

# New and Upcoming Web and App Enhancements

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## Thanks to...

### Technology Working Group

- Laura Altin
- Joan Callope
- Ana Prieto
- Kristen Weaver
- Sara Mierzwiak
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- Sheena Masood
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- Ghadeer Khudadah

### NASA Task Manager

- Lisa Dallas



And YOU for all you do for GLOBE!!



# GLOBE Observer Enhancements

– Joe Wieclawek



## Added All Pedosphere Protocols to GLOBE Observer!

- All pedosphere protocols and site setup have been added to GLOBE Observer and the new desktop data entry forms  
(<https://dataentry.globe.gov>)
- We will be changing the default data entry to the new system in the weeks ahead

All protocols have been added to GLOBE Observer!

### Select Protocols

▶ Atmosphere	0
▶ Biosphere	0
▶ Hydrosphere	0
▼ Pedosphere	0
Soil Characterization	
<input type="checkbox"/> Soil Bulk Density	
<input type="checkbox"/> Soil Infiltration	
<input type="checkbox"/> Soil Particle Size Distribution	
<input type="checkbox"/> Soil Fertility	
<input type="checkbox"/> Soil Particle Density	
<input type="checkbox"/> Soil pH	
Soil Moisture and Temperature	
<input type="checkbox"/> Soil Moisture - Gravimetric	
<input type="checkbox"/> Soil Moisture - SMAP	
<input type="checkbox"/> Soil Temperature	
Frost Tube	
<input type="checkbox"/> Frost Tube	
▶ Earth as a System Bundles	
▶ My Protocol Bundles	






## Added Genus/Species/Common Name to GLOBE Trees

- Users of GLOBE Trees can now enter the genus/species and/or Common Name for trees whose height they are measuring.

4:35

< Circumference and Genus / Species Options

Would you like to enter your tree's circumference and/or enter its genus and species?



Optional:  
Enter Circumference

Optional:  
Enter Genus and Species


Finish

Home Bar: Home, List, Search, Home, Add, Help

4:35

< Genus and Species

Also enter the tree's common name.



Latin Name ⓘ

Genus 🔍

Species 🔍

Source of genus/species ▼

Common Name:

Home Bar: Home, List, Search, Home, Add, Help



## GLOBE Observer – Enhancements in progress

- Feature Photos for Clouds
  - Similar to landcover – take a photo of an interesting atmospheric feature
- Test/Practice User
  - Try a protocol in practice mode
- Land Cover Flyover Notifications
  - Be notified if your landcover photo has a satellite match



## GLOBE Observer – Features in discussion

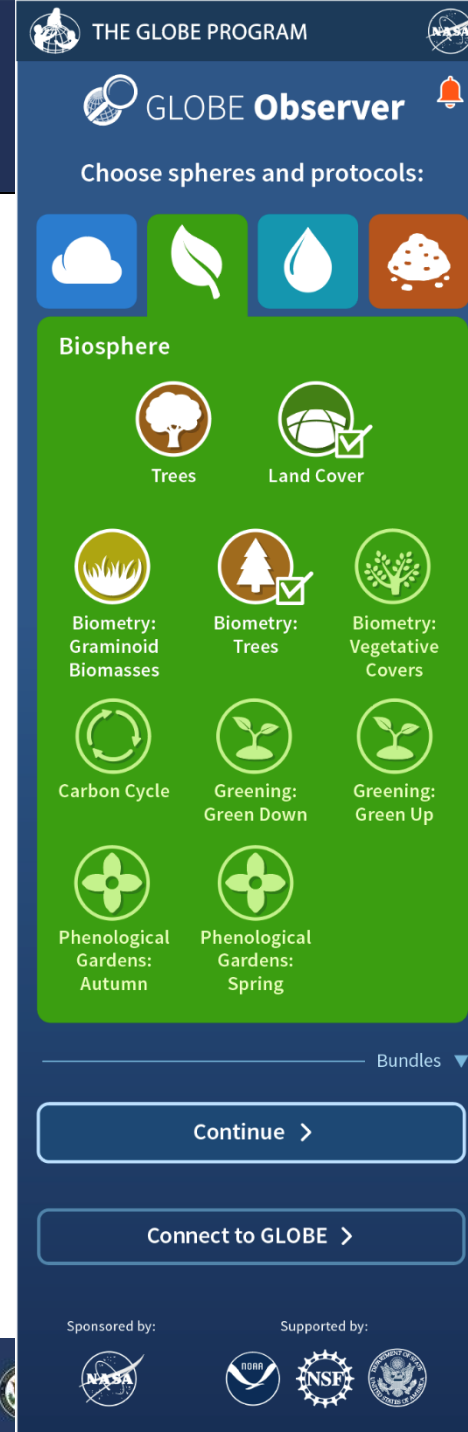
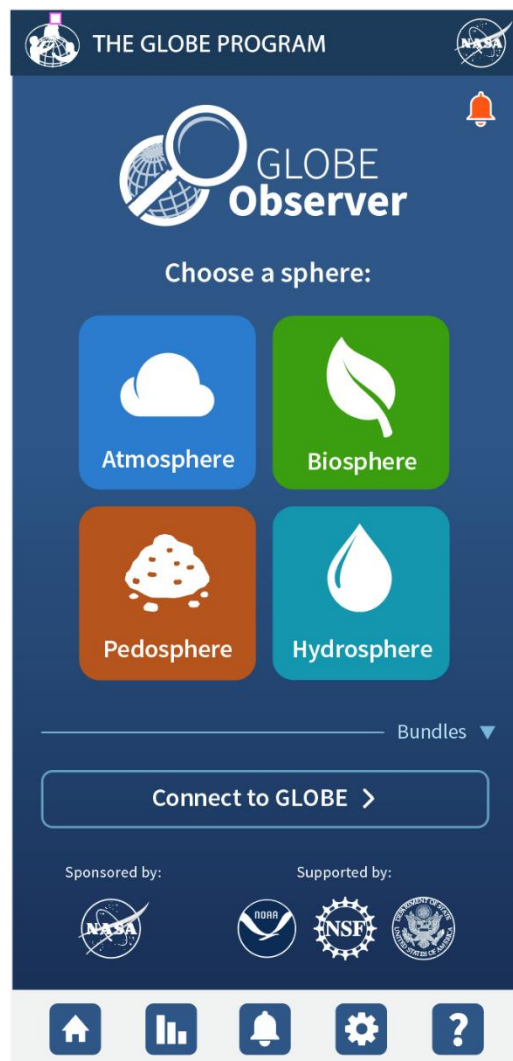
- Connect your observations to NASA's NISAR mission
  - Your landcover observations may have additional metadata requested to align with ground truthing for NASA's NISAR mission. Discussions underway.
- Connect your observations to emergency and storm warning systems (US)
  - Discussing ways to connect your clouds and land cover observations with emergency response agencies
- Archive sites no longer being used (but keep the data!)



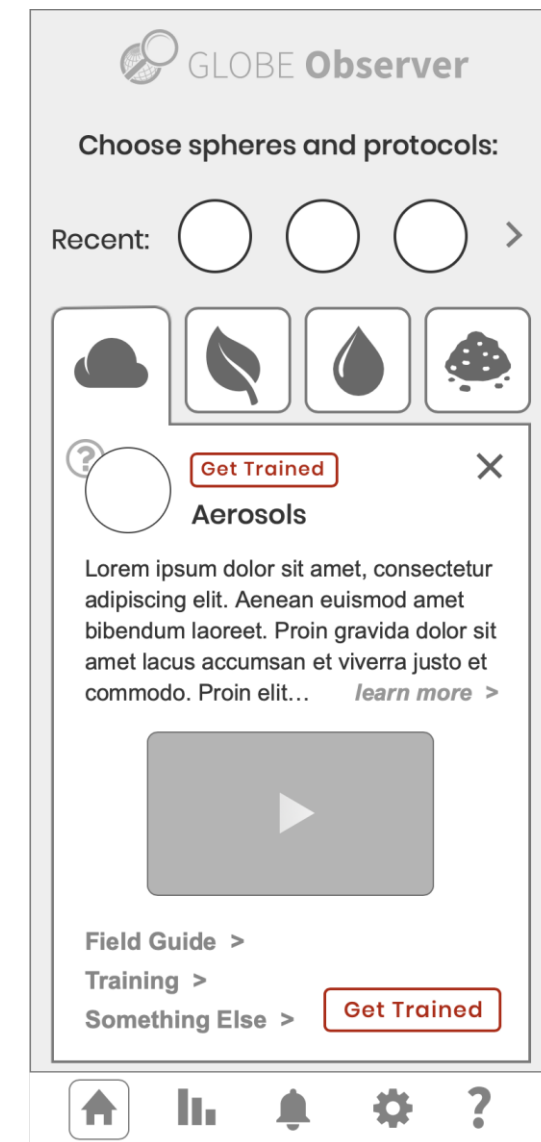
# The GLOBE Program

## GLOBE Observer – Features in discussion

- Modify GLOBE Observer to more closely integrate all the protocols and training



GLOBE Meeting2025





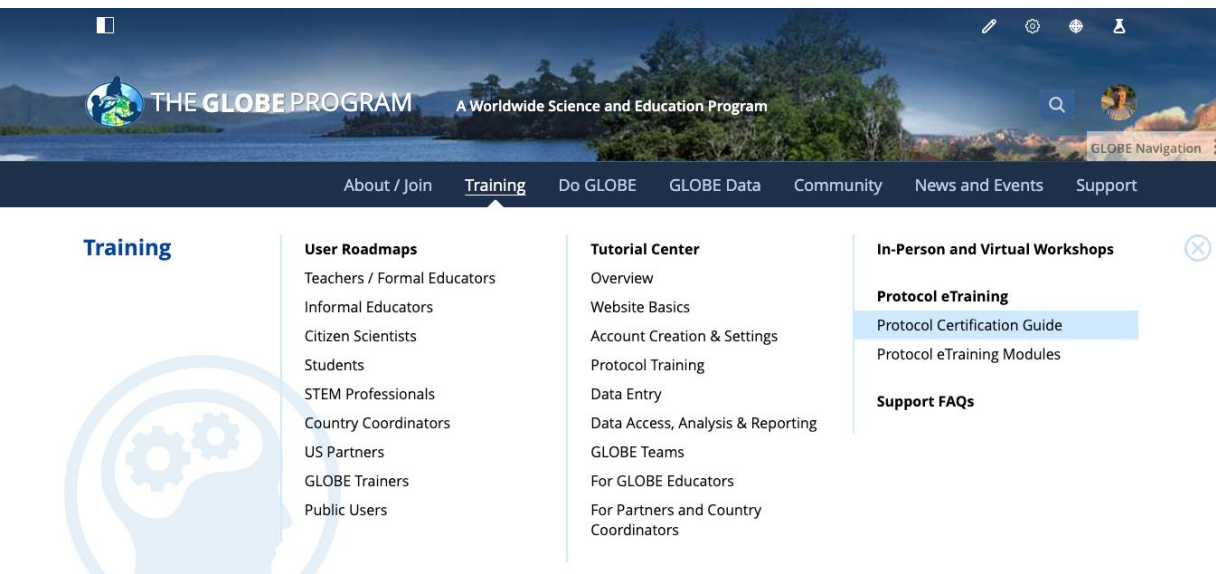
## GLOBE Website

– Cornell Lewis



## Improved eTraining Protocol Certification Process

- Addresses the issue of users not being sure which eTraining modules are needed to become Protocol Certified/GLOBE Educator.
- New system steps the user through the required modules.



### Protocol Certification Guide

GLOBE Members can enter measurements for all GLOBE protocols by completing the required eTraining modules to become protocol certified.

#### User Requirements:

You must have a verified GLOBE account to take the assessment tests.

Those with an Educator account must also be approved by their Country Coordinator / U.S. GLOBE Partner or the GLOBE support team before being able to complete their e-training. Please contact the [GLOBE Implementation Office](#) if you have any questions about the approval process.

GLOBE Observers residing outside the U.S. and Student Accounts are not able to take assessment tests currently.



#### Certification Steps

A green check mark next to a step or module indicates you have completed the required module(s). You must complete at least one assessment test in each test area to receive the green check mark. Login with a verified GLOBE account to take the eTraining assessments and track your progress.

- 1 Introduction to GLOBE
- 2 Introduction to an Earth Science Sphere
- 3 GLOBE Protocol under the Selected Earth Science Sphere






## Improved eTraining Protocol Certification Process

Step 1: Complete Introduction to GLOBE eTraining Module. →

1 Introduction to GLOBE



**Introduction to GLOBE**

In this module you will be introduced to the GLOBE Program and the investigation areas that can be studied across the Earth Spheres in developing your understanding of Earth System Science.

[Download Module](#)[Assessment Test](#)

2 Introduction to an Earth Science Sphere

3 GLOBE Protocol under the Selected Earth Science Sphere








## Improved eTraining Protocol Certification Process





Step 2: Select a sphere and complete the Introduction module of the selected sphere.



1 Introduction to GLOBE 

2 Introduction to Atmosphere 

3 GLOBE Protocol under Atmosphere 



Atmosphere Biosphere Hydrosphere Pedosphere

You must complete the assessment for at least one sphere to satisfy your eTraining requirements





**Introduction to Atmosphere**

This module provides an overview of the protocols of the GLOBE Atmosphere Investigation. It also explains how to find the best locations for an atmosphere study site and instrument shelter. After completing it, you will be prepared to learn any atmosphere measurement protocols.

Download Module

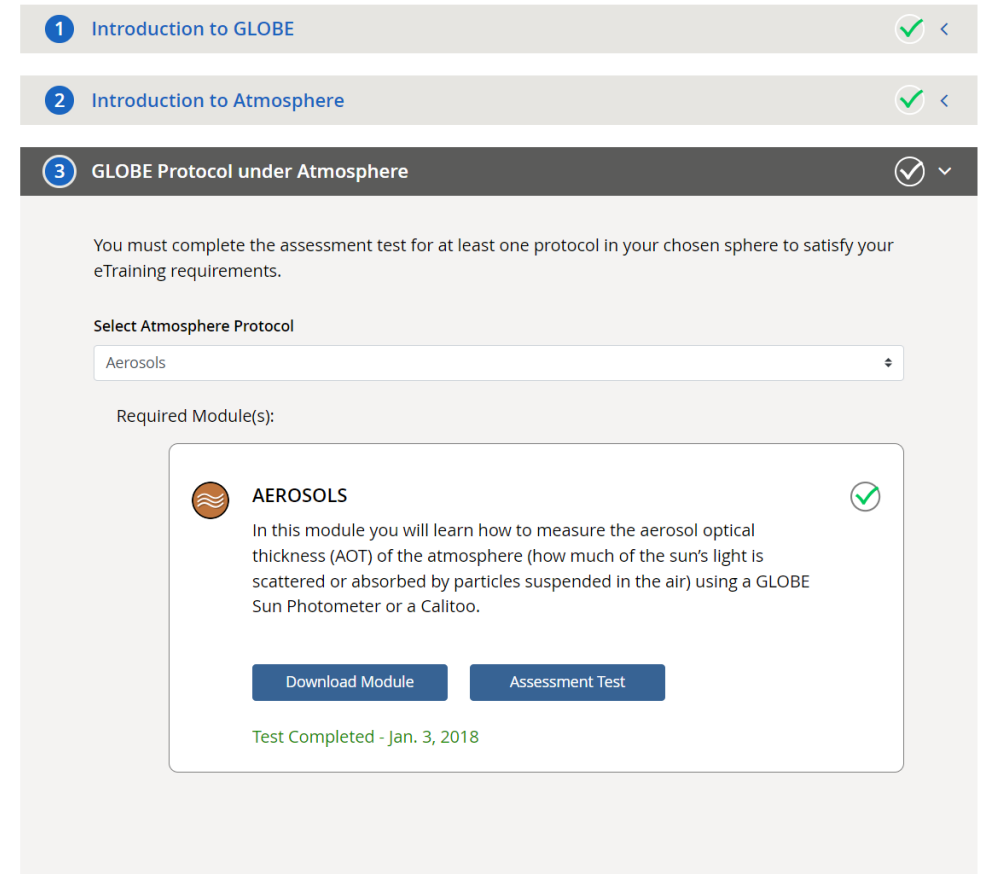
Assessment Test

Test Completed - March 23, 2016

Meeting sponsored by:  Supported by:   

# Improved eTraining Protocol Certification Process

Step 3: Select a protocol under the sphere selected and complete one of the required protocol modules.



1 Introduction to GLOBE ✓ <

2 Introduction to Atmosphere ✓ <


3 GLOBE Protocol under Atmosphere ✓ >

You must complete the assessment test for at least one protocol in your chosen sphere to satisfy your eTraining requirements.

Select Atmosphere Protocol

Aerosols

Required Module(s):

 **AEROSOLS** ✓

In this module you will learn how to measure the aerosol optical thickness (AOT) of the atmosphere (how much of the sun's light is scattered or absorbed by particles suspended in the air) using a GLOBE Sun Photometer or a Calitoo.

Download Module Assessment Test

Test Completed - Jan. 3, 2018



# Improved eTraining Protocol Certification Process

Training is complete and  
you are now certified.

## Protocol Certification Guide

**Congratulations!** You are GLOBE Protocol Certified and are qualified to enter measurements for all GLOBE protocols.

As a trained GLOBE Educator (trained via eTraining or a GLOBE workshop) you can continue to expand your GLOBE knowledge by learning about other protocols and passing the protocol assessment tests. If you wish to be trained in another protocol, select the protocol you wish to be trained in and then click on the training module to learn more. When ready, take the assessment to become trained in the selected protocol.



[View Training  
Record / Certificate](#)

## eTraining Modules Completed for Certification

A green check mark next to a step or module indicates you have completed the required **eTraining** module(s) for certification. Those who have completed their protocol training by attending a workshop are credited in their training records but it is not reflected below.

- 1 Introduction to GLOBE  
- 2 Introduction to an Earth Science Sphere  
- 3 GLOBE Protocol under the Selected Earth Science Sphere  



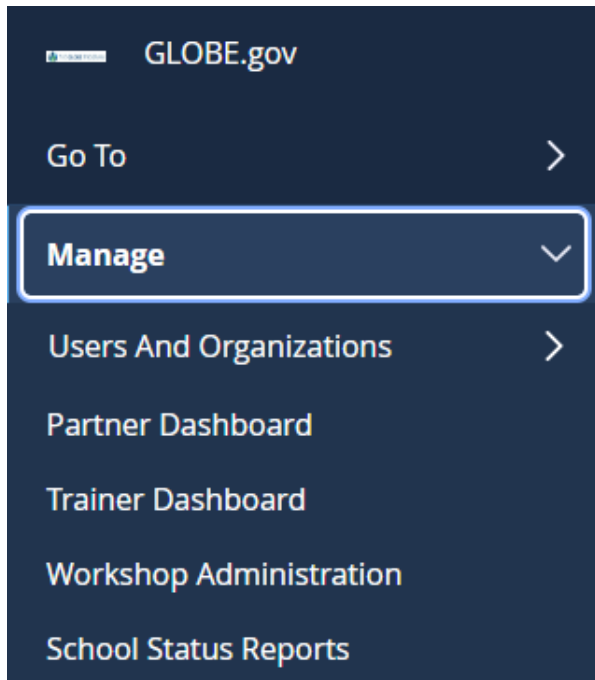


## Upgrading the Website to the latest version of software (Liferay 7.4) – Final development and test

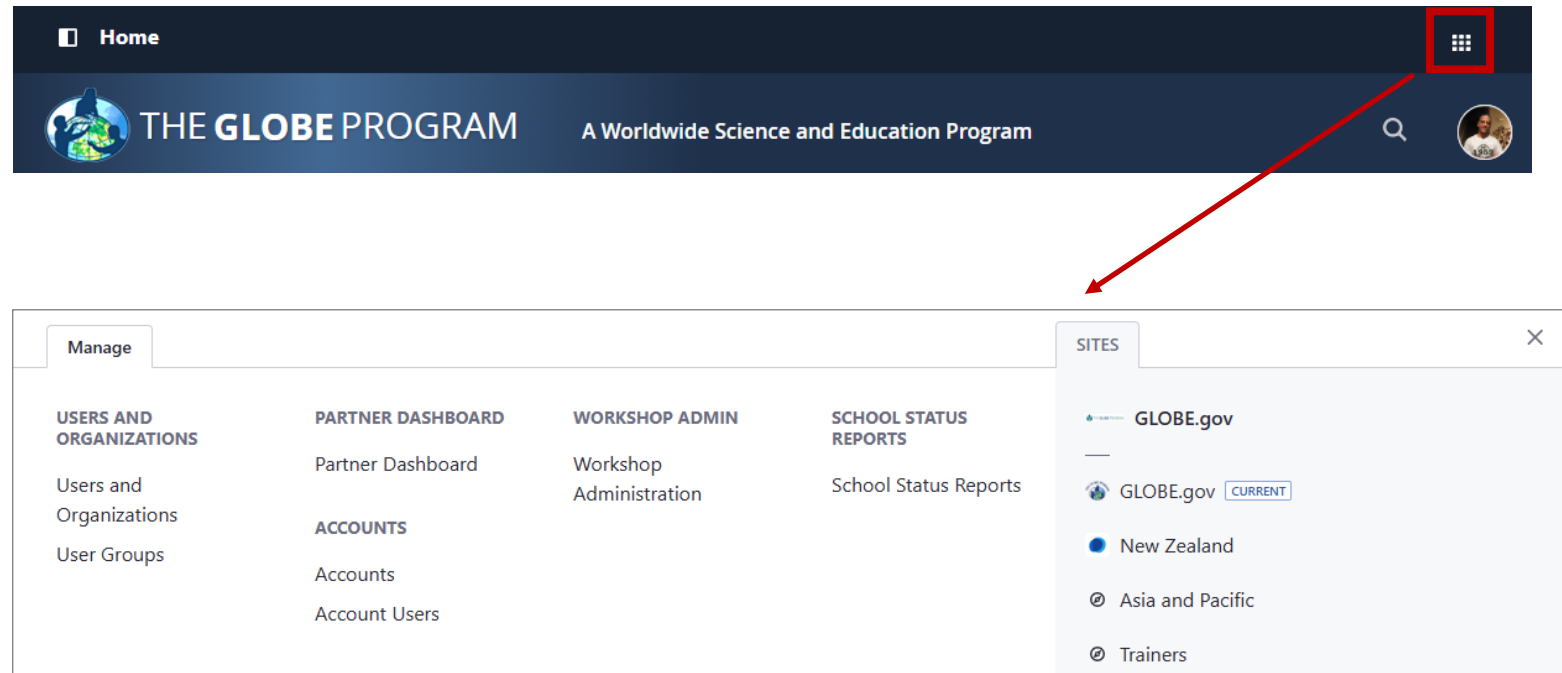
- Improved page and content management tools
- More stable version of Liferay
- Better supported



## Liferay 7.4 Changes – New Location of the Manage Menu



Current

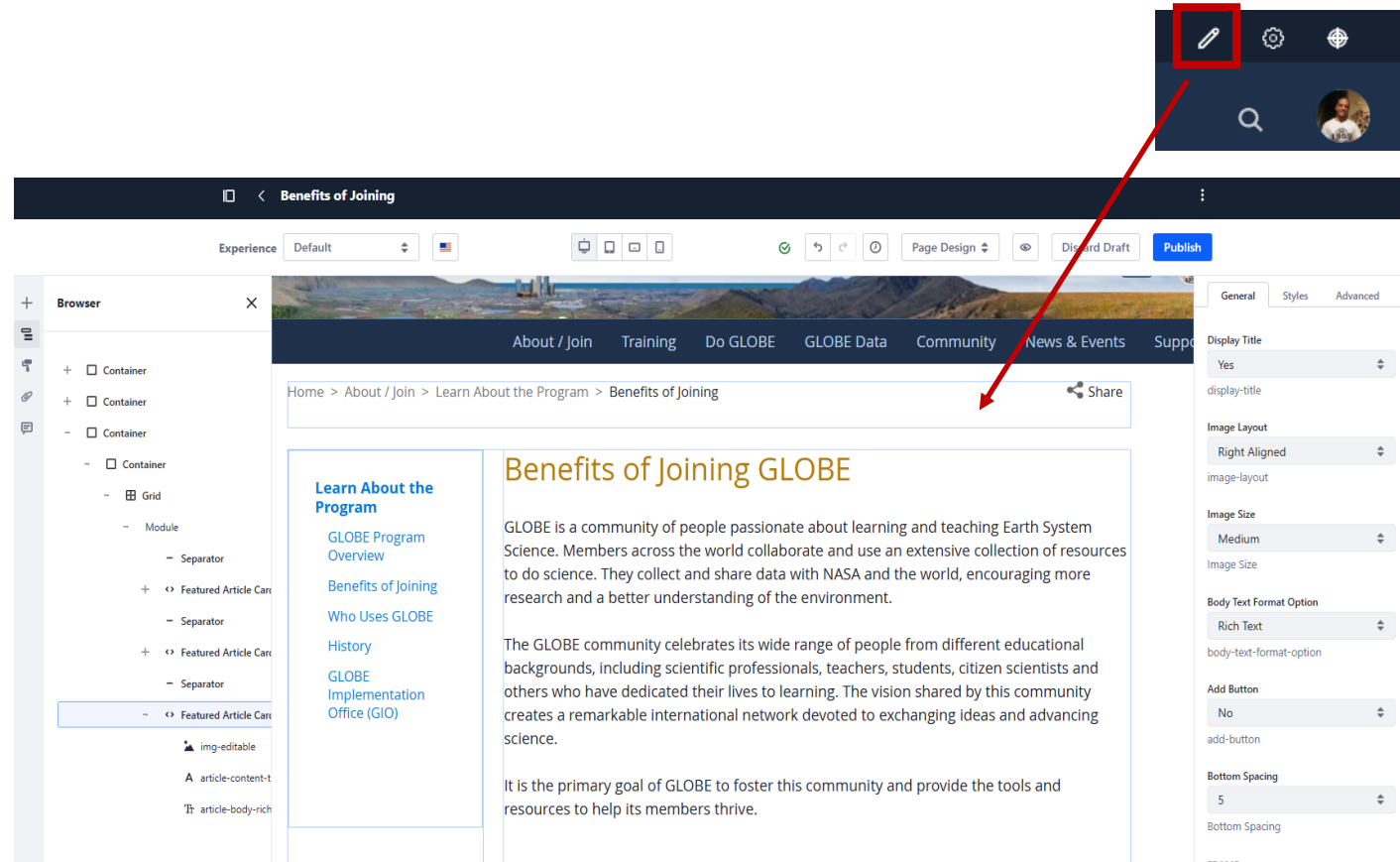


New



## Liferay 7.4 Changes – New Page Type & Editing Interface

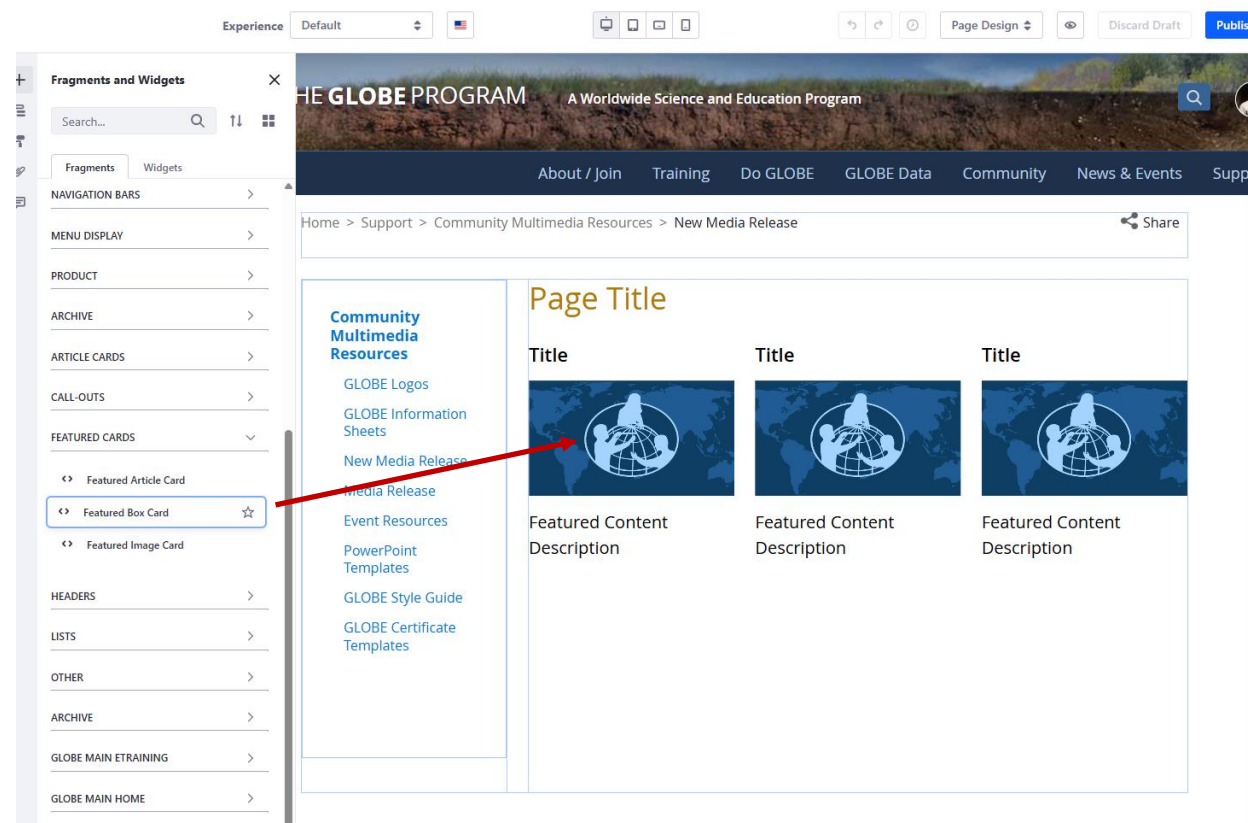
- New page type (Content Page) & interface introduced.





## Liferay 7.4 Changes – New Page Type & Editing Interface

- New page type (Content Page) & interface introduced.
- Improved content creation tools that can be dragged onto the page.





## Liferay 7.4 Changes – New Page Type (Content Pages)

- New page type (Content Page) & interface introduced.
- Improved content creation tools that can be dragged on the page.
- Inline editing capability.

Home > Support > Community Multimedia Resources > New Media Release Form Share

**Community Multimedia Resources**

- GLOBE Logos
- GLOBE Information Sheets
- Media Release
- Event Resources
- PowerPoint Templates
- GLOBE Style

Page Title

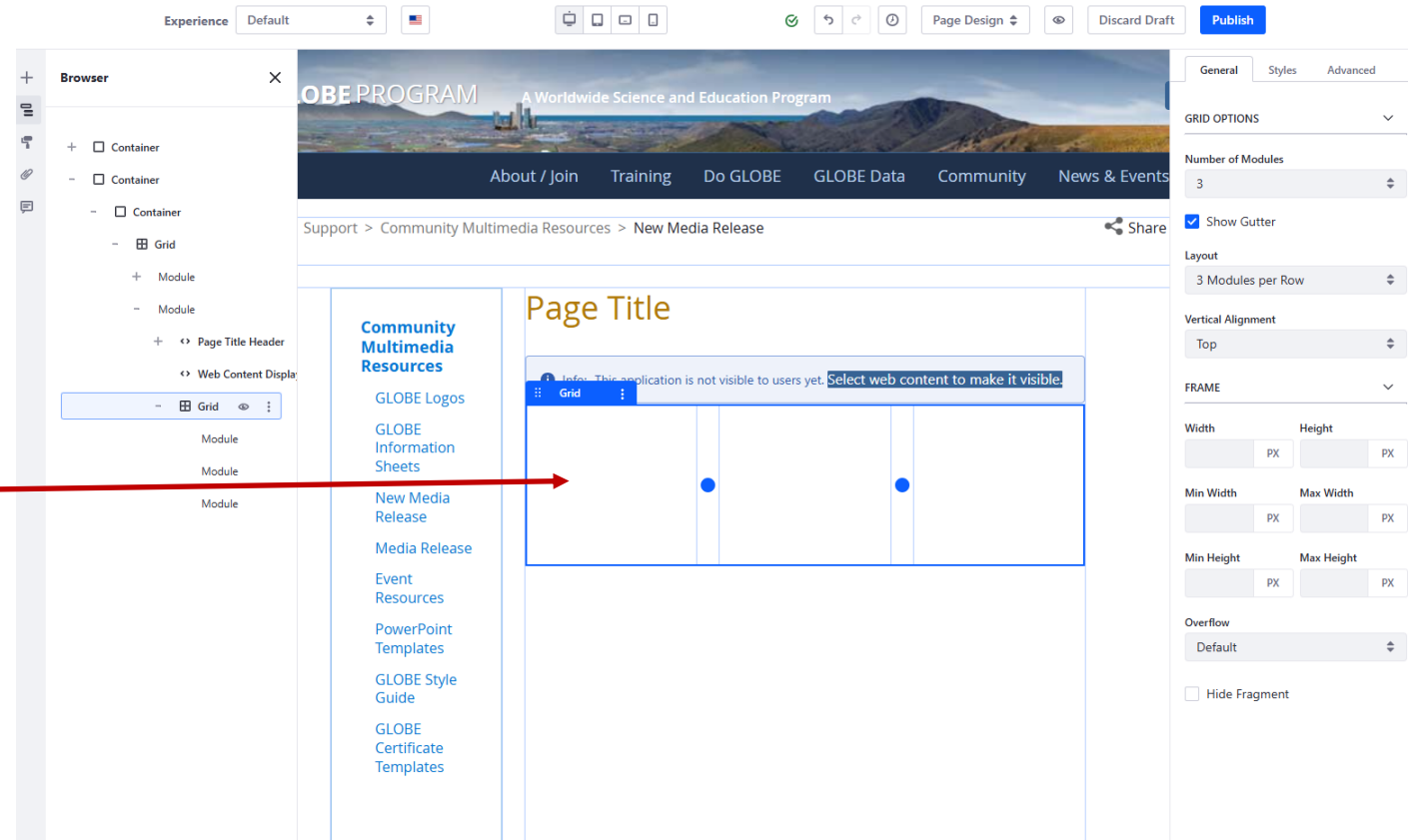
*Info:* This application is not visible to users yet. [Select web content to make it visible.](#)





## Liferay 7.4 Changes – New Page Type & Editing Interface

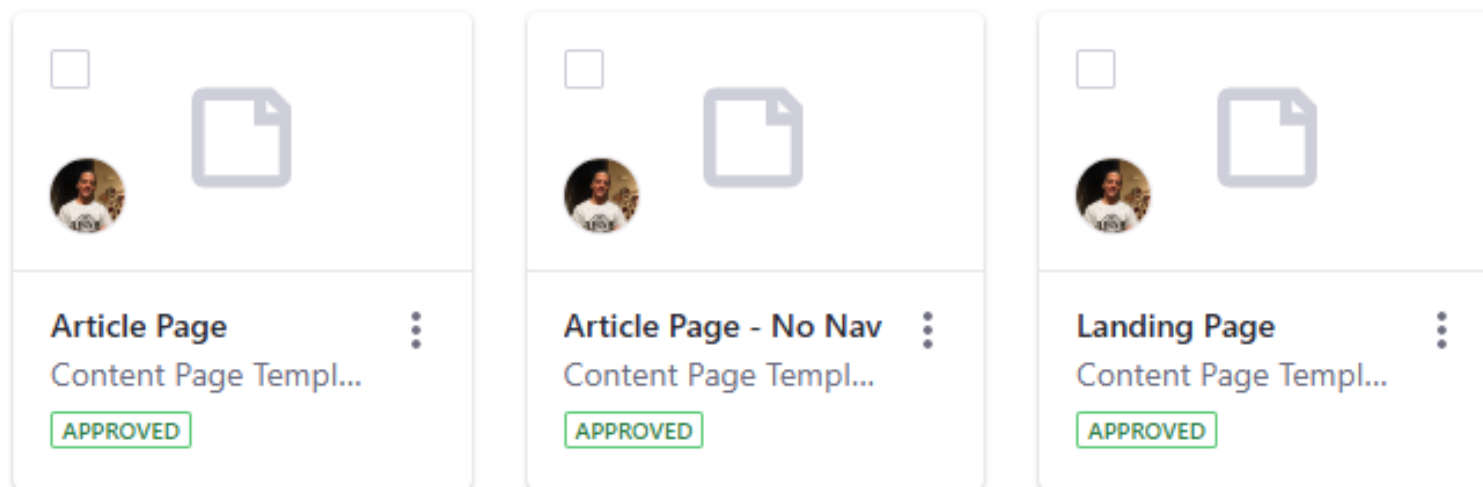
- New page type (Content Page) & interface introduced.
- Improved content creation tools that can be dragged on the page.
- Inline editing capability.
- New configurable grid containers to improve layout capabilities.





## Liferay 7.4 Changes – New Content Page Templates

- Custom page templates can be created for your region or country.





## Other Planned Site Enhancements After the Upgrade

- Integrated Language Translation Tool for all Pages
- Improved Protocol/Teachers Guide Section
- Improved Campaign & Projects Section
- Enhanced User Dashboards
- Member Badges
- Improved Site Search



## Our priorities

- **We hear from you what is important in your country.** Please tell us what you think would improve things.
- Work with your Technology Working Group representative for your region to carry messages and ideas to us.
- Tell us what's working and what you think could be done better – We don't improve without your input.



## Contact Information

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...and thank you again!

For more information visit [www.globe.gov](http://www.globe.gov)

