



GTAC Update on NIROPS- Related Activities

2021 NIROPS Closeout Meeting

December 8, 2021



USDA Forest Service, Geospatial Technology and Applications
Center,

FSWeb: <https://apps.fs.usda.gov/gtac>

WWW: <https://www.fs.usda.gov/about-agency/gtac>

Outline

- NIROPS Website and IR Online Ordering
- NIROPS2KML Tool
- 2021 Aircraft3 Support
- Active Fire Maps (AFM)
- “...All Good Things ...”



NIROPS Website

- Refreshed the content on the “About”, “Documents/Reports” and “Imagery” pages.
- Updated web links on the “Links” page.
- Added “NIFS Workflow” and “Feedback” pages.



IR Online Ordering

- Issues during 2021 season
 - Overall, Online Ordering was stable through the fire year.
 - Internet Explorer has aged to the point that it can't be used to submit requests.
- Modifications for 2022 season?
 - Submit your requests soon so we can compile and prioritize a list for the web developer.



NIROPS2KML Tool

- Identified need to modify existing tool to ingest feature classes from geodatabases as well as shapefiles.
- Still a work in progress
 - Shapefiles are simple, geodatabases not so much.
 - Staff availability
 - Should have modified tool by next spring
- Vertex limit for KMZs.
 - Apparently, there is a 30 – 40K (?) vertex limit when converting shapefiles to KMZs.
 - Encountered this on the “larger” fires this year.
- Inconsistent errors



NIROPS Website Usage Summary

April 1 – November 17

- 36,513 visits to the website; 9,769 unique visitors
- 82.4% of visits were from desktop and laptop computers.
- 17.6 % of visits were from mobile devices
 - Tablets – 2.3 %
 - Mobile – 15.3 %

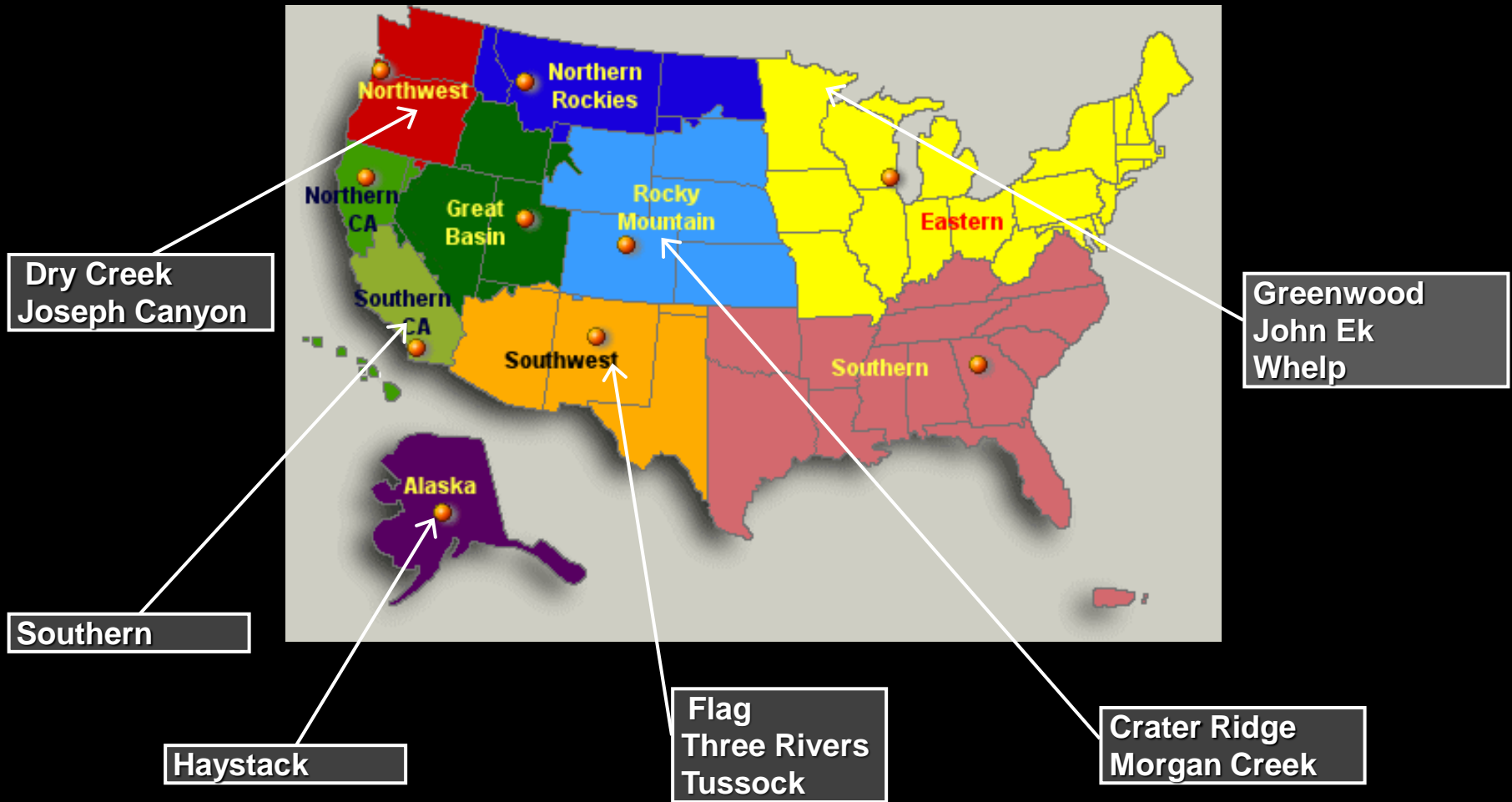
Year	Visits	Unique Visitors	Page Views	Mobile (%)	Tablets (%)
2021	36,513	9,769	446,554	15	2
2020	31,701	9,186	455,374	15	5
2019	14,493	5,578	217,614	36	45
2018	27,044	8,641	485,619	33	41
2017	27,898	7,025	523,926	29	46

Aircraft3 Summary

- Overall, it was a quiet support season.
- Like 2020, EU IR contract vendors and CWN IR vendors reduced need for Aircraft3 support.
- USGS analysts shadowed NGA analysts.
- Incident support started on April 26
 - Flag Fire, AZ
- Incident support ended on September 13 (?).
 - Greenwood Fire, MN
- 22 days of continuous support from 8/20 – 9/13.



Aircraft3 GACC Support



Aircraft3 Support by GACC

GEOGRAPHIC AREA	NUMBER OF FIRES	NUMBER OF SUPPORT REQUESTS	UTF-WEATHER	UTF-TECH. ISSUES	ACRES ¹
AK	1	3	0	1	923
SW	3	19	0	2	13,853
RM	2	4	2	1	5,760
NW	2	4	2	2	9,174
SO	1	1	0	0	5,366
EA	3	15	1	1	28,179
TOTAL	12	46	5	7	63,255

(Through November 17, 2021)

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

Aircraft3 Support by Month

MONTH	NO. OF SUPPORT DAYS	NO. OF FIRES SUPPORTED	GACC(s) SUPPORTED
April	5	2	SW
May	10	3	SW, SO
June	5	3	AK, NW
July	3	2	RM
August	9	3	EA
September	6	3	EA
TOTAL	38		

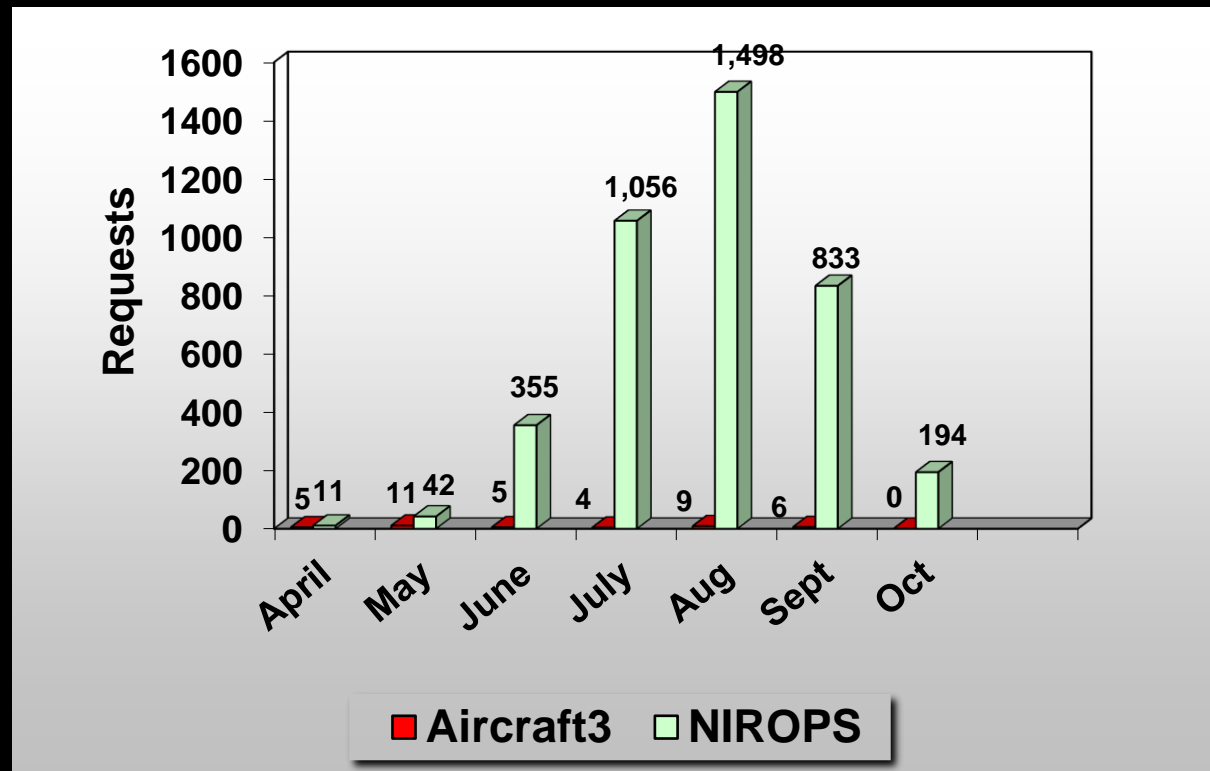
(Through November 17, 2021)

Extended Incident Support

- Greenwood (MN) – 15 nights
- Three Rivers (NM) – 7 nights
- Tussock (AZ) – 5 nights
- Flag (AZ) – 5 nights



Aircraft3 Support to NIROPS



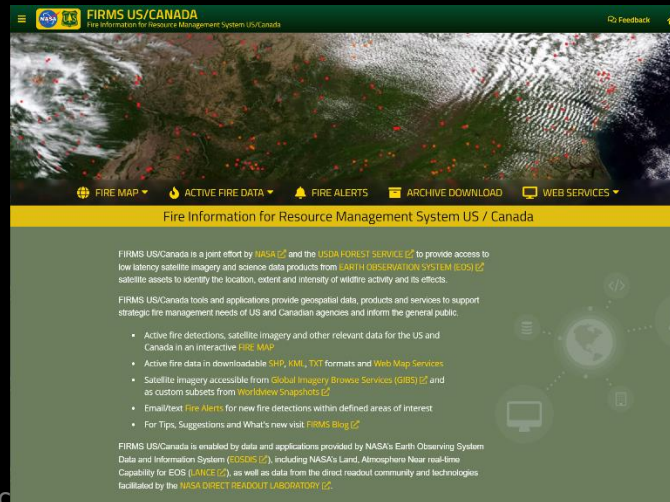
Apr.: 45.5 %
May: 26.2 %
Jun: 1.4 %
Jul: 0.4 %
Aug: 0.6 %
Sep: 0.7 %
Oct: 0 %

Through November 17, 2021

1 % of the IR requests (46 of 3,967) were assigned to Aircraft3
61 % of the assigned requests were completed by Aircraft3

Active Fire Mapping (AFM)

- Active Fire Mapping program is migrating at the end of 2021.
- The new program, FIRMS US/Canada
 - Fire Information for Resource Management System
 - Collaborative effort between the Forest Service and NASA.
 - <https://firms.modaps.eosdis.nasa.gov/usfs/>



“...All Good Things...”

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Thanks

Comments/Questions?

GTAC



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