



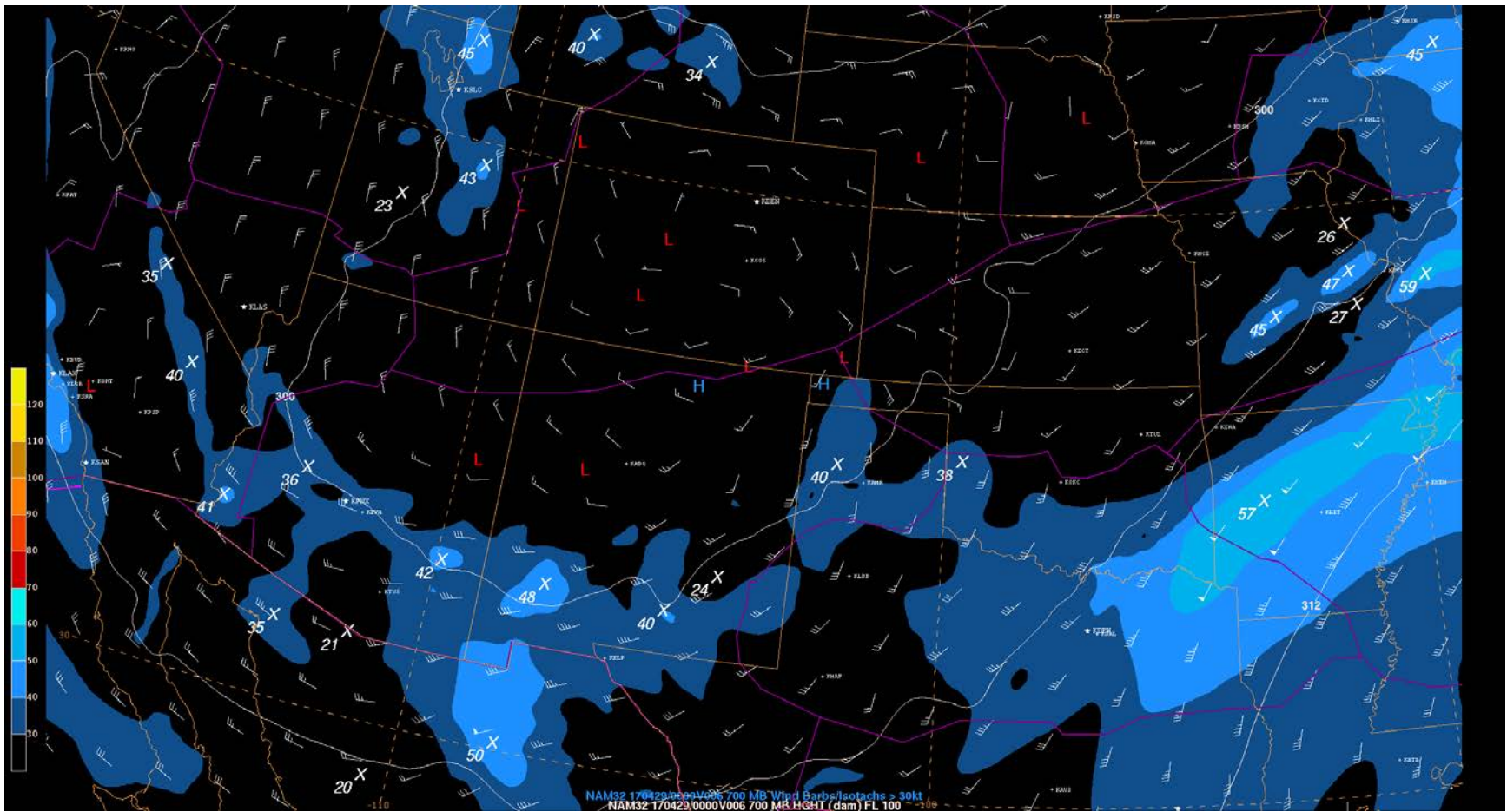
## National Transportation Safety Board

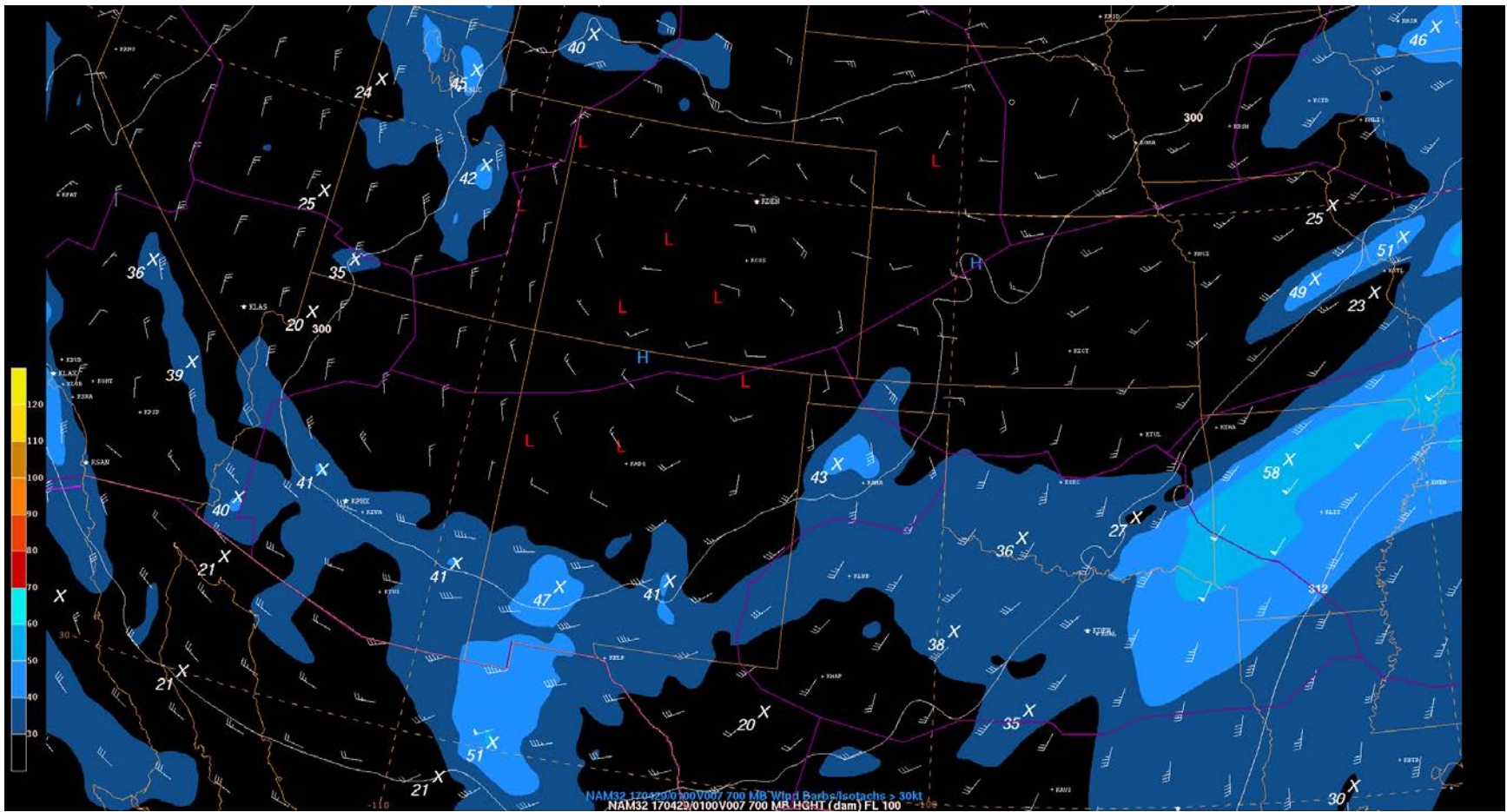
Office of Aviation Safety  
Washington, D.C. 20594-2000  
October 4, 2017

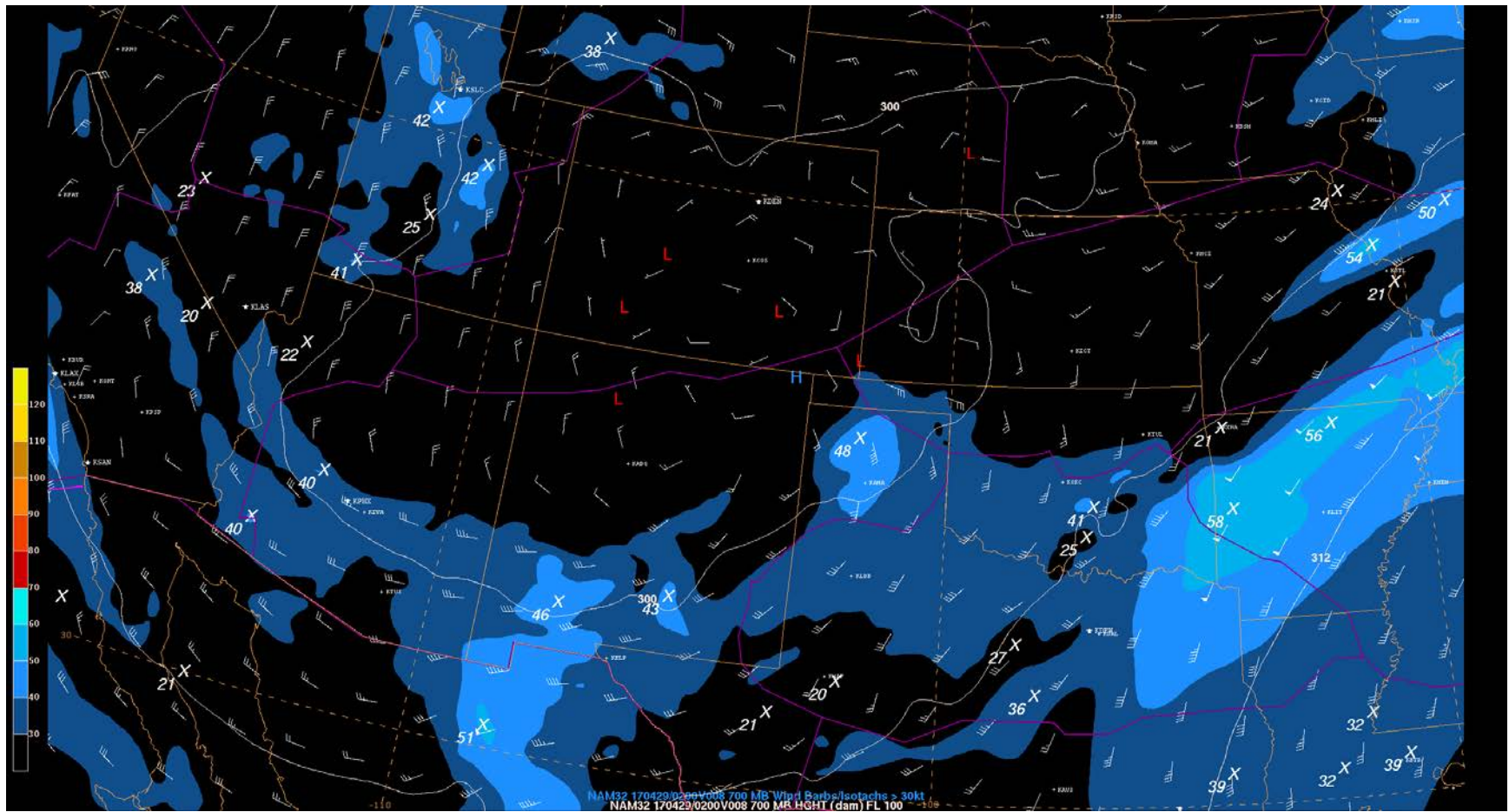
**ATTACHMENT 9 to the METEOROLOGY FACTUAL REPORT**  
**CEN17FA168**

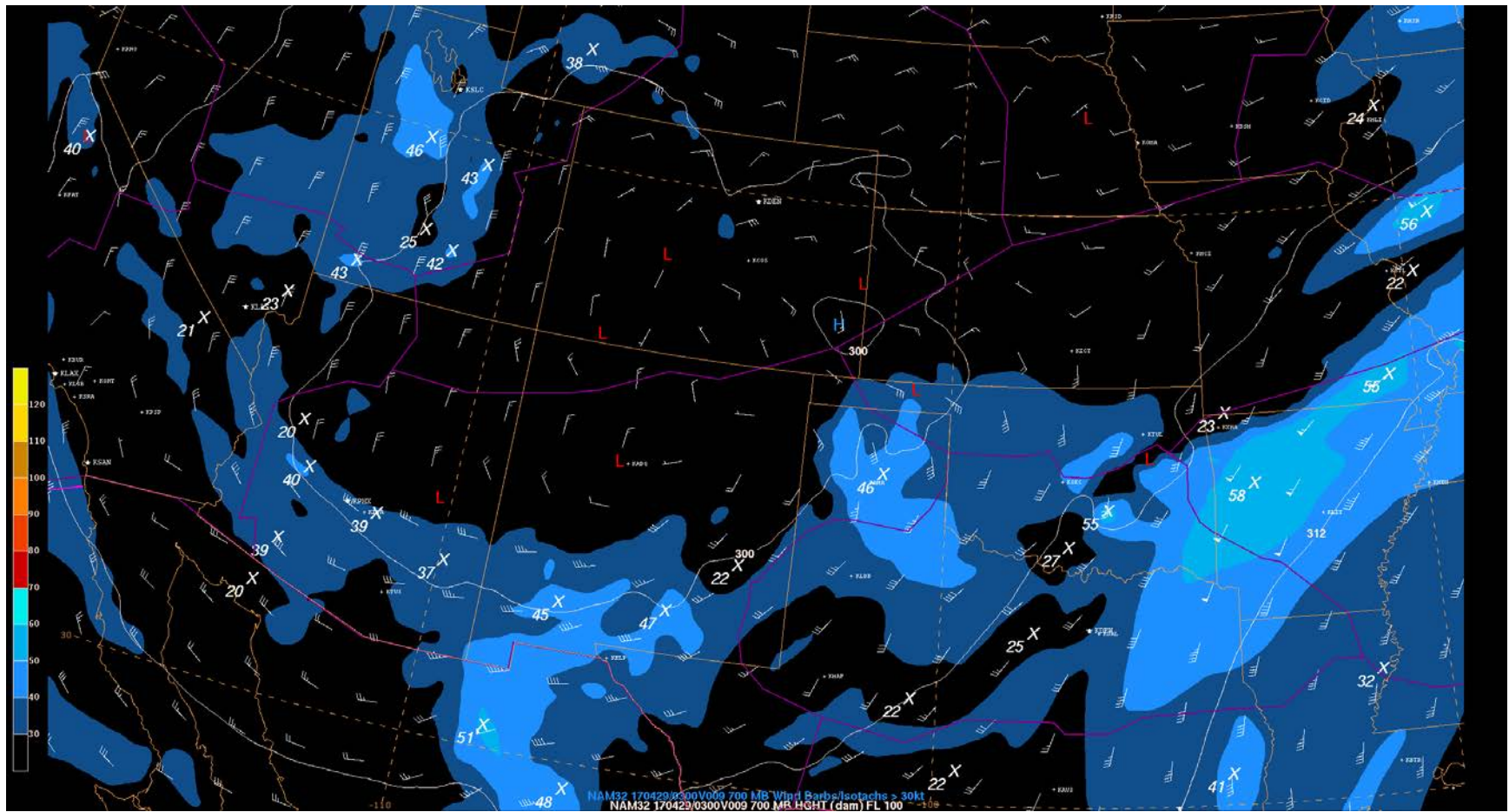
Screenshots of meteorological guidance for turbulence on the night of the accident and pertinent to the accident region available to AWC forecasters prior to the issuance of the 2145 CDT AIRMETS.

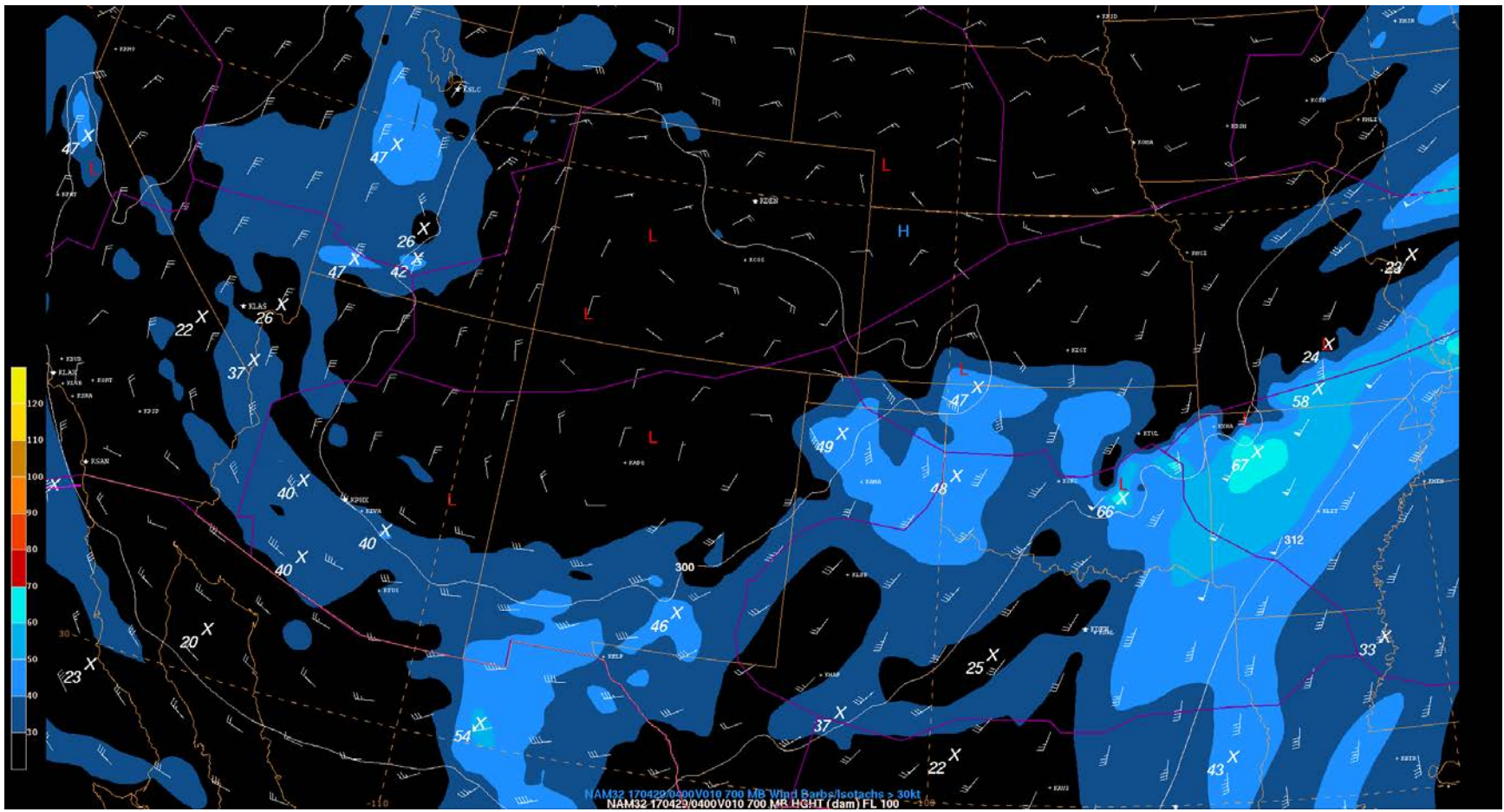
*Submitted by: Mike Richards*  
*NTSB, AS-30*

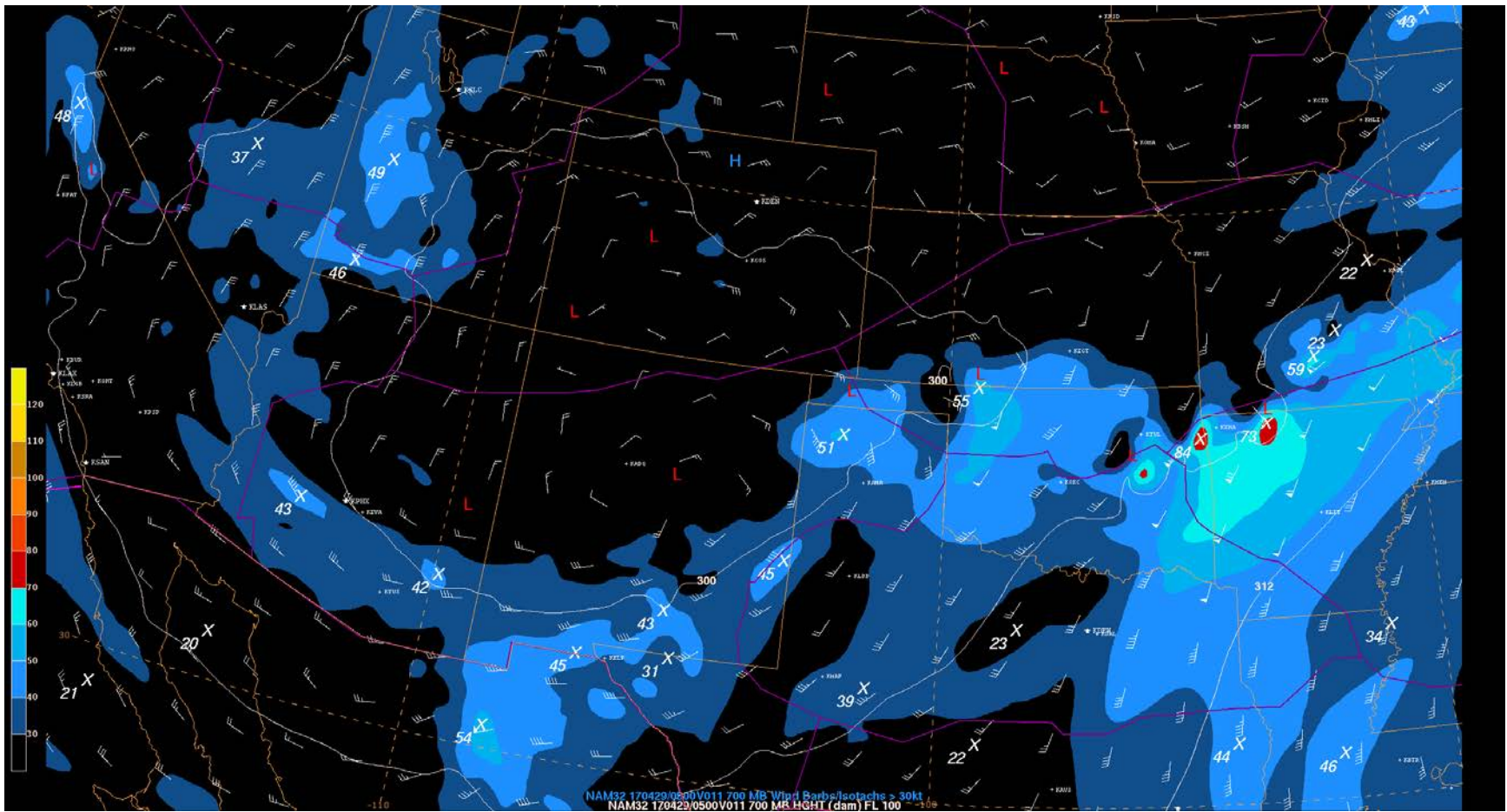


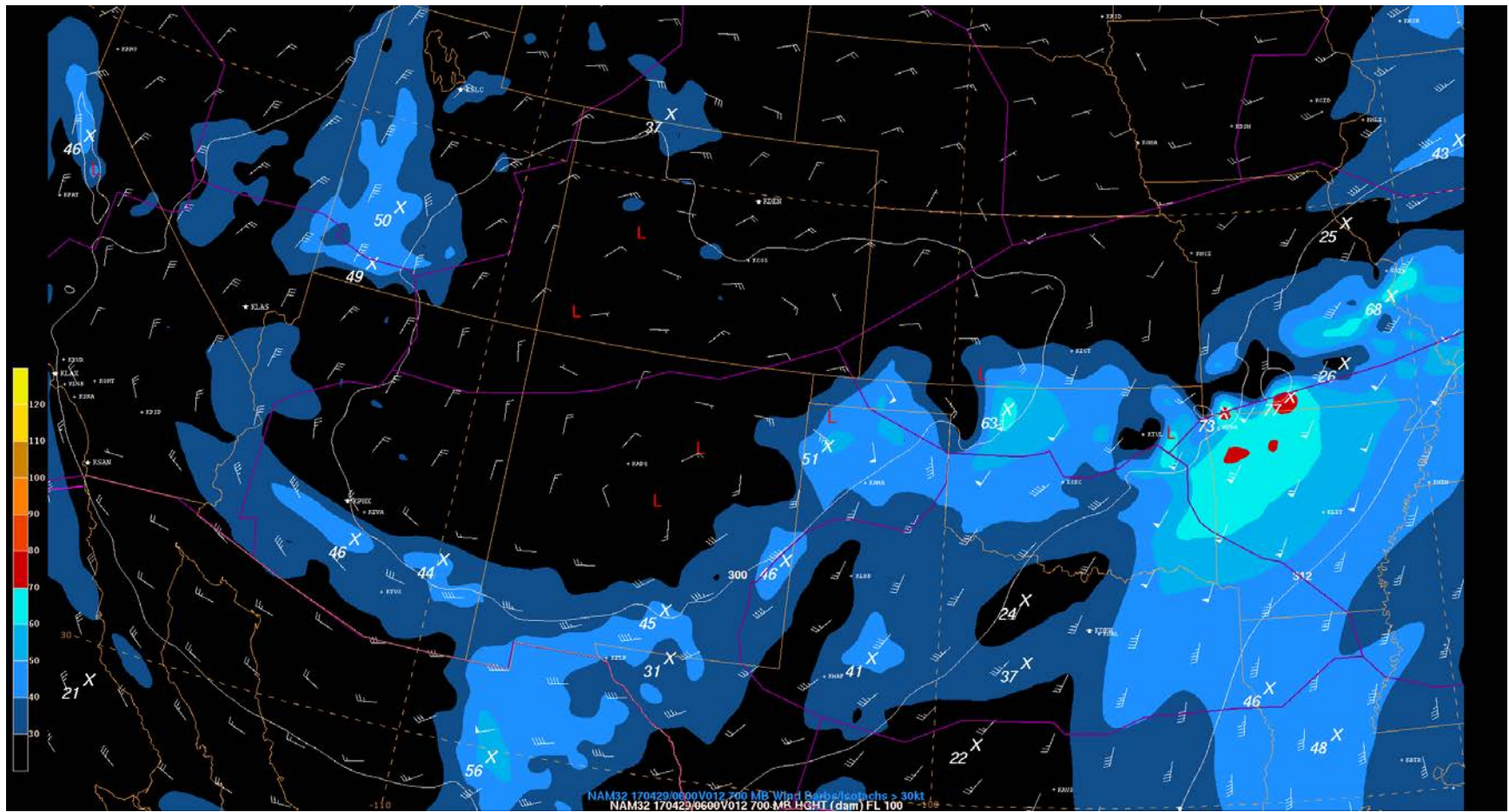




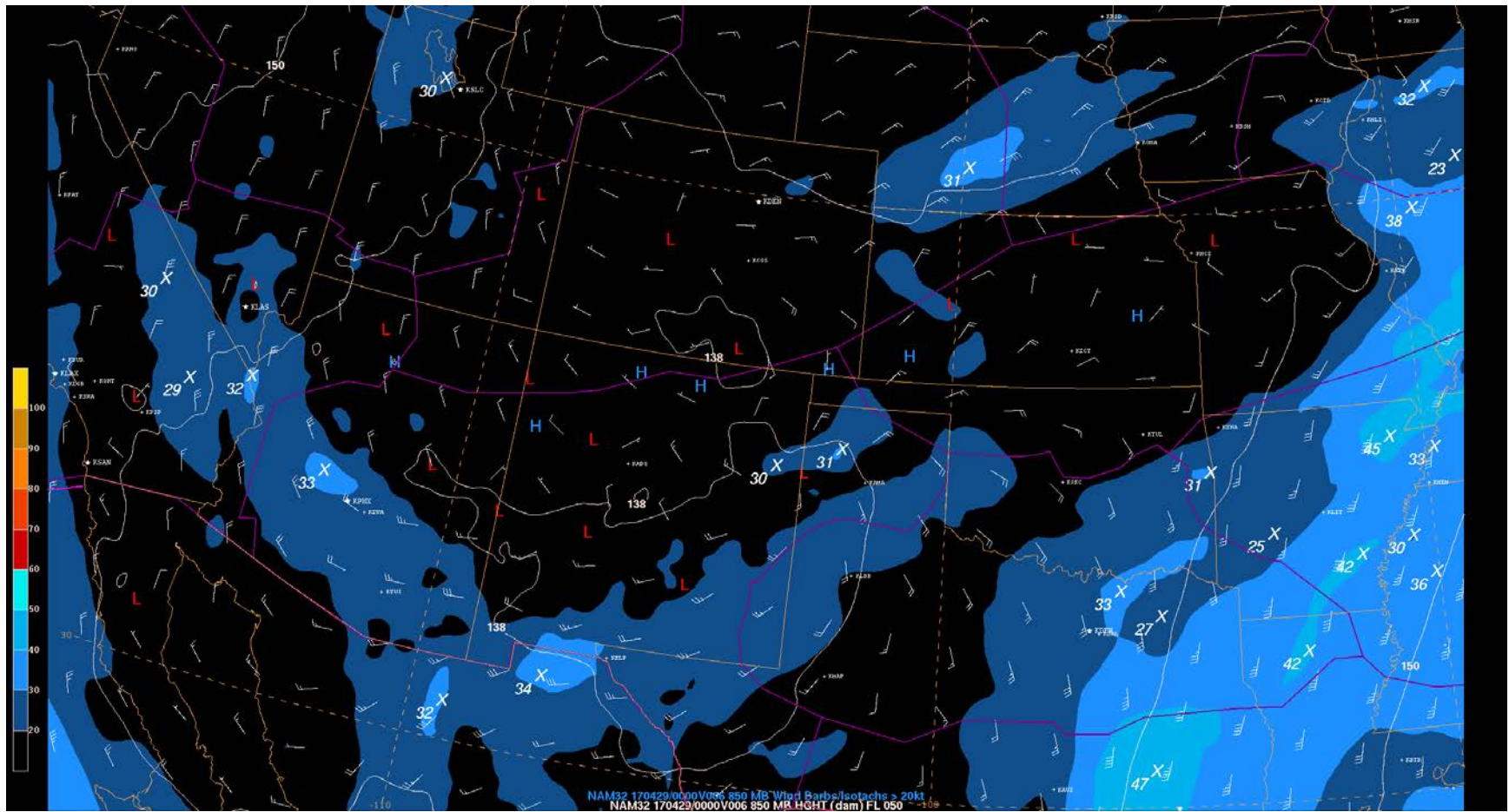


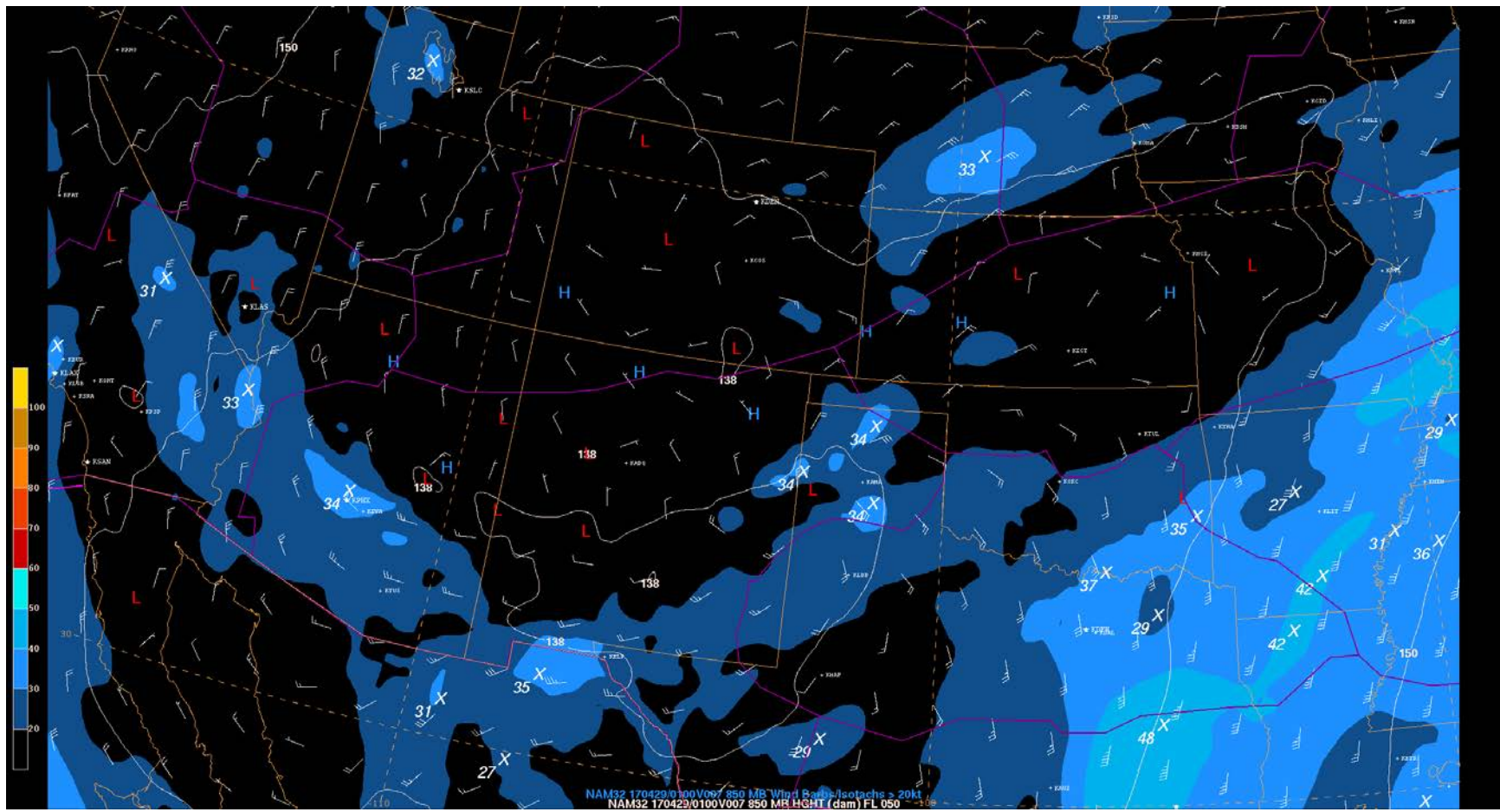


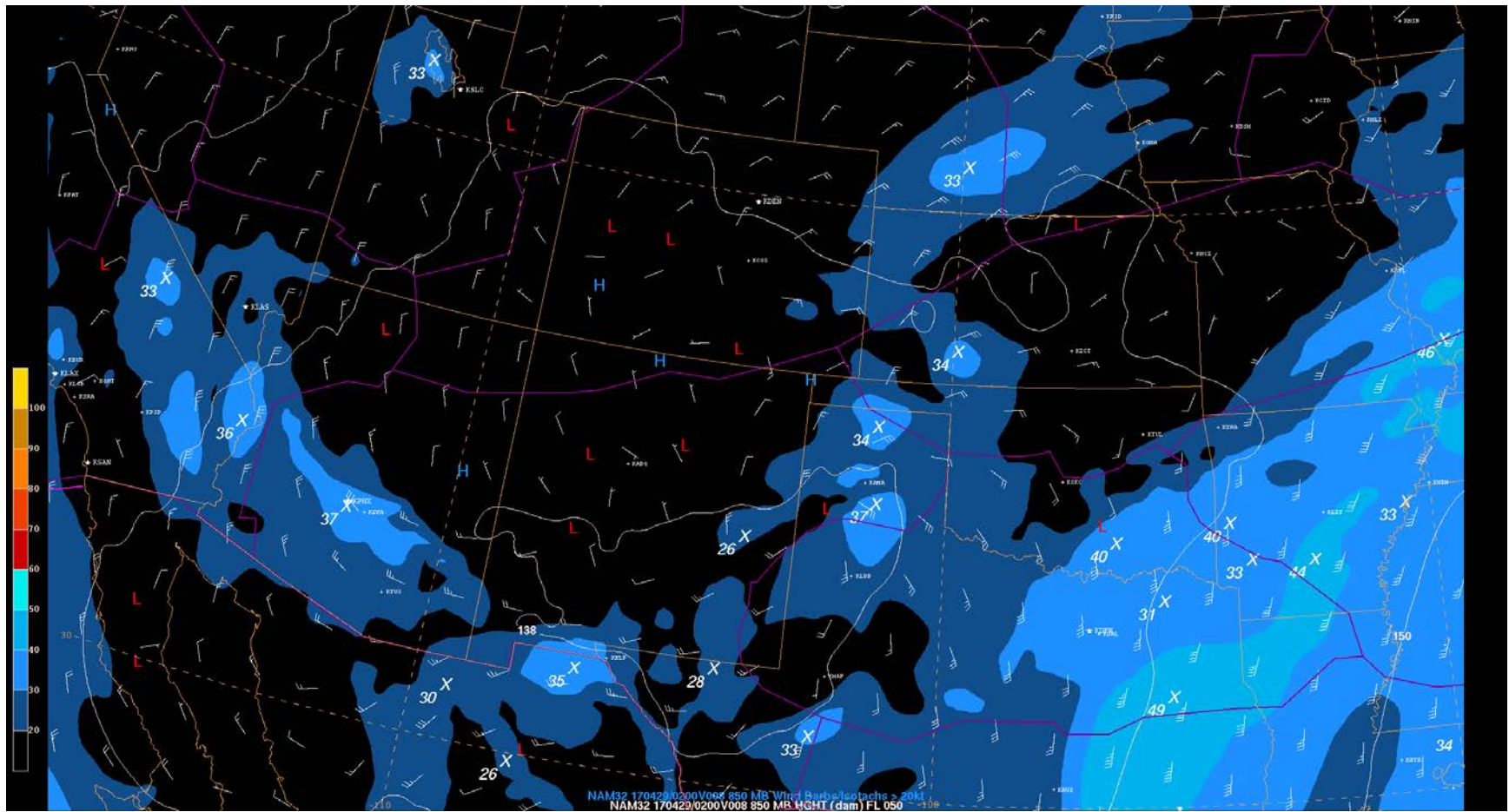


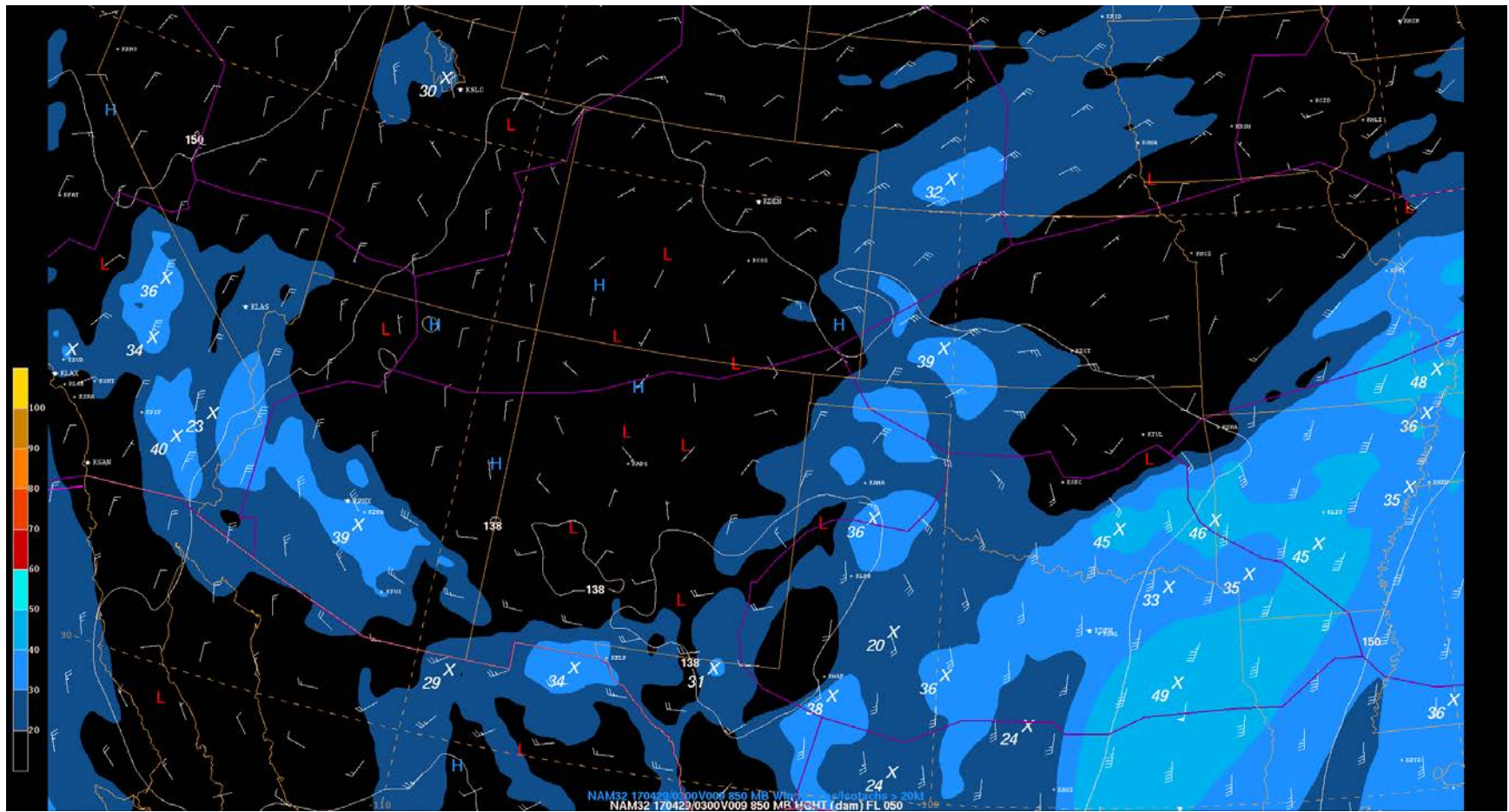


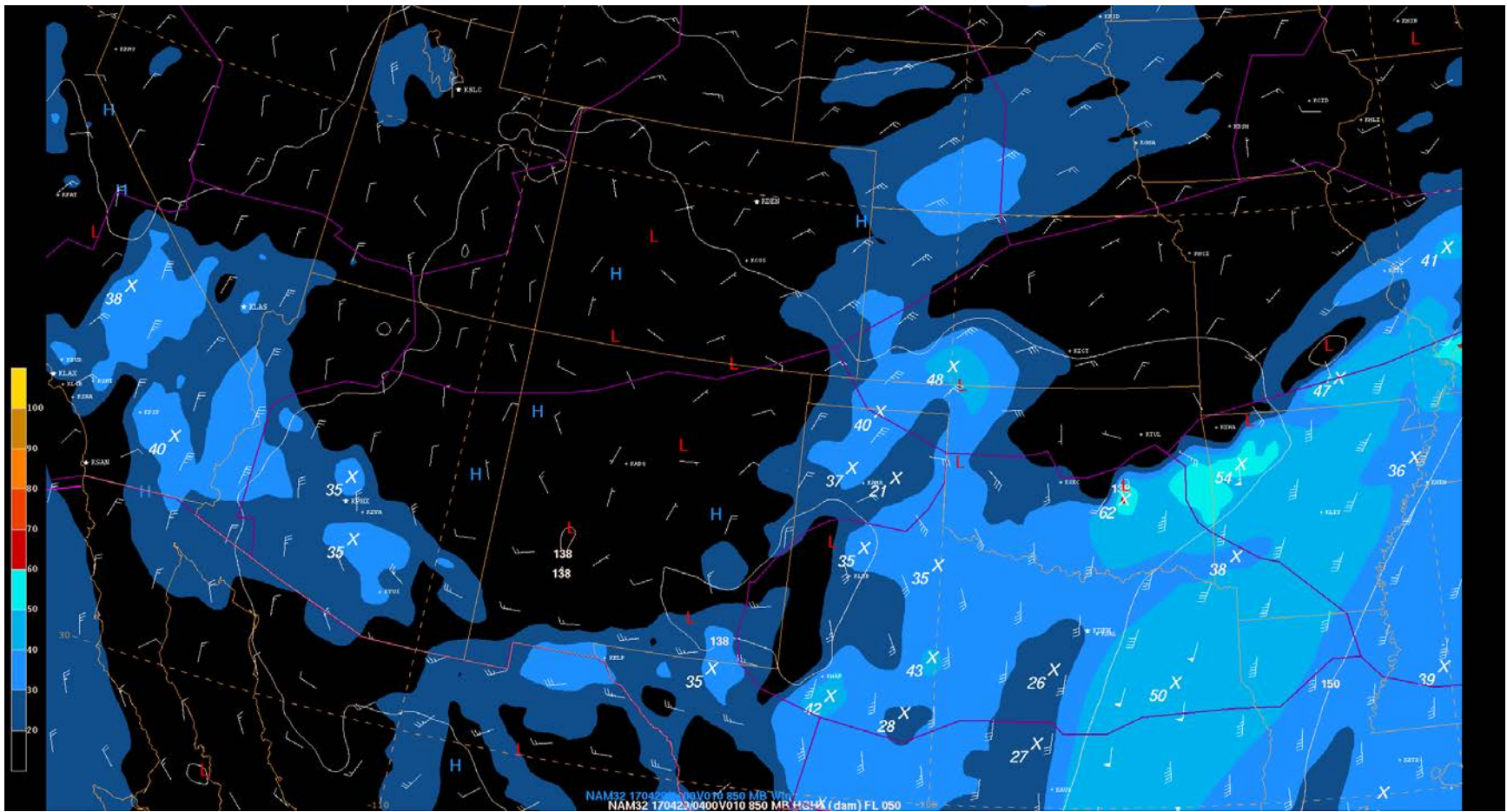


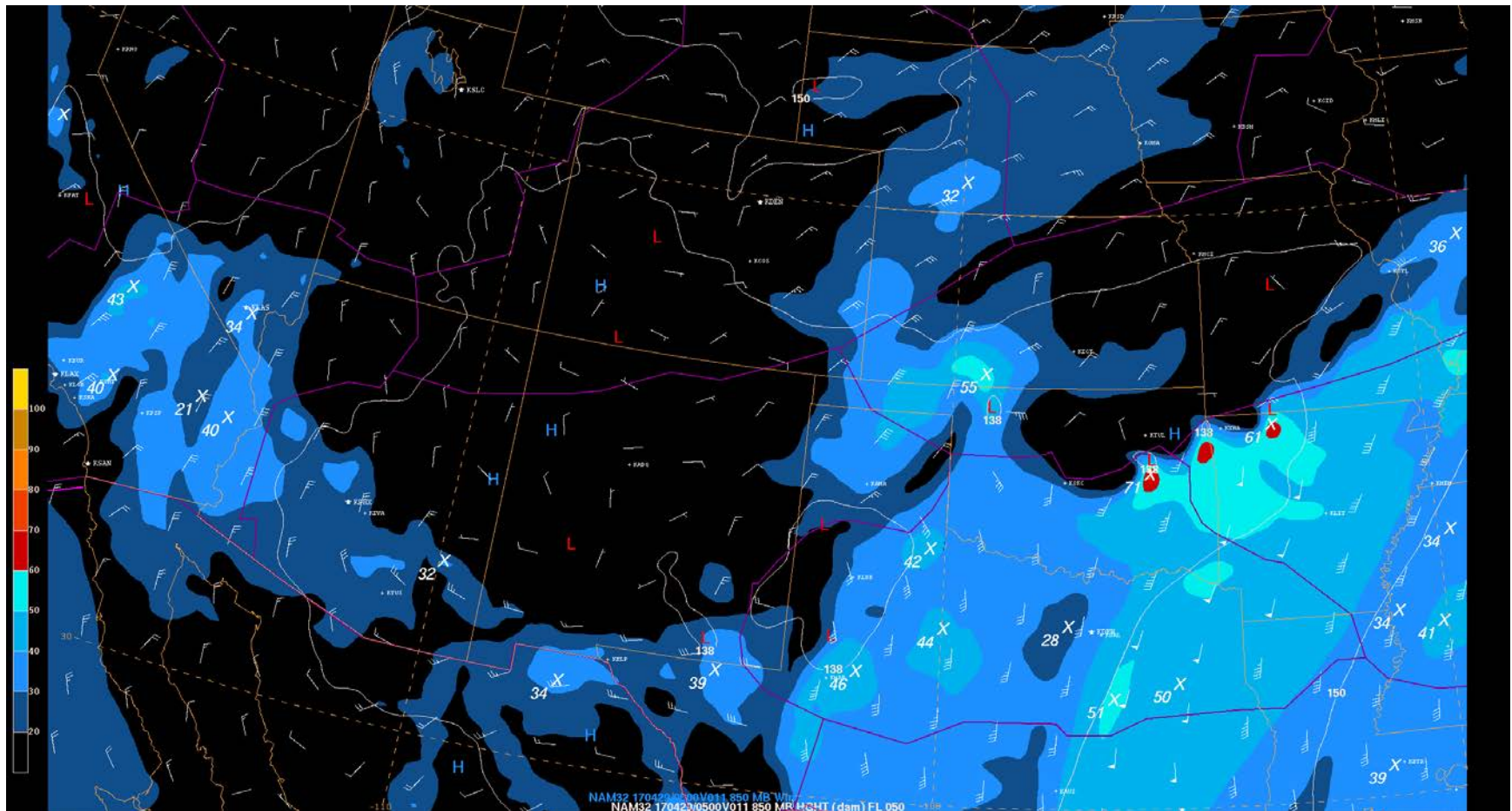


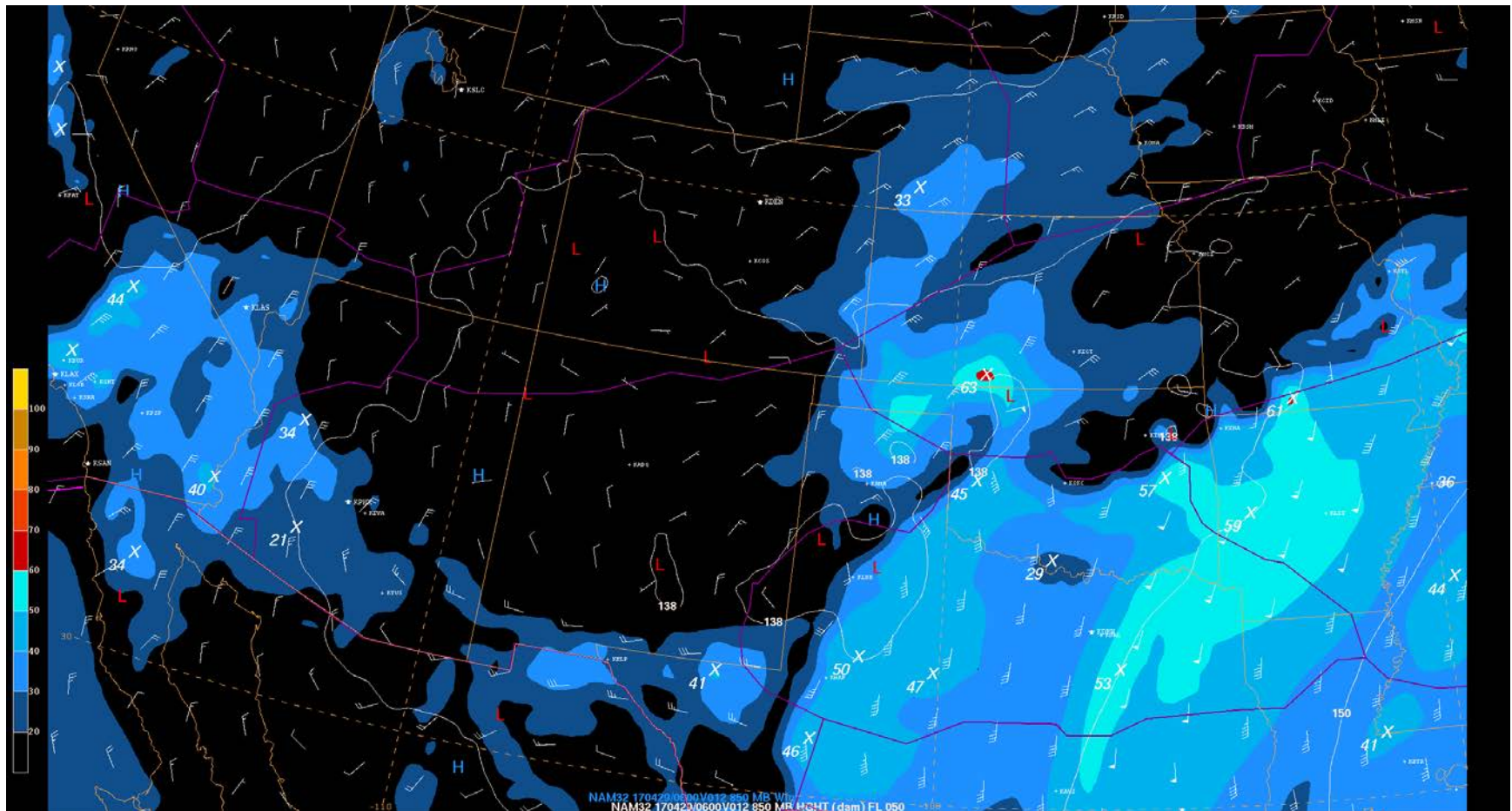


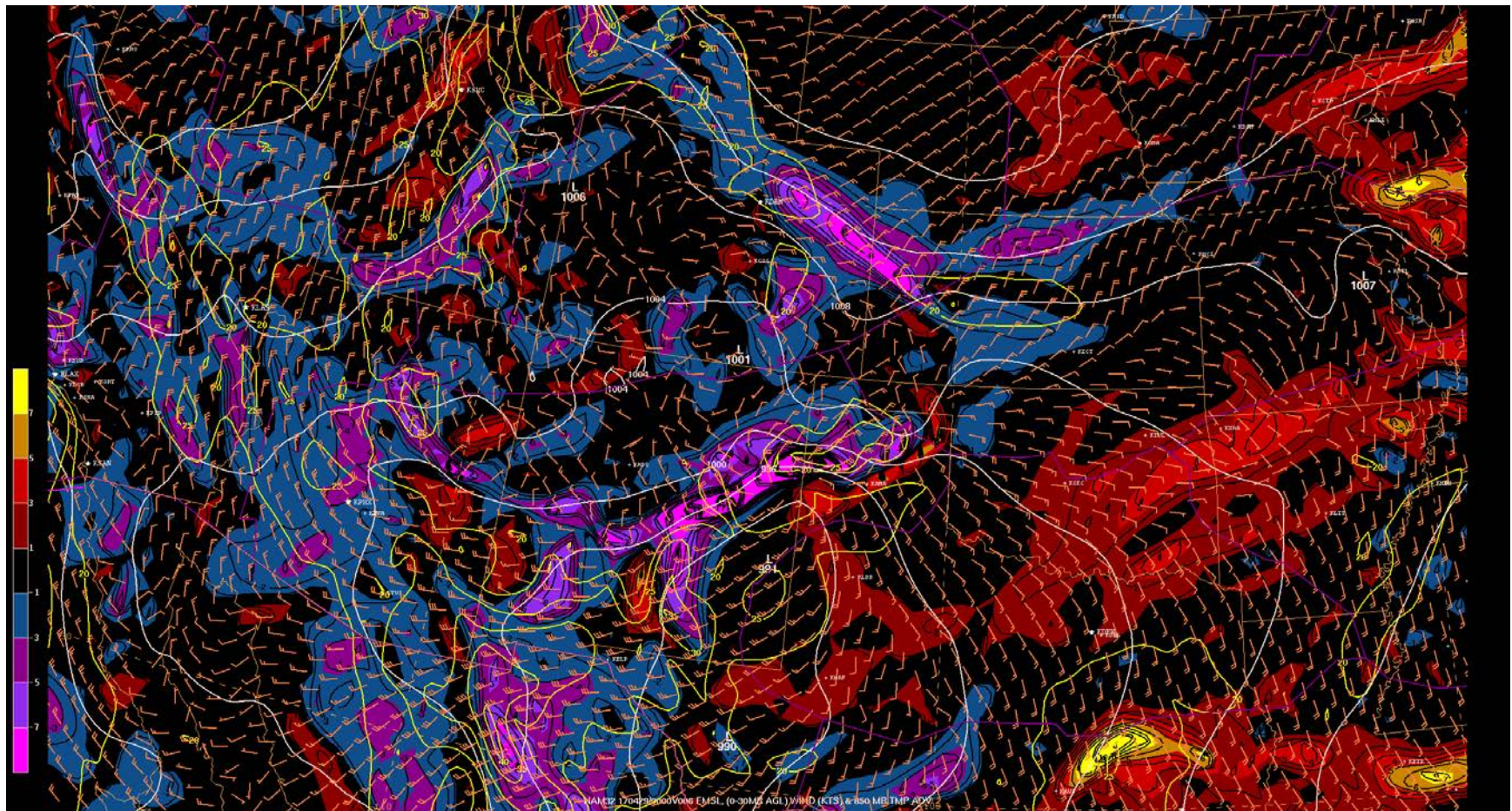






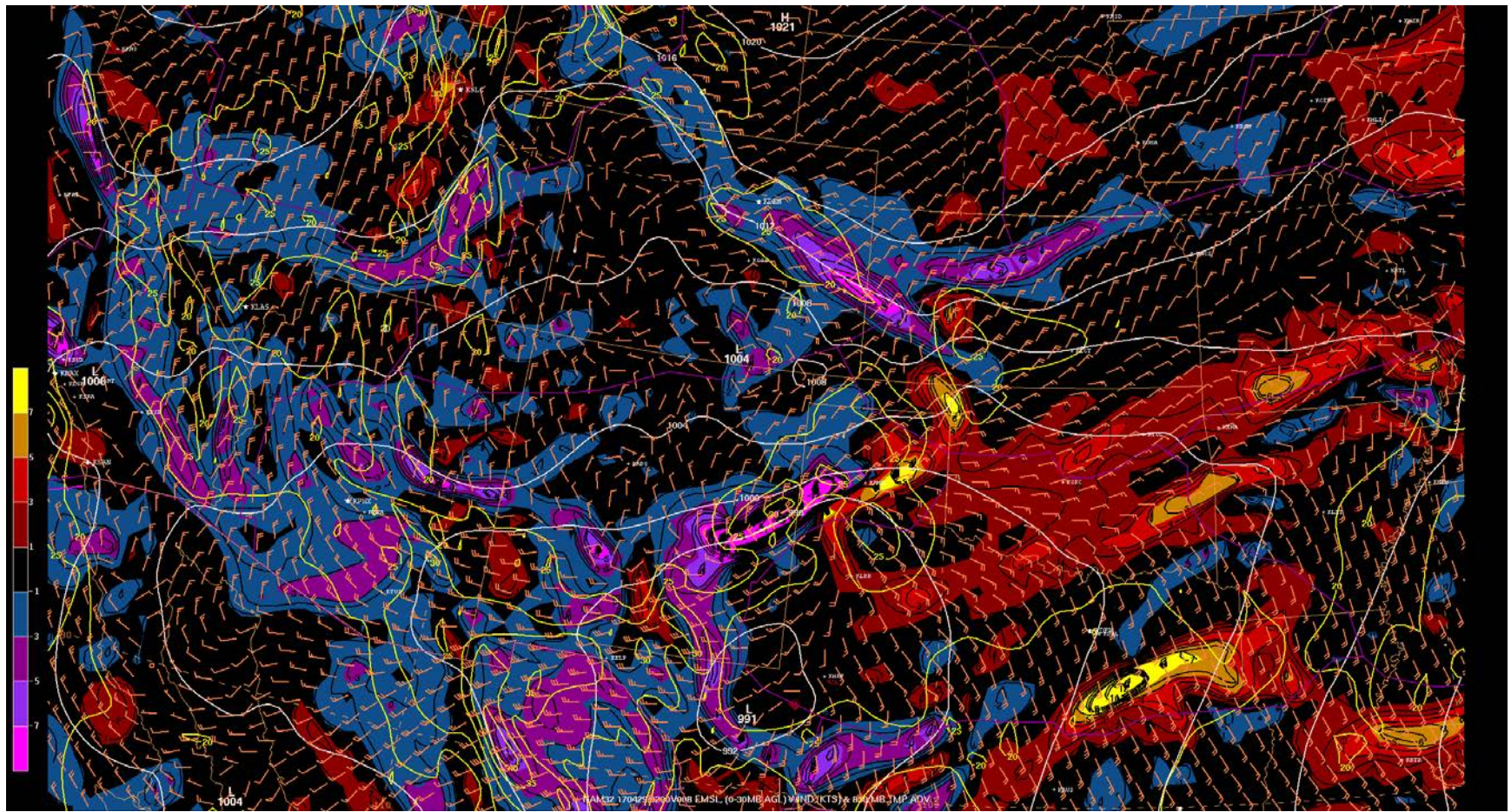






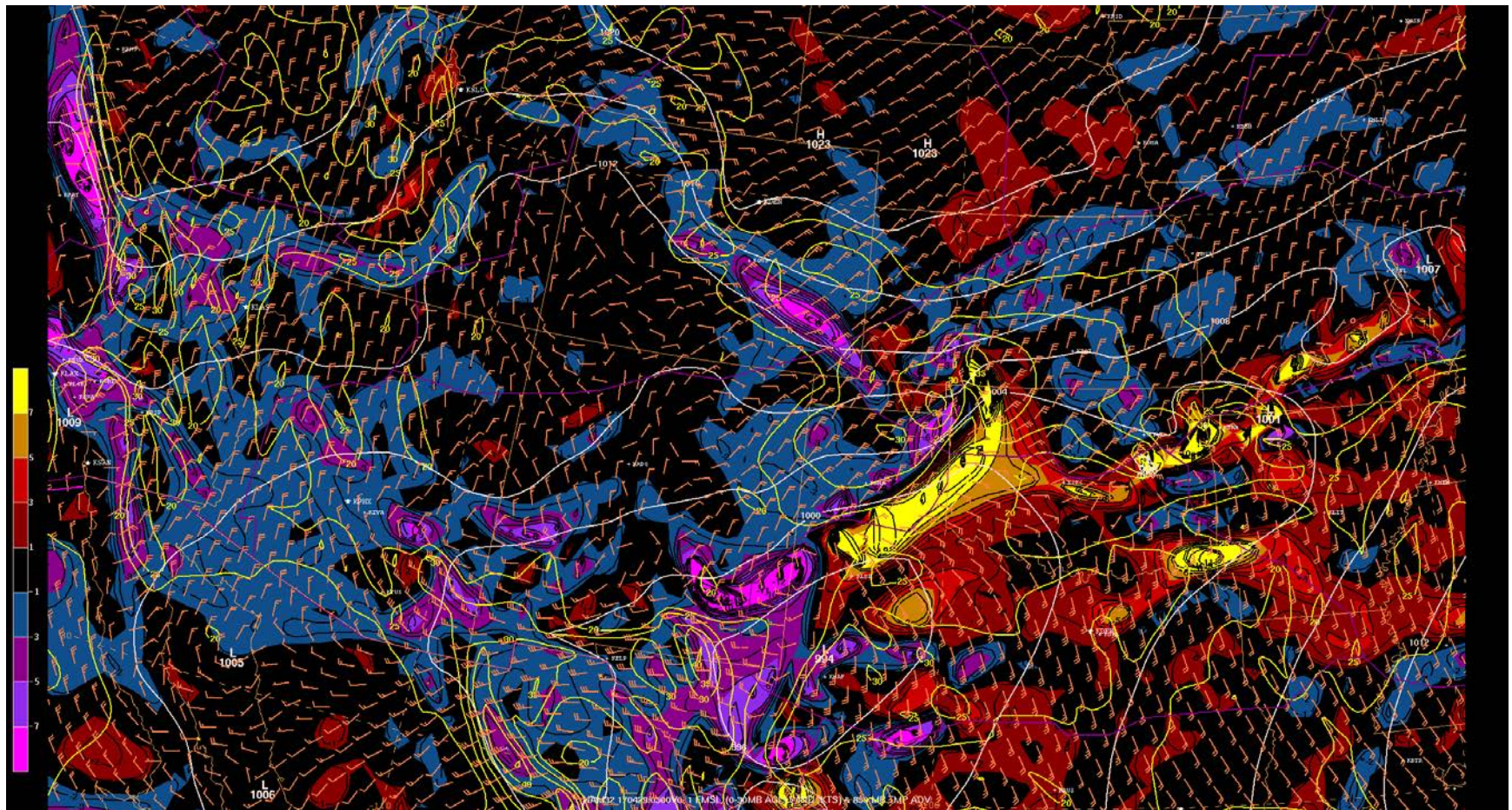


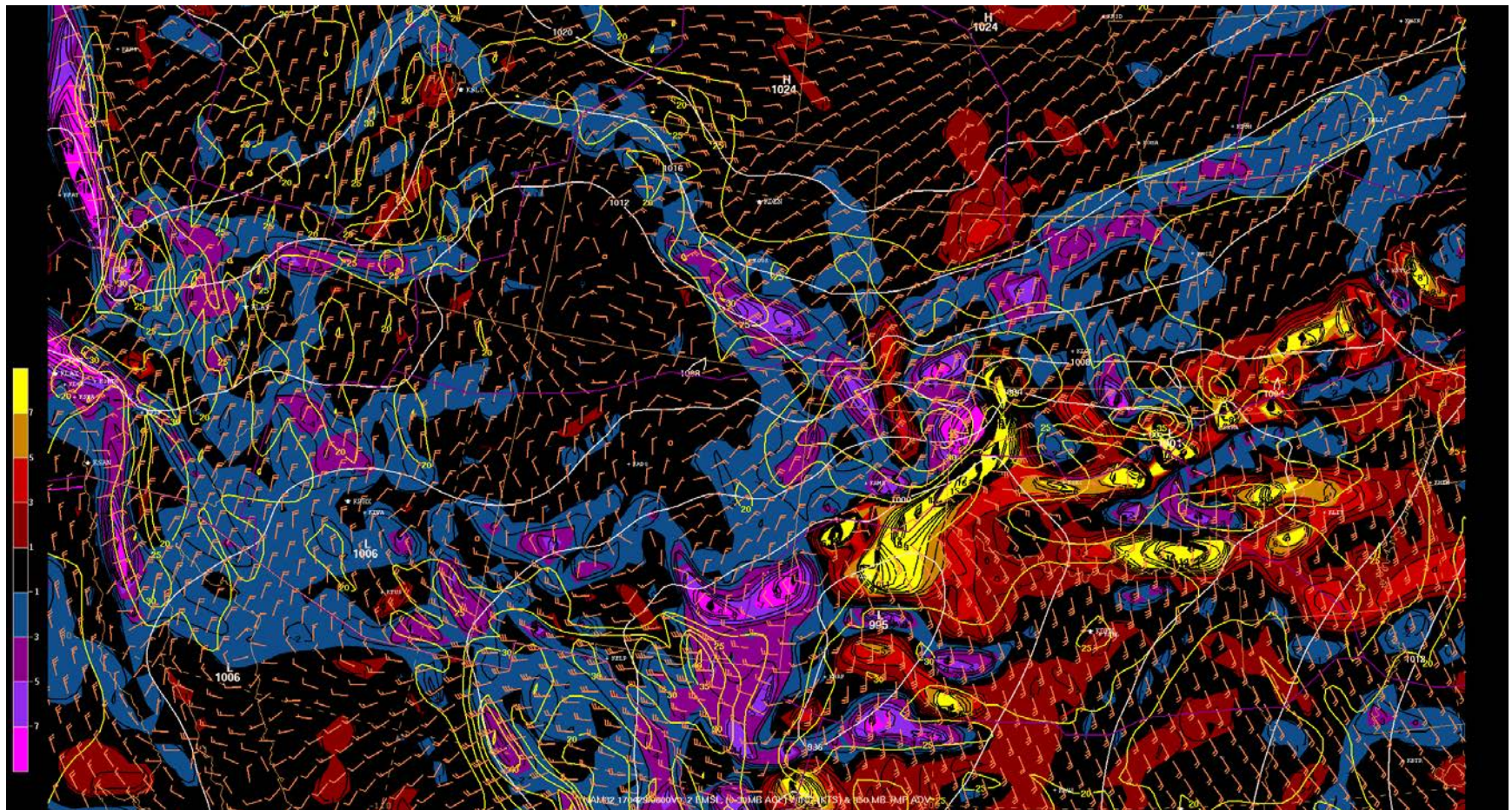


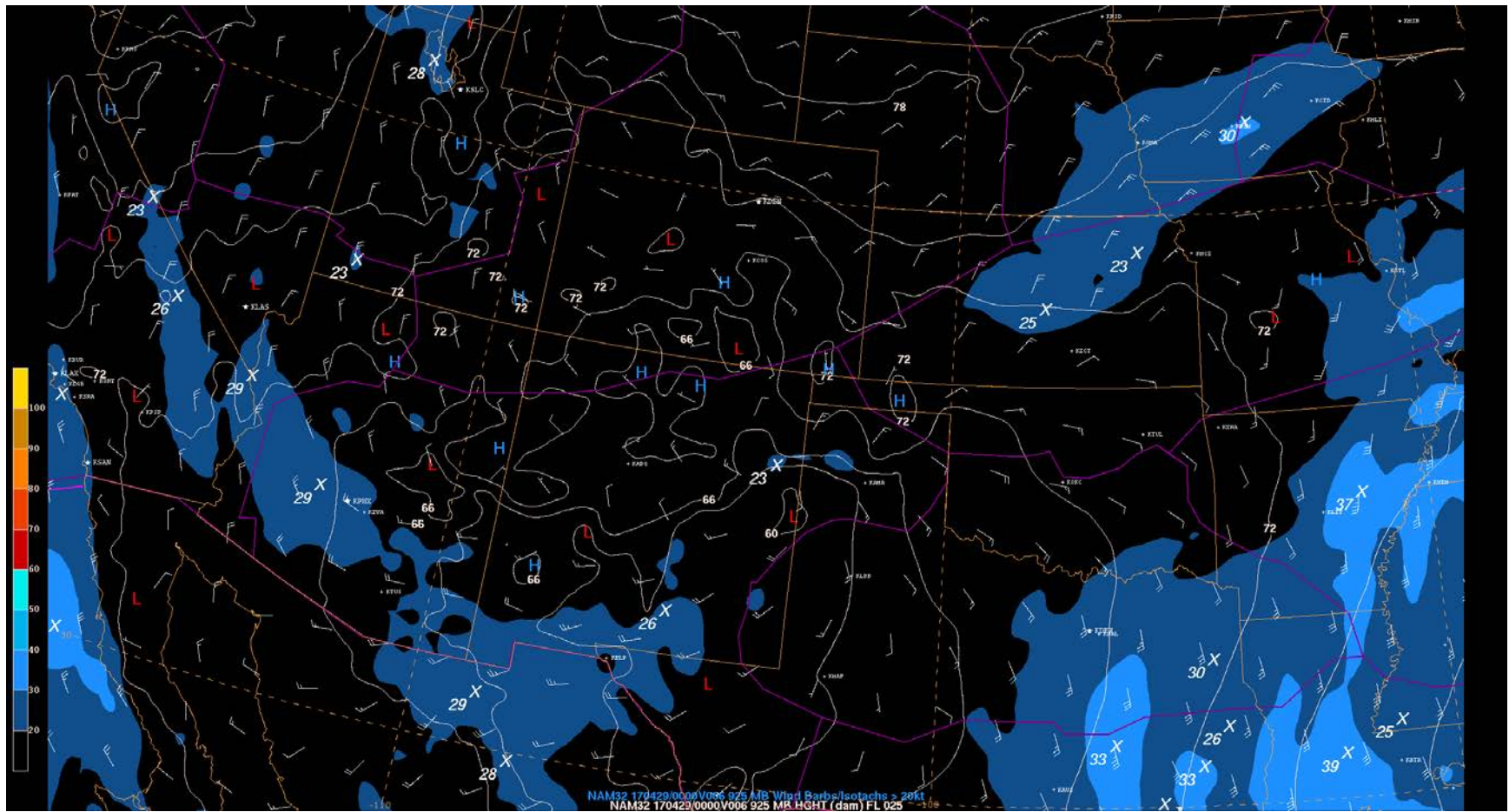


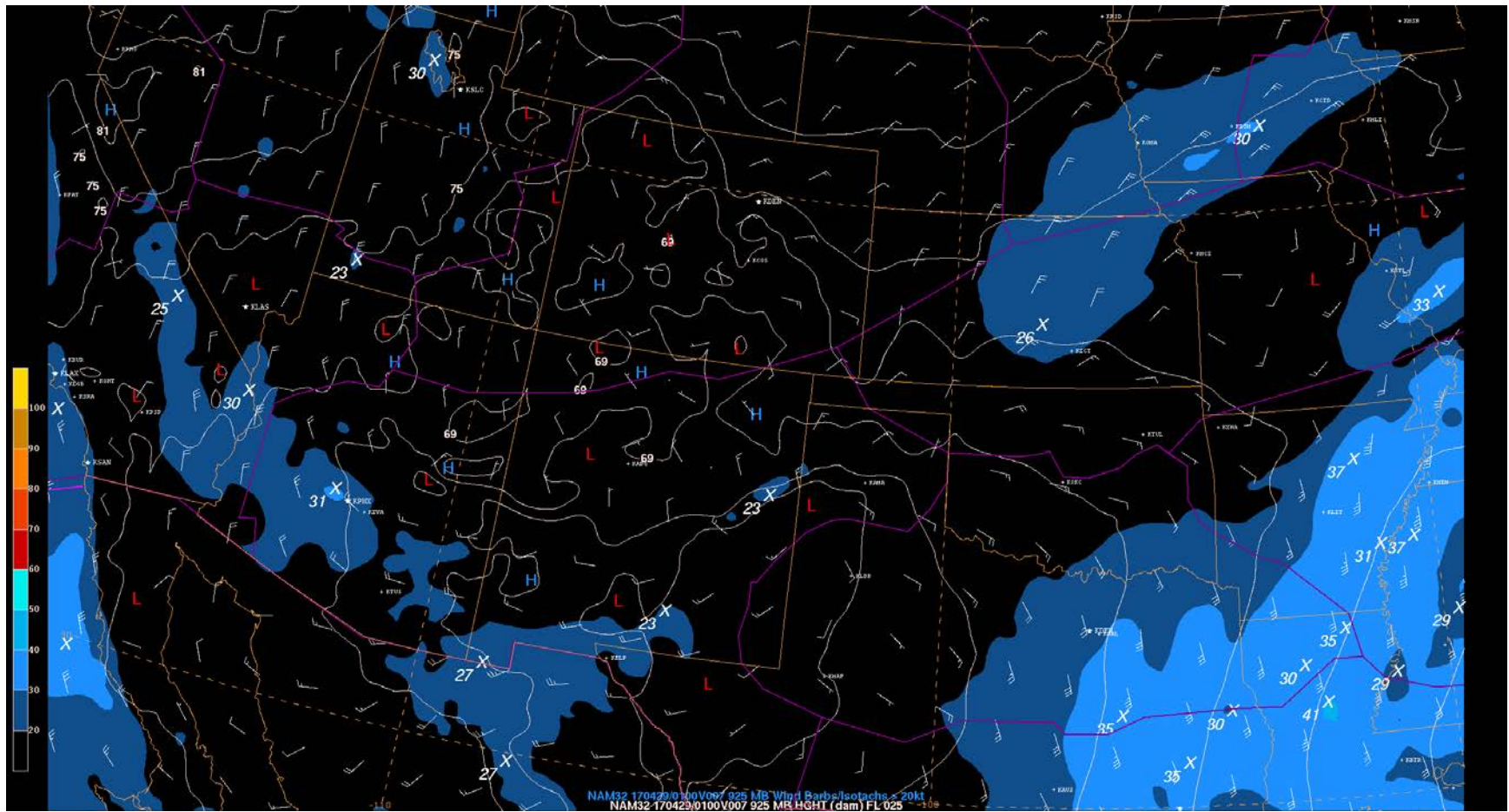




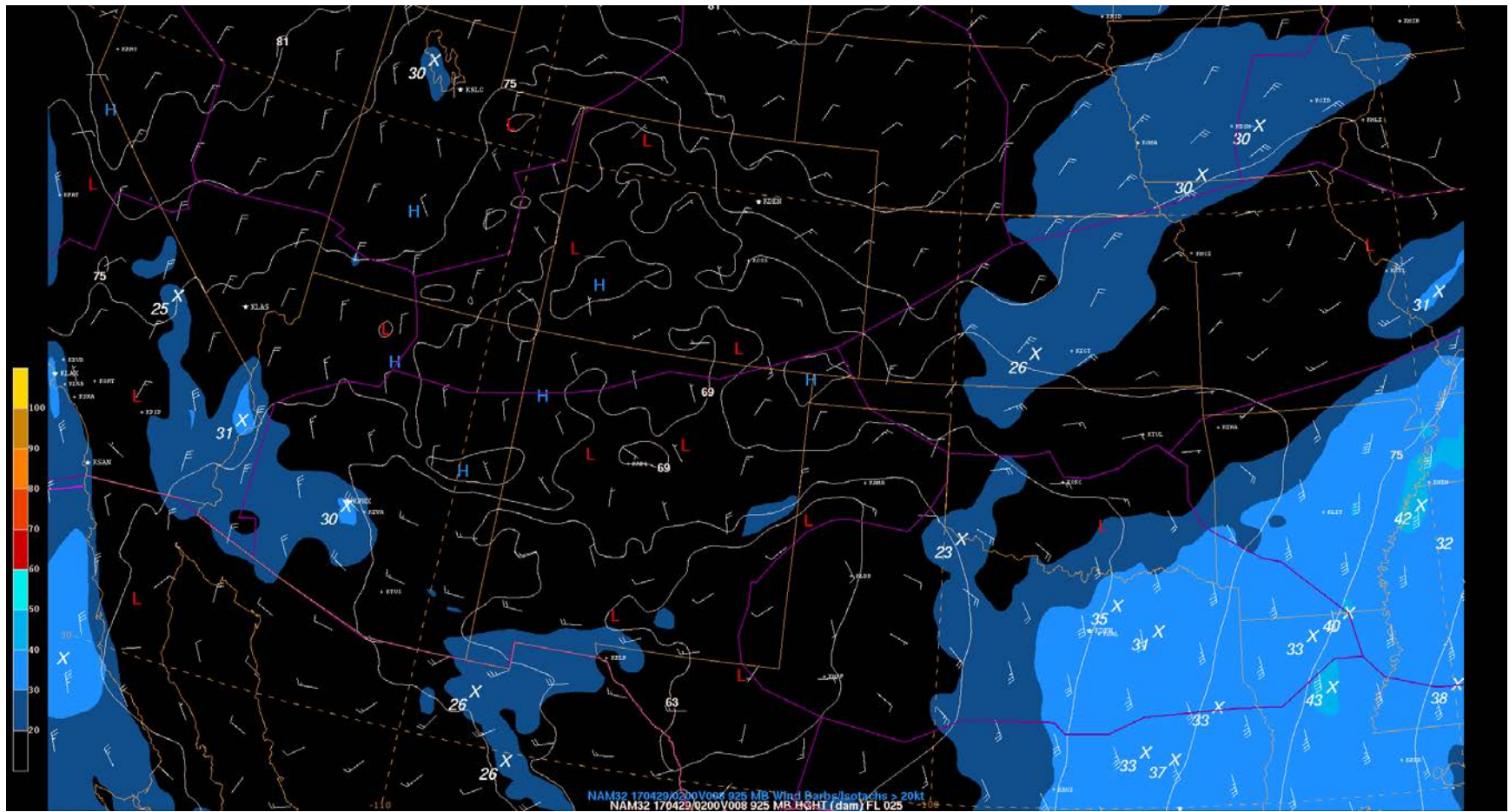


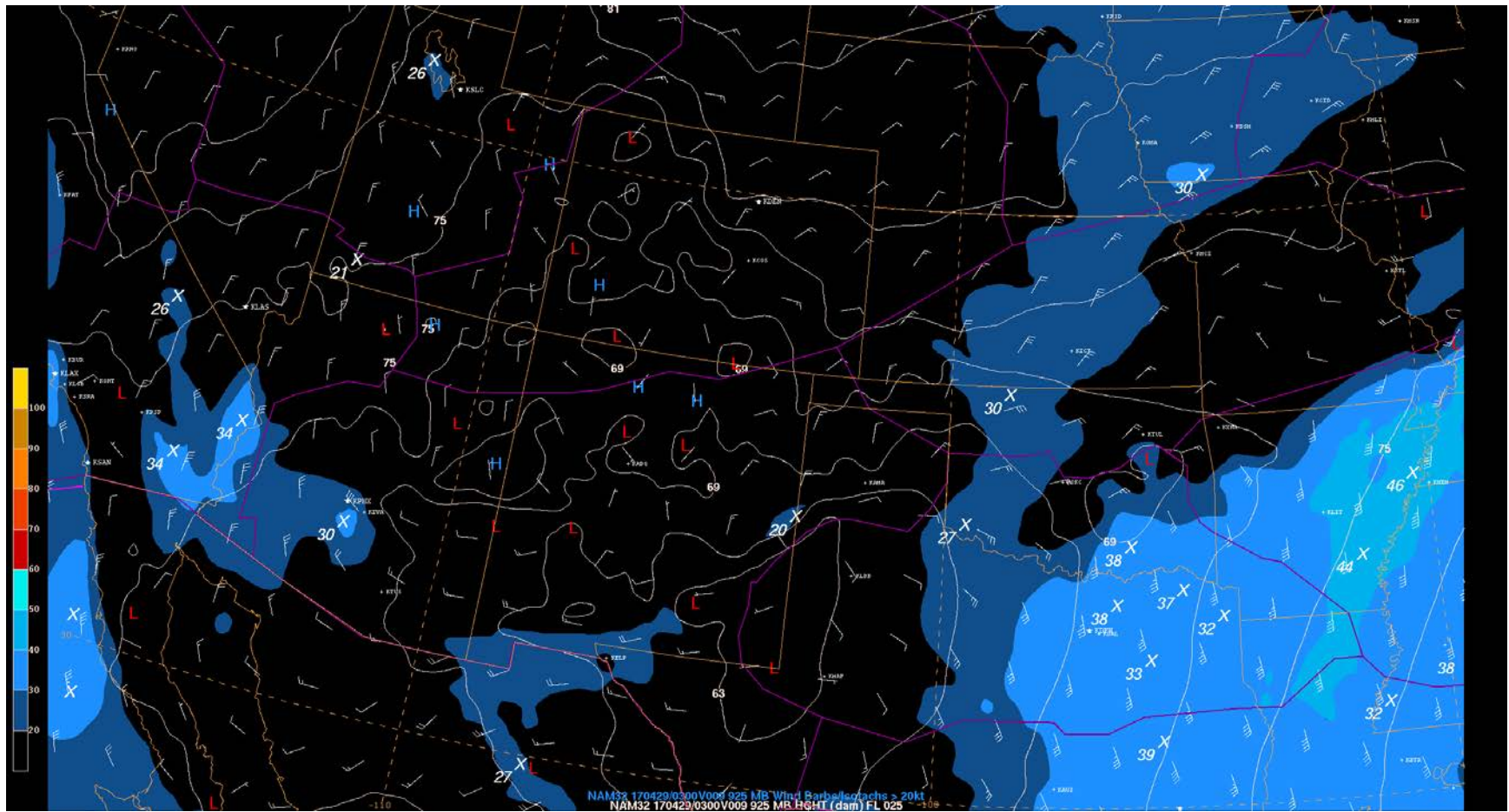


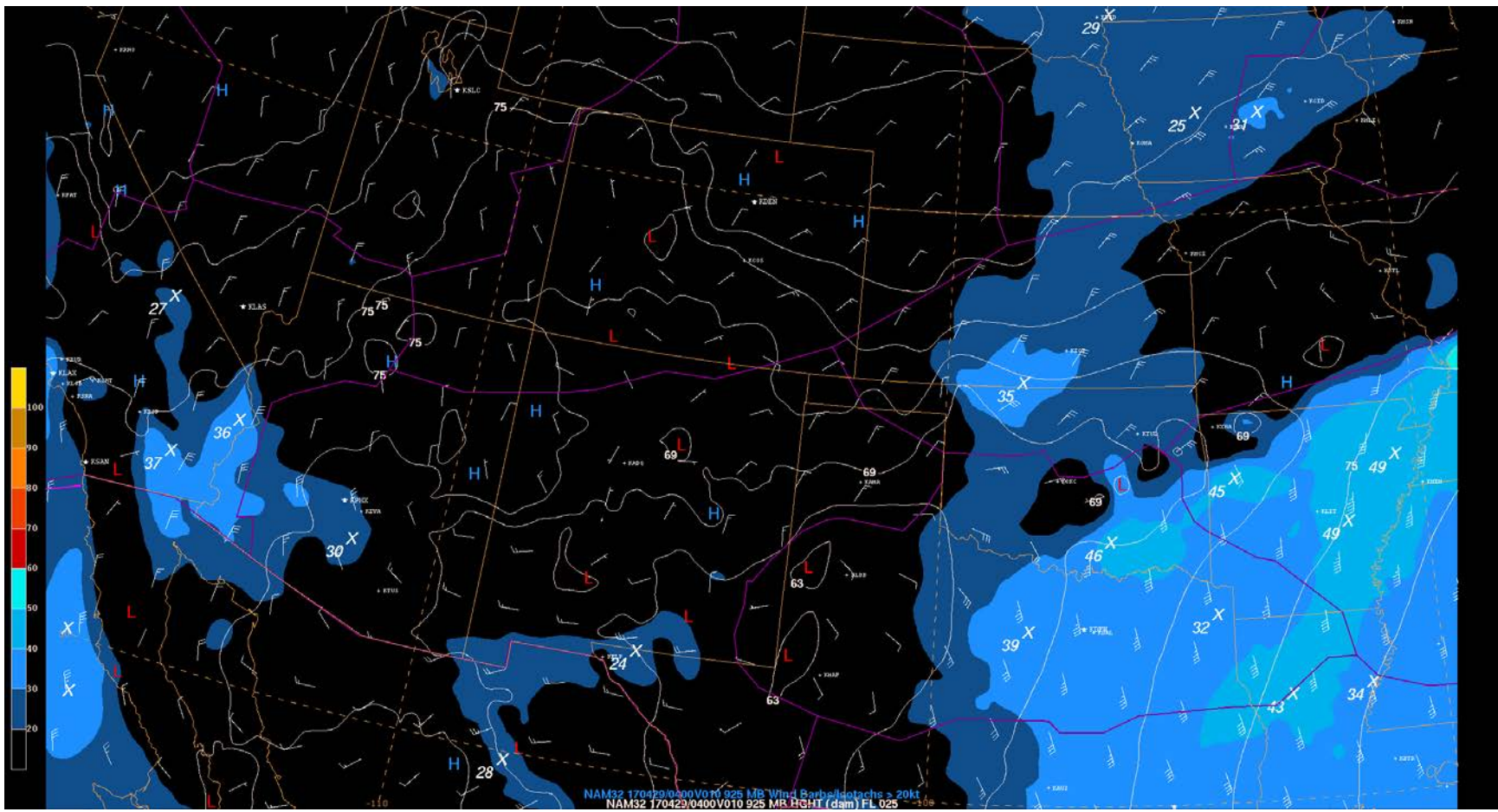


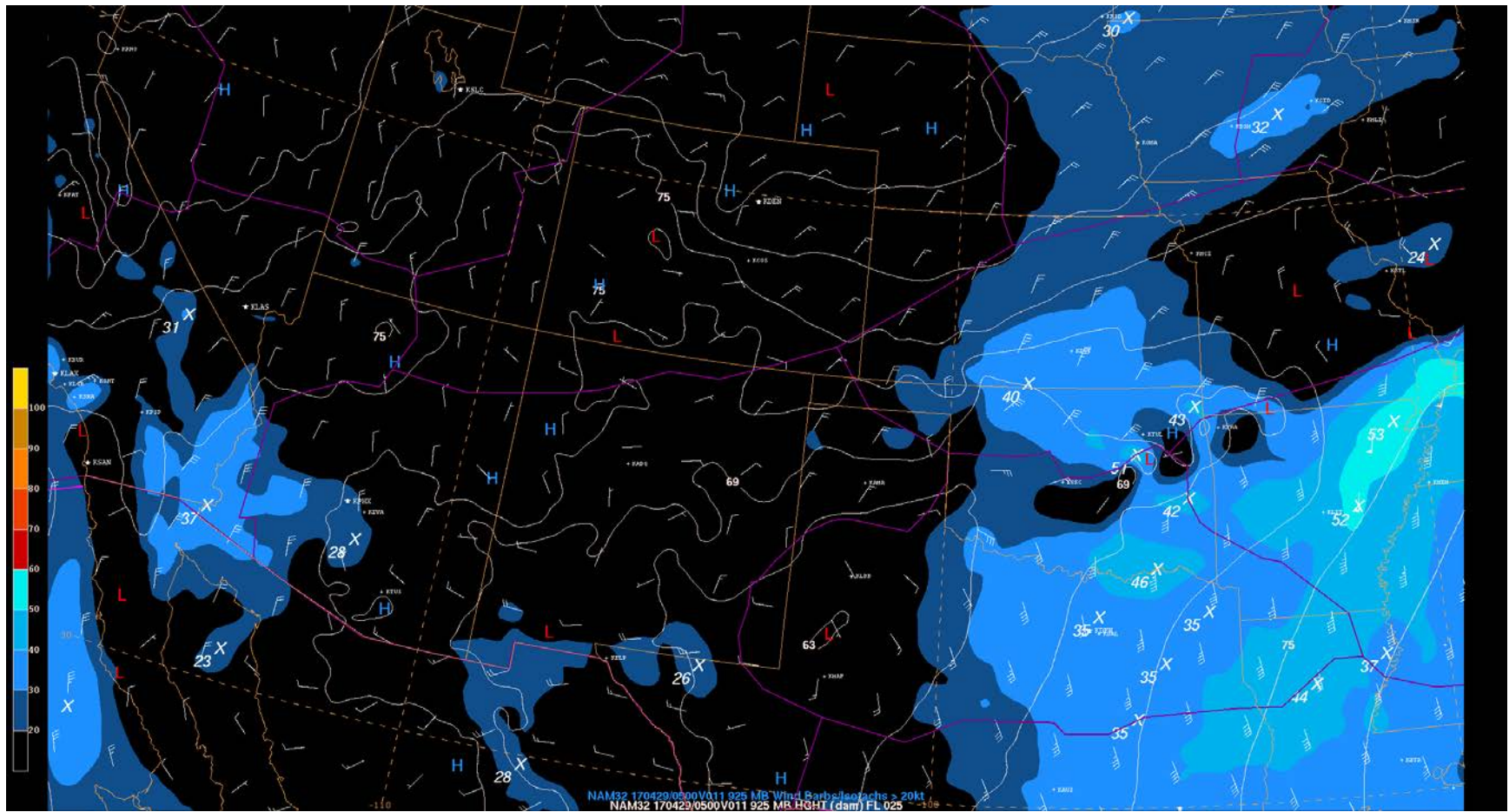


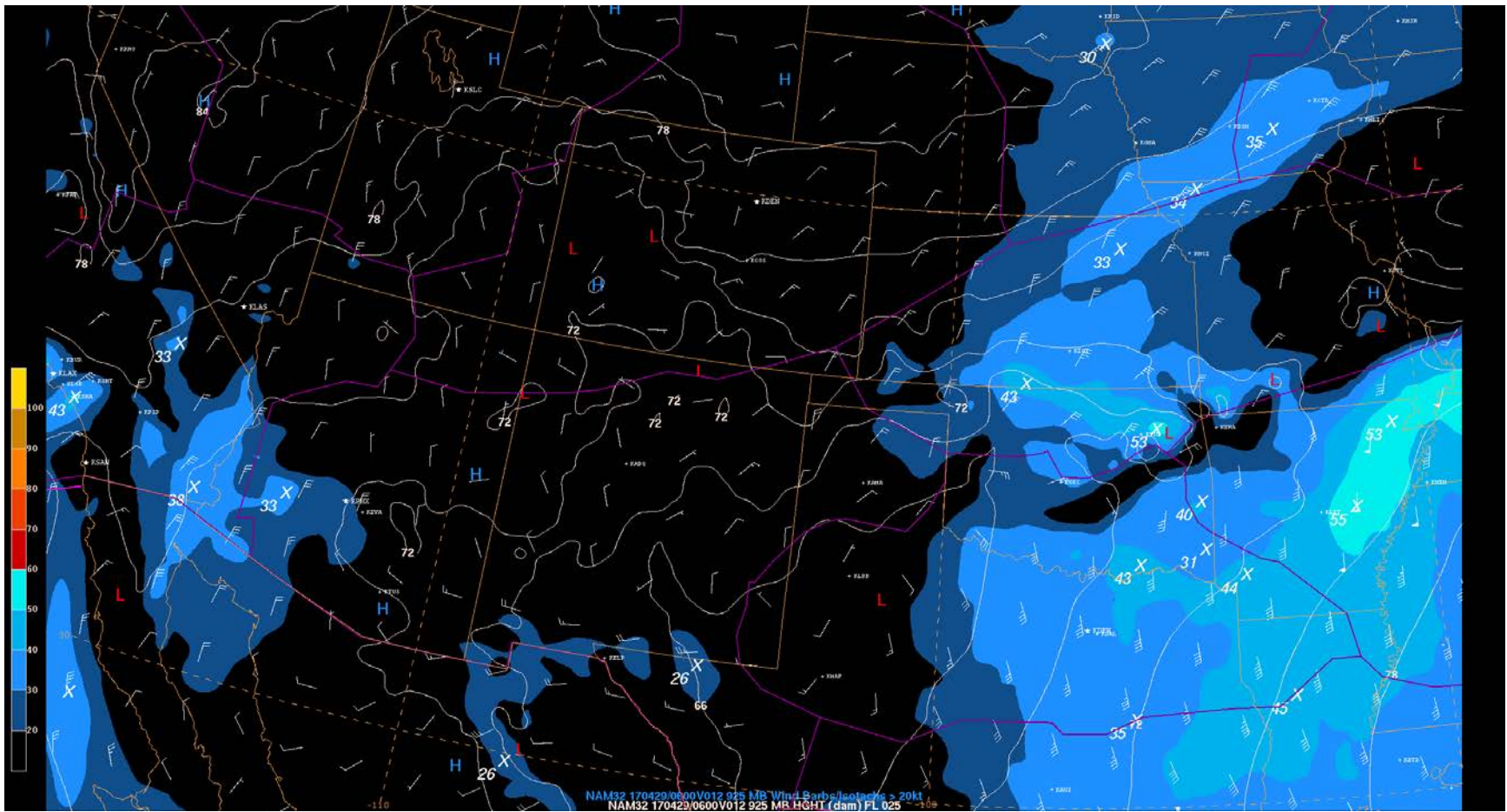










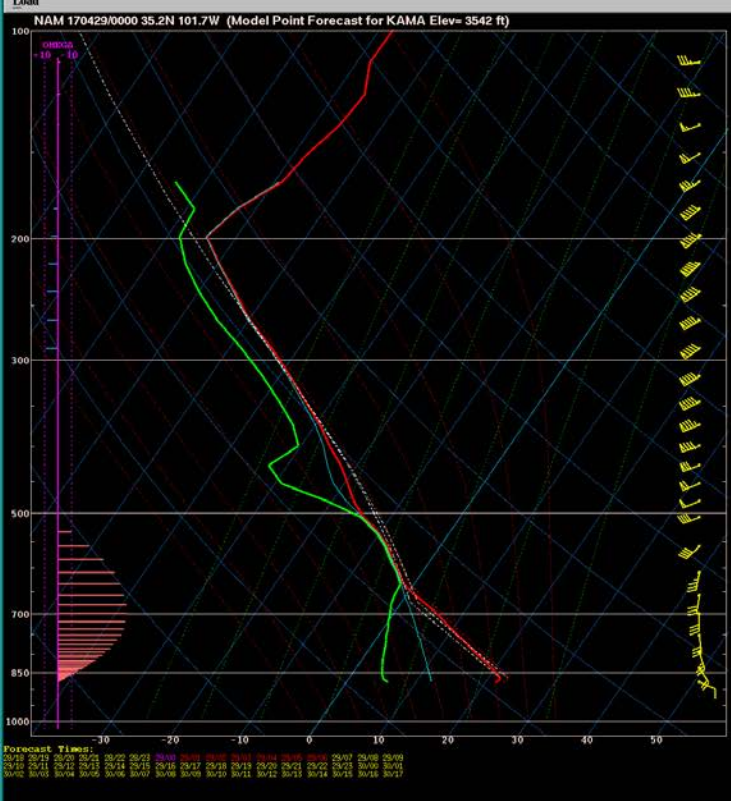




Forecast Times:  
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ClearVGE  
 Take Screenshot

18:15:47 Z  
 Fri Jun 23



**CURSOR DATA**

28.1C 692mb 10150ft 6546ft  
 6.9 g/kg 0.0g/kg 1095m 1996m  
 0=24.1K 0=2402K

**PARCEL DATA**

\*\*\* MOST UNSTABLE PARCEL \*\*\*

LPL: 866mb 71C/4C 71F/40F

CAPE = 165 J/Kg LI (500mb) = -2 C  
 BFGS = 0 J/Kg L1min = -2C / 480mb  
 CMBH = -100 J/Kg CAP = 1C / 659mb

LEVEL	PRES	HGT (AGL)	HGT (MSL)	TEMP
LCL	674mb	7285ft	10889ft	
LFC	634mb	8887ft	12491ft	-1C
EL	335mb	24524ft	28177ft	-35C
HPL	194mb	36211ft	39811ft	

**THERMODYNAMIC DATA**

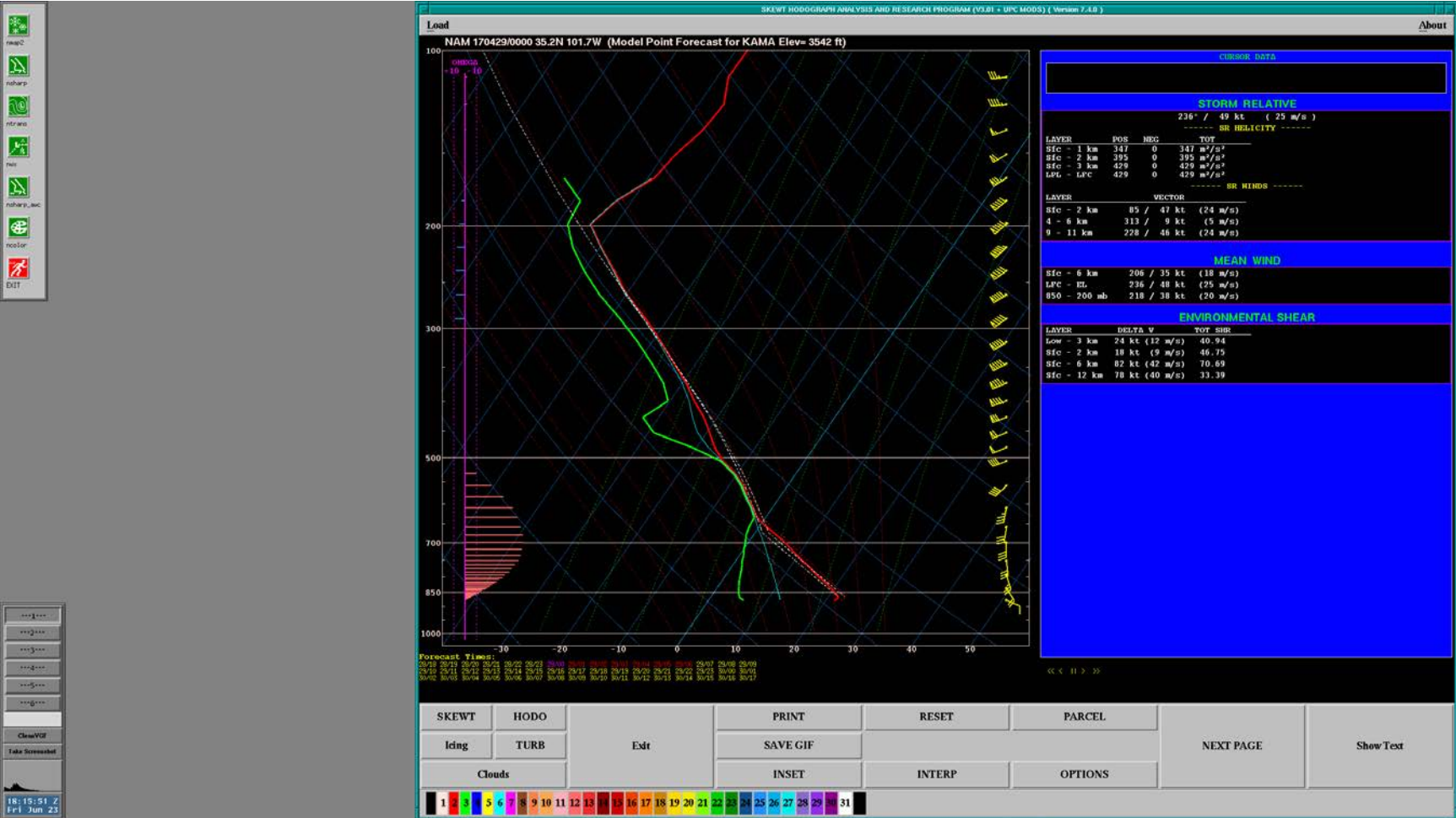
----- AVAILABLE MOISTURE -----  
 P. Water = 0.80 in Mean RH = 49 %  
 Mean H = 6.1 g/Kg Mean LRH = 38 %  
 Top of Moist Lyr = H / H

----- CONDITIONAL INSTABILITY -----  
 700-500mb Lapse Rate = 21 C / 8.1 C/km  
 850-500mb Lapse Rate = 36 C / 8.4 C/km

----- MISC PARAMETERS -----  
 Total Totals = 54 K-Index = 33  
 SKEWT Index = 381 Max Temp = 79F  
 ThetaE Diff = 6C ConvTemp(s) = 77F/76F  
 RHZ Level = 7828ft FZG LVL(AGL) = 8405ft  
 FZG LVL(MSL) = 12009ft

SKEWT	HODO	PRINT	RESET	PARCEL	
Idng	TURB	SAVE GIF			NEXT PAGE
Clouds	Exit	INSET	INTERP	OPTIONS	Show Text

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

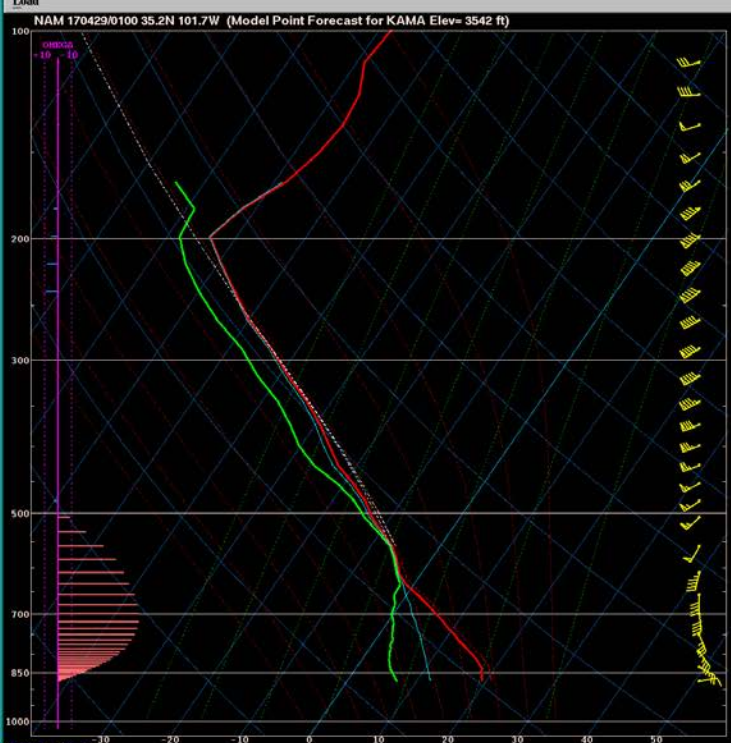




Forecast Times:  
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Clear VCF  
 Take Screenshot

18:15:56 Z  
 Fri Jun 23



Forecast Times:  
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CURSOR DATA

\*\*\* MOST UNSTABLE PARCEL \*\*\*

Parcel Data:

LPL: 559mb -6C/-7C 19F/19F  
 CAPE = 137 J/Kg LI (500mb) = -1 C  
 BPGS = 10 J/Kg Lmin = -2C / 477mb  
 CLMB = -0.3/Kg Cap = 0C / 513mb

LEVEL	PRES	DBT (AGL)	DBT (MSL)	TEMP
LCL	556mb	12245ft	15848ft	
LFC	551mb	12475ft	16079ft	-8C
EL	248mb	3111ft	34715ft	-53C
HPL	194mb	36209ft	39812ft	

Thermodynamic Data:

Available Moisture:

P. Water = 0.86 in Mean RH = 55 %  
 Mean H = 6.6 g/Kg Mean LRH = 45 %  
 Top of Moist Lyr = H / H

Conditional Instability:

700-500mb Lapse Rate = 19 C / 7.5 C/km  
 850-500mb Lapse Rate = 33 C / 7.6 C/km

Misc Parameters:

Total Totals = 51 K Index = 31  
 SREAR Index = 205 Max Temp = 74e  
 ThetaE Diff = 2C ConvTemp(s) = 77F/67F  
 MIX Level = 7862ft FZG LVL(AGL) = 8466ft  
 FZG LVL(MSL) = 12069ft

SKEWT	HODO	PRINT	RESET	PARCEL	
Idng	TURB	SAVE GIF			NEXT PAGE
Clouds	Exit	INSET	INTERP	OPTIONS	Show Text

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

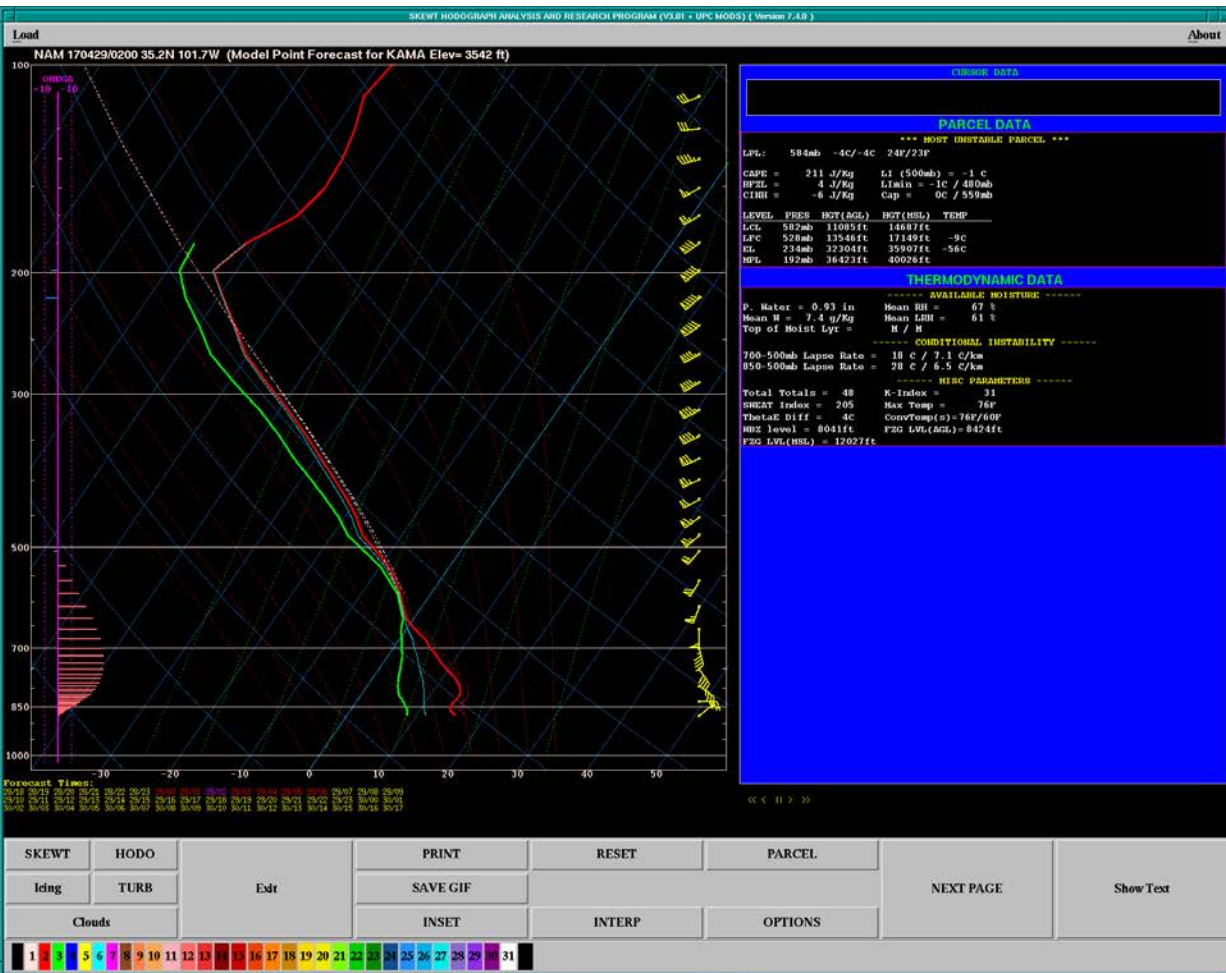




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Clouds  
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 Fri Jun 23

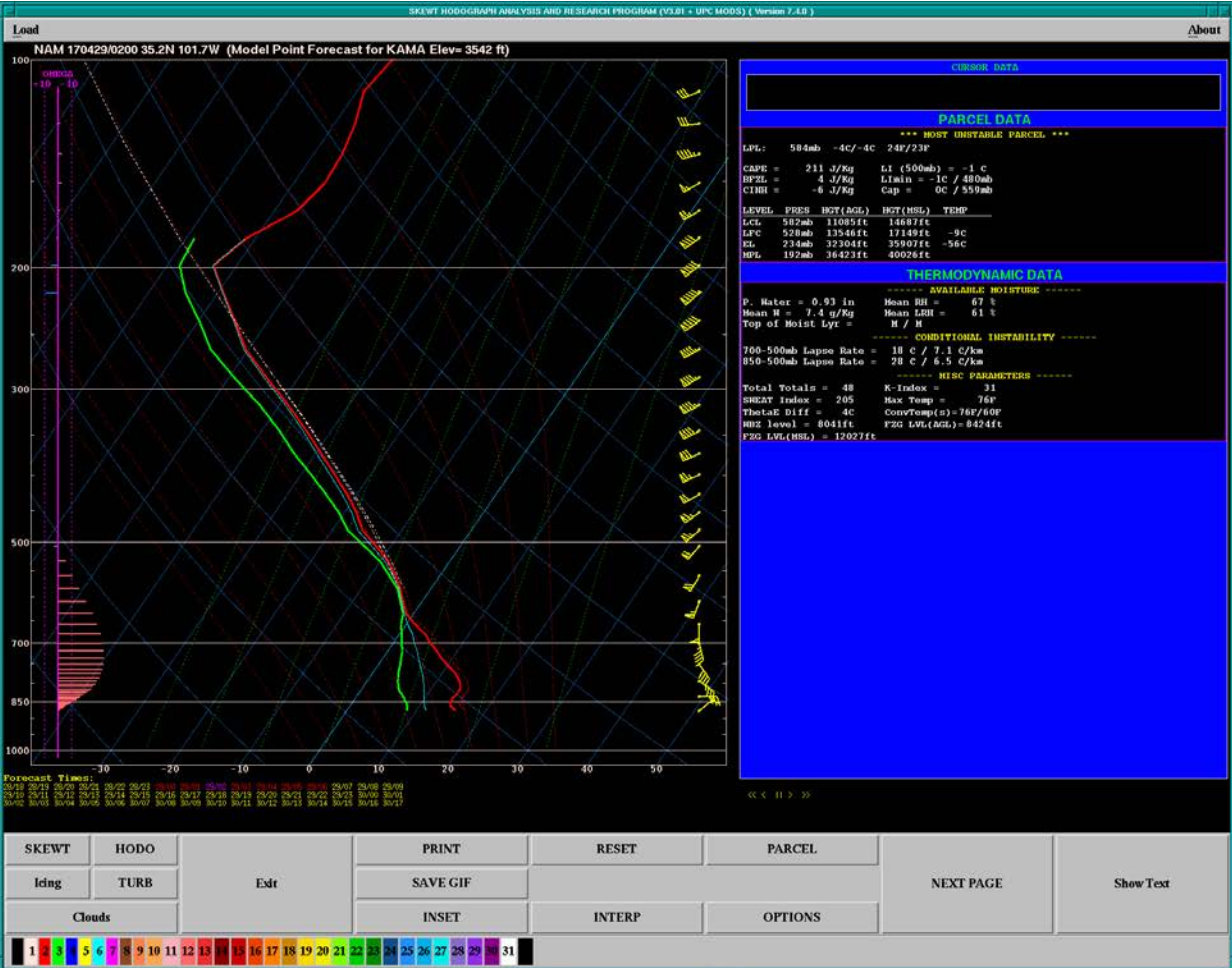


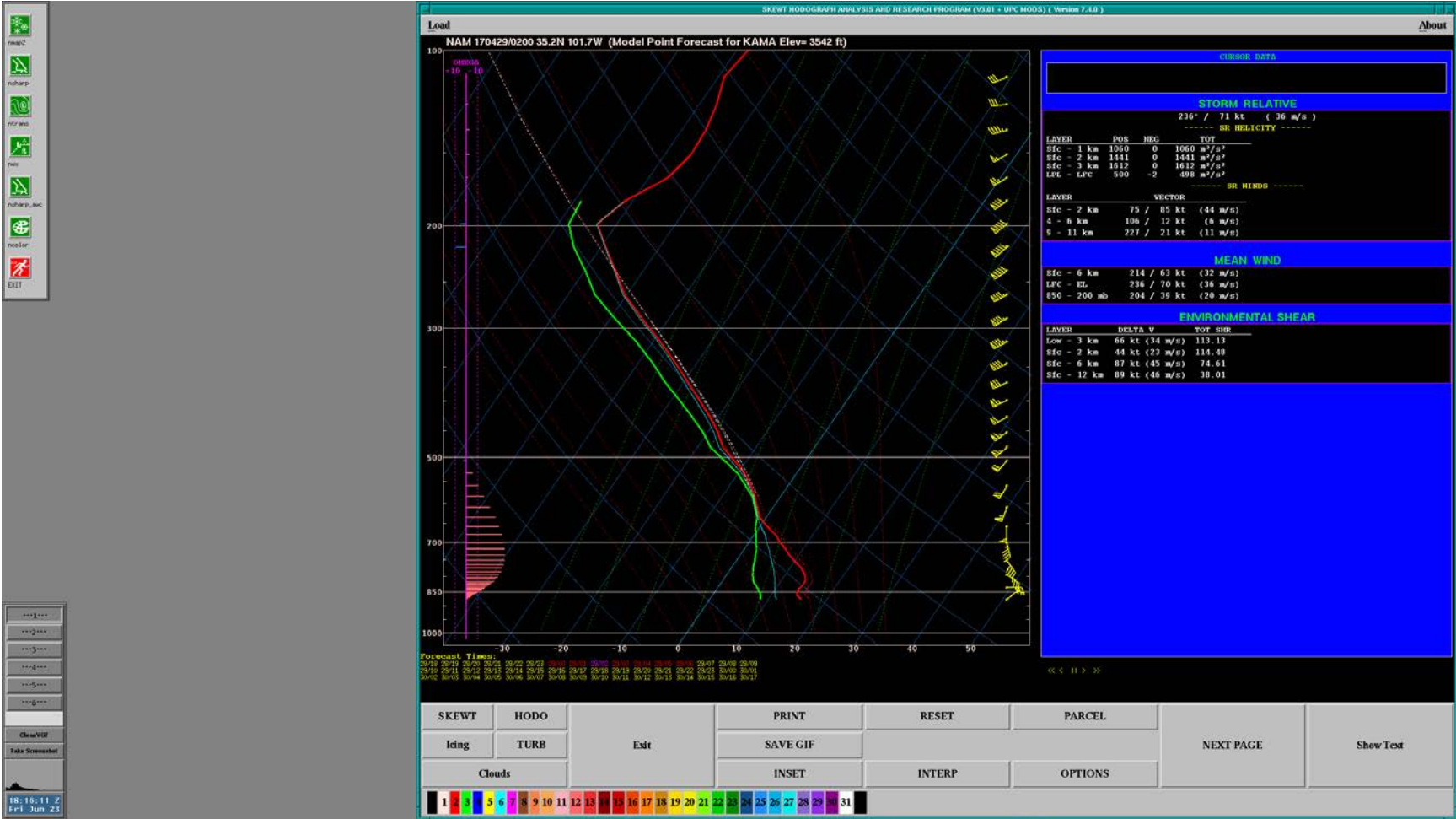


Forecast Times:  
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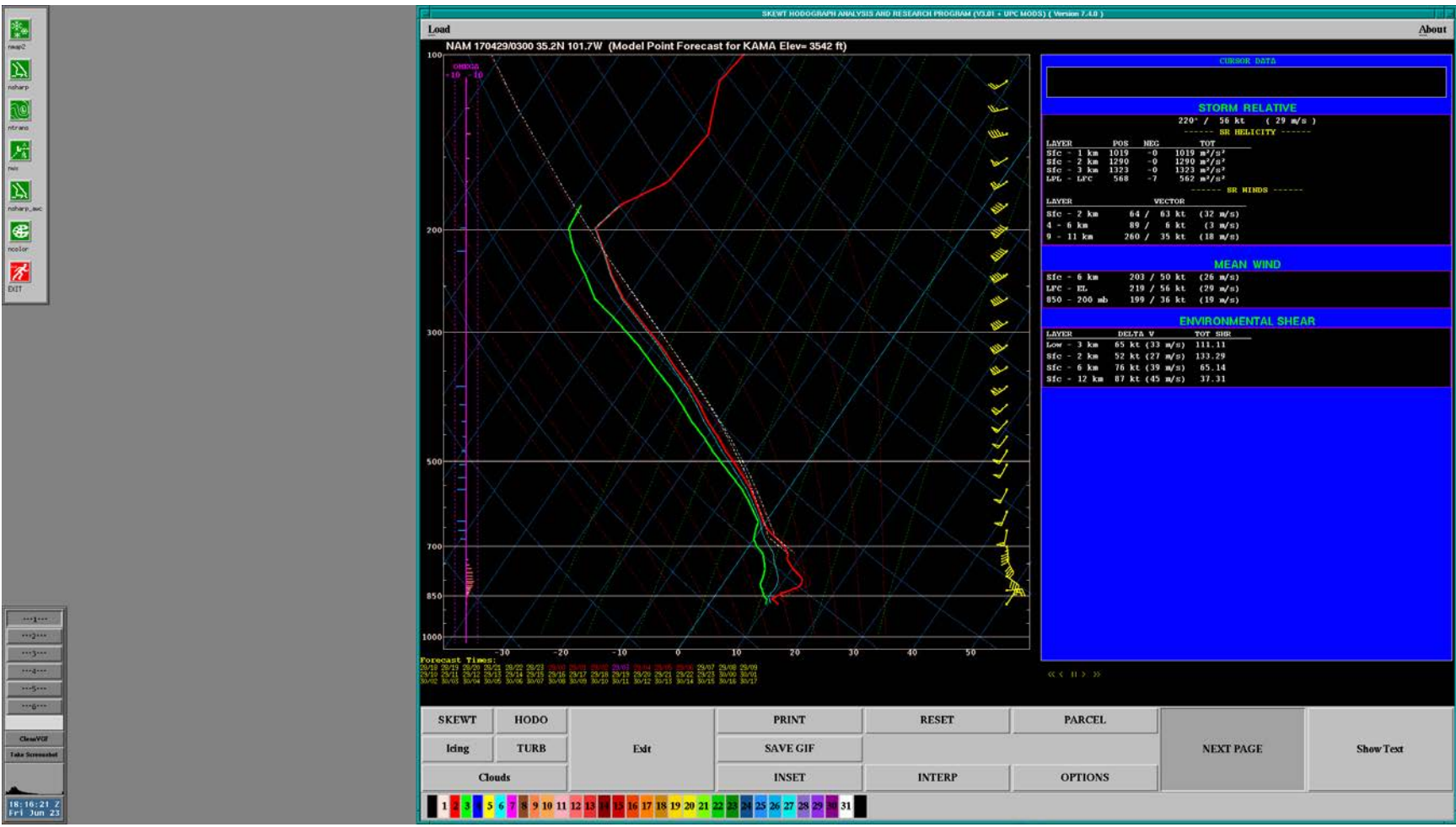
Clear VCF  
 Take Screenshot

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 Fri Jun 23

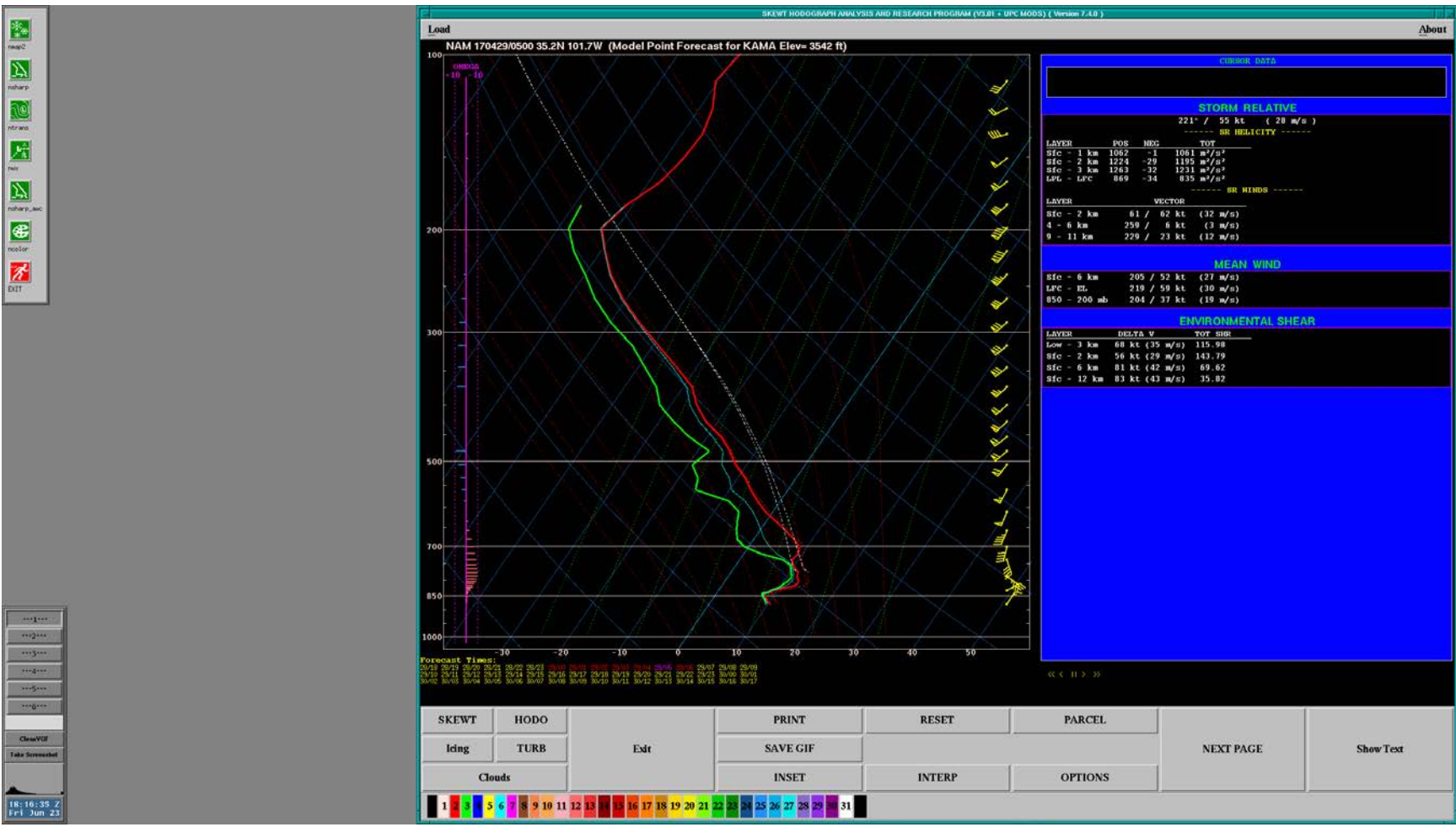










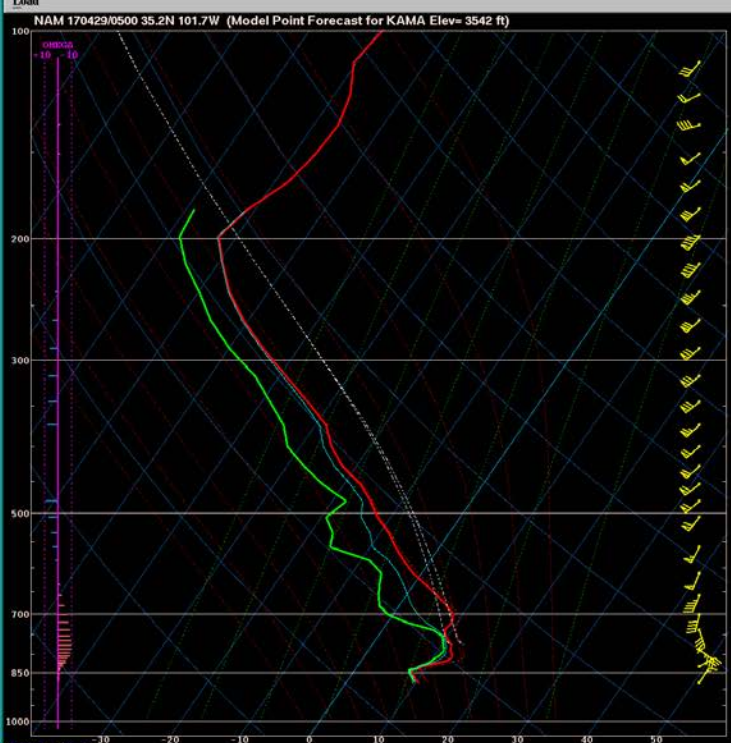




Forecast Times:  
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Clear VCF  
 Take Screenshot

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 Fri Jun 23



Forecast Times:  
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CURSOR DATA

PARCEL DATA  
 \*\*\* MOST UNSTABLE PARCEL \*\*\*  
 LPL: 778mb 11c/10c 52F/50F  
 CAPE = 1902 J/Kg LI (500mb) = -5 C  
 BFGS = 22 J/Kg L1min = -8c / 263mb  
 CMBH = -21 J/Kg Gap = 1c / 702mb

LEVEL	PRES	HGT(AGL)	HGT(MSL)	TEMP
LCL	765mb	3330ft	7450ft	
LFC	659mb	7881ft	11482ft	5C
EL	189mb	36814ft	40415ft	-62C
HPL	132mb	44152ft	47744ft	

THERMODYNAMIC DATA  
 ----- AVAILABLE MOISTURE -----  
 P. Water = 0.96 in Mean RH = 76 %  
 Mean H = 8.9 g/Kg Mean LSH = 94 %  
 Top of Moist Lyr = H / H

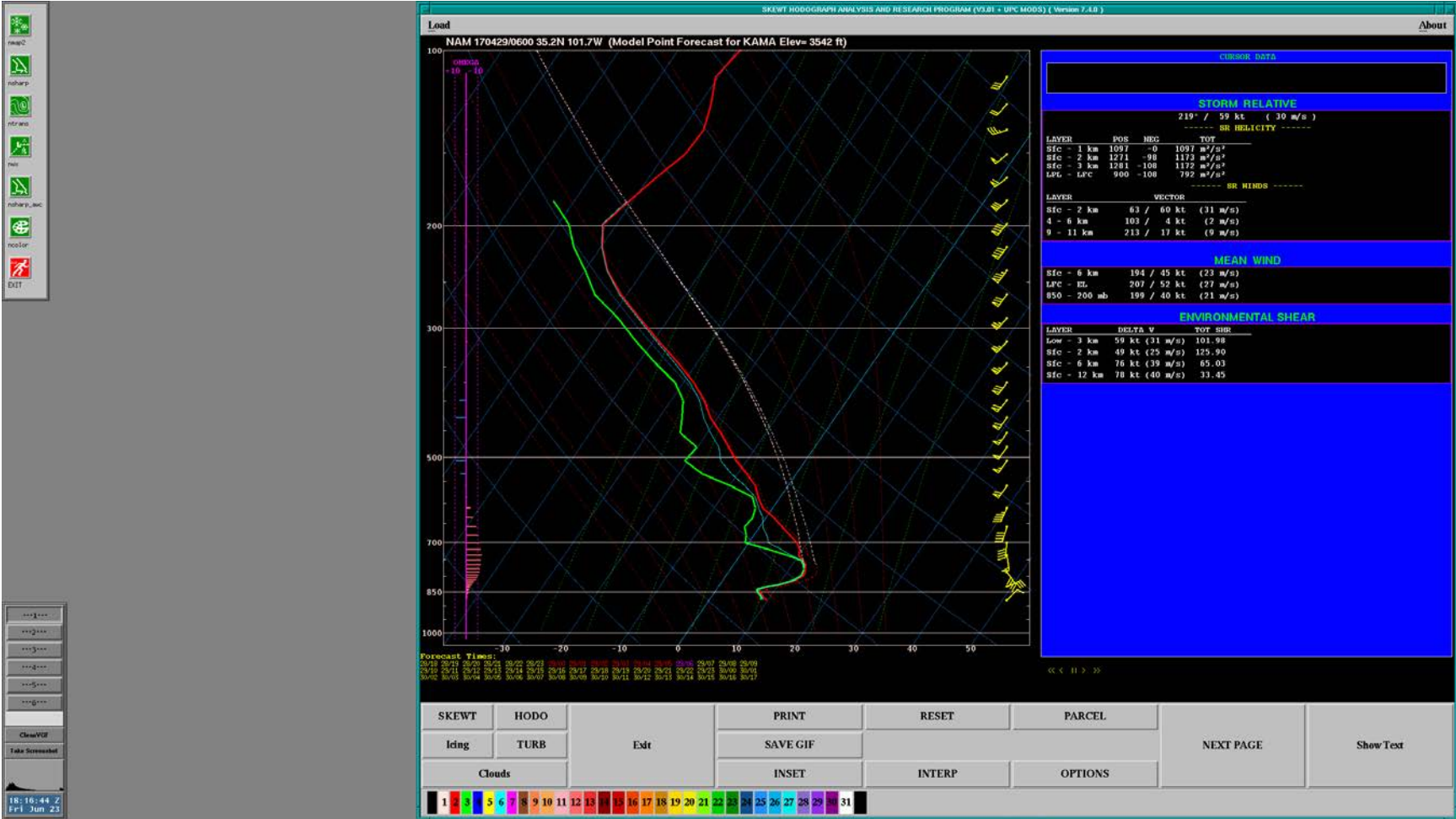
----- CONDITIONAL INSTABILITY -----  
 700-500mb Lapse Rate = 21 C / 8.1 C/km  
 850-500mb Lapse Rate = 22 C / 5.2 C/km

----- MISC PARAMETERS -----  
 Total Totals = 42 K Index = 20  
 SREAR Index = 220 Max Temp = 79c  
 ThetaE Diff = 19C ConvTemp(s)=51P/51P  
 MIX Level = 8057ft FZG LVL(AGL)=9482ft  
 FZG LVL(MSL) = 13083ft

SKEWT	HODO	PRINT	RESET	PARCEL	
Idng	TURB	SAVE GIF			NEXT PAGE
Clouds	Exit	INSET	INTERP	OPTIONS	Show Text

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

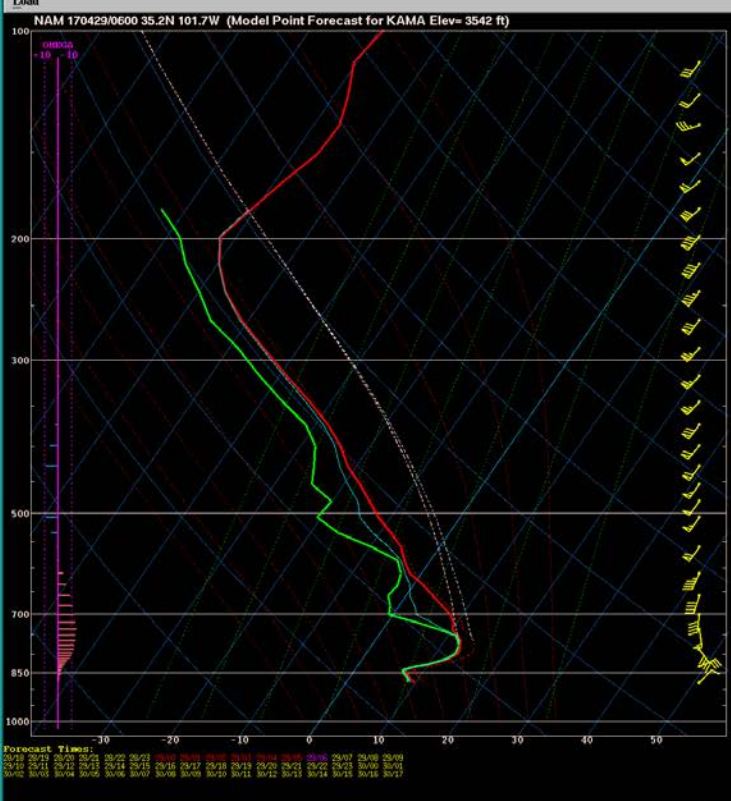






Forecast Times:  
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18:16:49 Z  
 Fri Jun 23



**CURSOR DATA**

**PARCEL DATA**  
 \*\*\* MOST UNSTABLE PARCEL \*\*\*  
 LVL: 765mb 12C/12C 54F/53F  
 CAPE = 3198 J/Kg LI (500mb) = -8 C  
 BFGS = 121 J/Kg L1min =12C / 263mb  
 CMBB = -0.375g Cap = 0C / 153mb

LEVEL	PRES	HGT (AGL)	HGT (MSL)	TEMP
LCL	762mb	3234ft	7532ft	
LFC	753mb	4278ft	7876ft	11C
EL	181mb	37635ft	41231ft	-61C
HPL	106mb	48958ft	52254ft	

**THERMODYNAMIC DATA**  
 ----- AVAILABLE MOISTURE -----  
 P. Water = 1.05 in Mean RH = 82 %  
 Mean H = 9.0 g/Kg Mean LSH = 96 ft  
 Top of Moist Lyr = 737 mb / 4839 ft

**CONDITIONAL INSTABILITY -----**  
 700-500mb Lapse Rate = 21 C / 8.0 C/km  
 850-500mb Lapse Rate = 21 C / 4.9 C/km

**MISC PARAMETERS -----**  
 Total Totals = 40 K Index = 19  
 SREAR Index = 191 Max Temp = 77e  
 ThetaE Diff = 28C ConvTemp(s)=50P/50P  
 MIX Level = 8411ft PZG LVL(AGL)= 9332ft  
 PZG LVL(MSL) = 12930ft

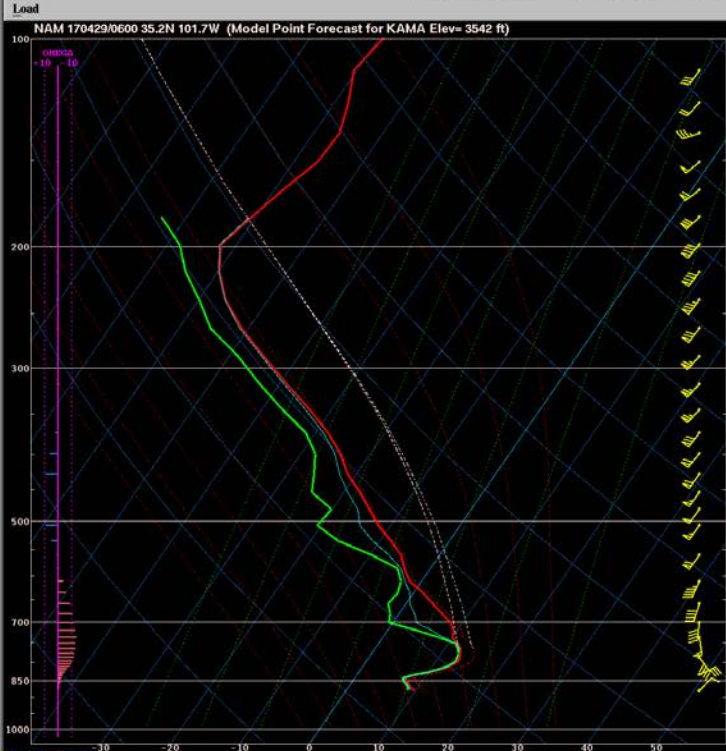
SKEWT	HODO	PRINT	RESET	PARCEL	
Idng	TURB	SAVE GIF		NEXT PAGE	Show Text
Clouds		INSET	INTERP	OPTIONS	

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CleanVGE  
 Take Screenshot  
  
 18:16:53 Z  
 Fri Jun 23

SKJEWT HODOGRAPHI ANALYSIS AND RESEARCH PROGRAM (V3.01 + UPC MODS) [ Version 7.4.0 ]



**CURSOR DATA**

---

**STORM RELATIVE**  
200° / 52 kt ( 27 m/s )  
----- SR HELICITY -----

LAYER	POS	HEG	TOT
Sfc - 1 km	538	0	938 m <sup>2</sup> /s <sup>2</sup>
Sfc - 2 km	1087	-67	1000 m <sup>2</sup> /s <sup>2</sup>
Sfc - 3 km	1070	-84	987 m <sup>2</sup> /s <sup>2</sup>
Lfc - Lfc	650	-88	572 m <sup>2</sup> /s <sup>2</sup>

----- SR HMDS -----

LAYER	VECTOR
Sfc - 2 km	55 / 50 kt (25 m/s)
4 - 6 km	289 / 9 kt (5 m/s)
9 - 11 km	239 / 26 kt (13 m/s)

**MEAN WIND**

Sfc - 6 km	184 / 45 kt (23 m/s)
Lfc - RL	207 / 52 kt (27 m/s)
850 - 200 mb	199 / 40 kt (21 m/s)

**ENVIRONMENTAL SHEAR**

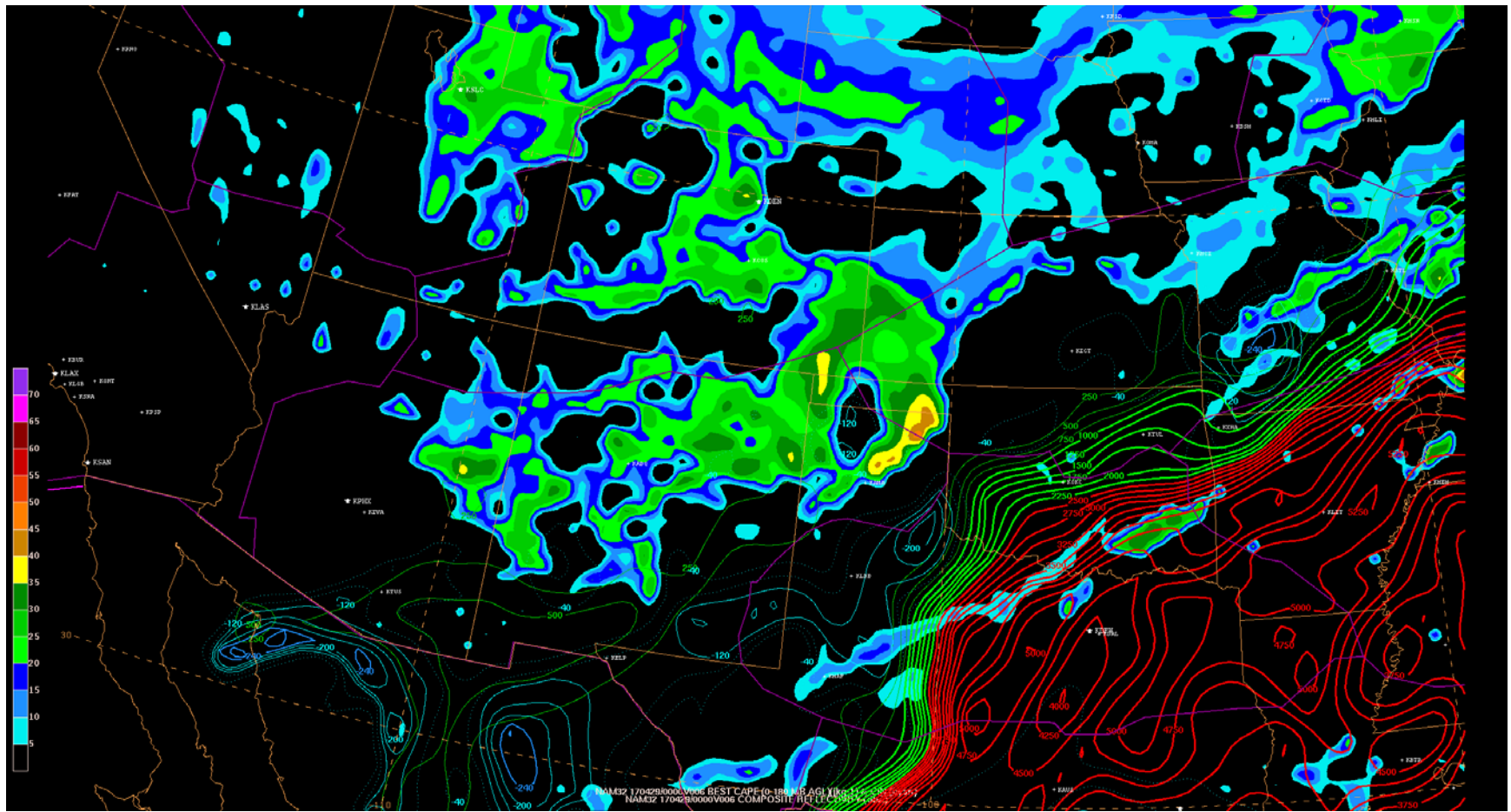
LAYER	DELTA V	TOT SHR
Low - 3 km	59 kt (31 m/s)	101.98
Sfc - 2 km	49 kt (23 m/s)	125.90
Sfc - 6 km	76 kt (39 m/s)	65.03
Sfc - 12 km	78 kt (40 m/s)	33.45

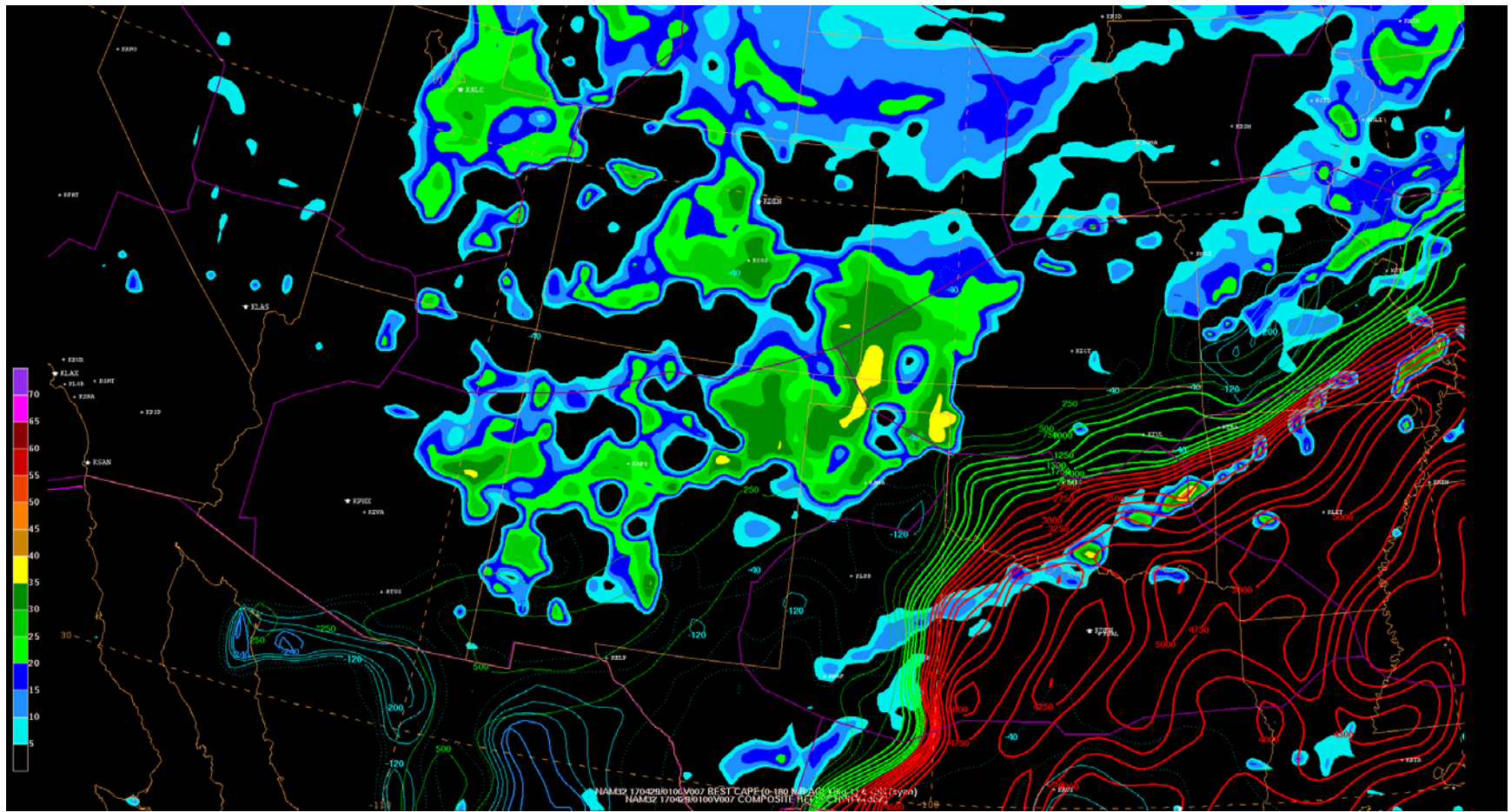
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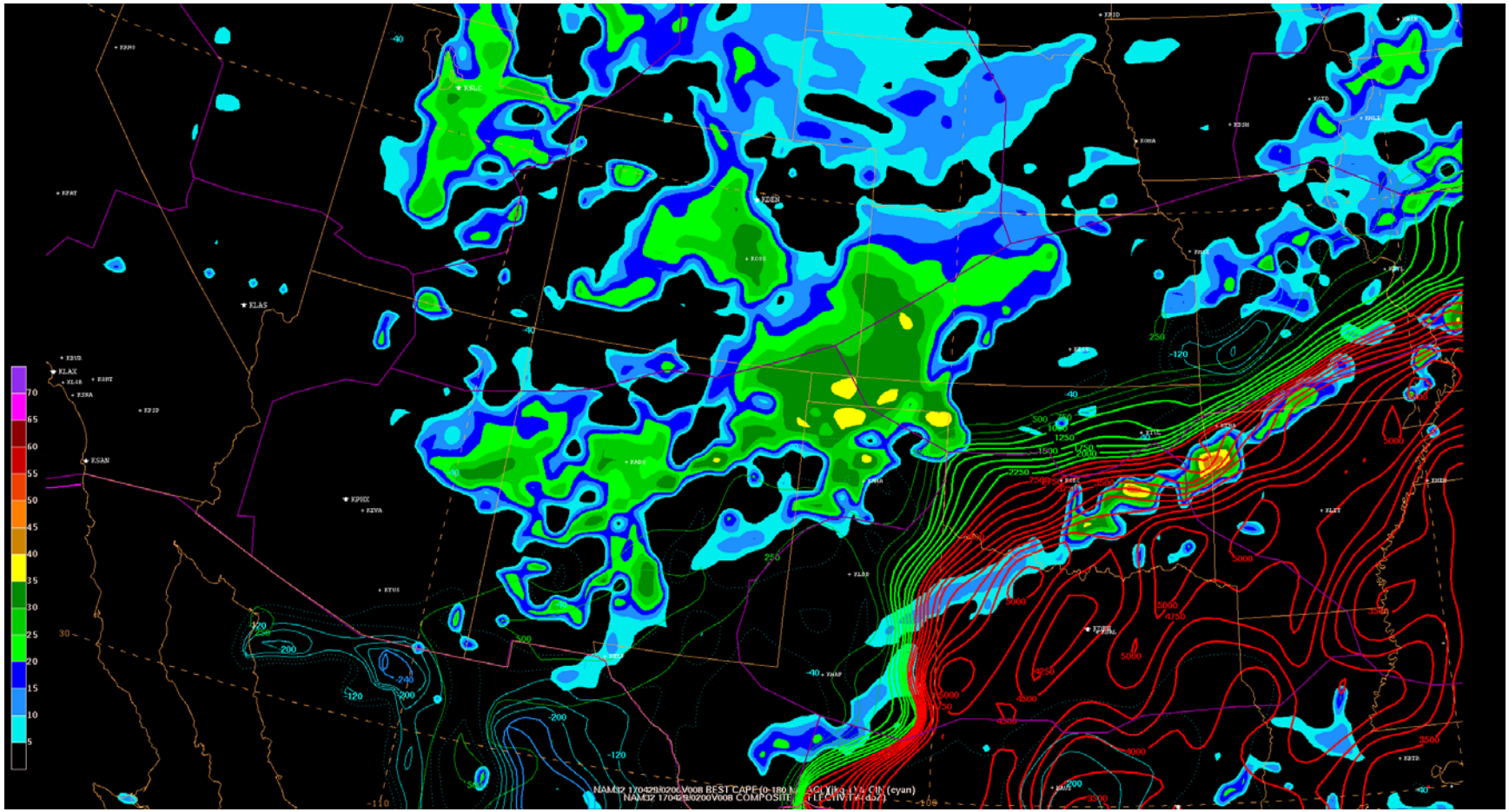
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SKEWT	HODO	PRINT	RESET	PARCEL	
icing	TURB	SAVE GIF			NEXT PAGE
Clouds	Exit	INSET	INTERP	OPTIONS	Show Text

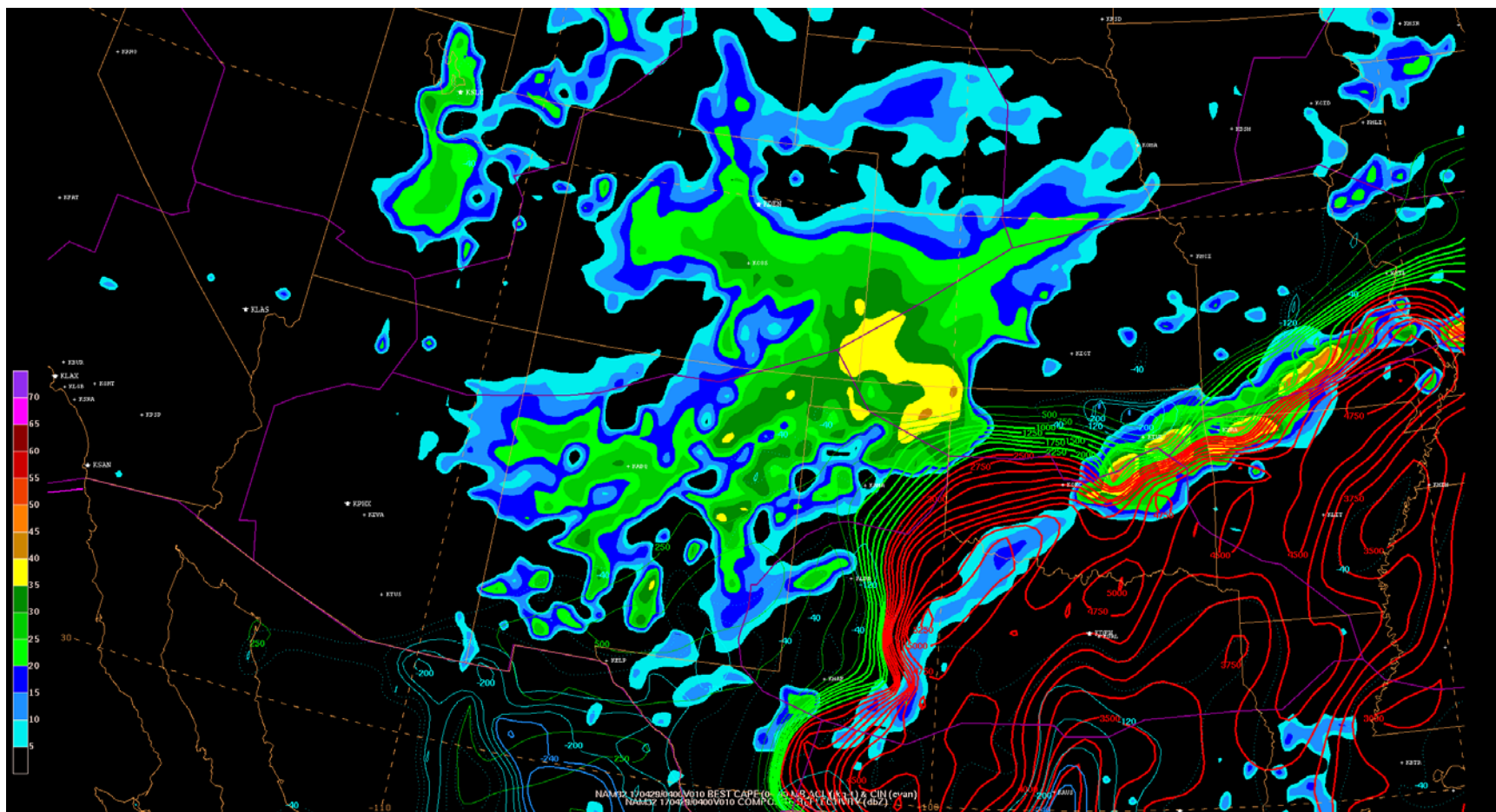
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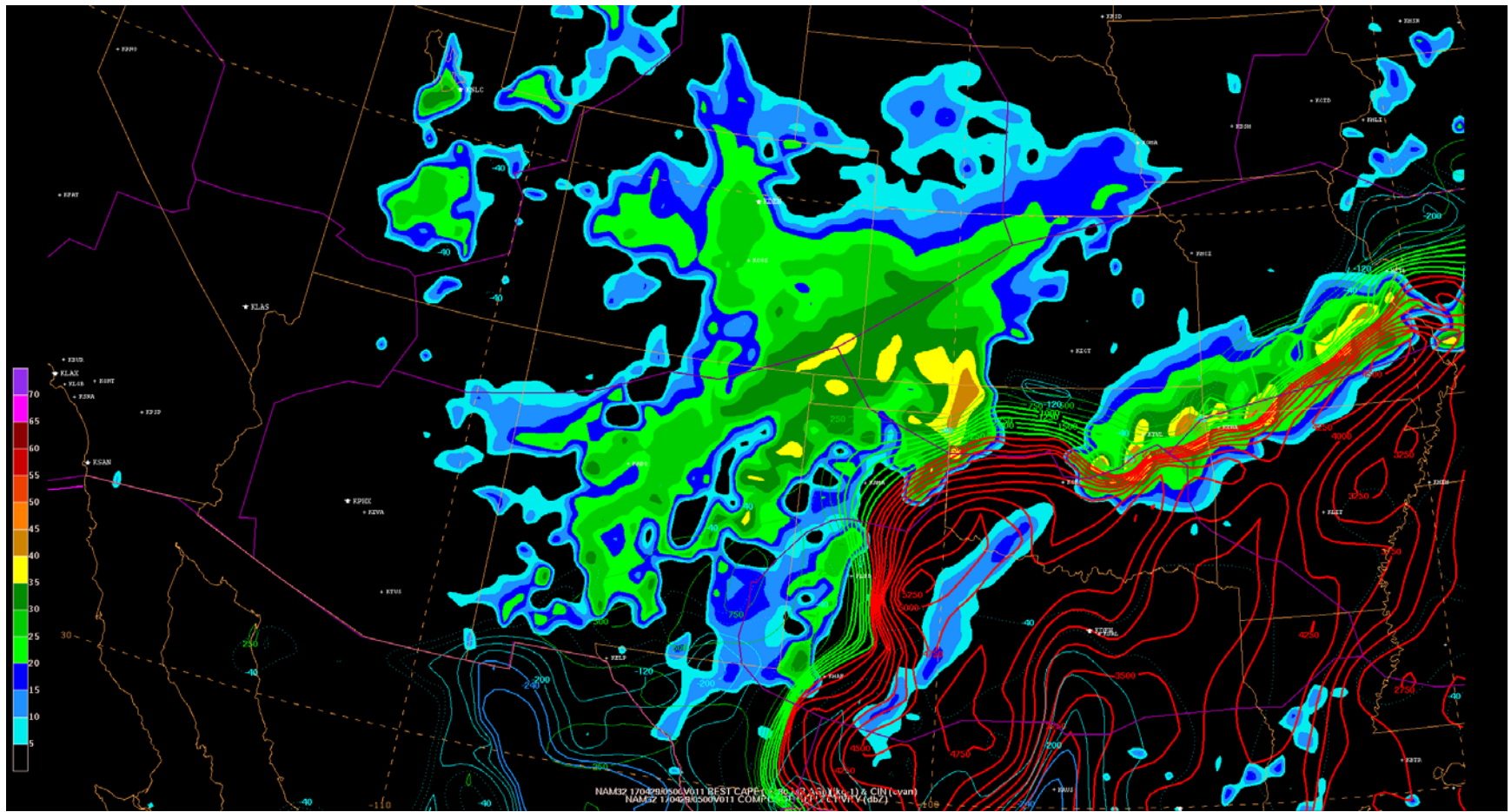


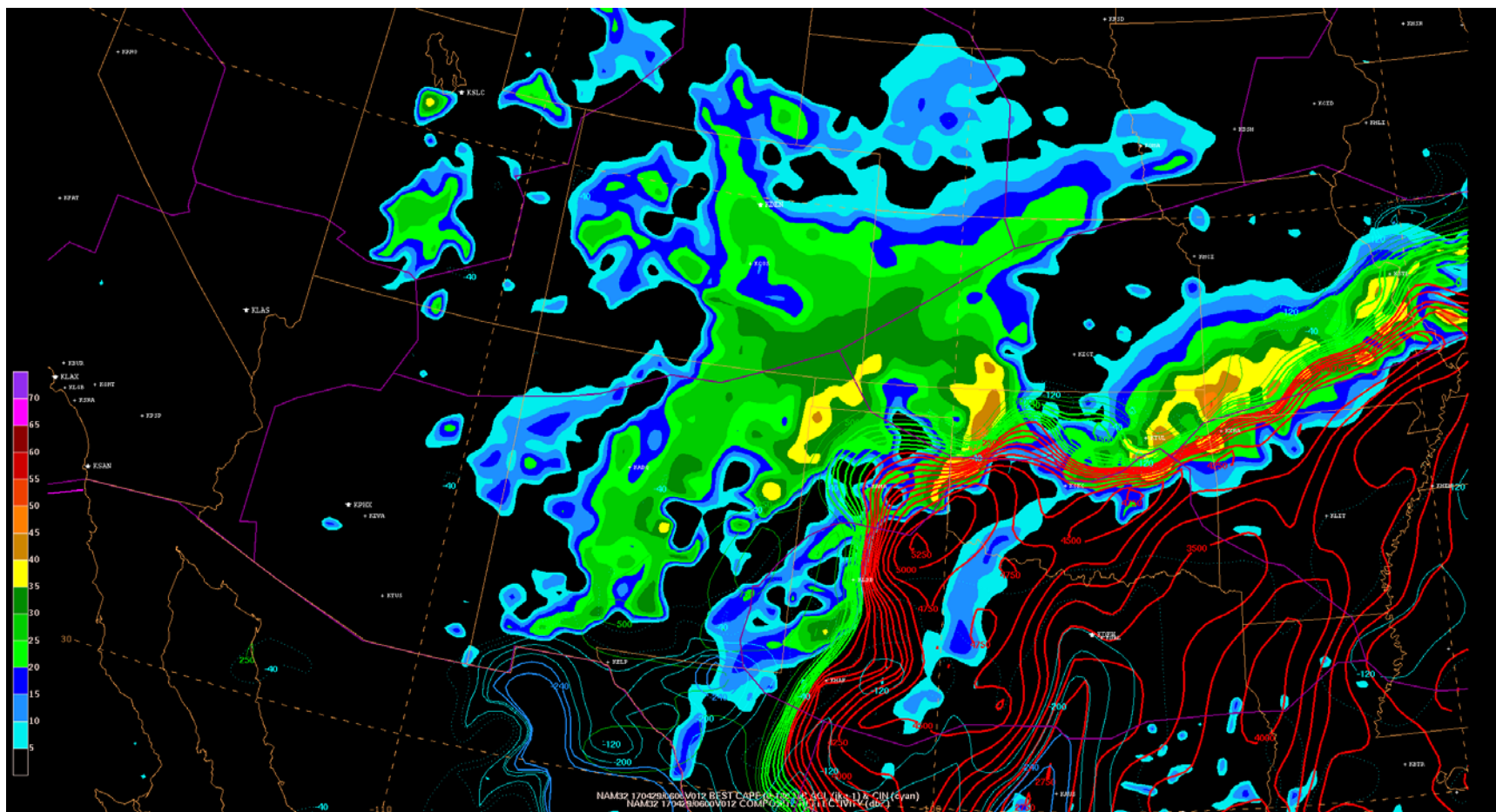


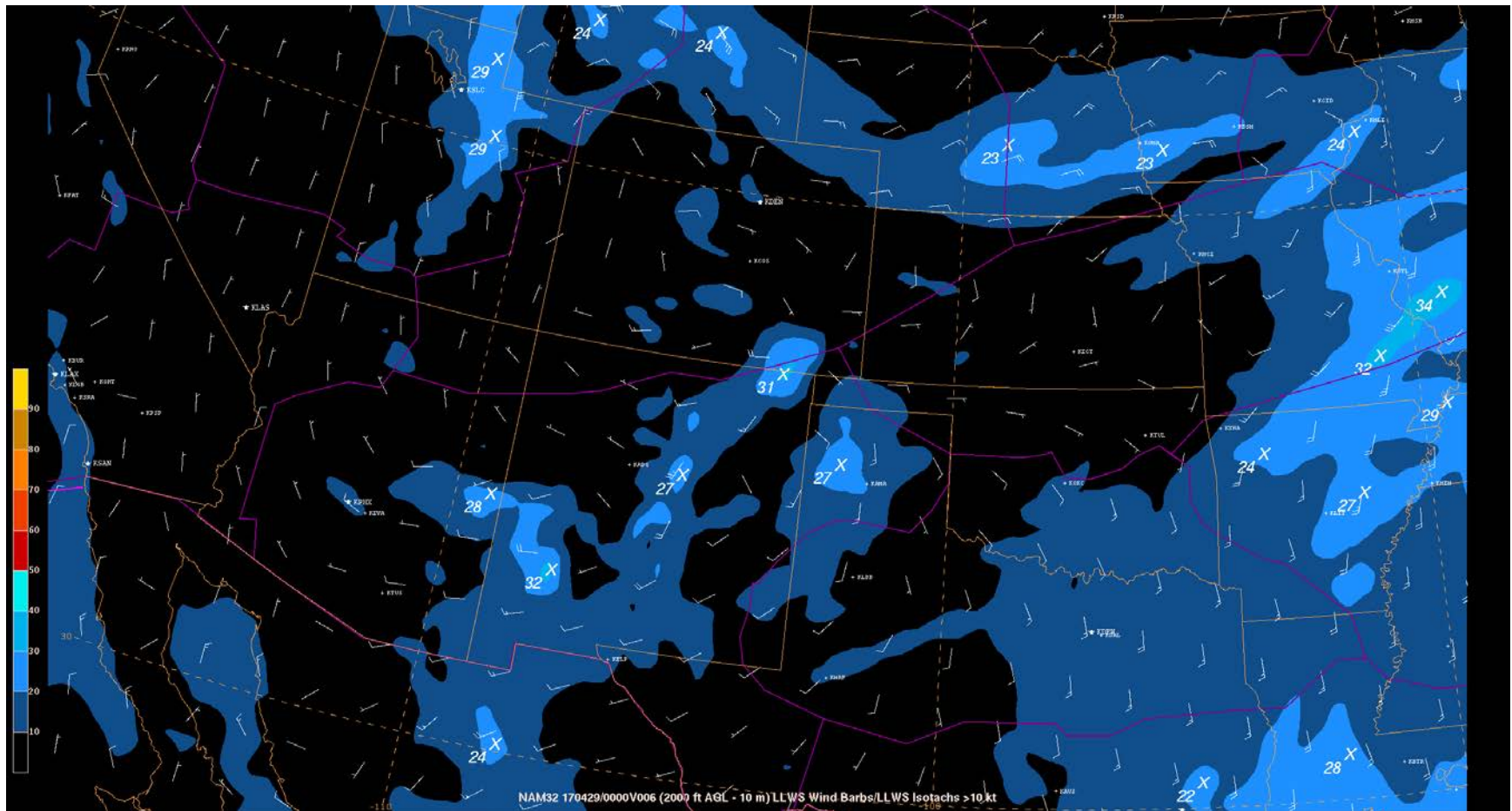


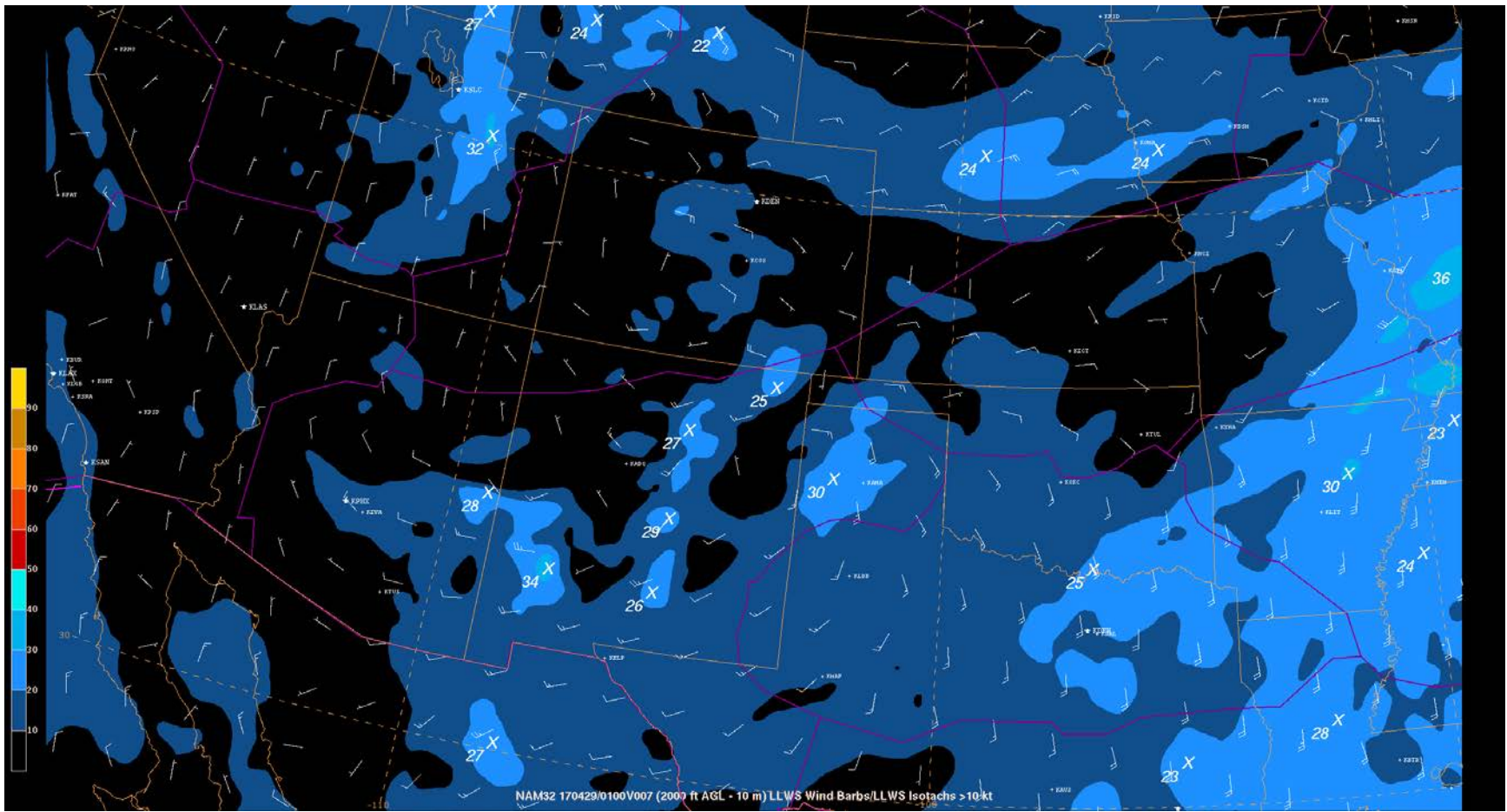


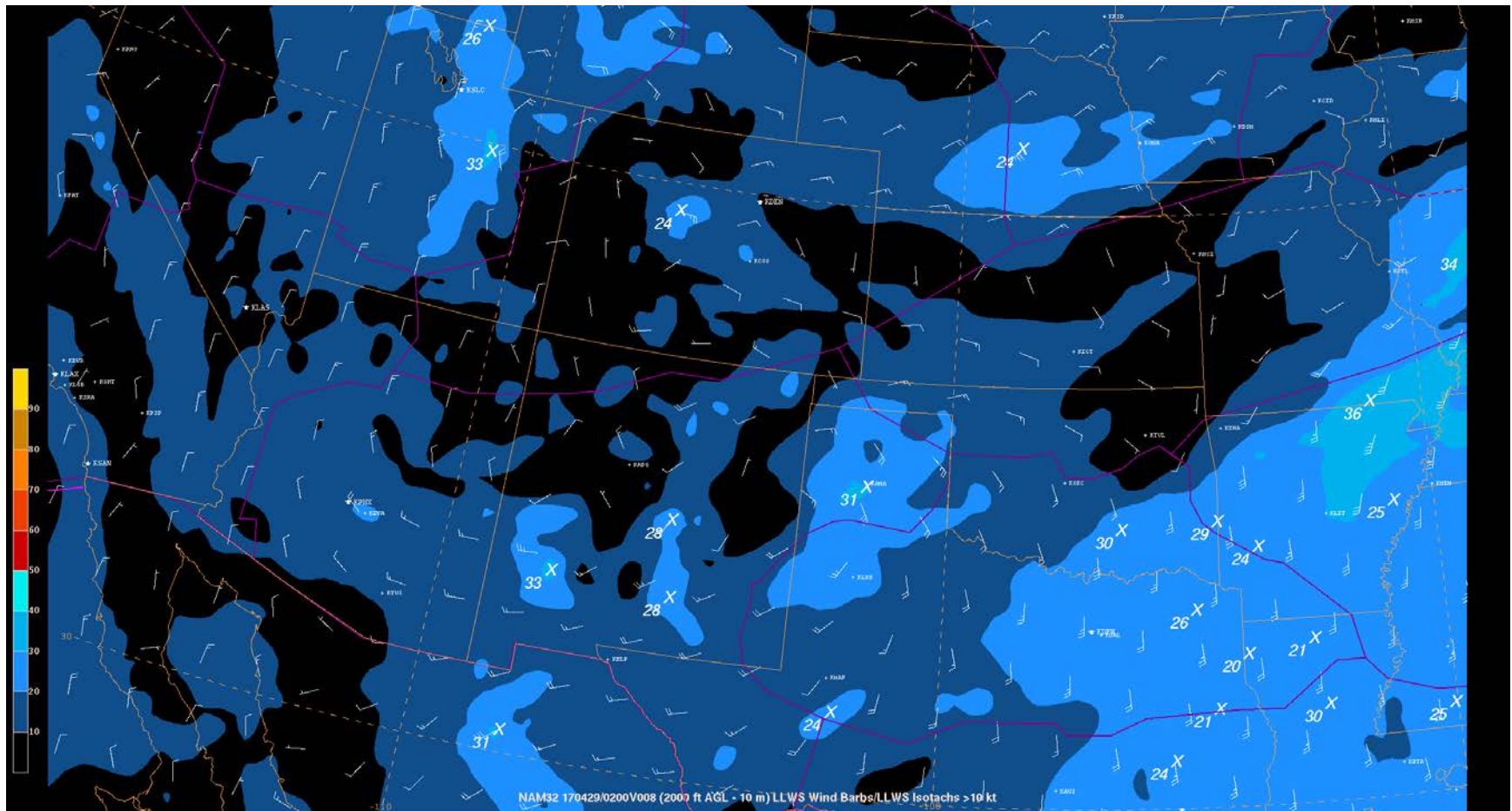


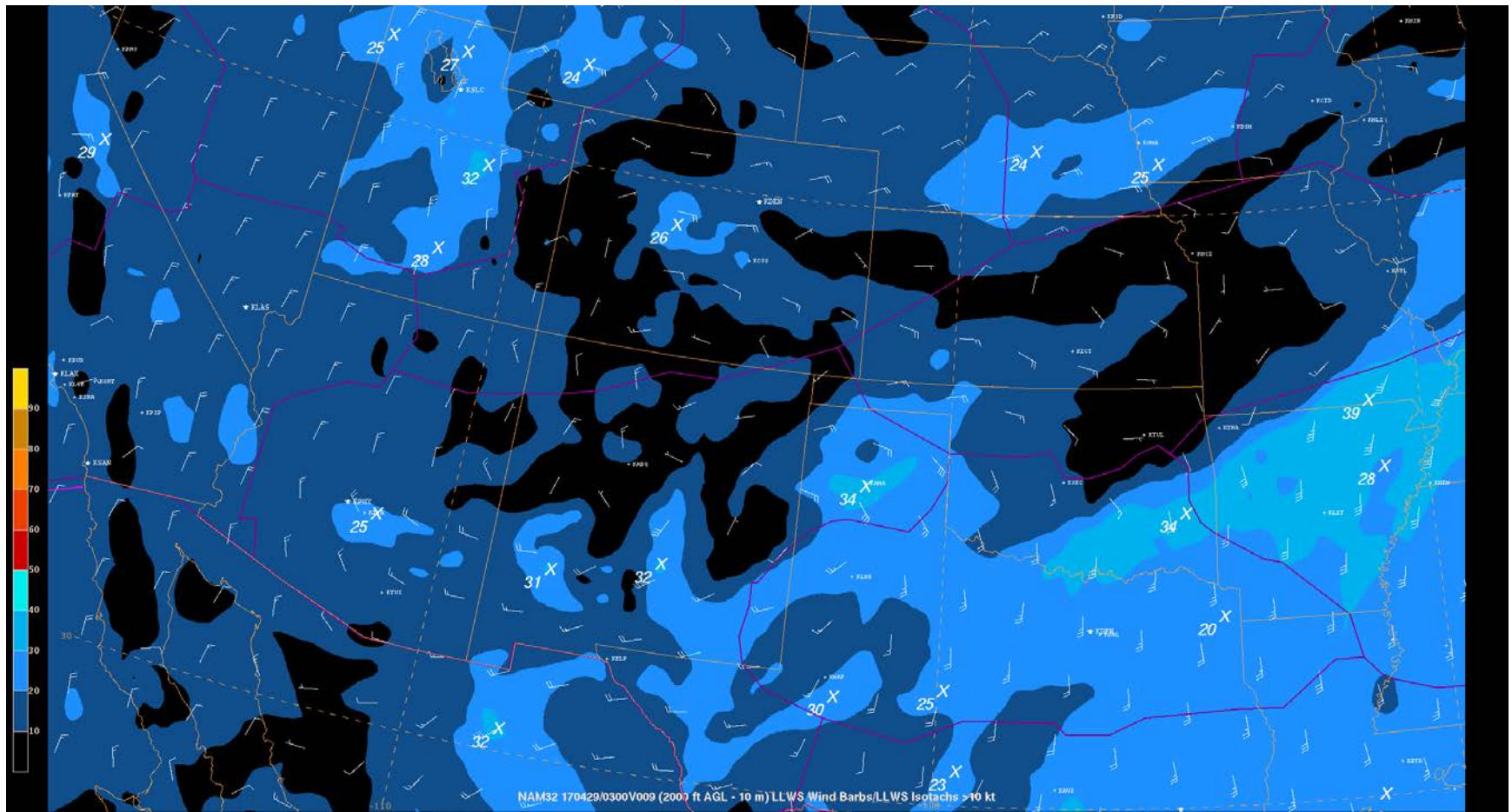


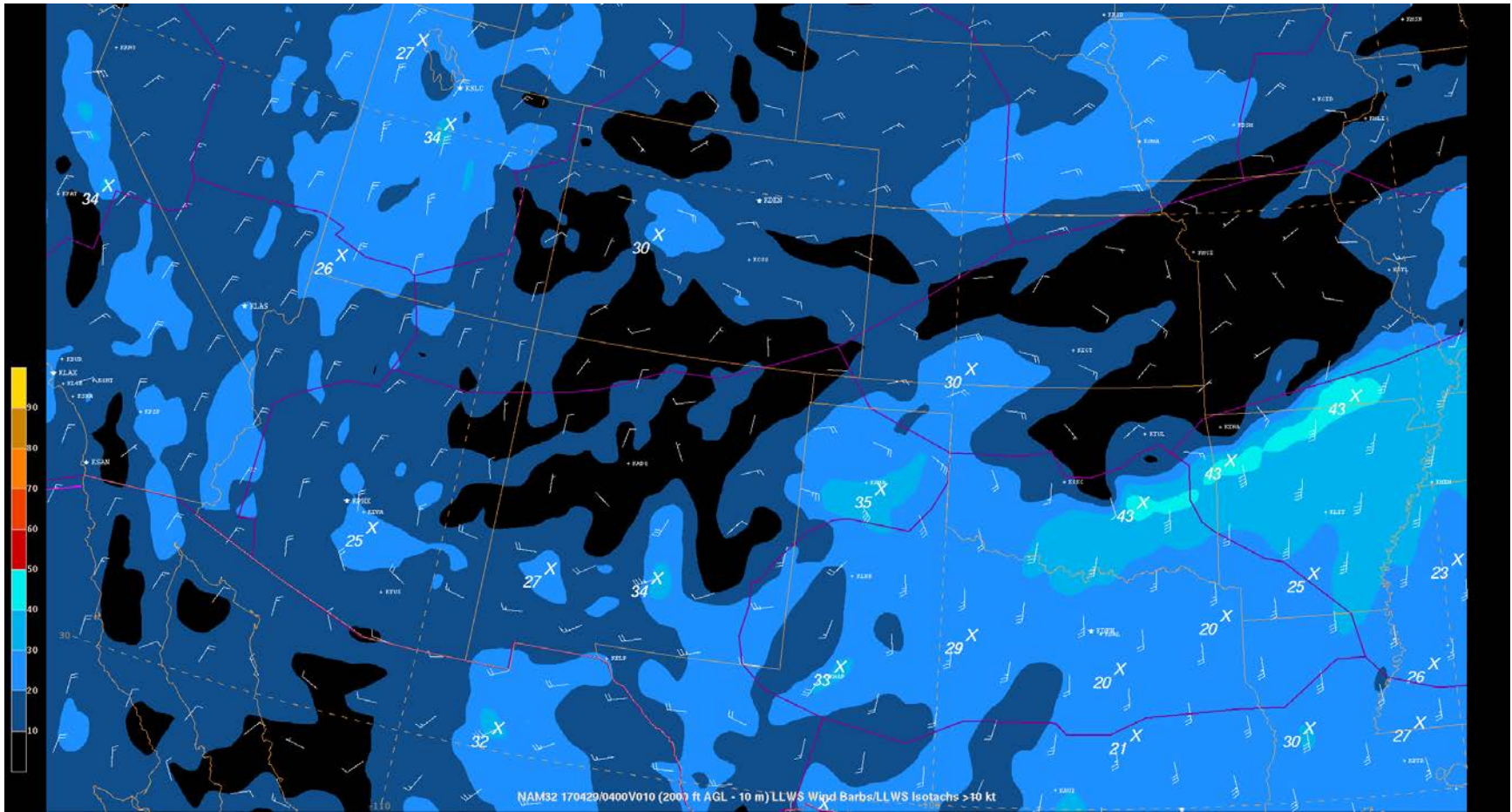


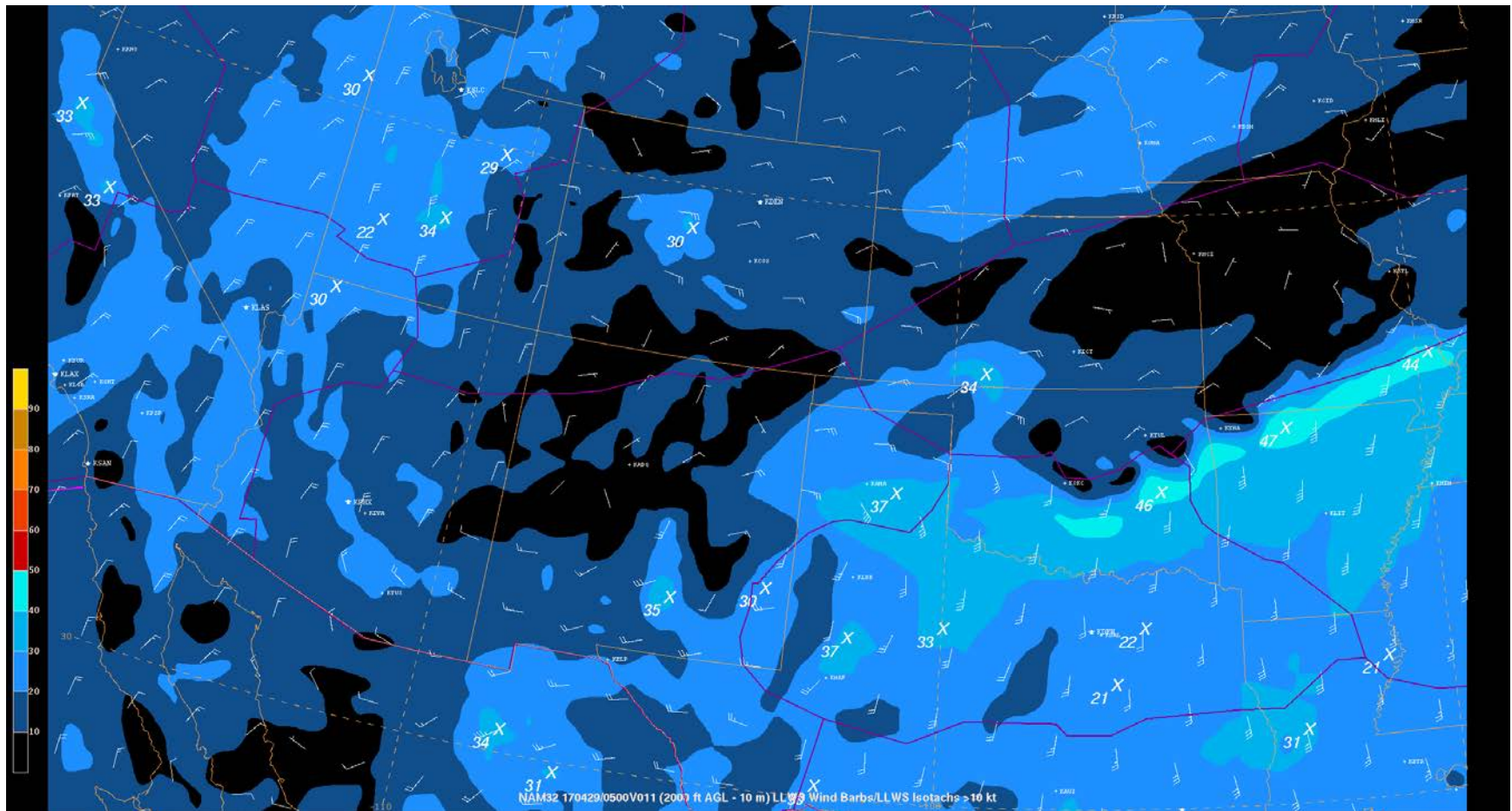




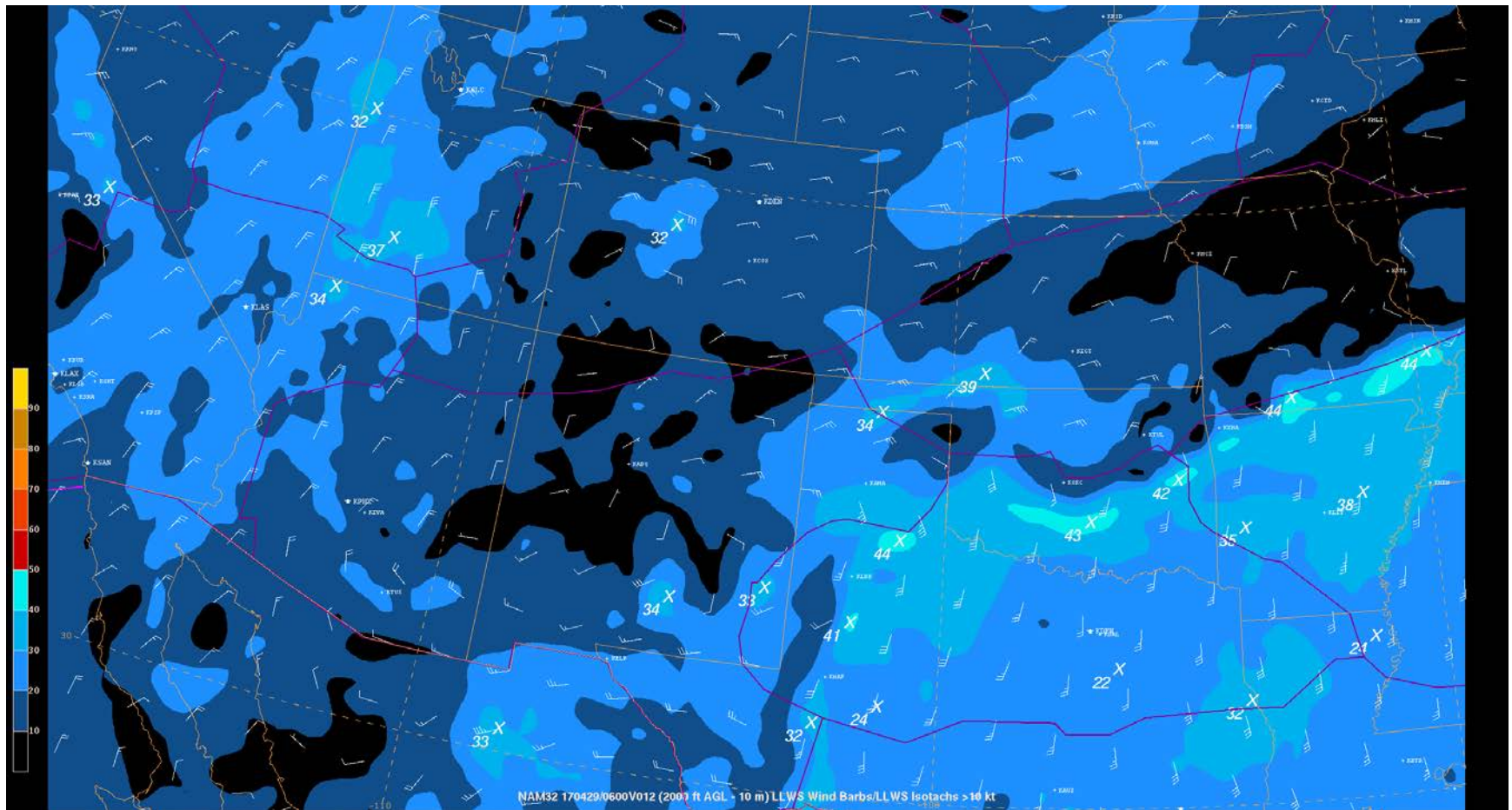


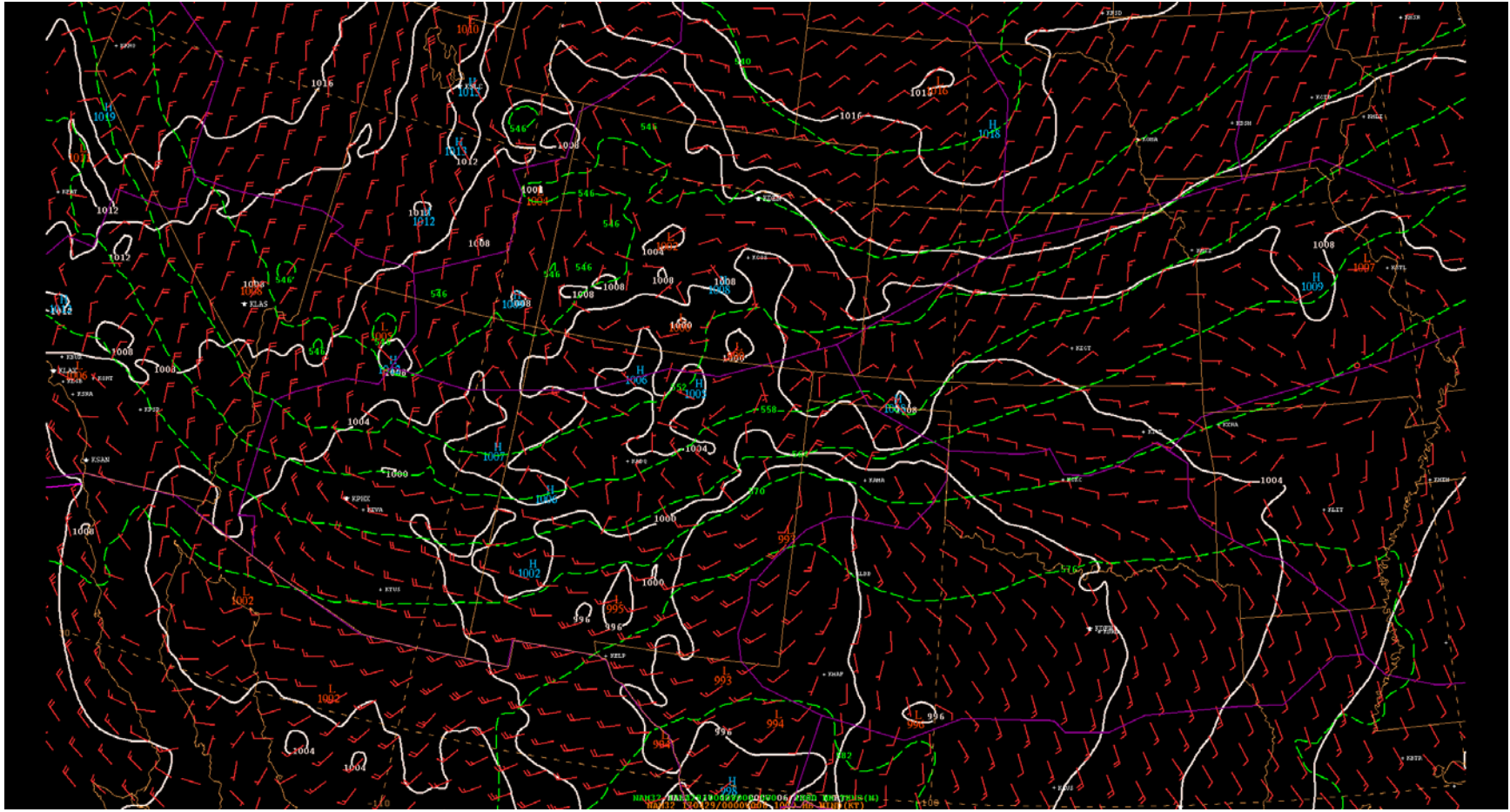


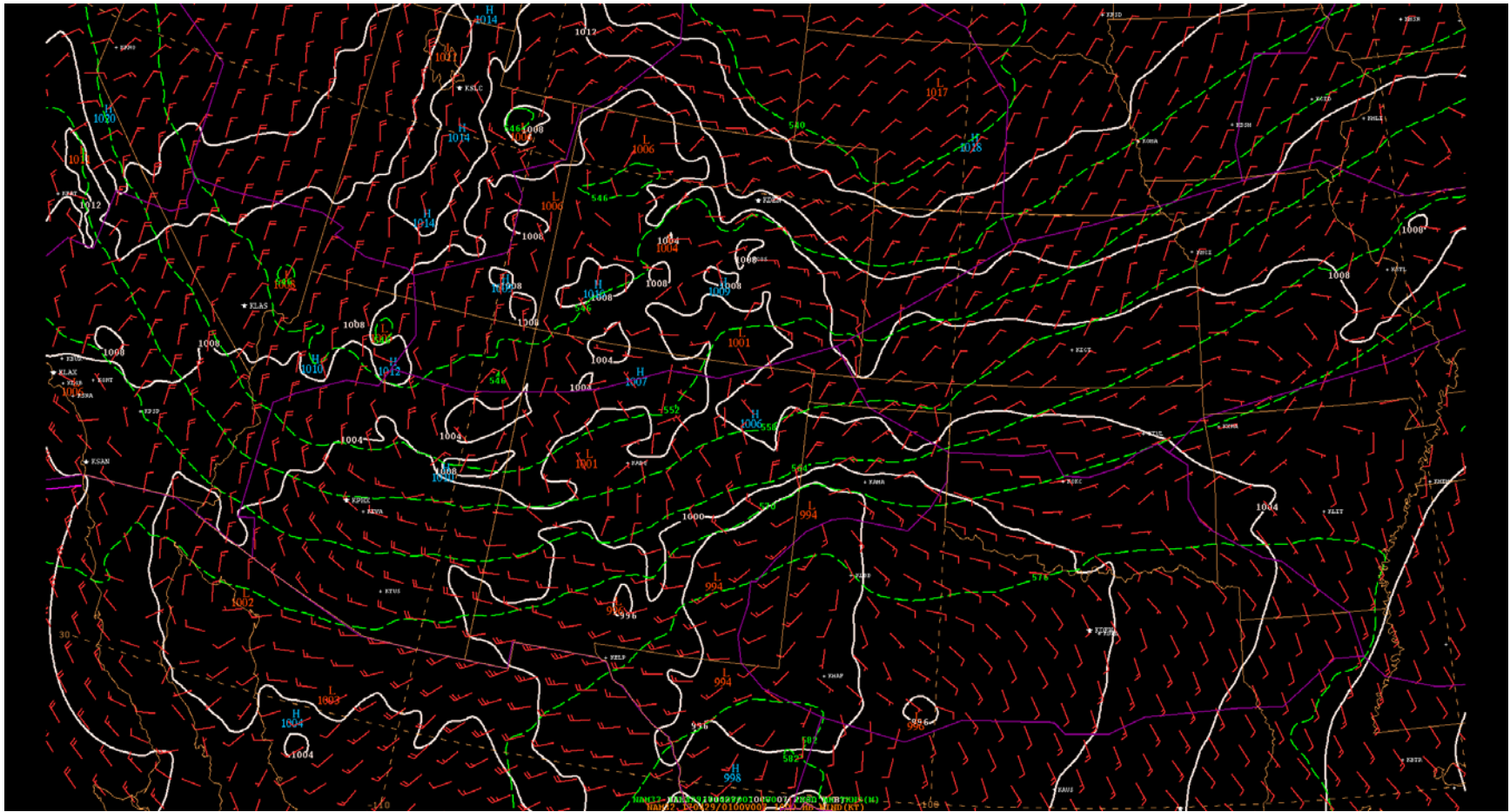


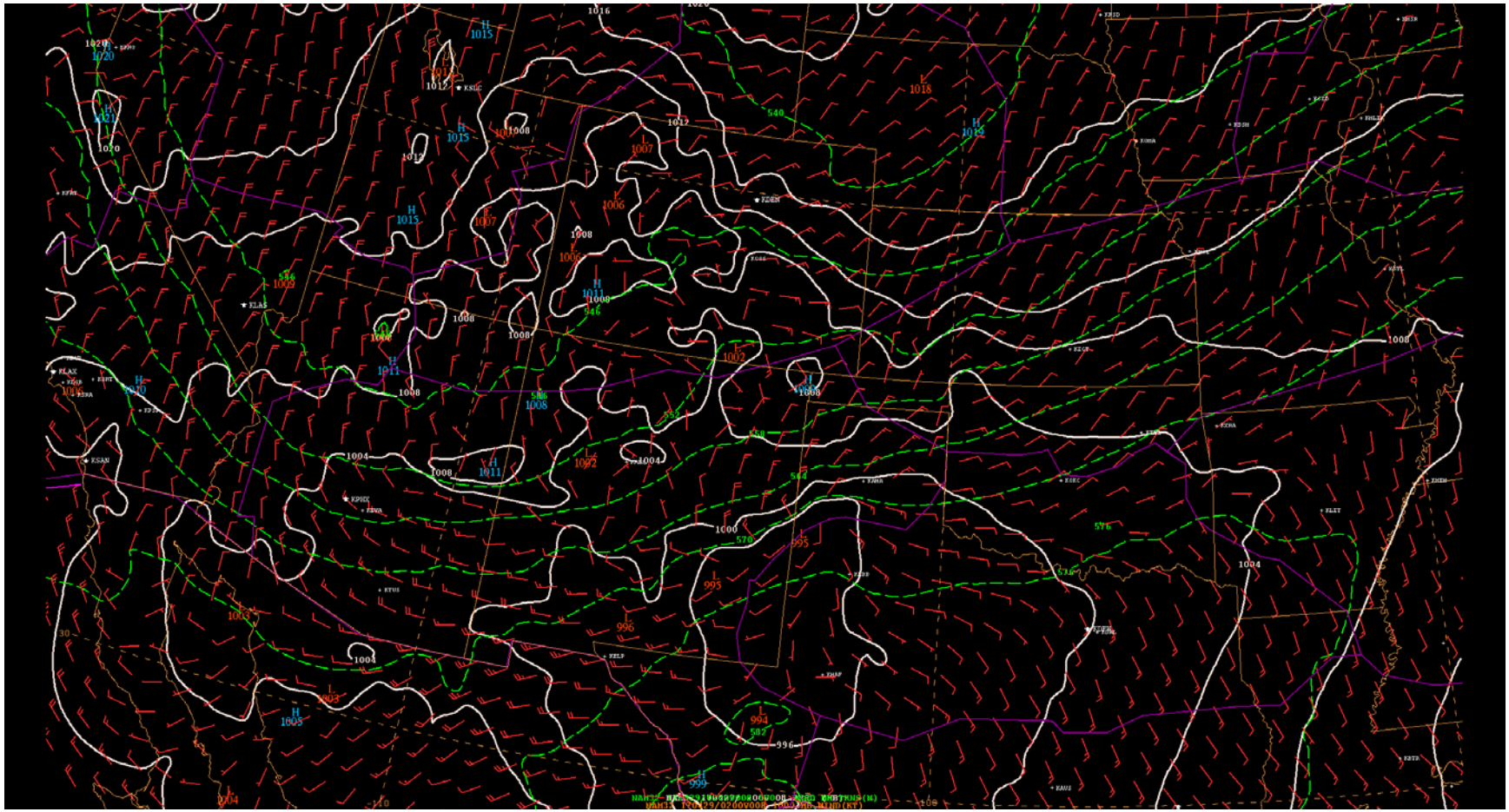


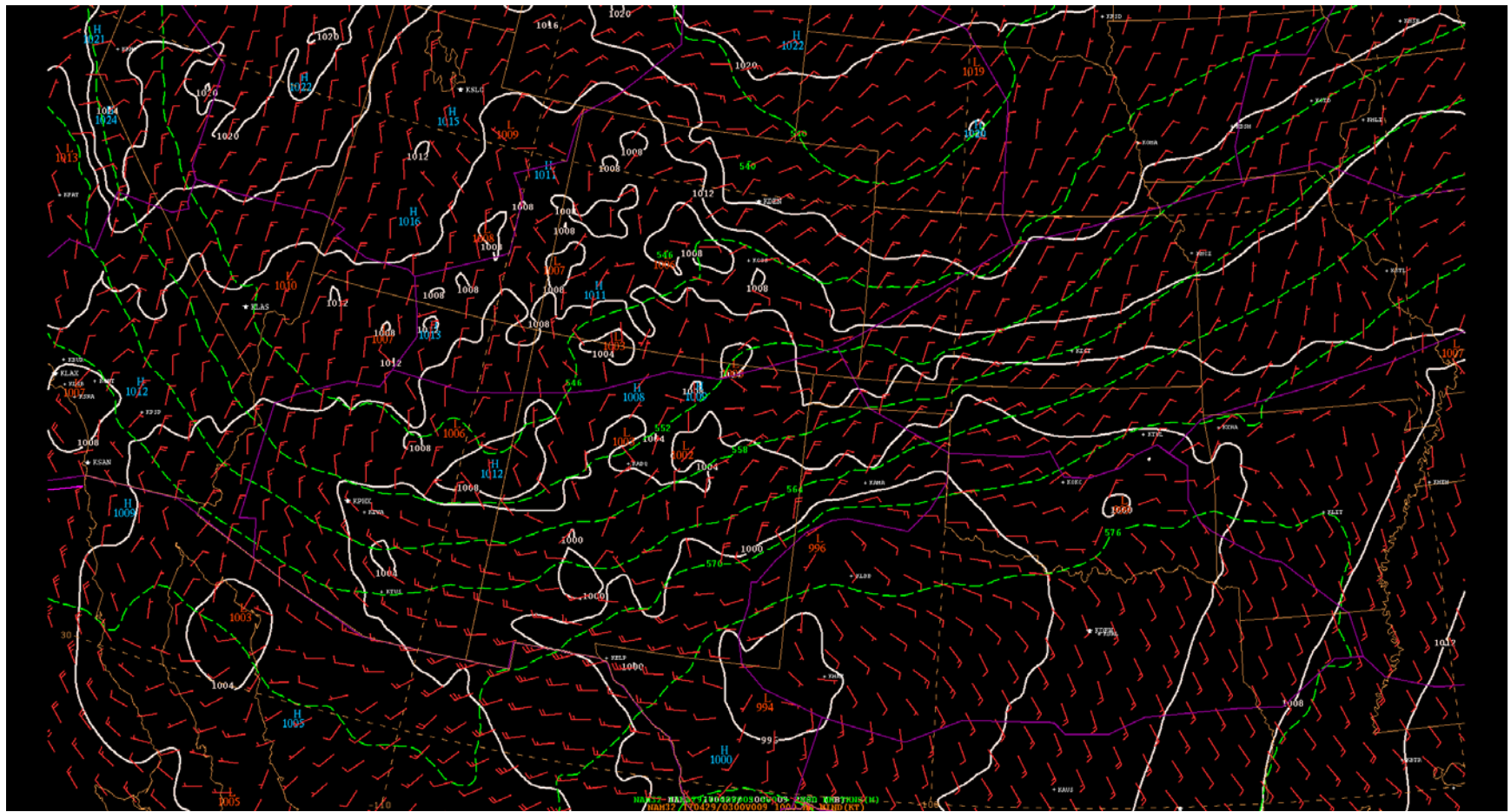


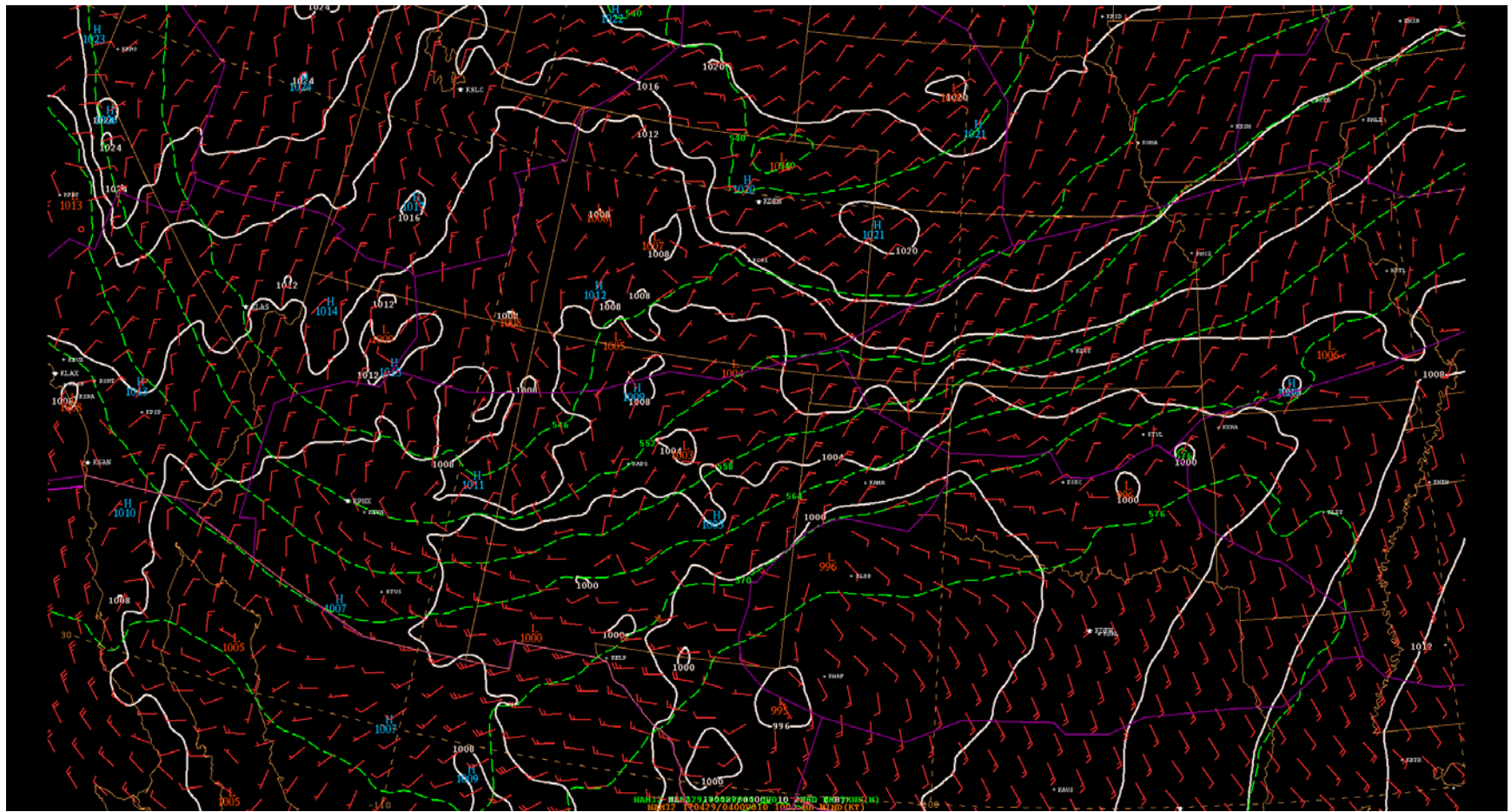




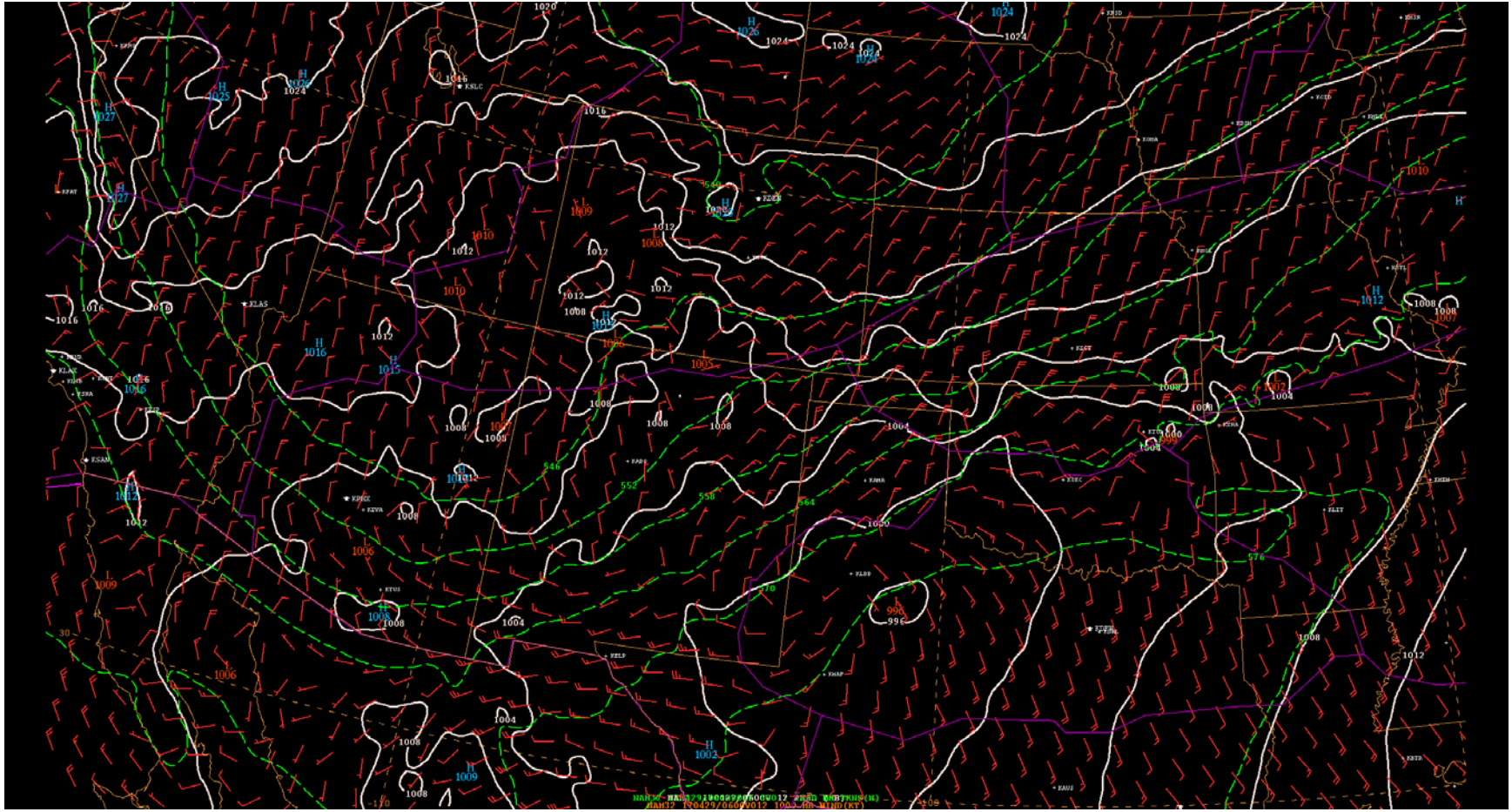




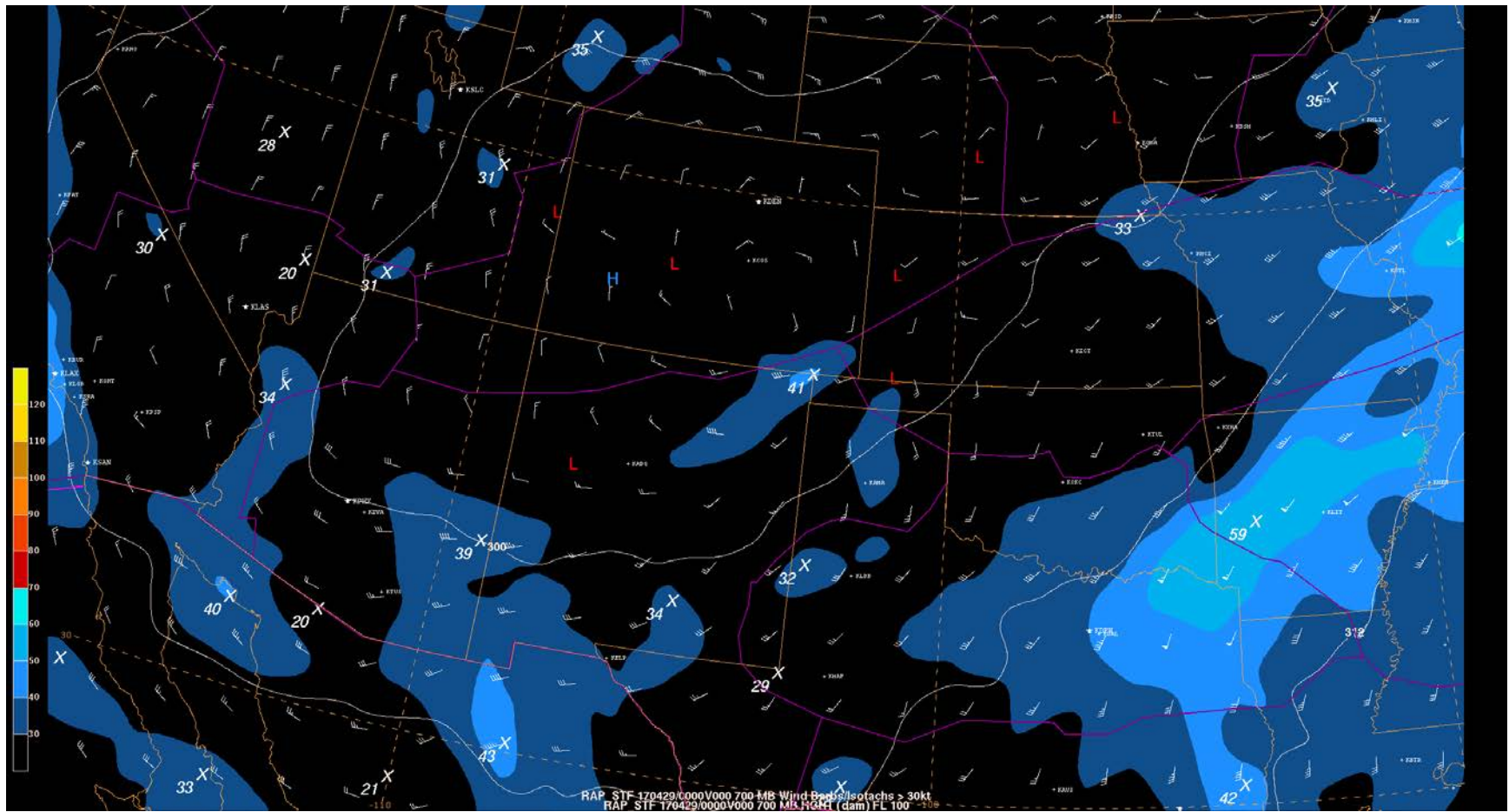


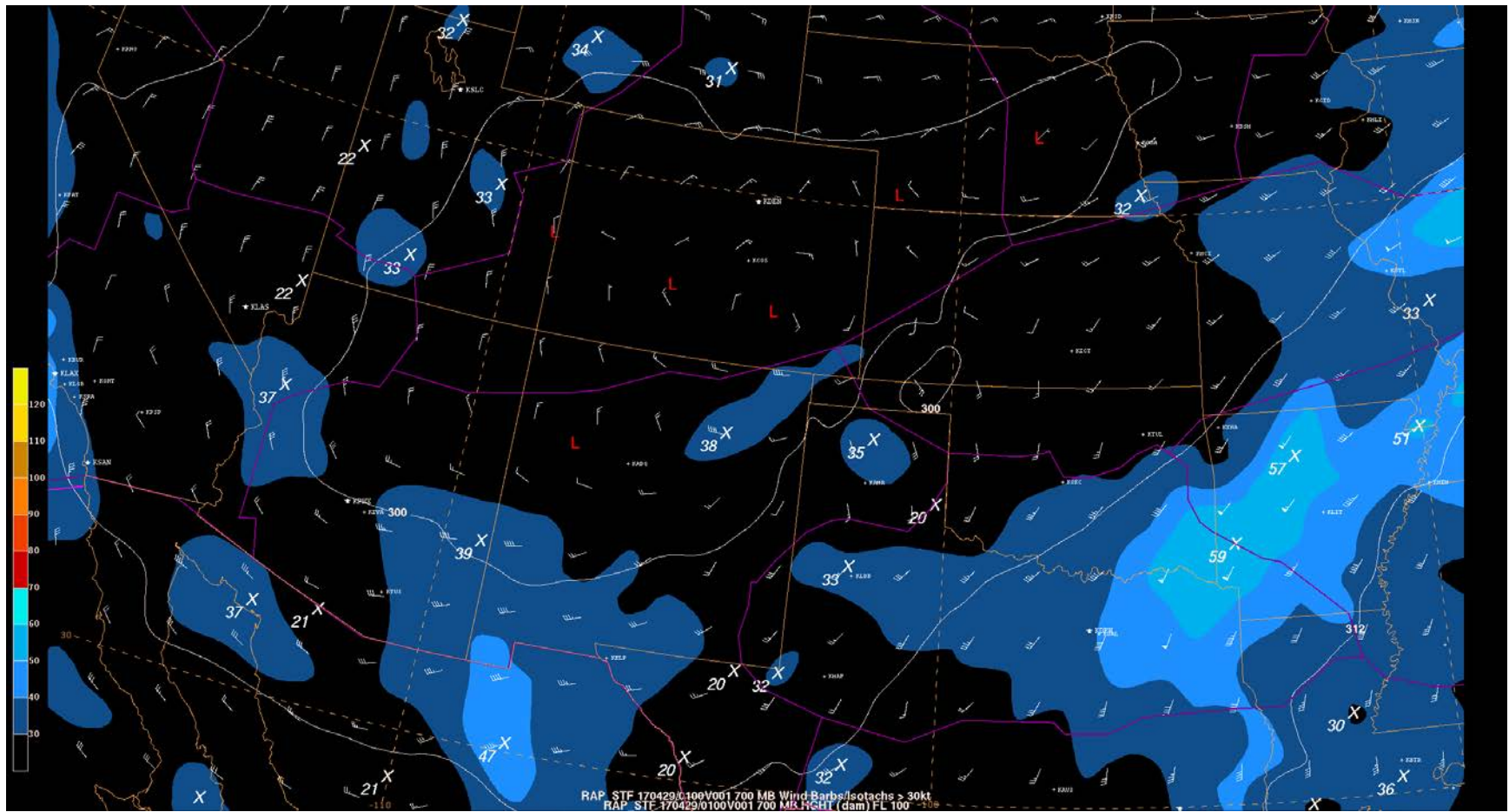


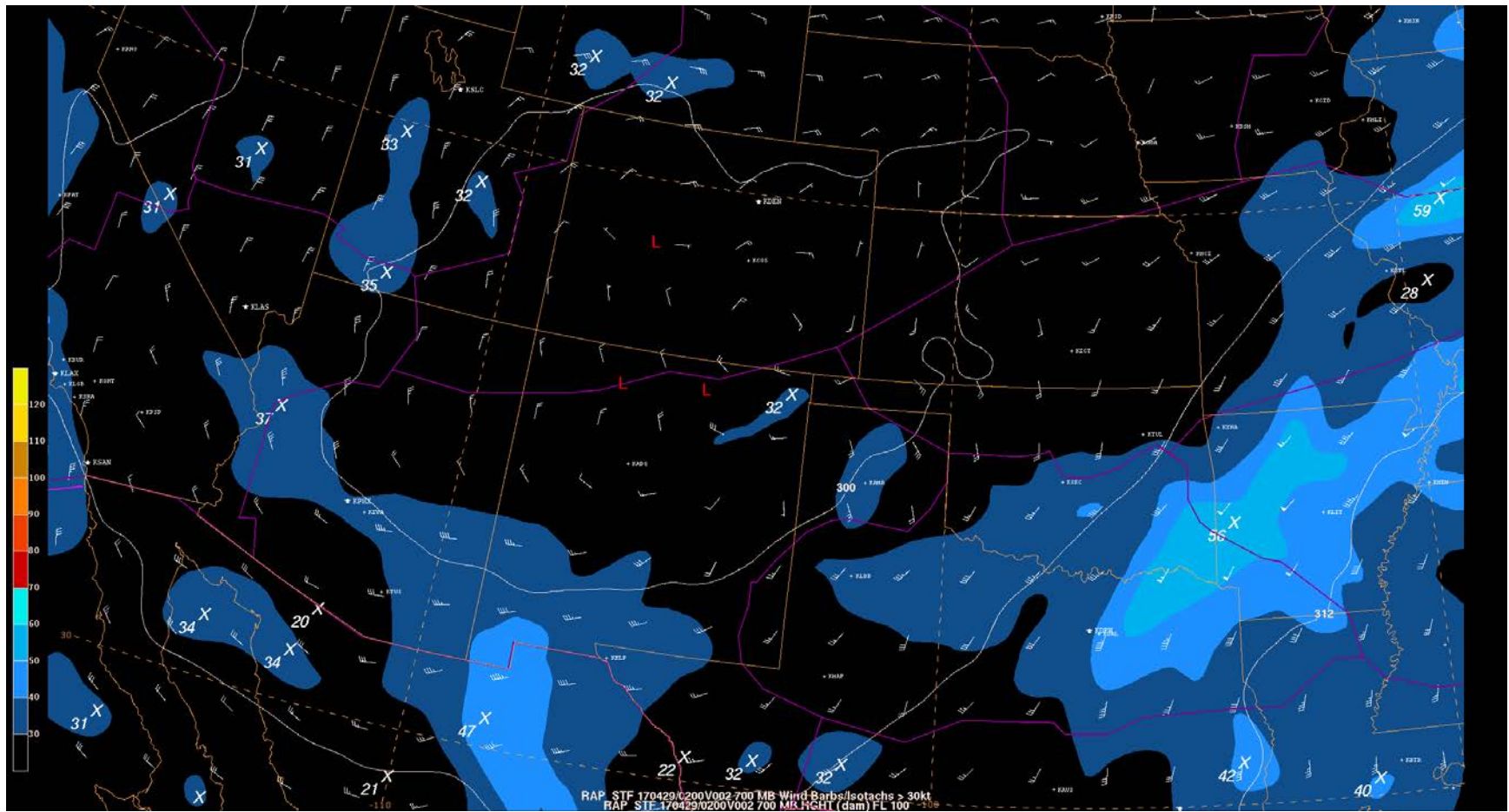


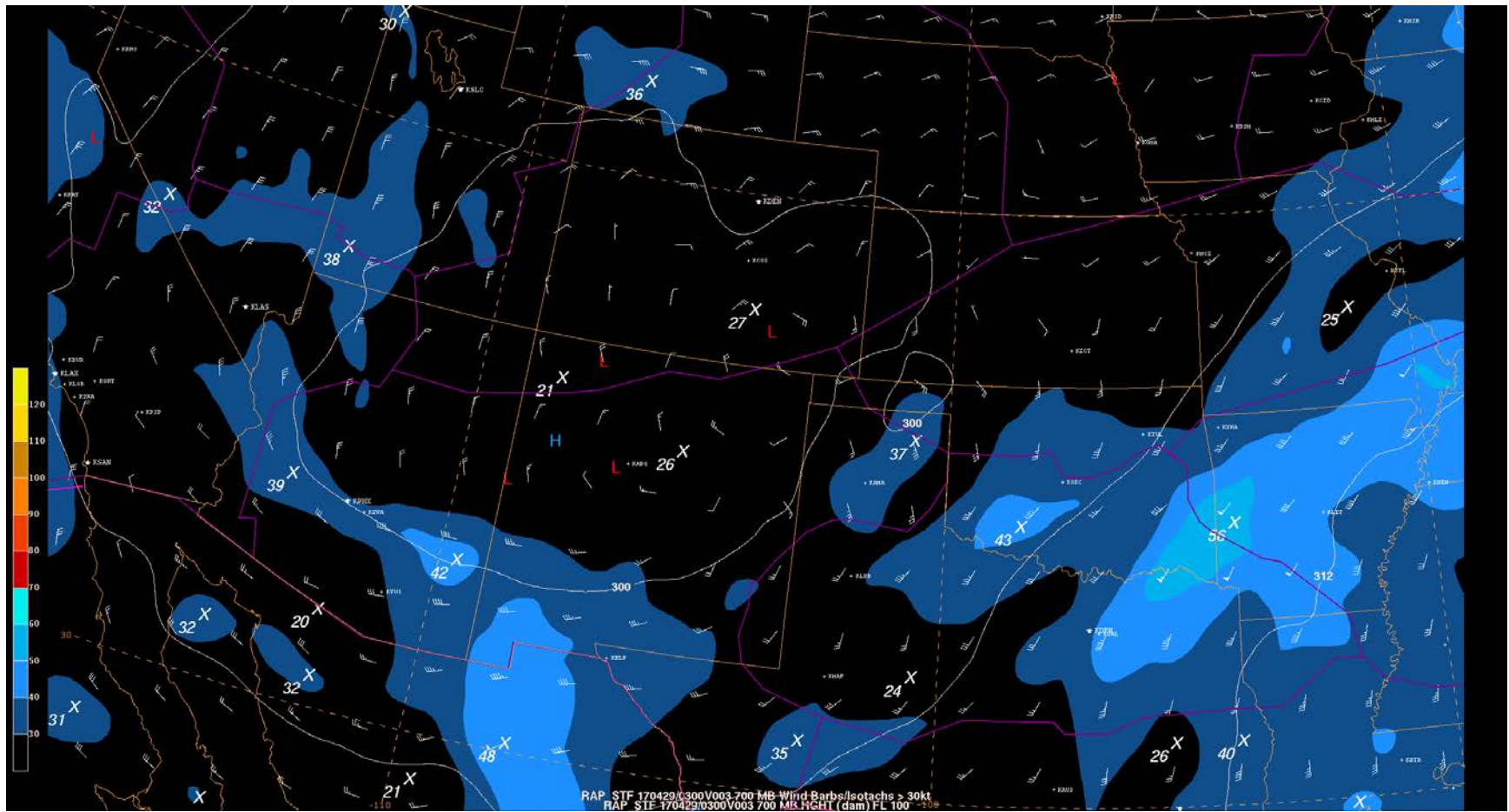


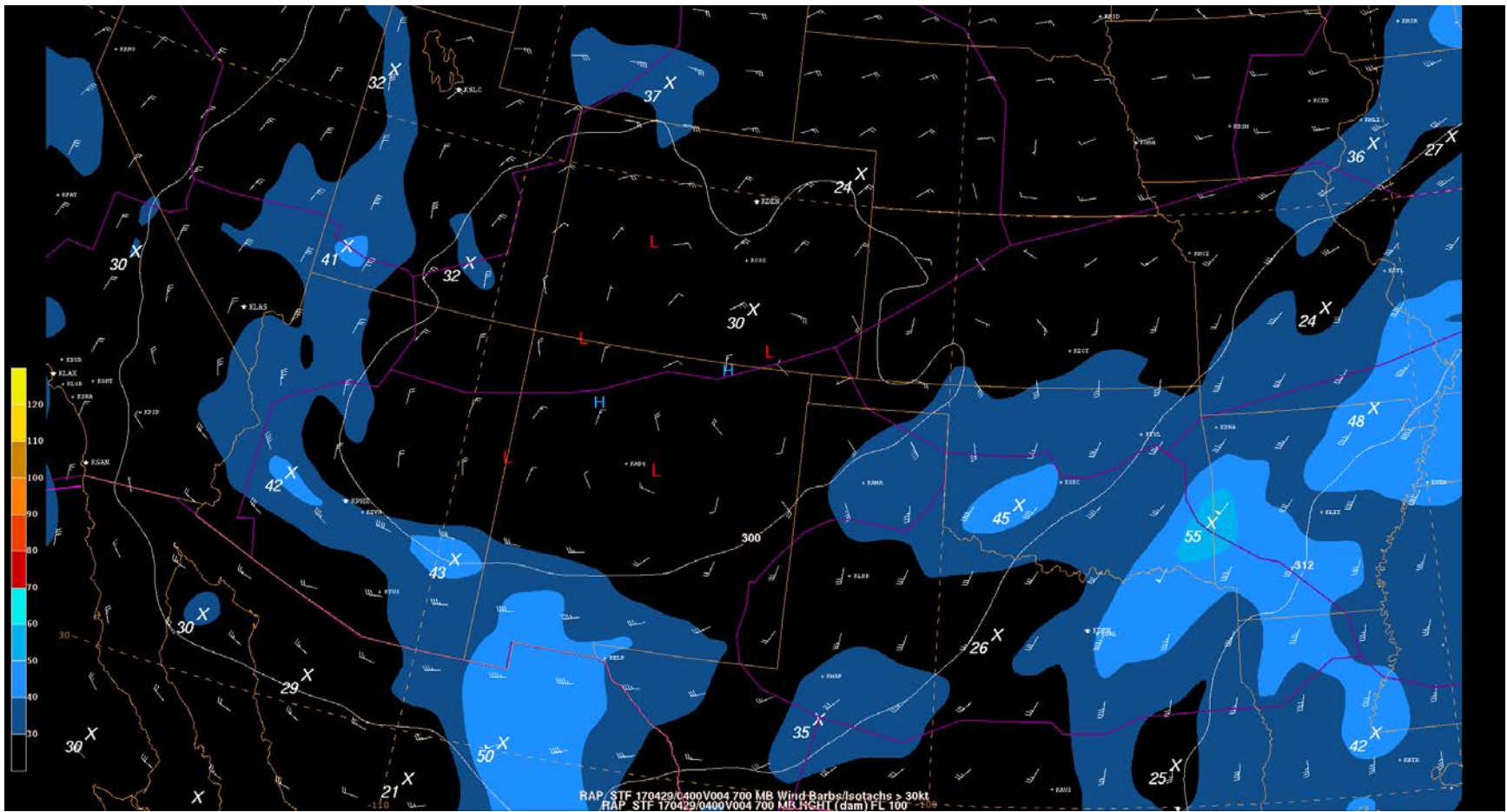


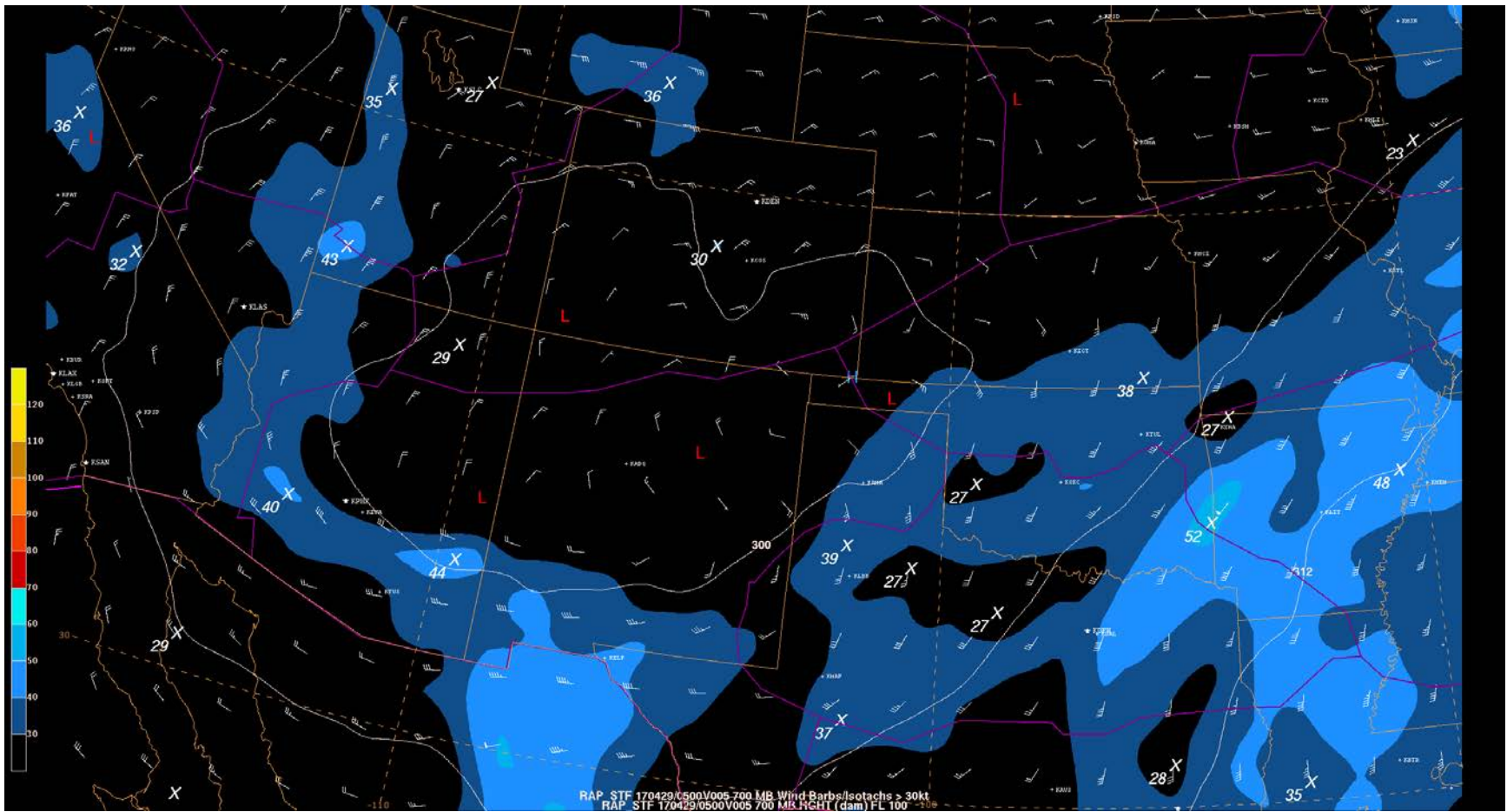


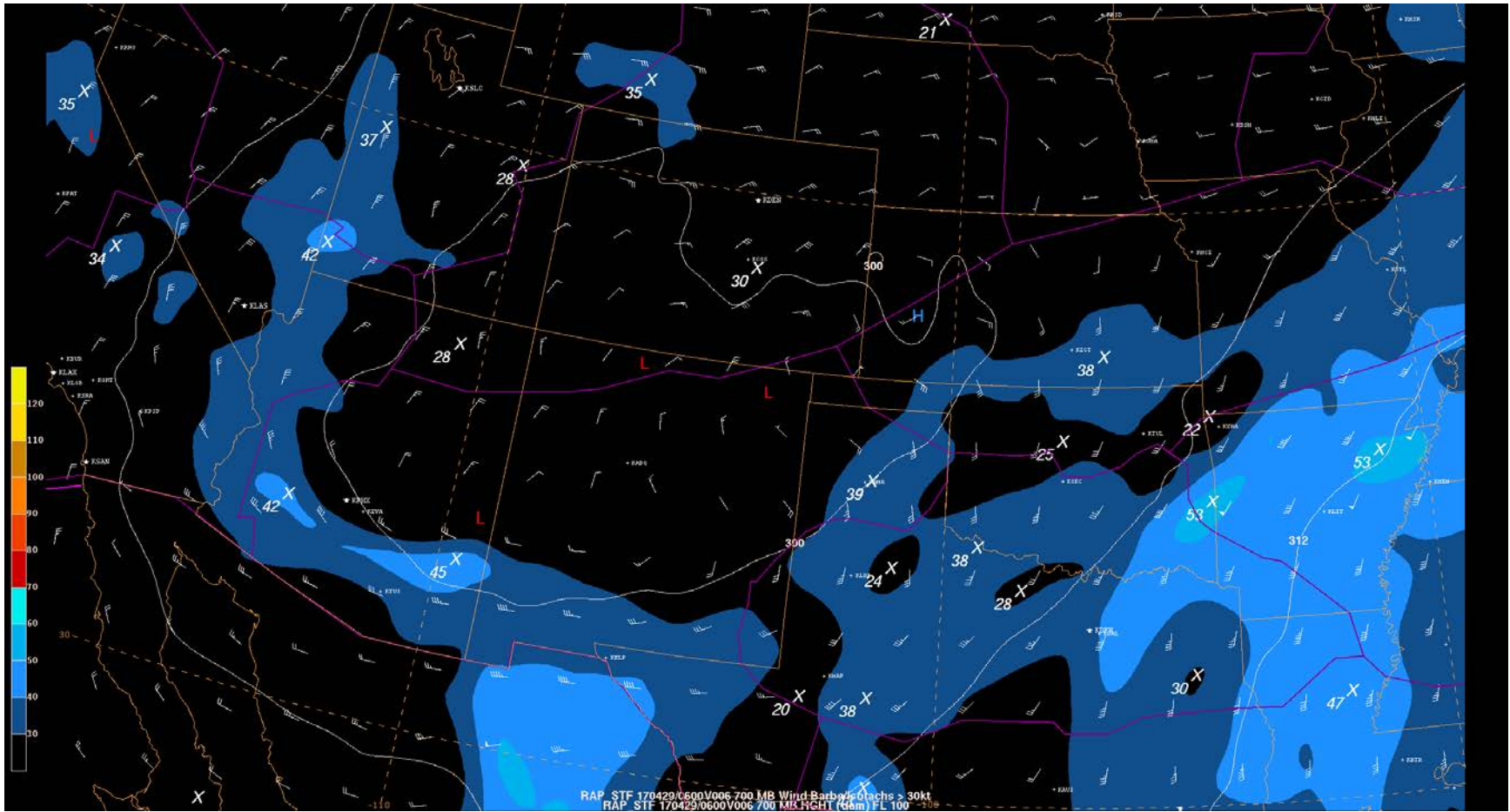


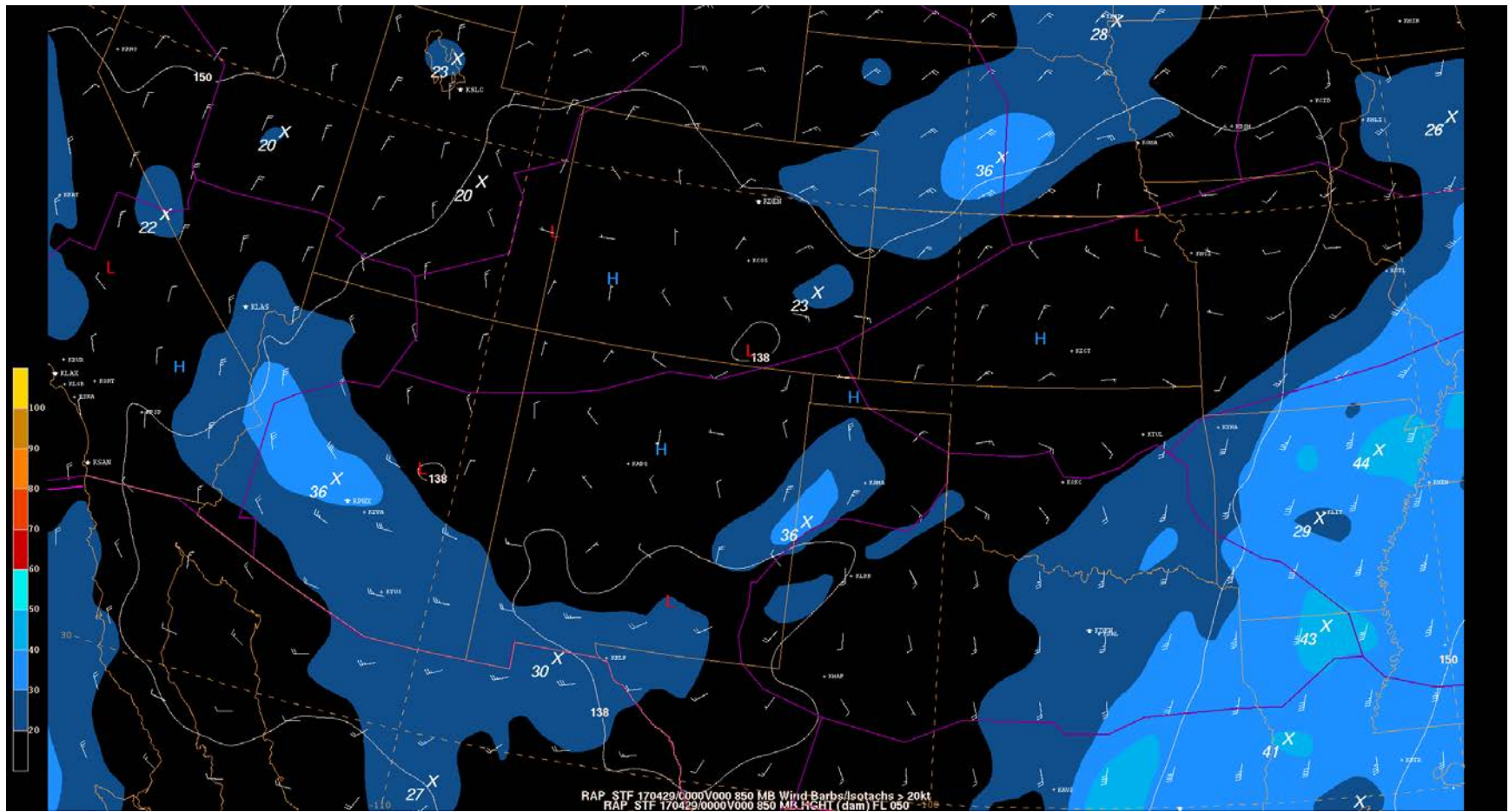




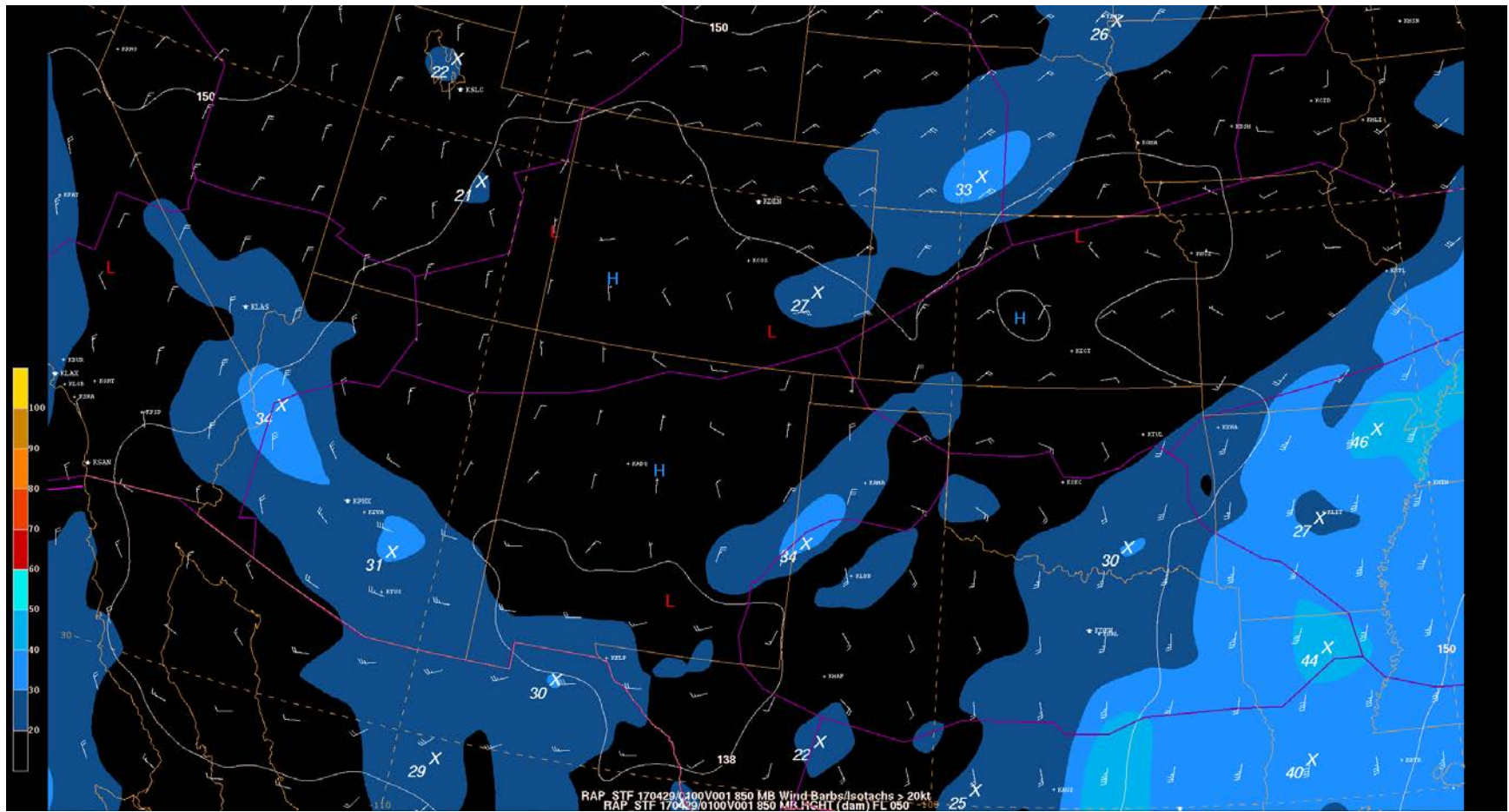


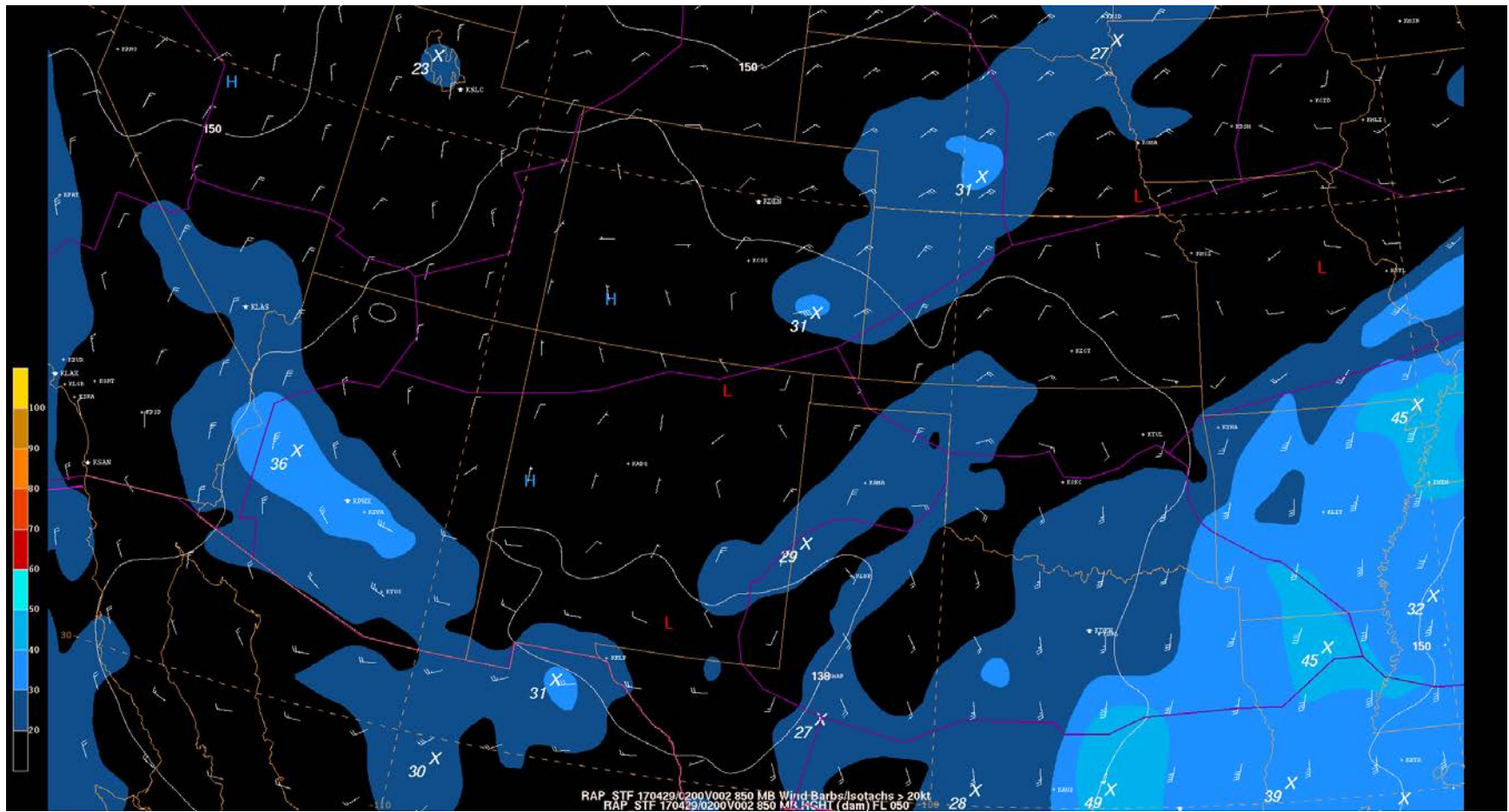


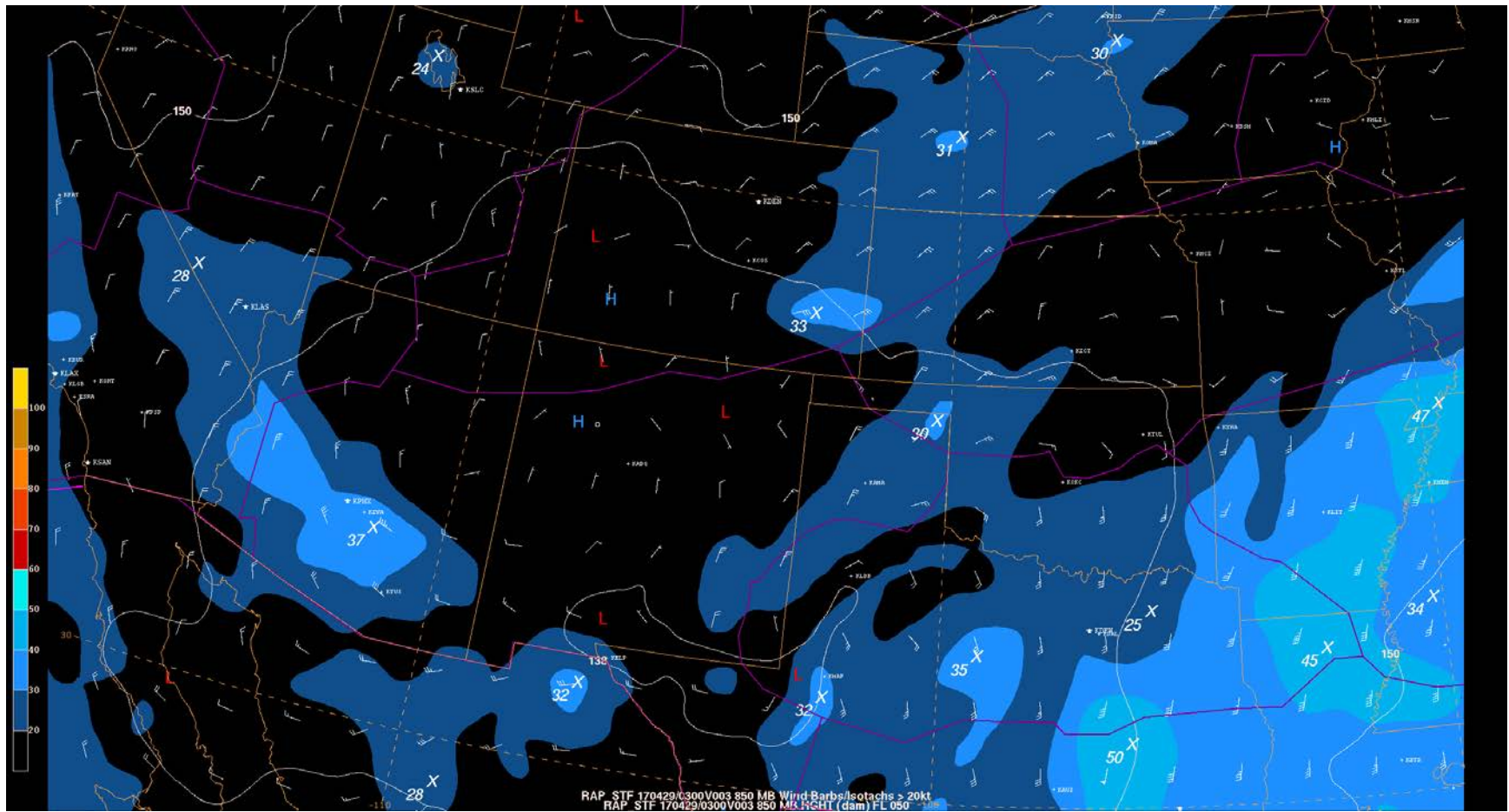


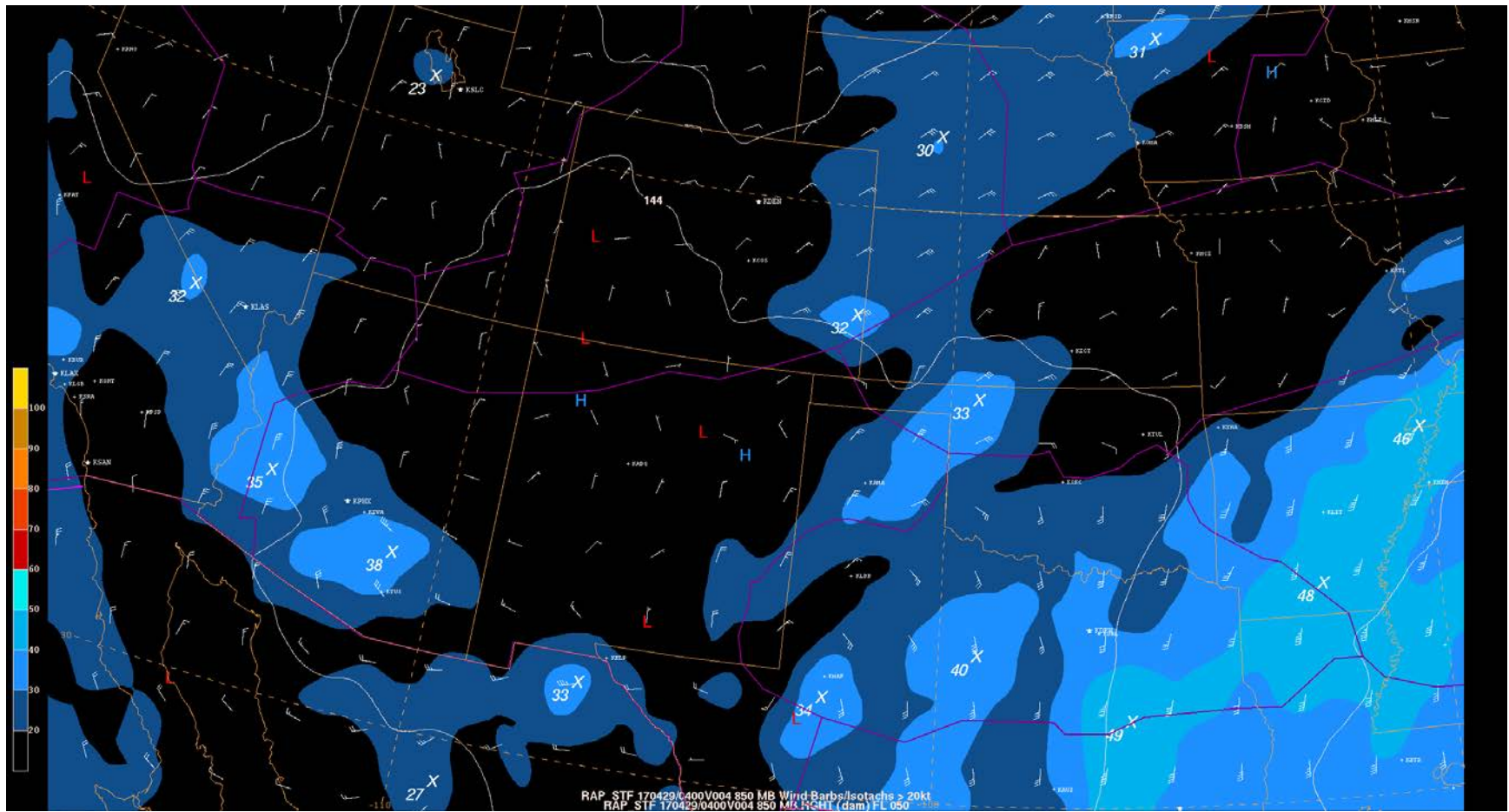


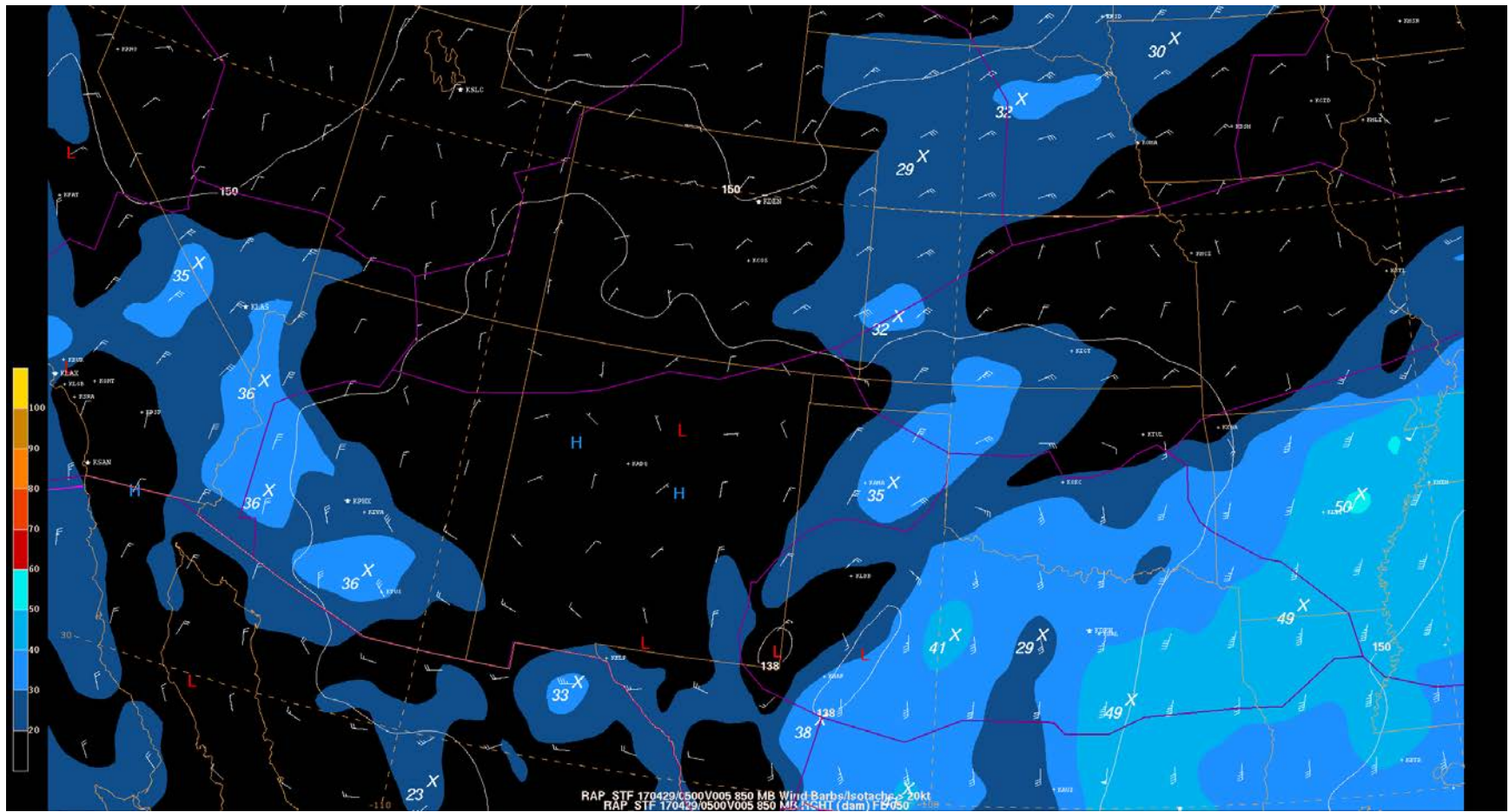


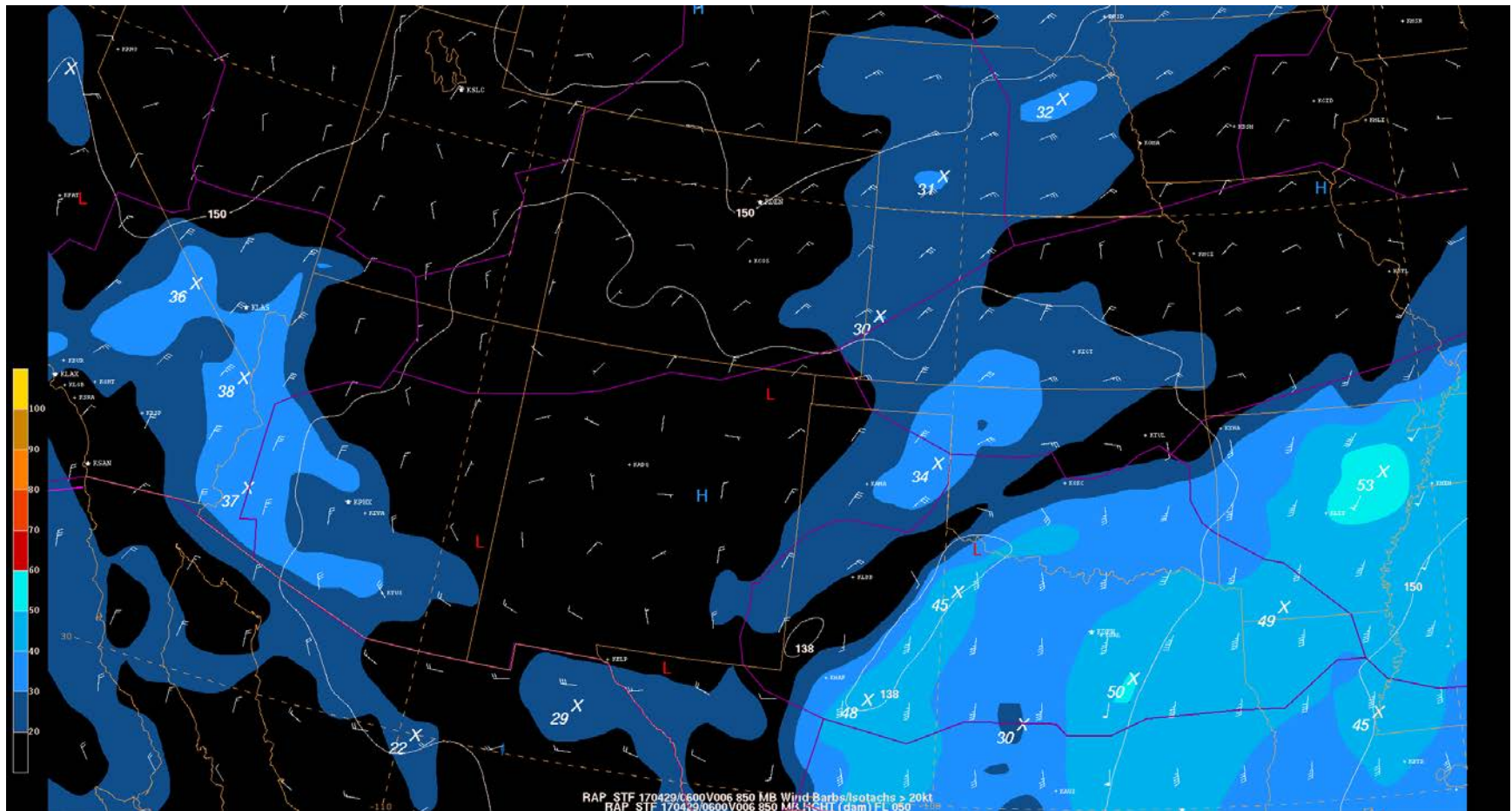


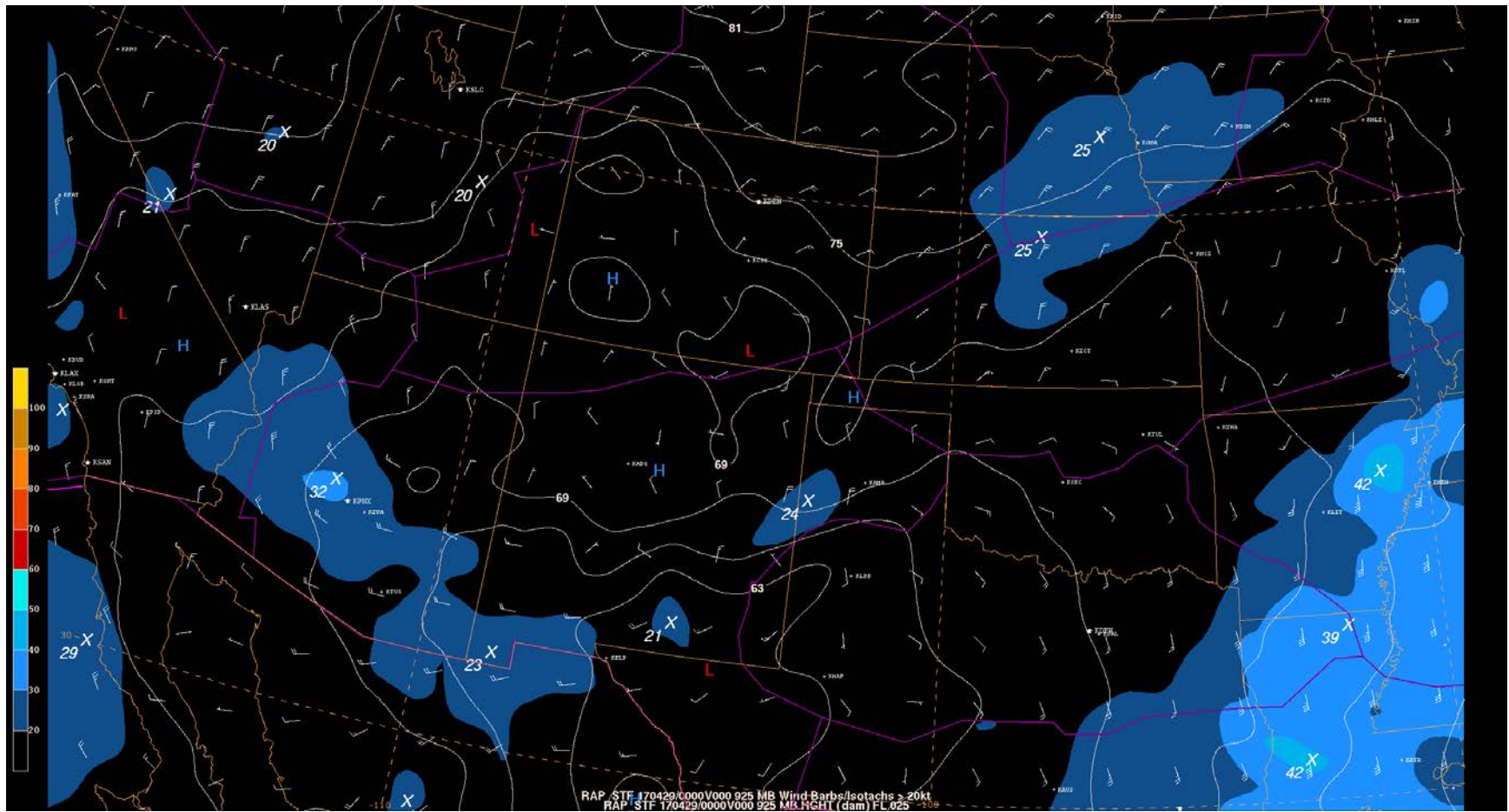


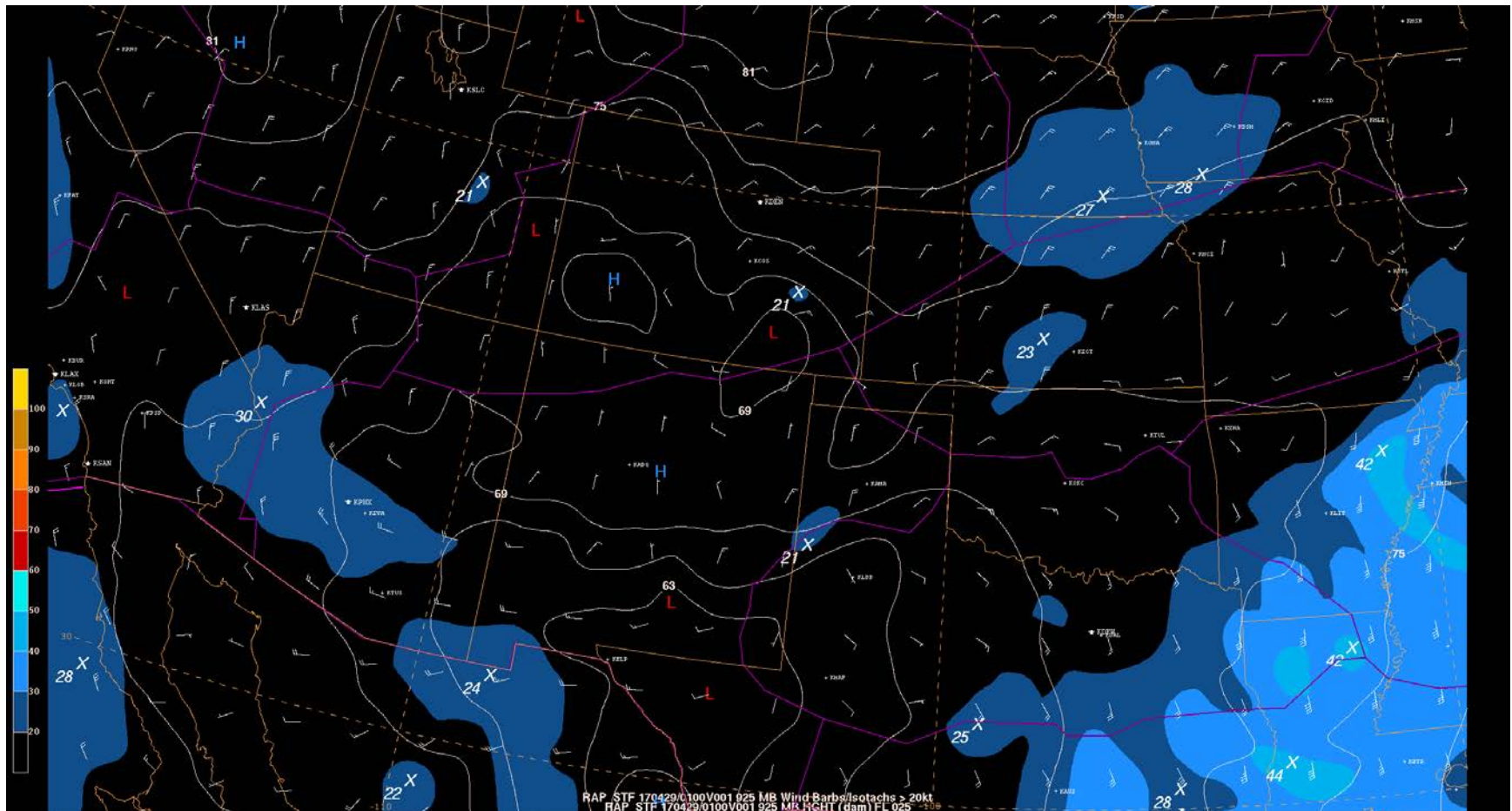




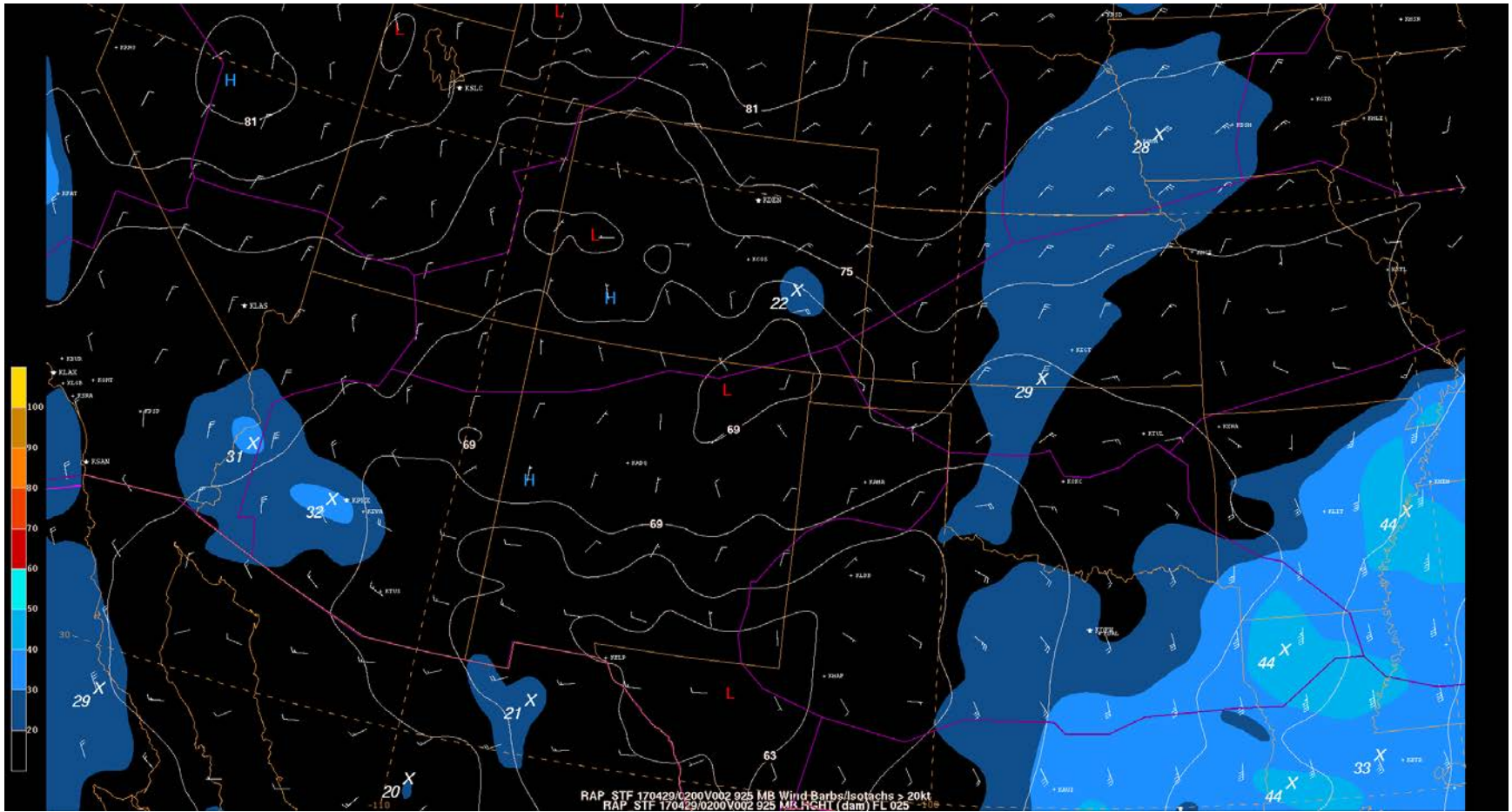


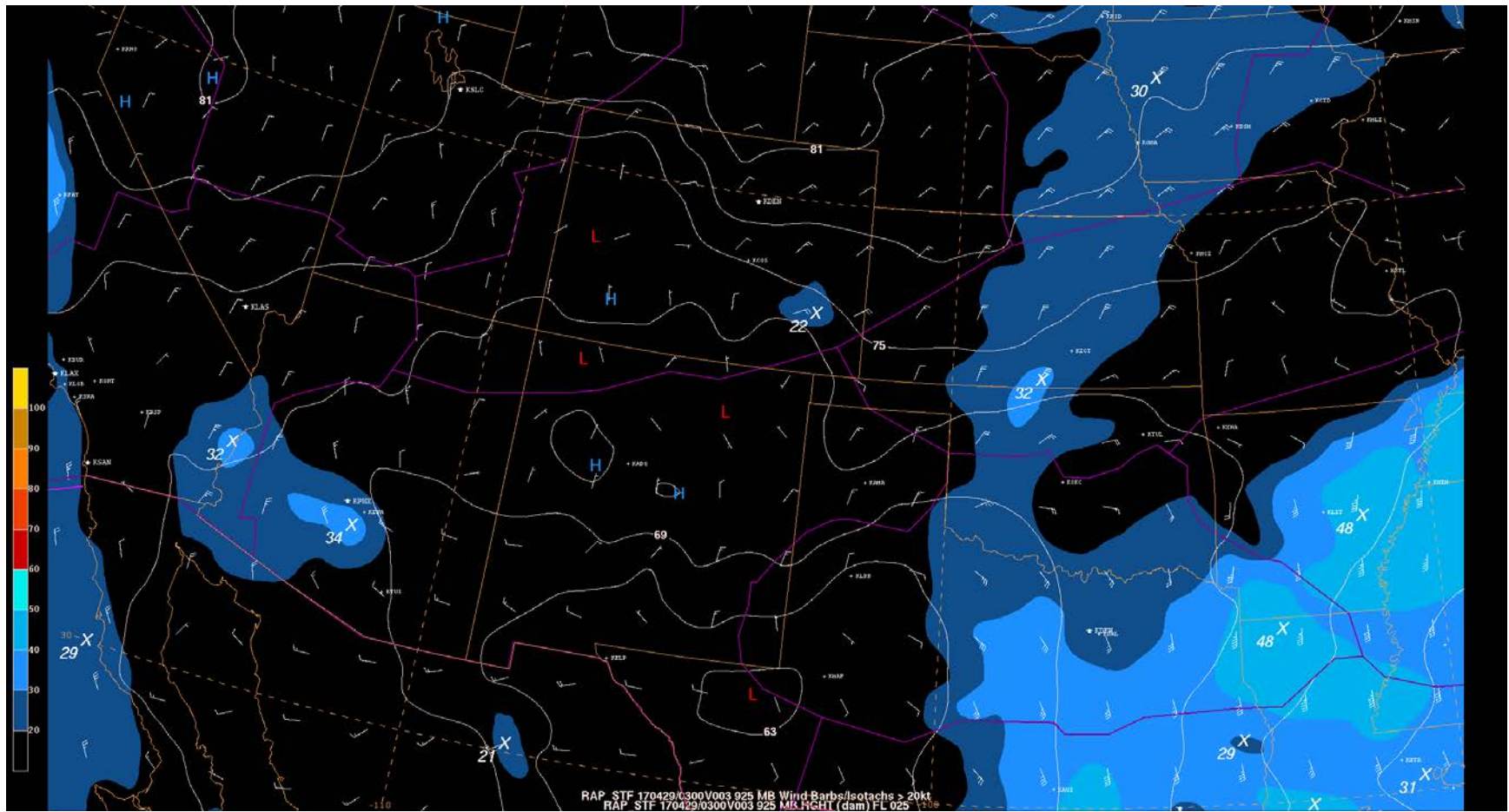


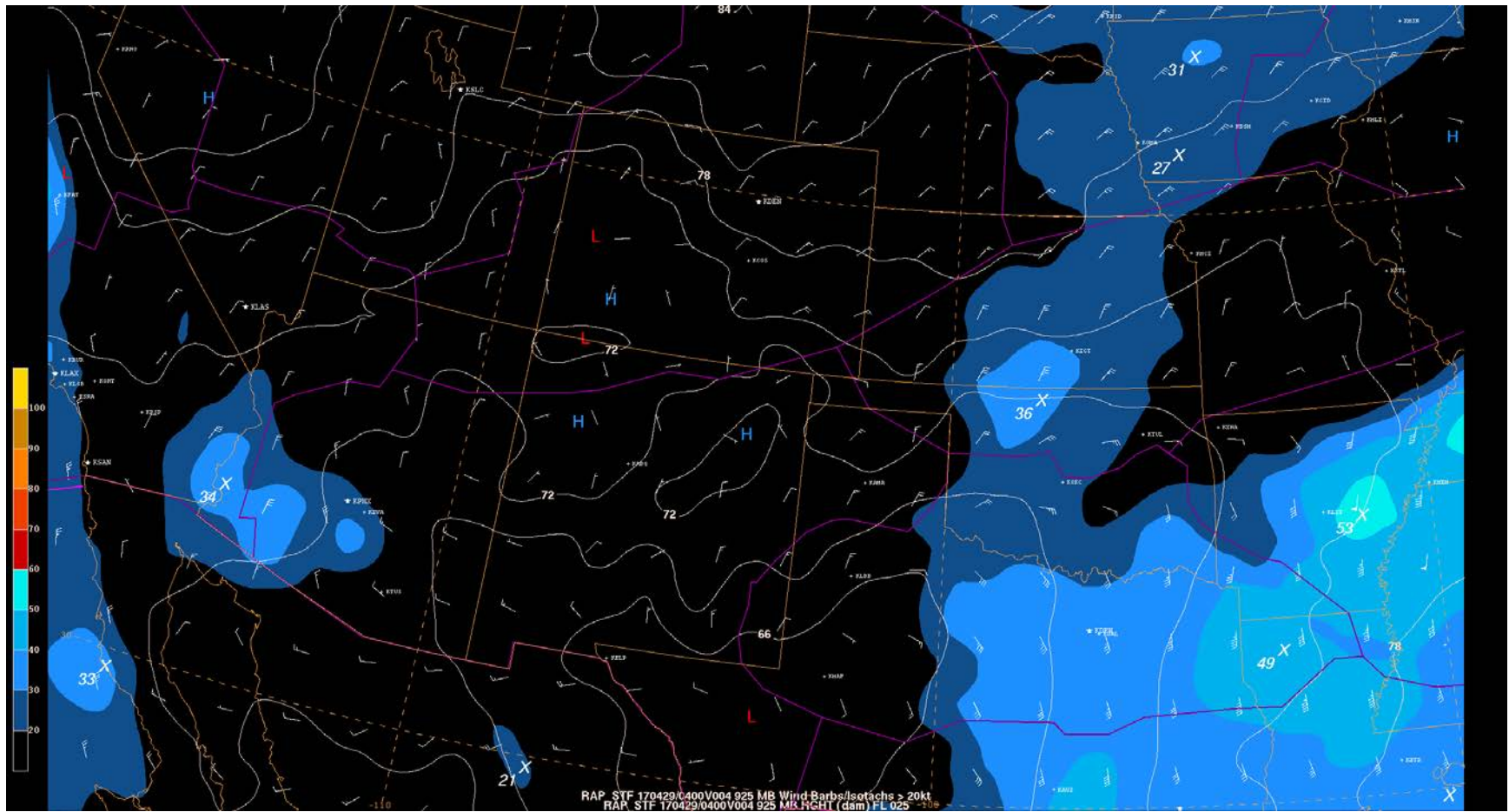


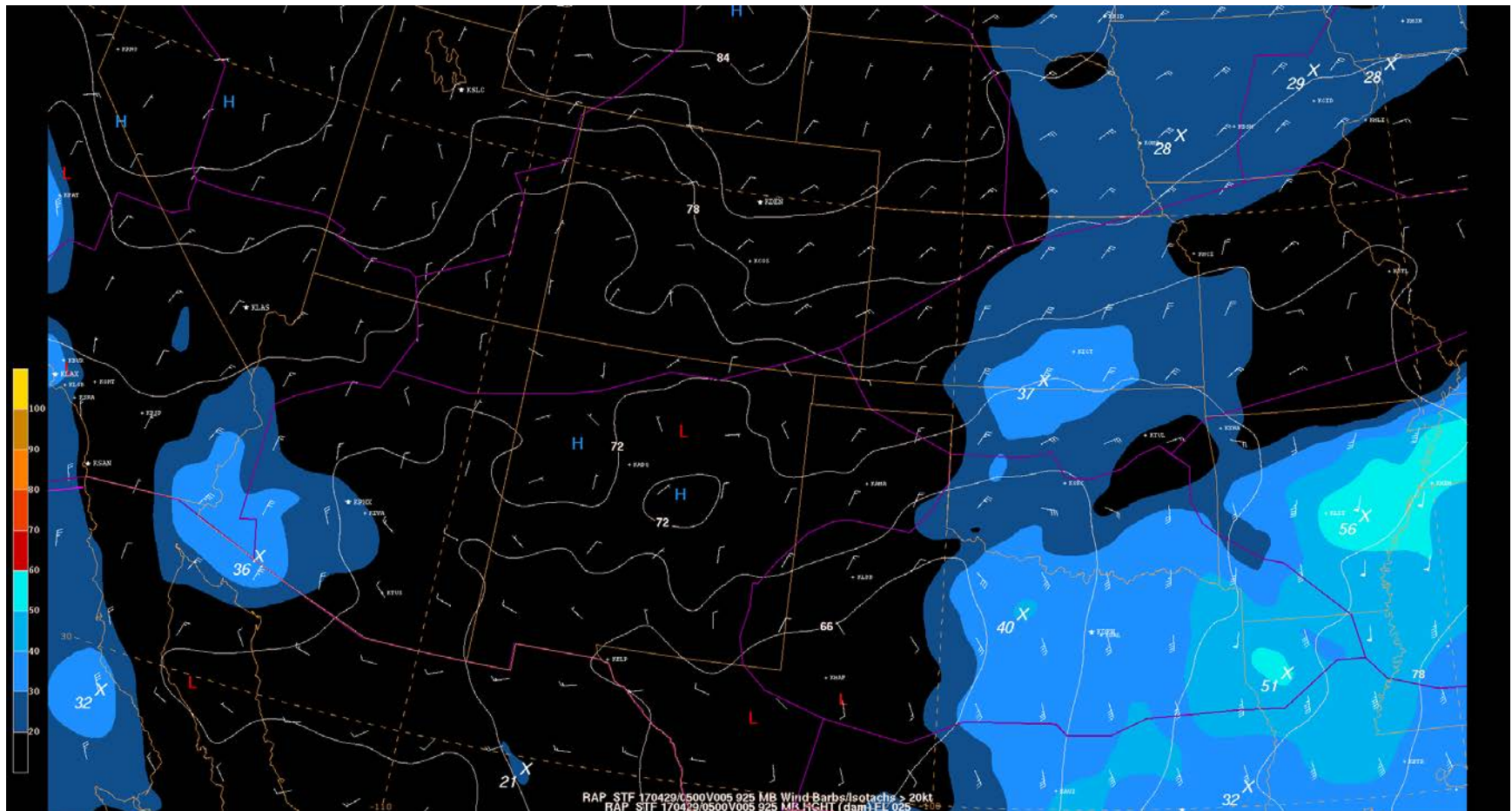


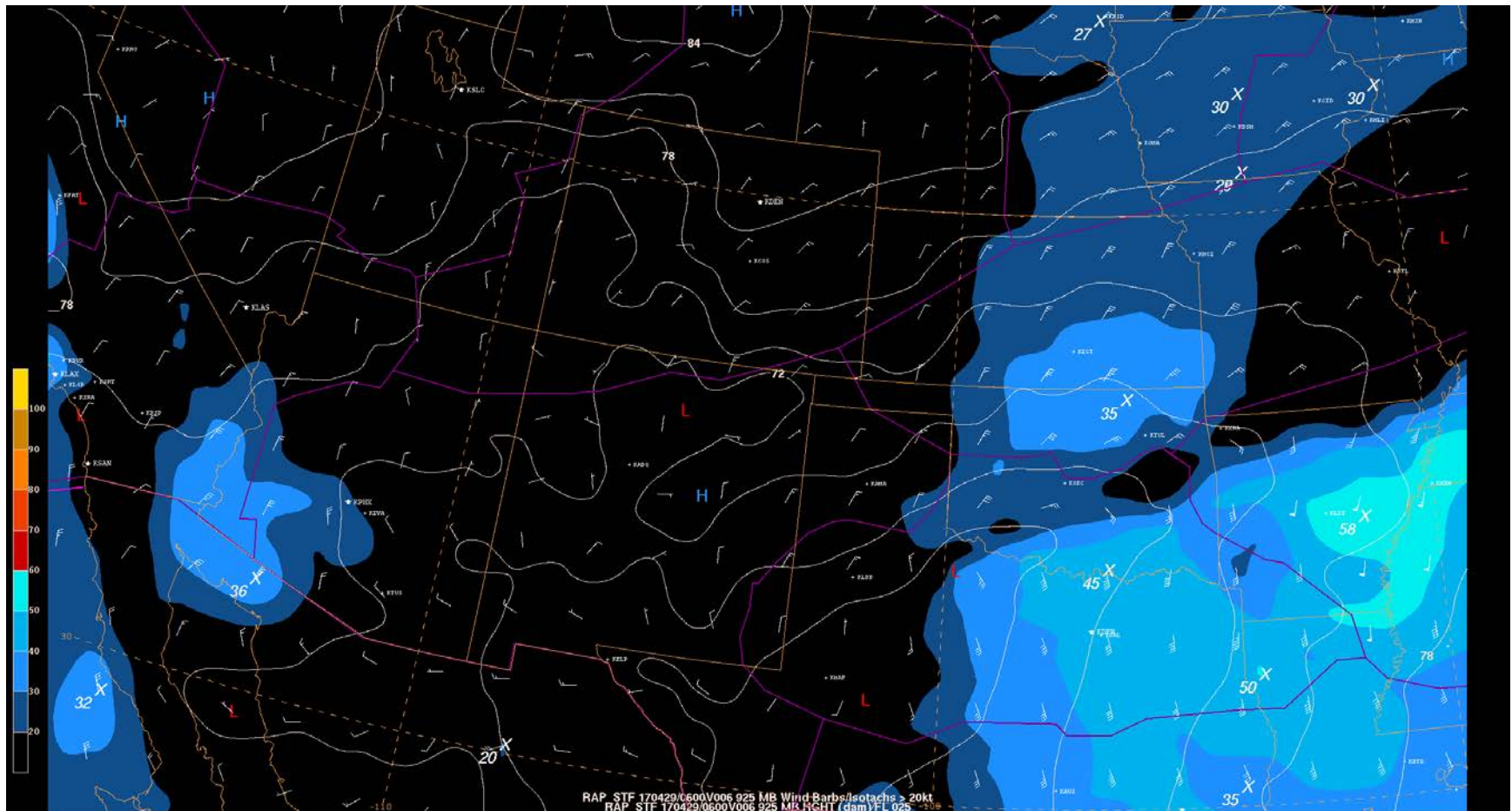










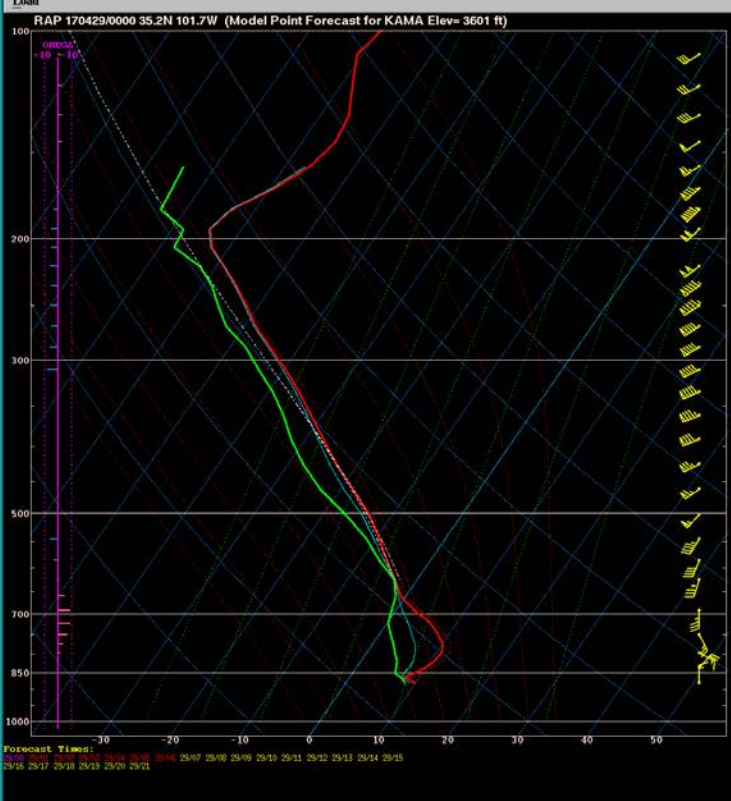




Forecast Times:  
 23/15 23/17 23/18 23/19 23/20 23/21  
 23/22 23/23 23/24 23/25

Clouds

18:06:23 Z  
 Fri Jun 23



**CURSOR DATA**

81.2C 169mb HSL 82L  
 142.9F 0.0g/kg 42557ft 18924ft  
 0=292.5K 0=277.7K 12976m 11868m

**PARCEL DATA**

\*\*\* MOST UNSTABLE PARCEL \*\*\*

LVL: 623mb -3C/-3C 26F/26F

CAPE = 1 J/Kg LI (500mb) = 0 C  
 BFGS = 2 J/Kg Lmin = 0C / 301mb  
 CLIM = -8 J/Kg CAP = 0C / 501mb

LEVEL	PRES	HGT (AGL)	HGT (MSL)	TEMP
LCL	623mb	3281ft	12914ft	
LFC	446mb	17676ft	21308ft	-20C
EL	414mb	19481ft	23114ft	-24C
HPL	424mb	18931ft	22515ft	

**THERMODYNAMIC DATA**

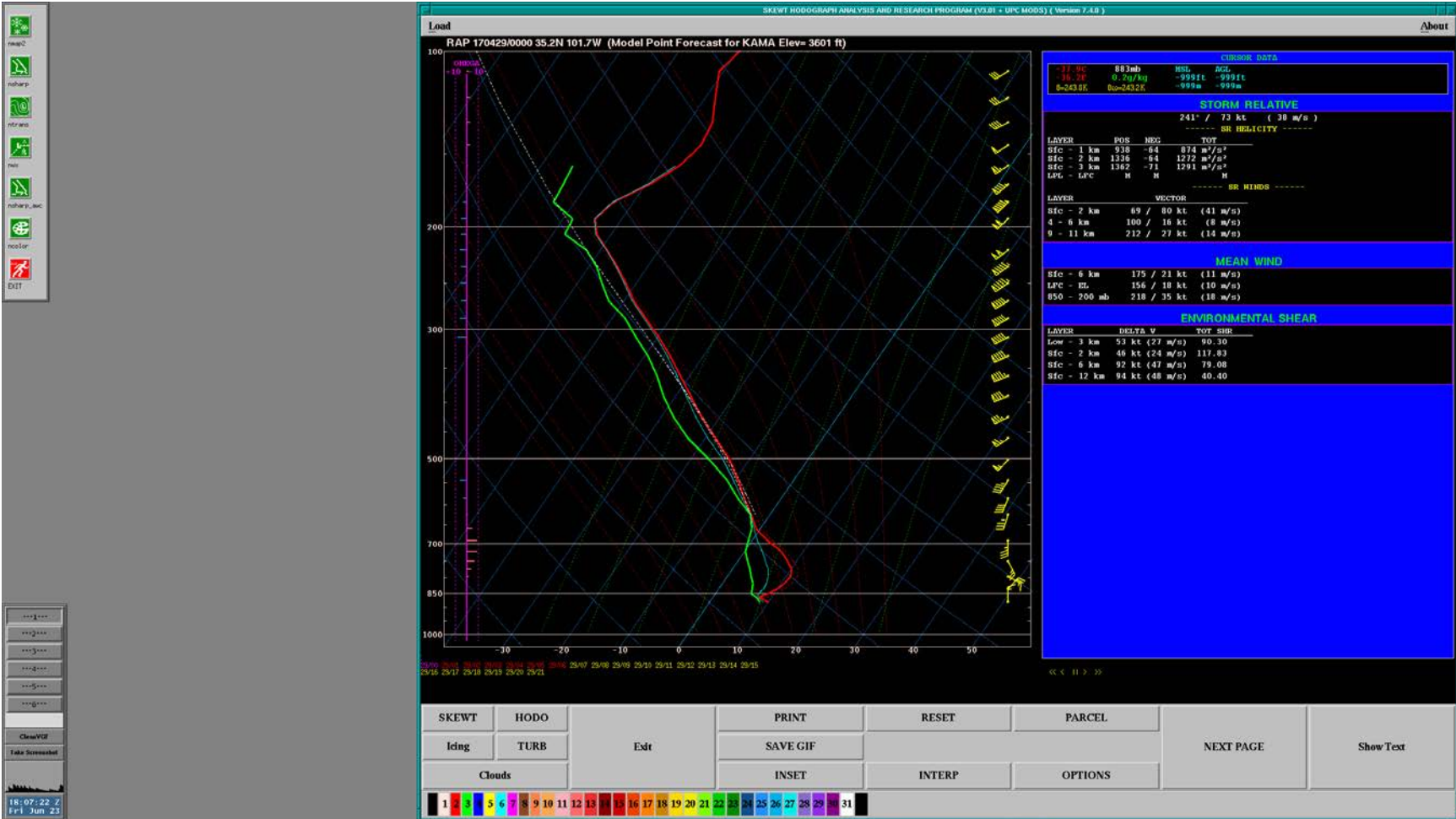
----- AVAILABLE MOISTURE -----  
 P. Water = 0.84 in Mean RH = 74 %  
 Mean H = 7.2 g/Kg Mean LRH = 76 %  
 Top of Moist Lyr = H / H

----- CONDITIONAL INSTABILITY -----  
 700-500mb Lapse Rate = 17 C / 6.8 C/km  
 850-500mb Lapse Rate = 23 C / 5.5 C/km

----- MISC PARAMETERS -----  
 Total Totals = 42 K Index = 79  
 SREAR Index = 184 Max Temp = 72e  
 ThetaE Diff = 9C ConvTemp(s) = 72F/50F  
 MIX Level = 7159ft F2G LVL(AGL) = 7559ft  
 F2G LVL(MSL) = 11191ft

SKEWT	HODO	PRINT	RESET	PARCEL	
Idng	TURB	SAVE GIF		NEXT PAGE	Show Text
Clouds	Exit	INSET	INTERP	OPTIONS	

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

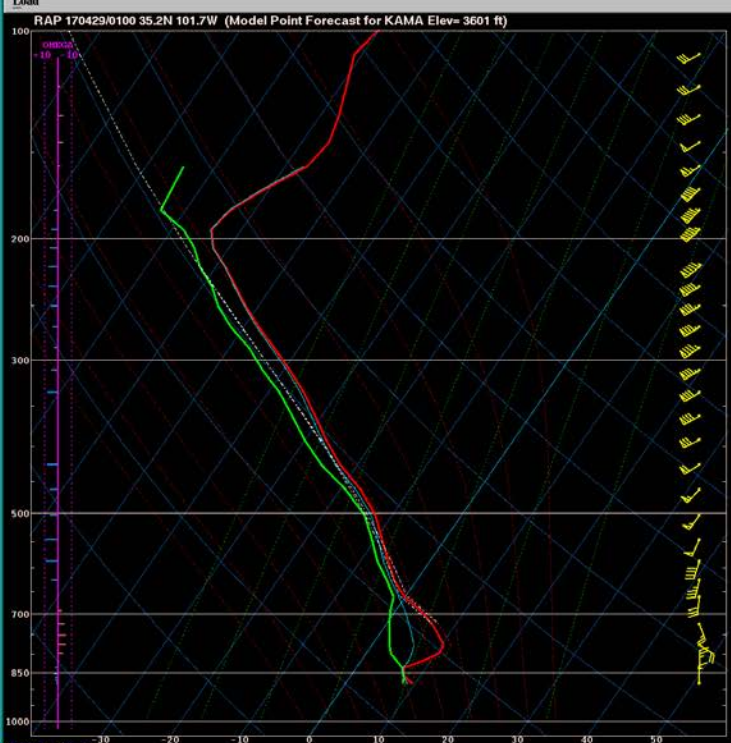




Forecast Times:  
 23/16 23/17 23/18 23/19 23/20 23/21  
 23/22 23/23 23/24 23/25  
 23/26 23/27 23/28 23/29 23/30 23/31

ClearVGE  
 Take Screenshot

18:07:56 Z  
 Fri Jun 23



**CURSOR DATA**

42.3C 984mb HSL 82L  
 49.0F 0.5g/kg -999ft -999ft  
 0=2285K 0=2257K -999m -999m

**PARCEL DATA**

\*\*\* MOST UNSTABLE PARCEL \*\*\*

LVL: 723mb 6C/0C 43F/32F

CAPE = 0 J/Kg LI (500mb) = 1 C  
 BFGS = 1 J/Kg Lmin = -0C / 625mb  
 CINH = 0 J/Kg CAP = M M

LEVEL	PRES	HT (AGL)	HT (MSL)	TEMP
LCL	658mb	7897ft	11529ft	
LFC	H	H	H	H
EL	658mb	7897ft	11529ft	-0C
HPL	658mb	7897ft	11529ft	

**THERMODYNAMIC DATA**

----- AVAILABLE MOISTURE -----  
 P. Water = 0.86 in Mean RH = 77 %  
 Mean H = 7.3 g/Kg Mean LRH = 80 %  
 Top of Moist Lyr = M / M

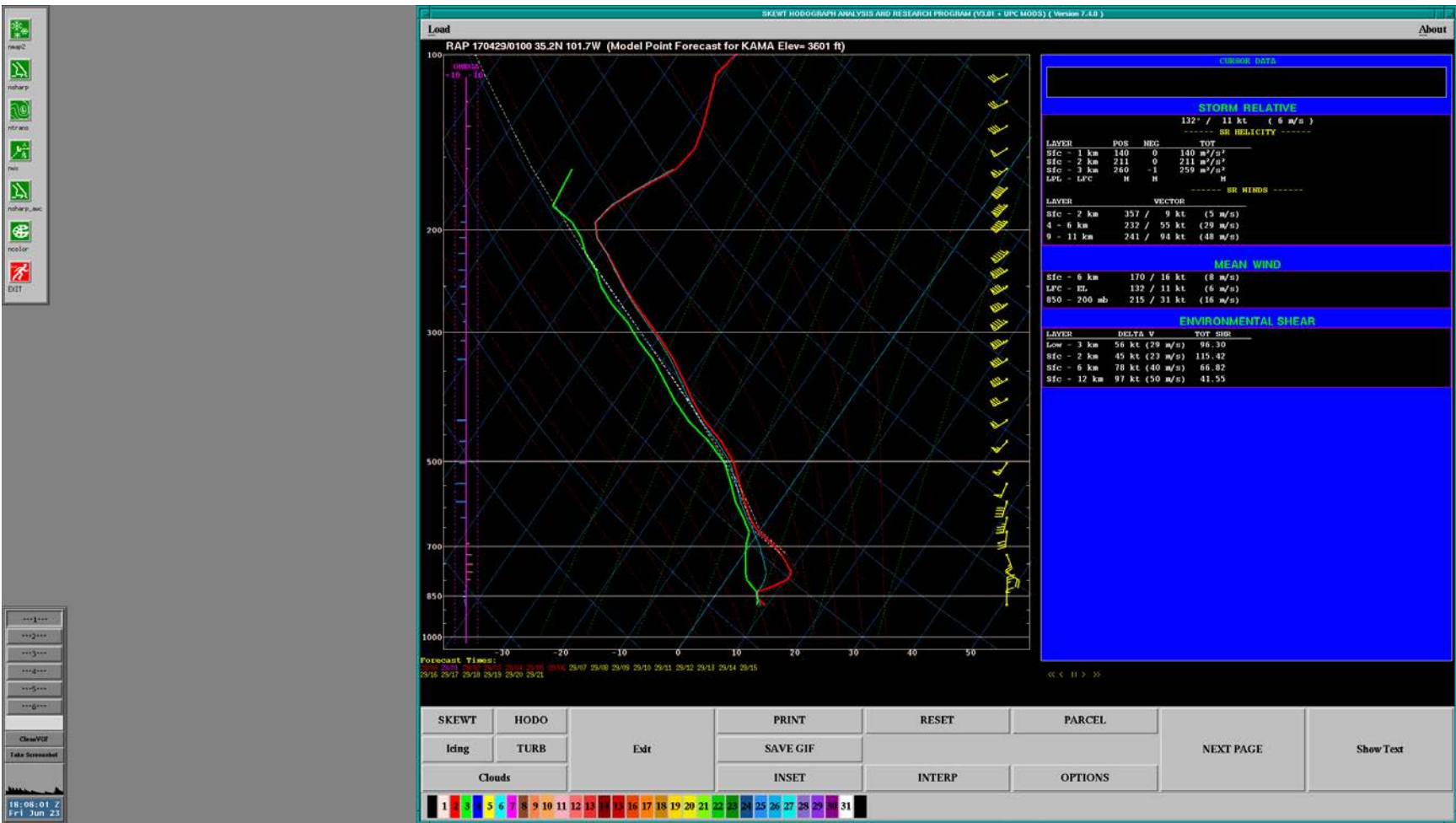
----- CONDITIONAL INSTABILITY -----  
 700-500mb Lapse Rate = 17 C / 6.7 C/km  
 850-500mb Lapse Rate = 21 C / 4.9 C/km

----- MISC PARAMETERS -----  
 Total Totals = 40 K Index = 72  
 SREAR Index = 196 Max Temp = 72e  
 ThetaE Diff = 10C ConvTemp(s) = 74F/50F  
 MIX Level = 7317ft FZG LVL(AGL) = 7779ft  
 FZG LVL(MSL) = 11411ft

SKEWT	HODO	PRINT	RESET	PARCEL	NEXT PAGE	Show Text
Idng	TURB	SAVE GIF	INTERP	OPTIONS		
Clouds	Exit	INSET				

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31



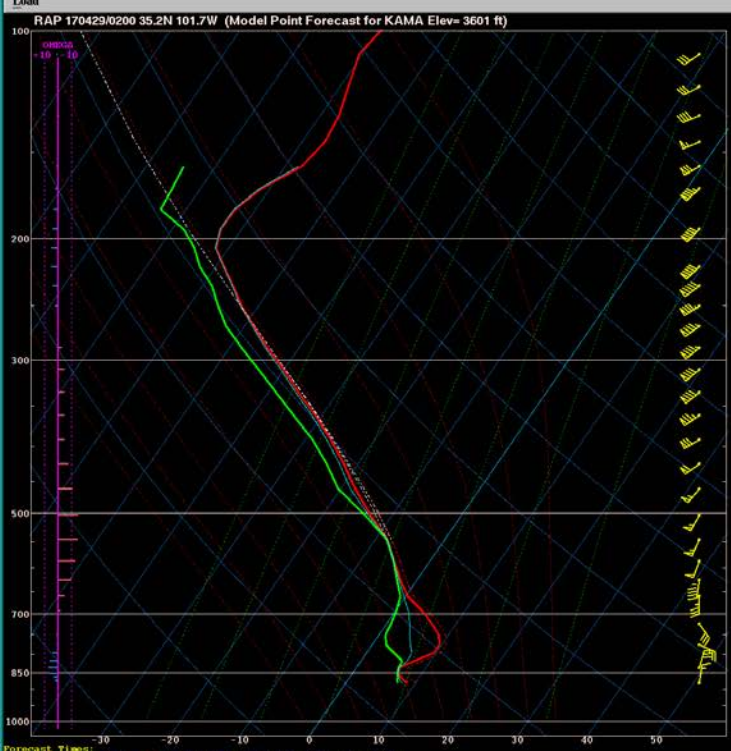




Forecast Times:  
 23/15 23/17 23/18 23/19 23/20 23/21 23/22 23/23 23/24 23/25  
 23/16 23/18 23/19 23/20 23/21

Clouds

18:08:15 Z  
 Fri Jun 23



**CURSOR DATA**

**PARCEL DATA**

\*\*\* MOST UNSTABLE PARCEL \*\*\*

LVL: 545mb -8C/-8C 17F/17F

CAPE = 103 J/Kg LI (500mb) = -1 C  
 BFGZ = 0 J/Kg Lmin = -1C / 462mb  
 CINH = -0.3J/Kg Cap = 0C / 501mb

LEVEL	PRES	DBT (AGL)	DBT (MSL)	TEMP
LCL	545mb	12760ft	16395ft	
LFC	540mb	12992ft	16628ft	-9C
EL	258mb	30239ft	33874ft	-51C
MFL	202mb	35307ft	38943ft	

**THERMODYNAMIC DATA**

----- AVAILABLE MOISTURE -----

P. Water = 0.89 in Mean RH = 79 %  
 Mean H = 7.1 g/Kg Mean LSH = 81 %  
 Top of Moist Lyr = M / M

----- CONDITIONAL INSTABILITY -----

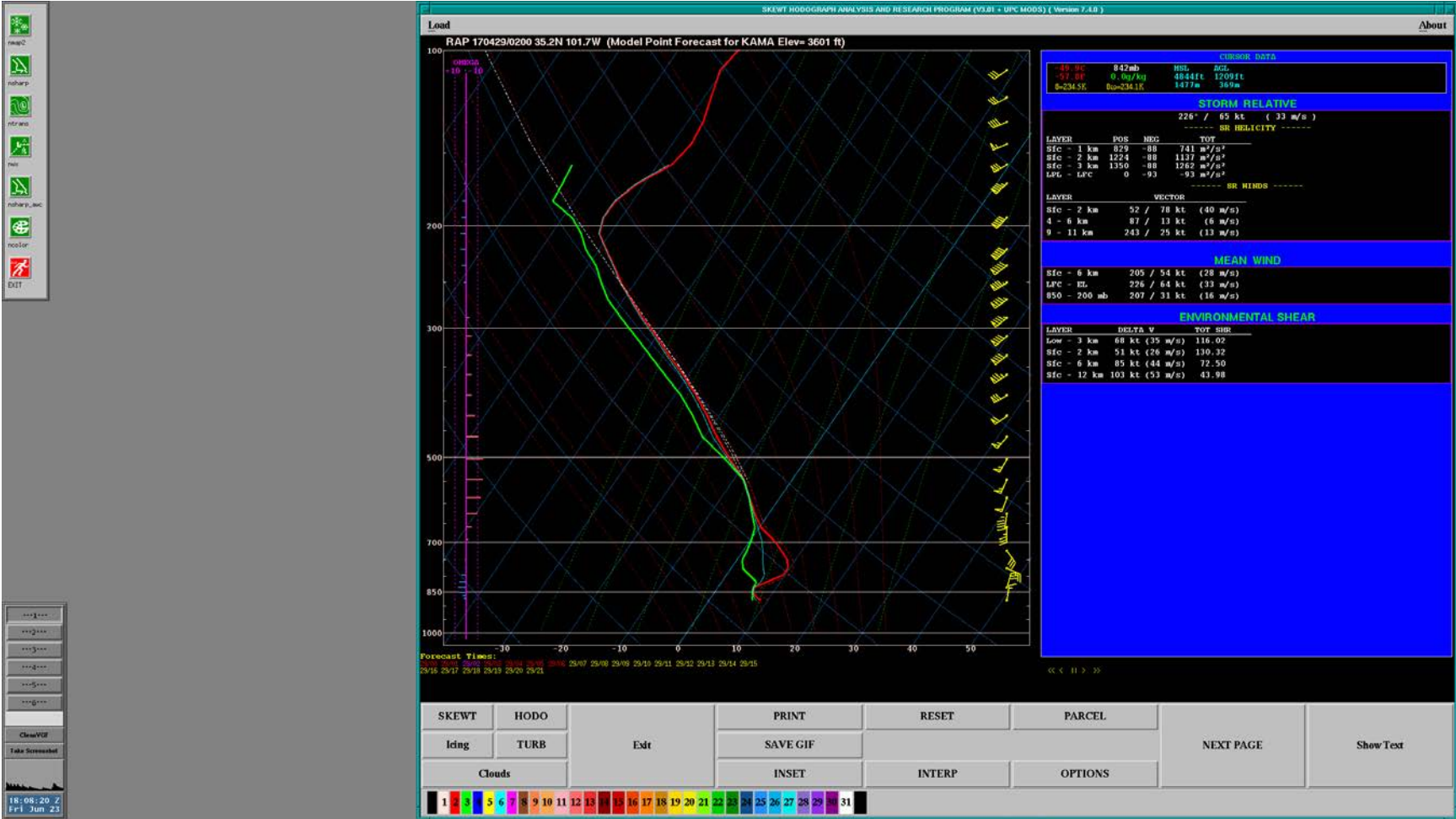
700-500mb Lapse Rate = 18 C / 7.0 C/km  
 850-500mb Lapse Rate = 21 C / 4.9 C/km

----- MISC PARAMETERS -----

Total Totals = 40 K Index = 22  
 SREAR Index = 193 Max Temp = 71F  
 ThetaE Diff = 14C ConvTemp(s) = 75F/48F  
 MIX Level = 7648ft FZG LVL(AGL) = 7967ft  
 FZG LVL(MSL) = 11602ft

SKEWT	HODO	PRINT	RESET	PARCEL	NEXT PAGE	Show Text
Idng	TURB	SAVE GIF	INTERP	OPTIONS		
Clouds	Exit	INSET				

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

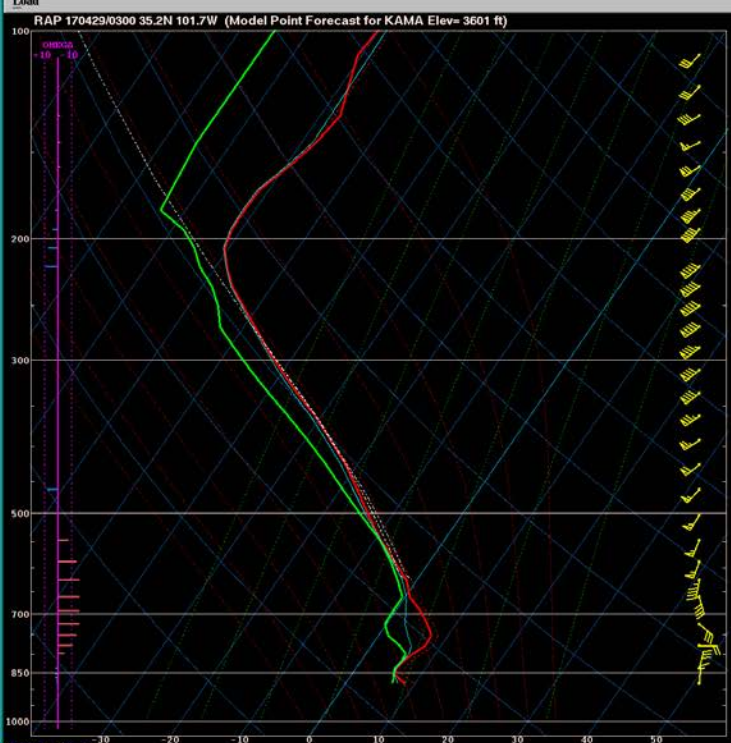




Forecast Times:  
 23/15 23/17 23/18 23/19 23/20 23/21 23/22 23/23 23/24 23/25  
 23/16 23/18 23/19 23/20 23/21

Clear VCF  
 Take Screenshot

18:08:27 Z  
 Fri Jun 23



**CURSOR DATA**

**PARCEL DATA**  
 \*\*\* MOST UNSTABLE PARCEL \*\*\*  
 LVL: 625mb -1C/-2C 29F/27F  
 CAPE = 73 J/Kg LI (500mb) = -1 C  
 BPGZ = 6 J/Kg L1min = -1C / 504mb  
 CMBH = -4 J/Kg Cap = 0C / 588mb

LEVEL	PRES	HGT (AGL)	HGT (MSL)	TEMP
LCL	614mb	5711ft	13340ft	
LFC	583mb	11065ft	14694ft	-5C
EL	279mb	28634ft	32283ft	-46C
HPL	217mb	33899ft	37928ft	

**THERMODYNAMIC DATA**  
 ----- AVAILABLE MOISTURE -----  
 P. Water = 0.89 in Mean RH = 65 %  
 Mean H = 7.0 g/Kg Mean LSH = 87 %  
 Top of Moist Lyr = H / H

----- CONDITIONAL INSTABILITY -----  
 700-500mb Lapse Rate = 18 C / 6.0 C/km  
 850-500mb Lapse Rate = 21 C / 4.9 C/km

----- MISC PARAMETERS -----  
 Total Totals = 40 K Index = 21  
 SKEWT Index = 184 Max Temp = 57%  
 ThetaE Diff = 14C ConvTemp(s) = 48F/48F  
 MIX Level = 7886ft FZG LVL(AGL) = 8254ft  
 FZG LVL(MSL) = 11883ft

SKEWT	HODO	PRINT	RESET	PARCEL	NEXT PAGE	Show Text
Idng	TURB	SAVE GIF	INTERP	OPTIONS		
Clouds	Exit	INSET				

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

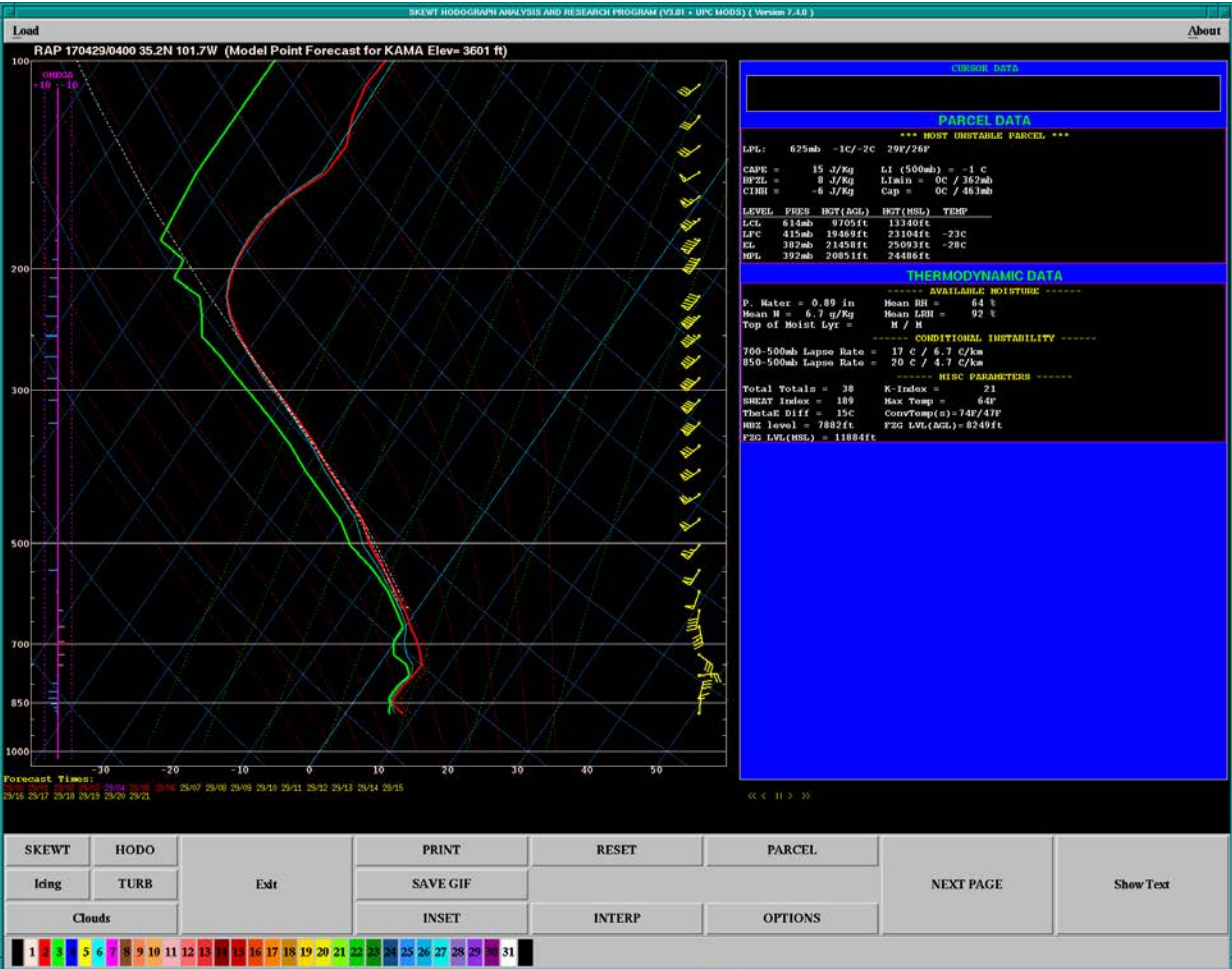


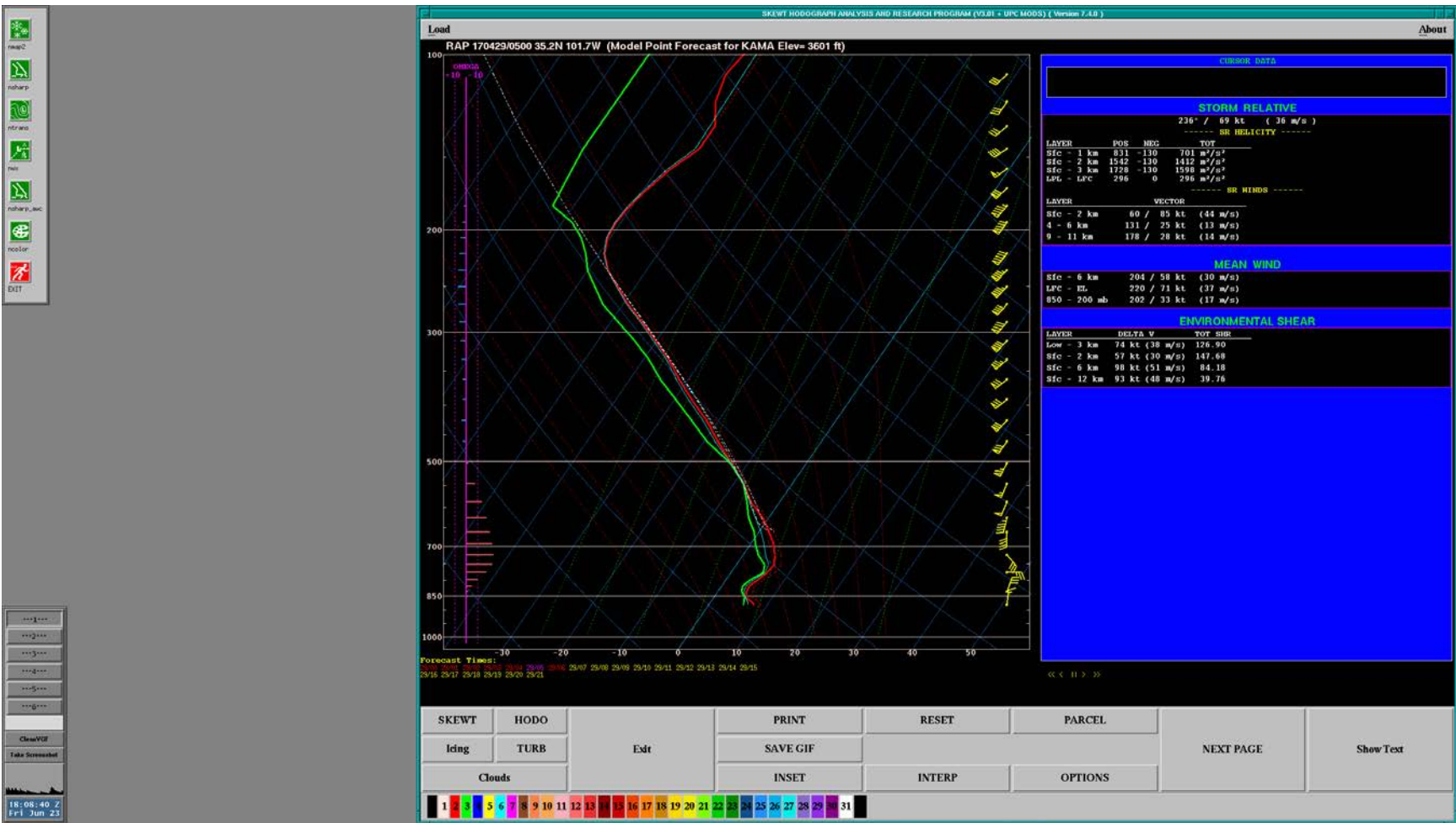


Forecast Times:  
 23/16 23/17 23/18 23/19 23/20 23/21  
 23/22 23/23 23/24 23/25

Clouds

18:08:36 Z  
 Fri Jun 23



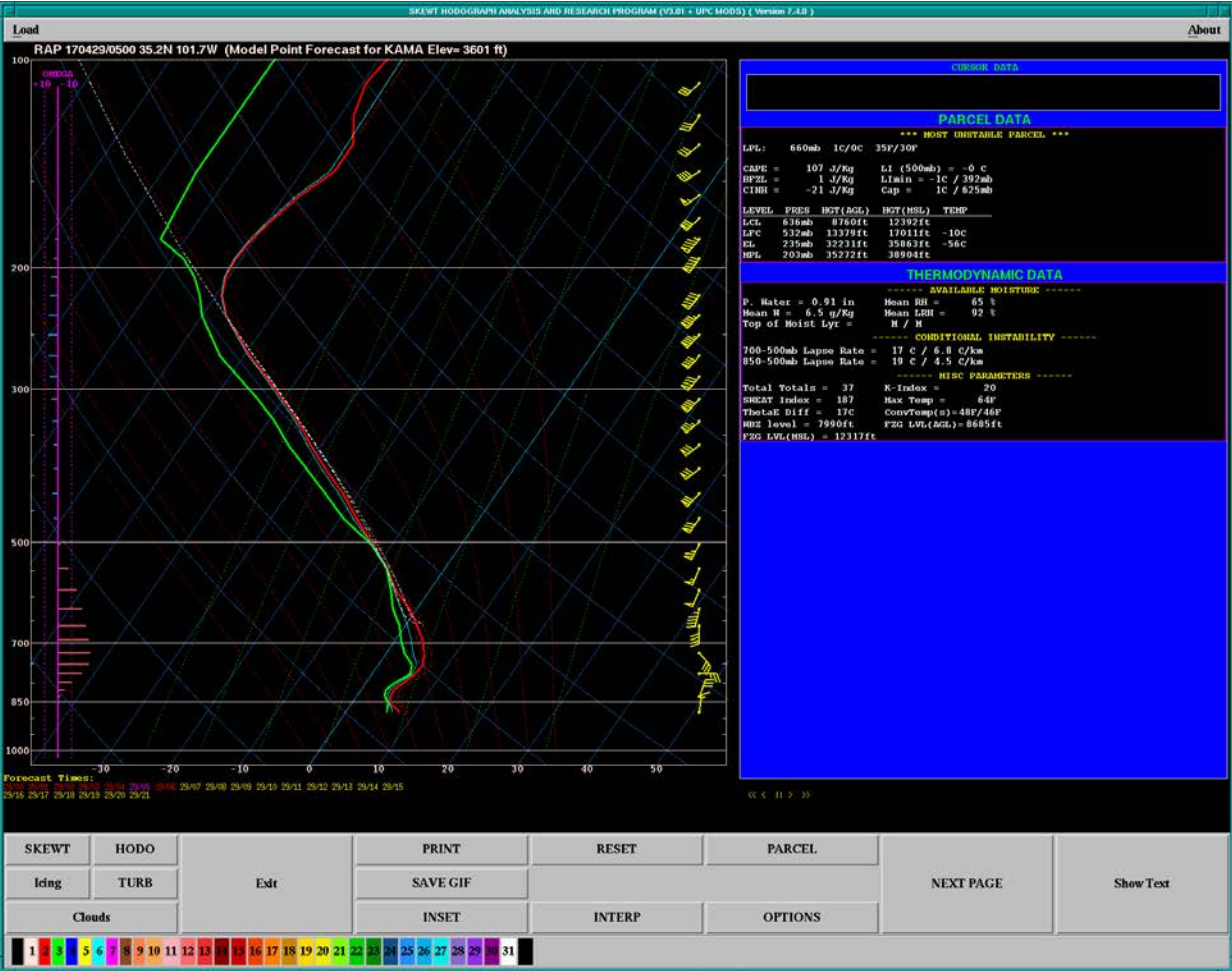




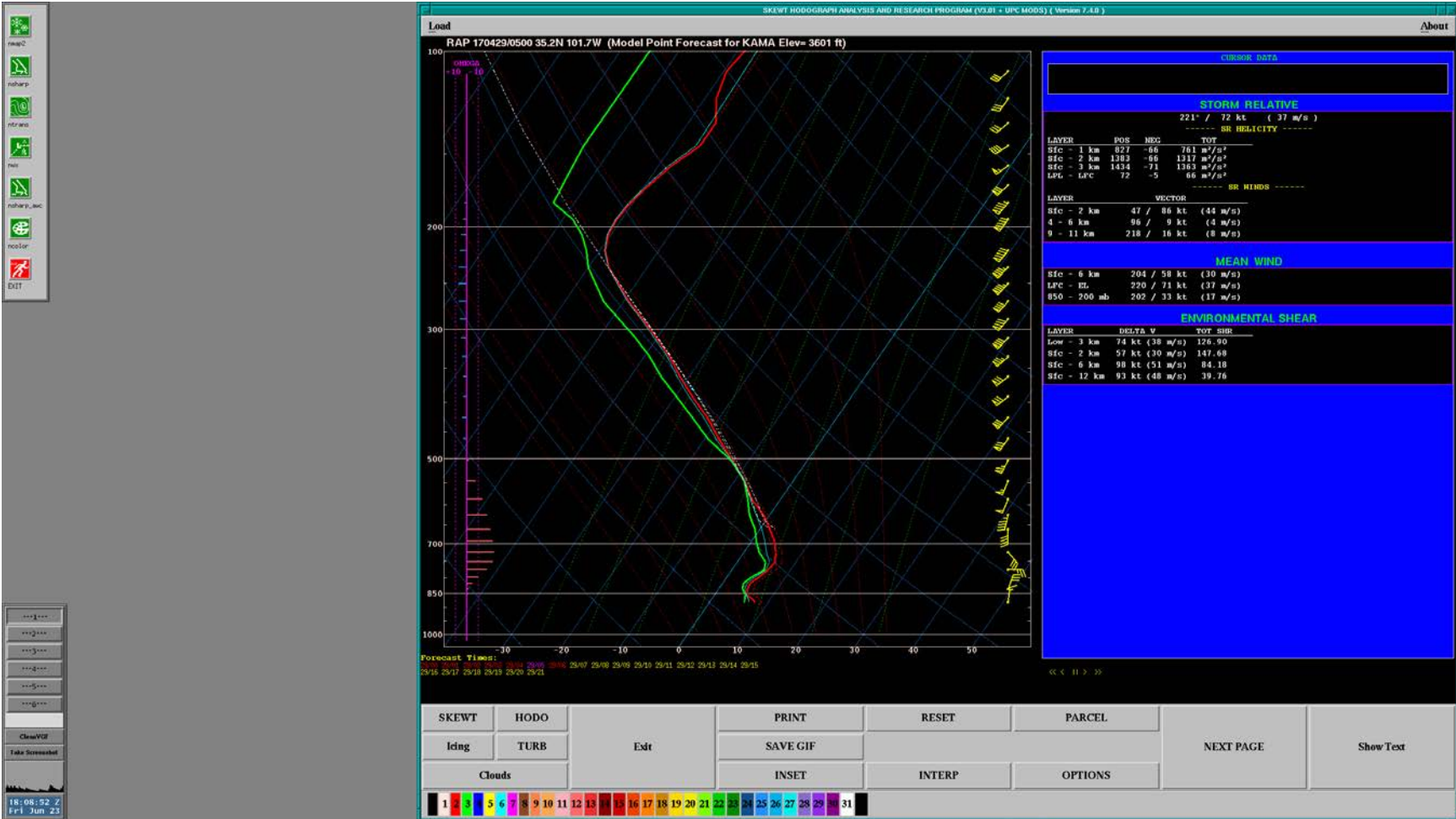
Forecast Times:  
 23/16 23/17 23/18 23/19 23/20 23/21  
 23/22 23/23 23/24 23/25

ClearVGE  
 Take Screenshot

18:08:48 Z  
 Fri Jun 23



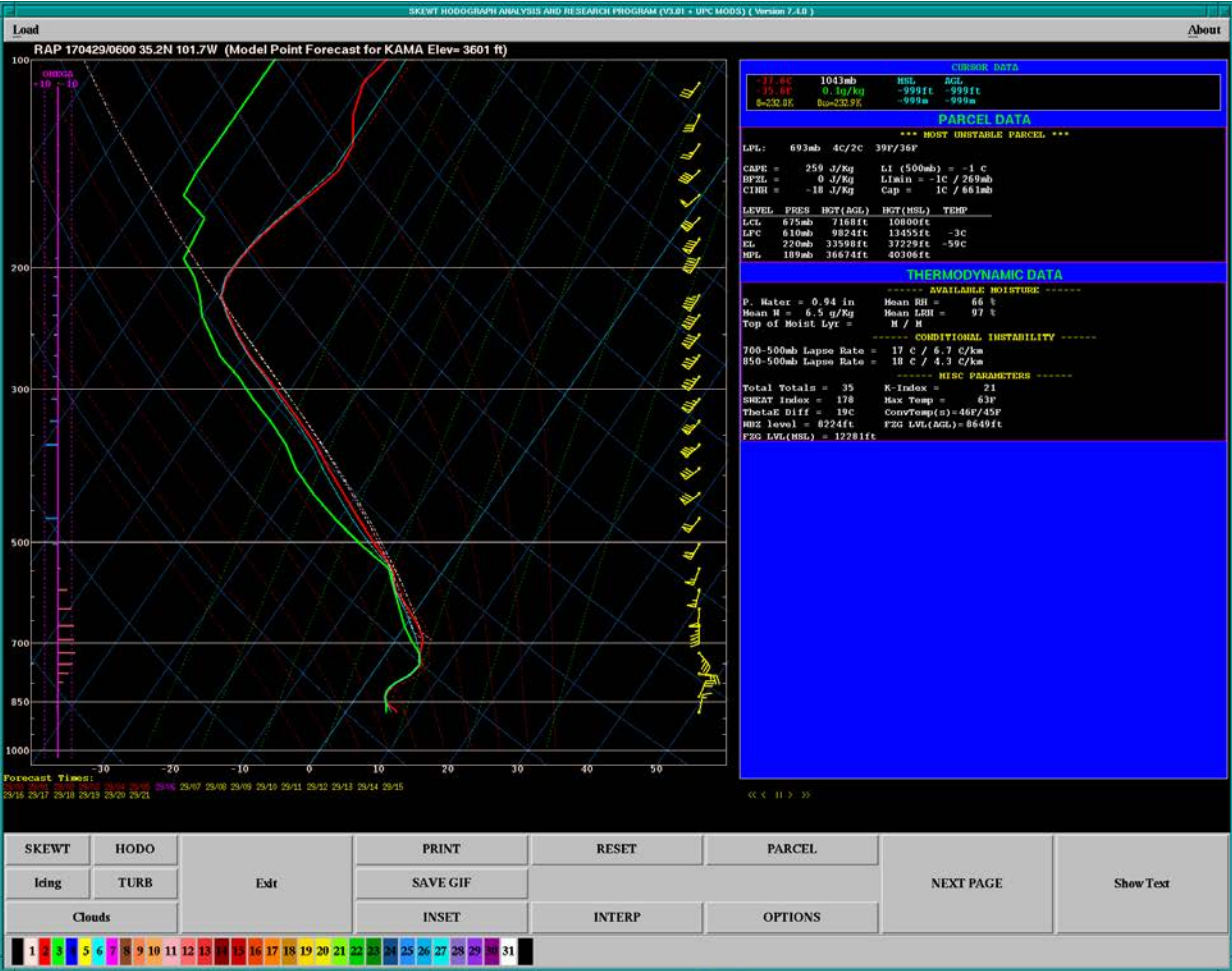


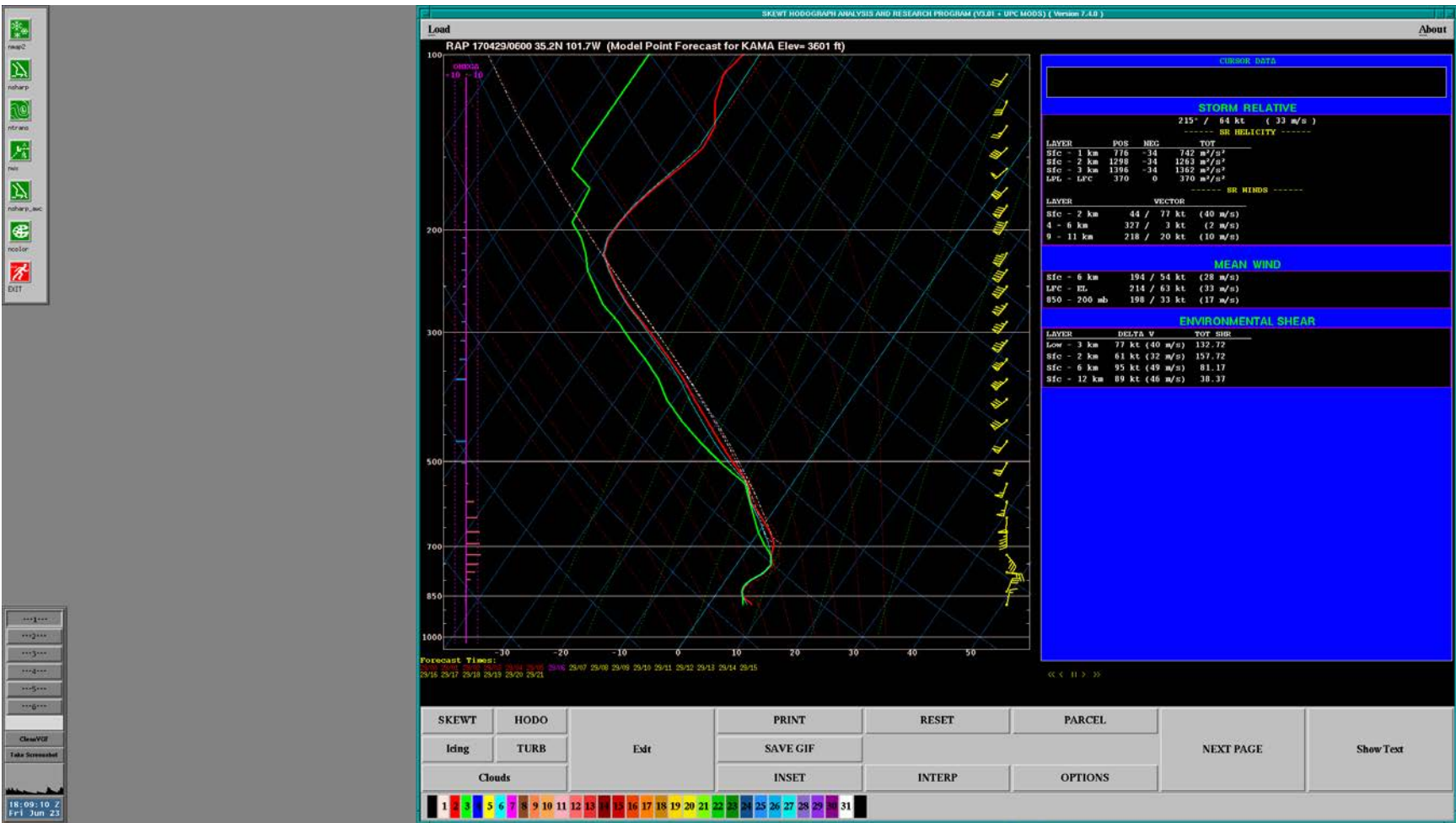


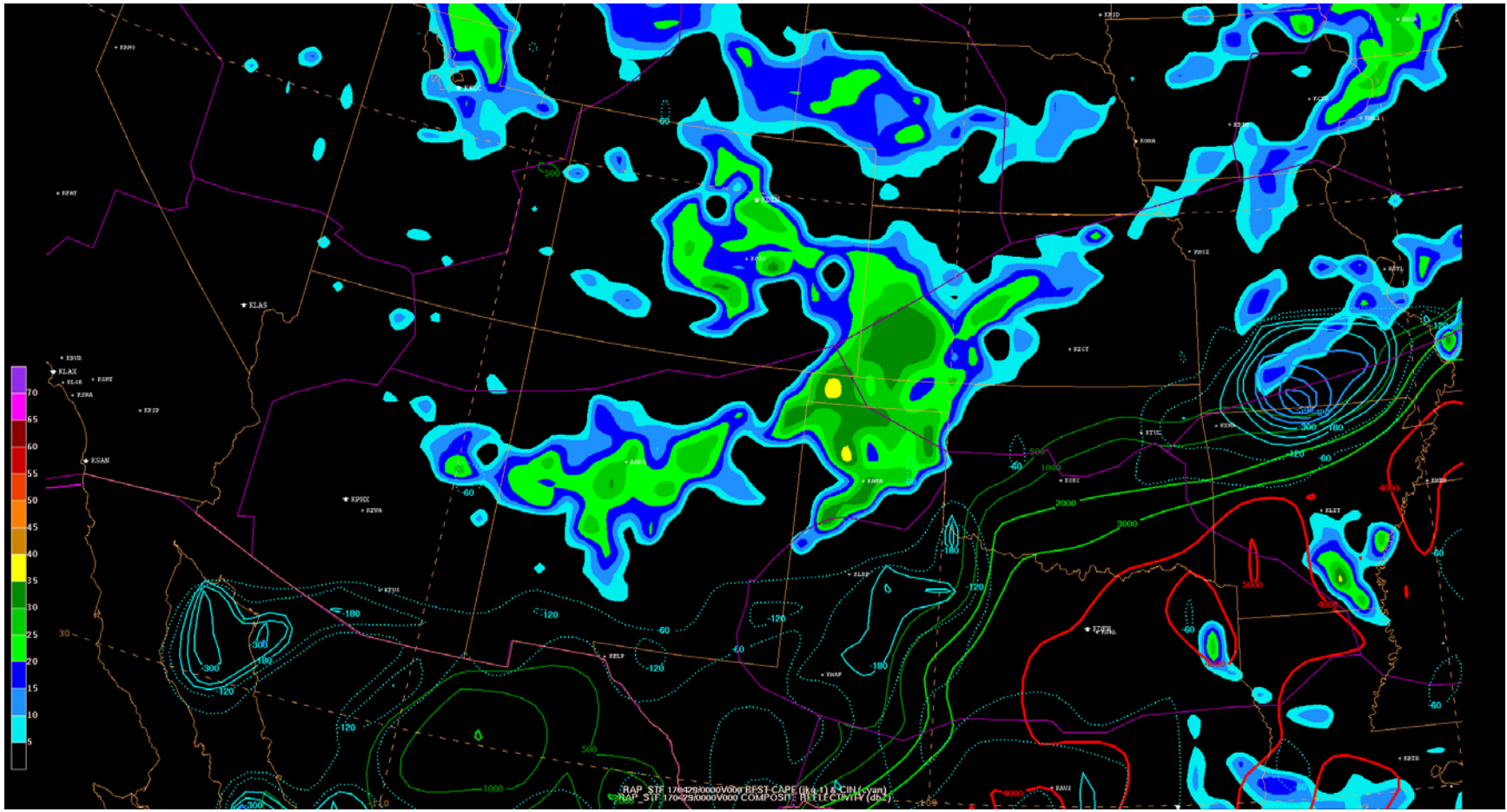


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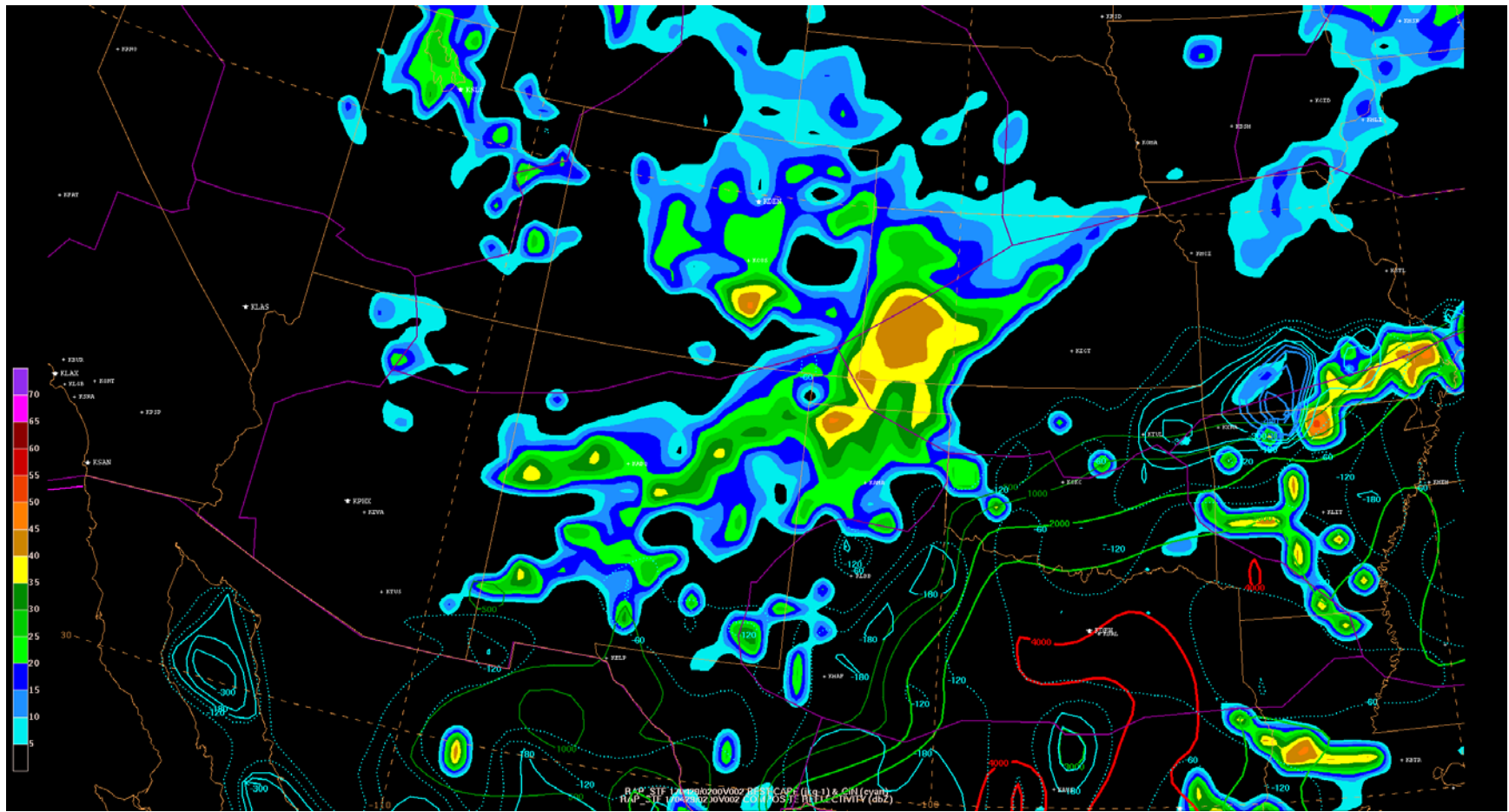
ClearVGE  
 Take Screenshot  
 18:09:06 Z  
 Fri Jun 23









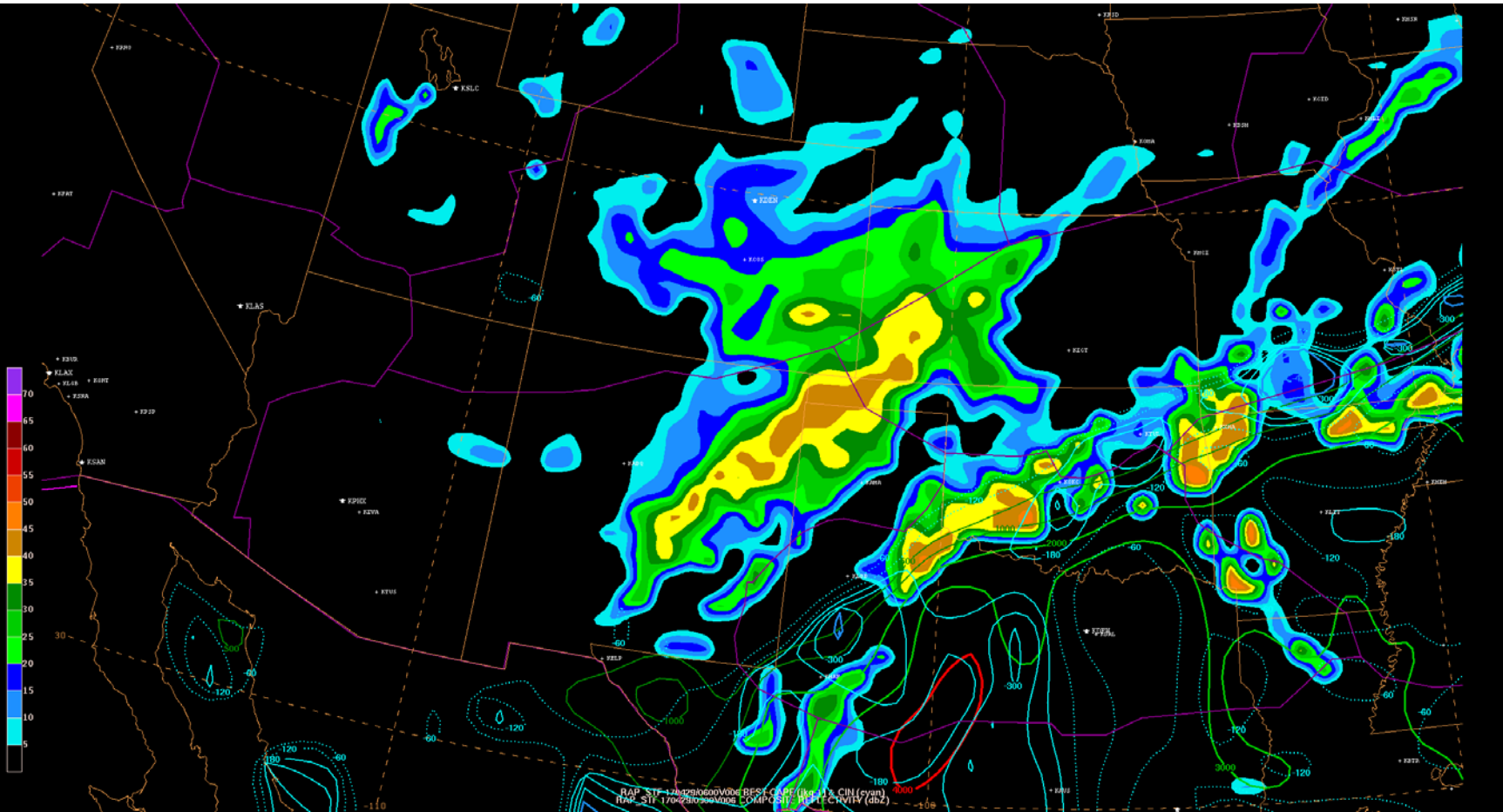


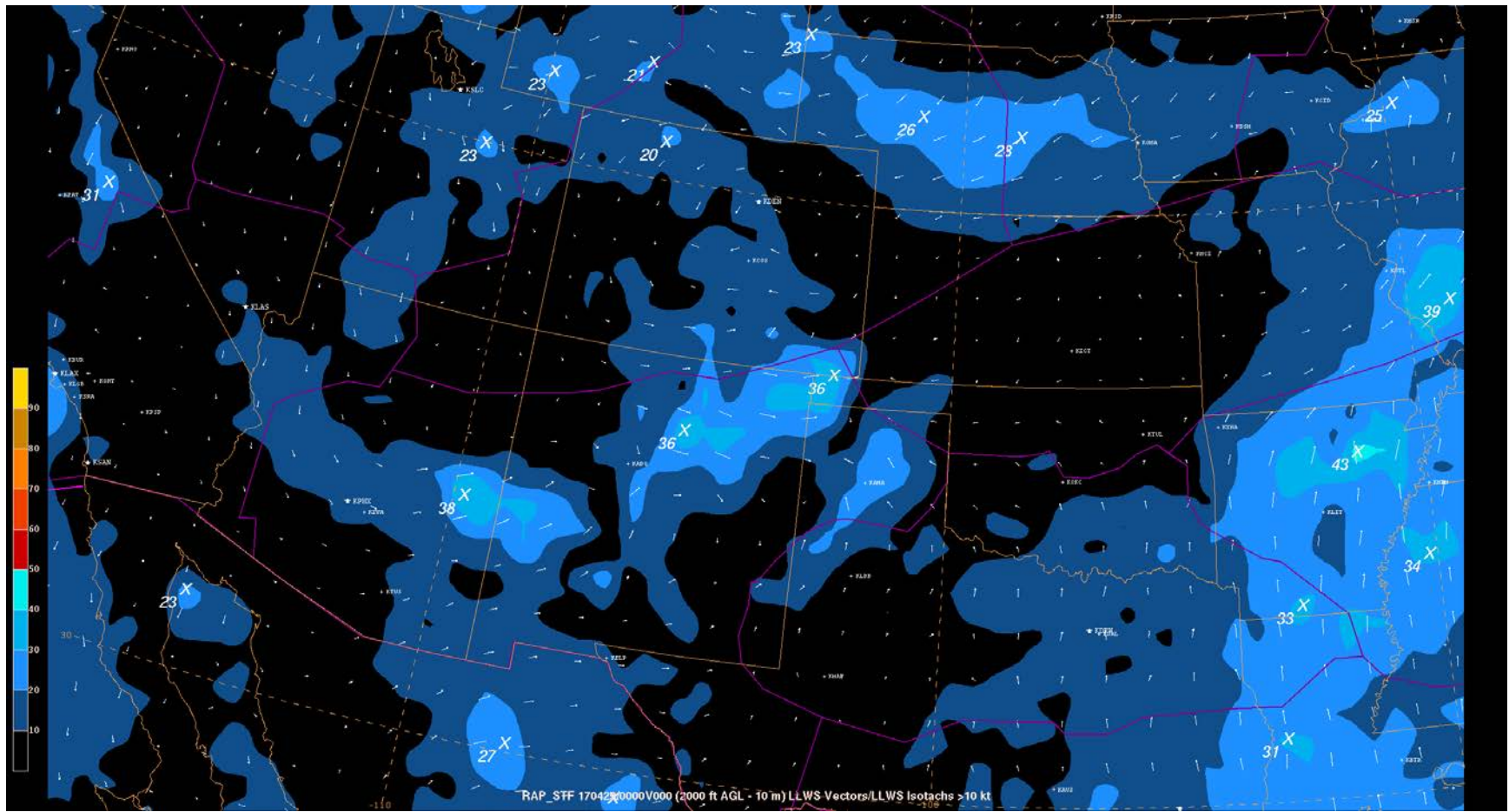


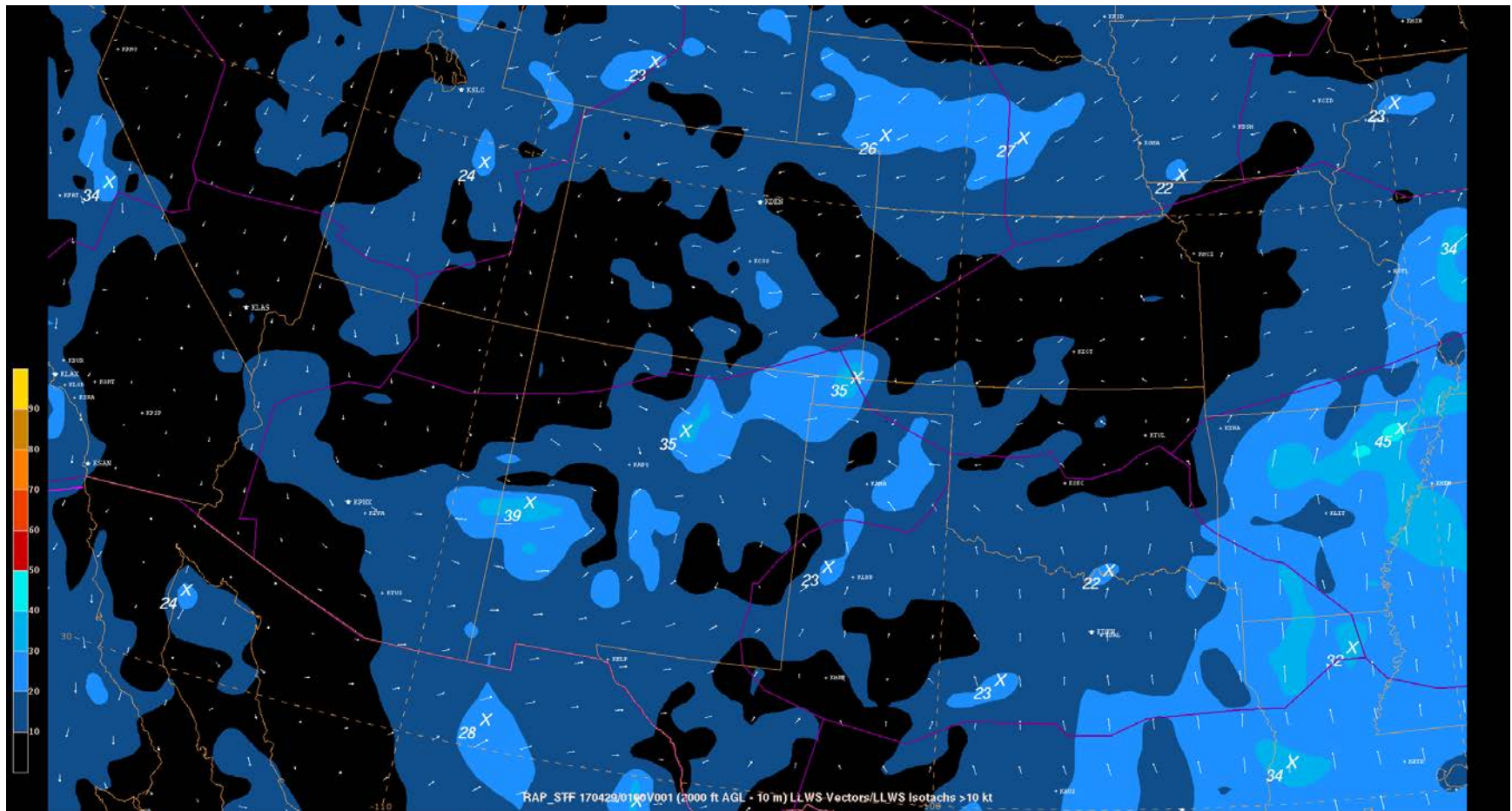


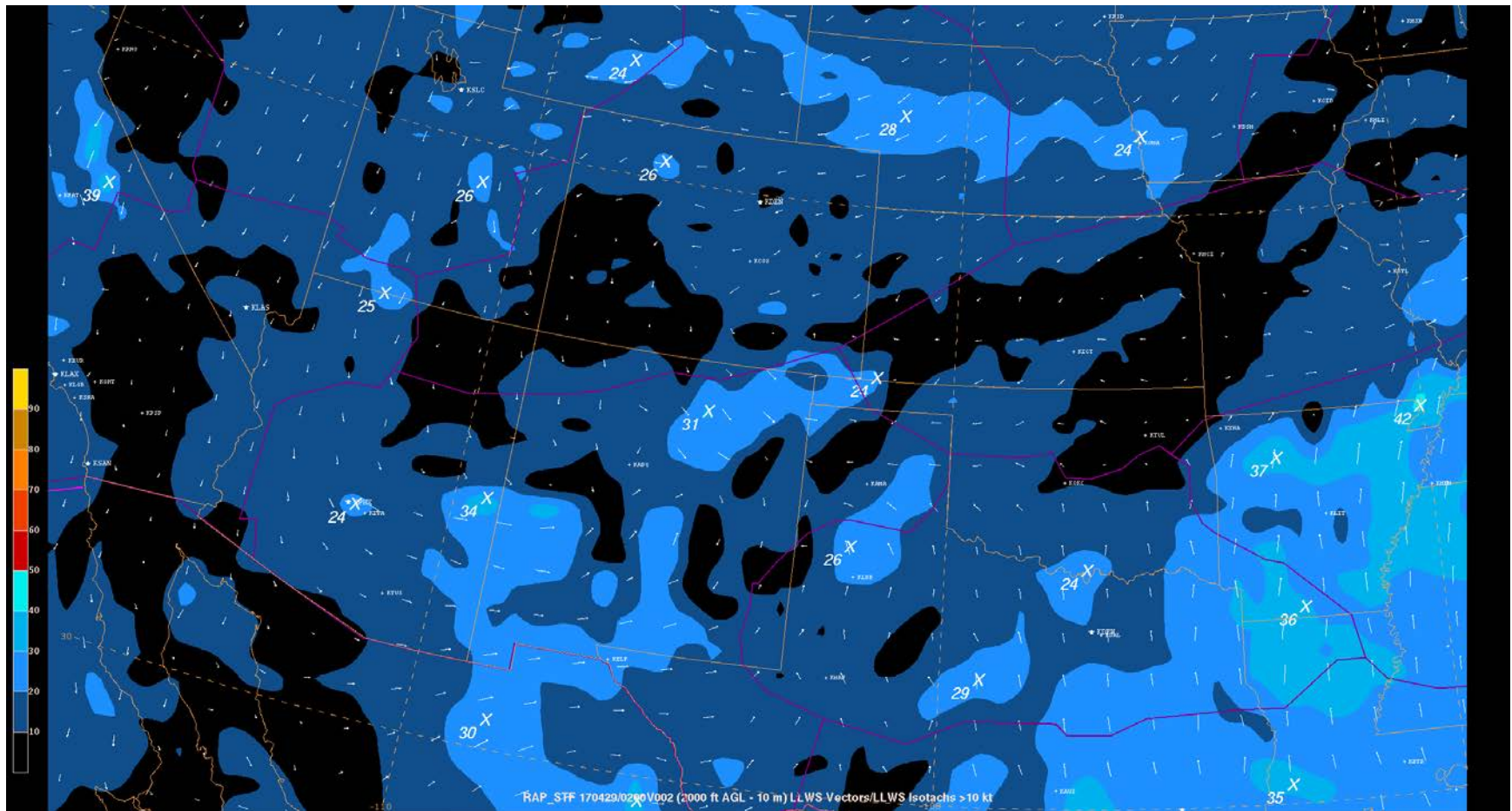


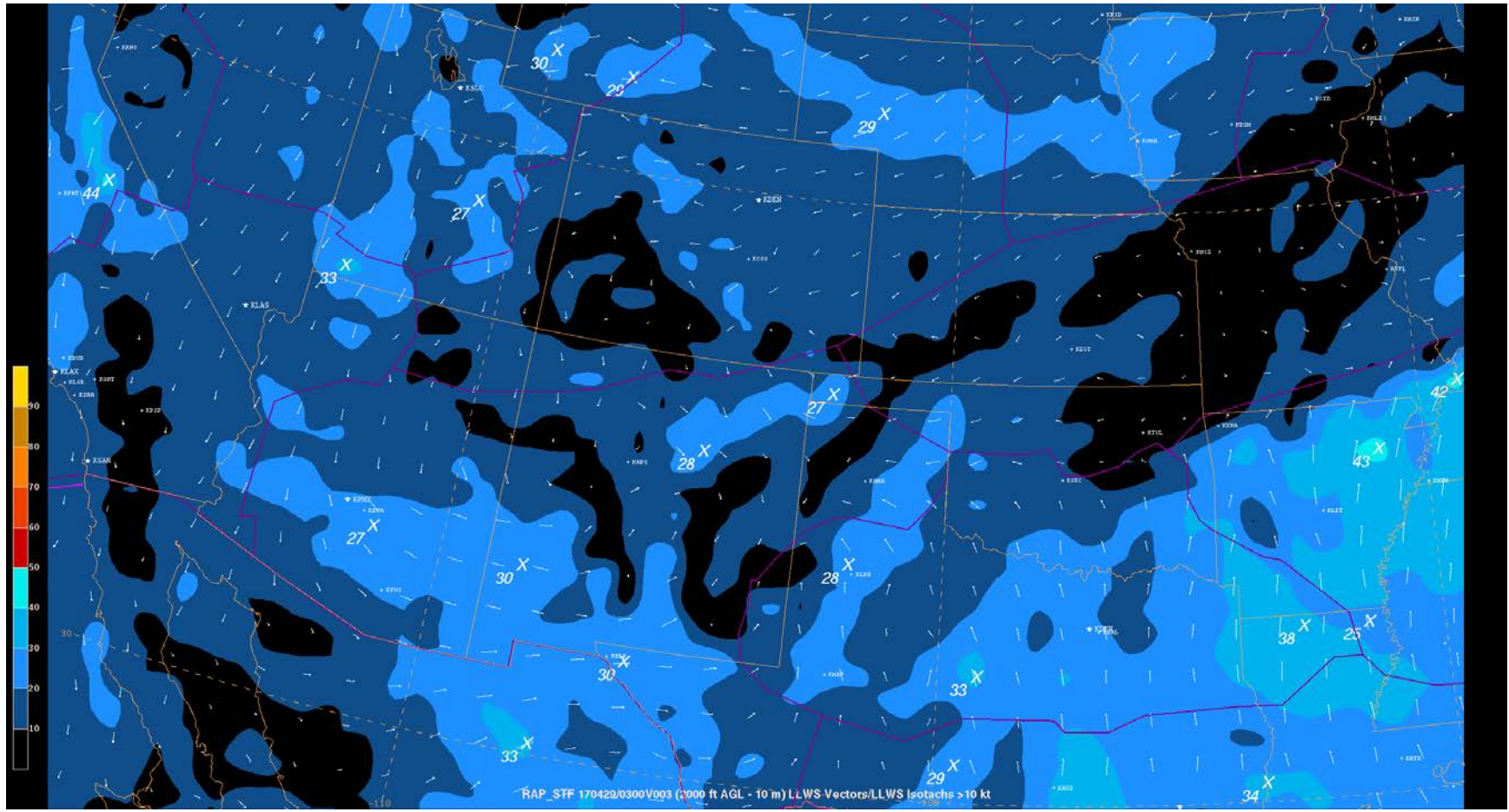


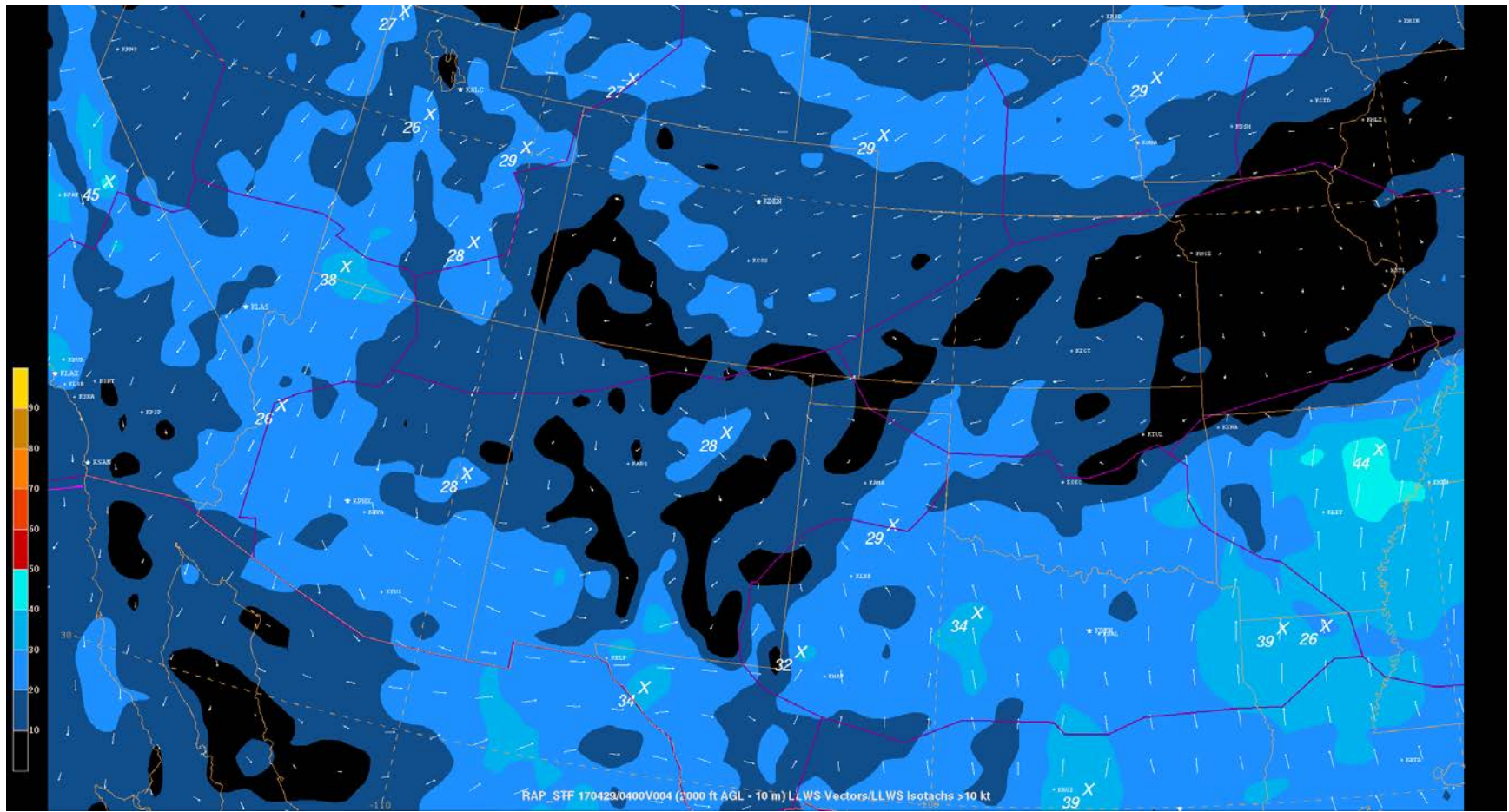


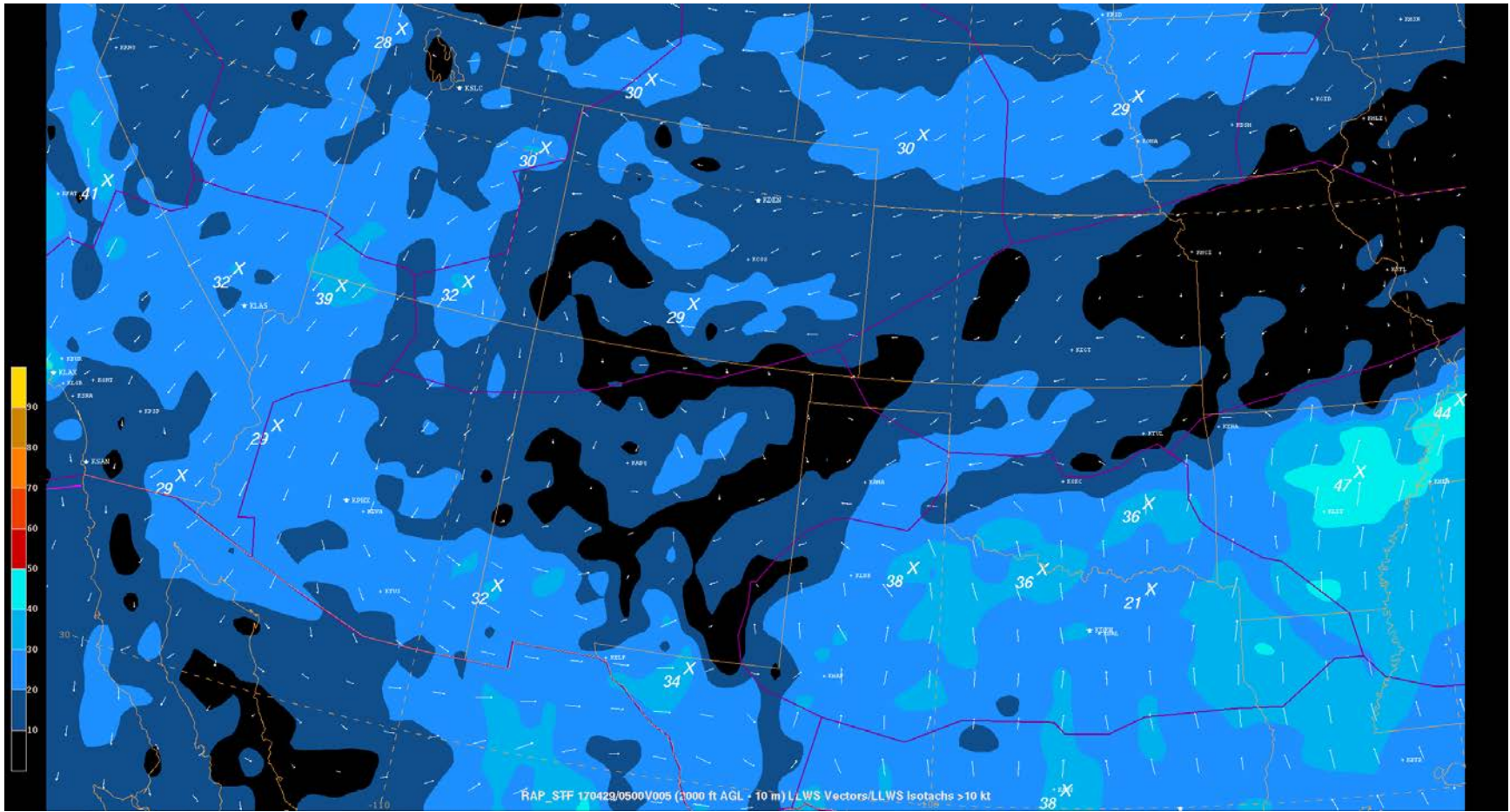




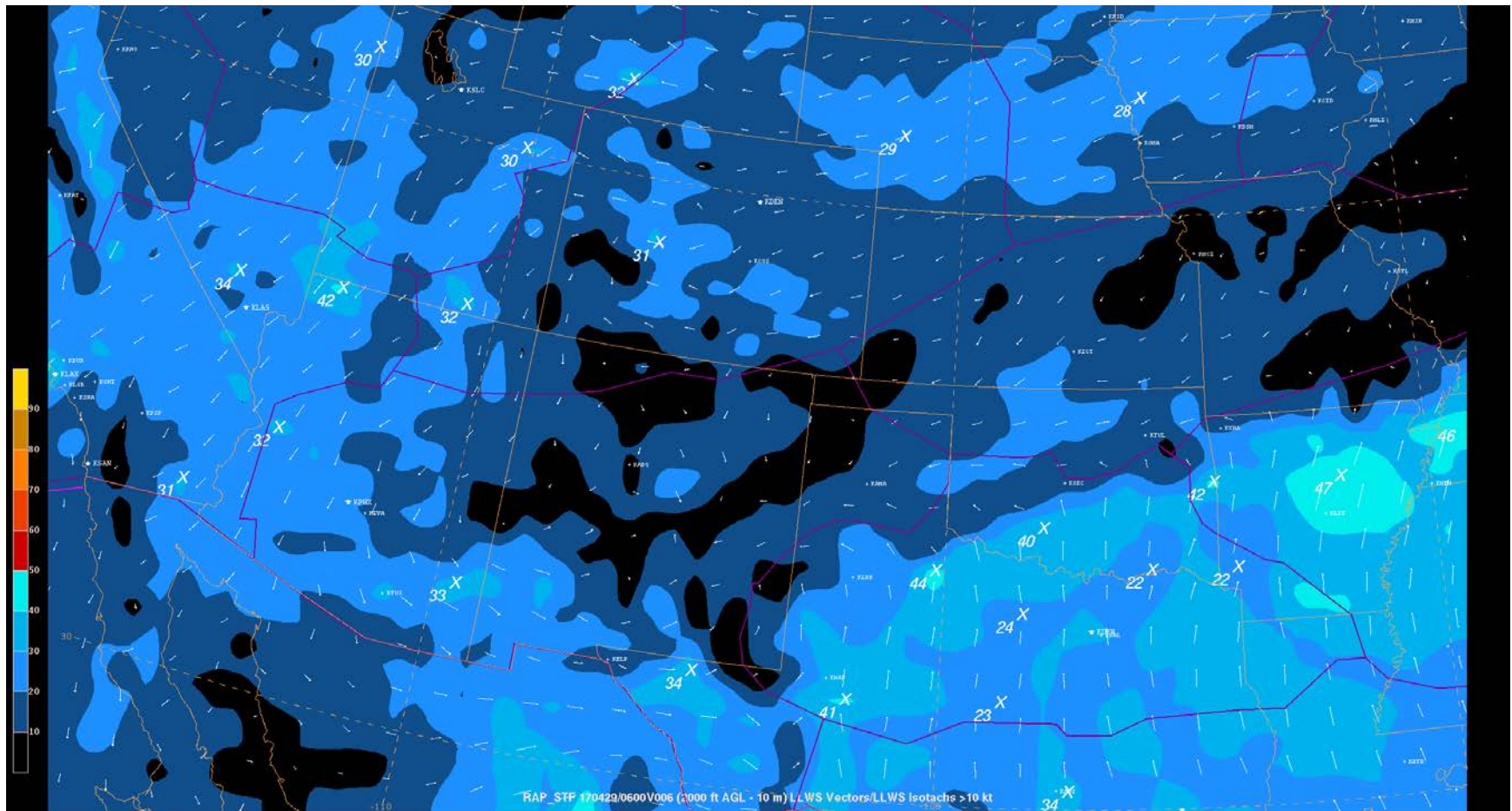


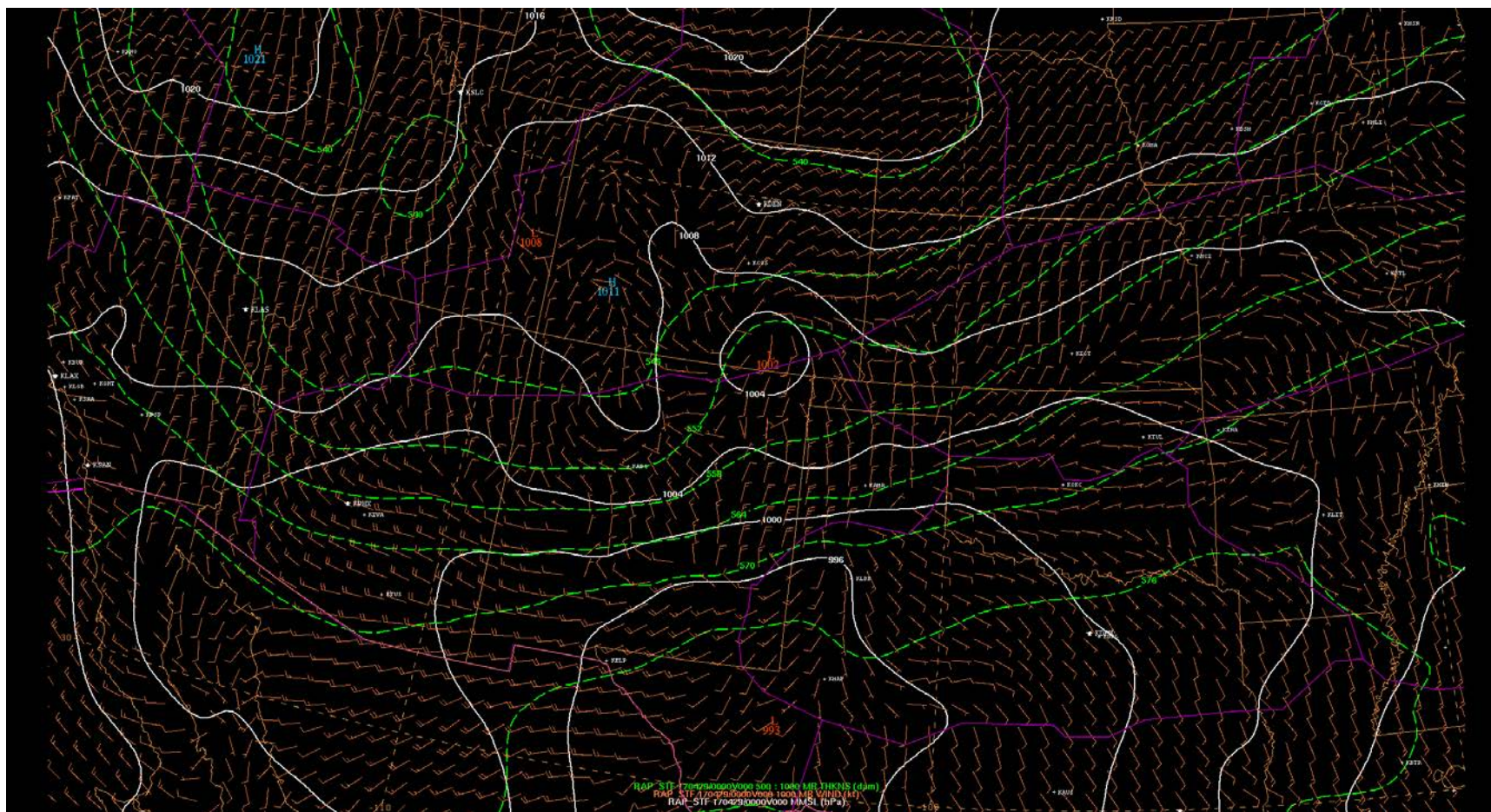


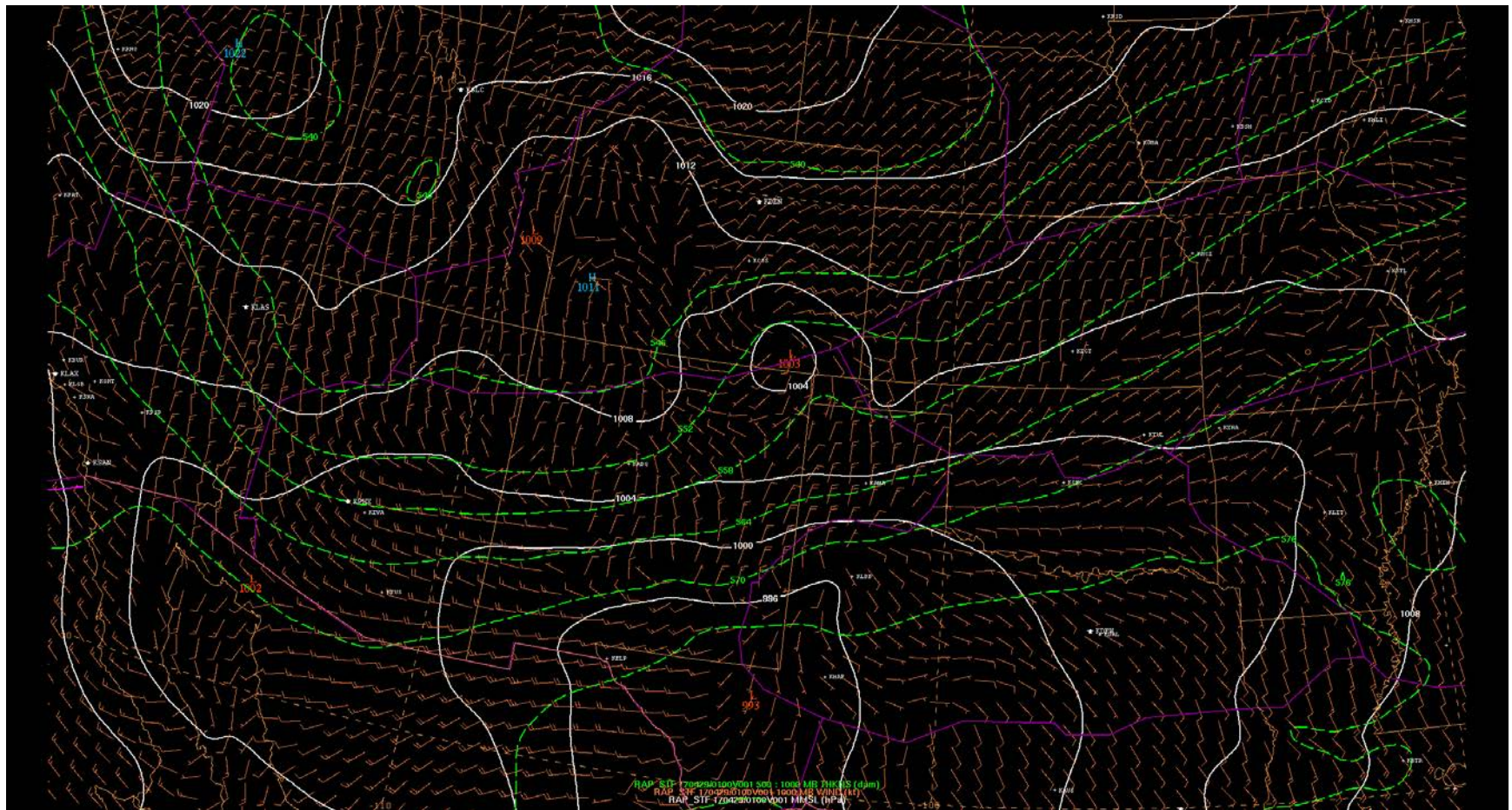


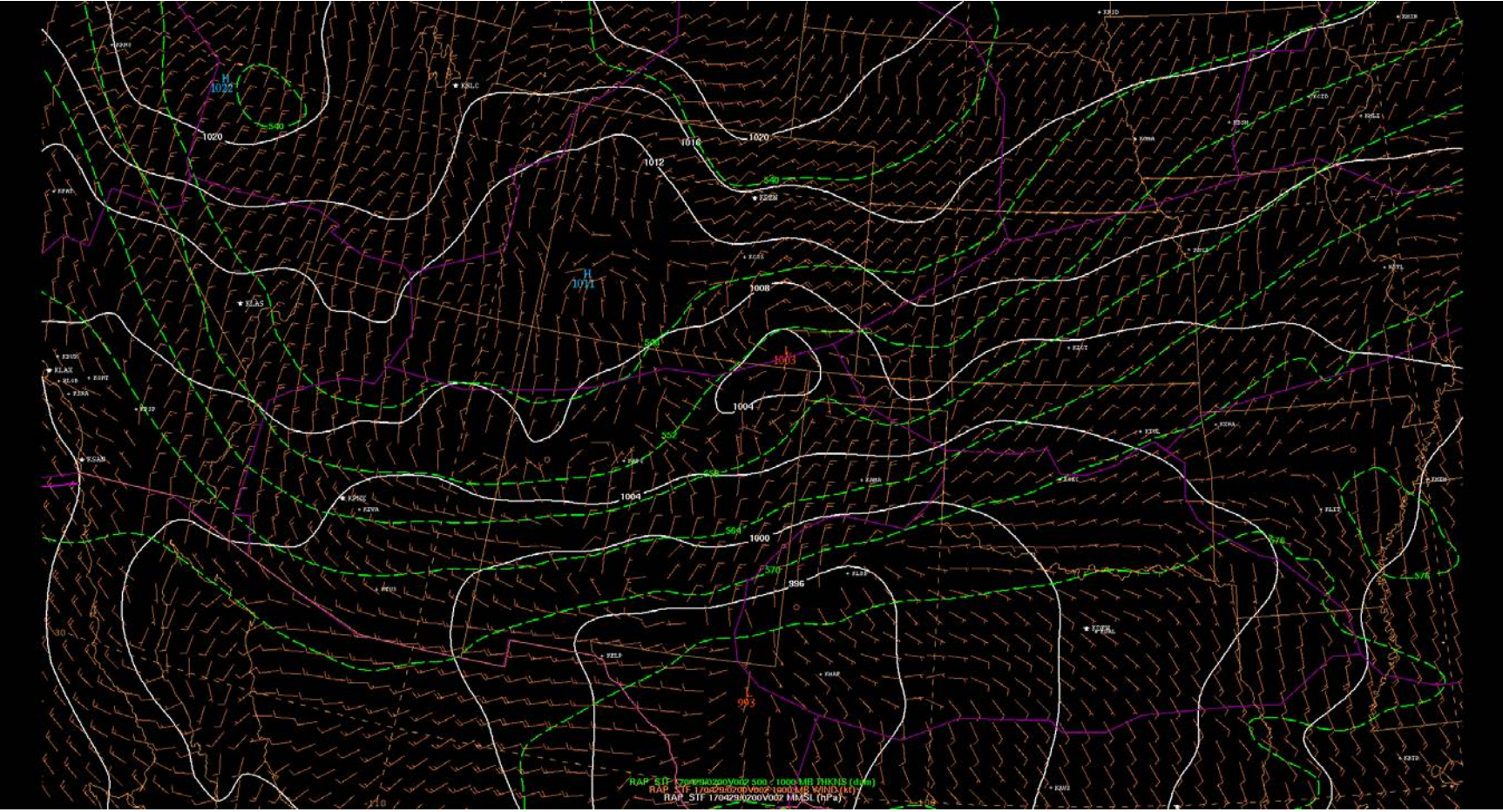


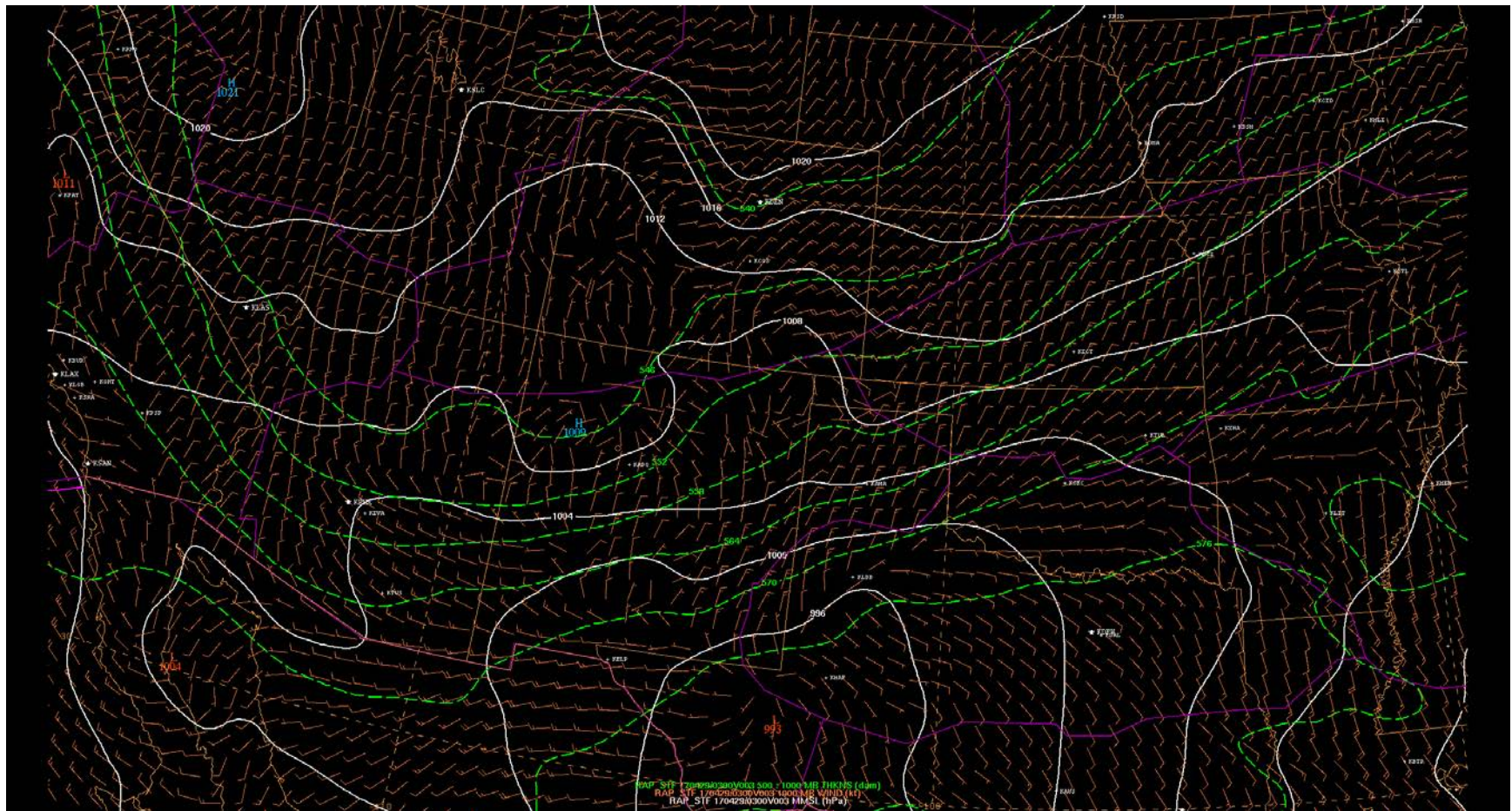


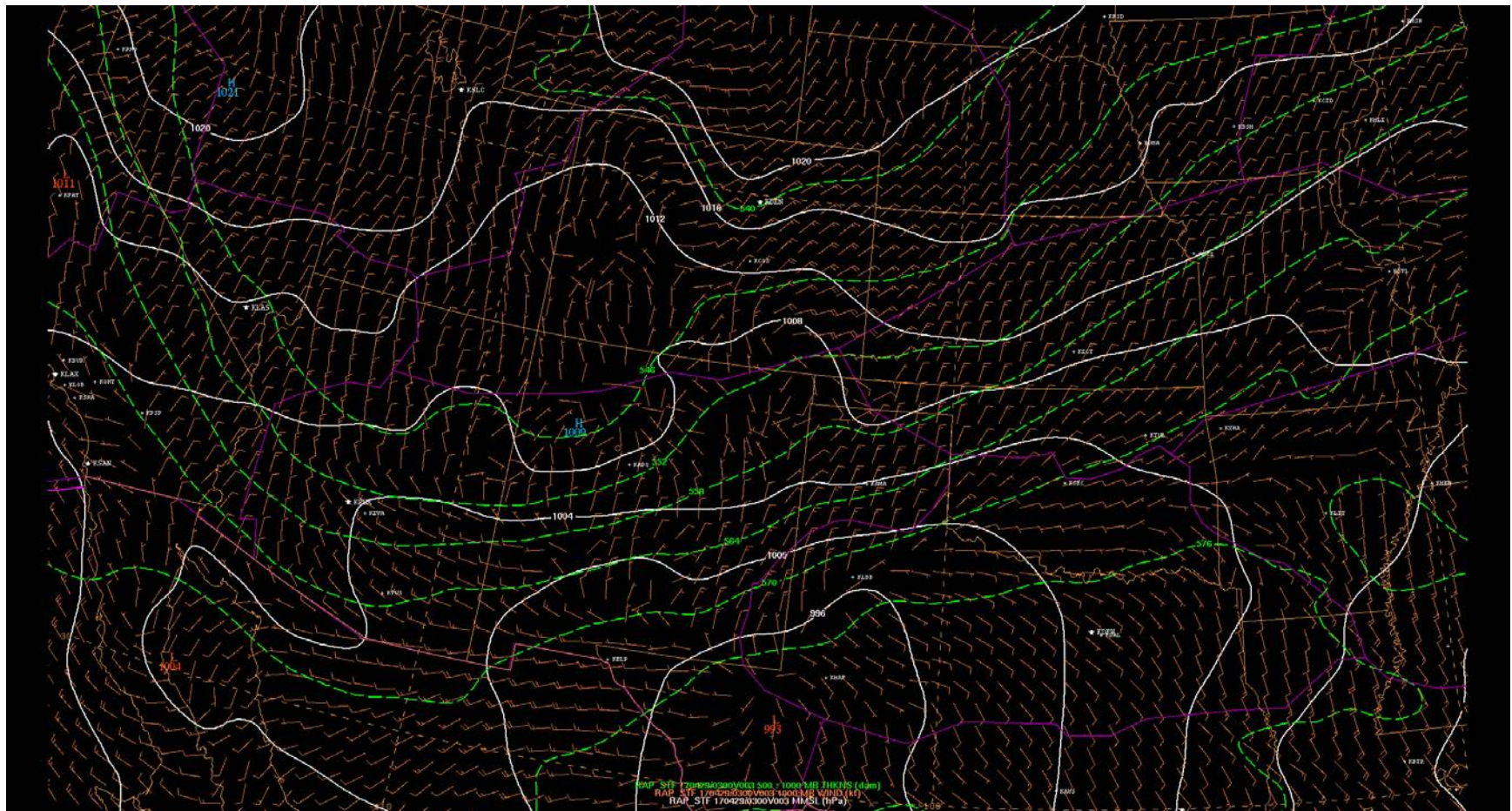


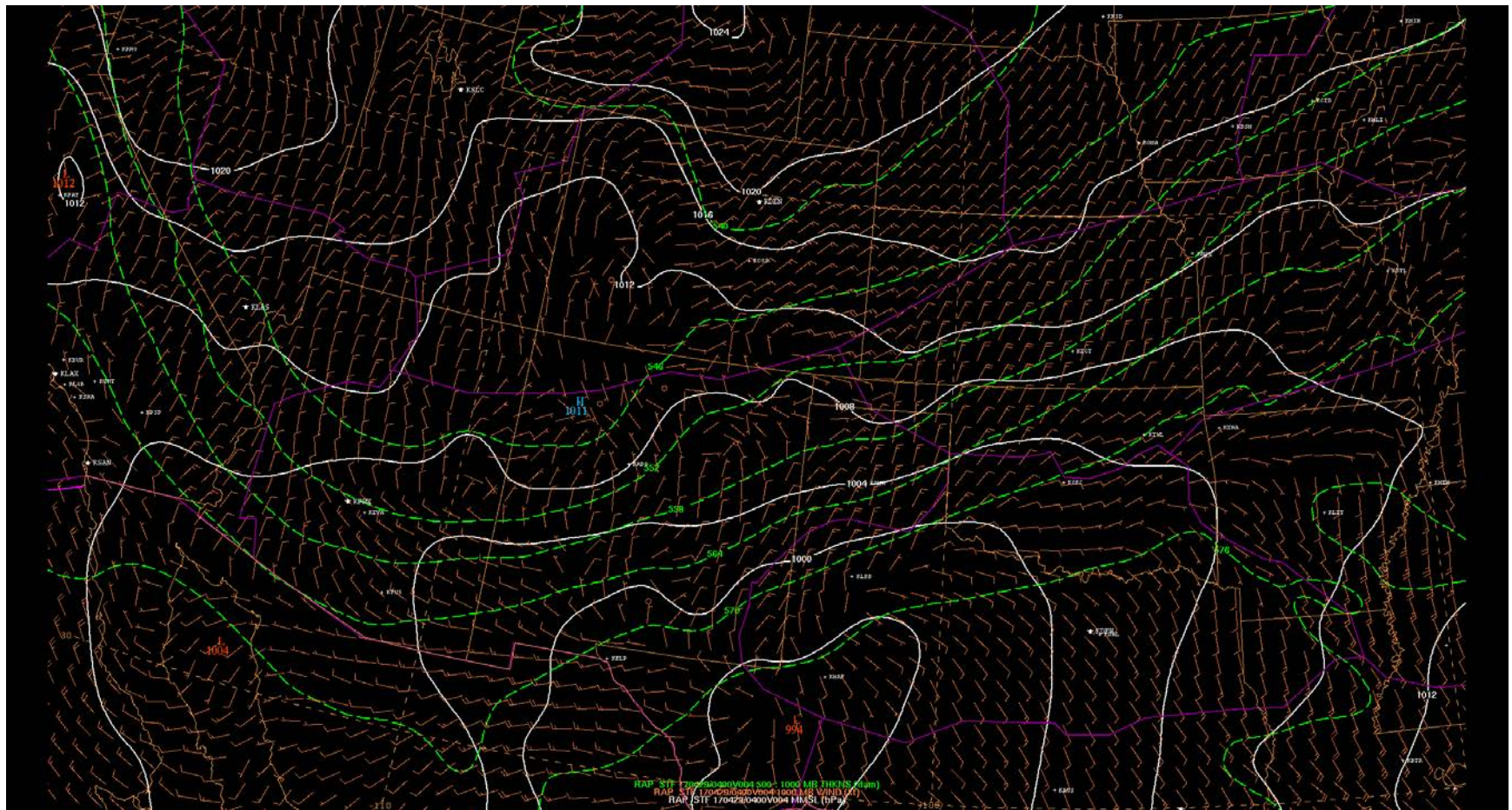


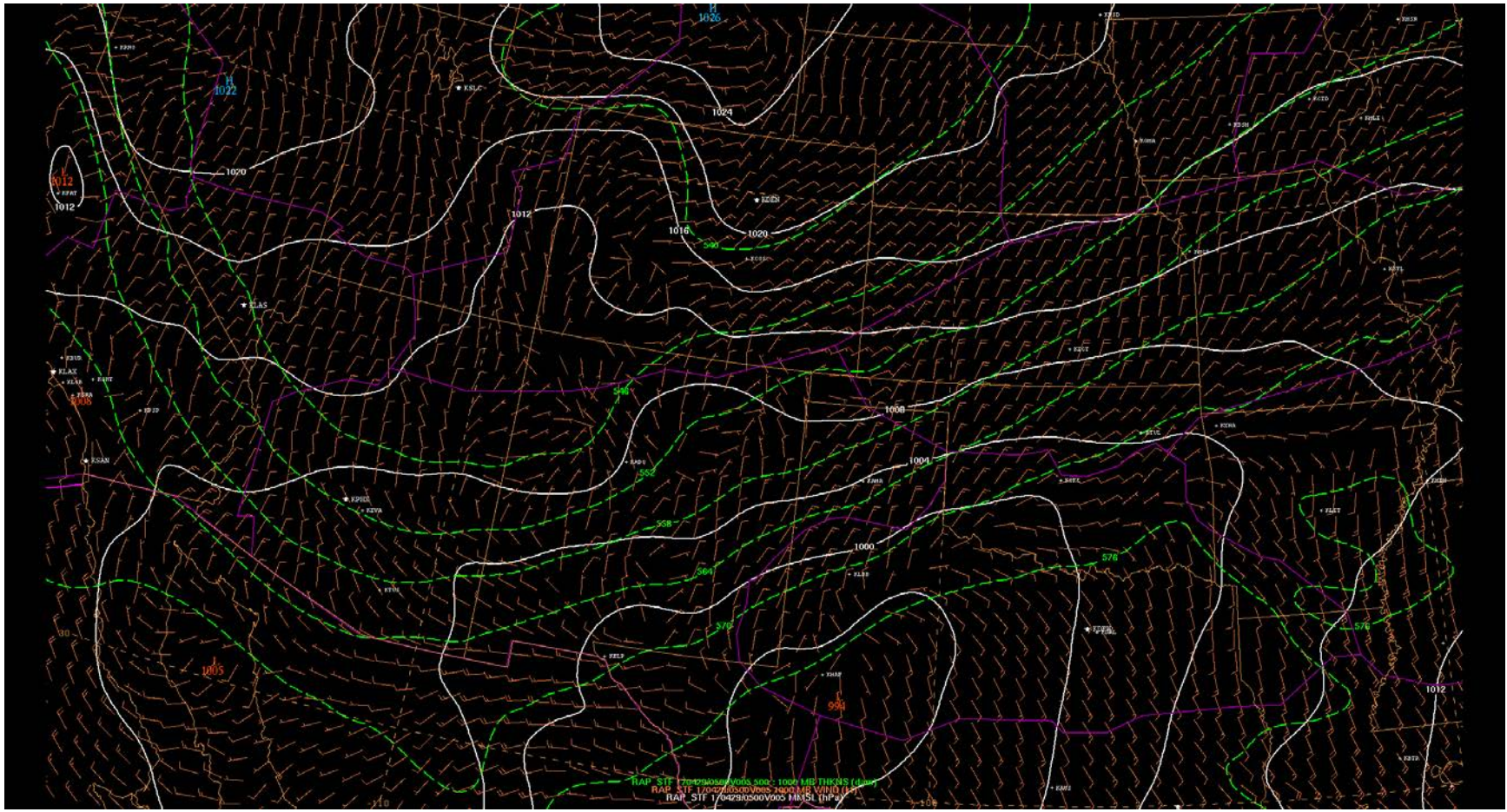




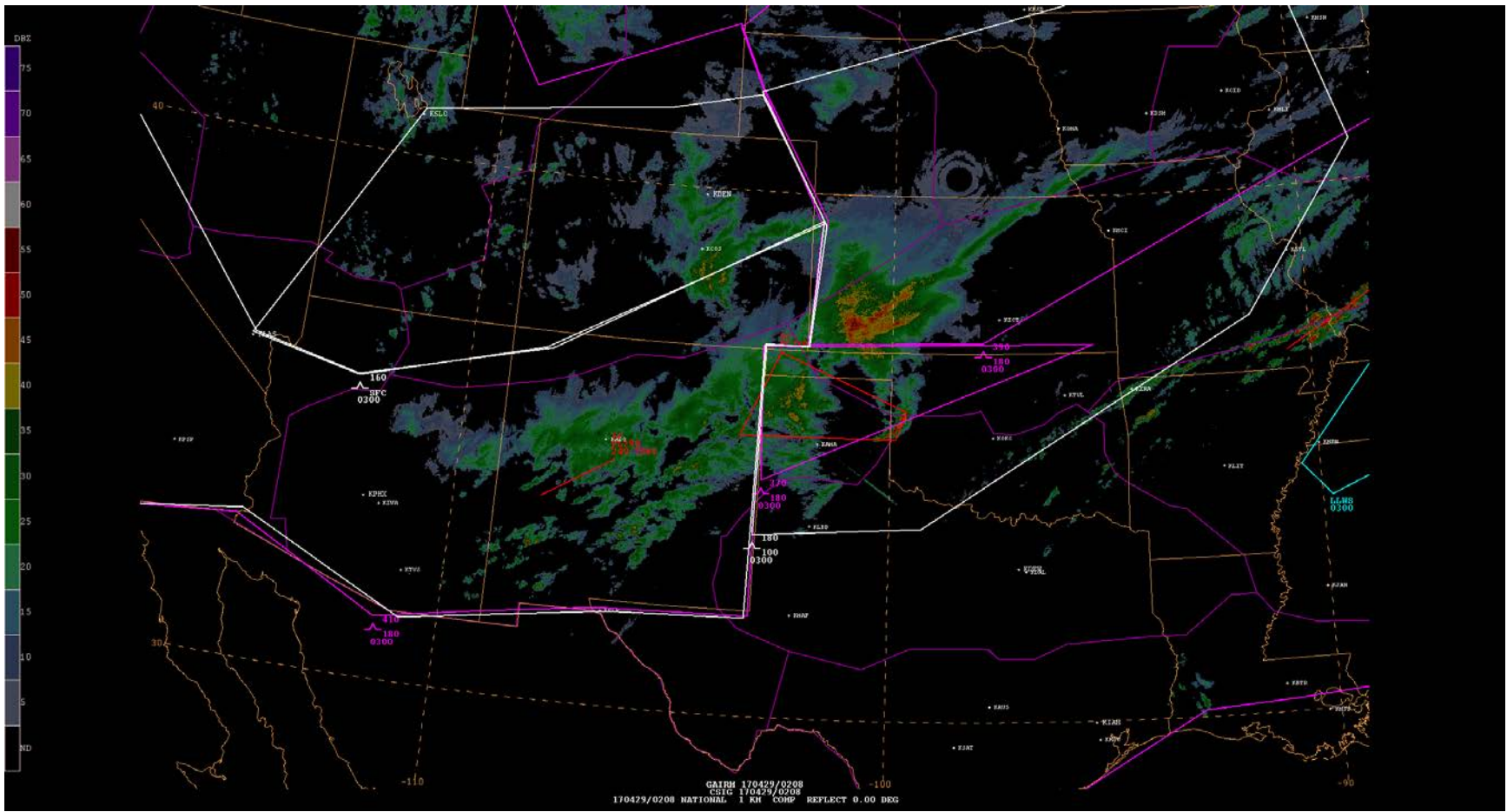


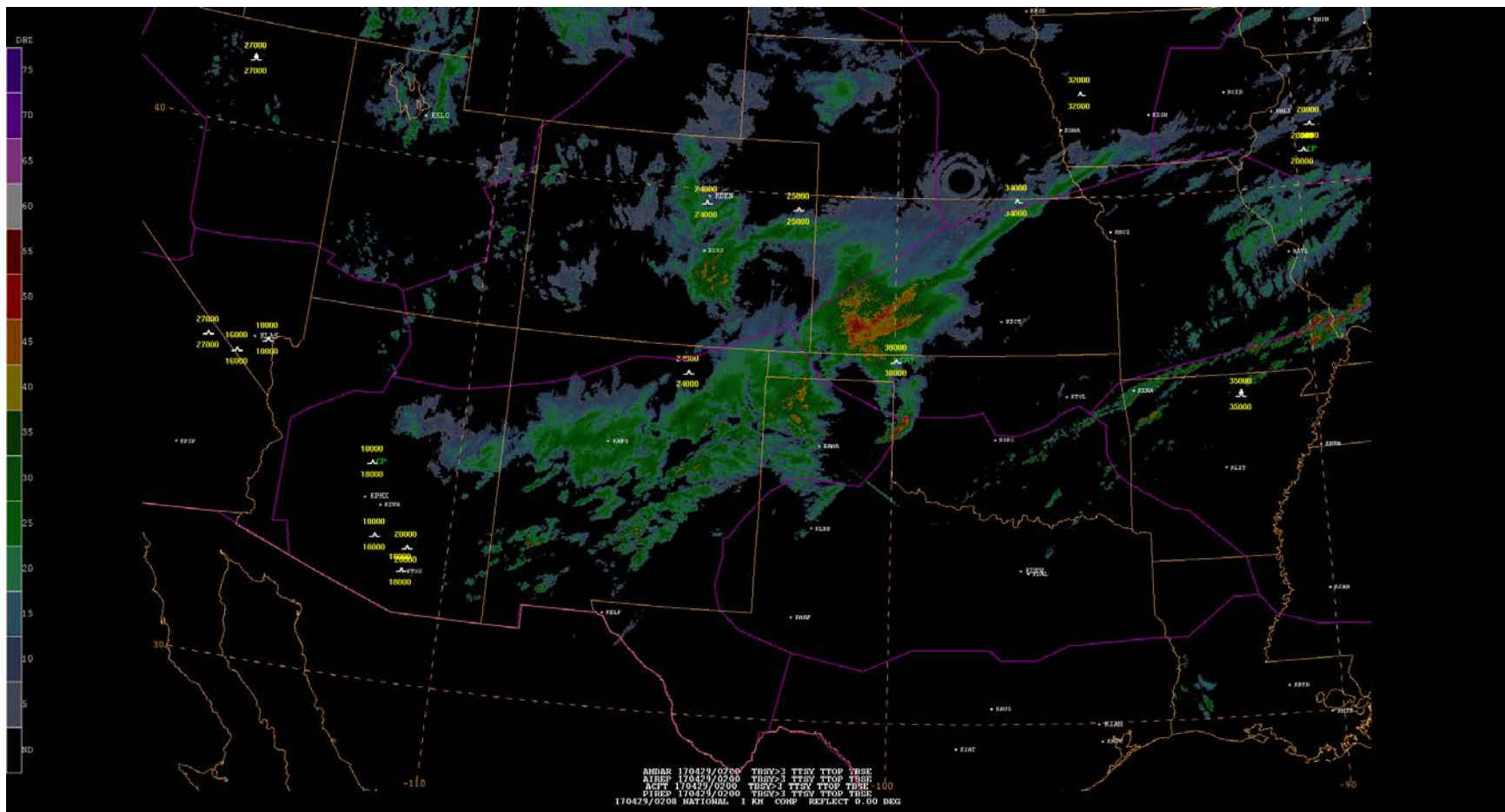


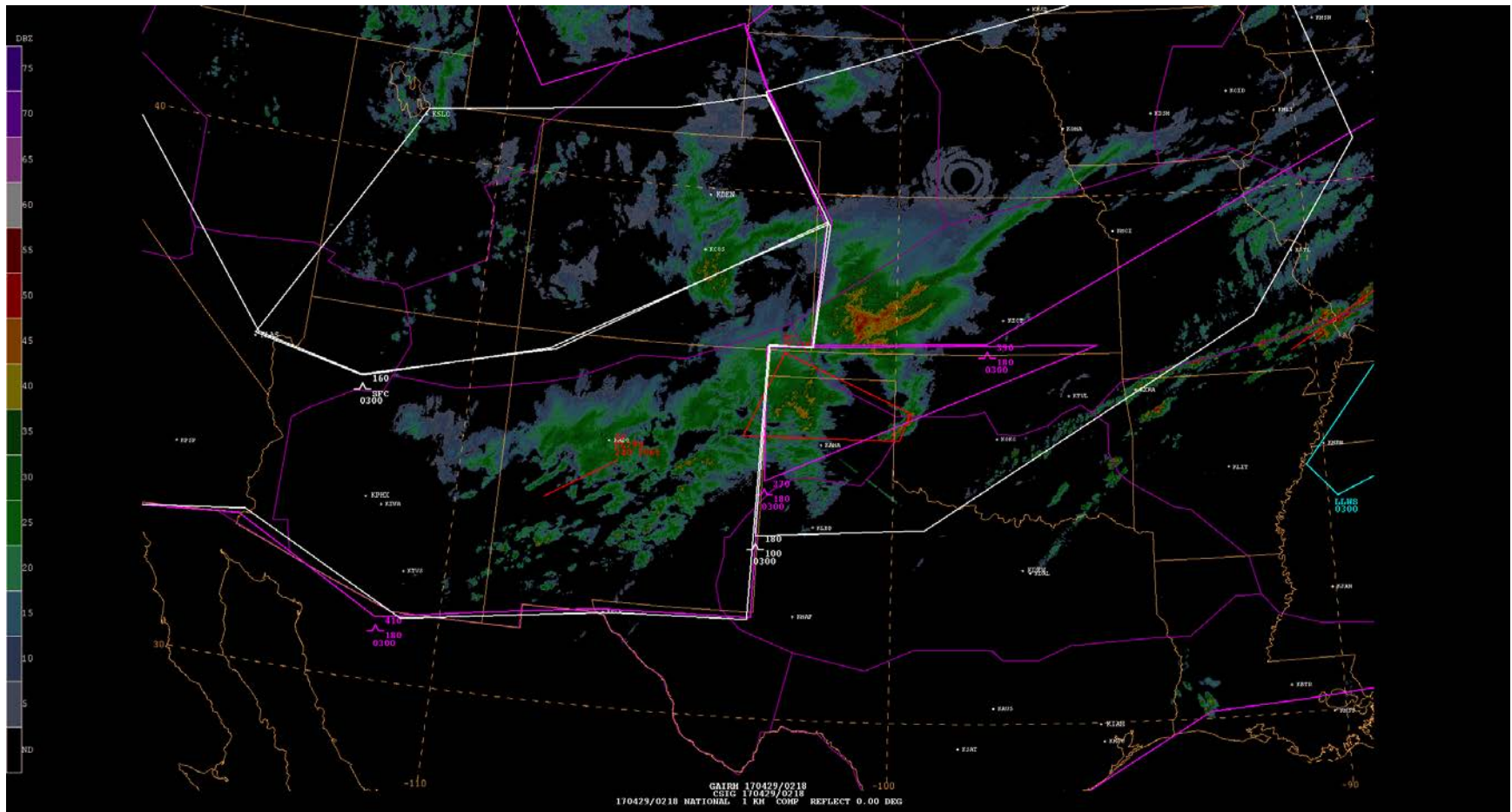


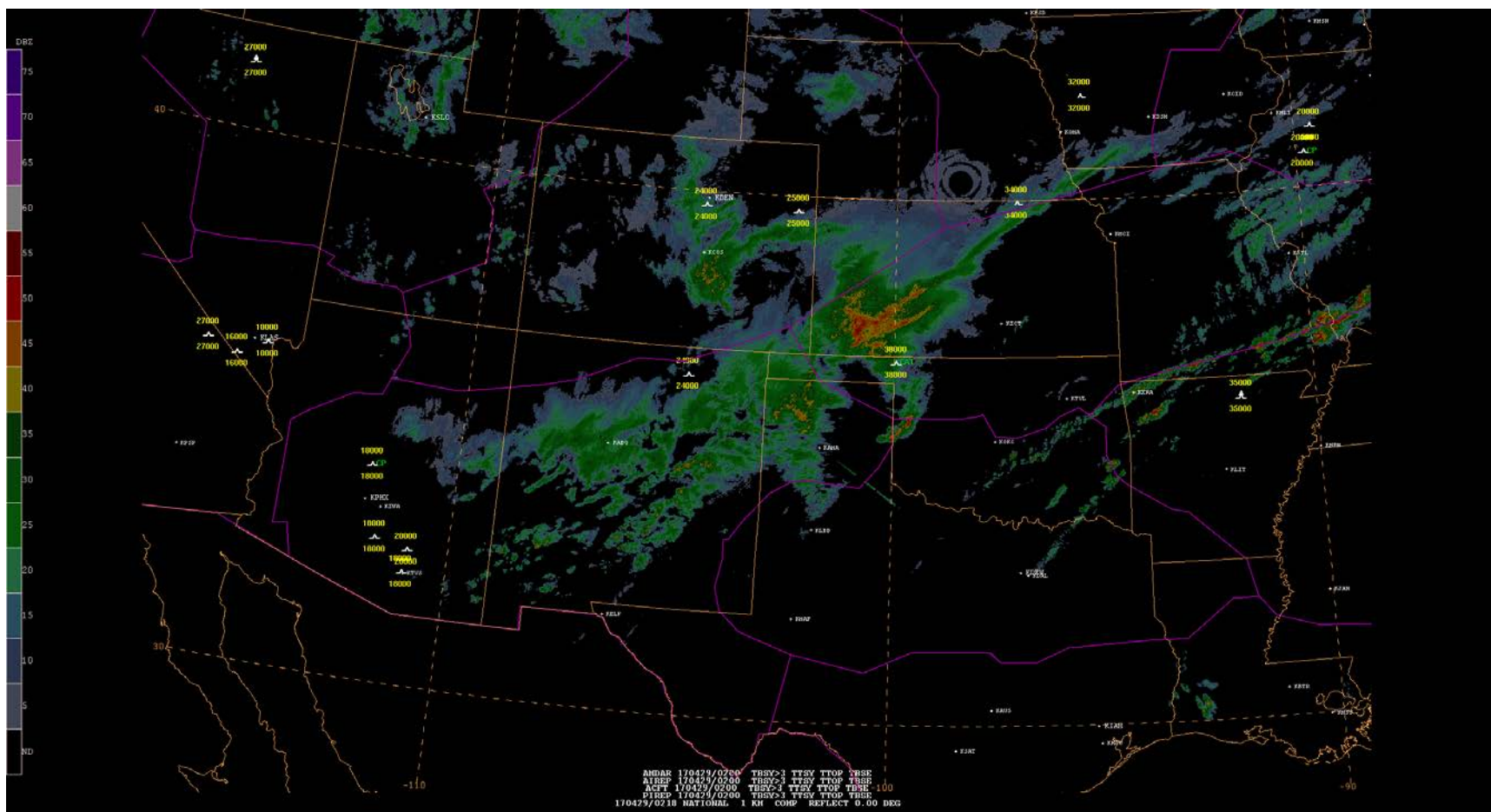


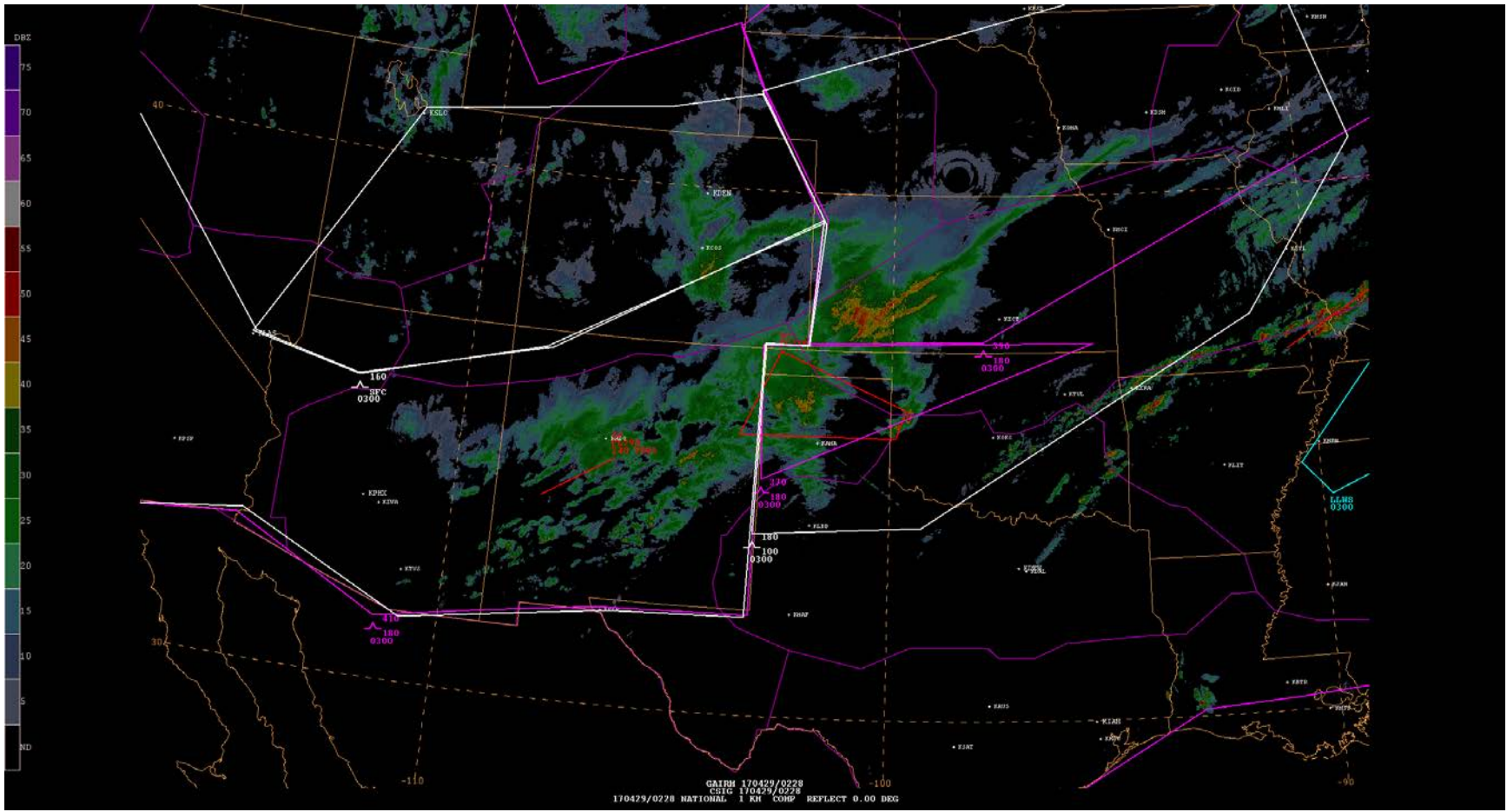




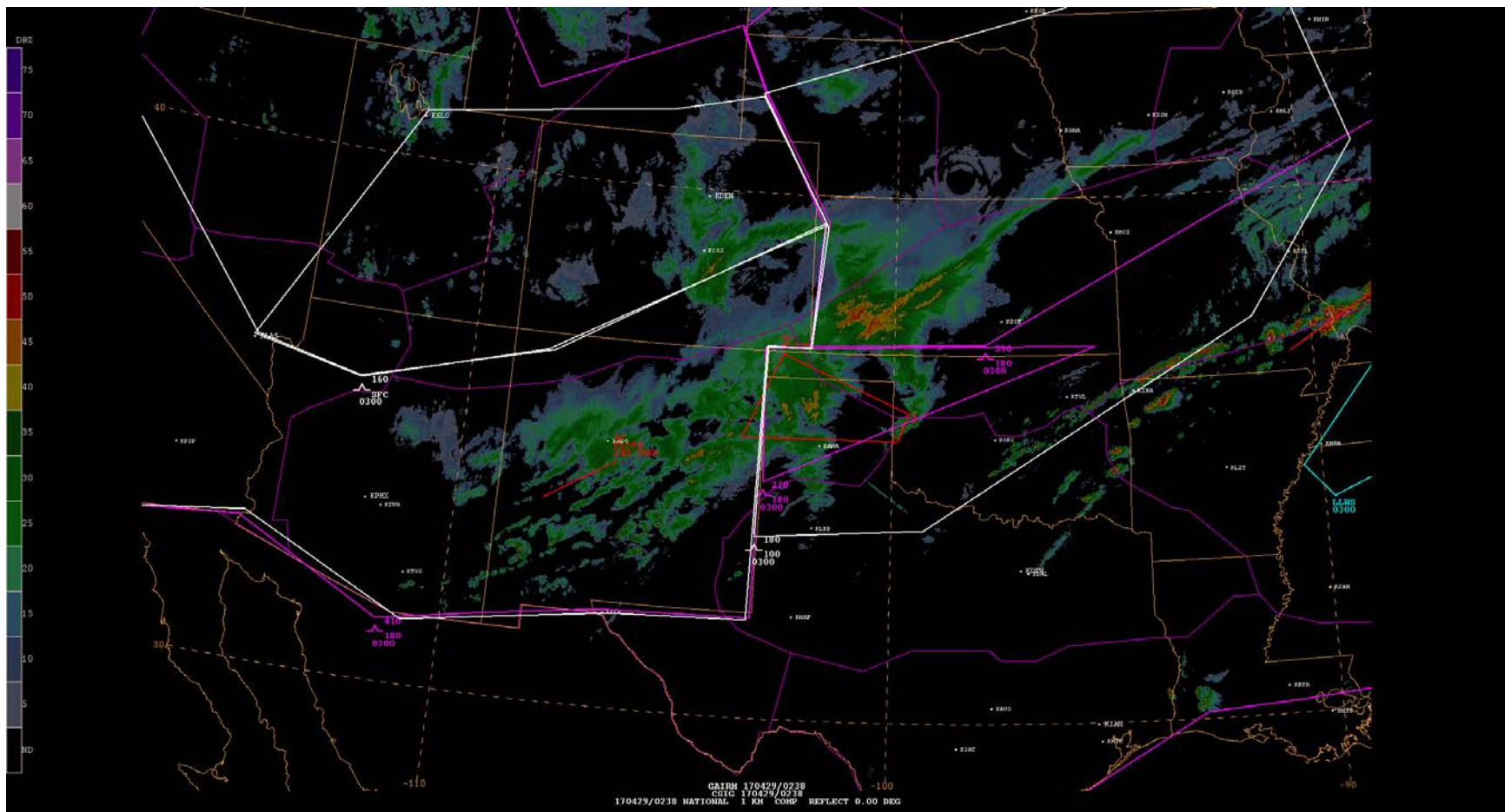


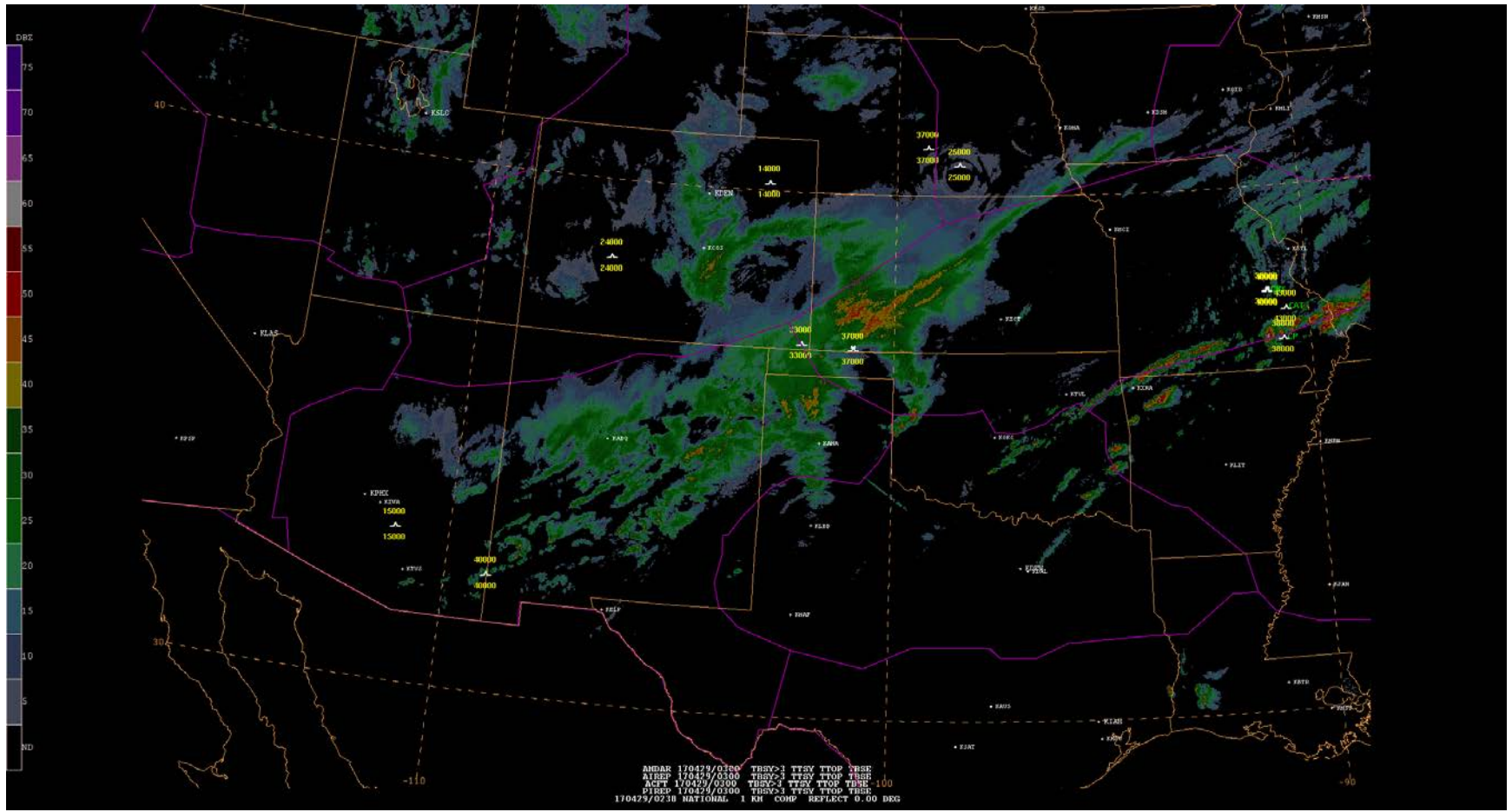






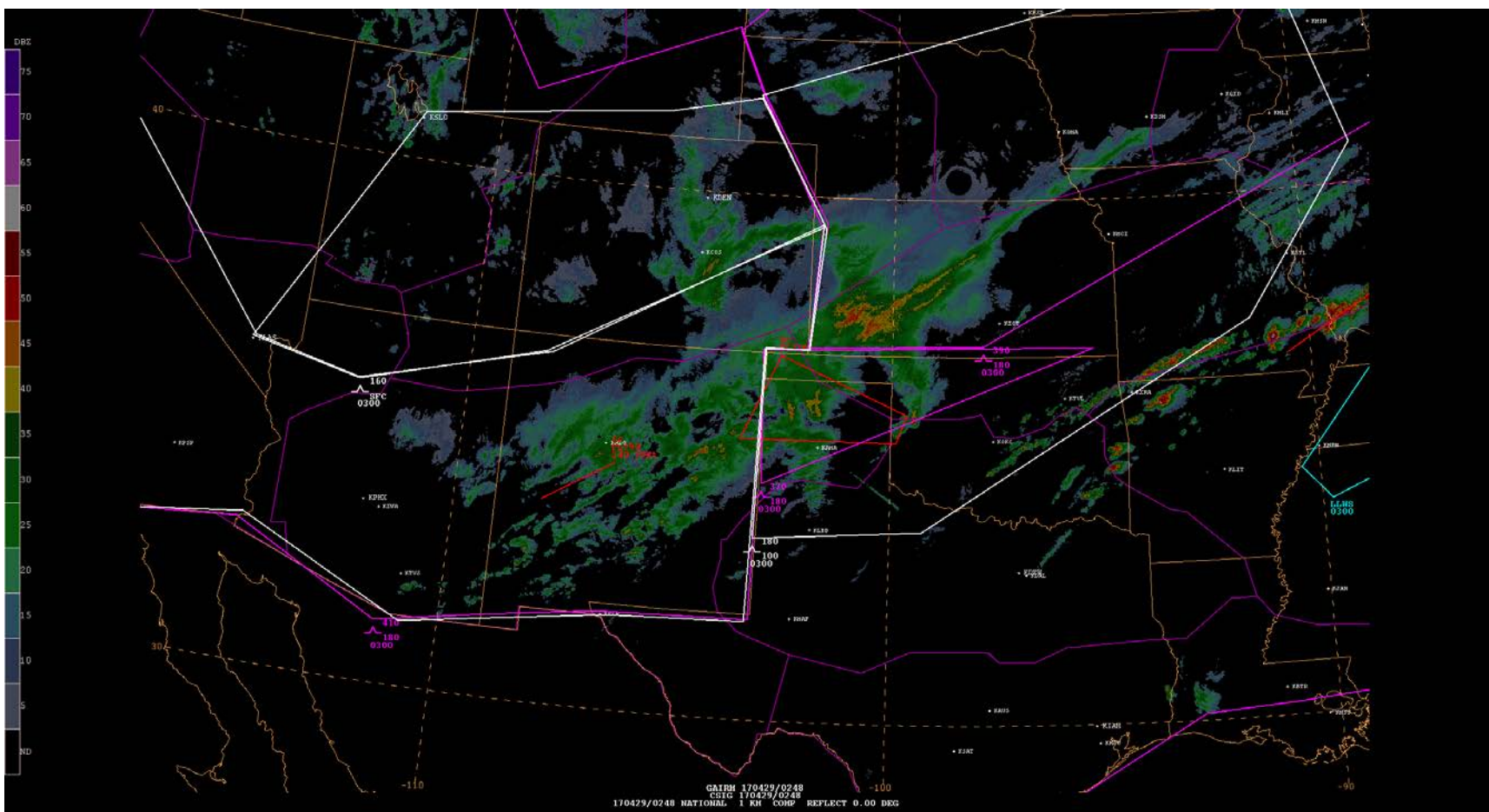


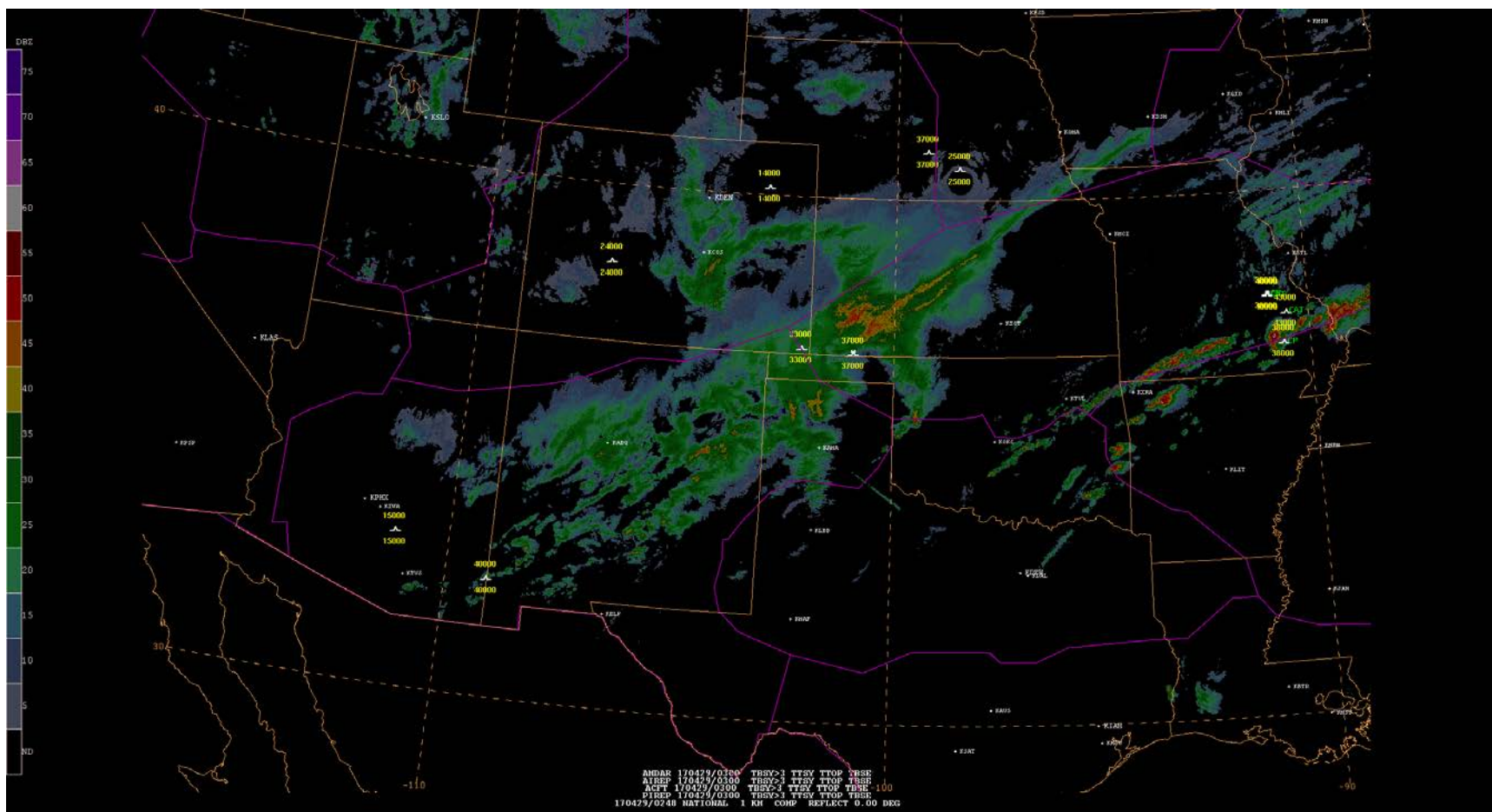




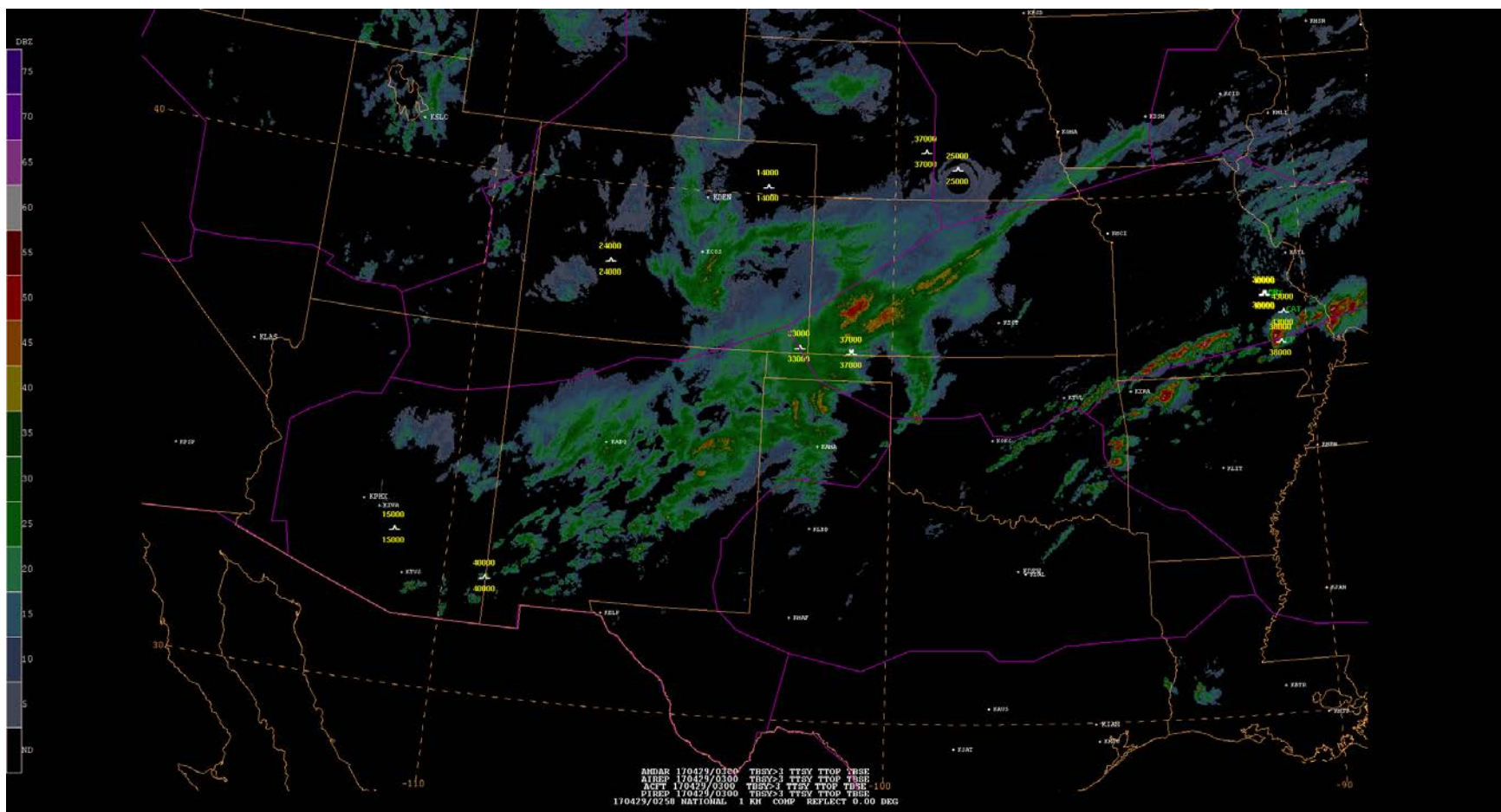
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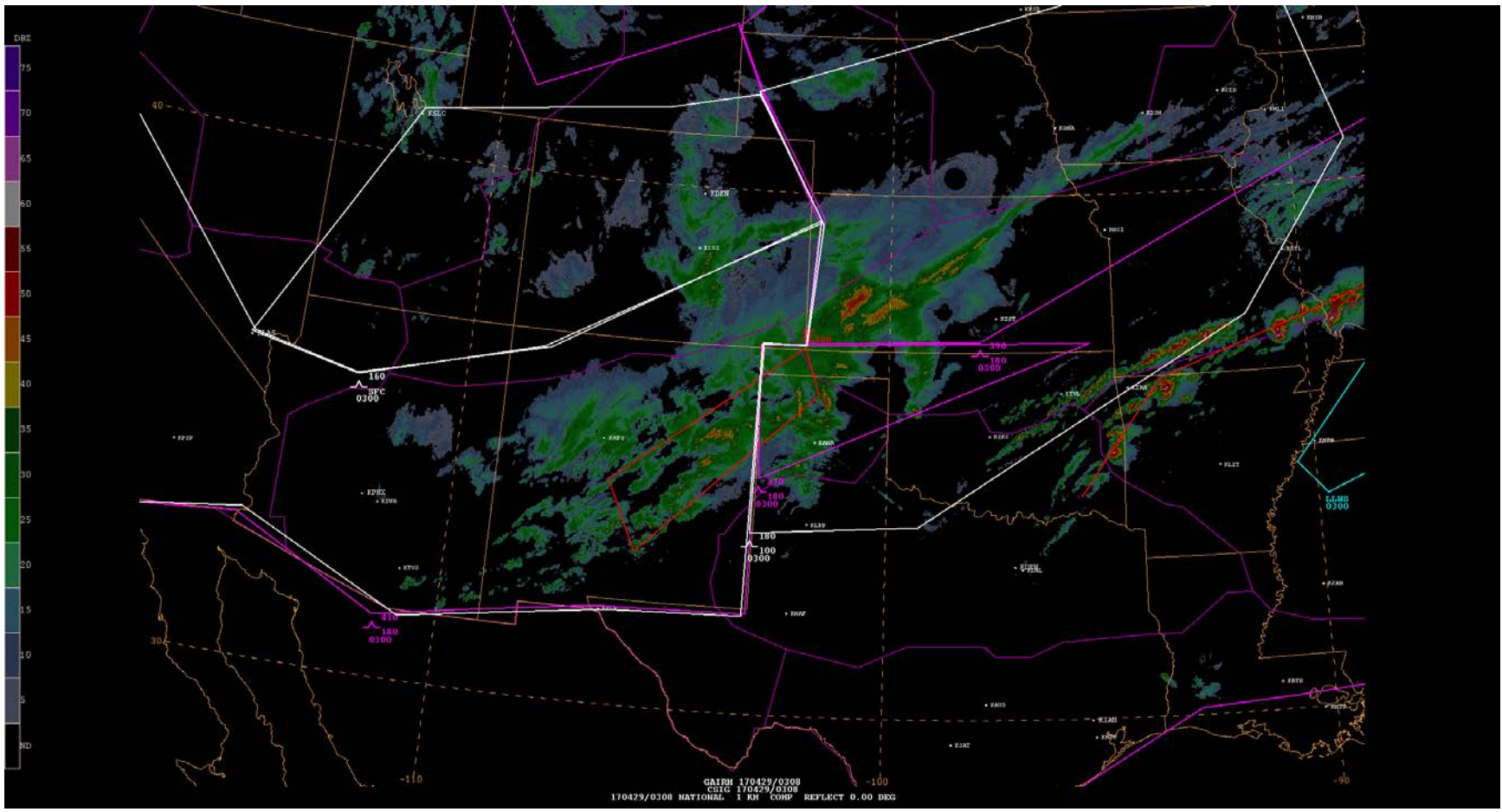




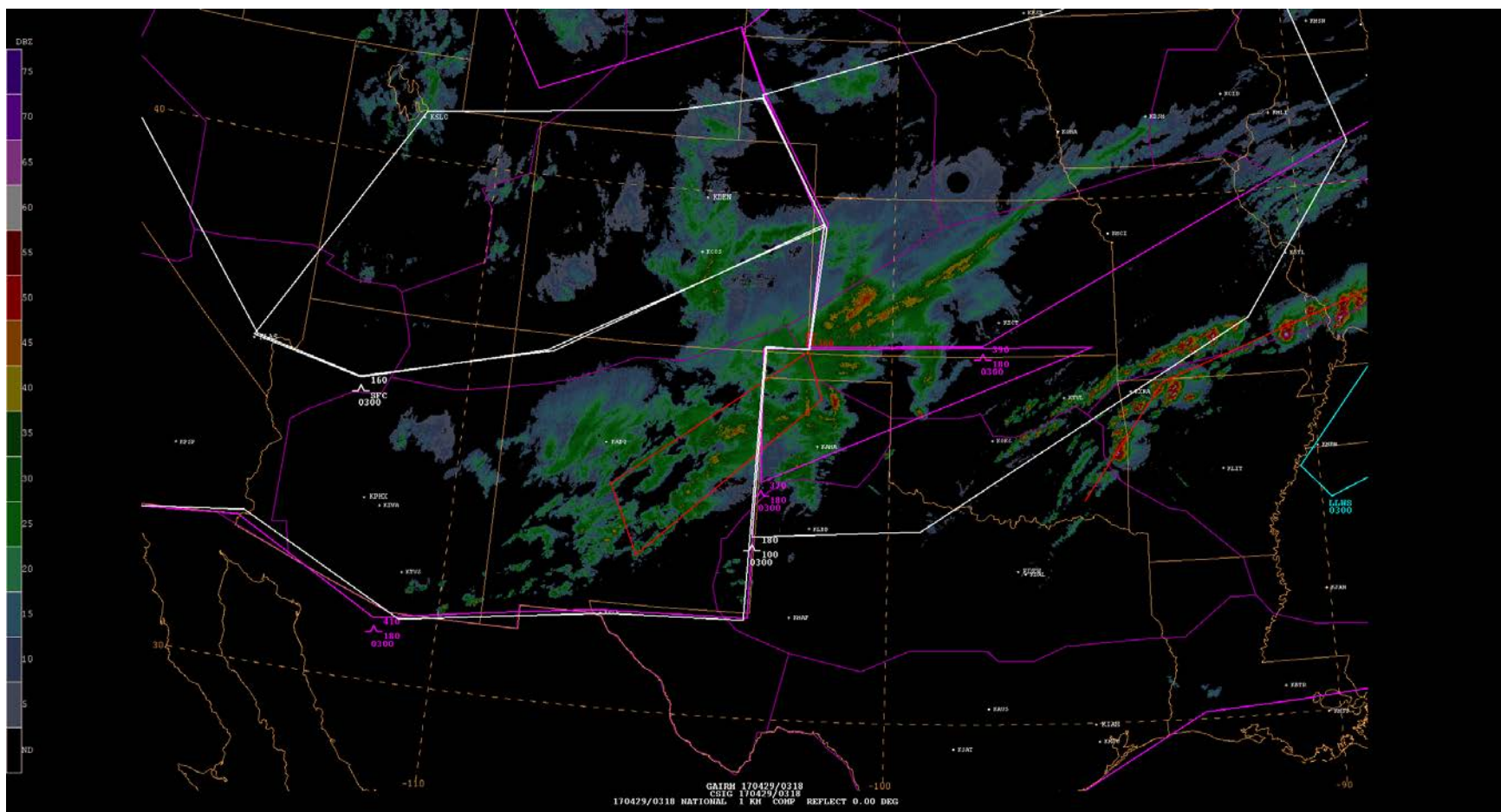


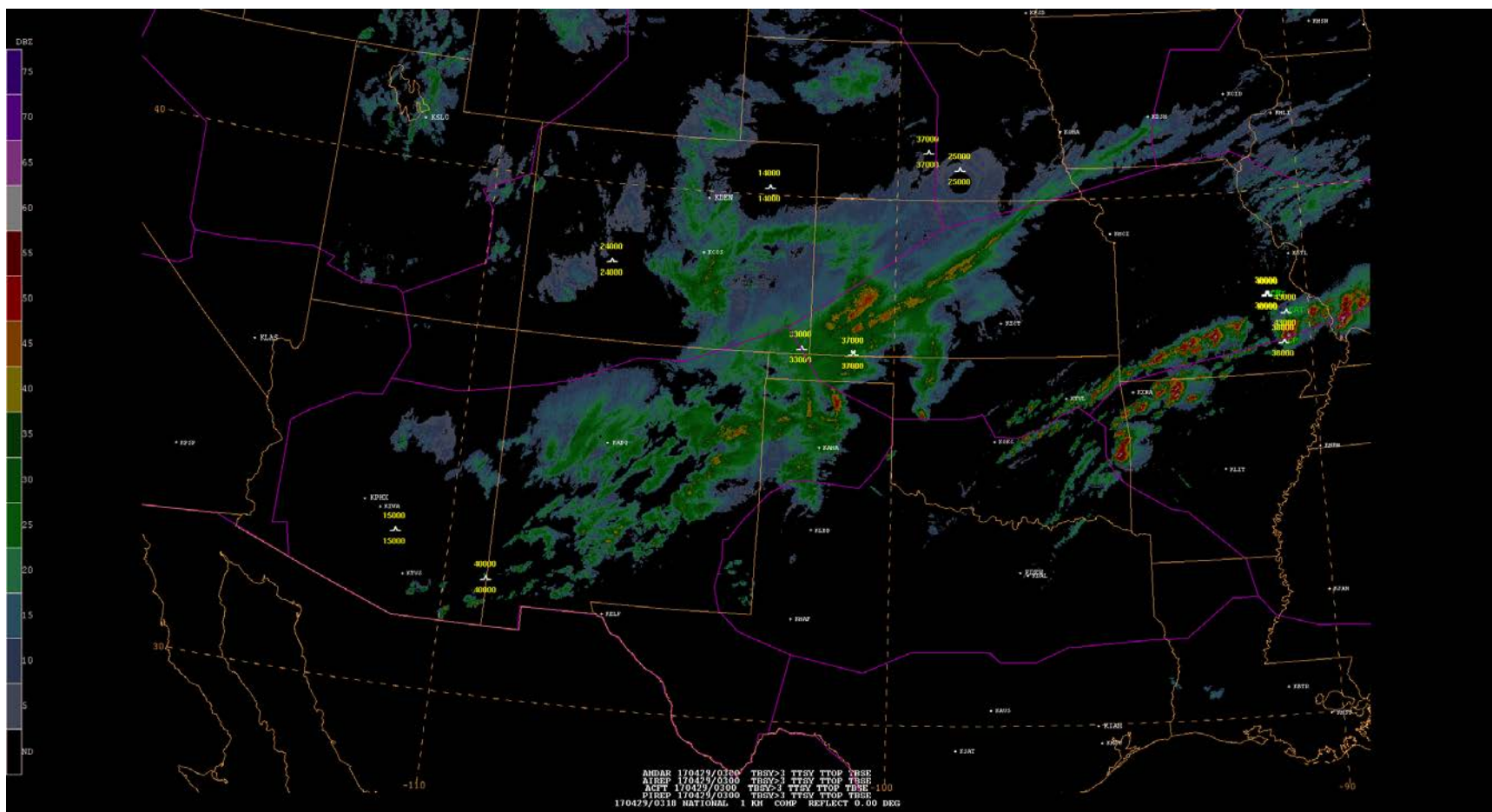




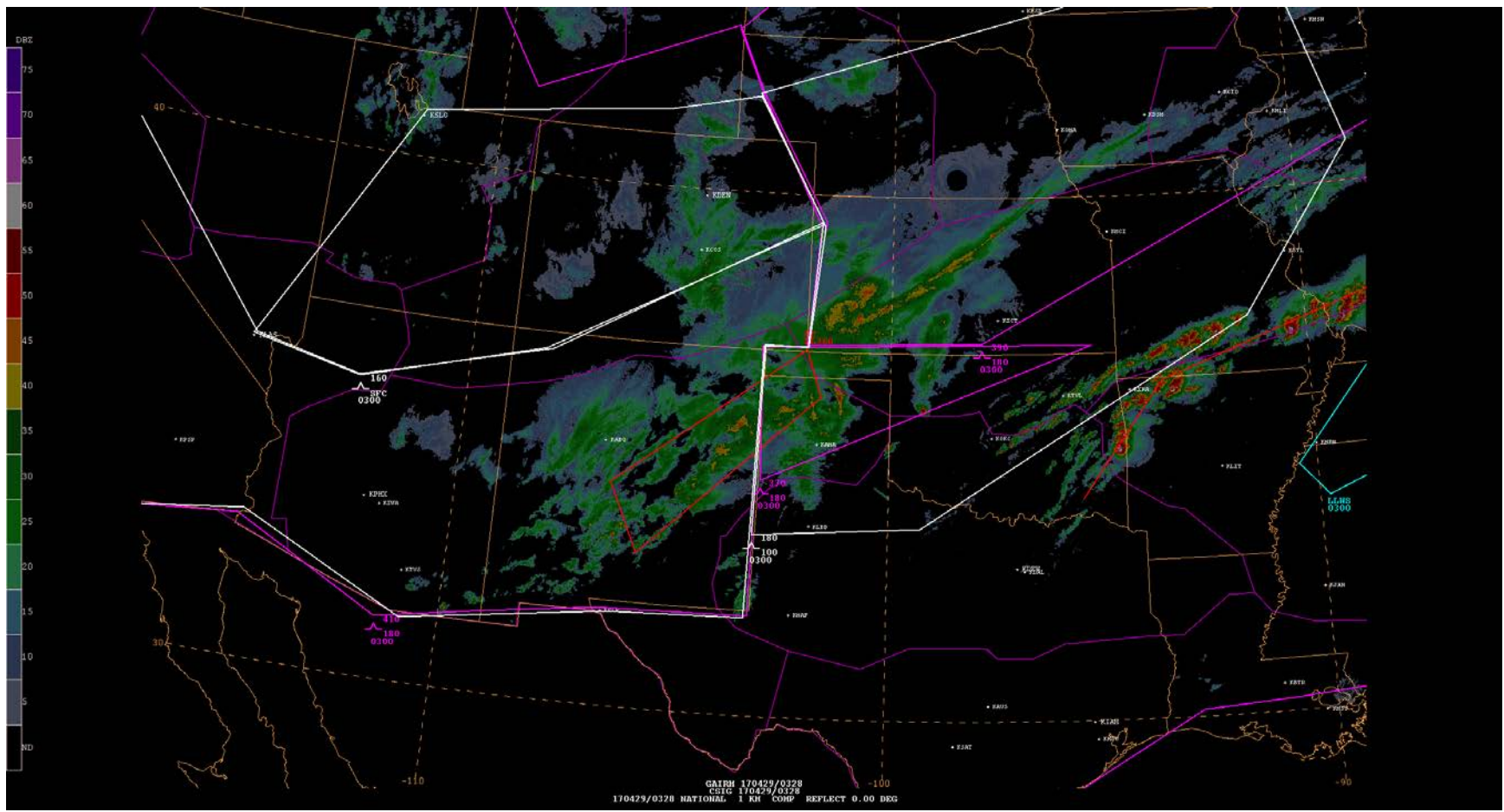












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