

Weather Products and Briefings

Types of Weather Info

- ▶ Real time (or nearly so) observations – text products
 - ▶ METARs
 - ▶ ASOS/AWOS
 - ▶ ATIS
 - ▶ PIREPs
- ▶ Current Condition Charts
 - ▶ Surface Analysis Charts
 - ▶ Weather Depiction Charts
- ▶ Forecasts
 - ▶ TAFs
 - ▶ Graphical Area Forecasts
 - ▶ Outlook (Prog) Charts
 - ▶ Winds Aloft
- ▶ Hazards to Aviation: SIGMets and AIRMets

METAR

METerological Aerodrome Report

KESN 242345Z 32005KT 10SM CLR 07/M06 A3047

KBWI 242354Z 32007KT 10SM FEW150 SCT200 SCT250 07/M08
A3044 RMK AO2 SLP308 T00721083 10122 20072 53026

KLTS 261955Z AUTO 13024G30KT 7SM OVC004 11/11 A2963
RMK AO2 PK WND 12032/53 PRESFR SLP034 T01130111

KHMN 262014Z AUTO 24035G50KT 3/4SM R16/2200V4500FT HZ
VV013 15/M02 A2979 RMK AO2 CIG 002 RWY34 SLP044

SPECI KHIE 262008Z AUTO 00000KT 1 1/4SM -SN BR OVC021
M08/M10 A2964 RMK AO2 P0000 T10781100

Airport ID and time of observation

Time = day of month + hh:mm Zulu

SPECI = observation outside usual schedule

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AUTO

If the observation was recorded from an automated weather station, AUTO will appear here

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Winds

nnn° true direction wind is blowing from
(d)ddKT: wind speed in knots

ddGddKT means base wind + gusts (>10kt between lull and peak) over last 10 minutes

VRB < 6KT or direction changes +/- 60°

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Visibility/Runway Visual Range

Greatest horizontal distance at which selected objects can be seen and identified in statute miles (SM)
10 means "10 or greater"; M means "less than"

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Present Weather (Precipitation, Obscuration, etc)

2 letter codes with modifiers; can be combined

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M08/M10 A2964 RMK AO2 P0000 T10781100

Present Weather (Precipitation, Obscuration, etc)

Qualifier		Weather Phenomena			
Intensity or Proximity	Descriptor	Precipitation	Obscuration	Other	
1	2	3	4	5	
-	Light	MI Shallow	DZ Drizzle	BR Mist	PO Dust/Sand Whirls
	Moderate ²	PR Partial	RA Rain	FG Fog	SQ Squalls
+	Heavy	BC Patches	SN Snow	FU Smoke	FC Funnel Cloud, Tornado, or Waterspout ⁴
VC	In the Vicinity ³	DR Low Drifting	SG Snow Grains	VA Volcanic Ash	
		BL Blowing	IC Ice Crystals (Diamond Dust)	DU Widespread Dust	SS Sandstorm
		SH Shower(s)	PL Ice Pellets	SA Sand	DS Dust Storm
		TS Thunderstorms	GR Hail	HZ Haze	
		FZ Freezing	GS Snow Pellets	PY Spray	
			UP Unknown Precipitation		

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		SH Shower(s)	PL Ice Pellets	SA Sand	DS Dust Storm
		TS Thunderstorms		HZ Haze	
		FZ Freezing	GR Hail	PY Spray	
			GS Snow Pellets		
		UP Unknown Precipitation			

METAR	Description	Origin	Explanation
BC	Patchy/Patches	French	"banc" meaning bank as in a fog bank
BR	Mist	French	"Brume" meaning mist
PO	Well-Developed Dust/Sand Whirls	French	"poussiere" meaning dust
MI	Shallow	French	"mince" meaning a thin slice
FU	Smoke	French	"fumée" meaning smoke, also Spanish/Portuguese fumar or Italian fumare
GR	Hail	French	"grêle" meaning hail, also Spanish/Portuguese granizo
GS	Small Hail or Snow Pellets (< 1/4)	French	"gresil" meaning small hail

Sky condition/ceilings

condition 1 of 6 codes; ceilings in 00s feet AGL

KESN 242345Z 32005KT 10SM CLR 07/M06 A3047

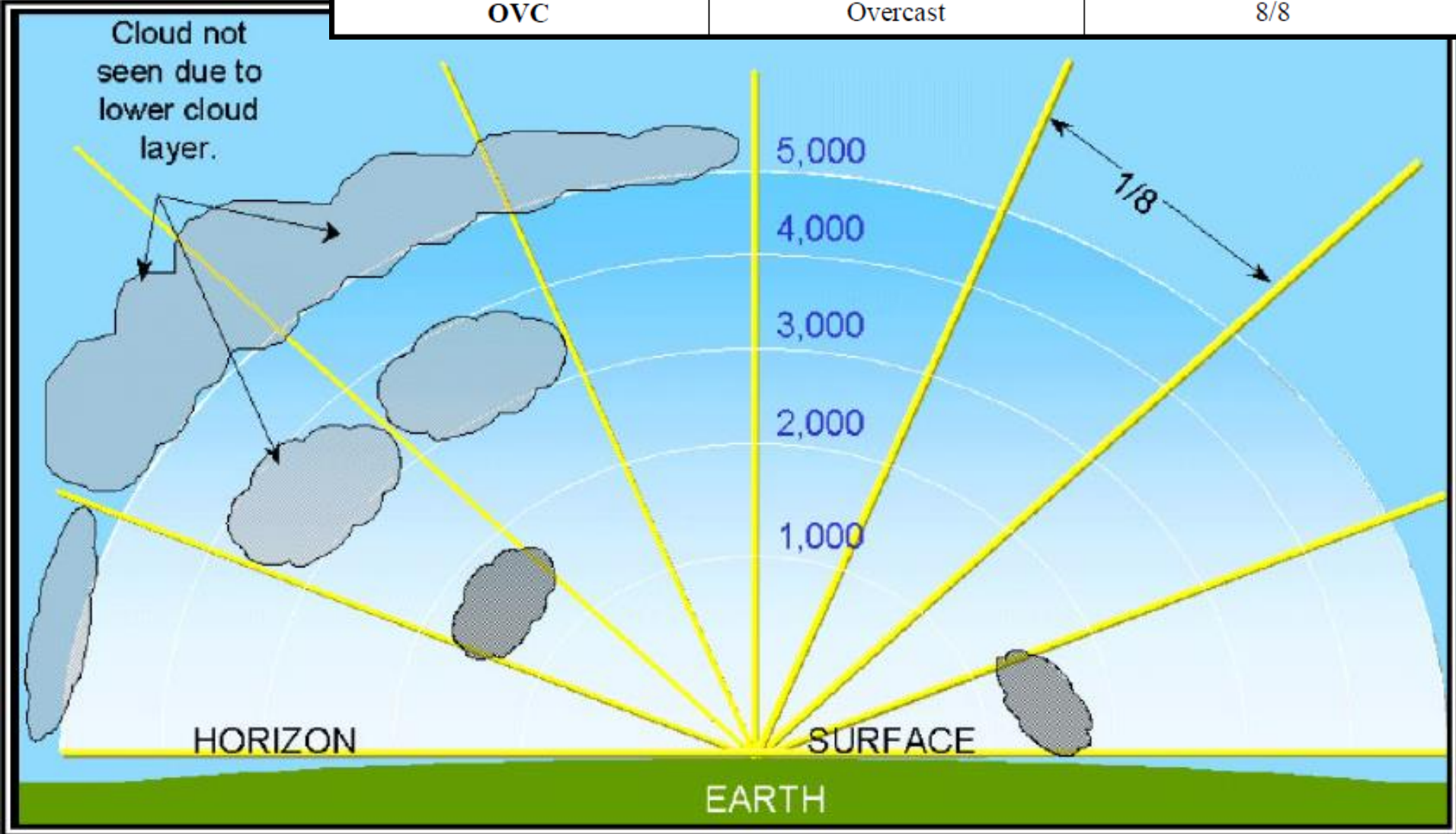
KBWI 242354Z 32007KT 10SM FEW150 SCT200 SCT250 07/M08
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AO2 PK WND 12032/53 PRESFR SLP034 T01130111

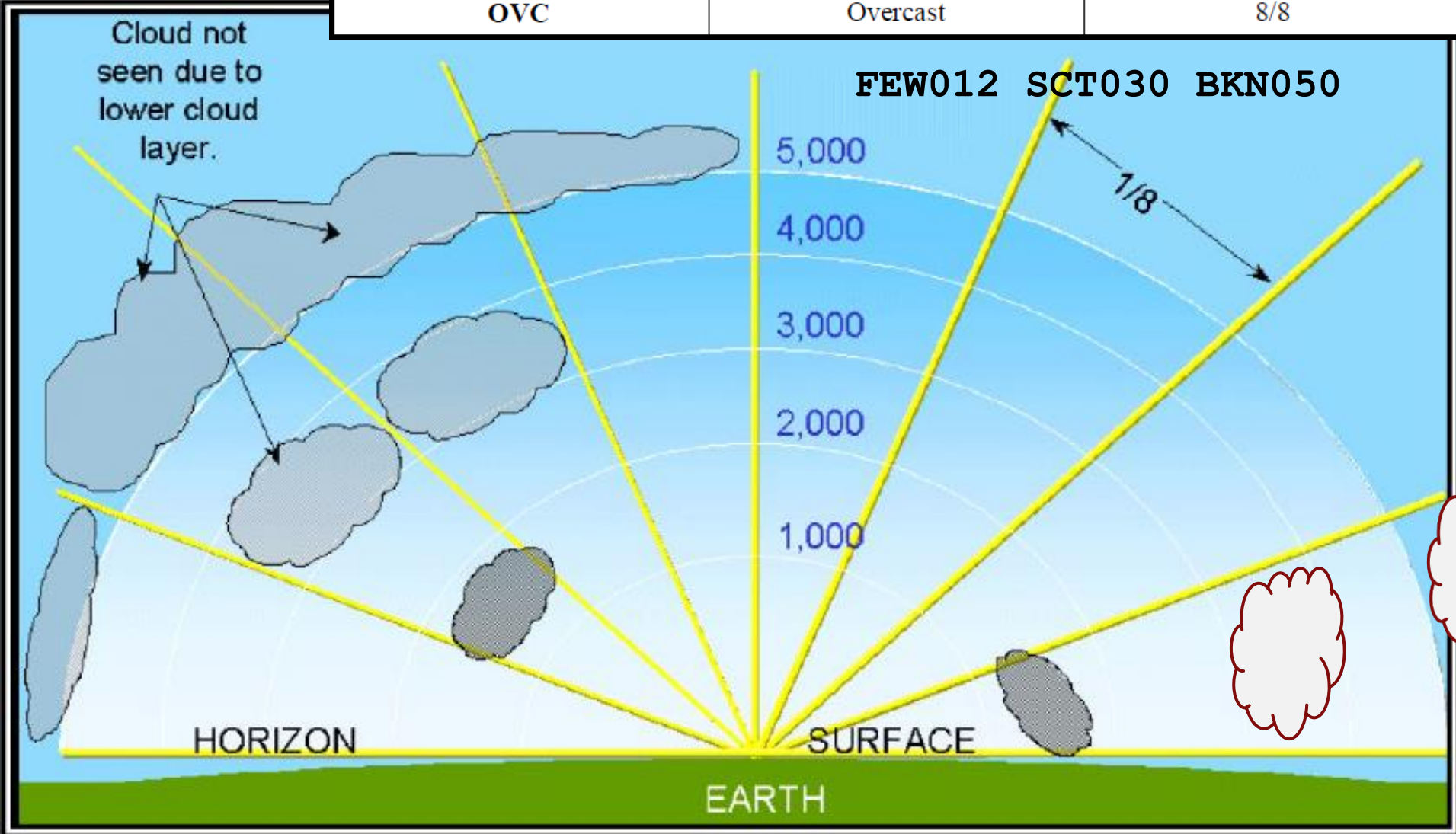
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SPECI KHIE 262008Z AUTO 00000KT 1 1/4SM -SN BR OVC021
M08/M10 A2964 RMK AO2 P0000 T10781100

VV	Vertical Visibility	8/8
SKC or CLR	Clear	0
FEW	Few	1/8 – 2/8
SCT	Scattered	3/8 – 4/8
BKN	Broken	5/8 – 7/8
OVC	Overcast	8/8



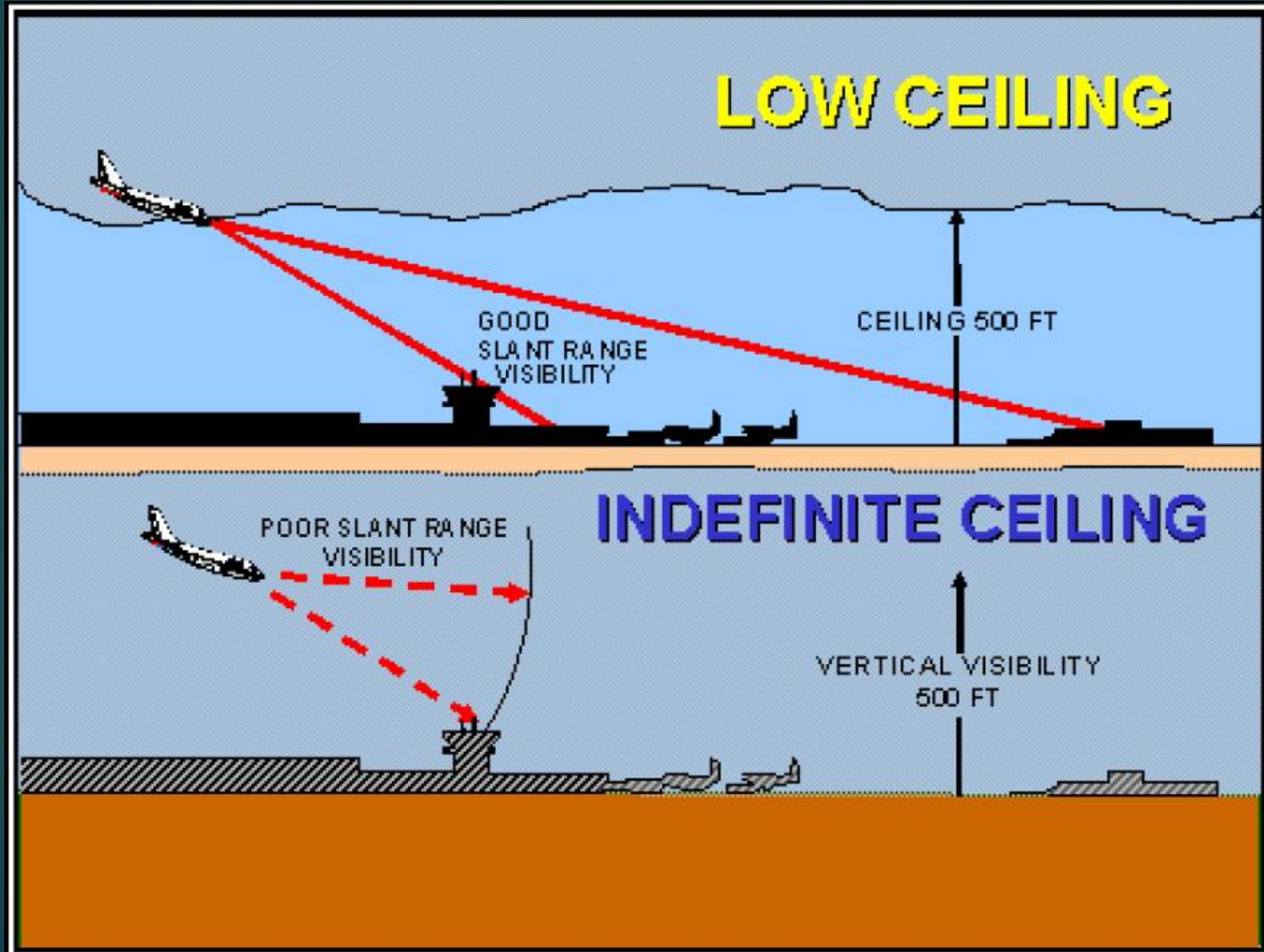
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Vertical Visibility

KHMN 262014Z AUTO 24035G50KT 3/4SM R16/2200V4500FT HZ

VV005 15/M02 A2979 RMK AO2 CIG 002 RWY34 SLP044



Temperature/Dewpoint rounded to nearest whole degree Celsius

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Altimeter

current pressure at altitude; no decimal point

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Remarks

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M08/M10 A2964 RMK AO2 P0000 T10781100

Automated, Manual, and Plain Language				Additive and Automated Maintenance Data	
1.	Volcanic Eruptions	14.	Hailstone Size	27.	Precipitation Amount Within a Specified Time Period*
2.	Funnel Cloud	15.	Virga	28.	Cloud Types*
3.	Type of Automated Station	16.	Variable Ceiling Height	29.	Duration of Sunshine*
4.	Peak Wind	17.	Obscurations	30.	Hourly Temperature and Dewpoint
5.	Wind Shift	18.	Variable Sky Condition	31.	6-Hourly Maximum Temperature*
6.	Tower or Surface Visibility	19.	Significant Cloud Types	32.	6-Hourly Minimum Temperature*
7.	Variable Prevailing Visibility	20.	Ceiling Height at Second Location	33.	24-Hour Maximum and Minimum Temperature*
8.	Sector Visibility	21.	Pressure Rising or Falling Rapidly	34.	3-Hourly Pressure Tendency*
9.	Visibility at Second Location	22.	Sea Level Pressure	35.	Sensor Status Indicators
10.	Lightning	23.	Aircraft Mishap	36.	Maintenance Indicator
11.	Beginning and Ending of Precipitation	24.	No SPECI Reports Taken	<p>Note: Additive data is primarily used by the NWS for climatological purposes.</p> <p>*These groups should have no direct impact on the aviation community and will not be discussed in this document.</p>	
12.	Beginning and Ending of Thunderstorms	25.	Snow Increasing Rapidly		
13.	Thunderstorm Location	26.	Other Significant Information		

Remarks appended to METARS

13-9

Remarks	Definition
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Sky and Ceiling

FEW CU	Few cumulus clouds.
BINOVC	Breaks in overcast.
LWR CLDS NE	Lower clouds northeast.
CIG 14V19	Ceiling variable between 1,400 feet and 1,900 feet.

Obscuring Phenomena

FG7	Fog obscuring 7/10 of the
BLSA3	Blowing sand obscuring 3/10 of the sky.
THN FG NE	Thin fog northeast from reporting station.

Visibility

VSBY S1W1/4	Visibility south is 1 mile, west is 1/4 mile.
SFC VSBY 1/2	Surface visibility is 1/2 mile.

Remarks	Definition
---------	------------

Weather and Obstruction to Vision

RAB30	Rain began 30 minutes after the hour.
RAE30	Rain ended 30 minutes after the hour.
OCNL DST LTG NW	Occasional distant lightning northwest of reporting station.
T OVHD MOVG NE	Thunderstorm overhead, moving northeast.

Wind

WND 27V33	Wind variable between 270 degrees and 330 degrees.
PK WND 33048/22 <small>(PK WND' is used whenever the peak winds exceed 25 knots)</small>	Peak wind within the past hour from 330 degrees at 48 knots occurred 22 minutes past the hour.

Pressure

PRESSR	Pressure rising rapidly.
PRESFR	Pressure falling rapidly.

PIREPs (Pilot Reports)

A TYPICAL PILOT REPORT (PIREP)

UA /OV OKC-TUL /TM 1800 /FL 120 /TP BE90
/SK 018 BKN 055/072 OVC 089 /CLR ABV
/TA -9 /WV 0921 /TB MDT 055-072 /IC LGT-MDT
CLR 072-089.

PIREP FORM

Pilot Weather Report → = Space Symbol

3 letter SA identifier

1. UA →

Routine
PIREP

UUA →

Urgent
PIREP

2. / OV →	Location:
3. / TM →	Time:
4. / FL →	Altitude/Flight Level:
5. / TP →	Type Aircraft:
<i>Items 1 through 5 are mandatory for all PIREPS</i>	
6. / SK →	Sky Cover:
7. / WX →	Flight Visibility and Weather:
8. / TA →	Temperature (Celsius):
9. / WV →	Wind:
10. / TB →	Turbulence:
11. / IC →	Icing:
12. / RM →	Remarks:

13-34&35



PIREP B737

Obs Time: 2018-03-02T15:38:00Z

Turb intensity: LGT-MOD

Turb type: CHOP

Flight level: 005

PIREP: ISP UA /OV KISP/TM 1538/FL005/TP B737/TB
LGT-MOD CHOP/RM LIKE MR TOADS WILD RIDE



PIREP B737

Obs Time: 2018-03-02T15:38:00Z

Turb intensity: LGT-MOD

Turb type: CHOP

Flight level: 005

PIREP: ISP UA /OV KISP/TM 1538/FL005/TP B737/TB
LGT-MOD CHOP/RM LIKE MR TOADS WILD RIDE

Urgent PIREP CRJ2

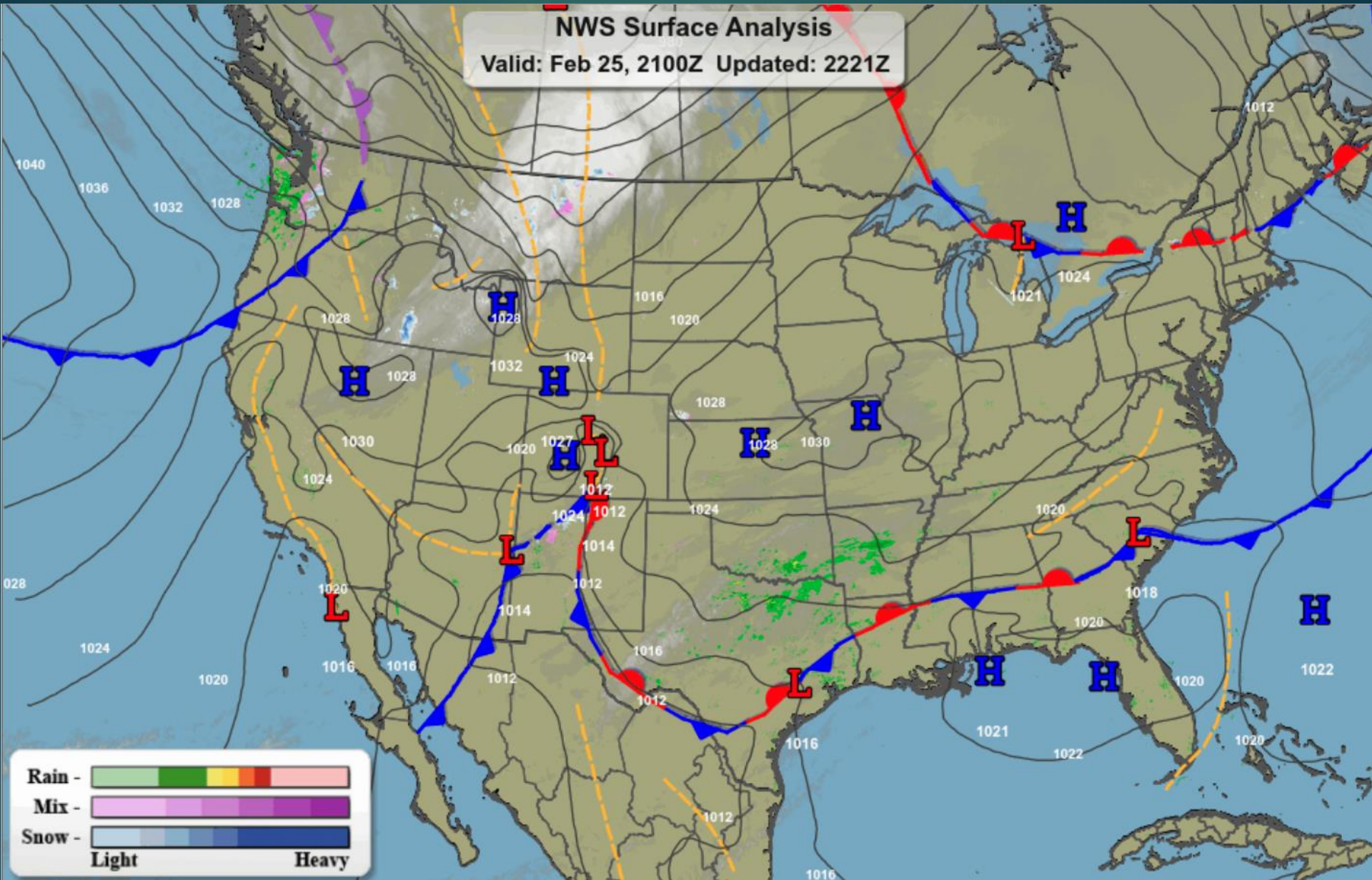
Obs Time: 2018-03-02T12:38:00Z

Turb intensity: MOD-SEV

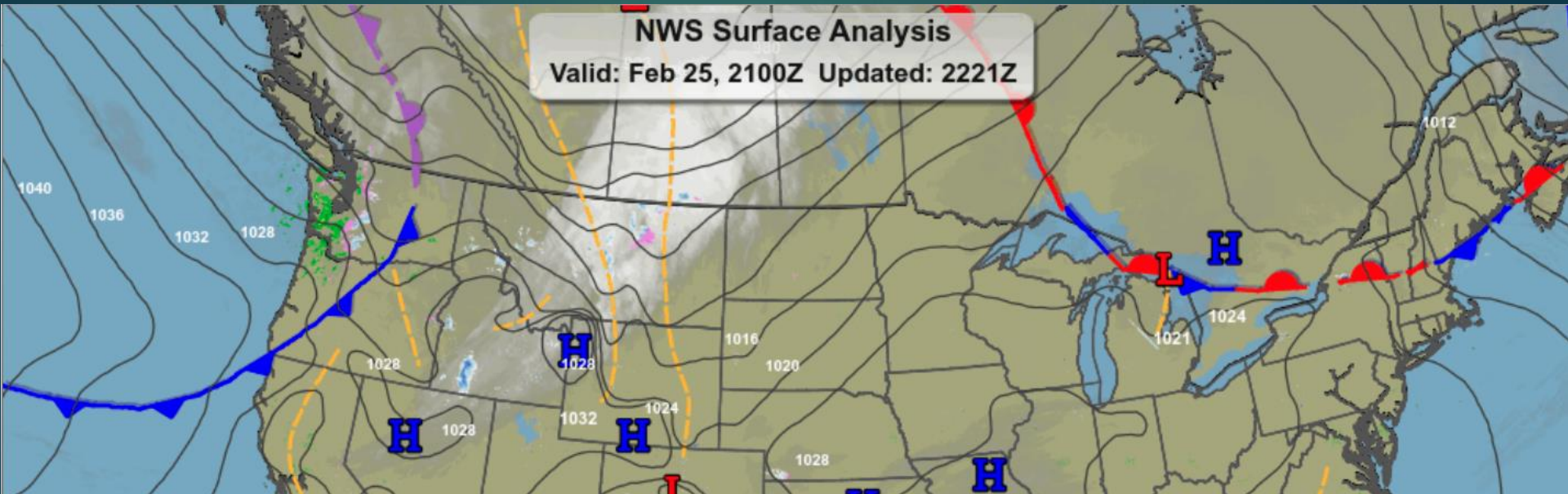
Flight level: 040

Urgent PIREP: IAD UUA /OV KIAD/TM 1238/FL040/TP
CRJ2/TB MOD-SEV/RM VERY BUMPY ON DESCENT. PRETTY
MUCH EVERY ONE ON THE PLANE THREW UP. PILOTS
WERE ON THE VERGE OF THROWING UP. AWC-WEB

Current Conditions: Surface Analysis Chart

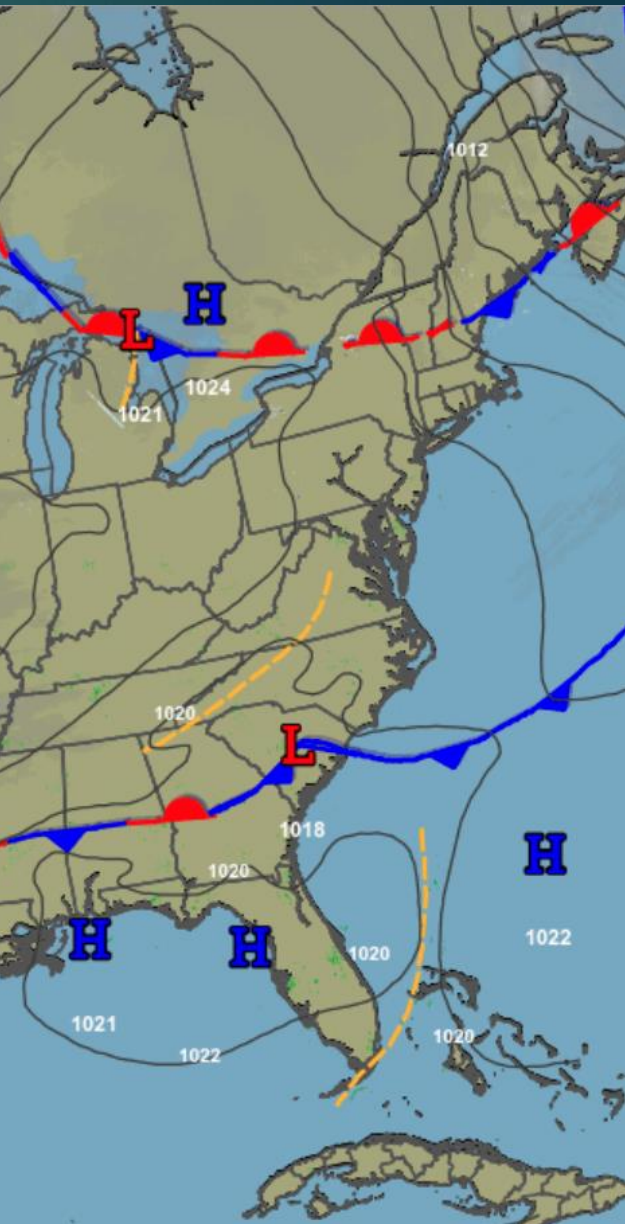


Surface Analysis Chart








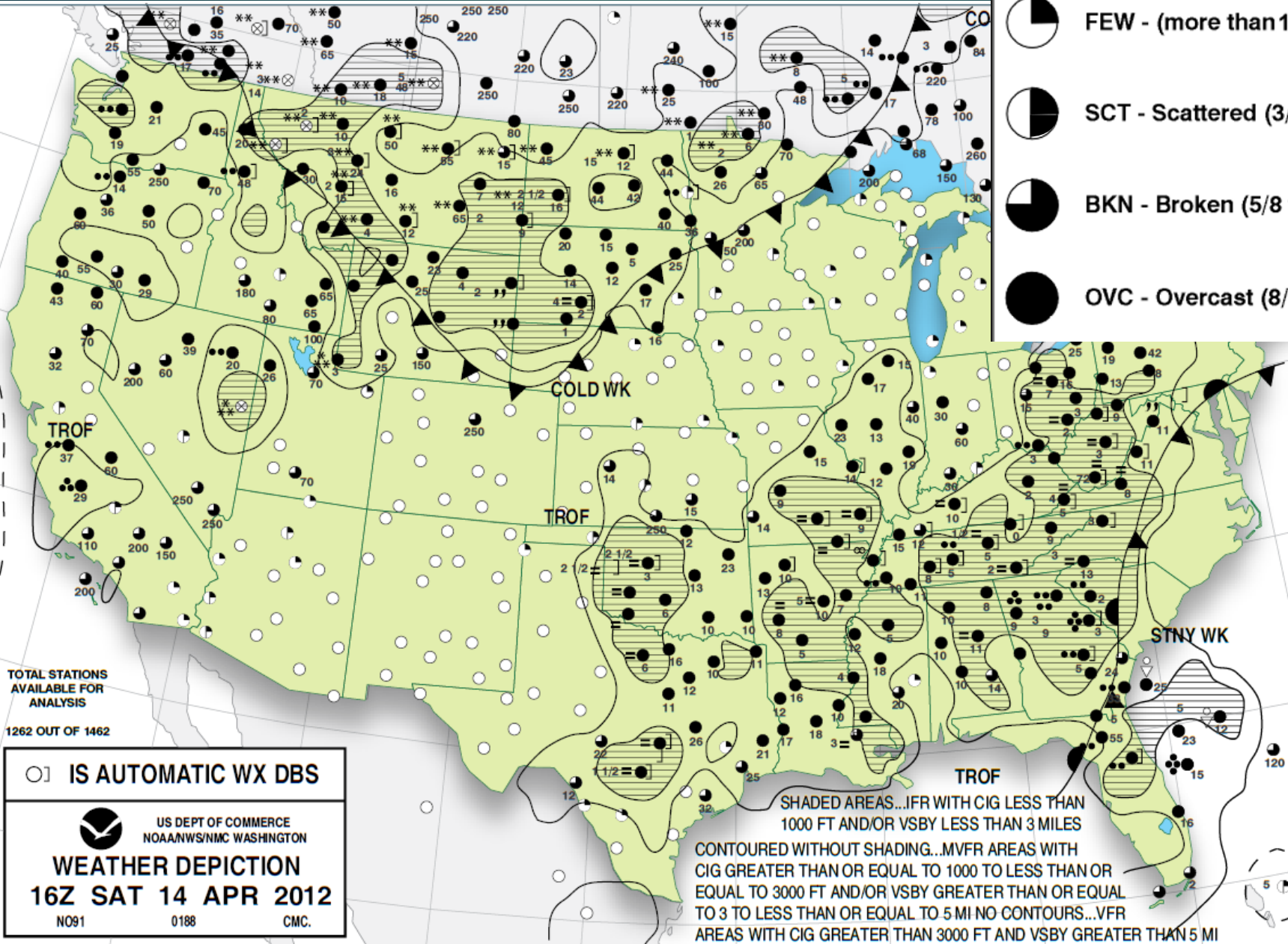
NWS Surface Analysis
 Valid: Feb 25, 2100Z Updated: 2221Z

Weather Type	Symbol	Weather Type	Symbol
Cold Front		Squall Line	
Warm Front		Cold Frontolysis	
Stationary Front		Warm Frontolysis	
Occluded Front		Stationary Frontolysis	
Change of Front Type		Occluded Frontolysis	
Cold Frontogenesis		High Pressure Center	
Warm Frontogenesis		Low Pressure Center	
Stationary Frontogenesis		Tropical Wave	
Trough or Outflow Boundary		Tropical Depression	
Dryline		Tropical Storm	
Ridge		Hurricane/Typhoon	




Weather Depiction Chart

-  Sky Clear
-  FEW - (more than 1/8 to 2/8)
-  SCT - Scattered (3/8 to 4/8)
-  BKN - Broken (5/8 to 7/8)
-  OVC - Overcast (8/8)



TOTAL STATIONS AVAILABLE FOR ANALYSIS
1262 OUT OF 1462

IS AUTOMATIC WX DBS

 US DEPT OF COMMERCE
NOAA/NWS/NMC WASHINGTON

WEATHER DEPICTION
16Z SAT 14 APR 2012

NO91 0188 CMC.

US DEPT OF COMMERCE
NOAA/NWS/NMC WASHINGTON

16Z SAT 14 APR 2012 A6+41

STANDARD WEATHER SYMBOLS

SYMBOL/MEANING		SYMBOL/MEANING	
	Moderate turbulence		Rain shower
	Severe turbulence		Snow shower
	Moderate icing		Thunderstorm
	Severe icing		Tropical storm
	Rain		Hurricane (typhoon)
	Snow		Freezing rain
	Drizzle		

A single symbol denotes intermittent precipitation and a double symbol denotes continuous precipitation.

	Drizzle	Rain	Snow
INTERMITTENT			
CONTINUOUS			
CONTINUOUS & MODERATE			
INTERMITTENT & HEAVY OR (THICK)			
	Slight or moderate thunderstorm with rain and/or snow (left) or hail (right).		

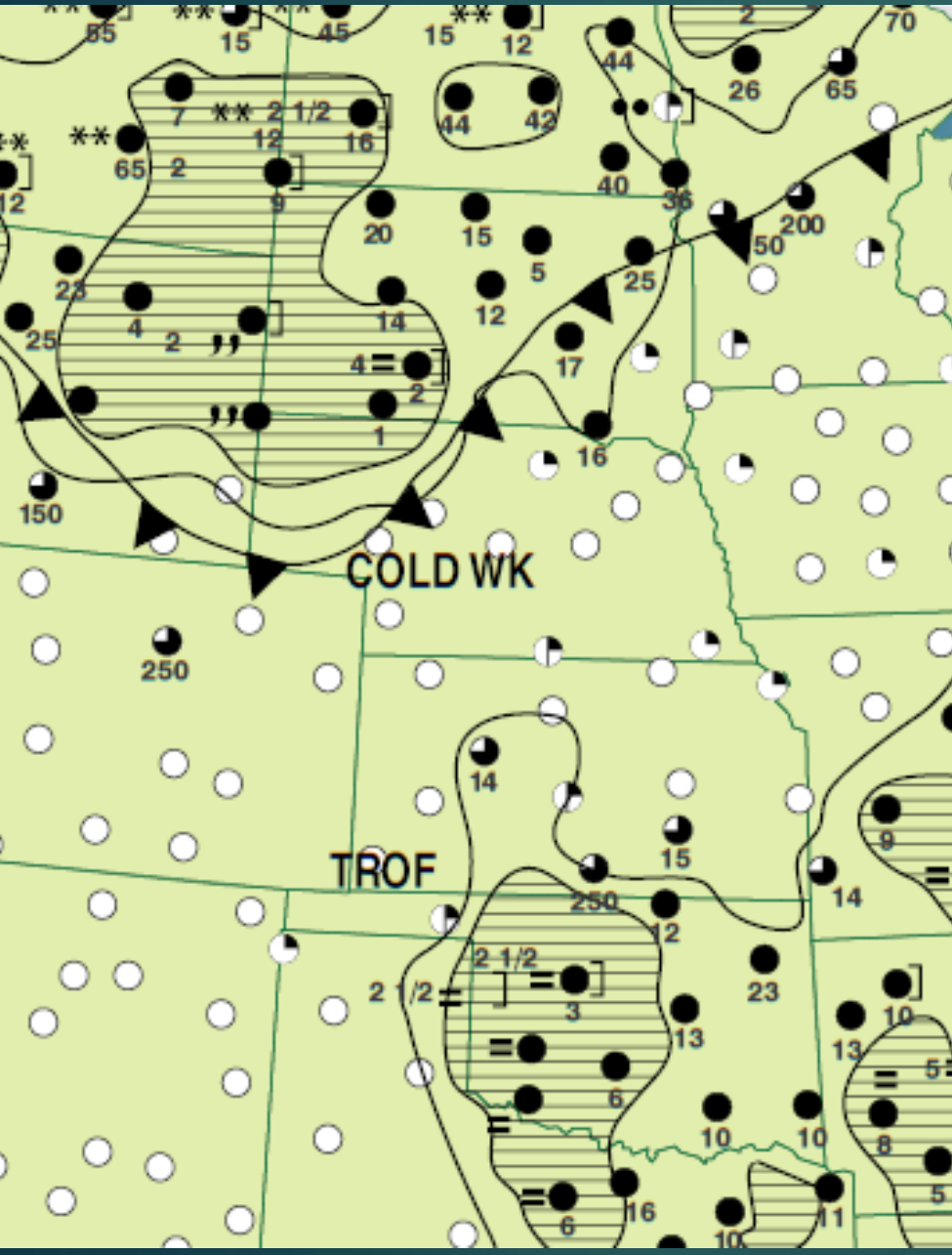
Moderate or heavy rain showers.



13-30





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Weather Depiction Chart



© Rod Machado's Private Pilot Handbook

WX DEPICTION PLOTTING SYMBOLS

PLOTTING SYMBOL	MEANING
 8	Few clouds, base 800 feet, visibility more than 5
 12	Broken sky cover, ceiling 1,200 feet, slight rain showers, visibility more than 5
 20	Scattered at 2,000 feet, clouds topping ridges, visibility more than 5
 5	Thin overcast with breaks, visibility 5 in haze

PLOTTING SYMBOL	MEANING
2= 	Sky clear, visibility 2, light fog
1/2 ≡  3	Total sky obscuration, visibility 1/2, fog, vertical visibility into obs 300 feet, fog determined by automated system
2=  2	Total sky obscuration, vertical visibility into obs is 200 feet, visibility 2, light fog
1/4 *  5	Total sky obscuration, vertical visibility into obs is 500 feet, visibility 1/4 intermittent snow
1  12	Overcast, ceiling 1,200 feet thunderstorms, rain showers, visibility 1

Terminal

Aerodrome

Forecast

Expected meteorological conditions at an airport
during a specified period

Issued by the National Weather Service

TAFs are valid for 24 to 30 hours

Wind, visibility, cloud cover, and expected
precipitation within a 5-statute-mile radius of the
airport center

Issued at designated weather service forecast offices
(WFOs)

Available in both text and graphical formats via
aviationweather.gov

TERMINAL AERODROME WEATHER FORECAST (TAF)

TAF

KLAX 091140Z 091212 22020KT 3SM -SHRA BKN020
BECMG 1619 33015KT FM0300 35014KT 2SM TSRA OVC015
TEMPO 0612 1SM +RA PROB40 0809 1/2SM FG

13-15

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DECODED TERMINAL AERODROME WEATHER FORECAST (TAF)

TAF
KLAX 101740Z 101818 12020KT 4SM -RA OVC016

FM1920 30015G25KT 3SM SHRA OVC015 PROB40 2022 1/2SM TSRA OVC008CB
FM2300 27008KT 5SM -SHRA BKN020 OVC040 TEMP 0205 00000KT 1SM -RA FG
FM0800 22010KT 5SM -SHRA OVC020 BECMG 1214 20010KT P6SM NSW SKC

Above TAF Decoded

KLAX 101740Z 101818 12020KT 4SM -RA OVC016

Station: Los Angeles

Issued on 10th day at 1740 Zulu

Forecast time from 18Z on the 11th to 18Z on the 10th

Wind forecast 120° at 20 knots

4 statute miles visibility

Light rain

Overcast (ceiling) at 1,600 feet AGL

13-16A

DECODED TERMINAL AERODROME WEATHER FORECAST (TAF)

Above TAF Decoded

TAF

KLAX 101740Z 101818 12020KT 4SM -RA OVC016

FM1920 30015G25KT 3SM SHRA OVC015 PROB40 2022 1/2SM TSRA OVC008CB

FM2300 27008KT 5SM -SHRA BKN020 OVC040 TEMP 0205 00000KT 1SM -RA FG

FM0800 22010KT 5SM -SHRA OVC020 BECMG 1214 20010KT P6SM NSW SKC

FM1920 30015G25KT 3SM SHRA OVC015 PROB40 2022 1/2SM TSRA OVC008CB

Wind of 300° at 15 knots
gusting to 25 knots

3 statute miles visibility

Moderate rain showers

Overcast (ceiling)

40% probability between
2000Z & 2200Z of 1/2 statute
mile visibility with thunderstorms
& rain with an overcast (ceiling)
of 800 foot AGL &
cumulonimbus clouds
at 1,500 feet AGL

13-16B

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Private Pilot Handbook

DECODED TERMINAL AERODROME WEATHER FORECAST (TAF)

TAF

KLAX 101740Z 101818 12020KT 4SM -RA OVC016
~~FM1920 30015G25KT 3SM SHRA OVC015 PROB40 2022 1/2SM TSRA OVC008CB~~
FM2300 27008KT 5SM -SHRA BKN020 OVC040 TEMP 0205 00000KT 1SM -RA FG
FM0800 22010KT 5SM -SHRA OVC020 BECMG 1214 20010KT P6SM NSW SKC

Above TAF Decoded

FM2300 27008KT 5SM -SHRA BKN020 OVC040 TEMP 0205 00000KT 1SM -RA FG

Letters FM (meaning From) indicate significant change in weather expected at 2300Z

Wind of 270° at 8 knots

5 statute miles visibility

Light rain showers

Broken clouds (ceiling) at 2,000 feet AGL & an overcast at 4,000 feet AGL

A temporary change between 0200Z & 0500Z is expected with calm winds and one statute mile visibility due to light rain & fog

13-16C

DECODED TERMINAL AERODROME WEATHER FORECAST (TAF)

TAF

KLAX 101740Z 101818 12020KT 4SM -RA OVC016

FM1920 30015G25KT 3SM SHRA OVC015 PROB40 2022 1/2SM TSRA OVC008CB

FM2300 27008KT 5SM -SHRA BKN020 OVC040 TEMP 0205 00000KT 1SM -RA FG

FM0800 VRB04KT 5SM -SHRA OVC020 BECMG 1214 20010KT P6SM NSW SKC

Above TAF Decoded

FM0800 VRB04KT 5SM -SHRA OVC020 BECMG 1214 20010KT P6SM NSW SKC

Letters FM indicate another significant change in weather expected at 0800Z

Wind variable in direction at 4 knots

5 statute miles visibility

Light rain showers

Overcast clouds (ceiling) at 2,000 feet AGL

Between 1200Z to 1400Z the weather is forecast to become: winds of 200 at 10 knots, plus 6 miles visibility and no significant weather & a sky that's clear

13-16D

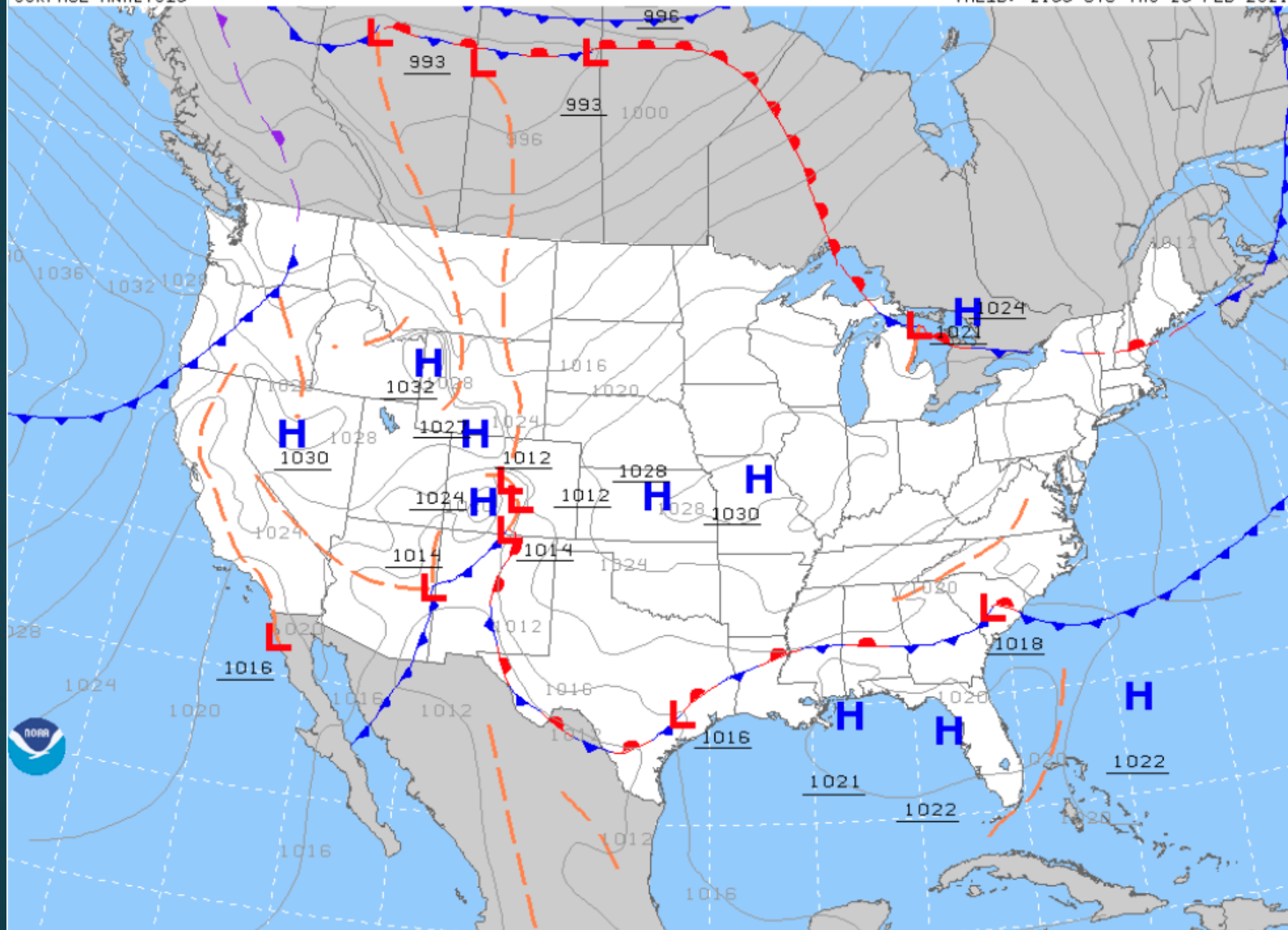
WPC Surface Prog Charts

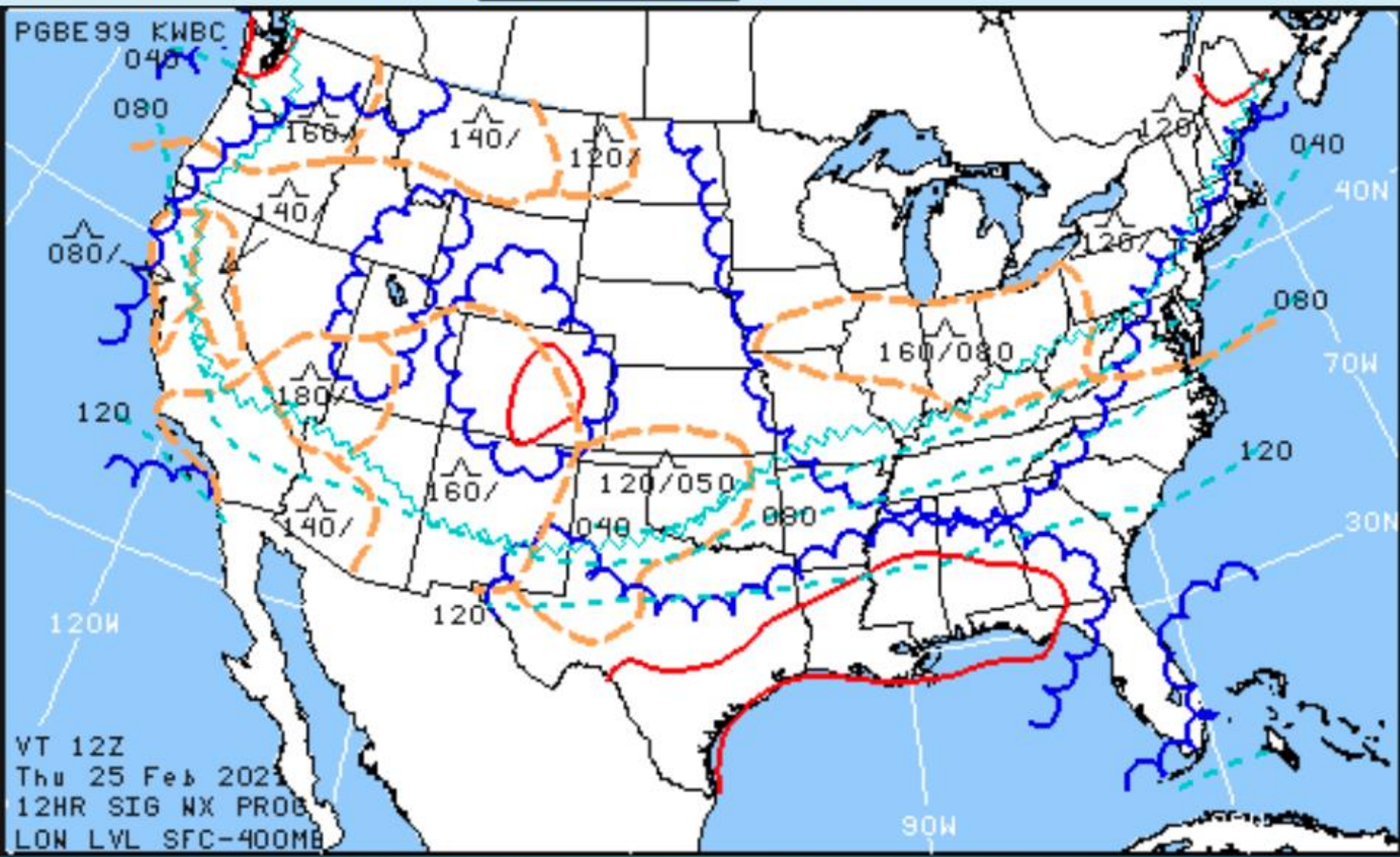
WPC Analysis

Time: 2100 UTC Thu 25 Feb 2021

SURFACE ANALYSIS

VALID: 2100 UTC THU 25 FEB 2021





PGBE99 KWBC
040
080

VT 12Z
Thu 25 Feb 2021
12HR SIG WX PROB
LOW LVL SFC-400MB

Flight planning only. See TAFs for specific terminal forecast.

ceiling less than 1000 ft and/or
visibility less than 3 miles

ceiling 1000-3000 ft inclusive
and/or visibility 3-5 miles incl

moderate or greater
turbulence

freezing level above mean sea level
freezing level at surface
TStorms imply possible svr or greater turb. svr icing and LLWS.

FAAK48 PAWU 291739

FA8H

ANCH FA 291315

AK SRN HLF EXCP SE AK...

.
AIRMETS VALID UNTIL 292115

CB IMPLY POSSIBLE SEV OR GREATER TURB SEV ICE LLWS AND IFR CONDS.
NON MSL HEIGHTS NOTED BY AGL OR CIG.

.
SYNOPSIS VALID UNTIL 300700

998MB LOW 140NM SE PAKH MOV SE THRU PD. ASSOC SFC TROF SERN KODIAK
ISLAND-SEWD ALSO MOV SE THRU PD. OCFNT WRN/CNTRL BERING SEA-PAAK MOV
E TO LIE NR A ST MATTHEW ISLAND-PAPB-SEGUAM LN BY 18Z AND A PASA-
PACZ-PADU LN BY END OF PD.

.
COOK INLET AND SUSITNA VLY AB...VALID UNTIL 300100

...CLOUDS/WX...

AIRMET IFRTIL 19Z N PANC OCNL CIG BLW 010/VIS BLW 3SM -SHSN BR.
IMPR...

AIRMET MT OBSCN PANC MTS OBSC IN CLDS/PCPN. IMPR...

N PANC SCT005 BKN025 OVC045 TOP 120 LYRD TO FL250 VIS 5SM -SN.
AFT 21Z ISOL -SN.

ELSW BKN050 BKN120 CI ABV.

OTLK VALID 300100-300700...TALKEETNA MTS MVFR CIG. ELSW VFR.

PASSES...LAKE CLARK...MERRILL...RAINY...VFR.

WINDY...IFR CIG/VIS SHSN. AFT 21Z MVFR CIG.

PORTAGE...MVFR CIG.

...TURB...

NIL SIG.

...ICE AND FZLVL...

AIRMET ICETIL 16Z N PAUO OCNL MOD ICEIC 020-120.

FZLVL SFC. WKN...

16Z TO 19Z N PATK ISOL MOD ICEIC 020-120.

Graphical Area Forecast



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2315 UTC Thu 25 Feb 2021

Forecast 09Z 10Z 11Z 12Z 13Z 14Z 15Z 16Z 17Z 18Z 19Z 20Z 21Z 22Z **Now**



T	26	966	ALTM	Ft Cat:	●	●	●	●	Weather Symbols	Wind	☉ Calm	↘ 15kt	↘ 60kt	↘ 25G30kt				
VIS	0.5	17	CIG	SKY Cov	○	◐	◑	◒										
Wx	19	KRFD	Id	<FL180	○	◐	◑	◒										
DP	—	—	Wind Gust	SKC	FEW	SCT	BKN	OVC										
SIGMETs	Convective	Conv	Thunderstorm	TS	Trop Cyclone	TC	Blowing Dust/Sand	IFR	Volcanic Ash	VA	Turb	Turb	Icing	Ice				
Warnings	Tornado	TO	Severe Thunderstorm	TS	Winter Storm	WS	Blizzard	BZ	Ice Storm	IS	Lake Effect Snow	LS	Storm	ST	Gale	GA	High Wind	HW



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Level: Low High

(Extracted from FBUS31 KWNO 251955)

FD1US1

DATA BASED ON 251800Z

VALID 260000Z FOR USE 2000-0300Z. TEMPS NEG ABV 24000

FT	3000	6000	9000	12000	18000	24000	30000	34000	39000
BDL	3029	3035-10	2942-16	2952-22	2870-34	7802-40	771746	772545	772444
BGR	3033	3140-16	3044-21	3045-26	2949-36	2852-45	277548	279144	279343
CAR	3035	3137-20	3138-23	3037-28	2939-38	2944-46	275949	276947	277344
PWM	3033	3045-13	3050-19	3054-25	2951-36	2857-43	278947	770445	771044
EMI	3016	2920-06	2731-12	2857-15	2885-25	7815-35	774845	774851	774047
ACK	3030	3137-08	2944-14	2852-20	2892-31	7716-40	773143	773444	772542
BOS	2932	3140-11	2945-16	2954-22	2863-36	2886-40	770545	771845	771943
BML	2930	3046-16	3054-20	3056-26	2950-36	2849-43	276849	278847	279545
ACY	3115	3020-05	2829-12	2857-15	2889-25	7815-35	774945	774450	774645
ALB	2930	3034-12	2940-18	2950-23	2861-36	2883-41	770847	771646	772045
BUF	2619	2827-12	2836-18	2848-24	2856-35	2883-43	781048	771148	771447
JFK	3018	3028-08	2940-13	2850-20	2796-27	7826-38	774246	773748	773345
PLB	2832	3035-16	3043-21	2950-27	2953-37	2857-45	277449	278647	279145
SYR	2823	2929-13	2938-19	2849-24	2861-37	2878-43	770247	770847	771446
CLE	2618	2924-09	2932-14	2841-21	2785-28	7718-39	774149	773351	771849
CMH	3012	3019-07	2932-11	2752-15	2775-26	7713-36	774347	774652	762350
CVG	3408	3114-05	2834-07	2642-14	2777-25	7713-33	774846	775653	772150
AGC	2811	2820-07	2832-13	2753-17	2883-26	7814-37	774447	774451	762748
AVP	3114	2922-10	2941-15	2851-21	7702-28	7825-39	783946	772947	772546
PSB		2924-08	2835-14	2845-20	2789-28	7822-38	774447	773749	772747
ORF	3608	3021+00	2839-02	2846-09	2877-19	7803-29	772443	773750	765146
RIC	9900	2716-02	2839-04	2744-10	2879-21	7807-30	773243	773751	765147
ROA	3211	2718+00	2731-04	2743-11	2878-21	7709-30	773143	773751	764748
CRW	3206	2818-03	2834-06	2742-13	2778-23	7709-32	774344	774552	763350
EKN		2716-05	2833-09	2750-13	2877-24	7716-33	774645	775252	763549



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BOS	2932	3140-11	2945-16	2954-22	2863-36	2886-40	770545	771845	771943
BML	2930	3046-16	3054-20	3056-26	2950-36	2849-43	276849	278847	279545
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FD1US1

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VALID 260000Z FOR USE 2000-0300Z. TEMPS NEG ABV 24000

FT 3000 6000 9000 12000 15000 18000 21000 24000 27000

BDL 3029 3035-10 2942-16 2952-21 2962-26 2972-31 2982-36 2992-41 3002-46

BGR 3033 3140-16 3044-21 3045-26 3046-31 3047-36 3048-41 3049-46 3050-51

CAR 3035 3137-20 3138-23 3037-28 3038-33 3039-38 3040-43 3041-48 3042-53

PWM 3033 3045-13 3050-19 3054-25 3058-31 3062-37 3066-43 3070-49 3074-55

EMI 3016 2920-06 2731-12 2857-15 2885-25 7815-35 774845 774851 774047

ACK 3030 3137-08 2944-14 2852-20 2892-31 7716-40 773143 773444 772542

BOS 2932 3140-11 2945-16 2954-22 2863-36 2886-40 770545 771845 771943

BML 2930 3046-16 3054-20 3056-26 2950-36 2849-43 276849 278847 279545

ACY 3115 3020-05 2829-12 2857-15 2889-25 7815-35 774945 774450 774645

ALB 2930 3034-12 2940-18 2950-23 2861-36 2883-41 770847 771646 772045

BUF 2619 2827-12 2836-18 2848-24 2856-35 2883-43 781048 771148 771447

JFK 3018 3028-08 2940-13 2850-20 2796-27 7826-38 774246 773748 773345

PLB 2832 3035-16 3043-21 2950-27 2953-37 2857-45 277449 278647 279145

SYR 2823 2929-13 2938-19 2849-24 2861-37 2878-43 770247 770847 771446

CLE 2618 2924-09 2932-14 2841-21 2785-28 7718-39 774149 773351 771849

CMH 3012 3019-07 2932-11 2752-15 2775-26 7713-36 774347 774652 762350

CVG 3408 3114-05 2834-07 2642-14 2777-25 7713-33 774846 775653 772150

AGC 2811 2820-07 2832-13 2753-17 2883-26 7814-37 774447 774451 762748

AVP 3114 2922-10 2941-15 2851-21 7702-28 7825-39 783946 772947 772546

PSB 2924-08 2835-14 2845-20 2789-28 7822-38 774447 773749 772747

ORF 3608 3021+00 2839-02 2846-09 2877-19 7803-29 772443 773750 765146

RIC 9900 2716-02 2839-04 2744-10 2879-21 7807-30 773243 773751 765147

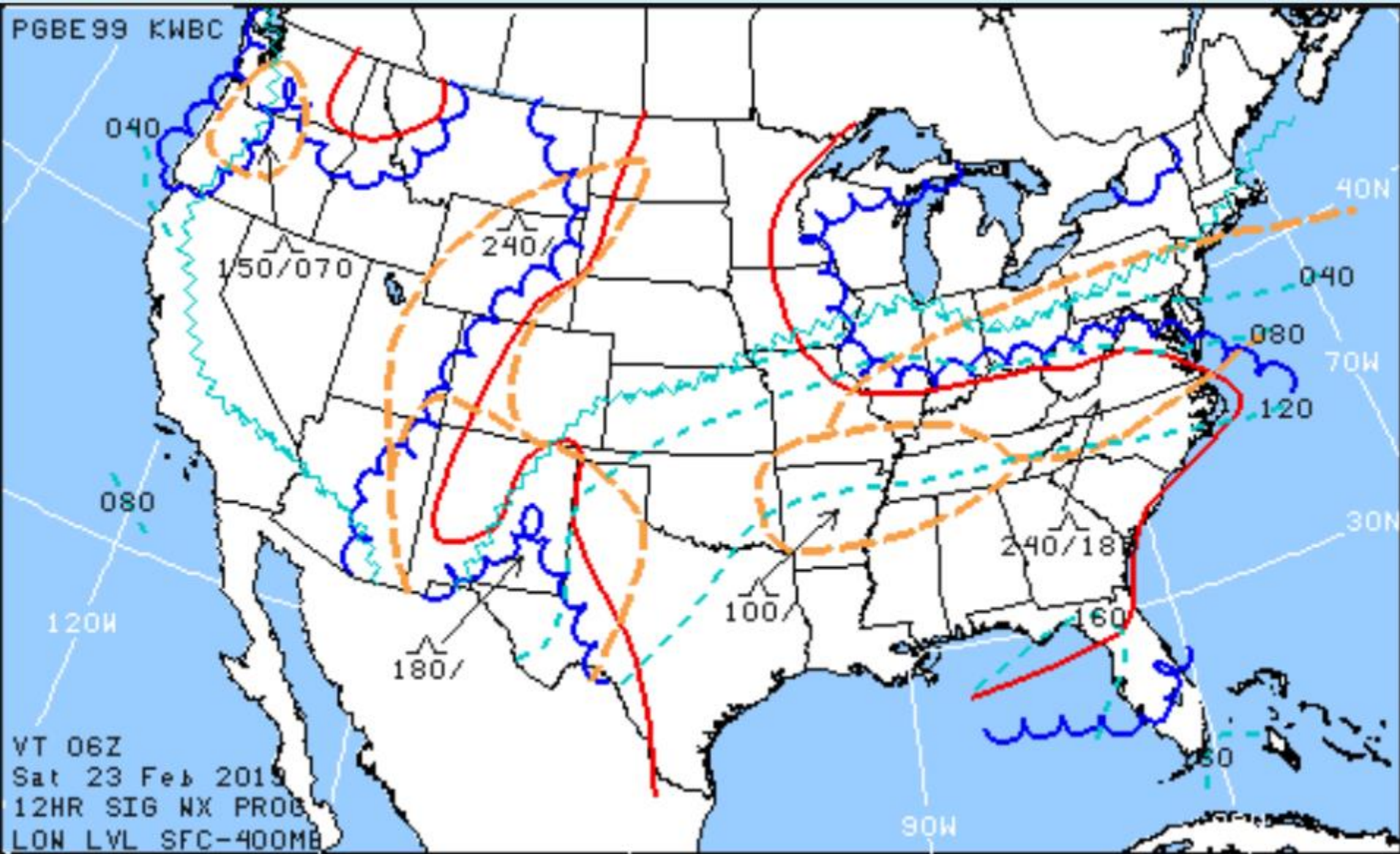
ROA 3211 2718+00 2731-04 2743-11 2878-21 7709-30 773143 773751 764748

CRW 3206 2818-03 2834-06 2742-13 2778-23 7709-32 774344 774552 763350

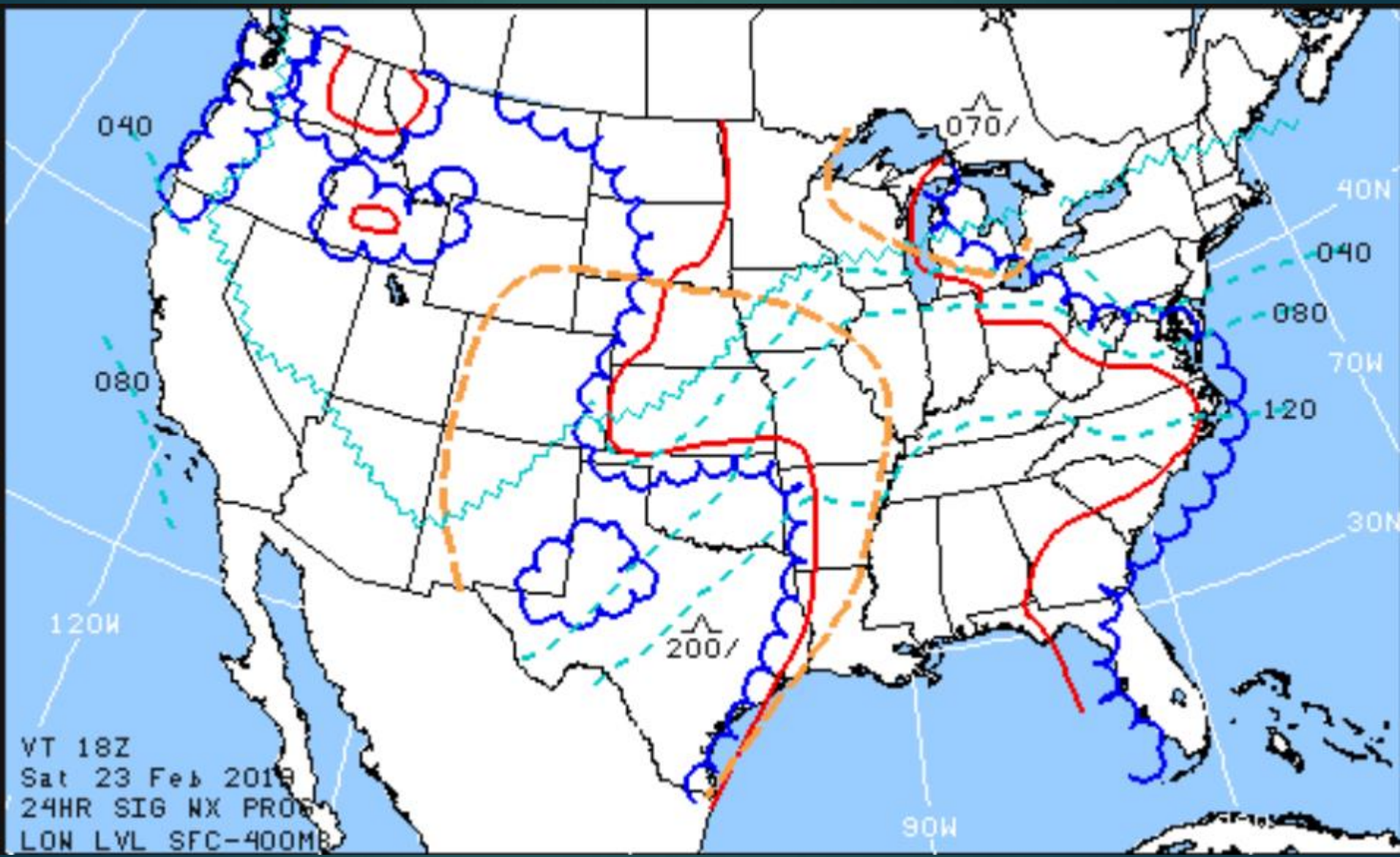
EKN 2716-05 2833-09 2750-13 2877-24 7716-33 774645 775252 763549

If the wind speed is forecast to be from 100 to 199 kt., the forecaster will add 50 to the wind direction and subtract 100 from the wind speed. To decode, you must subtract 50 from the wind direction and add 100 to the wind speed.

Low Level Prog Chart – 12H



Low Level Prog Chart – 24H



- **AIRMETs (Airmen's Meteorological Information)**
- Description of weather phenomena that may affect aircraft safety.
- Compared to SIGMETs, AIRMETs cover less severe weather
 - moderate turbulence and icing
 - sustained surface winds of 30 knots or more
 - restricted visibility over an area at least 3000 square miles.

AIRMETs (Airmen's Meteorological Information)

- AIRMET SIERRA (mountain obscuration or IFR)
 - ceilings less than 1000 feet and/or
 - visibility less than 3 miles
 - affecting over 50% of the area at one time
 - extensive mountain obscuration
- AIRMET TANGO (turbulence)
 - moderate turbulence
 - sustained surface winds of 30 knots or greater
 - non convective low-level wind shear.
- AIRMET ZULU (icing)
 - Moderate icing and provides freezing level heights

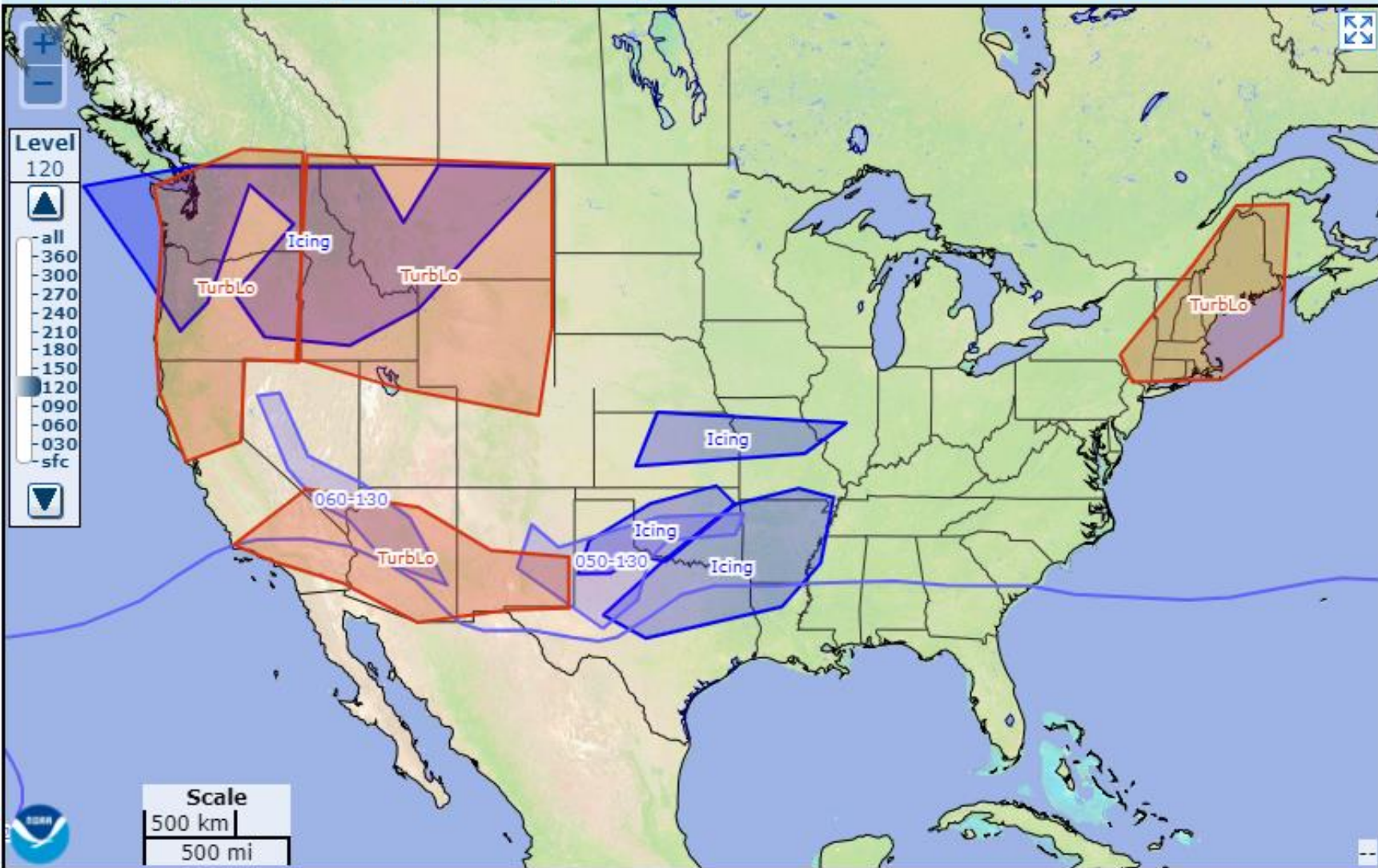
Graphical AIRMETs

Overlays View Configure

+3hr 0000 UTC Fri 26 Feb 2021

Types: TurbHi TurbLo LLWS SfcWind Icing Frz IFR MtnOb

Valid Time: ◀ ▶ 210000Z 03Z 06Z 09Z



SIGMETs (Airmen's Meteorological Information):

Weather advisories concerning safety of all aircraft

- Convective
 - embedded thunderstorms
 - line of thunderstorms
 - thunderstorms level 4 or higher
 - surface winds > 49 knots
 - hail \geq 3/4 inches
 - Tornadoes
- Non-Convective (turbulence, icing, etc)

SigMets

AIRMETs/SIGMETs

[SIGMET Home](#) [Plot](#) [Data](#)

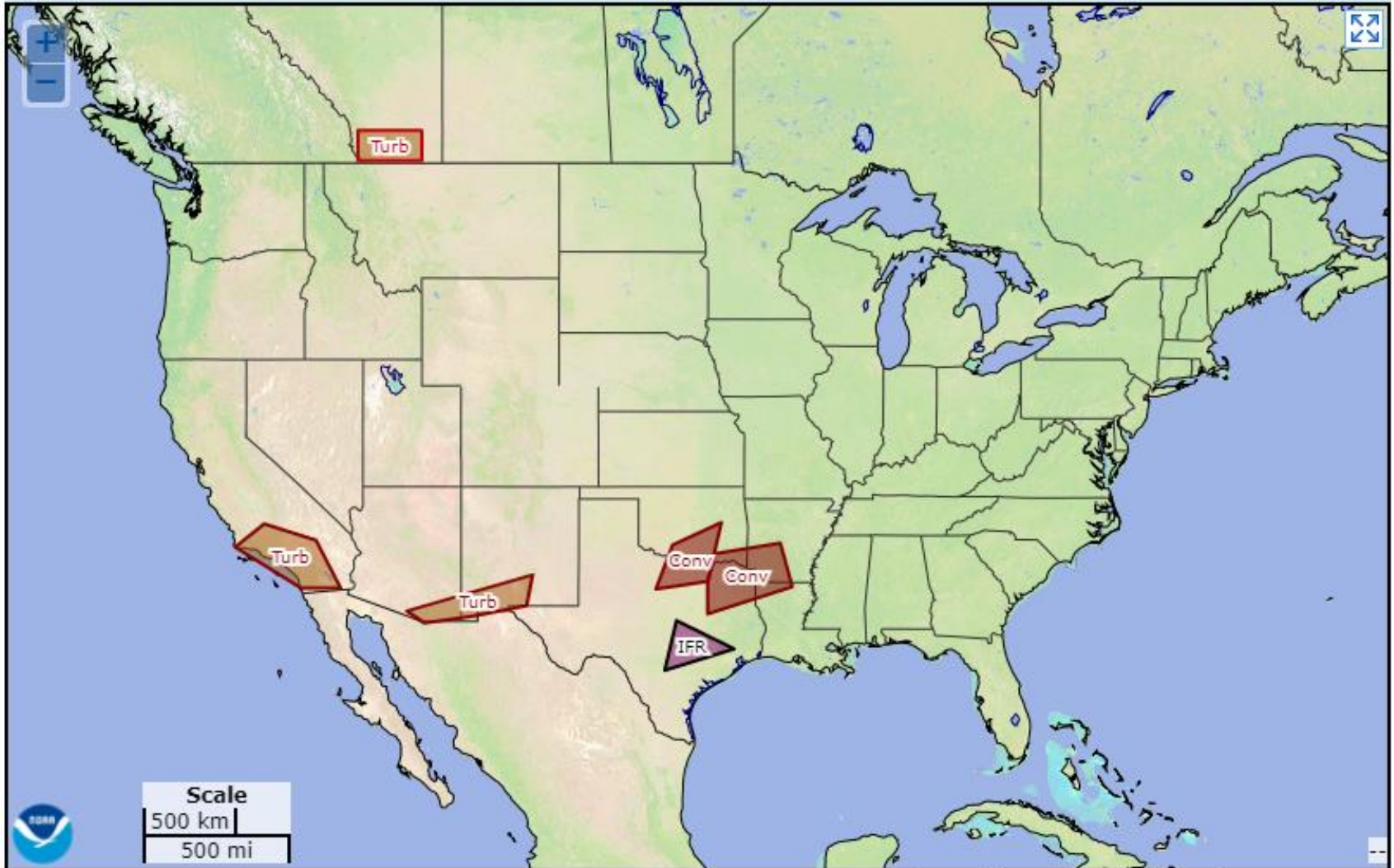
Weather

Overlays

View

Configure

2341 UTC Thu 25 Feb 2021



SIGMET **TS** **Conv** **Trop** **Turb** **Ice** **VA**

CWA **TS** **Turb** **Ice** **IFR**



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METARs

TAFs

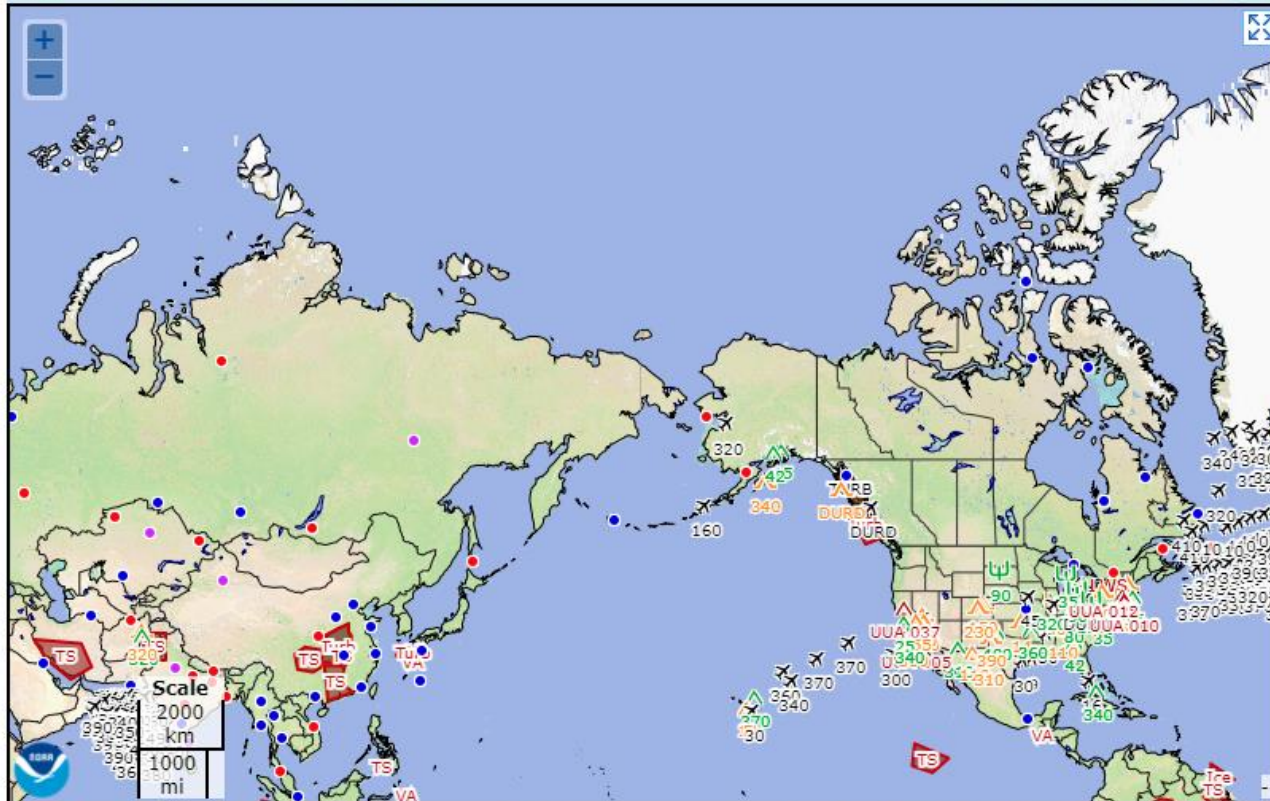
AIR/PIREPs














SIGMETs








G-AIRMETS

Data Overlay View Configure

2340 UTC Wed 24 Feb 2021



Flt Cat: ● MVFR ● IFR ● LIFR SIGMET  CWA  GAIRMET           

PIREP Turb:  NIL  LGT  MOD  SEV PIREP Ice:  NIL  LGT  MOD  SEV PIREP Other: 

Disclaimer: International SIGMET locations approximated. Please refer to SIGMET text for full details

Interactive Maps: On Off


Turns off interactive maps on main pages and adds a link to the interactive maps on a secondary page. Turning off maps is recommended for slow browsers and network connections.

Featured Capabilities

New Briefing



Interactive Map




Automated Voice Service







SMS Text Message Service



 Latest Features & Enhancements

Resources

-  Service Provider Integration
-  How-To Videos
-  Pilot Tip Cards
-  Phone Numbers & Quick Steps

News & Announcements

February 8, 2021

FAA GA Survey Now Open

The General Aviation (GA) Survey is now open at <https://www.surveygizmo.com/s3/4309962/>. This FAA survey is being administered by CFI Group, an independent third-party research group. This brief survey asks about your satisfaction with the 1800wxbrief.com website as well as ways that we can improve our service to you. Your answers will remain anonymous and will be combined with those from other respondents for research and evaluation purposes only.

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December 9, 2020

To Go or Not To Go

Evaluate departure time detail is now available!



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Upcoming Events

There are no upcoming events.