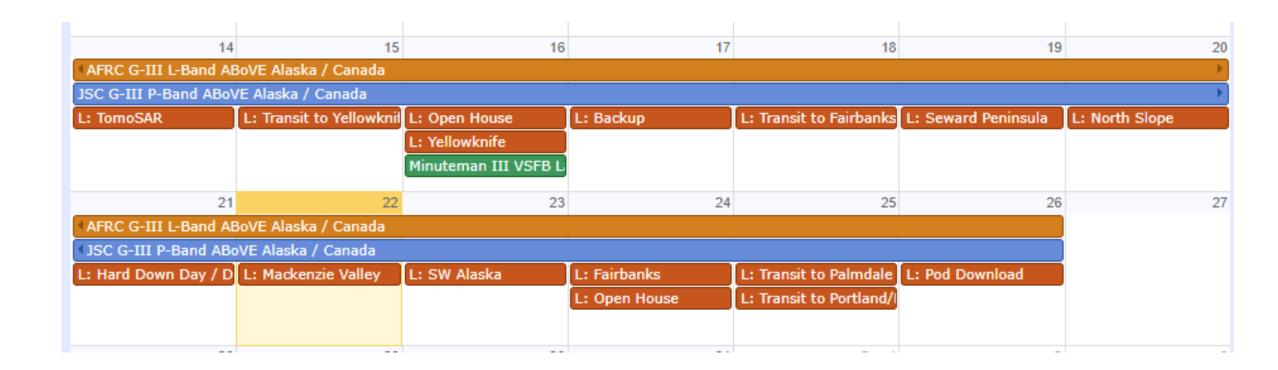




# Deployment Calendar 22 August 2022



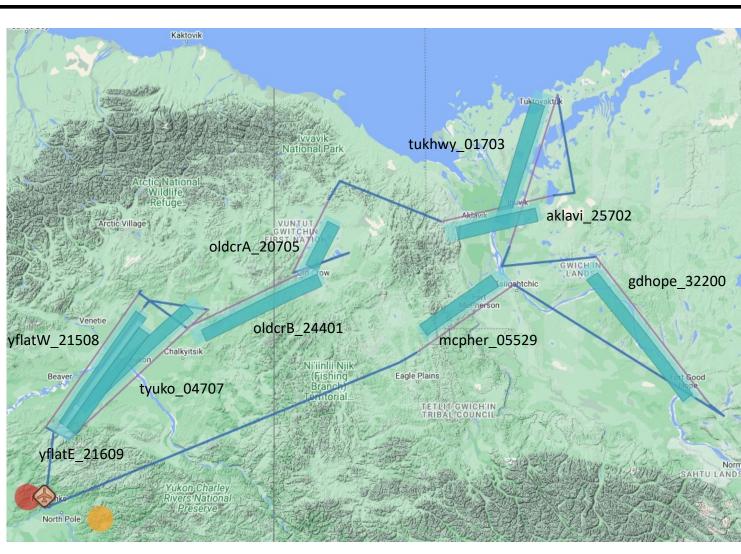
The bonanW\_03603 line from the Fairbanks Local sortie has been shortened, only the area North of the Murphy Dome Keepout Zone will be imaged. A mitigation plan was developed to image areas of interest. This change was necessary as the team could not get permission from the Air Force to transmit in the Murphy Dome Air Force Radar Keep Out Zone.







- PAFA Fairbanks FBO Alaska Aerofuel
- Crew: Liz Ruth, Shawn "Biggs" Kern, Joe Piotrowski
- Instrument Operator: David Austerberry
- Data Processor: Adam Vaccero
- Scientist On Board: Liz Hoy
- Science Flight takeoff at 0900 local
- Flight Plan <u>1813\_v01</u>; Flown Plan: <u>22037</u>
- 9 lines planned, 8 lines flown with no issues
- Nominal Aircraft Operations
- Radar dropped half of line 32200
- Sonnentag and K.Turner teams in the field
- Wx: partly to mostly cloudy, no precipitation
- Landed in PAFA Fairbanks FBO Alaska Aerofuel





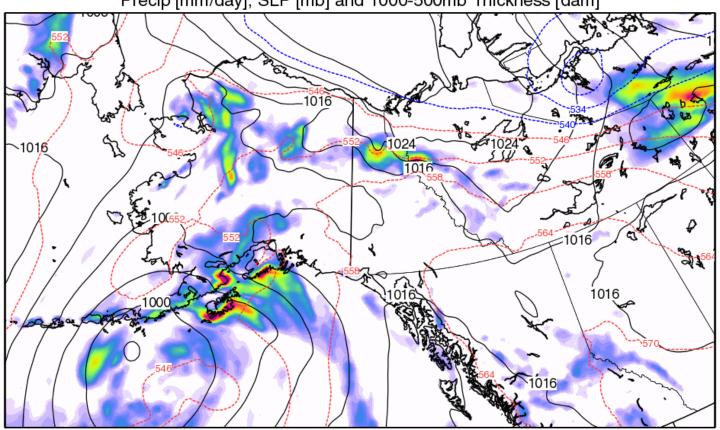




**GMAO** 

NASA/GMAO - GEOS Forecast Initialized on 18z 08/22/2022

Precip [mm/day], SLP [mb] and 1000-500mb Thickness [dam]

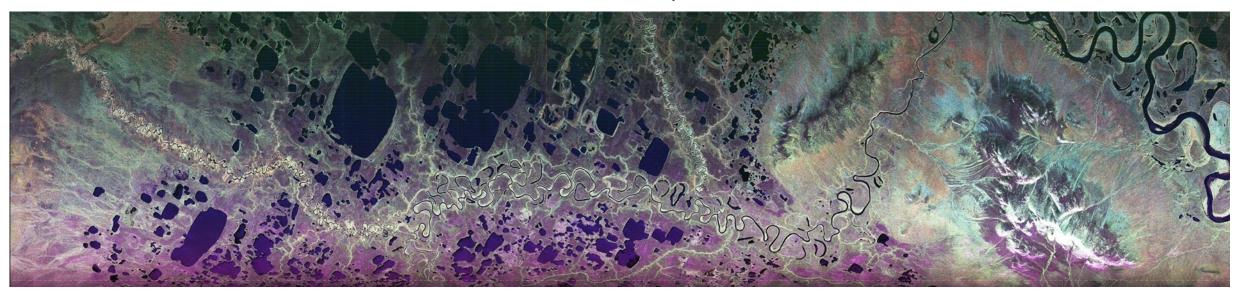


000 hr forecast valid Mon 18z 2022-08-22





#### False color PolSAR Quicklooks

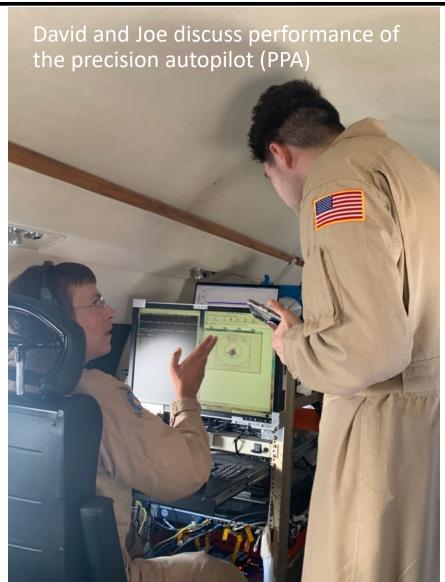


oldcrA\_20705 - Old Crow Flats – K. Turner team is on site, recent burn scar under study, hydrological changes, permafrost tukhwy\_01703 - Tuk Highway - Sonnentag team is on site, Radio Frequency Interference will be removed during post-processing











Team visit to the Permafrost Tunnel with Tom Douglas

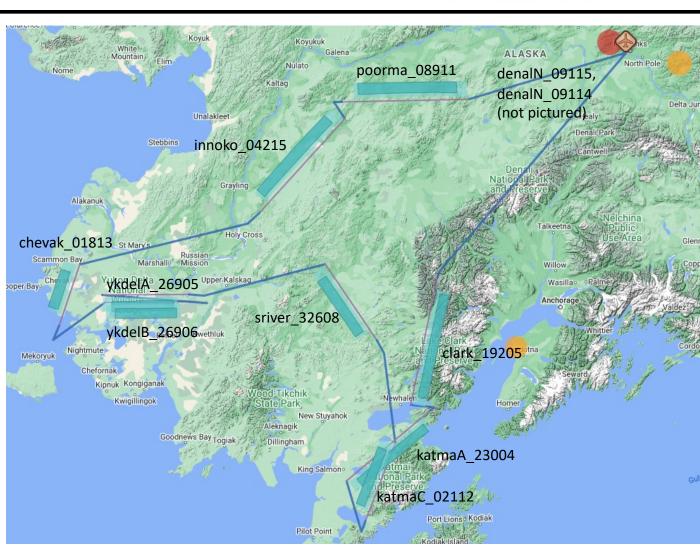
NASA802 preparing for takeoff from Fairbanks







- PAFA Fairbanks FBO Alaska Aerofuel
- Crew: Liz Ruth, Shawn "Biggs" Kern, Joe Piotrowski
- Instrument Operator: David Austerberry
- Data Processor: Adam Vaccero
- Scientist On Board: Liz Hoy
- Guest Scientist: Franz Meyer
- NASA Communications: Katie Jepson, Sofie Bates
- Science Flight takeoff at 0900 local
- Flight Plan <u>1814 v01</u>
- 11 lines planned, 10 lines flown with no issues
- Nominal Aircraft Operations
- Radar dropped half of line denalN\_09114 this will be included in the Fairbanks Local plan
- Peter Kirchner's monitoring stations collecting in SW Alaska
- Wx: partly to mostly cloudy, some light precipitation possible
- Landed in PAFA Fairbanks FBO Alaska Aerofuel





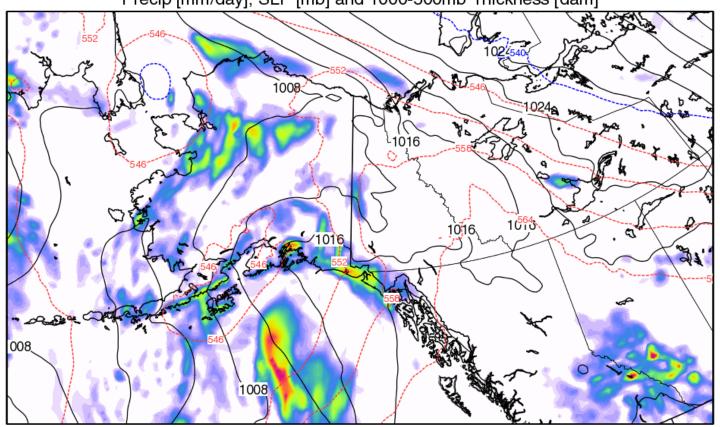


NASA

**GMAO** 

#### NASA/GMAO - GEOS Forecast Initialized on 18z 08/23/2022

Precip [mm/day], SLP [mb] and 1000-500mb Thickness [dam]

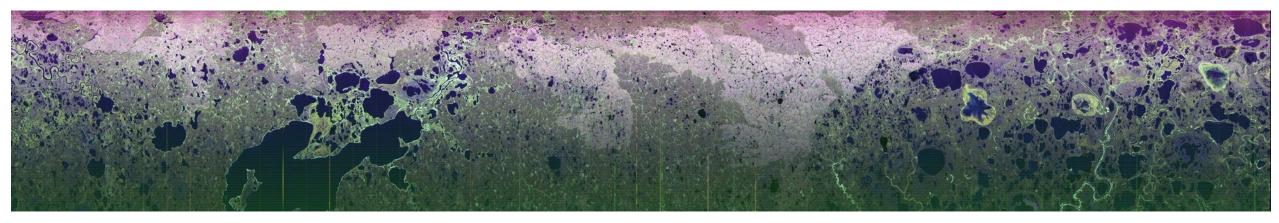


000 hr forecast valid Tue 18z 2022-08-23





#### False color PolSAR Quicklooks



ykdelA\_26905 - rich fire history visible



denalN\_09115 - Eight Mile Lake and NEON site in Healy, Matt Macander in the field







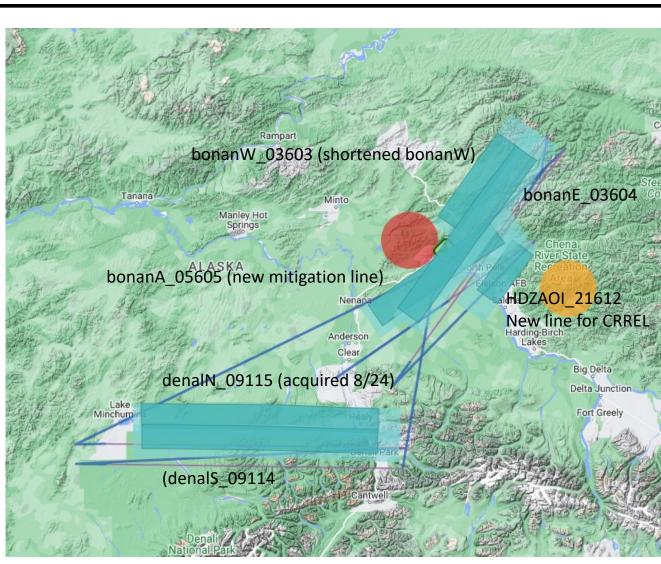








- PAFA Fairbanks FBO Alaska Aerofuel
- Crew: Liz Ruth, Shawn "Biggs" Kern, Joe Piotrowski
- Instrument Operator: David Austerberry
- Data Processor: Adam Vaccero
- Scientist On Board: Peter Griffith
- Guest Scientist: Britta Schroeder, Denali National Park GIS Analyst
- Science Flight takeoff at 0900 local
- Flight Plan 1813\_v01
- 5 lines planned, 5 lines flown with no issues (denalN\_09115 collected on 23 August)
- Nominal Aircraft Operations
- No issues with the radar
- Matt Macander in field at Eight Mile Lake & Liz Hoy in the field at Creamers Field
- Wx: partly to mostly cloudy, scattered light precipitation
- Landed in PAFA Fairbanks FBO Alaska Aerofuel
- Open House





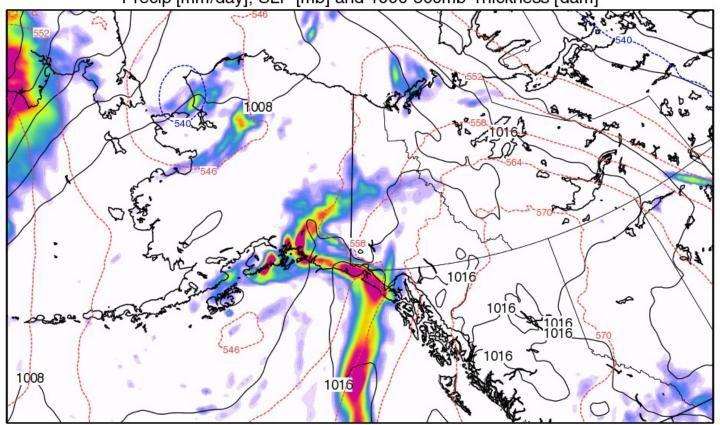


NASA

**GMAO** 

NASA/GMAO - GEOS Forecast Initialized on 18z 08/24/2022

Precip [mm/day], SLP [mb] and 1000-500mb Thickness [dam]

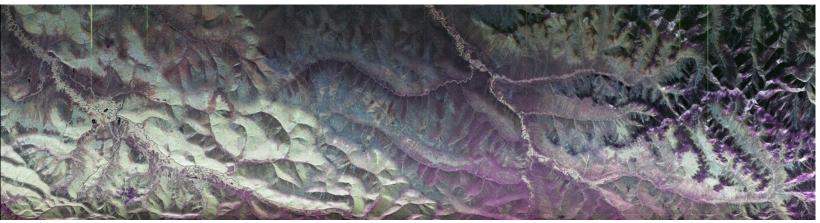


000 hr forecast valid Wed 18z 2022-08-24





#### False color PolSAR Quicklooks



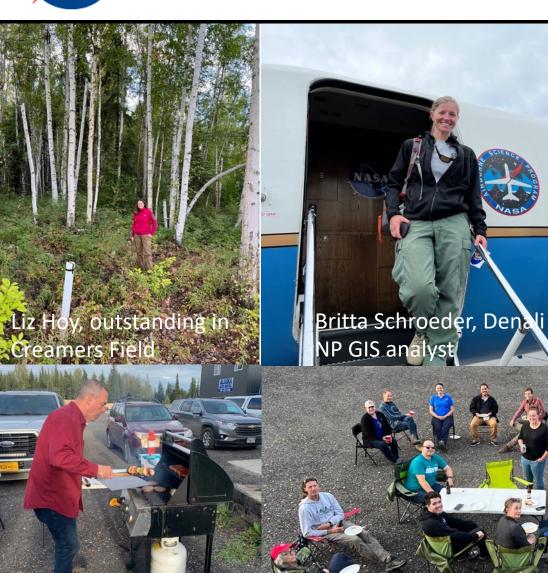
bonanW\_03603 – collaborations with CRREL and others, Liz Hoy in the field

HDZAOI\_21612 – collaborations with CRREL and others









The Grillmaster











#### 25 August 2022 Transit Fairbanks via Portland to Palmdale



- PAFA FBO Alaska Aerofuel
- Crew: Liz Ruth, Shawn (Biggs) Kern, Joe Piotrowski, Carrie Worth, Vince Moreno, Steve Kuykendall, Otis Allen, Alvin Mitchell
- Instrument Operator: David Austerberry
- Data Processor: Adam Vaccero
- Transit Flight takeoff at 0900 local
- Flight Plan 1816 v01
- 2 lines planned for Natural Resources Canada Glacier studies, 2 lines flown with no issues
- Nominal Aircraft Operations
- Wx: scattered light precipitation
- Gas-and-go in Portland OR
- Landed in Palmdale California

