

FireSense 2025 Spring Campaign Phase II is underway!

Post-Flight Report for 4/10/2025

N53W (AVIRIS)

Take off @ ECP, 1708 UTC, 1208 CDT

Landing @ ECP, 2105 UTC, 1605 CDT

Total flight time: 4 hours

Flight Plan Report: successful flight and data collection over Merritt Island National Wildlife Refuge. Flight over MINWR completed of existing pre-fire data collection, as well as post-fire flight over units burned due to wildfire. Some cloud coverage present in the "9's" burn unit area.



N801NA (MASTER/FireTIRS)

Transit 4/11/25 to KECP

N89869Y (TACFI-RS)

Transit 4/11/25 to KECP

Post-Flight Report for 4/13/2025

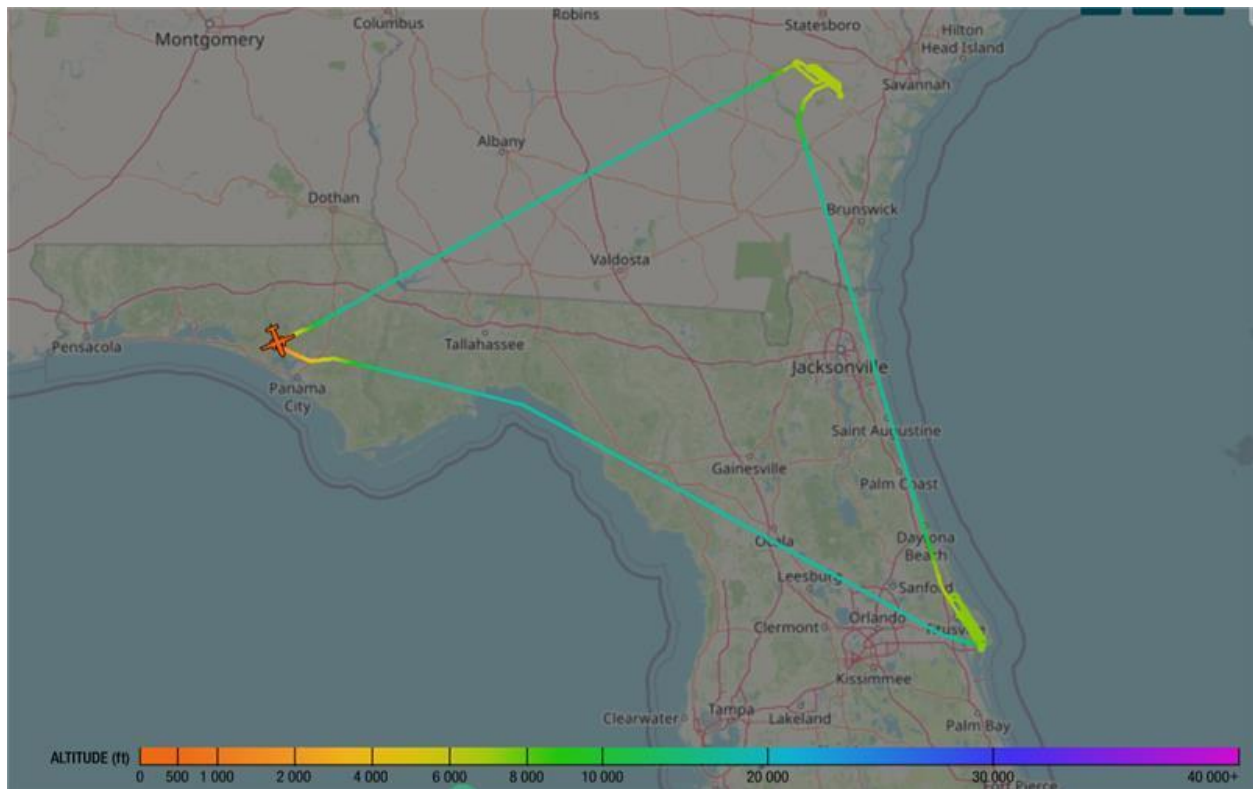
N53W (AVIRIS)

Take off @ ECP, 1510 UTC, 1010 CDT

Landing @ ECP, 1932 UTC, 1432 CDT

Total flight time: 4.4 hours

Flight Plan Report: successful flight and data collection over Fort Stewart Army Base and Merritt Island National Wildlife Refuge. Data collection over Fort Stewart captured pre-fire conditions prior to 4/14 planned prescribed burns. Collection over Merritt Island improved coverage of the "9" units that have burned and were previously obscured by clouds for data collection.





Caption: Top Image, N53W flight path taken from ADS-B exchange. Bottom Image, in-flight photo looking over Merritt Island/Kennedy Space Center, taken by AVIRIS-3 Operator Holly Bender.

N801NA (MASTER/FireTIRS)

No flights today

N89869Y (TACFI-RS)

No flights today

Post-Flight Report for 4/14/2025

N53W (AVIRIS)

Take off @ ECP, 1405 UTC, 0905 CDT, Fuel at KLHW

Landing @ ECP, 2142 UTC, 1642 CDT

Total flight time: 6.1 hours

Flight Plan Report: successful flight and data collection over Fort Stewart Army Base prescribed burn at units F8.1 and F8.2. Accompanied by NBC News.



Caption: Attached, time lapse animation of AVIRIS FireRGB Real-Time Spectroscopic Product (RTSP) over F8.1 and F8.2 burn units at Fort Stewart; Credit: AVIRIS-3, Created by Joseph White. Image, AVIRIS-3 Operator view with prescribed fire outside port side window, Credit: Holly Bender.

N801NA (MASTER/FireTIRS)

Take off @ ECP, 1336 UTC, 0836 CDT, Fuel at KLHW

Landing @ ECP, 2148 UTC, 1648 CDT

Total flight time: 6.6 hours

Flight Plan Report: successful flight and data collection over Fort Stewart Army Base prescribed burn at units F8.1 and F8.2.

See attached (MASTERL0) for MASTER Quick looks!

<https://usfs.box.com/s/rtaef9ivd7js6pb9b6z9tft2863roht4>

N89869Y (TACFI-RS)

Take off @ ECP, 1327 UTC, 0827 CDT, Fuel at KLHW

Landing @ ECP, 2211 UTC, 1711 CDT

Total flight time: 7.2 hours

Flight Plan Report: successful flight and data collection over Fort Stewart Army Base prescribed burn at units F8.1 and F8.2.





Caption: Top Image, Luke Majors, TACFI-RS Operator stands next to N8969Y at Wright Field on Fort Stewart Army Base; Credit: Steve Pollard. Bottom Image, aerial view of prescribed fire in units F8.1 and F8.2 at Fort Stewart; Credit: Steve Pollard.

Post-Flight Report for 4/16/2025

N801NA (MASTER/FireTIRS)

Take off @ ECP, 1308 UTC, 0808 CDT, Fuel at KLHW

Landing @ ECP, 2134 UTC, 1634 CDT

Total flight time: 6.25 hours

Flight Plan Report: successful flight and data collection over Fort Stewart Army Base prescribed burn at unit F6.6. Wildland fires imaged along transit and lines flown over wildfire near KECP. FireTIRS captured ground-based data of wildfire near KECP.

N89869Y (TACFI-RS)

Take off @ ECP, 1306 UTC, 0806 CDT, Fuel at KLHW

Landing @ ECP, 2157 UTC, 1657 CDT

Total flight time: 6.9 hours

Flight Plan Report: successful flight and data collection over Fort Stewart Army Base prescribed burn at unit F6.6. Wildland fires imaged along transit and lines flown over wildfire near KECP.

UAH Dept of Atmospheric and Earth Science

Field Report: successful ground data collection of atmospheric and micro-meteorology data and participation in local outreach

Total field time: 9 hours



Image Caption: UAH team doing impromptu outreach Credit: Ryan Wade.





Image Caption: Wildfire next to airport base of operations, KECP. FireTIRS has an extra sensor to collect ground data. Credit: James Thompson.



Image Caption: Trident Sensing being interviewed by media during refuel at KLHW. Credit: Jackie Shuman.

Post-Flight Report for 4/18/2025

Last flight report for FireSense Spring 2025 Campaign!!

N801NA (MASTER/FireTIRS)

Take off @ ECP, 1302 UTC, 0802 CDT, Fuel at KLHW

Landing @ ECP, 1901 UTC, 1401 CDT

Total flight time: 5.9 hours

Flight Plan Report: successful flight and data collection over Fort Stewart Army Base prescribed burn at unit F3.3. Wildland fires imaged in coordination with USFS IAA program near Tallahassee Florida.

N53W (AVIRIS)

Take off @ ECP, 1359 UTC, 0859 CDT, Fuel at KLHW

Landing @ ECP, 2039 UTC, 1539 CDT

Total flight time: 5.1 hours

Flight Plan Report: successful flight and data collection over Fort Stewart Army Base prescribed burn at unit F3.3. Wildland fires imaged in coordination with USFS IAA program near Tallahassee Florida.

GIF of AVIRIS data

https://drive.google.com/file/d/1FHEvlyFN3ZuP0kTf_dFv7_TqHx2PGjA5/view?usp=drive_link

https://drive.google.com/file/d/1Bapg1SbSf6Ajp7iFNmvPeH1EmtKGM-7/view?usp=drive_link

MP4 of AVIRIS data

https://drive.google.com/file/d/1i2B3AsGDVdZ019pxJqP1yiIJyBF3OW8T/view?usp=drive_link

https://drive.google.com/file/d/13Rmj9toKsoz3LWF1oBrJkzSLTiNVAz6H/view?usp=drive_link

Folder with all animations from campaign:

https://drive.google.com/drive/folders/1Aqm4mXCaYhL427SosActmVeMysXCBRH4?usp=drive_link



Image Caption: Fort Stewart Burn Unit F3.3 Credit: Holly Bender.



Image Caption: N801NA (6,500') out the window of N53W (9,000'). Credit: Holly Bender.



Image Caption: ignition pattern during the 4/16/25 burn of unit F6.6. Credit: Eric Fraim.