USING COLLECTOR FOR GEOLOGIC MAPPING

Scott Brame

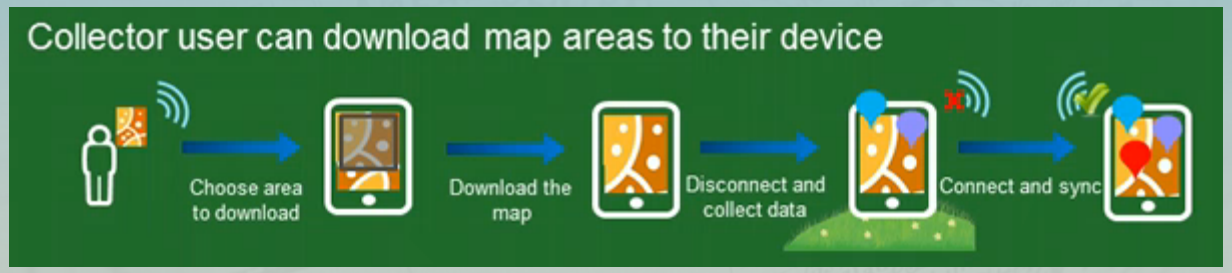
STATEMENT OF PROBLEM

- 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

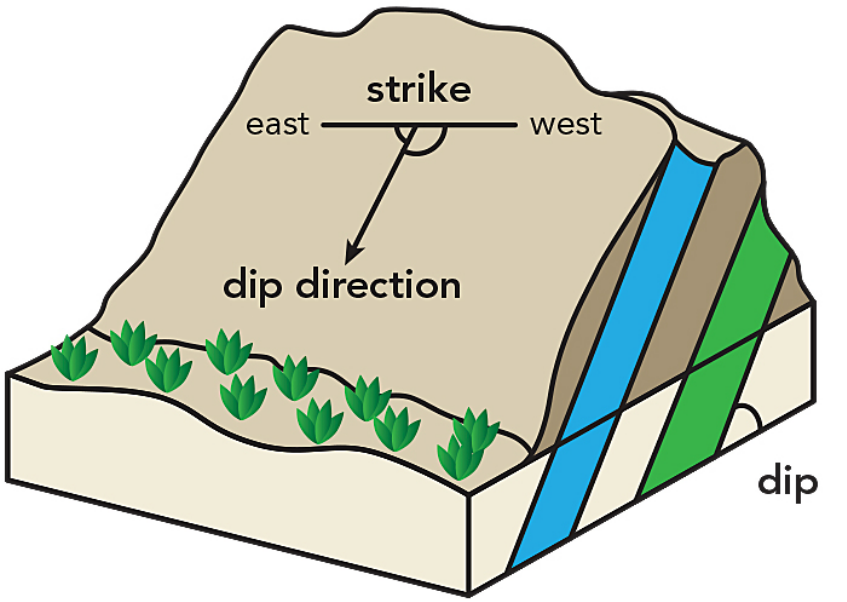


DATA REQUIREMENTS FOR MAPPING

In addition to:

- Outcrop ID#
- Rock type
- Comments

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

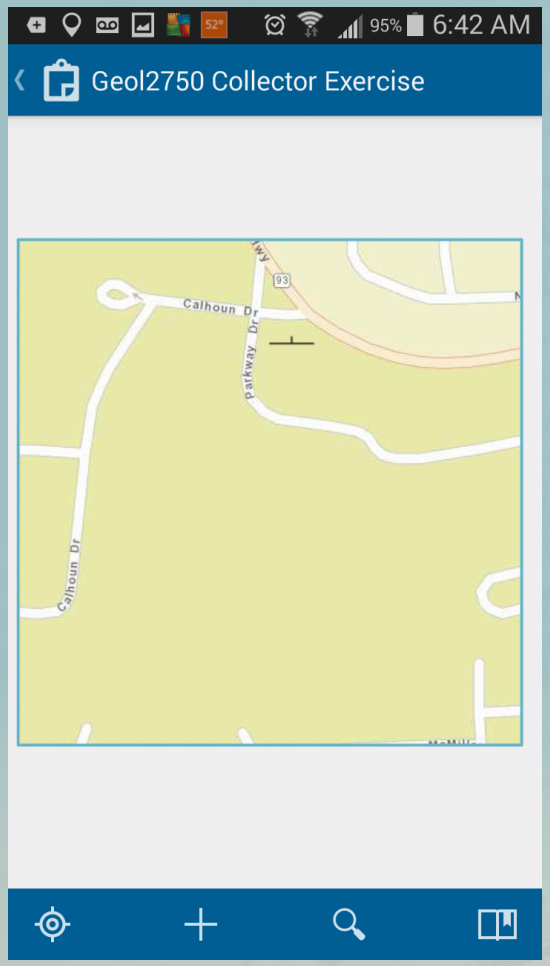


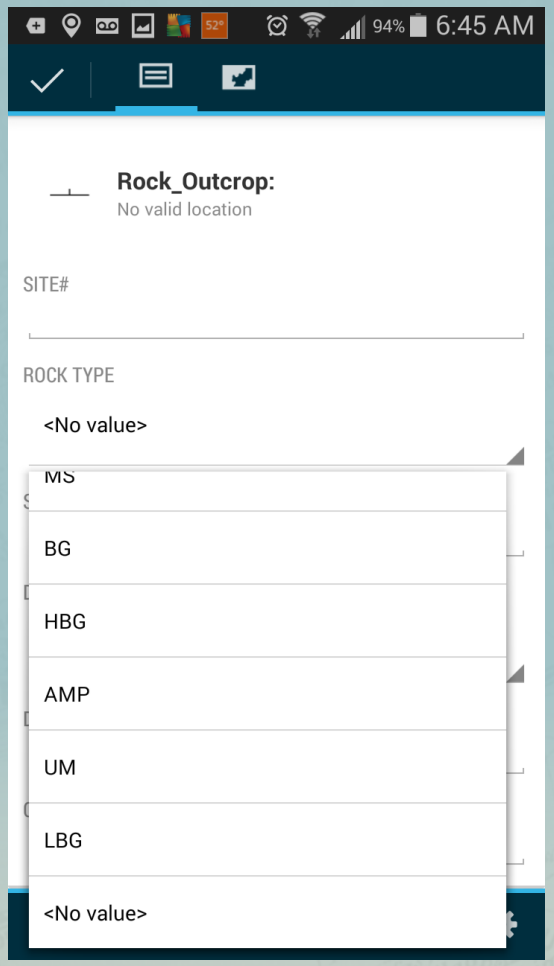
- Dip α (0-90°)
- dip direction (N, NE, E, SE, S, SW, W, NW
- Strike (in azimuth, 0-360°)

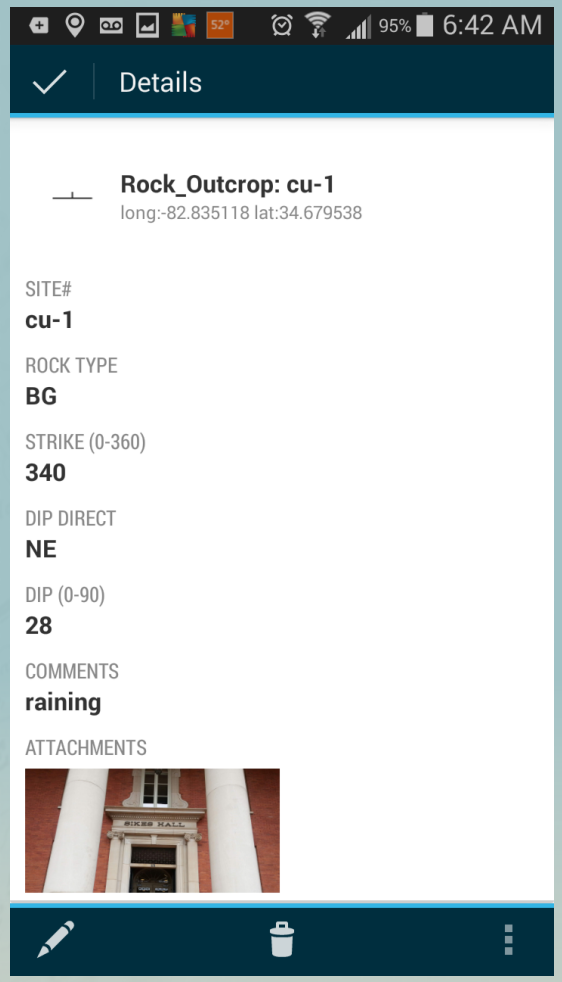
CAVEATS FOR USING COLLECTOR

- 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

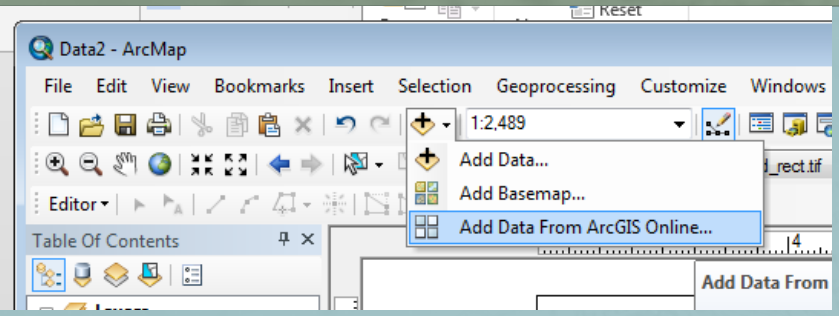
USING COLLECTOR IN FIELD

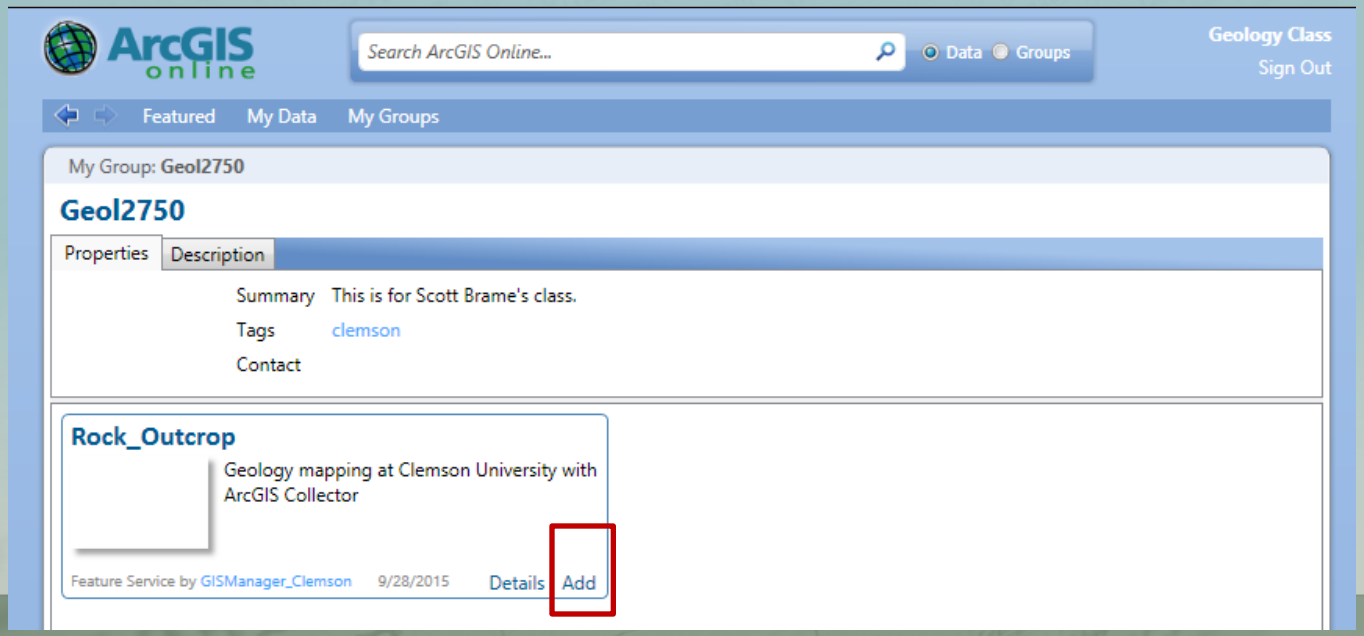




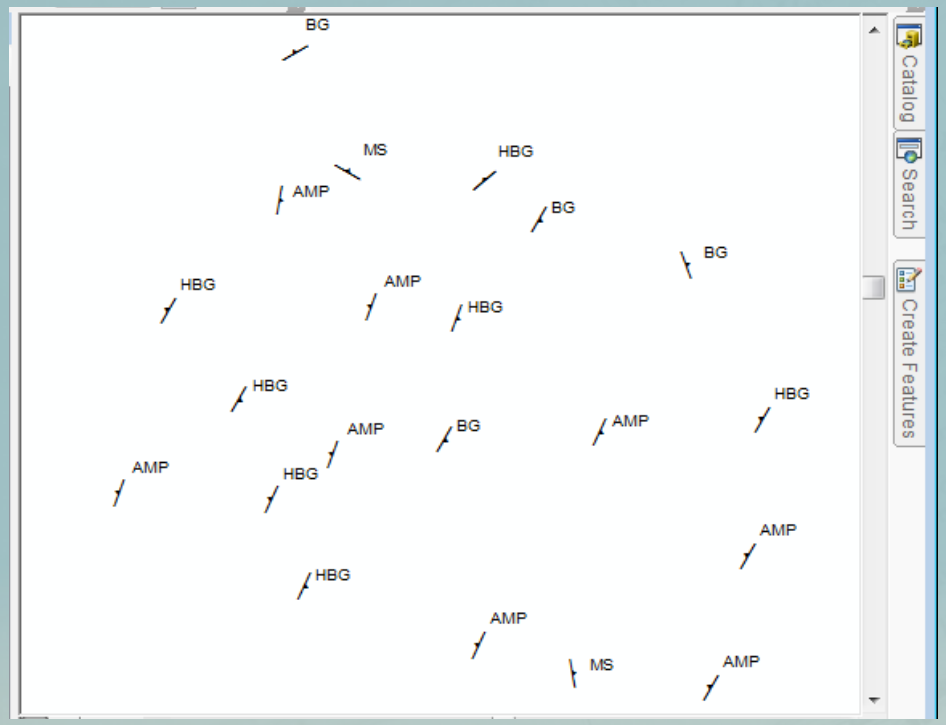


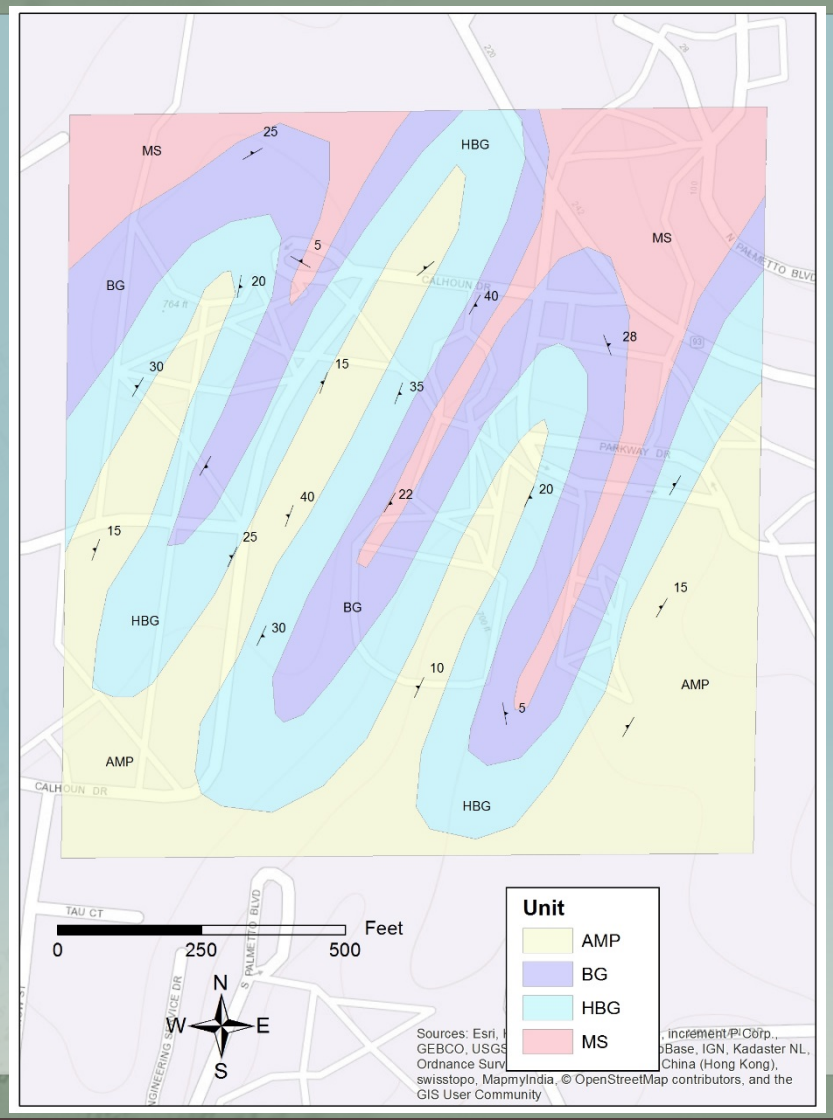
GET DATA DIRECTLY FROM ARCGIS ONLINE





DATA POINTS > GEOLOGIC INTERPRETATION





EVEN MY STUDENTS CAN USE IT

POTENTIAL FOR REAL TIME DATA