SAR TECH Jim Warren

Yellowstone National Park
Search and Rescue

Hello, My Name is Jim

Branch Chief of Emergency Services Yellowstone National Park

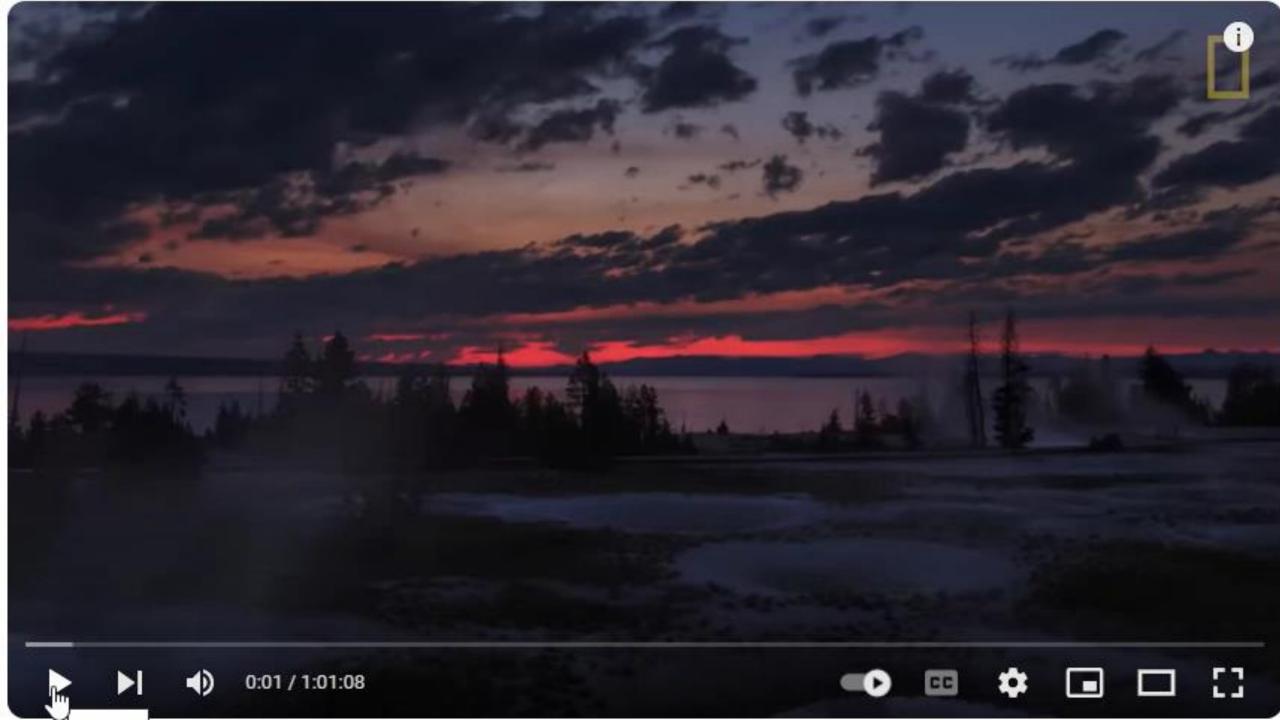


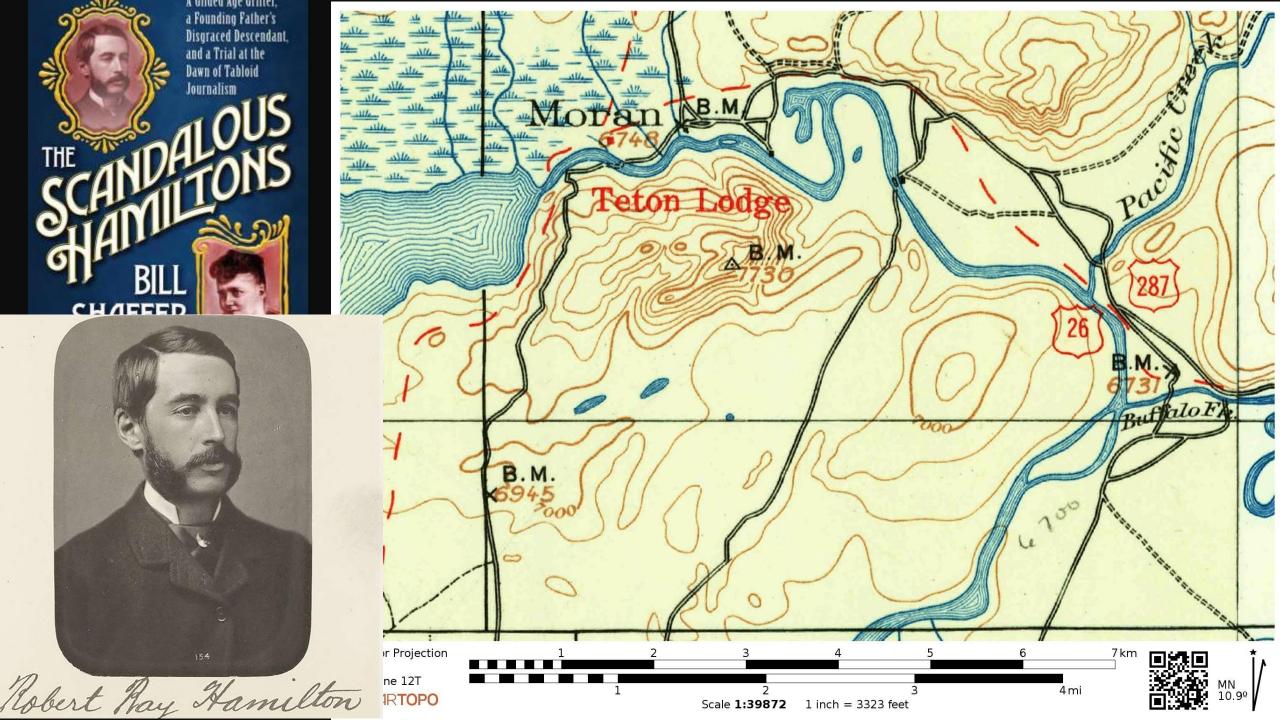




Disclosures

National Park Service
SARTopo
Proprietary Tech Gizmos



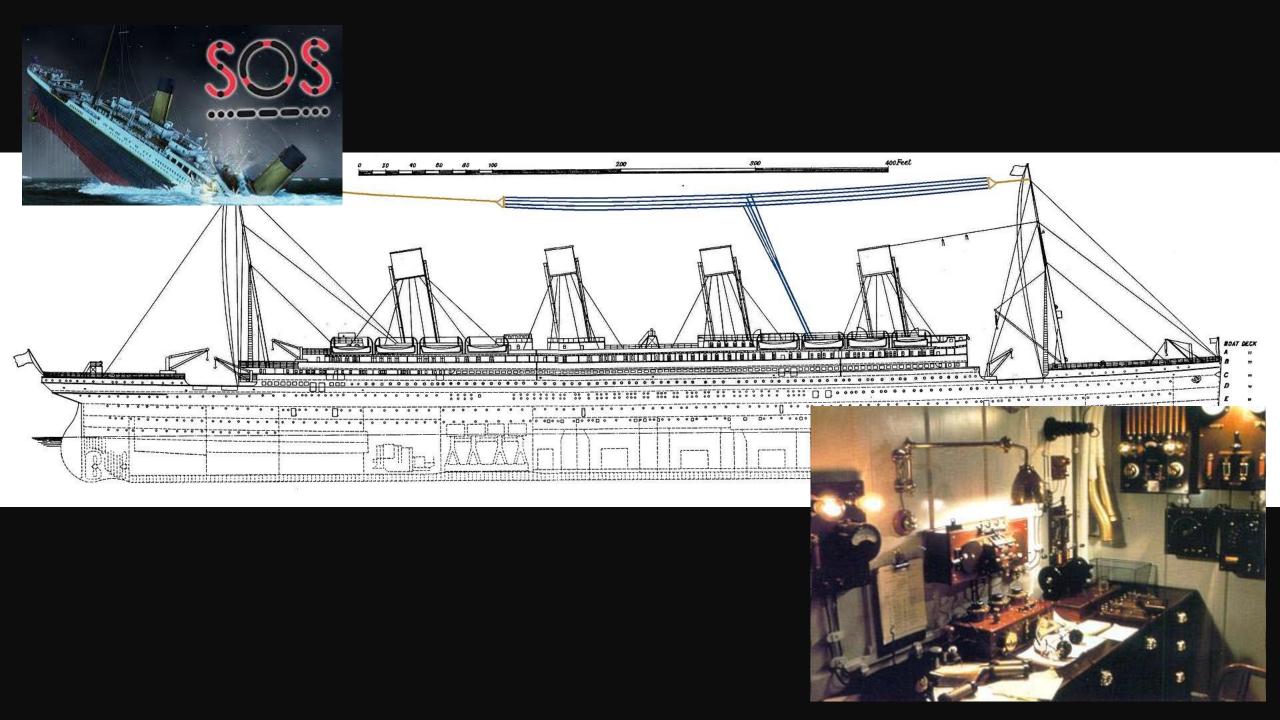


Objectives '

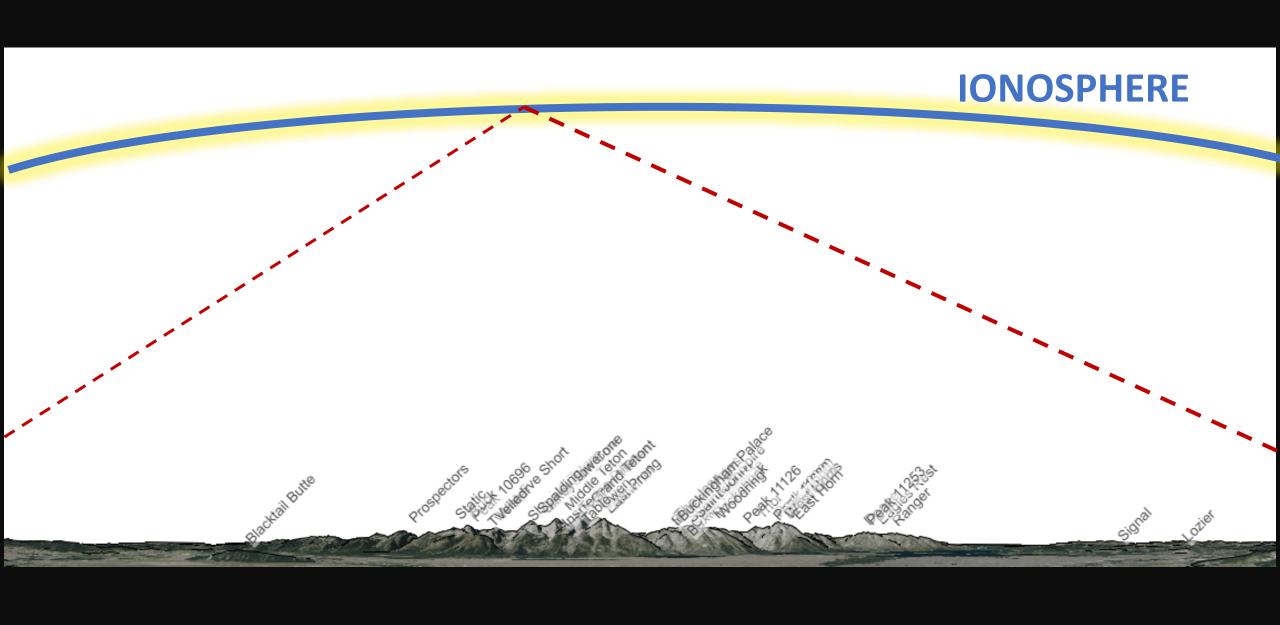
- Discuss historical and advancing technology that aids Search and Rescue Operations
- Understand notification pathways and limitations for geo-location
- Review tools that Search and Rescue Teams can use to aid in searching for the missing person

Origins of Search and Rescue

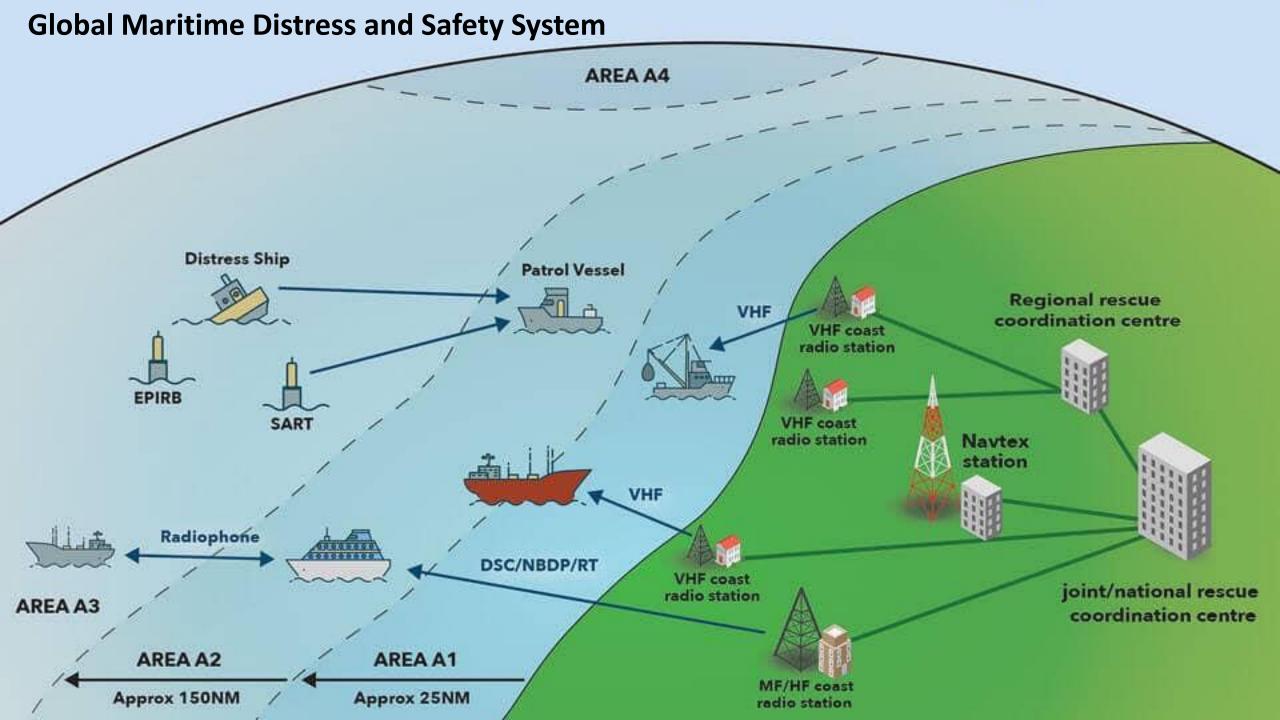




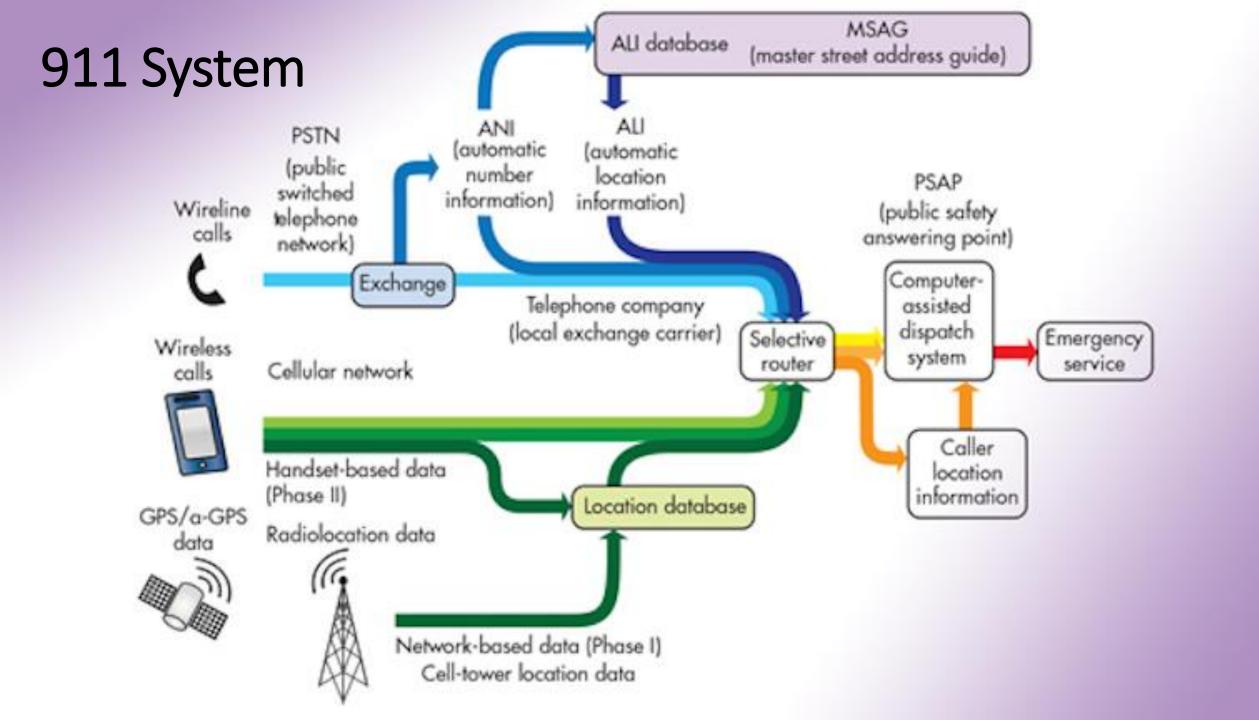






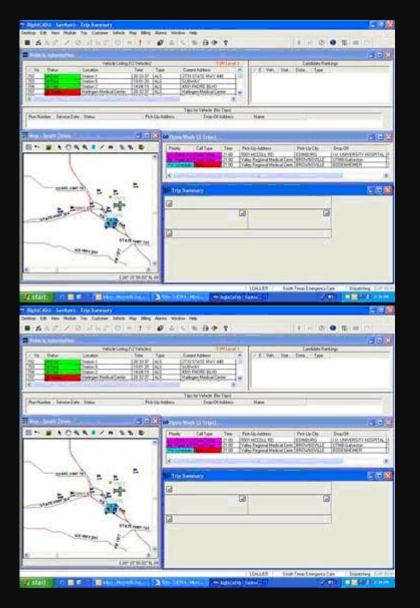




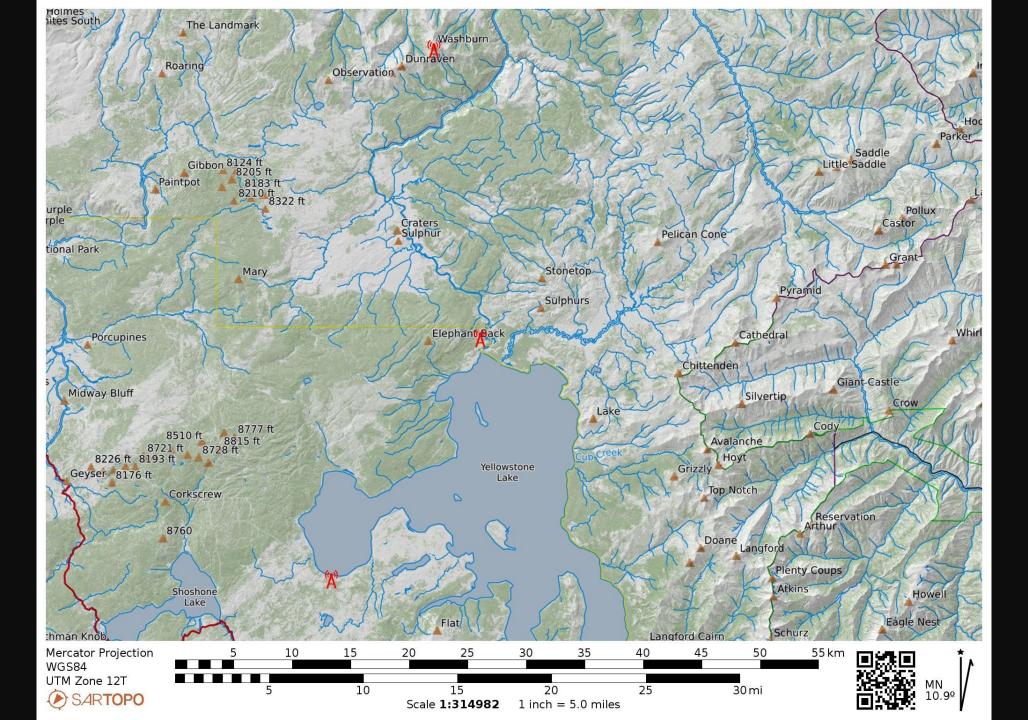


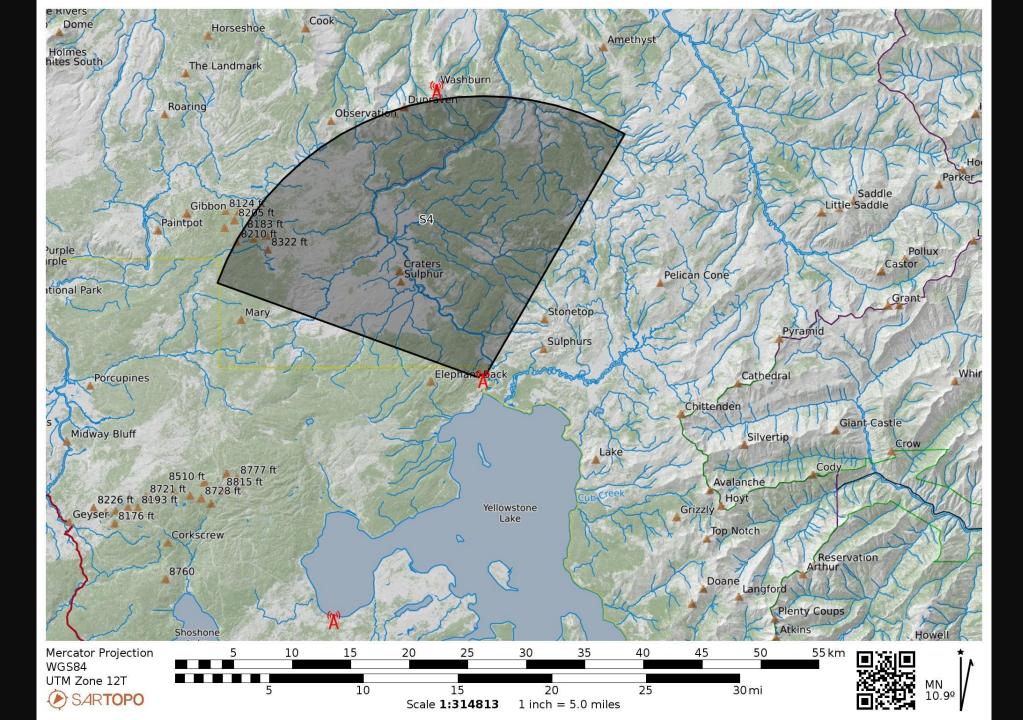


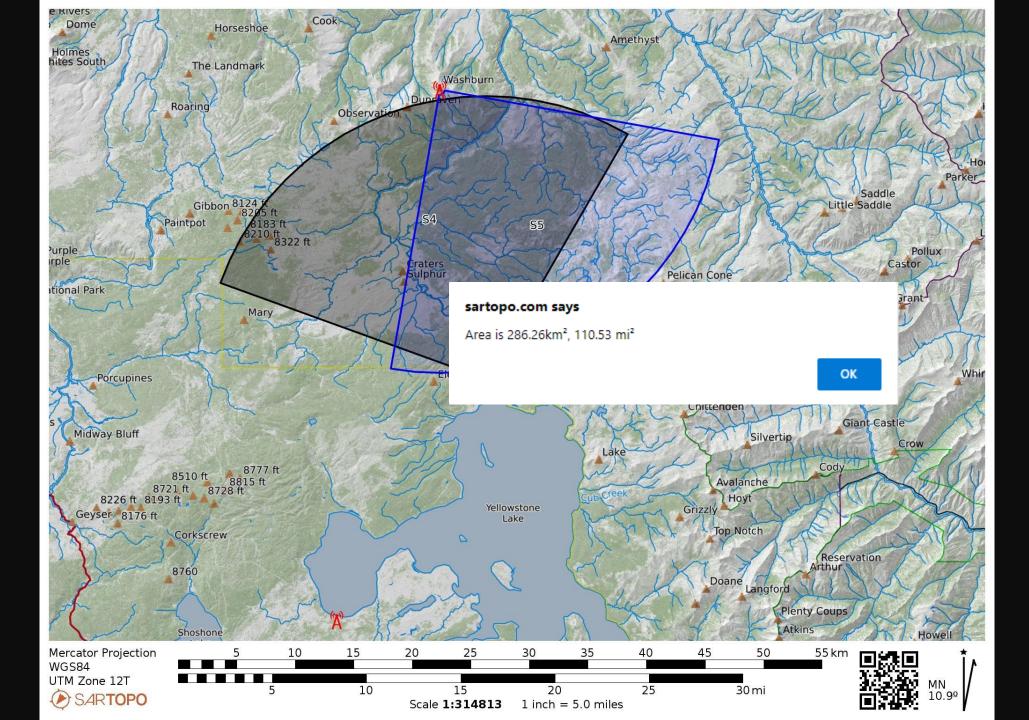


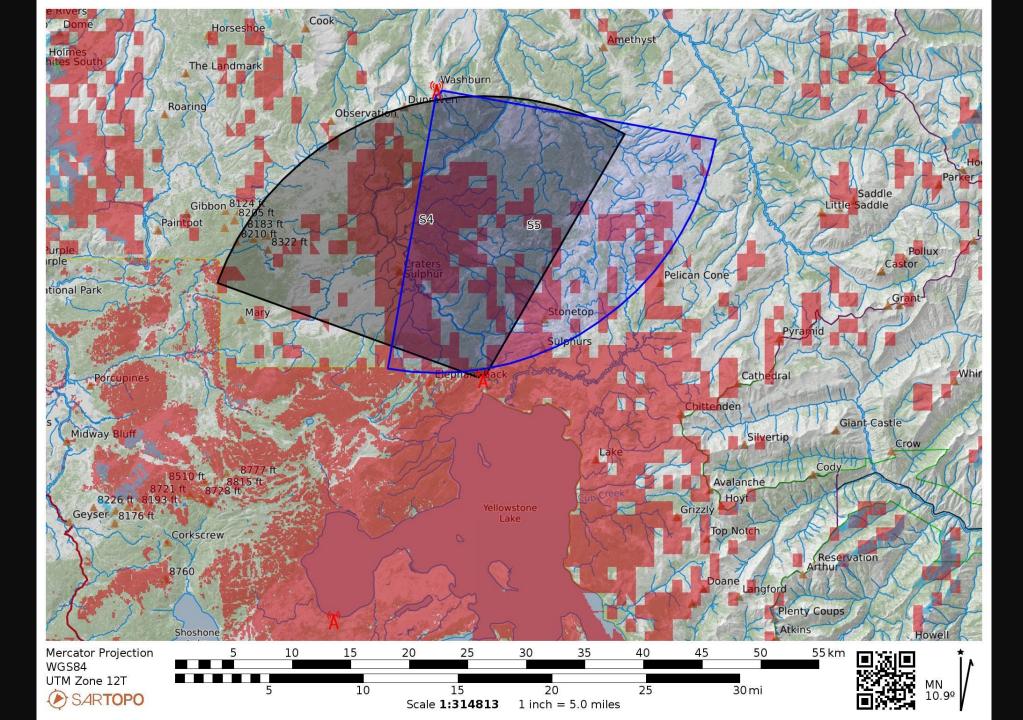


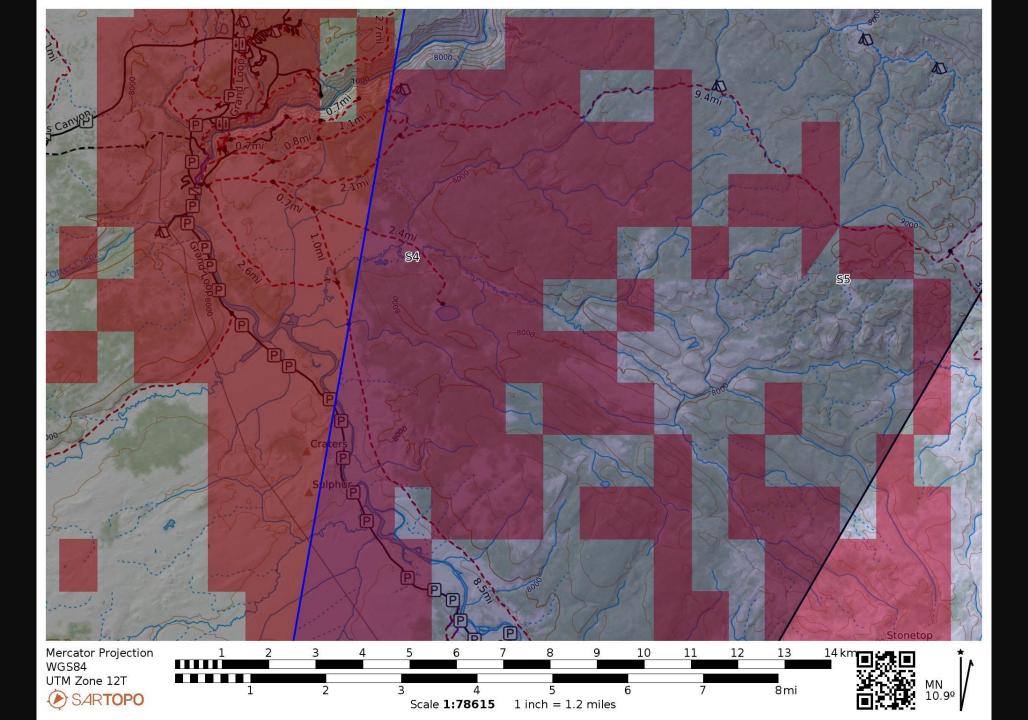


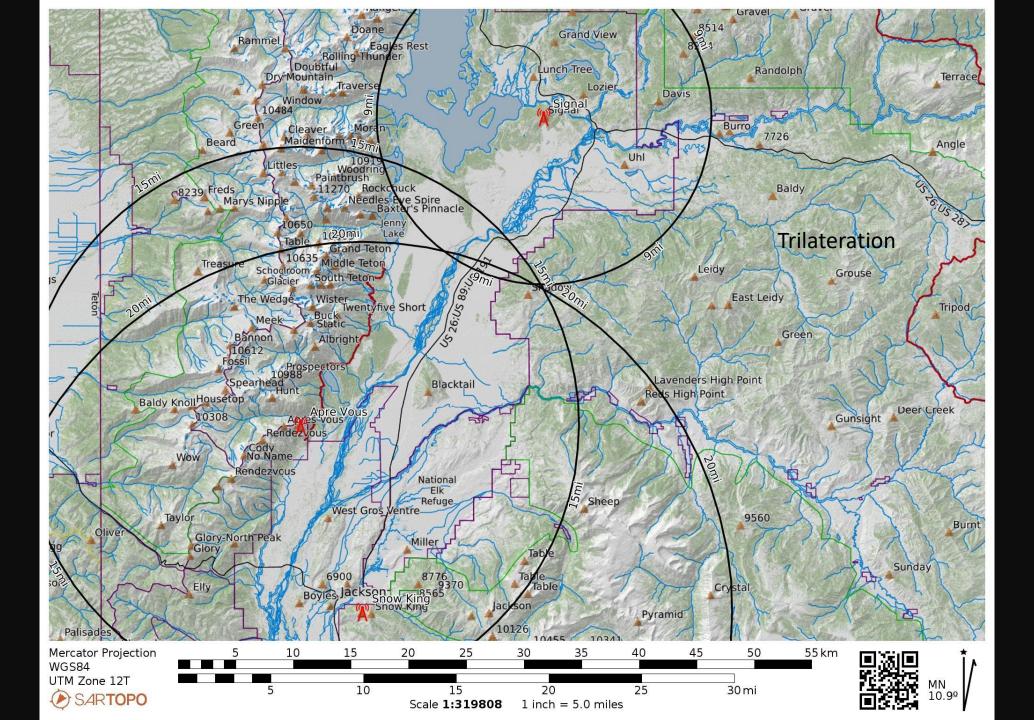


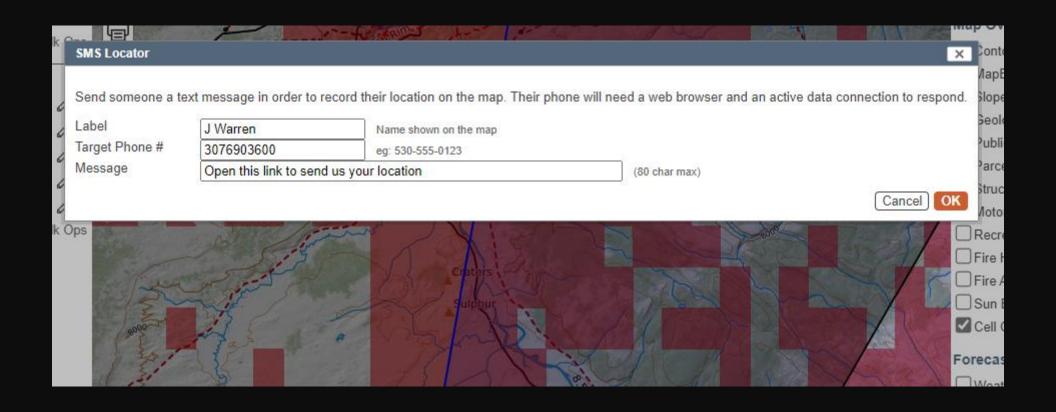


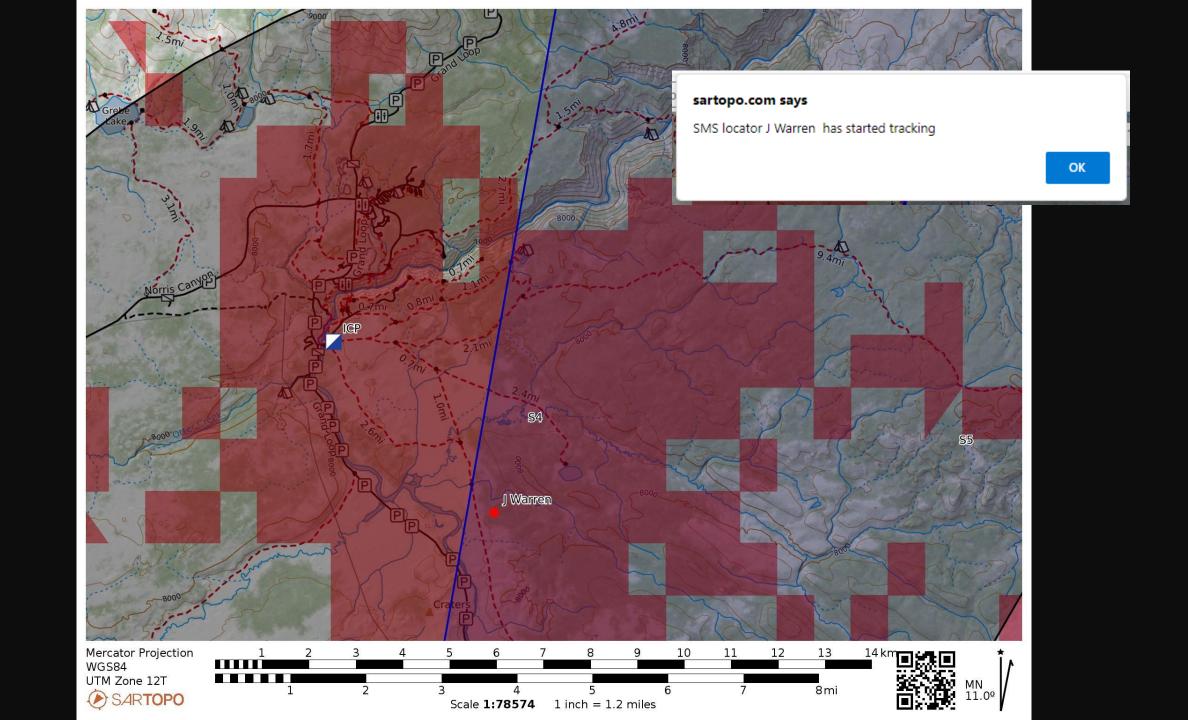


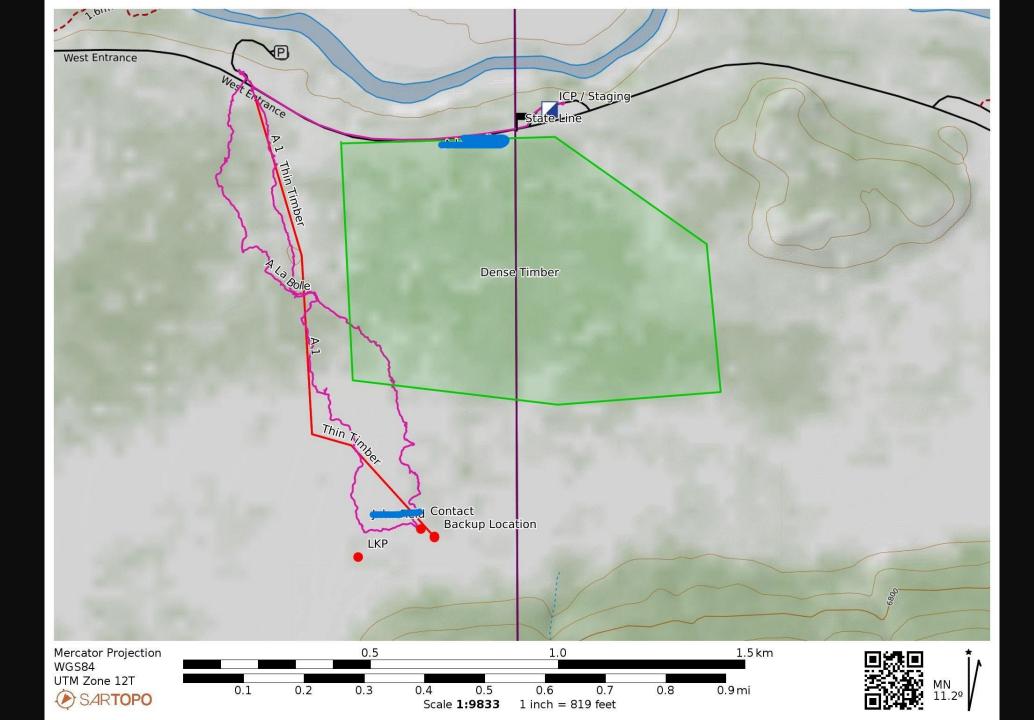


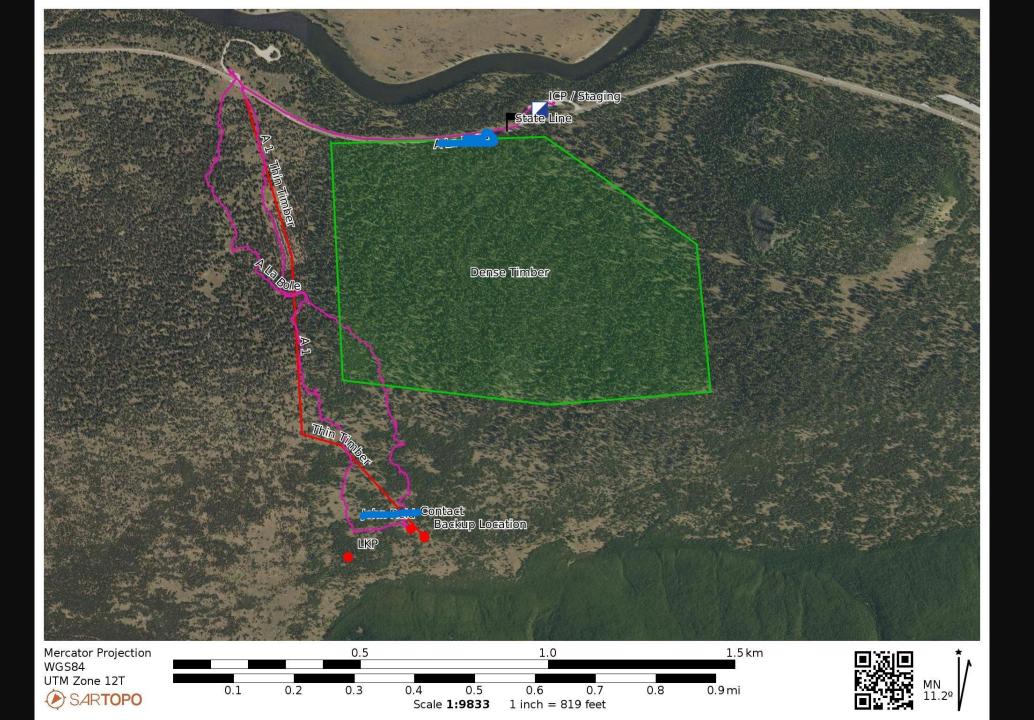








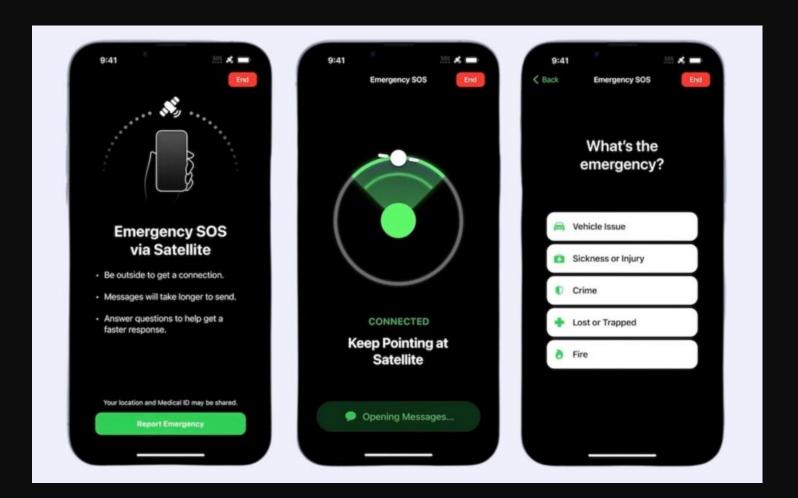




Ping

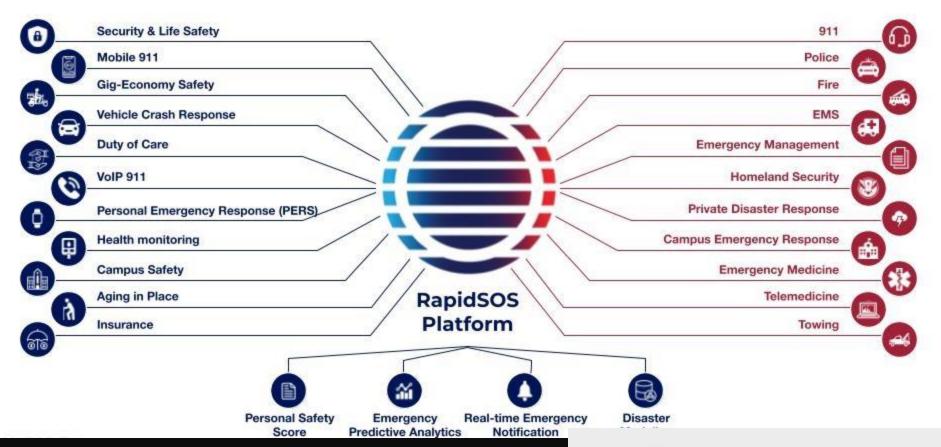
Exigent Circumstances
Submitted through Wireless Carrier
Investigations phase

iPhone 14 / Apple Watch





RapidSOS: Emergency Response Data Platform

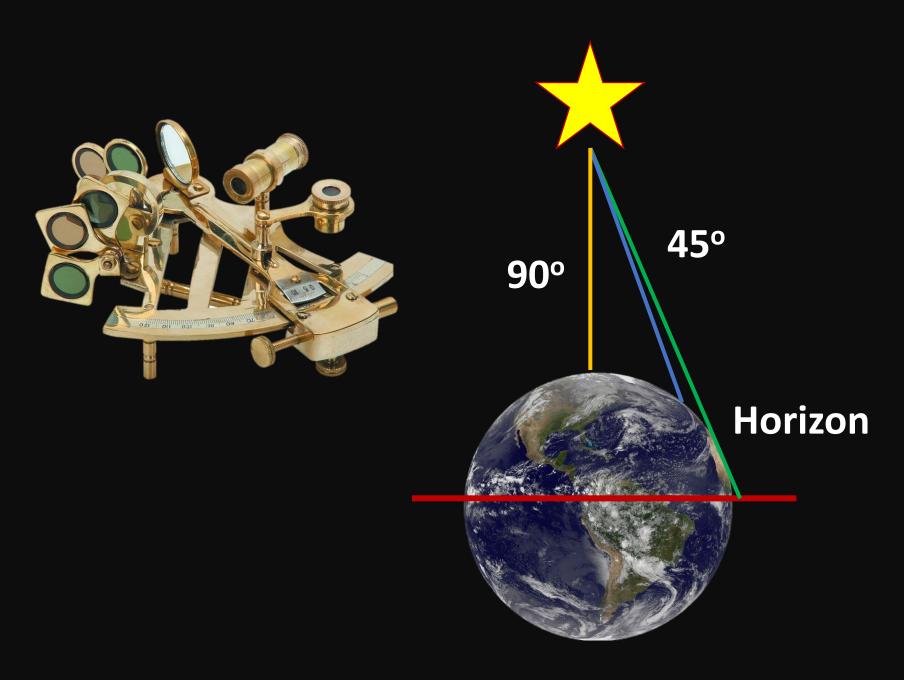


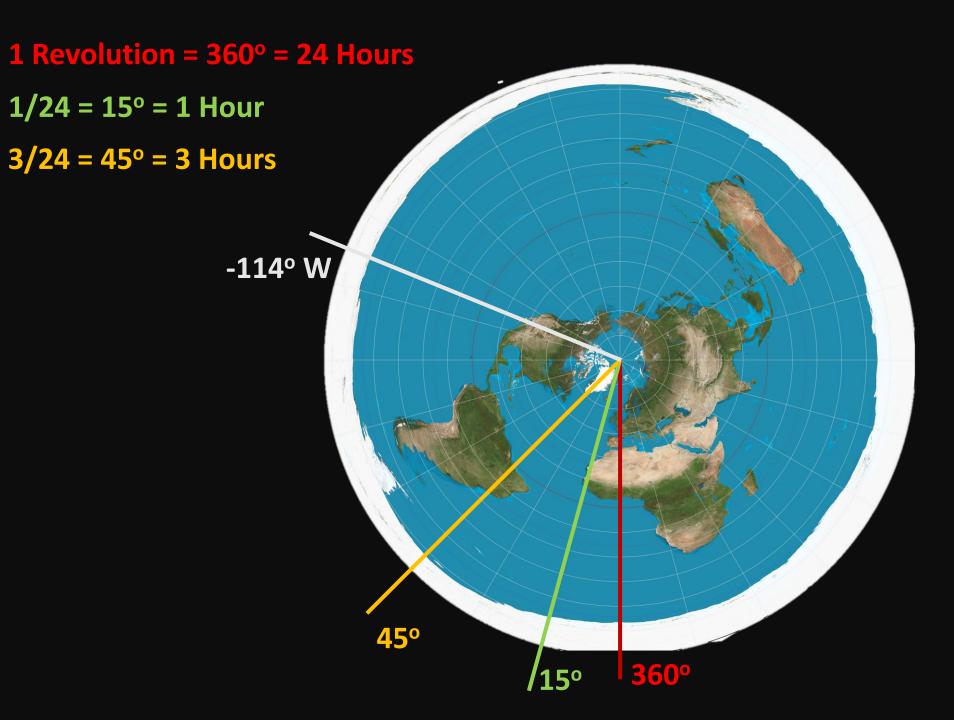
PRECISE LOCATION



GPS





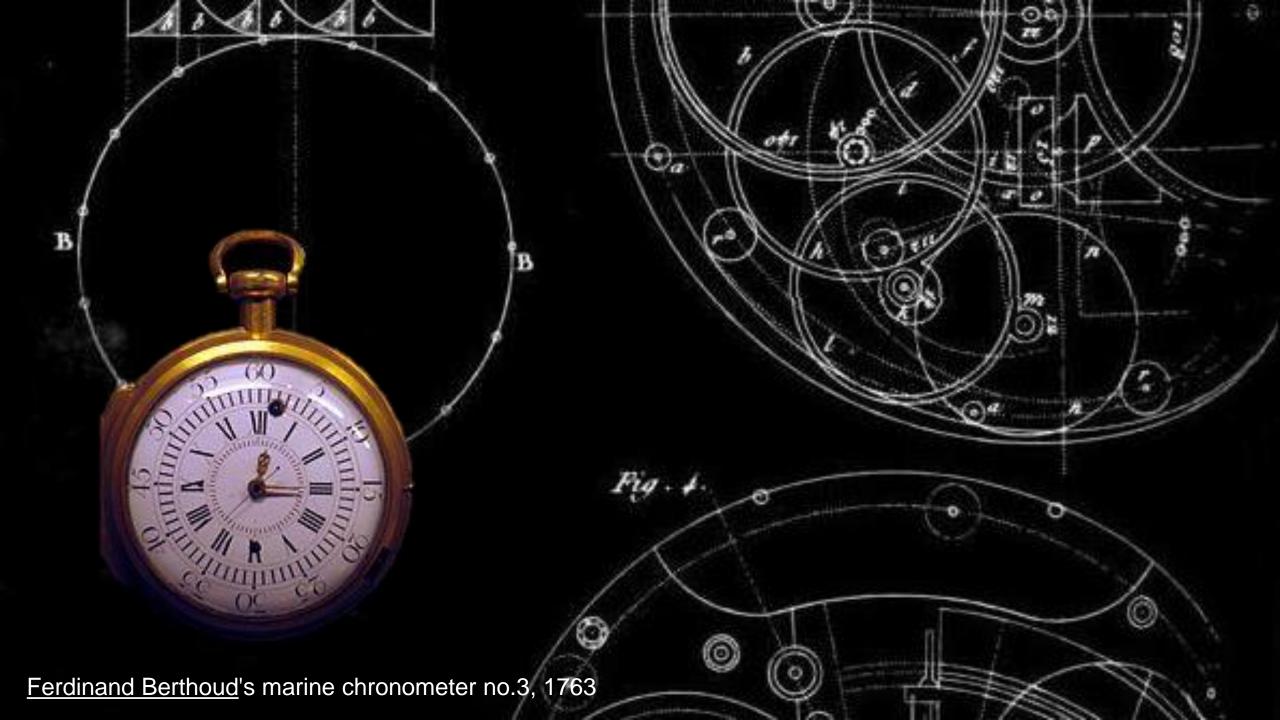


Midnight at our Position

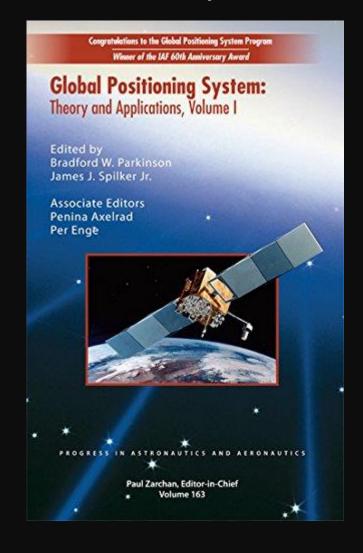
0736 Hours in Greenwich

0736 = 7.6 Hours Earlier

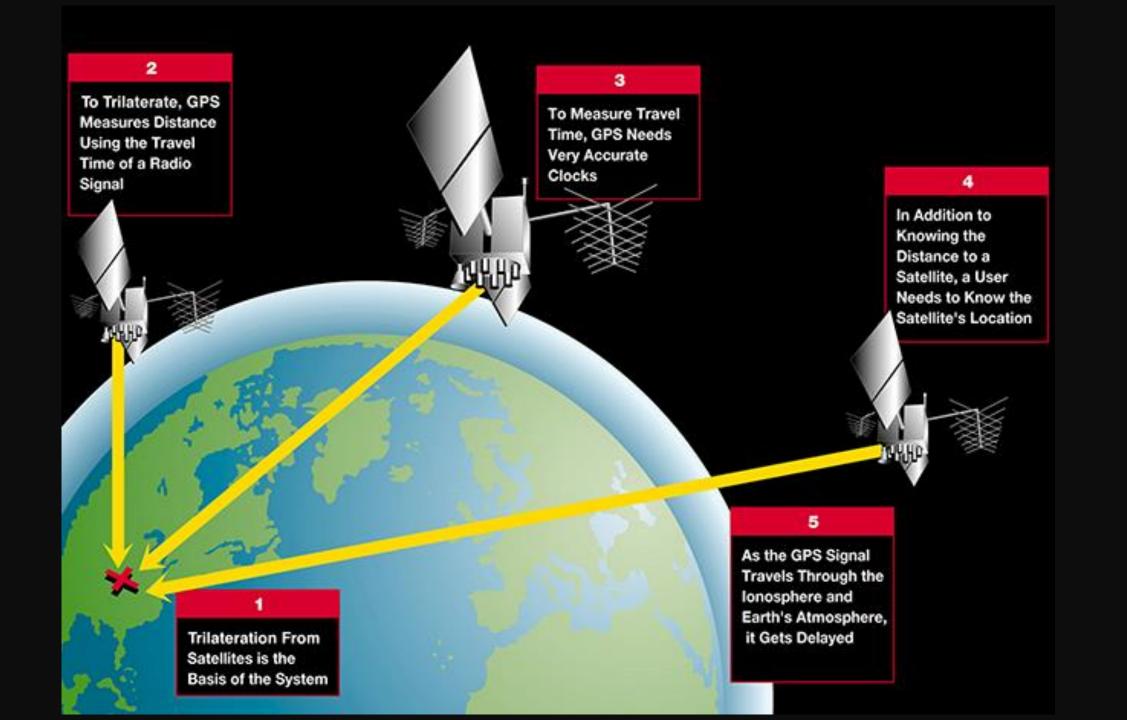
7.6 x 15 = 114° W



A short history of GPS

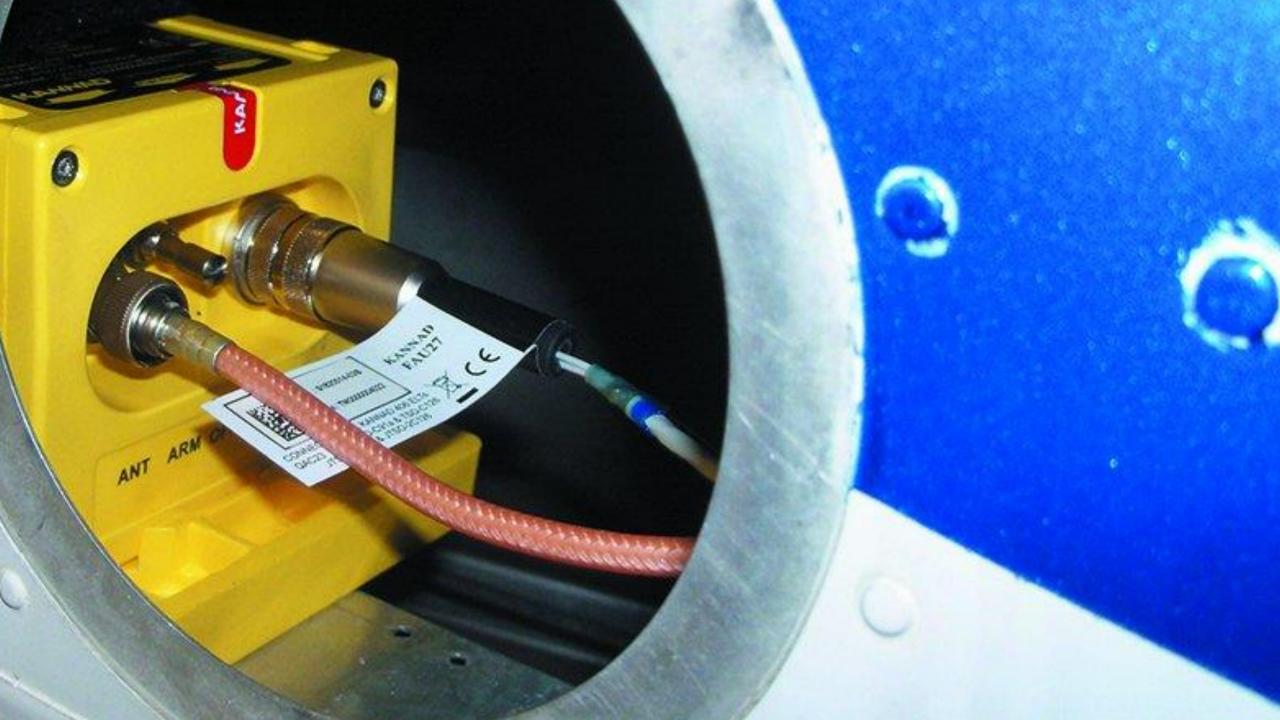






Low Earth Orbit (200km-2000km)

- Iridium (66)
 - Worldwide Coverage
- Globalstar (48)
 - Limited Worldwide Coverage
- Inmarsat (13)
 - Major Continents
- COSPAS SARSAT (65)
 - Global 406
 - Includes GPS





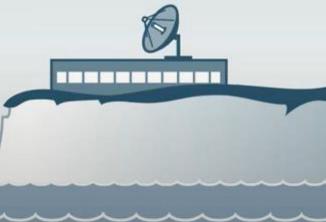






Rescue Alert Satellite

Rescue Centre















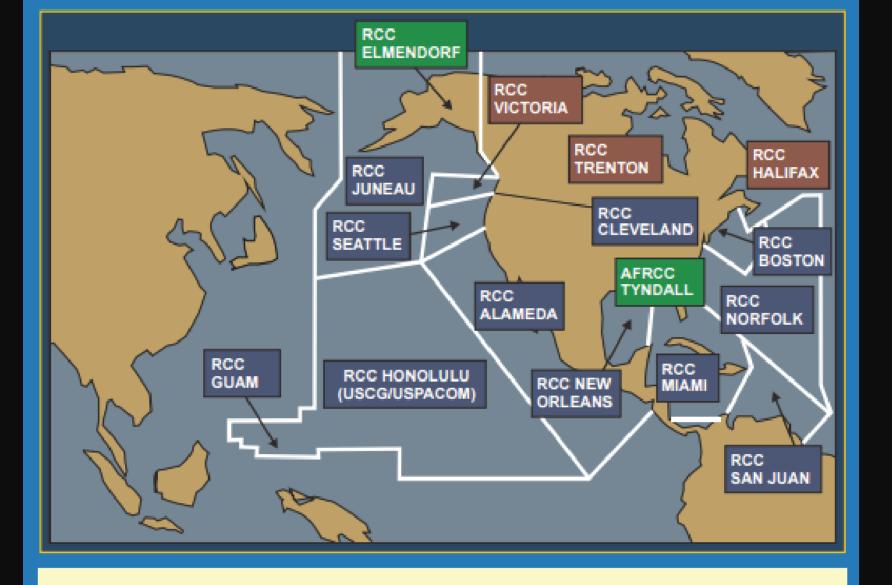












LEGEND

United States Coast Guard RCCs United States Department of Defense RCCs Canadian RCCs

AFRCC RCC USCG

Air Force rescue coordination center rescue coordination center United States Coast Guard USPACOM United States Pacific Command



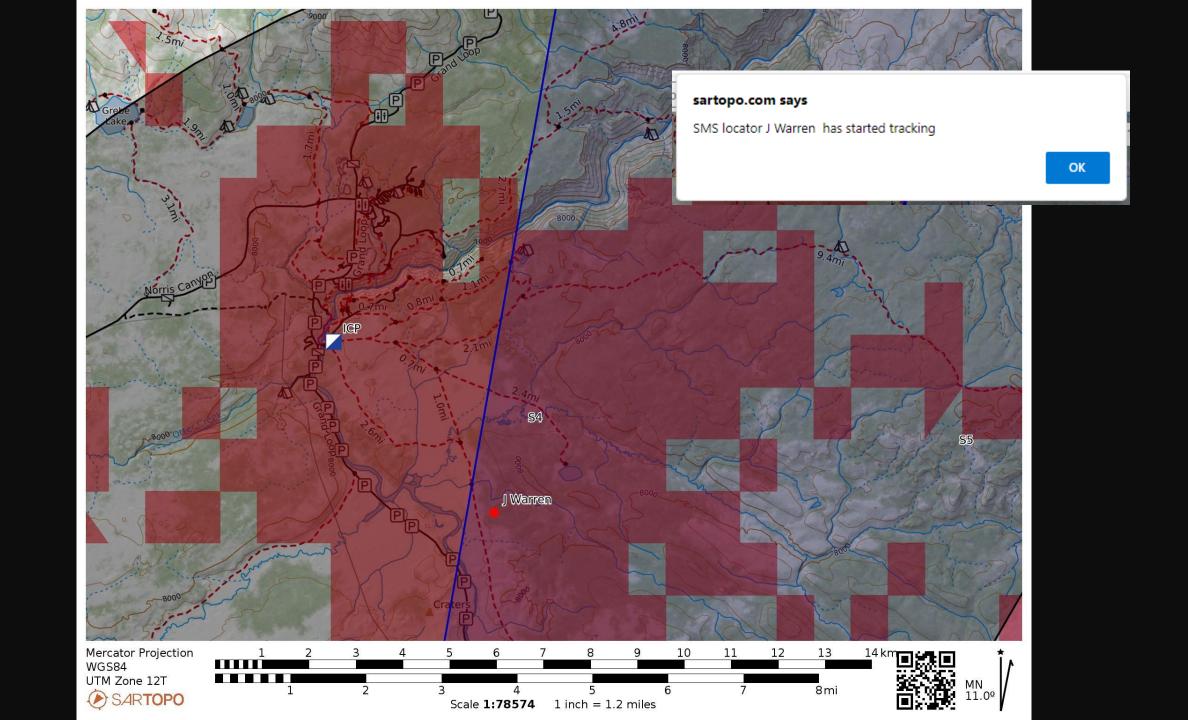
Resource Notification

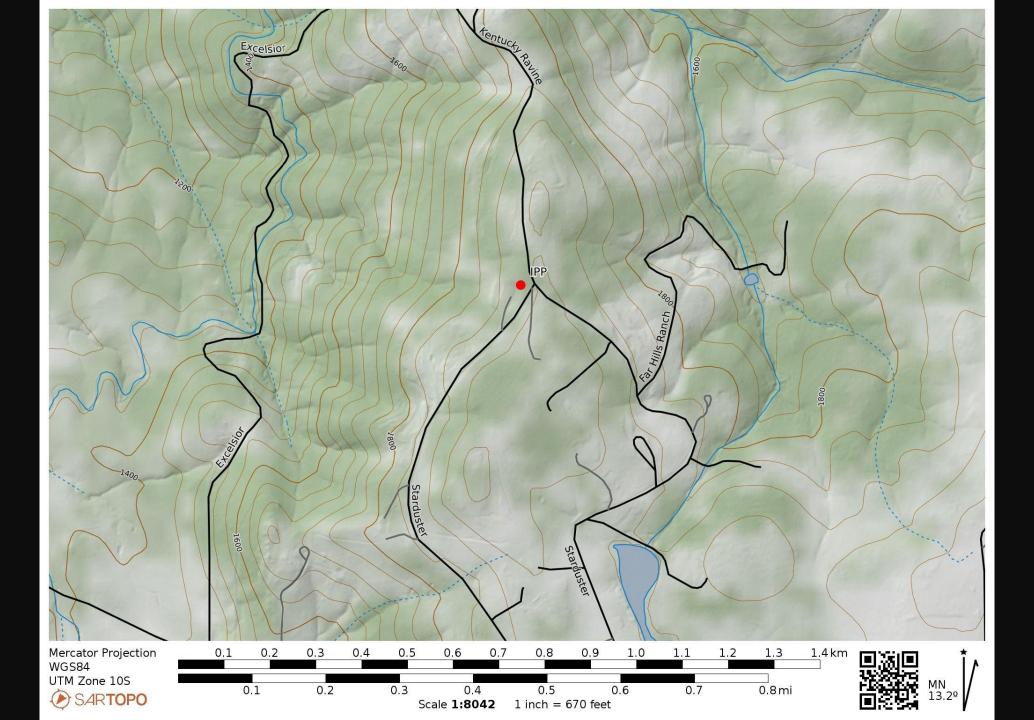
- Nature of Emergency
- Location / Jurisdiction
- SOPs
- Mutual Aid Agreements
- International Cooperation
- Expertise and Equipment

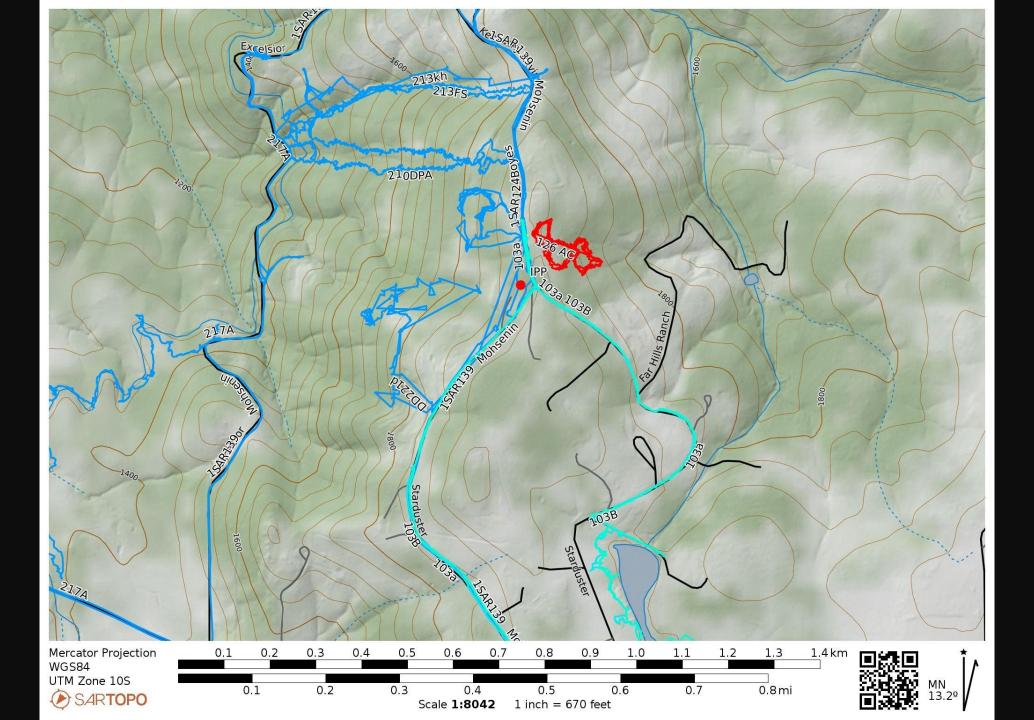
Initial Planning Point

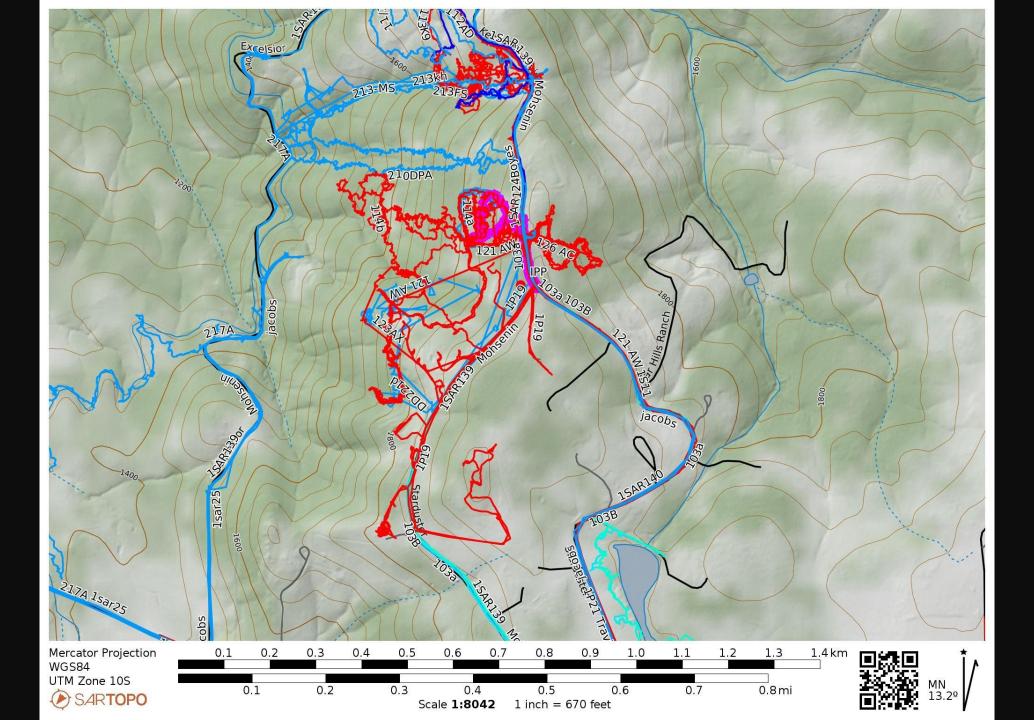
- Known Location
- Unknown Location

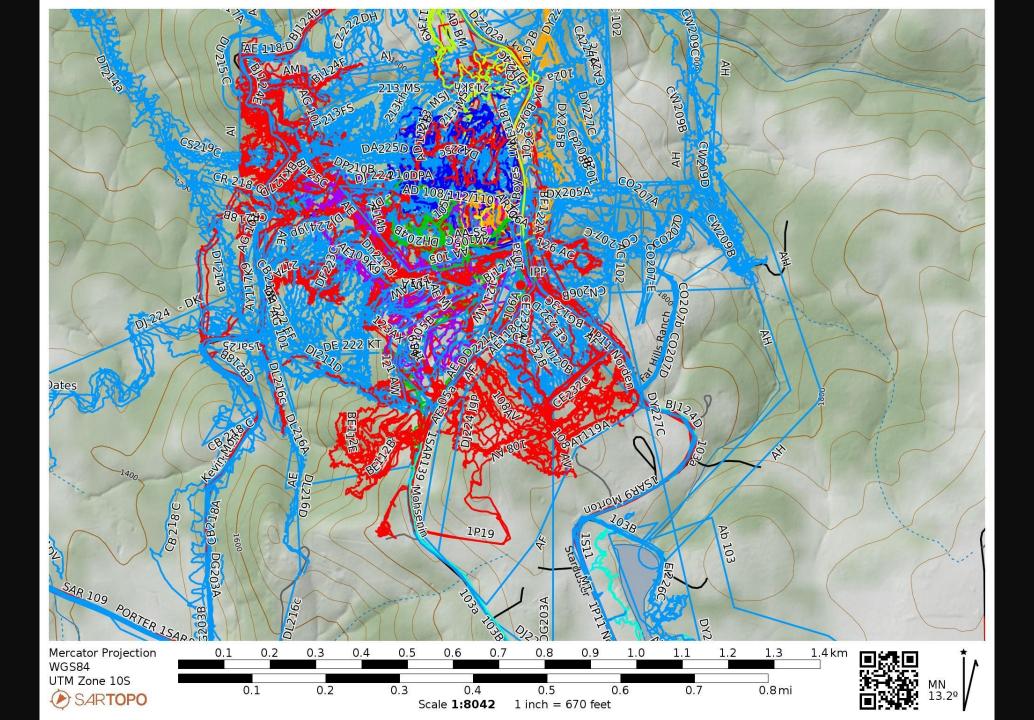
• Begin Focus on Linear Terrain Features











Revisiting Spurned Soaps



///revisiting.spurned.soaps









Navigate



This is an example of what you'll share

https://w3w.co/revisiting.spurned.soaps 43°41.8168'N, 114°21.1627'W





Customise share settings











Facebook

Facebook Messenger

Whatsapp

EJ Kids The Toy Store

Twitter

Copy Link







SMS



Shrunk.Gazes.Zoomed

