



Fall & Winter Weather Hazards

Presented by:

Fort Rucker Weather Operations

Products & Services

- FRWXOPS Provides:
 - Weather Briefings
 - Resource Protection
 - Observing
 - PMSV
 - Climatology
 - Seasonal Weather Briefings
 - You name it, we do it!

Hours of Operation

- Observing/Forecasting (KOZR)
 - 01L Monday - 01L Saturday, excluding federal holidays
- Contact 26 OWS for after-hours support
 - DSN 331-2651/2652/2653
 - COMM 318-529-2651/2652/2653
 - <https://26ows.us.af.mil>
- Request DD 175-1 thru JET
 - No account needed

Specification/Amendment Criteria

26 OWS	NWS	FRWXOPS
$\geq 1500 / 3$	$\geq 3000 / 5$	$\geq 1500 / 3$
$< 1500 / 3$	$< 2000 / 3$	$\geq 1000 / 3$
$< 600 / 1 \frac{1}{2}$	$< 1000 / 3$	$< 1000 / 3$
$< 200 / 1/2$	$< 600 / 2$	$< 700 / 2$
	$< 200 / 1/2$	$< 600 / 1 \frac{1}{4}$
		$< 500 / 1$
		$< 300 / 1/2$
		$< 200 / 1/4$

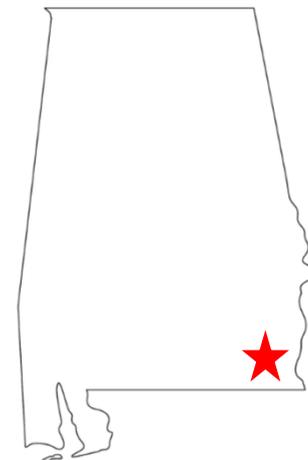
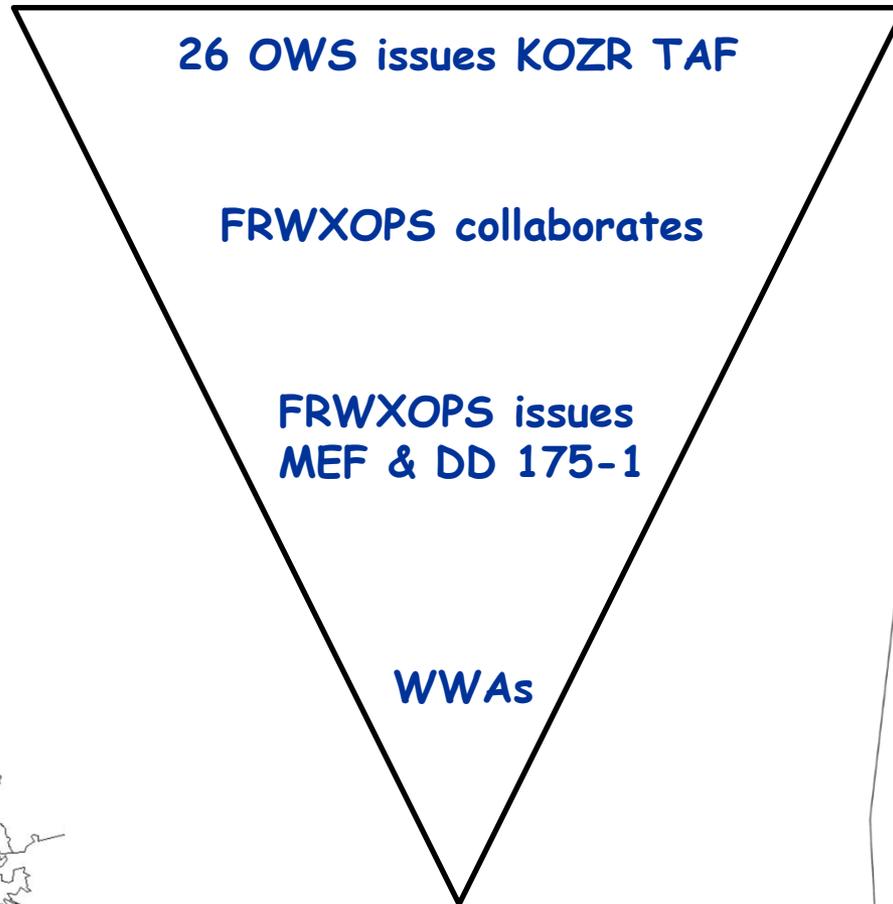
Standard AF
criteria

Standard criteria

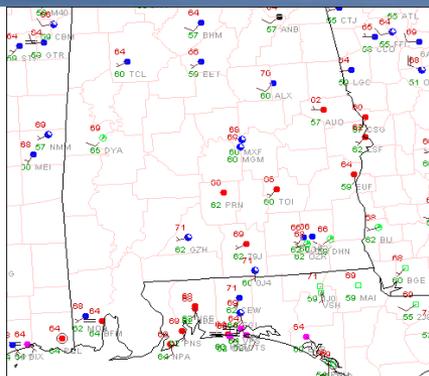
Customer/Aircraft
requirements

Be careful when shopping!

The Partnership



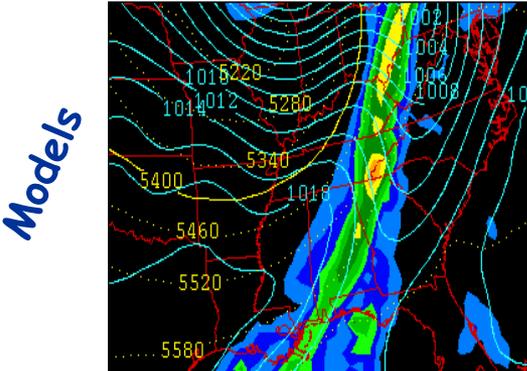
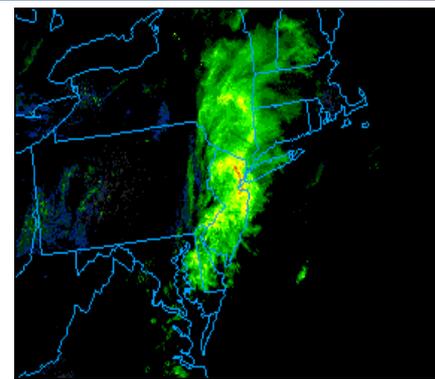
The Process



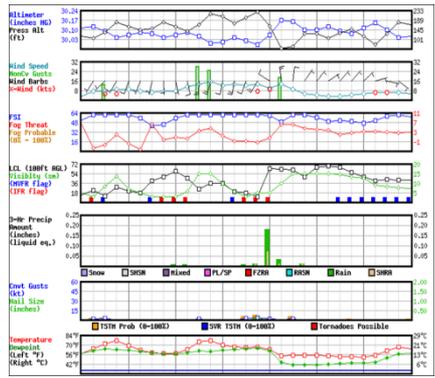
Obs

AMENDED 6TH WEATHER FLIGHT MISSION EXECUTION FORECAST							
DATE: 11 Mar 10	VALID PERIOD: AM (1200Z - 1800Z)	ISSUE TIME: 11/10:45	Briefing: DR, AB				
SOLAR & LUNAR DATA (all times are LOCAL)							
Sunrise	Sunset	EENT	Moonsrise	Moonsset	Azimuth	Elevation	% Illum
11/ 0558L	11/ 1748L	11/ 1841L	11/ 0330L	11/ 1418L	76 °	-51 °	16 %
FLIGHT LEVEL WINDS & TEMPS (All heights are MSL) MIN FZ LVL: 100							
FLT LEVEL	WIND	TEMP	FLT LEVEL	WIND	TEMP		
010	1202SKT	-13 C	050	1602SKT	-07 C		
020	1302SKT	-12 C	060	1702SKT	-07 C		
030	1502SKT	-11 C	070	1803KKT	+05 C		
040	1602SKT	-09 C	080	1803KKT	+04 C		
FLIGHT HAZARDS (All heights are MSL)							
TURBULENCE (Category I Aircraft)	NOISY						
ICING	NOISY						
THUNDERSTORMS	BOLD 317-400 SELF COAST						
LOW LEVEL WINDSHEAR	NOISY						
KOZR & AREA FORECAST DATA							
KOZR	MAX TEMP	MIN TEMP	MO'ALSTG	MAYPA	MAYDA	MVCKG	MVNTS
18C (64F)	19C (66F)	29.69	520 FT	1.220 FT	005	SSM	SHERA
AREA	MAX TEMP	MIN TEMP	MO'ALSTG	MAYPA	MAYDA	MVCKG	MVNTS
19C (66F)	15C (59F)	29.69	720 FT	1.670 FT	005	SSM	-TSRA
AREA FORECASTS (All heights are AGL) TS COVERAGE							
GOLDFISH	000000T TSM BAN05 ISOLD 850-830Z SSM -SHRA BAN005 OIC05 AFT 6Z 000000T TSM SCT05 BAN044 ISOLD 850-830Z BAN05						
VANGUARD N	000000T TSM BAN05 ISOLD 850-830Z SSM -SHRA BAN005 OIC05 AFT 6Z 000000T TSM SCT05 BAN044 ISOLD 850-830Z BAN05						
VANGUARD C	000000T TSM BAN05 ISOLD 850-830Z SSM -SHRA BAN005 OIC05 AFT 6Z 000000T TSM SCT05 BAN044 ISOLD 850-830Z BAN05						
VANGUARD S	000000T TSM BAN05 ISOLD 850-830Z SSM -SHRA BAN005 OIC05 AFT 6Z 000000T TSM SCT05 BAN044 ISOLD 850-830Z BAN05						
HAWK	000000T TSM BAN05 ISOLD 850-830Z SSM -SHRA BAN005 OIC05 AFT 6Z 000000T TSM SCT05 BAN044 ISOLD 850-830Z BAN05						
BEARCAT	000000T TSM BAN05 ISOLD 850-830Z SSM -SHRA BAN005 OIC05 AFT 6Z 000000T TSM SCT05 BAN044 ISOLD 850-830Z BAN05						
FIXED WING	000000T TSM BAN05 ISOLD 850-830Z SSM -SHRA BAN005 OIC05 AFT 6Z 000000T TSM SCT05 BAN044 ISOLD 850-830Z BAN05						
OR FLANNING ONLY** PM PLANNING DATA FORECASTS (All heights are AGL) **OR FLANNING ONLY**							
AREA FORECAST	Golofish	Vanguard N	Vanguard C	Vanguard S	Hawk	Bearcat	Fixed Wing
CONDITION	FR TL 19Z	FR TL 20Z	FR TL 19Z	FR TL 19Z	FR TL 20Z	FR TL 19Z	FR TL 19Z
FMKORZ MAXTEMP 20C							
FMKORZ MAXPA 340FT							
CONTACT 6TH WEATHER FLIGHT							
FORECASTER PHONE	PMSY			FAX			
(334) 255-8385 (DSN 558-8385)	VHF 134.1			UHF 348.8 (334) 255-8521 (DSN 558-8521)			

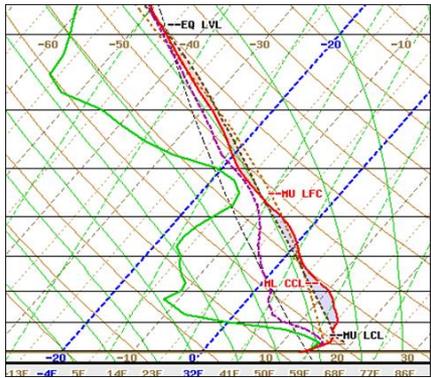
PIREPs



Models



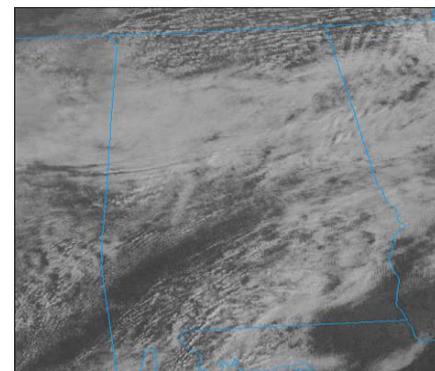
TAFs



Numerics

FOZR	FT	ROCKER	GPS LAMP GUIDANCE 2/19/2014 1600 UTC																								
UTC	17	18	19	20	21	22	23	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17		
TMP	70	72	73	74	74	75	73	69	67	65	64	63	62	61	60	59	58	58	58	58	58	58	58	58	60	61	61
DPT	62	61	60	60	59	59	59	59	59	59	59	59	58	58	58	58	58	58	58	58	58	58	58	60	61	61	61
WSR	22	22	22	22	21	20	19	18	18	18	18	18	16	15	14	13	13	13	14	15	17	17	17	17	17	17	17
WSP	07	09	09	08	07	07	06	04	04	04	04	03	04	04	04	04	04	04	05	06	08	10	12	15	17	17	17
WGS	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	21
FPD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
POD	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
PO6																											
TP2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TC2	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
FOZ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
POS	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TEP	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
CLD	BR	BR	BR	BR	BR	BR	BR	BR	BR	BR	BR	BR	BR	BR	BR	BR	BR	BR	BR	BR	BR	BR	BR	BR	BR	BR	BR
CIG	4	5	5	6	6	6	8	8	8	8	4	3	2	2	2	2	2	2	3	4	4	5	5	5	5	5	
CCO	4	4	4	5	6	6	6	6	6	6	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
VIS	7	7	7	7	7	7	7	7	7	7	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
CWS	7	7	7	7	7	7	7	7	7	7	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
CBW	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	

SIGMETs



Products

MISSION EXECUTION FORECAST										
DATE:	9-Feb-16	VALID PERIOD:	PM 1900Z-0130Z	FORECASTER INITIALS:	AB					
FLIGHT LEVEL WINDS & TEMPS (MSL)		FCST DATA:		KOZR	AREA	SOLAR/LUNAR				
FLY LEVEL	WIND	TEMP	MAX TEMP (°C)	I1	I2	BMNT	0150L			
010	29020 KT / -3 °C		MIN TEMP (°C)	5	4	SUNRISE	0650L			
020	29020 KT / 1 °C		MAX DEWPT (°C)	-5	-4	SUNSET	1752L			
030	29020 KT / -1 °C		MIN ALSTG	29 93	29 93	EENT	1818L			
040	29025 KT / -2 °C		MAX PA (FT)	260	460	MOONRISE	0700L			
050	29025 KT / -2 °C		MAX DA (FT)	330	410	MOONSET	1830L			
060	30035 KT / -9 °C		MIN CIG (FT AGL)	NONE	050	AZMUTH	278.7 °			
070	31040 KT / -9 °C		MIN VIS (SM)	7	7	ELEVATION	-271.7 °			
080	31050 KT / -9 °C		MIN WWS	NONE	NONE	% ILLUM	1 %			
FLIGHT HAZARDS W/IN 150NM (All heights are MSL)										
TURBULENCE (Cat I)		LGT	OCNL MDT	CLR/LD	FL: SFC-100	LOC:	ALL AREAS			
ICING		LGT	RIME	FL: 050-080	LOC:	ISOLD O'S 60NM				
THUNDERSTORMS		NONE								
LOW LEVEL WIND SHEAR		NO								
AREA FORECASTS (All heights are AGL)										
	AREA FORECASTS (All heights are AGL)								TS COVERAGE	
GOLDFISH	28015G25KT 75M SCT050 ISOLD 1900-2200Z; 29020G30KT AFT 2200Z; 28012G20KT 75M FEW050 SCT070								NONE	
VANGUARD N	28015G25KT 75M SCT050 ISOLD 1900-2200Z; 29020G30KT AFT 2200Z; 28012G20KT 75M FEW050 SCT070								NONE	
VANGUARD C	28015G25KT 75M SCT050 ISOLD 1900-2200Z; 29020G30KT AFT 2200Z; 28012G20KT 75M FEW050 SCT070								NONE	
VANGUARD S	28015G25KT 75M SCT050 ISOLD 1900-2200Z; 29020G30KT AFT 2200Z; 28012G20KT 75M FEW050 SCT070								NONE	
HAWK	28015G25KT 75M SCT050 ISOLD 1900-2200Z; 29020G30KT AFT 2200Z; 28012G20KT 75M FEW050 SCT070								NONE	
BEARCAT	28015G25KT 75M SCT050 ISOLD 1900-2200Z; 29020G30KT AFT 2200Z; 28012G20KT 75M FEW050 SCT070								NONE	
REMARKS:	ANTICIPATE CANX WIND WARNING AT 22Z, ICING FORECAST APPLIES TO AREAS SAME AS KAULO ON 175-1									
NI PLANNING										
FORECAST AREA	GOLDFISH	VANGUARD N	VANGUARD C	VANGUARD S	HAWK	BEARCAT				
FORECAST CATEGORY/TIMING	VFR EP	VFR EP	VFR EP	VFR EP	VFR EP	VFR EP				
KOZR MAX TEMP	6 C	KOZR MIN ALSTG	30.02	KOZR MAX PA	210 FT	TSTORMS:	NO			
CONTACT INFORMATION										
FORECASTER PHONE	PM5V	WF	SOCIAL MEDIA:	FB: @fuckerwx	TWITTER:	@fuckerwx	APP:	fuckerwx	334-255-8385 (DSN 558) 1341 (CV) 348 8 (L)	
ON THE WEB: http://www.rucker.army.mil/6weather/index.htm										
WEATHER WATCHES, WARNINGS, ADVISORIES										
TYPE	NUMBER	VALID TIME	CRITERIA				MSU	PICT	HAIR	
AWA	02-029	CURR Z TIL UN Z	NON-CONVECTIVE WIND > 20KTS OBS W/IN 60NM							
WW	02-007	1700 Z TIL 0000 Z	WIND 36-48KT FCST W/IN 15NM						30	

Mission Execution Forecast (MEF)

PM FLIGHT WEATHER BRIEFING PM									
PART I - TAKEOFF DATA (VALID 21 TIL)									
1. DATE	160209	2. RUNWAY TEMP	10	3. DEWPOINT	9	4. PRESSURE ALT	270		
5. WINDS									
6. VISIB									
7. WWS									
8. ILLUM									
9. MOON									
10. SUN									
11. SOLAR / LUNAR (21L)									
12. SPACE WEATHER									
13. OBSCURATIONS AT FLY LEVEL RESTRICTING VISIBILITY									
14. FLY LEVEL WIND/TEMP									
14.1 FLY LEVEL WIND/TEMP	14.2 WIND	14.3 TEMP	14.4 WIND	14.5 TEMP	14.6 WIND	14.7 TEMP	14.8 WIND	14.9 TEMP	14.10 WIND
010 28020KT / 5°C	050	28020KT / -9°C	FRSQ	X	020 28020KT / 1°C	080	28020KT / -9°C	FRSQ	X
030 28020KT / -1°C	070	31040KT / -1°C	FRSQ	X	040 28025KT / -3°C	080	31050KT / -9°C	FRSQ	X
15. MINIMUM CEILING ISOLD AREAS									
15.1 LOCATION	15.2 CEILING	15.3 TYPE	15.4 MINIMUM FREEZING LVL	15.5 LOCATION					
050	FT AGL	IS	050-080	015					
16. TURBULENCE									
16.1 LOCATION	16.2 INTENSITY	16.3 TYPE	16.4 MINIMUM FREEZING LVL	16.5 LOCATION					
050	FT AGL	IS	050-080	015					
17. THUNDERSTORMS									
17.1 LOCATION	17.2 INTENSITY	17.3 TYPE	17.4 MINIMUM FREEZING LVL	17.5 LOCATION					
18. PRECIPITATION									
18.1 LOCATION	18.2 INTENSITY	18.3 TYPE	18.4 MINIMUM FREEZING LVL	18.5 LOCATION					
19. Icing									
19.1 LOCATION	19.2 INTENSITY	19.3 TYPE	19.4 MINIMUM FREEZING LVL	19.5 LOCATION					
20. Low Level Wind Shear									
20.1 LOCATION	20.2 INTENSITY	20.3 TYPE	20.4 MINIMUM FREEZING LVL	20.5 LOCATION					
21. Thunderstorms									
21.1 LOCATION	21.2 INTENSITY	21.3 TYPE	21.4 MINIMUM FREEZING LVL	21.5 LOCATION					
22. Low Level Wind Shear									
22.1 LOCATION	22.2 INTENSITY	22.3 TYPE	22.4 MINIMUM FREEZING LVL	22.5 LOCATION					
23. Thunderstorms									
23.1 LOCATION	23.2 INTENSITY	23.3 TYPE	23.4 MINIMUM FREEZING LVL	23.5 LOCATION					
24. Low Level Wind Shear									
24.1 LOCATION	24.2 INTENSITY	24.3 TYPE	24.4 MINIMUM FREEZING LVL	24.5 LOCATION					
25. Thunderstorms									
25.1 LOCATION	25.2 INTENSITY	25.3 TYPE	25.4 MINIMUM FREEZING LVL	25.5 LOCATION					
26. Low Level Wind Shear									
26.1 LOCATION	26.2 INTENSITY	26.3 TYPE	26.4 MINIMUM FREEZING LVL	26.5 LOCATION					
27. Thunderstorms									
27.1 LOCATION	27.2 INTENSITY	27.3 TYPE	27.4 MINIMUM FREEZING LVL	27.5 LOCATION					
28. Low Level Wind Shear									
28.1 LOCATION	28.2 INTENSITY	28.3 TYPE	28.4 MINIMUM FREEZING LVL	28.5 LOCATION					
29. Thunderstorms									
29.1 LOCATION	29.2 INTENSITY	29.3 TYPE	29.4 MINIMUM FREEZING LVL	29.5 LOCATION					
30. Low Level Wind Shear									
30.1 LOCATION	30.2 INTENSITY	30.3 TYPE	30.4 MINIMUM FREEZING LVL	30.5 LOCATION					
31. Thunderstorms									
31.1 LOCATION	31.2 INTENSITY	31.3 TYPE	31.4 MINIMUM FREEZING LVL	31.5 LOCATION					
32. Low Level Wind Shear									
32.1 LOCATION	32.2 INTENSITY	32.3 TYPE	32.4 MINIMUM FREEZING LVL	32.5 LOCATION					
33. Thunderstorms									
33.1 LOCATION	33.2 INTENSITY	33.3 TYPE	33.4 MINIMUM FREEZING LVL	33.5 LOCATION					
34. Low Level Wind Shear									
34.1 LOCATION	34.2 INTENSITY	34.3 TYPE	34.4 MINIMUM FREEZING LVL	34.5 LOCATION					
35. Thunderstorms									
35.1 LOCATION	35.2 INTENSITY	35.3 TYPE	35.4 MINIMUM FREEZING LVL	35.5 LOCATION					
36. Low Level Wind Shear									
36.1 LOCATION	36.2 INTENSITY	36.3 TYPE	36.4 MINIMUM FREEZING LVL	36.5 LOCATION					
37. Thunderstorms									
37.1 LOCATION	37.2 INTENSITY	37.3 TYPE	37.4 MINIMUM FREEZING LVL	37.5 LOCATION					
38. Low Level Wind Shear									
38.1 LOCATION	38.2 INTENSITY	38.3 TYPE	38.4 MINIMUM FREEZING LVL	38.5 LOCATION					
39. Thunderstorms									
39.1 LOCATION	39.2 INTENSITY	39.3 TYPE	39.4 MINIMUM FREEZING LVL	39.5 LOCATION					
40. Low Level Wind Shear									
40.1 LOCATION	40.2 INTENSITY	40.3 TYPE	40.4 MINIMUM FREEZING LVL	40.5 LOCATION					
41. Thunderstorms									
41.1 LOCATION	41.2 INTENSITY	41.3 TYPE	41.4 MINIMUM FREEZING LVL	41.5 LOCATION					
42. Low Level Wind Shear									
42.1 LOCATION	42.2 INTENSITY	42.3 TYPE	42.4 MINIMUM FREEZING LVL	42.5 LOCATION					
43. Thunderstorms									
43.1 LOCATION	43.2 INTENSITY	43.3 TYPE	43.4 MINIMUM FREEZING LVL	43.5 LOCATION					
44. Low Level Wind Shear									
44.1 LOCATION	44.2 INTENSITY	44.3 TYPE	44.4 MINIMUM FREEZING LVL	44.5 LOCATION					
45. Thunderstorms									
45.1 LOCATION	45.2 INTENSITY	45.3 TYPE	45.4 MINIMUM FREEZING LVL	45.5 LOCATION					
46. Low Level Wind Shear									
46.1 LOCATION	46.2 INTENSITY	46.3 TYPE	46.4 MINIMUM FREEZING LVL	46.5 LOCATION					
47. Thunderstorms									
47.1 LOCATION	47.2 INTENSITY	47.3 TYPE	47.4 MINIMUM FREEZING LVL	47.5 LOCATION					
48. Low Level Wind Shear									
48.1 LOCATION	48.2 INTENSITY	48.3 TYPE	48.4 MINIMUM FREEZING LVL	48.5 LOCATION					
49. Thunderstorms									
49.1 LOCATION	49.2 INTENSITY	49.3 TYPE	49.4 MINIMUM FREEZING LVL	49.5 LOCATION					
50. Low Level Wind Shear									
50.1 LOCATION	50.2 INTENSITY	50.3 TYPE	50.4 MINIMUM FREEZING LVL	50.5 LOCATION					
51. Thunderstorms									
51.1 LOCATION	51.2 INTENSITY	51.3 TYPE	51.4 MINIMUM FREEZING LVL	51.5 LOCATION					
52. Low Level Wind Shear									
52.1 LOCATION	52.2 INTENSITY	52.3 TYPE	52.4 MINIMUM FREEZING LVL	52.5 LOCATION					
53. Thunderstorms									
53.1 LOCATION	53.2 INTENSITY	53.3 TYPE	53.4 MINIMUM FREEZING LVL	53.5 LOCATION					
54. Low Level Wind Shear									
54.1 LOCATION	54.2 INTENSITY	54.3 TYPE	54.4 MINIMUM FREEZING LVL	54.5 LOCATION					
55. Thunderstorms									
55.1 LOCATION	55.2 INTENSITY	55.3 TYPE	55.4 MINIMUM FREEZING LVL	55.5 LOCATION					
56. Low Level Wind Shear									
56.1 LOCATION	56.2 INTENSITY	56.3 TYPE	56.4 MINIMUM FREEZING LVL	56.5 LOCATION					
57. Thunderstorms									
57.1 LOCATION	57.2 INTENSITY	57.3 TYPE	57.4 MINIMUM FREEZING LVL	57.5 LOCATION					
58. Low Level Wind Shear									
58.1 LOCATION	58.2 INTENSITY	58.3 TYPE	58.4 MINIMUM FREEZING LVL	58.5 LOCATION					
59. Thunderstorms									
59.1 LOCATION	59.2 INTENSITY	59.3 TYPE	59.4 MINIMUM FREEZING LVL	59.5 LOCATION					
60. Low Level Wind Shear									
60.1 LOCATION	60.2 INTENSITY	60.3 TYPE	60.4 MINIMUM FREEZING LVL	60.5 LOCATION					
61. Thunderstorms									
61.1 LOCATION	61.2 INTENSITY	61.3 TYPE	61.4 MINIMUM FREEZING LVL	61.5 LOCATION					
62. Low Level Wind Shear									
62.1 LOCATION	62.2 INTENSITY	62.3 TYPE	62.4 MINIMUM FREEZING LVL	62.5 LOCATION					
63. Thunderstorms									
63.1 LOCATION	63.2 INTENSITY	63.3 TYPE	63.4 MINIMUM FREEZING LVL	63.5 LOCATION					
64. Low Level Wind Shear									
64.1 LOCATION	64.2 INTENSITY	64.3 TYPE	64.4 MINIMUM FREEZING LVL	64.5 LOCATION					
65. Thunderstorms									
65.1 LOCATION	65.2 INTENSITY	65.3 TYPE	65.4 MINIMUM FREEZING LVL	65.5 LOCATION					
66. Low Level Wind Shear									
66.1 LOCATION	66.2 INTENSITY	66.3 TYPE	66.4 MINIMUM FREEZING LVL	66.5 LOCATION					
67. Thunderstorms									
67.1 LOCATION	67.2 INTENSITY	67.3 TYPE	67.4 MINIMUM FREEZING LVL	67.5 LOCATION					
68. Low Level Wind Shear									
68.1 LOCATION	68.2 INTENSITY	68.3 TYPE	68.4 MINIMUM FREEZING LVL	68.5 LOCATION					
69. Thunderstorms									
69.1 LOCATION	69.2 INTENSITY	69.3 TYPE	69.4 MINIMUM FREEZING LVL	69.5 LOCATION					
70. Low Level Wind Shear									
70.1 LOCATION	70.2 INTENSITY	70.3 TYPE	70.4 MINIMUM FREEZING LVL	70.5 LOCATION					
71. Thunderstorms									
71.1 LOCATION	71.2 INTENSITY	71.3 TYPE	71.4 MINIMUM FREEZING LVL	71.5 LOCATION					
72. Low Level Wind Shear									
72.1 LOCATION	72.2 INTENSITY	72.3 TYPE	72.4 MINIMUM FREEZING LVL	72.5 LOCATION					
73. Thunderstorms									
73.1 LOCATION	73.2 INTENSITY	73.3 TYPE	73.4 MINIMUM FREEZING LVL	73.5 LOCATION					
74. Low Level Wind Shear									
74.1 LOCATION	74.2 INTENSITY	74.3 TYPE	74.4 MINIMUM FREEZING LVL	74.5 LOCATION					
75. Thunderstorms									
75.1 LOCATION	75.2 INTENSITY	75.3 TYPE	75.4 MINIMUM FREEZING LVL	75.5 LOCATION					
76. Low Level Wind Shear									
76.1 LOCATION	76.2 INTENSITY	76.3 TYPE	76.4 MINIMUM FREEZING LVL	76.5 LOCATION					
77. Thunderstorms									
77.1 LOCATION	77.2 INTENSITY	77.3 TYPE	77.4 MINIMUM FREEZING LVL	77.5 LOCATION					
78. Low Level Wind Shear									
78.1 LOCATION	78.2 INTENSITY	78.3 TYPE	78.4 MINIMUM FREEZING LVL	78.5 LOCATION					
79. Thunderstorms									
79.1 LOCATION	79.2 INTENSITY	79.3 TYPE	79.4 MINIMUM FREEZING LVL	79.5 LOCATION					
80. Low Level Wind Shear									
80.1 LOCATION	80.2 INTENSITY	80.3 TYPE	80.4 MINIMUM FREEZING LVL	80.5 LOCATION					
81. Thunderstorms									
81.1 LOCATION	81.2 INTENSITY	81.3 TYPE	81.4 MINIMUM FREEZING LVL	81.5 LOCATION					
82. Low Level Wind Shear									
82.1 LOCATION	82.2 INTENSITY	82.3 TYPE	82.4 MINIMUM FREEZING LVL	82.5 LOCATION					
83. Thunderstorms									
83.1 LOCATION	83.2 INTENSITY	83.3 TYPE	83.4 MINIMUM FREEZING LVL	83.5 LOCATION					
84. Low Level Wind Shear									
84.1 LOCATION	84.2 INTENSITY	84.3 TYPE	84.4 MINIMUM FREEZING L						

Products

AM	PM	N1
Issued: 0500L (CDT) Issued: 0445L (CST)	Issued: 1045L (CDT) Issued: 1015L (CST)	Issued: 1715L (CDT) Issued: 1630L (CST)
Valid: 0630-1300L	Valid: 1300-1930L	Valid: 1930-0230L
MEF	MEF	MEF
DD 175-1	DD 175-1	DD 175-1
Continuation Sheet	Continuation Sheet	***
Planning Data	Planning Data	Planning Data

Products

→ Dissemination

→ Web page

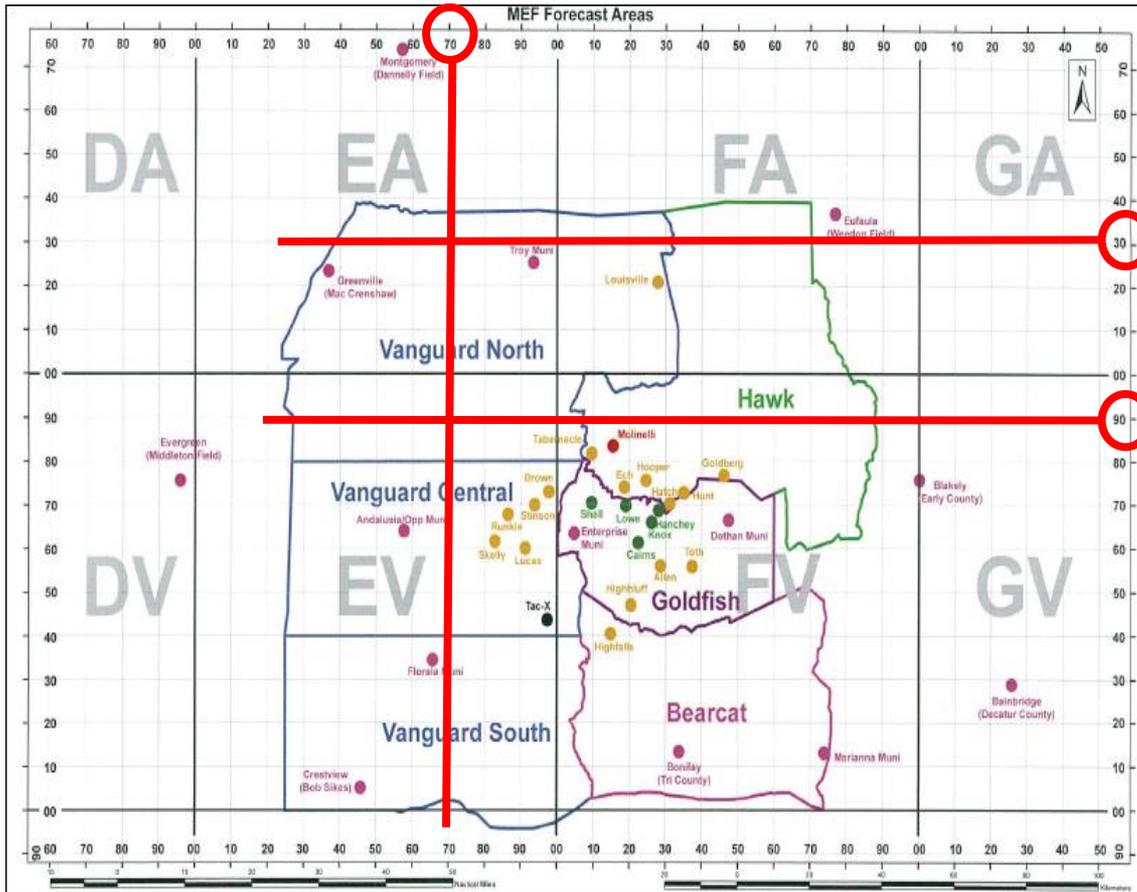
→ Post to Facebook

→ Email to Ops Section

→ Outside 100NM for N1, request DD 175-1

→ At least 2 hours in advance of desired brief time

Products



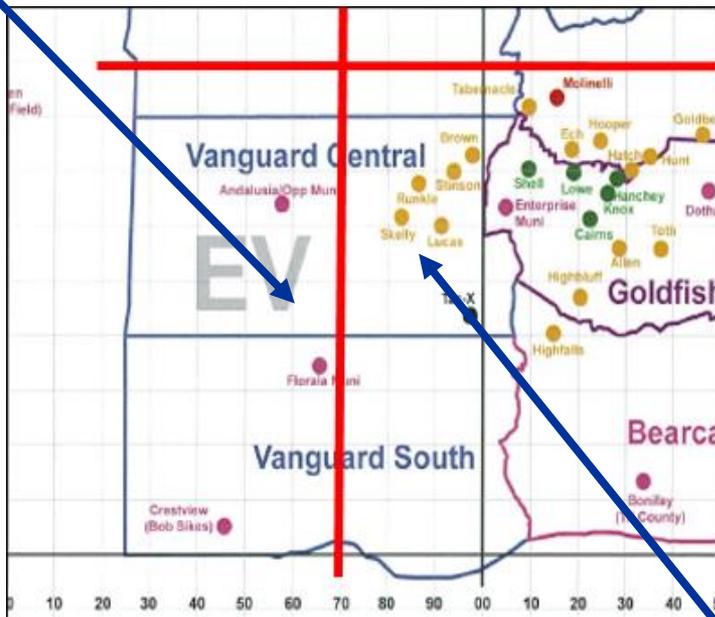
- Grid lines on MEF
- More flexibility in forecast areas
- Maximize training time

Products

WEST OF GRID LINE 70: 12003KT 1/2SM FG OVC 002

AFT 1430Z: 12003KT 3SM BR BKN005

AFT 1600Z: 12005KT 7SM FEW008 BKN020



EAST OF GRID LINE 70: 12003KT 7SM SCT010 BKN050

Products

→ VCTS

- Better articulate probability and confidence
- Reduce/limit TEMPO lines to higher storm threats
- Does NOT mean predominant thunderstorms

Coding	TS Probability	Coverage
No thunderstorms	Unlikely (10% or less)	None
VCTS	Low Probability (10-30%)	ISOLD
TEMPO	Moderate-High Probability (>30%) Timing confidence low	FEW or greater
Predominant	High Probability (> 50%)	FEW or greater

Products

Valid	0 hr Fri 06/06Z	3 hr Fri 06/09Z	6 hr Fri 06/12Z	9 hr Fri 06/15Z	12 hr Fri 06/18Z	15 hr Fri 06/21Z	18 hr Sat 07/00Z	21 hr Sat 07/03Z	24 hr Sat 07/06Z	27 hr Sat 07/09Z	30 hr Sat 07/12Z	33 hr Sat 07/15Z	36 hr Sat 07/18Z	39 hr Sat 07/21Z	42 hr Sun 08/00Z	45 hr Sun 08/03Z	48 hr Sun 08/06Z
Temp:	73°F	71°F	70°F	74°F	79°F	80°F	75°F	73°F	71°F	71°F	70°F	73°F	79°F	79°F	75°F	71°F	69°F
DP Temp:	72°F	71°F	70°F	72°F	73°F	73°F	74°F	72°F	71°F	70°F	70°F	71°F	71°F	70°F	72°F	68°F	67°F
Humidity:	97%	97%	98%	92%	81%	80%	94%	97%	99%	99%	98%	93%	76%	73%	91%	88%	93%
Wind Chill:																	
Heat Index:	74°F	73°F	72°F	76°F	83°F	84°F	77°F	74°F	73°F	72°F	72°F	75°F	82°F	82°F	76°F	73°F	70°F
FITS:																	
Gen Wx:	 Partly Cloudy	 Mostly Cloudy	 Mostly Cloudy	 Mostly Cloudy	 Partly Cloudy	 Mostly Cloudy	 Partly Cloudy	 Partly Cloudy	 Mostly Cloudy	 Cloudy	 Mostly Cloudy	 Mostly Cloudy	 Cloudy	 Cloudy	 Cloudy	 Mostly Cloudy	 Mostly Cloudy
Cloud Coverage:	4	6	6	7	3	5	3	4	6	8	6	6	8	8	8	5	5
Lowest Ceiling:		057	057	058		048			405	024	379	404	245	216	032	032	032
Wind (kts):	130/04	130/04	120/03	150/06	170/06	170/05	200/03	200/02	170/02	130/02	110/03	150/05	180/04	260/02	010/05	040/08	050/07
Cross Wind (kts):																	
1000ft MSL Winds:	160/20	170/18	190/16	190/17	180/10	170/10	190/10	180/07	170/10	160/14	160/12	160/12	180/06	250/03	020/12	050/25	070/23
2000ft MSL Winds:	160/22	180/19	210/14	200/13	190/11	180/10	180/10	160/08	150/12	160/14	170/10	170/10	190/08	250/03	030/09	050/20	070/16
3000ft MSL Winds:	180/24	200/20	220/14	210/11	200/10	180/10	180/10	150/09	160/12	170/12	180/09	180/10	200/09	240/05	030/06	060/14	070/11
4000ft MSL Winds:	180/23	210/19	230/14	220/08	200/08	190/09	180/08	160/08	170/11	170/10	180/09	190/10	210/10	240/07	020/03	060/08	060/08
5000ft MSL Winds:	190/21	210/16	240/13	230/07	210/07	190/07	180/06	170/08	180/09	180/07	170/09	190/11	210/11	240/09	210/02	070/04	050/05
6000ft MSL Winds:	200/21	210/15	240/11	240/07	220/06	200/06	180/06	170/08	180/07	180/06	170/08	190/10	210/12	240/10	250/03	140/02	160/04
Visibility (sm):	6	5	5	8	10	12	9	5	4	3	3	9	12	18	8	10	8
Precip:																	
3 Hr Precip (in):					0.02	0.01									0.02	0.08	0.05
Prob of Precip:																	
Prob of TSTM:					11%	11%											
Prob of Snow:																	
Prob of Frz Precip:																	
Prob of Fog:										1%	1%	1%					
ALSTG (in hg):	30.12	30.11	30.16	30.18	30.13	30.07	30.10	30.11	30.09	30.06	30.07	30.09	30.04	30.00	30.04	30.06	30.05
Press Alt (ft):	103	115	72	50	100	156	127	113	136	166	152	133	179	218	185	160	175
Density Alt (ft):	1361	1280	1153	1398	1786	1885	1570	1373	1306	1291	1243	1436	1838	1900	1611	1311	1149
Max Turb Blo 10K:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Max Icg Blo 10K:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Trop Hgt (ft):	54474	54453	54464	54502	54476	54448	54465	54463	54412	54366	54366	54410	54369	54349	54385	54392	54354
Freezing Lvl (ft AGL):	15713	15914	15768	15496	15684	15579	15448	15560	15561	15245	15126	15040	14720	13900	13434	13502	13113

48-Hour Planner

Products

7-DAY OUTLOOK: 29 Aug-04 Sep 2016

	M			T			W			T			F	S	S
	AM	PM	N1												
Ceiling															
Visibility															
Surface Wind															
Turbulence															
Icing															
Thunderstorms															
High Temp	33			33			33			34			34	33	33
Low Temp	23			23			23			23			22	21	21

GO	NO GO
≥ 1000 ft	< 1000 ft
≥ 3 SM	< 3 SM
< 20 kts	≥ 20 kts
LGT or less	MDT or greater
None	Any type
ISOLD	MDT or SVR

Prepared by: Cindy L Howell

The dry weather will continue until mid-week, at which point we will usher in the seasonal risk of afternoon showers and thunderstorms. By late Wednesday into Thursday, we could be feeling fringe effects of Tropical Depression 9. On the current track, our impacts will be minimal, but we could see a little rain and breezy conditions from time to time. IFR may roll in by Thursday's AM period.

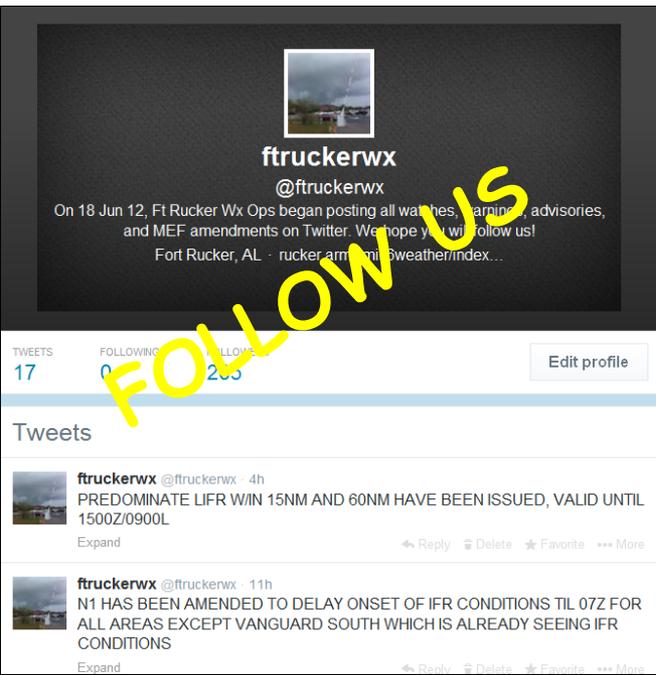
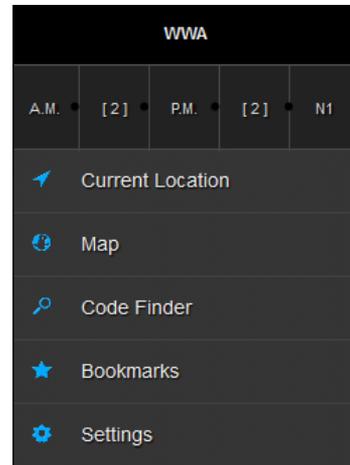
Note: This product is posted on Mondays, Wednesdays and Fridays NLT 1000L and is for non-operational, planning purposes only.

Services

GRAB OUR APP



AM MEF AMENDED TO KEEP GOLDFISH IFR UNTIL 17Z AND IMPROVE NORTH AREAS TO VFR REMAINDER OF AM PERIOD.



Services

Grab our App

☰

Home

LTG POTENTIAL WIN 15NM. CHECK MEF FOR DETAILS.

Weather - Ft. Rucker, AL

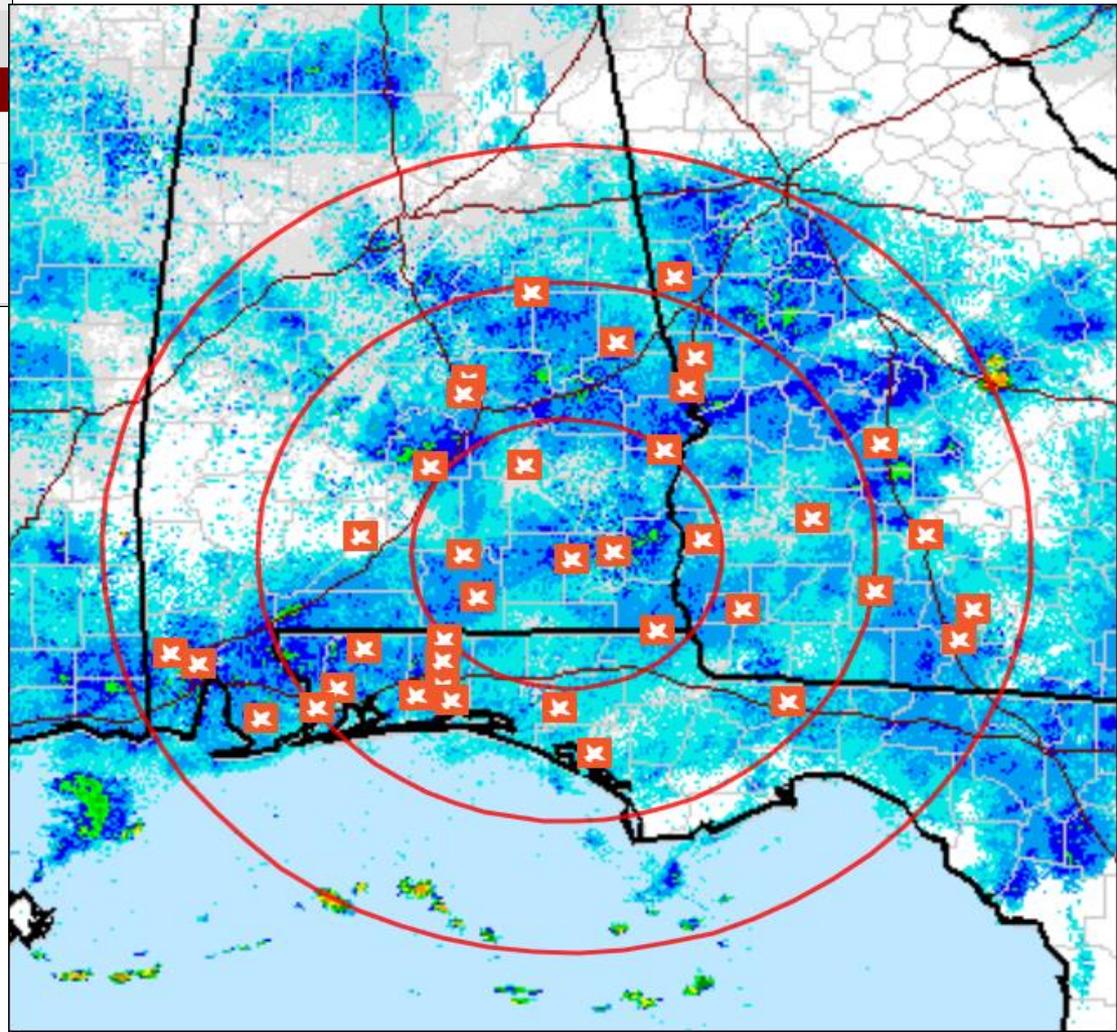
Tue	Wed	Thu	Fri
☀️ 95° Chance of Storm	☀️ 97° Chance of Storm	☀️ 97° Chance of Storm	☀️ 95° Chance of Storm

WWA

A.M. [2] P.M. [2] N1

- 📍 Current Location
- 🌐 Map
- 🔍 Code Finder
- ★ Bookmarks
- ⚙️ Settings

search... 🔍



Services

→ JET Email Alert

→ JET sends email when issuing/cancelling WWA

→ JET Text Alert

→ JET sends email-to-text to mobile device when issuing/cancelling WWA

→ Some carriers limit characters so WWA cuts off

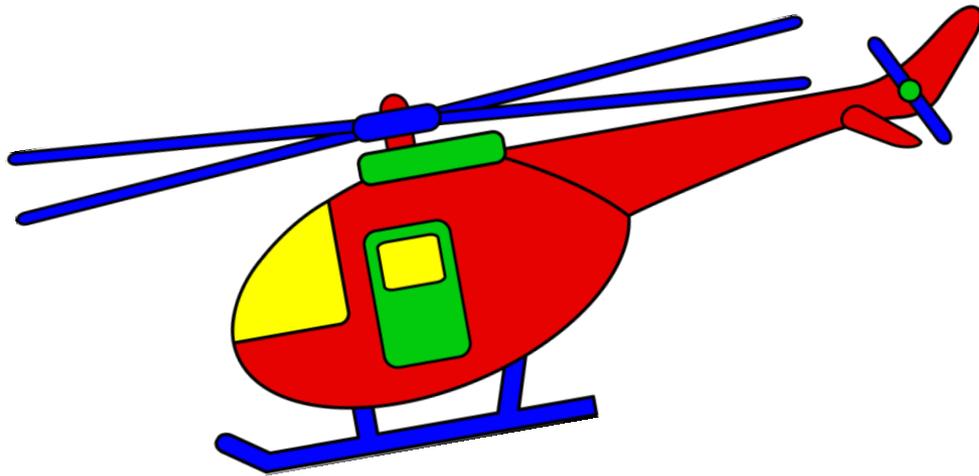
Services

- Wx Information Frequency (348.8)
 - MEF Amendments
 - Void Times

- PMSV @ Lowe AHP (243.35)

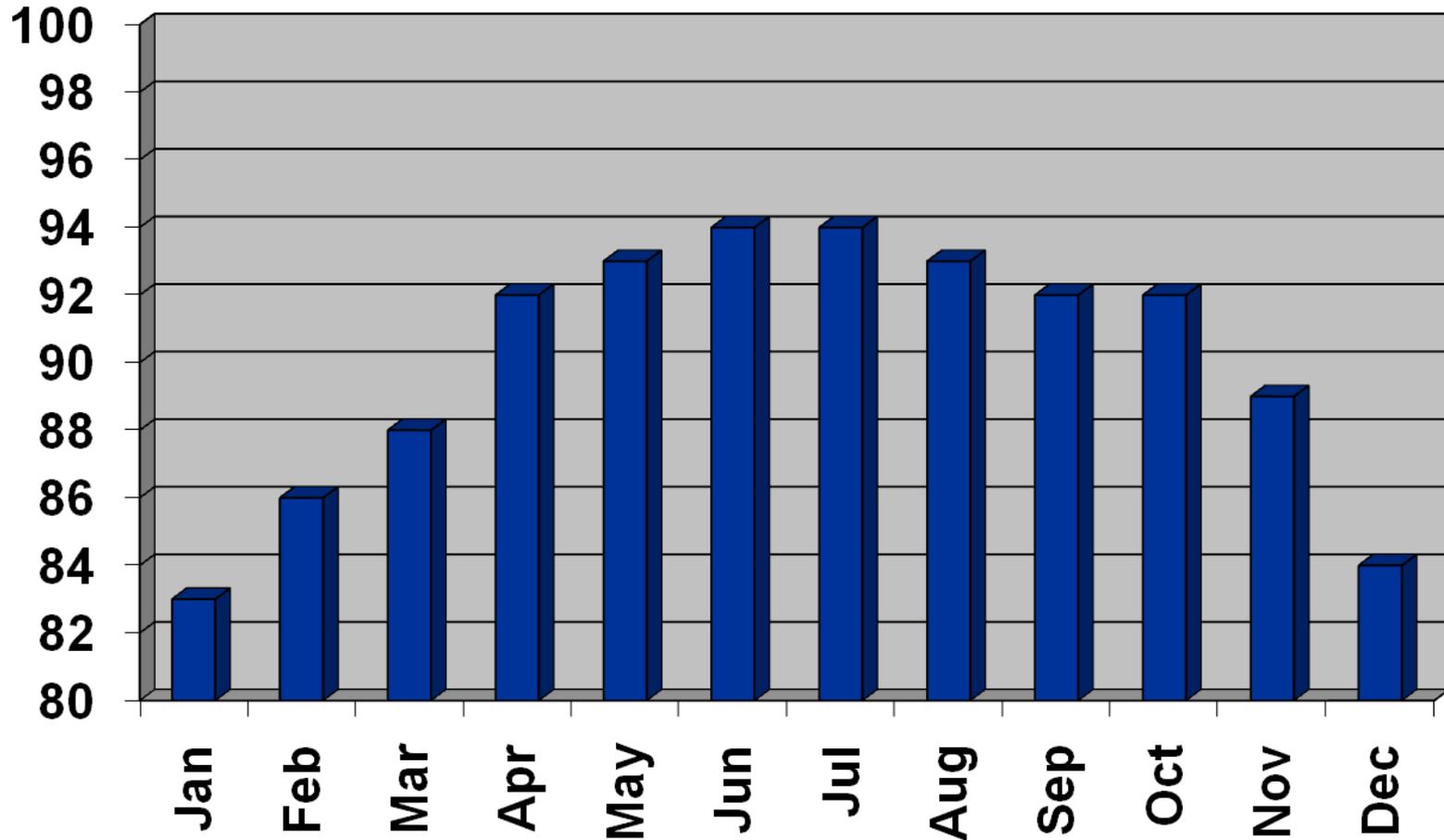
- Lightning for Base Fields & Molinelli
 - Observed LTG w/in 10NM advisory
 - Observed LTG w/in 5NM warning
 - Towers & Refuel receive robo-call

PIREPs

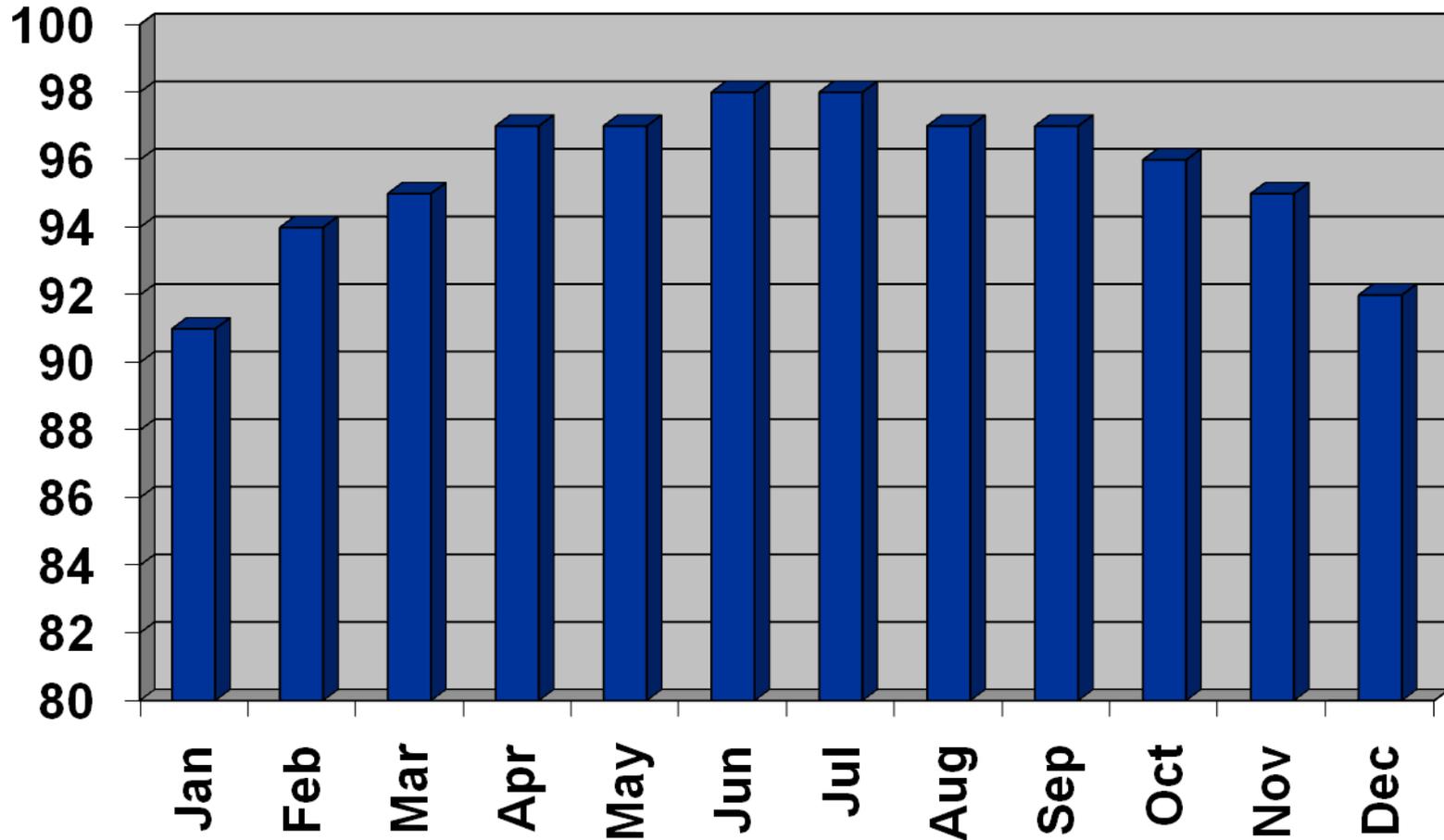


- Large LFA/few obs
- Critical during wx
- May be used to amend the MEF/-1
- PMSV Freq: 134.1

Percent $\geq 1000/3$



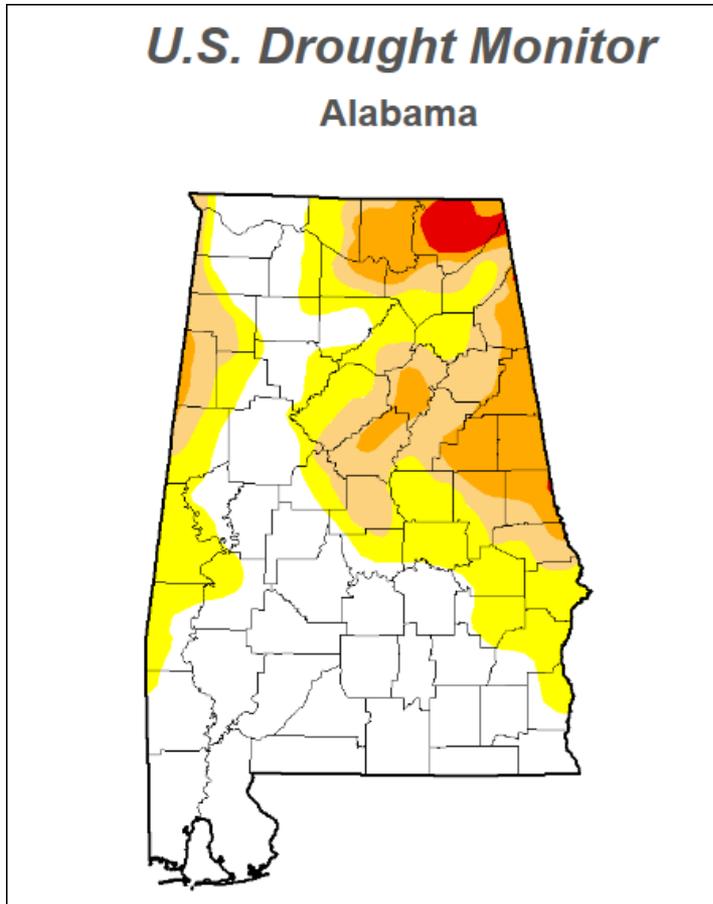
Percent $\geq 500/1$



Climatology

	Tmax	Tmin	Tmean	Dir	Speed	Precip
JAN	59	39	49	N	5	4.79
FEB	63	42	52	N	5	5.07
MAR	70	48	59	NW	5	5.62
APR	78	55	66	NW	4	4.17
MAY	84	63	74	NE-E	4	3.69
JUN	89	70	79	S-SW	4	4.85
JUL	90	72	81	SW	4	5.19
AUG	90	72	81	NE-E	3	4.43
SEP	86	68	77	NE-E	3	3.97
OCT	78	56	67	NE-E	4	3.37
NOV	69	47	58	N	4	3.50
DEC	62	41	51	N	5	4.25

Drought Monitor



23 Aug 16

KOZR YTD:
44.93"

KLOR YTD:
36.48"

KHEY YTD:
39.18"

YTD AVG (thru 31 Aug):
37.81"

Intensity:

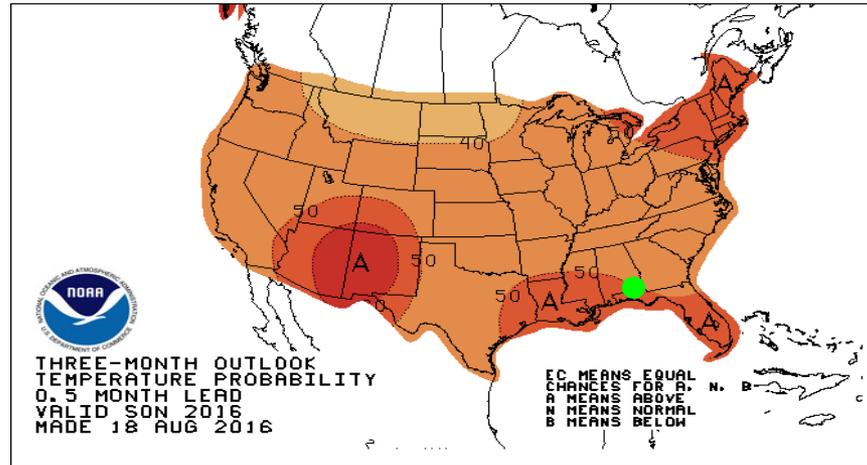
 D0 - Abnormally Dry
 D1 - Moderate Drought
 D2 - Severe Drought

 D3 - Extreme Drought
 D4 - Exceptional Drought

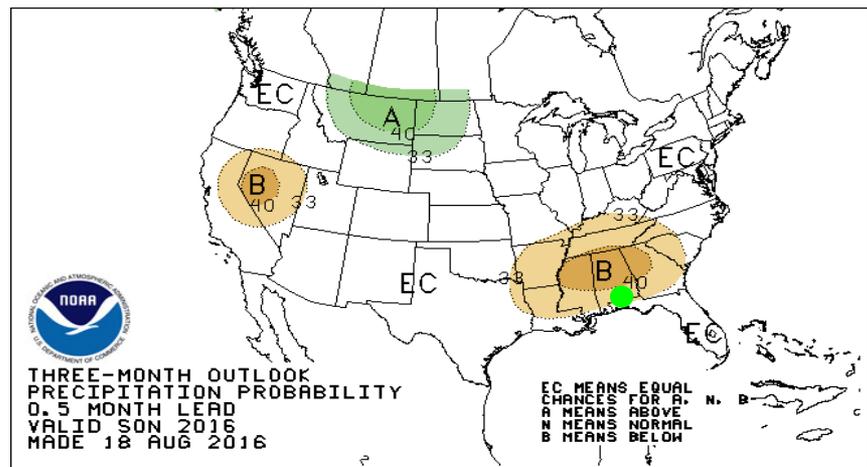
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying [text summary](#) for forecast statements.

Seasonal Outlook: S-O-N

50% chance of
above average
temps



33% chance of
above average
precip



Seasonal Weather Hazards

→ Fall-Winter

→ Turbulence / Low Level Wind Shear (LLWS)

→ Icing

→ Thunderstorms

→ Tornadoes

→ Hurricanes

FLIGHT HAZARDS W/IN 150NM (All heights are MSL)

TURBULENCE (Cat I)	NONE
ICING	NONE
THUNDERSTORMS	AREA ISOLATED MT: 450 LOC: SE AREA
LOW LEVEL WIND SHEAR	NO

Turbulence & LLWS

→ Turbulence

- Wind speed/direction gradients associated with jet stream
- **NOT** associated with thunderstorms

→ LLWS

- A drastic change in wind speed and/or direction in the lower 2000 feet of the atmosphere
- **NOT** associated with thunderstorms

Icing

- Icing
 - Increases the weight of the aircraft
 - Decreases lift
 - **NOT** associated with thunderstorms
 - Icing forecast is for **150NM**
 - MEF/-1 forecasts **STRUCTURAL** icing only

Icing

Visible Moisture + Temps $\leq 0^{\circ}\text{C}$ = Structural Icing

Visible Moisture + Temps $\leq 4^{\circ}\text{C}$ = Non-Structural Icing

14. FLT LEVEL/WIND/TEMP					
010	12015KT	/	4 °C	050	18025KT / -3 °C
020	12015KT	/	4 °C	060	18025KT / -5 °C
030	15015KT	/	2 °C	070	22035KT / -8 °C
040	15020KT	/	0 °C	080	22040KT / -12 °C

DEST / ALTH KOZR	Z TO 1130	Z 1500	12010	7	BKN025	29.95	IMS
DEST / ALTH FROM	Z TO 1500	Z 1630	06012	7	BKN040 BKN250	29.96	IMS
DEST / ALTH FROM	Z TO 1630	Z 1800	3300G15	7	FEW250	29.98	IMS

MEF/-1 forecasts STRUCTURAL ICING ONLY

Icing

→ Challenges

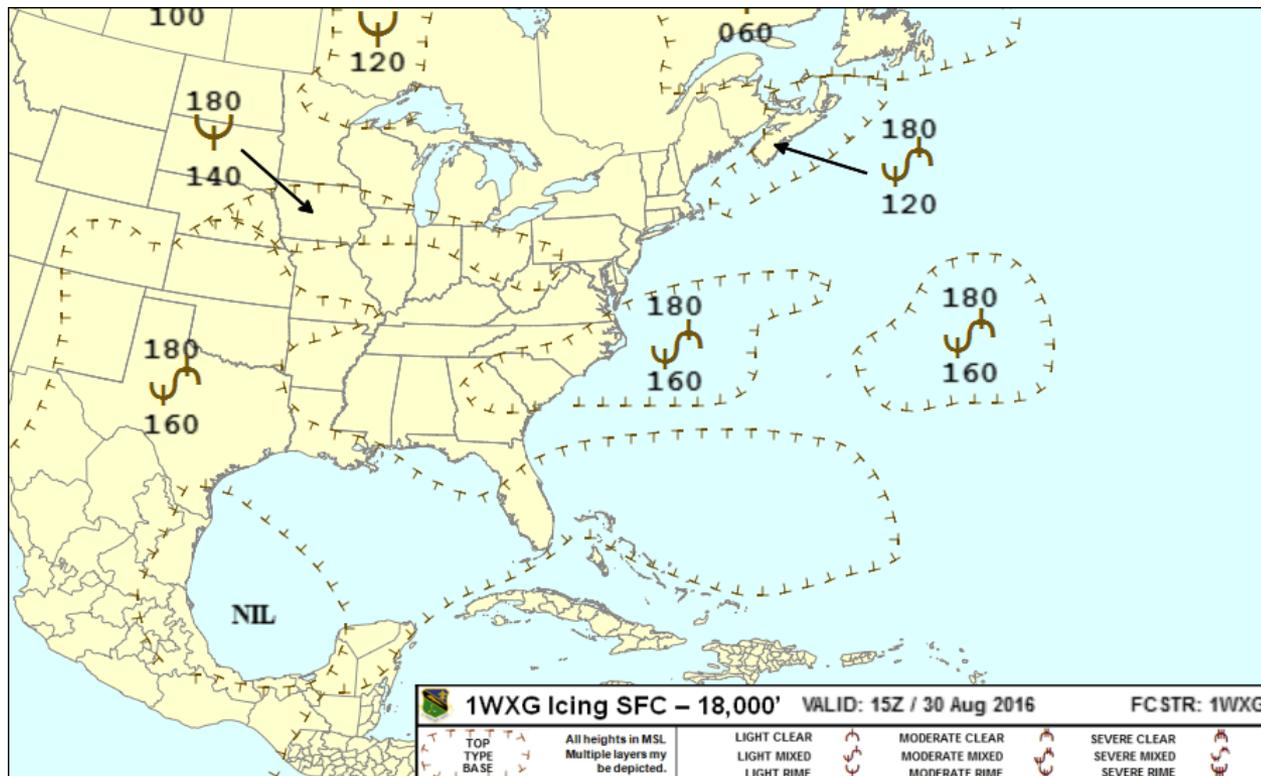
- Space average (150NM)
- Time average (6-7 hours)
- Availability of data
 - Observed data from 00Z
 - Forecast data from 06Z
- Lack of PIREPs
- Cold fronts bisecting the LFA
- Read Remarks

REMARKS:

LGT RIME ICING FL 020-030 N OF KTOI TIL 15Z. AFT 15Z, LGT RIME ICING FL 020-030 ALL AREAS.

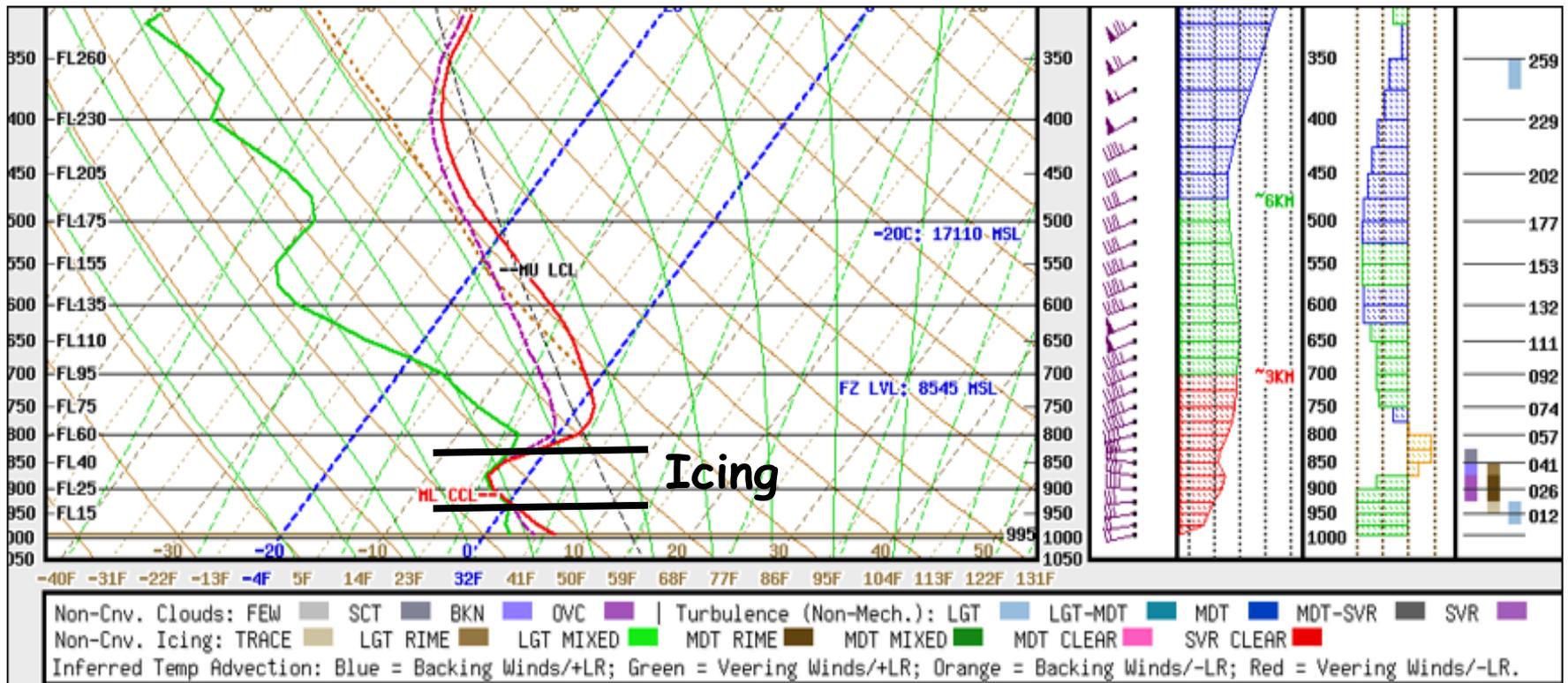
Icing

- OWS Hazard Charts
- Issued every 6 hours
- 3 hour increments



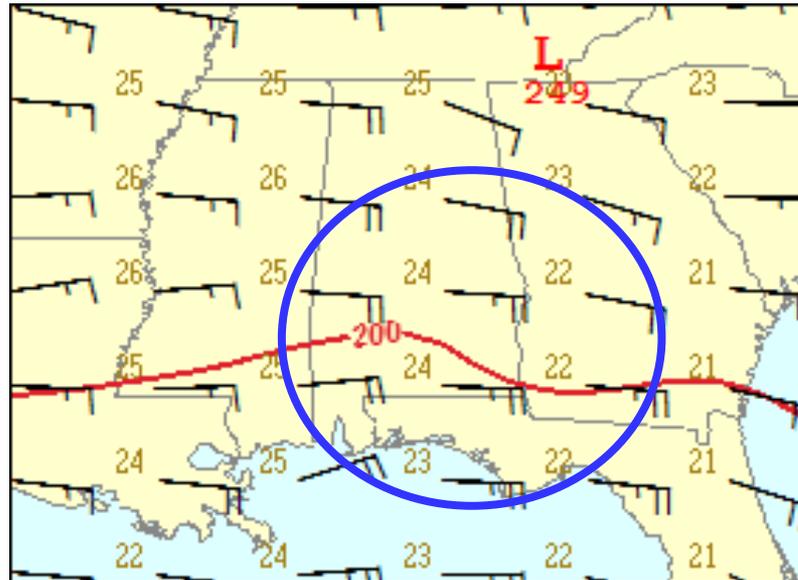
Icing

- Observed Skew-T
 - KTLH, KBHM, KLIX, KJAN at 00Z and 12Z
- Forecast Skew-T
 - Numerous locations in LFA every 6 hours



Icing

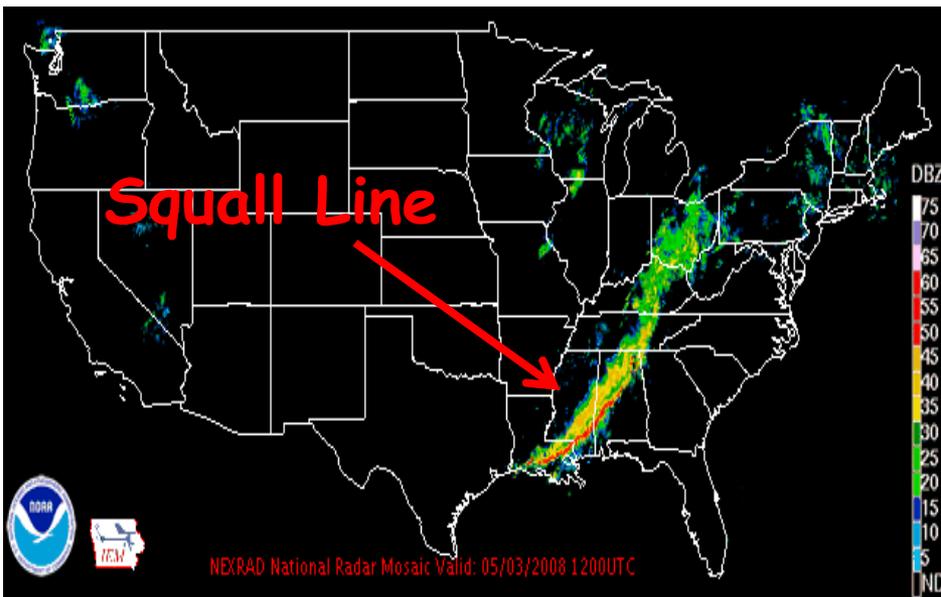
- FL Winds/Temps
 - Based on model data every 6 hours
 - 3 different models
 - Midpoint of period
 - Read Remarks



Thunderstorms

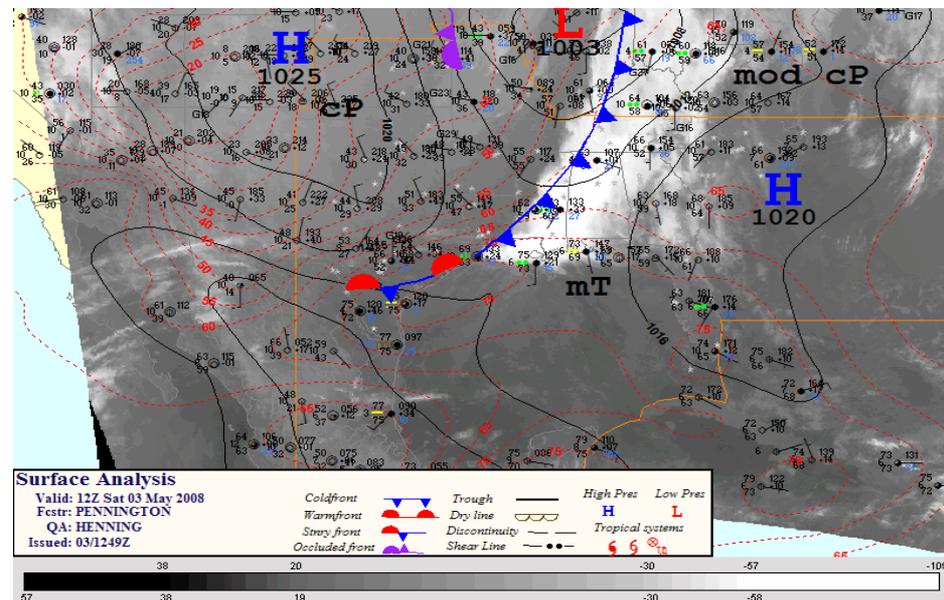
- Within 20NM of thunderstorms, expect:
 - Lightning
 - Hail
 - Heavy precipitation
 - LLWS
 - Microburst
 - Severe icing
 - Severe turbulence

Thunderstorms



Cold fronts / Pre-frontal squall lines

Often turn severe



Tornadoes



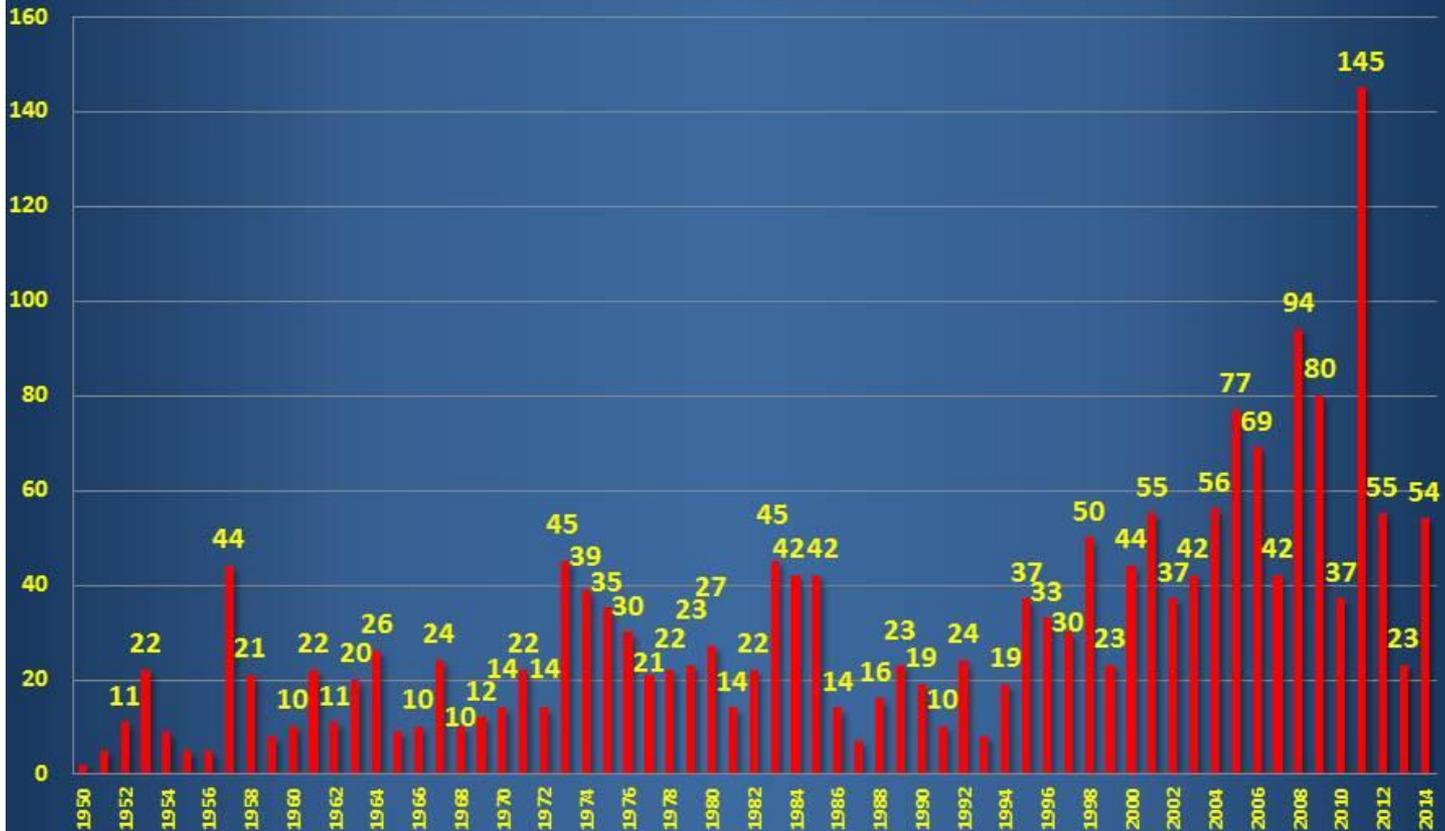
- Two peaks
 - March - May
 - November
- Peak hours
 - 1200L - 1800L

AL Tornadoes By Year



Birmingham
Alabama

Alabama Tornadoes By Year 1950-2014



Source BMX & SPC

NWSBirmingham

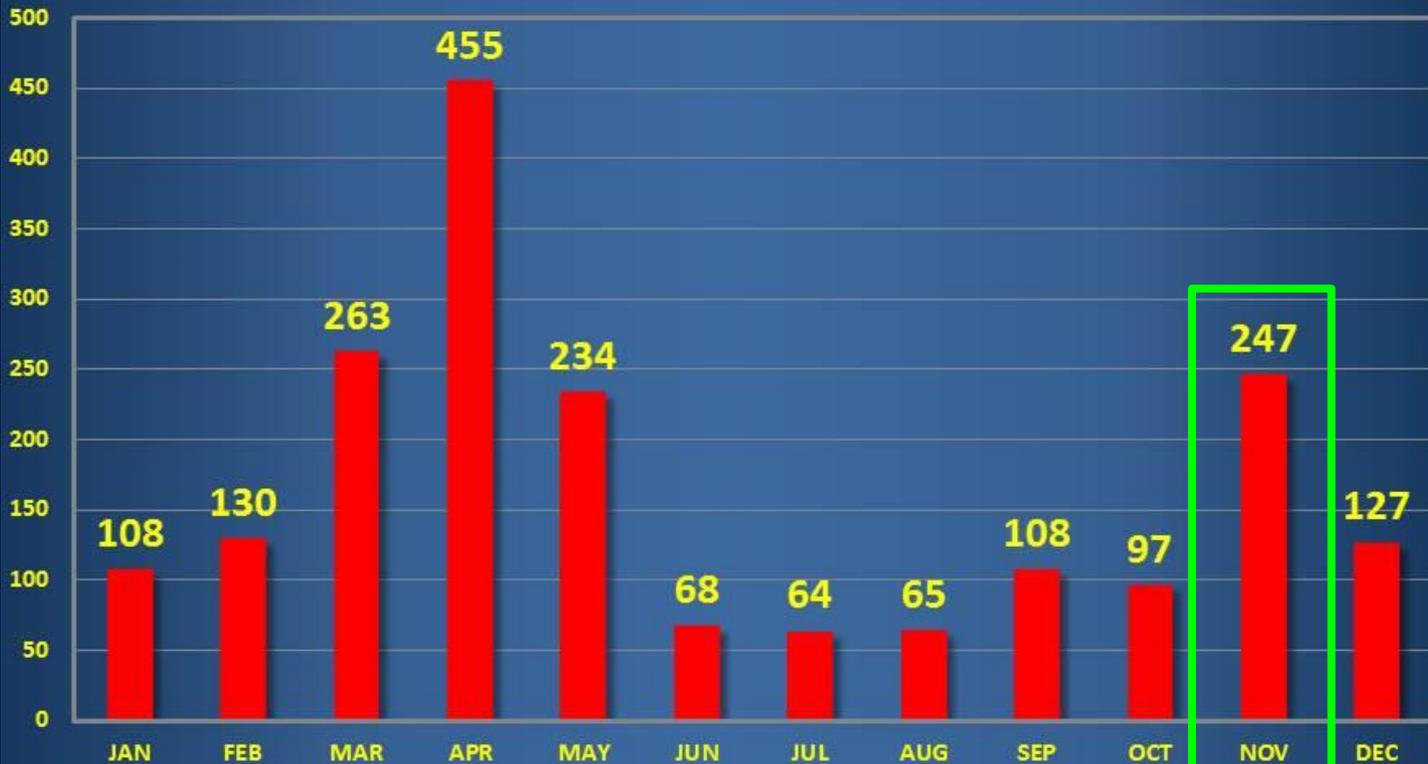


AL Tornadoes By Month



Birmingham
Alabama

Alabama Tornadoes
By Month 1950-2014



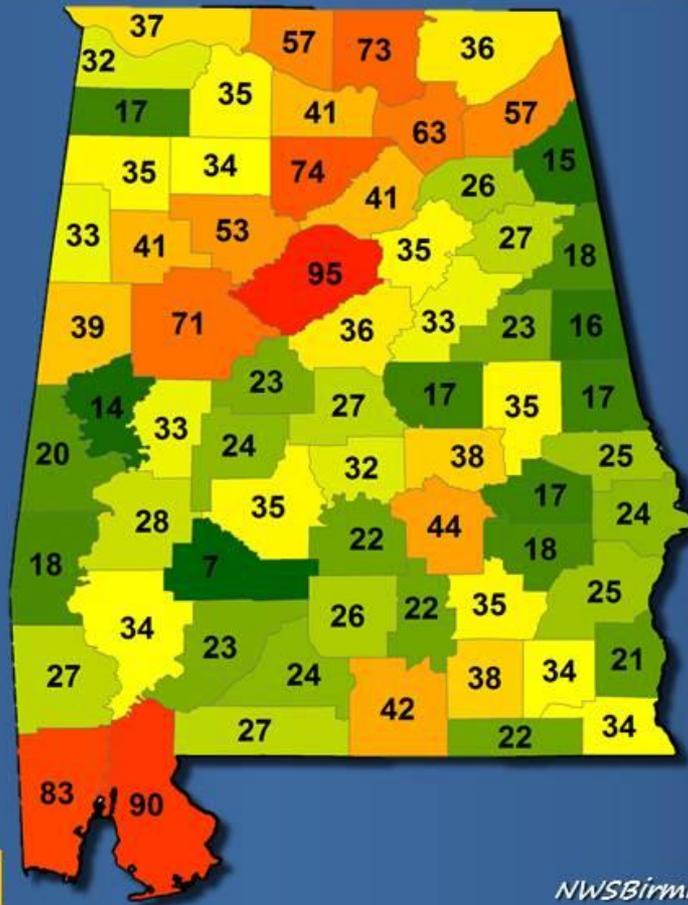
Source BMX & SPC

AL Tornadoes By County



Birmingham
Alabama

Alabama Tornadoes By County 1950-2014



Source BMX & SPC

NWSBirmingham



Hurricanes

- 01 June - 30 November
- The official storm track and intensity provided to DoD by the National Hurricane Center
 - We cannot and will not deviate
 - Tailor to Ft Rucker

Hurricanes: 2016 Outlook

Organization	Named Storms	Hurricanes	Major Hurricanes (Cat 3 or greater)
NOAA (May)	10-16	4-8	1-4
NOAA (Aug)	12-17	5-8	2-4
Colo State	15	6	2
Average	10	6	3

So far:

- 9 storms
- 4 tropical storms
- 3 hurricanes
- 2 tropical depression

Hurricanes

29-Aug-16 TROPICAL DEPRESSION 9 1045L UPDATE

BLUF

Overall Threat to Ft Rucker (72 hrs):

Winds:

Rain/Flooding:

Tornadoes:

No Impact

Impacts Possible

Impacts Probable

5-DAY CONE

IMPACTS TO FT RUCKER (72 HRS)

THE STORM WILL IMPACT FT RUCKER:	WEDNESDAY OVERNIGHT - FRIDAY MORNING
IMPACTS TO FT RUCKER:	GUSTY WINDS, RAIN/FLASH FLOODING,
ONSET/DURATION OF ≥ 50 KT WINDS (SUSTAINED):	N/A
MAX WINDS EXPECTED:	12KTS WITH GUSTS TO 20KTS
TIME OF MAX WINDS:	THURSDAY @ 07L
ONSET OF PRECIPITATION:	WEDNESDAY OVERNIGHT
TOTAL RAINFALL EXPECTED:	1 - 2 INCHES
POINT OF CLOSEST APPROACH:	200NM

NEXT UPDATE: 29 AUG @ 1645L



Weather Happens.....

Are YOU prepared?

Contact Info

- <http://www.rucker.army.mil/6weather>
- "Like" us on Facebook
- "Follow" us on Twitter
- Grab our App
- 255-8385/8397
- 134.1 (PMSV) or 348.8 (WIF)

QUESTIONS?

COMMENTS?



FEEDBACK?

SUGGESTIONS?

THOUGHTS?

RECOMMENDATIONS?

IDEAS?