



What's New in Operations

John "Moose" Desmarais

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Operations (DO) Top Projects

- ICL/Change to CAPR 173-3 and new CAPR 73-1
- Reviewing Annual Training Plan Inputs
- SQTR & Training Updates
- HF Radio System Updates
- Remote Repeater Access (ReadyOp)
- Communications TA Update
- \$1M Communications Spend Plan
- ICL/Change to CAPR 100-1 and new CAPR 74-1 & 2 (replacing 100-1 & 3)
- NTC Facility Upgrades and Moves
- CAPR 75-1 (Old 60-5)
- Suicide Prevention & Resiliency Initiatives, Publications & Training
- HSO Specialty Track Updates
- RPA Escort Mission Expansion to Texas
- ICL/Change to CAPR 60-3 and new CAPR 72-1 (Old 60-3, 60-6 & 900-5)
- CAPR 70-2, 3 & 4 & DOV Specialty Track
- ICL/Change to CAPR 70-1
- ICL/Change to CAPM 60-1G
- Operational small UAS (mini-UAV) Program Implementation & Roadmap
- Pilot Shortage & Youth Aviation Programs
- CFT Follow-On Work & New CFT
- Replacement Camera Kit Deployment
- COOP Program Updates
- MOAWG & Now POM & Unfunded Requirements Adjustment

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Current Powered Rates

Table 1 – Minor Maintenance Only

Manufacturer	Cessna	Cessna	Cessna	Cessna	Cessna	Gippsland	Maule
Model	172	182	SP 182Q	A185F	206	GA-8	MT-7-235
Cost/hour	\$53	\$62	\$96	\$110	\$80	\$66	\$70

Table 2 – Minor & Major Maintenance

Manufacturer	Cessna	Cessna	Cessna	Cessna	Cessna	Gippsland	Maule
Model	172	182	SP 182Q	A185F	206	GA-8	MT-7-235
Cost/hour	\$71	\$92	\$142	\$153	\$136	\$175	\$100



New FY19 Rates

Table 1 – Minor Maintenance Only

Manufacturer	Cessna	Cessna	Cessna	Cessna	Cessna	Gippsland	Maule
Model	172	182	SP 182Q	A185F	206	GA-8	MT-7-235
Cost/hour	\$56	\$62	\$96	\$110	\$87	\$83	\$58**
Difference	+ \$3	NC	NC	NC	+ \$7	+ \$17	- \$12

Table 2 – Minor & Major Maintenance

Manufacturer	Cessna	Cessna	Cessna	Cessna	Cessna	Gippsland	Maule
Model	172	182	SP 182Q	A185F	206	GA-8	MT-7-235
Cost/hour	\$72	\$92	\$168	\$181*	\$91**	\$85**	\$72**
Difference	+ \$1	NC	+ \$26	+ \$28	-\$45	- \$90	- \$28

* This has been held to the expected rate available from Conklin & De Decker; the true rate would have been \$379.

** These rates are decreasing as the average for the last two years has gone down.

NC = No Change



Establish Glider & Balloon Rates

Gliders

- **\$10 per launch for members on sorties that are not appropriated funded or waived (flight academies, proficiency, etc.)**
- **\$12 per launch for external customers (AFROTC, AFJROTC, etc.)**

Balloons

- **\$38 per hot hour for members on sorties that are not appropriated funded or waived**
- **\$48 per hot hour for external customers**



Powered Flying

FY17 vs FY18 as of 15 August

AFAM Mission Types	FY17	FY18	% Difference	% Goal	Status
AFJROTC	677	787	16%	157%	Blue
Air Defense	971	1,123	16%	80%	Green
Other / HLS	6,437	7,064	10%	109%	Blue
Cadet Orientation	9,248	10,011	8%	89%	Blue
AFROTC	481	508	6%	254%	Blue
Surrogate RPA	1,111	1,170	5%	90%	Blue
Range Support	374	352	-6%	101%	Blue
Maintenance	7,779	7,123	-8%	84%	Green
Route Survey	515	451	-12%	60%	Red
Search and Rescue	1,607	1,403	-13%	83%	Green
Training	25,946	21,578	-17%	54%	Red
Drug Interdiction	4,726	3,028	-36%	38%	Red
DSCA / DR	1,600	911	-43%	61%	Red
AFAM Total	61,470	55,506	-10%	68%	Yellow
Liaison Flying	1,714	1,554	-9%	62%	Yellow
Corporate Flying	20,843	20,032	-4%	87%	Green
Total Flying	84,028	77,093	-8%	72%	Yellow



FY18 Utilization Rates

1 October through 31 July CAPF 18 Reports

Rank	Wing	Rate
1	NC	253.3
2	DC	215.9
3	NH	189.4
4	CT	181.8
5	VT	180.4
6	CA	179.8
7	AZ	178.3
8	SC	164.2
9	TX	159.2
10	FL	157.7
11	MA	157.5
12	DE	156.0
13	NER	155.5
14	PR	154.0
15	WI	150.0
16	GA	148.2
17	NM	141.7

Rank	Wing	Rate
18	MD	140.7
19	OH	139.3
20	CO	138.9
21	AL	135.7
22	NJ	132.4
23	VA	132.2
24	LA	131.7
25	OK	129.7
26	MI	125.7
27	OR	120.0
28	MN	119.1
29	IL	117.4
30	NY	116.2
31	AR	113.2
32	WV	113.1
33	NV	112.9
34	IN	111.2

Rank	Wing	Rate
35	KS	107.6
36	WA	105.4
37	MS	101.9
38	ID	101.8
39	SER	99.0
40	ND	98.2
41	PA	97.7
42	TN	97.4
43	SD	92.1
44	MO	90.3
45	ME	80.9
46	AK	78.6
47	NE	73.9
48	MER	73.8
49	HI	72.8
50	RI	71.7
51	CNG	71.2

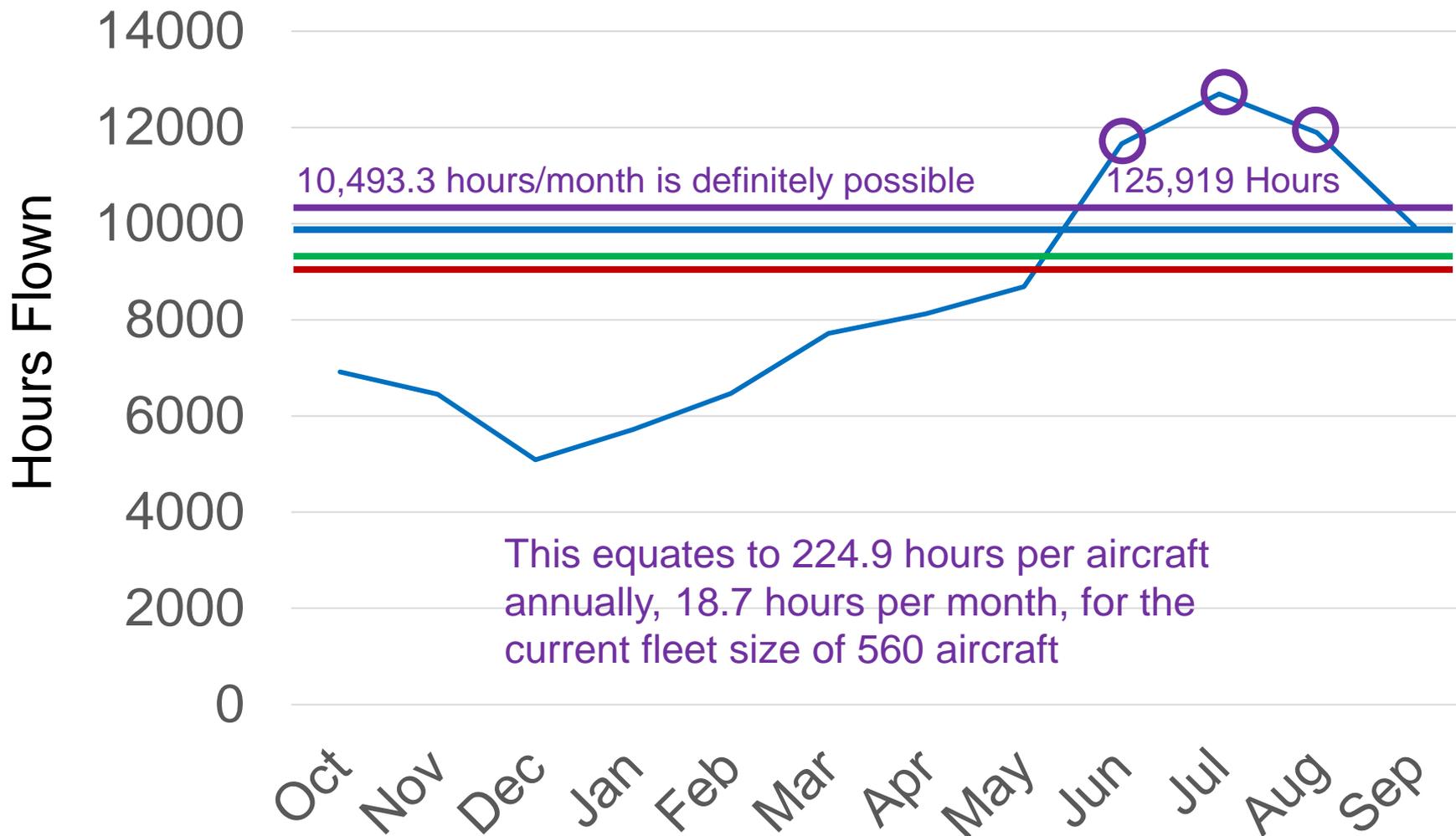
Rank	Wing	Rate
52	UT	67.2
53	IA	63.6
54	KY	59.1
55	MT	54.2
56	RMR	32.0
57	WY	30.2
58	NCR	13.2

Goal: 166.6
Hours Per
Aircraft

Results: 129.2
Hours Per
Aircraft



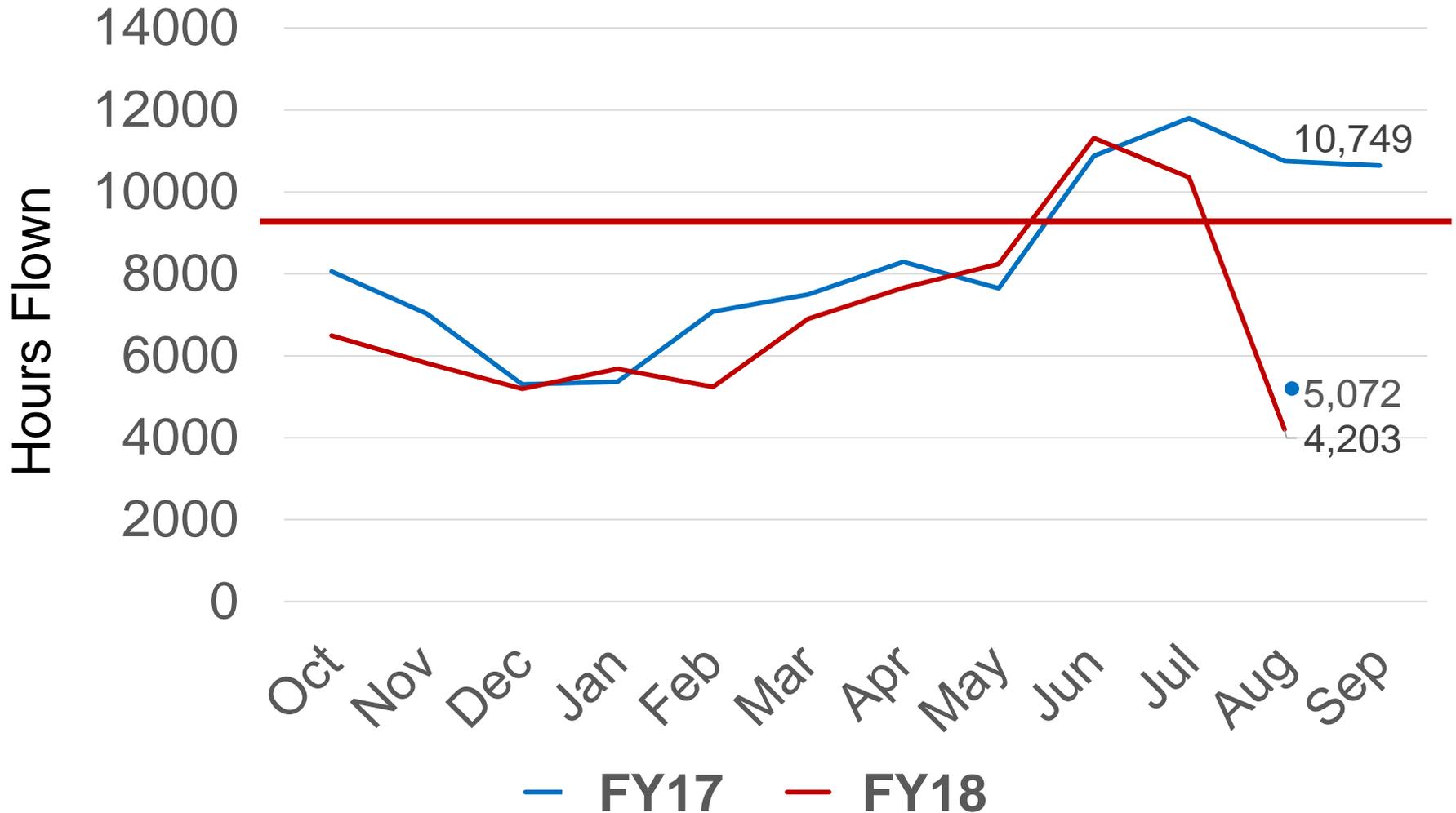
We can fly more!



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Month by Month Comparison FY17 vs FY18 as of 15 August



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Nationwide Aircrew Capability

Crew Type	Desired Total	Total Assigned (No duplication from any other category)	Average Time Flown Last 12 Months	Full Time (Those that flew equal or more than the average)	Part Time (Those that flew less than the average in the last 12 months)	Average Years of Service (Average time of membership of personnel in this category)
Mission Check Pilot Examiners	280	329	67.7	131	198	21
Mission Check Pilots	560	164	82.1	64	100	15
Mission Pilots	1,680	1,146	60.8	446	700	12
Mission Pilot Trainees	560	895	21.1	283	612	13
Transport Mission Pilots	280	565	26.0	211	354	9
VFR Pilots	280	129	18.0	47	82	6
Mission Observers	2,240	2,212	9.9	672	1,540	12
Mission Observer Trainees	1,120	1,305	3.4	336	969	13
Mission Scanners	2,240	1,450	3.6	466	984	8
Mission Scanner Trainees	1,120	1,739	1.4	426	1,313	10
Total	10,360	9,934	29.4	3,082	6,852	11.9



WMIRS eRelease Totals Current as of 15 August

FY17 (Total)

- 85,095 flights released
- 0 flights disapproved
- 139 flights with no eRelease
- 99.8% of flights released electronically

FY18

- 60,618 flights released
- 0 flights disapproved
- 363 flights with no eRelease
- 99.4% of flights released electronically



WMIRS e108 Process Summary

Current as of 15 August 2018

FY18 (1 OCT 17 – 15 AUG 18)

- **2,841 e108s processed**
- **13 days until e108s created; Range 0 to 41 days**
- **3 days until Wing approves; Range 0 to 46 days**
- **9 days until National approves; Range 1 to 29 days**
- **25 days total; Range 5 to 64 days**



ORM Scoring By Mission Type

Highest: 19-25 August 2018 (as of 15 August)

Mission Type	Wing	Score
Corp Misc	LA	8.0
Other	NM	7.0
Cadet Orientation	TX	7.0
Cadet Orientation	AZ	6.0
SAR Training	AZ	6.0
Proficiency	MN	6.0
Proficiency	NE	6.0
SAR Training	NJ	6.0
Cadet Orientation	GA	4.5
Glass Cockpit	IN	4.0

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Small UAS Program

- **Units / Wings training to qualify operators and observers – goal is now 10 and 10 to be FOC**
- **Volunteer program manager...expect to hear from Lt Col Austin Worcester**
- **Drafting of regulations, SQTRs, and supporting documentation is in the works along with a long term plan to be implemented in September**
- **Be thinking about who you will want as your region and Wing SUAS officers (DOU)**
- **Wings without units identifying candidates now**



What are we flying?



DJI Phantom 3s & 4s



RC Timer F800



Skylark Endurance Quad



Event 38 E384

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Small UAS Operating Locations

- 24 Units/Wings Currently
- Goal is for every wing by 2020 if not sooner
- Planning for at least 15 more late this summer

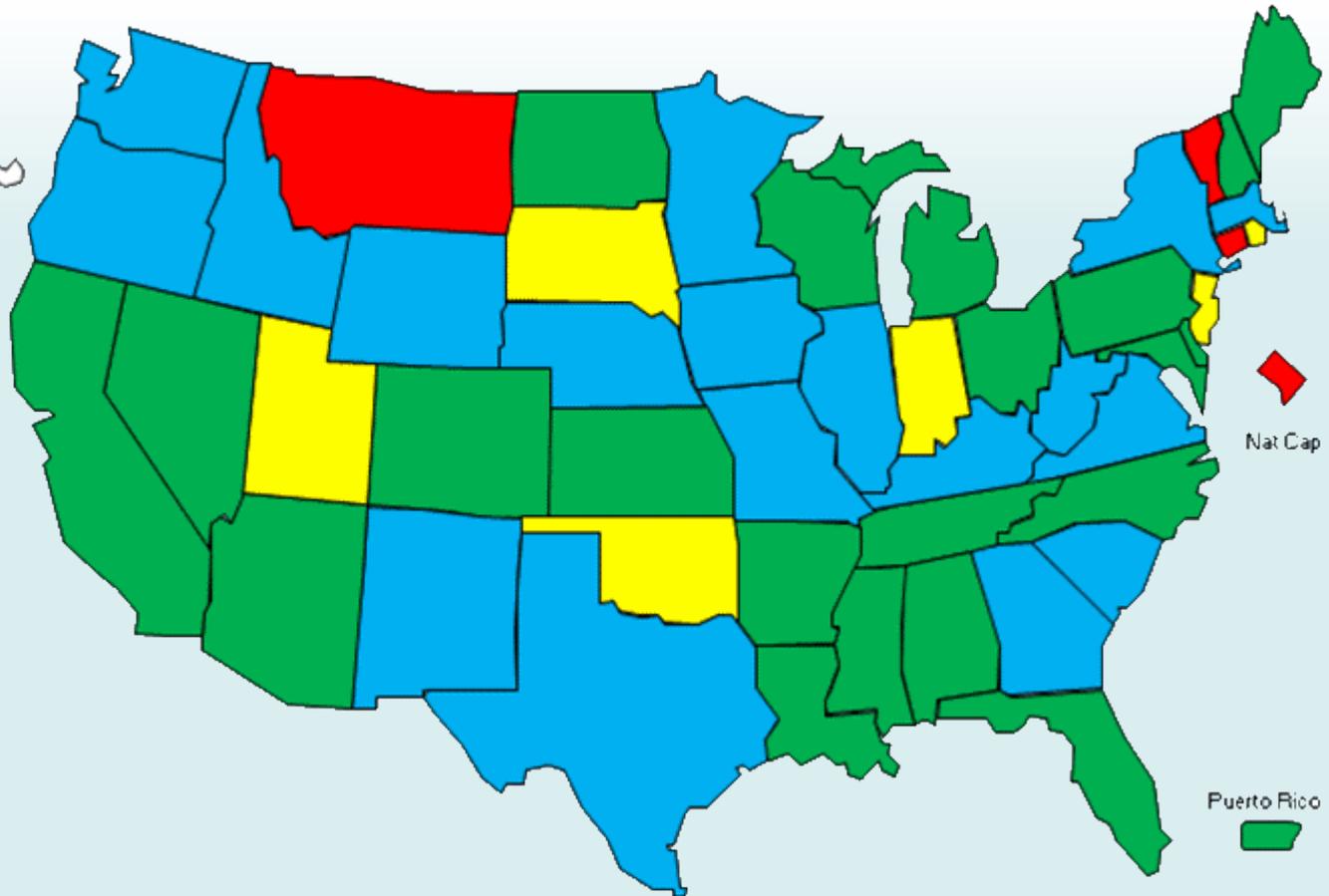


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National Traffic Net Sustained Performance

FY14

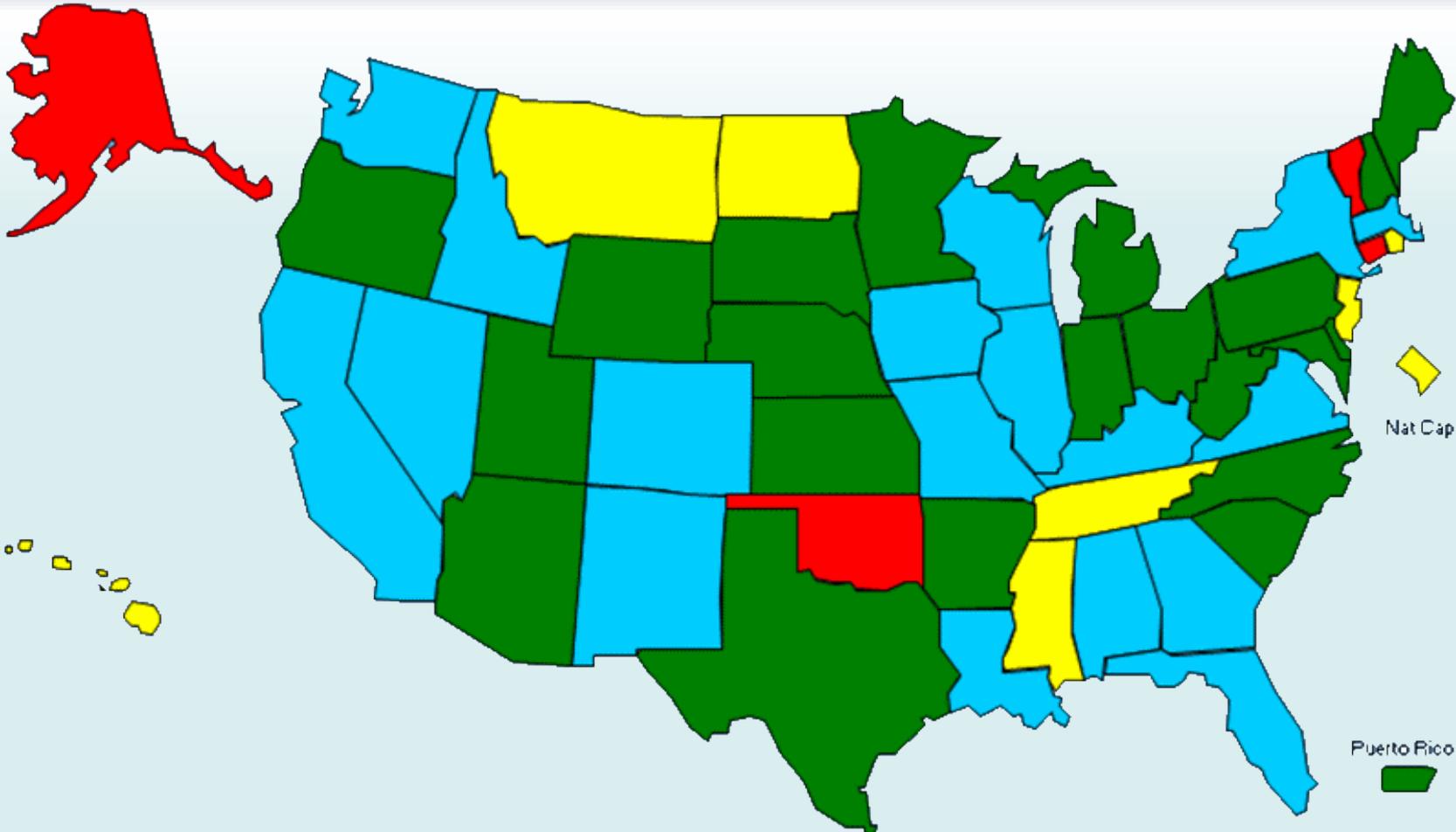


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National Traffic Net Sustained Performance

FY15

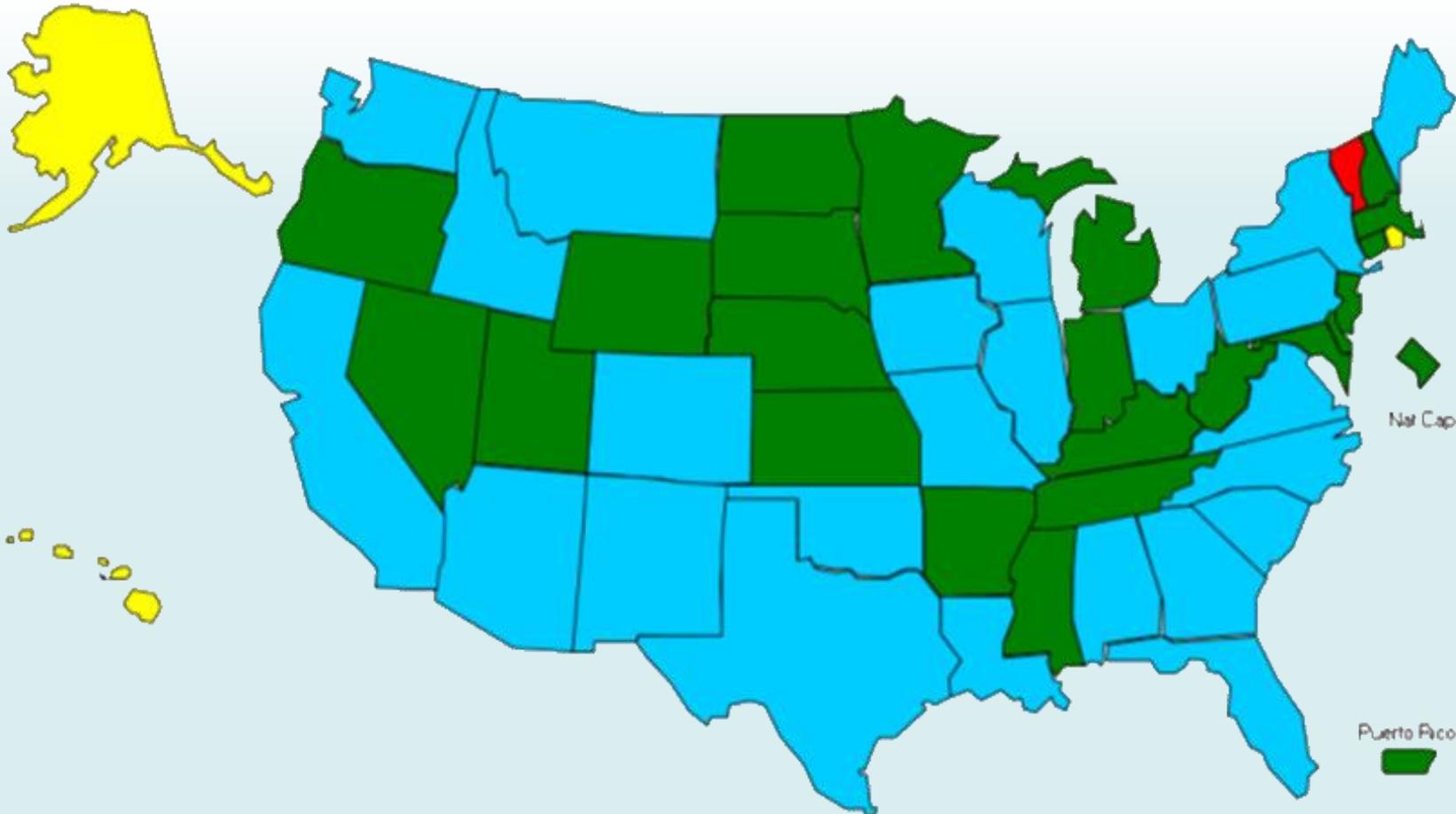


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National Traffic Net Sustained Performance

FY16

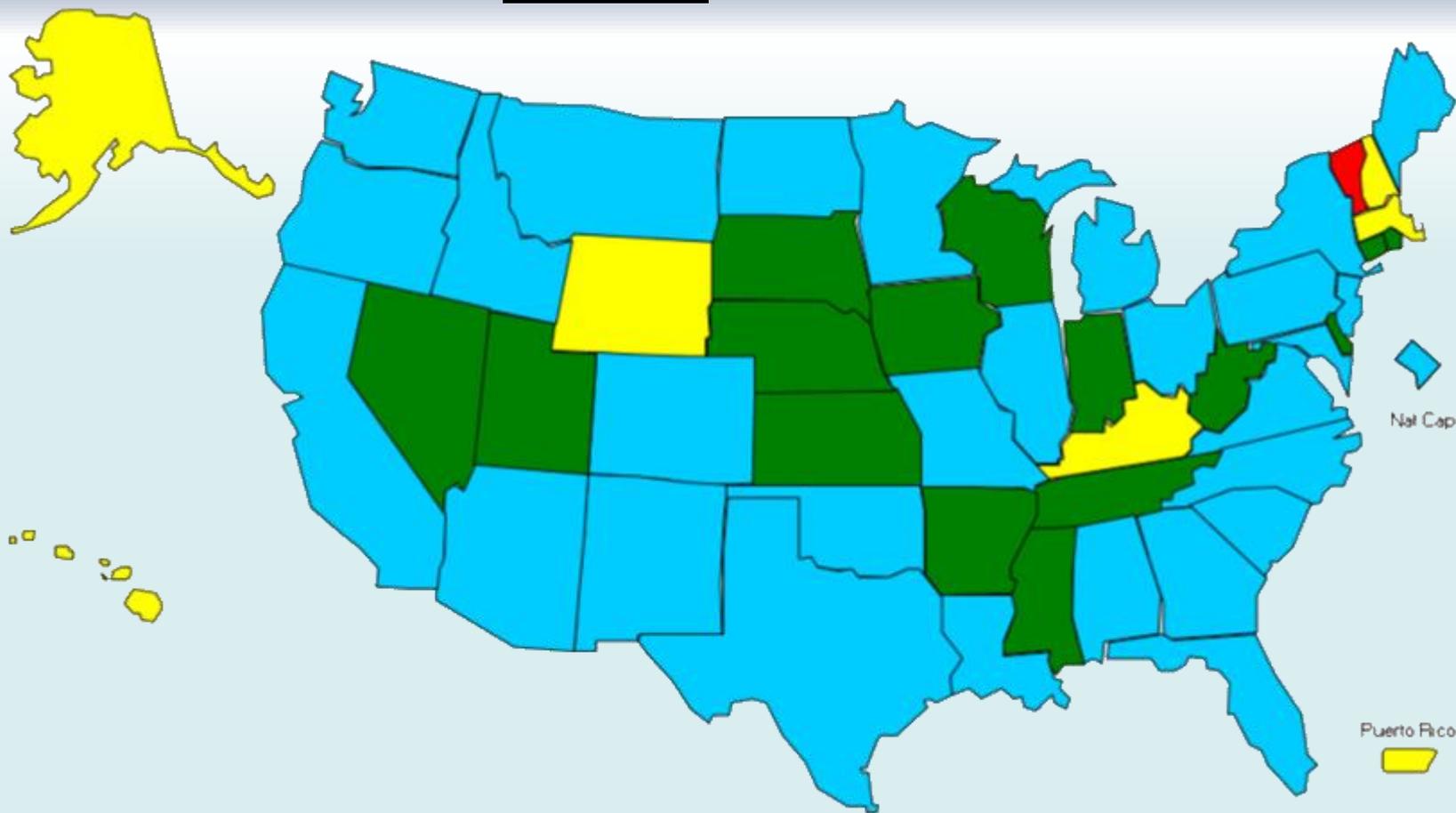


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National Traffic Net Sustained Performance

FY17



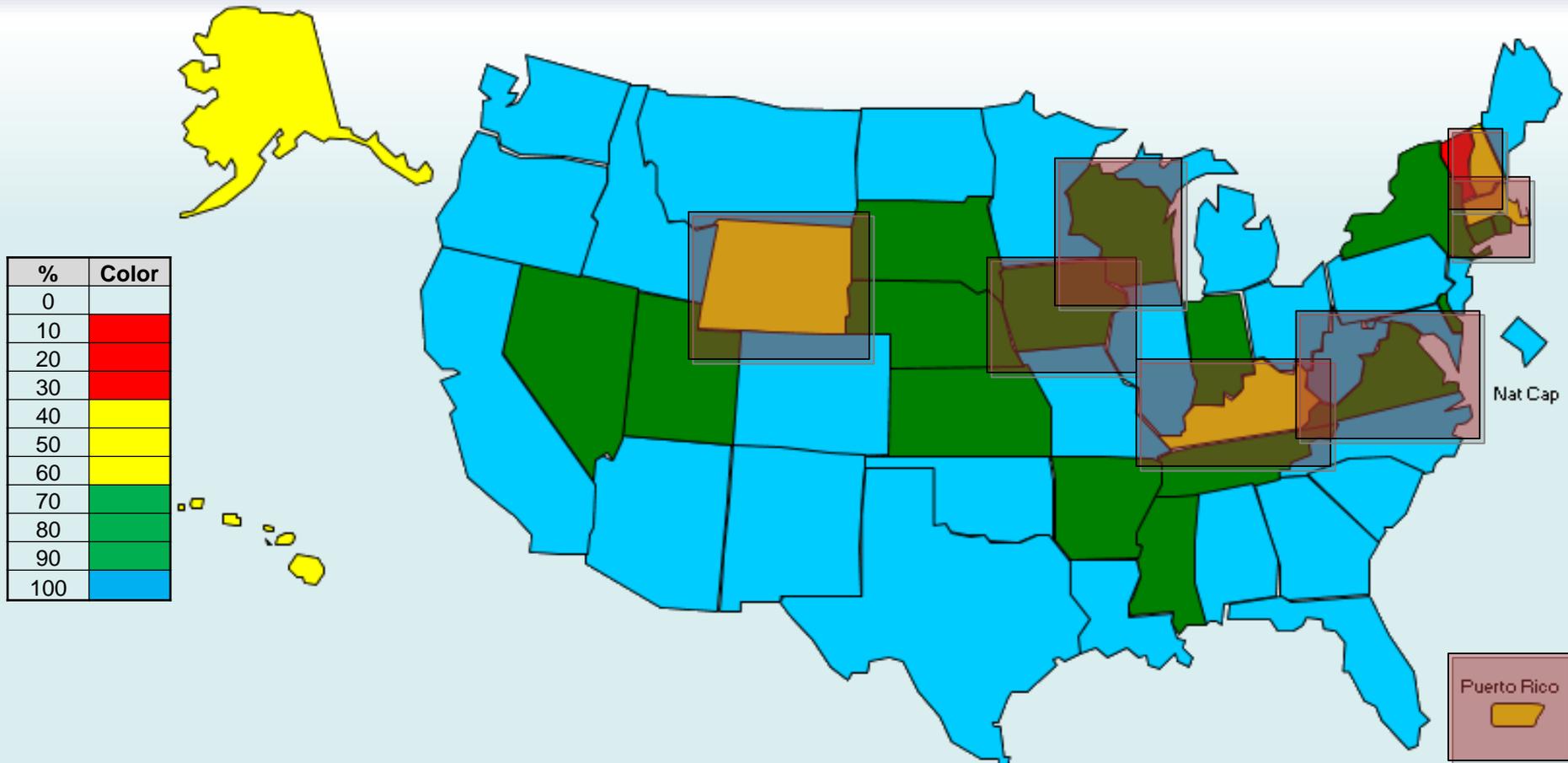
%	Color
0	Red
10	Red
20	Red
30	Red
40	Yellow
50	Yellow
60	Yellow
70	Green
80	Green
90	Green
100	Light Blue

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National Traffic Net Sustained Performance

FY17 - Downgrades



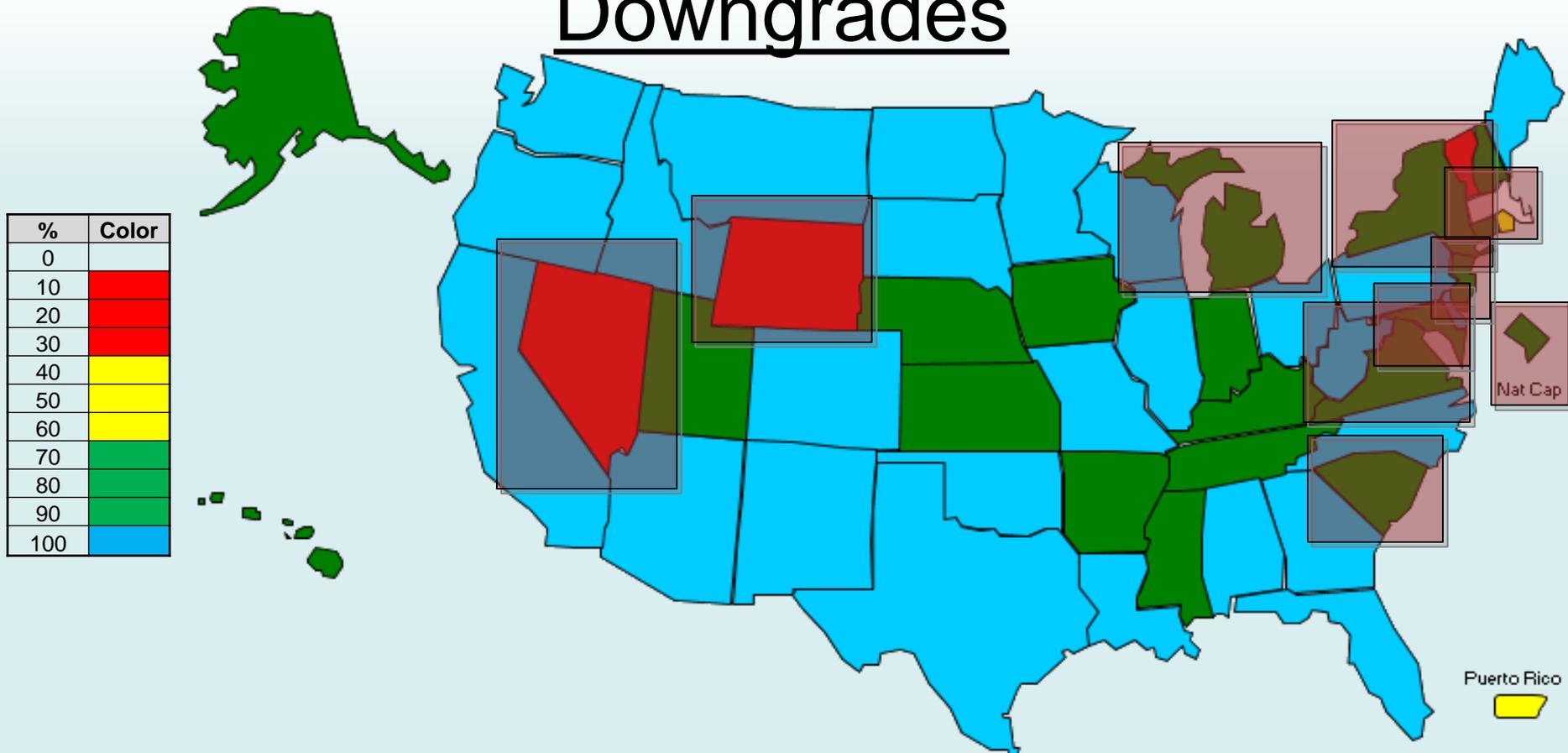
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National Traffic Net Sustained Performance

Rolling Year – 21 JUL 2017 to 19 JUL 2018

Downgrades



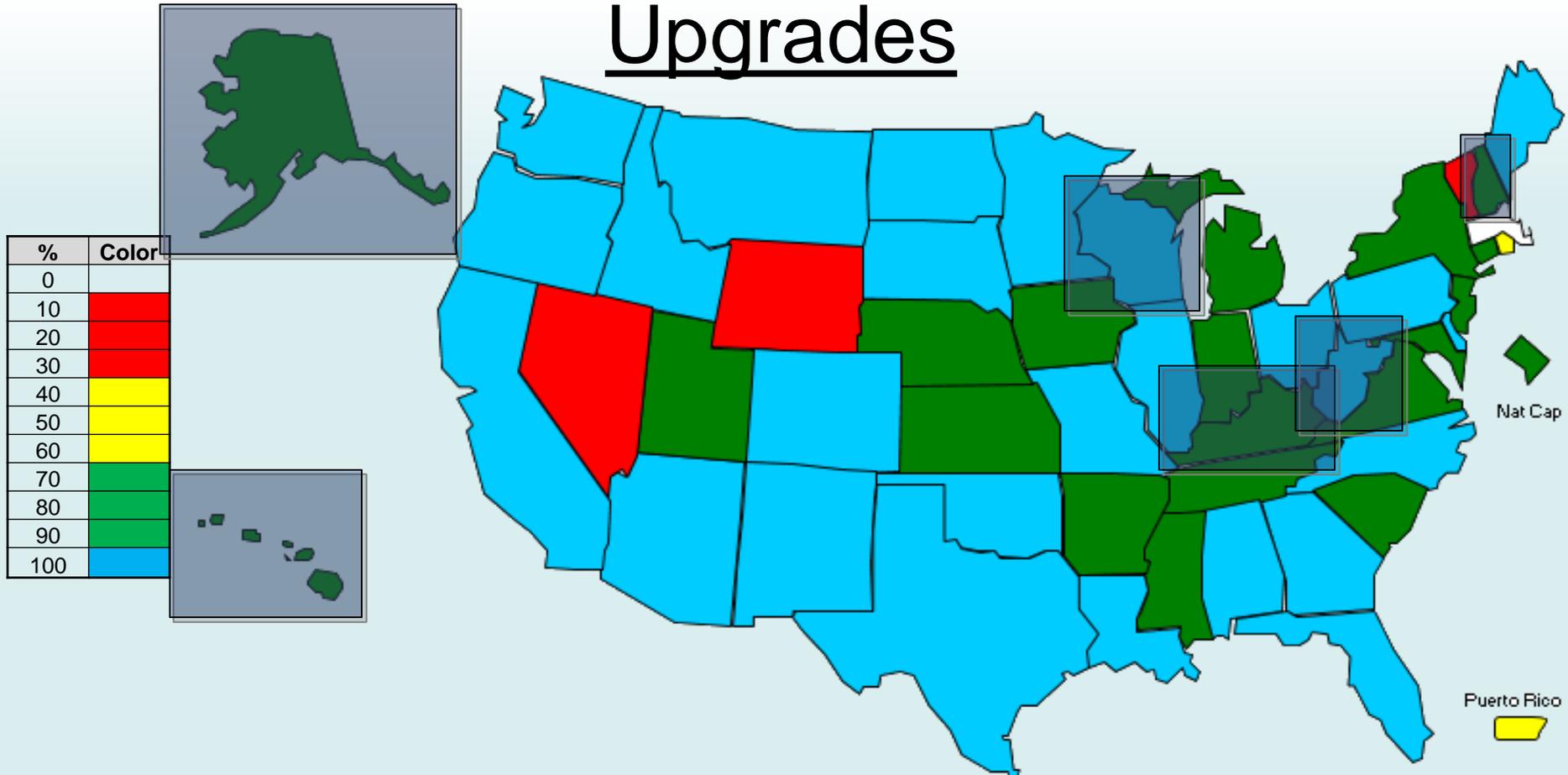
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National Traffic Net Sustained Performance

Rolling Year – 21 JUL 2017 to 19 JUL 2018

Upgrades



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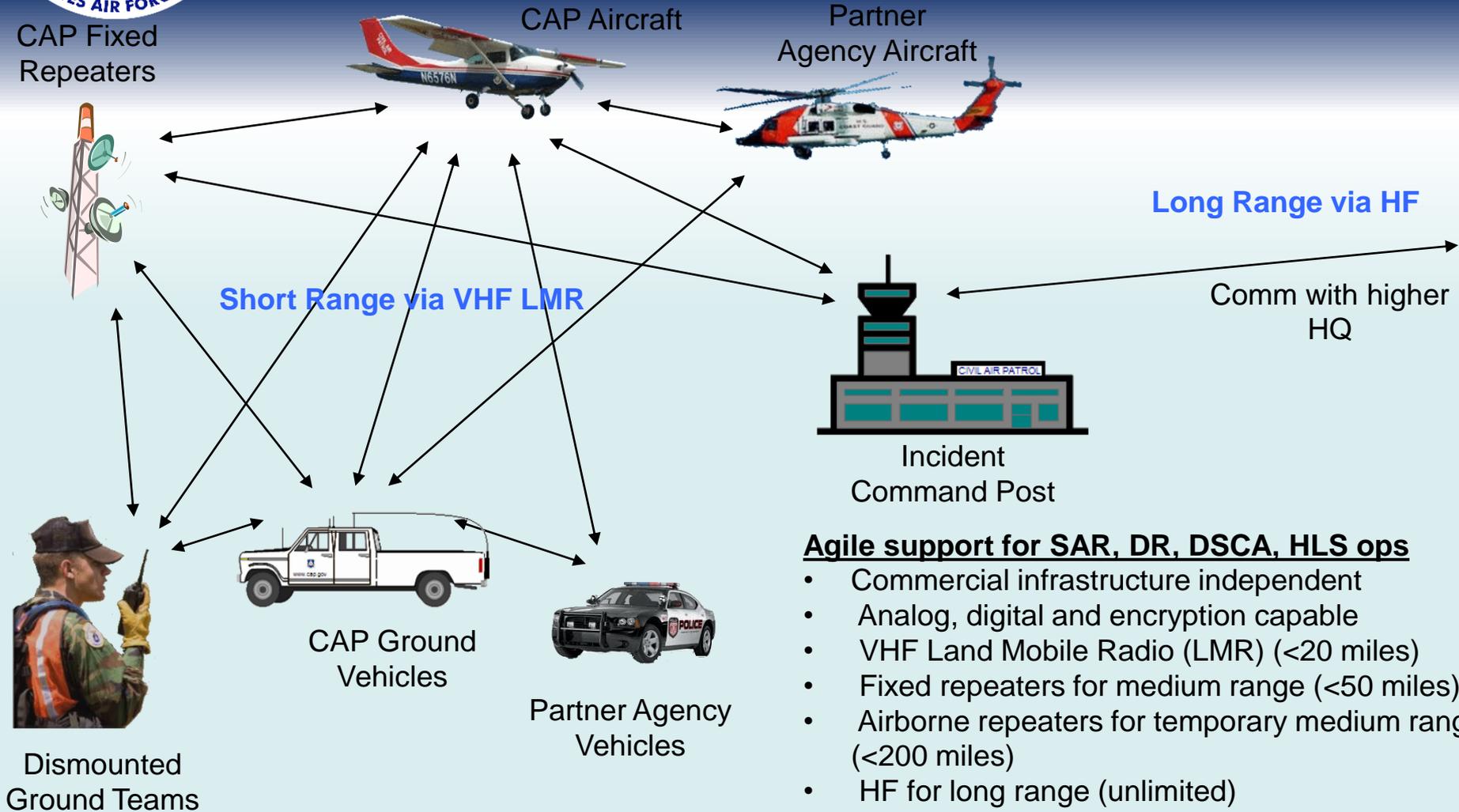


Comm Program Changes

- Reduce HF Bases
- Reduce HF Mobiles
- New HF Data Terminal
- Reduce LMR Mobiles
- Reduce LMR Hand-Helds
- Introduce Key Loaders
- Eliminate Intra Squad Radios (ISR)
- Introduce Internet Remote Radio
- Reduce Repeaters



CAP Communications System



Agile support for SAR, DR, DSCA, HLS ops

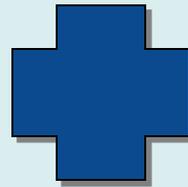
- Commercial infrastructure independent
- Analog, digital and encryption capable
- VHF Land Mobile Radio (LMR) (<20 miles)
- Fixed repeaters for medium range (<50 miles)
- Airborne repeaters for temporary medium range (<200 miles)
- HF for long range (unlimited)
- Fully interoperable with all partner agencies

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Introduces Internet Remote Access

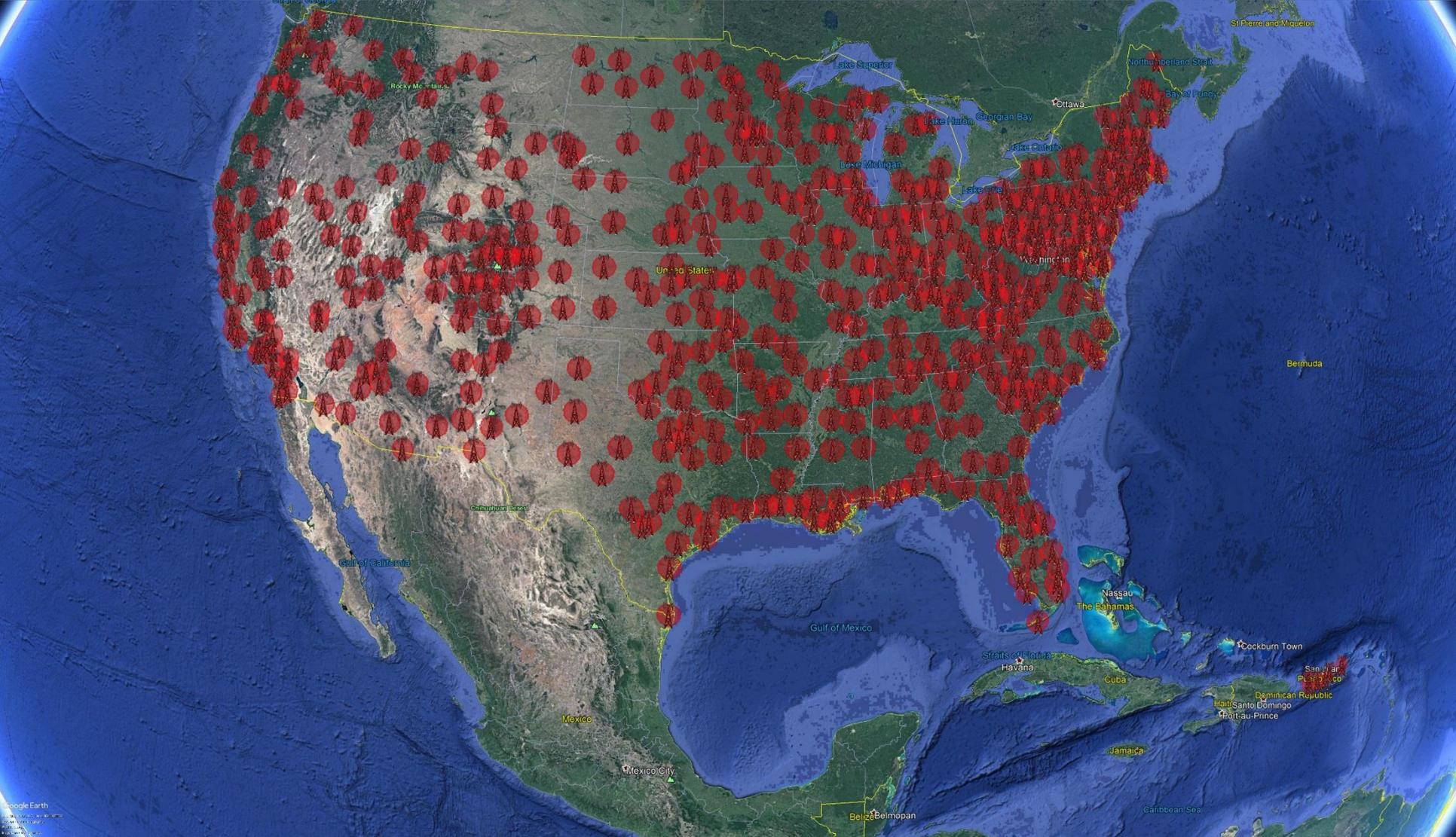
- Internet remote base stations (ReadyOp)
 - LMR base station connected to an internet gateway
 - Allows operation of LMR systems at great distances
 - Repeater remote access
 - Repeater replacement



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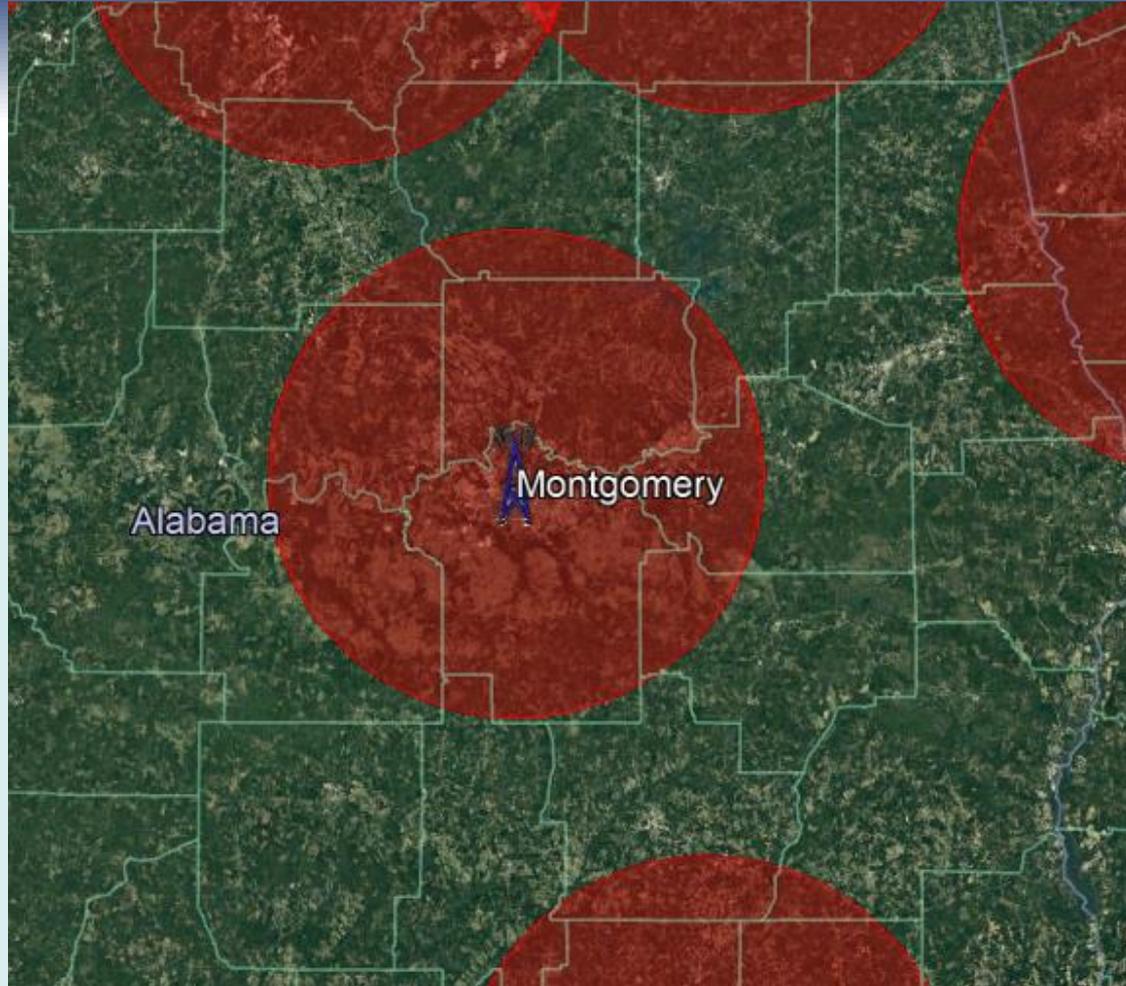


Nationwide Repeater Map





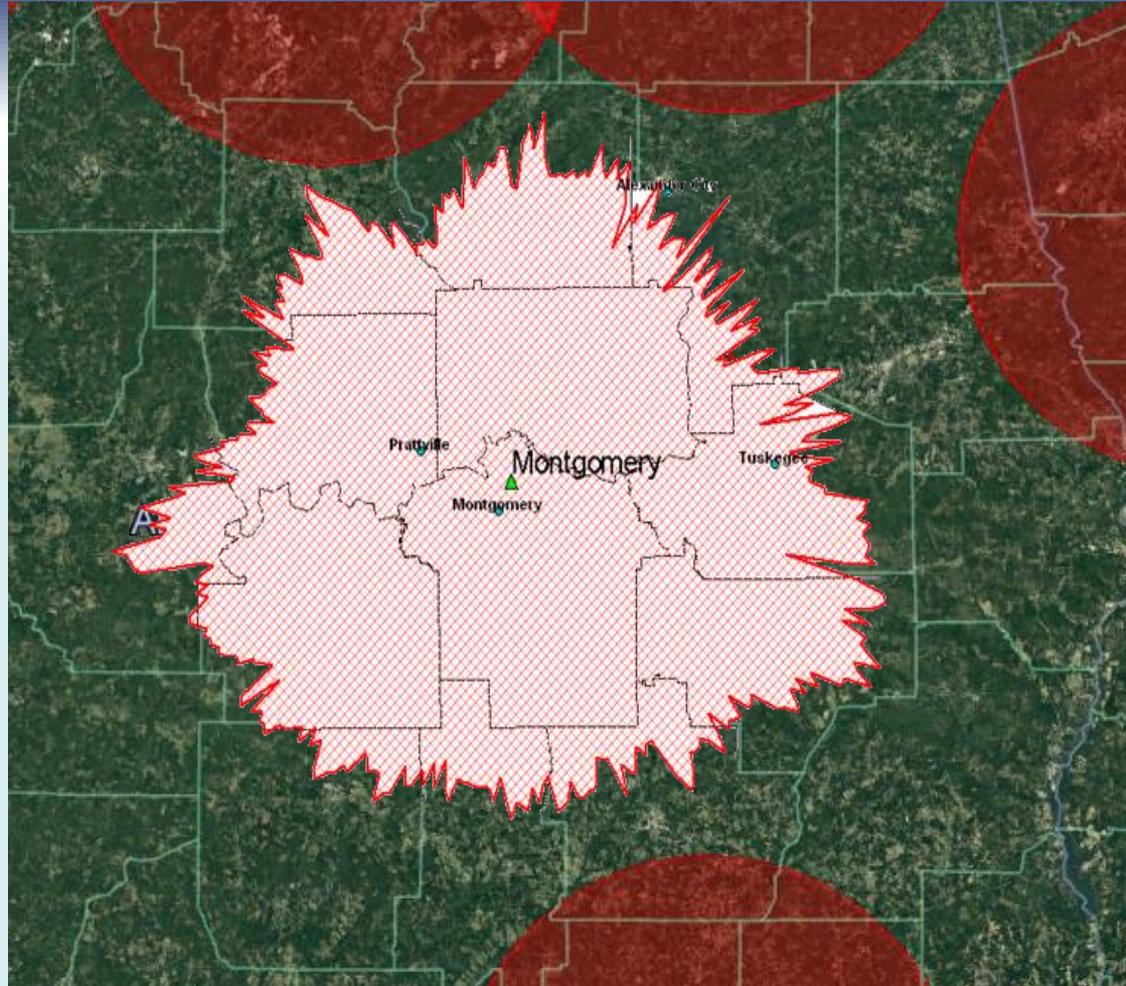
Montgomery – 30 Mile Radius



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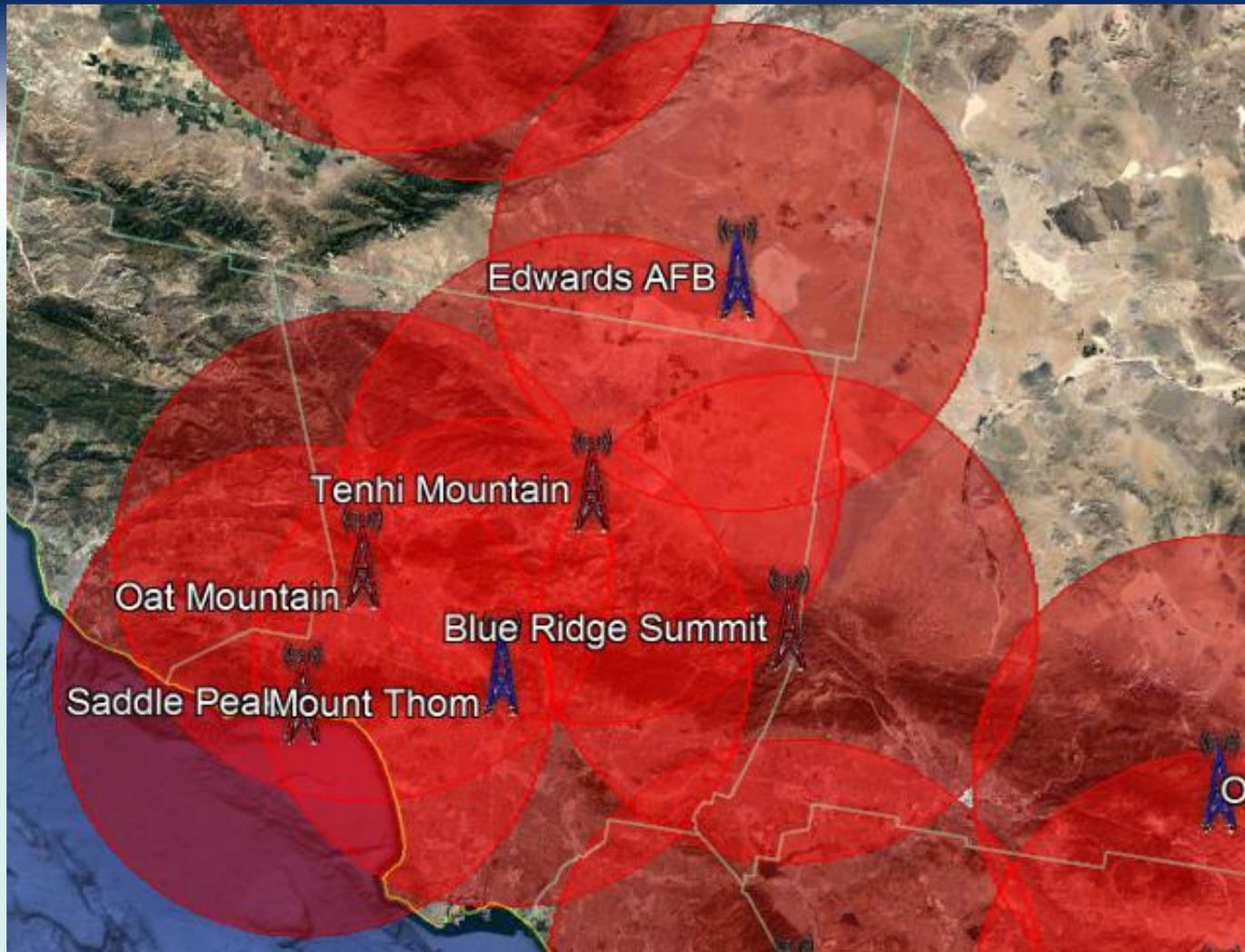
Montgomery Coverage



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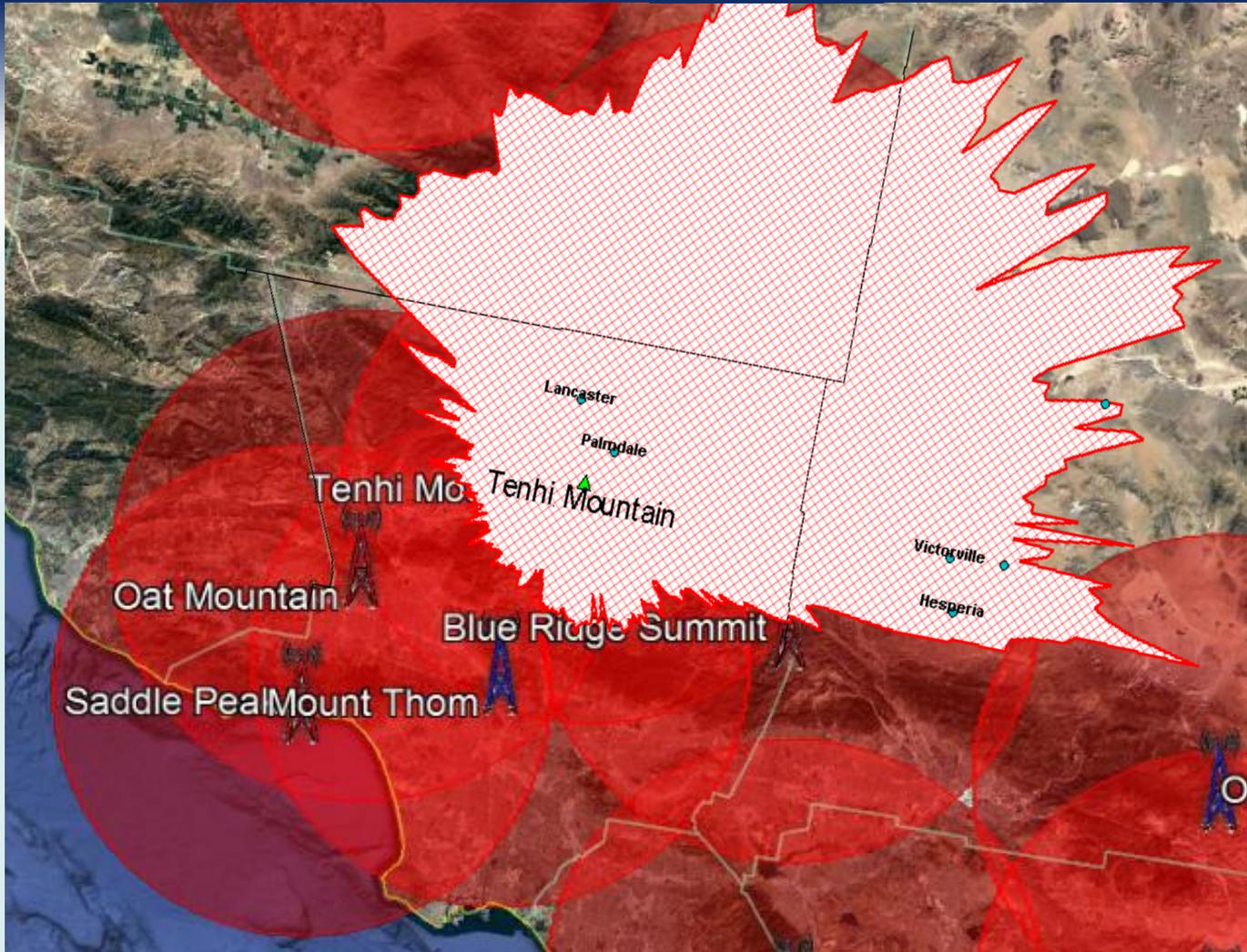
Potential Overlapping Coverage Example – Tenhi Mtn.



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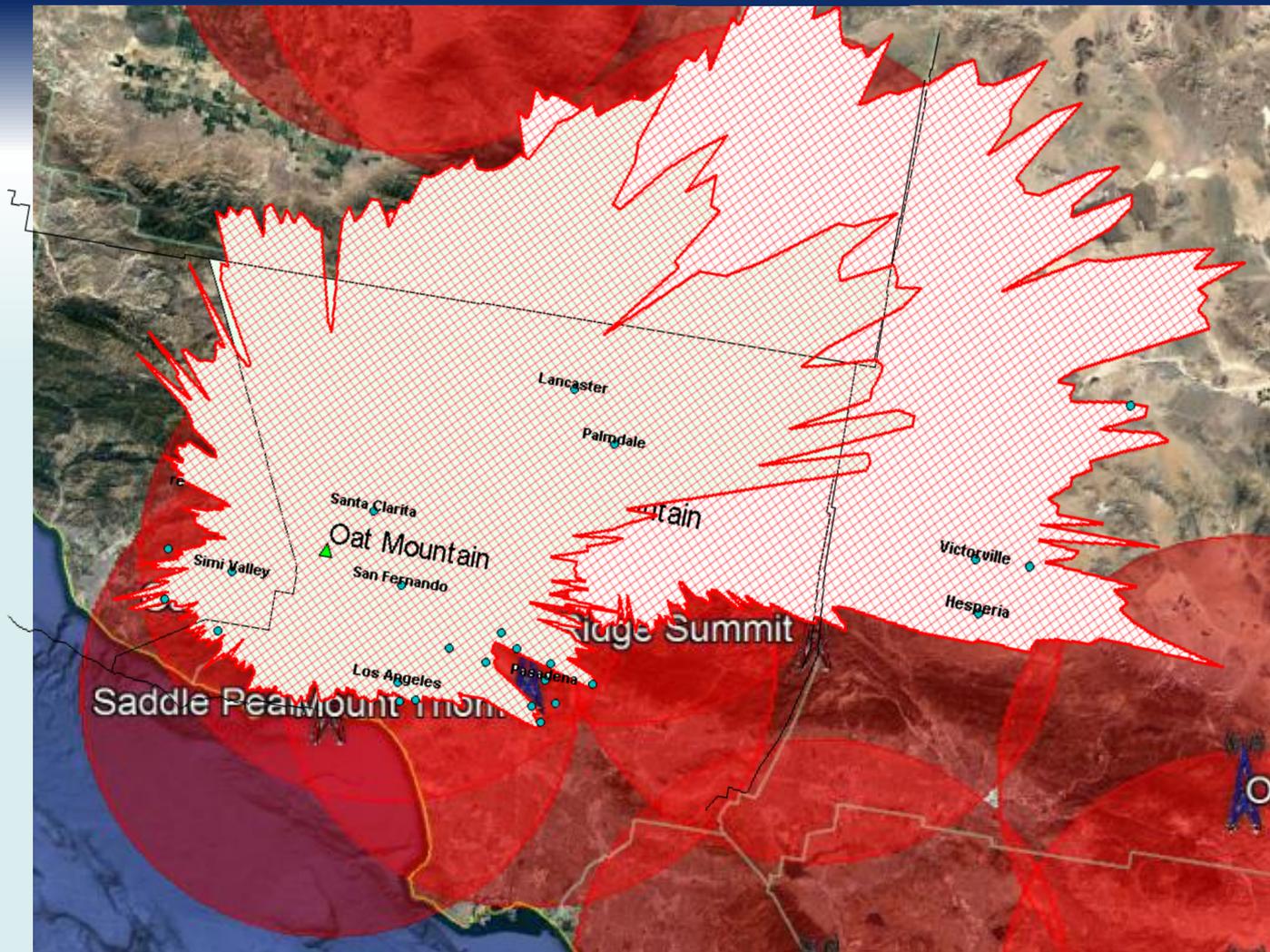
Potential Overlapping Coverage Example – Tenhi Mtn.



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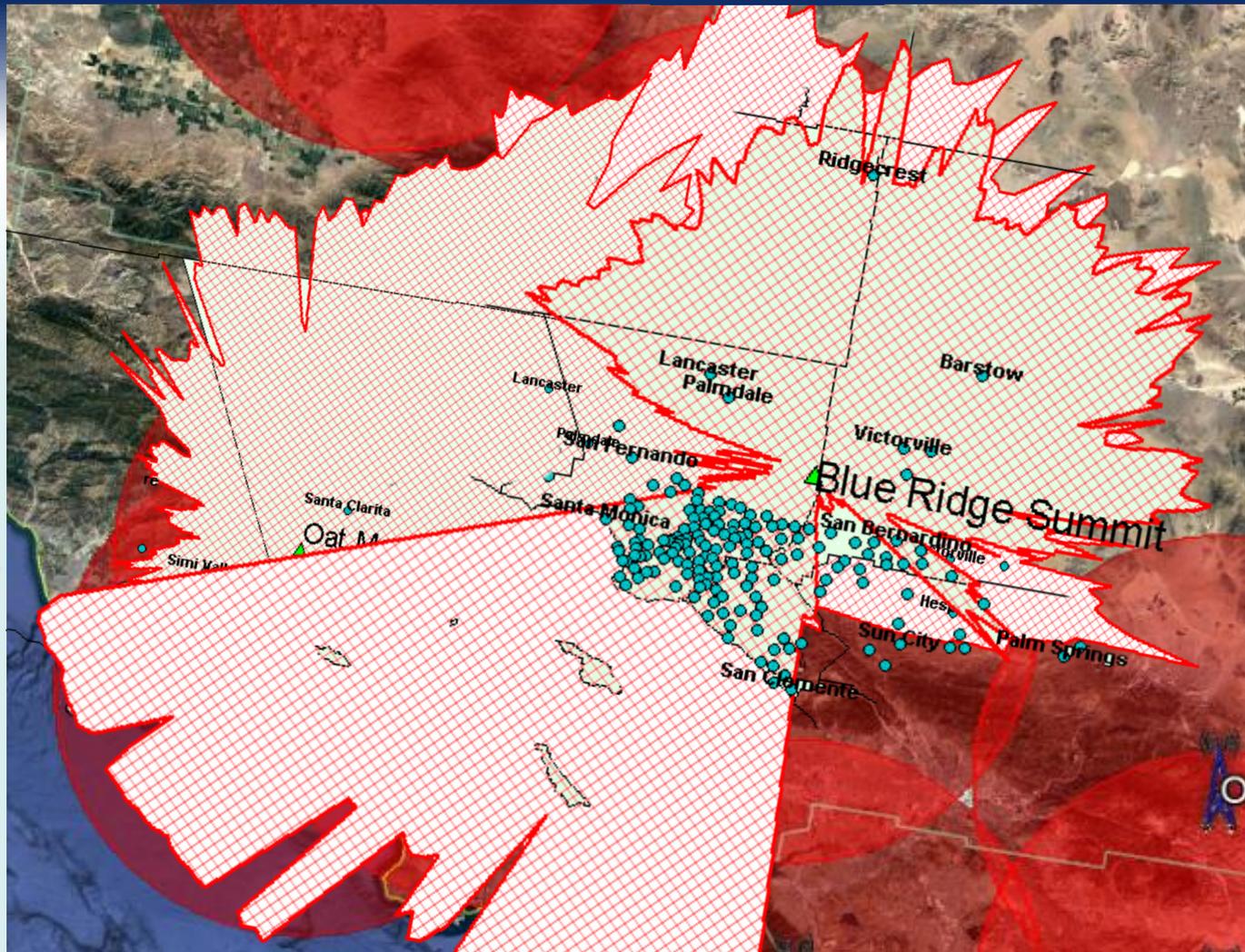
Potential Overlapping Coverage Example – Tenhi Mtn.



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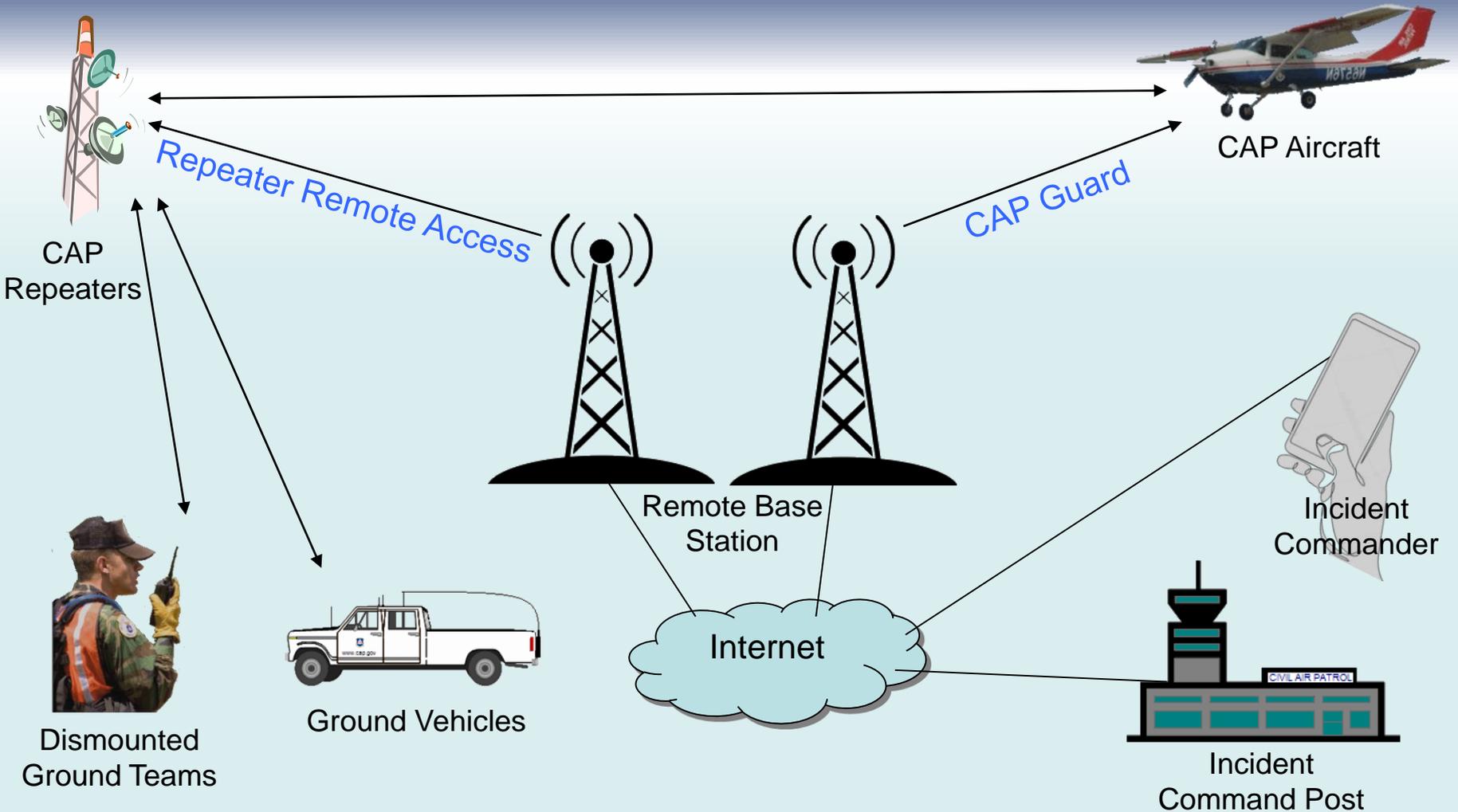
Potential Overlapping Coverage Example – Tenhi Mtn.



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Remote Base Options



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Youth Aviation Initiatives

- In May of 2017 CAP/DO briefed the CSAF at the National Pilot Sourcing Forum with support of the CAP/CC and CAP-USAF/CC
- In late June of 2017 CAP was notified that the proposal was funded starting in FY19



Civil Air Patrol Proposals

- \$400K annually to fly AFROTC & AFJROTC cadets
- \$1M annually to fund flight training of CAP cadets as an Air Force Assigned Mission
- Establish delayed enlistment and commissioning programs for cadets that earn their Private Pilot's License or complete a cadet orientation flight program
- \$500K annually for Science Technology Engineering and Math (STEM) Outreach
- \$250K to 500K annually for cadet career exploration activities

Total = \$2.4M Annual Investment



Breaking Barriers ... Since 1947

8

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MOAWG & Re-baselining Missions

- DSCA
- Cell & Radar Analysis
- Airborne Reconnaissance
- Full Motion Video
- Communications Relay
- Tactical & Long Haul Connectivity
- Ground Teams
- Small UAS
- Incident Management Teams & Incident Staff
- Shelter Management
- Point of Distribution/Dispensary
- Air Defense Intercept Training
- Low Level Route Surveys
- Range Support
- RPA Escort Support
- Emergency Transportation
- Public Affairs
- Orientation Flying
- Cadet & Senior Member Flying
- Mobile ICPs
- Airdrop Operations
- Green Flag Simulations
- GIS Specialist
- Ops Training, Evaluation & Prof.

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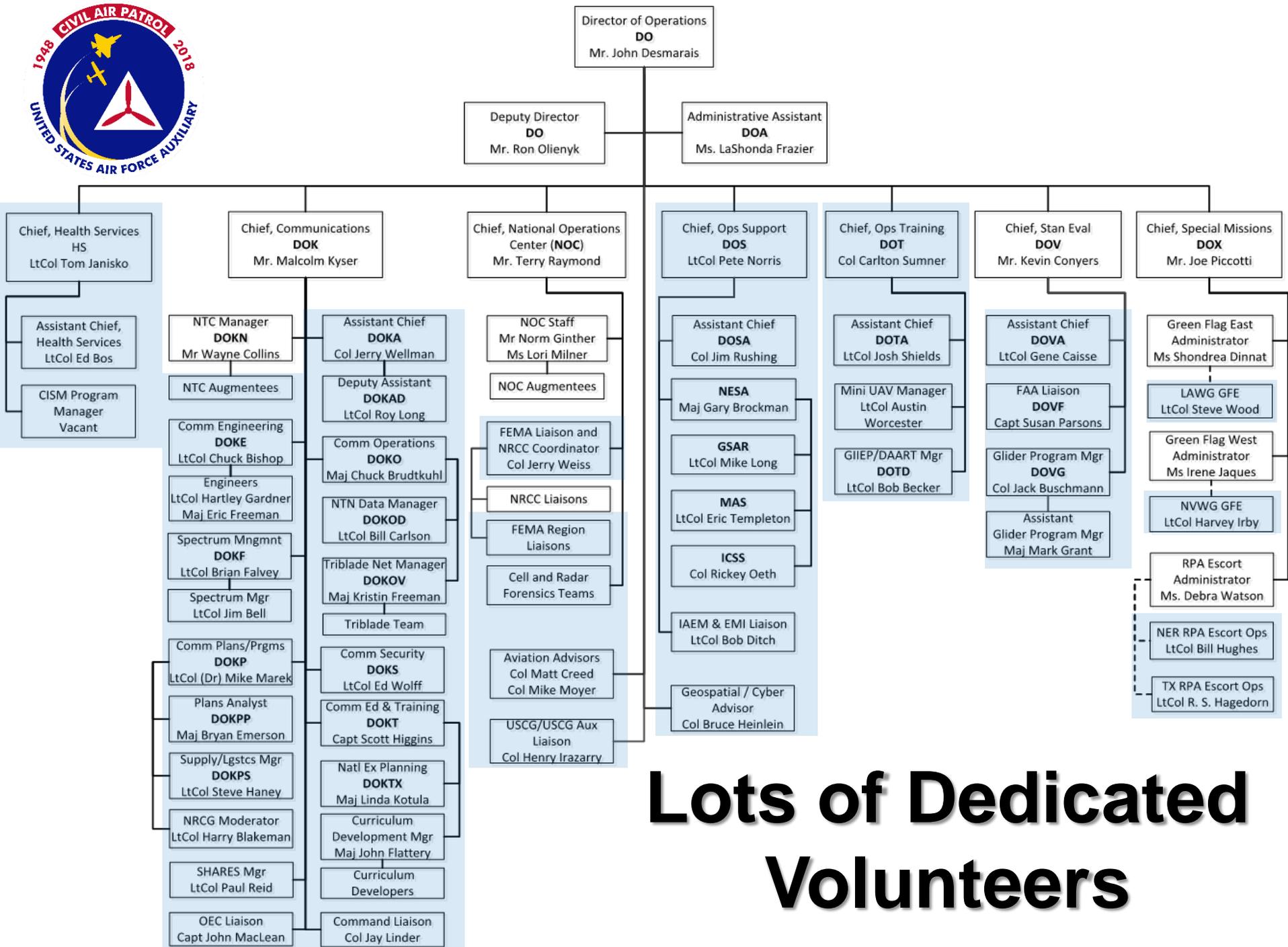
What Else Is Coming?

- **60-1G ICL/Change & Glider Pamphlets**
- **60-3 ICL/Change**
- **100-1 ICL/Change**

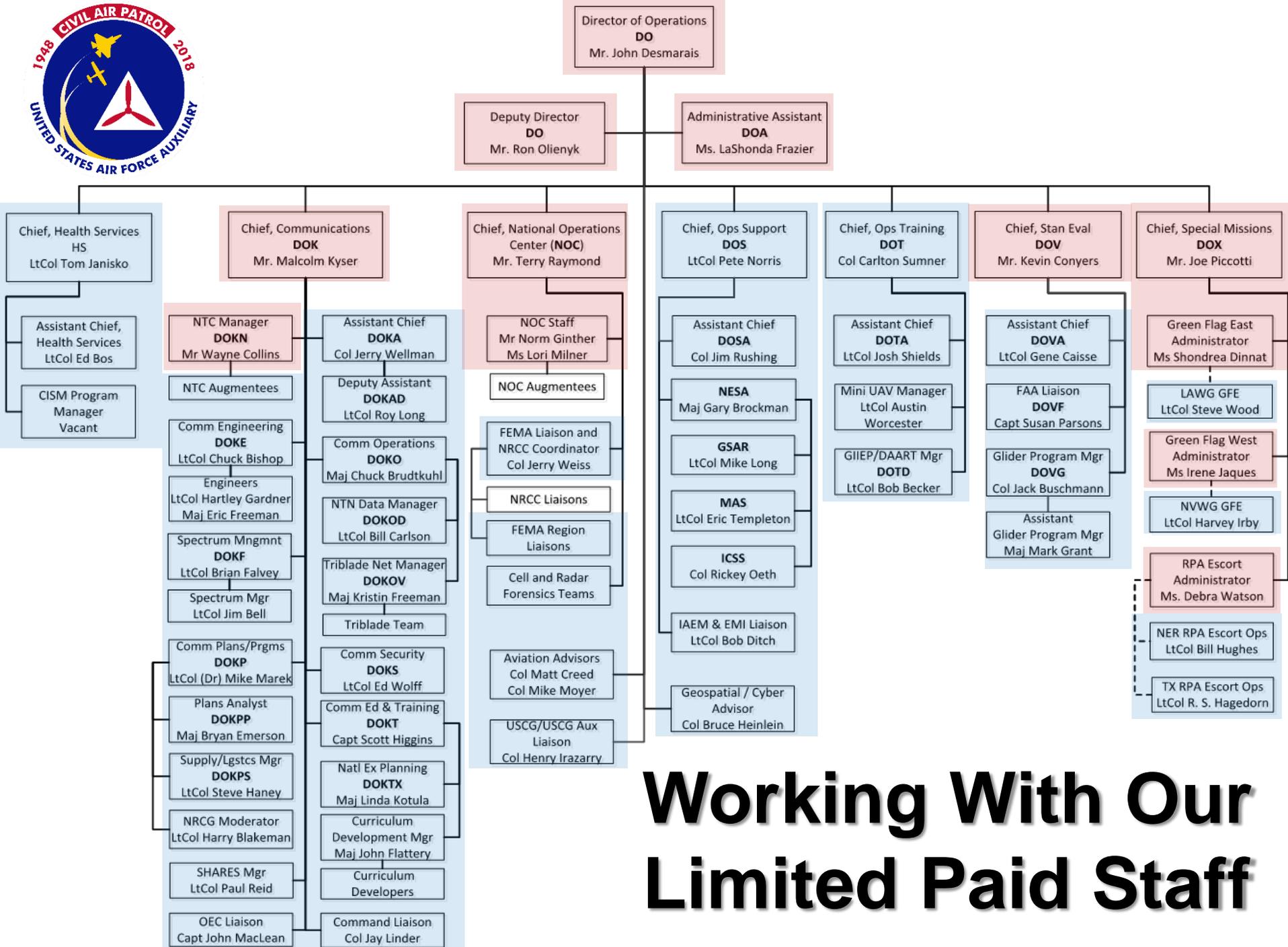


New & Expanding Missions

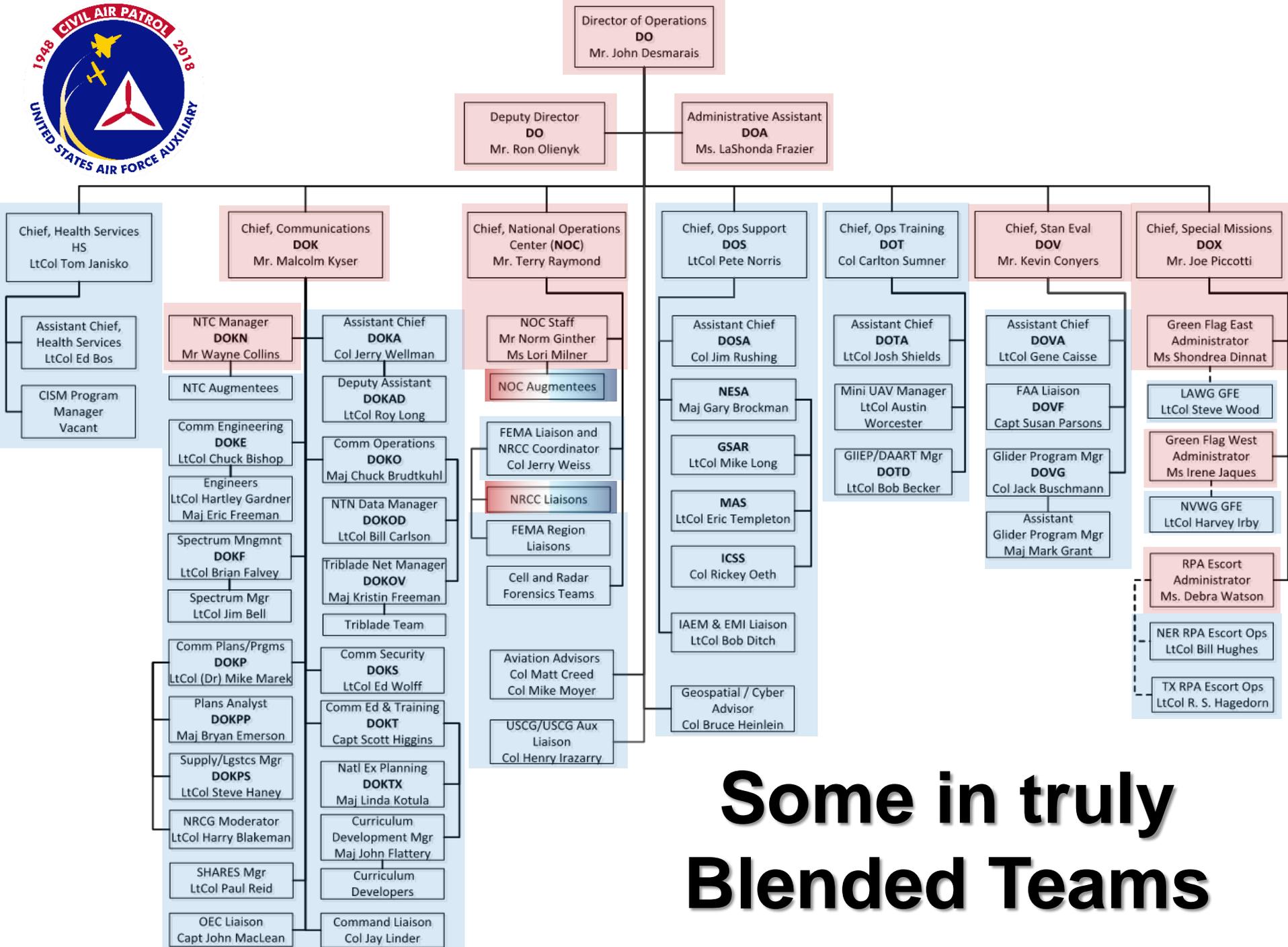
- **Communications Support**
- **sUAS & Counter sUAS Support**
- **AFROTC & AFJROTC Orientation**
- **Cadet Flight Instruction**
- **Parachute Operations**
- **Geospatial Information Systems Teams**



**Lots of Dedicated
Volunteers**



Working With Our Limited Paid Staff



**Some in truly
Blended Teams**



Thank you for your continued support!



QUESTIONS?



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