Section 5: Technology Systems
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This Country Coordinator Implementation Guide has been developed as a resource guide to assist GLOBE Country Coordinators in the operations and implementation of The GLOBE Program in their countries. Section 5: Technology Systems contains:

**WEBSITE ACCESS**

1. Website Tutorials on Special Management Tools for Country Coordinators
2. Web Tutorials on Using the GLOBE Website
3. Country Coordinator Quick Guide to GLOBE Website

**DATA ENTRY, VISUALIZATION AND RETRIEVAL**

1. GLOBE Data Entry
2. Email Data Entry Instructions
3. Data Entry Mobile App
4. The GLOBE Program’s app, GLOBE Observer
5. Data Visualization
6. Data Retrieval (ADAT, API)

**WEBSITE ACCESS**

1. **Website Tutorials on Special Management Tools for Country Coordinators**
   
   Resources have been developed to support Country Coordinators’ use of the GLOBE Website in their implementation of GLOBE. These Website tutorials focus on the special management tools available to Country Coordinators for training and supporting their teachers as well as tracking, understanding and reporting overall GLOBE involvement and use.

   Tutorials cover the following topics:
   1. Managing Schools and Users
   2. Managing Partner and Country Pages
   3. Managing Workshops
   4. Reports and Metrics
   5. Workshop Help

2. **Web Tutorials on Using the GLOBE Website**

   The GLOBE Website is made up of several specialized areas that enable you to engage, collaborate and educate as well as enter and interact with scientific data. The following
Web Tutorials were developed to help you understand and work with the various parts of the GLOBE Website:

1. **Setting up Your Data Site**
2. **Entering Measurement Data**
3. **Retrieve and Visualize Your Data**
4. **Setting up Your GLOBE Account**
5. **Creating Student Accounts**

### 3. Country Coordinator Quick Guide to GLOBE Website

Below is a quick guide to how to do different tasks on the GLOBE Website. This guide can also be downloaded from the Website [here](#). The first step is to Login to [www.globe.gov](http://www.globe.gov) with your email address and password.

#### Quick Guide to the GLOBE System

Every *trained member* of GLOBE can:

<table>
<thead>
<tr>
<th>Task</th>
<th>Instruction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enter Data into the Live Site</td>
<td>Login to GLOBE and click the “Enter Data” button on the home page.</td>
</tr>
<tr>
<td>Practice entering data into the Training Site</td>
<td>Login to GLOBE, move the mouse on “GLOBE Data” tab on the home page, then “Data Entry,” then choose “Training Data Entry” from the menu.</td>
</tr>
<tr>
<td>Visualize Data</td>
<td>Click on the link “Visualize Data” on the Home Page.</td>
</tr>
<tr>
<td>Change their information (email, password, address etc.)</td>
<td>Click on your name on the top right and “Account Settings” to access and edit your account information</td>
</tr>
<tr>
<td>Upload a picture of themselves</td>
<td>Go to your “MyPage” (Click the circle with a person figure inside then select “My Page”), and select “Change” on the picture on the left. Or...Click on the circle with a figure inside on the top right then select “Account Settings” to access your account information. The first link “Information” on the left will allow you to upload a picture.</td>
</tr>
<tr>
<td>Request someone to be their Friend</td>
<td>Search for the person you want to be a friend. Click on their name to go to their “MyPage.” Click the “Collaboration” tab and then the link under their picture which says “request to be a friend.” You will be notified via email when they accept.</td>
</tr>
<tr>
<td>Post to a Forum</td>
<td>Go to the forum you are interested in and click “Post a new Thread” or click “Reply” to an existing thread. You can also “subscribe” to the forum to receive email anytime someone posts to the forum.</td>
</tr>
<tr>
<td>Change the content on their “MyPage”</td>
<td>Go to your “MyPage” (Click the circle with a person figure inside then select “My Page”). Look for and click the 3 vertical dots in the middle column of the page. You will see a form/text editor into which you can input information.</td>
</tr>
<tr>
<td>Input the number of students they directly support (for GLOBE metrics)</td>
<td>Go to your “MyPage” (Click the circle with a person figure inside then select “My Page”). Scroll down the page, and in the middle of the page, click the “Edit” link next to “Number of students using GLOBE this year”.</td>
</tr>
<tr>
<td>Change GLOBE Info</td>
<td>To access the member GLOBE Info, click on the User picture from the GLOBE Homepage, then select “Account Settings.” In the “Account Settings” page, select “GLOBE Info” link from the left side panel.</td>
</tr>
<tr>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>Through “GLOBE Info,” users can select what information to display on their “MyPage” and the “Collaboration” page such as the languages they speak, their activities on the GLOBE Website, and their preference to collaborate with other GLOBE Community members.</td>
<td></td>
</tr>
<tr>
<td>Collaborate</td>
<td></td>
</tr>
<tr>
<td>I’m interested in collaborating with</td>
<td></td>
</tr>
<tr>
<td>• Display Activities</td>
<td></td>
</tr>
<tr>
<td>• Blogs</td>
<td></td>
</tr>
<tr>
<td>• Calendar Event</td>
<td></td>
</tr>
<tr>
<td>• Document Library</td>
<td></td>
</tr>
<tr>
<td>• Friends</td>
<td></td>
</tr>
<tr>
<td>• Image Gallery</td>
<td></td>
</tr>
<tr>
<td>• Journal</td>
<td></td>
</tr>
<tr>
<td>• Message Boards</td>
<td></td>
</tr>
<tr>
<td>• Wall Post</td>
<td></td>
</tr>
<tr>
<td>Languages</td>
<td></td>
</tr>
</tbody>
</table>

| Find Someone to Collaborate With | Select Community ->“Find a Project Collaborator” from the top Menu. Use the form to find someone who is in a particular country and using the same protocols as you. Select “Add as Friend,” and they will receive an email from you. |

Every **teacher** can also:

<table>
<thead>
<tr>
<th>Create Student Accounts</th>
<th>Go to your “MyPage” (Click the circle with a person figure inside then select “My Page”), then look for the “Student Accounts” section in the middle of your “MyPage.” Select “Add Account” and fill out the form.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monitor what their Student Accounts are doing</td>
<td>Go to your “MyPage” (Click the circle with a person figure inside then select “My Page”). Select the “Collaboration” tab. In the middle of the page under your “Friend” map is “Friends Activities.” Anything your student does will be listed here.</td>
</tr>
<tr>
<td>Submit student reports</td>
<td>Use the “Do GLOBE” drop down menu and select “Student Research Report.” On the Student Research report page, click the “Upload your research report” button on the right of the page. Fill out the form to submit your student research report.</td>
</tr>
<tr>
<td>Add pictures to their school’s image gallery</td>
<td>Use the “Go to” drop down on the top left of the page and select your school under “My Organization” (if you cannot see “Go to menu” on the left side of the home page, click the menu button to view the menu). Click on the “Images” tab. Add pictures for your school.</td>
</tr>
</tbody>
</table>
Every teacher who has “School Manager” checked as a GLOBE role can also:

<table>
<thead>
<tr>
<th>Task</th>
<th>Instructions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Edit the school information (address, phone, location)</td>
<td>Go to “Manage” on the top left, select “Users and Organizations.” Then click on the “Organizations” tab and then select your school from the list. There are various categories you can select to add or change your school information.</td>
</tr>
<tr>
<td>Edit the school’s “About us” content on the school page</td>
<td>Use the “Go to” drop down on the top left of the page and select your school under “My Organization” (if you cannot see “Go to menu” on the left side of the home page, click the menu button to view the menu). Click the 3 vertical dots icon to see a form, which will allow you to add text and pictures for your school.</td>
</tr>
<tr>
<td>Change another teacher’s information at their school</td>
<td>You can help a colleague to change or update their information. On the left side Menu, select Manage-&gt;Users and Organizations. By default, it goes to Users tab where it will show all the users under your school and you can find your colleague’s name. You can then edit their information or help them change their information if needed.</td>
</tr>
<tr>
<td>Add a picture for their school on their school’s page</td>
<td>On the left side Menu, click “Manage” and select “Users and Organizations” then click “Organizations” tab. Find your organization from the list and click the school name to edit its information. The picture for your school is uploaded on the first option selection.</td>
</tr>
</tbody>
</table>

Every Country Coordinator (with the GLOBE organization manager role checked) can also:

<table>
<thead>
<tr>
<th>Task</th>
<th>Instructions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Create, Edit or Delete User accounts for the people at schools which are connected to them.</td>
<td>Go to Manage-&gt;Users and Organizations. You can browse or select All Users. You can click on Action-&gt;Edit to edit it, or select “Add” to add a new user. (Note – it’s always easier to add a user’s organization before adding them)</td>
</tr>
<tr>
<td>Create, Edit or Delete Schools which are connected to them.</td>
<td>Go to Manage-&gt;Users and Organizations then click “Organizations” tab. You can browse or select “All Organizations.” Check the box next to the school name to show the possible actions you can do, or click the + button to add a new school. (Note: you cannot delete schools that contain Data Site and/or Teachers.)</td>
</tr>
<tr>
<td>Change a user’s training records</td>
<td>Go to Manage-&gt;Users and Organizations. You can browse or select “All Users.” Click the user name to open their account settings and then select “GLOBE Training” link. Check “Workshop Override” box to change the records listed. (Only use sparingly and only add a user to a workshop that you are sure they attended)</td>
</tr>
<tr>
<td>Give a teacher the “School Manager” Role</td>
<td>Go to Manage-&gt;Users and Organizations. You can browse or select “All Users.” Click user name to open their account settings and then select “GLOBE User Groups.” On the bottom, select “School Manager” check box, then hit save.</td>
</tr>
<tr>
<td>Create Workshops</td>
<td>Go to Manage-&gt; Workshop Administration The “Workshop Management Tool” should open (if the Tool doesn’t automatically open, click the “Launch Admin Workshop” link to open it manually) from the “Workshop Management Tool” main menu. Select “Create New Workshop,” fill out the form and submit to post the new workshop.</td>
</tr>
<tr>
<td>Search for Trainers</td>
<td>Go to Manage-&gt; Workshop Administration, Search/Manage existing workshop. Look for the workshop for which you need to find trainers, then select the “Add Trainer / View Trainer’s list.”</td>
</tr>
<tr>
<td>Send an email to people they have trained</td>
<td>Go to Manage-&gt; Workshop Administration and use “GLOBE Members Trained via Workshops under your Organization(s)” to send an email.</td>
</tr>
</tbody>
</table>
**Partner Dashboard**

The Partner Dashboard is an important portal for Country Coordinators to help them view all the tasks that need their attention in one place.

To access the Partner Dashboard, go to “Manage” in the control panel, then click Partner Dashboard. **Partner Dashboard link:** [https://www.globe.gov/group/guest/~/control_panel/manage?p_p_id=partnerdashboard_WAR_globegovpartnerdashboardportlet](https://www.globe.gov/group/guest/~/control_panel/manage?p_p_id=partnerdashboard_WAR_globegovpartnerdashboardportlet)

The Partner Dashboard enables Country Coordinators to perform the following tasks.

- Member status summary
- View new accounts and approve them
- View Newly approved account and contact them info about workshops and training opportunities.
- View Newly trained users in the Country.
- View Trained users in the Country.
- View Citizen Scientists in the Country.
- View Trained Citizen Scientists in the country.
- View Trainers in the Country
- View Mentor Trainers in the Country.
- Workshop Tasks Reminders:
- View workshop action needed

**Trainer Dashboard**

The Trainer Dashboard is another tool to help Country Coordinators, Regional Office Coordinators and the GLOBE Education Working Group to view and process Trainer and Mentor Trainer applications.

To access the Trainer Dashboard, go to “Manage” in the control panel, then click Trainer Dashboard. **Trainer/ Mentor Trainer link:** [https://www.globe.gov/group/guest/~/control_panel/manage?p_p_id=gov_globe_trainerdashboard_TrainerDashboardPortlet](https://www.globe.gov/group/guest/~/control_panel/manage?p_p_id=gov_globe_trainerdashboard_TrainerDashboardPortlet)

The Trainer Dashboard enables Country Coordinators to perform the following tasks.

- View a Trainer or Mentor Trainer application status.
- View the account of the applicant.
- View the organization that the applicant belongs to.
- View the supporting documents submitted by the applicants.
- Approve or reject a Trainer or Mentor Trainer Application.
- Approved applications move to the Education Working group to review and assign a Mentor Trainer.
- Rejected applications, stop the process and inform the applications the reason of denial.

**Updating Country Page**

Country Coordinators can update the country page and its child pages.

Some of these updates include:

- Adding content to the Country Main page.
- Updating the About & Contact info page.
- Adding News to the News page
- Adding Events to the Events page

**Updating the Contents of the Resources page.**

Updating the Country pages is different from one page to the other.

To update the contents of the country page or any other page (Resources), simply move the mouse until the Web Content Display bar shows up. Click on the 3 dots at the right side of the bar and select Edit Web Content. The text editor will show up where you can add text, media and links and format it.

To update the About and Contact info page. Click on Add Contact, then select the (Yes (Use member’s profile)) Then select the GLOBE Member you would like to add to the page and select the contact information you would like to view. Please note, only members with GLOBE accounts will show up in the list. If the member is not already in the system, you will need to create their account first before adding them to the Country Page.

To add news and events to the News or the Events page, go the country page, click on the Window shape on top of the page to view the Control panel on the left side of the page. Click the Arrow to the left of the Country name to expand, Click the Arrow to the left of the Contents and Data to expand. Click Web Content. In the Web Content Page, click the Filter and Order to select News or Events to add.
1. Account settings
2. My Page

- View Friends and their activities on the Website
- Create new and edit existing blogs
- View your activities on the GLOBE Website

Move the mouse to the top of the text to view the edit options

Click the + sign to add new Web content/Paragraph

Click the 3 dots to view edit text/add contents

Change/Delete profile photo

Click to create new or edit existing student accounts

Click for info about Student Accounts and how to use it

Eslam Khair is an IT Support Specialist at the Geophysical Fluid Dynamics Laboratory (GFDL) in Boulder, Colorado. Joining the GIO team in 2004, he is currently helping the GLOBE Community with GLOBE website-related issues, translation projects, and website training. Before GLOBE, Eslam earned his MBA in IT Management at the University of Colorado Technical University, Denver, Colorado. He also brings a wealth of knowledge from his previous role as the Sony account Team Lead at IBM in Boulder, Colorado.

To get in touch with Eslam, you can email GLOBEhelp@ucar.edu.
3. Control Panel

1. Make sure you're signed on

2. Click to open the Control Panel

3. Click to expand the Manage list

4. Click to add or edit accounts and/or School organizations

5. Click for a quick access to approve accounts, account lists, and view pending workshop tasks

6. Click to view and process Trainer and Mentor Trainer applications

7. Click to create and manage GLOBE training workshops

8. Click to view which schools reporting data and last date they reported data
4. Workshop Administration Tool

Create a New Workshop
Create new workshop in your organization and send out workshop email notifications to your team members and others involved in the workshop.

Search / Manage Existing Workshops
Search for existing workshops to manage rosters and workshop trainers. Conduct post workshop activities such as sending out emails to participants and printing out GLOBE certificates.

GLOBE Members Trained via Workshops under your Organization(s)
Search for members that have been trained at workshops created by you or someone in your organization. View training records and send emails to past workshops registrants.

Schools with People Trained
Identify schools with the most workshop registrants. Filter by your workshops or all workshop creators in your organization.

Workshop Management Tutorials and FAQ
Step by step tutorials for how to create and manage workshops and answers for most common questions about workshops.

(Cannot find answers for your questions or having technical issues managing a workshop? Send an email to globehelp@ucar.edu or call the GLOBE Community Support Team hotline at +1-800-858-9947.)
5. Users and Organization for Managing accounts and schools

- Click to manage Accounts
- Click to manage schools
- Search for the GLOBE Account or School to edit if they already exist in the system. (Always search here before creating new accounts/schools)
- Click the + sign to add new GLOBE Account or School (Depending on which page you are in)
- Click to add new school
- Click the 3 dots to view Account/School managing options (Depending on which page you are in)
6. Partner Dashboard

1. Click here to open the control panel.
2. Click the arrow to expand the manage list.
3. Click Partner Dashboard.
4. Make sure to select the correct organization.
5. Quick access to School Status report and Workshop Management Tool.

Click Partner Dashboard

Partner Dashboard

<table>
<thead>
<tr>
<th>Member Status Summary</th>
<th>Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Account Requested</td>
<td>779</td>
<td>Teachers who have requested to join GLOBE and are waiting for approval</td>
</tr>
<tr>
<td>Account Approved</td>
<td>13794</td>
<td>Teachers whose accounts have been approved but have not started the training process</td>
</tr>
<tr>
<td>Pre-Candidate</td>
<td>754</td>
<td>New teachers who are registered for an upcoming workshop</td>
</tr>
<tr>
<td>Candidate</td>
<td>1062</td>
<td>New teachers who are registered for an in-progress workshop</td>
</tr>
<tr>
<td>Newly Workshop Trained</td>
<td>175</td>
<td>Teachers who have completed training at a workshop in the last 30 days (additional data filter options available)</td>
</tr>
<tr>
<td>Newly eTrained</td>
<td>39</td>
<td>Teachers who have been eTrained in the last 30 days (additional data filter options available)</td>
</tr>
<tr>
<td>GLOBE Members</td>
<td>47787</td>
<td>Fully trained GLOBE Teachers</td>
</tr>
<tr>
<td>Untrained GLOBE Observers</td>
<td>225866</td>
<td>GLOBE Observers in your organization who are untrained (i.e., have not completed eTraining)</td>
</tr>
<tr>
<td>Trained GLOBE Observers</td>
<td>5</td>
<td>GLOBE Observers in your organization who have been trained in the last 30 days through the eTraining system</td>
</tr>
<tr>
<td>Pre-Candidate Trainers</td>
<td>18</td>
<td>Users in this group are those who have filled out the Trainer application form, but no action has been taken yet</td>
</tr>
<tr>
<td>Pre-Candidate Trainers</td>
<td>11</td>
<td>Users in this group are those who have filled out the Trainer application form</td>
</tr>
</tbody>
</table>
7. Trainer Dashboard

- Marina Cicic
  - Aquatika
  - City of Naples Administration
  - Croatia Trainers
  - Application
  - 2021-07-31
  - Approve
  - Reject

- Lubis Andrew Aphibonrome
  - Ministry of Education (GLIC6TC)
  - Application
  - 2021-08-27
  - Approve
  - Reject

- Paulo Vieira Caetano Fernandes
  - Brazil GLOBE u-School
  - Application
  - 2021-08-27
  - Approve
  - Reject

- Janine Guadapino
  - Tabernacle Christian Academy
  - Application
  - 2021-08-28
  - Approve
  - Reject

- Khang Nguyen Le
  - Inmediu Steam
  - Application
  - Supporting #1
  - 2021-08-28
  - Approve
  - Reject

Click to view applicant account
Click to view applicant school organization
Click to view Trainer/Mentor Trainer application and Supporting documents
Click to approve or reject
DATA ENTRY, VISUALIZATION AND RETRIEVAL

1. **GLOBE Data Entry**
   Several options are offered for GLOBE data entry and are located [here](#). Live data entry, training data entry and email data entry are described in the Navigating the new Data Entry Tools web tutorial.

2. **Email Data Entry Instructions**
   GLOBE Email Data Entry requires that one must:
   - Use their Organization ID
   - Use a Site ID associated with their organization
   - Use the email address associated with their GLOBE account
   
   Learn more about where to find both ID’s by visiting the following pages:
   - [Organization ID](#)
   - [Site ID](#)

   *To emphasize, in order to accept data, you must use the email address associated with your GLOBE user account. This ensures that your data is accepted into the database and that you will be able to receive notifications related to your data submission.*

   Detailed instructions for submitting GLOBE data via email are located [here](#).

3. **Data Entry Mobile Application**
   GLOBE’S Data Entry Mobile Application (app) for mobile devices is available on both iOS and Android platforms.

   GLOBE’s Data Entry App allows you to enter GLOBE protocol data directly from your iOS or Android device for any of GLOBE’s protocols. After an initial download of forms, you can record your measurements in the field, and then choose to send your data to GLOBE when you have an internet connection. The app streamlines some aspects of data entry, and allows you to use your phone’s camera to document your sites and measurements. This app is intended only for users who have an existing GLOBE Trained account.

   Please note that even though the GLOBE Data Entry app is available for GLOBE Trained Users, it is currently being merged with The GLOBE Program’s app, GLOBE Observer and will retire eventually once all the protocols are included in The GLOBE Program’s app, GLOBE Observer (described below).

   **Download the app for android now** from [Google Play](#)

   **Download the app for iOS now** from the [App Store](#)
4. The GLOBE Program’s app, GLOBE Observer

What is The GLOBE Program’s app, GLOBE Observer?

- A citizen science app allowing volunteers in GLOBE countries to take observations and contribute to the Global Learning and Observations to Benefit the Environment (GLOBE) community
- A way to collect data to track changes in the environment in support of Earth system science research, and interpret NASA and other satellite data
- An open data set available to scientists, and supporting students of all ages in doing real scientific research through the GLOBE Program
- This app is intended for GLOBE Citizen Scientist untrained users but could also be used by GLOBE Trained users. The new version allows Trained users to enter additional data sets.

Download the app and follow the instructions to get started. Always follow guidelines from your local officials and only participate in GLOBE activities or use The GLOBE Program’s app, GLOBE Observer if it is safe to do so.

5. Data Visualization

With the GLOBE Visualization System, you are able to view, graph, and export GLOBE data from around the world. You can use various filters to find both contemporary measurements as well as historical data ranging all the way back to 1995. Currently, the system supports a subset of GLOBE protocols, but GLOBE is continually adding new features, so be sure to check the GLOBE Website for the latest updates.

6. Data Retrieval

Instructions for using GLOBE tools for analyzing data can be found here.

ADAT

Find and use the data you are interested in with GLOBE’s Advanced Data Access Tool (ADAT). You can refine your search using various parameters and then choose specific sites that contain the measurements you are looking for. Specific search parameters include:

- Protocol
- Date Range
- Date Count Range
- Site Name
- Country/State/Territory
- Proximity to Lakes or Rivers
- School/Teacher/Partner
- Elevation Range
- Latitude/Longitude Range
- Proximity to Latitude/Longitude

Once you have chosen the site you want to investigate, more filters can be applied to narrow the data search or download the data into a CSV file for a detailed analysis with your software of choice. The ADAT also includes the option to download a summary file that compiles the amount of available data for each site of interest. This feature can be used to determine which sites may be more data-rich and worth further investigation.
API

Quickly access GLOBE data and filter it by various parameters with GLOBE ‘API calls.’ Each ‘API call’ is associated with a unique URL and variable combination that allows measurements to be found with speed and ease. The GLOBE API is focused on supporting developers who want to use a programmatic interface to retrieve GLOBE data.