

# Introduction to GPS Mapping with Avenza Maps



**Brought to you by:**

**The University of Connecticut's  
Center for Land use Education and Research (CLEAR)**



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# ArcGIS Online & Story Maps Workshop

## Workshop Agenda

### Introduction to GPS Mapping with Avenza Maps

This workshop was developed as part of the Geospatial Training Program of the University of Connecticut's Center for Land use Education and Research (CLEAR). The workshop materials were curated and designed by Cary Chadwick and Emily Wilson, Geospatial Extension Educators with the Department of Cooperative Extension in the College of Agriculture, Health and Natural Resources at the University of Connecticut. The current course content was written in November 2023 and revised in January 2024.

CLEAR, established by the University's Board of Trustees in April, 2002, was created to

*provide information, education and assistance to land use decision makers, in support of balancing growth and natural resource protection.*

As part of its mission, CLEAR has developed a number of workshops and courses to help put technical information and technologies into the hands land use decision makers. This course is designed to introduce local land use officials, staff and volunteers - and to a lesser degree other municipal employees and volunteers - to creating and sharing interactive maps and applications on the internet. The workshop is constructed using Environmental Systems Research Institute's (Esri) ArcGIS Online platform which includes story maps. The course focuses on general web GIS concepts, map construction using online data sources, and construction of engaging, interactive story maps that can be utilized to share information with the public.

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### Workshop Prep

In order to successfully complete the activities in this workshop, you must have all of the following:

1. Avenza Maps installed on an Apple iOS or Android device.

Download the free Avenza Maps app from the Apple App Store (iPhone) or Google Play (Android). Get there from: <https://store.avenza.com/pages/app-features>

2. An up-to-date internet browser or two (Mozilla Firefox, Google Chrome, Safari) - It is a good idea to have more than one installed on your computer if possible. We highly recommend using Firefox or Google Chrome. Stay away from Internet Explorer when possible.

3. A folder on your local drive to save download files. On CLEAR's GTP training laptops, this folder is [C://AvenzaTraining](#)

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## Workshop Reference Webpage

Web pages have been developed to support this workshop. They provide relevant information, links to resources, help documents, and tutorials. We recommend keeping the website(s) open in a separate tab of your internet browser throughout the workshop.

<https://s.uconn.edu/avenza>

The screenshot shows the UConn CLEAR website page for the "Introduction to Avenza Maps" workshop. The page header includes the UConn logo and the CLEAR logo. The main content area features the title "Introduction to Avenza Maps" and a sub-section titled "Introduction to GPS Mapping with Avenza Maps". Below this, there is a "Workshop Material Links" section with three links: "Collecting GPS Field Data with Avenza Maps for iOS and Android Devices", "Using the CT Trail Finder Data Schema in Avenza Maps", and "From GPS to Maps".

## Instructor Contacts

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## ArcGIS Online & Story Maps Workshop Workshop Agenda

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	<b>Getting Started</b>	
<b>8:45 AM</b> (15 minutes)	<b>Tech Help &amp; Workshop Set Up</b> Technical assistance for workshop participants & workshop set up	
<b>9:00 AM</b> (15 minutes)	<b>Introductions &amp; Workshop Overview</b> Instructor and workshop participant introductions, overview of workshop agenda	Cary
<b>9:15 AM</b> (45 minutes)	<b>Avenza Maps Overview &amp; Demo</b> Covers the basics of the Avenza Maps app and includes demonstration of how to use the app to collect field data	Cary
<b>10:00 AM</b> (5 minutes)	<b>BioBreak</b> <i>Meet outside at 10:05</i>	
	<b>Give it a Try</b>	
<b>10:05 AM</b> (25 minutes)	<b>Hands On Activity – GPS Data Collection w/ Avenza Maps</b> Collect point and line features in the field	
<b>10:30 AM</b> (5 minutes)	<b>BioBreak</b> <i>Meet back inside at 10:35</i>	
	<b>More about Data</b>	
<b>10:35 AM</b> (30 mins)	<b>Exporting Data, Data Schema, Plot Photos</b> Data Export, Avenza Maps Data Schema, Trail Finder Schema, Plot Photos	Cary Emily
<b>11:05 AM</b> (25 mins)	<b>Hands On Activity – Data Collection</b> Short “hike” around the building to collect “trail” features with the Trail Finder schema in Avenza Maps or try geolocate photos!	
	<b>What Comes Next?</b>	
<b>11:30 – 12:15 PM</b> (45 minutes)	<b>Visualizing Avenza Maps Data</b> Plot photos, open Avenza Maps data in Google Earth, Google Maps (create a MyMap), file conversion and editing in GIS (QGIS)	Emily
<b>12:15-12:30 PM</b> (15 mins)	<b>Wrap Up and Q&amp;A</b> Sharing of resources, information and ideas	
<b>12:30 PM</b>	<b>Workshop Ends!</b>	

