21st Century Search and Rescue

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Overview

- How do searches start?
- Modern location technology
- How do I plan?
- What do I pack?





Idaho Search and Rescue

• <u>Notifications</u>:

- AFRCC calls: SARSAT Network (406)
- FAA calls: ALNOT (overdue)
- FAA/AFRCC calls: Beacon/ELT (121.5)
- Witness Report ("I heard/saw...")
- Next of Kin ("My father is missing...")

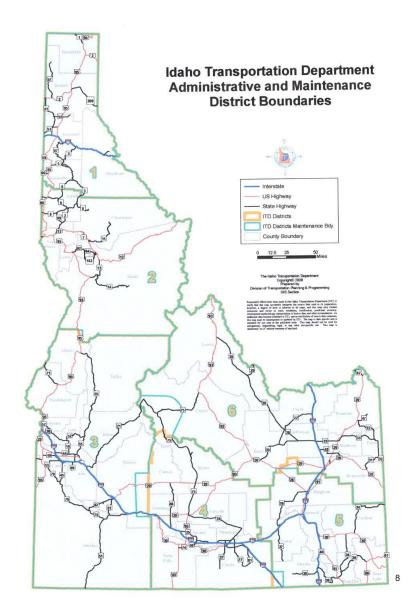






Response

- Idaho Districts
 - County first responders
 - Local SAR forces
 - Airport Staff
 - Search Volunteers (\$)
- Back for federal help
 - CAP air or ground
 - Cell phone or Radar
 - Guard (night, hoist)
 - Advanced Civil







COSPAS-SARSAT User Segment



COSPAS-SARSAT System Overview

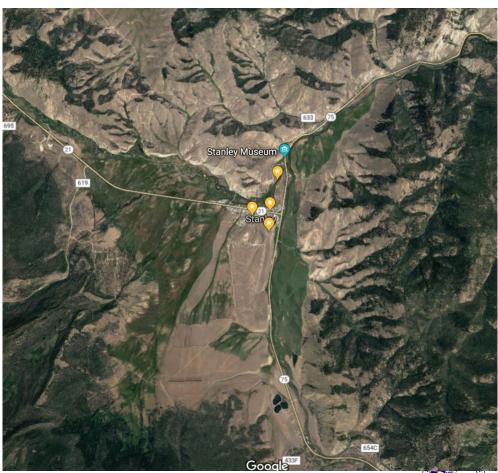


Not all Beacons are Alike

– Three radio scenarios 406/406 Nav/406 GPS

– Error ellipse:

- A. 406 MHz = 6-9 nm
- B. 406 MHz connected to Nav
- C. 406 MHz with GPS < 100 m
- 121.5 classic and 406
 - 121.5 MHz = 12 nm

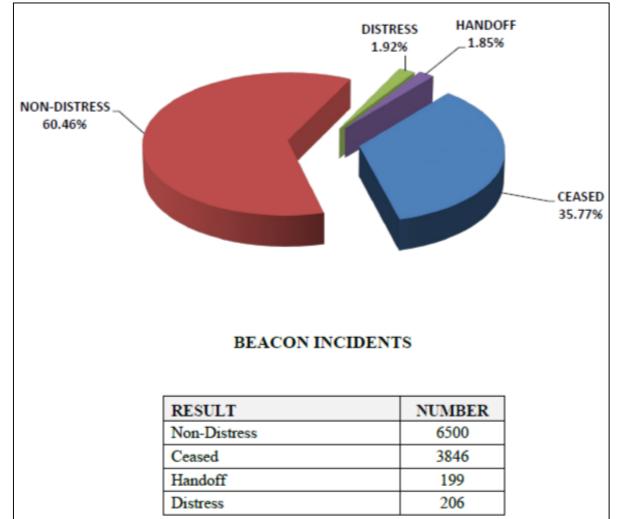






Idaho Search and Rescue

False Alarms 2019







Resources for Search

- AFRCC beacon database
 Cell and Radar Teams
- Phone
 - Local Dispatch, Airfield Contacts



- ADS-B
 - Better than 406 depending on coverage





ADS-B and Search



Coverage and type are important





Locate / Post Locate

- Direction Finding Air/Ground
- Positive ID
- Assist with Rescue

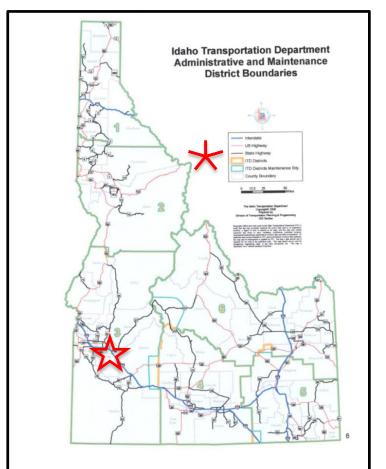
- Secure Beacon
- Notify FAA, NTSB, AFRCC etc.
 - Secure site, photos, etc.
- Salvage (owner, insurance, etc.)





Rotary Wing and Night

- North/South of Riggins
- Two Bear Air
 Hoist, NVG, Medics
- ID ANG
 Hoist, NVG, Medic
- Life Flight
 - Some NVG, Medic
 - No Hoist





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Idaho Search and Rescue



- Takeaway
 - Plan to be found
 - Flight Following
 - Communicate
 - Registered Beacon
 - Other
 - Overnight
 - Survival Gear
 - Camping Gear





Overview

- How do searches start?
- Modern location technology
 Cell, ADS-B, Satellite
- How do I plan?
 - Who will declare me overdue?
 - Where will they look for me?
- What do I pack?
 - Be prepared to stay the night.





Questions?



