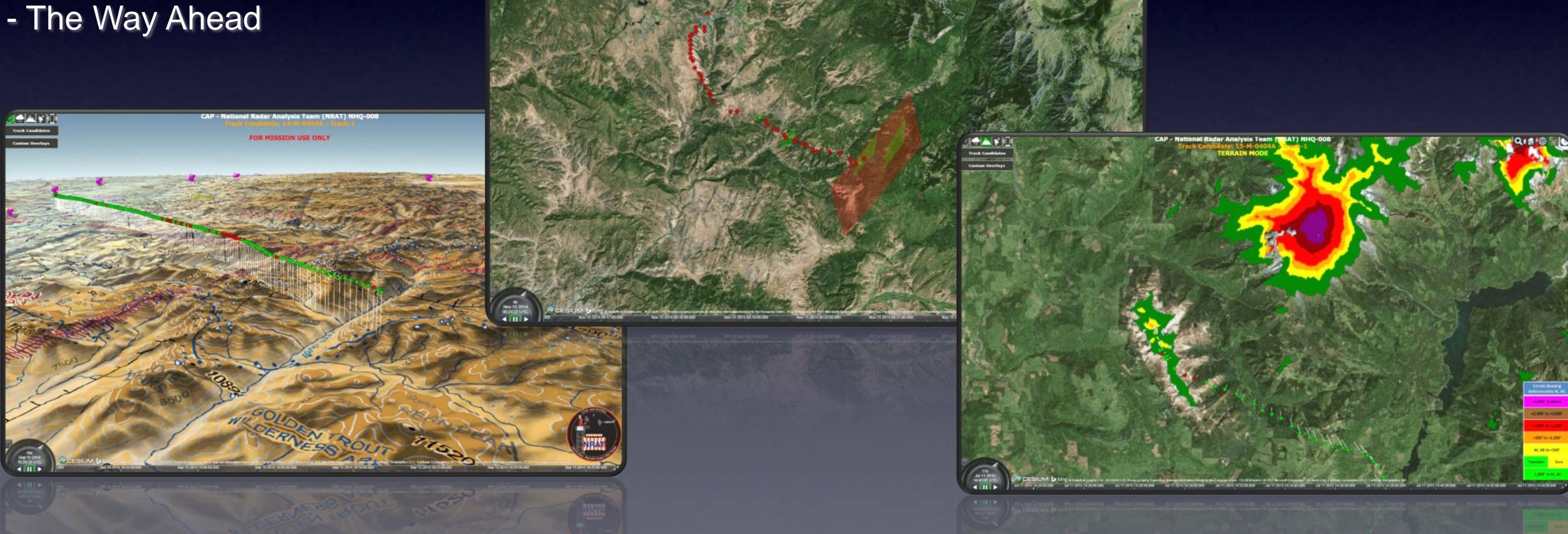


Saving Lives Through Innovation

- The Team Goals 2017 Update

- Accomplishments

Presented By: LtCol. John Henderson





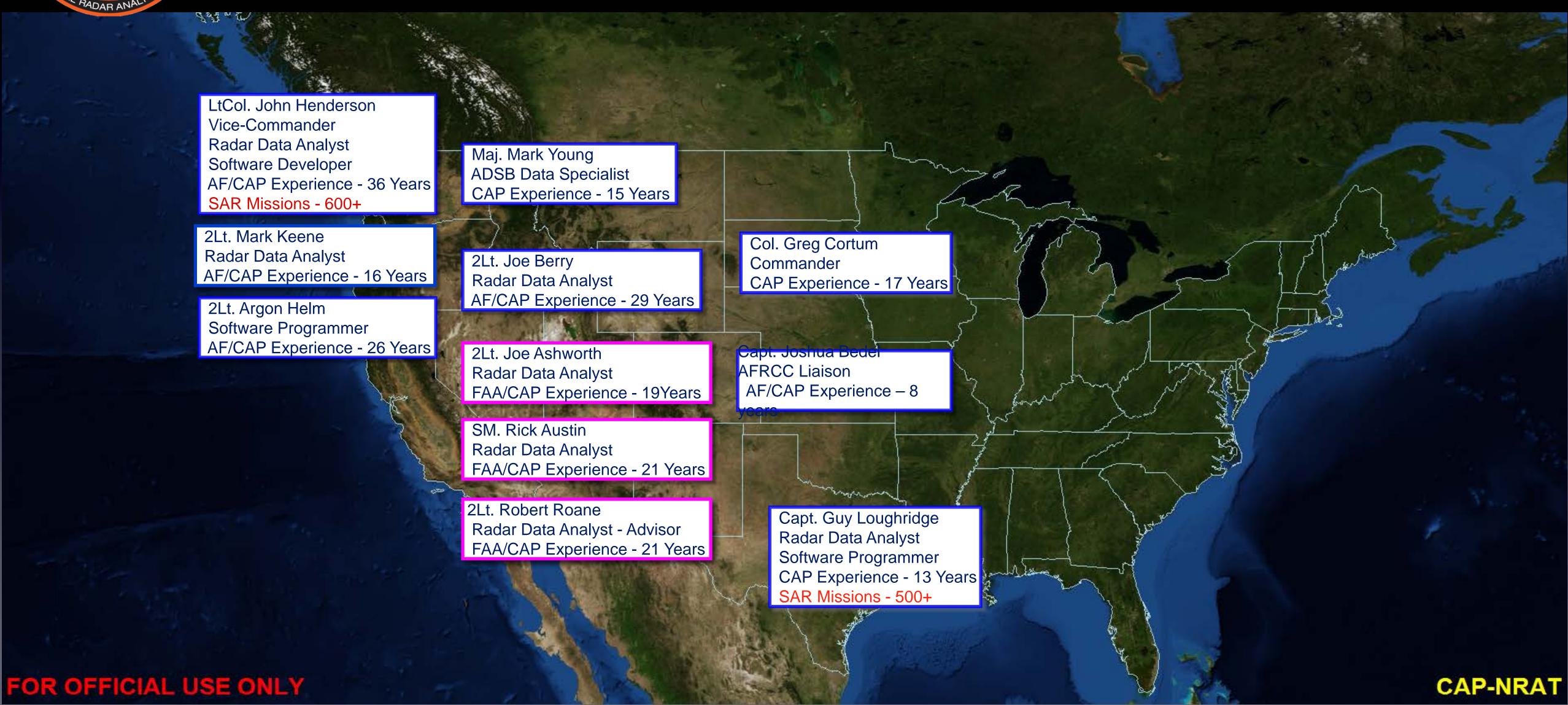
What the Team is All About

Save More Lives - Reduce the "Crash to Rescue" Time

Team Goals

- 1) Create the SAR radar forensics "A" team
 - The best radar data analysts
 - Software development team with very unique skill sets
- 2) Develop enhanced SAR analysis tools
 - Fast access to radar data and environmental data Dedicated CAP feeds
 - Advanced track analysis and briefing tools Mission SandBox and Flight Plan System
- 3) Crash Detection System (ICARUS) In Final Stages of Development
 - Alerts of possible crashes within minutes of impact
 - Generation of alert analysis package

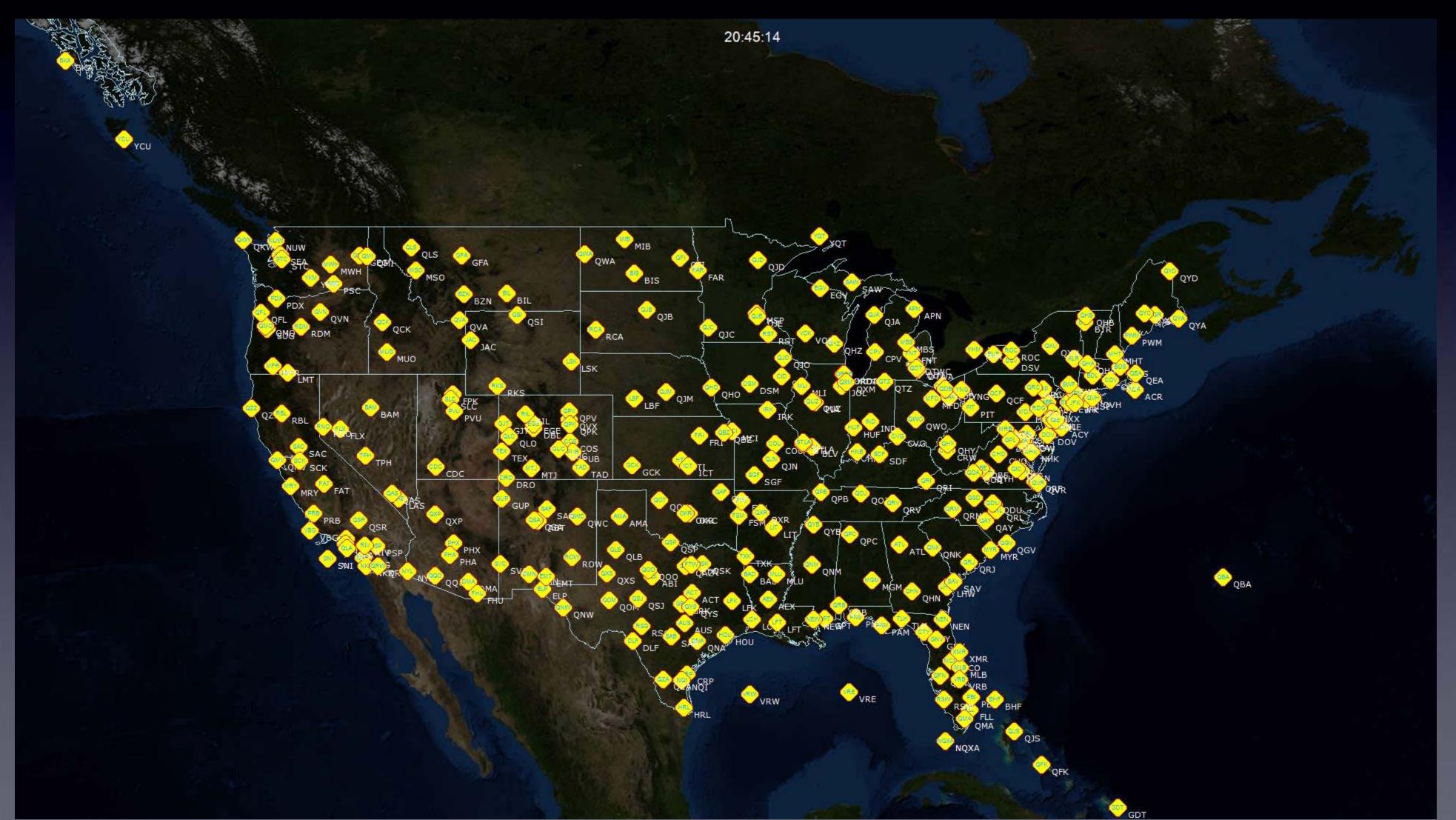






Team Accomplishments

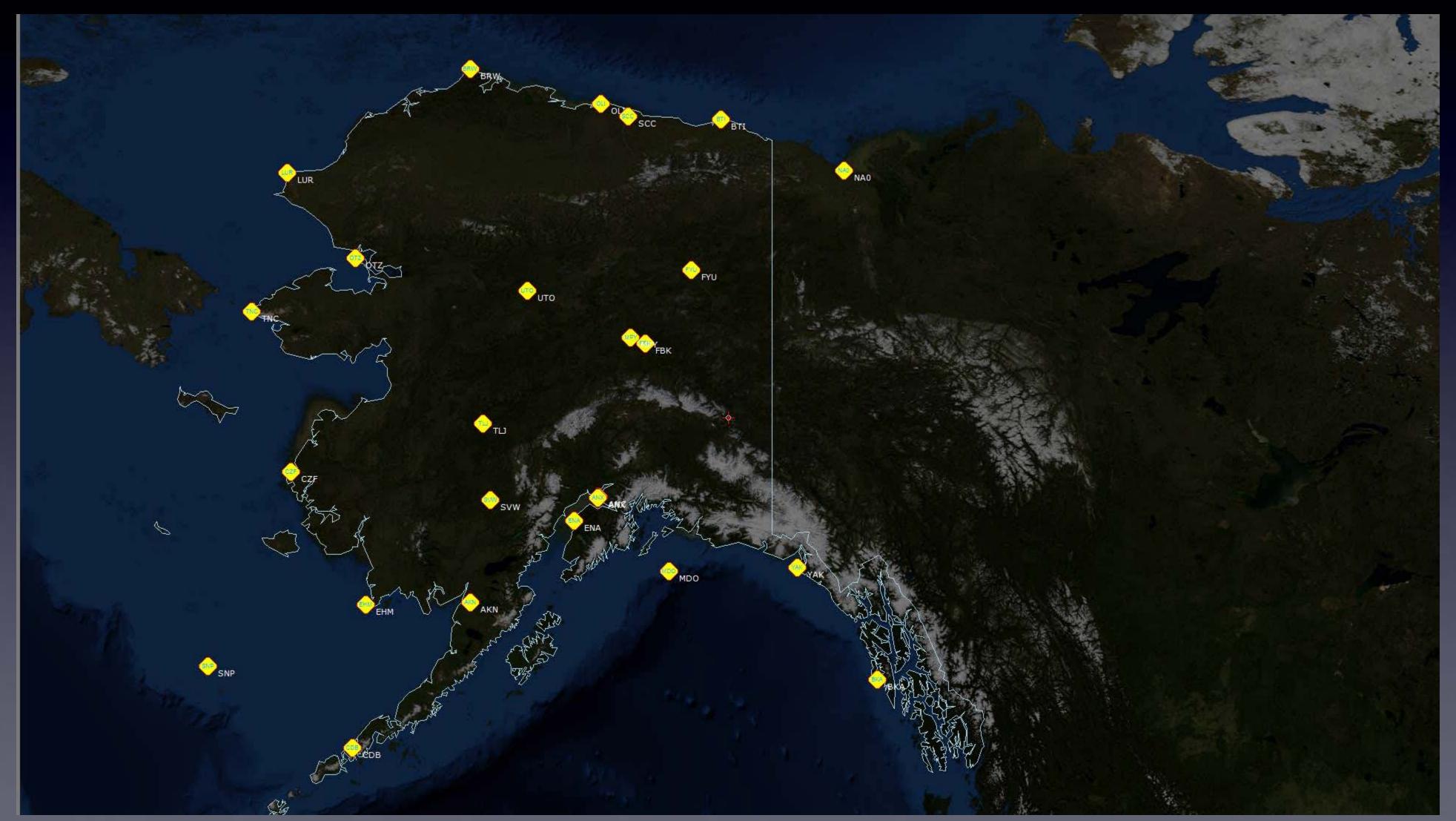
CONUS Rader Data





Team Accomplishments

Alaska Rader Data





Team Accomplishments

Hawaii Rader Data





CAP National Radar Analysis Team (NRAT) Conventional Analysis vs. Current NRAT





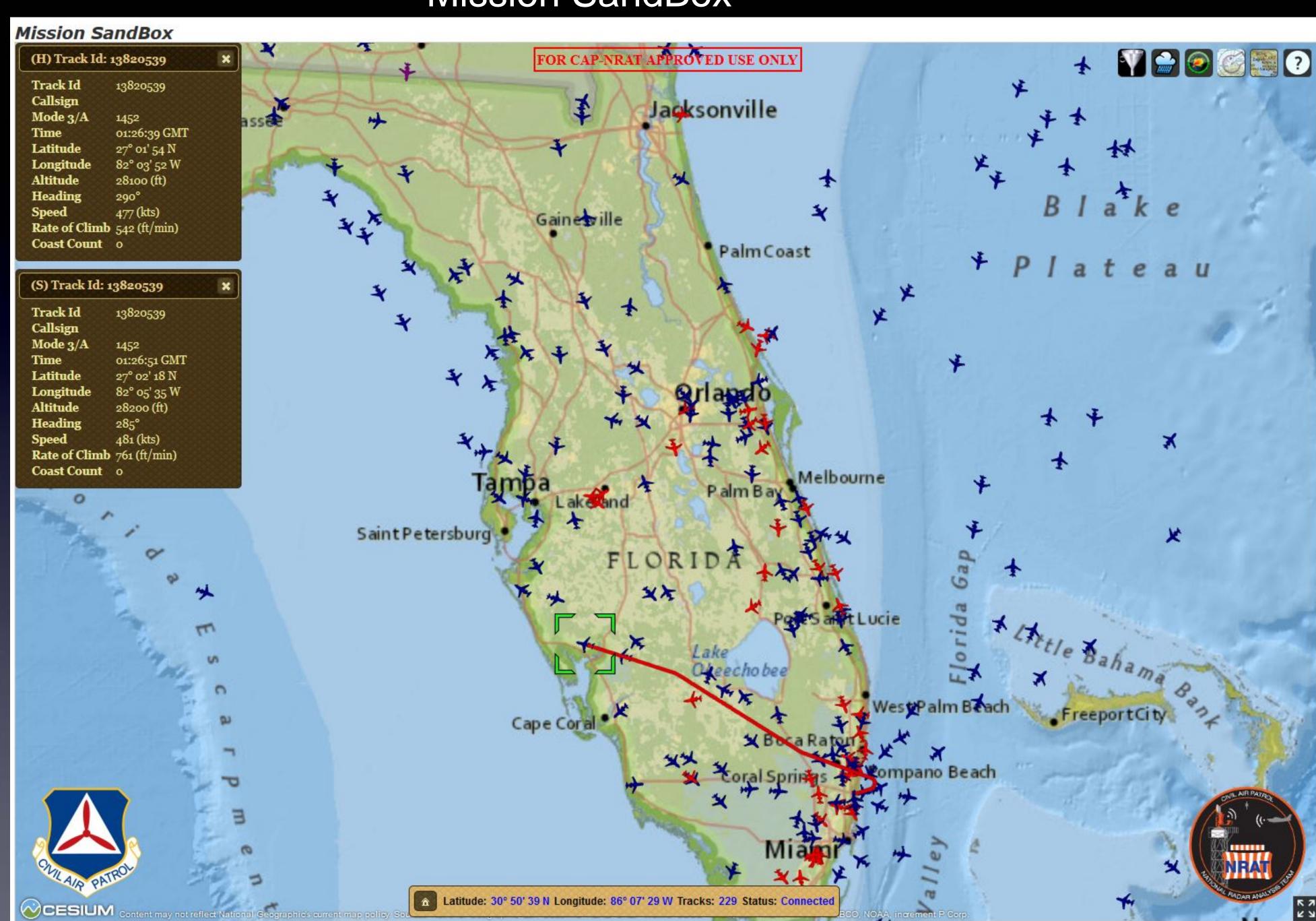
CAP National Radar Analysis Team (NRAT) Mission Success – Since Team Formation

AFRCC – Credited – 1 Jan 2009 to 01 Aug 2017								
Aircraft SAR Missions -	498							
Finds -	215							
Saves -	31							
Exercises -	3							

AFRCC – Credited - 2017								
Aircraft SAR Missions -	56							
Finds -	30							
Saves -	6							
Exercises -	2							

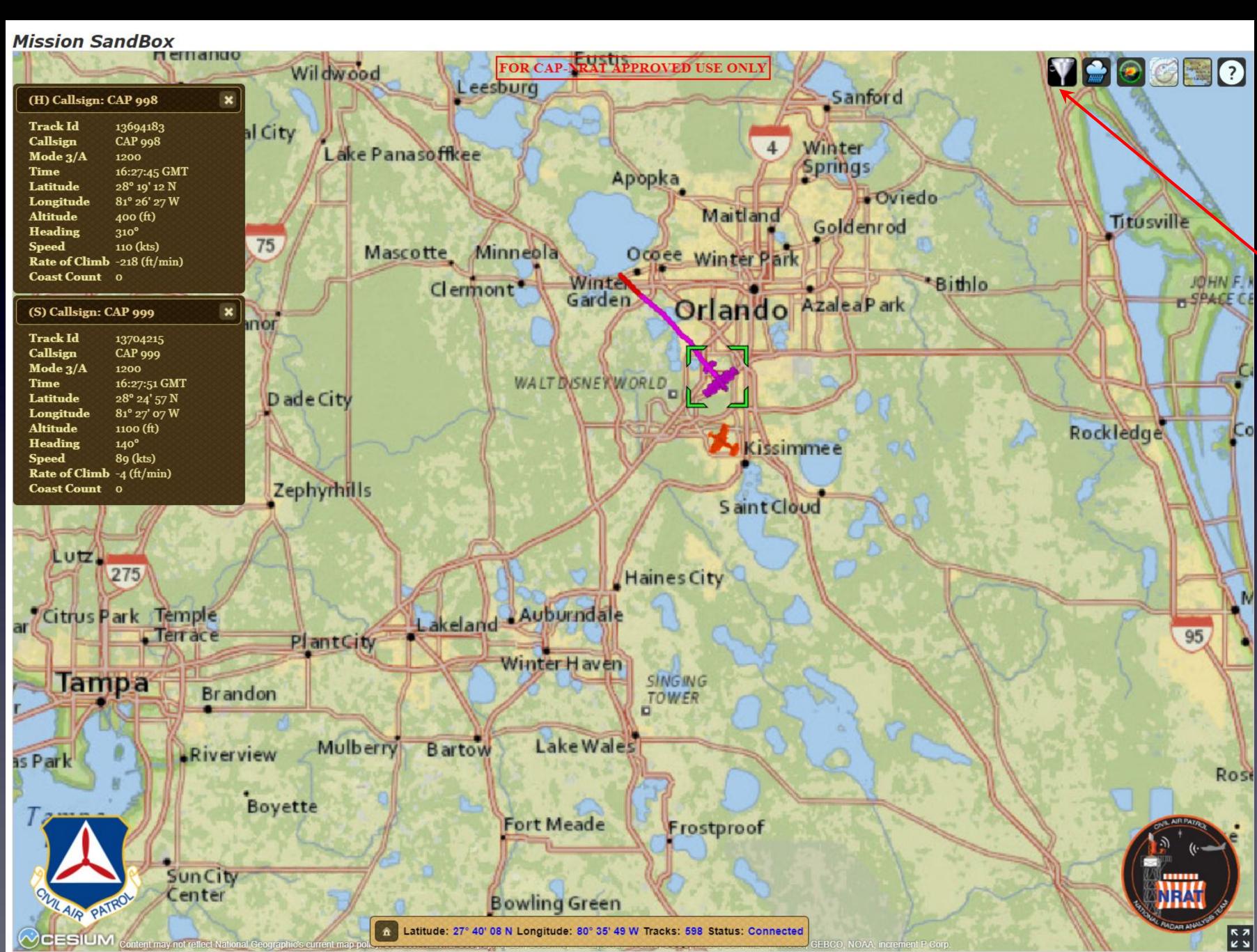
Mission SandBox





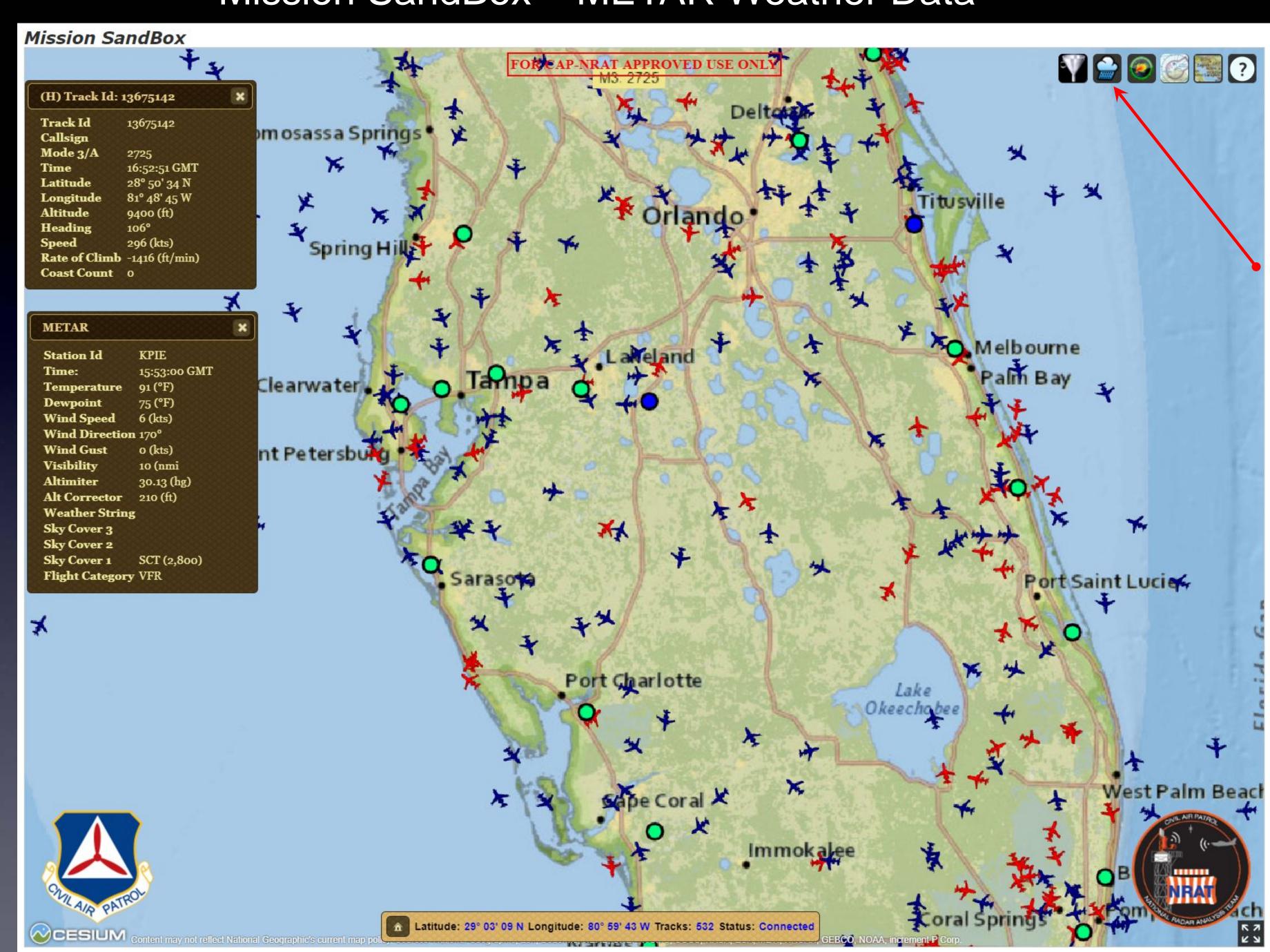
Mission SandBox – Track Isolation





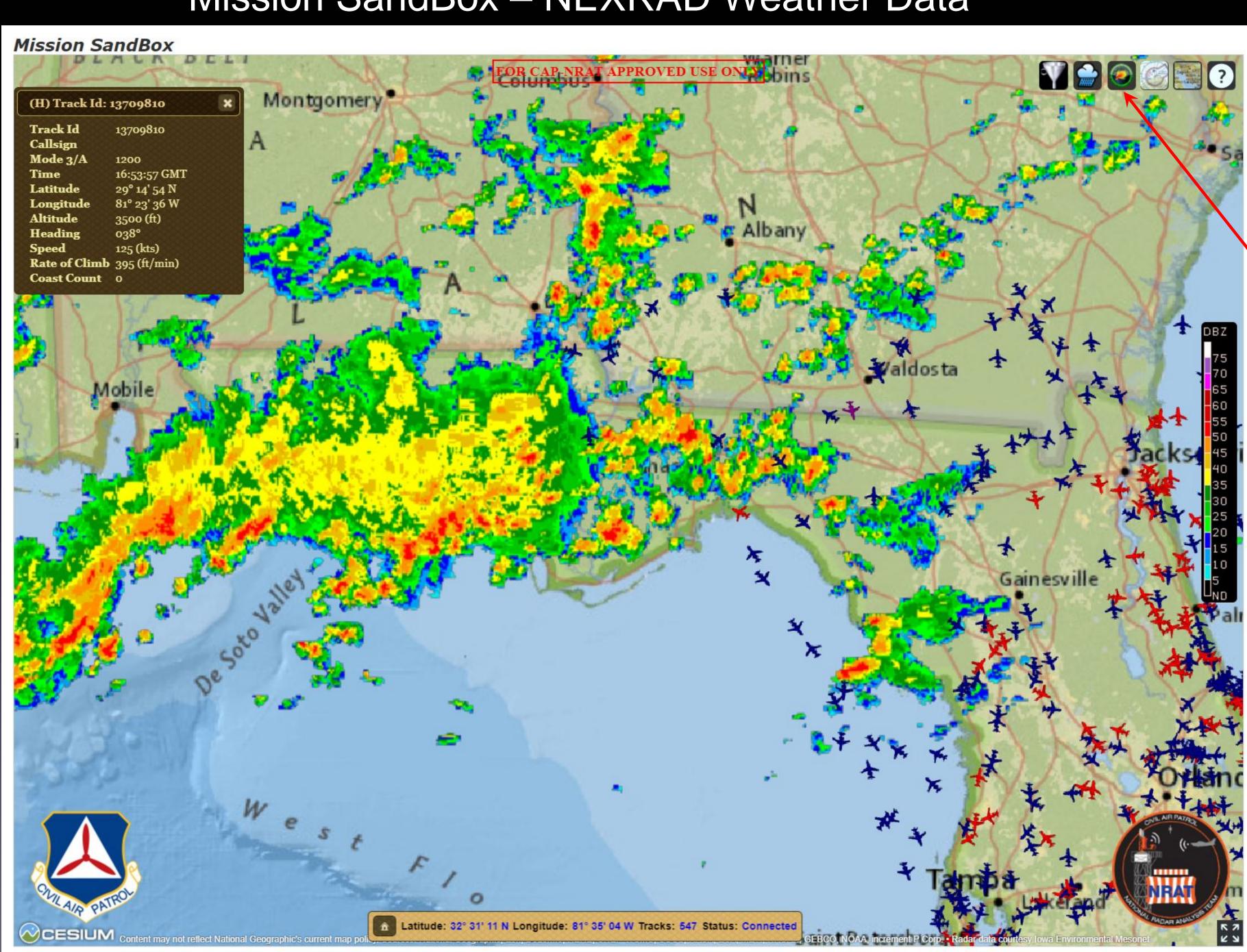
Mission SandBox – METAR Weather Data





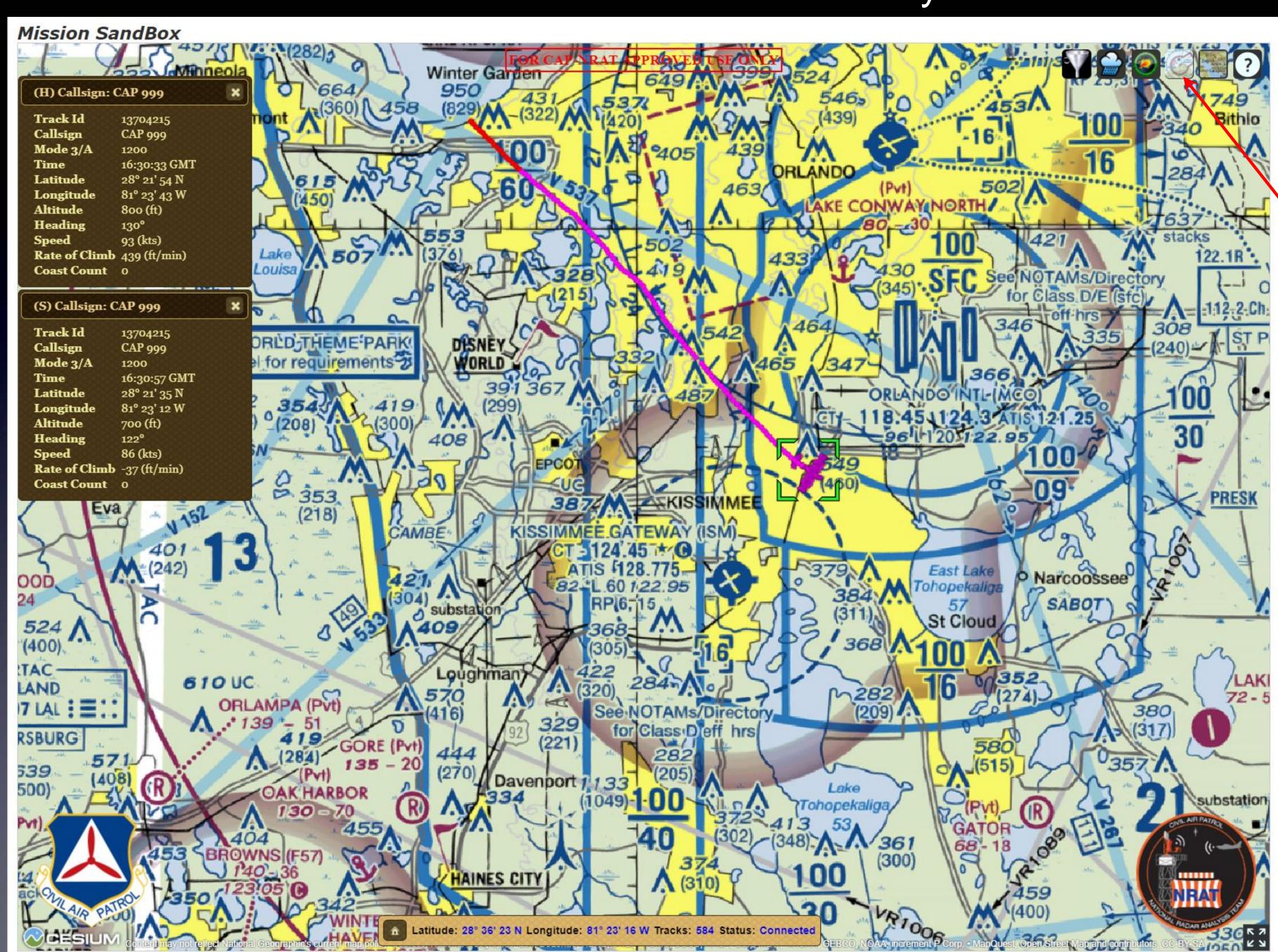
Mission SandBox – NEXRAD Weather Data





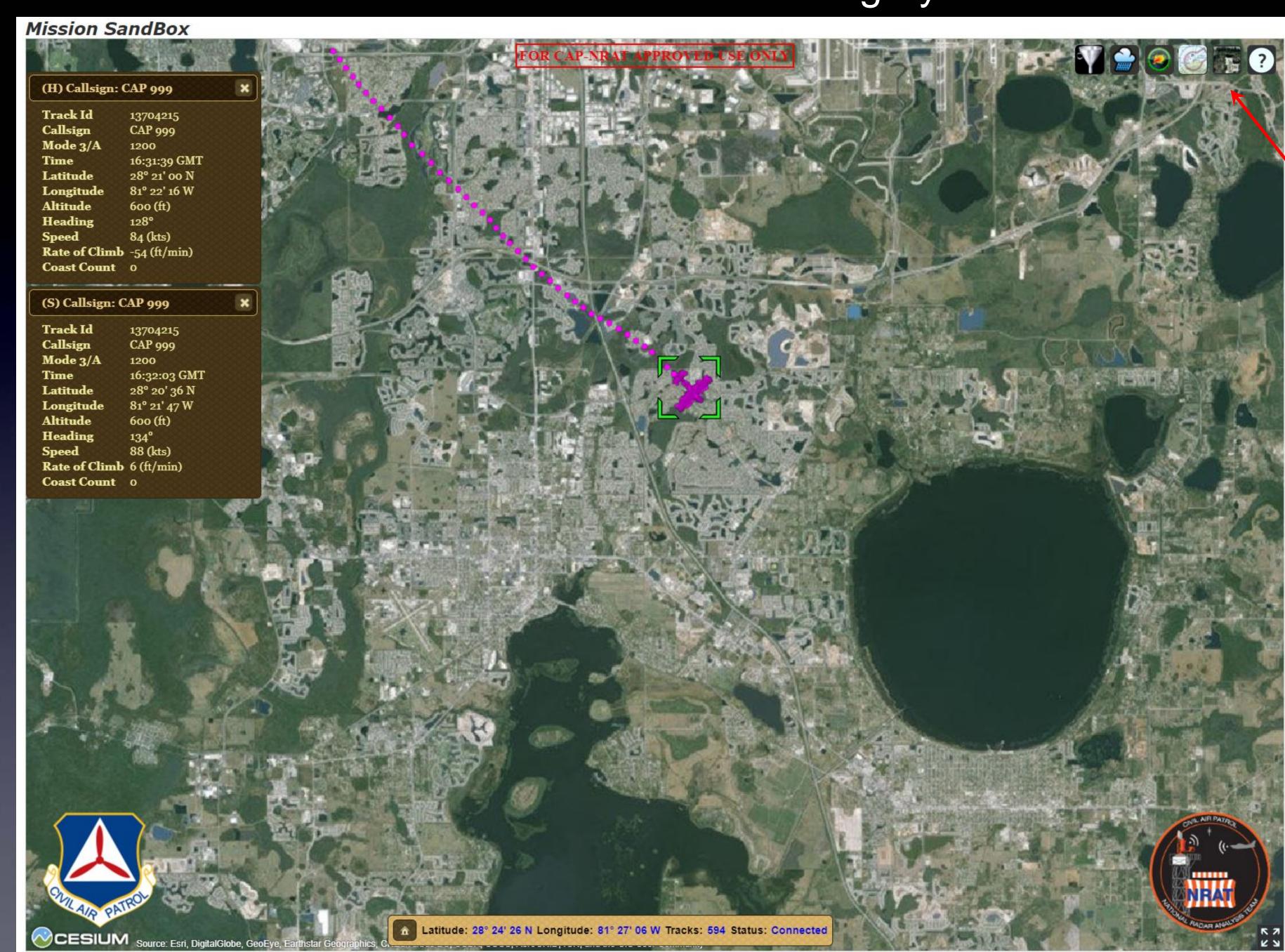
Mission SandBox – Sectional Overlay





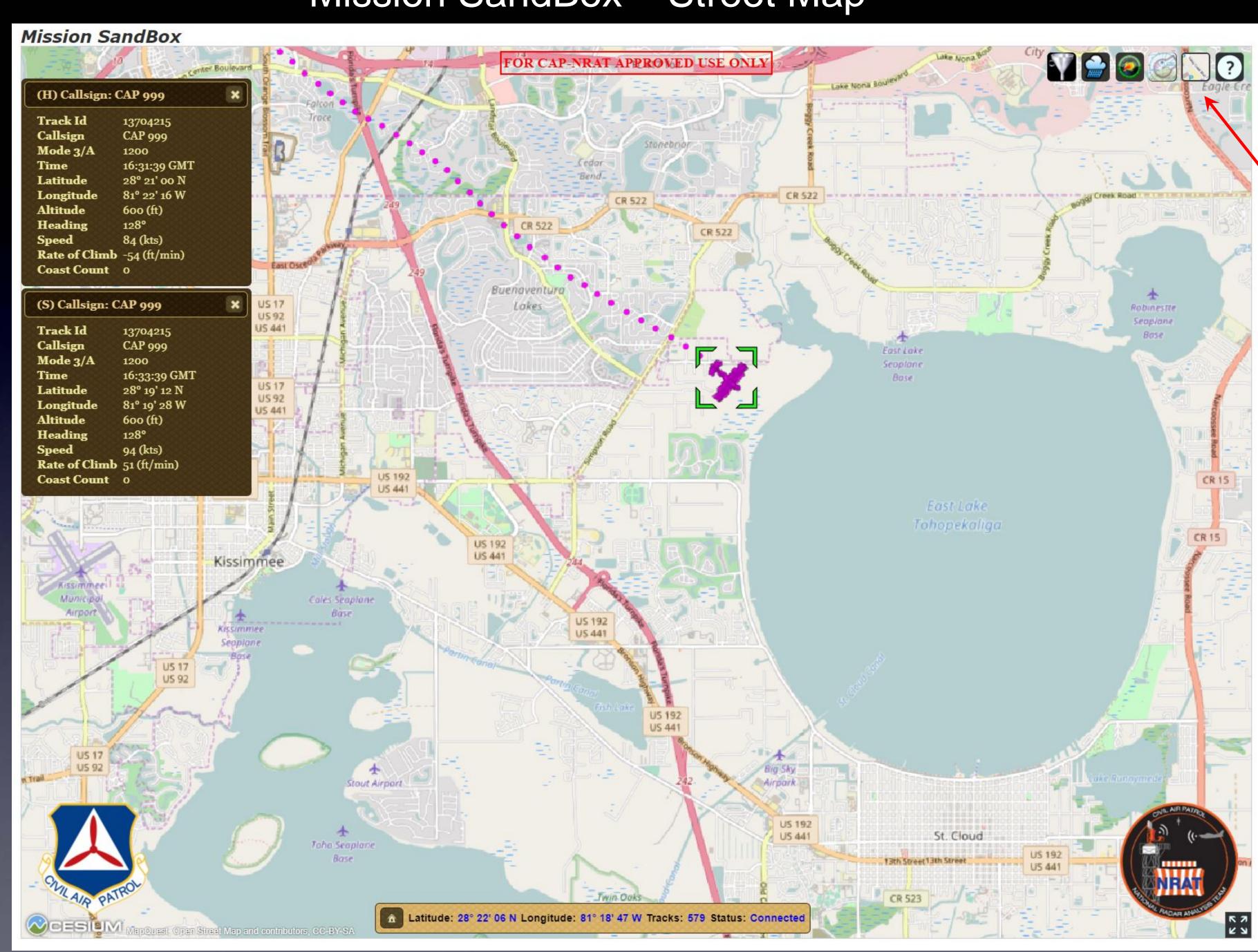
Mission SandBox – Satellite Imagery





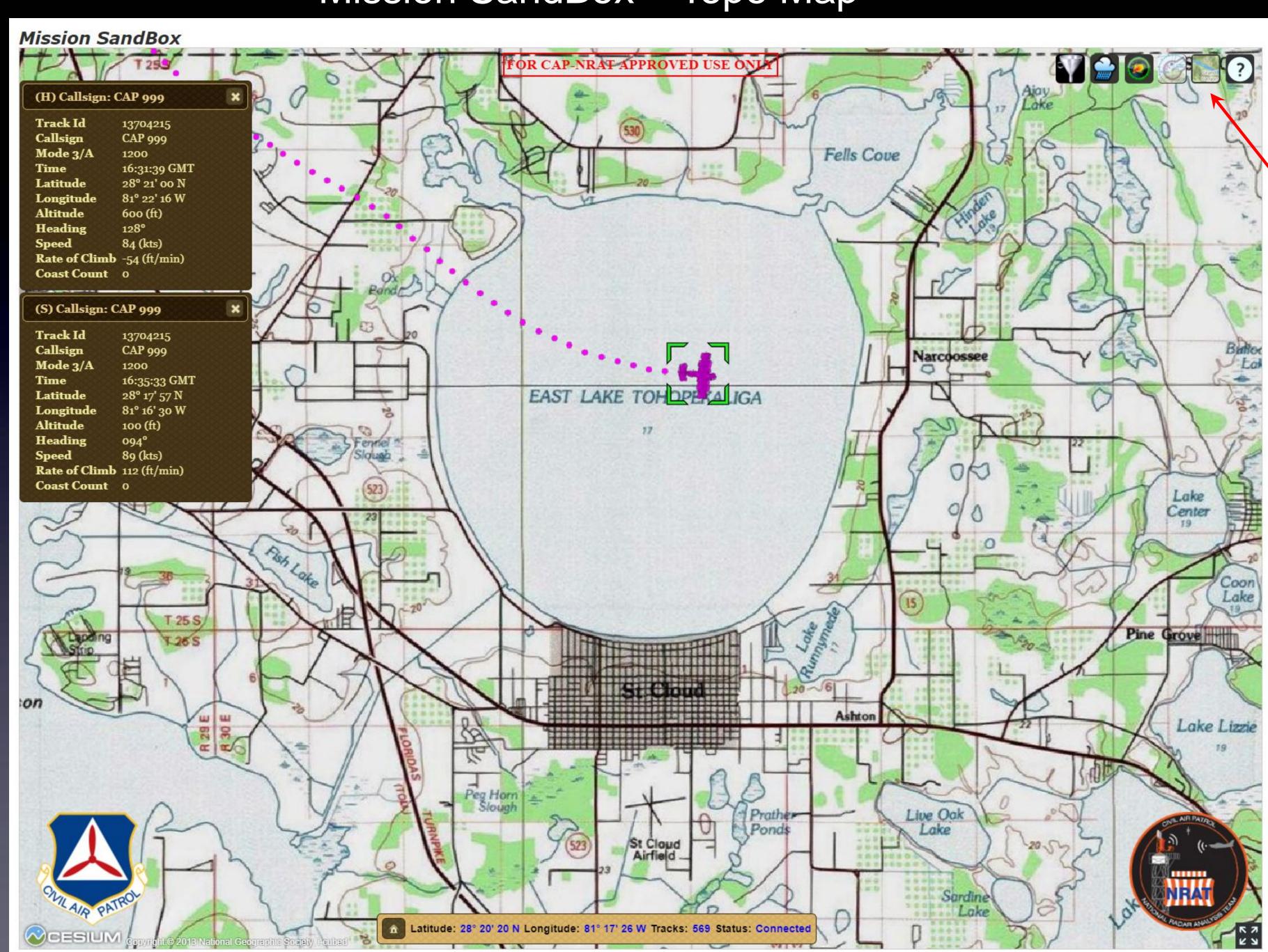
CIVIL AIR PATROL (CHANGE TENDE OF THE PATROL RADAR ANALYSIS TERM

Mission SandBox – Street Map



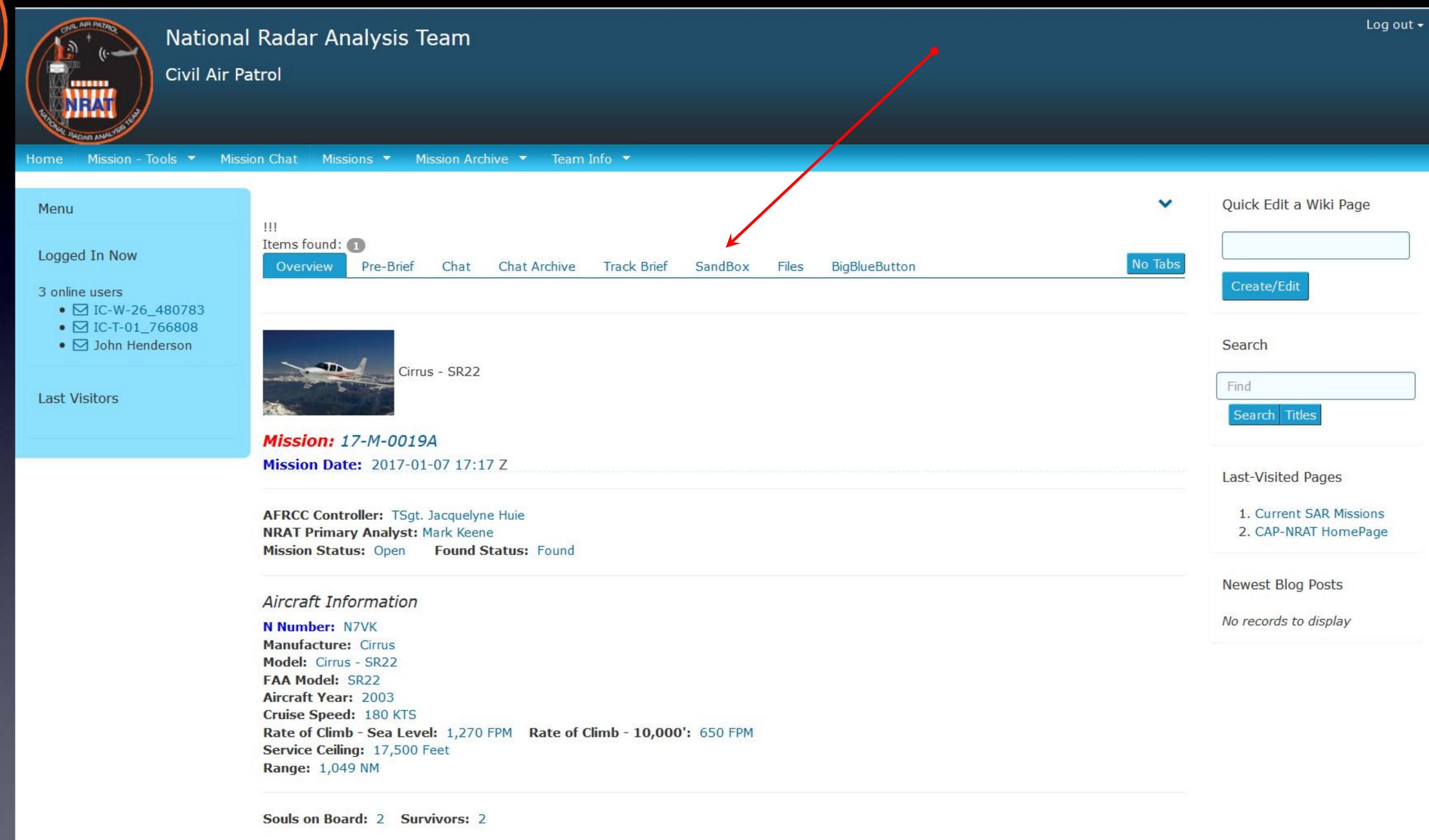
Mission SandBox – Topo Map







Mission SandBox – Mission Page Entry Point

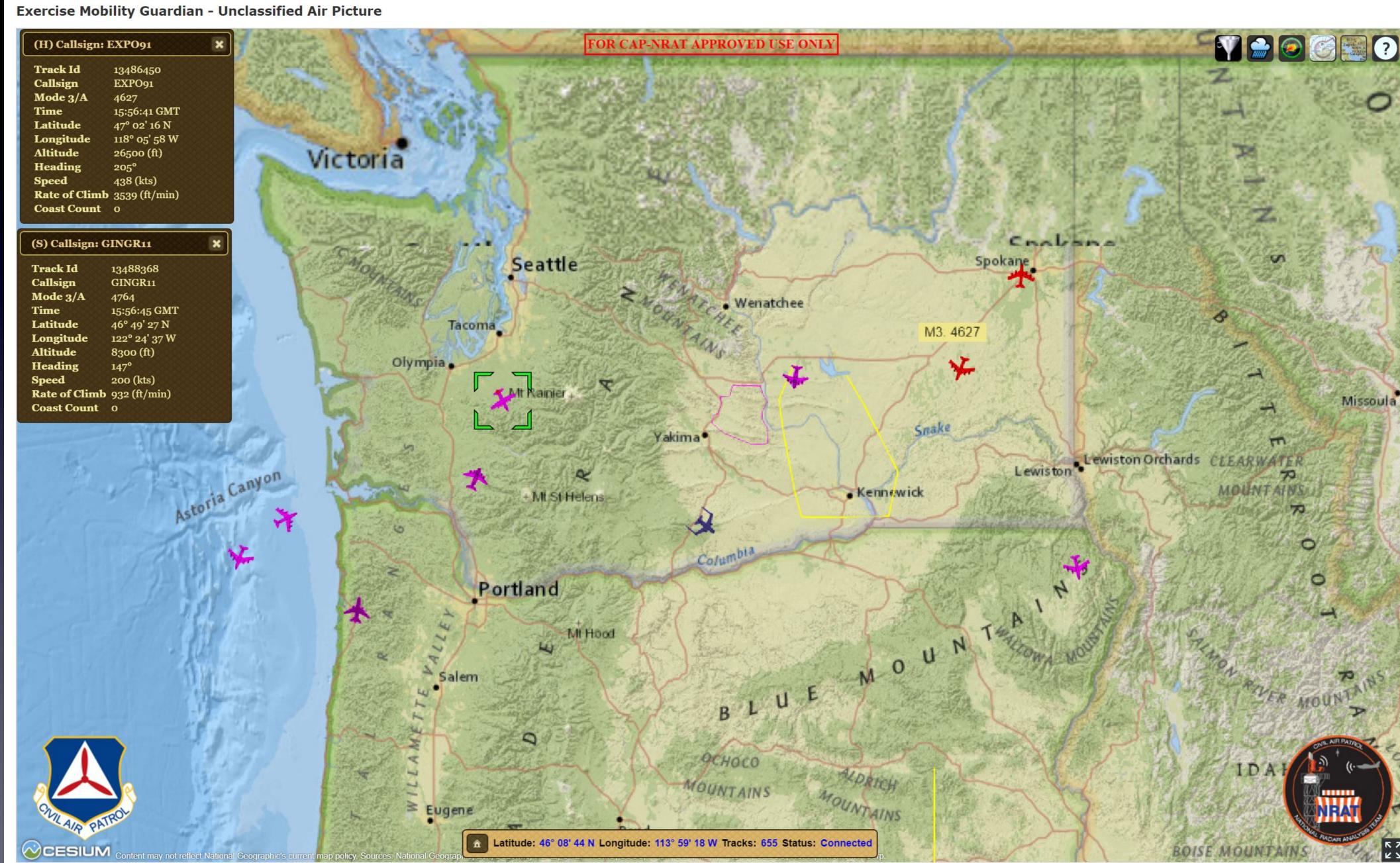


Mission SandBox – Mobility Guardian Support

CIVIL AIR PATROL

L RADAR ANALY

SandBox - Exercise Mobility Guardian



Flight Plan Archive System

Number of rows: Filter rows: Search this table

+ Options

type	time v 1	aircraft_id	beacon_code	aircraft_type	departure_airport	arrival_airport	route	ETD	ETA
FP	2017-08-04 15:13:17	N2278C		C172	KFMY	KISM	KFMYROGANLALKISM/0109	2017-08-04 20:34:00	2017-08-04 21:36:49
BC	2017-08-04 14:44:00	N2278C	5560		KISM	ISM		NULL	NULL
FP	2017-08-04 13:55:57	N2278C		C172	KISM	ISM	KISMVIZTAOCFISM/0230	2017-08-04 15:46:00	2017-08-04 17:02:05
BC	2017-08-04 13:14:00	N2278C	3434		KISM	ISM		NULL	NULL

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CAP National Radar Analysis Team (NRAT) Briefing Summary

- World Class Team
 - Most Experienced SAR Radar Forensics Team in the World
 - Forensics Software Development Group
- Updated Tools and Procedures
 - Faster Access to Enhanced Radar Data
 - Software Assistance in Blending Many Sources of Information
 - Comprehensive Analysis Results Briefing Packages
- The Future ICARUS Aircraft Crash Detection and Alerting
 - Near-Real-Time System
 - Designed to shorten "Crash to Rescue" Time More Saved Lives

Civil Air Patrol

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