

National Weather Service

Alaska Aviation Weather Unit Anchorage Center Weather Service Unit

Virtual Tour Welcome!!

Carrie Haisley
Anchorage Center Weather Service Unit
Meteorologist-in-Charge



Anchorage Forecast Facility





National Weather Service Alaska Mission Statement

Mission:

NWS Alaska Region provides integrated environmental analysis and forecasts, leveraging a broad spectrum of partnerships that enable communities and stakeholders to make the best possible decisions.

Vision:

Alaska Region communities and stakeholders are ready, responsive, and resilient to environmental impacts: protecting lives and property, enhancing commerce, and safeguarding the "Last Frontier".



Service Areas

- Aviation
- Climate
- Fire Weather

- Marine Weather & Sea Ice
- Public Forecasts and Warnings
- Rivers/Hydrology

- Space Weather
- Tsunami
- Volcanic Ash





National Weather Service Alaska Region Facilities

In Anchorage:

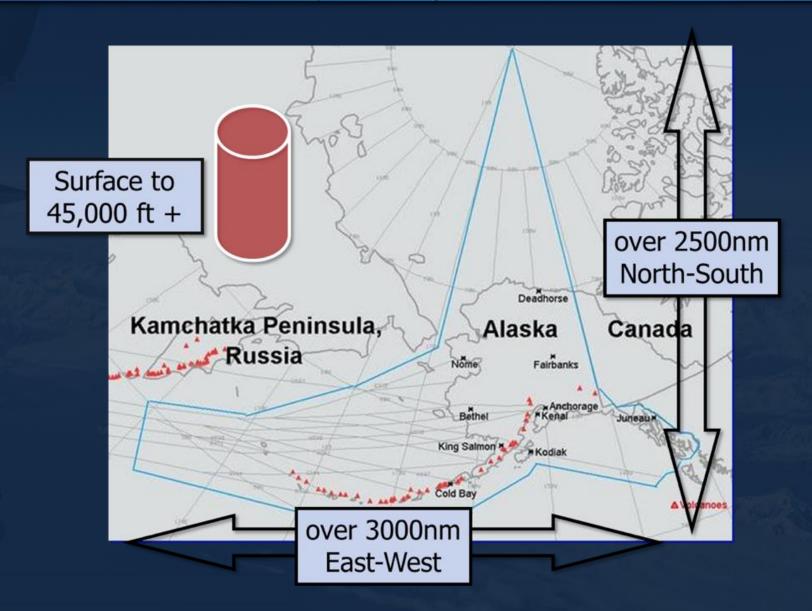
- Alaska Aviation Weather Unit
- Anchorage Volcanic Ash Advisory Center
- Anchorage Center Weather Service Unit
- Weather Forecast Office
- River Forecast Center
- Weather Forecast Offices
- Weather Service Offices
- National Tsunami Warning Center





Alaska Aviation Weather Unit (AAWU)

- Forecasts for over 2.4 million sq. miles of airspace
 - Graphics, Area Forecasts, AIRMETs, and SIGMETs
 - Flight Category, Icing, Turbulence, Convection, Surface Analyses, and Volcanic Ash
- Need for a strong internal collaborative forecast process
- Close partnerships with FAA, industry, and formal associations to help guide services

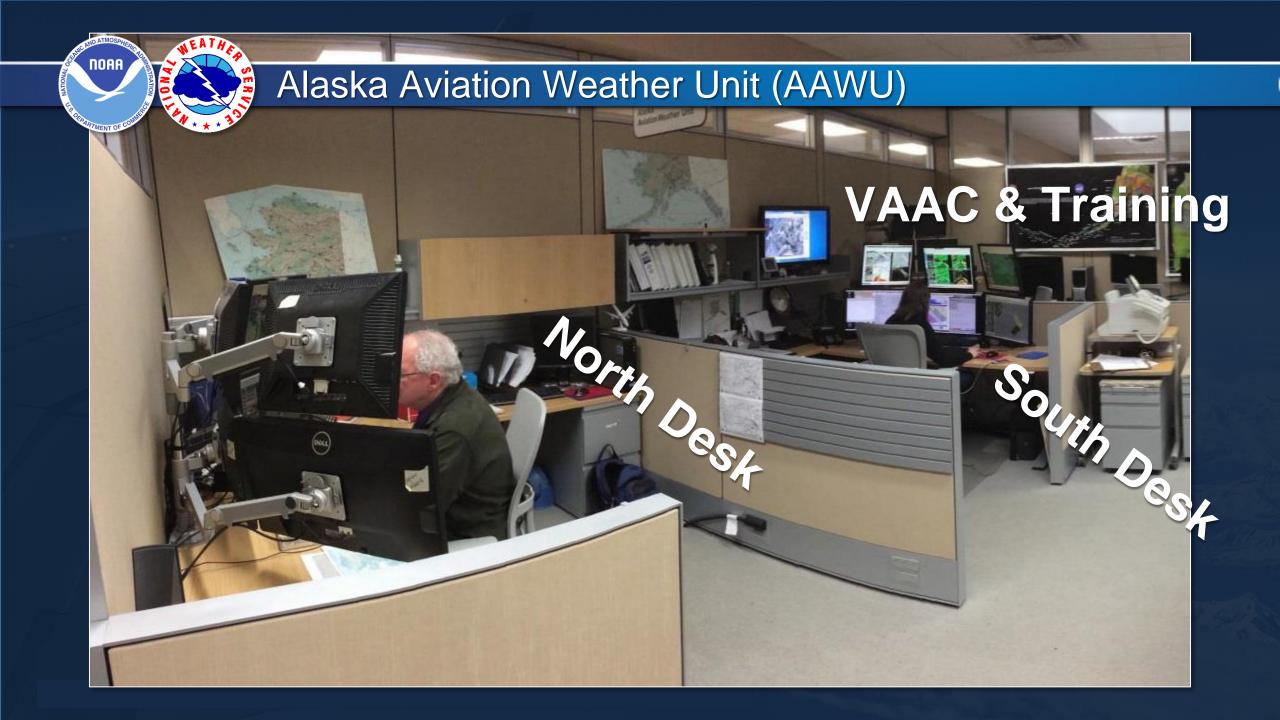




Alaska Aviation Weather Unit (AAWU)



- Forecast Staff: (2 always on duty)
 - 5 Lead Forecasters
 - 6 Journey Forecasters
- Support Staff
 - 1 Meteorologist-in-Charge
 - 1 Science & Operations
 Officer
 - 1 IT System Administrator
 - 1 Administrative Support Assistant





Alaska Aviation Weather Unit (AAWU)

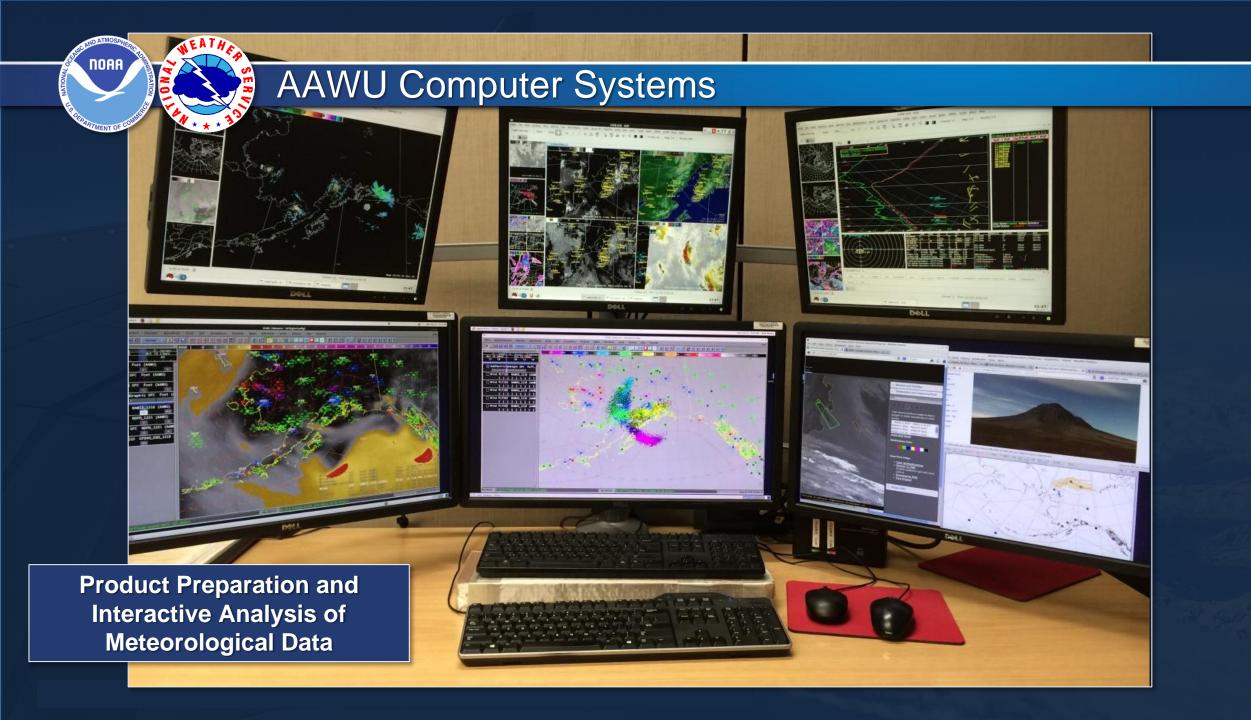
North Desk:

- 12 Area Forecasts
- Freezing Levels
- Icing
- Convection
- Flight Category

South Desk:

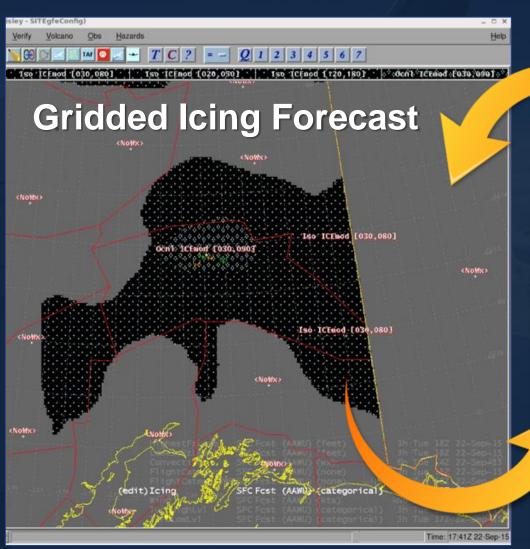
- 13 Area Forecasts
- Surface wind
- Low-level Turbulence
- High-level Turbulence
- Surface Analysis

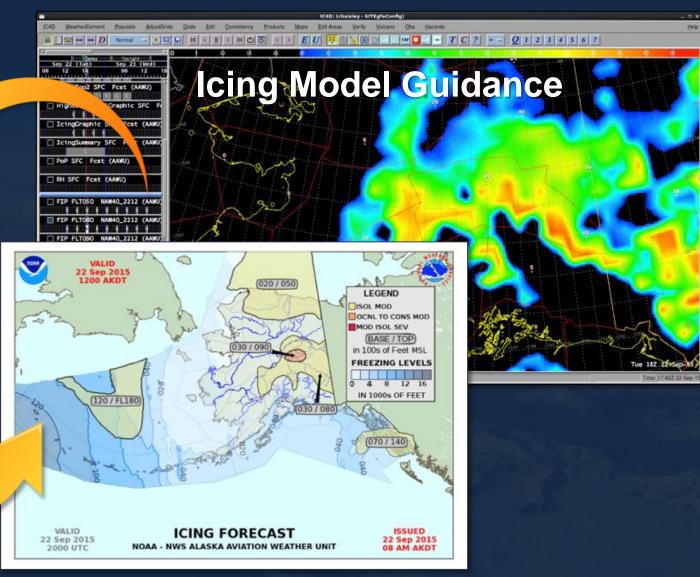






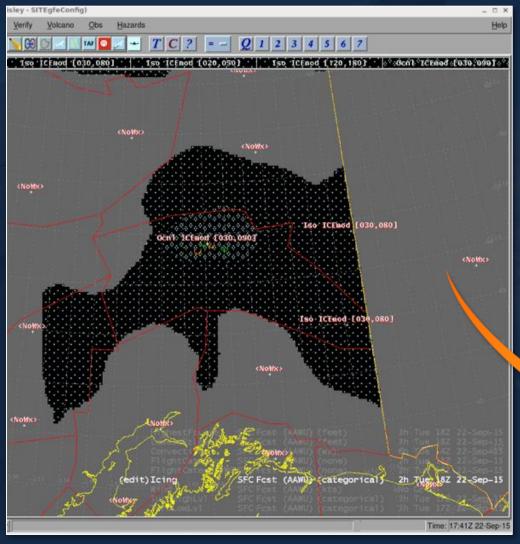
AAWU Forecast Process



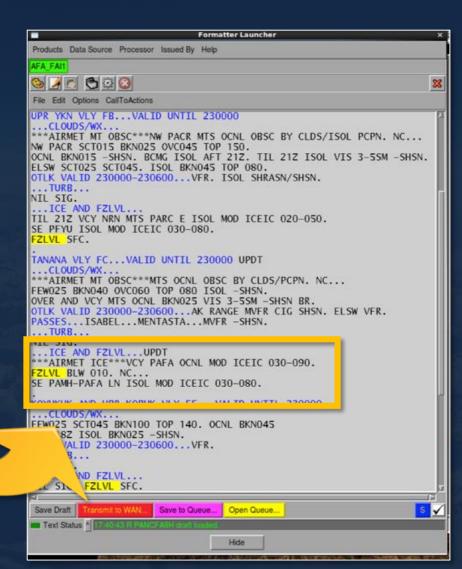




AAWU Forecast Process



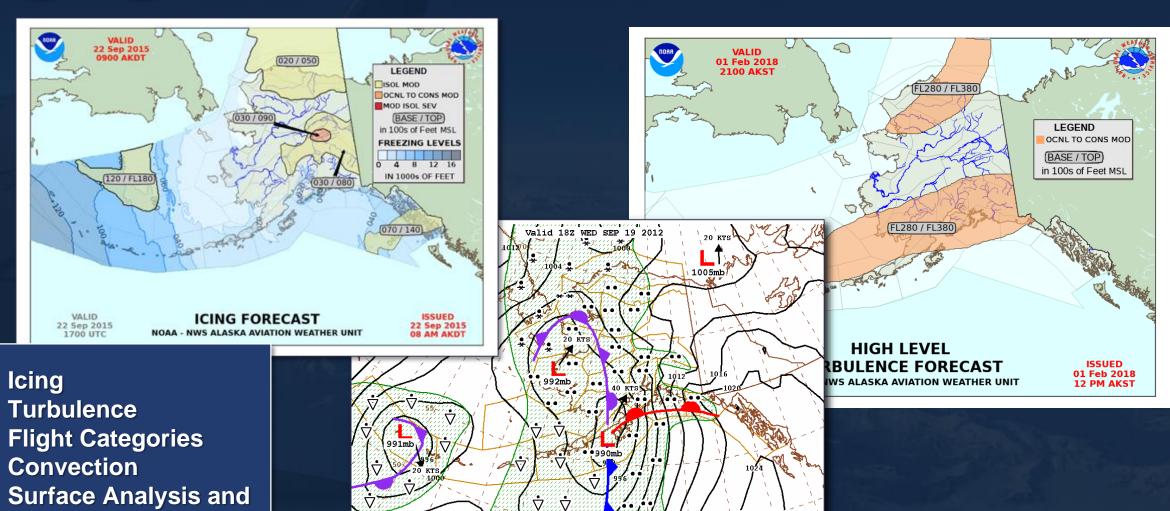
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Forecasts

AAWU Forecast Graphics



Alaska Aviation Weather Unit

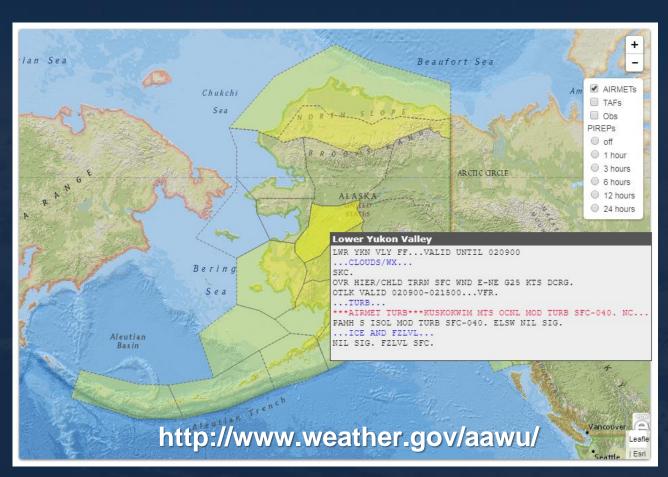


AAWU Area Forecasts

- Issued three times per day and are valid for 12 hours
 - 4:15am, 12:15pm, and 8:15 pm

Contains these elements:

- Synopsis
- Clouds and weather
- Wind (if gusts are 25 kts or greater)
- Turbulence forecast
- Icing forecast
- Freezing level
- Pass forecasts (if applicable)
- Outlook for hours 12 to 18





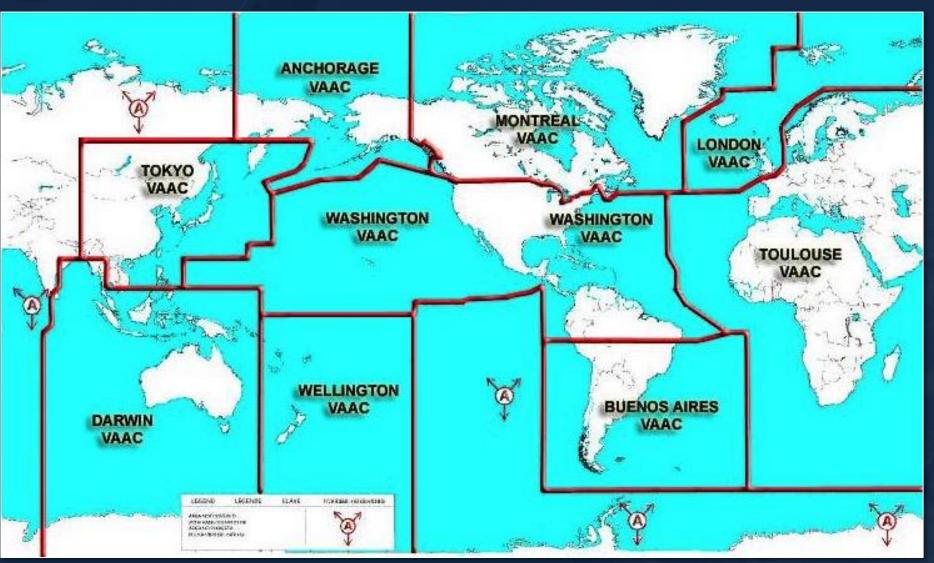
AAWU AIRMETs and SIGMETs

- AIRMET (*3000 sq miles or greater) or occasional or prevailing conditions:
- Instrument Flight Rule conditions (IFR)
- Mountain Obscuration
- Moderate Icing
 - May describe isolated severe
- Moderate Turbulence
 - May describe isolated severe
- Low Level Wind Shear (LLWS)
 - Shear below 2000 ft exceeding 10 kts/100 feet
- Strong Surface Winds
 - Sustained 30kts or greater

- SIGMET (*3000 sq miles or greater) for occasional or prevailing conditions:
- Severe Icing
- Severe Turbulence
- Convection
 - Scattered coverage of storms
 - Storms obscured by stratus
 - Isolated severe storms (1" hail and/or winds > 58 mph)
- Volcanic Ash
- * Or in high traffic areas under 3000 sq miles with significant impacts expected.



Anchorage Volcanic Ash Advisory Center (VAAC)





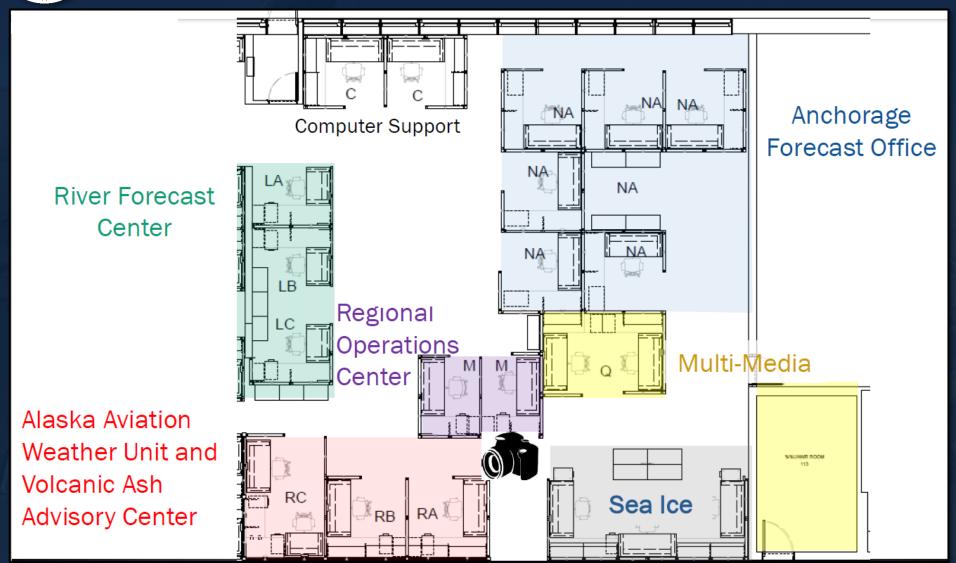
Anchorage Volcanic Ash Advisory Center (VAAC)

- Detect and track volcanic ash for >50 active volcanoes in Alaska
- Develop interagency plans for responding to volcanic ash fall and related hazards
- Leading role in international coordination, planning, and policy issues





Anchorage Forecast Facility





Weather Forecast Offices (WFOs)







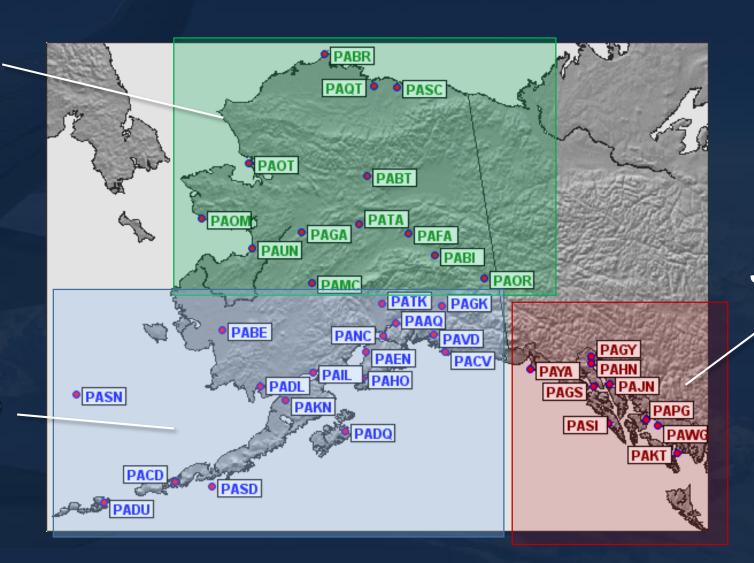


Anchorage Only: Sea Ice & TV



Weather Forecast Offices (WFOs)

Fairbanks WFO



Juneau WFO

Anchorage WFO



Anchorage Center Weather Service Unit (CWSU)





Anchorage Center Weather Service Unit (CWSU)

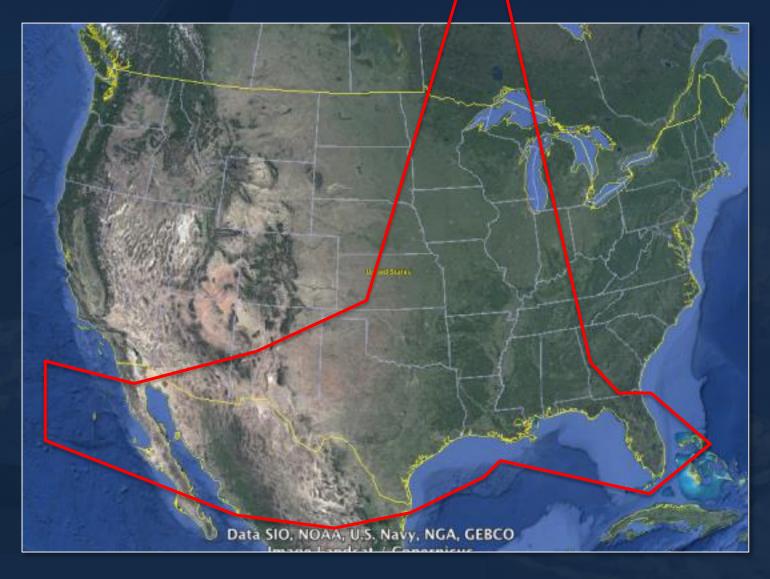


Collaborate with other NWS offices and solicit pilot reports.

Aviation Administration supported facilities.



CWSU Area of Responsibility





CWSU Operations Area





CWSU Support to FAA Facilities

Intended for use by air traffic control

- Daily Stand-up Briefings
 - 7:30am and 3:00pm
 - Graphics made in Power Point
- Recorded Video Briefings for Controllers
 - 7am, 1pm, and 9pm
- Focus on weather that could impact air traffic:
 - SIGMETs/CWAs/MISs
 - Volcano Information
 - Icing
 - Turbulence/LLWS
 - Flight-level Winds
 - Convection
 - Required PIREPs
 - Flight Category for 10 Hubs



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OME:	VFR	-	2	-	ANC:	VFR	-		-
BET:	VFR	<u> </u>	<u></u>	-	ENA:	VFR	-	-	-
AKN:	VFR		-	G25 KTS	JNU:	VFR	-	-	-

tended for use by air traffic control personnel only. All current and forecast information is subject to change



Questions?

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