



ICS & CALTOPO APPLICATIONS & EXAMPLES

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W6TST

AGENDA

- What do amateur radio operators do during emergencies and events?
- Record Keeping – ICS 214
- Cal Topo – App
- 2 Scenarios: Downtown Flood / Search and Rescue, Sea Otter Classic
- CalTopo – Versions & APRS

WHAT DO HAM RADIO OPERATORS DO DURING EMERGENCIES & EVENTS?

- Communicate and Record Information
 - Before the event – identify area of concern, plan and install a repeater and program radios.
 - During the event – Send and receive data and log it
 - After the event – Gather the records and turn them in

LOGGING

- ICS 214 is your friend – if not available use an ICS-001 (Blank sheet of paper)
 - China markers and a white car hood works! Especially now that we have camera phones!
 - Log FACTS. Not opinion, guesses or personal thoughts
 - Use the group's assets if possible
 - Logs and notes may be used as evidence and computers, tablets, etc may be confiscated as evidence and might be a long time before you see it again, if ever.

CALTOPO APP

- Apple or Android
- Connect to your account and access information
- Can be used to record a track without the internet

16:20

79

ICS CalTopo

Show Details

Close Map

Your Maps

Demo Maps

San Benito County RACES M...

Tracks

Scan QR Code

Configuration

Download Layers

Map Sheets

Display Options

Settings

Account

Help

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ICS CalTopo

36.85099, -121.40148
10S 0642512E 4079534N
288 ft WGS84

mapbox

100 m
500 ft

109°

16:20

79

Map Layers

Base Layers

Global Imagery

Shaded Relief @ 25 %

Normal

+ Stack Base Layer

Map Sheets

+ Stack Map Sheet

Map Overlays

Contours

MapBuilder Overlay

Slope Angle Shading

Geology

Public Lands

Parcel Data

Structures

Motor Vehicle MVUM

Recreation

Fire History

Fire Activity

Sun Exposure

Cell Coverage

Custom Layers

LZ Terrain

Forecasts

Weather Shading

Wind Plot

SCENARIO #1 – FLOOD DOWNTOWN

- ICP
- Download Tracks
- APRS
- App Tracker
- SAR – LKP, PLS, Clue, POD

ICS-214: INCIDENT LOG

Incident Communications Log

Start Date 03/14/2023	End Date 03/14/2023	Incident Number 45	Incident Name Downtown Flood
Incident Commander T. Corral	Incident Dispatcher(s) H. Takeuchi, S. Steiner, G. Hunt		Location Hollister – Veteran Hall

Time

Action or Message Summary

10:31 Arrived on scene

10:40 Command post up and operational – initial staffing – N6HKT, KJ6SAS, N6GWH

10:50 SAR 81, SAR 82, SAR 83, SAR 84, SAR 85 start making walking patrols of downtown

11:00 SAR 81 – Checking in traveled south along San Benito – currently in front of Running Rooster at San Benito and South St.

11:05 SAR 82 – Reporting circled the block and back at command post

11:11 SAR 83 – Traveling north along San Benito Street

SCENARIO #2 – SEA OTTER

- ICP
- Load Track
- Repeater
- First Aid Post

CALTOPO – STANDARD VS. DESKTOP

- Standard uses Internet
- Desktop
 - Application on the computer acts like a server on the internet
 - Process APRS and other local signals w/o internet

APRS

- Internet Version
 - Desktop Version – No internet required (Advanced topic)
 - Connect computer with a radio with digital audio output
 - C:/users/<user>/CalTopo/topo.properties
 - sarsoft.location.aprs.local.enabled=true
 - sarsoft.location.serial.COM5=9600,8,1,0
 - log4j.logger.aprsengine.name=org.sarsoft.location.service.APRSLocalEngine
 - log4j.logger.aprsengine.level=info
 - log4j.logger.serialthread.name=org.sarsoft.location.service.APRSSerialThread
 - log4j.logger.serialthread.level=debug
- Use a terminal program to monitor the COM port if you'd like and/or server console



THANK YOU!

<https://sbcara.org/forum>