

Inaugural GCAWS

Gulf Coast Aviation Weather Safety Workshop

Gulf Coast Aviation Weather Safety Workshop (GCAWS)

NATIONAL WEATHER SERVICE

NOAA

When:
Feb. 24-25,
2023
9am-5pm CST

Where:
Alario Center
Rooms 1 & 2
Westwego, LA

**GREAT
COMMUNICATION
ACHIEVES
WORKPLACE
SUCCESS**

COST: FREE!!!

Gulf Coast Aviation Weather Safety Workshop (GCAWS)

SAVE THE DATE!!!

**Feb. 24-25,
2023
9am-5pm CST**

Greater New Orleans Metro Area at the Alario Center Rooms 1 & 2 in Westwego, LA

COLLABORATION INSPIRATION PROGRESS SUCCESS

**REGISTRATION STARTS
SEPT. 1st, 2022
FOR MORE
INFORMATION VISIT
OUR WEBSITE:
www.weather.gov/lix/gcaws
USE QR CODE ->**

QR CODE

The National Weather Service Proudly Introduces Its:

Weather Safety Workshop

"Serving our Aviation Partners through Weather Safety on the ground & in the air!"

"Be safe and fly with confidence; save lives!"

JOIN US FOR THIS FREE WORKSHOP!!!

Gulf Coast Aviation Weather Safety Workshop (GCAWS)

Greater New Orleans Metropolitan Area Alario Center Meeting Rooms 1 & 2 2000 Segnette Blvd. Westwego, LA 70094

Feb. 24th-25th, 2023; 9am-5pm CST

Minimum attendance is 100 people, so be sure to save your spot! Fly clear, share...away from this workshop that is @

ON BEGINS SEPT 1st, 2022

FOR MORE INFORMATION VISIT OUR WEBSITE: www.weather.gov/lix/gcaws

FORWARD TO YOUR ATTENDANCE!!!

QR CODE



SAWS X

APRIL 21-22 2023



NWS HONOLULU &
PACIFIC REGION HQ
INVITE YOU TO:



HPAWS

Hawaii-Pacific Aviation
Weather Safety Workshop

Intermountain West Aviation Weather Safety Workshop

June 10-11, 2022

Desert Research Institute - Reno, NV



*"Respecting the mountains:
protecting pilots"*



SR Aviation Hot Topics

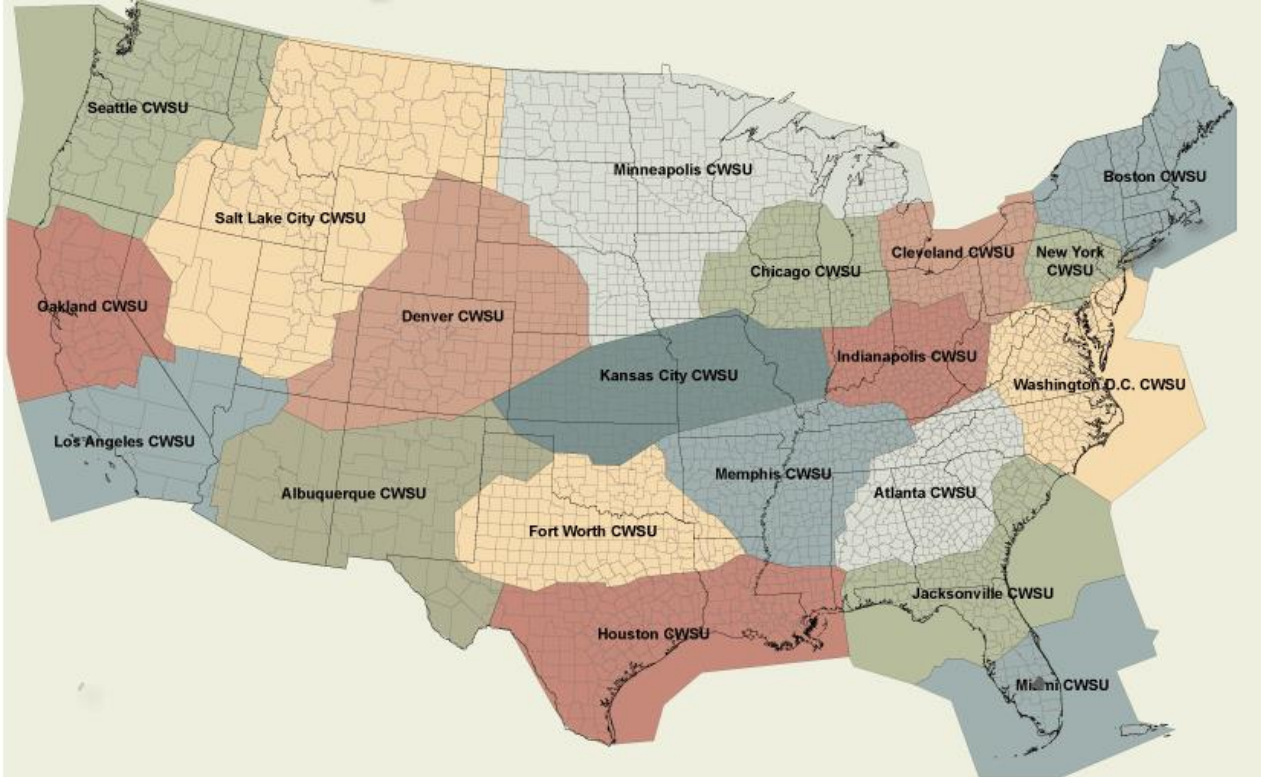
- + Sub-Regional Aviation Workshops
- + CWSUs
- + Starting a New TAF
- + Weather Boxes in the Gulf of Mexico
- + Digital Aviation Services
 - Ceiling, Visibility, Low Level Wind Shear Grids*
- + Quick Look at NWS Aviation Future

CWSU - Center Weather Service Units



21 CWSUs in CONUS & AK

1 National Aviation Met office
at FAA's National Command
Center in Herndon VA



CWSU - Center Weather Service Units

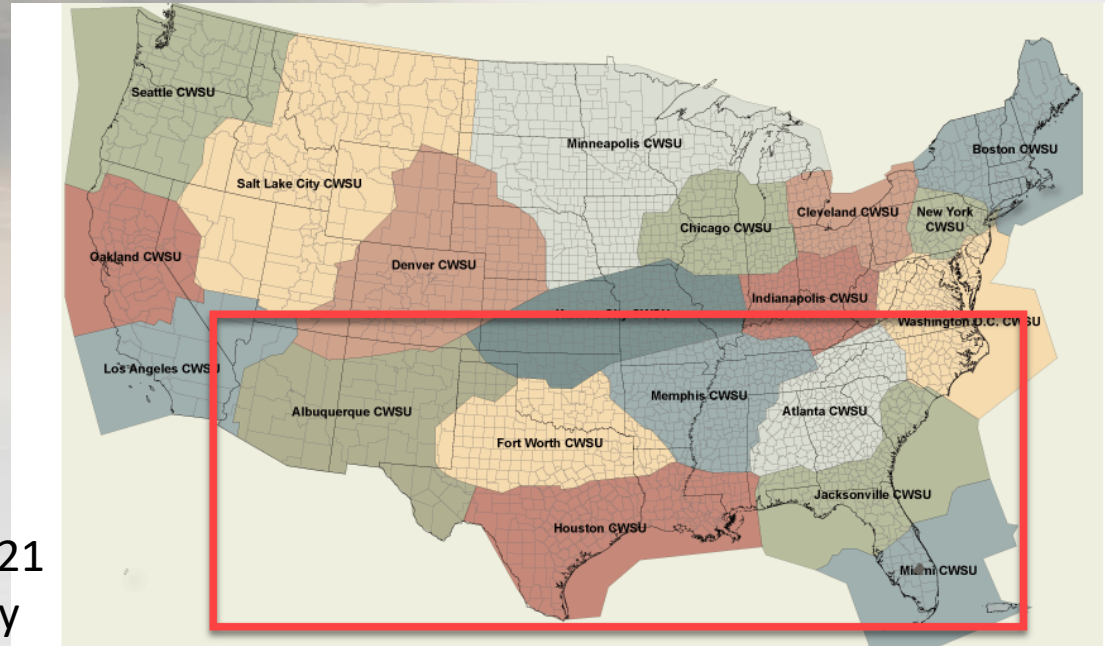
7 ($\frac{1}{3}$) of CWSUs in SR

That

Covers $\frac{1}{3}$ of the NAS
(National Airspace System)

And

One Huge Issue - Staffing
+ 6 of 7 CWSUs under-staffed
+ Significant Impacts since 2021
+ Get well date - months away



CWSU - Center Weather Service Units

By Regio	Calendar Year				2022																										2023																									
	Pay Period	PCS	PCS	Notes	14	15	16	17	18	19	20	21	22	23	24	25	26	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26													
	Site	for FY22	for FY23	Dates are last day of pay period.	Max	07/16	07/30	08/13	08/27	09/10	09/24	10/08	10/22	11/05	11/19	12/03	12/17	12/31	01/14	01/28	02/11	02/25	03/11	03/25	04/08	04/22	05/06	05/20	06/03	06/17	07/01	07/15	07/29	08/12	08/26	09/09	09/23	10/07	10/21	11/04	11/18	12/02	12/16	12/30												
				Assume 10 pay periods per vacancy																																																				
SR	ZAB - Albuquerque	1	1	MIC vacancy - in HRConnect 1 Met retiring 6/2023 or 4/2023 (decision in 12/2022)	4	4	4	4	4	4	4	4	4	4	4	3.5	3.5	3.5	3	3	3	3	3	3	3	3	3	3	2	2	2	3	3	3	3	3	3	3	4	4	4	4	4	4												
SR	ZMA - Miami	0	2	Met vacancy - at YRCL. Another GS-12 accepted TJO for DoD position. Will try to select 2 depending on timing of new departure.	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	2	2	2	2	2	2	3	3	3	3	3	4	4	4	4	4	4	4												
SR	ZFW - Ft. Worth		1	Met vacancy - PFAR at AFS for signature.	4	4	4	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4												
SR	ZHU - Houston		2	Met vacancy - at OHCS. Prior selection lost due to funding snafu.	4	3	3	3	2	2	2	2	2	2	2	2.5	2.5	2.5	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4												
SR	ZJX - Jacksonville			Steve to WFO later next year / Paul Retires late summer '23	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3	3	3	3	3	3	3	3												
SR	ZME - Memphis	2	1	Met vacancy - at OHCS. Prior selection lost due to funding snafu.	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4											
SR	ZTL - Atlanta	1	3	MIC Vacancy - at OHCS. Met to MIL. Met to the EPA 1/15/23. Met vacancy entered into HRConnect. Will try to select 2.	4	3	3	3	3	3	3	3	3	3	3	4	4	2	1	1	1	1	1	1	1	1	1	1	1	2	2	2	4	4	4	4	4	4	4	4	4	4	4	4	4											

Mitigation Remedies to Bridge the Vacancy Gap:

- + WFO & SRH forecasters trained & certified to cover vacant shifts at ZFW, ZHU, ZTL
- + Increased use of backup - oftentimes the latter 4-6 hours of the evening shift
- + SR CWSUs aligning their duties with each other to allow expand backup capability to multiple sites

[illegible]

Mitigation Remedies to Bridge the Vacancy Gap:

- + WFO & SRH forecasters trained & certified to cover vacant shifts at ZFW, ZHU, ZTL
- + Increased use of backup - oftentimes the latter 4-6 hours of the evening shift
- + SR CWSUs aligning their duties with each other to allow expand backup capability to multiple sites

CWSU - Jobs Open Now



GS-13 MIC [Supervisory Meteorologist](#) at CWSUs Atlanta (ZTL) & Albuquerque (ZAB)
Closes March 10, 2023

GS-12 [Meteorologist](#) at CWSUs Atlanta (ZTL), Miami (ZMA), Memphis (ZME), Houston (ZHU)
Closes March 7, 2023

Starting new TAFs

[TAF Start Primer](#) - step by step instructions

3 documents needed

1. Request Letter provided by Airport Manager (*usually*)
2. SCN - Service Change Notification for user awareness
3. RC - Request for Change Notice



Upper Cumberland
REGIONAL AIRPORT
750 Airport Rd. • Sparta, TN 38583
(931) 739-7000

Krissy Hurley
Warning Coordination Meteorologist
National Weather Service
500 Weather Station Road
Old Hickory, TN 37138

January 9, 2023

RE: TAF for SRB

Per your letter dated February 2, 2022 Upper Cumberland Regional Airport has completed the upgrade to our AWOS III to an AWOS III-P with the addition of present weather sensor. We were unable to add lightning detection at this time but intend on pursuing funding for a future upgrade.

We request that Upper Cumberland Regional Airport, KSRB, be added as a TAF site. The current situation of utilizing TAF forecast from Crossville, Smyrna, or BNA with vastly different weather conditions, due to elevation differences and terrain conditions, provides little to no relevance to the local weather conditions at KSRB. As we have discussed previously this addition will help not only this airport but nearby airports along with the cities and counties in this area by improving weather prediction.

Thank you,



Dean Selby, Manager Upper Cumberland Regional Airport

Starting new TAFs

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Note: SCN and RC completed at SRH, reviewed by WFO & submitted to WSH for submission

120 days lead time for first issuance of the new TAF.

NOUS41 KWBC DDHHMM
PNSWSH

Service Change Notice 23-xx
National Weather Service Headquarters Silver Spring MD
xxxxx XM EDT DDD February 10 2023

To: Subscribers
 -NOAA Weather Wire Service
 -Emergency Managers Weather Information Network
 -NOAAPort
 Other NWS Partners, Users and Employees

From: Bruce Entwistle
 Chief, Aviation and Space Weather Services Branch

Subject: Implementation of Terminal Aerodrome Forecast (TAF)
Service for Upper Cumberland Regional Airport (KSRB), Sparta TN:
Effective May 2, 2023

NOTE: The following changes have no impact on NOAA Weather Wire Service.

Effective Tuesday, May 2, 2023 at 1800 Coordinated Universal Time (UTC), the NWS office in Nashville, TN will begin TAF service for the Upper Cumberland Regional Airport, TN. After that date, routine TAFs will be issued for this airport 24 hours a day.

NWS personnel/offices will need to add the following identifier to their communications systems to receive the new TAF:

Airport Name	WMO Heading	AWIPS ID
-----	-----	-----
Upper Cumberland Regional	FTUS44 KOHX	TAFSRB

In addition, the new TAF will be added to the existing TAF collectives below, which are transmitted to FAA personnel and other external users.

World Meteorological Organization (WMO) Headings available to the following customers:

FTUS80 KWBC	Non-FAA Domestic and Family of Services
FTUS90 KWBC	FAA Weather Message Switching Center and FAA Facilities
FTUS52 KWBC	Global Telecommunication System Customers
FTUS23 KWBC	Global distribution for ICAO

Starting new TAFs

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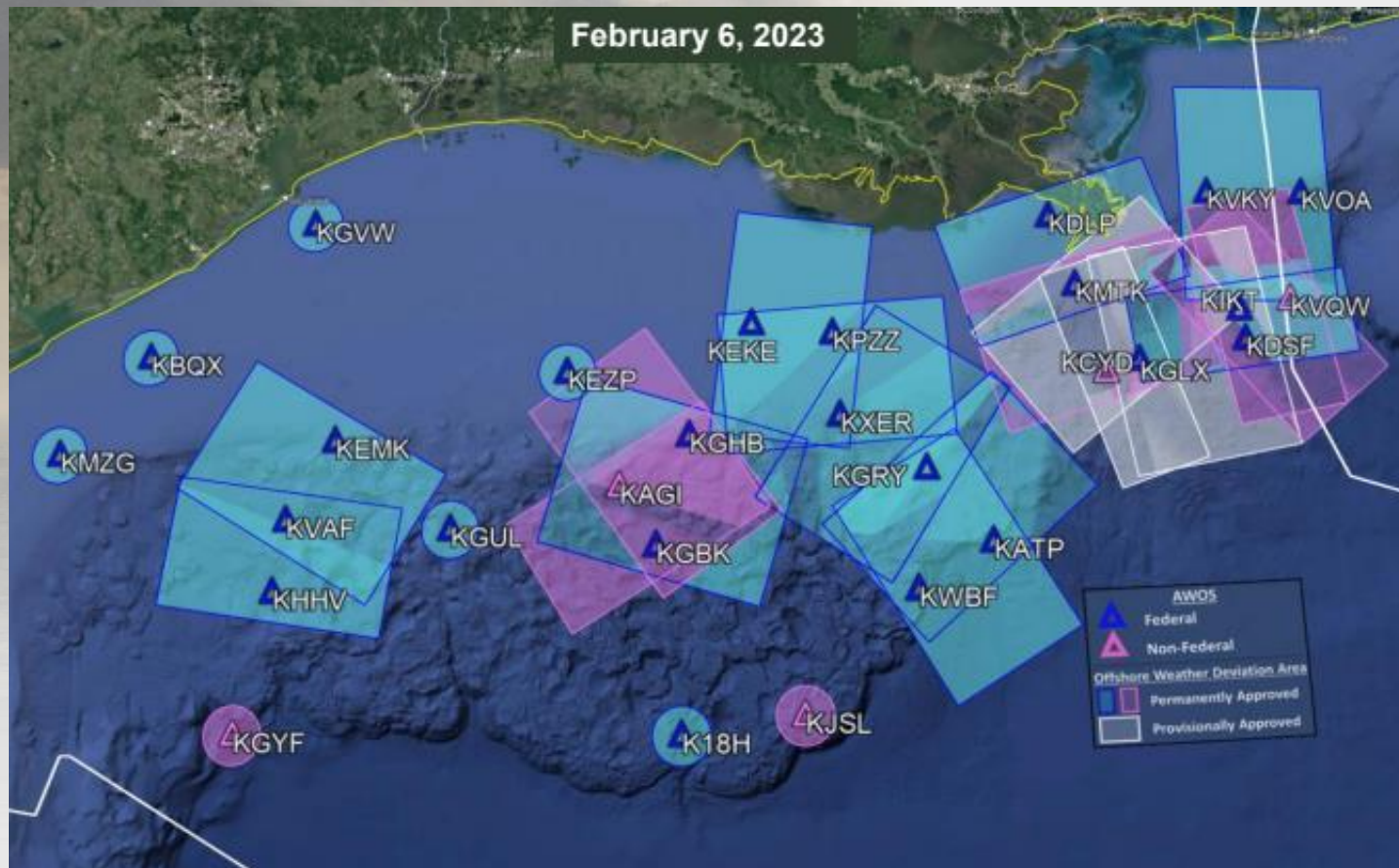
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Nuances:

- Temporary TAFs (e.g., Super Bowl, other big events)
- TAF deletion - rare event and with agreement from users
- TAF suspension - rare, obs equipment has long term outage

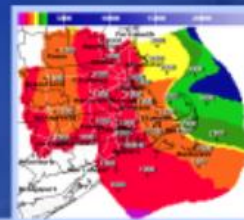
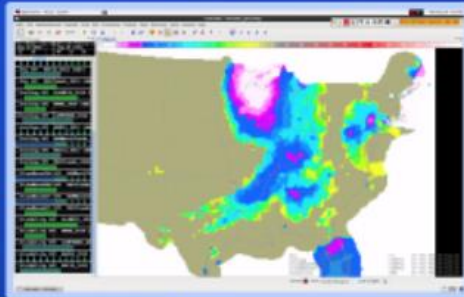
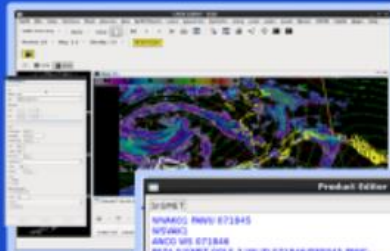
NWS REQUEST FOR CHANGE FORM		1. WSH TRACKING NUMBER	1A. REV LEVEL	2. DATE RECEIVED
PART A - COVER SHEET				
<small>This form is in three parts. Submitters must complete unshaded blocks in Part A, and as much of Part B and C as possible. If there is no specific required change date, enter 60 days from date submitted. Address questions to NWS Change Management at (301) 713-1573. Submit change requests to the NWSRC mailbox (External: NWSRC@noaa.gov).</small>				
3. ORIGINATOR OFFICE SRH OSD	4. SUBMITTING AUTHORITY Name: Melinda Bailey Routing Code: WISRI1x5	5. COGNIZANT TECHNICAL INDIVIDUAL Name: Paul Witsaman Routing Code: WISRI1x2 Phone: 817-978-1100, ext 116	6. ORIGINATOR TRACKING NUMBER SR 1052	7. DATE SUBMITTED February 3, 2023
8. SYSTEMS AFFECTED BY CHANGE <input type="checkbox"/> ASOS <input checked="" type="checkbox"/> AWIPS <input type="checkbox"/> CSSA <input type="checkbox"/> CRS <input type="checkbox"/> DATA PRODUCTS <input type="checkbox"/> EMWIN <input type="checkbox"/> NEXRAD <input type="checkbox"/> RRS <input type="checkbox"/> OTHER (specify)				9. ORD IDENTIFIER
10. TITLE OF CHANGE Add WMO/PIL TAF for Hardy-Anders Field/Natchez-Adams County Airport, KHEZ				
11. CATEGORY OF CHANGE <input checked="" type="checkbox"/> RC <input type="checkbox"/> PECP <input type="checkbox"/> ECP		12. TYPE OF CHANGE <input type="checkbox"/> DOCUMENTATION ONLY <input type="checkbox"/> HARDWARE <input type="checkbox"/> SOFTWARE <input type="checkbox"/> DATA		
13. SITES AFFECTED KHEZ (Hardy-Anders Field/Natchez-Adams County Airport, MS)				
14. STATEMENT OF REQUIREMENT, PROBLEM, OR DEFICIENCY OF EXISTING SYSTEM Hardy-Anders Field/Natchez-Adams County Airport has increased aircraft operations to a level that exceeds a need for a TAF.				
15. KNOWN OR PROPOSED SOLUTION WFO Jackson MS to prepare and issue TAF for KHEZ.				
16. ALTERNATE SOLUTIONS None				
17. REQUIRED CHANGE DATE June 13, 2023	18. RATIONALE FOR REQUIRED CHANGE DATE Per customer request		19. PRIORITY <input checked="" type="checkbox"/> ROUTINE <input type="checkbox"/> URGENT <input type="checkbox"/> EMERGENCY	
DRG/CCB/PMC/CMB DECISION				
20. DECISION AUTHORITY AND IMPACT LEVEL	<input type="checkbox"/> PMC or NWS CMB DECISION REQUIRED	<input type="checkbox"/> CCB LEVEL ONLY	<input type="checkbox"/> FAST TRACK	<input type="checkbox"/> MAJOR CHANGE <input type="checkbox"/> MINOR CHANGE
21. CCB LEVEL DECISION	<input type="checkbox"/> APPROVED <input type="checkbox"/> RECOMMEND APPROVAL	<input type="checkbox"/> DISAPPROVED <input type="checkbox"/> REFERRED TO OSIP	SIGNATURE DATE SIGNED	
FOR USE ONLY WHEN PMC or NWS CMB DECISION REQUIRED				
22. PMC or NWS CMB DECISION	<input type="checkbox"/> APPROVED <input type="checkbox"/> DISAPPROVED	SIGNATURE/DATE		

Working with the FAA's Gulf Sustainment Team since 2017



Digital Aviation Services

Paving the way for aviation forecasts of the future



Product Editor

310PMZ
NPA000 INVO 071845
NPA000
ANCO VR 071848
PZA 0000Z GOLF 3 VALID 071848/080045 NPA000
ANCHORAGE: FV WDSUPNCD THUNDERSTORM OBSERVED BY N0264 WL7827
N0354 WL7873 - N0394 WL7428 - N0208 WL7378 - N0258 WL7827
FL040FL40: NOW SEE 1547: NO CHANGE
--- ADD ANY REMARKS HERE...DELETE IF NOT USED---
KLMJUL 2015 ANNU

KDEN 031815Z 0318/0424 04010KT P6SM VCSH BKN080 OVC120
TEMPO 0323/0402 VRB12G28KT -TSRA OVC070CB
FM040200 22010KT P6SM BKN080 BKN140
FM040600 19008KT P6SM SCT100 SCT150
FM041400 VRB06KT P6SM SCT090 BKN140
FM042100 16008KT P6SM VCSH BKN080 OVC120



DAS Benefits

- **Consistency of all NWS services**
 - WFO-to-WFO
 - One service program to another
 - National Center-to-WFO
- **All NWS Service Areas working from the same dataset**
- **Increase efficiency of forecast operations**
 - Provide IDSS on short-fused timelines
 - Generate TAFs efficiently and increase consistency
 - Additional TAF-like forecasts at points not currently represented

Aviation Services Program

Building a Weather-Ready Nation and Evolving the NWS

FY23 Includes:

- AFS24 QMS implementation
 - CIG/VIS/LLWS collaboration
-
- Track: FAA San Francisco (SFO) metroplex needs analysis
 - Prepare: CWSU/NAM IAA requirements
 - Prepare: ICAO Annex 3 Amd 81 implementation in Nov 2024

FY23

FY24 Includes:

- Policy adaptation for ICAO Annex 3 Amendment 81 applicable in Nov 2024
- Implementation of the CONUS and Puerto Rico cloud ceiling, visibility, and low level wind shear NDFD

FY24

- Decide: CWSU/NAM IAA proposal
- Prepare: SFO aviation metroplex information and services requirements
- Prepare: NWS needs for Aviation digital information (XML) from FAA
- Prepare: WAFC tailored information delivery requirements
- Prepare: Point & Click aviation forecasts

FY25

FY25 Includes:

- Point & click Aviation forecast requirements
 - WIS2/SWIM interoperability definition
-
- NWS needs for Aviation digital information (XML) from FAA
 - ICAO Annex 3 Amd 81 policy and product implementations including Quant Volcanic Ash
 - Tailored WAFS data via cloud services
 - Probabilistic WAFS convective forecasts

FY26 - 29+

FY26 and Beyond Includes:

- Policy adaptation for Amds 82, 83
- Ingest and use aviation XML OPMET across the NWS enterprise
- Cessation of international requirement for text products
- Probabilistic forecasts for icing, turbulence and Cb cloud
- ICAO Hazardous Wx Info System
- Finer grid resolution for WAFS
- Digital Aviation Services in AR, PR
- NWS to CSS-Wx operational implementation completion
- Hazard Services for Aviation including Quant Volcanic Ash
- Mature digital data exchange including WIS/SWIM interoperability
- QMS maintenance
- TFM metrics verification
- Mission Svc Area obs

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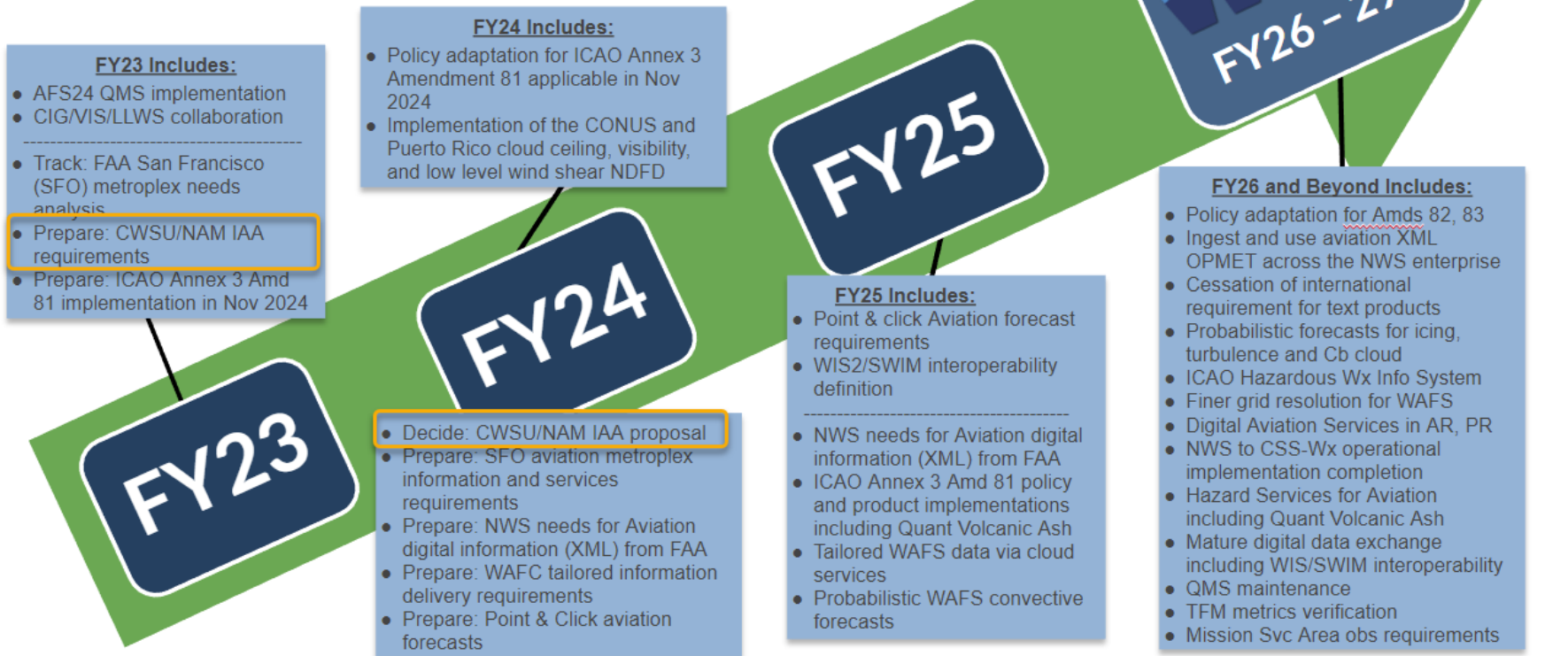
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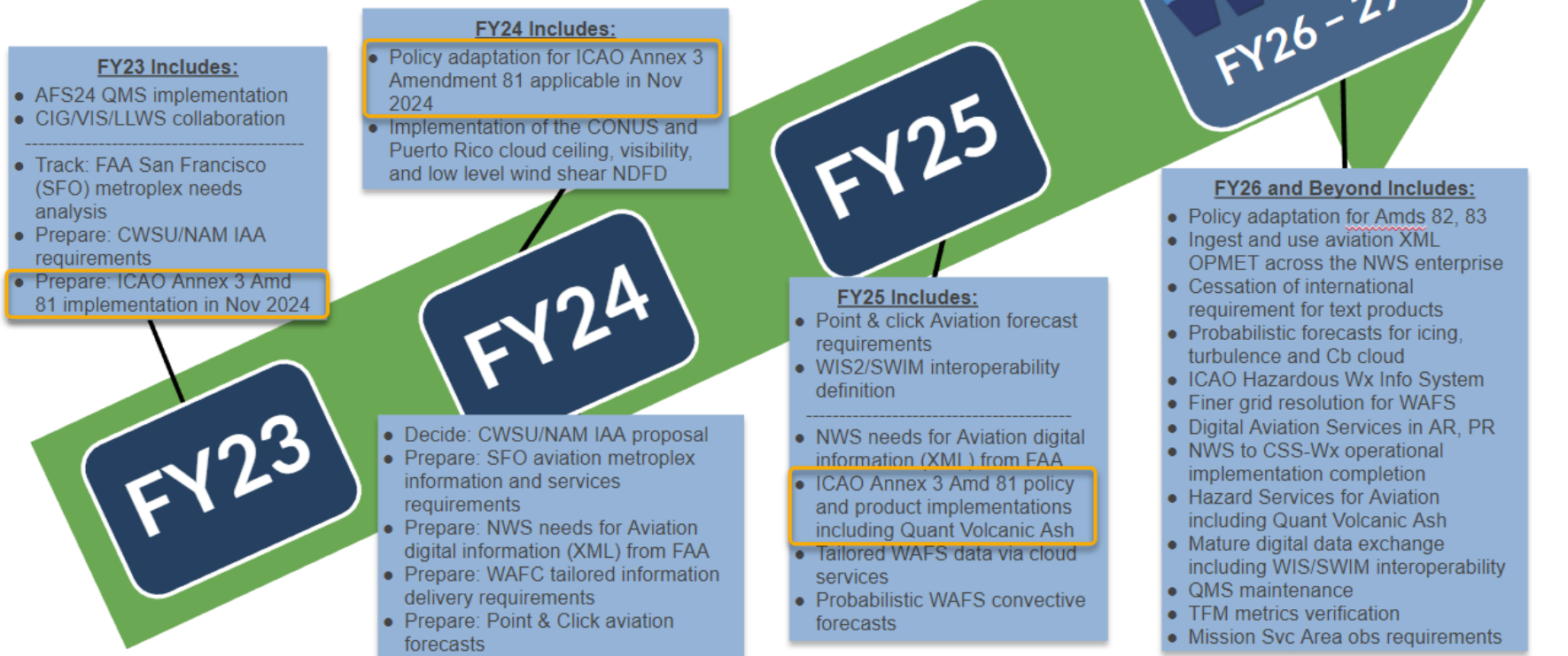
Aviation Services Program

Building a Weather-Ready Nation and Evolving the NWS



Aviation Services Program

Building a Weather-Ready Nation and Evolving the NWS



BREAKING: Early Update to 10-813 Coming

Department of Commerce • National Oceanic & Atmospheric Administration • National Weather Service

NATIONAL WEATHER SERVICE INSTRUCTION 10-813

NOVEMBER 18, 2020

Operations and Services

Aviation Weather Services, NWSPD 10-8

TERMINAL AERODROME FORECASTS

Will be done a year
earlier than required

What: Introduce PROB30 in the first 9 hours of the TAF and reduce the VCTS usage

Why: To improve consistency between public & aviation products from the NDFD

When: Spring of 2024 with work starting in March 2023
(will seek field SMEs to help)



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- + Sub-Regional Aviation Workshops
- + CWSUs
- + Starting a New TAF
- + Weather Boxes in the Gulf of Mexico
- + Digital Aviation Services
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Questions / Comments



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SCAN ME



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SCAN ME

COLLABORATION

EXCHANGE INSPIRATION SHARE

THINKING

GOALS

ASSIST

PROST

CONVINCE