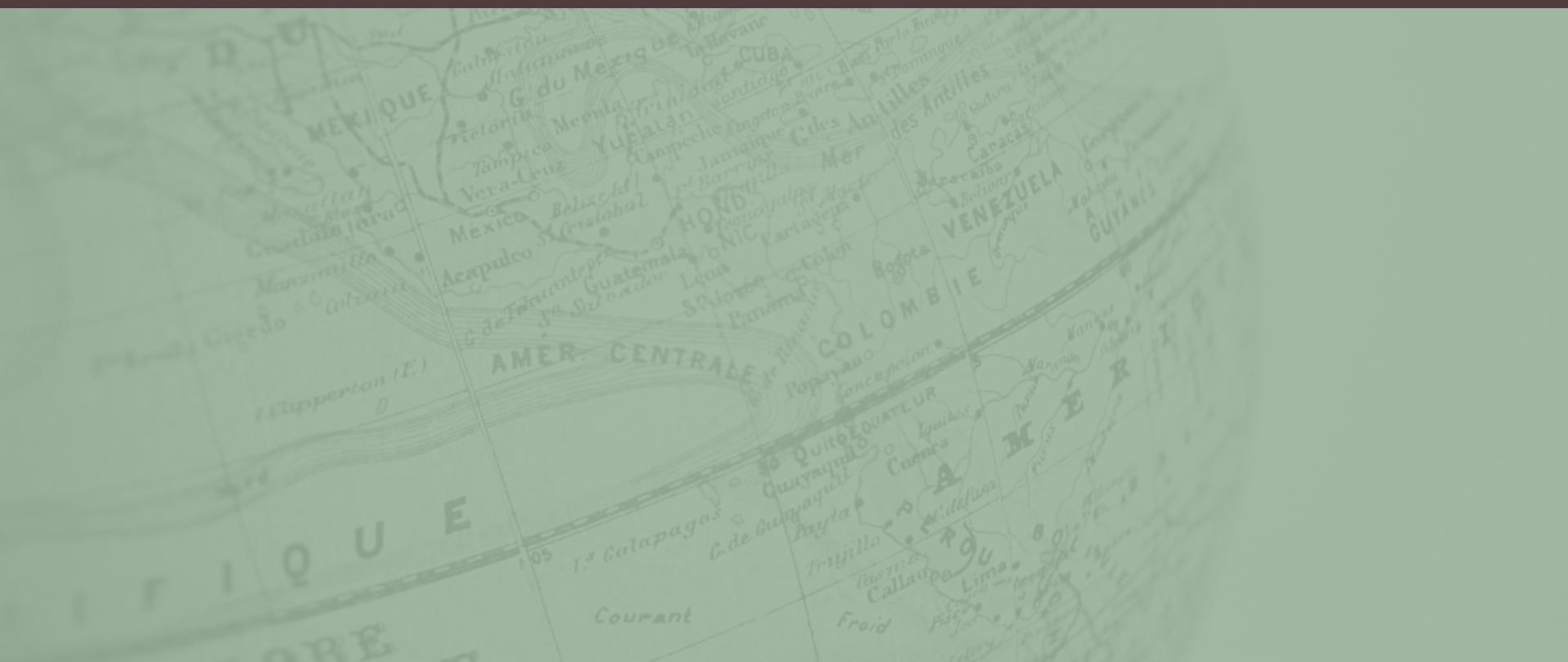


# USING COLLECTOR FOR GEOLOGIC MAPPING

Scott Brame



# STATEMENT OF PROBLEM

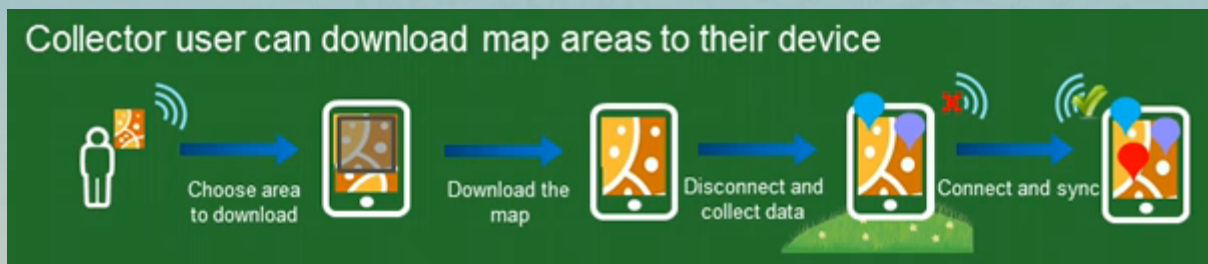
- Data collection for geologic mapping has traditionally been done on paper maps or more recently with GPS collecting waypoints and writing down field data into a logbook
- Transferring the data to ArcGIS is often a cumbersome process
- This process gets even more complicated when you have multiple mappers collecting data for the same map



Rock Outcrop

# ENTER COLLECTOR

- Collector allows multiple users to collect data simultaneously for the same map area
- All data is automatically uploaded to ArcGIS account
- Data fields can be limited to specific options or number ranges to minimize entry errors



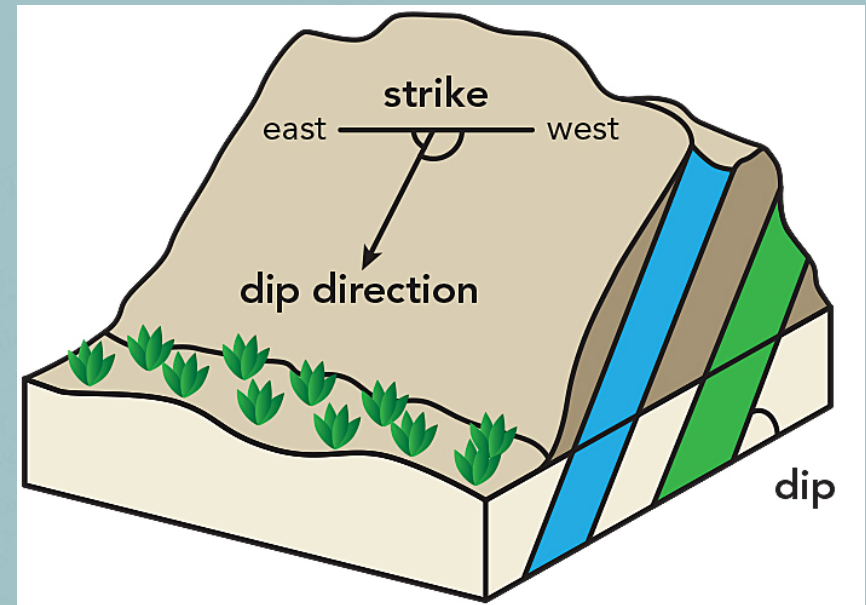
# DATA REQUIREMENTS FOR MAPPING

In addition to:

- Outcrop ID#
- Rock type
- Comments

You need the orientation of the rock formation which has three components:

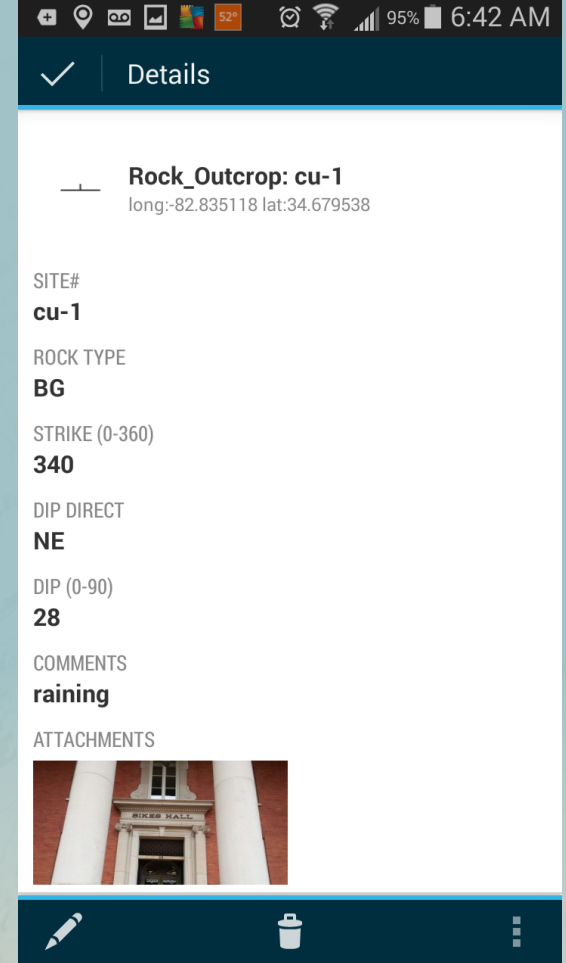
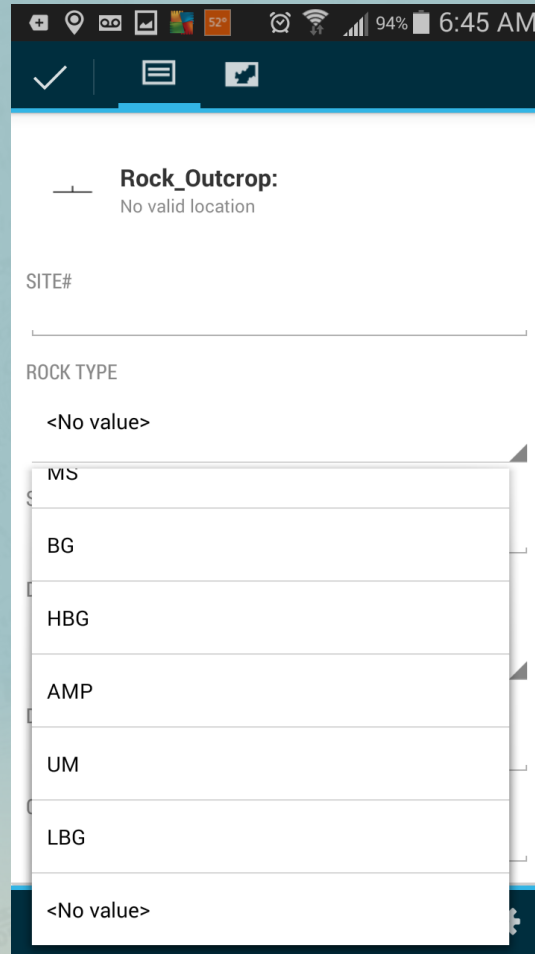
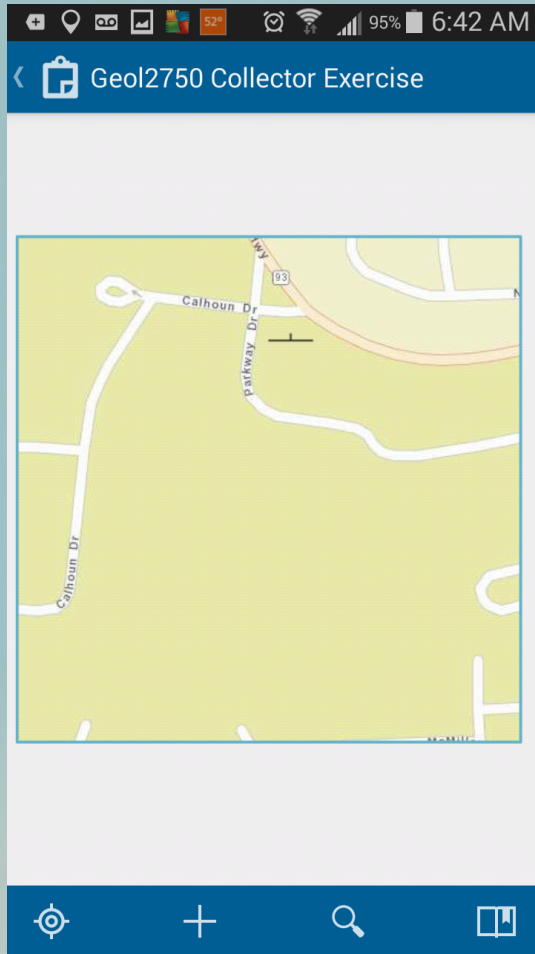
- Dip  $\alpha$  (0-90°)
- dip direction (N, NE, E, SE, S, SW, W, NW)
- Strike (in azimuth, 0-360°)



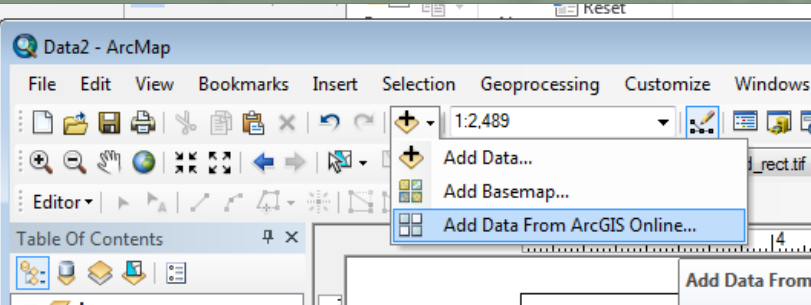
# CAVEATS FOR USING COLLECTOR

- Mapping area must be defined before you start collecting data
- The data fields must be set up before you start collecting (cannot be done in the field)
- All users must download application and register before collecting
- An ArcGIS online must be setup that will interface with Collector data
- To get the data into ArcGIS desktop, it must first be brought into ArcGIS online

# USING COLLECTOR IN FIELD



# GET DATA DIRECTLY FROM ARCGIS ONLINE



Search ArcGIS Online...



Data Groups

Sign in



Search ArcGIS Online...



Data Groups

Geology Class

Sign Out

Featured My Data My Groups

My Group: Geol2750

## Geol2750

Properties Description

Summary This is for Scott Brame's class.

Tags [clemson](#)

Contact

### Rock\_Outcrop

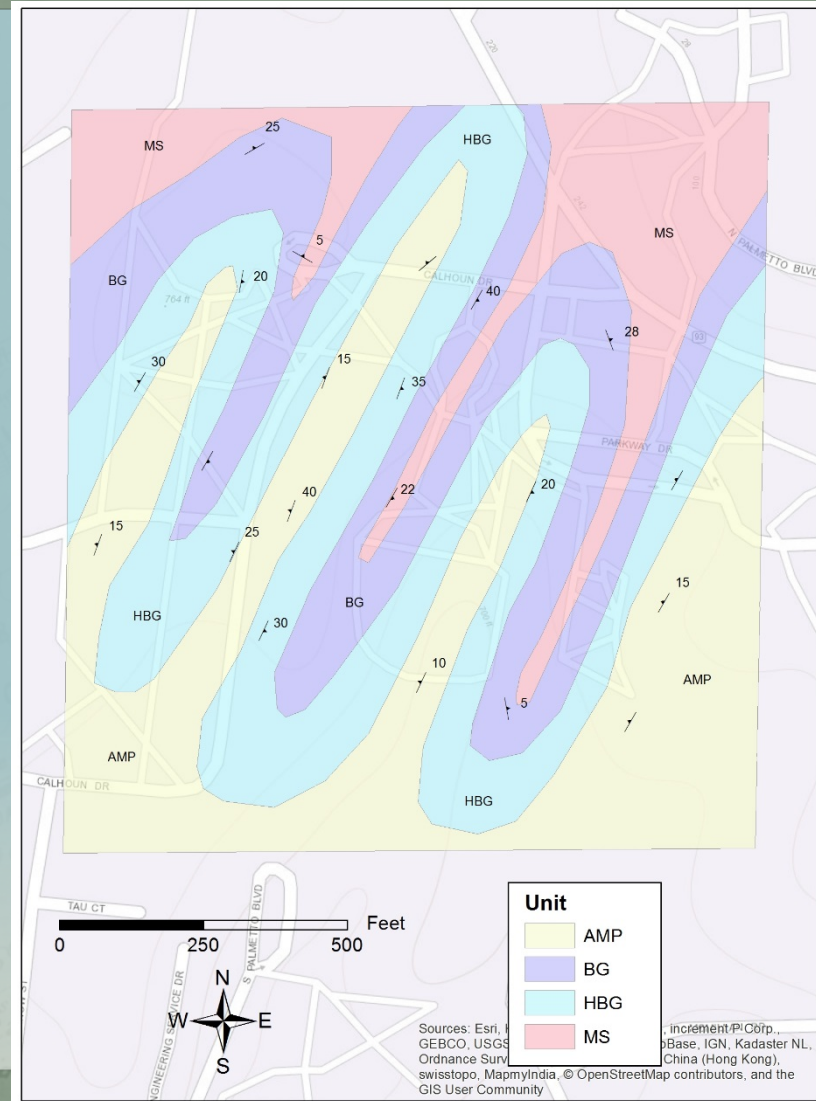
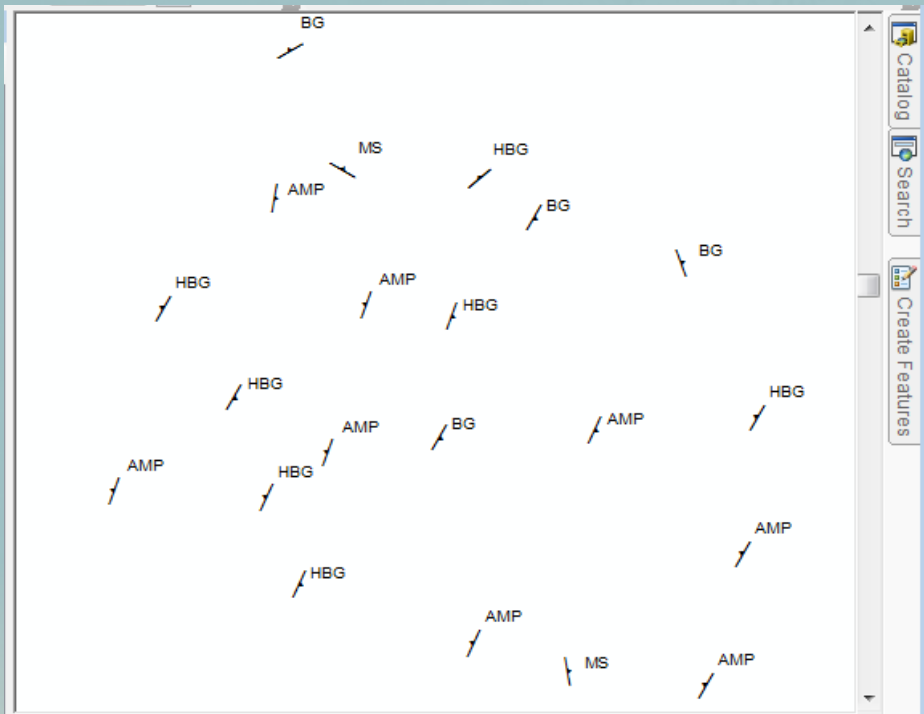
Geology mapping at Clemson University with ArcGIS Collector

Feature Service by GISManager\_Clemson 9/28/2015

Details

Add

# DATA POINTS > GEOLOGIC INTERPRETATION



# EVEN MY STUDENTS CAN USE IT



# POTENTIAL FOR REAL TIME DATA

## ArcGIS supports real-time GIS

