

A scenic photograph of an Arctic landscape. In the foreground, three reindeer with large, dark antlers are walking across a field of dry, brownish grass. The background features a range of blue mountains under a clear sky. The text is overlaid on the image.

Arctic Boreal Vulnerability Experiment (ABoVE) 2024 ABoVE L-band SAR Airborne Flights

**17 August 2024 (DOY 230)
Yellowknife NT – Fairbanks AK Transit**

**Charles Miller, Deputy Science Lead
Jet Propulsion Laboratory, California Institute of Technology
Peter Griffith, Elizabeth Hoy
Carbon Cycle & Ecosystems Office
and the ABoVE Science Team**

**For Ryan Pavlick, Kathy Hibbard, Laura Lorenzoni, Bruce Tagg, Jack Kaye
NASA HQ
2024**



17 August 2024/DOY 230

Yellowknife NT – Fairbanks AK Transit



Daily Summary:

- **C-20A (N802NA) L-band SAR ABoVE CAMPAIGN (CANADA / ALASKA)**
- REPORT DATE: 17 August 2024
- Current Status of Aircraft: **GREEN**
- Current Status of SAR: **GREEN**
- Current Status of PPA: **GREEN**
- Current Deployment Location: Fairbanks, AK (PAFA)
- Crew: Nelson, Phelps, Reid, Devalon, Griffith, Austerberry, Peacock
- Science Coordinator: N Pinto
- Science Lead: C Miller
- Project Manager: Y Lou



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Yellowknife NT – Fairbanks AK Transit



Daily Summary:

- Yellowknife (CYZF) - Fairbanks (PAFA)
- Collected 11 of 11 data lines
- Flight Plan – PLAN_1819_v01 (CYZF_PAFA)
- Reduced fire smoke
- Precip < 5 mm in region. Light/intermittent rain showers



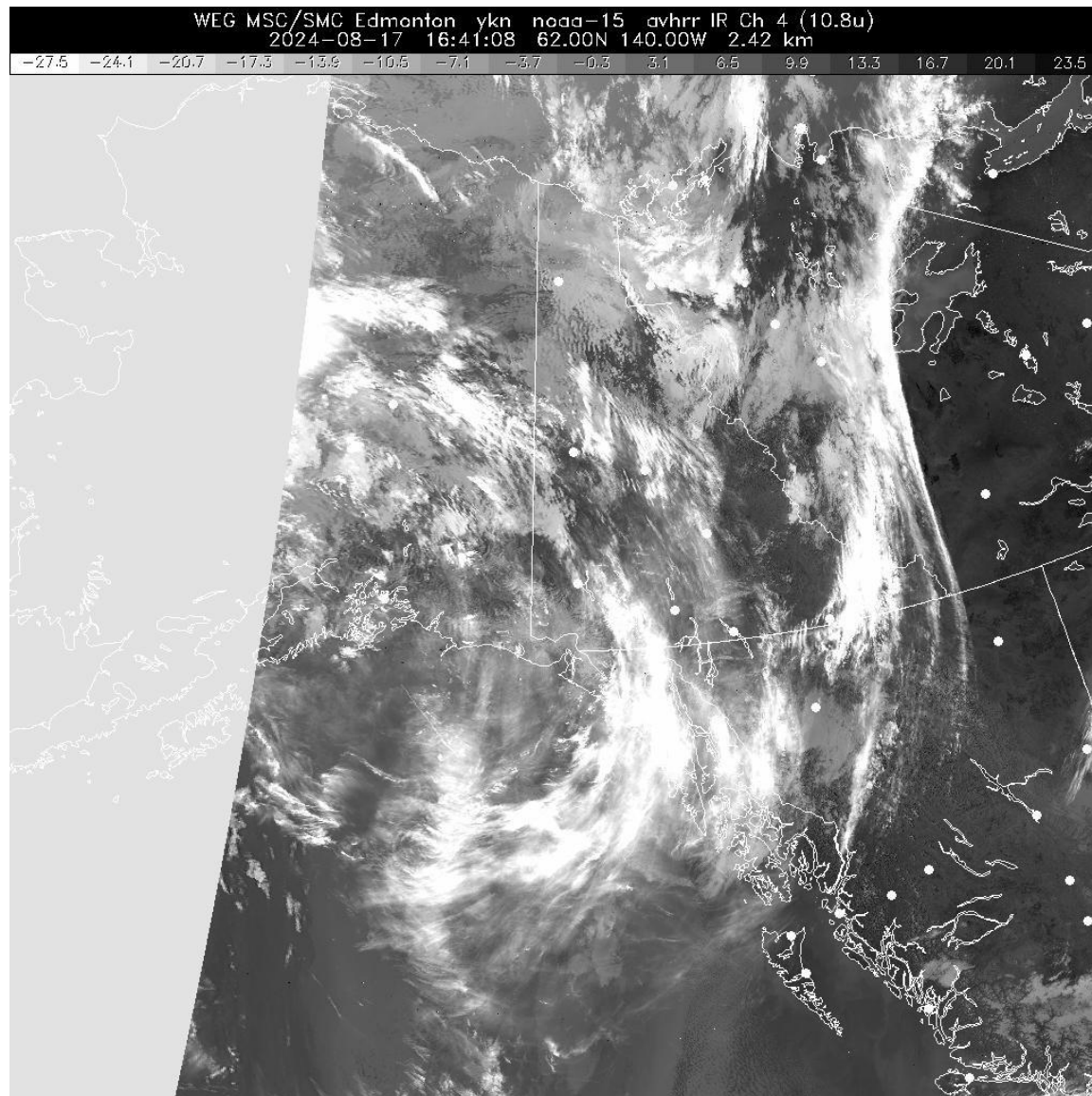
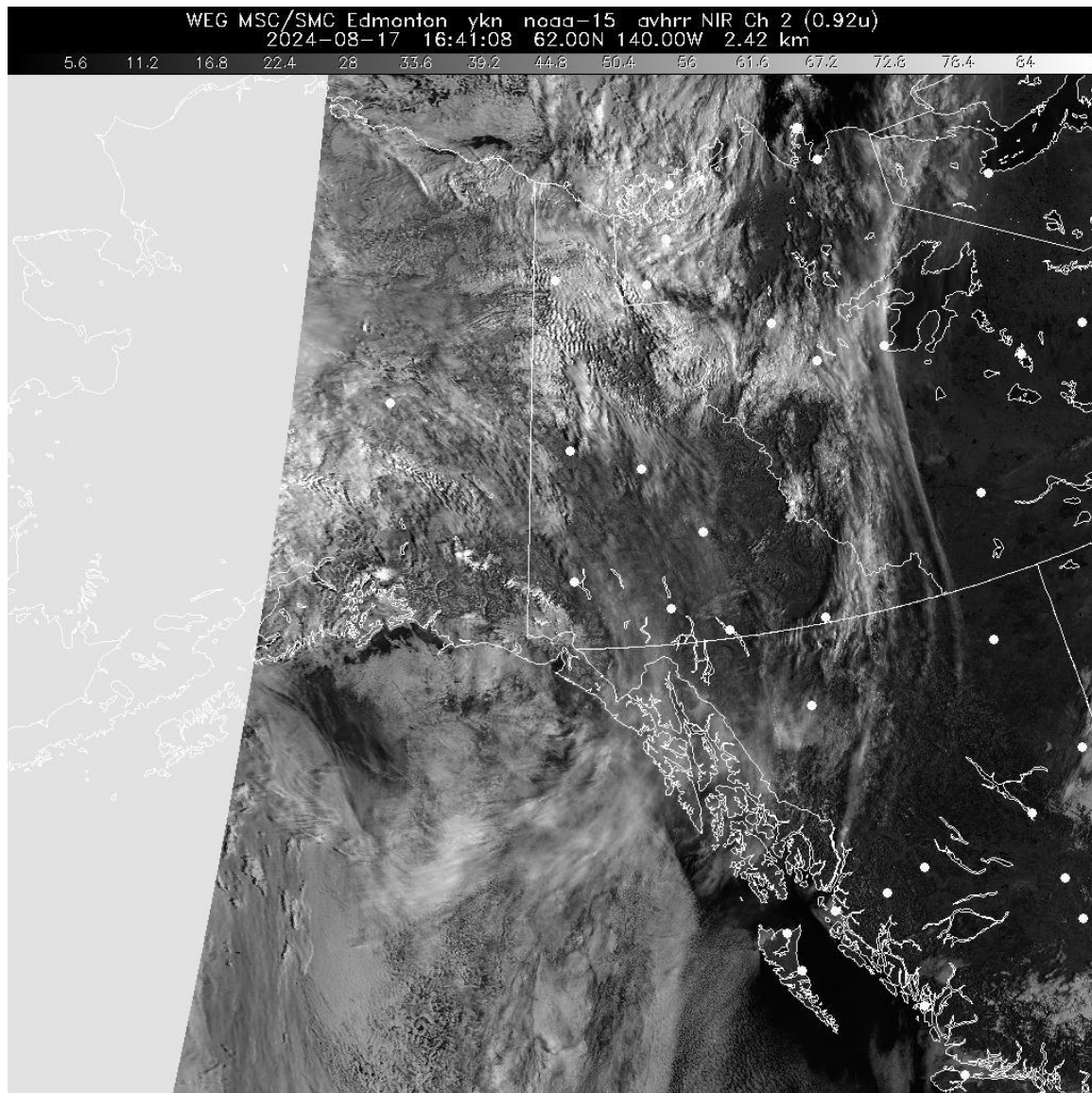
17 August 2024/DOY 230 Yellowknife NT – Fairbanks AK Transit





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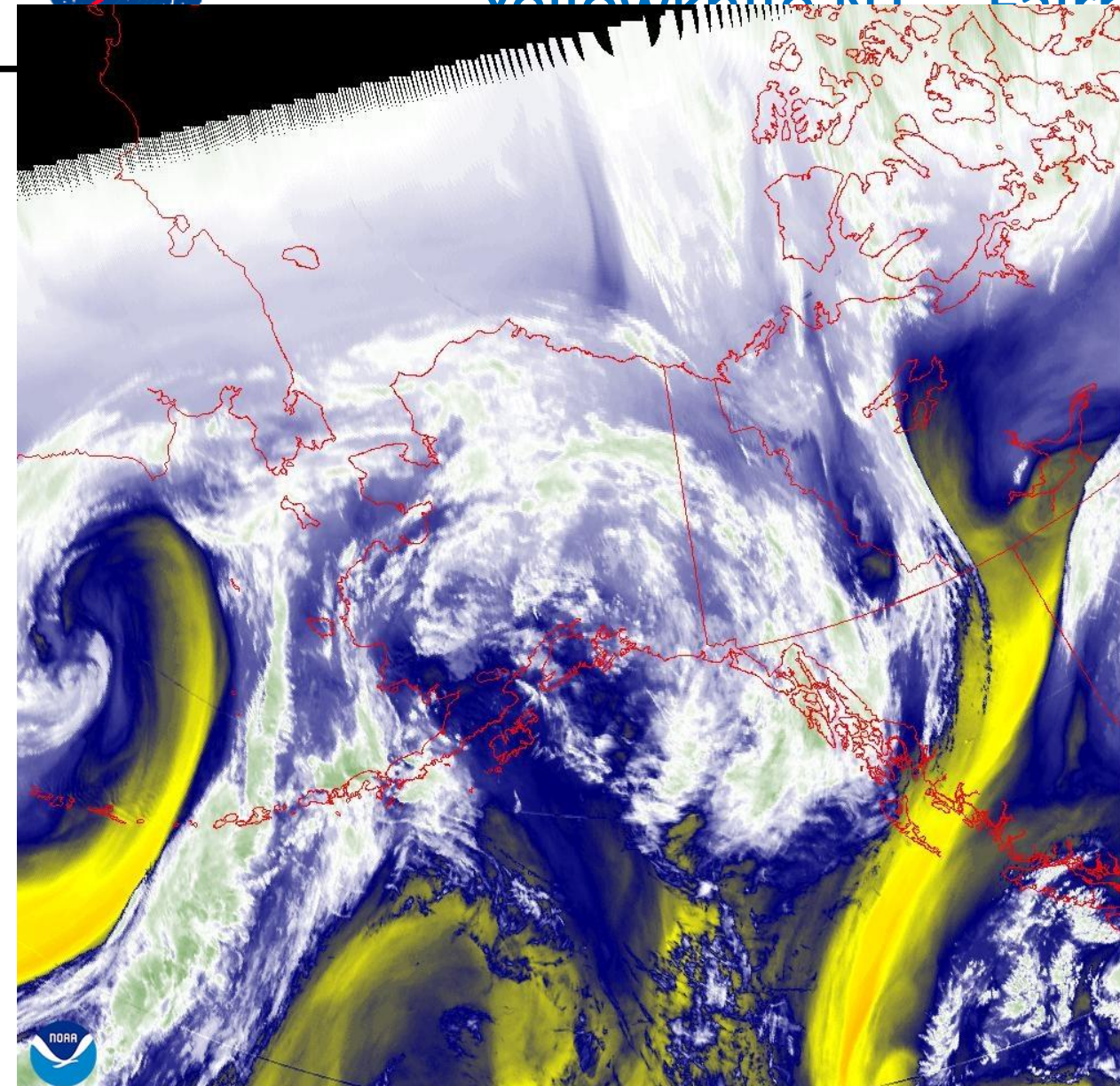
Yellowknife NT – Fairbanks AK Transit



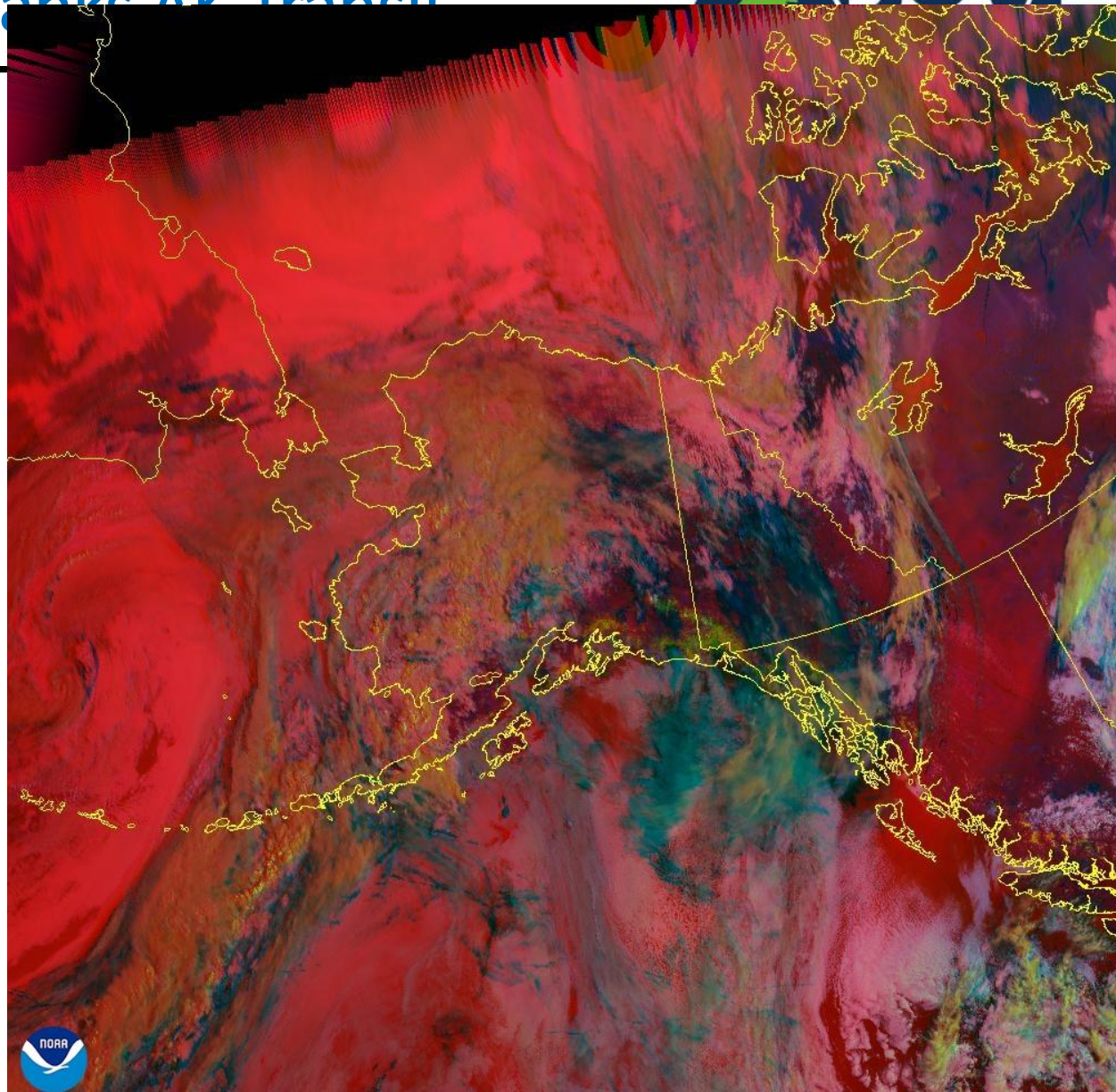


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Yellowknife NT - Fairbanks AK Transit



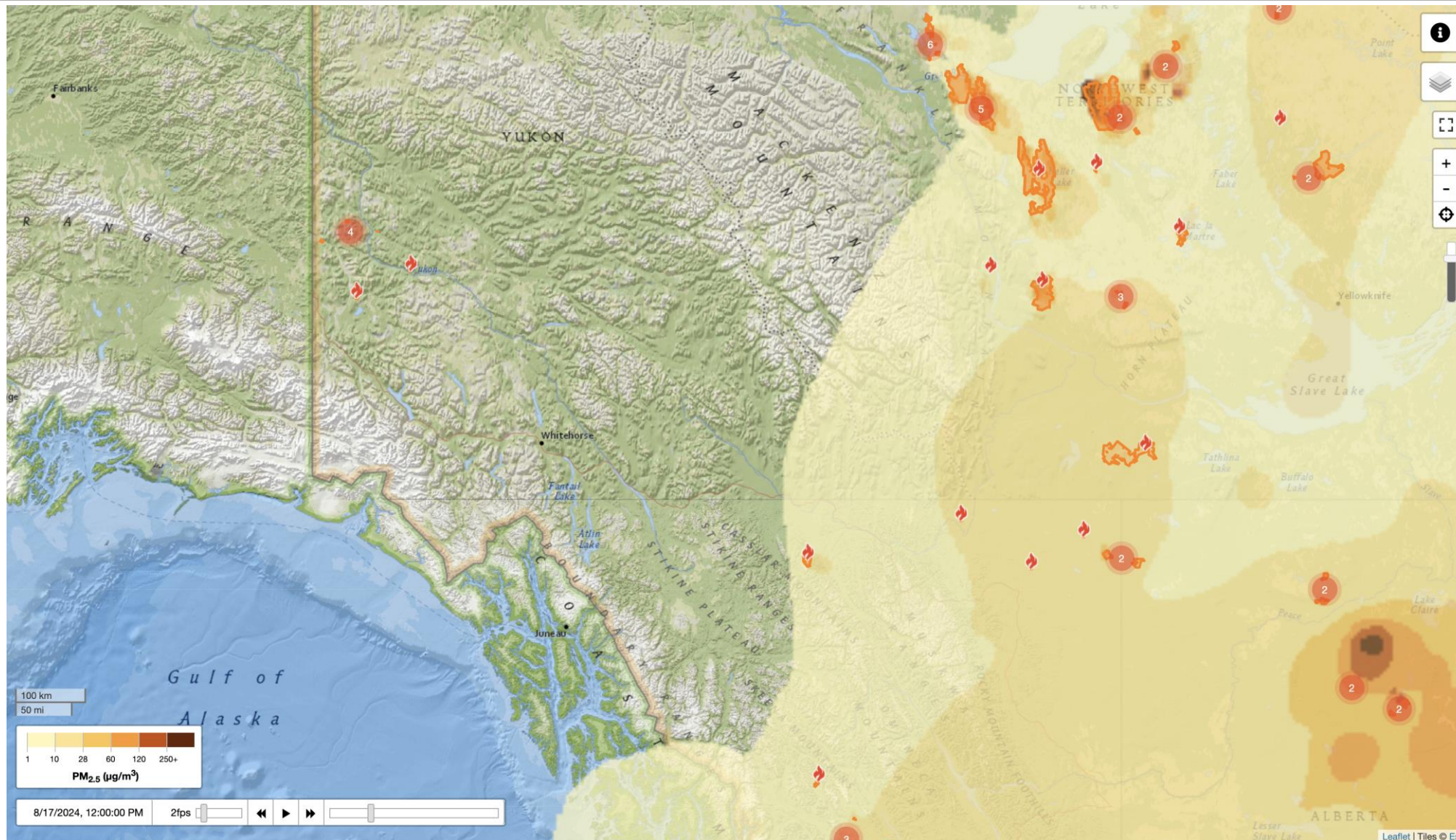
17 Aug 2024 18:00Z - NOAA/NESDIS/STAR - GOES-West - Band 10 - AK



17 Aug 2024 17:40Z - NOAA/NESDIS/STAR - GOES-West - DayNightCloudMicroCombo Composite - AK



17 August 2024/DOY 230 Yellowknife NT – Fairbanks AK Transit



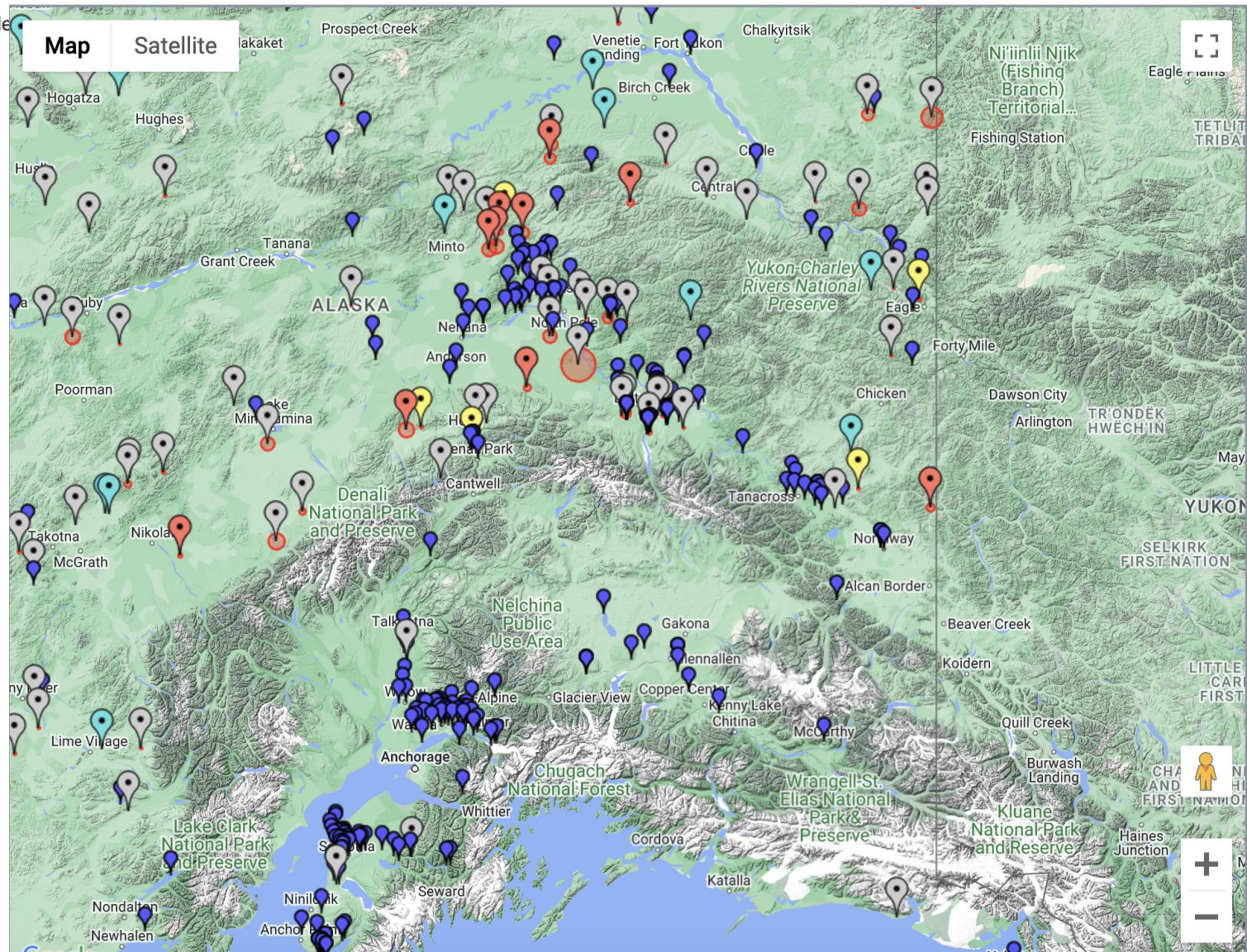
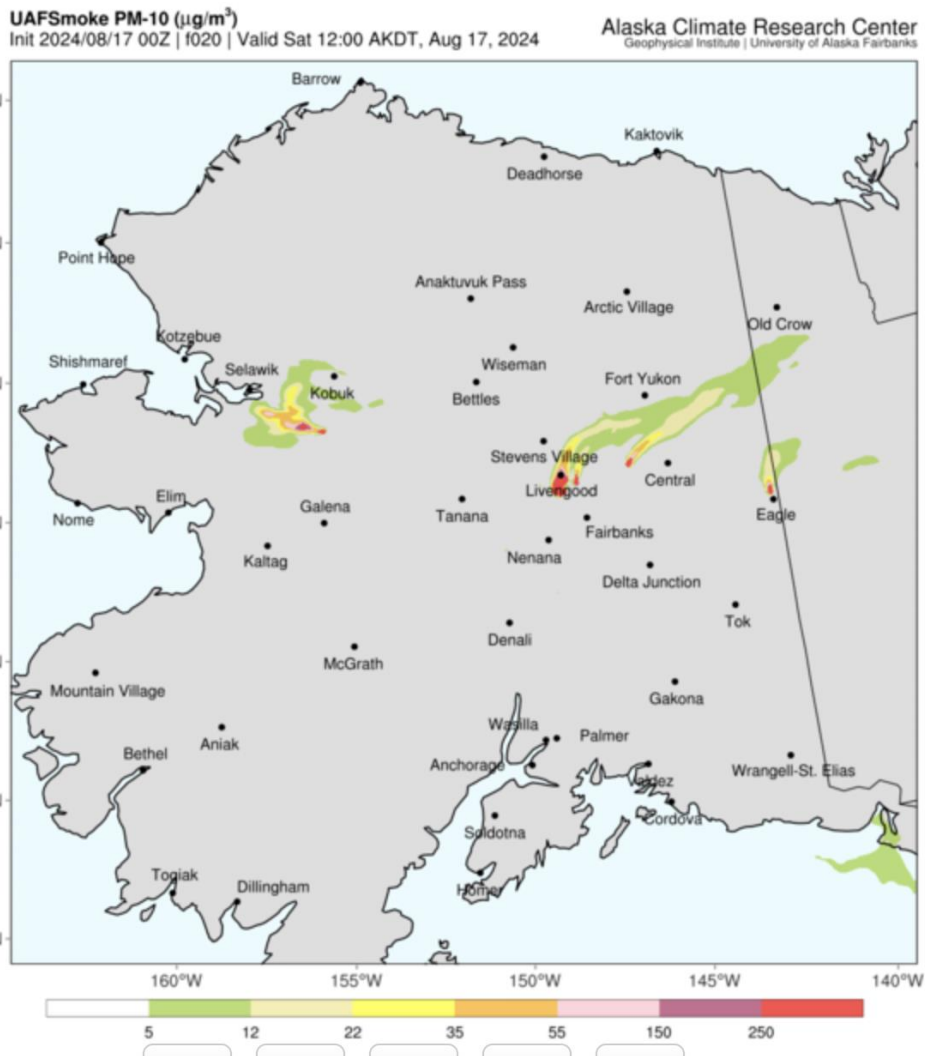


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Yellowknife NT – Fairbanks AK Transit



PM-10: Particulate Matter (smoke particles 10 micrometers or less in diameter) near surface level
(Loading slowly? [Click here](#) for a simpler animation.)





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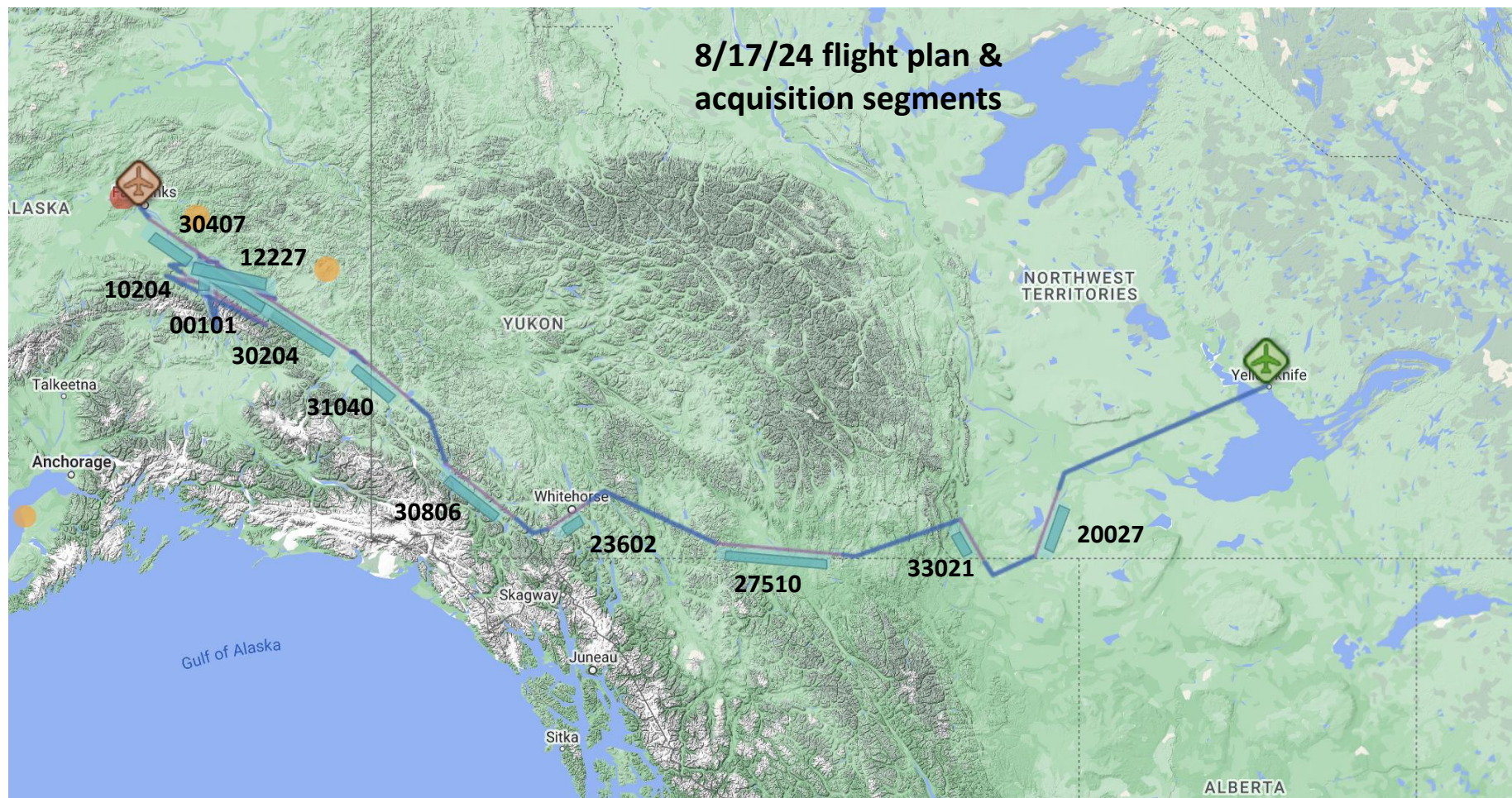


Flight Plan Report: PLAN_24056

https://uavsar.jpl.nasa.gov/cgi-bin/report.pl?planID=PLAN_24056#summary

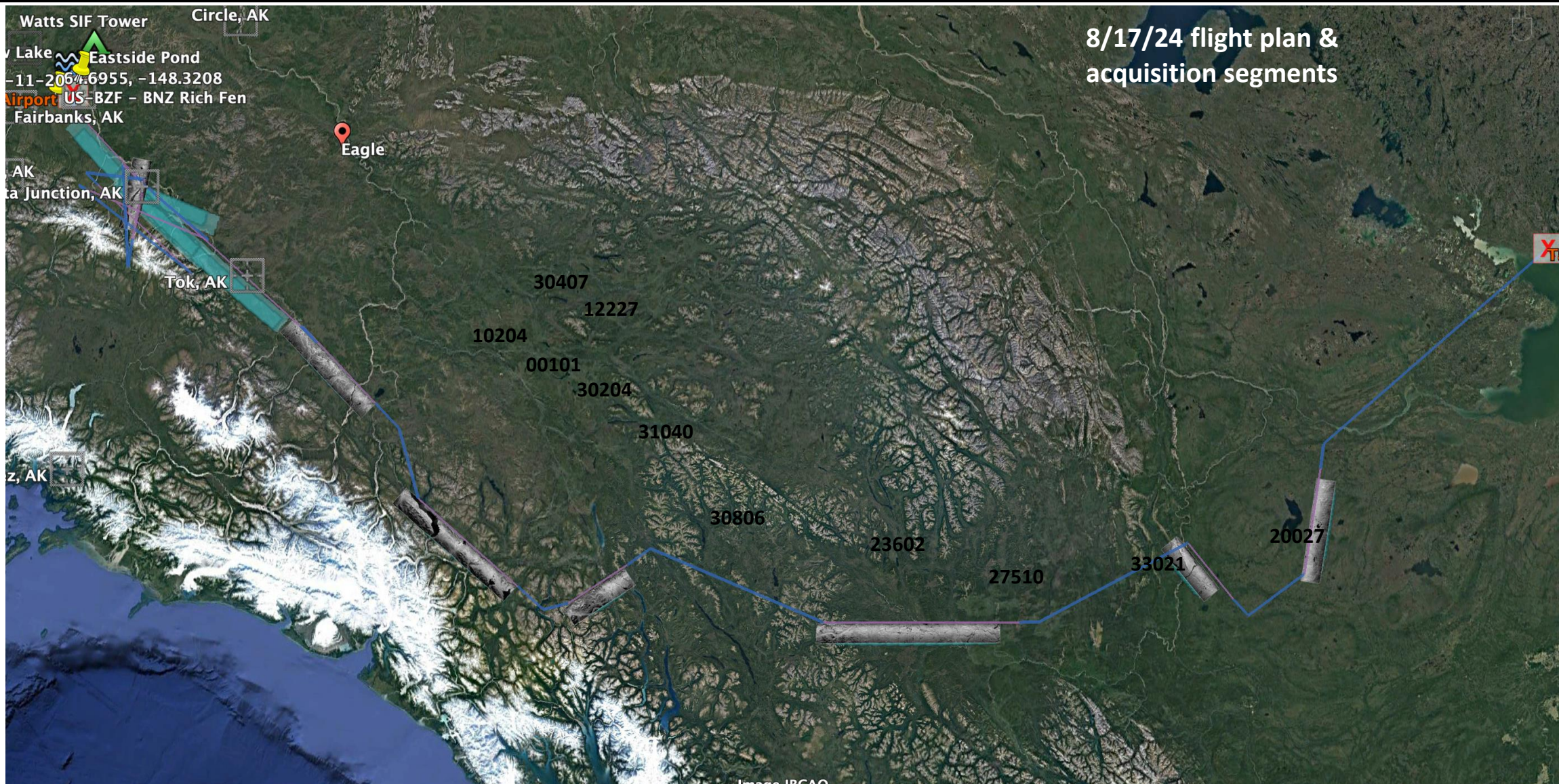
Data Acquisitions:

- Line 1: scoai_20027
- Line 2: fliard_33021
- Line 3: watson_27510
- Line 4: wolfcr_23602
- Line 5: kluanA_30806
- Line 6: snagyk_31040
- Line 7: deltjC_30204
- Line 8: djNEON_00101
- Line 9: deltaR_12227
- Line 10: deltjB_10204
- Line 11: deltjA_30407





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Yellowknife NT – Fairbanks AK Transit

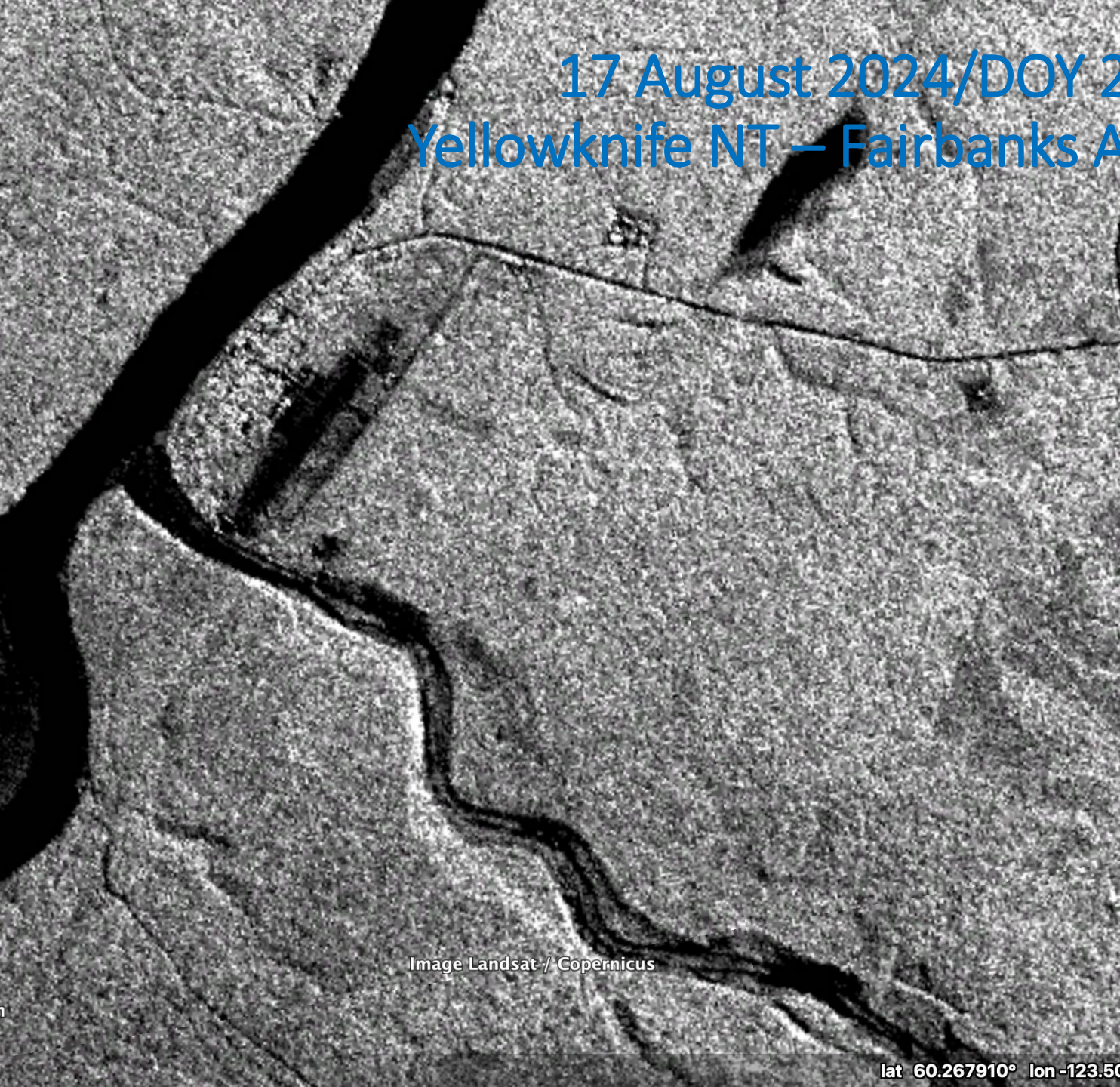
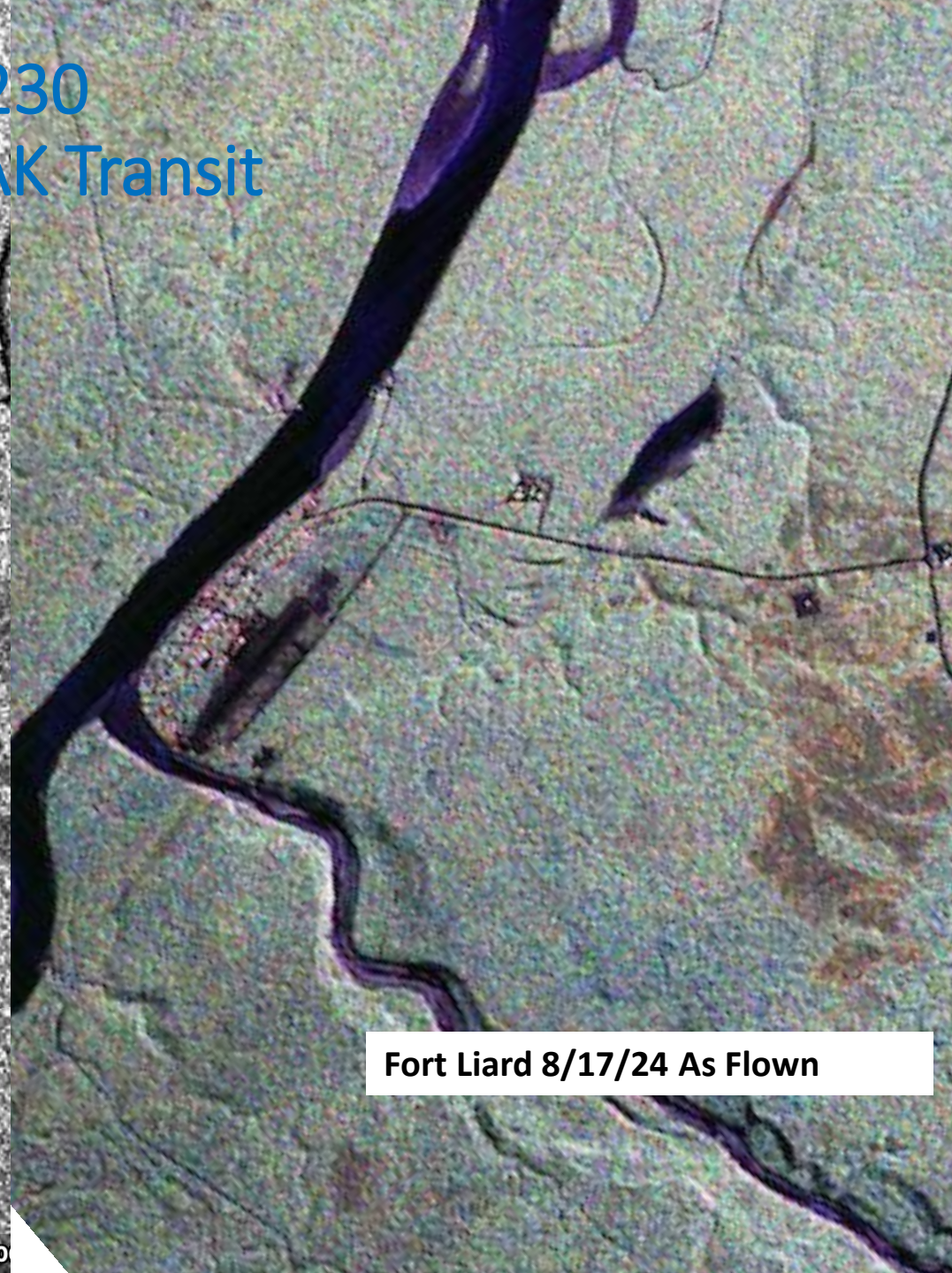


Image Landsat / Copernicus

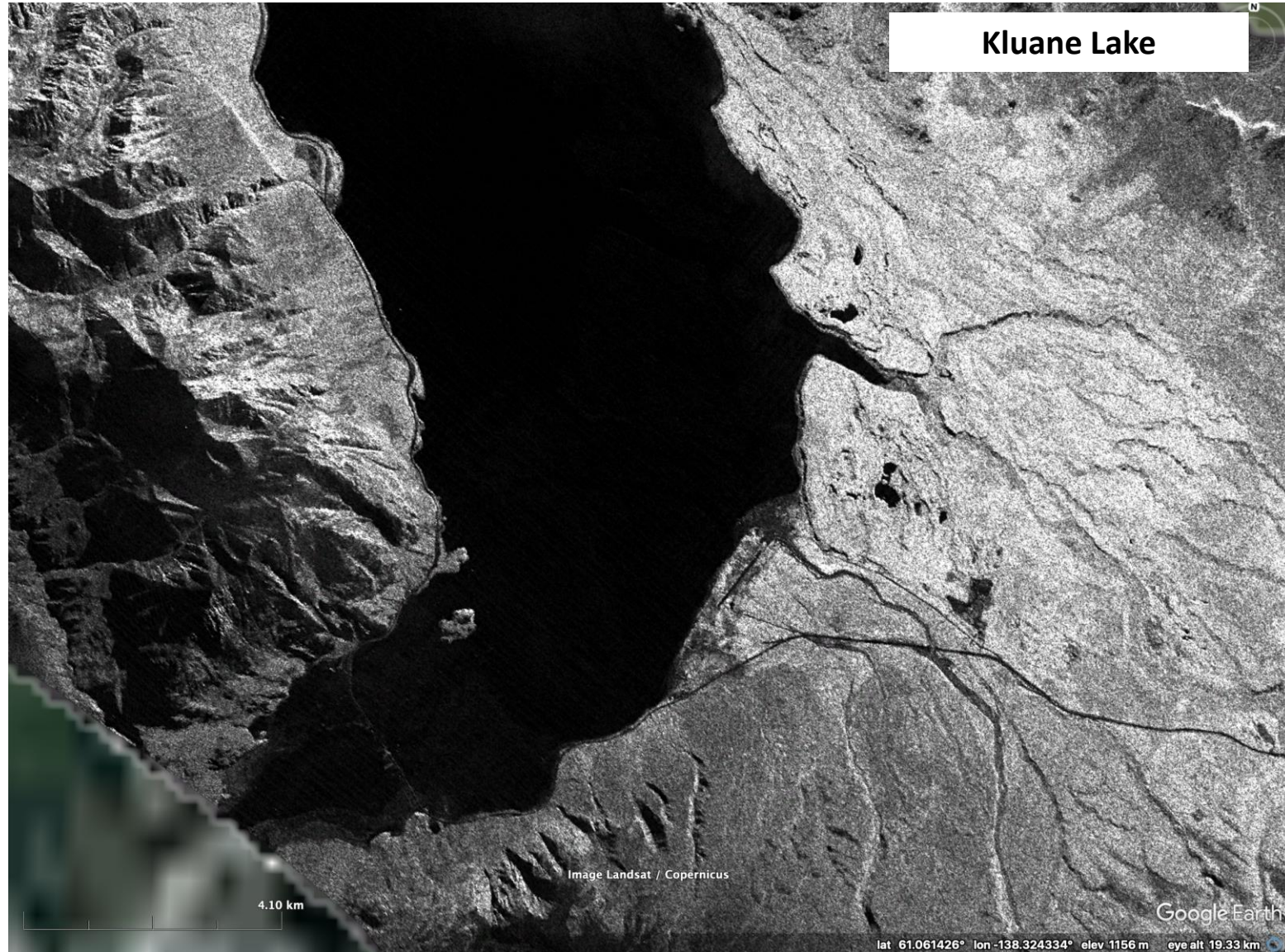
lat 60.267910° lon -123.50



Fort Liard 8/17/24 As Flown

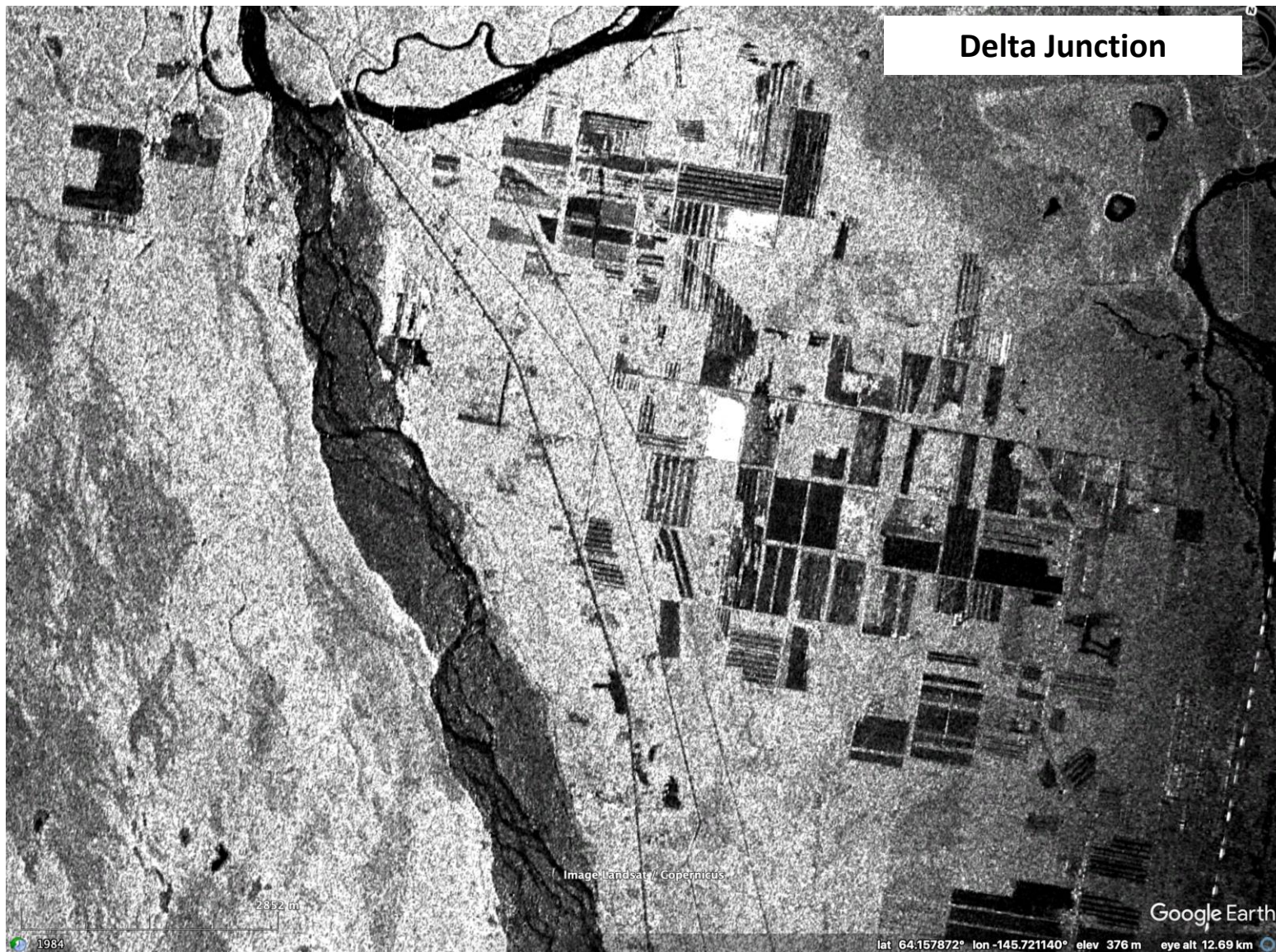


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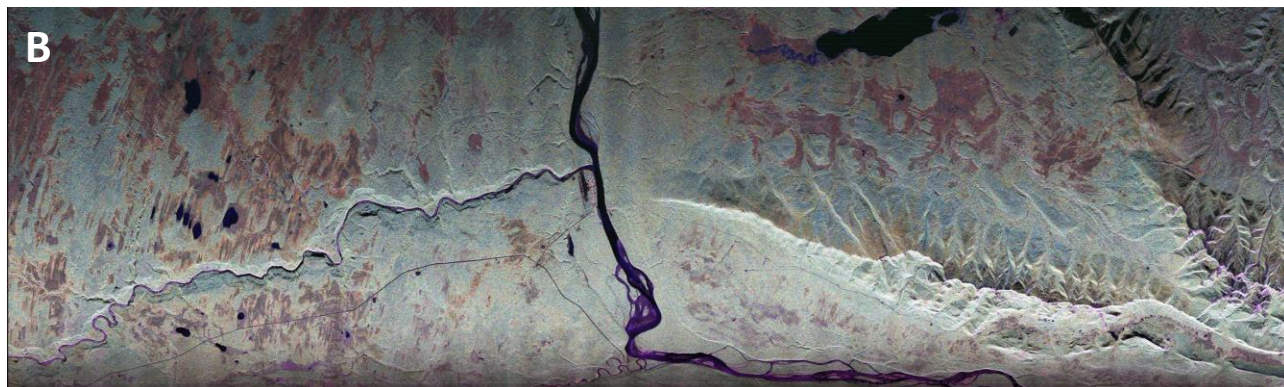
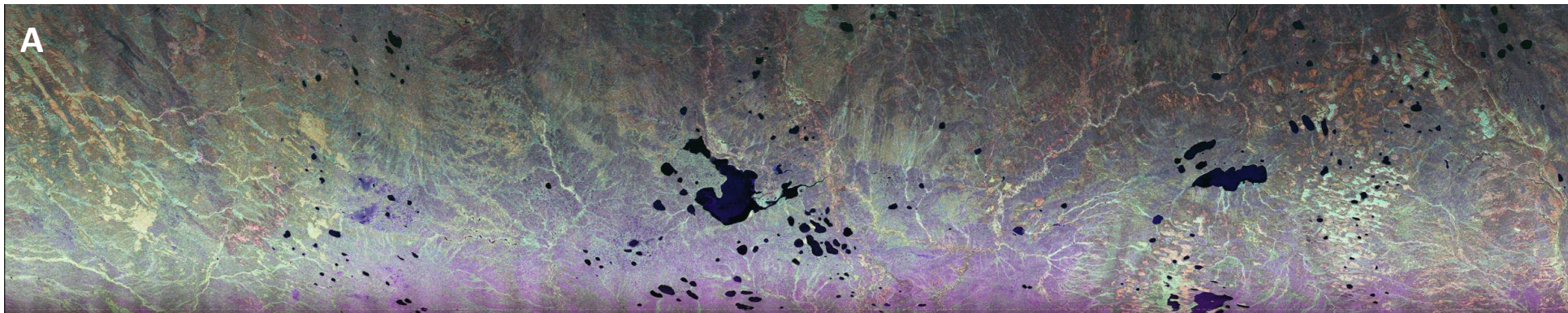


UAVSAR Quick-look products

A. Line 1: scoai_20027

B. Line 2: fliard_33021

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Yellowknife NT – Fairbanks AK Transit

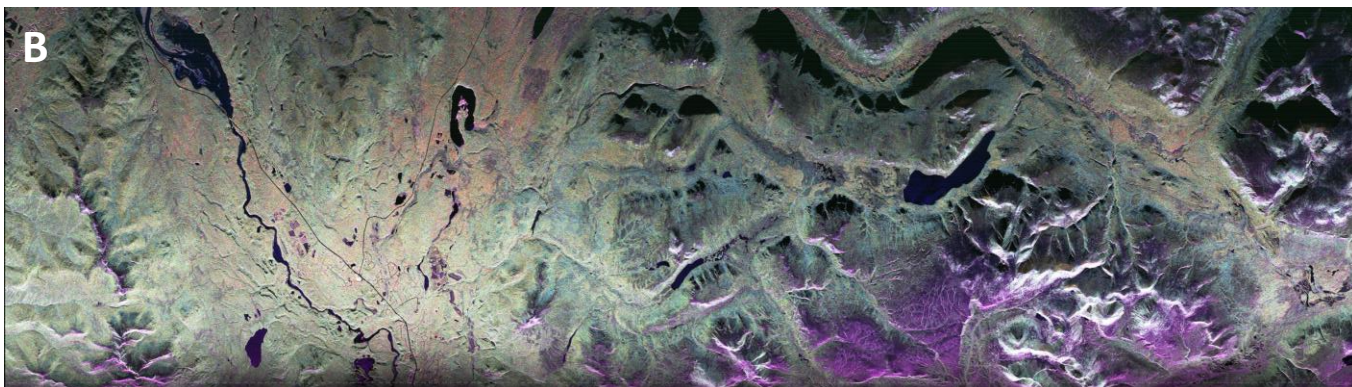


UAVSAR Quick-look products

A. Line 3: watson_27510

B. Line 4: wolfc_r_23602

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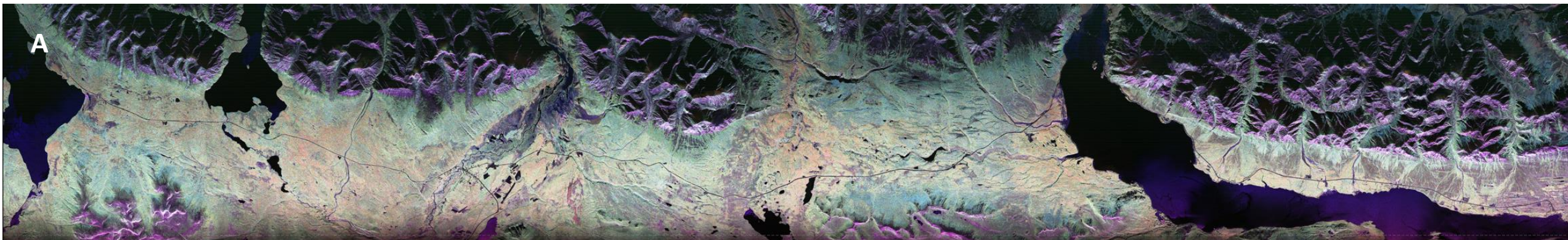
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UAVSAR Quick-look products

- A. Line 5: **kluanA_30806**
- B. Line 6: **snagyk_31040**

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Quicklook not available



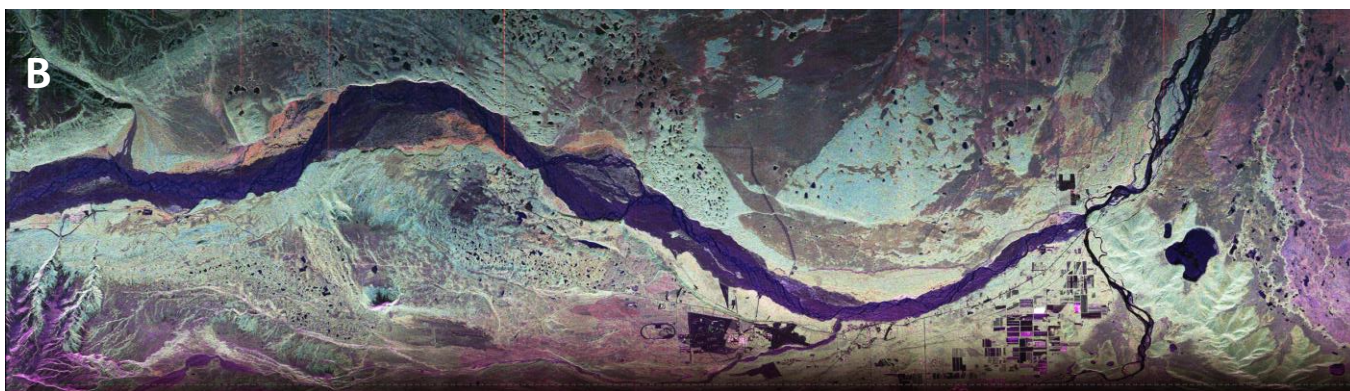
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UAVSAR Quick-look products

- A. Line 7: deltjC_30204
- B. Line 8: djNEON_00101

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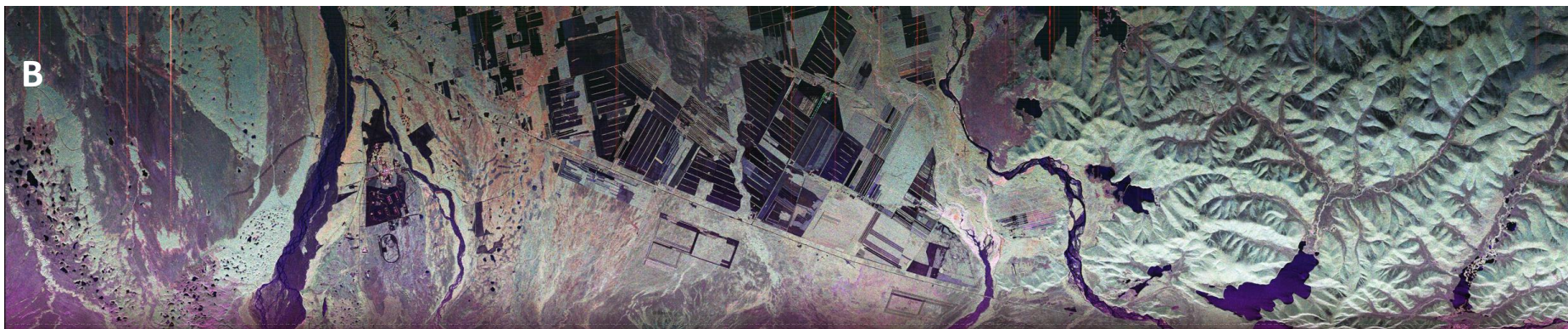
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UAVSAR Quick-look products

- A. Line 9: **deltaR_12227**
- B. Line 10: **deltjB_10204**

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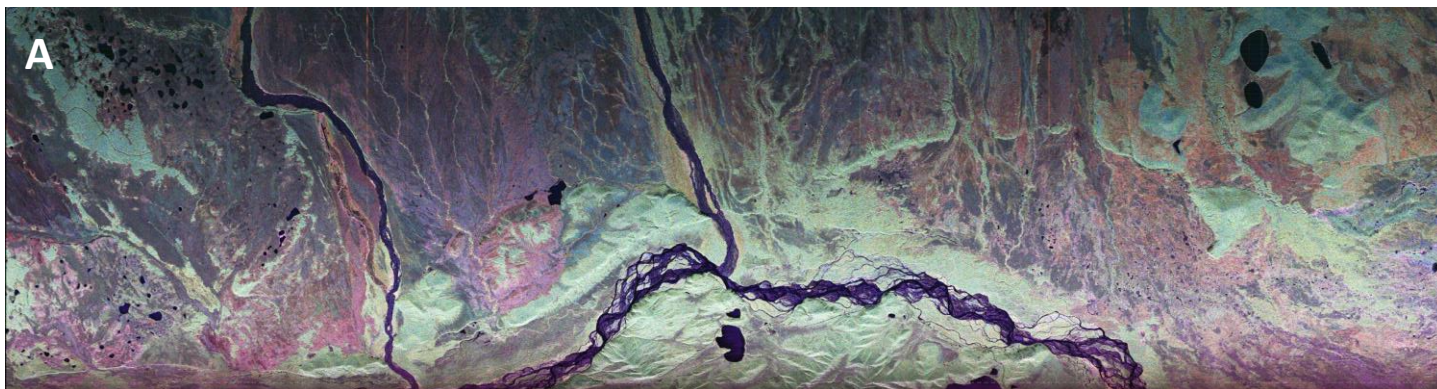
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UAVSAR Quick-look products

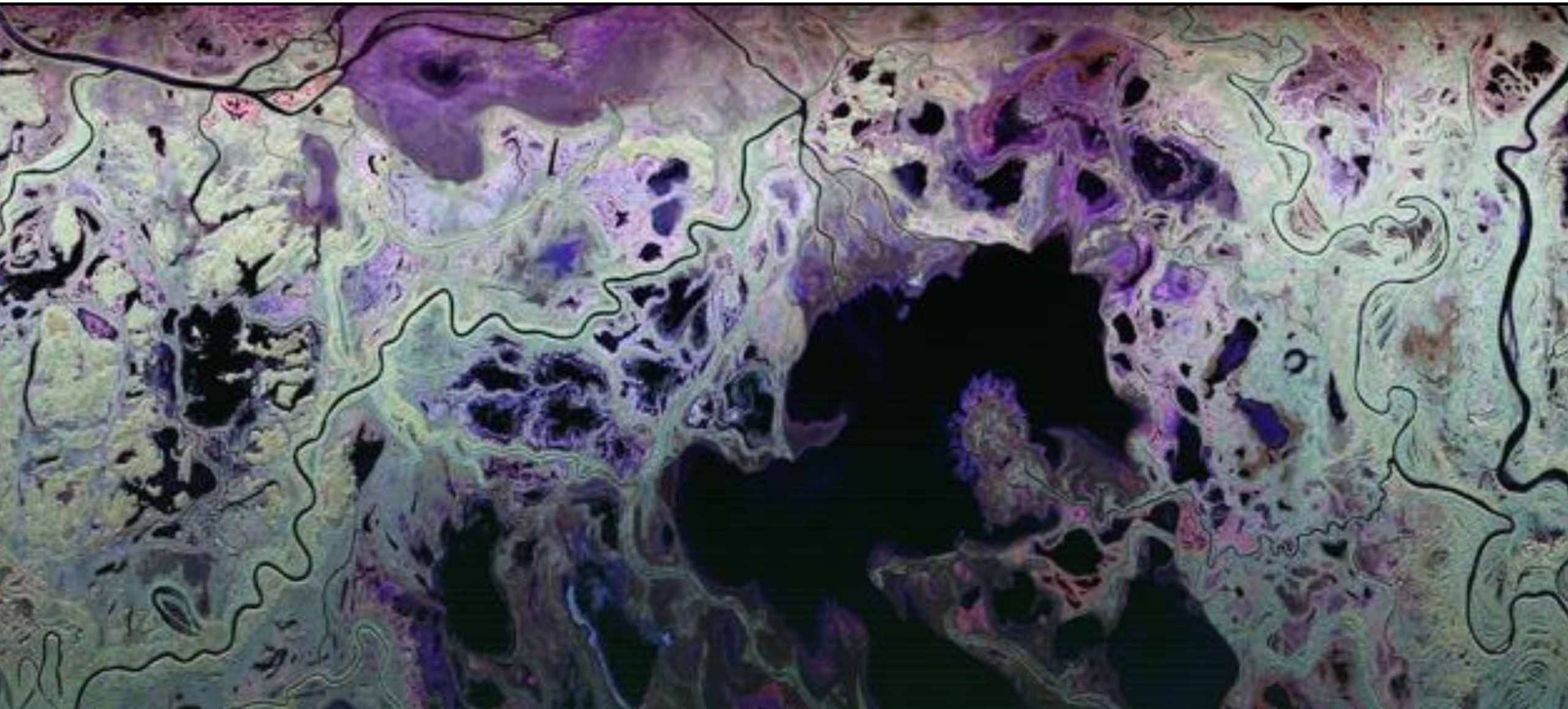
A. Line 11: `deltjA_3040`

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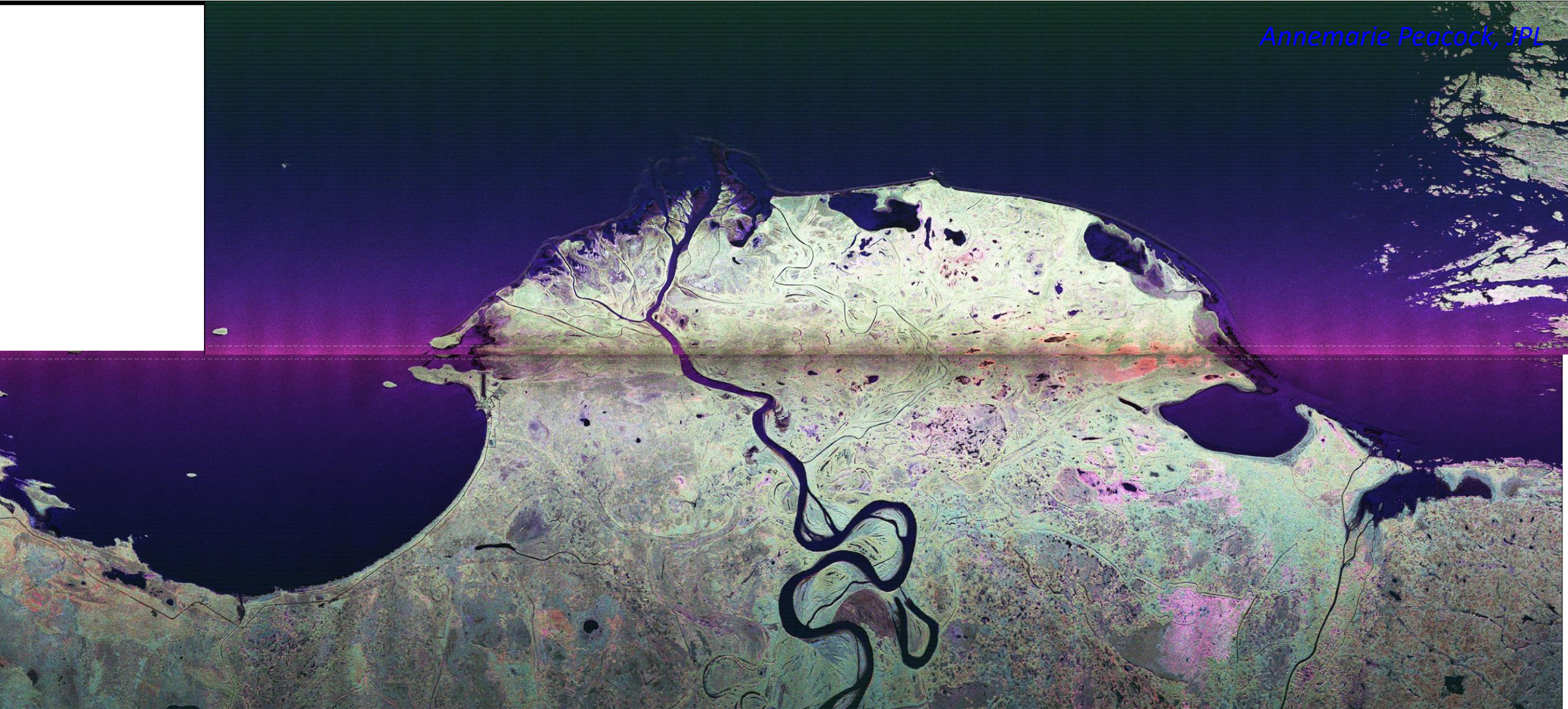




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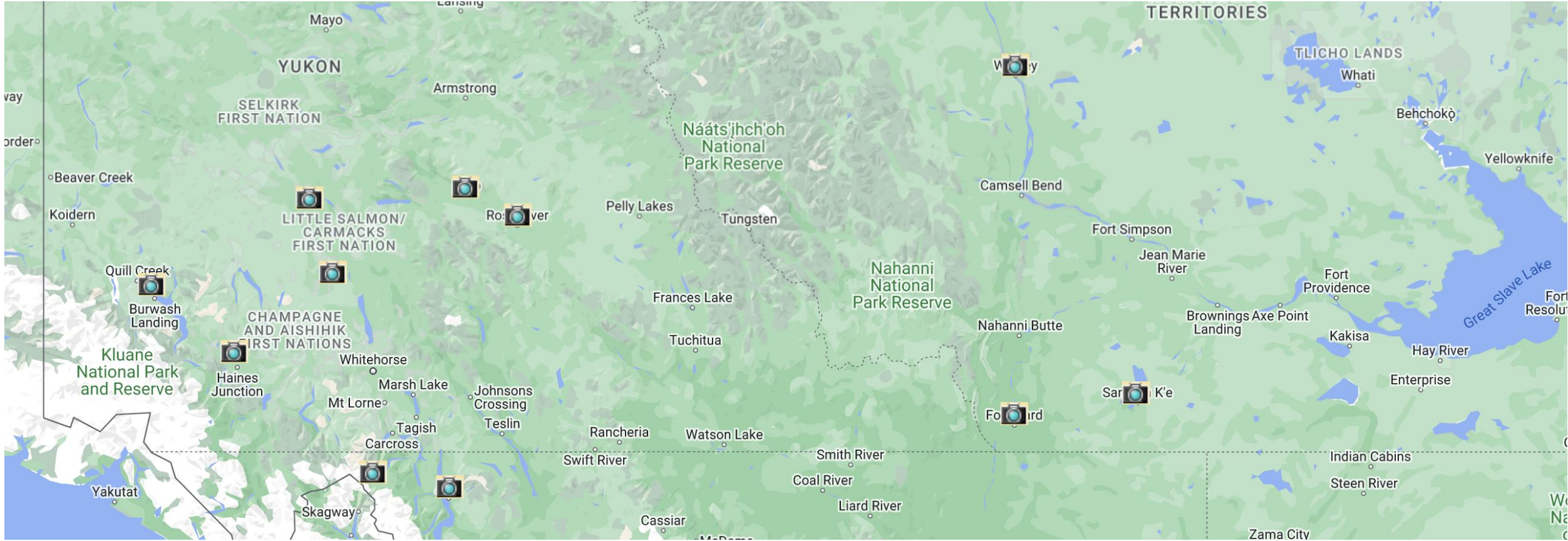
17 August 2024/DOY 230
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BACKUP



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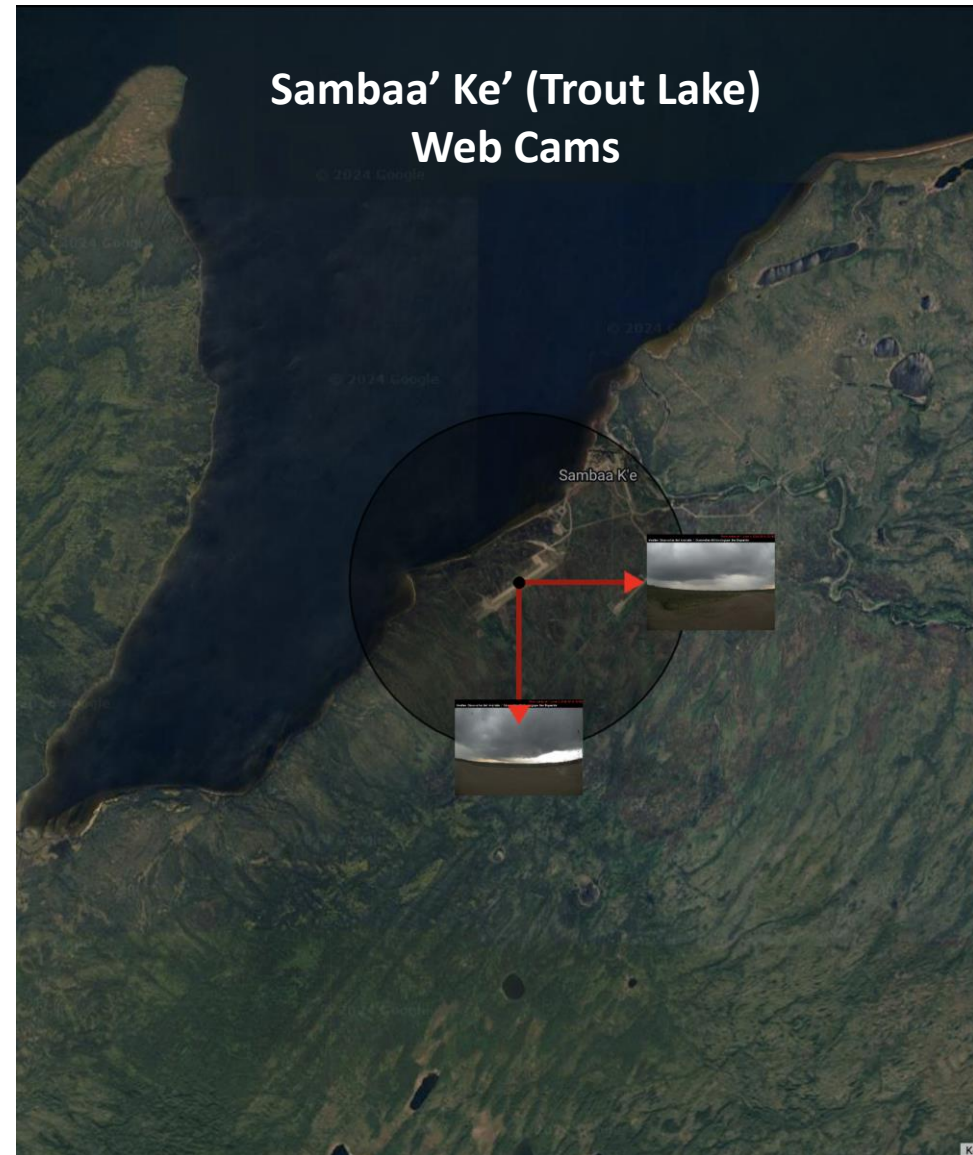




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Sambaa' Ke' (Trout Lake) Web Cams



SACN61 CYPY 131800 Photo taken at / prise a 2024-08-13 18:50Z
METAR CYPY 131800Z AUTO 18004KT 150V230 9SM CLR 25/14 A2971 RMK SLP066 DENSITY ALT 2400FT



SACN61 CYPY 131800 Photo taken at / prise a 2024-08-13 18:50Z
METAR CYPY 131800Z AUTO 18004KT 150V230 9SM CLR 25/14 A2971 RMK SLP066 DENSITY ALT 2400FT



SACN61 CYPY 131800 Photo taken at / prise a 2024-08-13 18:50Z
METAR CYPY 131800Z AUTO 18004KT 150V230 9SM CLR 25/14 A2971 RMK SLP066 DENSITY ALT 2400FT

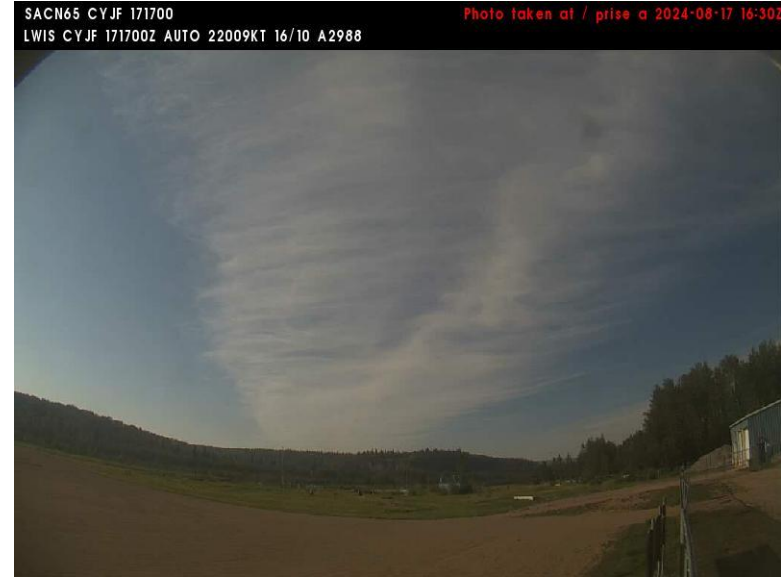
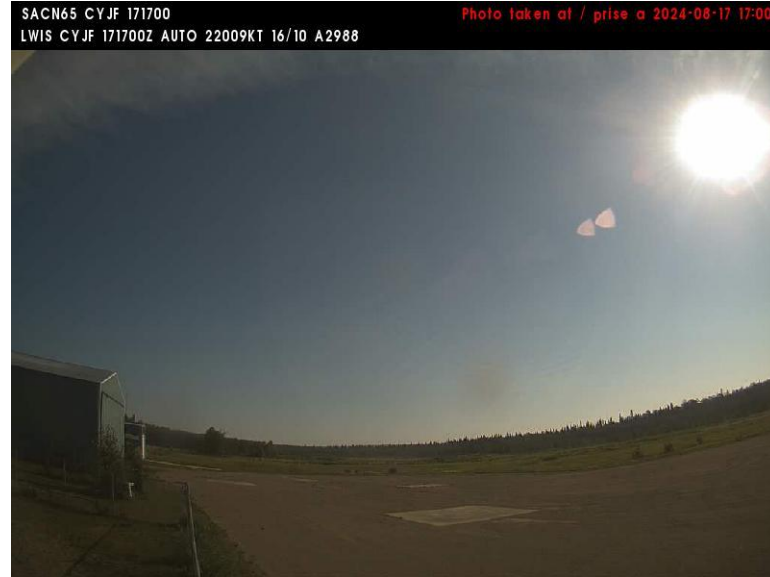
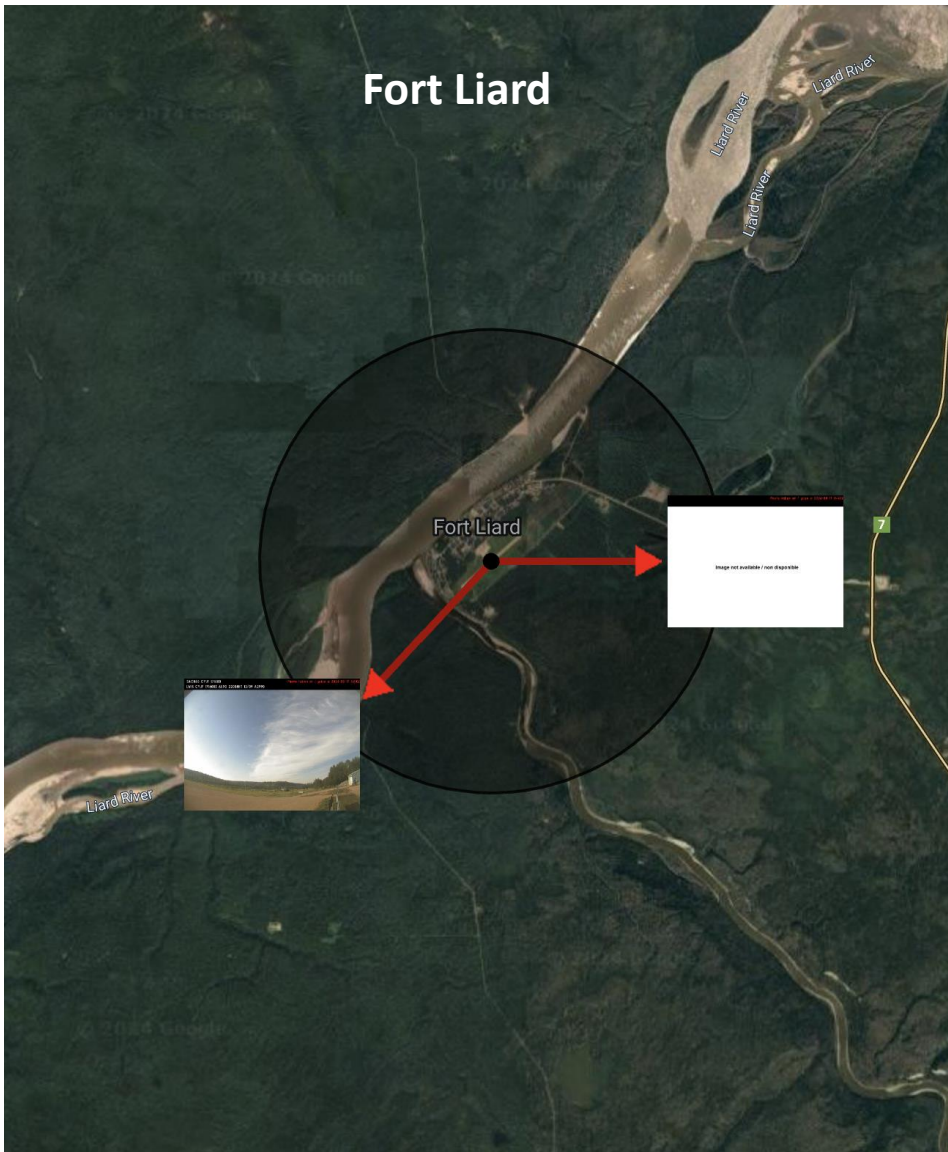


SACN61 CYPY 131800 Photo taken at / prise a 2024-08-13 18:50Z
METAR CYPY 131800Z AUTO 18004KT 150V230 9SM CLR 25/14 A2971 RMK SLP066 DENSITY ALT 2400FT



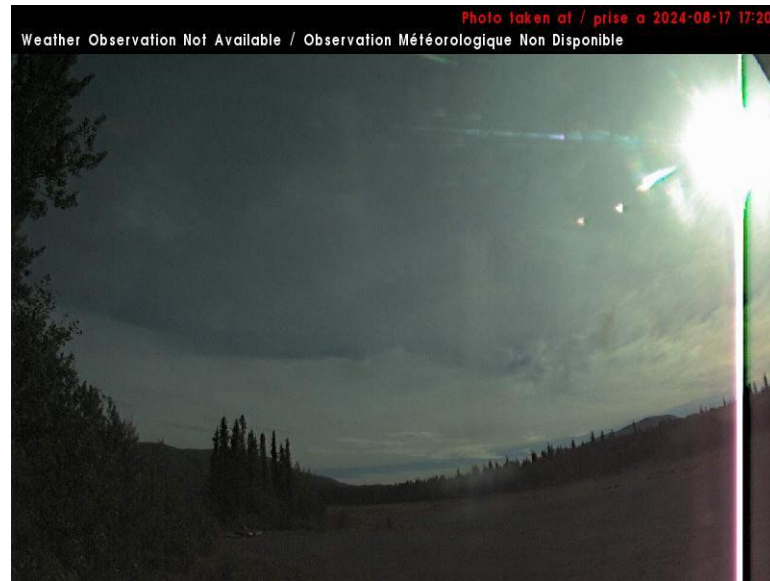
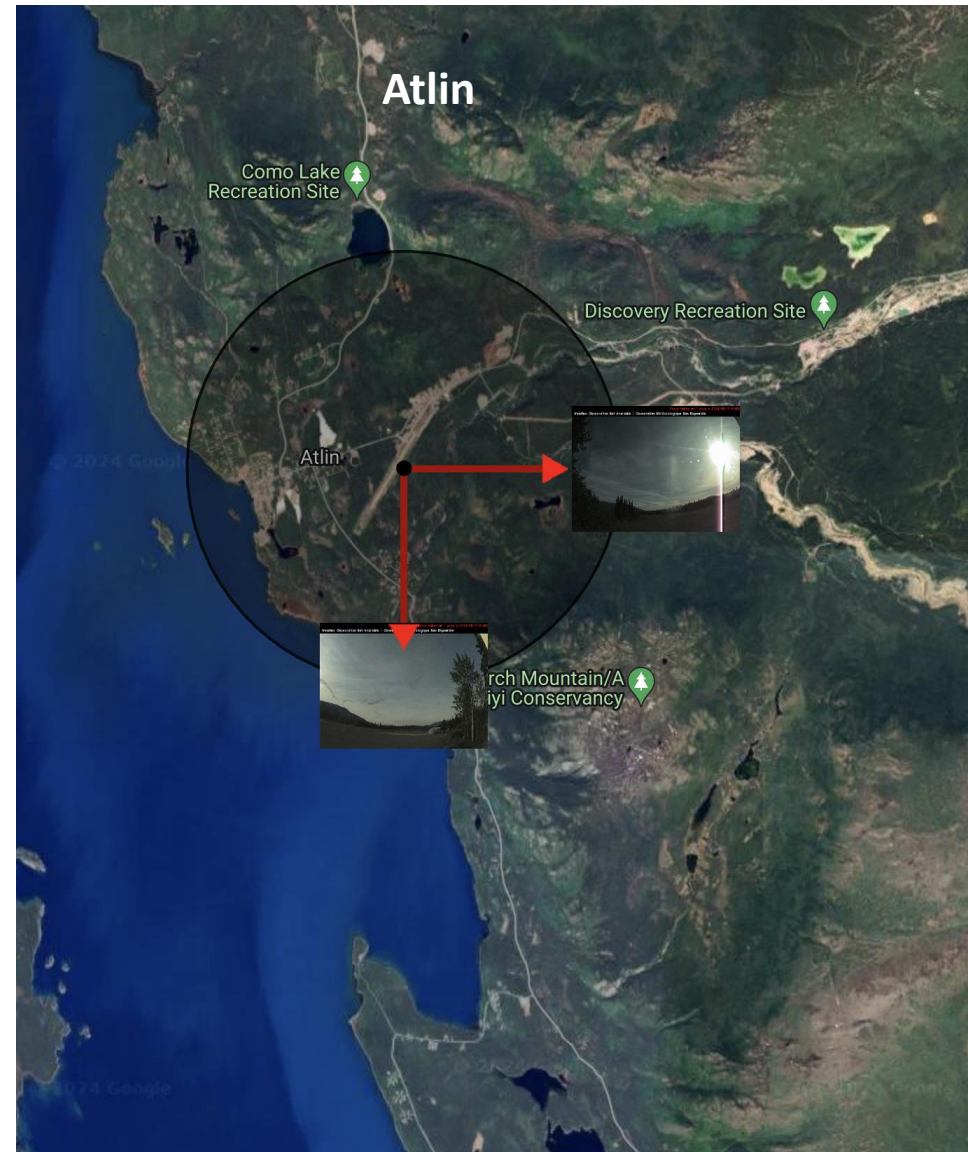


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17 August 2024/DOY 230 Yellowknife NT – Fairbanks AK Transit

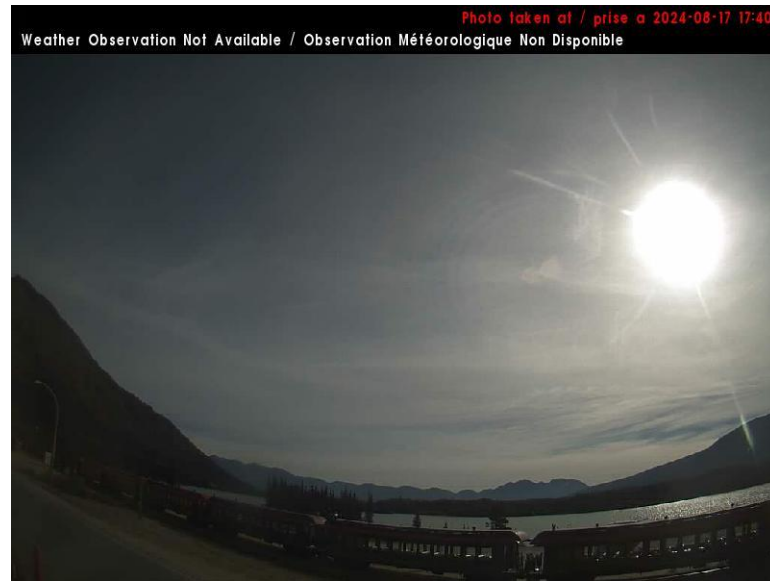


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Haines Junction

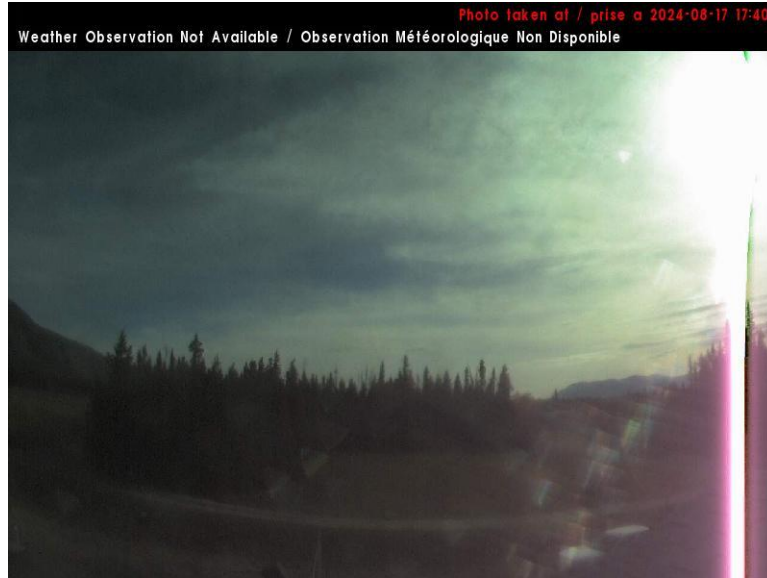


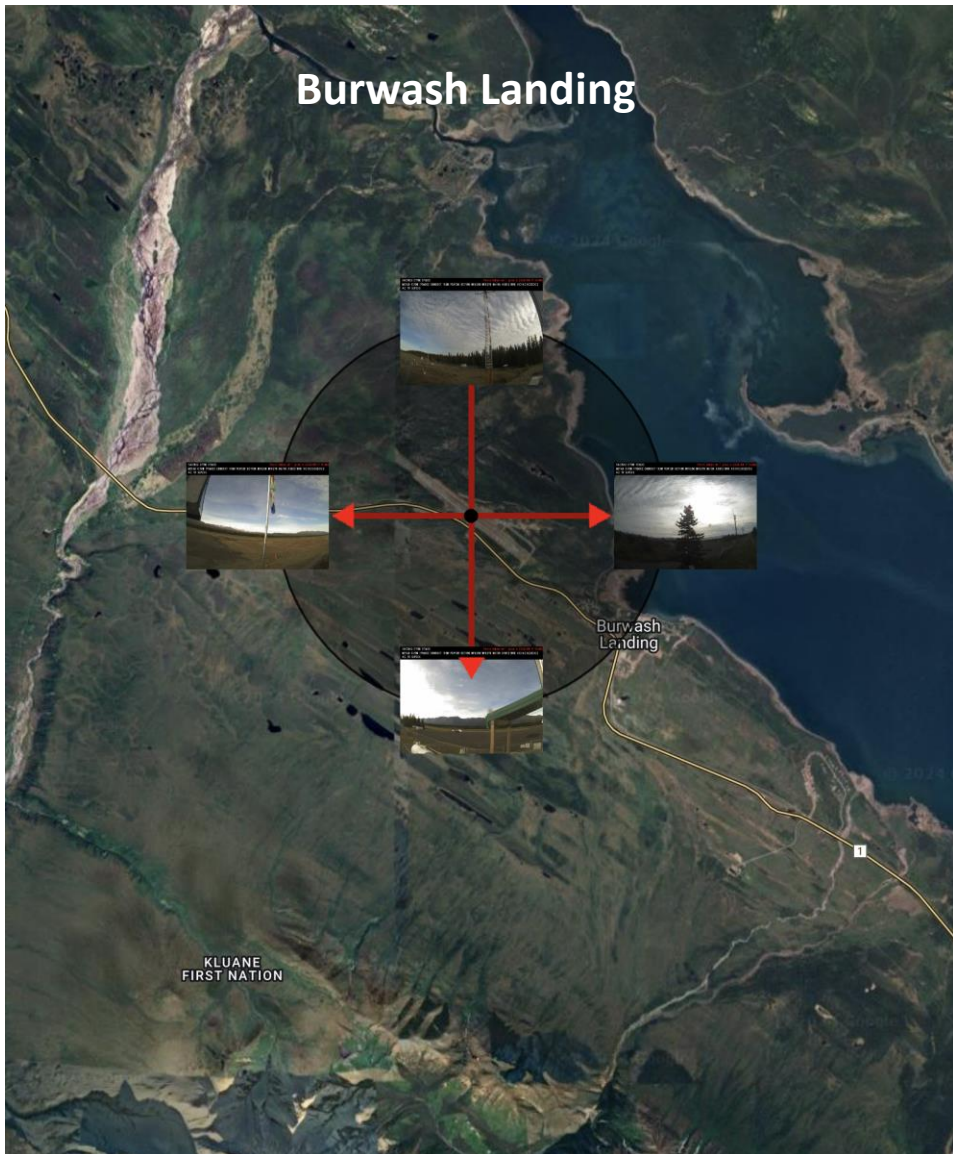
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17 August 2024/DOY 230 Yellowknife NT – Fairbanks AK Transit



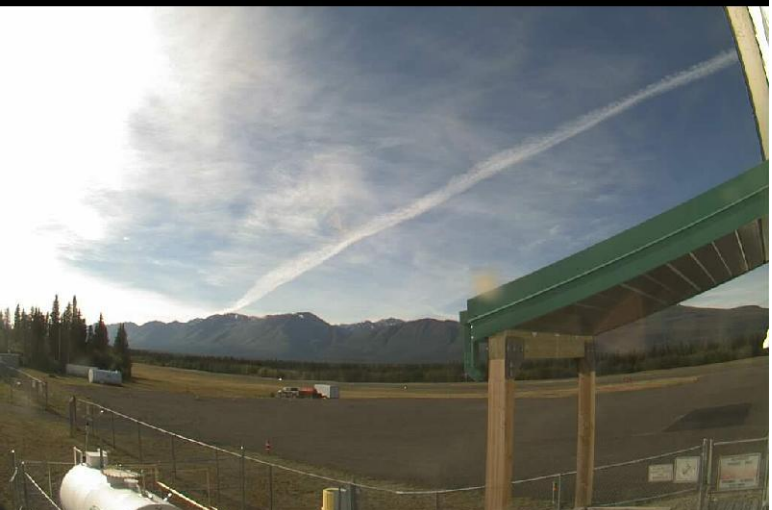
Burwash Landing



SACN62 CYDB 171700 Photo taken at / prise a 2024-08-17 17:40Z
METAR CYDB 171700Z 14003KT 100V180 15SM FEW100 SCT170 BKN250 BKN270 11/06 A3014 RMK
AC1AC3CC2C11 AC TR SLP227



SACN62 CYDB 171700 Photo taken at / prise a 2024-08-17 17:40Z
METAR CYDB 171700Z 14003KT 100V180 15SM FEW100 SCT170 BKN250 BKN270 11/06 A3014 RMK
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SACN62 CYDB 171700 Photo taken at / prise a 2024-08-17 17:40Z
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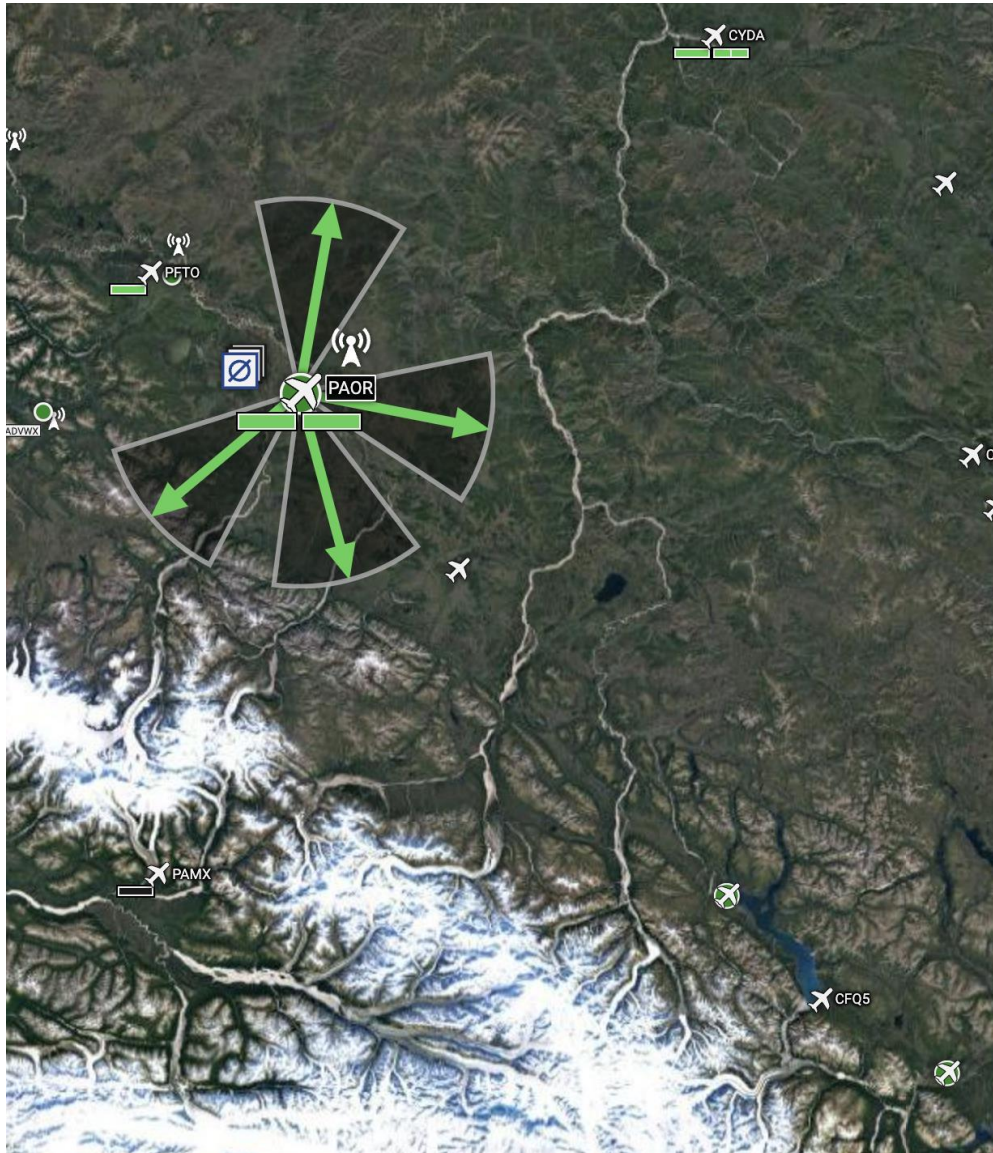
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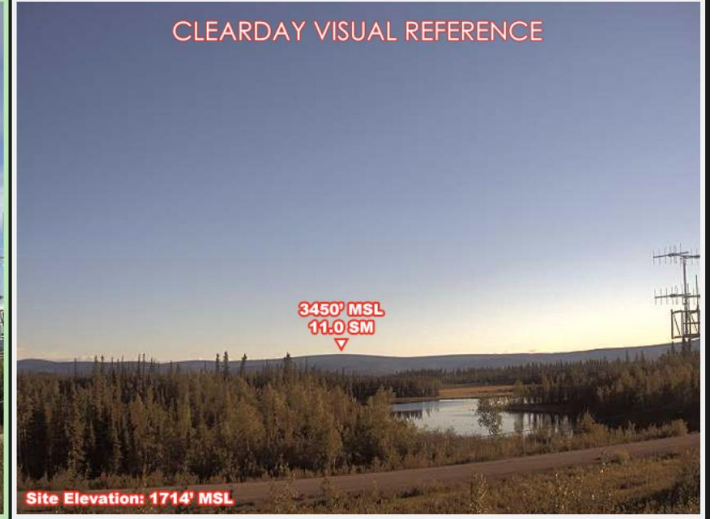
17 August 2024/DOY 230

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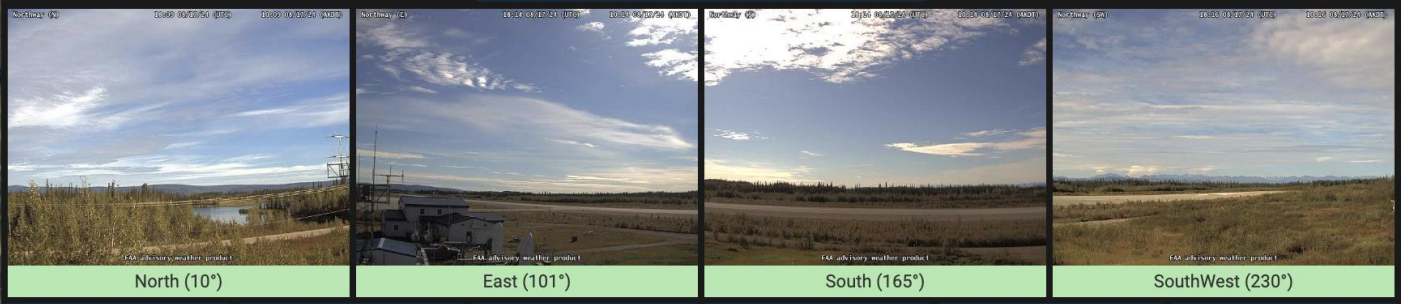


Northway (PAOR) UTC:18:17 Local:10:17

METAR PAOR 171753Z 10005KT 10SM SCT100 BKN120 16/08 A3009 RMK AO2 SLP186 T01560083 10156 20094 58002 \$



Show Camera Loop



Weather Data | Weather Trends | PIREPs | RCO | Airport Info | NOTAMs (PilotWeb)



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Tok (6K8)

UTC:18:17 Local:10:17

Tok (N) 18:14 08/17/24 (UTC) 10:14 08/17/24 (AKDT)

FAA advisory weather product

CLEARDAY VISUAL REFERENCE

3100' MSL 11.0 SM
2800' MSL 5.5 SM

Site Elevation: 1654' MSL

Show Camera Loop

North (355°) SouthEast (128°) SouthWest (227°) NorthWest (293°)

Weather Data Weather Trends PIREPs RCO Site Info NOTAMS (PilotWeb)

5041,63.32045,7/cameraSite/146/details/camera/10431/f...



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Knob Ridge (CSJ) UTC:18:17 Local:10:17

Knob Ridge (N) 18:18 08/17/24 (UTC) 10:18 08/17/24 (AKDT)

CLEARDAY VISUAL REFERENCE

1900' MSL 1.5 SM
2200' MSL 6.0 SM

Site Elevation: 2153' MSL

Show Camera Loop

| | | | |
|--------------|-----------------|------------------|------------------|
| | | | |
| North (340°) | NorthEast (35°) | SouthEast (120°) | NorthWest (295°) |

Weather Data | Weather Trends | PIREPs | RCO | Site Info | NOTAMs (PilotWeb)



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Yellowknife NT – Fairbanks AK Transit



The main map shows a satellite view of the Salcha region in Alaska. A central point labeled 'Salcha' has several green arrows pointing outwards to various weather stations: PACE, CFS4, PAFA, PAEI, PANN, PAAN, PAIN, PATW, ADVWX, PFTO, PAXK, and PAGK. The central panel provides detailed weather information for Salcha (EILW).

Salcha (EILW) UTC:18:17 Local:10:17

Salcha (NE) 18:15 08/17/24 (UTC) 10:15 08/17/24 (AKDT)

CLEARDAY VISUAL REFERENCE

Salcha Bluff
1631' MSL
6.3 SM

2850' MSL
18.0 SM

Site Elevation: 1354' MSL

FAA advisory weather product

Show Camera Loop

| | | | | | |
|-----------------|------------------|------------------|------------------|-----------|-------------------|
| NorthEast (35°) | SouthEast (150°) | SouthWest (240°) | NorthWest (310°) | | |
| Weather Data | Weather Trends | PIREPs | RCO | Site Info | NOTAMs (PilotWeb) |



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Yellowknife NT – Fairbanks AK Transit



Delta Junction (BIG) UTC:18:18 Local:10:18

Delta Junction (NE) 18:11 08/17/24 (UTC) 10:11 08/17/24 (AKDT)

CLEARDAY VISUAL REFERENCE

2450' MSL 14.0 SM
3500' MSL 18.5 SM

Site Elevation: 1145' MSL

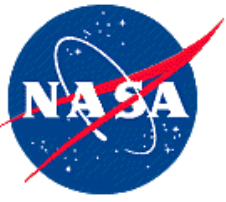
FAA advisory weather product

Show Camera Loop

| | | | |
|-----------------|------------------|--------------|------------------|
| | | | |
| NorthEast (25°) | SouthEast (120°) | South (188°) | NorthWest (325°) |

Weather Data | Weather Trends | PIREPs | RCO | Site Info | NOTAMs (PilotWeb)

40.98627,64.05655,7/cameraSite/154/details/camera/10463/...



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Yellowknife NT – Fairbanks AK Transit



Ester Dome (FAI)

UTC:18:18 Local:10:18

Ester Dome (N) 18:18 08/17/24 (UTC) 10:18 08/17/24 (AKDT)

CLEARDAY VISUAL REFERENCE

1900' MSL
1.0 SM

Ridgeline
1700' MSL
5.5 SM

Site Elevation: 2360' MSL

FAA advisory weather product

Show Camera Loop

| | | | |
|-------------|------------------|------------------|-------------|
| | | | |
| North (12°) | SouthEast (126°) | SouthWest (235°) | West (280°) |

| | | | | | |
|--------------|----------------|--------|-----|-----------|-------------------|
| Weather Data | Weather Trends | PIREPs | RCO | Site Info | NOTAMs (PilotWeb) |
|--------------|----------------|--------|-----|-----------|-------------------|