

Headquarters CONR–AFNORTH (1 AF)

Air Force Rescue Coordination Center Mission Brief



**Mr. Dan Conley, Operations Chief
Air Force Rescue Coordination Center**

**This Briefing is:
UNCLASSIFIED**



Overview



International SAR system

Mission and Authority

Organization

Operations



International SAR Organization



Governing Agency

ICAO / IMO (UN agencies)

- International Civil Aviation Organization
 - International Maritime Organization
-

National SAR Committee (NSARC)

- DHS – USCG Chair (1-Star)
- Commerce – NOAA
- Interior – NPS
- Defense – DPMO / AFRCC
- NASA – SAR Mission Mgt
- FCC – Wireless Division

Guidance

IAMSAR Manual (2008)

- International Standards
 - Requires National Policy
-

National SAR Plan (2007)

- Defines civil SAR authorities and responsibilities

National SAR Supplement (2000)

- Catastrophic SAR (CIS)
- **Inland SAR Addendum**
- Maritime Addendum



AFRCC Charter



“The **US Air Force** is designated as the SAR Coordinator for the recognized aeronautical **SRR** corresponding to the continental U.S., other than Alaska.” – National SAR Plan

- Missing/overdue aircraft
- Inland emergency (distress) beacons
- Coord state requests for assistance (e.g. missing persons, MERCY)

No Tasking Authority -- “Ask for Assistance, Not Task”

Considerations when using DoD assets

- Legality
- Lethality
- Risk
- Cost
- Appropriateness
- Readiness



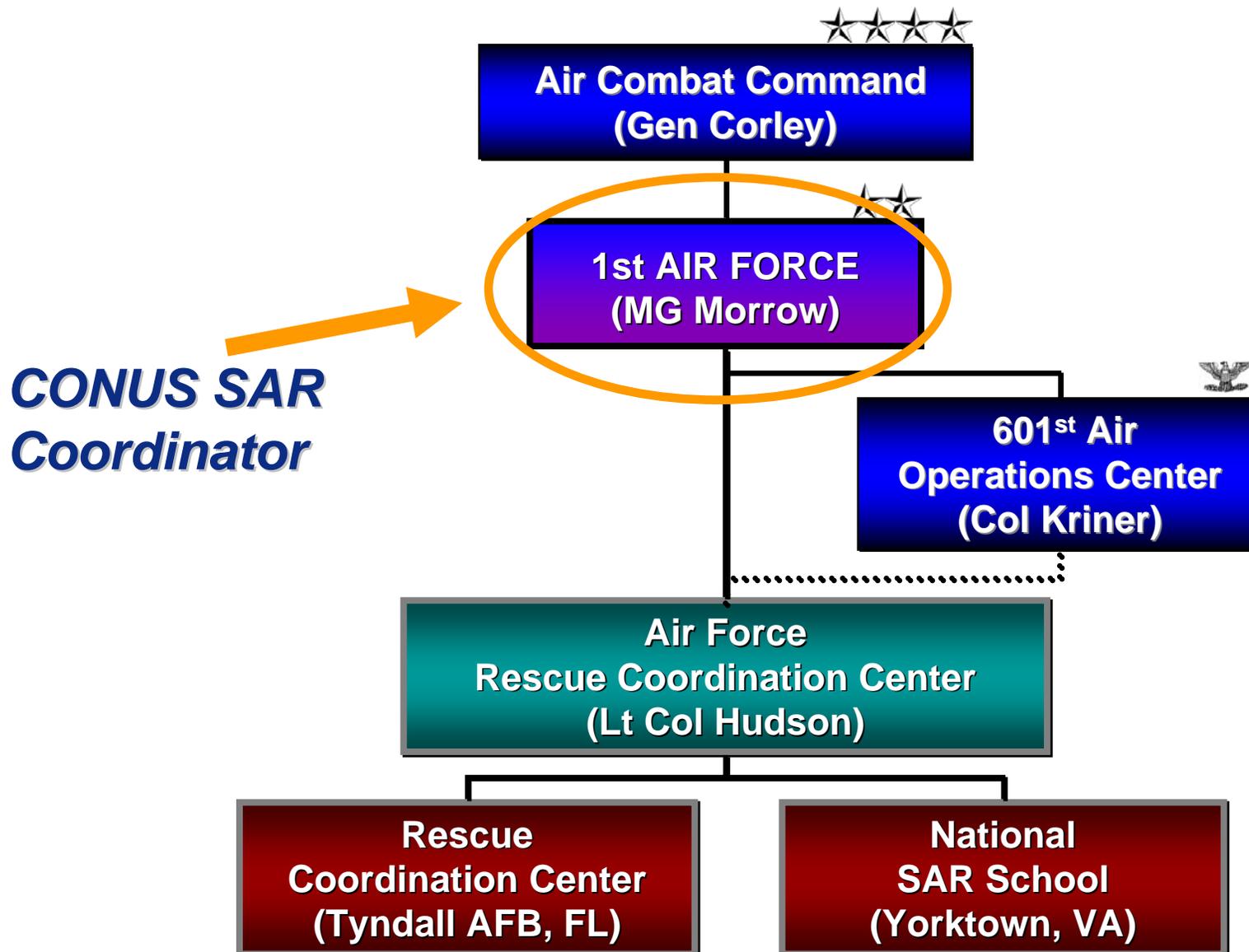
CIVIL SAR FACTS



- **AFRCC Coordinates Federal SAR services in CONUS**
 - Federal (National Park Service, Coast Guard RCCs)
 - States (CONUS only)
 - International (Canada and Mexico)
- **Local, state, tribal SAR organizations are the first responders to day-to-day SAR events within the U.S.**
 - **Designated State SAR Coordinators** will **request Federal SAR assistance** when overwhelmed or require specialized capability
 - AFRCC coordinate all federal assistance

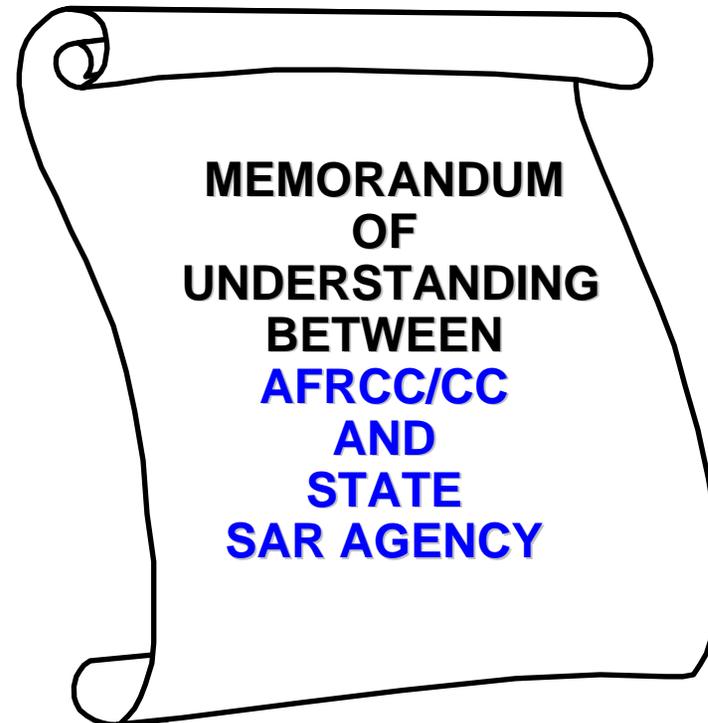
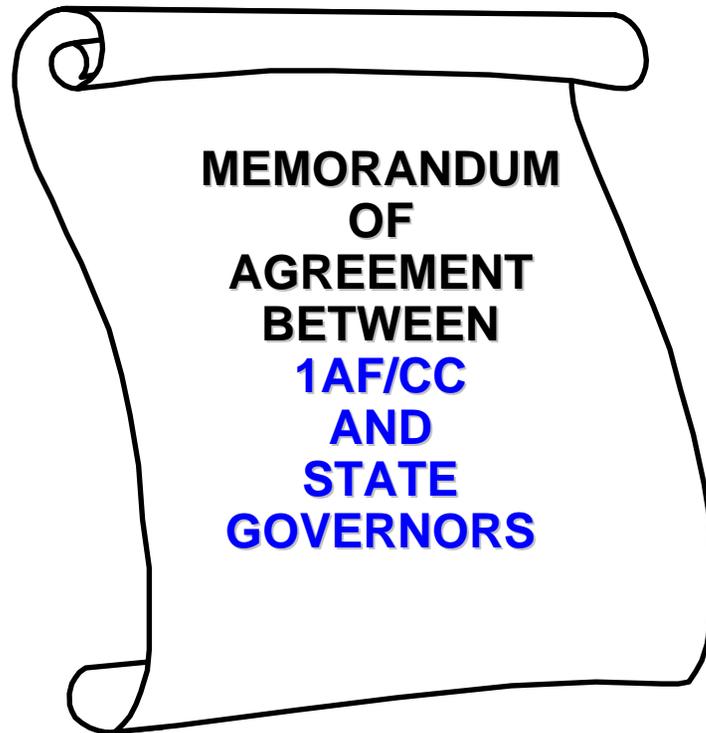


Chain of Command





National SAR Responsibilities



- Legal Agreement between **SAR Coordinator** and each **State Governor**
- Operational document between **AFRCC/CC** & each **State SAR agency**
(Dictates day-to-day CONUS SAR Operations)



AFRCC Manning (Assign/Auth)



	Officer	Enlisted	GS Civilian	TOTAL
Active	10/11	19/19	3/3	31/33
IMA	6/6	5/6	--	11/12

Personnel Mix

- **Rated leadership (CC/DO/SAR School Chief)**
- **Officers (86P0): Career broadening**
- **Enlisted (1C3X1): C2 Specialists; Special Duty coded**

Training

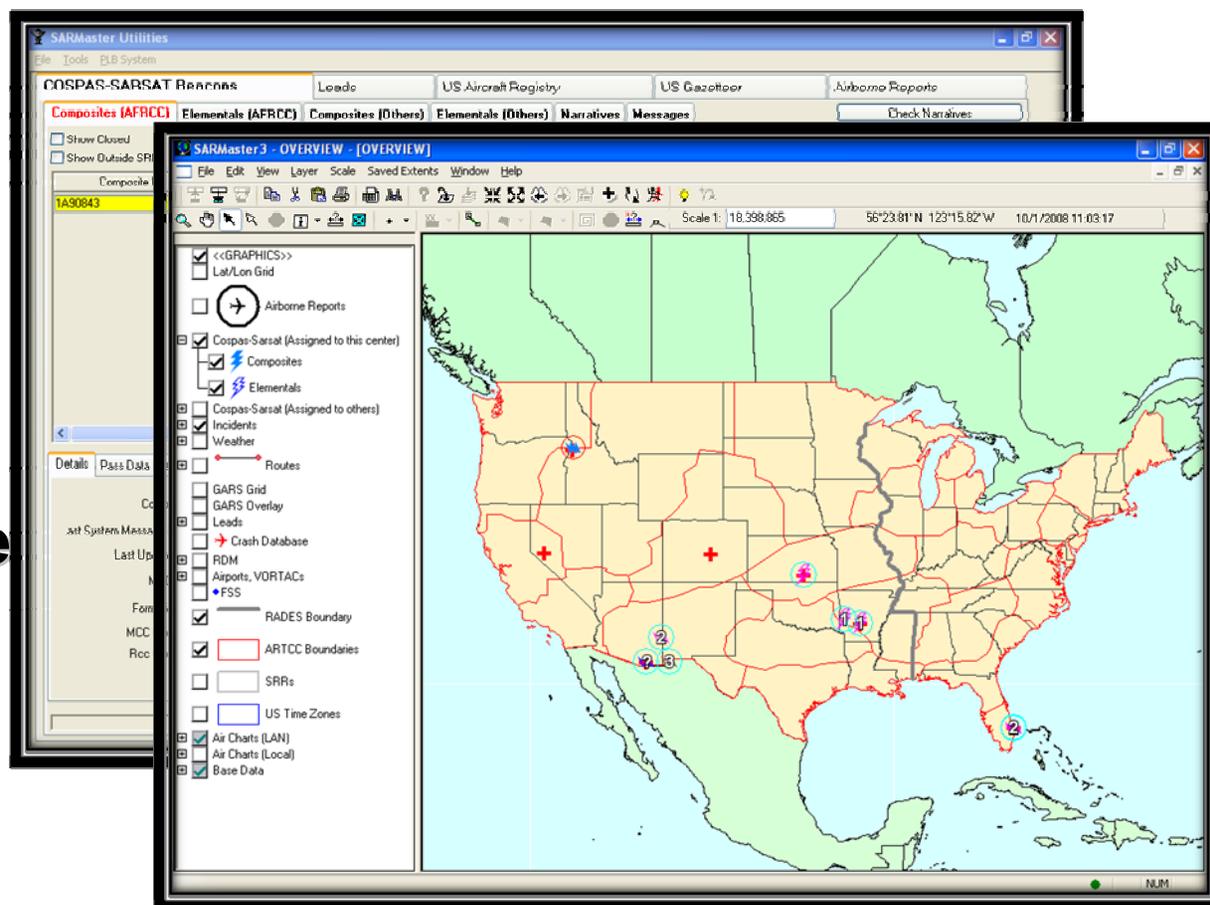
- **Civil SAR Qualification**
 - **Civil SAR Qualification Training (in house): ~ 3 months**
 - **Inland SAR Planning Course: 1 week**
- **Combat Mission Qualification**
 - **IQT: AOCIQT- PR: 5 weeks**
 - **MQT: PR-102, PR-120, FEMA DSCA courses (5 x CBTs)**



SARMASTER



- Automated SAR Mission Management System
- Real-time automated receipt of SARSAT emergency beacon detections
- Mission Log
- Search Planning
- Contacts
- Asset Tracking
- Survival Model
- Objective Info
- Activity database





US SAR Advocacy

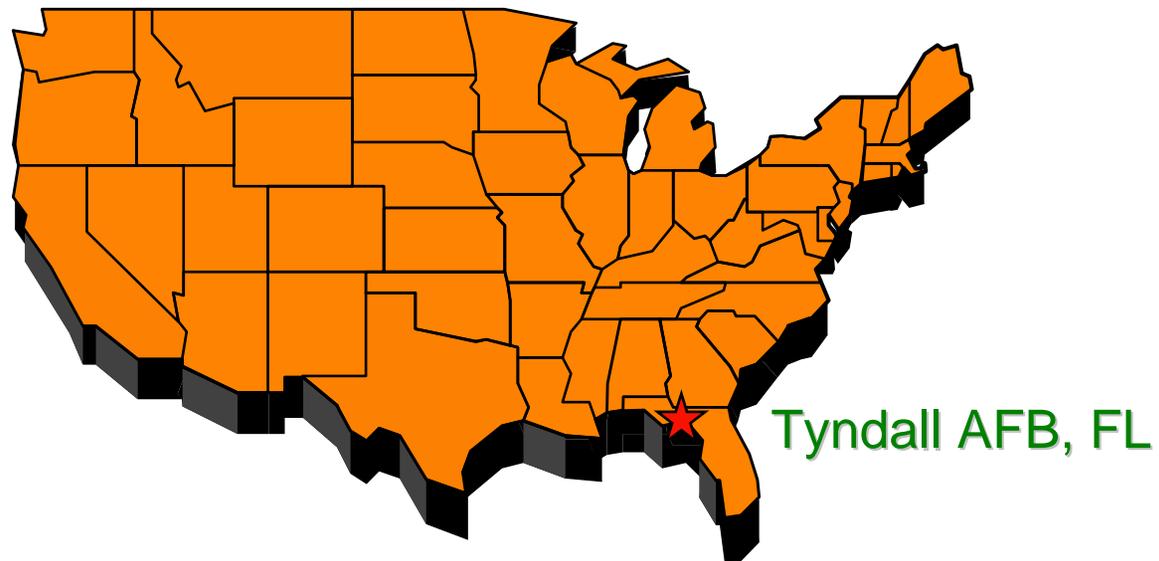


- **DoD advisor to National Search and Rescue Committee**
- **SARSAT Program Steering Group/Joint Working Group**
- **NSARC Working Groups -- R&D, Mass Rescue, and Preventive SAR**
- **NSARC 121.5/243.0 Beacon Phase-out Working Group**
- **ICAO-IMO Joint SAR Working Group (Vice-Chairman)**
- **Government Interface track lead for annual NASAR Conference**
- **National Crash Locator**
- **United States PLB Program Manager**
- **DASS Program Lead**

All required under NSP, NSARC, DoD Directive, or SARSAT interagency agreement



SINGLE FEDERAL AGENCY FOR AERONAUTICAL SEARCH AND RESCUE IN THE INLAND AREA OF THE UNITED STATES





Contact Us



Commander – Lt Col Jed Hudson

Director of Operations – Lt Col Clifton Hicks

AFRCC Console (24/7 ops for civil SAR)

DSN 523-5955 / Comm 1-800-851-3051

Email: afrcc.console@tyndall.af.mil

<http://www.1af.acc.af.mil/units/afrcc/>

JPRC Console (Contingency Only)

DSN: 523-5743/4 Comm: 1-877-430-0781

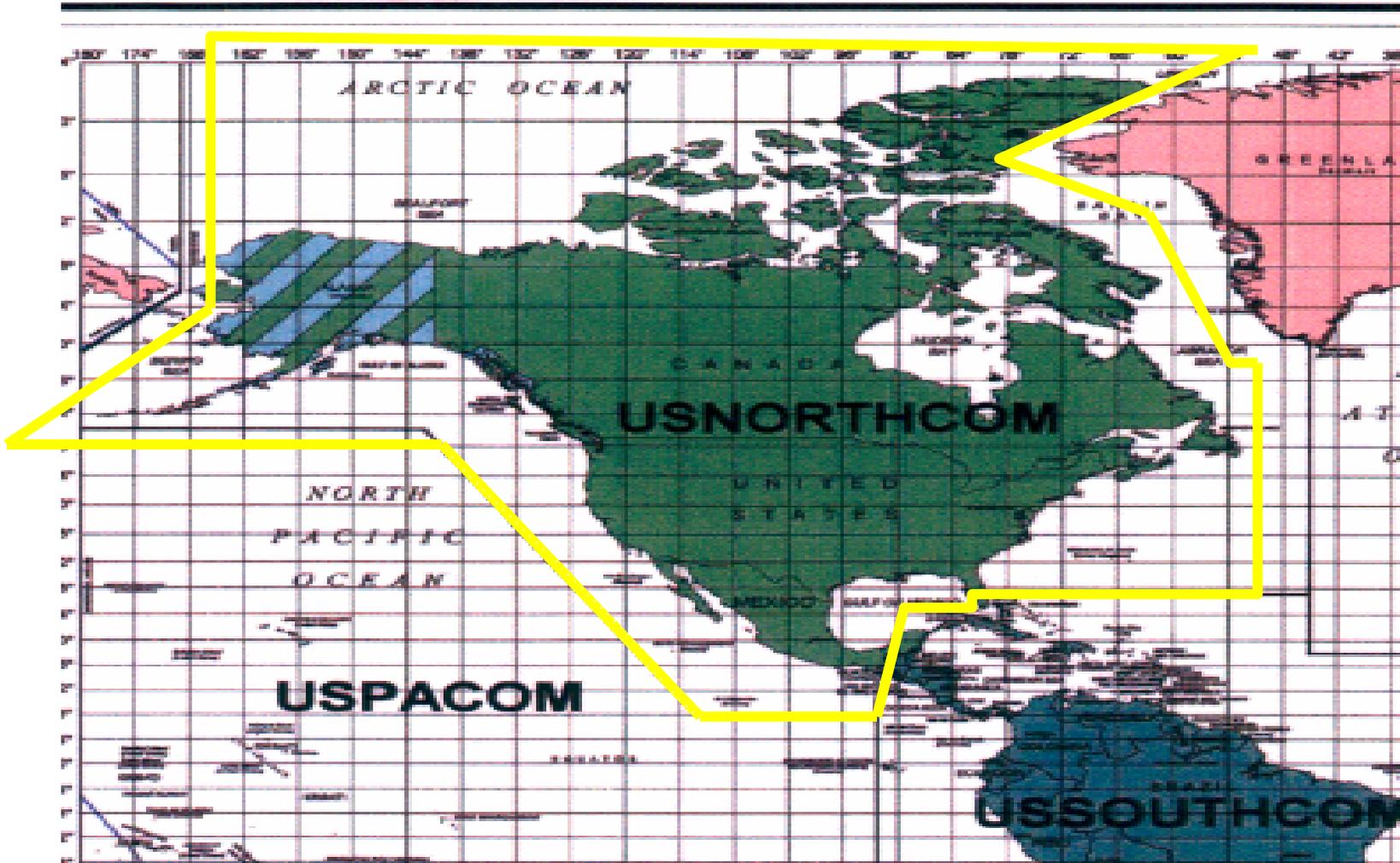
Email: 601AOC.JPRC@tyndall.af.mil

<https://operations.noradnorthcom.mil/sites/AFNORTH/601AOC/JPRC>





USNORTHCOM (AOR)

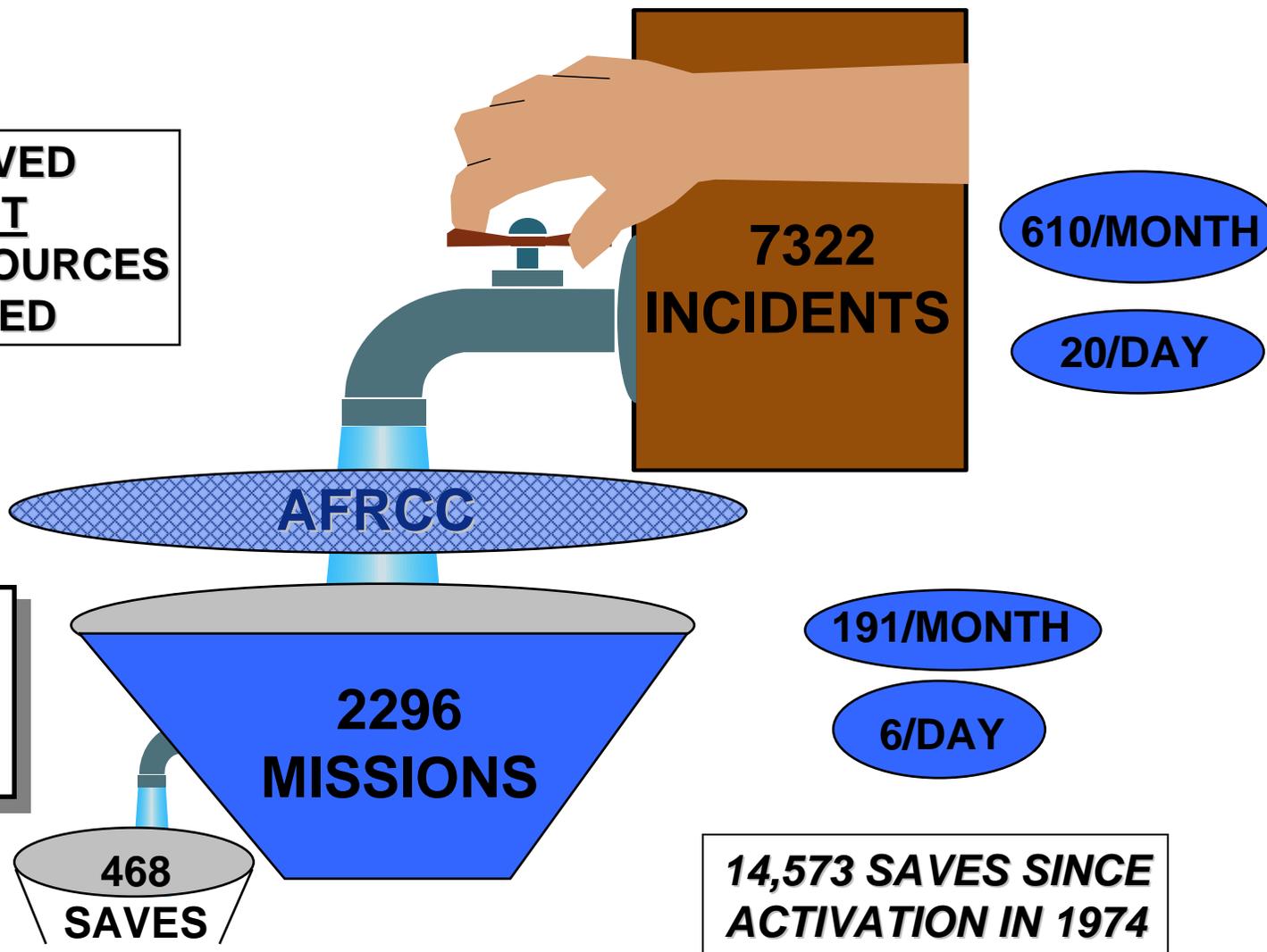




2007 MISSION ACTIVITY



**~69% SOLVED
WITHOUT
FEDERAL RESOURCES
COMMITTED**



**1.3 LIVES
EVERY
DAY**



2008 Mission Activity



**~68% SOLVED
WITHOUT
FEDERAL RESOURCES
COMMITTED**



20/DAY



6/DAY

**1 LIFE
EVERY
2 DAYS**



**OVER 14,754 SAVES SINCE
ACTIVATION IN 1974**



2007 CAP SAR MISSION ACTIVITY



- **CY 07 CAP SAR**
 - Missions: 2190
 - Personnel: 18,928
 - Aircraft Used: 1894
 - Sorties: 2766
 - Flt Hours: 6230
 - Saves: 77

- CAP actively involved in **95%** of all AFRCC missions





AFRCC / CAP Joint Projects



- Wing Mission Information Reporting System (WMIRS)
 - Nation-wide alerting
 - Auto generated mission report (CAP Form 122)
 - Monitor daily resource status
 - Common Operating Picture (COP)
- Cell Phone Triangulation
 - Develop SOPs
 - Develop CAP Training Module
- Radar Forensics
 - Develop SOPs
 - Develop USAF/CAP Training Module
 - Future Capability within 601 AOC





National SAR School



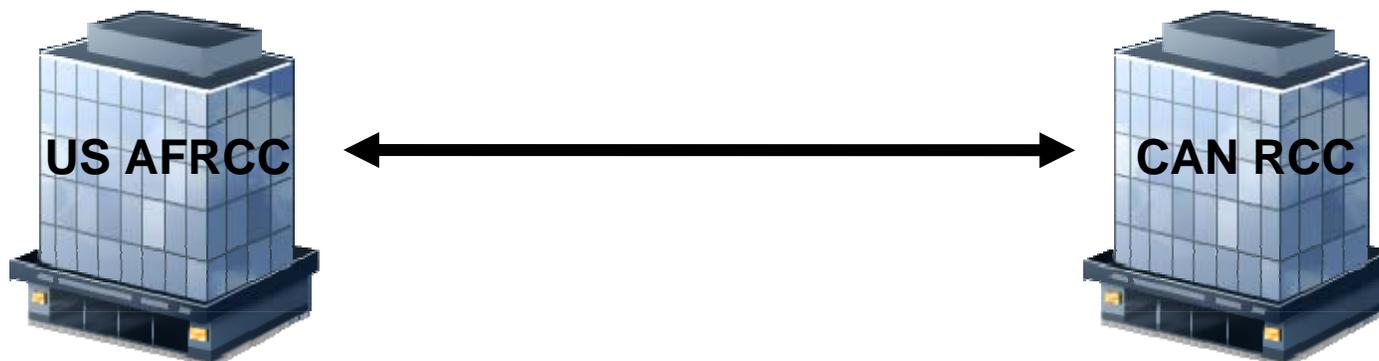
“To promote standardization and professionalism within the search and rescue community by providing comprehensive SAR training to selected Coast Guard, Air Force and other personnel.”



International Coordination **CANADA**



- **Cooperative Coordination between RCCs**
 - **Direct Liaison Authorities**
 - **For international incidents – courtesy brief to State Department**





International Coordination **MEXICO**



- **Cooperative Coordination**
 - Request to State Department from Mexican Government
 - State Department (Consulate) to AFRCC
 - Mexican RCC to AFRCC
 - AFRCC back to Mexican Consulate
- Who and how many can enter Mexican airspace?
- Discussions underway for Memorandum



Notable AFRCC Mission - John F. Kennedy Jr



Kennedy's intended route

A plane piloted by John F. Kennedy Jr. carrying his wife and her sister disappeared Friday night en route to Martha's Vineyard.



AP / MSNBC



CASE STUDY – N2006S



- **N2006S – Taylorcraft F-21A**
- **Flight – Pullman Airport, Eastern Washington to Slate Creek Airport, Slate Creek, Idaho**
- **1 POB**
- **Located short of destination in water**
 - **Attempted to land on sand bar in river**
 - **Engine quit, nosed over and sank**
 - **Pilot saved with minor injuries**



Photo Copyright © Terry Shepherd

AIMLINES.NET



CASE STUDY



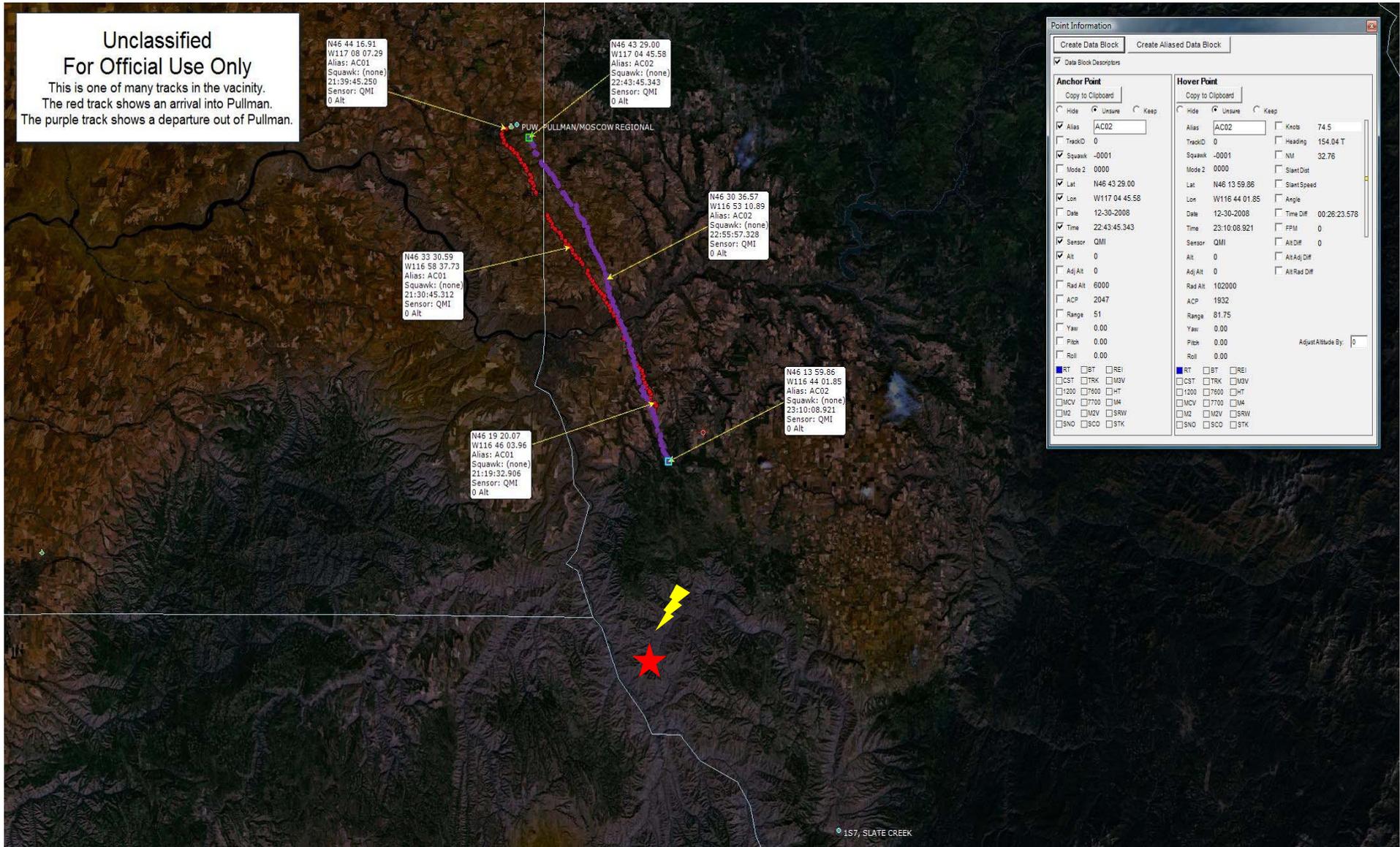
- **121.5 First Merge – 31/0341Z Dec 08**
 - Received by the AFRCC at 0359Z
- **Contacted Idaho DOA since they are in charge of ELTs**
- **Investigation begins**
- **Open mission with Civil Air Patrol 31/0445Z**
- **Informed by Idaho DOA of possible overdue aircraft from Eastern Washington State to Idaho**
- **Correlation of ELT confirmed 31/1017Z**
 - ELT and aircraft being investigated together prior to confirmation
- **Requested radar forensics 31/1028Z & 1046Z**
- **Received first radar data 31/1202Z**
- **Requested cell phone forensics 31/1325Z**



RADAR PICTURE



**Unclassified
For Official Use Only**
This is one of many tracks in the vicinity.
The red track shows an arrival into Pullman.
The purple track shows a departure out of Pullman.



Point Information

Create Data Block Create Aliased Data Block

Data Block Descriptors

Anchor Point		Hover Point	
Copy to Clipboard		Copy to Clipboard	
Hide	Unsure	Keep	Keep
<input checked="" type="checkbox"/> Alias	AC02	<input type="checkbox"/> Knots	74.5
<input type="checkbox"/> TrackID	0	<input type="checkbox"/> Heading	154.04 T
<input checked="" type="checkbox"/> Squawk	-0001	<input type="checkbox"/> NM	32.76
<input type="checkbox"/> Mode 2	0000	<input type="checkbox"/> Start Dist	
<input checked="" type="checkbox"/> Lat	N46 43 29.00	<input type="checkbox"/> Start Speed	
<input checked="" type="checkbox"/> Lon	W117 04 45.58	<input type="checkbox"/> Angle	
<input type="checkbox"/> Date	12-30-2008	<input type="checkbox"/> Time Diff	00:26:23.578
<input checked="" type="checkbox"/> Time	22:43:45.343	<input type="checkbox"/> FPM	0
<input checked="" type="checkbox"/> Sensor	QMI	<input type="checkbox"/> AltDiff	0
<input checked="" type="checkbox"/> Alt	0	<input type="checkbox"/> AltAdj Diff	
<input type="checkbox"/> Adj Alt	0	<input type="checkbox"/> AltRad Diff	
<input type="checkbox"/> Rad Alt	6000	<input type="checkbox"/> Rad Alt	102000
<input type="checkbox"/> ACP	2047	<input type="checkbox"/> ACP	1932
<input type="checkbox"/> Range	51	<input type="checkbox"/> Range	81.75
<input type="checkbox"/> Yaw	0.00	<input type="checkbox"/> Yaw	0.00
<input type="checkbox"/> Pitch	0.00	<input type="checkbox"/> Pitch	0.00
<input type="checkbox"/> Roll	0.00	<input type="checkbox"/> Roll	0.00

Adjust Altitude By: 0

RT BT REI
 CST TRK MSV
 1200 7600 HT
 MCV 7700 IM4
 M2 M2V SRW
 SNO S3CO STK



CASE STUDY



- **31/1550Z – Radar and cell phone forensics match information to location**
- **31/1652Z – Idaho DOA reports acft and pilot located in Salmon River, north of Slate Creek, ID.**
- **Demobilization**
- **Notifications**

- **ELT – 45 57.4N 116 09.8W**
- **Crash Site – 45 49.4N 116 18.3W**
- **1 SAVE**



QUESTIONS??