



GTAC Update on NIROPS- Related Activities

NIROPS 2017 Closeout Meeting

December 13, 2017



USDA Forest Service, Geospatial Technology and Applications
Center,

FSWeb: <http://fsweb.rsac.fs.fed.us>
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Presentation Outline

- NIROPS Website and IR Online Ordering
- 2017 Aircraft3/Firehawk Support Summary



NIROPS Website 2017

NATIONAL INFRARED OPERATIONS

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Serving the fire management community with Infrared Imagery since 1964.



[Download the NIROPS CDE KML](#)



NIROPS 3833 S Development Ave. Boise, ID 83705

NIROPS Website and IR Online Ordering

- Modifications for 2017 season
 - Server moved from USDA in Ft. Collins to EROS Data Center in Sioux Falls, SD.
 - NIROPS website and NIROPS CDE KML migrated to <https://>
 - Auto-fill the average incident elevation field
 - Error checking for manual scan box coordinate entry
 - “Flight Time Critical” check box
 - “Create New Request/Create New Order” pop-up
 - NIROPS2KML Tool modified to handle World Mercator Auxiliary Sphere (WMAS).



NIROPS Website and IR Online Ordering

- Issues during 2017 season
 - NIROPS website got really slow in early September
 - GeoMac perimeters not displaying in Google Map box once IR request activity increased on the website.
- Modifications for 2018 season?
 - Submit your requests soon so we can compile and prioritize a list for the web developers



NIROPS Website Usage Summary for 2017

April 1 – November 1

- Items of interest:
 - 27,898 visits to the website; 7,025 unique visitors
 - 23 % of visits were from mobile devices
 - Tablets – 46 %
 - Smart Phones – 29 %

Year	Visits	Unique Visitors	Page Views	Smart Phone(%)	Tablet(%)
2017	27,898	7,025	523,926	29	46
2016	19,257	5,883	265,674	32	45
2015	20,651	5,077	356,541	12	10
2014	17,076	5,064	260,912	12	15
2013	21,314	7,205	274,625	9	10

2017 IR Online Ordering Outages

- July
 - NIROPS website and Active Fire Maps intermittently unavailable.
 - Hardware issue requiring a firmware upgrade.
 - Network serving EROS production and NESSdev very slow.
 - Issue with the DOI Internet carrier, Verizon.
- September 4,5
 - Both NIROPS and Active Fire Maps (AFM) sites were unavailable.
 - Requests to the AFM Map Services (WMS) were swamping the server.
 - Access was limited to entities providing operational fire support.



2017 IR Online Ordering Outages

- Alternatives?
 - Load balancing between two servers that will host the AFM and NIROPS websites.
 - Set up a virtual server in the Fire National Enterprise Support Services (NESS) environment.
 - Potentially a dedicated server for just NIROPS.
 - This option would cost approximately \$10K per year.
 - Predictive Services has (will have?) a virtual server.



Aircraft3 2017 Summary

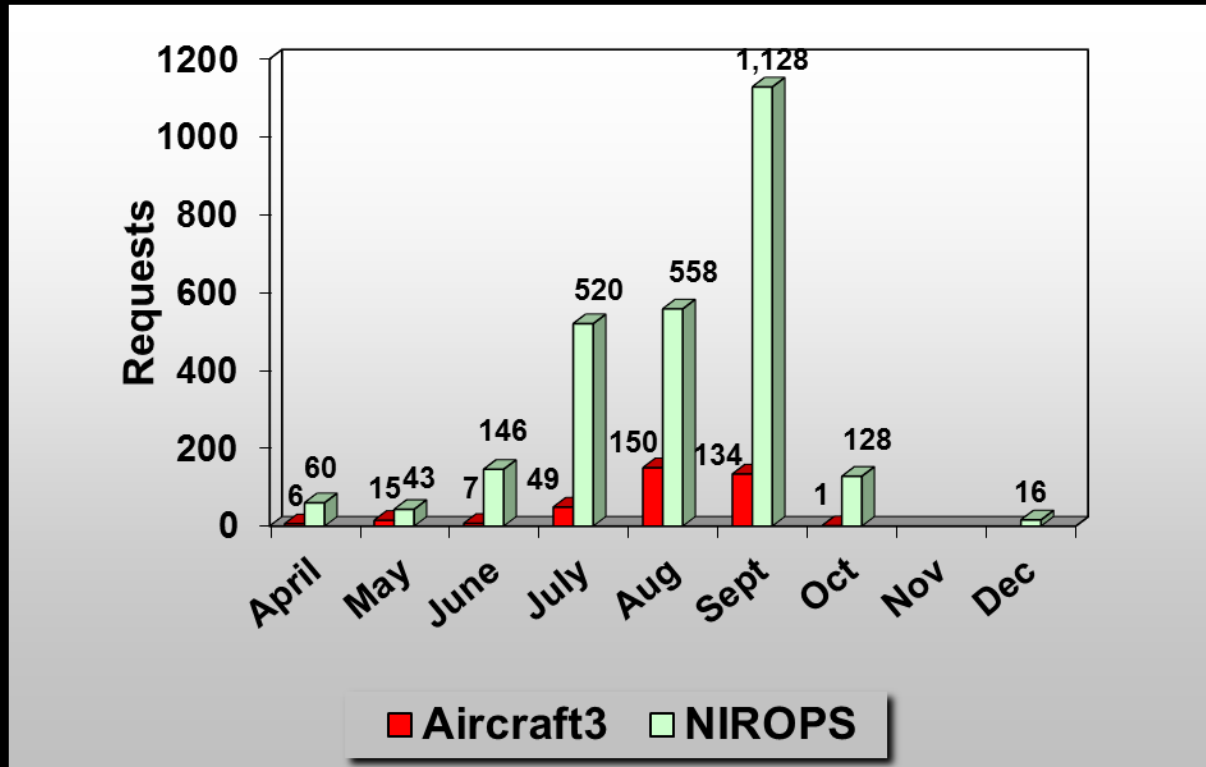
- One Alaska support request
- Incident support started on April 25-26
 - Sawmill Fire, AZ
- Incident support ended (?) on October 10-11
 - Canyon 2 Fire
- 46 days of continuous support from August 4 – September 19
- Eastern Area (EA) was the only GACC that didn't request support
- Additional support provided by the NCAC-Denver (USGS)
 - First Aircraft3 support from the group since 2009
 - USFS and USGS personnel



2017 Aircraft3/Firehawk Support (12/8/17)

MONTH		NO. OF SUPPORT DAYS	GACC(s) SUPPORTED	
April		6	SW	
May		15	SW, SA	
June		7	SW, AK	
July		21	NR, RM, SO, NO	
August		29	GB, RM, NW, NO, SO	
September		22	NR, NW, NO, SO	
October		1	SO	
TOTAL		101		

Aircraft3 2017 Support to NIROPS



Apr: 10%
May: 35%
Jun: 5%
Jul: 9%
Aug: 27%
Sep: 12%
Oct: .7%

Through December 8, 2017

12 % of the CONUS IR requests (362 of 3,057) were assigned to Aircraft3
86 % of the assigned requests (310 of 362) were completed by Aircraft3

Aircraft3 2017 GACC Support

Chetco Bar
Eagle Creek
Blanket Creek
Spruce Lake
Whitewater
Complex
Milli 0834 CS
Noisy Creek
Suiattle
Nena Springs
Uno Peak
Shan Creek
Bear Butte
Diamond Creek
North Umpqua
Complex
Falcon Complex
Miller Complex
Staley
Jones
Sawmill Creek
Jack Creek
Flounce

Salmon-August
Complex
Ruth Complex
Buck
Helena-Fork
Eclipse Complex
Minerva 5
Parker 2
Fay
Island
Ponderosa
Marble
Youngs

Canyon
Canyon 2
Pier
Railroad
South Fork
Empire
Whittier
Summit
Detwiler
Schaeffer

Pole Creek
Tank Hollow

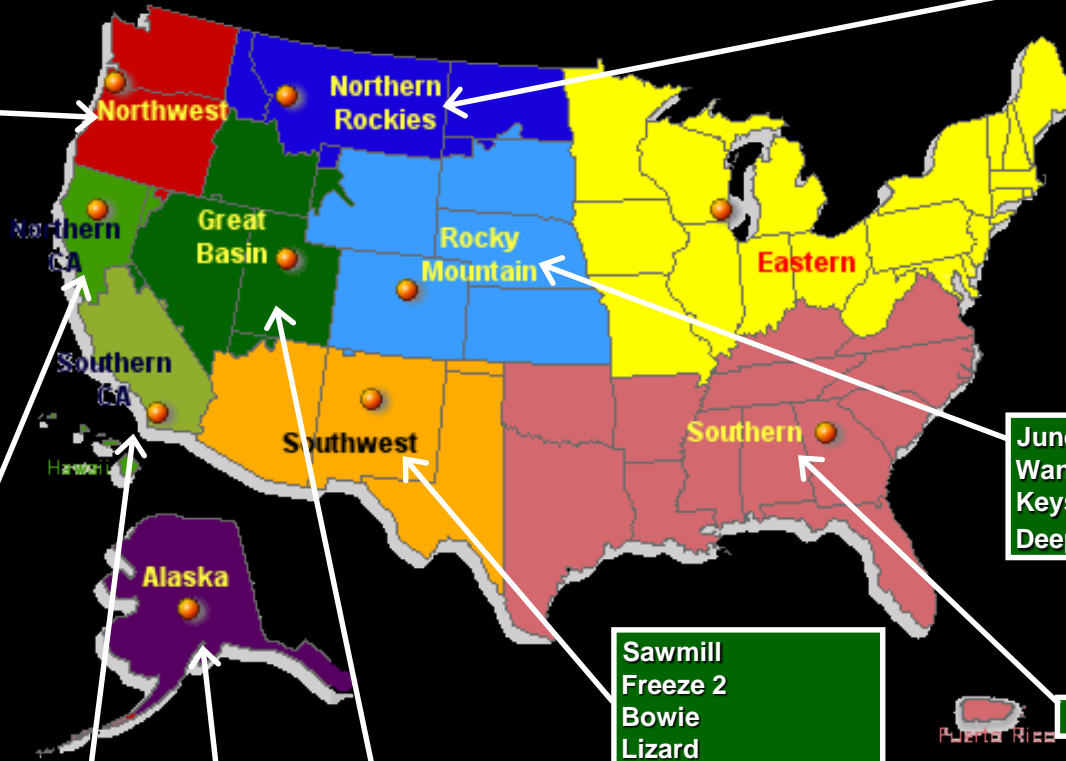
East Fork

Sawmill
Freeze 2
Bowie
Lizard
Boundary

West Mims

June
Wanblee Timber
Keystone
Deep Creek

July
Lolo Peak
Rice Ridge
Elder Creek
Sprague and Adair
Ditch Creek
Blacktail
Caribou
Gibraltar Ridge
Weasel
North Fork Hughes
Sartin Draw
Rogers Mtn.
East Fork



Aircraft3 2017 GACC Support

Geographic Area	No. of Fires	No. of Support Requests	UTF-Weather	UTF-Tech. Issue	Acres ¹
AK	1	3	2	0	1,410
GB	2	22	2	1	11,575
NO	14	44	4	2	69,835
NR	16	49	4	9	440,144
NW	26	129	8	17	509,341
RM	5	15	4	1	13,426
SO	12	71	1	6	197,031
SW	5	12	0	1	65,700
SA	1	13	2	0	152,189
TOTAL	82	358	27	37	1,460,651

(Through December 8, 2017)

1. Acres shown are from the last night of Aircraft3 support for the incident(s) in the GACC.



Thanks

Comments/Questions?



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