



Alaska Rescue Coordination Center

"That Others May Live"

AKRCC OVERVIEW

SMSgt Mark Roberts
AKRCC Superintendent

Integrity - Service - Excellence



AKRCC Mission

"That Others May Live"

- Executive agency for CDRALCOM to plan, coordinate, and control DoW participation in SAR operations in the Alaska Search and Rescue Region (SRR) per the National SAR Plan.
 - Primary mission is to execute SAR Mission Coordinator (SMC) responsibilities in AK SRR for:
 - Civil aviation over landmass of Alaska
 - US military activities within AK theater of operations
 - Secondary mission is to assist other AK agencies in prosecuting SAR in their respective area of operations
 - Coordinate DoW support to civil authorities (DSCA) SAR
- Receive/Track 406 MHz Emergency Locator Transmitter (ELT) and Personal Locator Beacon (PLB) signal notifications
 - Investigate reports of 121.5 VHF/243.0 UHF Emergency Beacons

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In Other Words...

"That Others May Live"

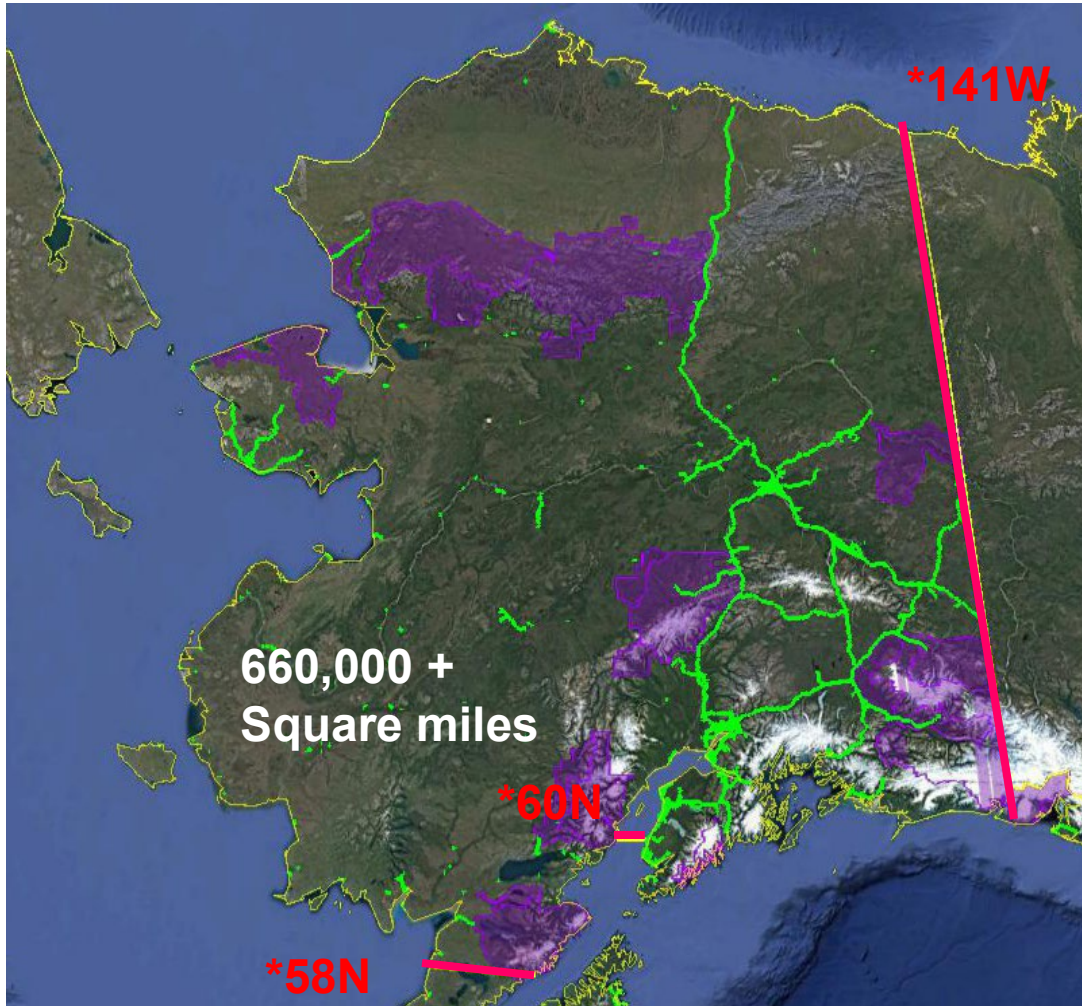
- Active Duty mission performed by Alaska Guardsmen
 - 1961 – RCC Stood up
 - 1994 – ANG manning
- Inland aeronautical SAR
 - Assist with terrestrial & maritime SAR
- 24/7/365 Operation
- Coordinate DoW SAR response
 - **ASK not TASK**





Area of Responsibility

"That Others May Live"



➤ Mainland Alaska

- Cook Inlet above 60N
- NPS owns SAR within the National Parks
- Aleutians, Islands, and Water belong to USCG



AKRCC Manning

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➤ 7 x Rated OFFICERS

- AK RESCUE background
- Attached to unit for flying
 - 2 x HH-60 Pilots
 - 3 x HC-130J Pilot/CSO
 - 1 x CRO (PJ Officer)
- 3 Year Tour

➤ 6 x ENLISTED

- C2 or RQS background
 - 3 x 1C5 (ADS Controller)
 - 1 x 1Z (Pararescuemen)
 - 2 x 1A (SMA / Loadmaster)
- 3-5 Year Tour





Alaska SAR Assets

"That Others May Live"

DoW Forces

➤ **Alaska Air National Guard– 176 WG**

- 210th Rescue Squadron (HH-60G/W)
- 211th Rescue Squadron (HC-130J)
- 212th Rescue Squadron (GAWS)

The "Rescue Triad"

➤ **AS CAPABLE:**

- AK Army National Guard
- Active Duty Army (11th Airborne)
- Civil Air Patrol (Air and Ground)

Other SAR Forces

➤ **Government Agencies:**

- Alaska State Troopers (Air, Ground, Volunteer Teams)
- USCG (Air, Maritime, Sector)
- National Park Service (Air and Ground)
- NSB

➤ **Other Assets:**

- Good Samaritans
- Volunteer Groups
- Air Ambulances



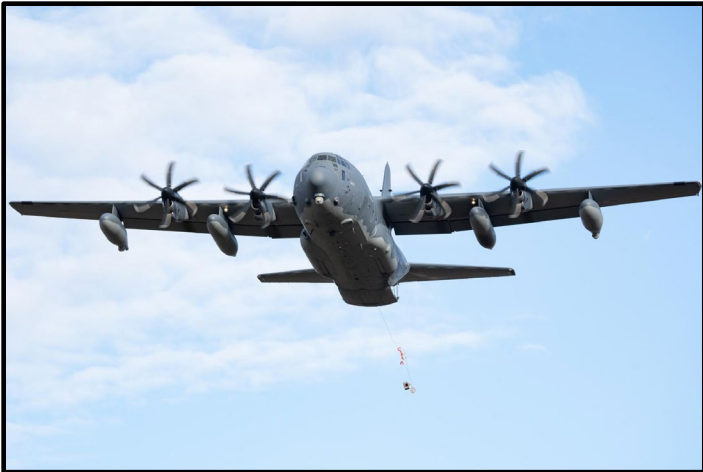


AKANG Capabilities

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- **Unlimited Range/Crew Day Limited**
- **SAR Capabilities:**
 - Hoist, PJ infil/exfil
 - Rescue airdrops
 - Customized to mission need (gear, food, med equipment, blood, medication, fuel, radio)
 - Illumination Flares
 - Long Range Expedited SAR via PJ airdrop
 - Transload Operations



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Capabilities

212 RQS Guardian Angel



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Specialized SAR/PR Operators

- Glacier/Mountain/Avalanche technical rope rescue/recovery
- Water Operations
- Precision Parachutists
- Aircraft/Vehicle extrication capable
- Extended Field Care/Critical Care > 48 hrs
- Confined Space/Structural Collapse experts
- SCUBA Recover capes w/ SONAR



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Army National Guard

UH-60L/M

CH-47

UH-72

Nome

Ladd AAF

Bethel

Bryant AAF

Juneau

- Respond as capable
- All weather, NVG
- Critical Care Flight Paramedic as required

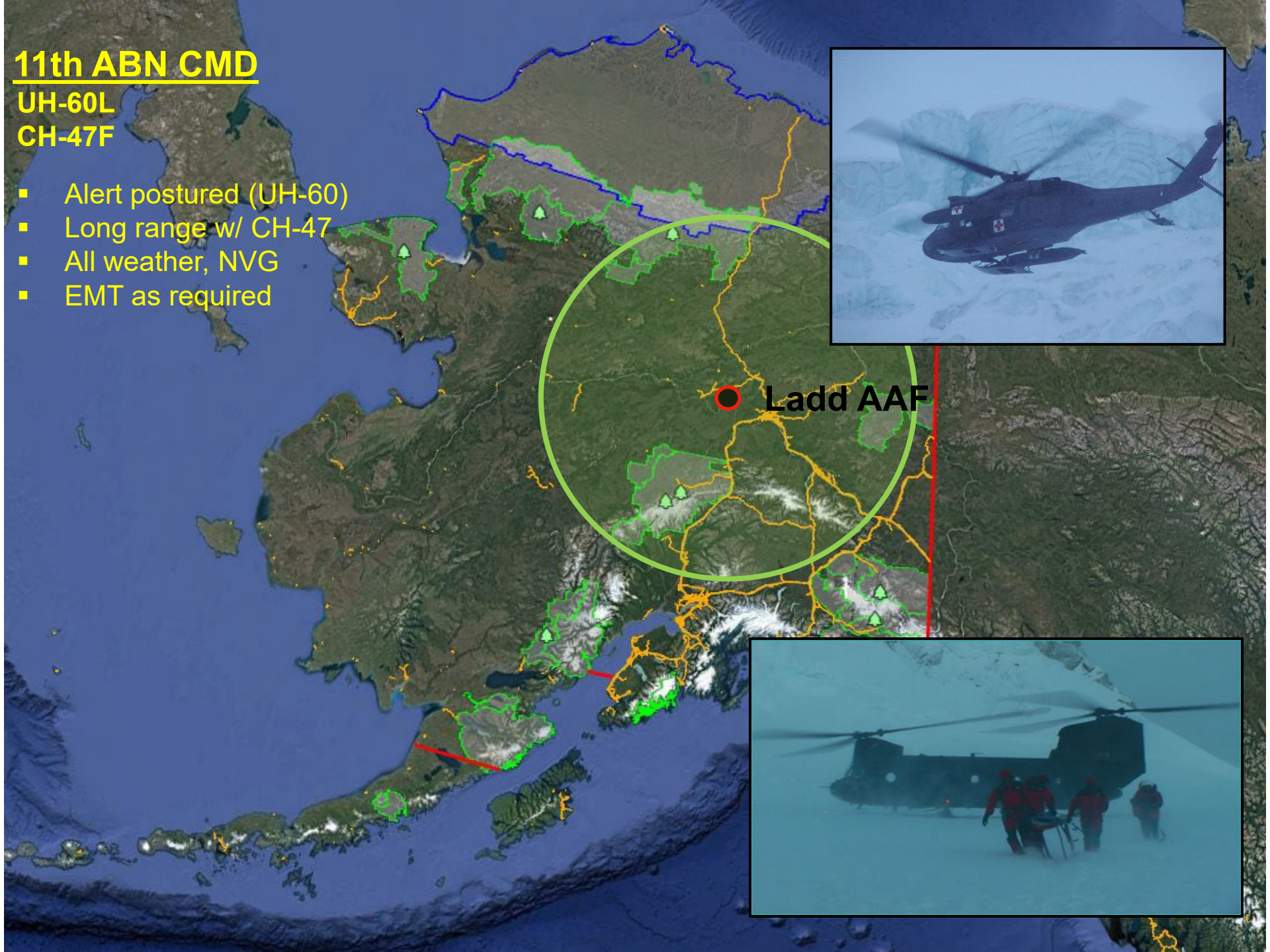


11th ABN CMD

UH-60L

CH-47F

- Alert postured (UH-60)
- Long range w/ CH-47
- All weather, NVG
- EMT as required

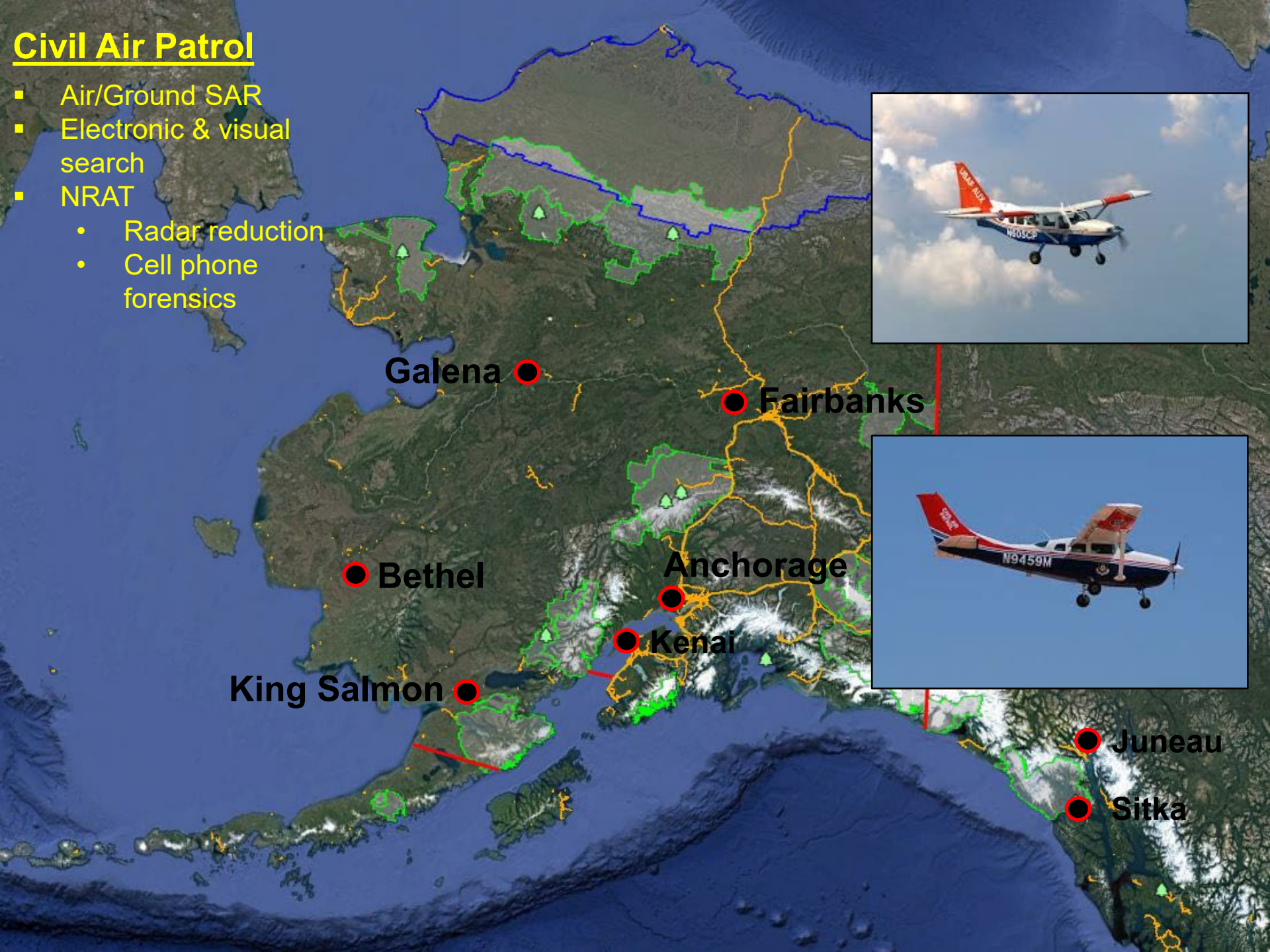


● Ladd AAF



Civil Air Patrol

- Air/Ground SAR
- Electronic & visual search
- NRAT
 - Radar reduction
 - Cell phone forensics



State SAR Resources



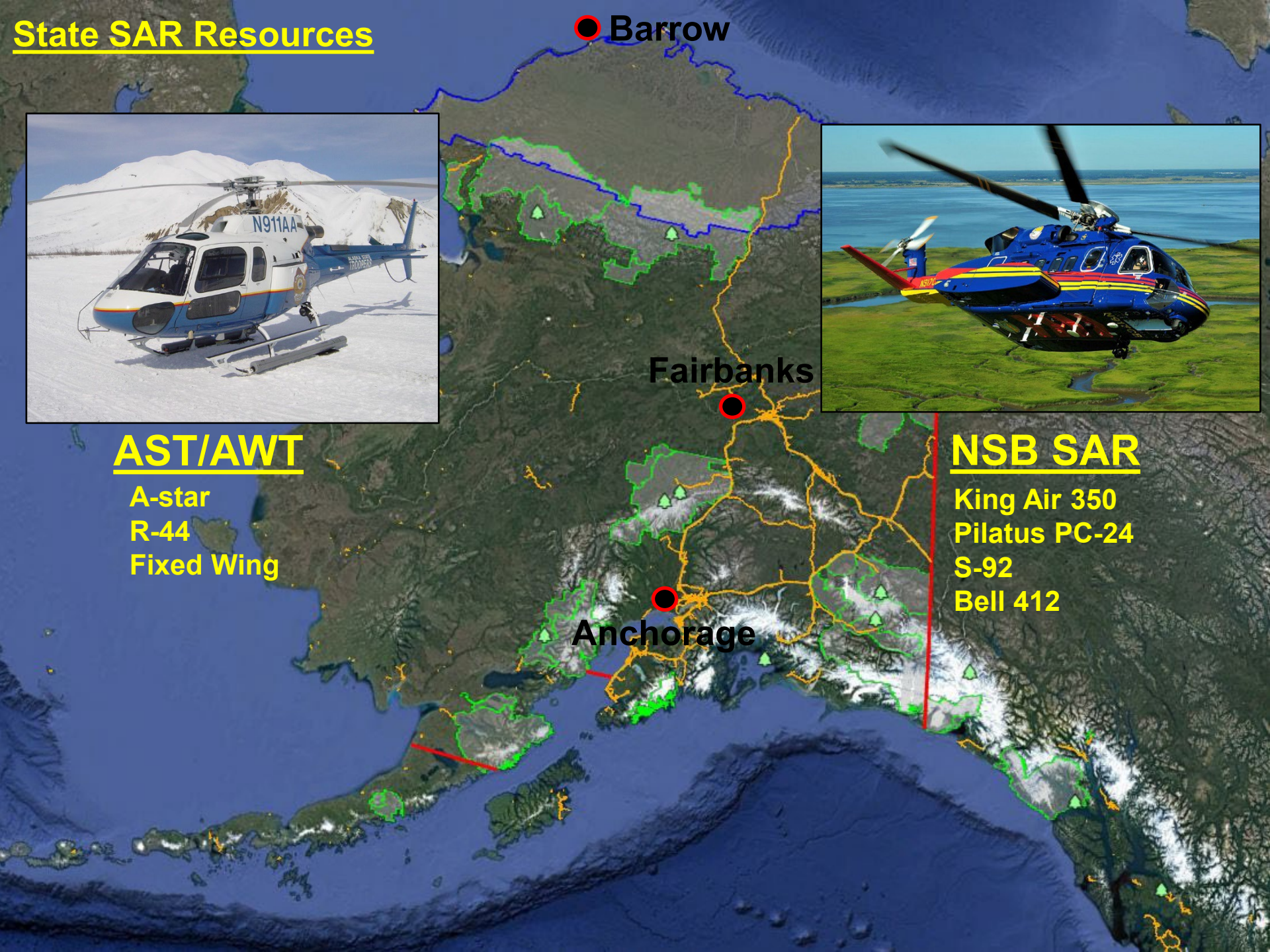
AST/AWT

A-star
R-44
Fixed Wing



NSB SAR

King Air 350
Pilatus PC-24
S-92
Bell 412





Alaska SAR Relationships

"That Others May Live"

Department of War

USNORTHCOM

ALCOM

AK RCC

USCG

District 17

AKANG

SAR Duty Officer

AKARNG

State Army Aviation Officer

11th ABN

Command Center

CAP

Incident Commander

AST

State SAR Coordinator

NSB

On Duty SAR Lead

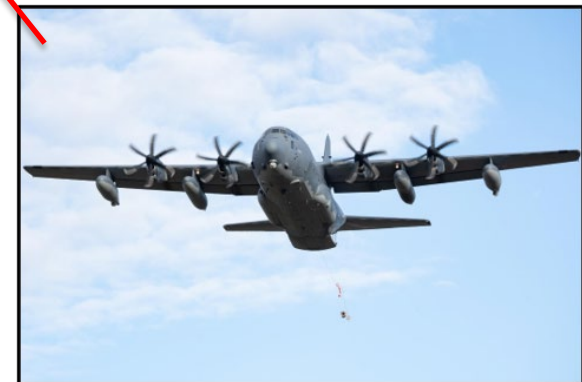
Ask, Not Task

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Bottom Line

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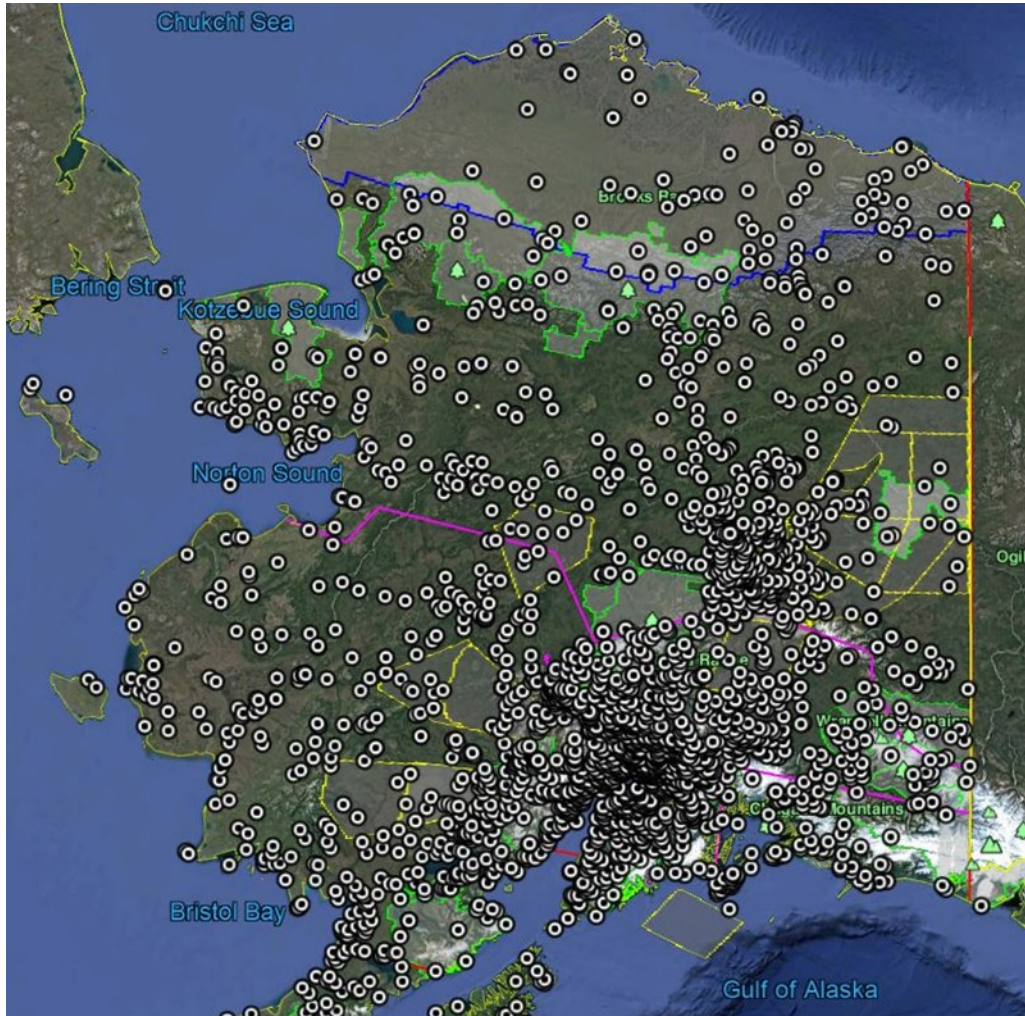


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AKRCC STATISTICS

"That Others May Live"



CY 2026

Incidents	418
Missions	114
Hours	348.7
Lives saved	71

CY 2025

Incidents	559
Missions	156
Hours	496
Lives saved	187

1994

Missions	6,742
Lives saved	3,281

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Alaska Rescue Coordination Center

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Rescue Resources

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Rescue Resources

"That Others May Live"

- **AISR**
- **CIVIL AIR PATROL (NRAT)**
- **AIREON**
- **GARMIN INREACH/ GRC**





“That Others May Live”

Legend

- 10k', FL180, FL300
- McGrath

406

- ❖ 1-3nm, no GPS
- ❖ 100yds, w/GPS

121.5

A map of Alaska with three concentric red circles centered on Fairbanks, representing flight paths. The circles are labeled with fuel consumption data:

- Outer circle: ❖ FL300 ~ 187,000 sq/mi
- Middle circle: ❖ FL180 ~ 112,000 sq/mi
- Inner circle: ❖ 10K ~ 62,000 sq/mi

Other labels on the map include Fairbanks, Kasla, and Alaska.



AISR

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➤ AERONAUTICAL INFORMATION SERVICES REPLACEMENT

- Is the authoritative government source for collecting, storing, maintaining, and disseminating aeronautical data for the U. S. and its territories.
- RCC primary use for tracking, locating, and communicating with registered 406 ELT users.
- All 406 ELT data pulled from NOAA beacon registration.





AISR

“That Others May Live”

aisr.nas.faa.gov/AISR/message/index.jsp

AIISR Messages — 461-96530

Refresh Save Print Retransmit Empty Folder Move To...

461-96530 Search Text Search

	From	Subject	Date/Time	Read Time
DD	KZDCZSZA	/54075 00000/3600/22 250 1643 /170/308A SITE ID: 96530 **** 406 BEACON NO	07 SEP 2022 16:43	07 SEP 2022 16:43
DD	KZDCZSZA	/54073 00000/3600/22 250 1519 /170/308A SITE ID: 96530 **** 406 BEACON NO	07 SEP 2022 15:19	07 SEP 2022 15:19
DD	KZDCZSZA	/54071 00000/3600/22 250 1443 /170/308A SITE ID: 96530 **** 406 BEACON UNLOCATED	07 SEP 2022 14:43	07 SEP 2022 14:43

Save Reply Print

**** DETECTION TIME AND POSITIONS FOR THE BEACON ****

PROB EE SOL LATITUDE LONGITUDE DETECT TIME SAT NUM SOURCE SRR / BUFFER / BUFF_2
N/A N/A U N/A 07 143938 SEP C14 001 CMCC AKRCC

DETECTION FREQUENCY: NOT AVAILABLE

**** BEACON ID CONTAINS THE FOLLOWING ENCODED INFORMATION ****

COUNTRY : USA BEACON TYPE: ELT SERIAL (STANDARD)
COUNTRY CODE: 366 CRAFT ID : SPECIFIC BEACON:
MANUFACTURER: TAC 212 MODEL:
SERIAL NUM : 7619 HOMING : 121.5 MHZ
POSITION DEVICE: EXTERNAL POSITION RESOLUTION: NONE

**** BEACON REGISTRATION DATABASE INFORMATION ****

OWNER: Greg Fischer
6861 MacBeth Drive TEL 1: HOME +1 907-227-2644
Anchorage AK TEL 2: CELL +1 907-227-2644
99516 USA TEL 3:
TEL 4:
EMAIL: gfisher185@gmail.com

CONTACTS: Teresa Imm Greg Fischer
TEL 1: HOME +1 907519057 TEL 1: CELL +1 907-227-2644
TEL 2: CELL +1 907-519-5057 TEL 2:
TEL 3: TEL 3:
TEL 4: TEL 4:

LEASING AGENT:

AIRCRAFT MANUFACTURER/MODEL: PIPER / PA-18
AIRCRAFT USE: Single-engine Propeller COLOR: Blue and White
RADIO EQP: VHF CAPACITY: 2
TAIL NUMBER: N4151Z

FIXED SURVIVAL CRAFT DESCRIPTION:

DEPLOYABLE SURVIVAL CRAFT DESCRIPTION:

AIRPORT PRIMARY SRR: AKRCC SECONDARY SRR:
AIRPORT: Lake Hood ANCHORAGE AK

MANUFACTURER: ACK MODEL NUMBER: E-04 ELT

DATE FIRST REGISTERED: 26 JUL 2013 DATE REG EXPIRES: 13 MAY 2023
DATE LAST UPDATED: 13 MAY 2021

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AISR

"That Others May Live"

AISR Messages — 104-60631

Folder List
PAEDYCYX
Inbox (0/0)
Deleted Items (57/62)
085-58229 (0/0)
086-58230 (0/0)
087-58429 (0/0)
088-58435 (0/0)
090-58459 (0/0)
091-58983 (2/9)
093-59306 (0/9)
094-59507 (0/3)
097-59722 (0/6)
098-59762 (0/3)
099-59965 (0/4)
100-60135 (0/5)
102-60426 (0/5)
103-60625 (0/4)
104-60631 (0/4)
105-60650 (0/10)
106-60871 (0/3)
107-61046 (0/5)
108-61136 (5/19)
109-61165 (15/28)
110-61198 (0/6)
111-61213 (4/31)
112-61218 (0/4)
113-61229 (0/4)
114-61561 (1/5)

Create Folder
Manage Folders
Archived Messages
Auto Print

104-60631 Search Text Search

	From	Subject	Date/Time	Read Time (UTC)
DD	KZDCZSZA	/99792 00000/3660/26 091 2335 /176/366A SITE ID: 60631 **** 406 BEACON NO	01 APR 2026 23:36	01 APR 2026 23:46
DD	KZDCZSZA	/99788 00000/3660/26 091 2205 /176/366A SITE ID: 60631 **** 406 BEACON NO	01 APR 2026 22:05	01 APR 2026 22:06
DD	KZDCZSZA	/99786 00000/3660/26 091 2129 /174/366A SITE ID: 60631 **** 406 BEACON POSITION	01 APR 2026 21:29	01 APR 2026 21:33
DD	KZDCZSZA	/99785 00000/3660/26 091 2128 /171/366A SITE ID: 60631 **** 406 BEACON INITIAL	01 APR 2026 21:28	01 APR 2026 21:29

**** DETECTION TIME AND POSITIONS FOR THE BEACON ****

PROB EE SOL LATITUDE LONGITUDE DETECT TIME SAT NUM SOURCE SRR /BUFFER/BUFF_2
N/A 003 D 61 13.6N 149 50.1W 01 212741 APR MEO 006 HI-MEO AKRCC

DETECTION FREQUENCY: 406.0370 MHZ
FIRST DETECT TIME: 01 212741 APR
ALTITUDE OF DOA POSITION: 51 METRES. CAUTION: NOT VALIDATED

**** BEACON ID CONTAINS THE FOLLOWING ENCODED INFORMATION ****

COUNTRY : USA BEACON TYPE: ELT 24 BIT ADDRESS (STD)
COUNTRY CODE: 366 CRAFT ID : N64012 SPECIFIC BEACON:
MANUFACTURER: MODEL :
24 BIT ADDR : HEX-A867D1 HOMING : 121.5 MHZ
POSITION DEVICE: EXTERNAL POSITION RESOLUTION: NONE
AIRCRAFT 24 BIT ADDRESS ASSIGNED TO UNITED STATES

1 IHDB record(s) found, most recent: 2025-08-28

**** BEACON REGISTRATION DATABASE INFORMATION ****

REGISTRATION INFORMATION IS NOT AVAILABLE IN THE USMCC DATABASE

**** SUPPORTING INFORMATION ****

USMCC PROCESSING TIME: 01 2128 APR

THIS ALERT MESSAGE IS BEING SENT TO:
AFRCC,AKRCC

ALERT MESSAGES FOR THIS SIGNAL PREVIOUSLY SENT TO:
AFRCC

PREVIOUS MESSAGE INFORMATION:

PROB EE SOL LATITUDE LONGITUDE DETECT TIME SAT NUM SOURCE SRR /BUFFER/BUFF_2
N/A N/A U N/A 01 212741 APR MEO 002 FMCC AFRCC

QQQQ
/LASSIT
/ENDMSG

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CIVIL AIR PATROL

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NRAT (NATIONAL RADAR ANALYSIS TEAM)

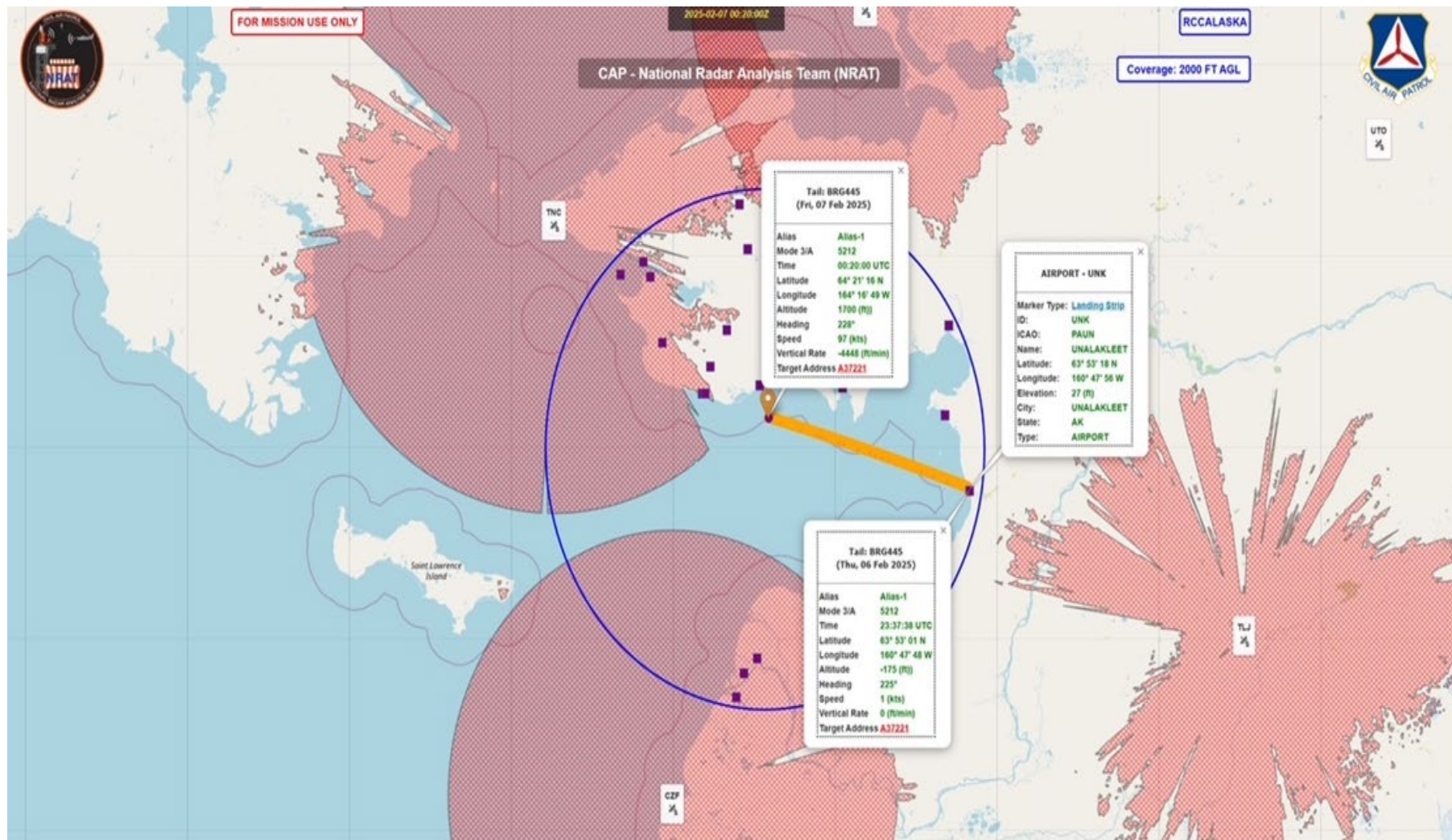
- The team is activated by the Alaska Rescue Coordination Center (AKRCC) when there is a report of a possible missing aircraft or crash. Once the team is activated, analysis and actionable data can be provided in minutes; instead of days or hours.
- Not located in Alaska, not 24 hour ops.
- 380 Radars and ADS-B data stretching from Hawaii, to Alaska to Bermuda.
- Data archived for up to 30 days.





CAP NRAT

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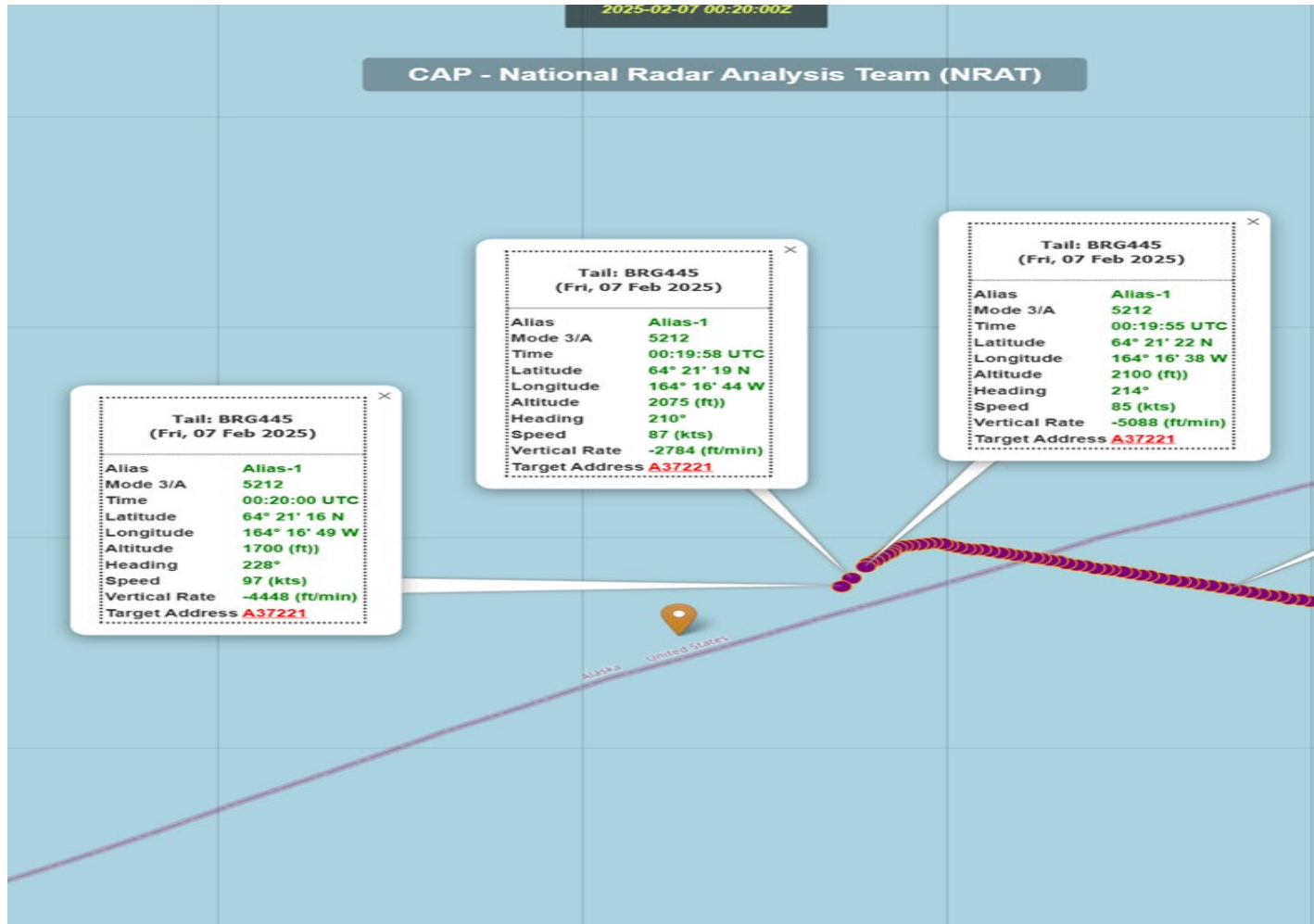


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CAP NRAT

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Aireon

"That Others May Live"

- Used for aircraft tracking, utilizing satellite-based receivers to monitor the existing 1090MHZ ADS-B transmissions of aircraft.
- ADS-B equipped aircraft transmit short data packets containing identification, position and other information.
- Able to overlay data into Google earth maps to aid in search data.
- Requires Tail number or call sign based on what the aircraft files for flight plan.





Aireon

"That Others May Live"



AireonPORTAL™ | Locate

UTC: 2025-05-13 01:37:57



This is **Aireon Locate**, the premier tool for global aviation search and

Search by: ICAO 24-bit address (hex code) or Aircraft ID 

N91025

 Search

Search Results

ICAO	AC9967
Aircraft ID	N91025
Mode 3/A	1200

Latitude, Longitude	59.63953, -151.48711
Altitude (feet)	0
Date Time	2025-05-09 17:25:00

[Generate Report](#) 

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Aireon in Rescue

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GARMIN INREACH/GRC

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- SOS message with your GPS coordinates to Garmin Response Center (GRC), 24/7-staffed Garmin Response Center. Located in Houston,TX.
- GRC will notify Alaska State Troopers who will notify AKRCC.
- AKRCC will utilize coordinates to direct crews to location, and establish two-way communication to collect data and pass information, if needed.
- AKRCC can make an information request to GRC for last known position of any Garmin device a missing individual may have.



Alaska Rescue Coordination Center

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Survival



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Survival

"That Others May Live"

- **OVERVIEW**
- **COMMUNICATE**
- **SURVIVE**
- **SIGNAL**
- **COMMON MISUNDERSTANDINGS ABOUT RESCUE**





Overview

“That Others May Live”

- Be prepared to answer three questions.
 - How do I make sure somebody knows I need help? (Communicate)
 - How do I survive until help arrives? (Survive)
 - How do I make sure they can find me? (Signal)



Communicate

"That Others May Live"

- ELT (Calls for help when you can't.)
 - 406 preferred, 121.5 is better than nothing.
- Have been known to fail due to...
 - Damage on impact (Crushed, submerged, disconnected)
 - Antenna broken on impact
 - Crash in a valley or near obstruction that delays satellite view
- ELTs need to be properly registered
 - Outdated registration data has delayed rescue by hours.
- Aviation Tracking System (Spidertracks, SPOT, etc.)
 - Make sure an emergency contact knows how to access this data
- Satellite Communication (InReach, Apple SOS, SAT Phone)
 - Let's you know that help is coming
- If nothing else, tell somebody where you're going, when you're coming back, and when they should start calling for help.



Survive

“That Others May Live”

Sec. 02.35.110. Emergency rations and equipment. (a) An airman may not make a flight inside the state with an aircraft unless emergency equipment is carried as follows: (1) the following minimum equipment must be carried during the summer months:

- (A) rations for each occupant sufficient to sustain life for one week;
- (B) one axe or hatchet;
- (C) one first aid kit;
- (D) an assortment of tackle such as hooks, flies, lines, and sinkers;
- (E) one knife;
- (F) fire starter;
- (G) one mosquito headnet for each occupant;
- (H) two small signaling devices such as colored smoke bombs, railroad fuses, or Very pistol shells, in sealed metal containers



Survive

“That Others May Live”

(2) in addition to the equipment required under (1) of this subsection, the following must be carried as minimum equipment from October 15 to April 1 of each year:

- (A) one pair of snowshoes;
- (B) one sleeping bag;
- (C) one wool blanket or equivalent for each occupant over four.

(b) Notwithstanding (a) of this section, operators of multi-engine aircraft licensed to carry more than 15 passengers need carry only the food, mosquito nets, and signaling equipment at all times other than the period from October 15 to April 1 of each year, when two sleeping bags, and one blanket for every two passengers shall also be carried.



Signal

“That Others May Live”

- Recommend redundant methods
 - Flares can notify passing aircraft of a distress situation and get rescue crews to your general area.
 - Smoke contrasts against the surrounding terrain when crews are within line of sight.
 - Signal mirrors can catch aircrew attention through thick foliage.
- Establish passive signals as well in case of sleep or loss of consciousness.
 - Symbol made of high vis fabric in view of the sky
- The night can be your friend
 - Fires and lights can be seen from miles away by an NVG-equipped aircrew
 - Don't hide at night.



Common Misunderstandings

"That Others May Live"

- Your ELT is not a guarantee
- With no known signs of distress, its often three hours or more from the time you're reported overdue until a rescue crew can launch to begin a search
- The adrenaline of a crash often masks serious injuries
- The weather has a vote
- There is no cost to the survivor associated with an AKRCC rescue
- We will launch crews to investigate reported wreckage, so please notify us if you crash and self-recover.



"That Others May Live"

Questions?

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