
<input checked="" type="checkbox"/> slp (sea level pressure, hPa)	>=	<=		
<input type="checkbox"/> windspeed (wind speed, m/s)	>=	<=		
<input type="checkbox"/> winddir (wind from direction, Deg true)	>=	<=		
<input type="checkbox"/> wvht (sea surface wave significant height, m)	>=	<=		
<input type="checkbox"/> waterlevel (m)	>=	<=		
<input type="checkbox"/> clouds (cloud cover, oktas)	>=	<=		
<input type="checkbox"/> dewpoint (dew point temperature, Deg C)	>=	<=		
<input type="checkbox"/> uo (eastward sea water velocity, m s-1)	>=	<=		
<input type="checkbox"/> vo (northward sea water velocity, m s-1)	>=	<=		
<input type="checkbox"/> wo (upward sea water velocity, m s-1)	>=	<=		
<input type="checkbox"/> rainfall_rate (m s-1)	>=	<=		
<input type="checkbox"/> hur (relative humidity)	>=	<=		
<input type="checkbox"/> sea_water_elec_conductivity (S m-1)	>=	<=		
<input type="checkbox"/> sea_water_pressure (dbar)	>=	<=		
<input type="checkbox"/> rids (surface downwelling longwave flux in air, W m-2)	>=	<=		
<input type="checkbox"/> rlds (surface downwelling shortwave flux in air, W m-2)	>=	<=		
<input type="checkbox"/> waterlevel_met_res (meteorological residual tidal elevation, m)	>=	<=		
<input type="checkbox"/> waterlevel_wrt_lcd (tidal elevation WRT local chart datum, m)	>=	<=		
<input type="checkbox"/> water_col_ht (water column height, m)	>=	<=		
<input type="checkbox"/> wind_to_direction (degree)	>=	<=		
<input type="checkbox"/> lon360 (longitude, degree_east)	>=	<=		

Select desired variables.

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

4. OPTIONAL: Once all desired variables have been chosen, for best output results, under “Server-side Functions”, order variables by “platform_code” and “time”. In doing so, the output will be displayed by WMO number and 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	Optional Constraint #1	Optional Constraint #2	Minimum or a List of Values	Maximum
<input type="checkbox"/> platform_code (WMO id or Ship call sign)	>=	<=		
<input checked="" type="checkbox"/> platform_type	=	"DRIFTING BUOYS (GENE	"DRIFTING BUOYS (GENERIC"	
<input type="checkbox"/> country	>=	<=		
<input checked="" type="checkbox"/> time (observation date, UTC)	>=	<=		
<input checked="" type="checkbox"/> latitude (degrees_north)	>=	<=	-89.0	89.0
<input checked="" type="checkbox"/> longitude (degrees_east)	>=	<=	-180.0	180.0
<input type="checkbox"/> observation_depth	>=	<=		
<input checked="" type="checkbox"/> sst (sea surface temperature, Deg C)	>=	<=		
<input type="checkbox"/> atmp (air temperature, Deg C)	>=	<=		
<input type="checkbox"/> precip (precipitation, mm)	>=	<=		
<input type="checkbox"/> ztmp (profile water temperature, Deg C)	>=	<=		
<input type="checkbox"/> zsal (profile salinity)	>=	<=		
<input checked="" type="checkbox"/> slp (sea level pressure, hPa)	>=	<=		
<input type="checkbox"/> windspeed (wind speed, m/s)	>=	<=		
<input type="checkbox"/> winddir (wind from direction, Deg true)	>=	<=		
<input type="checkbox"/> wvht (sea surface wave significant height, m)	>=	<=		
<input type="checkbox"/> waterlevel (m)	>=	<=		
<input type="checkbox"/> clouds (cloud cover, oktas)	>=	<=		
<input type="checkbox"/> dewpoint (dew point temperature, Deg C)	>=	<=		
<input type="checkbox"/> uo (eastward sea water velocity, m s-1)	>=	<=		
<input type="checkbox"/> vo (northward sea water velocity, m s-1)	>=	<=		
<input type="checkbox"/> wo (upward sea water velocity, m s-1)	>=	<=		
<input type="checkbox"/> rainfall_rate (m s-1)	>=	<=		
<input type="checkbox"/> hur (relative humidity)	>=	<=		
<input type="checkbox"/> sea_water_elec_conductivity (S m-1)	>=	<=		
<input type="checkbox"/> sea_water_pressure (dbar)	>=	<=		
<input type="checkbox"/> rids (surface downwelling longwave flux in air, W m-2)	>=	<=		
<input type="checkbox"/> rlds (surface downwelling shortwave flux in air, W m-2)	>=	<=		
<input type="checkbox"/> waterlevel_met_res (meteorological residual tidal elevation, m)	>=	<=		
<input type="checkbox"/> waterlevel_wrt_lcd (tidal elevation WRT local chart datum, m)	>=	<=		
<input type="checkbox"/> water_col_ht (water column height, m)	>=	<=		
<input type="checkbox"/> wind_to_direction (degree)	>=	<=		
<input type="checkbox"/> lon360 (longitude, degree_east)	>=	<=		

Server-side Functions

distinct()
 orderBy platform_code time

File type: [.html](#) Table - View a .html web page with the data in a table. Times are ISO 8601 strings. [more info](#)
 Just generate the URL: http://osmc.noaa.gov/erddap/tabledap/OSMC_30day.html?Table?platform_type%3Dtime%3Dclat [Documentation](#) / [Bypass this form](#)

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

5. 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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Check All Uncheck All

Variable	Optional Constraint #1	Optional Constraint #2	Minimum or a List of Values	Maximum
<input type="checkbox"/> platform_code (WMO id or Ship call sign)	>=	<=		
<input checked="" type="checkbox"/> platform_type	=	=	"DRIFTING BUOYS (GENERIC)"	
<input type="checkbox"/> country	>=	<=		
<input checked="" type="checkbox"/> time (observation date, UTC)	>=	<=		
<input checked="" type="checkbox"/> latitude (degrees_north)	>= -20	<= 30	-89.0	89.0
<input checked="" type="checkbox"/> longitude (degrees_east)	>= -70	<= -60	-180.0	180.0
<input type="checkbox"/> observation_depth	>=	<=		
<input checked="" type="checkbox"/> sst (sea surface temperature, Deg C)	>=	<=		
<input type="checkbox"/> atmp (air temperature, Deg C)	>=	<=		
<input type="checkbox"/> precip (precipitation, mm)	>=	<=		
<input type="checkbox"/> ztmp (profile water temperature, Deg C)	>=	<=		
<input type="checkbox"/> zsal (profile salinity)	>=	<=		
<input checked="" type="checkbox"/> slp (sea level pressure, hPa)	>=	<=		
<input type="checkbox"/> windsdp (wind speed, m/s)	>=	<=		
<input type="checkbox"/> winddir (wind from direction, Deg true)	>=	<=		
<input type="checkbox"/> whwt (sea surface wave significant height, m)	>=	<=		
<input type="checkbox"/> waterlevel (m)	>=	<=		
<input type="checkbox"/> clouds (cloud cover, oktas)	>=	<=		
<input type="checkbox"/> dewpoint (dew point temperature, Deg C)	>=	<=		
<input type="checkbox"/> uo (eastward sea water velocity, m s-1)	>=	<=		
<input type="checkbox"/> vo (northward sea water velocity, m s-1)	>=	<=		
<input type="checkbox"/> wo (upward sea water velocity, m s-1)	>=	<=		
<input type="checkbox"/> rainfall_rate (m s-1)	>=	<=		
<input type="checkbox"/> hur (relative humidity)	>=	<=		
<input type="checkbox"/> sea_water_elec_conductivity (S m-1)	>=	<=		
<input type="checkbox"/> sea_water_pressure (dbar)	>=	<=		
<input type="checkbox"/> rlds (surface downwelling longwave flux in air, W m-2)	>=	<=		
<input type="checkbox"/> rsds (surface downwelling shortwave flux in air, W m-2)	>=	<=		
<input type="checkbox"/> waterlevel_met_res (meteorological residual tidal elevation, m)	>=	<=		
<input type="checkbox"/> waterlevel_wrt_lcd (tidal elevation WRT local chart datum, m)	>=	<=		
<input type="checkbox"/> water_col_ht (water column height, m)	>=	<=		
<input type="checkbox"/> wind_dir_direction (degree)	>=	<=		
<input type="checkbox"/> lon360 (longitude, degree_east)	>=	<=		

Server-side Functions

distinct()

orderBy: platform_code time

File type: [GeoJSON](#) - Download longitude,latitude,otherColumns data as a GeoJSON .json file. [more info](#)
Just generate the URL: http://osmc.noaa.gov/erddap/tabledap/OSMC_30day.html?table=platform_type%2Ctime%2Clat [Documentation](#) / [Bypass this form](#)

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

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