CalTopo
Desktop
Offline

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ESCAPE 2023 CALTOPO TRAINING

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How many are seeing this if the first time?

Bob Howell

- 47 years experience IT professional
- 12 years experience in Structure & Wildland Fire, EMS, Incident Management (Mayhill VFD)
- 7 years experience with NM SAR
- National Ski Patrol Alumni – outdoor emergency care and sled certified
- NM SAR Section Chief plans/ops/logs certified tracker
- NM SAR Ordering Manager
- NMSARC Board Member, Training Committee, Escape 2023 Organizing Committee

Matt Griffin

- IMT Specialist
- 2 Years Gallatin County Sheriff Search and Rescue
- 3 Years NMSAR
- FC-T D-1&5
- Communications and Computer SAR Specialist
- CalTopo SOP POC
- Instructor at ESCAPE

Agenda

- Introduction
- Subscription Information
- Installing CalTopo Desktop
- Downloading Layers

Subscriptions

Caltopo is subscription-based service accessed initially online to establish account and download maps.
There are three types of subscriptions individual, team, first responder.

The Desktop subscription is required for using CalTopo offline on PC or Mac computer

First Responder vs Team Subscription

FIRST RESPONDER 🔗

- Free subscription for first responders
- Private maps
- Improved printing
- CalTopo map layers in Google Earth
- Import Geospatial PDF map sheets
- MapBuilder Topo offline downloads in the app
  50% off Pro or Desktop subscriptions

TEAM 🔗

- NMSARC pays $1000/yr for 100 users supported by your donations
- Mission Map Central Storage
- Archive for all prior missions
- Reference Data shared statewide
- Mutual Aid Incidents only for large SAR Missions
- Live Team Tracking via mobile app, In Reach, APR... e
- SMS Locator (SARLOC)
- Sub-Teams
- Flexible Permissions with the ability to share reference and archive data

If you sign up for a First Responder subscription you qualify for 50% off the Desktop subscription or $50/year.
As a member of a Team account your automatically receive the Desktop version uplift.

Installing CalTopo Desktop

Desktop Installation - 1

Your Data

Enter coordinates or a location name

🖥 Settings   ⊗ Close   **Your Data**

Your Data   ✕

| Your Maps | Bookmarks | Your PDFs | Your Tracks | Your Layers | Map Sheets | Your Icons | Desktop Access |

Offline Access

CalTopo Desktop gives you most of CalTopo's functionality, offline and away from the internet on a PC or Mac. Some layers and functionality are internet based and unavailable (such as Google layers).

Get Started

- Download CalTopo desktop installer
- Offline data is downloaded directly within CalTopo Desktop.
- For detailed instructions, see the user guide

Recommended System Requirements
- Processor: 64-bit Intel i5 or i7, Apple M1 (32-bit processors are not supported)
- RAM: 4GB minimum, 8+GB recommended
- Hard Disk: Recommended size varies by usage, however SSD highly recommended
- App install: aproximately 200MB
- User data: Depends on usage, typically 50-200MB
- Offline tiles: Varies based upon coverage and layers

- For example using the state of Colorado:
- MapBuilder Topo (max resolution): aproximately 75GB
- Global Imagery: aproximately 140GB
- MapBuilder Topo + Global Imagery: aproximately 170GB (some data is shared between layers)

1. Login to online CalTopo
2. Click Your Data
3. Click Download CalTopo desktop

Desktop Installation - 2

CalTopo - Download Offline App

Latest Stable Version (4237)

Important Notice: Beginning with version 4161, CalTopo Desktop uses a new installer that includes a bundled Java runtime. User data (topo.properties, downloaded tiles, local maps, etc) are now stored in a CalTopo folder in your home directory. If you are upgrading from a previous version of CalTopo Desktop you will need to move your existing files to this new location.

Important Notice: Beginning with version 4154, CalTopo Desktop uses a new database engine, and will not read map data saved on versions 4153 and below. Before upgrading, you backup your maps by either exporting them as GeoJSON files, or syncing CalTopo Desktop to CalTopo.com, and then uploading your maps to CalTopo.com.
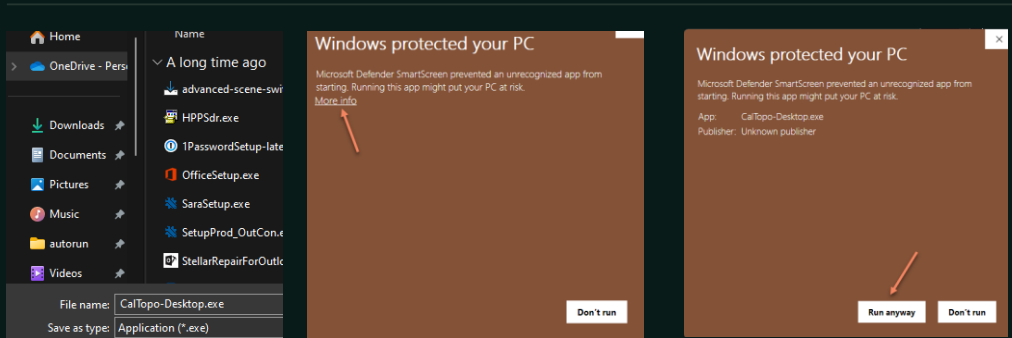
Windows installer   94 MB   March 15, 2023
MacOS installer   90 MB   March 15, 2023
jar only   45 MB   March 15, 2023
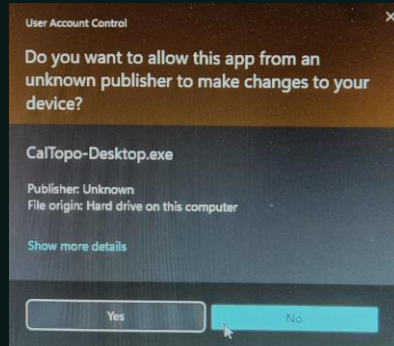
Click either Windows or MacOS installer

Previous Stable JARs (just in case)

4236	45 MB	March 8, 2023
4234	45 MB	February 23, 2023
4233	45 MB	February 16, 2023
4232	45 MB	November 30, 2022

Desktop Installation - 3

Desktop Installation - 4

Desktop Installation - 5

CALTOPO VIRTUAL TRAINING

Start CalTopo Desktop

Allow Windows Firewall Access

REMEMBER: Always leave the caltopo-desktop
Command line window open, it's ok to minimize.

Run CalTopo Desktop

Open browser: localhost:8080
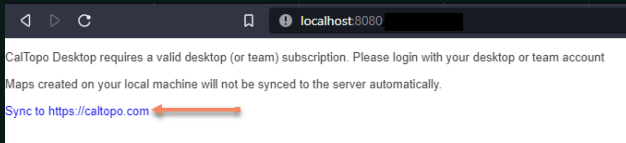
1. Open browser window to localhost:8080
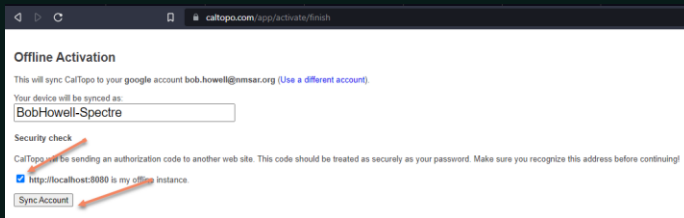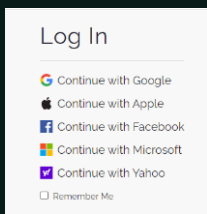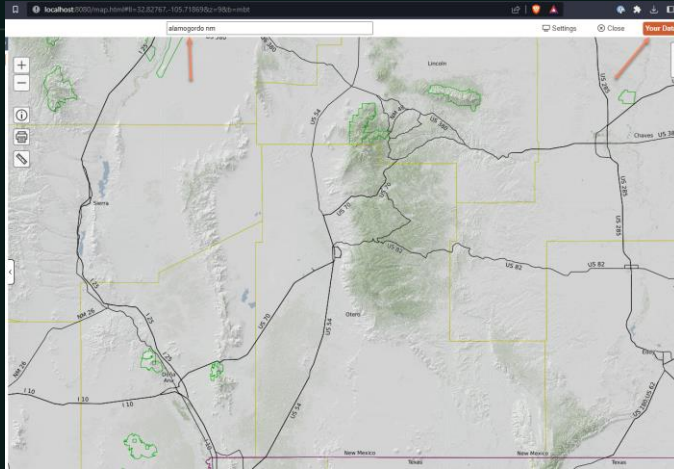2. Click Sync to https://caltopo.com
3. Login with team or desktop account
4. Click security check box
5. Click Sync Account button

localhost:8080

CalTopo Desktop requires a valid desktop (or team) subscription. Please login with your desktop or team account

Maps created on your local machine will not be synced to the server automatically.

Sync to https://caltopo.com

Log In

G Continue with Google
  Continue with Apple
f Continue with Facebook
  Continue with Microsoft
y Continue with Yahoo
☐ Remember Me

caltopo.com/app/activate/finish

Offline Activation

This will sync CalTopo to your **google** account **bob.howell@nmsar.org** (Use a different account).

Your device will be synced as:

BobHowell-Spectre

Security check

CalTopo will be sending an authorization code to another web site. This code should be treated as securely as your password. Make sure you recognize this address before continuing!

☑ http://localhost:8080 is my offline instance.
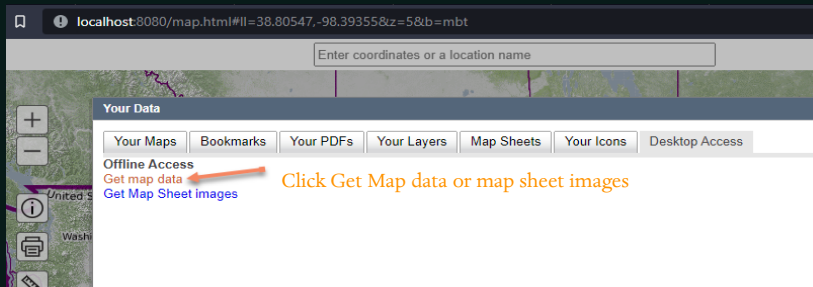
Sync Account

Downloading Layers
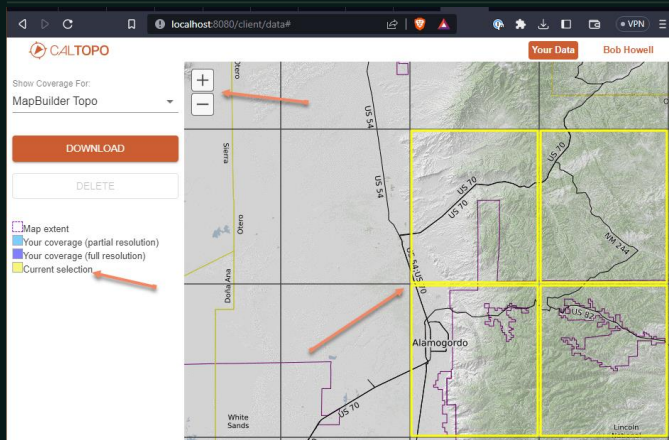
Position Map to Area for Downloads

1. Position map near area you wish to download
2. Click Your Data
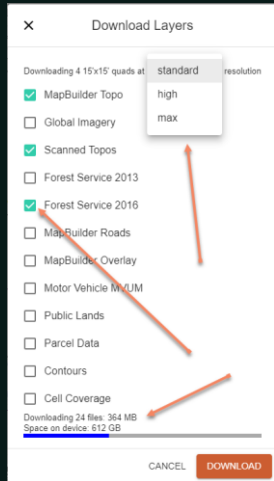
Get Map Data

Open browser: localhost:8080

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Select Tiles to Download

1. Select each tile for the area to be downloaded. Use shift-click or ctrl-click. Selected tile all show yellow border shading.
2. Click Download

Tiles can also be removed by selecting and clicking DELETE. The DELETE option will remove ALL map layers from the selected area.
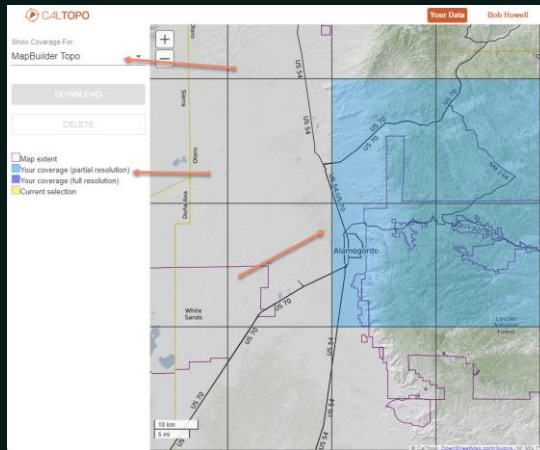
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Select Map Layers and Resolution

1. Select resolution for maps layers
2. Select maps to download
3. Check available disk space
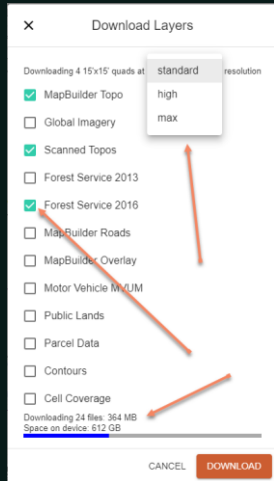4. Click DOWNLOAD

CALTOPO VIRTUAL TRAINING
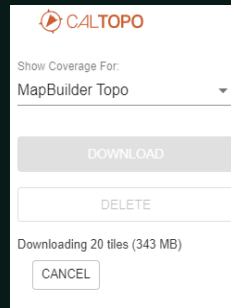
Check Map Layers

1. Use dropdown to inspect tiles for each layer
2. If needed, select additional tiles and repeat
3. Note colors show resolution of tiles
4. No colors = no offline map layer
5. Be sure to test with your internet disconnected or turn on airplane mode BEFORE going to a mission.

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Select Map Layers and Resolution

1. Select resolution for maps layers
2. Select maps to download
3. Check available disk space
4. Click DOWNLOAD
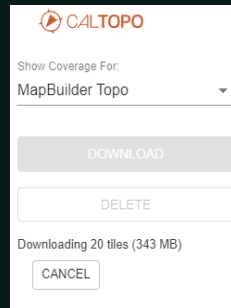
Change location of Map Tiles

1. Edit your topo.properties file.
2. Add the code sarsoft.map.localTileStore=/some/other/path/tiles where you replace everything after the = sign with the path on your computer to find the tiles.
   Macbook: sarsoft.map.localTileStore=/some/other/path/tiles
   Windows requires that you escape
   the\: sarsoft.map.localTileStore=\\some\\other\\path\\tiles or
   use sarsoft.map.localTileStore=/some/other/path/tiles

Because map data files can be quite large, some users prefer to store the files on an external hard drive. To do this, you will need to edit your topo.properties file. Add the code sarsoft.map.localTileStore=/some/other/path/tiles where you replace everything after the = sign with the path on your computer to find the tiles.
Macbook: sarsoft.map.localTileStore=/some/other/path/tiles
Windows requires that you escape the
\: sarsoft.map.localTileStore=\\some\\other\\path\\tiles or
use sarsoft.map.localTileStore=/some/other/path/tiles

Thank you

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https://nmsarc.org

ESCAPE 2023