Using the Trimble TSC3 Controller

Kelly R. Thorp

Collecting GCP coordinates

1. Run Trimble Access - Press Trimble hard key (Windows symbol), select Trimble Access

2. Log in — Click either "Tap here to log in" or the current logged in person (e.g., kelly.thorp)

   - Login Mode: Offline
   - Select your user name.
     - If you already have a username, select it. . . click next. . . click finish
       * Else type in your user name. . . Click finish
       * Passwords are optional. . . be professional

3. Set up a job - Click General Survey -> Jobs

   - If opening existing job, click "Open job" then select the job
   - If starting a new job, click "New job" then
     - Job name: Give the job a name.
     - Template: Default
     - Coord sys.: Click 'Select from library'
       * System: 'World wide/UTM'
       * Zone: 12 Nonh
       * Datum: WGS 1984 (7P)
       * Project height: 361m
     - Click Store Accept
   - If using the Yuma 2 and the Bluetooth needs connected
     - Turn on the GNSS receiver
     - General Survey -> Instrument -> GNSS Functions Bluetooth
       * Under 'Connect to GNSS Rover' select: R8s, Serial#: Trimble
       * Save/Accept

4. To measure points

- Go to field. Click General Survey -> Measure -> ALARCRTK -> Measure points
- Accept base station.
- Point name: Name the point. (If you put a number at the end, it will auto-increment.)
- Code: Add optional additional info.
- Method: Rapid point
- Antenna height (Uncorr): 2.000m
- Vertical offset: 30.839m Up (This is important to get the Z coordinate correct.)
- Click "Measure" to record a point.
- Go to lab. Connect TSC3 to computer.
- Click General Survey -> Jobs -> Import/Export -> Export fixed format -> Accept -> All points

- Copy the file off the TSC3:
  - "This PC\Trimble Navigation Limited TSC3\\Export"

5. To stake flags at point locations

  - Copy CSV file to the TSC3
    - Save CSV from Excel to help TSC3 recognize points. Do not add header line.
      * Order: Point name, Northing, Easting, Elevation, Code (optional)
      * Connect TSC3 to computer and copy point file to your user directory.
        · "This PC\Trimble Navigation Limited TSC3\"
  - Go to field. Click General Survey -> Stakeout -> ALARCRTK -> Points
  - Remove points from old stakeouts, if they exist.
    - Add -> Select from file -> choose point file.
    - Click 'All' - Click Add
    - Select a point, then select StakeoUt Navigate to the point, and stake flag.