

Automating GIS Processes for Users

Enhance Interoperability, Discoverability, and Usability of Data with ArcGIS Notebooks

Gulf of America Alliance All Hands Meeting 2025
Data and Monitoring Team Meeting

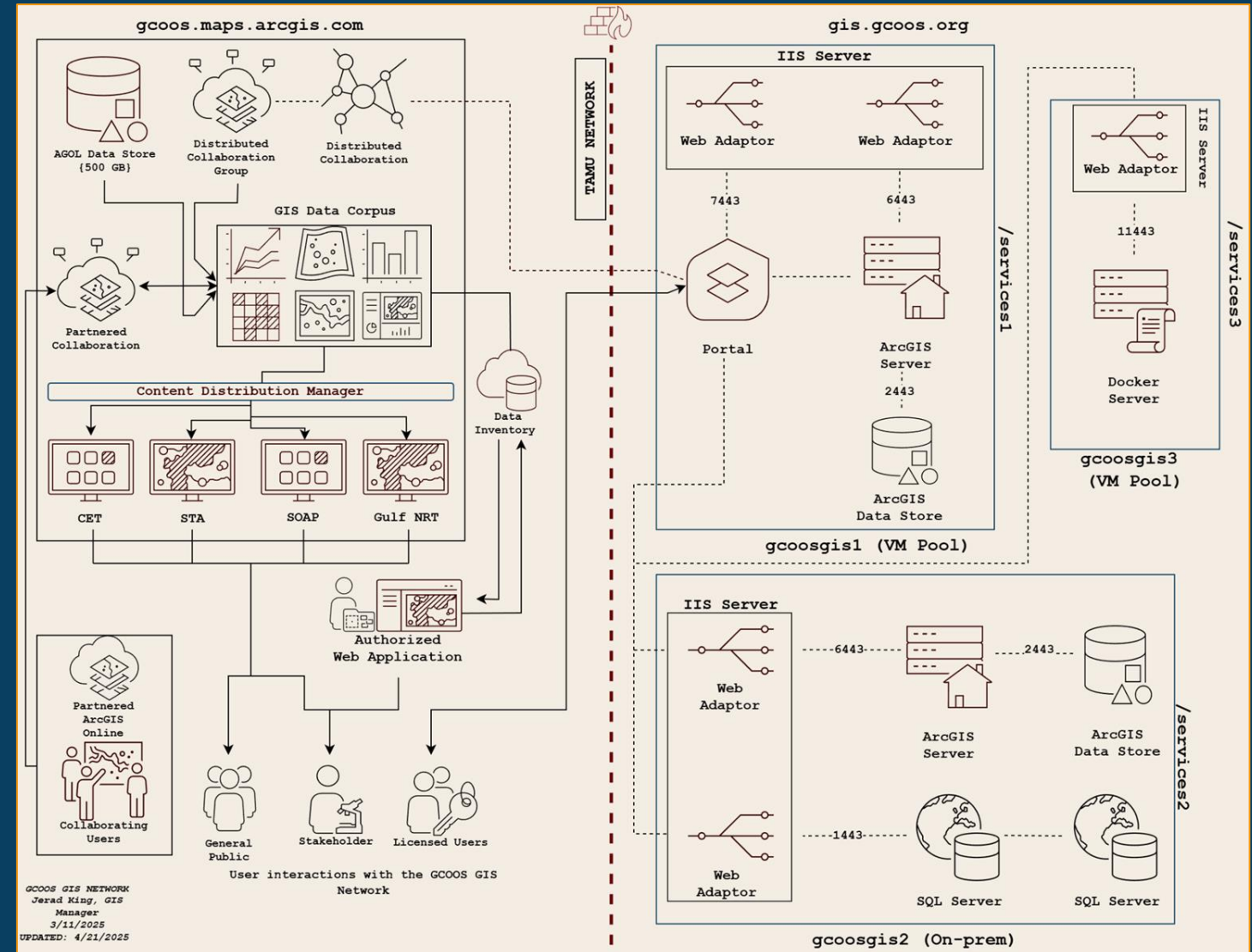
Jerad King

*GCOOS Data Management and Cyberinfrastructure
GIS Manager & Developer*



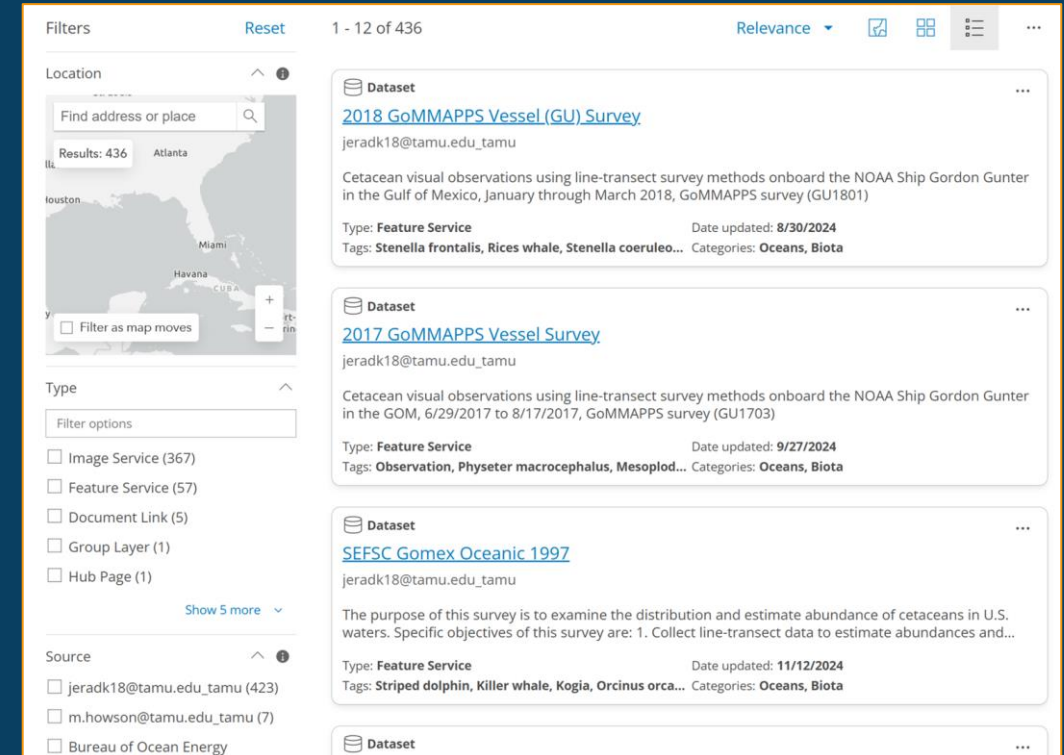
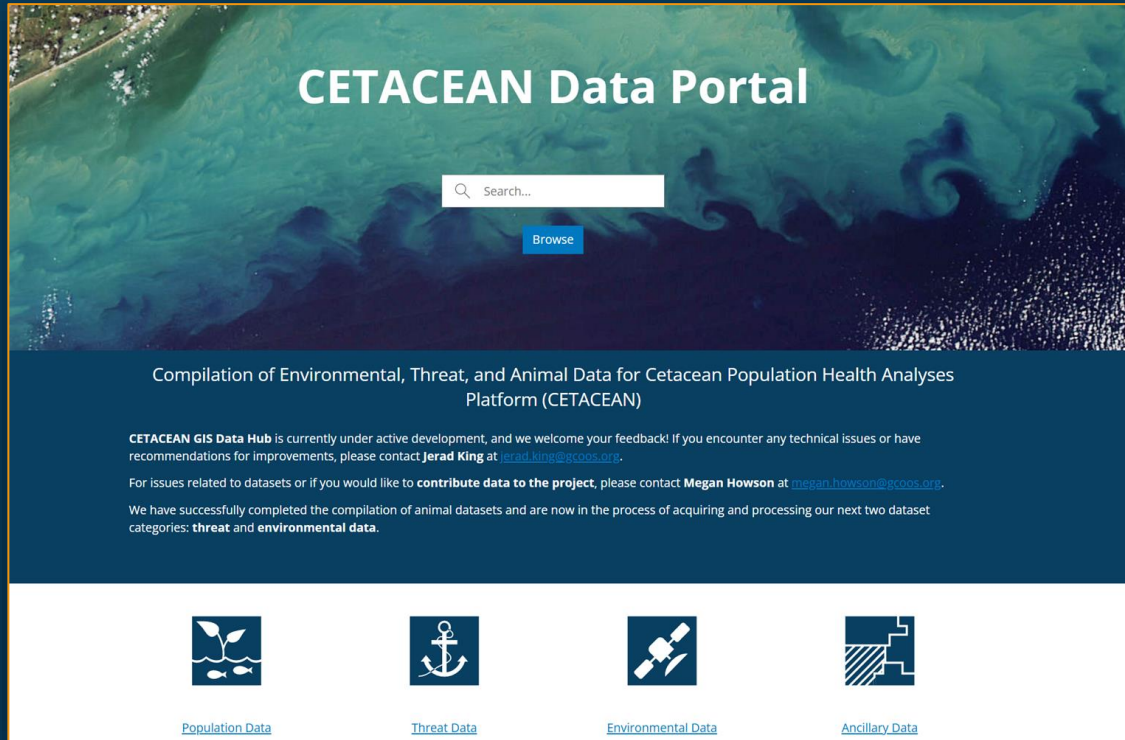
Background/What I do

- Guide the synthesis, publication, and management of GCOOS GIS datasets
- Administration and development of the GCOOS GIS infrastructure (Platforms: ArcGIS Online, ArcGIS Enterprise, ArcGIS Hub Sites)
- Research and development of new data management methods and applications.



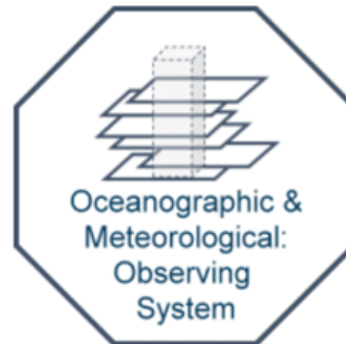
The CETACEAN (Compilation of Environmental, Threat, and Animal Data for Cetacean Population Health Analyses Platform) Project.

- cetacean.gcoos.org





This is an ERDDAP server that serves historical collection of oceanographic and meteorological data that are in GCOOS holdings.



This is an ERDDAP server that serves oceanographic and meteorological data and near-realtime data from *in situ* observing systems.



This ERDDAP server was created to distribute other non-oceanographic data that are in GCOOS holdings collected in the region. This will include biological and socioeconomic data.

Briefly, ERDDAP

- A data service that standardizes access to oceanographic and atmospheric datasets.
 - Standardized variable names
- Data requested on ERDDAP can be requested in a variety of common file types.

GCOOS | Biological and Socioeconomics

ERDDAP > tabledap > Make A Graph

Dataset Title: * The List of All Active Datasets in this ERDDAP *
Institution: GCOOS (Dataset ID: allDatasets)
Information: Summary | License | Metadata | Background | Subset | Data Access Form

Graph Type: markers
X Axis: maxLongitude
Y Axis: maxLatitude
Color: [dropdown]

Constraints
Optional Constraint #1
Optional Constraint #2

Server-side Functions
☐ distinct()

Graph Settings
Marker Type: Filled Square
Color: [color bar]
Continuity: [dropdown]
Scale: [dropdown]
Y Axis Minimum: [input]
Maximum: [input]
N Sections: [input]
Ascending: [checkbox]

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

Optional:
Then set the File Type: [dropdown]
and Download the Data or an Image
or view the URL: <https://gcoos4.geos.tamu.edu/erddap/tabledap/allDatasets.htmlTable?max>
(Documentation / Bypass this form)

Things You Can Do With Your Graphs

Well, you can do anything you want with your graphs, of course. But some things you might not have considered are:

- Web page authors can embed a graph of the latest data in a web page using HTML tags.
- Anyone can use ERDDAP's Slide Sorter to build a personal web page that displays graphs with the latest data (or other images or HTML content), each in its own, draggable slide.

GCOOS | Biological and Socioeconomics

ERDDAP > tabledap > Data Access Form

Dataset Title: * The List of All Active Datasets in this ERDDAP *
Institution: GCOOS (Dataset ID: allDatasets)
Information: Summary | License | Metadata | Background | Subset | Make a graph

Variable [Check All] [Uncheck All]

Optional Constraint #1
Optional Constraint #2
Minimum or a List of Values
Maximum

☒ datasetID
☒ accessible
☒ institution
☒ dataStructure
☒ cdm_data_type (Common Data Model Type)
☒ class (ERDDAP Class)
☒ title
☒ minLongitude (Minimum Longitude, degrees_east)
☒ maxLongitude (Maximum Longitude, degrees_east)
☒ longitudeSpacing (degrees_east)
☒ minLatitude (Minimum Latitude, degrees_north)
☒ maxLatitude (Maximum Latitude, degrees_north)
☒ latitudeSpacing (degrees_north)
☒ minAltitude (m)
☒ maxAltitude (m)
☒ minTime (Minimum Time, UTC)
☒ maxTime (Maximum Time, UTC)
☒ timeSpacing (seconds)
☒ griddap
☒ subset (URL of Subset Web Page)
☒ tabledap
☒ MakeAGraph (URL of Make-A-Graph Web Page)
☒ sos (Base URL of SOS Service)
☒ wcs (Base URL of WCS Service)
☒ wms (Base URL of WMS Service)
☒ files (Base URL of "files" Service)
☒ fgdc (URL of FGDC Document)
☒ iso19115 (URL of ISO 19115 Document)
☒ metadata
☒ sourceUrl (URL of the Source Data)
☒ infoUrl
☒ rss (URL of RSS)
☒ email
☒ testOutOfDate (testOutOfDate Attribute)
☒ outOfDate (Out-Of-Date Index)
☒ summary (Summary Text)

Server-side Functions
☐ distinct()

File type: (more information)
htmlTable - View a UTF-8 .html web page with the data in a table. Times are ISO 8601 strings.

erddap2agol

A Tale of Two Services.

- 1. Publish static ERDDAP Data***
- 2. Create glider track datasets from the Glider DAC ERDDAP**
- 3. Create NRT Hosted Feature Layers**

** Currently limited to tabledap, dataset must have lat/lon*

Introduction to erddap2agol

Getting Started With erddap2agol: CUI

```
In [ ]: # Run this command to install the package
!pip install https://github.com/GCOOS/erddap2agol/archive/refs/heads/main.zip

In [ ]: # With the build done, we can go ahead and import the package
import erddap2agol

# Run is the module that holds the primary CUI function
from erddap2agol import run

# call module.function() to start the cui!
run.cui()

# Example of update function call
# run._updateNRT(verbose_opt=False, preserveProps_opt=True, timeout_Time=180, max_workers=5)
```

Introduction to erddap2agol

Welcome to ERDDAP2AGOL.
GCOOS GIS, 2025.

1. Create ERDDAP Datasets
2. Create Glider DAC Datasets
3. Create NRT Items
4. Find & Update NRT Items
5. Options Menu
6. Exit & Clean Temp

:

Page 5 of 8 | Cart: 0 datasets

41. CRCP_Coral_Demographic_Survey_USVI
42. CRCP_Fish_Towed_Survey_American_Samoa
43. CRCP_Fish_Towed_Survey_CNMI_Guam
44. CRCP_Fish_Towed_Survey_Hawaii
45. CRCP_Fish_Towed_Survey_PRIAs
46. CRCP_Invertebrates_ESACorals_Florida
47. CRCP_Invertebrates_ESACorals_Flower_Gardens
48. CRCP_Invertebrates_ESACorals_Puerto_Rico
49. CRCP_Invertebrates_ESACorals_USVI
50. CRCP_Reef_Fish_Surveys_American_Samoa

Commands:

'next', 'back', 'addAll', 'addPage', 'done', 'mainMenu', 'exit'

type 'search:keyword1+keyword2' to search datasets.

enter comma-separated indices (e.g. '10,12:15') for single or range selection.

:

Adding the following datasets to the next step:

Dataset ID	Dataset Title
CRCP_Fish_Towed_Survey_Hawaii	CRCP_Fish_Towed_Survey_Hawaii

Requesting headers @ https://www.ncei.noaa.gov/erddap/tabledap/CRCP_Fish_Towed_Survey_Hawaii.ncHeader?

Downloading data data for CRCP_Fish_Towed_Survey_Hawaii (Attempt: 1/3)

You are logged on as jerad.king with an administrator role, proceed with caution.

Successfully connected to ArcGIS Online

Adding item for CRCP_Fish_Towed_Survey_Hawaii to ArcGIS Online...

Attempt 1: Trying to add item with title: CRCP_Fish_Towed_Survey_Hawaii and file: CRCP_Fish_Towed_Survey_Hawaii.csv

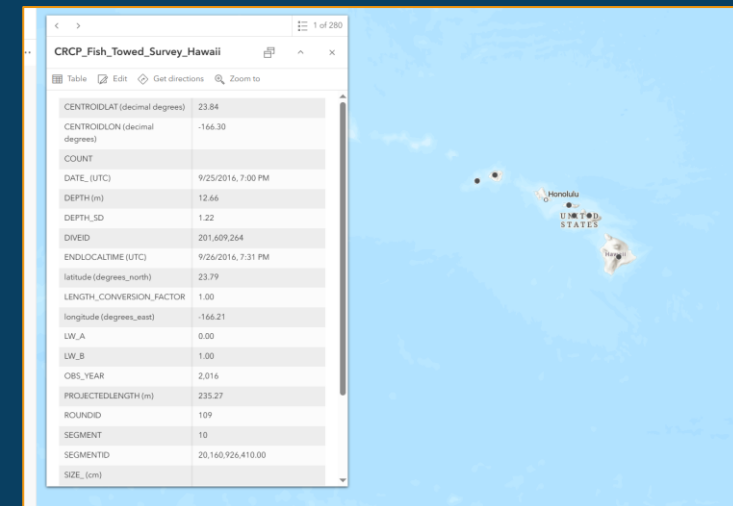
Publishing item for CRCP_Fish_Towed_Survey_Hawaii...

Finished processing dataset CRCP_Fish_Towed_Survey_Hawaii in 20.54 seconds

All done!

Processing completed for 1 datasets

Total processing time: 20.54 seconds



erddap2agol: High Level Summary

1. Connect to the ERDDAP server.
2. Select the desired datasets.
3. When the user has finished selecting datasets, the “data attribute structure”
4. Build ArcGIS metadata and service definition parameters.
5. Add data to ArcGIS, publish hosted feature layer from data.

Service -> Environment -> Service

```
def add_menu(menu_title:str, glider: bool = False, nrt: bool = False):  
    print(f"\nWelcome to {menu_title}")  
  
    # pass user params to erddapSelection  
    erddapObj = core.erddapSelection(  
        GliderServ=glider,  
        nrtAdd=nrt  
    )  
  
    # create list of dataset_id str and add to erddapObj  
    dataset_list = core.selectDatasetFromList(erddapObj)  
  
    # Transforms list into dataset objects  
    erddapObj.addDatasets_list(dataset_list)  
  
    datasetObjlist = (erddapObj.datasets)  
  
    for datasetObj in datasetObjlist:  
        datasetObj.generateUrl()  
        datasetObj.writeErddapData()  
  
    agolObj = aw.AgolWrangler(erddap_obj=erddapObj)  
    agolObj.datasets = erddapObj.datasets  
    agolObj.makeItemProperties()  
  
    if glider:  
        agolObj.pointTableToGeojsonLine()  
  
    agolObj.postAndPublish()  
    print("\nReturning to main menu...")  
    erddapObj.reset()  
    cui()
```

One-shot ERDDAP Clone with addAll

Page 1 of 1 | Cart: 0 datasets

1. CAGES Texas Study
2. CIGoM-CICESE Cetacean sightings
3. CREMP Dry Tortugas Yearly Revisited Stony Coral Percent Coverage
4. CREMP Florida Keys Yearly Revisited Stony Coral Percent Coverage
5. East Flower Garden Banks Benthic_Covage Monitoring 1989-2017 - DATA
6. East Flower Garden Banks Fish Monitoring 2009-2017 - DATA
7. East Flower Garden Banks Physical Monitoring 1990-2019
8. Juvenile Sportfish Monitoring in Florida Bay, Everglades National Park, DATA 2004
9. Juvenile Sportfish Monitoring in Florida Bay, Everglades National Park, DATA 2005
10. Juvenile Sportfish Monitoring in Florida Bay, Everglades National Park, DATA 2006
11. Juvenile Sportfish Monitoring in Florida Bay, Everglades National Park, DATA 2007
12. Juvenile Sportfish Monitoring in Florida Bay, Everglades National Park, DATA 2008
13. Juvenile Sportfish Monitoring in Florida Bay, Everglades National Park, DATA 2009
14. Juvenile Sportfish Monitoring in Florida Bay, Everglades National Park, DATA 2010
15. Juvenile Sportfish Monitoring in Florida Bay, Everglades National Park, DATA 2011
16. Juvenile Sportfish Monitoring in Florida Bay, Everglades National Park, DATA 2012
17. Juvenile Sportfish Monitoring in Florida Bay, Everglades National Park, DATA 2013
18. Juvenile Sportfish Monitoring in Florida Bay, Everglades National Park, DATA 2014
19. Juvenile Sportfish Monitoring in Florida Bay, Everglades National Park, DATA 2015
20. Juvenile Sportfish Monitoring in Florida Bay, Everglades National Park, DATA 2016
21. LA MBON Benthic Core Samples 2023
22. Pacific Life Cetacean (2019-2024)
23. Phytoplankton Concentration by Class - Surfside, TX
24. Stetson Flower Garden Banks Benthic_Covage Monitoring 1993-2018 - DATA
25. Stetson Flower Garden Banks Fish Monitoring 2010-2013 - DATA
26. Stetson Flower Garden Banks Physical Monitoring 1993-2018
27. West Flower Garden Banks Benthic_Covage Monitoring 1989-2017 - DATA
28. West Flower Garden Banks Fish Monitoring 2009-2017 - DATA
29. West Flower Garden Banks Physical Monitoring 1990-2018

Commands:

'next', 'back', 'addAll', 'addPage', 'done', 'mainMenu', 'exit'
 type 'search:keyword1+keyword2' to search datasets.

enter comma-separated indices (e.g. '10,12:15') for single or range selection.

: ⌕ for history. Search history with c-↑/c-↓



CETACEAN

Sea Turtle Atlas

GCOOS News

GCOOS GIS: Online

GCOOS ERDDAP: Biological and Socioeconomics

Feature Layer CAGES Texas Study	Feature Layer CREMP Dry Tortugas Yearly Revis...	Feature Layer CREMP Florida Keys Yearly Revisi...	Feature Layer East Flower Garden Banks Benth...
Feature Layer East Flower Garden Banks Fish M...	Feature Layer East Flower Garden Banks Physic...	Feature Layer Juvenile Sportfish Monitoring in F...	Feature Layer Juvenile Sportfish Monitoring in F...
Feature Layer Juvenile Sportfish Monitoring in F...	Feature Layer Juvenile Sportfish Monitoring in F...	Feature Layer Juvenile Sportfish Monitoring in F...	Feature Layer Juvenile Sportfish Monitoring in F...
Feature Layer Juvenile Sportfish Monitoring in F...	Feature Layer Juvenile Sportfish Monitoring in F...	Feature Layer Juvenile Sportfish Monitoring in F...	Feature Layer Juvenile Sportfish Monitoring in F...

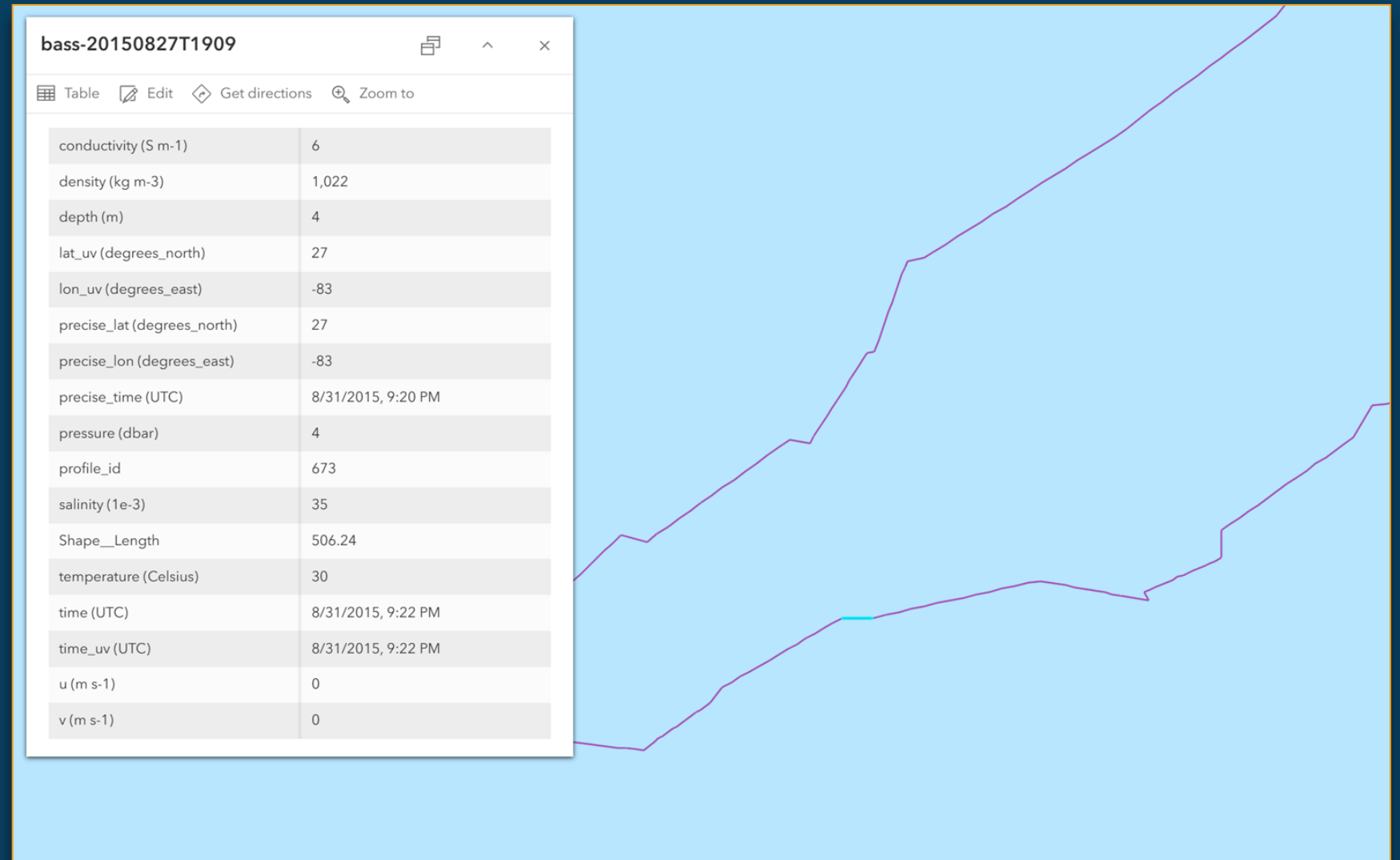
View gallery

Data available on gis.gcoos.org.

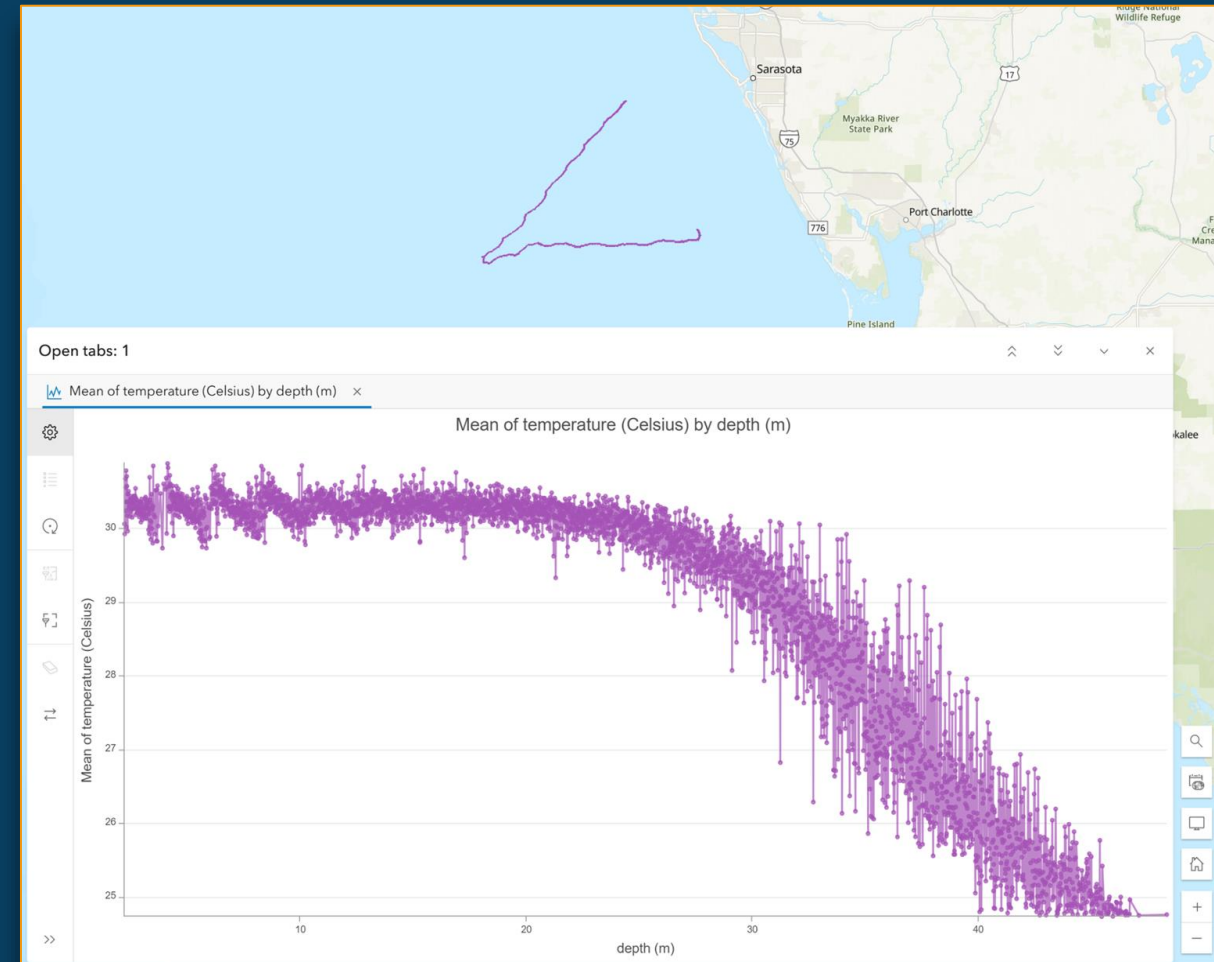
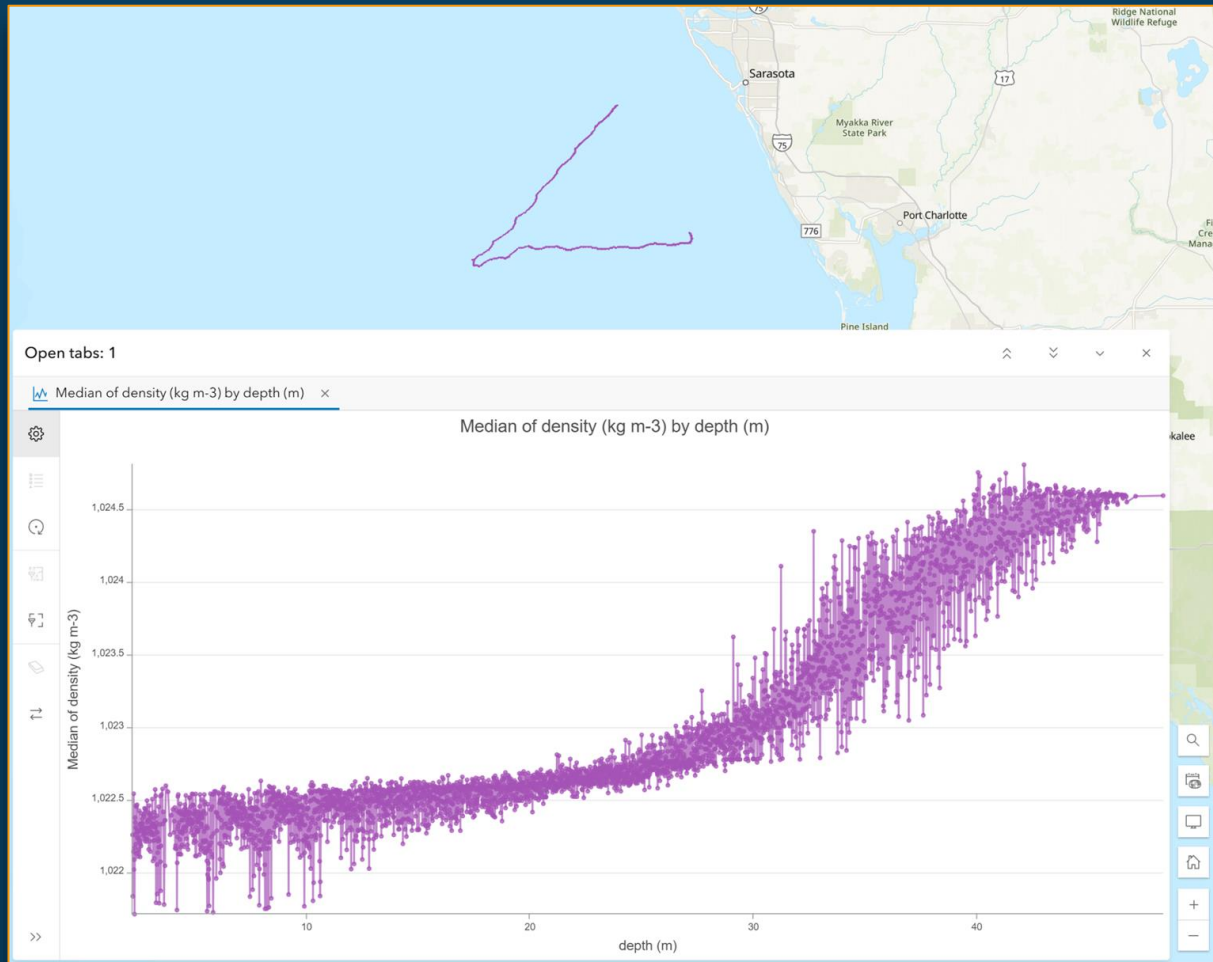
**Disable subsetting when adding data to an ArcGIS Portal*

Glider Data on ArcGIS Online

- In the glider process, an additional step is added, conversion to multiline GeoJSON.
- A last observation carried forward approach is used to bin the properties of each record into the constructed line segment.



Glider DAC Datasets





Update: Options Menu

1. Prior to posting to ArcGIS, erddap2agol will ask the user for a title for the dataset
2. Change the default sharing level
- 3. Enable/Disable the inclusion of generated tags**
4. Change the number of records requested/posted to ArcGIS
5. Change the number of datasets displayed on each page in the CUI
- 6. Bypass the chunking process**
- 7. Get all attributes**
- 8. Add additional tags**

Options Menu:

1. Toggle Custom Title (currently: False)
2. Select Sharing Level (currently: ORG)
3. Toggle Enable Tags (currently: True)
4. Change Download Batch Size (default 100,000)
5. Change the number of datasets displayed
6. Toggle Bypass Chunking (currently: False)
7. Get all attributes (currently: False)
8. Save options and return to main menu

Select an option:



Setting Views by QARTOD

With all attributes enabled, create view layers with QARTOD attributes.

1 - 35 of 35

Schema u

☐ Display Name	Field Name	Type
☐ time (UTC)	time__UTC__	Date
☐ wind_from_direction_qc_agg	wind_from_direction_qc_agg	Integer
☐ wind_from_direction (degrees)	wind_from_direction__degrees__	Double
☐ air_pressure (millibars)	air_pressure__millibars__	Double
☐ depth_reading_qc_agg	depth_reading_qc_agg	Integer
☐ air_temperature (degree_Celsius)	air_temperature__degree_Celsius	Double
☐ air_pressure_qc_agg	air_pressure_qc_agg	Integer
☐ air_pressure_at_mean_sea_level_qc_agg	air_pressure_at_mean_sea_level__	Integer
☐ air_temperature_qc_tests	air_temperature_qc_tests	String
☐ station	station	String
☐ sea_water_practical_salinity_qc_agg	sea_water_practical_salinity_qc	Integer
☐ air_pressure_qc_tests	air_pressure_qc_tests	String
☐ wind_speed_qc_tests	wind_speed_qc_tests	String
☐ depth_reading_qc_tests	depth_reading_qc_tests	String
☐ relative_humidity (%)	relative_humidity__	Double
☐ wind_speed_of_gust (m.s-1)	wind_speed_of_gust__m_s_1__	Double
☐ air_temperature_qc_agg	air_temperature_qc_agg	Integer
☐ wind_from_direction_qc_tests	wind_from_direction_qc_tests	String
☐ wind_speed_of_gust_qc_tests	wind_speed_of_gust_qc_tests	String

Filter
(41037 / ILM3) Wrightsville Beach Offshore, NC

Show features where [Clear all](#)

All of the following are true

Condition ...

wind_speed_qc_agg

is at least

2 21591

1 3485

3 76

1.0 3.0

AND

Condition ...

air_pressure_at_mean_sea_level_qc_agg

is at least

2

Histogram ^

x 2.0

Near-Real-Time ERDDAP Data with ArcGIS

Near-Real-Time ERDDAP Data on AGOL

- To achieve continuous updating/monitoring the program has to live somewhere.

Near-Real-Time ERDDAP Data on AGOL

Tags

 Edit

erddap → did_radials_iscy_ideal,
velocity_max, spatial_quality,
dist_east_from_origin, valid_location_qc,
primary_flag_qc, velocity, temporal_quality,
velocity_min, heading, time, bearing, longitude,
spatial_count, dist_north_from_origin,
radial_count_qc, spatial_median_filter_qc,
range_cell, max_threshold_qc, range,
temporal_count, latitude, syntax_qc, vector_flag,
→ e2a_nrt,
→ https://gcoos5.geos.tamu.edu/erddap//tabledap/

Credits (Attribution)

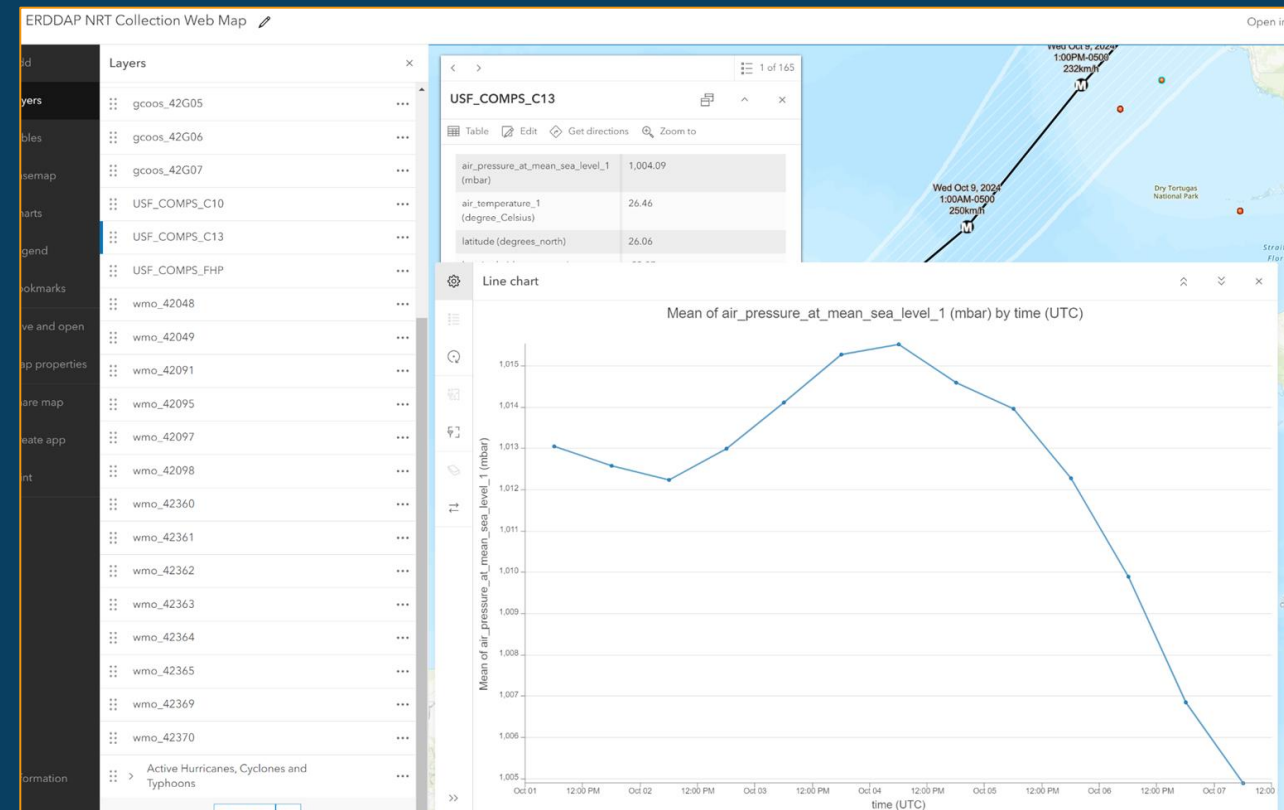
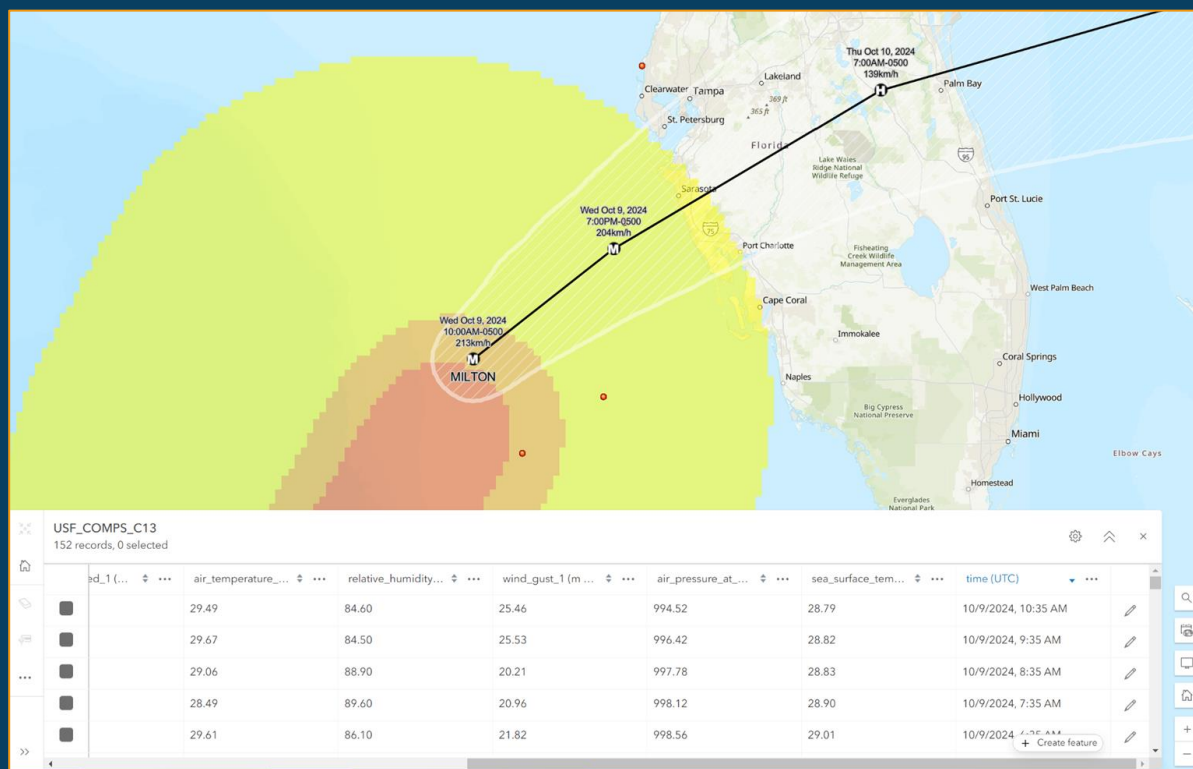
 Edit

Gulf of Mexico Coastal Ocean Observing System
(GCOOS)

1. Query the current user's feature service items for content tagged "e2a_nrt".
2. Use the tag starting with "https://" as the base URL, use the tag starting with did_ as the dataset ID.
3. Construct update url with base url, dataset id, queried for T -7 days.
4. Pass the generated URL and Service Item ID to Overwrite Feature Service.

Near-Real-Time ERDDAP Data on AGOL

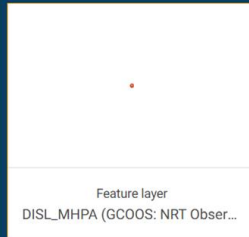
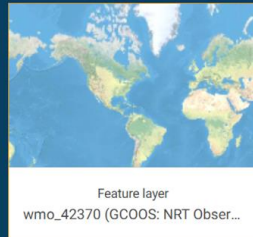
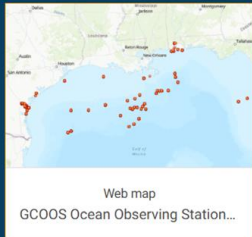
NRT Test 1: 28 datasets, updated hourly. NRT observations/measurements of Hurricane Milton with ArcGIS Online.



Near-Real-Time ERDDAP Data on AGOL

GCOOS ERDDAP NRT Collection

Hosted feature layers that are updated in near realtime to collect the latest ERDDAP data from erddap.gcoos.org.



[View gallery](#)

Tag

Filter options

- ☒ Erddap2agol (70)
- ☐ E2a_nrt (67)
- ☐ <https://erddap.gcoos.org/erddap/tabledap/> (67)
- ☐ Sea_surface_temperature_1 (38)
- ☐ Air_temperature_1 (26)
- ☐ Sea_surface_temperature_0 (26)
- ☐ Sea_water_direction_0 (26)
- ☐ Sea_water_speed_0 (26)
- ☐ Air_pressure_at_mean_sea_level_1 (23)
- ☐ Relative_humidity_1 (21)
- ☐ Sea_water_speed_1 (20)
- ☐ Upward_sea_water_velocity_0 (20)
- ☐ Sea_water_direction_1 (18)
- ☐ Sea_water_practical_salinity_1 (18)
- ☐ Wind_gust_1 (15)
- ☐ Wind_speed_1 (15)
- ☐ Mass_concentration_of_oxygen_in_sea_water_1 (13)
- ☐ Wind_direction_1 (13)
- ☐ Upward_sea_water_velocity_1 (12)
- ☐ Ocean_currents_instrument_1 (8)
- ☐ Sea Turtle Atlas (8)

Tags: [erddap2agol](#), [wmo_42390](#), [ocean_currents_instrument_1](#) Date created: 1/6/2025

Dataset

[wmo_42388 \(GCOOS: NRT Observing System\)](#)

GCOOS

Data for iios-station-wmo-42388 for the period 2020/01. 2020/01 time series data for iios-station-wmo-42388 platform served via Gulf of Mexico Coastal Observing System (GCOOS) Data Portal.. wmo_42388 w...

Type: **Feature Service**

Date updated: 1/27/2025

Tags: [erddap2agol](#), [wmo_42388](#), [sea_water_direction_0](#), u... Date created: 1/6/2025

Dataset

[wmo_42373 \(GCOOS: NRT Observing System\)](#)

GCOOS

Data for iios-station-wmo-42373 for the period 2020/01. 2020/01 time series data for iios-station-wmo-42373 platform served via Gulf of Mexico Coastal Observing System (GCOOS) Data Portal.. wmo_42373 w...

Type: **Feature Service**

Date updated: 1/23/2025

Tags: [erddap2agol](#), [wmo_42373](#), [sea_water_direction_0](#), u... Date created: 1/6/2025

Dataset

[wmo_42936 \(GCOOS: NRT Observing System\)](#)

GCOOS

Data for iios-station-wmo-42936 for the period 2020/01. 2020/01 time series data for iios-station-wmo-42936 platform served via Gulf of Mexico Coastal Observing System (GCOOS) Data Portal.. wmo_42936 w...

Type: **Feature Service**

Date updated: 1/27/2025

Tags: [erddap2agol](#), [wmo_42936](#), [sea_water_direction_0](#), u... Date created: 1/6/2025

Other uses of tags...

GIS AutoAdmin: Automated Collaboration CI



CETACEAN Data Repository

Compilation of Environmental, Threat, and Animal Data for Cetacean Population Health Analyses Platform

Last updated: Apr 10, 2025 |  Viewable by: Everyone (public)

Tags

 Edit

[GCOOS](#) [thematic](#)

Preview ...



GCOOS GIS



Collaborative Work Group: STA/CET (CWG1)

Collaborative Work Group 1 is a general purpose shared update group for editing datasets.

Last updated: Apr 15, 2025 |  Viewable by: Organization |  Shared Update  Partnered

Tags

 Edit

[functional](#) [GCOOS](#)

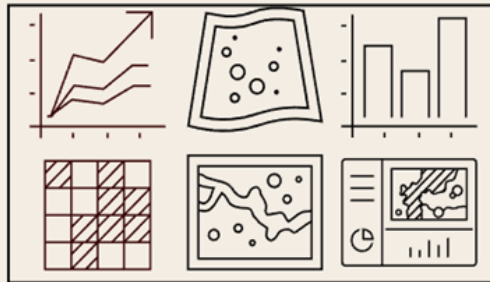
Preview ...



GCOOS GIS

GIS AutoAdmin: Automated Collaboration CI

Services in development

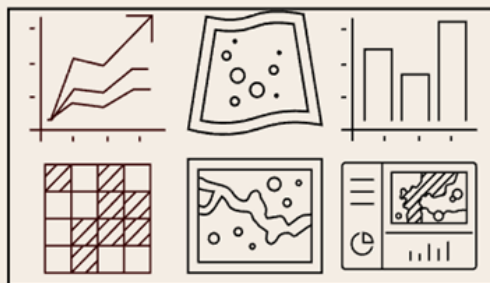


Functional
Content Group

Attributes	Members	Visibility
Partnered Collaboration Shared Update Distributed Collaboration	Any	Organization

The assignment of data to a functional content group facilitates the application of methods that enforce interoperability, discoverability, and usability.

Services in production



Thematic Content
Group

Attributes	Members	Visibility
Partnered Collaboration	Primary Site Administrator	Everyone

GIS AutoAdmin: Automated Collaboration CI

Share

 Edit



+

A

Owner

 Change owner



jerad.king

Folder

 Move

 jerad.king

Tags

 Edit

erddap2agol, did_deepwater_00050187_bdo,
temperature, numberOfLevel, latitude, depth,
salinity, time, longitude, qualityFlag,
 <http://gcoos5.geos.tamu.edu/erddap//tabledap/>
, TTG, cmd_publish

☐ "Deepwater CTD - 00022.ctd.nc - 28.75N, -88.98W - 1994-04-20"

The Minerals Management Service (MMS) of the U. S. Department of the Interior funded the Deepwater Physical Oceanography Reanalysis and Synthesis of Historical Data Study in the Gulf of Mexico. MMS awarded the contract to the Texas A&M Research Found...

 Feature layer (hosted) | Item updated: May 6, 2025



Jerad King

 Organization +  Groups (1)

Preview

...

☐ "Deepwater CTD - 00050187.bdo.nc - 23.33N, -82.48W - 1932-02-00"

The Minerals Management Service (MMS) of the U. S. Department of the Interior funded the Deepwater Physical Oceanography Reanalysis and Synthesis of Historical Data Study in the Gulf of Mexico. MMS awarded the contract to the Texas A&M Research Found...

 Feature layer (hosted) | Item updated: May 6, 2025



Jerad King

 Organization +  Groups (1)

Preview

...

☐ "Deepwater CTD - 00050259.bdo.nc - 25.58N, -85.33W - 1932-02-17"

The Minerals Management Service (MMS) of the U. S. Department of the Interior funded the Deepwater Physical Oceanography Reanalysis and Synthesis of Historical Data Study in the Gulf of Mexico. MMS awarded the contract to the Texas A&M Research Found...

 Feature layer (hosted) | Item updated: May 6, 2025



Jerad King

 Organization +  Groups (1)

Preview

...

☐ UGOS-3 - HFR: Isla Contoy, Mexico (ISCY), Ideal, Long Range Radial Currents - Real-time

Isla Contoy, Mexico(ISCY) - Ideal - Long Range Radial Currents. Radial Vectors quality controlled using HFRadarPyPython toolbox. UGOS-3 - HFR: Isla Contoy, Mexico (ISCY), Ideal, Long Range Radial Currents - Real-time was generated with erddap2agol fr...

 Feature layer (hosted) | Item updated: May 1, 2025



GIS AutoAdmin: Automated Collaboration CI

```
Added "Deepwater CTD - 00050187.bdo.nc - 23.33N, -82.48W - 1932-02-00" to group '<Group title:"AutoAdmin Functional Testing Gro
up" owner:jerad.king>'.
Set sharing level to everyone for "Deepwater CTD - 00050187.bdo.nc - 23.33N, -82.48W - 1932-02-00".
Executing command 'publish' for item: 9c6ec598b0754c808bcc41efd0b1524d
```

```
Attempting to share to groups []
```

```
Added "Deepwater CTD - 00050259.bdo.nc - 25.58N, -85.33W - 1932-02-17" to group '<Group title:"AutoAdmin Functional Testing Gro
up" owner:jerad.king>'.
Set sharing level to everyone for "Deepwater CTD - 00050259.bdo.nc - 25.58N, -85.33W - 1932-02-17".
```

```
PS C:\Users\jerad\Desktop\gis_autoadmin\gis_autoadmin>
```

AutoAdmin Functional Testing Group

[Overview](#)[Content](#)[Members](#)[Settings](#)[+ Add items to group](#)

Filters

▼ Group categories

No group categories yet

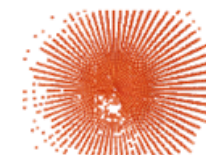
Categories allow group members to organize items consistently and provide a simple way to browse content in the group.

[Set up group categories](#)☐ 1-1 of 1 List Date added

☐ UGOS-3 - HFR: Isla Contoy, Mexico (ISCY), Ideal, Long Range Radial Currents - Real-time

Isla Contoy, Mexico(ISCY) - Ideal - Long Range Radial Currents. Radial Vectors quality controlled using HFRadarPyPython toolbox. UGOS-3 - HFR: Isla Contoy, Mexico (ISCY), Ideal, Long Range Radial Currents - Real-time was generated with erddap2agol fr...

 Feature layer (hosted) | Item updated: May 1, 2025



Jerad King

 Organization +  Groups (1)

Preview

...

GIS AutoAdmin: Automated Collaboration CI

AutoAdmin Thematic Testing Group 

Overview

Content

Members

Settings

+ Add items to group

 Search group content

Filters

Group categories

No group categories yet

Categories allow group members to organize items consistently and provide a simple way to browse content in the group.

[Set up group categories](#)

Item type

> Maps

> Layers

Scenes

☐ 1-4 of 4

 List

 Date added

☐ "Deepwater CTD - 00050187.bdo.nc - 23.33N, -82.48W - 1932-02-00"

The Minerals Management Service (MMS) of the U. S. Department of the Interior funded the Deepwater Physical Oceanography Reanalysis and Synthesis of Historical Data Study in the Gulf of Mexico. MMS awarded the contract to the Texas A&M Research Found...

 Feature layer (hosted) | Item updated: May 6, 2025



GCOOS GIS

 Everyone (public) +  Groups (1)

[Preview](#)

...

☐ "Deepwater CTD - 00022.ctd.nc - 28.75N, -88.98W - 1994-04-20"

The Minerals Management Service (MMS) of the U. S. Department of the Interior funded the Deepwater Physical Oceanography Reanalysis and Synthesis of Historical Data Study in the Gulf of Mexico. MMS awarded the contract to the Texas A&M Research Found...

 Feature layer (hosted) | Item updated: May 6, 2025



GCOOS GIS

 Everyone (public) +  Groups (1)

[Preview](#)

...

Access GCOOS Resources

Homepage: gcoos.org

Data Portal: data.gcoos.org

CETACEAN: cetacean.gcoos.org

GCOOS GIS Enterprise: gis.gcoos.org

GCOOS GIS Online: gcoos.maps.arcgis.com

erddap2agol: github.com/GCOOS/erddap2agol

gis_autoadmin: github.com/GCOOS/gis_autoadmin

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Jerad King

Mid/Near-term development focuses griddap Capabilities

- Create griddap compatible requests
- Vectorize griddap data?
 - H3?
- Continued improvements to core functionality

Long-term development focuses

- Non-moving window option for updating datasets.
 - Append data to existing HFL at desired frequency
- Spatial queries
 - Bounding box from AGOL Content Item
- Switch HFL to view during update process
- Version 1.0: Full CUI and Programmatic Use