*This is your quasi-daily update on the 2022 ABoVE Airborne Campaign*

**Monday 4 July, 2022 (DOY 184)**

Chip Miller is in Fairbanks, AK.

Peter Griffith is in Maryland.

NASA’s 2022 airborne activities are scheduled to include AVIRIS-NG hyperspectral imaging (5 July – 25 August) and the L-band polInSAR (9 August – 22 August). Flights will provide acquisitions across the ABoVE domain in Alaska and northwestern Canada in coordination with ABoVE field work

ABoVE will coordinate with the DLR [CoMet 2.0 Arctic](https://www.halo-spp.de/Missions/CoMet-2-0-Arctic-2022/) (operating from Edmonton ~12 Aug – 15 Sep), [G-LiHT](https://gliht.gsfc.nasa.gov/) (6-30 July in southern/SW Alaska), and [NEON AOP](https://www.neonscience.org/data-collection/flight-schedules-coverage) (operating out of Deadhorse AK 20 July – 22 Aug) teams.

More information may be found on the summary page for the [ABoVE 2022 Airborne Campaign](https://above.nasa.gov/airborne_2017.html#2022)

**Sensor/Aircraft Summaries and 72-hour Look Aheads**

**AVIRIS-NG (Dynamic Aviation B-200**[**N53W**](https://flightaware.com/live/flight/N53W)**)**

*July 2*: Transit Great Falls MT (GTF) – Bellingham, WA – Juneau, AK – Fairbanks, AK

*July 3*: Crew rest day; Clean AVIRIS window

*July 4*: Hard Down Day; >5000 lightning strikes forecasted for AK

* Priority 1 = Deadhorse/Barrow Areas.
* Priority 2 = YK Delta.
* Priority 3 = Interior AK/Fairbanks Area

Jackie Hung and a Woodwell research team are in the YK Delta

*July 5*: First potential flight day.

Dense cloud cover across Western Alaska and the North Slope, especially high priority coastal areas

Possible opportunities in Yukon Flats (Beaver area box), and fire scars east of Fairbanks before 1500 AKDT

*July 6*: Potential flight day.

Dense cloud cover across Western Alaska and the North Slope, especially high priority coastal areas

*July 7*: Potential flight day.

Dense cloud cover across Western Alaska and the North Slope, especially high priority coastal areas. Area of clear skies in eastern Alaska from Valdez to Fort Yukon offers multiple flight opportunities

**G-LiHT (Dynamic Aviation Beechcraft King Air** [**N80Y**](https://flightaware.com/live/flight/N80Y)**)**

Integration & Testing (Bridgewater, VA):  28-30 June 2022

Transit to AK: 1-6 July 2022

Base of Operation and Dates :

Kodiak, AK -- 6-16 July 2022

Aniak, AK -- 16-26 July 2022

Kodiak, AK -- 26-30 July 2022

[Description of science flights and motivation](https://above.nasa.gov/airborne_2017.html#2022)

*July 2*: G-LiHT transits from Bridgewater VA – Perry, IA

*July 3*: G-LiHT transits from Perry IA – Sheridan County, WY

**NEON Airborne Observation Platform #1 (**[**Daily Flight Reports**](https://www.neonscience.org/data-collection/daily-flight-reports)**)**

July 20: First candidate flight day – Toolik Lake area

**L-band SAR (JSC G-III**[**NASA2**](https://flightaware.com/live/flight/N992NA)**)**

June - July: planned non-ABoVE CONUS flights

Aug 9: Transit Houston – Saskatoon (TBC)

Aug 10: BERMS area TomoSAR

Aug 11: Transit to Yellowknife

**CoMet 2.0 Arctic (HALO G-550**[**D-ADLR**](https://flightaware.com/live/flight/DADLR)**)**

Aug 10: Transit to Edmonton (TBC)

Aug 12: First candidate flight day

**Weather Forecast: ABoVE Domain**

GEOS-FP for ABoVE: <https://fluid.nccs.nasa.gov/missions/mission_ABOVE/>

HRRR for Alaska: <https://rapidrefresh.noaa.gov/alaska/>

Windy weather visualization: [https://www.windy.com/](https://gcc02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.windy.com%2F&data=05%7C01%7Cpeter.c.griffith%40nasa.gov%7Cad658dc1e59a4d3cac4008da57aa3f21%7C7005d45845be48ae8140d43da96dd17b%7C0%7C0%7C637918685965419609%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=9VKGntYPS4KZXym6nEFk%2FRvIog08d5is%2FkyO0qX2RoE%3D&reserved=0)

FAA Weather Cameras – Interactive map with Alaska and Canadian cameras: <https://weathercams.faa.gov/>

Alaska Fires and Smoke Predictions: <http://smoke.alaska.edu/current_fires.html>

*Long-range forecast:*

*Tues 5 July*: Solid cloud cover over western AK. AM: Clear over much of eastern AK from Valdez to Fort Yukon. PM: Bands of afternoon showers in the Brooks Range and eastern Interior.

*Wed 6 July*: Solid cloud over western AK and the North Slope. Band of clear skies in eastern AK from Valdez to Fort Yukon

*Thu 7 July*: Solid cloud over western AK and the North Slope. Clear to partly cloudy in eastern AK from Valdez to Fort Yukon. PM: Increasing clouds and possible thunderstorms

**Fire activity updates 7/4/22** <http://smoke.alaska.edu/current_fires.html> :

1100 AKDT on 7/3/22: Fairbanks AQI = 163 <https://www.iqair.com/us/usa/alaska/fairbanks>

<https://www.cnn.com/2022/07/03/weather/alaska-lightning-wildfires-sunday/index.html>

3 large fires burning west of Fairbanks:

* Minto Lakes (32,700 acres, +3200 acres since 7/3/22)
* Tanana River (16,469 acres, not updated)
* Clear (51,200 acres, +11,400 acres since 7/3/22)

Multiple large (>100,000 acre) fires burning in SW Alaska and the YK Delta contributing to smoky conditions across Interior AK. Fires of particular note:

* Douglas (18,100 acres) south of Coldfoot is burning on both sides of the Dalton Hwy and may impact travel between Fairbanks and Deadhorse
* Hog Butte (185, 400 acres) between Lake Minchumina and Nikolai
* Tatlawiksuk (226,000 acres), Aghaluk Mountain (116,000 acres), and Koktuli River/Pike Creek (188,200 acres) causing smoke over most of western and Interior AK
* East Fork (167, 000 acres) and Apoon Pass (84,000 acres), both near St Mary’s
* Pauls Creek (18,000 acres) and Contact Creek (10,000 acres) fires may impact King Salmon area data acquisitions

\*\*\* Ground truth providers seeking information on timing of potential overflights should text or email Chip Miller and Peter Griffith \*\*\*

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