AFRCC Overview

SAR Controllers Workshop 2017
February 28 – March 2, 2017
Capt Kristen Chang
Senior Controller
Air Force Rescue Coordination Center
Overview

- Doctrinal Guidance
- SAR Responsibilities
- Civil SAR CONOPs
- Unique SAR Tools
- 2016 Mission Statistics
National SAR Responsibilities

• Legal Agreement between SAR Coordinator and each State Governor

MEMORANDUM OF AGREEMENT BETWEEN 1AF/CC AND STATE GOVERNORS

• Operational document between AFRCC/CC & each State SAR agency ( Dictates day-to-day CONUS SAR Operations)

MEMORANDUM OF UNDERSTANDING BETWEEN AFRCC/CC AND STATE SAR AGENCY
# AFRCC Flexfile

**MOU Dated:** July 2009

<table>
<thead>
<tr>
<th>DISTRESS</th>
<th>AGENCY OVERALL IN CHARGE</th>
<th>AFRCC ACTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aircraft</td>
<td>MD State Police</td>
<td>Coord with MD SP</td>
</tr>
<tr>
<td>Persons</td>
<td>MD State Police</td>
<td>Coord with MD SP</td>
</tr>
<tr>
<td>ALNOT</td>
<td>AFRCC</td>
<td>Coord with MD SP @ MSN</td>
</tr>
<tr>
<td>ELT/EPIRB</td>
<td>AFRCC</td>
<td>Coord with CAP</td>
</tr>
<tr>
<td>PLB</td>
<td>MD State Police</td>
<td>Coord with MD SP</td>
</tr>
<tr>
<td>Rescue/Medevac Mercy</td>
<td>AFRCC</td>
<td>Coord with MD SP</td>
</tr>
<tr>
<td>NAWAS</td>
<td>No Restrictions</td>
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</table>
AFRCC Responsibility

Area of Responsibility

- Coordinate federal inland commercial, military, and interstate aeronautical SAR in the contiguous U.S.
- Manage all inland beacon searches
- Assist states with non-aircraft missions

- States retain responsibility for SAR within their sovereign boundaries until they become overwhelmed or require specialized equipment
  - Requests for federal resources are made by the “Responsible Agency” within the state.

- Validate requests / broker for federal assistance
  - Save life, limb, eyesight, or prevent undue suffering
  - “Ask, don’t task” - no tasking authority
Chain of Command

NORTHCOM
(Gen Robinson)

1st AIR FORCE
(Lt Gen Williams)

Air Force
Rescue Coordination Center
(Lt Col Woosley)

Rescue Coordination Center
(Tyndall AFB, FL)

National SAR School
(Yorktown, VA)

Senior Controllers
Controllers

controllers
Additional Responsibilities

- National Search and Rescue School (Inland SAR)
- Basic Inland Search and Rescue Course (BISC)
- USAF advisor to OSD/DPMO (DoD) on National Search and Rescue Committee (NSARC)
- NSARC Working Groups
- Combat Search and Rescue (CSAR) support
- Support to foreign RCCs and COCOM JPRCs/PRCCs
- SARSAT Program Steering Group & Joint Working Gp
  - One of three primary funding agencies w/NOAA & USCG
- ICAO-IMO Joint SAR Working Group
- Federal interface lead for annual state/NASAR/CAP conference(s)
- National Crash Locator Database
- United States Personal Locator Beacon (PLB) Program
- CSEL Support Center (Tertiary world-wide)
- Distress Alerting Satellite System (DASS) Program

All required under ICAO/IMO Treaty, NSARC/NSP, DoD Directive, or SARSAT interagency agreement
AFRCC Civil SAR CONOPS

Event / Notification

- Non-Aircraft / Missing Person(s) Report
- Aircraft / Alert Notification (ALNOT)
- Distress Beacons / COSPAS/SARSAT System
- Other Rescue Coordination Centers (RCCs)

State and Local Authorities / First Responders

Air Force Rescue Coordination Center (AFRCC)

- Validate Request / Determine Authority / Identify Federal Support (As Needed)
- Coordinate Support (“Ask Not Task”)
- Monitor Incident / Mission Until Resolved
Unique Tools for Searchers

**Helos with FLIR/NVGs**
- Source – USAF, USA, AFRC, ANG, NG, CAP
- Results:
  - All Weather/Anytime Search

**Radar Forensics**
- Sources – USAF, FAA, & NHQ CAP
- Results:
  - Last Known Position (LKP)
  - Heading, Altitude, & Speed
  - Maneuvers

**Cell Phone Forensics**
- Source – NHQ CAP
- Results:
  - Recent Activity
  - Last Known Position (LKP)

**Confined Space/High Angle Rescue**
- Source – USAF, AFRC, ANG, NG
- Results:
  - Mountain-side rescue
  - Cave, water, collapsed structure search
Aircraft Searches

- Alert Methods
  - FAA
  - Family Concerns
  - Military Aircraft

- AFRCC Actions
  - Initial Investigation in coordination with FAA
  - Mission Initiation (Radar, Cell, Search Teams)
Radar Forensics
Radar Forensics
Cell Forensics

Red represents the sectors orientation

RADAR LKP as provided by AFRCC

Area outlined in green is the likely area the call was placed from (1004am CST 8-Feb-2012)

The orange band represents the 1.9 miles from the tower (± 0.5 miles)

Tower 1343
# Basic Inland SAR Course Dates for FY17

<table>
<thead>
<tr>
<th>Number</th>
<th>Dates</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>17-01</td>
<td>22-23 Oct 16</td>
<td>Camp Dawson, WV</td>
</tr>
<tr>
<td>17-02</td>
<td>19-20 Nov 16</td>
<td>Westover ARB, MA</td>
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<tr>
<td>17-03</td>
<td>28-29 Jan 17</td>
<td>Tucson, AZ</td>
</tr>
<tr>
<td>17-04</td>
<td>25-26 Feb 17</td>
<td>Fayetteville, NC</td>
</tr>
<tr>
<td>17-05</td>
<td>18-19 Mar 17</td>
<td>Hayward, WI</td>
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<tr>
<td>17-06</td>
<td>22-23 Apr 17</td>
<td>Kempton, PA</td>
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<tr>
<td>17-07</td>
<td>3-4 May 17</td>
<td>Laramie, WY</td>
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<tr>
<td>17-08</td>
<td>17-18 Jun 17</td>
<td>Dover AFB, DE</td>
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<tr>
<td>17-09</td>
<td>22-23 Jul 17</td>
<td>St. Johns, MI</td>
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<tr>
<td>17-10</td>
<td>19-20 Aug 17</td>
<td>Woodstock, MD</td>
</tr>
<tr>
<td>17-11</td>
<td>16-17 Sep 17</td>
<td>Valparaiso, IN</td>
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</table>
# National SAR School Dates for FY17

<table>
<thead>
<tr>
<th>Number</th>
<th>Dates</th>
<th>Location</th>
<th>App Deadline</th>
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<tbody>
<tr>
<td>17-01</td>
<td>24-28 Oct 16</td>
<td>TRACEN Yorktown, VA</td>
<td>12 Sep</td>
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<td>17-02</td>
<td>7-11 Nov 16</td>
<td>Glendale, AZ</td>
<td>26 Sep</td>
</tr>
<tr>
<td>17-03</td>
<td>5-9 Dec 16</td>
<td>Meridian, MS</td>
<td>24 Oct</td>
</tr>
<tr>
<td>17-04</td>
<td>9-13 Jan 17</td>
<td>Eugene, OR</td>
<td>28 Nov</td>
</tr>
<tr>
<td>17-05</td>
<td>6-10 Feb 17</td>
<td>Nashville, TN</td>
<td>19 Dec</td>
</tr>
<tr>
<td>17-06</td>
<td>20-24 Mar 17</td>
<td>Salt Lake City, UT</td>
<td>6 Feb</td>
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<td>17-07</td>
<td>10-14 Apr 17</td>
<td>Frankfort, KY</td>
<td>27 Feb</td>
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<td>17-08</td>
<td>1-5 May 17</td>
<td>Oriskany, NY</td>
<td>20 Mar</td>
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<tr>
<td>17-09</td>
<td>?? June 17</td>
<td>New Orleans, LA</td>
<td>Apr</td>
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<tr>
<td>17-10</td>
<td>17-21 July 17</td>
<td>Bismarck, ND</td>
<td>5 Jun</td>
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<td>17-11</td>
<td>21-25 Aug 17</td>
<td>Bloomington, IL</td>
<td>10 July</td>
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<tr>
<td>17-12</td>
<td>11-15 Sept 17</td>
<td>Little Rock, AR</td>
<td>31 July</td>
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## AFRCC WEEKLY SUMMARY

**TOTALS 25 – 31 JUL 16 CY2016**

<table>
<thead>
<tr>
<th>Category</th>
<th>Count 25–31 Jul 16</th>
<th>CY2016</th>
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<tbody>
<tr>
<td>Incidents</td>
<td>193</td>
<td>4584</td>
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<tr>
<td>Missions</td>
<td>28</td>
<td>513</td>
</tr>
<tr>
<td>Saves</td>
<td>14</td>
<td>174</td>
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</table>

**Incidents**
- **193**

**Missions**
- **28**

**Saves**
- **14**

**Search: 82 YOM Driver**
- Montrose County, CO
- CO CAP (ACFT)
- 1-Missing

**Search: Male Paraglider**
- Skagit County, WA
- NHQ CAP (RADAR/CELL)
- 1-Ongoing / 2-Missing

**Search: 15 YOM Hiker**
- Yakima, WA
- Yakima Training Facility (UH-60)
- 1-Save

**Search: 21 YOM Hiker**
- Marion County, OR
- NHQ CAP (CELL)
- 1-Assist / 1-Missing

**Search: 36 YOM Hiker**
- Clallam County, WA
- NAS Whidbey (MH-60)
- 1-Assist / 1-Missing

**Search: 36 YOM Hiker**
- Deschutes County, OR
- Support Request Cancelled

**Search: 82 YOM Driver**
- Montrose County, CO
- CO CAP (ACFT)
- 1-Missing

**Search: 15 YOF Hiker**
- Placer County, CA
- NAS Fallon (MH-60)
- 1-Missing

**Search: 406 PLB: Injured Motocyclist**
- Idaho County, ID
- Idaho CO SAR
- Life Flight
- 1-Save

**Search: 406 PLB: Male Hiker**
- Sublette County, WY
- Sublette CO SAR
- 1-Save

**Search: 406 PLB: Injured 24 YOM Hiker**
- Clear Creek County, CO
- HAATS (UH-60)
- 1-Save

**Search: 51 YOM Camper**
- Morrison County, MN
- MN Cap (80XGND/1XLIGHT ACFT)
- 1-Save

**Search: Missing Boater**
- Lake Erie, Canada
- NHQ Cap (CELL)
- 1-Missing

**Search: Female Swimmer**
- Teton County, WY
- Wy Cap (Light ACFT)
- 1-Non-Distress

**Search: 4 Missing Boaters**
- Gulf of Mexico
- NHQ Cap (CELL)
- 4-Saves

**Search: 21 YOM Hiker**
- Oregon County, OR
- OR Cap
- 1-Onngoing

**Search: 15 YOF Hiker**
- Placer County, CA
- NAS Fallon (MH-60)
- 1-Missing

**Search: 16 YOM Hiker**
- Larimer County, CO
- NHQ Cap (RADAR)
- 1-Save

**Search: 15 YOM Hiker**
- Yakima CO, WA
- Yakima Training Facility (UH-60)
- 1-Save

**Search: 16 YOM Hiker**
- Larimer County, CO
- NHQ Cap (CELL)
- Life Flight
- 1-Save

**Search: 36 YOM Hiker**
- Clallam County, WA
- NAS Whidbey (MH-60)
- 1-Assist

**Search: 36 YOM Hiker**
- Deschutes County, OR
- Support Request Cancelled

**Search: 21 YOM Hiker**
- Marion County, OR
- NHQ Cap (CELL)
- 1-Assist

**Search: Missing Boater**
- Bahamas, Atlantic Ocean
- NHQ Cap (CELL)
- 1-Non-Distress

**Search: 4 Missing Boaters**
- Gulf of Mexico
- NHQ Cap (CELL)
- 4-Saves

**Search: 15 YOM Hiker**
- Yakima CO, WA
- Yakima Training Facility (UH-60)
- 1-Save

**Search: Injured Male Hiker**
- Hinsdale County, CO
- Support Request Cancelled

**Search: Injured Male Hiker**
- Hinsdale County, CO
- HAATS (UH-60)
- Support Request Cancelled

**Search: Injured Male Hiker**
- Larimer County, CO
- NHQ Cap (CELL)
- Life Flight
- 1-Save

**Search: Injured 24 YOM Hiker**
- Clear Creek County, CO
- AASF Buckley (UH-60)
- Support Request Cancelled

**Save / Non-distress**

**Ongoing / Missing**

**Deceased**
2016 Mission Activity

Busiest RCC in the World

~90% SOLVED WITHOUT FEDERAL RESOURCES COMMITTED

1 LIFE EVERY 1.03 DAYS

AFRCC

969 MISSIONS

354 SAVES

7936 INCIDENTS

22/DAY

2.7/DAY

OVER 16,672 SAVES SINCE ACTIVATION IN 1974

UNCLASSIFIED

18
2016 Mission Activity

<table>
<thead>
<tr>
<th>Year</th>
<th>Incidents</th>
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<tbody>
<tr>
<td>2013</td>
<td>6010</td>
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<tr>
<td>2014</td>
<td>6603</td>
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<tr>
<td>2015</td>
<td>7293</td>
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<tr>
<td>2016</td>
<td>7936</td>
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2016 Mission Activity

<table>
<thead>
<tr>
<th>Year</th>
<th>2013</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
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<tbody>
<tr>
<td>Missions</td>
<td>660</td>
<td>654</td>
<td>797</td>
<td>969</td>
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</table>
2016 Mission Activity

Year | 2013 | 2014 | 2015 | 2016
--- | --- | --- | --- | ---
Saves | 171 | 212 | 244 | 354
2016 Mission Activity

<table>
<thead>
<tr>
<th>Year</th>
<th>2013</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
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<tbody>
<tr>
<td>Missions</td>
<td>660</td>
<td>654</td>
<td>797</td>
<td>969</td>
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<tr>
<td>Incidents</td>
<td>6010</td>
<td>6603</td>
<td>7293</td>
<td>7936</td>
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<tr>
<td>Saves</td>
<td>171</td>
<td>212</td>
<td>244</td>
<td>354</td>
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# 2016 Mission Activity

<table>
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<tr>
<th>TOTALS</th>
<th>CY 2016</th>
<th>CY 2015</th>
<th>CY 2014</th>
<th>CY 2013</th>
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<tr>
<td>Incidents</td>
<td>7936</td>
<td>7293</td>
<td>6603</td>
<td>6010</td>
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<td>9%</td>
<td>9%</td>
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<td>32%</td>
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<tr>
<td>Missions</td>
<td>969</td>
<td>797</td>
<td>654</td>
<td>660</td>
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<td>22%</td>
<td>22%</td>
<td>48%</td>
<td>47%</td>
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<tr>
<td>Saves</td>
<td>354</td>
<td>244</td>
<td>212</td>
<td>171</td>
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<td>45%</td>
<td>45%</td>
<td>67%</td>
<td>107%</td>
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Summary

- Doctrinal Guidance
- SAR Responsibilities
- Civil SAR CONOPs
- Unique SAR Tools
- 2016 Mission Statistics
Points of Contact

• AFRCC Console (24/7 ops)
  DSN 523-5955 / Comm  800-851-3051 or 850-283-5955
  http://www.1af.acc.af.mil/units/afrcc/

• Commander
  – Lt Col James Woosley (DSN 523-5029)

• Director of Operations
  – Lt Col Evan Gardner (DSN 523-5084)