Spokane Aviation Outreach Program

STEVEN VAN HORN

METEOROLOGIST

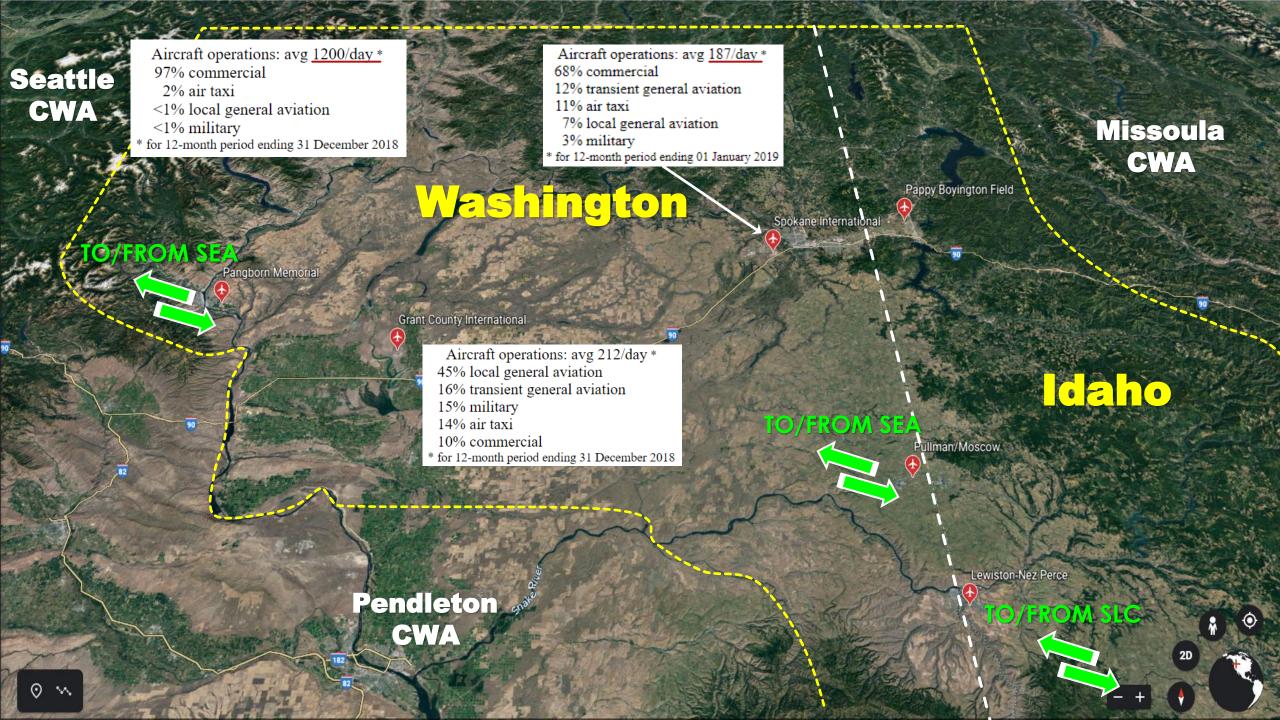
STEVEN.VANHORN@NOAA.GOV

Outline

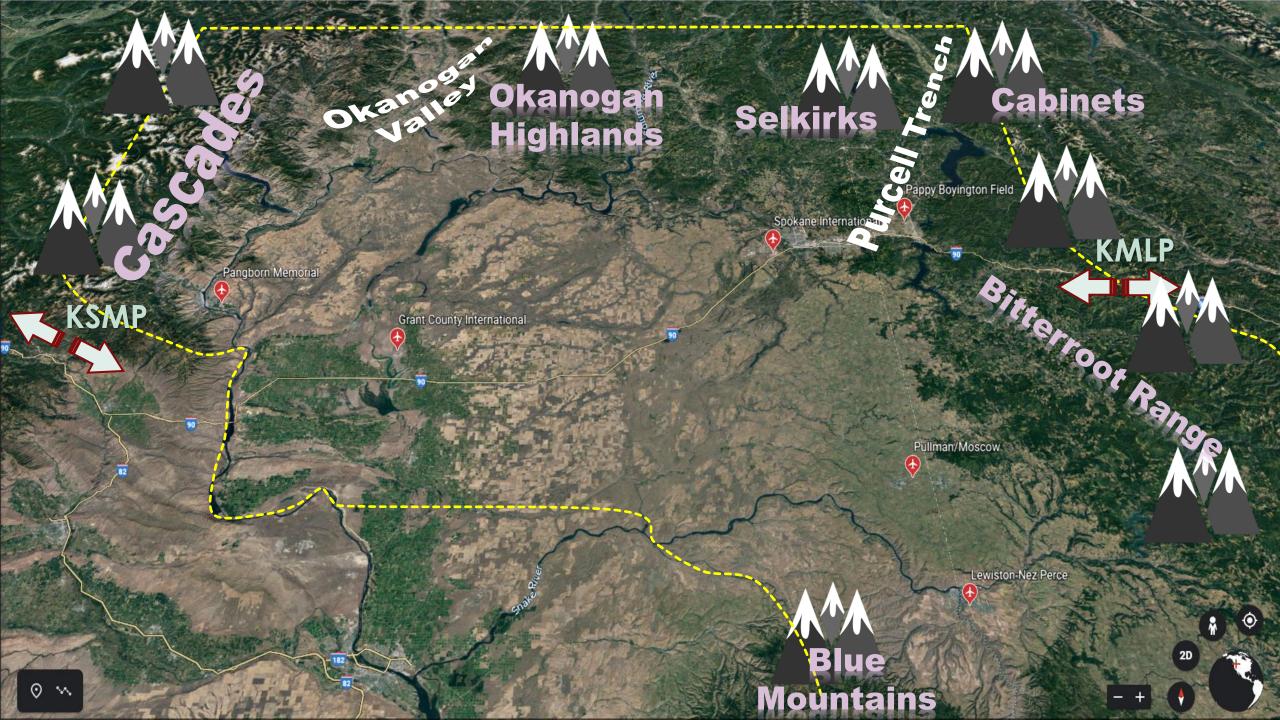
- Spokane County Warning Area (CWA)
 - ▶ Who are our aviation customers?
 - Weather Hazards
- ▶ Vision for the outreach program

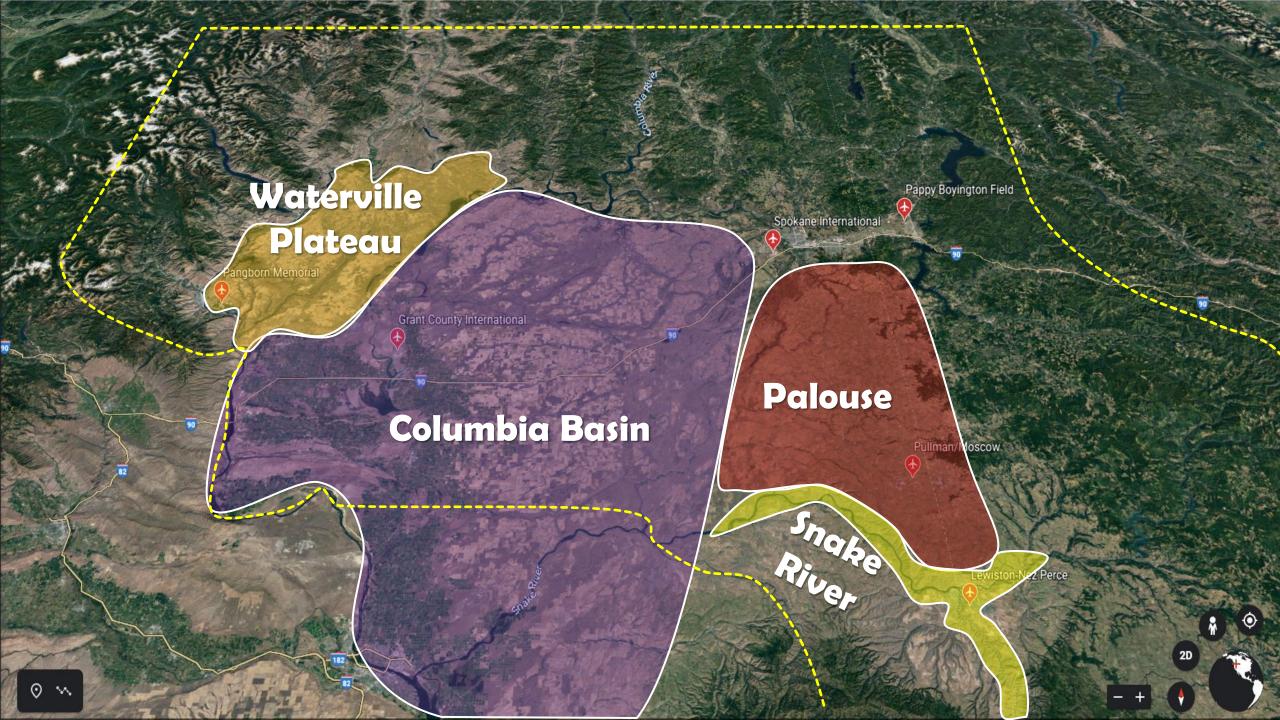
Spokane CWA

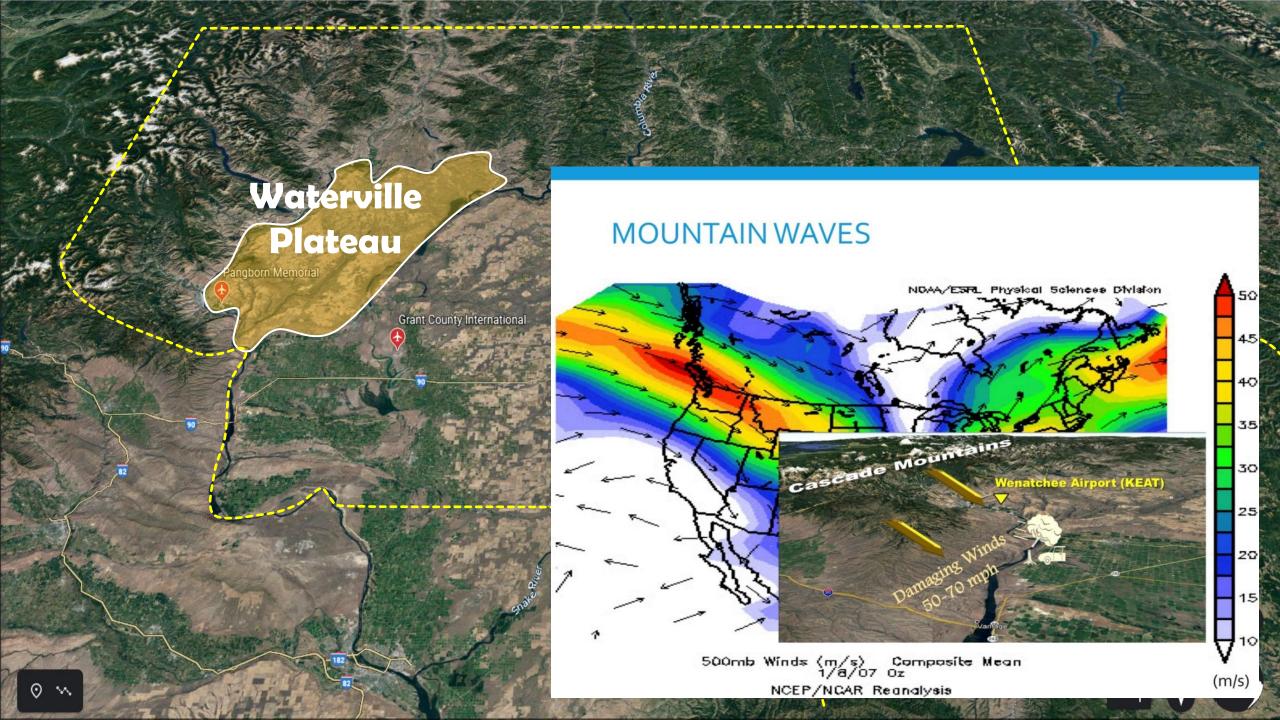




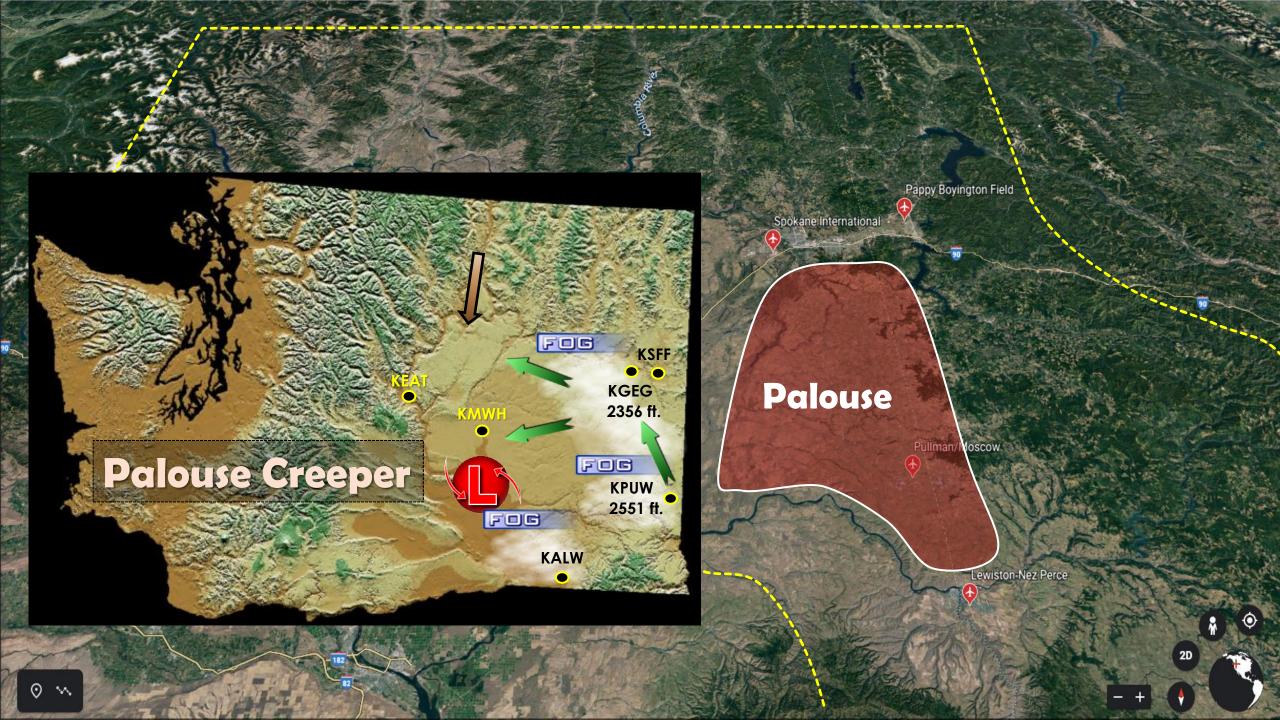






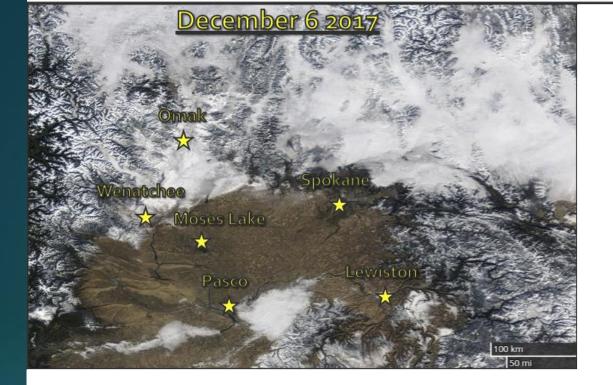




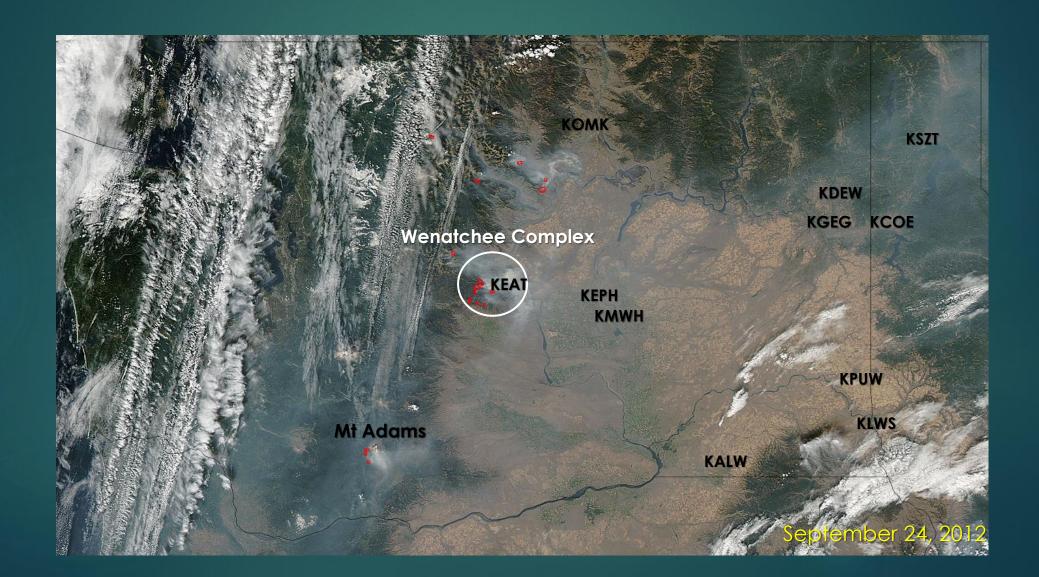


Most Common Hazards

- Winter Season: fog and low stratus not uncommon for long stretches of IFR or even LIFR conditions
- Summer Season: fire weather where are the large fires/will smoke impact terminals?



Wildfires



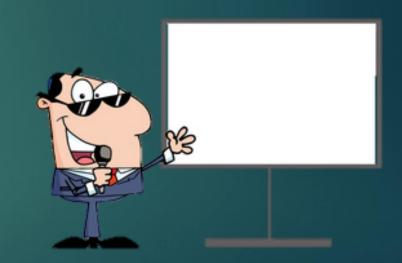
Next Steps: Meteorology to Outreach

Communicating our products/hazards

- Getting out and providing talks
- 2) Going to events and setting up a booth

Being proactive in our approach

- ► Contact pilot groups
- Contact the airport managers
- ▶ See where that leads...



Associations/Airports Contacted

















- Power points ready to go
- Covering a range of topics

Fog/Stratus Convection

NWS

Products

Mountain Waves

Aviation Booths



- Cycle through events every 1-3 years
- Include hazards specific to that area

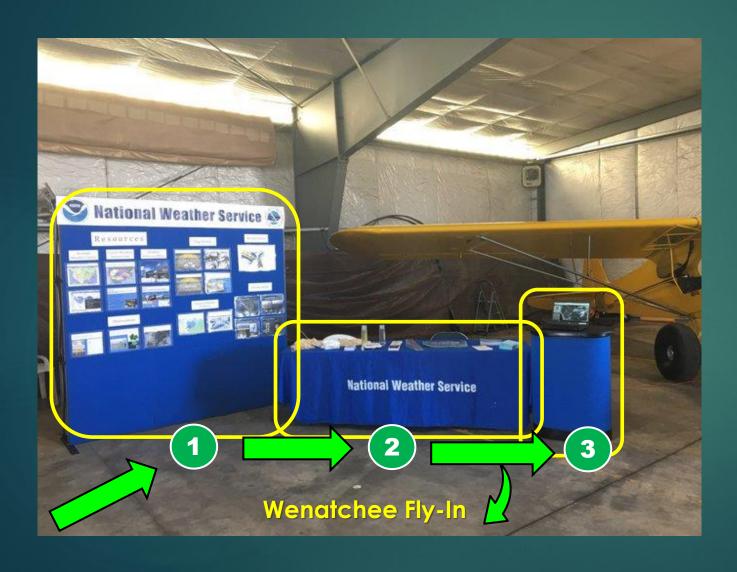


2018 CHAPTERS OF THE

WASHINGTON PILOTS ASSOCIATION



Aviation Booth Example



Three Stations

Station 1 – Big Board (eye candy)

- ✓ NWS Resources
- ✓ Hazardous Weather Information
- ✓ Pictures

Station 2 – Tangible Material/Literature

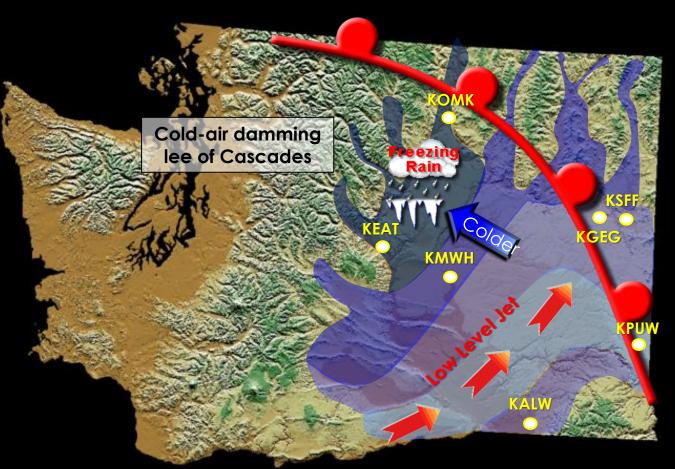
- ✓ Balloon/Radiosonde, Family Activities
- ✓ Pamphlets (Roles of NWS, Local Office

Station 3 – Web Based Resources

- ✓ AWC/CWSU/WFO pages
- ✓ Digital Aviation Services (DAS)
- ✓ Observations
- ✓ Model Data
- ✓ Soundings

Freezing Precipitation Pattern

Typically after an Arctic Intrusion



Key Takeaways

Warm frontal precipitation overruns much colder air at the surface

Best set up for widespread <u>freezing precipitation</u> is after modified Arctic air settles in over the Inland Northwest

Low level jet will funnel up through the Columbia Gorge, across the Columbia Basin

Valleys in the lee of the Cascades are the last to mix out and modify with subfreezing temperatures at the surface

Lenticula clouds 1

Car

Local Aviation Pamphlet



Spokane

Aviation Weather Services



Weather Ready Nation

http://aviationweather.gov/gfa

National Wather Services provide web based services

METARS, Automated
Observations and Terminal
Aerodrome Forecasts (TAF)

Regional Radar Images
across the Contiguous United
States.

Higher Resolution Imagery
from GOES-R Series Satellite

Latest AIRMET, SIGMET, and

Center Weather Advisories

⇒ Graphical Forecasts for Aviation (GFA tool) for Self-Weather Briefs

AVIATION WEATHER CENTER

NWS Spokane Local Support

The National Weather Service (NNS) Weather Forecast Office (NPO) in Spokane, Washington has a two-fold mission, First, to provide warnings of significant weather, water and climate events for the protection of life and properly ascond, to provide the most up-to-date and accurate forecasts for the people and industry of the Inland Northwest.



Aviation Program. WFO Spokane has ful responsibility for several Terminal Aerodrome Porecasts (TAPs). Other aviation duties include completion of reports for aircraft accidents in our CWA, seating forecasts and providing general information to various aviation interests including private and commercial aircraft, saliphane, hang glider and hotair balloon plots.

TAF

KLWS 180537Z 1806/1906 24005KT 59M 5N BR CVC006 TEMPO 1806/1809 25M 5N BKND06 CVC024 FM180900 26005KT P65M VC5H BKND25 CVC050



US Dags of Commerce National Oceanic and Atmospheric Administration National Weather Service

Spokane, WA 2601 N Rambo Rd Spokane, WA 99224 509-244-0110 TAFS ASOSIAWOS

Local Support

Glossary

AWC

In Conclusion...

- ▶ Here is Spokane, we are taking a proactive approach to aviation outreach
- Plenty of opportunities have been found by reaching out to pilot associations and airport managers
 - ▶ These discussions lead to a better understanding of our aviation customers
- Creating a resource of discussion topics and strategies for hosting a booth at events will more likely get other forecasters involved

Thank You!