

Great Lakes Acoustic Telemetry Observation System Website




User's Manual

MAY 2012

GLATOS
Great Lakes Acoustic Telemetry Observation System
Unraveling the Mysteries of Great Lakes Fish Behavior

GLATOSWeb compiles acoustic telemetry project information and helps users learn more about ongoing acoustic telemetry projects in the Great Lakes. Scientists have been implanting Great Lakes fish with transmitters and, like the GPS on a car, have been tracking fish movement through a network of receivers placed on the bottom of the lakes. The purpose of GLATOS is to help scientists and the public learn more about Great Lakes acoustic telemetry projects and their contribution to research.

[What is Acoustic Telemetry?](#)
[About GLATOS](#)
[Have Data?](#)

 EXPLORE	 SEARCH	 FOUND A TAG?
Explore a map of GLATOS projects.	Search the GLATOS database by keyword.	Reward! Click here for instructions on what to do next.

[Login or Register to Join the GLATOS Network](#)

Great Lakes Restoration
GLOS

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About the Great Lakes Acoustic Telemetry Observation System Website

GLATOSWeb compiles acoustic telemetry project information and helps users learn more about ongoing acoustic telemetry projects in the Great Lakes. Scientists have been implanting Great Lakes fish with transmitters and, like the GPS on a car, have been tracking fish movement through a network of receivers placed on the bottom of the lakes. The purpose of GLATOS is to help scientists and the public learn more about Great Lakes acoustic telemetry projects and their contribution to research.

Getting Started

It is strongly recommended that the user works through the Great Lakes Acoustic Telemetry Observation System website user's manual to best understand the application's capabilities.

Visit: <http://data.glos.us/glatos>

1 WELCOME SCREEN

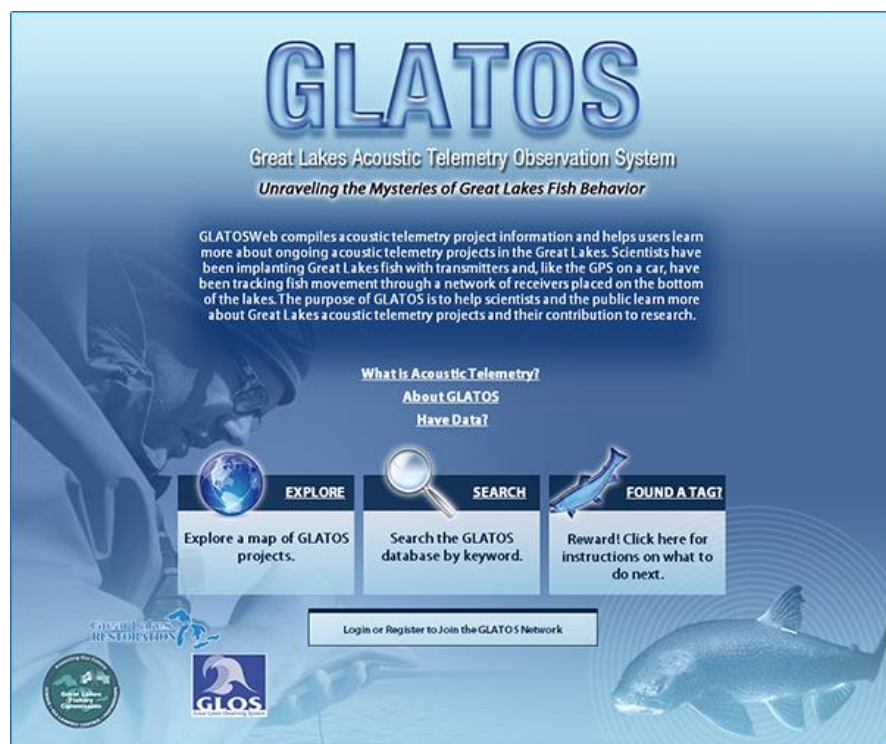
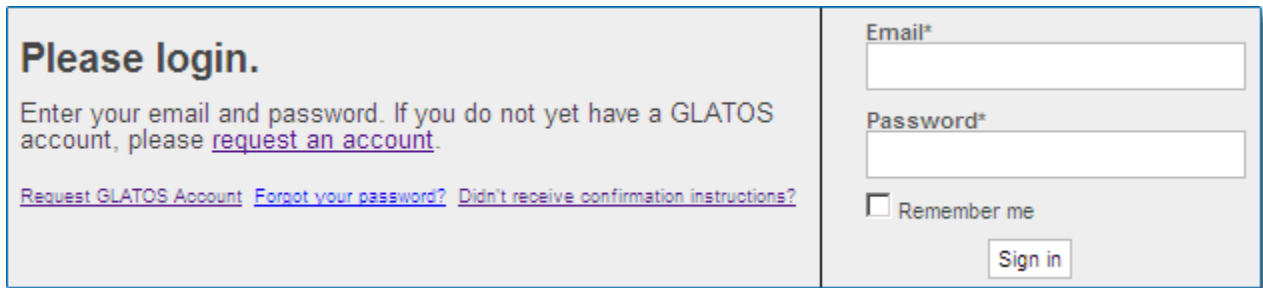


Figure 1-1 GLATOS Welcome Screen

Figure 1-1 displays the welcome screen of the GLATOS website. The page contains a brief description of the site as well as the following links:

- **What is Acoustic Telemetry?** — In depth explanation of the science behind acoustic telemetry.
- **About GLATOS** — Description of GLATOS, mission statement, contact information and a list of GLATOS projects.
- **Have Data?** — Access to the GLATOSWeb Data Submittal Package (*Note: For Investigators only*). This package contains templates for the entry of project information, receiver deployments/locations, and transmitter/tag details to be submitted to GLATOSWeb.
- **Explore** — Interactive map displaying receiver locations. Displayed receivers can be filtered by project, operating schedule, acoustic frequency, status or date.
- **Search** — Search for terms associated with specific projects. Users with *Researcher* and *Investigator* accounts have option to search for sensor tags.
- **Found a Tag?** — Individuals who have caught a tagged fish can report their catch to arrange reward delivery and tag return.
- **Login or Register to Join the GLATOS Network** — Login page for registered users as well as access to form for those who wish to register.

2 LOGIN / REGISTER / EDIT ACCOUNT



Please login.

Enter your email and password. If you do not yet have a GLATOS account, please [request an account](#).

[Request GLATOS Account](#) [Forgot your password?](#) [Didn't receive confirmation instructions?](#)

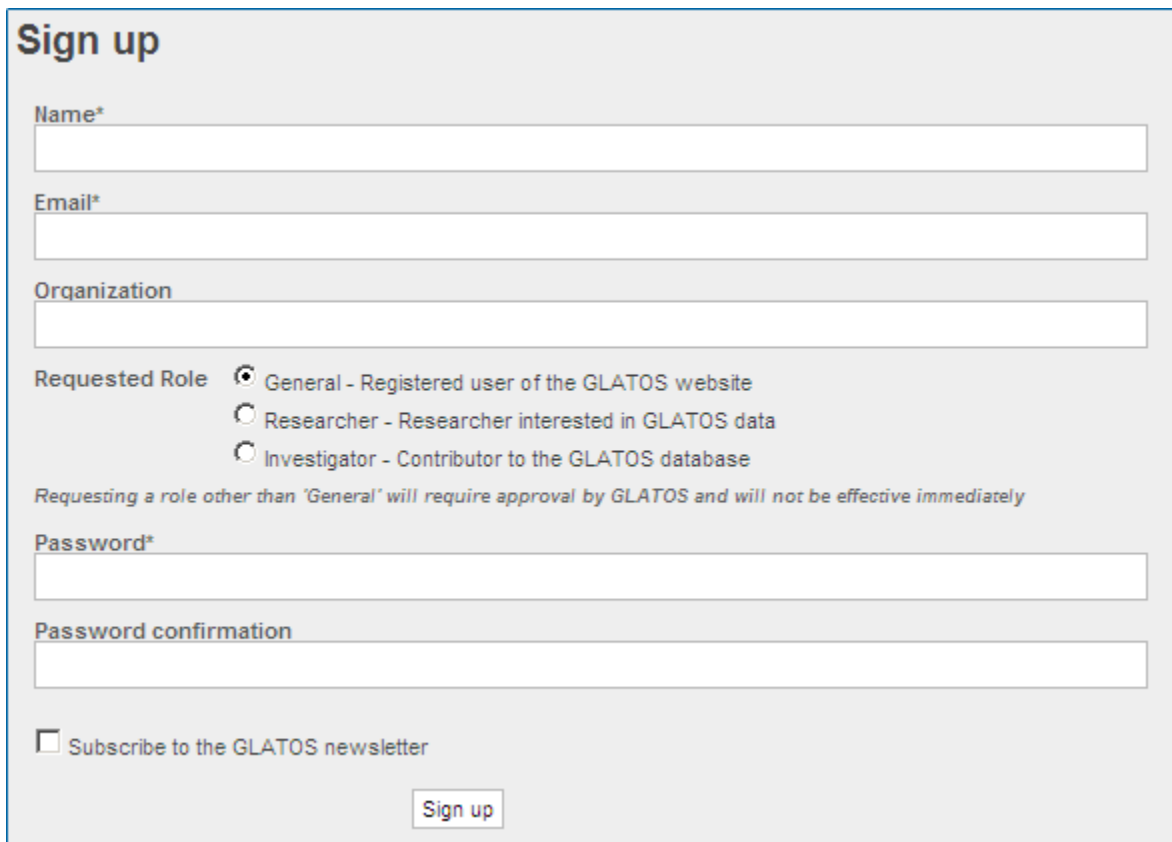
Email*

Password*

Remember me

Figure 2-1 Login Form

Figure 2-1 displays the login form. The user must enter their email and password to login or click on the corresponding link to request an account. Figure 2-2 displays the form to fill out in order to request an account. After submitting a request, the user will receive a confirmation email containing a link to activate the account. Requesting a role other than *General* will require approval by GLATOS and will not be effective immediately.



Sign up

Name*

Email*

Organization

Requested Role General - Registered user of the GLATOS website
 Researcher - Researcher interested in GLATOS data
 Investigator - Contributor to the GLATOS database

Requesting a role other than 'General' will require approval by GLATOS and will not be effective immediately

Password*

Password confirmation

Subscribe to the GLATOS newsletter

Figure 2-2 Sign Up Form

Edit User

Name*

Email*

Organization

Address

City

State

Zipcode

Phone

Requested Role

- General - Registered user of the GLATOS website
- Researcher - Researcher interested in GLATOS data
- Investigator - Contributor to the GLATOS database

Requesting a role other than 'General' will require approval by GLATOS and will not be effective immediately

Password

Leave blank if you don't want to change it

Password confirmation

Current Password

We need your current password to confirm your changes

Figure 2-3 Edit Account Form

Once logged in, *Logout* and *Edit Account* links will appear in the menu bar at the top of each page. Figure 2-3 displays the Edit Account form. Users can use this form to edit their contact information, request a different user role and change their password.

3 EXPLORE

With the Explore tool, users are able to view a map displaying the receivers used to track tagged fish.

3.1 Map Navigation

Mouse-based map navigation can happen in one of three ways:

1. Grab and Pan – position the mouse over the map and click and hold the left mouse button to pan across the map.
2. Using the Navigation Control – Click on an arrow to pan in that direction. Click on the plus and minus symbols to zoom in and out of the map. Click the sphere icon to zoom out to the full extent of the map.
3. Mouse Scroll Wheel – with the mouse positioned over the map, rotate the scroll wheel forward to zoom in and backward to zoom out.



Figure 3-1
Navigation Control

*NOTE: Only registered users with **Researcher** or **Investigator** accounts can zoom all the way in. Users with registered **Guest** accounts can only zoom in to a certain level.*

3.2 Map Background / Reset Map Zoom

Click the *Change Map Background* icon (located in the upper right corner) to toggle between satellite imagery and street view.

Once zoomed-in to a particular area, click the *Reset Map Zoom* icon (positioned next to the *Change Map Background* icon) to return to the full extent of the map.



Figure 3-2 Satellite Imagery View

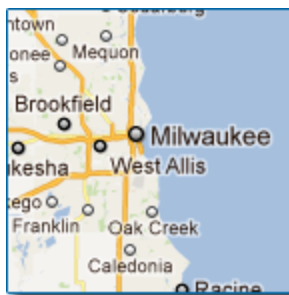


Figure 3-3 Street Map View

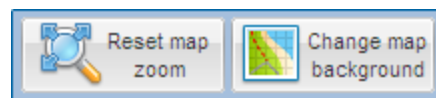


Figure 3-4 Reset Map Zoom & Change Map Background Icons

3.3 Side Panel

Located on the left side of the screen, the side panel (Figure 3-5) allows users to filter out specific receivers based certain criteria.

Hide the side panel by clicking on the icon located in the top right with the two chevrons.

Toggle the checkboxes to display receivers by *project*, *operating schedule*, and *acoustic frequency*.

The user can also filter by *status*, *date*, or *year*. For these filters can only be enabled one at a time.

3.4 Receivers

Receivers are represented on the map by small orange points. Place your cursor over a point to view the associated project name and receiver ID (Figure 3-6). Click on a point view additional information and a link to visit the project home page (Figure 3-7).



Figure 3-6 Cursor Placed over Point

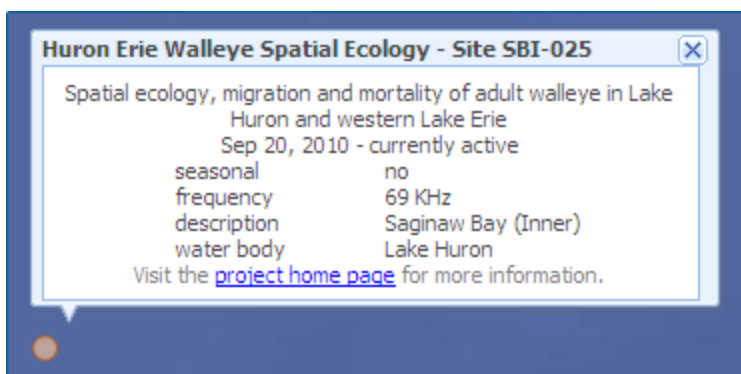


Figure 3-7 After Clicking on Point

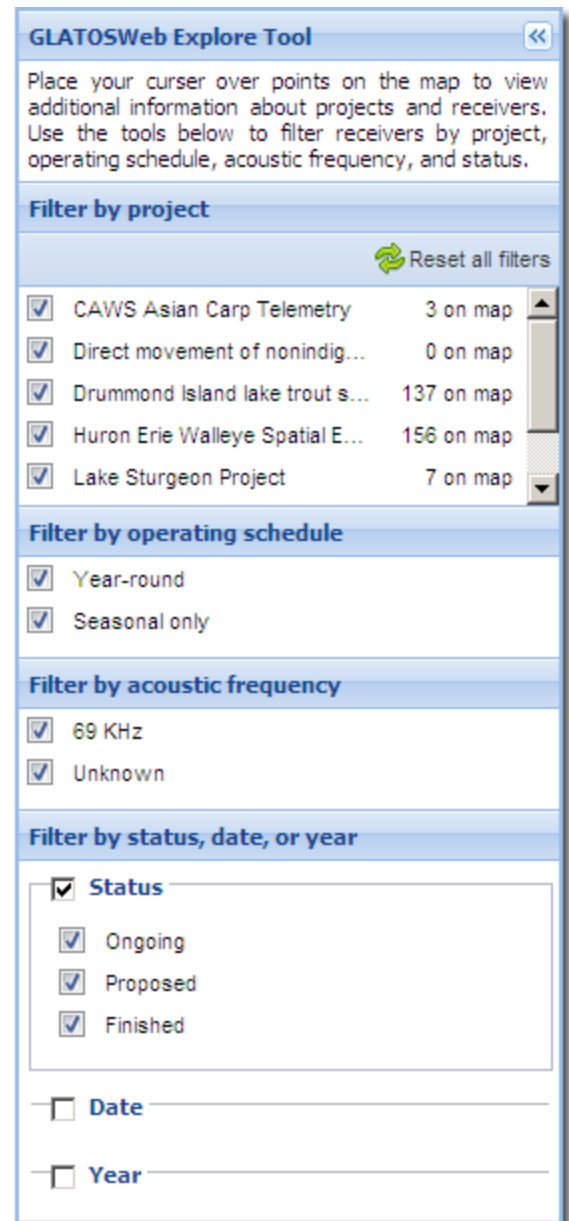
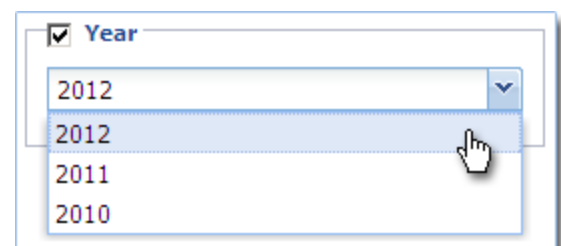
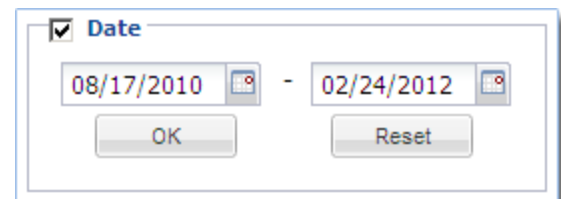


Figure 3-5 Side Panel

Figures below display Date and Year filters enabled.



4 SEARCH

The search tool allows the user to search the GLATOS database for a specific study or sensor tag.

4.1 Studies

Enter a search term to query into the textbox and click on the search button. In Figure 4-1, the user has searched for the term “migration” and two studies were found. To view full information on a specific study, click on the corresponding link.

The screenshot shows a web interface for searching studies. At the top, there is a search bar with the text "migration" and a "Search" button. Below the search bar, there are examples of search terms: "Sturgeon (species)", "St Marys River" (location)", and "Holbrook (investigator)". The search results are displayed under the heading "Studies" with "2 results". The first result is "St Marys River Sea Lamprey Migration" with the species "Sea Lamprey" and the title "Spatial distribution and abundance of adult sea lampreys during spawning migration through the St. Marys River". The second result is "Huron Erie Walleye Spatial Ecology" with the species "Walleye" and the title "Spatial ecology, migration and mortality of adult walleye in Lake Huron and western Lake Erie".

Studies	
2 results	
St Marys River Sea Lamprey Migration	
Species	Sea Lamprey
Title	Spatial distribution and abundance of adult sea lampreys during spawning migration through the St. Marys River
Huron Erie Walleye Spatial Ecology	
Species	Walleye
Title	Spatial ecology, migration and mortality of adult walleye in Lake Huron and western Lake Erie

Figure 4-1 Studies Search

4.2 Tags

Note: Only registered users with Researcher or Investigator roles have access to this tool.

To search for a specific sensor tag, enter a full code space, internal or external tag number and click on the search button. In Figure 4-2, the user has performed a search for the code space "A69-9002". The results are initially listed alphabetically by project name. Click on any column header to have the results ordered by that field. To filter down the results, enter a term into the **Filter Results** text box. The user also has the option of copying the results to the clipboard, exporting them to CSV, Excel, or PDF files or viewing them in a printer-friendly format. To view more information about the study associated with the tag, click on the corresponding link.

Search for Tags

Enter tags you would like to search, one per line. These can be both internal and external tags.

A69-9002

Search

[Looking for the study/deployment search?](#)

Example:
A89-9002-4507 (full code space)
31942 (internal tag)
4267 (external tag)

139 results

Copy

CSV

Excel

PDF

Print

Show entries
Filter Results:

Project	Code Space	Code	External Codes	Species	Release Location	Investigator	Study Page
Drummond Island lake trout spawning	A89-9002-16150	16150		Lake Trout	Scammon Cove, Lake Huron	Thomas Binder (tr.binder@gmail.com)	Link
Drummond Island lake trout spawning	A89-9002-16151	16151		Lake Trout	Scammon Cove, Lake Huron	Thomas Binder (tr.binder@gmail.com)	Link
Drummond Island lake trout spawning	A89-9002-16152	16152		Lake Trout	Scammon Cove, Lake Huron	Thomas Binder (tr.binder@gmail.com)	Link
Drummond Island lake trout spawning	A89-9002-16153	16153		Lake Trout	Scammon Cove, Lake Huron	Thomas Binder (tr.binder@gmail.com)	Link
Drummond Island lake trout spawning	A89-9002-16155	16155		Lake Trout	Scammon Cove, Lake Huron	Thomas Binder (tr.binder@gmail.com)	Link
Drummond Island lake trout spawning	A89-9002-16157	16157		Lake Trout	Scammon Cove, Lake Huron	Thomas Binder (tr.binder@gmail.com)	Link
Drummond Island lake trout spawning	A89-9002-16158	16158		Lake Trout	Scammon Cove, Lake Huron	Thomas Binder (tr.binder@gmail.com)	Link
Drummond Island lake trout spawning	A89-9002-16159	16159		Lake Trout	Scammon Cove, Lake Huron	Thomas Binder (tr.binder@gmail.com)	Link
Drummond Island lake trout spawning	A89-9002-16180	16180		Lake Trout	Scammon Cove, Lake Huron	Thomas Binder (tr.binder@gmail.com)	Link
Drummond Island lake trout spawning	A89-9002-16181	16181		Lake Trout	Scammon Cove, Lake Huron	Thomas Binder (tr.binder@gmail.com)	Link

Showing 1 to 10 of 139 entries

First
Previous
1
2
3
4
5
Next
Last

Figure 4-2 Search for Tags

5 REPORT TAG

For those who have that have caught a tagged fish, this tool allows them to fill out and submit a form in order to report it to the necessary authorities. Fields demarked with an asterisk are required.

1 - Contact Information

Full Name*

Address*

City*

State/Province*

Zip Code*

Telephone*

Email

Subscribe to the GLATOS email list

If you don't have an email address please call the Hammond Bay Biological Station at 989-734-4768 to report the tag.

The user begins by entering his or her contact information into the form (Figure 5-1).

Figure 5-2 displays additional required fields. The calendar will appear after the user clicks on the calendar icon, or inside of the corresponding text box. After clicking on a day, the text box will be updated with the desired date.

Figure 5-1 Beginning of Report Tag Form

2 - Type of Fish *

Walleye
 Lake Trout
 Sturgeon
 Sea Lamprey
 Asian Carp
 Other

3 - How did you find the tag? *

Caught - Commercial Fishing
 Caught - Recreational Fishing
 Caught - Tribal Fishing
 Other

4 - What did you do with the fish? *

Caught and kept the fish
 Caught and released the fish
 Other

5 - When did you catch the fish? *

Su	Mo	Tu	We	Th	Fr	Sa
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29			

Figure 5-2 Report Tag Form Contd.

6 - Where did you catch the fish?

Capture Location Description (e.g., north of Blue Water Bridge)

Depth of water (feet)

Coordinates (click approximate location on map)

7 - What was the length of the fish?

Fish Length (inches)

8 - Additional Comments

Comments

Zoom in and out of the map until you locate the approximate location the tag was recovered. Click on that location.




Figure 5-3 Report Tag Form - Location Section

Figure 5-3 displays more of the Report Tag form. Users have the option to enter the approximate coordinates of where the fish was caught. To do so, users can click on a location on the map and the corresponding text box will be populated.

9 - Tag Information (see photo on right)

Does the fish have an internal tag?

Yes No

Is the Tag ID legible?

Yes No

Internal ID Tag Number*

31942

Does the fish have any external tags?
(a fish may have 0 or more)

Yes No

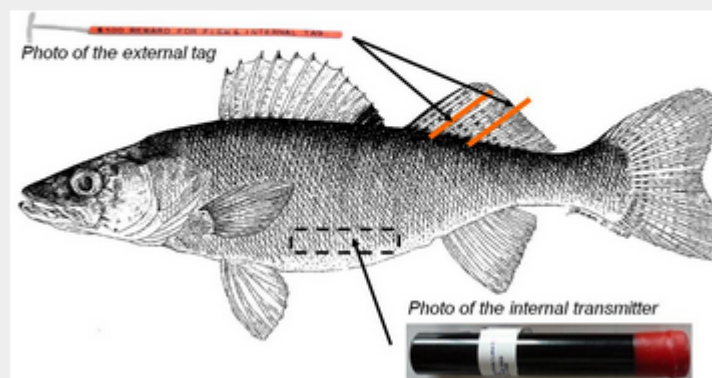
46587

External Tag #1

64819

External Tag #2

If you haven't done so already, immediately remove the internal transmitters from the fish and rinse with water. Store the transmitter at room temperature. **DO NOT FREEZE.** You may keep the fish!



Note: Rewards are offered for the INTERNAL tags only!

10 - Did you take any pictures of the fish?

Yes No

Please email the images to: qlatosphotos@qlfc.org and paste this text into the body of the email:

Name: George Fisherman

Internal Tag: 31942

External Tag(s): 46587,64819

Comments:

Figure 5-4 Final Portion of Report Tag Form

For the final portion of the Report Tag form, the user is asked if the fish has an internal tag and if so, if it is legible. Also, the user can specify if the fish has any external tags and enter the tag number(s) if it does. If the user has taken a picture of the fish, they can paste the content that has been automatically generated from the form (shown at the bottom of Figure 5-4) into an email that should be sent to the given email address.

Submission complete. Thank you for your cooperation.

Here is information about the tag you reported:

GLATOS Project Name	Huron Erie Walleye Spatial Ecology
GLATOS Project Title	Spatial ecology, migration and mortality of adult walleye in Lake Huron and western Lake Erie
Species Name	Walleye
Full Tag Code	A69-9001-31942
Tag Code	31942
External Tags	
Release Location	Maumee River
Release Date	2011-03-28
Length (inches)	
Weight (pounds)	
Project Investigators	John Dettmers (jdettmers@glfc.org)

Figure 5-5 Tag Report Submitted Screen

Figure 5-5 displays the screen that appears after a tag report has been submitted. A researcher will then contact the user to arrange reward delivery and tag return.

6 HAVE DATA

Only users that are signed in as Researcher or Investigator are able to download the data submittal package. Figures 6-1 and 6-2 display the two views.

Have Data?

Are you a researcher conducting acoustic telemetry studies within the Laurentian Great Lakes Basin? Are you ready to submit data about receiver locations (past, present, or future), or transmitters? GLATOSWeb wants you!

The first step is to register as an Investigator [here](#). Once your registration is approved, a link will appear on this page to download the GLATOSWeb Data Submittal Package.

The GLATOSWeb Data Submittal Package contains templates for the entry of project information, proposed receiver deployments, actual receiver locations, and transmitter/tag details. The package, a compressed .ZIP archive, also contains descriptions of necessary and recommended data and instructions for entering information into the templates and for submittal of the formatted information to GLATOSWeb.

Please direct questions about data submittal to GLATOSWeb@glfc.org

Figure 6-1 Have Data - Not Signed In

Have Data?

Are you a researcher conducting acoustic telemetry studies within the Laurentian Great Lakes Basin? Are you ready to submit data about receiver locations (past, present, or future), or transmitters? GLATOSWeb wants you!

[Download](#) your GLATOSWeb Data Submittal Package
[Submit](#) your completed GLATOSWeb Data Submittal Package

The GLATOSWeb Data Submittal Package contains templates for the entry of project information, proposed receiver deployments, actual receiver locations, and transmitter/tag details. The package, a compressed .ZIP archive, also contains descriptions of necessary and recommended data and instructions for entering information into the templates and for submittal of the formatted information to GLATOSWeb.

Please direct questions about data submittal to GLATOSWeb@glfc.org

Figure 6-2 Have Data - Signed In

The **Download** link retrieves a ZIP file with instructions. The **Submit** link brings you to the page displayed in Figure 6-3 where the user can choose the ZIP file to upload.

The uploaded file should have the extension zip and be the result of clicking on the Create Submission Package button in GLATOSWeb_DataForms.xlsm.

GLATOSWeb_Submittal.zip

Figure 6-3 Data Submit Page

Figure 6-4 displays the error that is generated when a file with incorrect format is chosen.

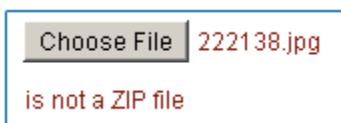


Figure 6-4 Data Submit Error

Figure 6-5 displays what is shown when an upload is successful.

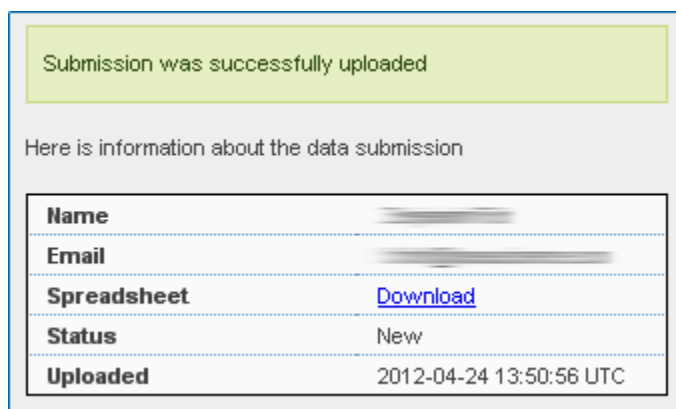


Figure 6-5 Data Submit Success

Figure 6-6 displays the email that is received by the user after successfully submitting data. The email also contains a link to a page where the user can access the submission.

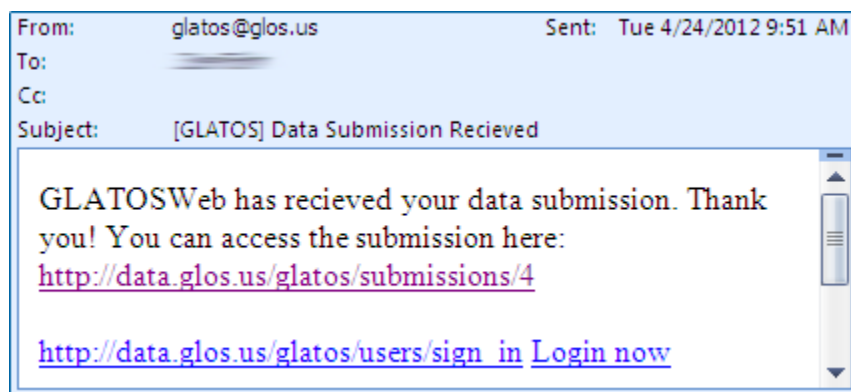


Figure 6-6 Data Submission Success Email

7 EDIT PROJECT

In order to edit a particular project, the logged-in user must be the one that submitted the Data Submission Templates for it. If the user is an administrator, they are able to edit any project. Figure 7-1 displays the project information page and the link that is visible when editing is allowed.

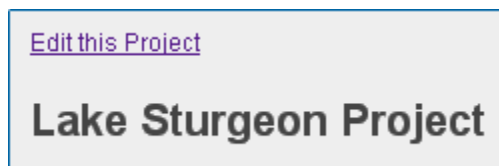


Figure 7-1 Edit Project Link

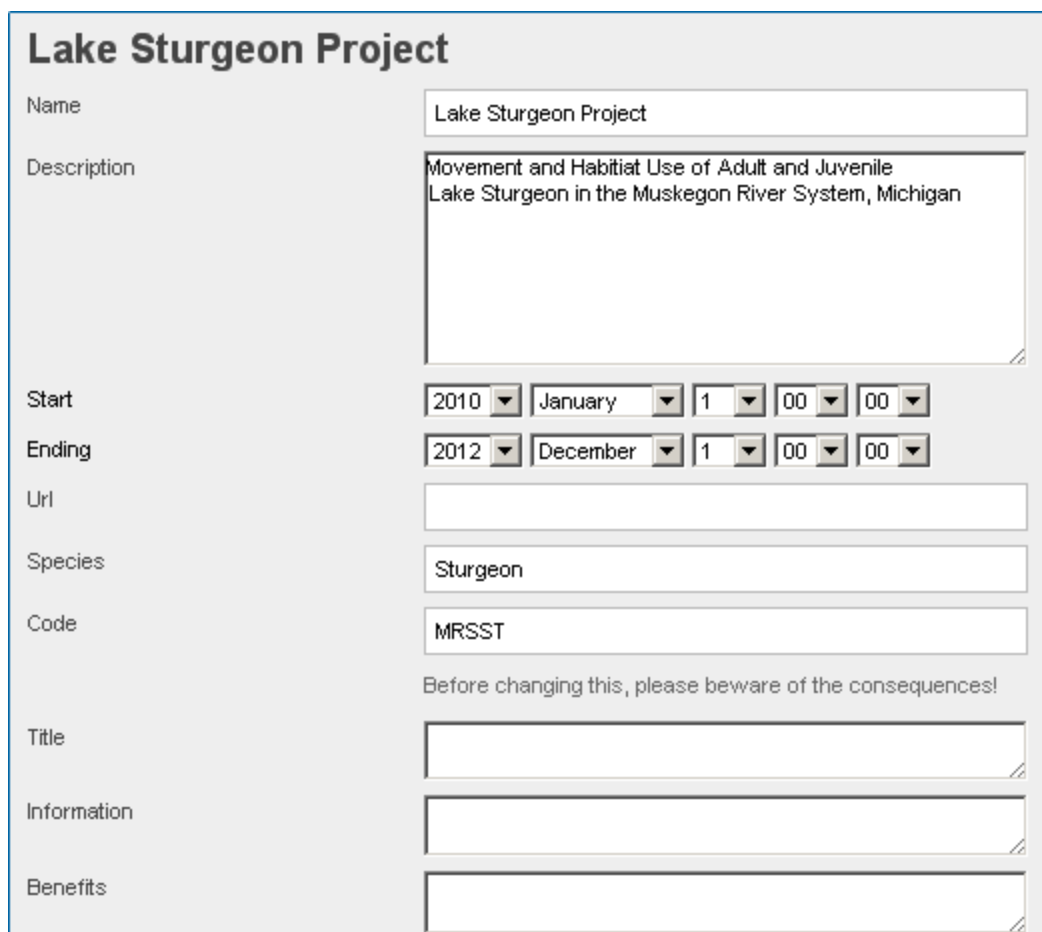
A screenshot of the "Lake Sturgeon Project" edit form. The form has a title "Lake Sturgeon Project" at the top. Below the title, there are several fields for editing project information. The "Name" field contains "Lake Sturgeon Project". The "Description" field contains "Movement and Habitat Use of Adult and Juvenile Lake Sturgeon in the Muskegon River System, Michigan". The "Start" field is a date picker set to 2010, January 1, 00:00. The "Ending" field is a date picker set to 2012, December 1, 00:00. The "Url" field is empty. The "Species" field contains "Sturgeon". The "Code" field contains "MRSST". Below the "Code" field, there is a warning message: "Before changing this, please beware of the consequences!". The "Title" field is empty. The "Information" field is empty. The "Benefits" field is empty.

Figure 7-2 Edit Project Form



Organizations	<input type="text" value="Organization One;=Organization Two;=Organization Three"/>
	Seperate indivial entries with a '=;='
Funding	<input type="text" value="Funding One;=Funding Two;=Funding Three"/>
	Seperate indivial entries with a '=;='
Objectives	<input type="text" value="Objective One;=Objective Two;=Objective Three"/>
	Seperate indivial entries with a '=;='
Investigators	<input type="text" value="Investigator One;=Investigator Two;=Investigator Three"/>
	Seperate indivial entries with a '=;='
First Image	<input type="button" value="Choose File"/> No file chosen HECVL_1.jpg 
Second Image	<input type="button" value="Choose File"/> No file chosen HECVL_2.jpg 
Third Image	<input type="button" value="Choose File"/> No file chosen None
Fourth Image	<input type="button" value="Choose File"/> No file chosen None
Fifth Image	<input type="button" value="Choose File"/> No file chosen None
	<input type="button" value="Update"/>

Figure 7-3 Edit Project Form (Continued)

Figure 7-3 displays the bottom portion of the Edit Project form. Note that multiple-item entries for Organizations, Funding, Objectives, and Investigators should use the special string “=;=” to separate the individual items. For example, GLATOSWeb will recognize the Funding entry “Funding One=;=Funding Two=;=Funding Three” as a list of three items and display it accordingly (Figure 7-4). Any existing pictures will be pictured as thumbnails. After updating, uploaded pictures will replace existing ones.

Project was successfully updated.

[Edit this Project](#)

Lake Sturgeon Project




Project Title:

GLATOS Project Code: MRSST

Project Duration: January 2010 - December 2012





Project Description: Movement and Habitat Use of Adult and Juvenile Lake Sturgeon in the Muskegon River System, Michigan

Objectives:




-  Objective One
-  Objective Two
-  Objective Three

Management Benefits:




Investigators:

-  MRS Admin 9 () - user9@asascience.com
-  Investigator One
-  Investigator Two
-  Investigator Three

Participating Organizations:

-  Organization One
-  Organization Two
-  Organization Three

Funding:

-  Funding One
-  Funding Two
-  Funding Three

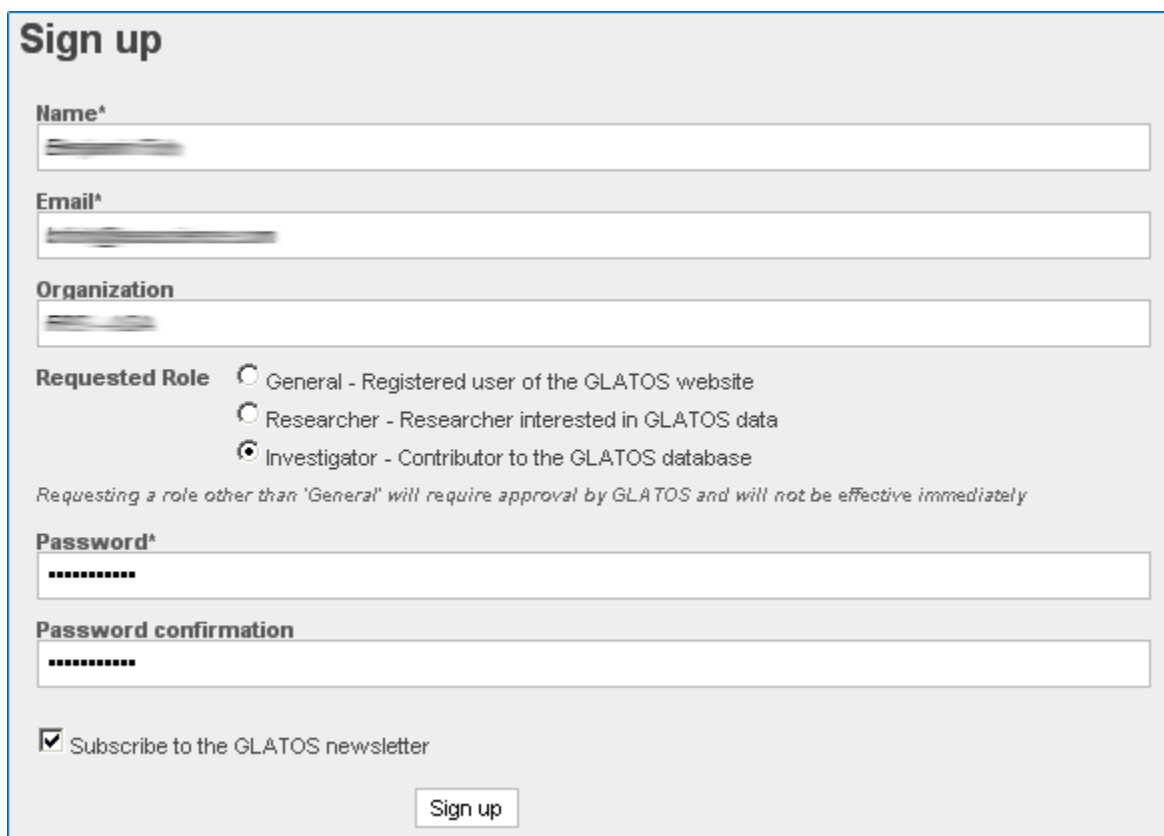
External URL:

Figure 7-4 Updated Project

Updating a project without choosing images to add will not replace existing images. To add an image to the project, the user must click the Choose File button and select the image to be uploaded. Existing images are not shown on the edit page.

8 SAMPLE REGISTRATION / SIGN IN

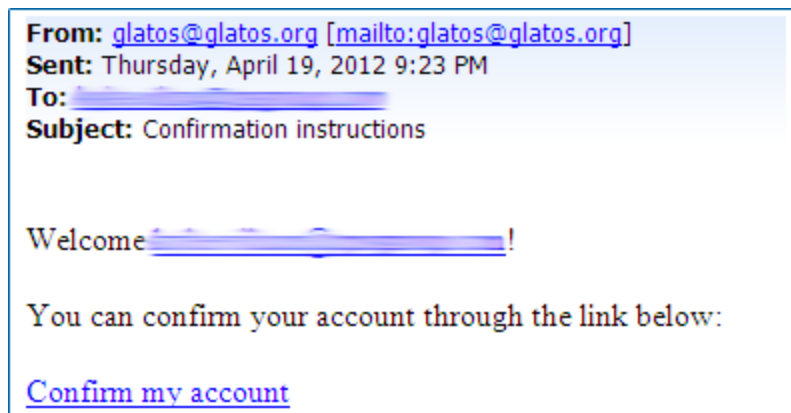
Figure 8-1 displays the form to fill out in order to request an account. Requesting a role other than *General* will require approval by GLATOS and will not be effective immediately.



The image shows a web form titled "Sign up". It contains several input fields and a list of radio buttons. The fields are: "Name*", "Email*", "Organization", "Password*", and "Password confirmation". The "Requested Role" section has three radio buttons: "General - Registered user of the GLATOS website", "Researcher - Researcher interested in GLATOS data", and "Investigator - Contributor to the GLATOS database". Below the radio buttons is a note: "Requesting a role other than 'General' will require approval by GLATOS and will not be effective immediately". At the bottom, there is a checked checkbox for "Subscribe to the GLATOS newsletter" and a "Sign up" button.

Figure 8-1 Sign Up Form

After submitting a request, the user will receive an email containing a link to confirm the account (Figure 8-2).



The image shows an email confirmation message. The header includes: "From: glatos@glatos.org [mailto:glatos@glatos.org]", "Sent: Thursday, April 19, 2012 9:23 PM", "To: [redacted]", and "Subject: Confirmation instructions". The body of the email says: "Welcome [redacted]!", "You can confirm your account through the link below:", and a blue underlined link: "[Confirm my account](#)".

Figure 8-2 Confirmation Email

9 ADMINISTRATION

9.1 Account Request

Each time a GLATOS account is requested, the administrator will receive a notification email only if the user requires approval. A Guest user does not require approval. All other users will require an administrator to login to the website and manually approve these users (Figure 9-1).

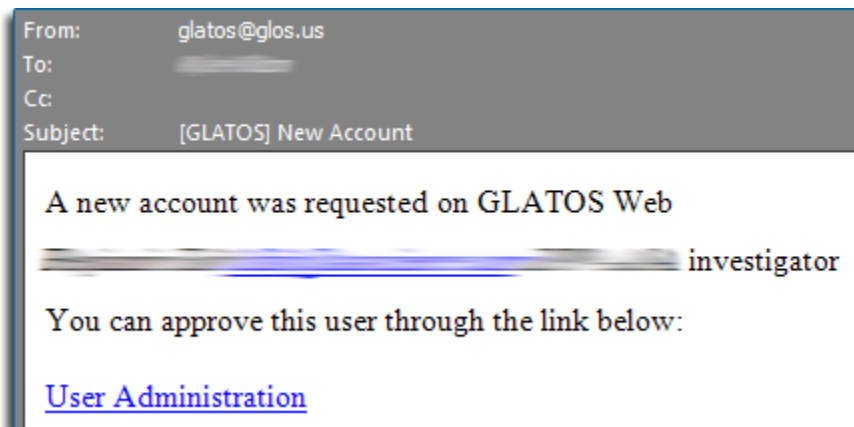


Figure 9-1 Account Request Email

This "User Grid" view is available to users with the "Administrator" role at <http://data.glos.us/glatos/users>.

Show 10 entries						
Name	Email	Organization	Confirmed?	Requested Role	Role	Actions
[Redacted]	[Redacted]	[Redacted]	false	investigator	Investigator	Approve Delete

Figure 9-2 Admin User List Pre-Approval

Show 10 entries						
Name	Email	Organization	Confirmed?	Requested Role	Role	Actions
[Redacted]	[Redacted]	[Redacted]	false	investigator	Investigator	Revoke Access Delete

Figure 9-3 Admin User List Post-Approval

9.2 Data Submission

When a user successfully submits data, the administrator receives an email displayed in Figure 9-4.

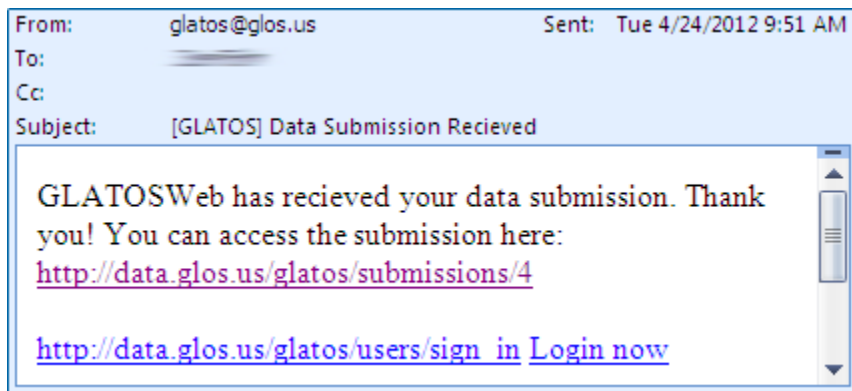


Figure 9-4 Data Submission Admin Notification

Figure 9-5 displays the page that is shown after clicking on the first link. Clicking **Analyze Submission** will bring you to the analyze page.

Note: The **Analyze Submission** link is only displayed and available to administrators.

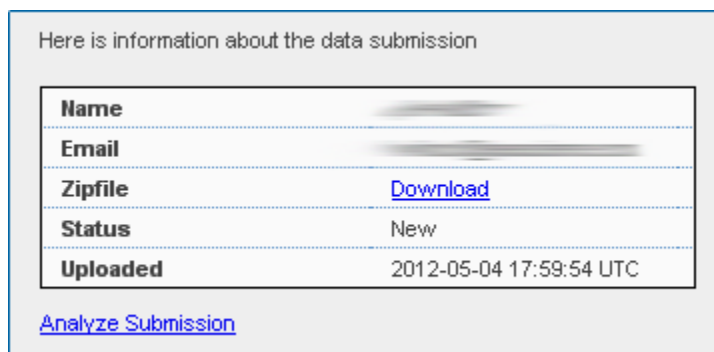
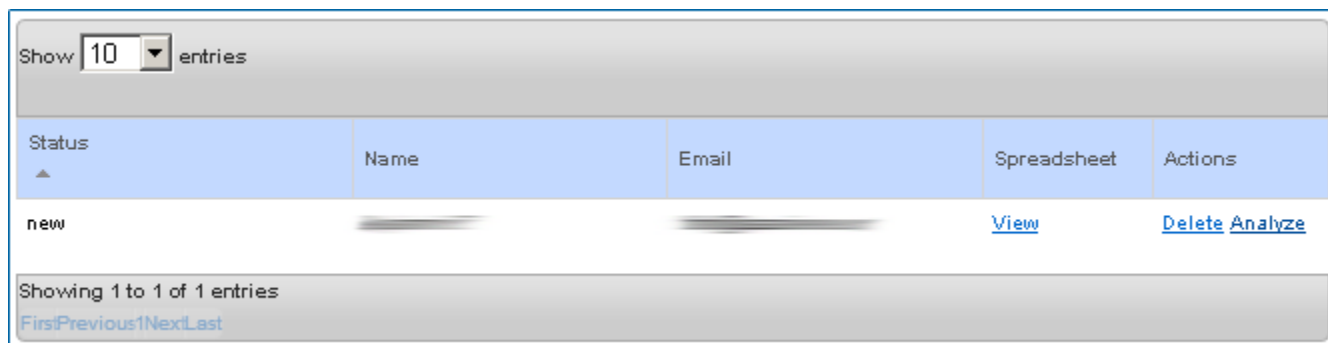


Figure 9-5 Viewing a Submission

The administrator can then visit <http://data.glos.us/glatos/submissions> to view, delete, or analyze the submissions, as displayed in Figure 9-5. Clicking the **View** link will initiate a download of the XLSM file. **Analyze** will redirect the browser to the analyze page.

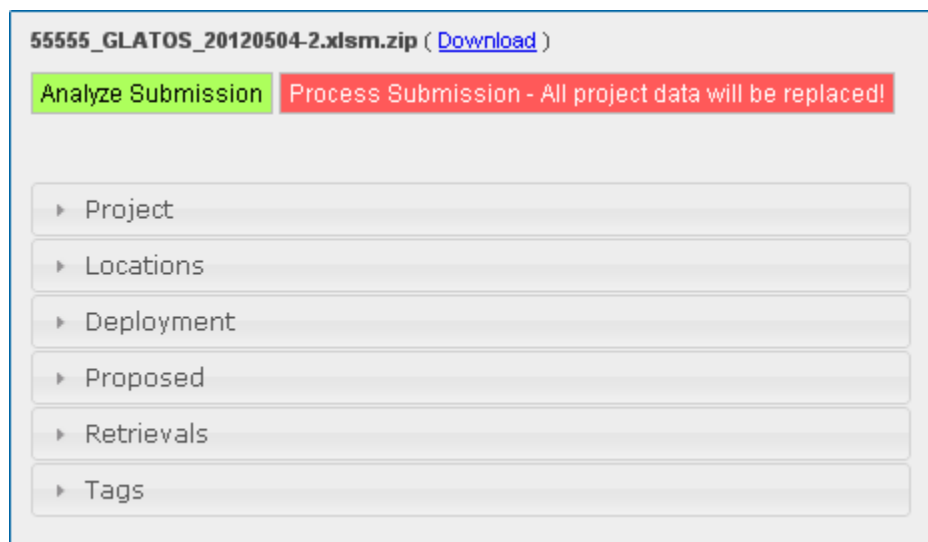


Status	Name	Email	Spreadsheet	Actions
new			View	Delete Analyze

Showing 1 to 1 of 1 entries
[First](#)[Previous](#)[Next](#)[Last](#)

Figure 9-6 Submissions List

Figure 9-7 displays the analyze page. Here, the administrator can click the **Analyze Submission** button to make sure the submitted project contains no errors. If the project contains no errors, the administrator is then able to click the **Process Submission** button.



55555_GLATOS_20120504-2.xlsm.zip ([Download](#))

[Analyze Submission](#) [Process Submission - All project data will be replaced!](#)

- ▶ Project
- ▶ Locations
- ▶ Deployment
- ▶ Proposed
- ▶ Retrievals
- ▶ Tags

Figure 9-7 Analyze Page

55555_GLATOS_20120504-2.xlsm.zip ([Download](#))

Analyze Submission **Process Submission - All project data will be replaced!**

Errors found in project data. Please update project information in the Zipfile and try again. Details below.

Errors 1

Error loading project: invalid date

Project	
Code	55555
Short Title	[Enter a short (45-character max.) title here]
Title	[Enter full project title here]
Description	"[200 word max; suggest 1-2 paragraphs in non-technical language. Include background or justification
Start	
End	2012-12-12T05:00:00Z
External URL	
Benefit 0:	"[List expected management benefits here. This is REQUIRED for GLFC and GLRI-funded projects. Use the special string ""
Benefit 1:	"" to separate objectives if you'd like them presented in list format. If none
Funding Source 0:	"[List funding sources here. Separate funding sources with the special string ""
Funding Source 1:	"" to present in list format.]"
Investigator 0:	"[List other investigators here (organizations in parentheses). Separate investigators with the special string ""
Investigator 1:	"" to have them presented in list format on the project page.]"
Objective 0:	"[List project objectives here
Organization 0:	"[List supporting and cooperating organizations here. Separate organizations with the special string ""
Organization 1:	"" to present in list format.]"

PI	
Name	[First and Last Name of Principal Investigator]
Email	examplepi@piorganization.com
Organization	[Principal Investigator Affiliation]
Role	investigator

Figure 9-8 Analyze Error

Figure 9-8 displays what occurs when there is an error in the project. Notice how the **Process Submission** button is still red and disabled.

GLATOS_Submission_SMRSL_20120301.zip ([Download](#))

Analyze Submission **Process Submission - All project data will be replaced!**

Please double check the Project and PI information below before submitting.

Errors 0

Project	
Code	55555
Short Title	[Enter a short (45-character max.) title here]
Title	[Enter full project title here]
Description	[200 word max; suggest 1-2 paragraphs in non-technical language. Include background or justification]
Start	2012-01-14T05:00:00Z
End	2012-12-12T05:00:00Z
External URL	
Benefit 0:	"[List expected management benefits here. This is REQUIRED for GLFC and GLRI-funded projects. Use the special string ""
Benefit 1:	"" to separate objectives if you'd like them presented in list format. If none
Funding Source 0:	"[List funding sources here. Separate funding sources with the special string ""
Funding Source 1:	"" to present in list format.]"
Investigator 0:	"[List other investigators here (organizations in parentheses). Separate investigators with the special string ""
Investigator 1:	"" to have them presented in list format on the project page.]"
Objective 0:	"[List project objectives here
Organization 0:	"[List supporting and cooperating organizations here. Separate organizations with the special string ""
Organization 1:	"" to present in list format.]"

PI	
Name	[First and Last Name of Principal Investigator]
Email	examplepi@piorganization.com
Organization	[Principal Investigator Affiliation]
Role	investigator

Figure 9-9 Analyze Success

Figure 9-9 displays a project that contained no errors and therefore the analyzation was successful. The **Process Submission** is now green and enabled for use.

GLATOS_Submission_SMRSL_20120301.zip ([Download](#))

Analyze Submission Process Submission - All project data will be replaced!

Submission Complete. Please check for information about individual data sheets below.

Retrievals

Records in File	203
Records Saved	195
Errors	8

Error loading Retrieval - No OtnArray with the code PWC - Data: 72,PWC,,001,1,,,,,109461,,2010-06-03T07:20:00,2010-06-03 11:20,EASTERN,,,SMRSL,N
Error loading Retrieval - No OtnArray with the code PWC - Data: 73,PWC,,001,2,,,,,109461,,2010-08-02T09:05:00,2010-08-02 13:05,EASTERN,,,SMRSL,N
Error loading Retrieval - No OtnArray with the code PWC - Data: 74,PWC,,002,1,,,,,109418,,2010-06-03T07:48:00,2010-06-03 11:48,EASTERN,,,SMRSL,N
Error loading Retrieval - No OtnArray with the code PWC - Data: 75,PWC,,002,2,,,,,109418,,2010-08-02T08:49:00,2010-08-02 12:49,EASTERN,,,SMRSL,N
Error loading Retrieval - No OtnArray with the code PWC - Data: 169,PWC,,001,1,,,,,109876,,2011-08-04T07:36:00,2011-08-04 11:36,EASTERN,,,SMRSL,N
Error loading Retrieval - No OtnArray with the code PWC - Data: 170,PWC,,002,1,,,,,109951,,2011-08-04T07:42:00,2011-08-04 11:42,EASTERN,,,SMRSL,N
Error loading Retrieval - No OtnArray with the code - Data: ,,,,,,,,,,,,,,
Error loading Retrieval - No OtnArray with the code - Data: ,,,,,,,,,,,,,,

Figure 9-10 Analyze Post-Processing

Figure 9-10 displays what is shown after clicking the **Process Submission** button.