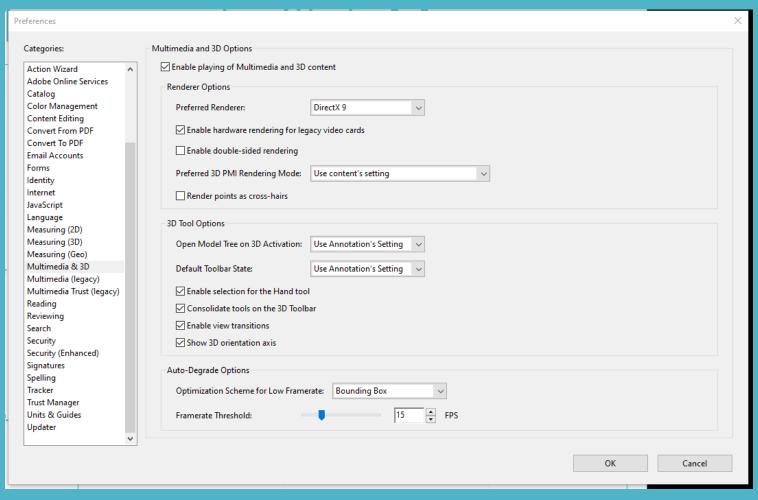




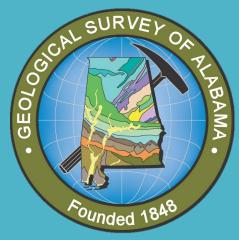
This PDF contains videos, to view the videos you need to download the file. To enable media in Adobe Acrobat, Edit>>Preferences>>Multimedia & 3D>>Check "Enable playing of Multimedia and 3D content."











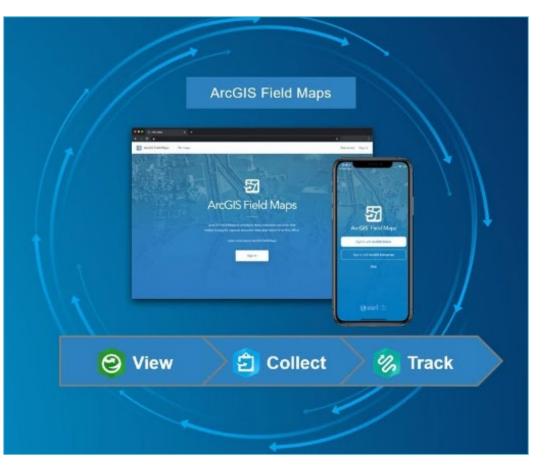
Using Esri ArcGIS Field Maps for geologic fieldwork

Lainey Le Blanc Geological Survey of Alabama DMT May 2022

"The all-in-one app for fieldwork"



	Old application	Functionality
9	Explorer	Explore maps
	Collector	Collecting data
%	Tracker	Tracking positon
②	Navigator	Navigation
	Workforce	Tasks creation and management



Field Maps updates

Web app-ArcGIS Online

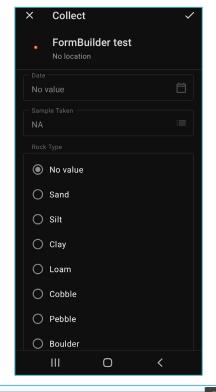
The latest version of the Field Maps web app on ArcGIS Online was released in March 2022. It includes the following:

- Add choice form elements to provide mobile workers with a list of values to choose from when filling out the form.
- Add calculated expressions to automate data entry in the form.
- · Various bug fixes and improvements.

Mobile app-22.2.0 (Android and iOS)

The 22.2.0 release of ArcGIS Field Maps on Android and iOS includes the following:

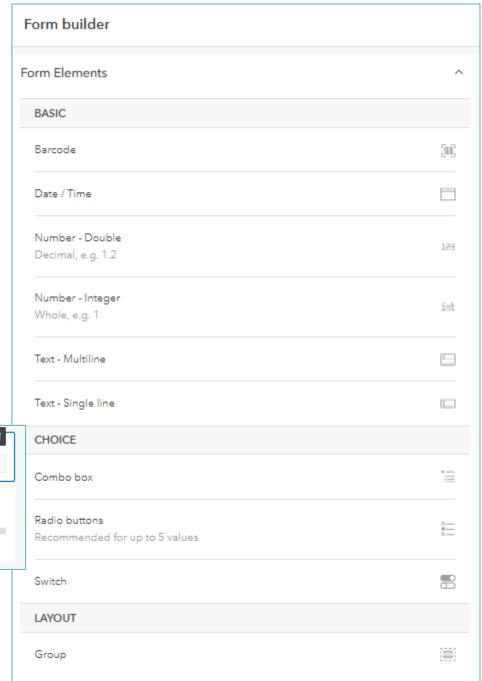
- · Select contingent values when filling out the form.
- Various bug fixes and improvements including the following:
 - BUG-000148306





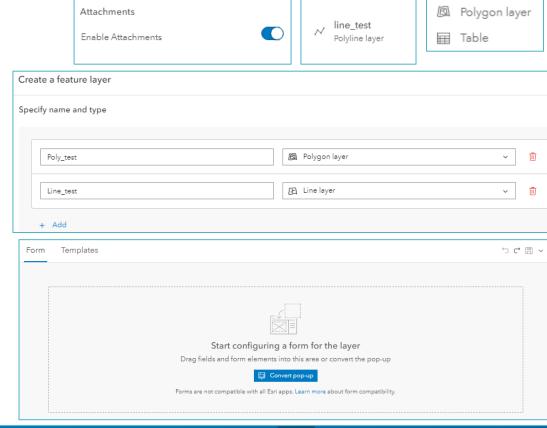
Choice form elements
Calculated expressions
Contingent values
Conditional visibility (12/2021)





Using Form builder

- Create a feature layer
- Drag and drop form elements
- Or add fields in the Data table
- Existing fields in a feature layer can be configured as form elements or converted from a pop-up

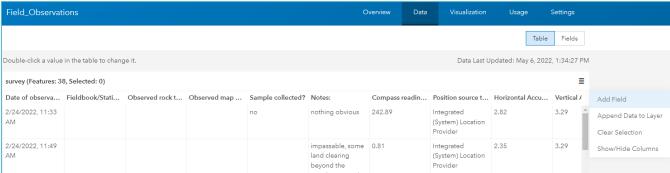


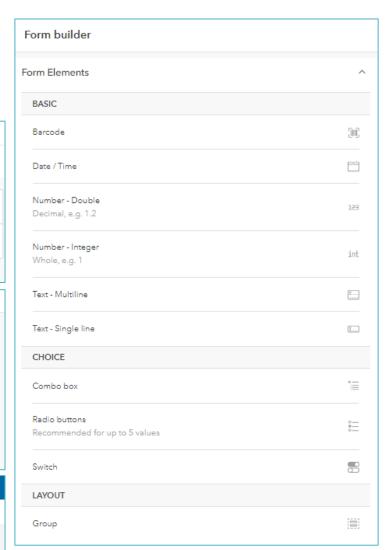
Layers

Point layer

Æ Line layer

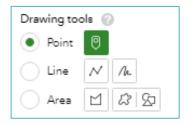


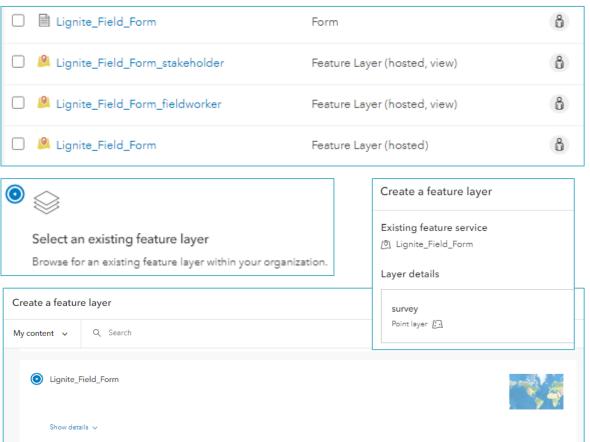


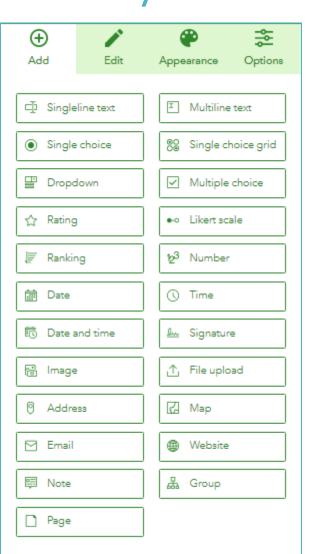


How I built my data collection layers

- ■Build form in web app Survey123
- Create a feature layer using the existing Survey123 form



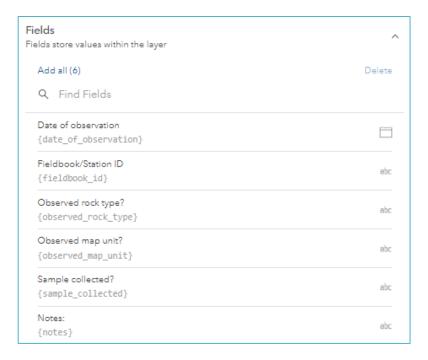


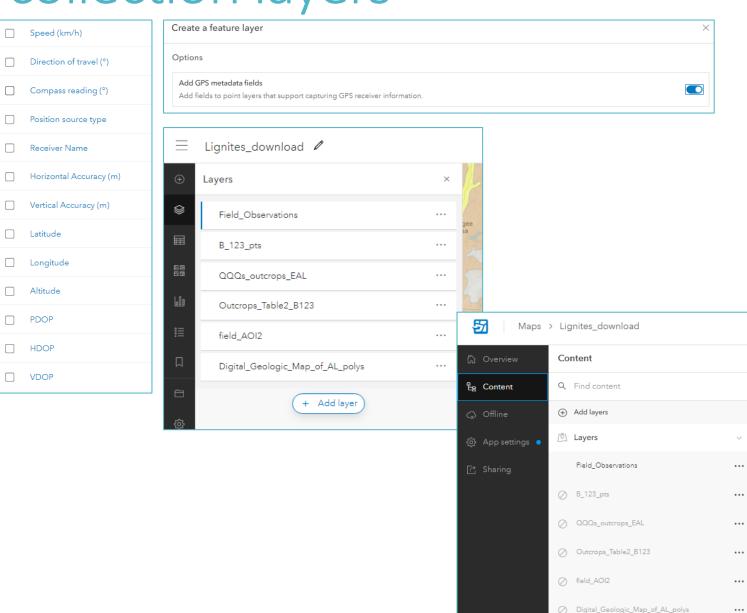




How I built my data collection layers

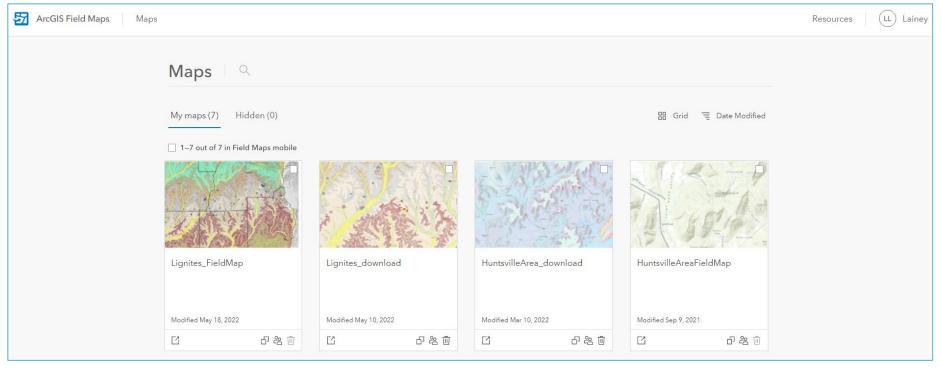
- Add GPS metadata fields
- Add data collection feature layer into AGOL Map, you can add Content in Field Maps web app too
- ■The existing fields in the feature layer can be added to the Form builder or converted from a pop-up

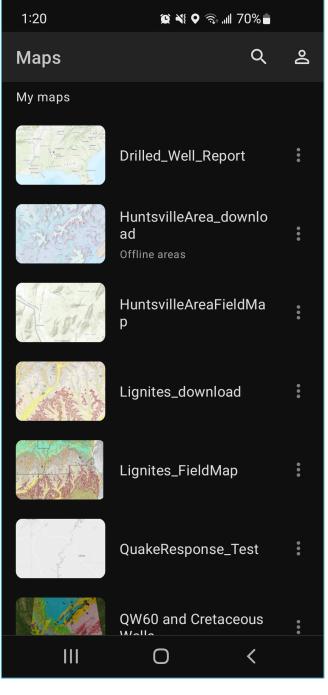




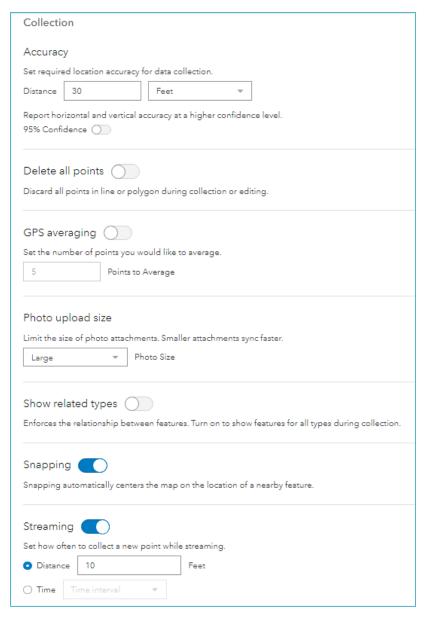
After you save your map

It automatically appears in your Field Maps web application and mobile app





Collecting data

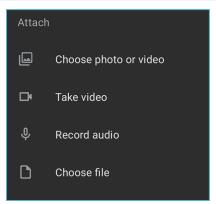


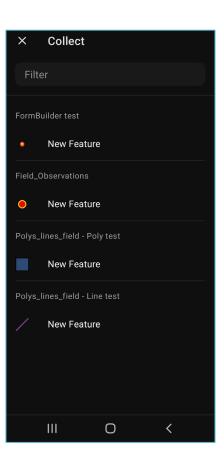
You can capture data

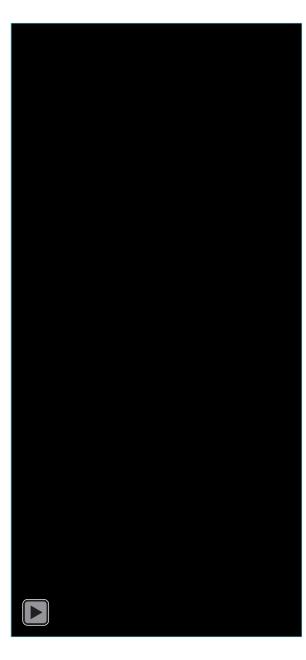
- at your location
- automatically while walking or driving (streaming)
- at a location chosen on the map
- ■at an X, Y coordinate

Collect point, polygon, and line data

https://doc.arcgis.com/en/field-maps/android/help/capture.htm

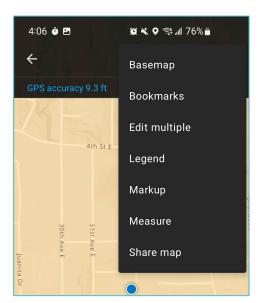


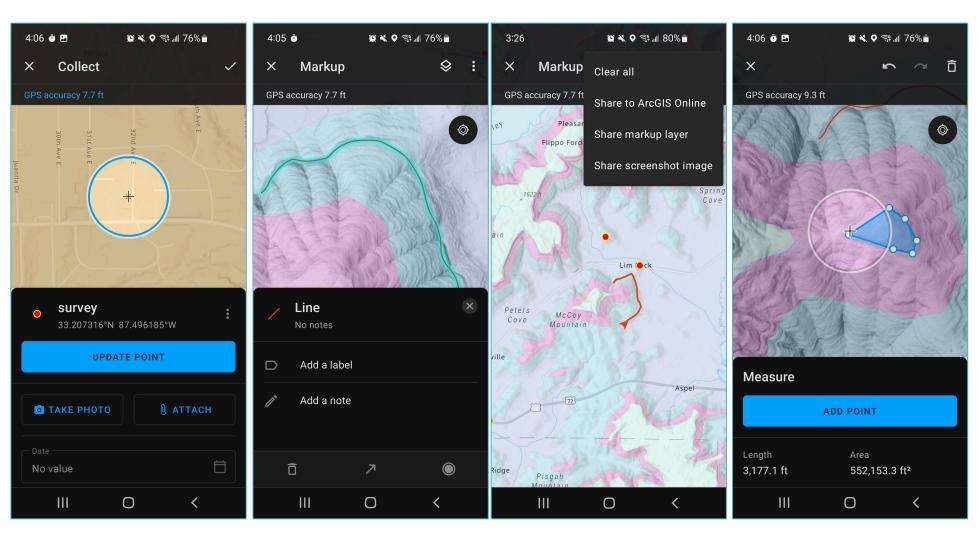




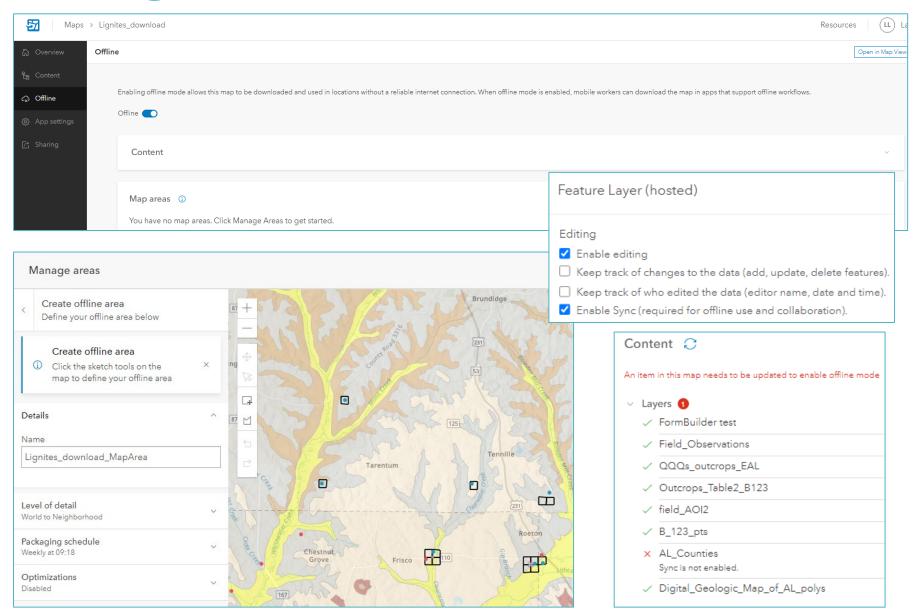
In the Mobile app

- Android and iOS
- Edit existing points
- Attach files
- View attachments
- Change base-map
- Change layers
- Markup
- Measure





Taking offline





Field Map example, StateMap



Add to Favorites

Huntsville Area field map for download.

Web Map by lleblanc_gsaogb

Created: Mar 2, 2022 Updated: Mar 10, 2022 View Count: 71

Description

Huntsville Area web map for use in Field Maps application. Downloadable.

Layers

ALGeoSurvey
Feature Layer

Digital_Geologic_Map_of_AL_polys
Feature Layer

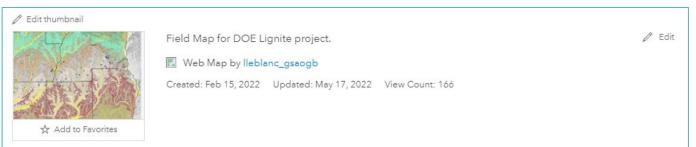
LimPaintRock_HS
Tile Layer

TrianaCachetile
Tile Layer

survey (Features: 50, Selected: 1)			
Date	Notes:	Photos and Files	
4/12/2021, 1:22 PM	contact with monteagle and Hartselle is 2 m above my head. pics on phone. artifact digging going on. possible wall. top of monteagle ia a 2m thick cb set. upper 30 cm is horizontal. Hartselle is 30-40 cm cb sets. shallow dippinh.	(1) Show	
4/12/2021, 1:34 PM	~3m above me is the contact	(0) Add	
4/12/2021, 2:15 PM	Hartselle dipping steeply to the southeast	(0) Add	
4/12/2021, 2:37 PM	oolitic light gray limestone.	(0) Add	
4/12/2021, 2:42 PM	mudstone interbedded with criboid and brachippod rich limestone. fossil brach collected, see photo.	(2) Show	
4/12/2021, 2:48 PM	v light gray micritic ls	(0) Add	
4/12/2021, 2:50 PM	micritic spar. spar seems to form flakes that are weathering out. also partially articulated crinoid stalks and archimedes.	(1) Show	



Field Map example, DOE Lignite



Description

/ Edit

Web map created for use in Field Maps for data collection in the field for the DOE Lignites project, 2022. Contains a hillshade basemap, the map unit polygons of the geologic map of Alabama, a data point collection feature layer, drill hole points from the Alabama Lignite publication (Bulletin 123), and outcrop quarter sections pulled from Table 2 in B123.

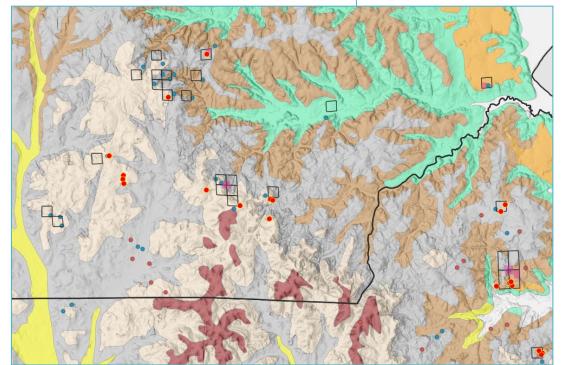
✓ Options Cache automatically on the server Cache manually on the server Cache locally ① Temp cache location C:\Users\LLeBlanc\AppData\Loca ✓ Allow clients to export cache tiles Limit export to 100000 tiles

Layers

- Field_Observations
 Feature Layer
- QQQs_outcrops_EAL
 Feature Layer
- Outcrops_Table2_B123
 Feature Layer
- field_AOI2
 Feature Layer
- B_123_pts
 Feature Layer
- AL_Counties
 Feature Layer
- Digital_Geologic_Map_of_AL_polys
 Feature Layer

Basemap

- hillshade_SE_AL Basemap
- hillshade_SE_AL
 Tile Layer





Field Map example, EarthMRI

EMRI_FY21-23_Mapping



Earth MRI FY21-23 project map for Field Maps. Includes topographic basemap, LiDAR hillshade, unpublished student geologic map data, project station data, and sample locations. See individual layers for details. Quadrangles: Mitchell Dam, Flag Mountain

Web Map by ebollen_gsaogb

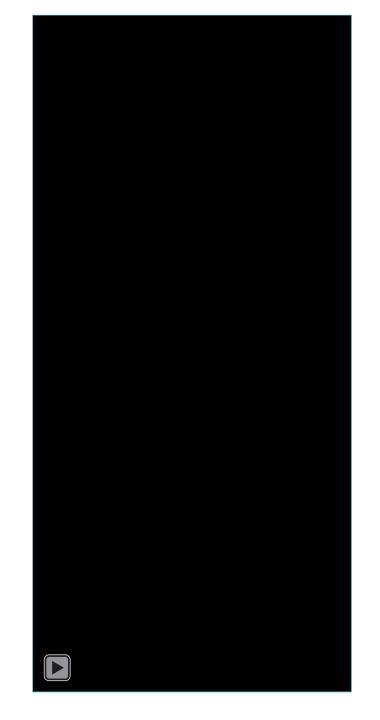
Created: Oct 19, 2021 Updated: May 6, 2022 View Count: 259

Description

An in-depth description of the item is not available.

Layers

- Samples_March11_2022
 Feature Layer
- Stations_March11_2022
 Feature Layer
- QuadBoundaries
 Feature Layer
- AllisonGeoMapping_tif
- EMRI_AOIhs
 Tile Layer



Future improvements?

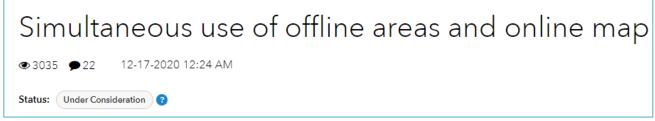


Enable easier access to attachments / photos captured with Field Maps - batch download from AGOL or local saving to device

1273 • 7 03-01-2021 07:37 AM

Status: Open 9

https://community.esri.com/t5/arcgis-field-maps-ideas/enable-easier-access-to-attachments-photos/idi-p/1031523



https://community.esri.com/t5/arcgis-field-maps-ideas/simultaneous-use-of-offline-areas-and-online-map/idi-p/1010512

