

# DIGITAL MAPPING TECHNIQUES 2021

The following was presented at DMT'21  
(June 7 - 10, 2021 - A Virtual Event)

The contents of this document are provisional

See Presentations and Proceedings  
from the DMT Meetings (1997-2021)

<http://ngmdb.usgs.gov/info/dmt/>

This presentation provides a brief look into our experience using ArcGIS Field Maps, the new field application by ESRI. The Field Map I built is currently only shared within my organization, but you can ask for access through my email.

Overall, we like the app, and it takes the best parts of Survey123 and Collector and combined them into one so that your users don't have to download several applications. I think the Capture function of Field Maps is the most promising and fixes the complaints of capturing polygons in Collector (described here: <https://doc.arcgis.com/en/field-maps/android/help/capture.htm>).

Field Maps is relatively new and not fully released as of July 2021, so some of the kinks and functionality hasn't been fully fleshed out.



# ESRI ARCGIS FIELD MAPS, our experience so far

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DMT June 10, 2021






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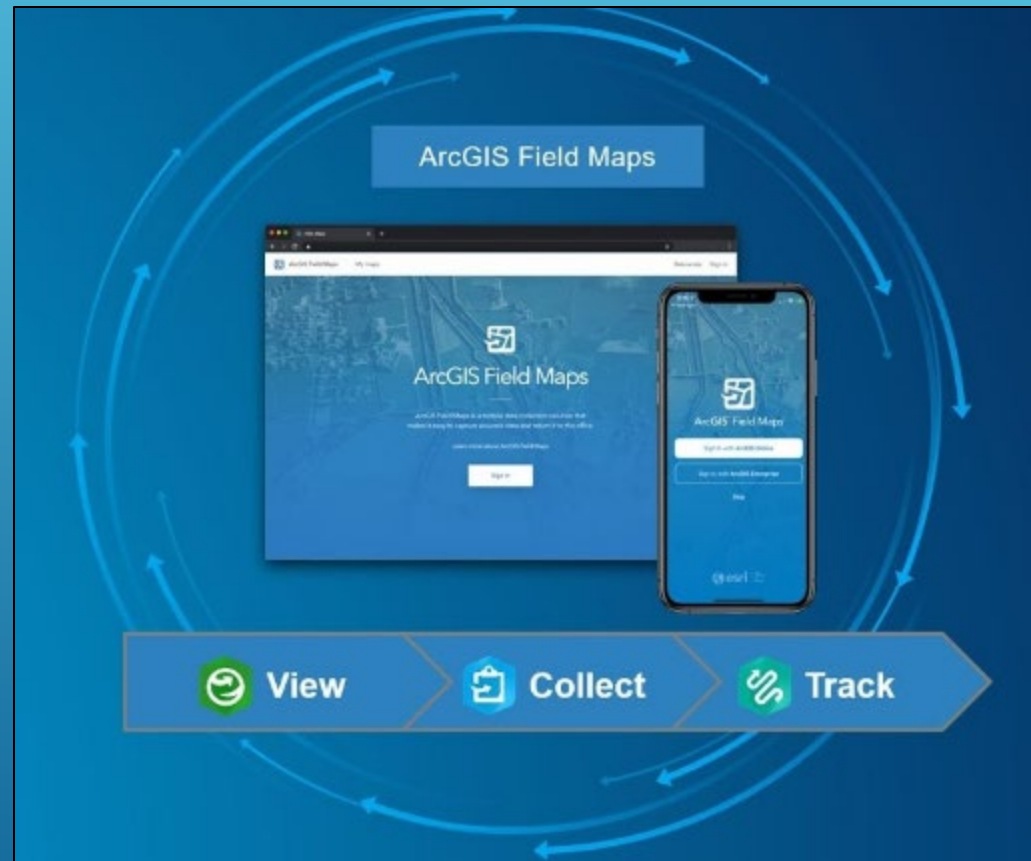


# ANOTHER ESRI APP?

‘the all-in-one app for fieldwork’

- ▶ Last Summer 2020 (beta), Phase I released Fall 2020
- ▶ Map based
- ▶ Smart forms

	Old application	Functionality
	Explorer	Explore maps
	Collector	Collecting data
	Tracker	Tracking position
	Navigator	Navigation
	Workforce	Tasks creation and management



# FIELD MAPS

► Configure maps in ArcGIS Online OR

► Field Maps web application:

<https://www.arcgis.com/apps/fieldmaps/>

Map Viewer

TrianaFieldMap-Download

Open in Map Viewer Classic

Lainey Leblanc

Layers

- Digital\_Geologic\_Map\_of\_Alabama\_polygonsLL\_Digital\_Geologic\_Map\_of\_Alabama\_polygonsLL\_1
- TrianaGeoSurvey
- TrianaCachetile

+ Add layer

Properties

Formatting

Display name: Date

Placeholder

Description

Field name: \_datesTriana

Type: date

Input type: Date and time picker

Range start

Range end

Required

Allow mobile users to edit

Conditional Visibility

+ Add expression

# DATA PREP FOR WEBMAP

- ▶ 1m Lidar Multidirectional Hillshade
- ▶ Generate Tile Cache
- ▶ Create Survey123 form

**Generate Tile Cache Tiling Scheme**

Input Data Source

Output Tiling Scheme

Generation Method

NEW

PREDEFINED

Predefined Tiling Scheme (optional)

Number of Scales

Cell Size (optional)

Scales (optional)

Scale

OK Cancel Environments... << Hide Help

<input type="checkbox"/>	 ALGeoSurvey	Feature Layer (hosted)	
<input type="checkbox"/>	 FieldAppsGeoSurvey_fieldworker	Feature Layer (hosted, view)	
<input type="checkbox"/>	 FieldAppGeoSurvey	Form	
<input type="checkbox"/>	 TrianaGeoSurvey_stakeholder	Feature Layer (hosted, view)	

**TrianaGeoSurvey**

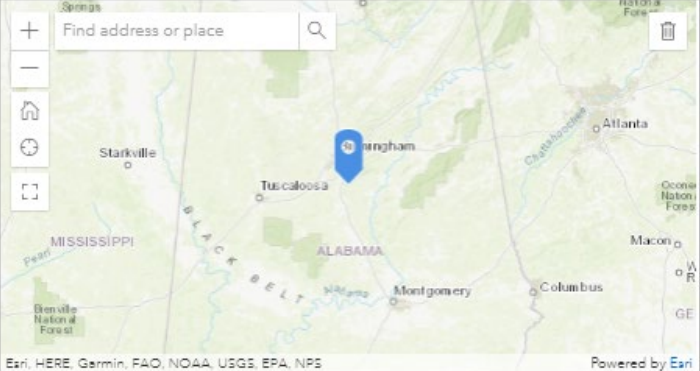
editable layer for Triana field maps

Date

6/4/2021

Point Type

Find address or place



Notes:

Picture:

Select image file

Submit

 Edit thumbnail



 Remove from Favorites

Basemap for export in ESRI Field Maps, Triana Quadrangle

 Web Map by lleblanc\_gsaogb

Created: Nov 30, 2020 Updated: Dec 2, 2020 View Count: 235

 Edit

 Edit

Open in Map Viewer Classic 

Open in ArcGIS Desktop 

Create Presentation

Open in Field Maps

Create Web App 

Share

## Description

Add an in-depth description of the item.

## Layers

[TrianaGeoSurvey](#)

[AlabamaGeology - Digital\\_Geologic\\_Map\\_of\\_Alabama\\_faults](#)

[AlabamaGeology - Digital\\_Geologic\\_Map\\_of\\_Alabama\\_dikes](#)

[AlabamaGeology - Digital\\_Geologic\\_Map\\_of\\_Alabama\\_Devonian\\_line](#)

[AlabamaGeology - arrows](#)

[AlabamaGeology - Geologic Map of Alabama](#)

[TrianaCachetile](#)

 Learn more

## Item Information



 Top Improvement: [Add a longer summary](#)

## Details

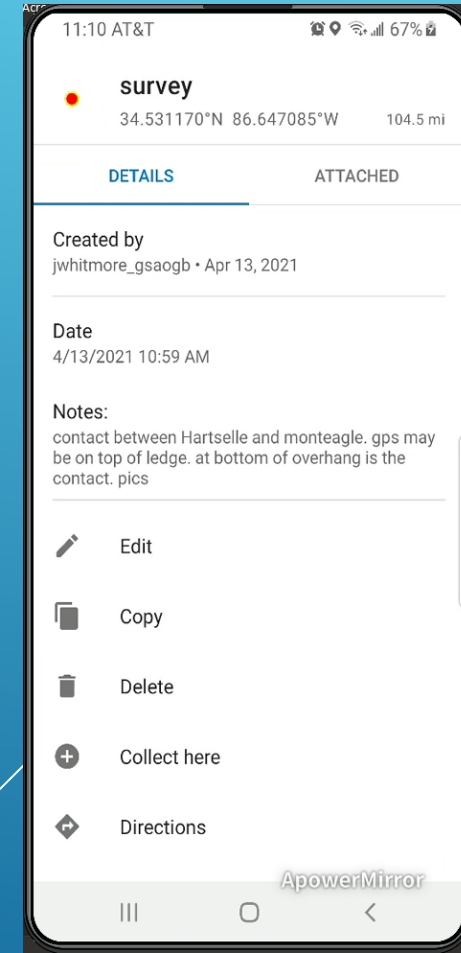
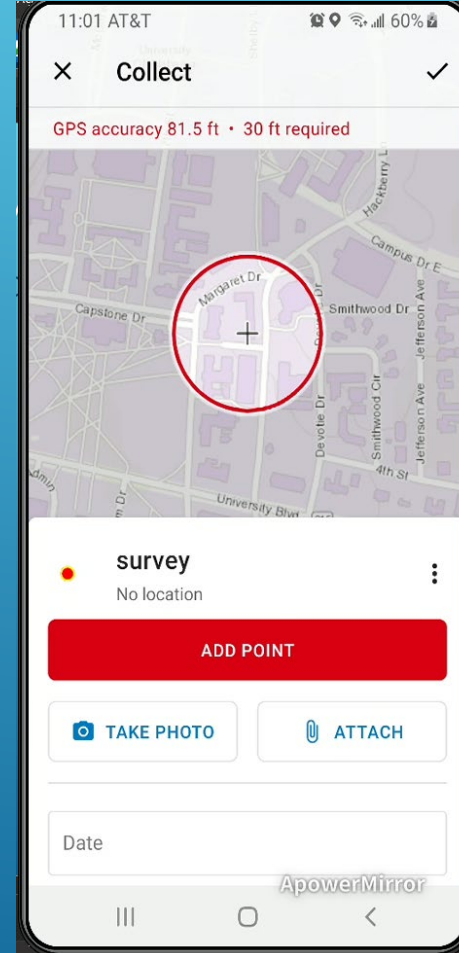
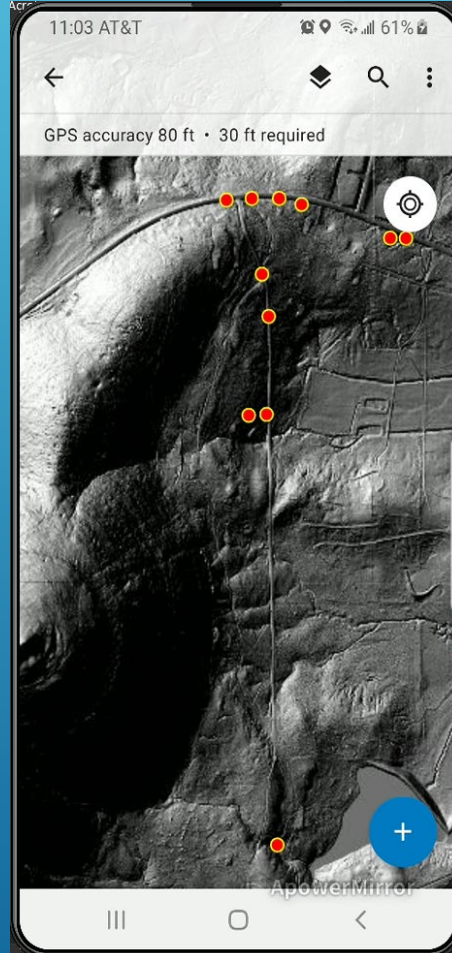
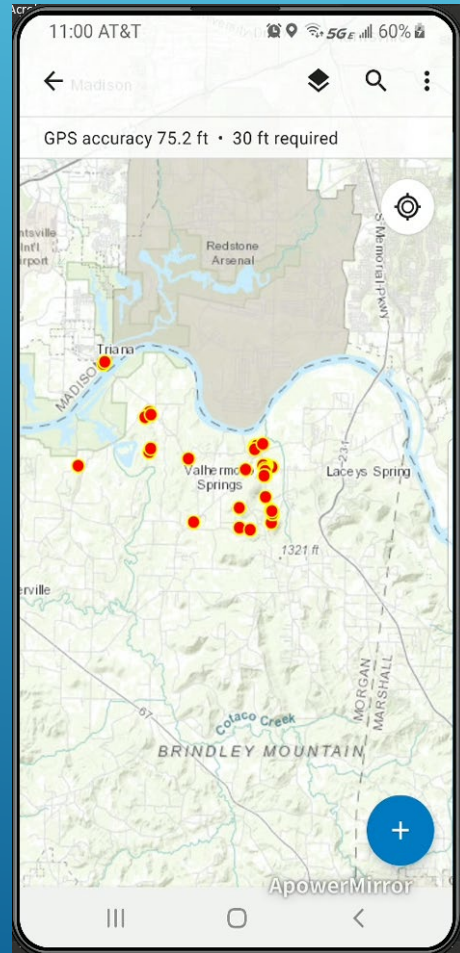
Size: 34 KB



<https://arcg.is/1SnCDz>

# THE MOBILE APP

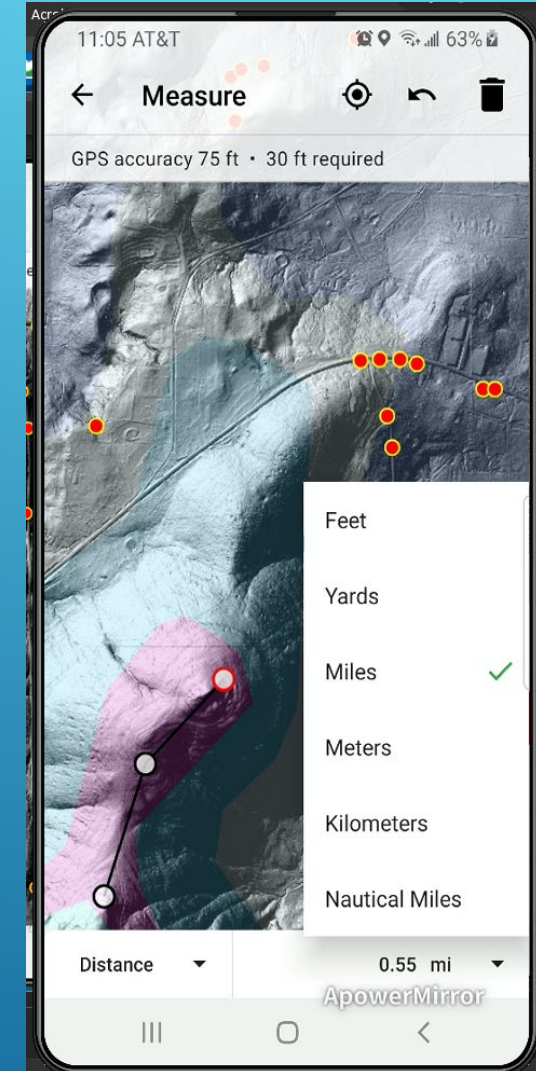
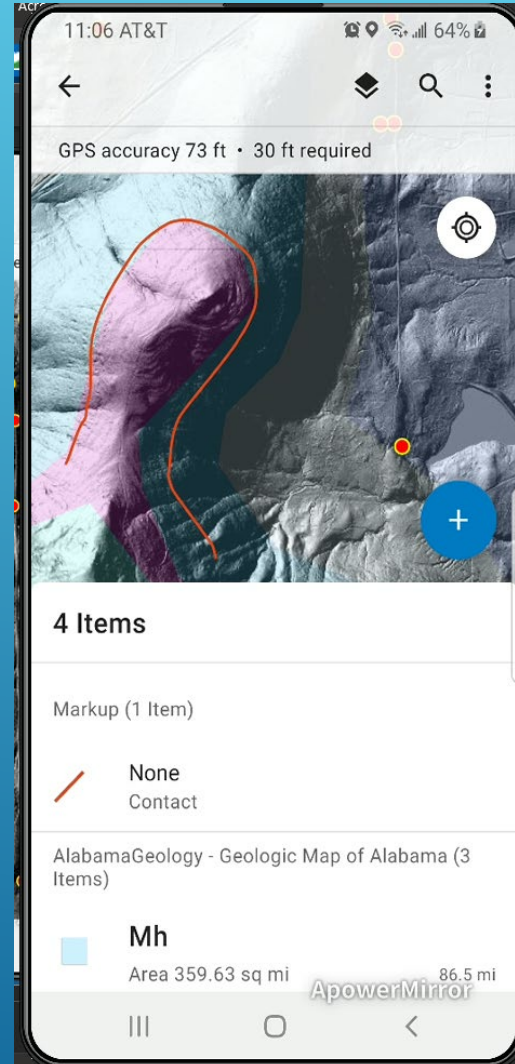
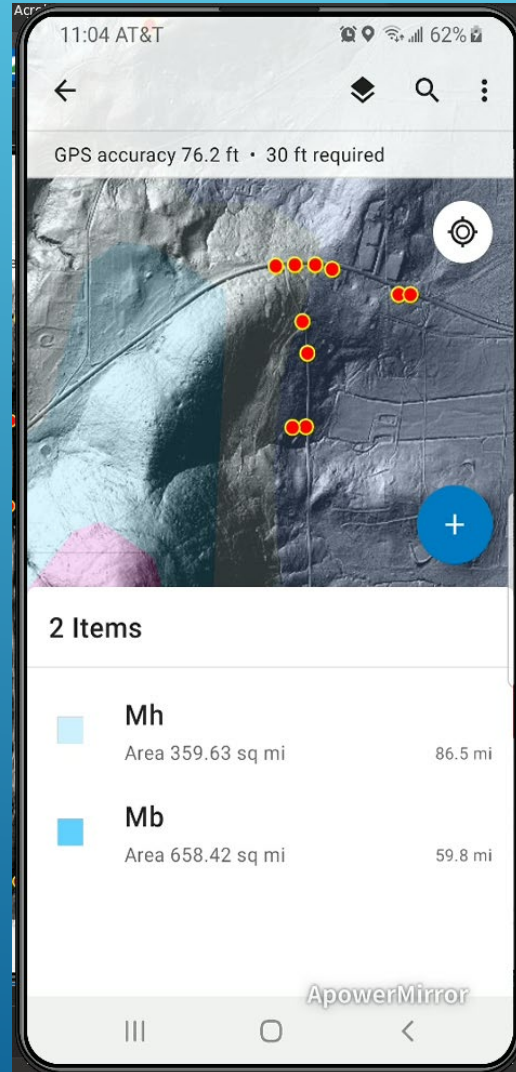
- ▶ Android and iOS
- ▶ Collect points
- ▶ Edit points
- ▶ Attach
- ▶ View attachments
- ▶ Basemap
- ▶ Layers
- ▶ Legend





# THE MOBILE APP

- ▶ Markup
- ▶ Measure
- ▶ Share



# QUESTIONS?

