Navigation and Mapping IT Apps

North Florida Prescribed Fire Council
Fall Meeting 2016

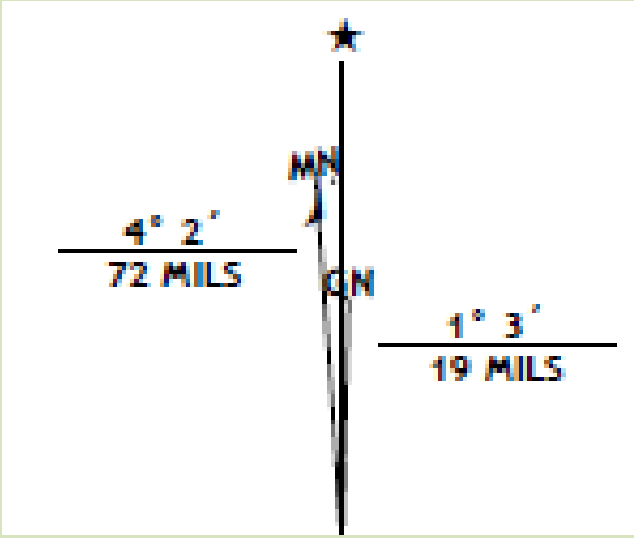
Brendan Mulholland
GIS Specialist
Florida Forest Service
Tallahassee District (D4)

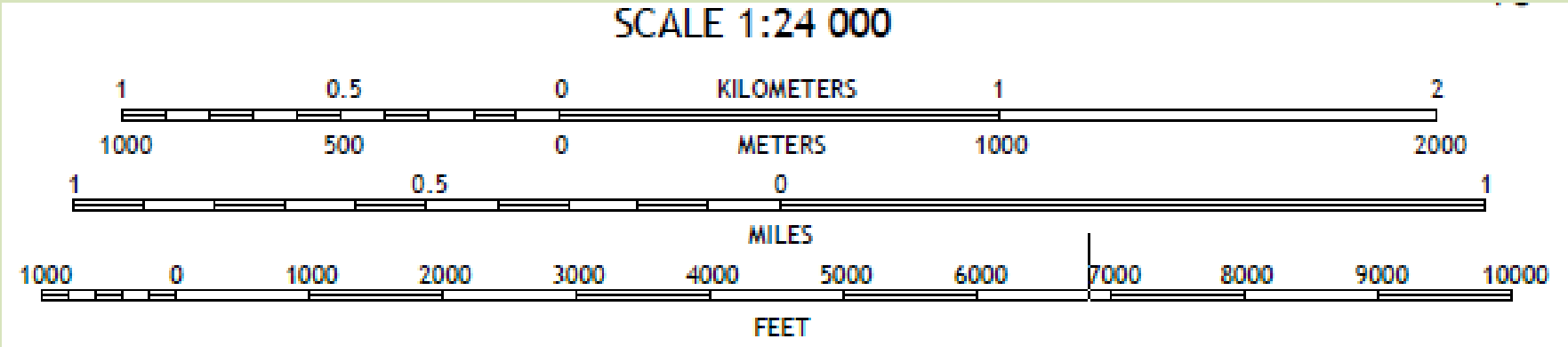
10:15 AM
WED, JUN 18
STOCK EXCHANGE
MARKET SUMMARY
Message
Phone
Calendar
Settings
Music
News
Camera
Search
Options
Help
Cancel
mobile

MICHIGAN
River
Creek

Map Components

- Scale
- North Arrow
- Legend / Symbols
- Title
- Content





GPS

- Global Positioning Systems
- Battery Operated
- Pinpoint Location
- Navigate to Location
- Wide Area Augmentation System (WAAS)
- Record Data – Data Dictionaries

Garmin Basemap:

www.gpsfiledepot.com

Smart Phones

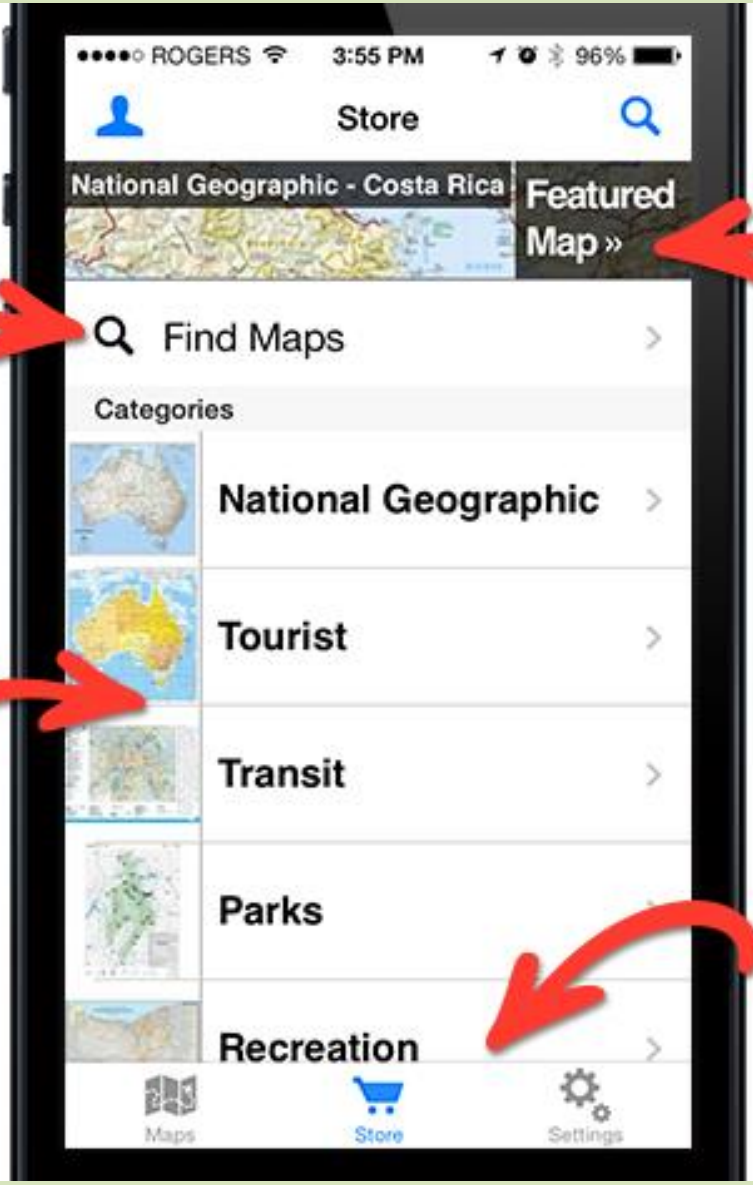
- Included Map Application

- Other Market Applications
  - **Avenza PDF Maps**
  - **Glympse**
  - **ArcGIS Mobile**
  - GPS Fields Area Measure (Android)
  - Measure Map* (Apple)
  - Maps Measure (Android)
  - MotionX GPS* (Apple)
  - Open GPS Tracker (Android)
  - Find My Friends (Apple)

Avenza PDF Maps

“The king of single-purpose maps.” –USA Today

Get maps.



Quickly find maps that are near your location.

Browse and scroll through the list to see more map categories.

Get featured maps and vendors here.

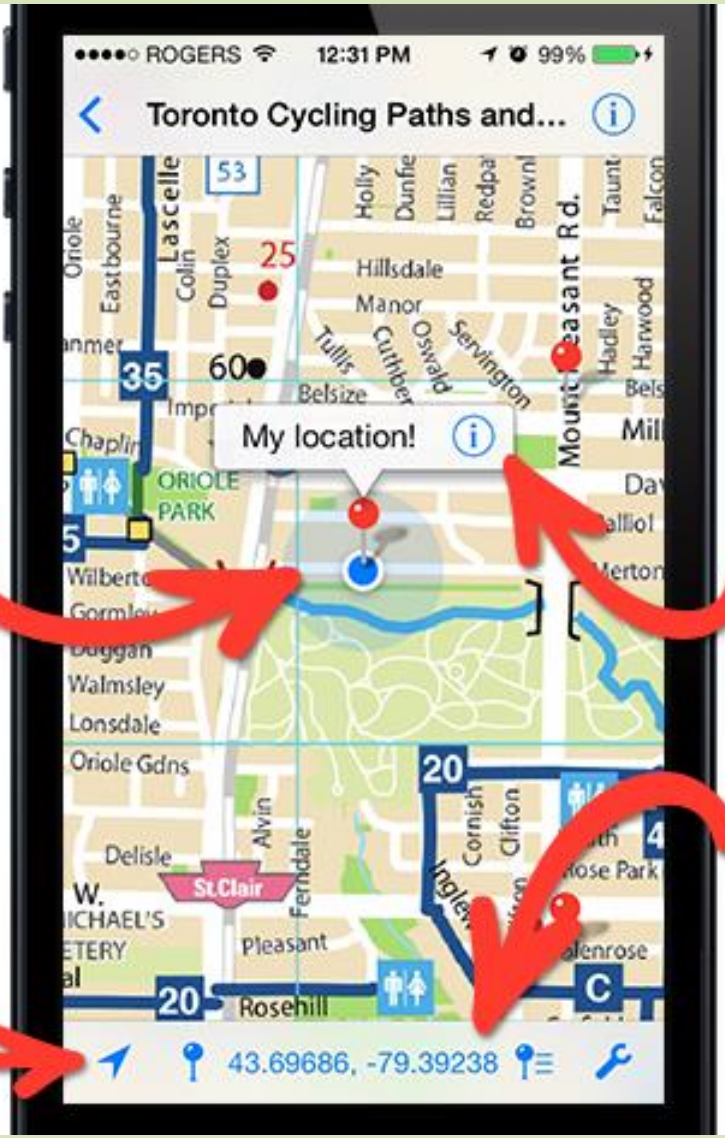
Tap the Store button to access thousands of maps in the Avenza Map Store.

Screen image shown on PDF Maps for iOS

Find yourself.

The blue dot and cross hair shows your current position.

Tap GPS button to view your current location. Tap Placemark button to drop a placemark.



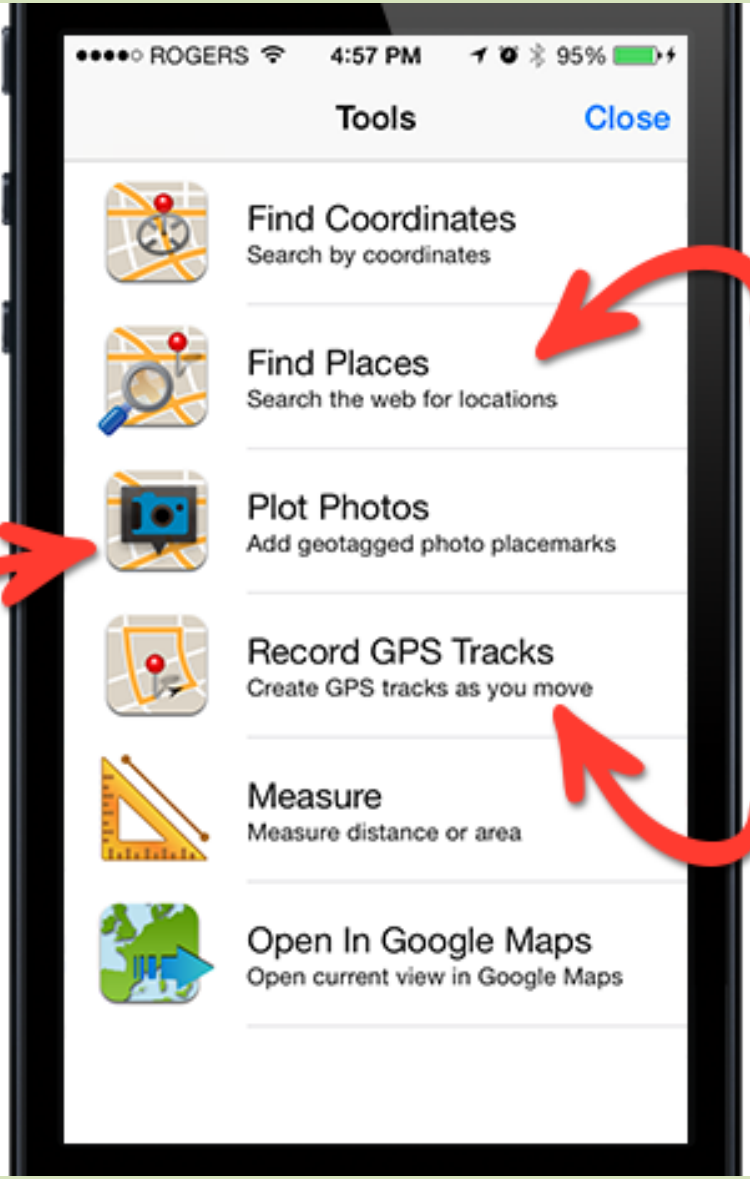
Drop placemarks at your location. Tap to edit attributes.

Your location based on GPS reading. Tap to change the display format.

Screen image shown on PDF Maps for iOS

Use tools.

Tap the Tools button on any map view to access these tools

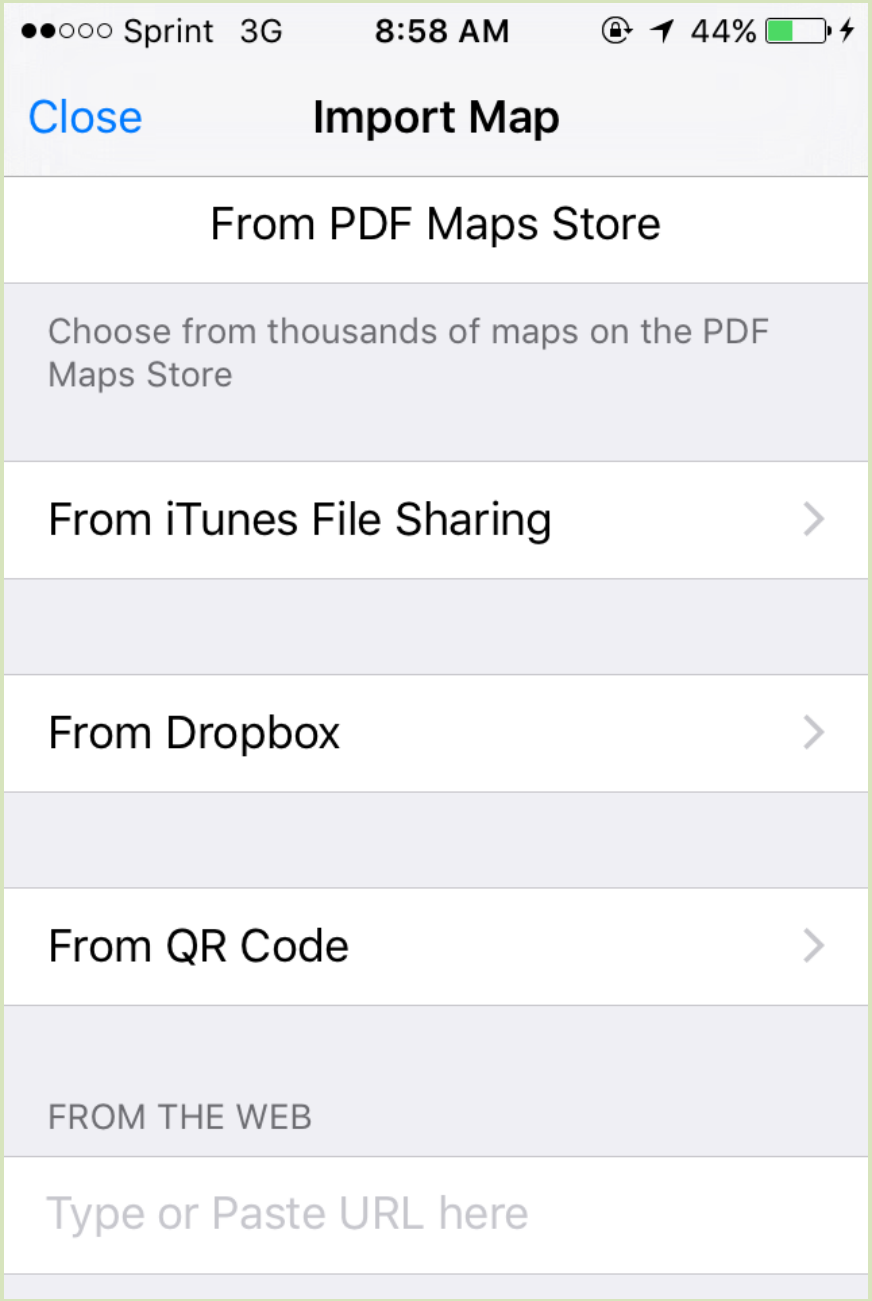


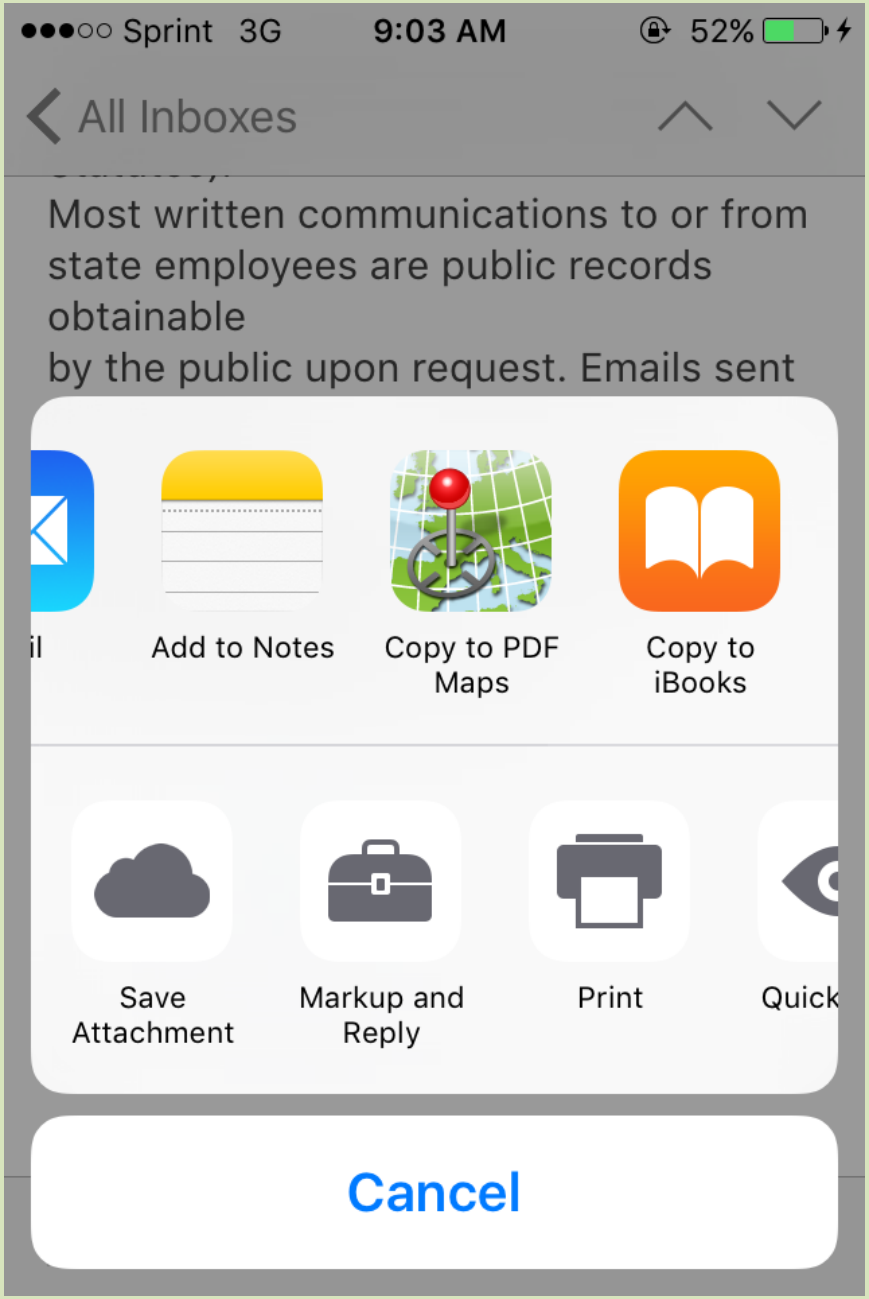
Search for points of interest. Placemarks drop at their location.

Add geotagged photos which automatically get plotted at its location on the map

Record where you're going. Automatically keeps speed, distance and elevation.

Screen image shown on PDF Maps for iOS


●●○○○ Sprint 3G
8:58 AM
44%
Close
Import Map
From PDF Maps Store
Choose from thousands of maps on the PDF Maps Store
From iTunes File Sharing
From Dropbox
From QR Code
FROM THE WEB
Type or Paste URL here


●●●○○ Sprint 3G
9:03 AM
52%
All Inboxes
Most written communications to or from state employees are public records obtainable
by the public upon request. Emails sent
Add to Notes
Copy to PDF Maps
Copy to iBooks
Save Attachment
Markup and Reply
Print
Quick
Cancel

●●○○○ Sprint 3G 8:58 AM 44%

Edit

HighBridge_May2016
7.0 mi ↖

JoeBuddBurn_April2016
5.7 mi ←

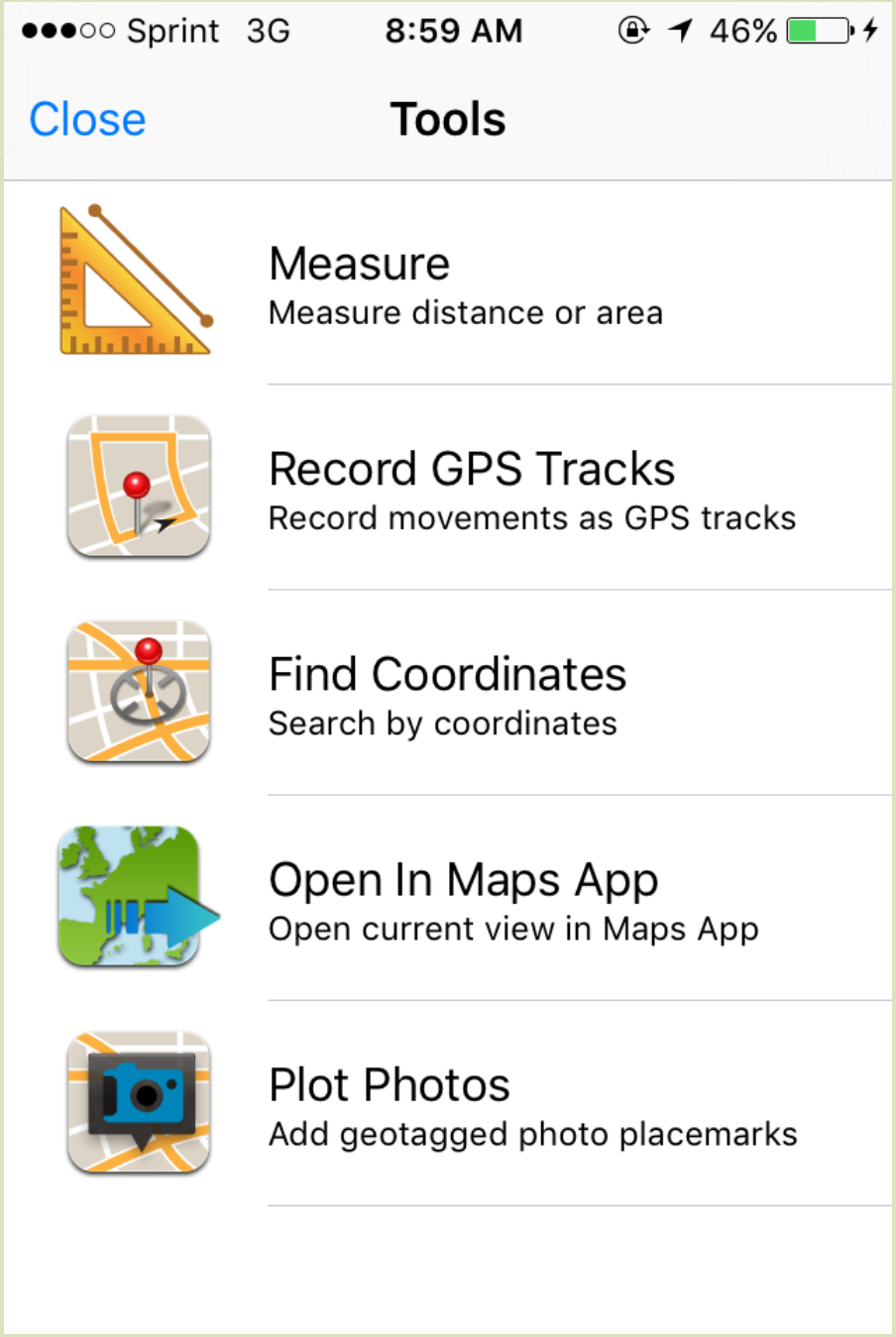
JoeBudd_April2016
5.3 mi ←

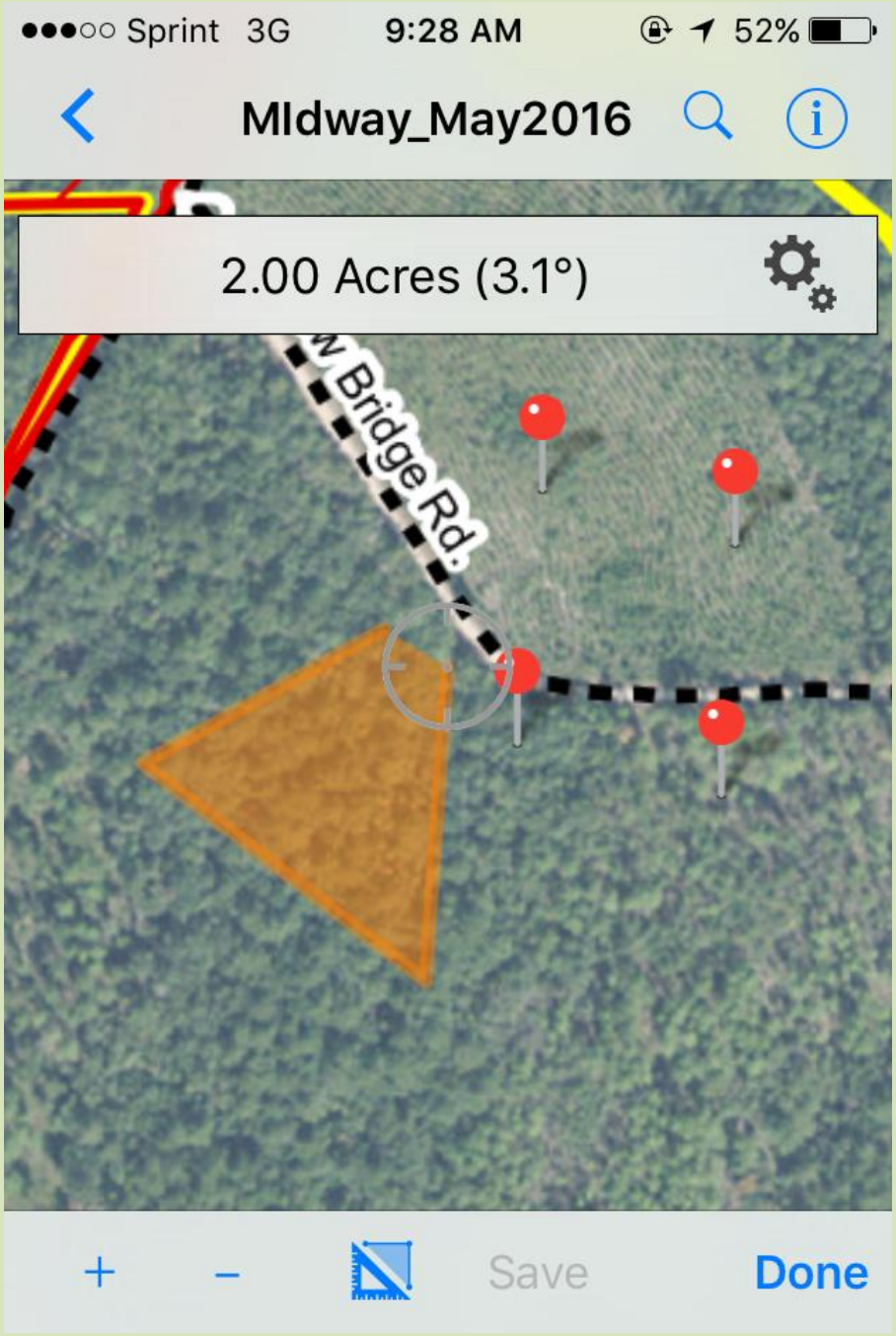
Liberty_STR
7.2 mi ←

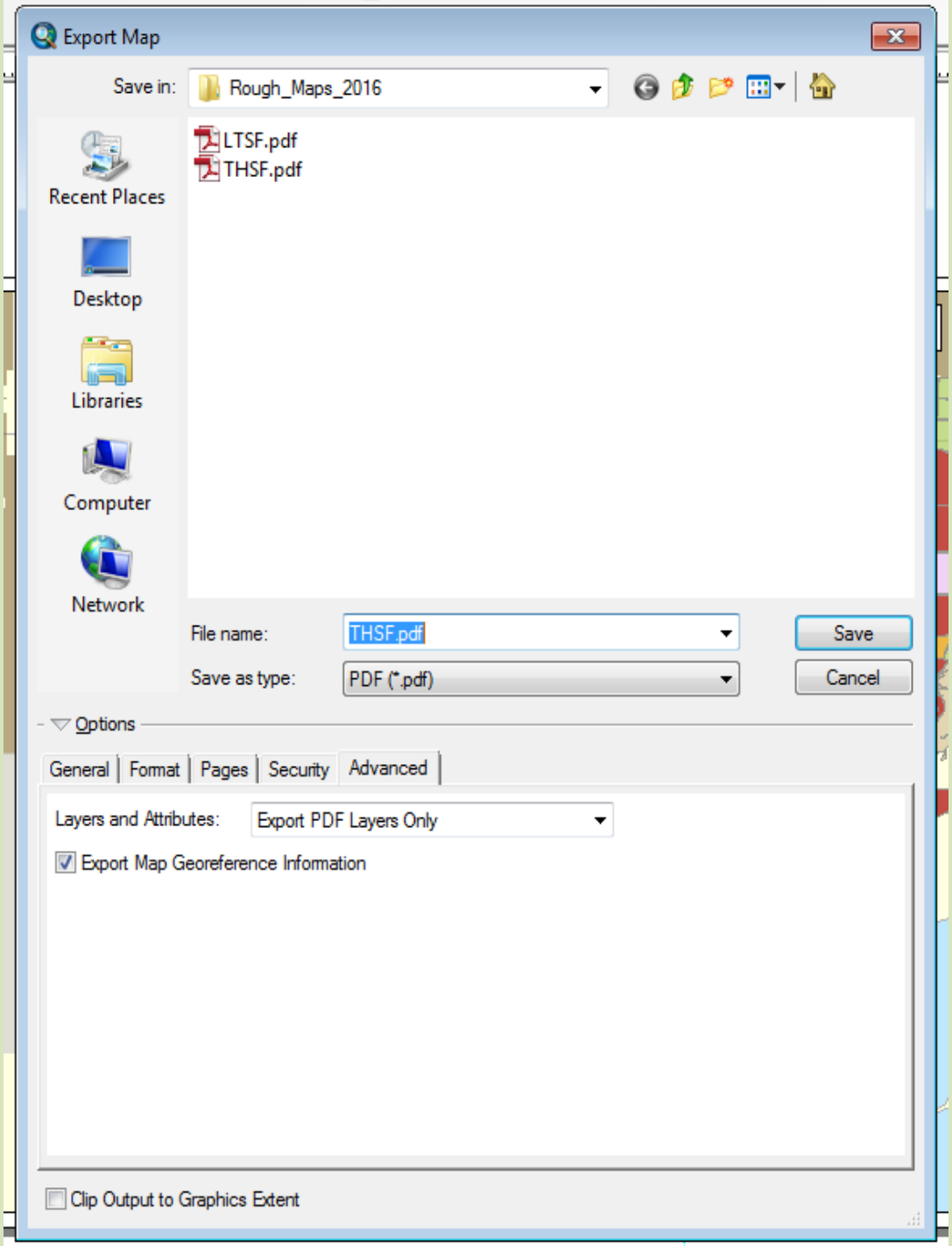
MIdway_May2016
3.8 mi ←

Maps Layers Store Settings

6:48
Arc Dome Wilderness Humboldt...
38.87016, -117.49240
Find By Coordinates
Measure Distance or Area
Open View in Google Maps


Sprint 3G
8:59 AM
46%
Close
Tools
Measure
Measure distance or area
Record GPS Tracks
Record movements as GPS tracks
Find Coordinates
Search by coordinates
Open In Maps App
Open current view in Maps App
Plot Photos
Add geotagged photo placemarks

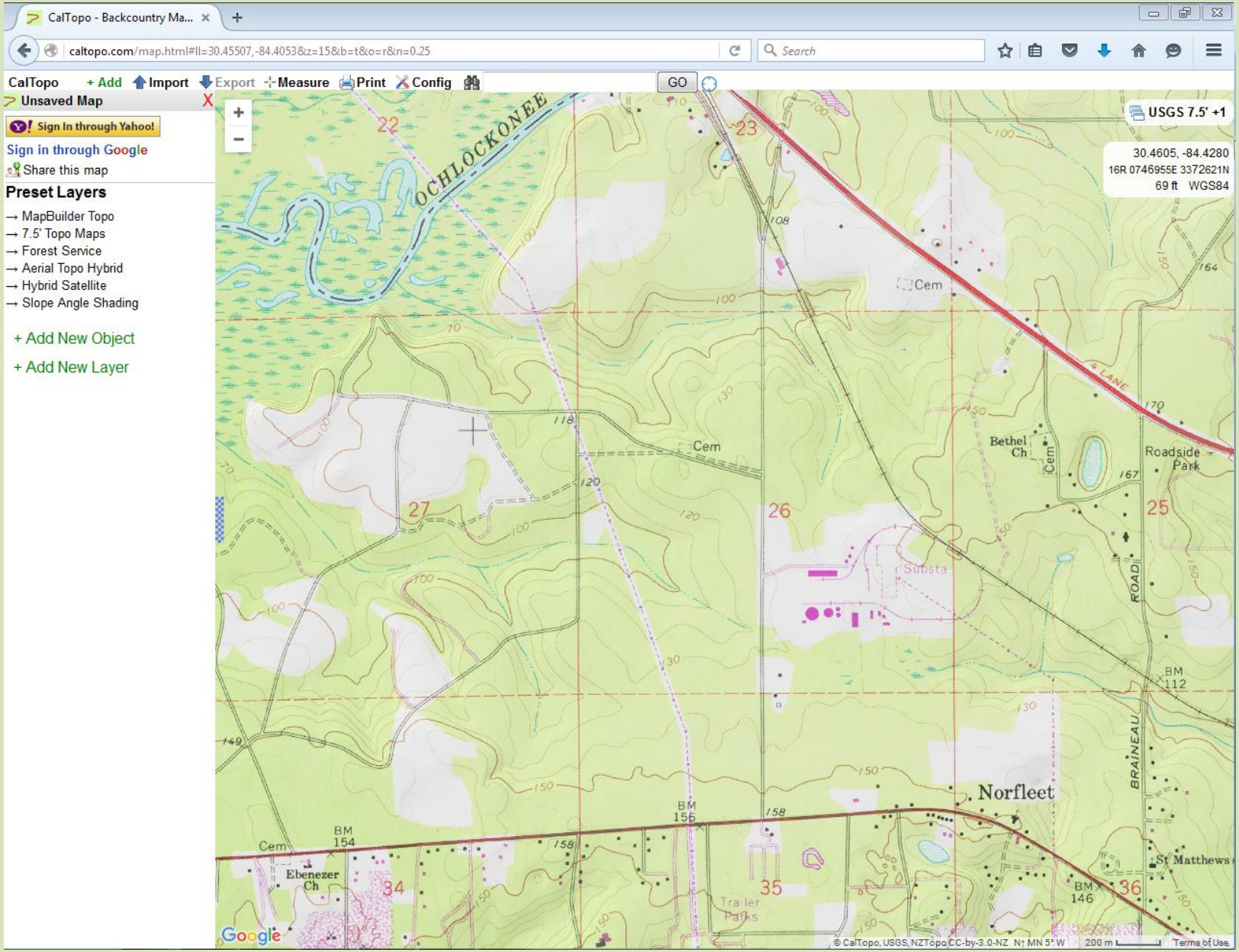

Sprint 3G
9:28 AM
52%
MIdway_May2016
2.00 Acres (3.1°)
W Bridge Rd.
Save
Done

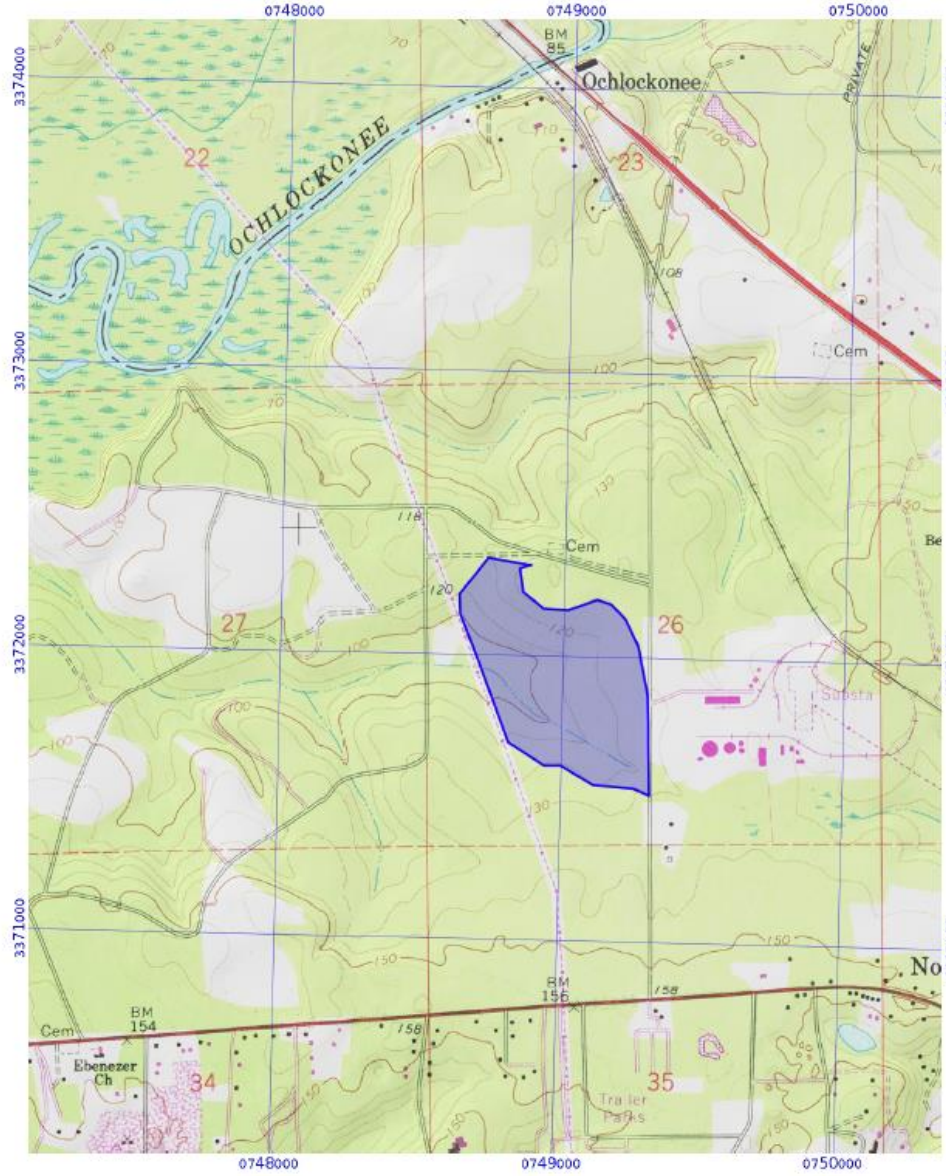

Export Map
Save in:
Rough_Maps_2016
LTSF.pdf
THSF.pdf
Recent Places
Desktop
Libraries
Computer
Network
File name:
THSF.pdf
Save as type:
PDF (*.pdf)
Save
Cancel
Options
General
Format
Pages
Security
Advanced
Layers and Attributes:
Export PDF Layers Only
Export Map Georeference Information
Clip Output to Graphics Extent

“Avenza Maps is free for personal, non commercial use for recreation and general personal navigation.”

https://www.avenzamaps.com/commercial-usage/subscription.html

CalTopo


CalTopo - Backcountry Ma...
caltopo.com/map.html#ll=30.45507,-84.4053&z=15&b=t&o=r&n=0.25
CalTopo
+ Add
Import
Export
Measure
Print
Config
GO
Unsaved Map
Sign In through Yahoo!
Sign in through Google
Share this map
Preset Layers
→ MapBuilder Topo
→ 7.5' Topo Maps
→ Forest Service
→ Aerial Topo Hybrid
→ Hybrid Satellite
→ Slope Angle Shading
+ Add New Object
+ Add New Layer
USGS 7.5' +1
30.4605, -84.4280
16R 0746955E 3372621N
69 ft WGS84
OCHLOCKONEE
Cem
Bethel Ch
Roadside Park
4 LANE
Substa
ROAD
BRAINEAU
BM 112
Norfleet
BM 156
BM 154
Ebenezer Ch
Trailer Parks
St Matthews
BM 146
Google
© CalTopo, USGS, NZTopo CC-by-3.0-NZ
200 m
Terms of Use



Mercator Projection
WGS84
UTM Zone 16R

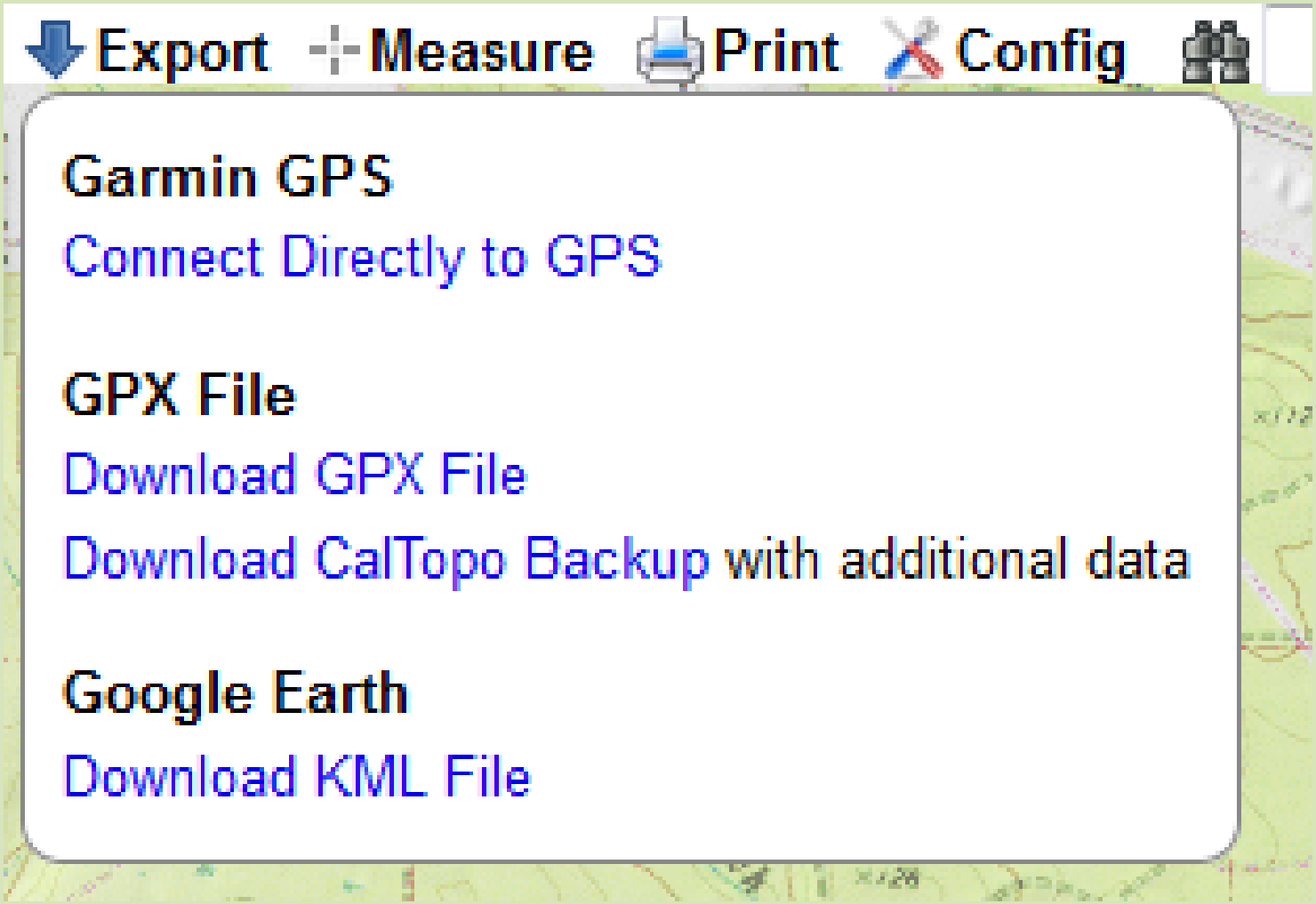
CalTopo.com

0.5 1.0 1.5 2.0km

0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2mi

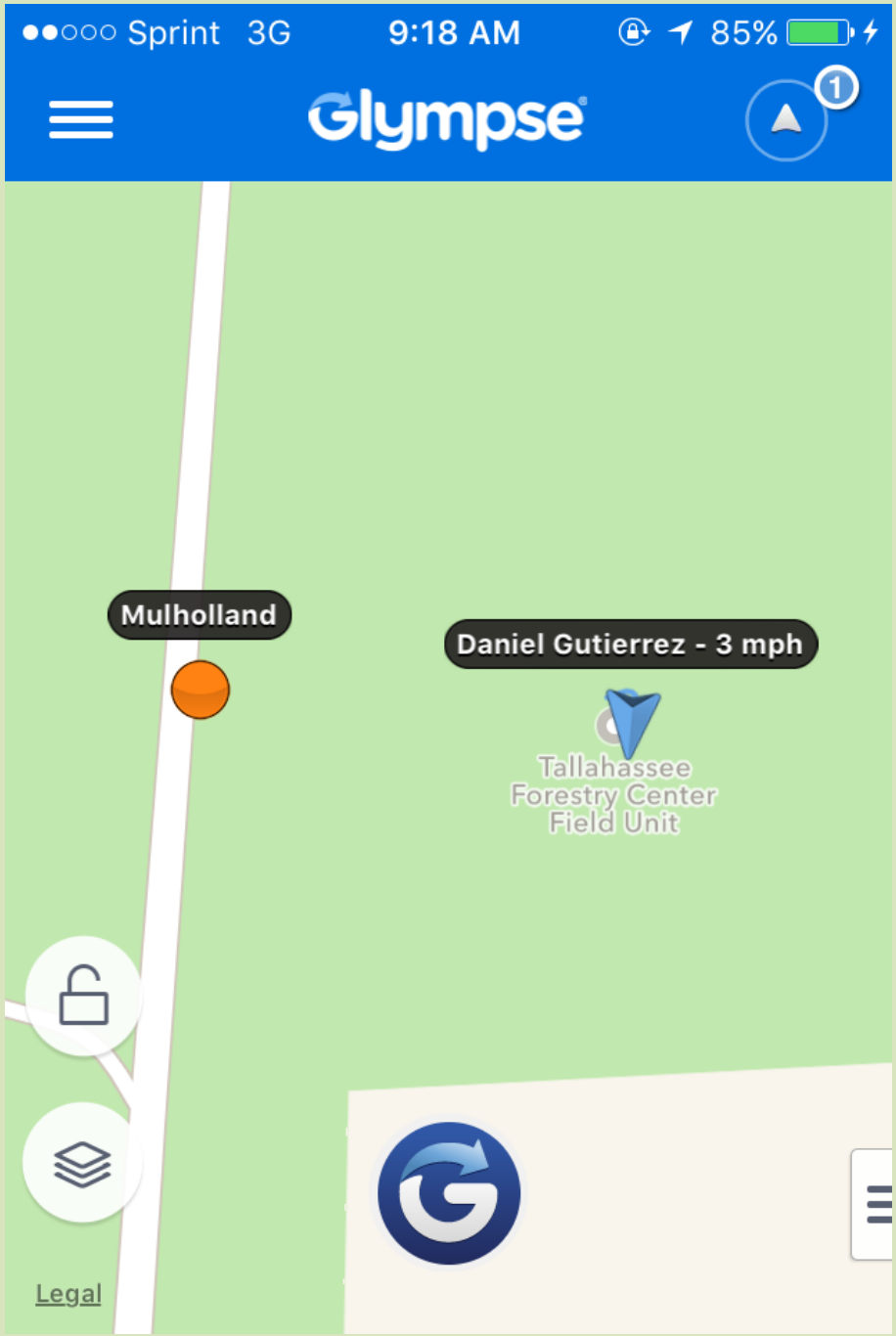
Scale **1:17563** 1 inch = 1464 feet

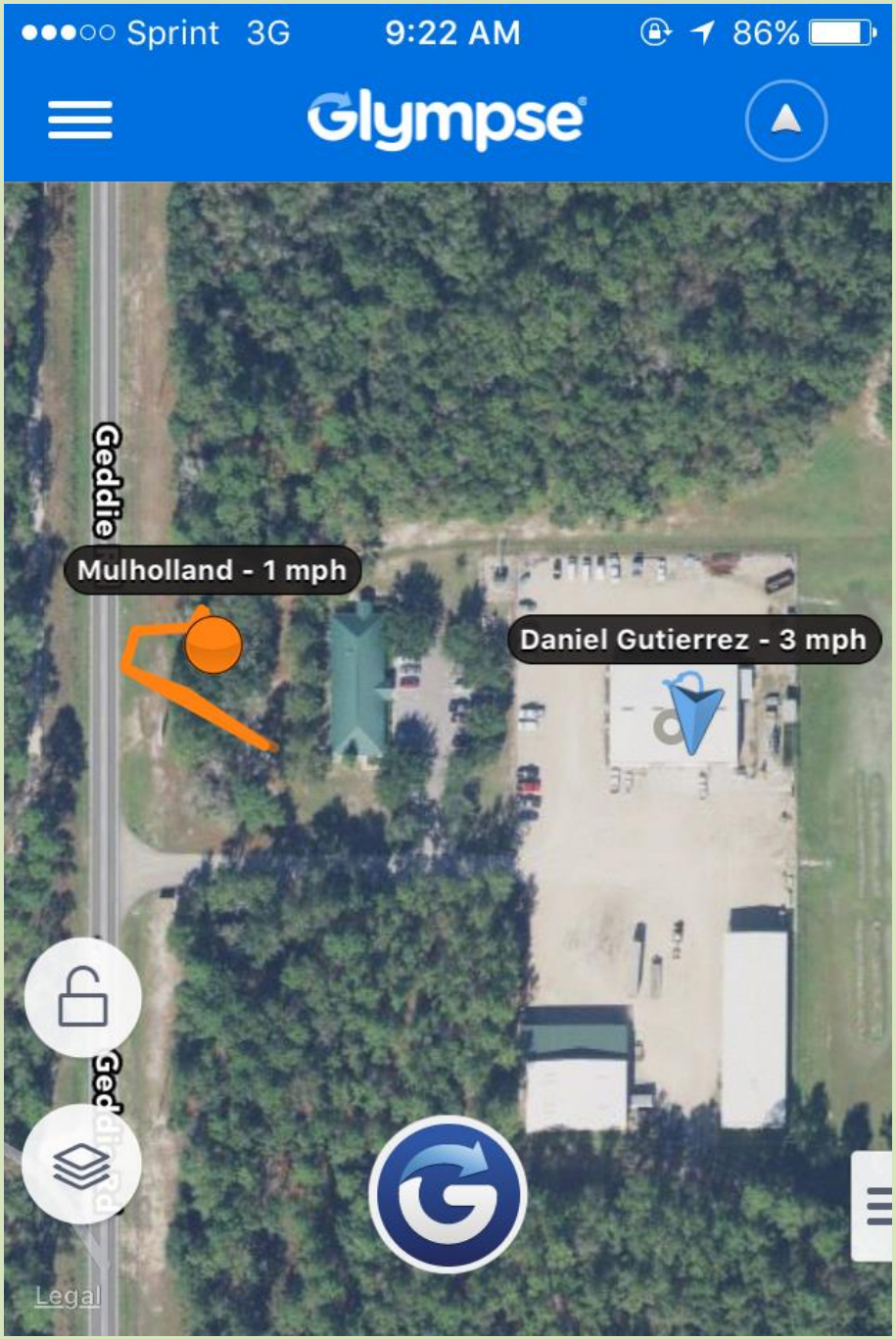
MN -5° N

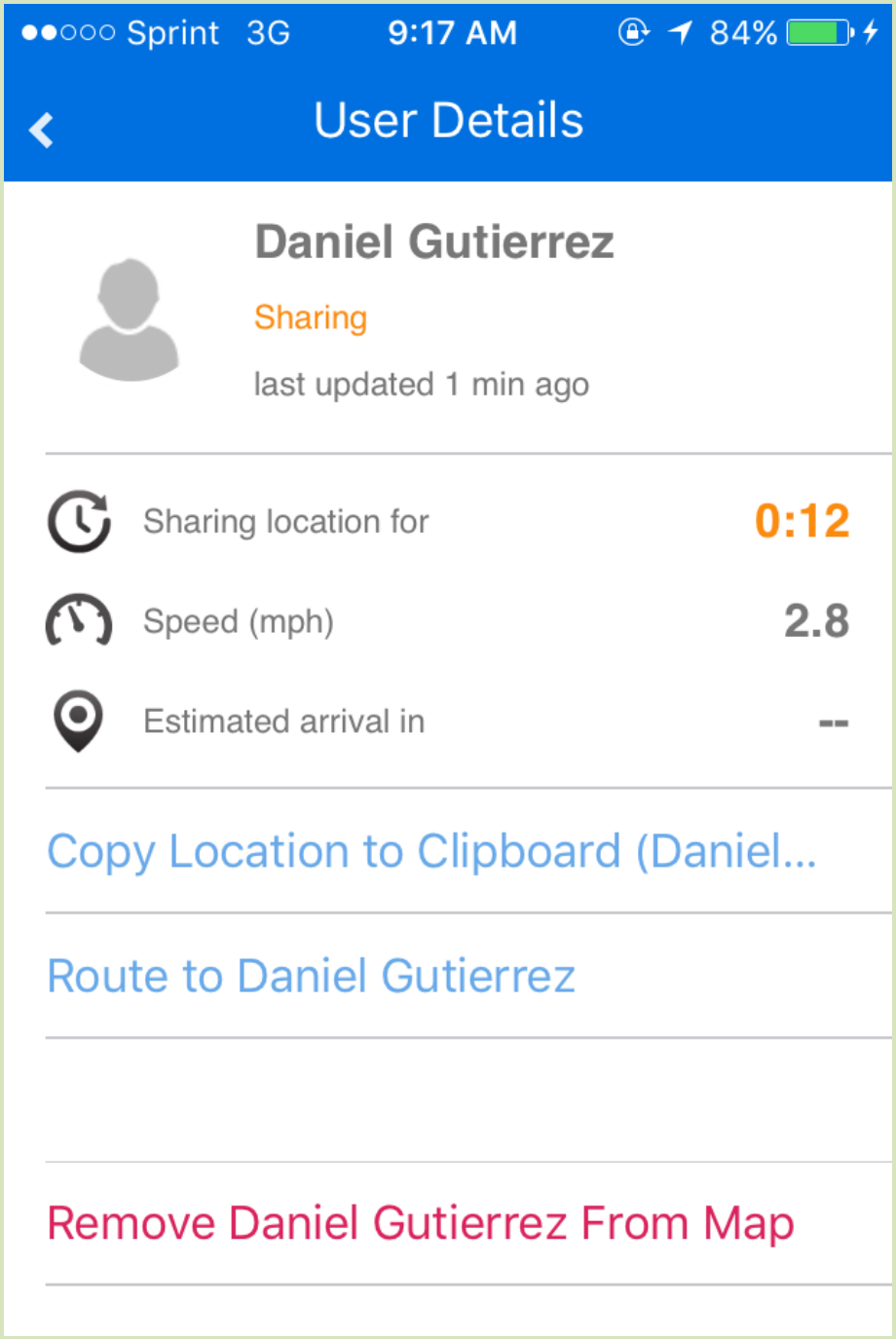

Export
Measure
Print
Config
Garmin GPS
Connect Directly to GPS
GPX File
Download GPX File
Download CalTopo Backup with additional data
Google Earth
Download KML File

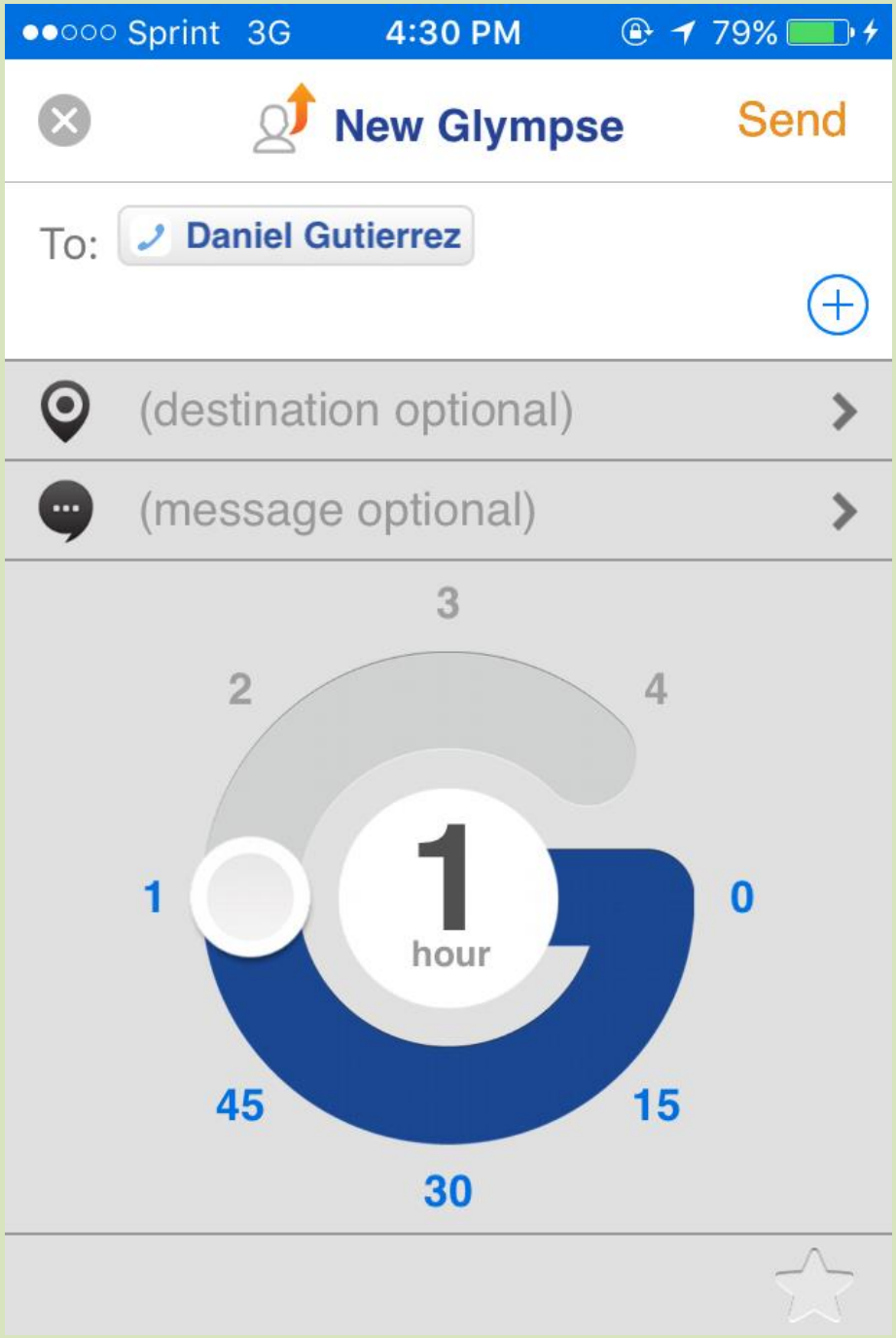
Glympse

Glympse
Me (Silvia)
0.0 mph, 21 hours ago
Sharing for 14:42
"Almost there!"
Space Needle
Estimated arrival in 00:06
ROUTE TO SPACE NEEDLE
Glympse
Kirkland
Yarrow Point
Hunts Point
Clyde Hill
Medina
Bellevue
Java Junction
Luke - 63 mph
Mercer Island
Yarrow Point
Clyde Hill
Medina
Roanoke
Mercer Island


Sprint 3G
9:18 AM
85%
Glympse
1
Mulholland
Daniel Gutierrez - 3 mph
Tallahassee
Forestry Center
Field Unit
Legal


Sprint 3G
9:22 AM
86%
Glympse
Geddie
Mulholland - 1 mph
Daniel Gutierrez - 3 mph
Legal


Sprint 3G 9:17 AM 84%
User Details
Daniel Gutierrez
Sharing
last updated 1 min ago
Sharing location for 0:12
Speed (mph) 2.8
Estimated arrival in --
Copy Location to Clipboard (Daniel...
Route to Daniel Gutierrez
Remove Daniel Gutierrez From Map

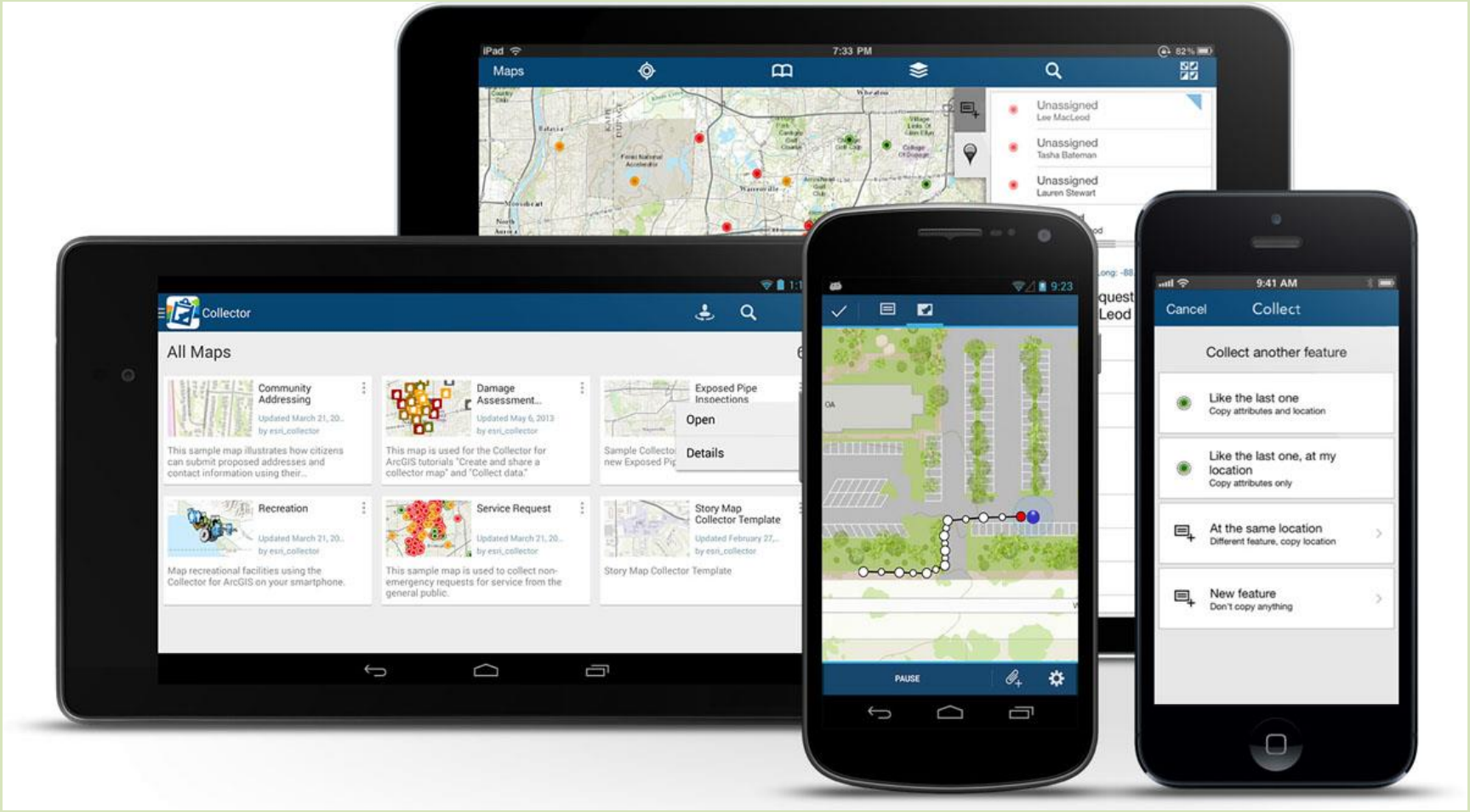

Sprint 3G 4:30 PM 79%
New Glympse
Send
To: Daniel Gutierrez
(destination optional)
(message optional)
3
2
4
1
0
45
15
30
1
hour

ArcGIS Mobile

- Explorer for ArcGIS
- Collector for ArcGIS
- Survey123 for ArcGIS

Explorer

Collector


iPad
7:33 PM
Maps
Unassigned
Lee MacLeod
Unassigned
Tasha Bateman
Unassigned
Lauren Stewart
Collector
All Maps
Community Addressing
Updated March 21, 20..
by esri_collector
This sample map illustrates how citizens can submit proposed addresses and contact information using their...
Damage Assessment...
Updated May 6, 2013
by esri_collector
This map is used for the Collector for ArcGIS tutorials "Create and share a collector map" and "Collect data."
Exposed Pipe Insoections
Open
Details
Recreation
Updated March 21, 20..
by esri_collector
Map recreational facilities using the Collector for ArcGIS on your smartphone.
Service Request
Updated March 21, 20..
by esri_collector
This sample map is used to collect non-emergency requests for service from the general public.
Story Map Collector Template
Updated February 27,..
by esri_collector
Story Map Collector Template
9:23
PAUSE
9:41 AM
Cancel
Collect
Collect another feature
Like the last one
Copy attributes and location
Like the last one, at my location
Copy attributes only
At the same location
Different feature, copy location
New feature
Don't copy anything

Survey123

Survey123
for ArcGIS
Smarter Forms, Smarter Field Work
Asset Inspection
Inspection date:
Wednesday, November 04, 2015
Asset ID:
Scan tag if available
Photo
Action required?
Yes
No
Asset location:
Lat 34°3'N Lon 117°12'W Alt 0.0m

Other Applications

- **Incident Related**
  - Wildland Fire Toolkit* (Apple)
  - Wildfire Ops
  - 911 Toolkit* (Apple)
  - Theodolite* (Apple)
- **Weather**
  - Fire Weather Calculator
  - Dark Sky* (Purchase on Apple, free on Android)
  - Wunderground
  - MyRadar Weather Radar
  - Lightning Finder*
  - WindNinja-Mobile

Thank You!

Brendan.Mulholland@FreshFromFlorida.com