

NATIONAL NIGHT AIR OPERATIONS

Pacific Southwest Regional Aviation Group

Night Flying Aerial Supervision Platform



FOREST SERVICE AVIATION TECHNOLOGY AND IT INVESTMENT PROJECT OVERVIEW

Project Name: NightWatch

Project POC: Pacific Southwest Region

Project Aviation Branch: WO Aviation Operations, R5 FAM

Purpose/Objective:

- ▶ Provide Aerial Supervision for agency aircraft during night flying missions in SOPS GACC.
- ▶ Provide Operational intelligence via radio communication and near real-time incident mapping with FMV.



NIGHTWATCH

Staffing:

- ▶ One Pilot (Contractor)
- ▶ One Mechanic (Contractor)
- ▶ 1 ATGS (USFS) additionally trained as a sensor operator (FLIR, GeoFOCIS)
- ▶ 1 Sensor Operator (Contractor or Agency ATGS)

Operational Control:

- ▶ Pacific Southwest Region, Operations Southern California.

Ordering:

- ▶ Ordered through Aircraft Coordinator as “Fixed Wing Air Tactical”
 - In remarks specify need; Aerial Supervision, IR Mapping, FMV, Operational Intelligence. Aerial Supervision is the primary mission.

Receiving Unit:

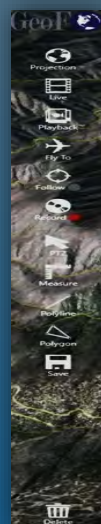
- ▶ Provides aircraft dispatcher, email contact, distribution contacts for final products.
 - NightWatch staff emails a google drive link to host unit via agency outlook account.





CURRENT OPERATIONAL STATUS

King Air 200/C-12 Registration: N40Y



Projection Button
Live Button
Video Viewer
Playback Button
Fly To Button
Follow Button
Recording Button
PTZ Button
Measure Button
Polyline Button
Polygon Button
Save Button
Delete Button
Map Layers
Compass
Zoom
Pan
Tilt



Star Sapphire
380 HDc

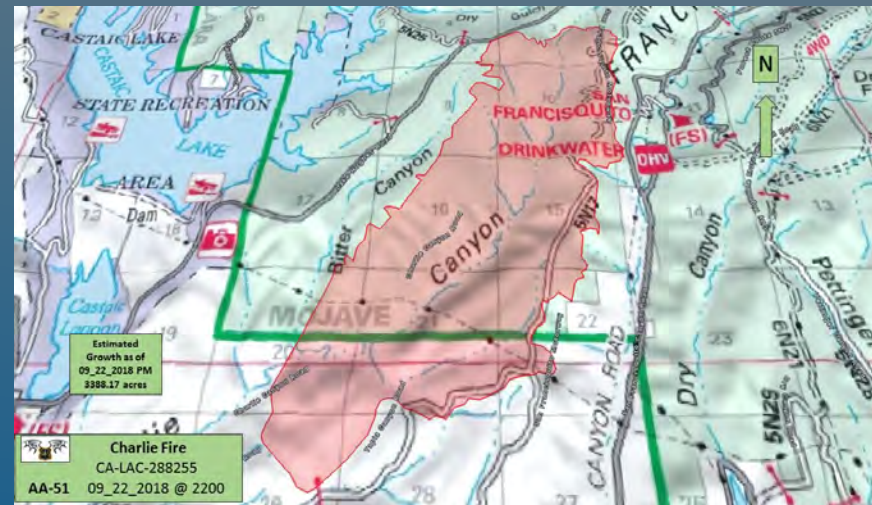
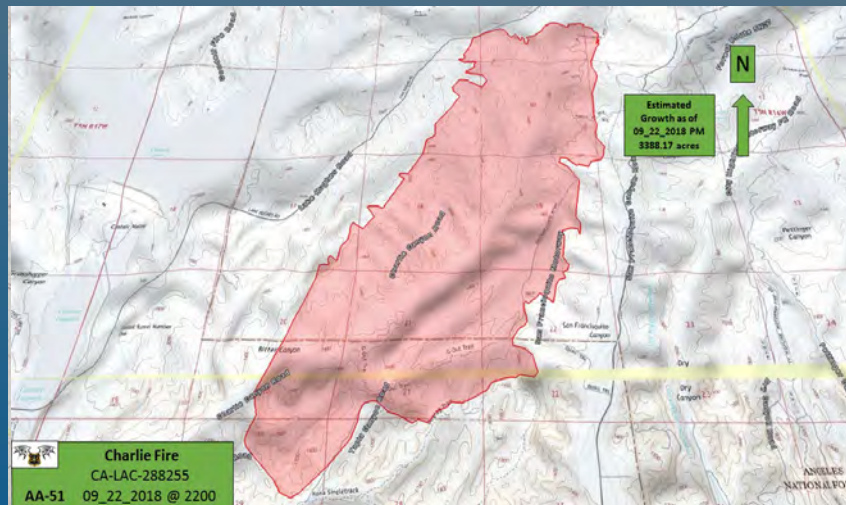
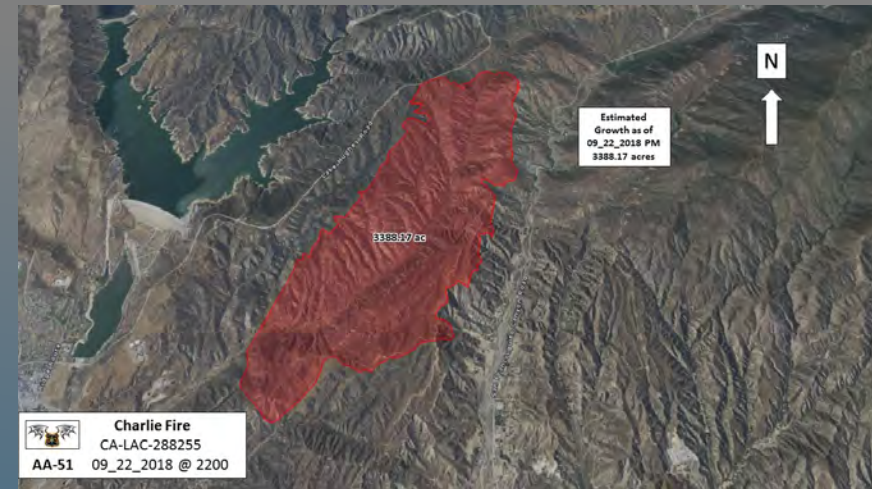
- Combined systems offer
 - Aerial Supervision
 - Operational FMV
 - Mapping



CURRENT DELIVERABLES

New Fire / Fire Growth Mapping:

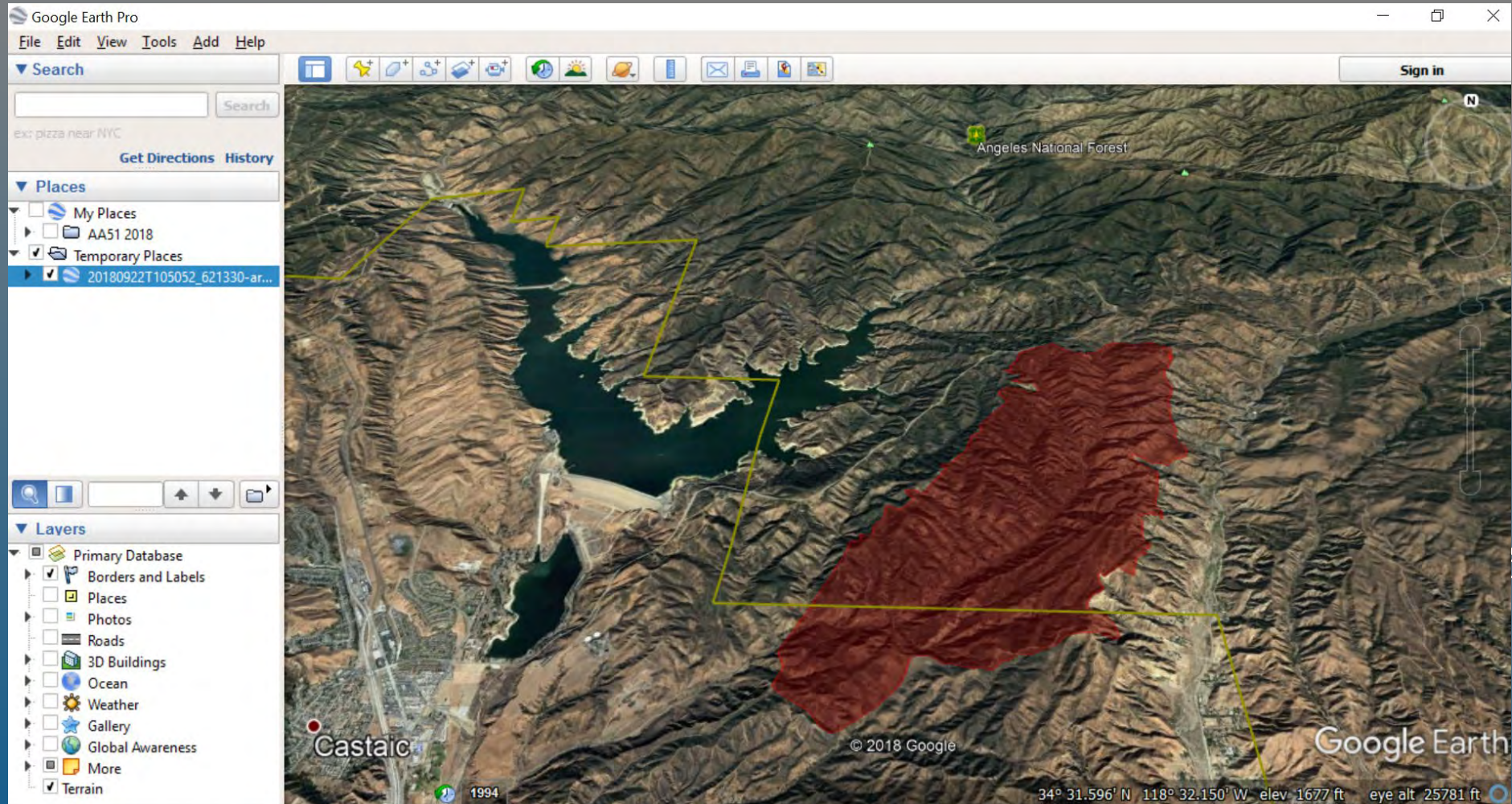
- JPEGs fire perimeter
- Shape File Data
- KMZ Fire Perimeter





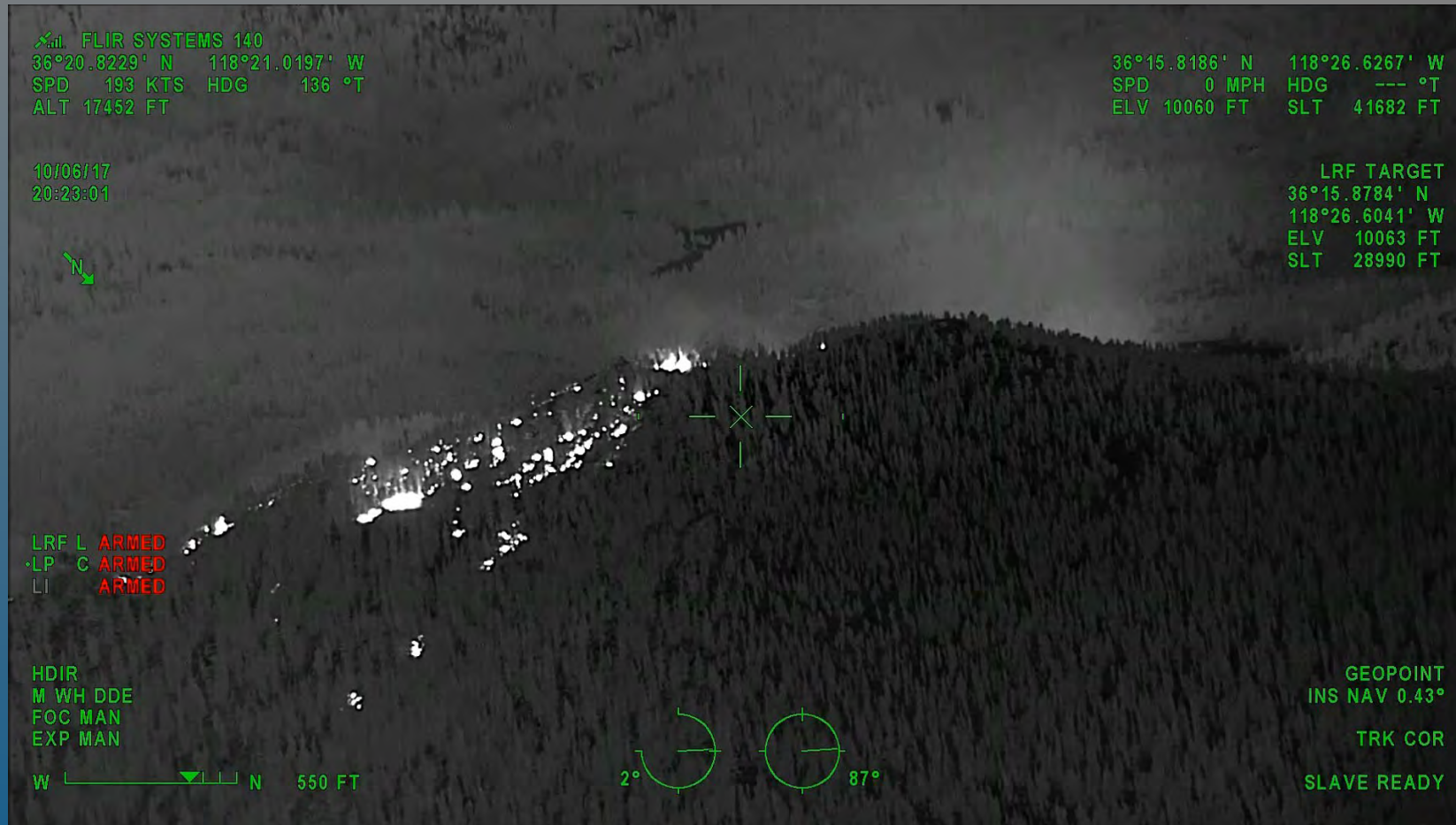
CURRENT DELIVERABLES

.KMZ files

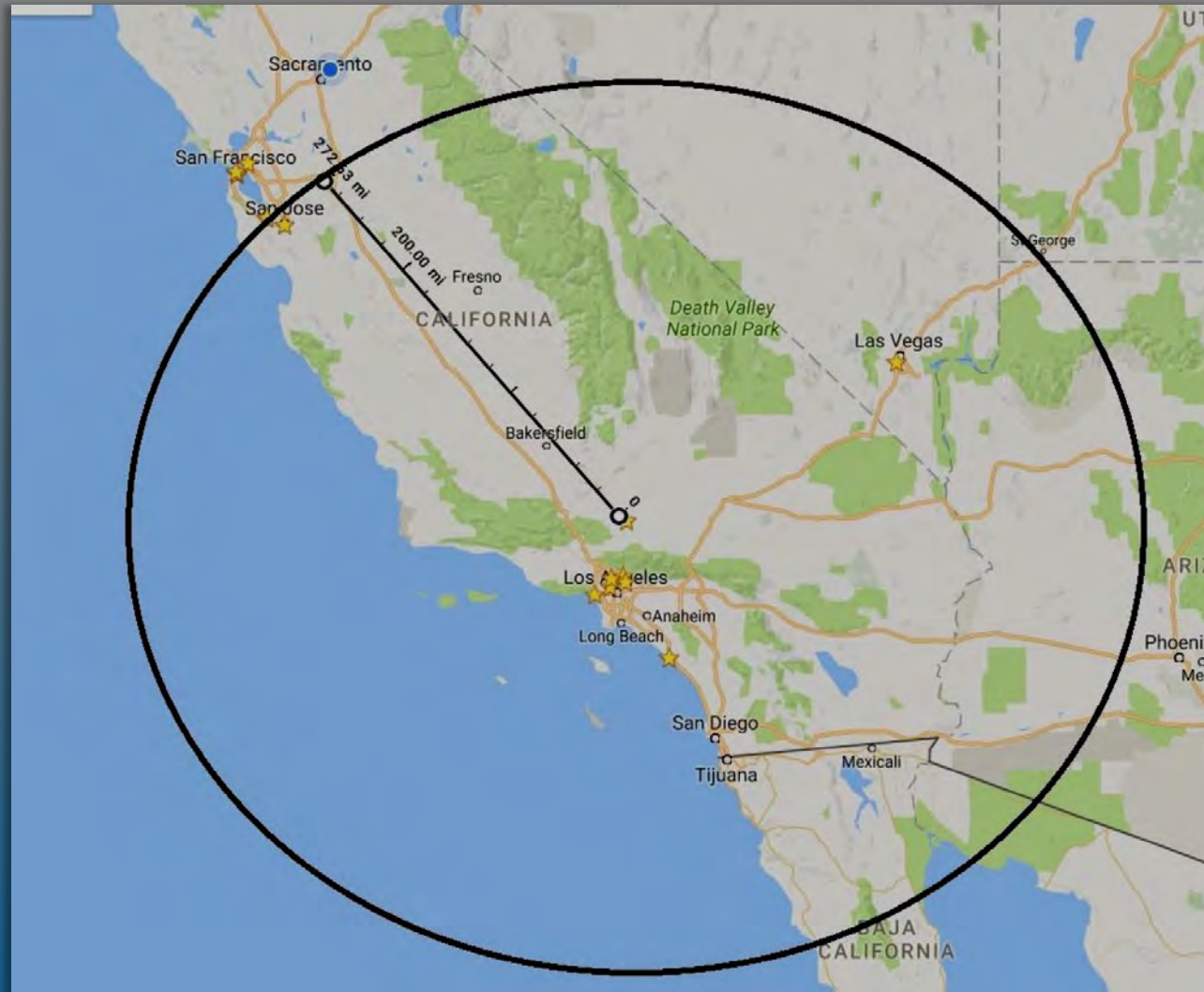




CURRENT DELIVERABLES



One (1) hour Response Map, 240 NM from Fox Field



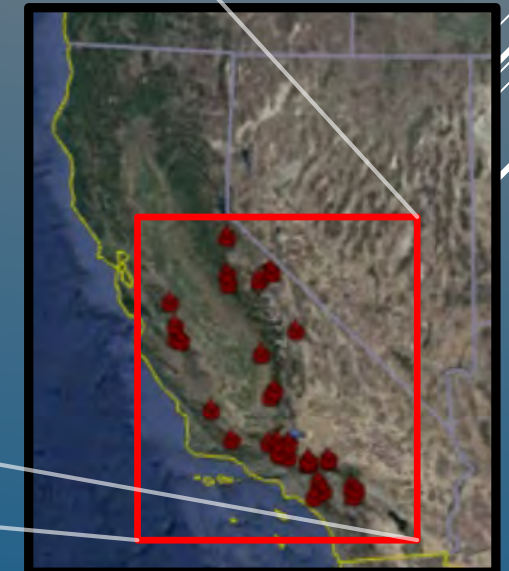
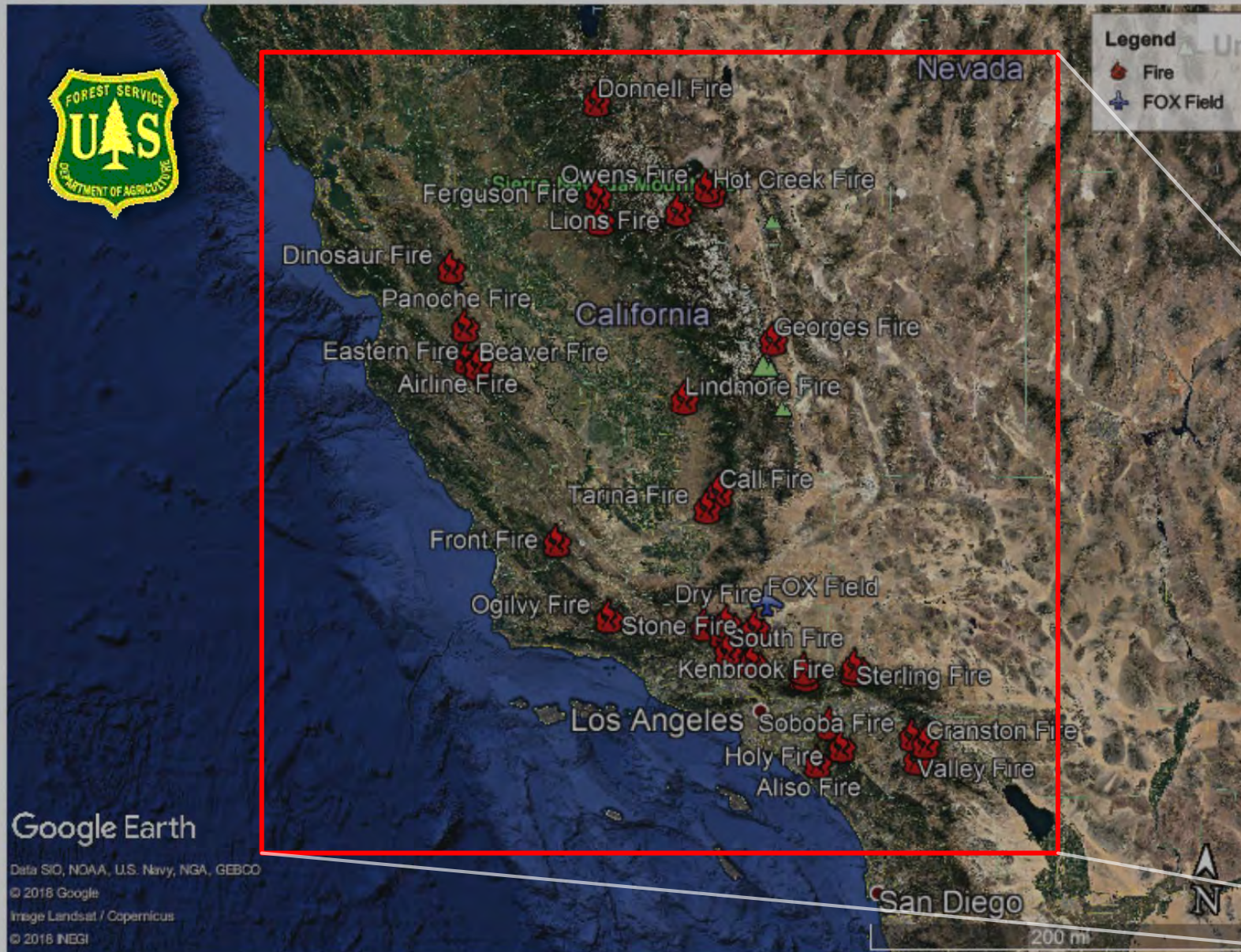
2018 N40Y AA51

SOPS Filled Requests:

99 Federal

13 State

19 Local Government



2018 N40Y AA51

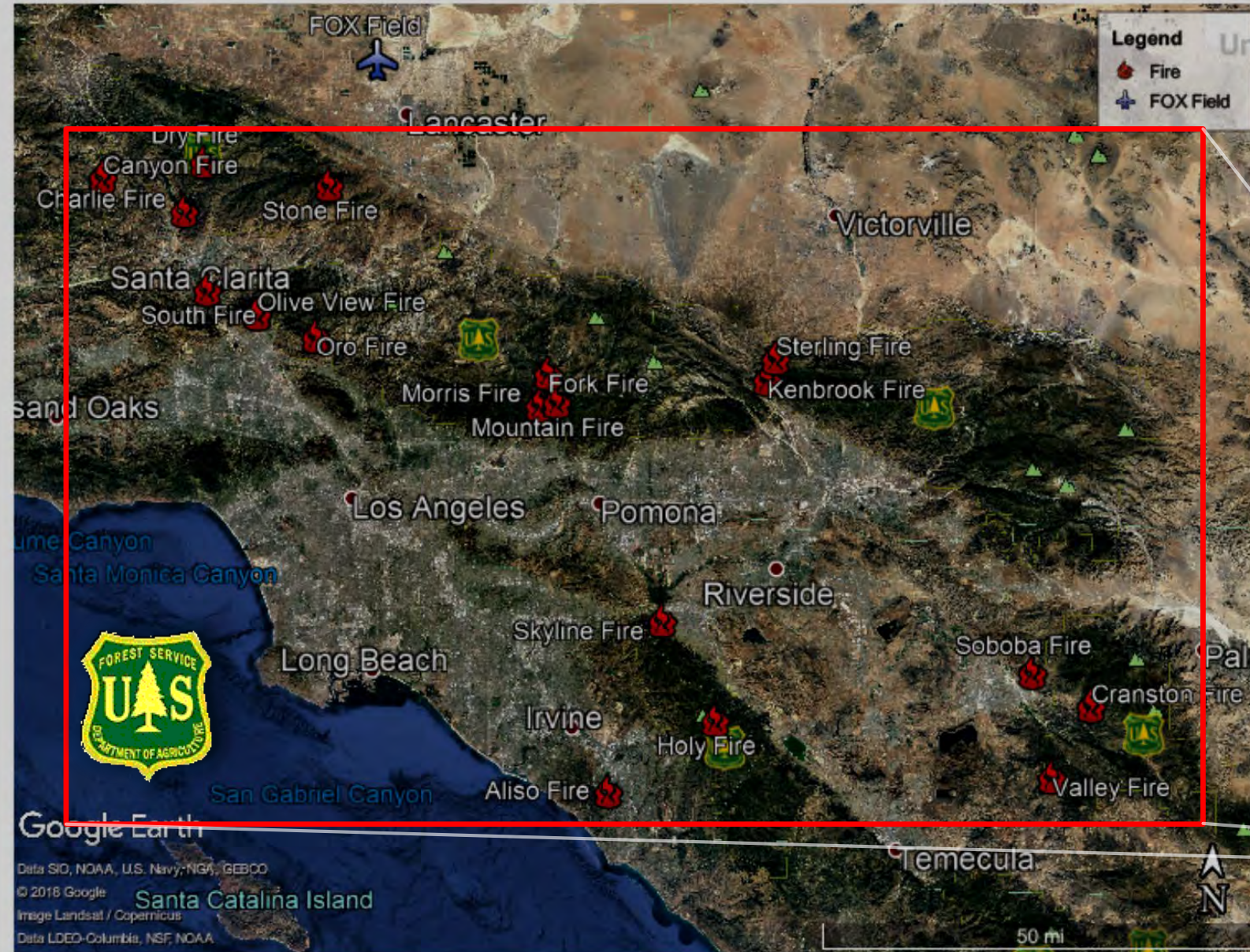
Requests filled
Southern Forests:

LPF

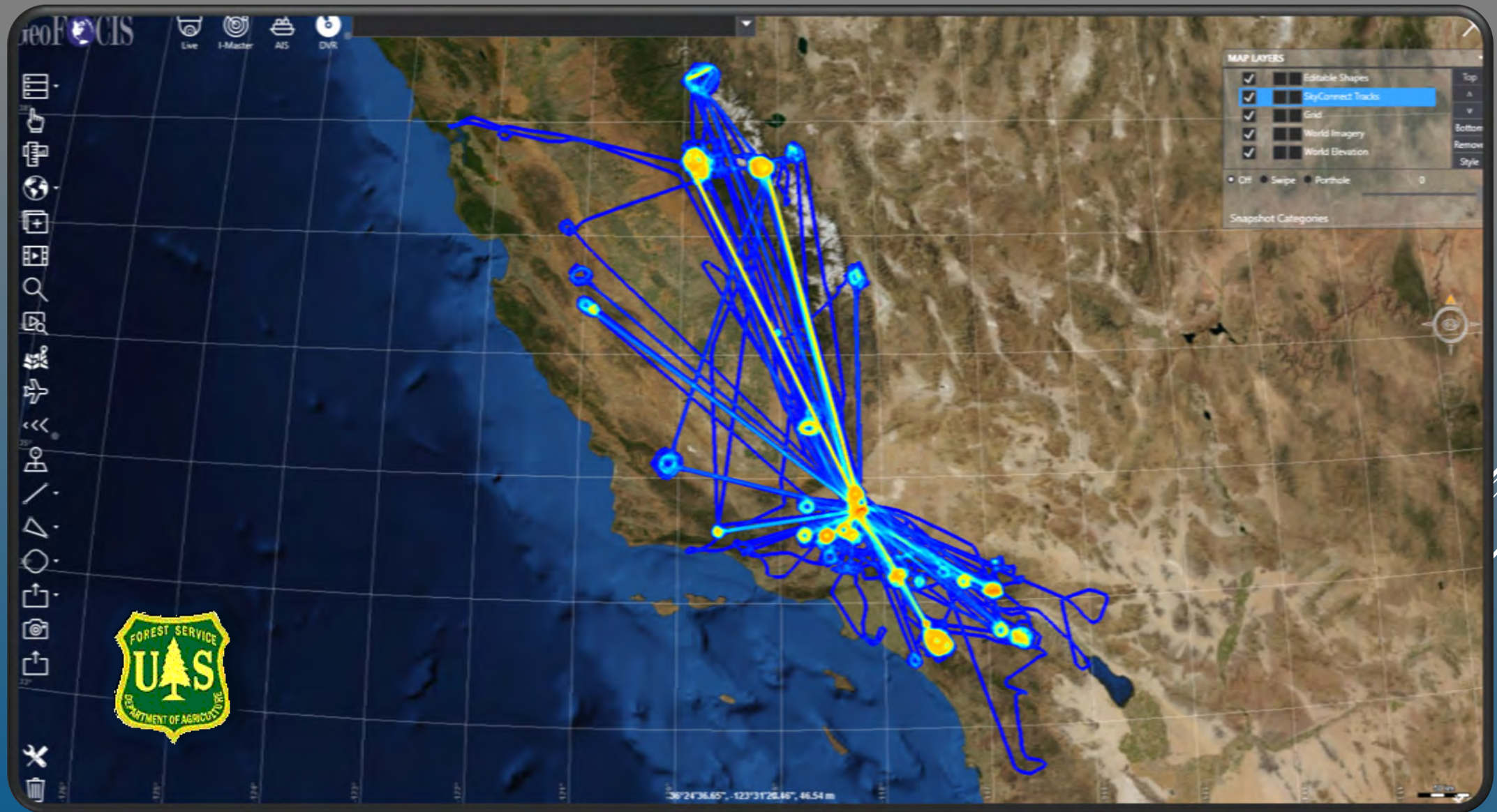
ANF

BDF

CNF

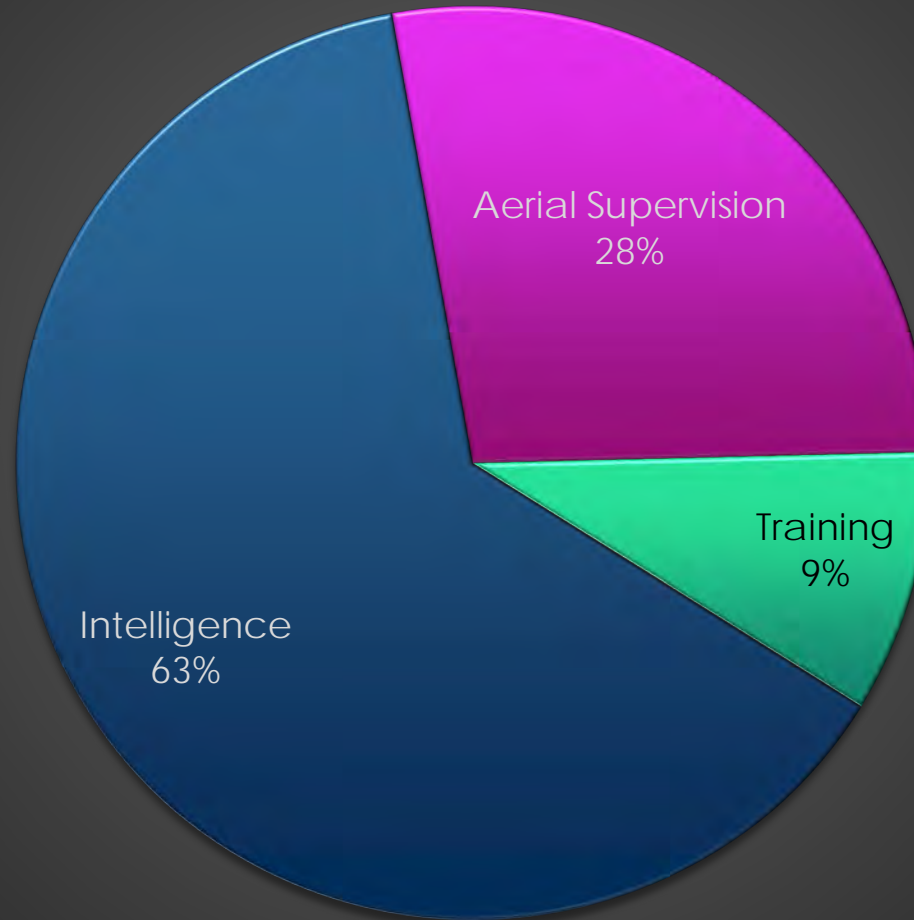


Flight Track Log with Density Emphasis





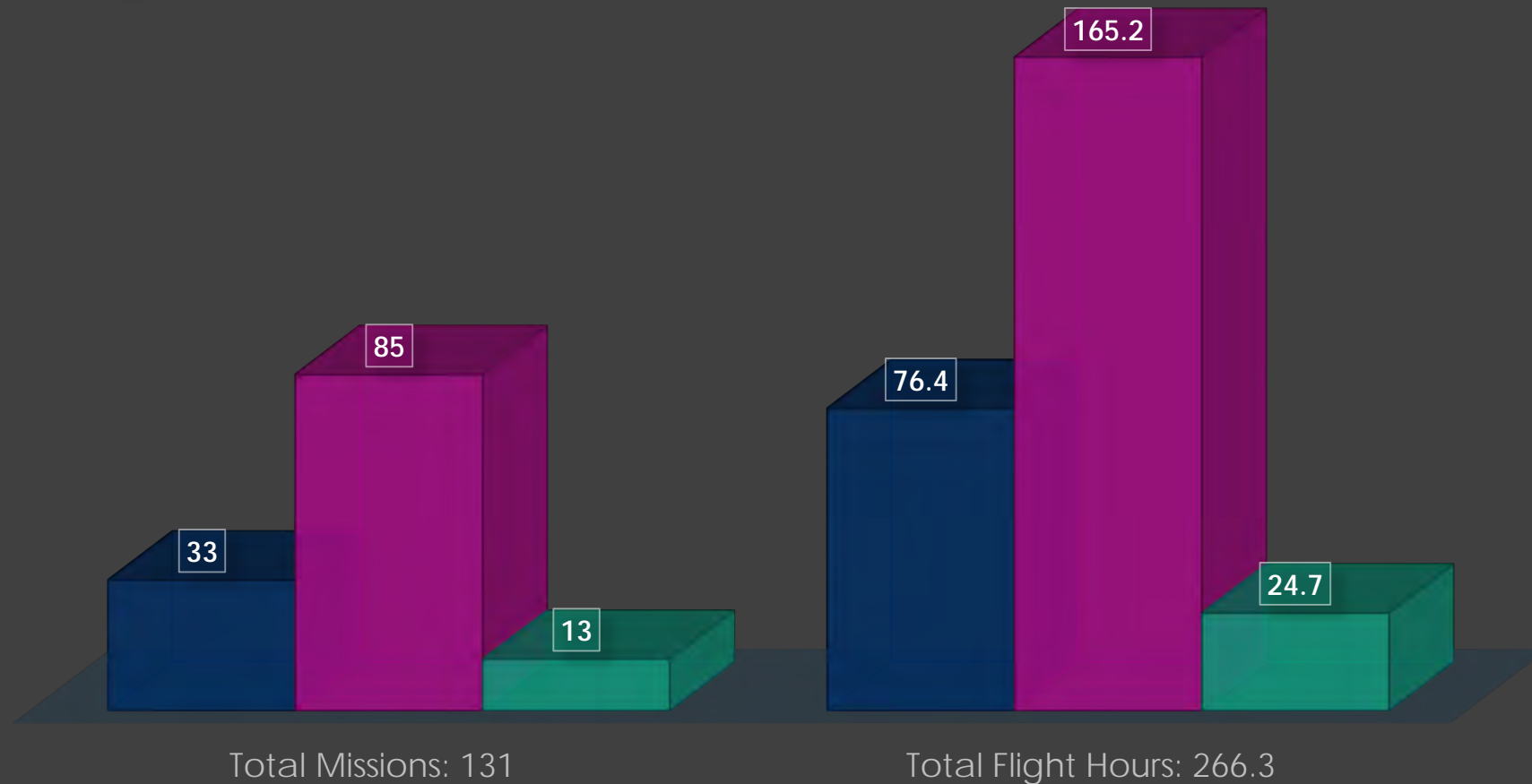
2018 NightWatch Orders





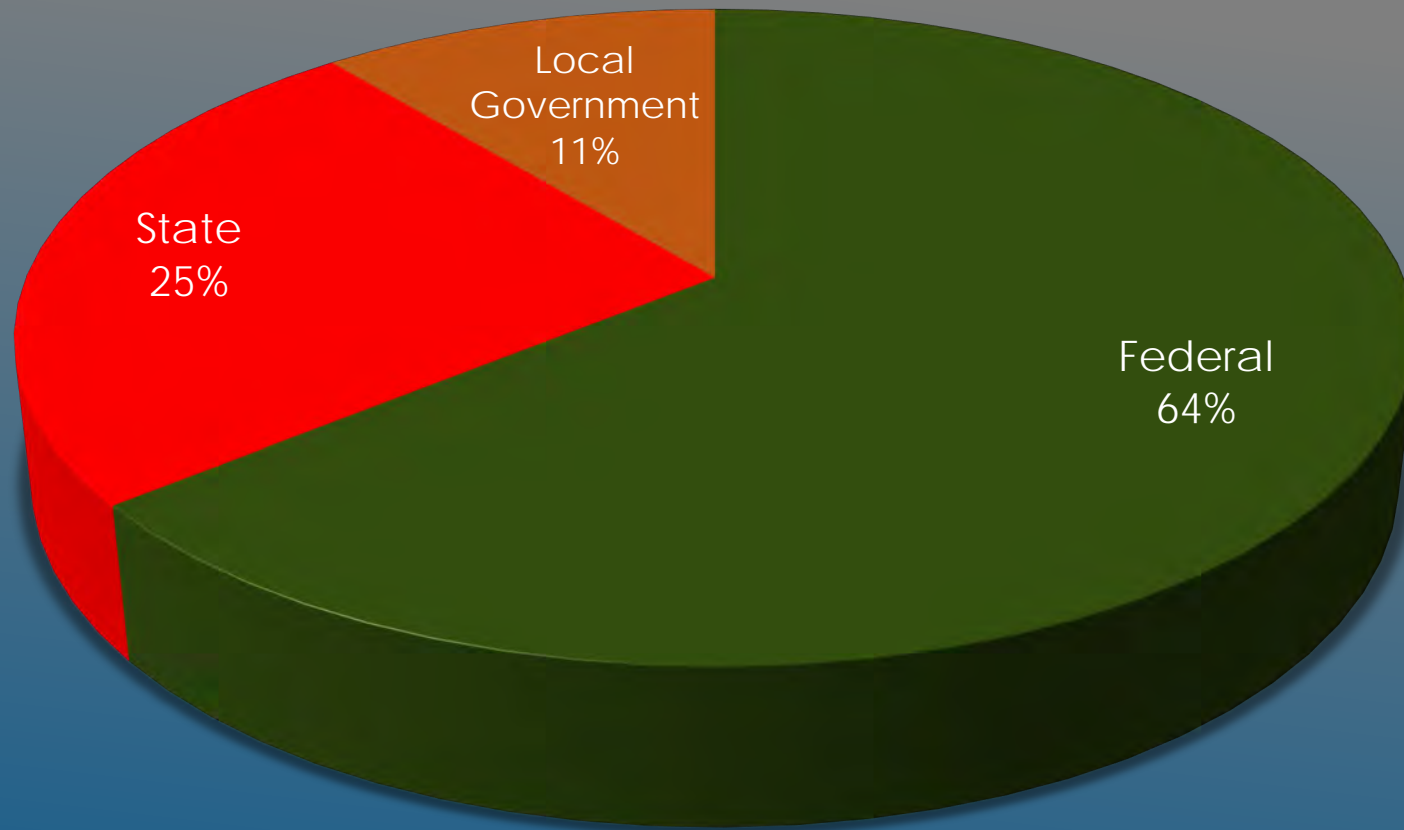
2018 NIGHTWATCH

■ Initial Attack ■ Extended Attack ■ Training





Percent of AA51 Orders by Agency 2018



FLIR SYSTEMS 140
35°36.1144' N 118°21.8275' W
SPD 211 KTS HDG 341 °T
ALT 17364 FT

SPD --- MPH HDG --- °T
ELV 0 FT SLT --- FT

10/06/17
18:28:09



LRF L
LP C
LI

HDIR
M WH DDE
FOC MAN
EXP AUT

W — FT N



IP
INS NAV 1.11°
TRK COR
SLAVE READY

Questions