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

- **Notifications:**
  - 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
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

BEACON INCIDENTS

<table>
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<tr>
<th>RESULT</th>
<th>NUMBER</th>
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<tr>
<td>Non-Distress</td>
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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
• 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?