

Spring & Summer Weather Hazards



OL-C, 18th Combat Wx Squadron

Overview

- What's New
- Hours of Operation
- Products
- Services
- Climatology
- Seasonal Patterns
- Seasonal Hazards

What's New

- Aviation Wx Webpage

<https://www.army.mil/rucker#org-weather>

FORT RUCKER WEATHER OPERATIONS

AVIATION WEATHER

AM Products	+
PM Products	+
N1 Products	+
Fixed Wing Products	+
7-Day Forecast	+

PM Products

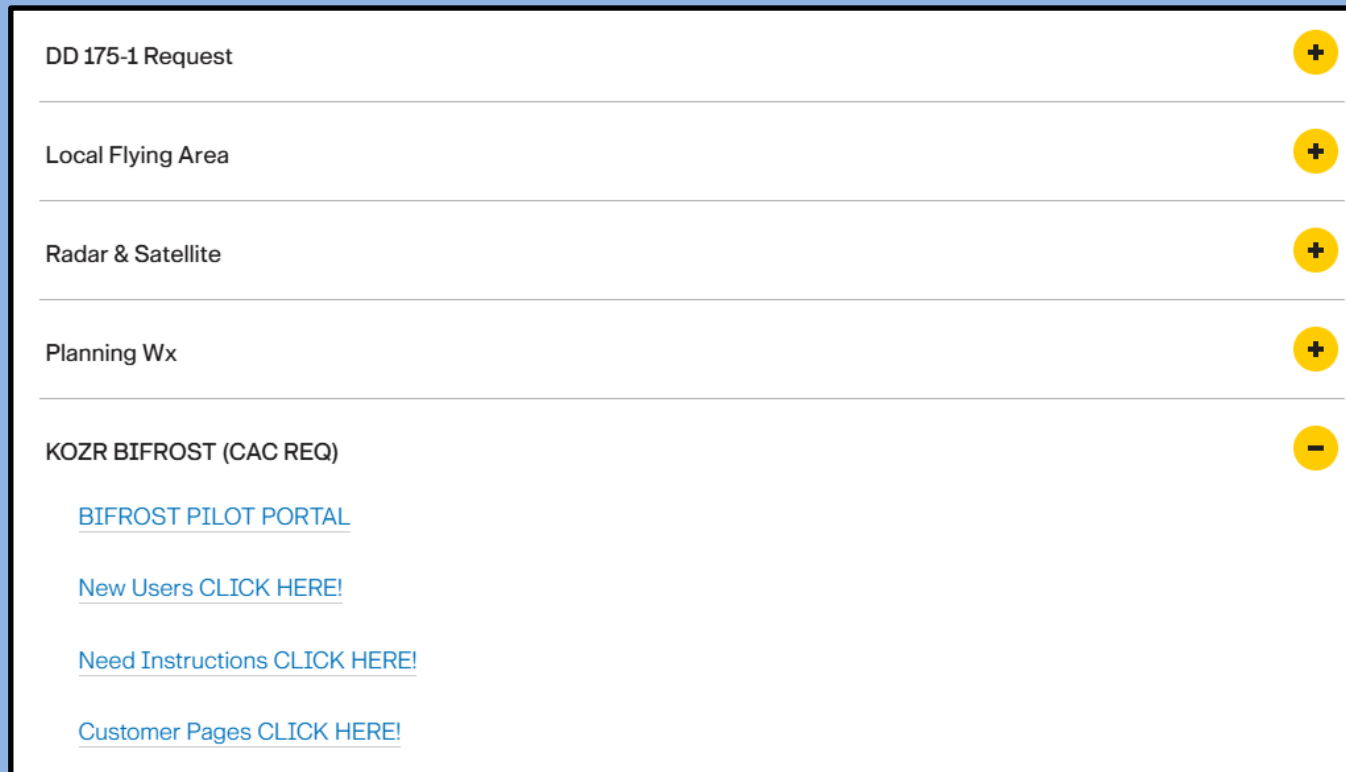
[PM AMD2.pdf](#)

[PM-2.pdf](#)

What's New

- BIFROST

- Log into BIFROST (<https://bifrost.afweather.mil>) and request account with mil email address



What's New

KHEY and 19AL Customers: <https://bifrost.afweather.mil/ui/dashboard/62634e67-5291-4cad-a68c-fc5706d5a694>

KLOR Customers: <https://bifrost.afweather.mil/ui/dashboard/ac4ad6c3-f705-4323-bffe-93e963e9af40>

KSXS Customers: <https://bifrost.afweather.mil/ui/dashboard/81da7af1-033e-41c9-81e1-b470fe931b8a>

KFHK Customers: <https://bifrost.afweather.mil/ui/dashboard/42a1ac73-3834-4bf0-94c8-93a7cd81cb9b>

KOZR Customers: <https://bifrost.afweather.mil/ui/dashboard/0cee3748-7470-44ff-959b-8544c4594196>

Army Fixed Wing Customers: <https://bifrost.afweather.mil/ui/dashboard/630f41b8-3d81-437f-8a66-a25150748658>

Stage Fields Lightning: <https://bifrost.afweather.mil/ui/dashboard/717a4b3a-3627-449f-9ecf-2358f8d7ced9>

Base Fields Lightning: <https://bifrost.afweather.mil/ui/dashboard/a611b818-bfaa-4915-a53a-64745982f516>

What's New

KLOR Sensor Data



Obs and TAFs

OBS + TAFS

12 Hours



2026-04-08T12:49:58Z

SHOW ALL

KLOR

KOZR



☐ Decoded View

METAR KOZR 081155Z AUTO 03005KT 10SM CLR 10/05 2026-04-08T11:55:00Z
A3019 RMK AO2 SLP225 T00980052 10143 20090 52020 \$=

SPECI KOZR 081135Z AUTO 03005KT 10SM CLR 09/05 2026-04-08T11:35:00Z
A3018 RMK AO2 SLP221 \$=

METAR KOZR 081055Z AUTO 03005KT 10SM CLR 09/05 2026-04-08T10:55:00Z
A3016 RMK AO2 SLP214 T00980052 10143 20090 52020 \$=

SPECI KOZR 081046Z AUTO 03005KT 10SM CLR 09/05 2026-04-08T10:46:00Z
A3016 RMK AO2 SLP214 \$=

METAR KOZR 080955Z AUTO 03005KT 10SM CLR 09/05 2026-04-08T09:55:00Z
A3014 RMK AO2 SLP207 T00980052 10143 20090 52020 \$=

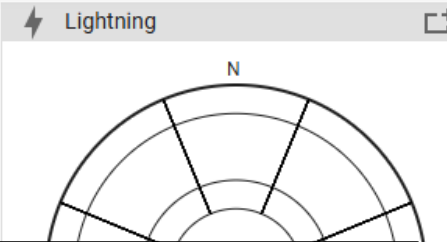
COLUMNS FILTERS

Roll... TAF

Time (Z)

TAF KOZR 081000Z 0810/0916 06006KT 9999 SCT030 SC... 2026-04-08T10:00:00Z
BECMG 0813/0814 07010G15KT 9999 FEW030 SCT120 SC...
TEMPO 0814/0903 07015G22KT
BECMG 0903/0904 04006KT 9999 SCT120 SCT220 QNH30...

	°C	°F
Max	14	57
	07 / 26	45 / 79
ax	08	46
	00 / 09	32 / 48
	05	11
	71%	



WWA Manager

SHOW ALL

KOZR



ACTIVE 1

AUGMENT



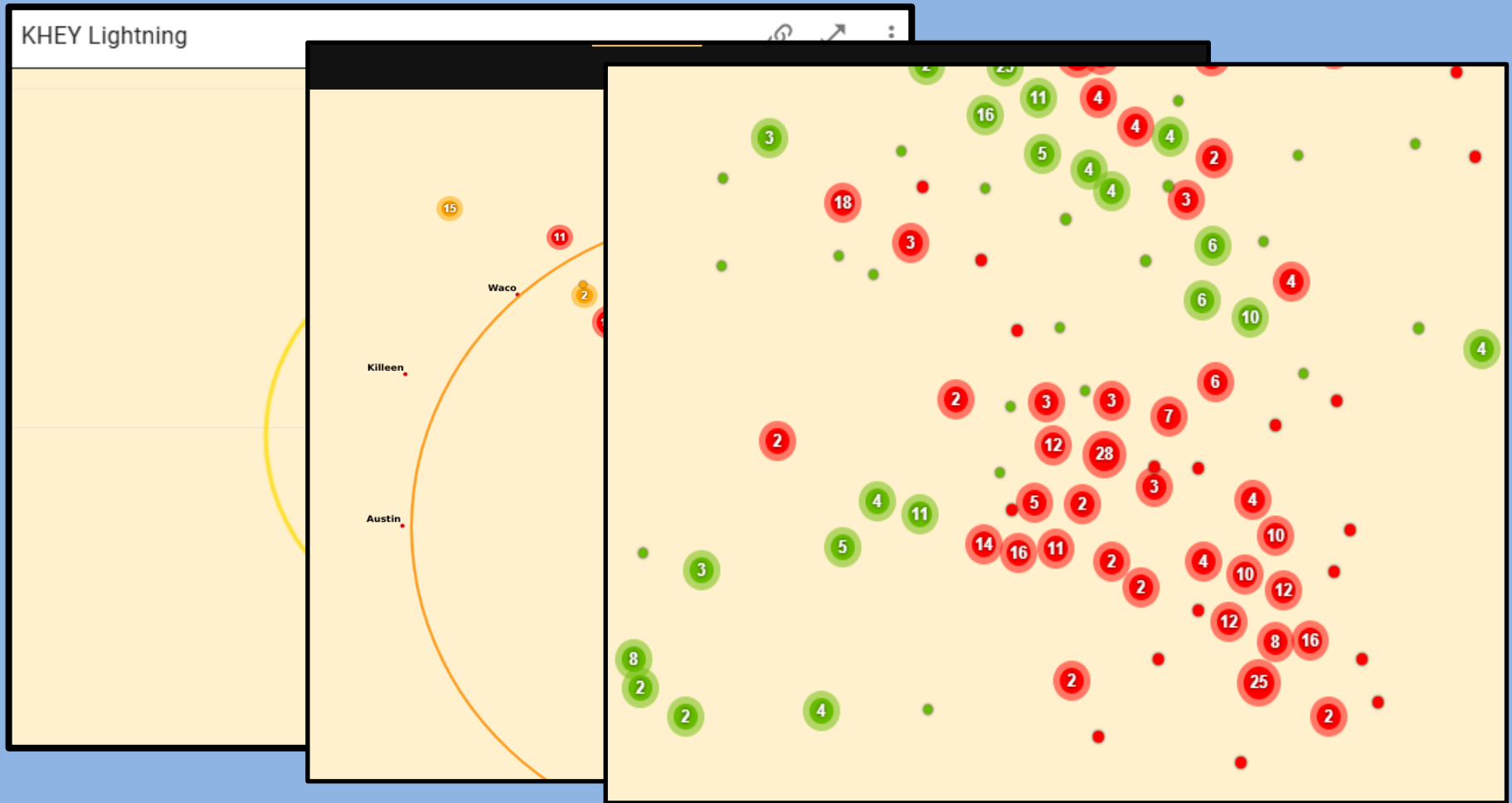
INACTIVE 14

CLOSED

ICAO Type Phenom Group ID DLT (min) Forecaster Valid Time

KOZR WATCH Lightning 05-006 60 Dixon, A. 05/09 18:01Z to 05/10 00:30Z

What's New



Red: Lightning strike 0-15 minutes old. Outdoor activities are not safe.

Green: Lightning strike 16-30 minutes old. Outdoor activities are safe.

KHEY - HANCHEY AHP - GALWEM 2025-04-09T06:00:00Z Extracted Model Run																	
Valid	0 hr Wed 09/06Z 09/00L	3 hr Wed 09/09Z 09/03L	6 hr Wed 09/12Z 09/06L	9 hr Wed 09/15Z 09/09L	12 hr Wed 09/18Z 09/12L	15 hr Wed 09/21Z 09/15L	18 hr Thu 10/00Z 09/18L	21 hr Thu 10/03Z 09/21L	24 hr Thu 10/06Z 10/00L	27 hr Thu 10/09Z 10/03L	30 hr Thu 10/12Z 10/06L	33 hr Thu 10/15Z 10/09L	36 hr Thu 10/18Z 10/12L	39 hr Thu 10/21Z 10/15L	42 hr Fri 11/00Z 10/18L	45 hr Fri 11/03Z 10/21L	48 hr Fri 11/06Z 11/00L
Temp °F	52°F	49°F	46°F	56°F	63°F	66°F	62°F	55°F	51°F	48°F	48°F	64°F	71°F	73°F	67°F	62°F	60°F
Temp °C	11°C	9°C	8°C	13°C	17°C	19°C	17°C	13°C	11°C	9°C	9°C	18°C	21°C	23°C	20°C	17°C	16°C
DP Temp °F	43	40	39	38	37	39	41	39	41	39	40	48	46	48	51	55	54
DP Temp °C	6	5	4	3	3	4	5	4	5	4	4	9	8	9	10	13	12
Humidity	73%	73%	75%	51%	39%	37%	46%	56%	67%	69%	74%	57%	41%	41%	55%	77%	81%
Wind Chill	52°F	49°F	46°F	56°F	63°F	66°F	62°F	55°F	51°F	48°F	48°F	64°F	71°F	73°F	67°F	62°F	60°F
Heat Index	52	49	46	56	63	66	62	55	51	48	48	64	77	77	67	62	60
FITS	62	58	56	63	69	72	69	63	60	57	57	74	78	80	77	74	72
Gen Wx	Coming Soon	Coming Soon	Coming Soon	Coming Soon	Coming Soon	Coming Soon	Coming Soon	Coming Soon	Coming Soon	Coming Soon	Coming Soon	Coming Soon	Coming Soon	Coming Soon	Coming Soon	Coming Soon	Coming Soon
Cloud Coverage	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	4	6
Lowest Ceiling															055		054
Winds (kts)	360/4 4	000/5 5	360/4 4	010/4 4	350/2 2	330/3 3	360/2 2	070/3 3	130/3 3	250/2 2	240/1 1	210/4 4	260/5 14	260/6 14	200/3 3	210/8 15	230/8 16
Cross Wind (kts)																	
1,000 ft MSL Winds	020/17	030/12	030/7	360/5	360/2	330/3	350/3	090/4	160/4	240/4	260/5	250/8	260/7	260/9	250/9	240/20	240/29
2,000 ft MSL Winds	360/14	360/13	350/10	360/7	360/2	330/3	350/3	080/3	170/3	270/6	290/7	280/8	260/7	270/10	260/11	240/16	250/26
3,000 ft MSL Winds	340/14	340/15	340/14	010/10	030/3	330/3	340/3	080/1	210/3	280/7	300/9	300/9	270/7	270/10	270/13	250/14	250/24
4,000 ft MSL Winds	320/14	320/15	340/13	010/9	020/3	340/3	330/2	140/1	210/4	260/6	280/8	300/10	280/7	270/11	270/15	260/14	260/24
5,000 ft MSL Winds	310/14	320/14	350/11	010/8	340/5	340/4	000/3	140/2	200/5	240/7	260/9	280/10	280/12	270/12	280/16	270/14	270/25
6,000 ft MSL Winds	320/13	330/12	350/11	350/8	330/8	340/7	000/4	290/1	230/4	250/8	270/9	270/11	280/18	290/15	280/17	280/15	270/27
Visibility	15	15	15	15	15	15	15	14	13	11	10	15	15	15	15	9	8
Precip																	
3 hr Precip		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Prob of Precip		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Prob of TSTM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Prob of Snow		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Prob of Frz Precip		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Prob of Fog	0%	0%	0%	0	0	0	0	0	0%	0%	0%	0	0	0	0	0%	0%
ALSTG (in hg)	30.10	30.13	30.17	30.21	30.19	30.14	30.16	30.20	30.20	30.19	30.22	30.23	30.18	30.11	30.09	30.08	30.04
Press Alt (ft)	142	120	76	43	62	105	89	54	56	65	35	27	69	136	153	164	195
Density Alt (ft)	-163	-407	-620	-25	457	733	429	-76	-321	-500	-565	548	996	1227	916	623	511
Max Turb Blo 10K	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	LIGHT	LIGHT
Max Icg Blo 10K	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
Trop Hgt (ft)	13875	13865	13871	13876	13865	13855	13874	13893	13880	13869	13874	13880	12049	13867	13864	13858	13829
Freezing Lvl (ft AGL)	10076	10006	10613	10770	11090	11291	11408	11470	11414	11196	11079	11564	11115	11216	10866	10817	10330

Hours of Operation

- Observing
 - 24/7 (automated)
- Forecasting @ KOZR
 - 01L Monday – 01L Tuesday, then 03L – 01L Tuesday thru Saturday (closed weekends and federal holidays)
- 26 OWS contact info
 - COMM 318-529-2651/2652/2653
 - DSN 331-2651/2652/2653

Specification/Amendment Criteria

NWS TAF	AF TAF	MEF/-1/-2
$\geq 3000 / 5$	$\geq 1500 / 3$	$\geq 1500 / 3$
$< 2000 / 3$	$< 1500 / 3$	$\geq 1000 / 3$
$< 1000 / 3$	$< 600 / 1 \frac{1}{2}$	$< 1000 / 3$
$< 600 / 2$	$< 200 / 1/2$	$< 800 / 2$
$< 200 / 1/2$		$< 700 / 2$
		$< 600 / 1 \frac{1}{4}$
		$< 500 / 1$
		$< 300 / 1/2$
		$< 200 / 1/4$

- MAY BE AUTO
- LOOSE AMD RULES
- NON MIL

- MAY BE AUTO
- STRICT AMD RULES
- LOW PRIORITY

- STRICT AMD RULES
- HIGH PRIORITY
- TAILORED TO YOU

Keep In Mind.....

FLIGHT HAZARDS W/IN 150NM (All heights are MSL)						
TURBULENCE (Cat I)	LGT	OCNL	MDT	CLR/CLD	FL: SFC-100	LOC: ALL AREAS
ICING	NONE					
THUNDERSTORMS	NONE					
LOW LEVEL WIND SHEAR	NO					

Hazards are for 150NM

FLIGHT LEVEL WINDS & TEMPS (MSL)				
FLT LEVEL	WIND / TEMP			
010	26030	KT	/	13 °C
020	27030	KT	/	13 °C
030	27025	KT	/	12 °C
040	27025	KT	/	10 °C
050	26025	KT	/	8 °C
060	26025	KT	/	5 °C
070	27025	KT	/	3 °C
080	28025	KT	/	2 °C

FL winds/temps are for 150NM and mid point of period

19. MINIMUM CEILINGS - LOCATION				20. MINIMUM CEILINGS - LOCATION				21. MINIMUM FREEZING LVL - LOCATION			
NRN AREAS				PT AGL				NRN AREAS			
050				015				015			
22. THUNDERSTORMS				23. TURBULENCE (ACFT < 12,500 LBS)				24. WIND			
PT AGL				PT AGL				PT AGL			
NONE				NONE				NONE			
ISOLATED 1 - 2%				LIGHT				TRACE			
FEW 3 - 10%				MODERATE				MODERATE			
SCATTERED 10 - 40%				SEVERE				SEVERE			
NUMEROUS > 40%				EXTREME				SEVERE			
HAIL, SEV TURB & KING HEAVY PRECP, LIGHTNING & WIND SHEAR EXPECTED IN NEAR THUNDERSTORMS				X SFC-100				X SFC-100			
LOCATION				LOCATION				LOCATION			
X ALL AREAS				X ALL AREAS				X ALL AREAS			

TURBC/ICING OUTSIDE TS

REMARKS:	AMD 1: START THUNDERSTORMS AFTER 20Z FOR VG S, BEARCAT, GOLDFISH AND AFTER 22Z FOR HAWK, VG N
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Read the Remarks

MEF Amendment vs Update

AMENDED @ 1635 Z		MISSION EXECUTION FORECAST			UPDATED @ 1845 Z	
DATE: 8-May-18		VALID PERIOD: AM 1130Z-1800Z			FORECASTER INITIALS: AB	
FLIGHT LEVEL WINDS & TEMPS (MSL)		FCST DATA:		AREA	SOLAR/LUNAR	
FLT LEVEL	WIND / TEMP	MAX TEMP (°C):	29	30	BMNT / EENT	0454L / 2025L
010	02008 KT / 22 °C	MIN TEMP (°C):	14	13	SUNRISE	0552L
020	35006 KT / 20 °C	MAX DEWPT (°C):	15	17	SUNSET	1927L
030	34006 KT / 18 °C	MIN ALSTG:	29.99	29.99	BMCT / EECT	0526L / 1953L
040	32006 KT / 16 °C	MAX PA (FT):	240	440	MOONRISE	0148L
050	30006 KT / 13 °C	MAX DA (FT):	2090	2500	MOONSET	1252L
060	30006 KT / 9 °C	MIN CIG (FT AGL):	NONE	NONE	AZIMUTH	48.7 °
070	30005 KT / 7 °C	MIN VIS (SM):	7	7	ELEVATION	-65.3 °
080	30005 KT / 5 °C	MIN WX:	NONE	NONE	% ILLUM	46 %
FLIGHT HAZARDS W/IN 150NM (All heights are MSL)						
TURBULENCE (Cat I)	NONE					
ICING	NONE					
THUNDERSTORMS	NONE					
LOW LEVEL WIND SHEAR	NONE					

- Amendment is a change to the forecast
- Update is to add a WWA that is already forecast or to correct a typo

Products

	CST	CDT
AM Issue	0445L	0500L
AM Valid	0630-1300L	0630-1300L
PM Issue	1015L	1045L
PM Valid	1300-1930L	1300-1930L
N1 Issue	1630L	1715L
N1 Valid	1930-0230L	1930-0230L

Products

- VCTS
 - Used to articulate TS risk
 - Better use of TEMPO TS
 - Does NOT mean predominant thunderstorms

TS Code	TS Risk	TS Coverage
VCTS	Low	ISOLD
TEMPO TS	Medium	FEW or greater
Predominant	High	FEW or greater

Products

Typical summer day:

GOLDFISH	18010KT 7SM VCTS FEW030 SCT080 ISOLD 2000-2200Z: VRB15G25KT 1/2SM TSRA OVC010 AFT 2200Z: 15010KT 5SM -SHRA SCT030 BKN080 AFT 2300Z: 12008KT 7SM SCT030 BKN080	FEW (11-25%)
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DEST / ALTN KOZR	1800	Z TO 2200	Z	18010	7	VCTS	FEW030 SCT080	29.99	INS
DEST / ALTN TEMPO	2000	Z TO 2200	Z	VRB15G25	1/2	TSRA	OVC010		INS
DEST / ALTN FROM	2200	Z TO 2300	Z	15010	5	-SHRA	SCT030 BKN080	29.97	INS
DEST / ALTN FROM	2300	Z TO 0030	Z	12008	7		SCT030 BKN080	29.97	INS
DEST / ALTN		Z TO	Z						INS

Products

7-DAY OUTLOOK: 08 APR - 14 APR

	W			T			F			S			S	M	T
	AM	PM	N1	AM	PM	N1	AM	PM	N1	AM	PM	N1			
Ceiling															
Visibility															
Surface Wind															
Turbulence															
Icing															
Thunderstorms															
UAS Winds															
High Temp	25			25			27			28			29	29	30
Low Temp	12			12			13			13			15	16	17

GO	MARGINAL	NO GO
1000	700	500
3 SM	2 SM	1 SM
< 20KTS	20 - 29KTS	≥ 30KTS
NONE	LGT (CAT II)	≥ MDT (CAT II)
NONE	4°/MOISTURE	0°/MOISTURE
< 30KTS	30 - 44KTS	≥ 45KTS
< 10KTS	10KTS	> 10KTS

Prepared by: Cindy L Howell

The streak of VFR weather continues! The only issue today will be gusty winds (G25kts). Same story for tomorrow. By Friday, winds abate, and we'll carry that thru the weekend and into early next week. Still no rain on the horizon.

Services

WWAS

MEF AMDS

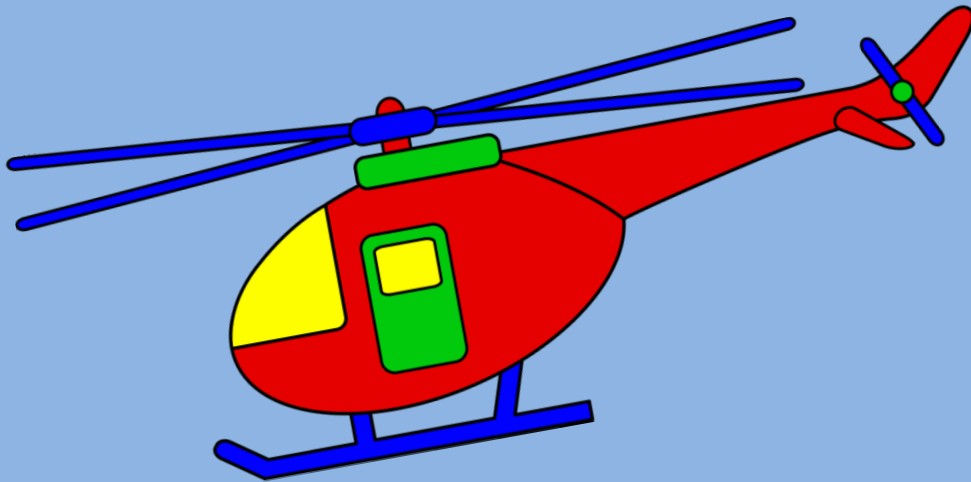
SEVERE UPDATES



Services

- PMSV
 - 134.1 (KOZR)
 - 243.35 (KLOR)
 - Live forecaster
- WIF
 - 348.8
 - Recorded loop
 - Detailed information about MEF AMDs
 - Hourly updates/void times

PIREPs



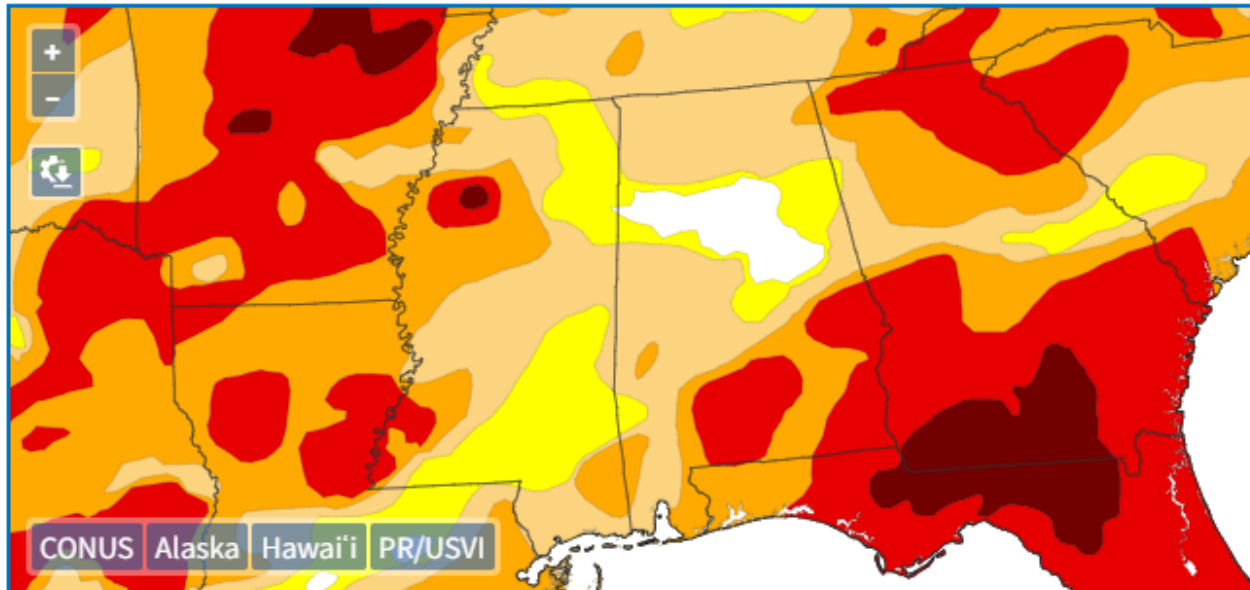
- Critical during poor wx
- Used to amend the MEF/-1
- Used to brief other aircrews
- PMSV Freq: 134.1

Climatology

	Max Temp	Min Temp	Direction	Speed	Precip
Jan	59	39	N	5	4.79
Feb	63	42	N	5	5.07
Mar	70	48	NW	5	5.62
Apr	78	55	NW	4	4.17
May	84	63	NE-E	4	3.69
Jun	89	70	S-SW	4	4.85
Jul	90	72	SW	4	5.19
Aug	90	72	NE-E	3	4.43
Sep	86	68	NE-E	3	3.97
Oct	78	56	NE-E	4	3.37
Nov	69	47	N	4	3.50
Dec	62	41	N	5	4.25

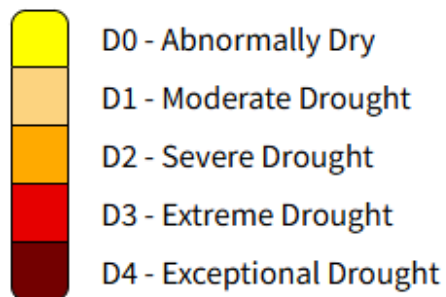
Drought Monitor

INTERACTIVE MAP: U.S. DROUGHT MONITOR



Legend

U.S. Drought Monitor Categories



Looking Ahead A - M - J



Seasonal Temperature Outlook

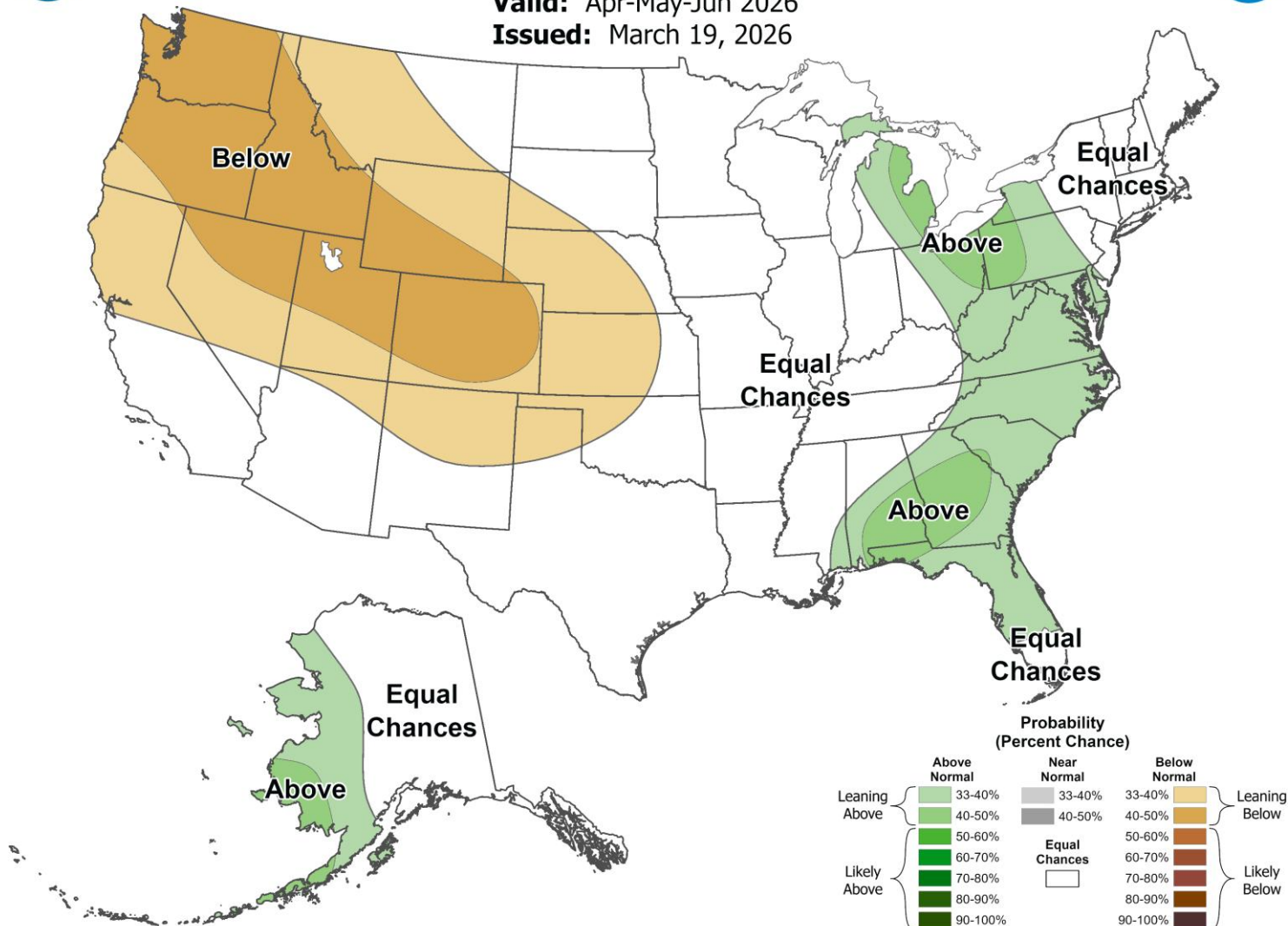
Valid: Apr-May-Jun 2026



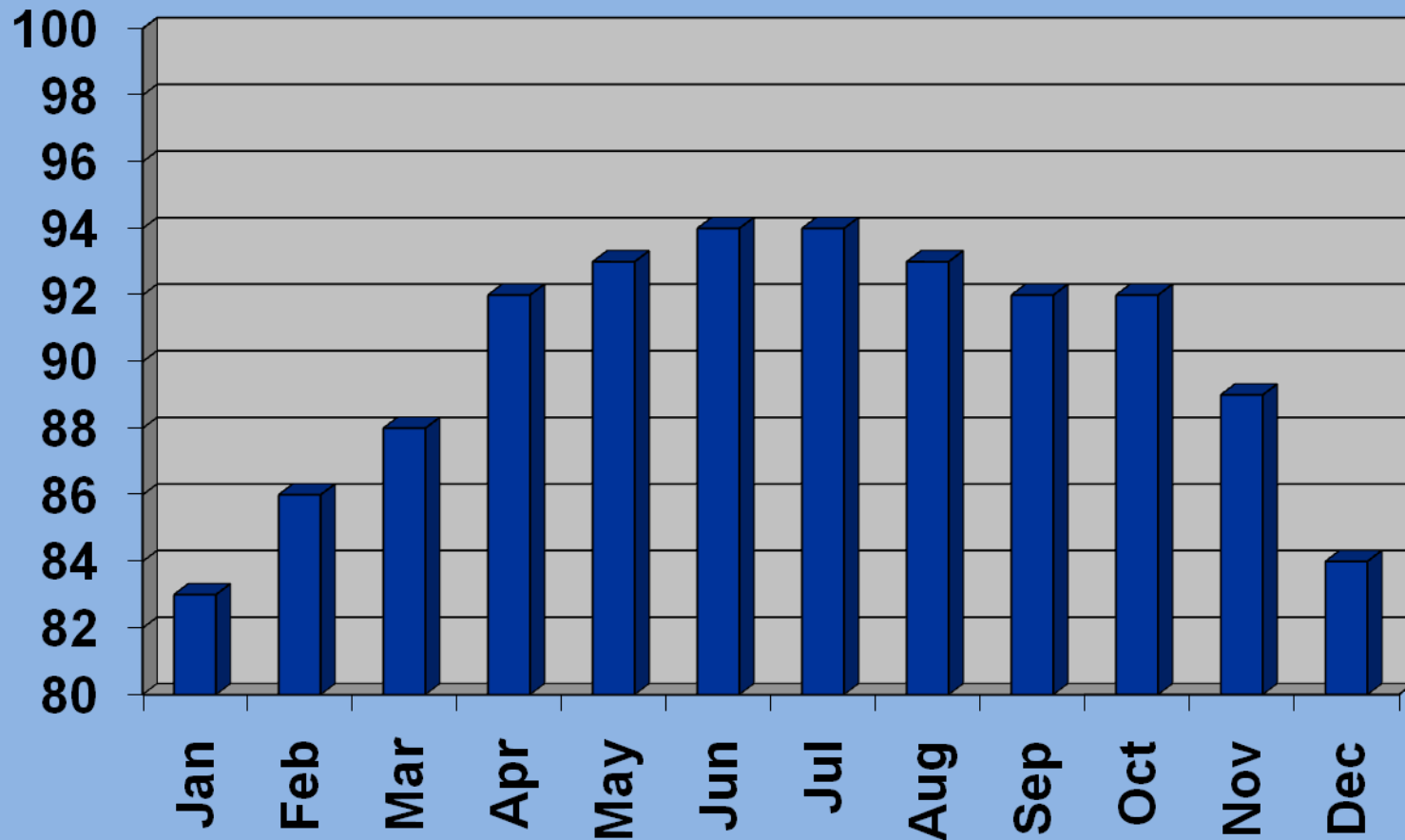
Seasonal Precipitation Outlook

Valid: Apr-May-Jun 2026

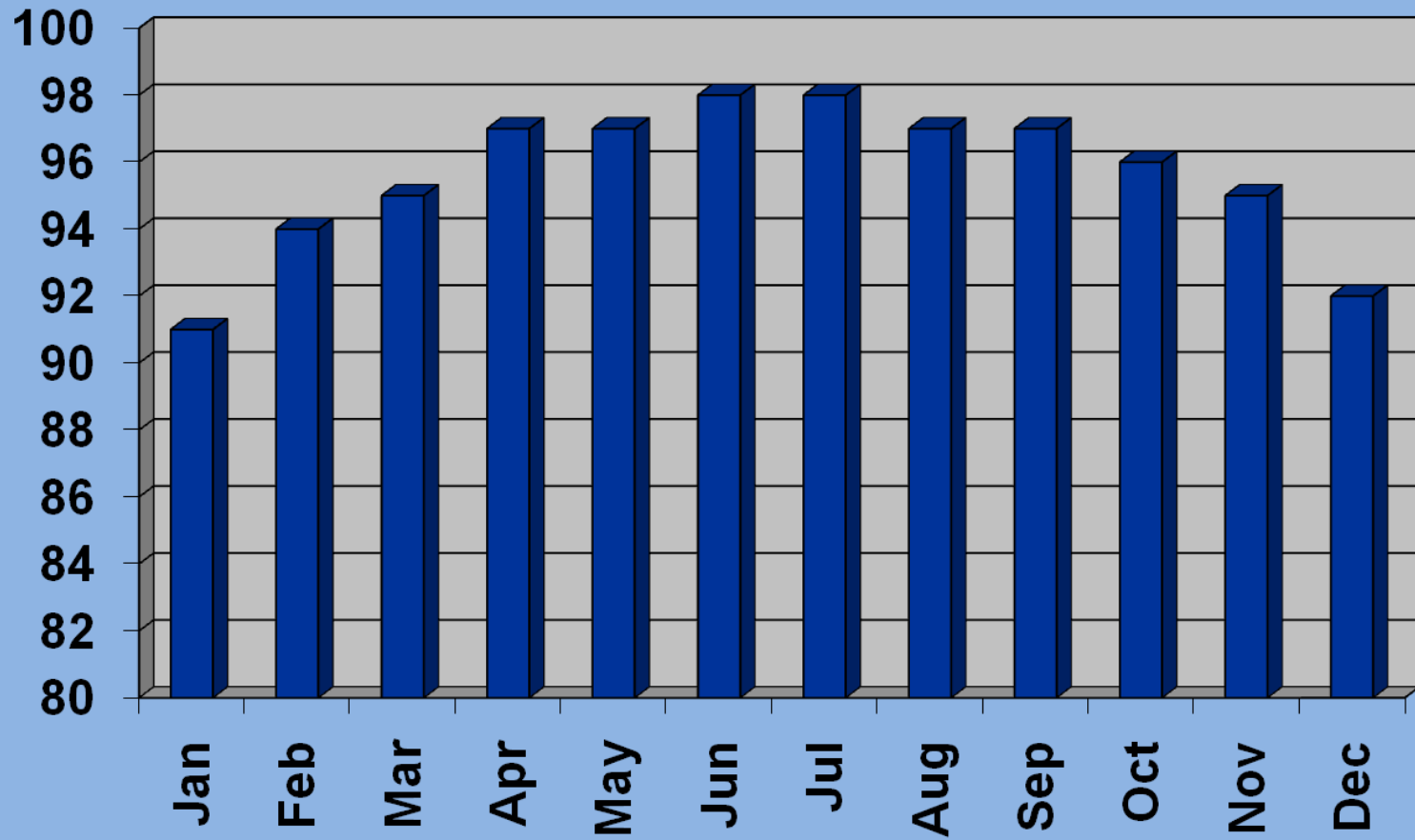
Issued: March 19, 2026



Percent $\geq 1000/3$



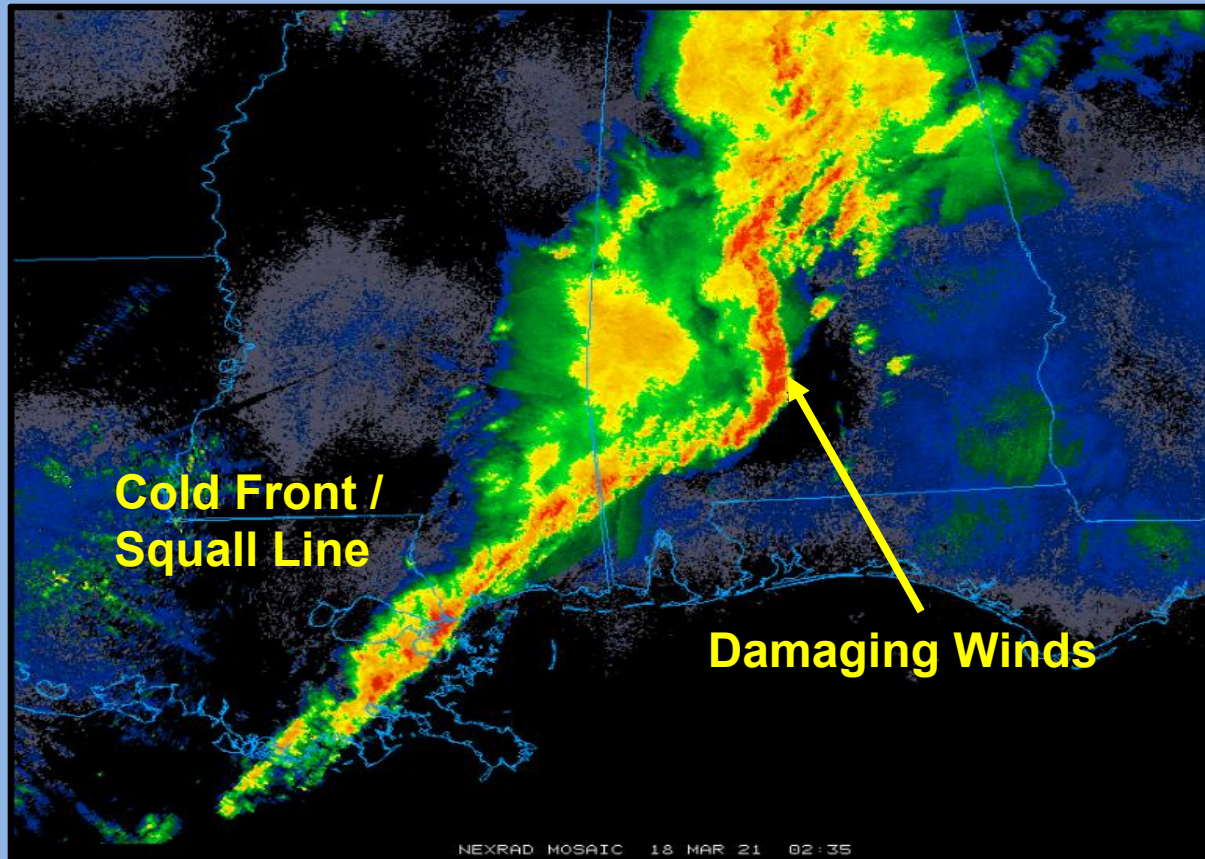
Percent $\geq 500/1$



Seasonal Weather

- Spring-Summer Patterns
- Spring-Summer Hazards
 - Thunderstorms
 - Turbulence
 - Tornadoes
 - Hurricanes

Spring Patterns



Summer Patterns

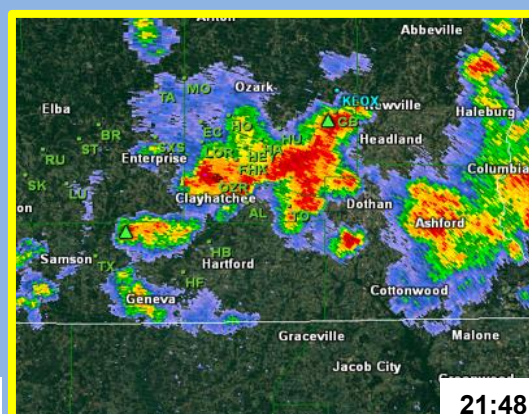
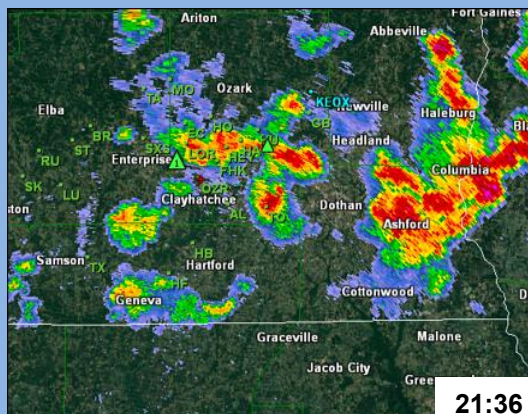
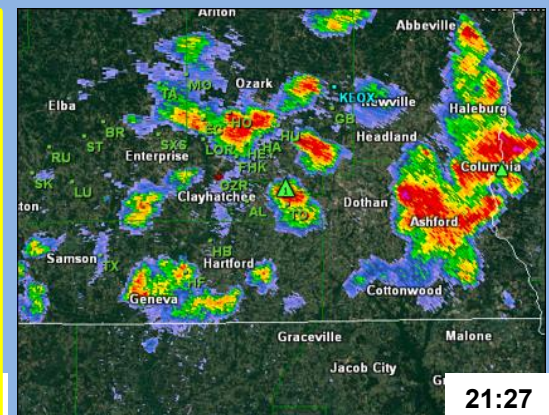
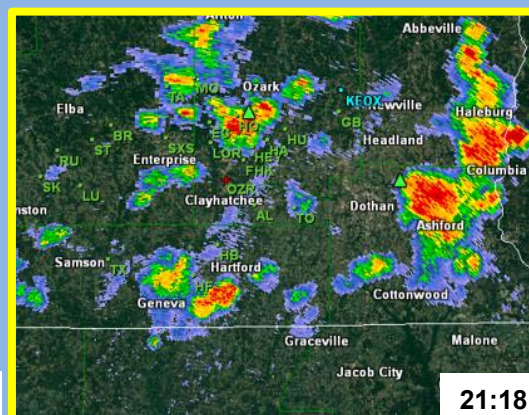
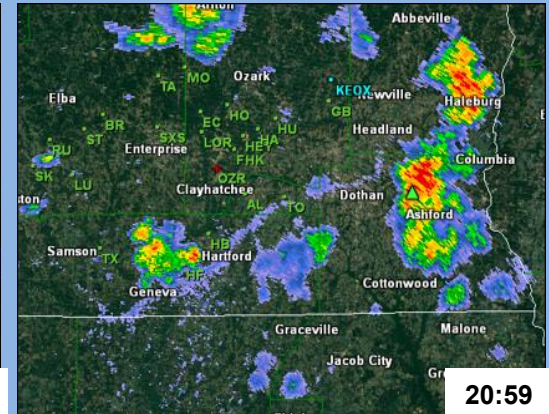
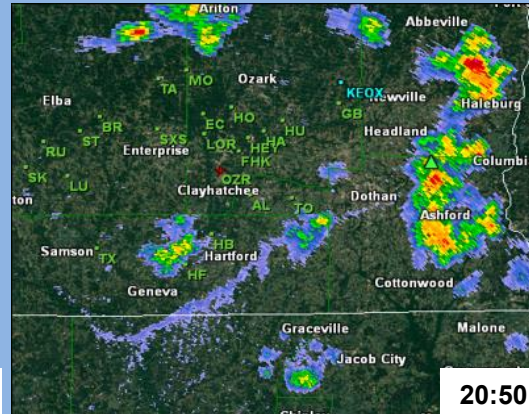
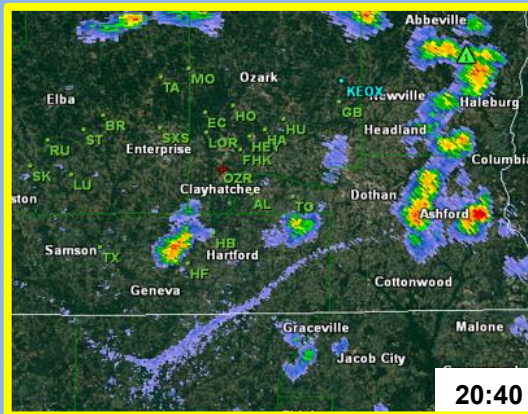


Interactions: Outflow Boundary



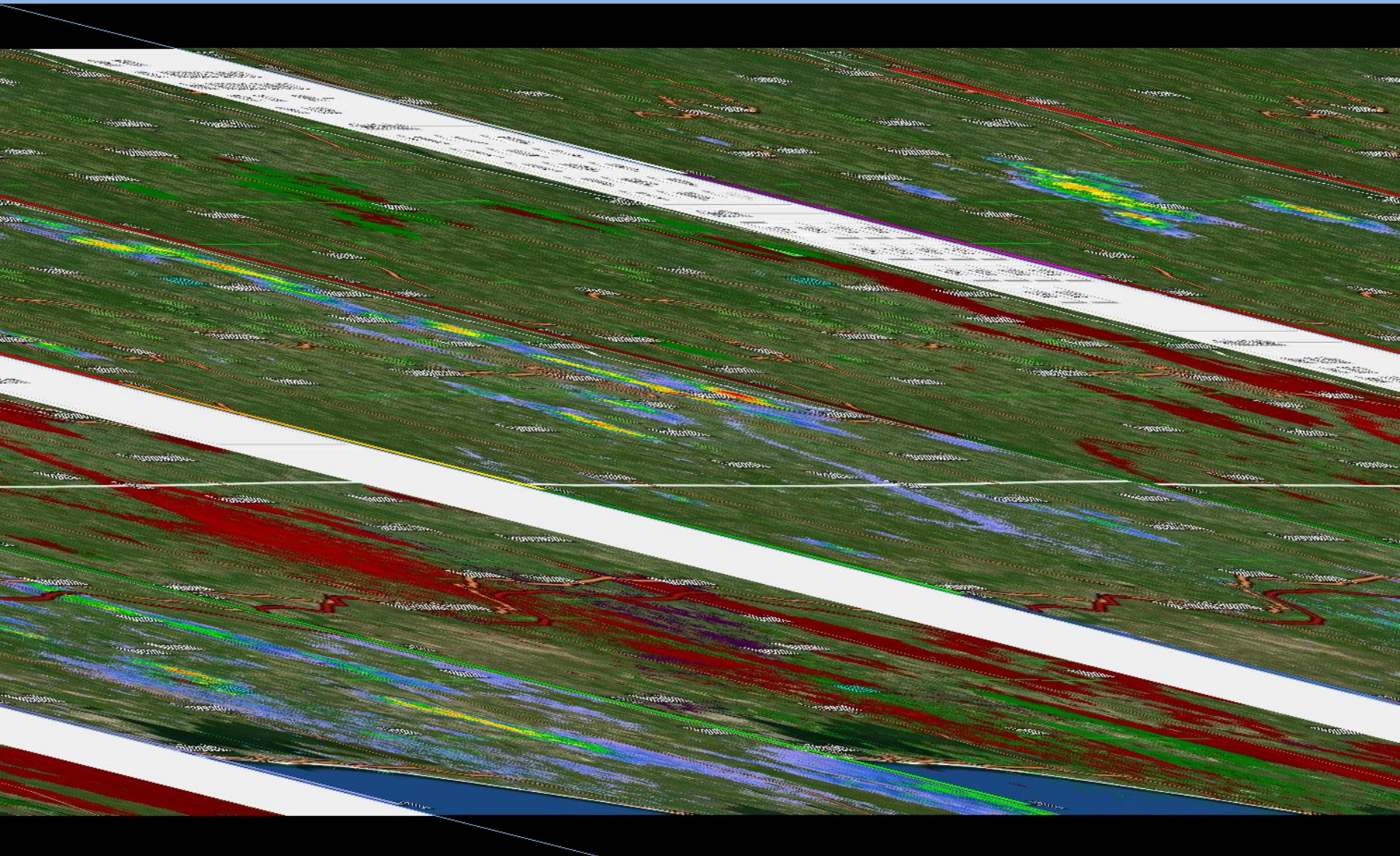
- Dissipating stage of TS
- Focal point for new TS development
- Gusty winds, wind shift, LLWS
- Most Wx Apps, websites filter

Interactions: Outflow + Merging Cells

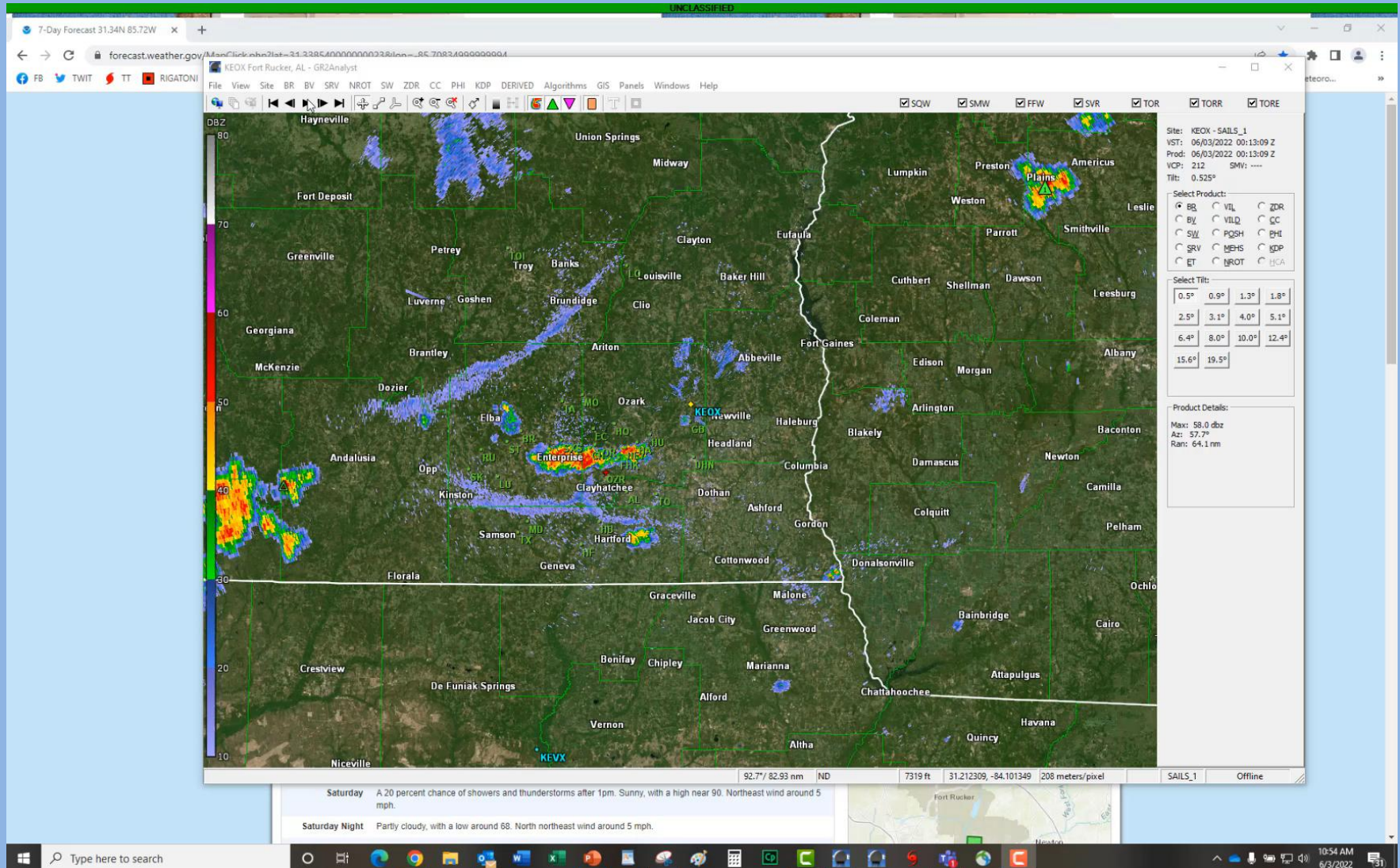


KLOR - 44KTS
KOZR - 59KTS

Interactions: Outflow + Merging Cells

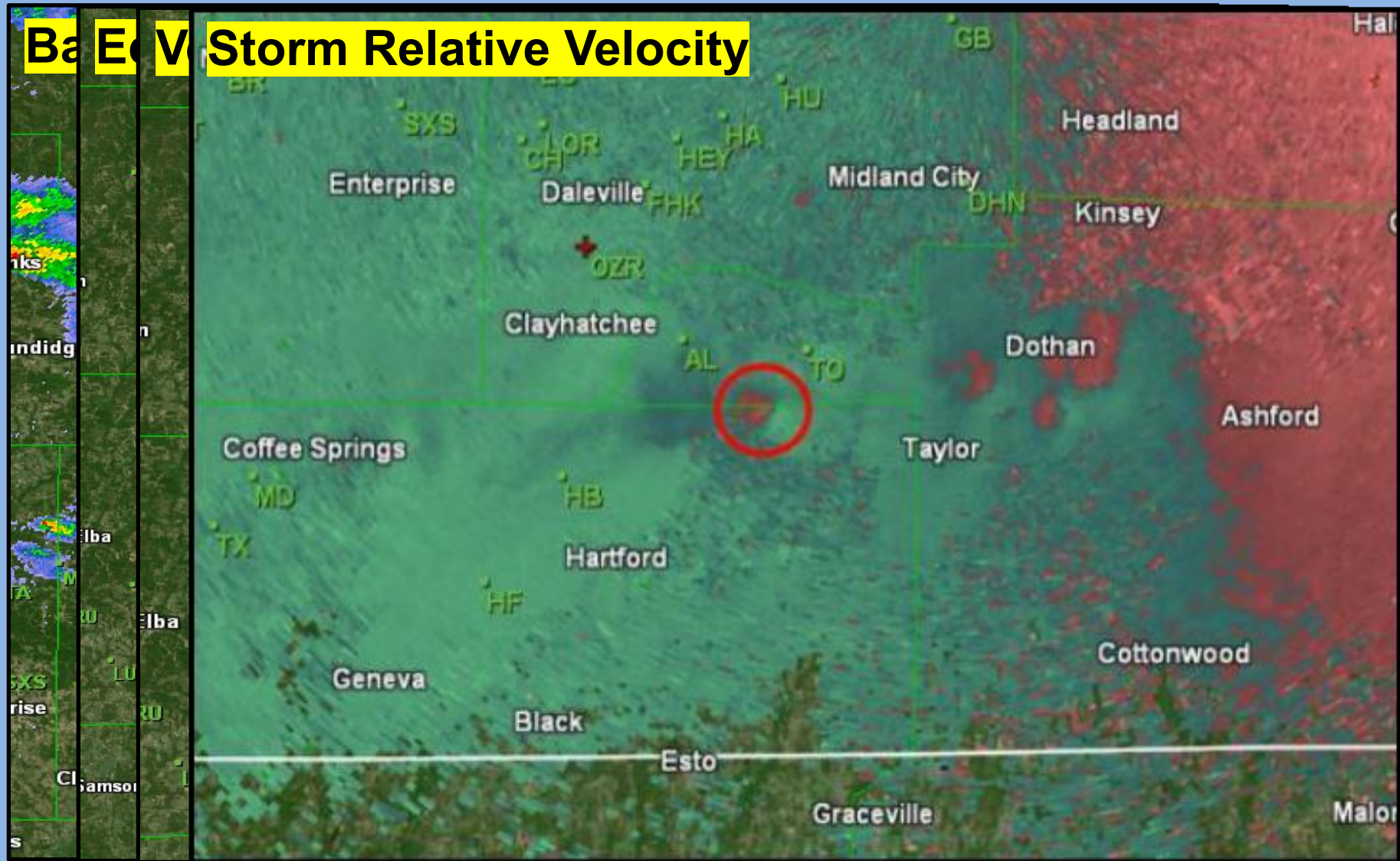


Thunderstorm Interactions

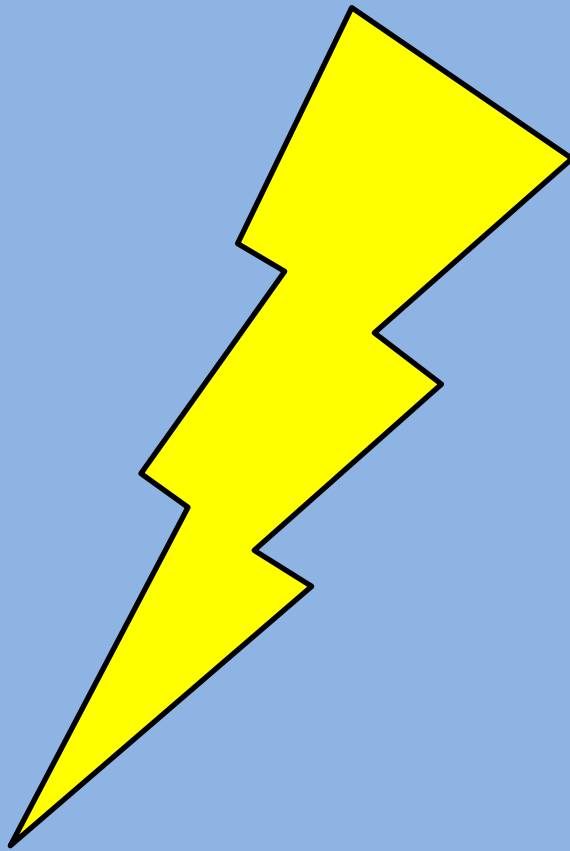


Radar 101

Base Echo Storm Relative Velocity



Thunderstorms



MICROBURSTS

SVR ICING

LLWS

HAIL

HEAVY PRECIP

SVR TURBC

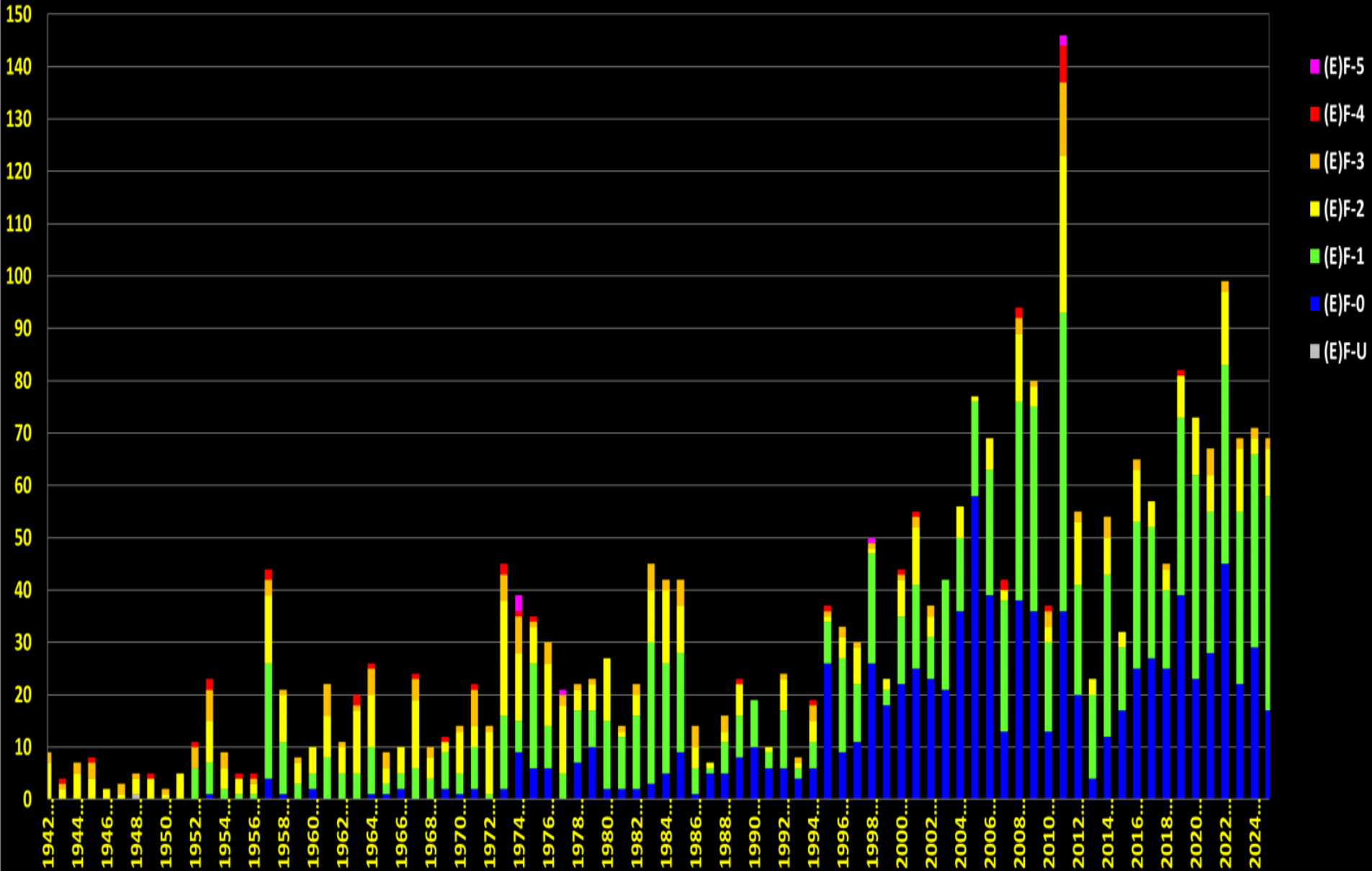
LIGHTNING

Turbulence

- Thermal turbulence in lowest levels of atmosphere

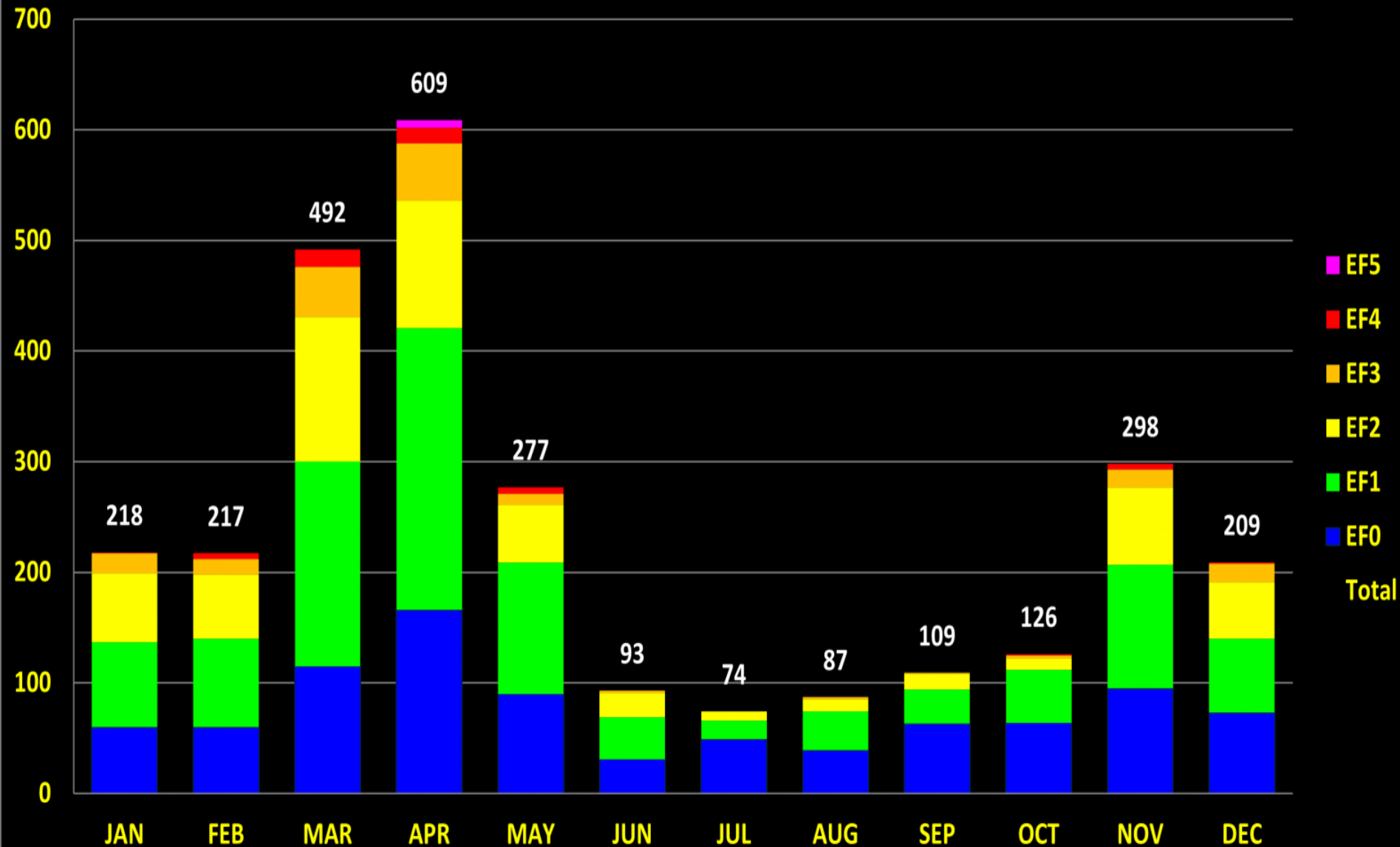
Alabama Tornadoes by Year

1942-2025



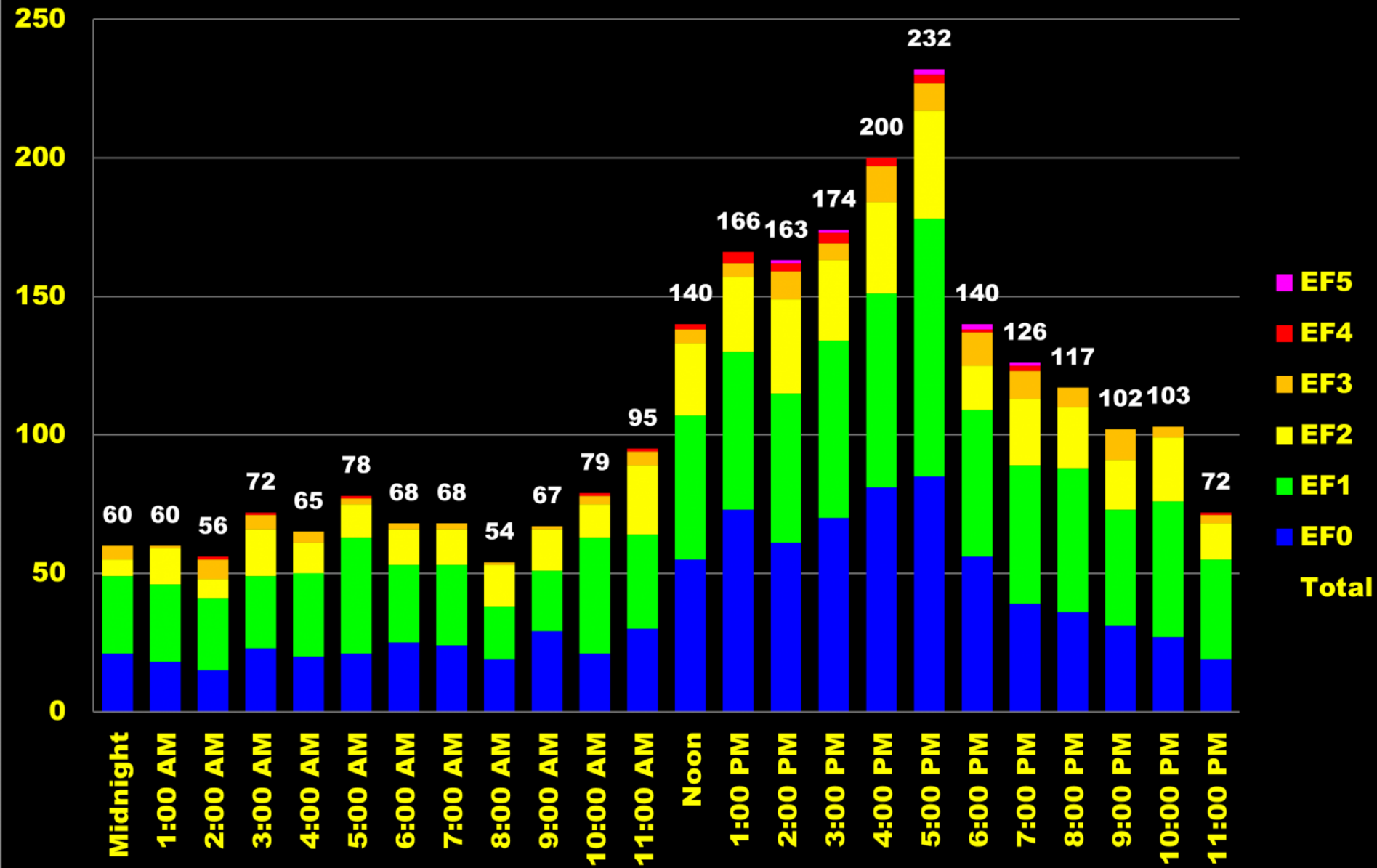
Alabama Tornadoes by Month

1925-2025



Alabama Tornadoes by Hour

1925-2025



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

HURRICANE FRANK 0445L													HURRICANE FRANK 0445L																	
BLUF Overall Impact to Installation / Aircraft: R Wind R Rain R Tornadoes R G< 30 KT WINDS< 2" RAINNO TORNADOES A30-44 KT WINDS2-4" RAIN R> 50 KT WINDS> 4" RAINTORNADOES IMPACTS TO INSTALLATION/AIRCRAFT (96 HRS) THE STORM WILL IMPACT FT RUCKER:THURSDAY EVENING - SATURDAY MORNING IMPACTS TO FT RUCKER:DAMAGING WINDS, HEAVY RAIN/FLOODING, TORNADOES ONSET/DURATION OF ≥ 34 KT WINDS:FRIDAY @ 15L - SATURDAY - 11L ONSET/DURATION OF ≥ 50 KT WINDS:FRIDAY @ 19L - SATURDAY - 02L ONSET/DURATION OF ≥ 64 KT WINDS: MAX WINDS EXPECTED:55KTS WITH GUSTS TO 70KTS TIME OF MAX WINDS:FRIDAY @ 22L ONSET OF PRECIPITATION:THURSDAY EVENING TOTAL RAINFALL EXPECTED:6 - 8 INCHES CLOSEST POINT OF APPROACH:80 MILES KOZR M T W T F S S AM PM N1 AM PM N1 AM PM N1 AM PM N1 CIG VIS WINDS TURBC TS G G G G G G R G R R R G G G G G G G G G G G G G G G G G G G G G G G R R G G G G G G G G G G G G G													7-DAY FLY-AWAY																	
													NORTH			M			T			W			T			F	S	S
																AM	PM	N1	AM	PM	N1	AM	PM	N1	AM	PM	N1			
													CIG			G	G	G	G	G	G	G	G	G	G	G	G	R	R	
													VIS			G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
													WINDS			G	G	G	G	G	G	G	G	G	G	G	G	G	A	A
													TURBC			G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
TS			G	G	G	G	G	G	G	G	G	G	G	G	G	G	G													
WEST			M			T			W			T			F	S	S													
			AM	PM	N1	AM	PM	N1	AM	PM	N1	AM	PM	N1																
CIG			G	G	G	G	G	G	G	G	G	G	G	R	R	G														
VIS			G	G	G	G	G	G	G	G	G	G	G	G	G	G	G													
WINDS			G	G	G	G	G	G	G	G	G	G	G	G	A	A	G													
TURBC			G	G	G	G	G	G	G	G	G	G	G	G	G	G	G													
TS			G	G	G	G	G	G	G	G	G	G	G	G	G	G	G													
EAST			M			T			W			T			F	S	S													
			AM	PM	N1	AM	PM	N1	AM	PM	N1	AM	PM	N1																
CIG			G	G	G	G	G	G	G	G	G	G	G	G	G	G	R													
VIS			G	G	G	G	G	G	G	G	G	G	G	G	G	G	G													
WINDS			G	G	G	G	G	G	G	G	G	G	G	G	G	G	A													
TURBC			G	G	G	G	G	G	G	G	G	G	G	G	G	G	G													
TS			G	G	G	G	G	G	G	G	G	G	G	G	G	G	G													
			G			A			R																					
			CIG ≥ 1000 VIS ≥ 3 SM WINDS < 20 KTS NO TURBC NO TS			ISOLD IFR CIG ISOLD IFR VIS WINDS 20-29 KTS LGT TURBC ISOLD TS			PREDOM IFR CIG PREDOM IFR VIS WINDS ≥ 30 KTS ≥ MDT TURBC MDT/SVR TS																					

Weather Happens.....

Are **YOU** prepared?

Contact Us

- <https://home.army.mil/rucker/index.php/weather>
- “Like” us on Facebook (ftruckerwx)
- “Follow” us on X and IG (ftruckerwx)
- 134.1 (PMSV) or 348.8 (WIF)
- cindy.l.howell.civ@army.mil (5-8142)
- amanda.l.dixon14.civ@army.mil (5-8272)
- fortruckerweather@army.mil (5-8385/8397)