





Flying the Scenic Route

Flight Planning from Orlando to Alaska and Back Again

Ryan Binns • Spring 2024





We're Ryan and Katherine (and Magic)

- Married in 2019
- Live in Orlando, FL
- We're both Software Engineering Managers
- Bought our Mooney in January 2021
- We love to fly! Before this...
 - o 46 States
 - o 3 Canadian Provinces
 - All with our dog Magic (Cavalier King Charles Spaniel)





Prior Flying Experience

- Flying since 2006
- Independent CFI/CFII (2020)
 - o ~1,400 hours (600 M20J)
- Instrument Current
- Some Canada experience 🍁
 - o BC, Quebec, Toronto
- Some prior mountain/high DA experiences
 - Crossed Rockies x2
 - Landed at Leadville (LXV)
 - o etc.





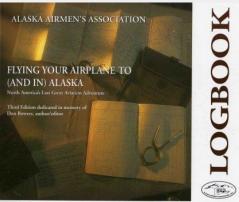


Our Trip Wish List

- See the beautiful Alaskan Coast
 - All the best sights, but dangerous!
 - Be as safe as possible: **wait for good weather**, avoid extended overwater
- See Denali up close
- See McCarthy/Kennecott area
 - This means one gravel strip!
- Go tent camping if possible ___
- Leave Memorial Day weekend, be home by end of June
 - o June is the *least* rainy month in Alaska 🥋
 - Be flexible on schedule, plan for around a month away
 - o Spend a week or 10 days in Alaska.
- Finish visiting all 49 reachable states and all the Canadian provinces we can
 - o Visit Nebraska and North Dakota on the way north
- Return to the Lower 48 via the Seattle and San Francisco areas, to visit family and friends

Preparing for Adventure

- One does not simply fly to Alaska!
- Prepare your aircraft
 - Long shakedown flights!
 - Equip w/ 406MHz ELT, spare tubes, spark plugs, tools, tiedowns, survival gear, etc.
- Research, Research!
 - Routes (fly2ak.com)
 - **Typical Weather Patterns**
 - Availability of fuel, services, hotels, etc.









Which Way to Alaska?

• The Alcan Highway

- Pros: Most common route, usually good weather. Can land on highway in emergency!
- Cons: Very remote in areas, no WX stations, no ATC

• The Coast

- o Pros: Fastest, shortest.
- Cons: Usually IFR with icing, changes rapidly, no emergency landing options at all!

• The Trench

- o Pros: Shorter than Alcan
- Cons: Very remote, no ATC, no WX stations, unpredictable weather, 350nm canyon with no divert options



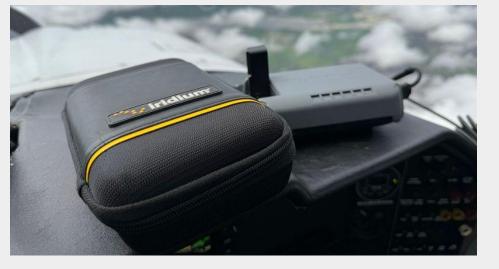
Image by Ted Waltman fly2ak.com





How We Plan

- *Stay flexible*: Plan only for the next stop or two at most
 - Weather will largely dictate our route.
 - Book everything **on arrival!**
- Choose *good places* to stop
 - Access to pet-friendly Hotels or Tent Camping
 - Walkable, cool sights, etc.
 - Vegan food available (HappyCow)
 - Access to 100LL!
 - Always check ForeFlight comments!
- Keep Average Legs < 3 hours (~450nm)
 - o No 'Gatorade Bottles'
- No High Altitude Crossings
 - No Supplemental O2 for Magic!
- No Unnecessary Risks
 - Flying the Coast is out!
 - Stick to following roads, etc.
 - Avoid (mostly) unpaved runways.
 - All Day VFR once in Canada and Alaska.
 - Wait for good weather! **







Camping/Survival Gear

- Emergency and Survival gear is required for flying to Alaska
 - This is a serious route with serious risks
 - Legally required
 - Alaska Statutes Title 2. Aeronautics § 02.35.110
 - 406MHz ELT is mandatory in Canada for N-registered aircraft
- Communications / SOS
 - Dual SIM cellphone, Garmin inReach Mini, Iridium GO! Satellite Phone, Registered 406MHz ELT
- Camping / Survival
 - Food, water, tent, sleeping bags, fire starting supplies, hatchet, mosquito nets and repellant, rope, etc.



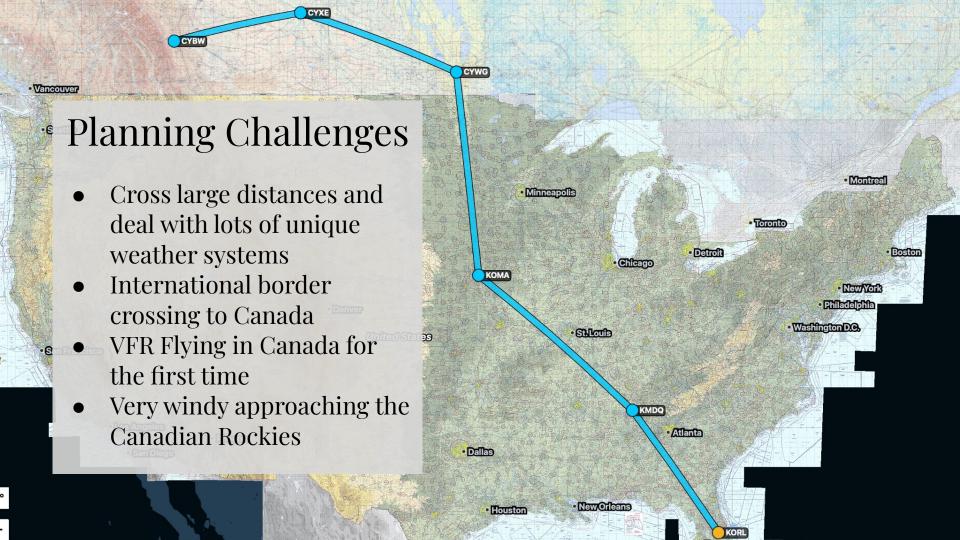
4 Major XCs in One

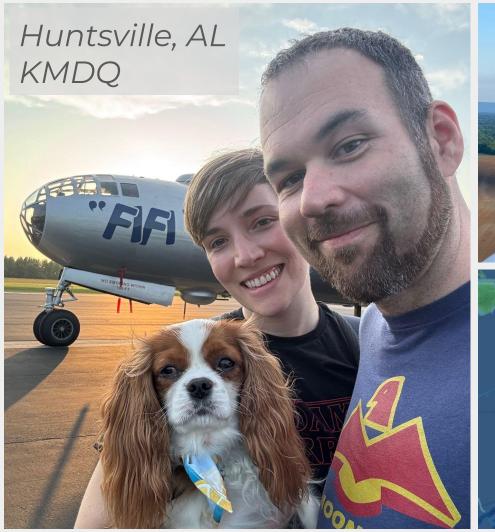
- Crossing the Continent
 Westbound to Banff
- The Alcan Highway and the
 Canadian Rockies (x2)
- The Alaskan Coast and Interior
- Return via the Pacific Northwest
 and American Southwest

Crossing the Continent Westbound to Banff

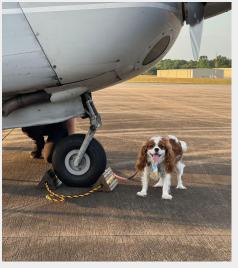
Orlando, FL to Banff, AB 2,246 nm













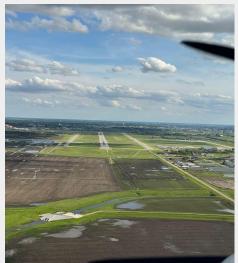






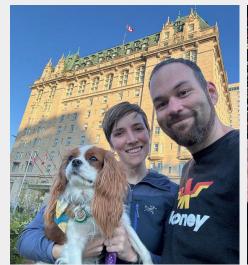
















Flying into Canada



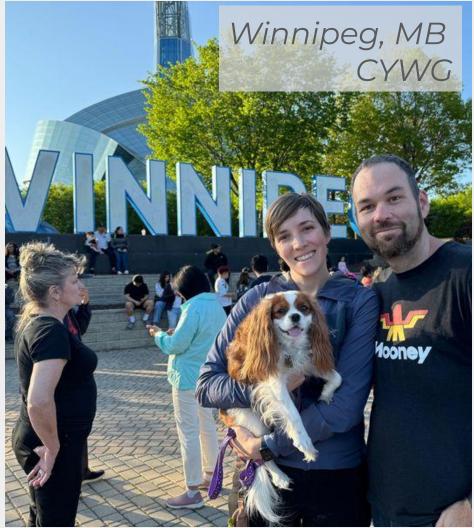
- Need:
 - License / Medical (*No BasicMed*)
 - Radio Operator / Radio Station License
 - FAA Airworthiness / Registration (no temp)
 - Passports / Vaccine cert for dog
 - 406 ELT
 - **CBP Customs Decal**
- An easy process:
 - Call CBSA (1-888-226-7277)
 - >2 hours, <48 hours
 - They will ask for arrival FBO
 - File Departure eAPIS with US CBP
 - >1 hour **before ETD**
 - File VFR or IFR flight plan
 - Must be active and squawking!
 - Fly to Canada and taxi to your FBO
 - **Arrival window of +/- 30 minutes**
 - Wait in aircraft, Call CBSA to report
 - Probably won't meet a CBSA officer!







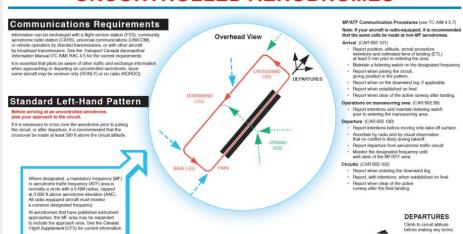








VFR CIRCUIT PROCEDURES AT **UNCONTROLLED AERODROMES**



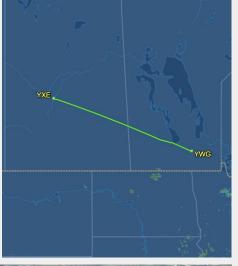
VFR in Canada



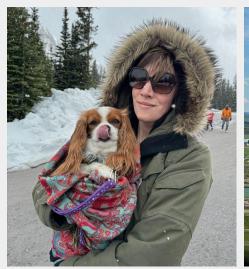
- VFR Flight Plans are *mandatory*
 - Can file online https://plan.navcanada.ca/
 - Activate via ATC (if avail.) or usually FSS
 - Plans open automatically at ETD!
- Pattern Entries are Regulatory
- Mandatory Frequencies
 - Mandatory to speak to FSS at some uncontrolled fields (some via RCO)
 - Required reporting points inbound and outbound
- "Switch to Enroute"
 - ATC services are *sparse* in Canada
 - >30nm from a major airport = \infty
 - Self-report enroute on "CTAF" of 126.7
- Class C = USA Class B (sort of)
 - Need permission to enter, you won't get it
- No ADS-B WX or SXM Radar 😞
 - SXM *does* have METARs delayed 30m
 - Use Sat Phone for Inflight WX 🛰







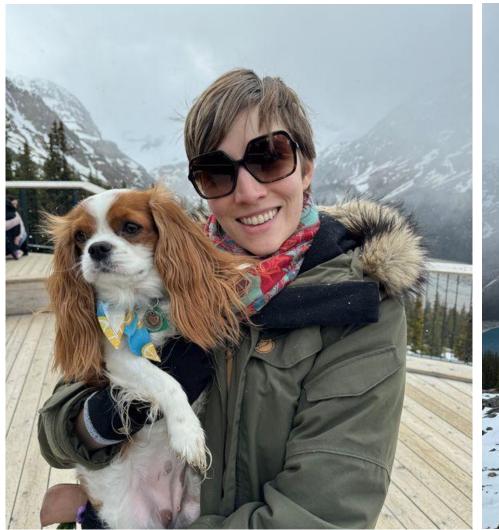


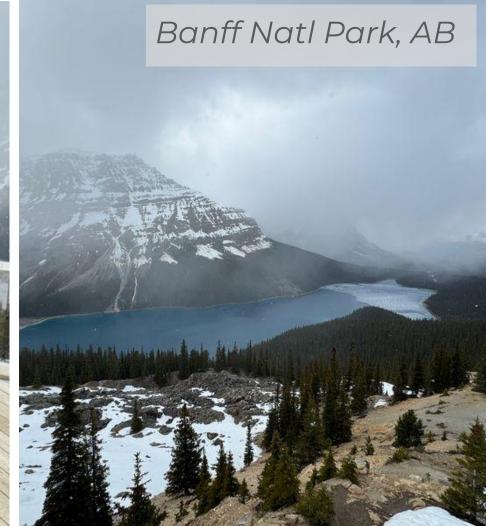








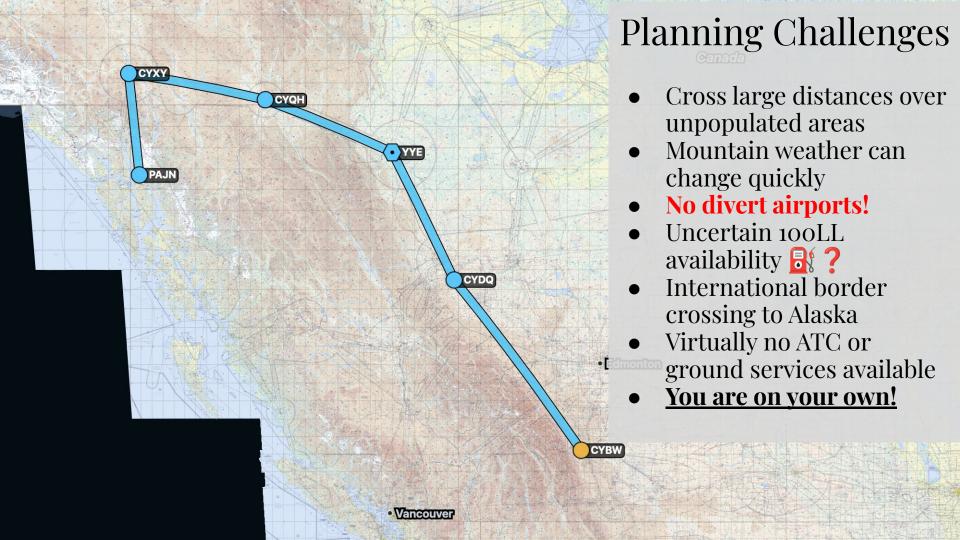




The Alcan Highway and the Canadian Rockies (Part 1)

Banff, AB to Juneau, AK 1,060 nm





Flying On Your Own

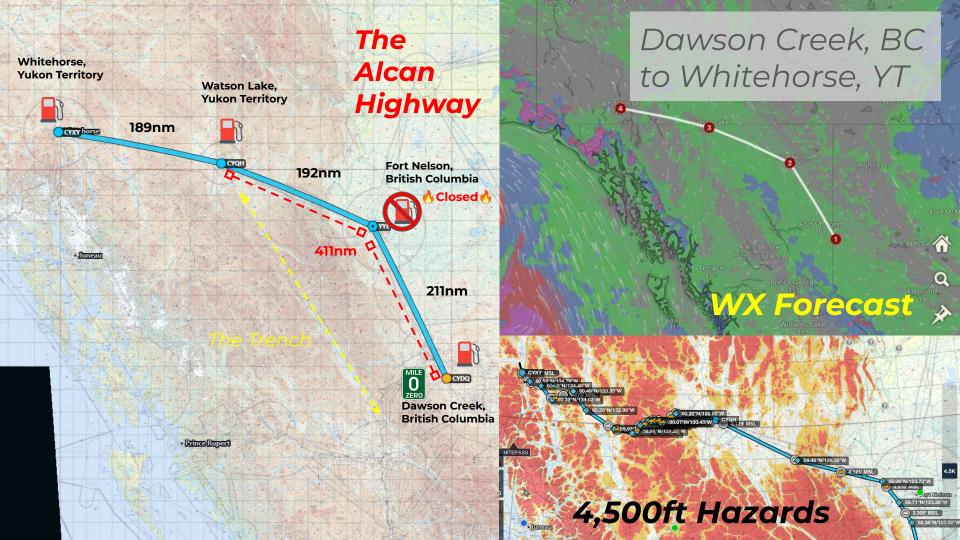
- No Weather Reporting
 - There is a ~800nm gap in NEXRAD, only a handful of METARs with hundreds of miles between
 - No WX Cameras over much of the route
 - Rely on forecasts weather models (Windy) and occasionally PIREPs
 - Mountains make weather highly localized and unpredictable!
- No ATC / FSS / Services / MX
 - Out of ATC VHF range for 90% of the Alcan crossing
 - o Can relay with other pilots on 126.7
 - Call ahead to confirm 100LL availability!
- Diversion may be 250nm the other way!
 - Can be past the "point of no return"
- Have a plan for the worst! (IIMC)
 - Easy to become trapped!
 - Land on the road in a dire emergency
 - Study topography, program safe route into GPS
 - ForeFlight Hazard Advisor!
 - Always know minimum safe altitude!

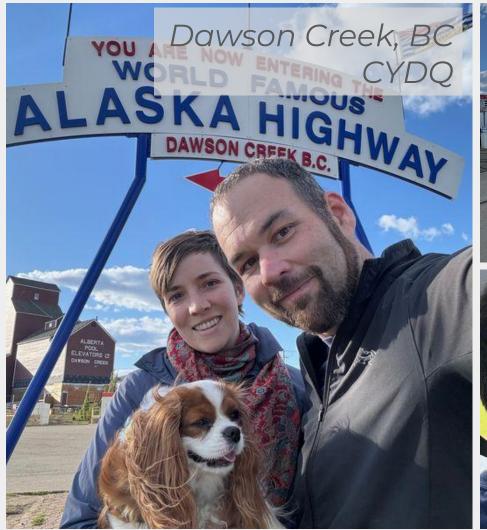


















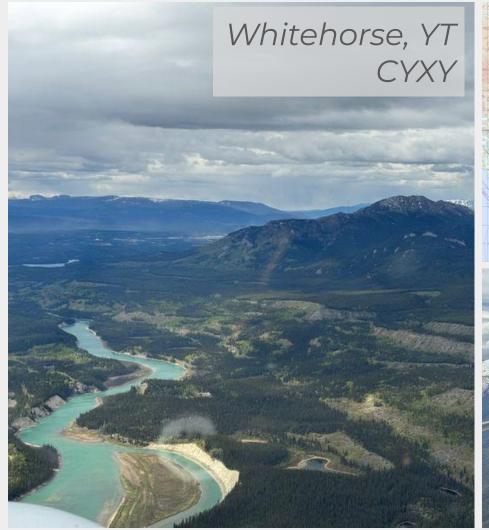
























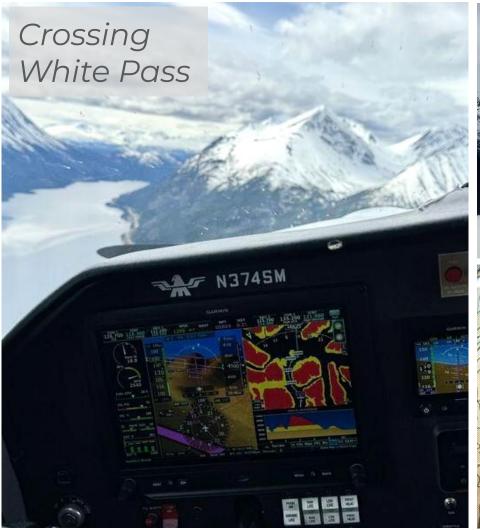
Canada 🖐 to Alaska 🤝



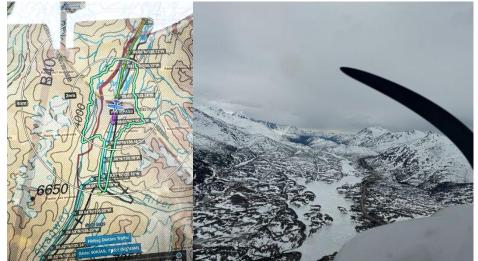
- Need:
 - Same as USA to Canada plus...
 - Health certificate for our dog (Alaska only)
- A not-as-easy process:
 - Only 5 Realistic Airports of Entry from Alcan
 - Juneau, Northway (PPR, very ltd. hours, no fuel), Skagway (PPR, very ltd. hours), Fairbanks (far), Anchorage (very far)
 - File Arrival eAPIS with US CBP
 - >1 hour **before ETD**
 - Call US CBP Port of Entry and get landing permission!
 - **Land** +30/-0 minutes from ETA
 - File VFR or IFR flight plan
 - DO NOT need to talk to ATC if VFR
 - **Squawk 1200!** (when N of 54th parallel)
 - See FDC NOTAM 3/2768
 - Fly to USA and taxi to CBP Box
 - Wait in aircraft, will be met by US CBP officer
 - Expect inspection of documents!













The Alaskan Coast and Interior

Juneau, AK to Tok Junction, AK 906 nm



Planning Challenges

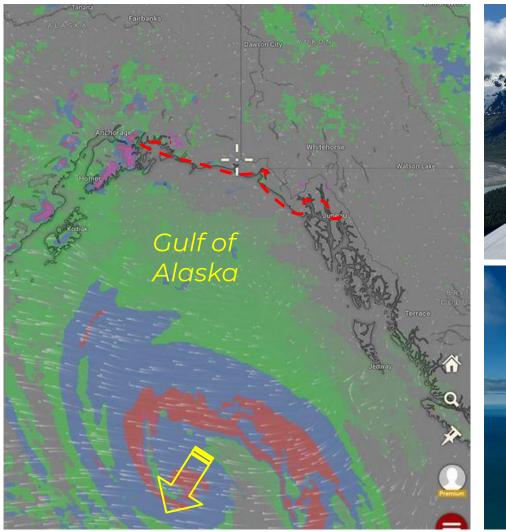
- Cross large distances over unpopulated areas
- Coastal and Mountain weather can change quickly
 - o Very limited TAF/METARs
- Sparse/Uncertain 100LL availability **?**
- Over icy water for brief periods
- No ATC or ground services
 available *in some areas*
 - But plentiful FSS!









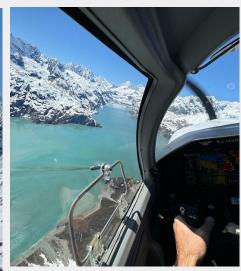














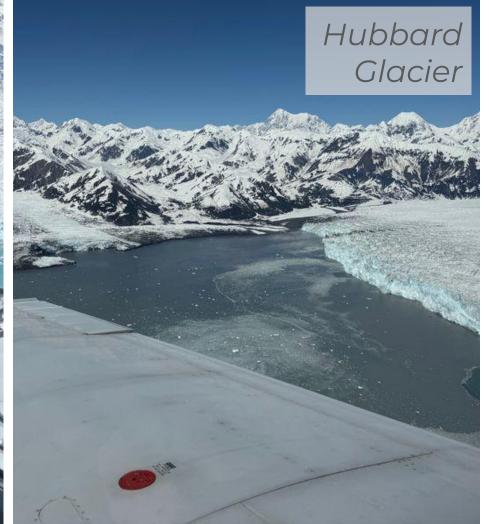


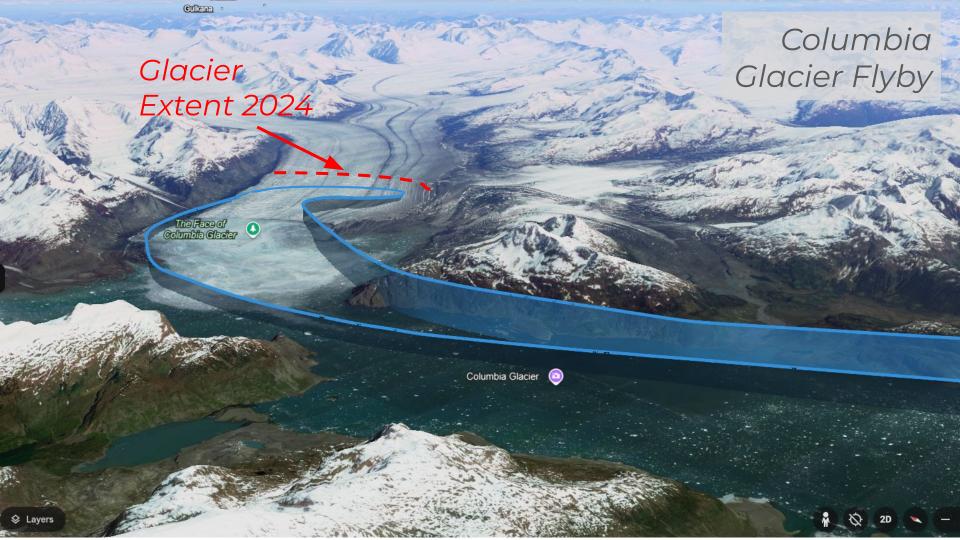




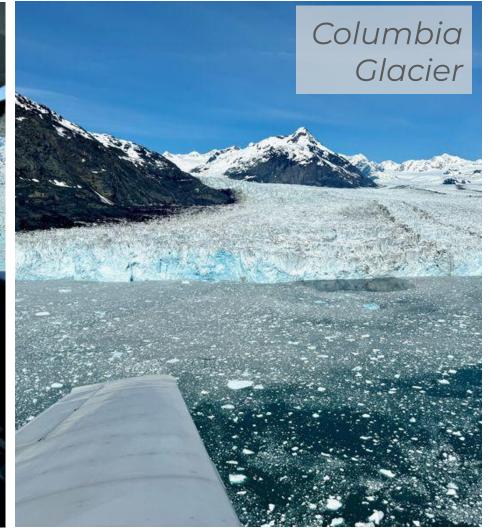










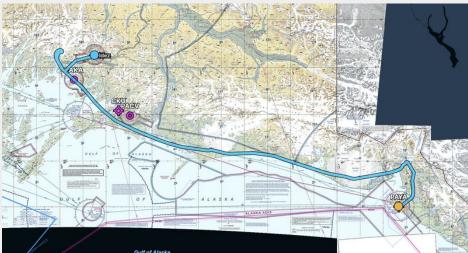




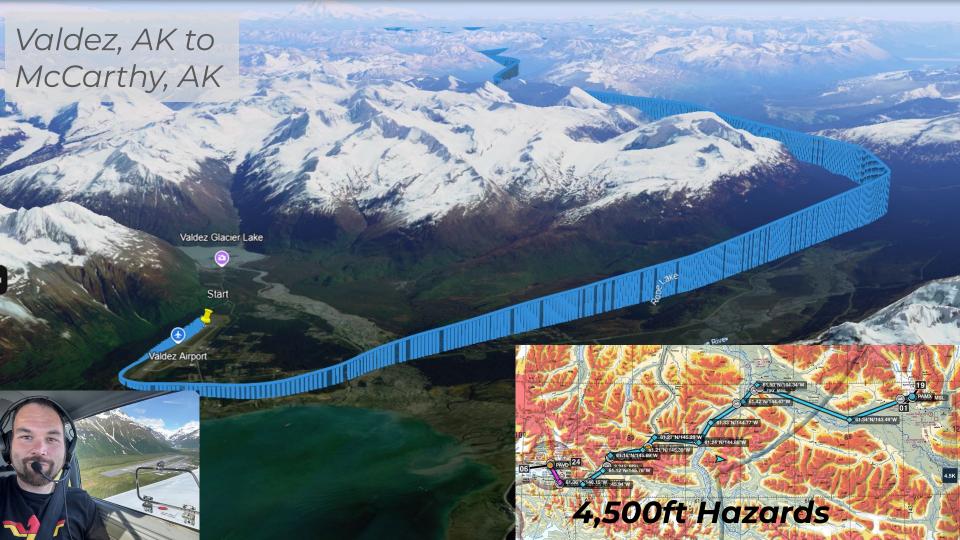


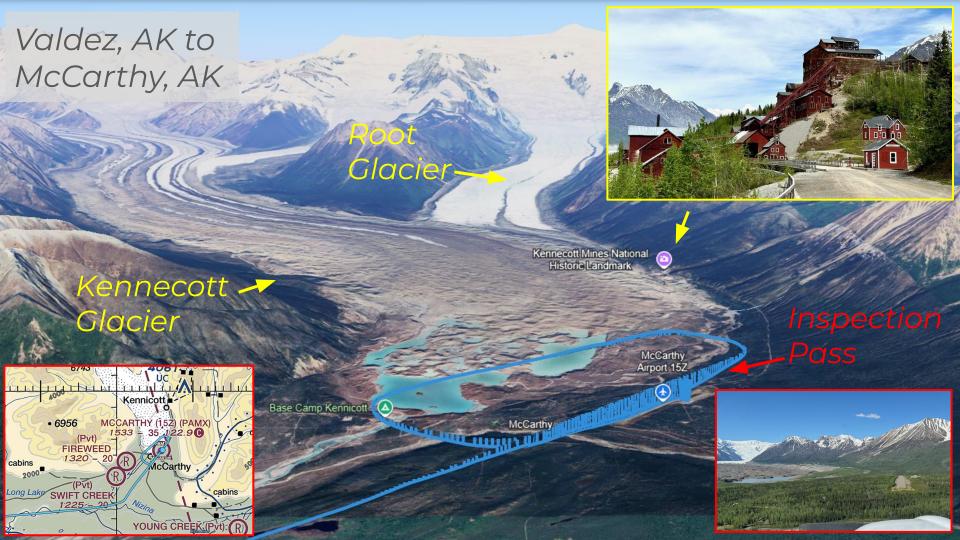










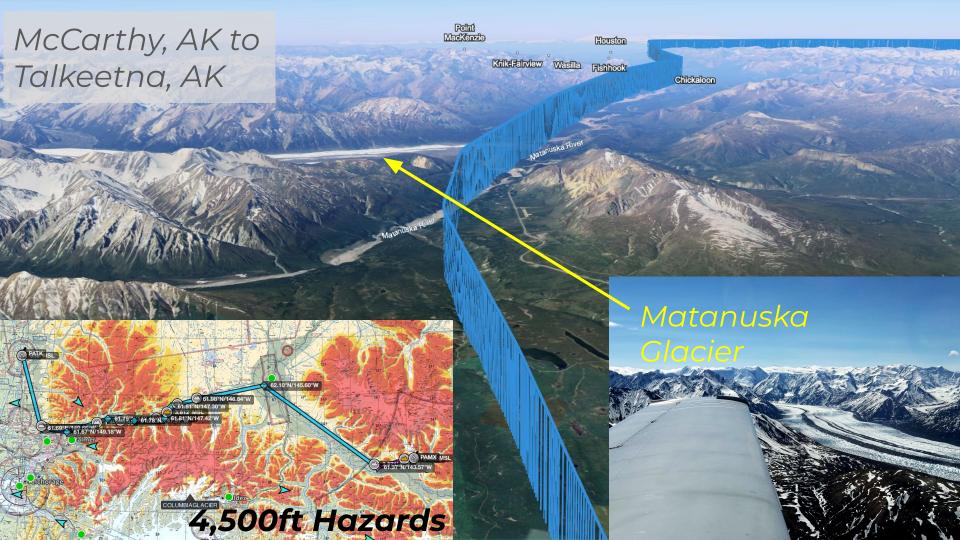


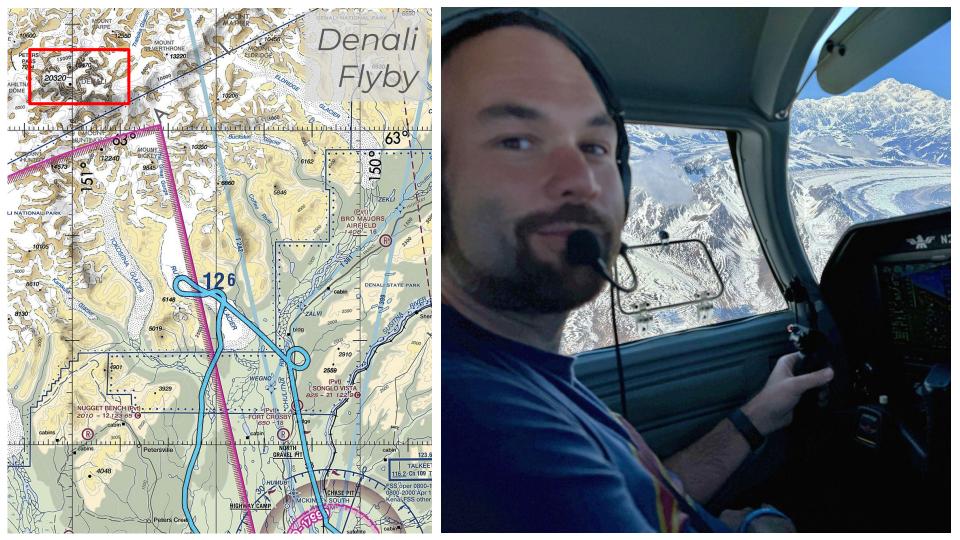




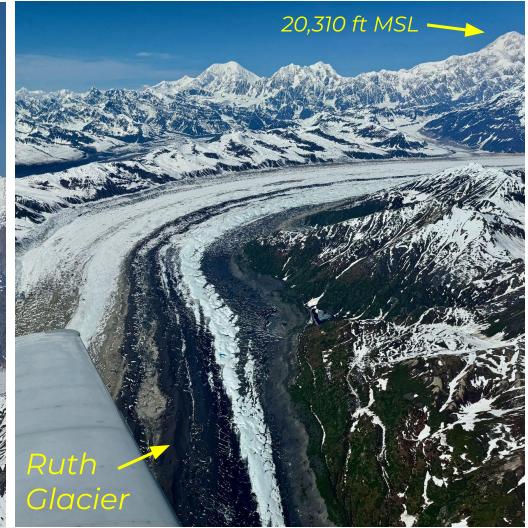






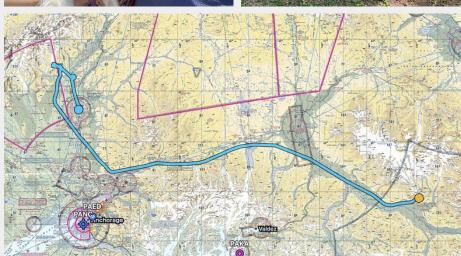






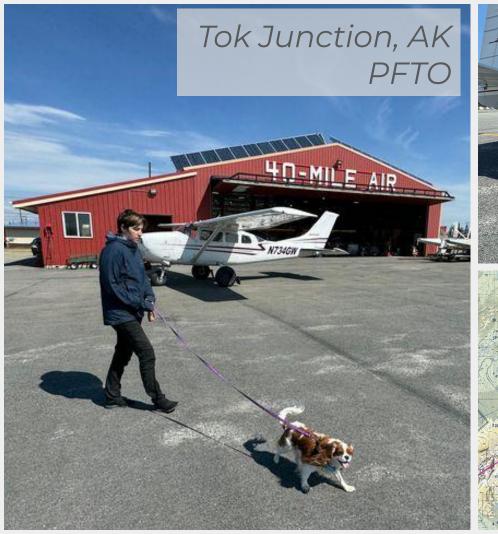


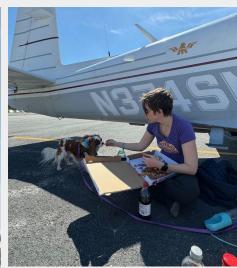




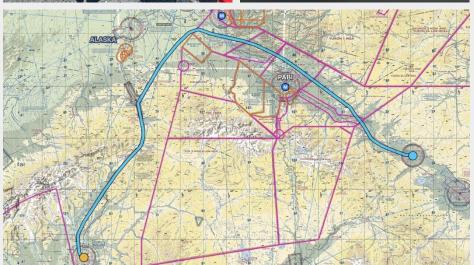












The Alcan Highway and the Canadian Rockies (Part 2)

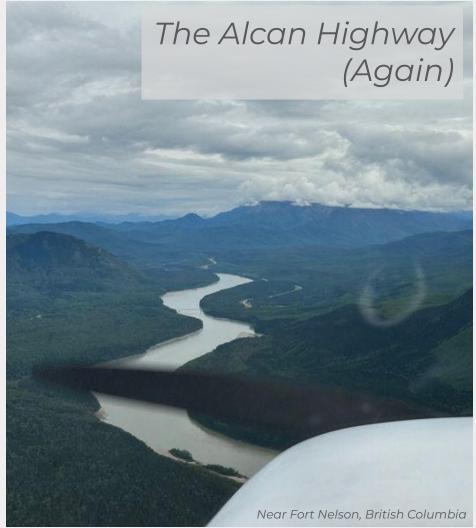
Tok Junction, AK to Vancouver, BC



















Return via the Pacific Northwest and American Southwest

Vancouver, BC to Orlando, FL 2,840 nm





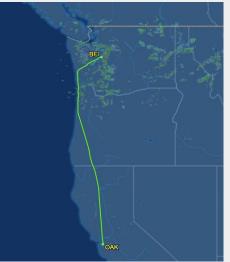




















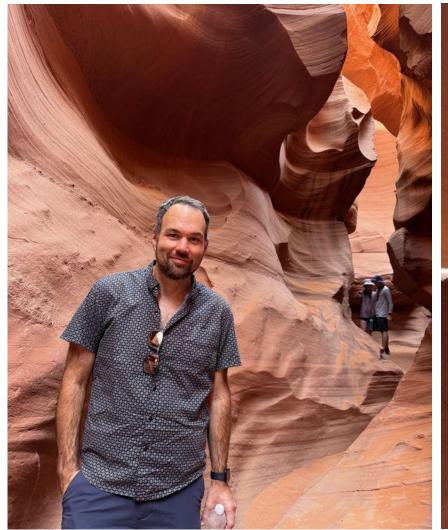


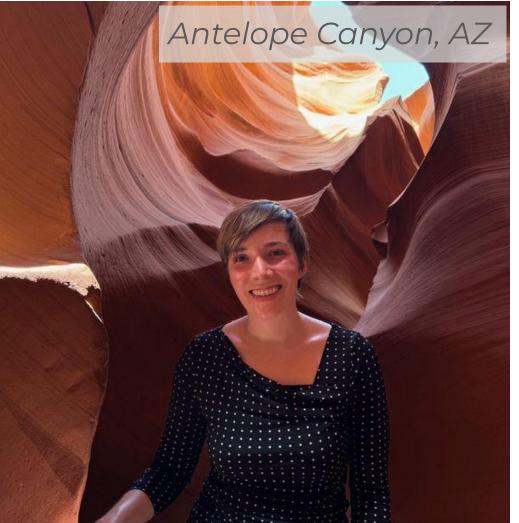












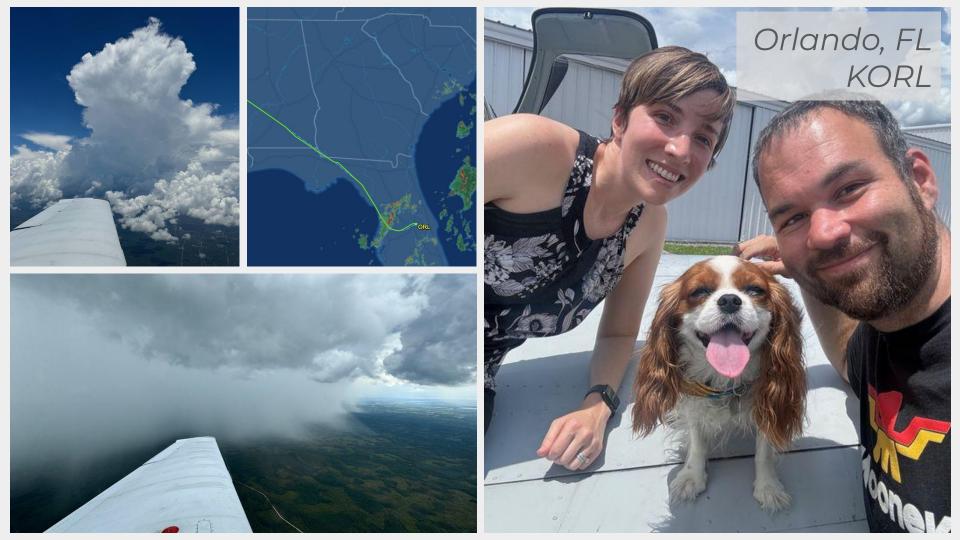




























Trip Stats

- Total Distance: 9,347 nm
- **Direct Distance:** 8,309 nm
- **States Visited:** 9 US States and 5 Canadian Provinces
- Hours Logged: 68.2
- Total Days: 30
- Flying Days: 19
- **Legs:** 26 (20 VFR, 6 IFR)
- **Longest Leg:** Little Rock, AR (KLIT) to Orlando, FL (KORL)
 - 4.7 hrs 669nm (direct) 706nm (actual)
- Longest Day: Page, AZ (KPGA) to Elk City, OK (KELK) to Little Rock, AR (KLIT)
 - o 6.6 hrs 985 nm
- Shortest Leg: Oakland, CA (KOAK) to Rancho Murieta, CA (KRIU)
 - o o.8 hrs 70nm (direct) 81nm (actual)
- Approaches Flown: 1 ILS (KBFI)
- **Unpaved Runways:** 1 (McCarthy, AK PAMX)
- **Fuel Purchased:** 696 gal \$5,218.48
 - \$7.50/gal avg, highest \$12.18/gal at PAJN
- FBO Services / Overnights / Fees: \$475.96
- Oil Quarts Added: 4 (plus 1 entire DIY oil change at KRIU)





Helpful Resources

- Ted Waltman's wonderful fly2ak.com
- WX Models Windy.com
- FAA WX Cameras https://weathercams.faa.gov
- NAVCANADA Flight Plans https://plan.navcanada.ca/
- Fire and Smoke Forecast <u>https://firesmoke.ca/forecas</u> <u>ts/current/</u>
- FAA Alaska Chart Supplement

Questions?

Contact Me: binnsflightservices.com

