

Spring & Summer Weather Hazards



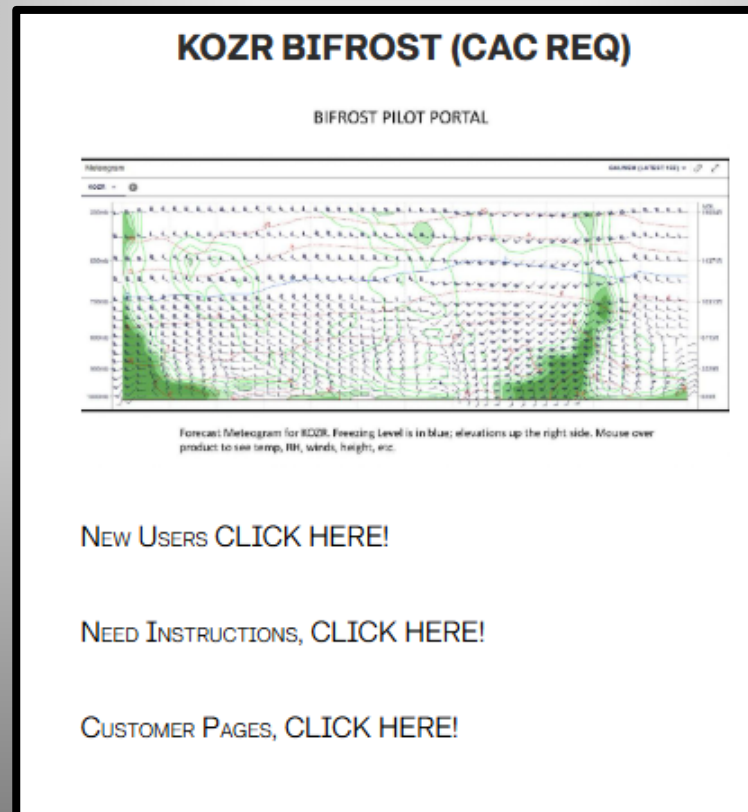
OL-C, 18th Combat Wx Squadron

Overview

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

What's New

- BIFROST has replaced JET
- 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>

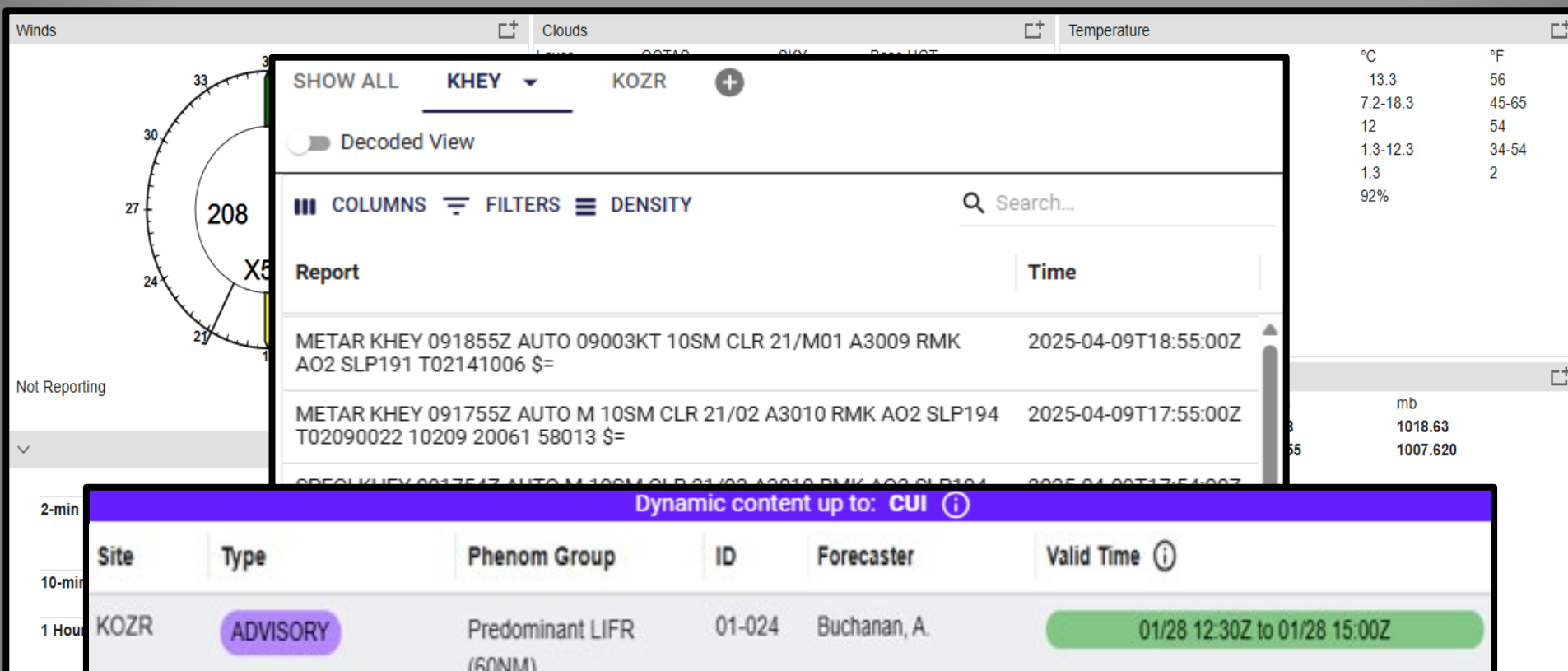
KOZR Customers: <https://bifrost.afweather.mil/ui/dashboard/0cee3748-7470-44ff-959b-8544c4594196>

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>

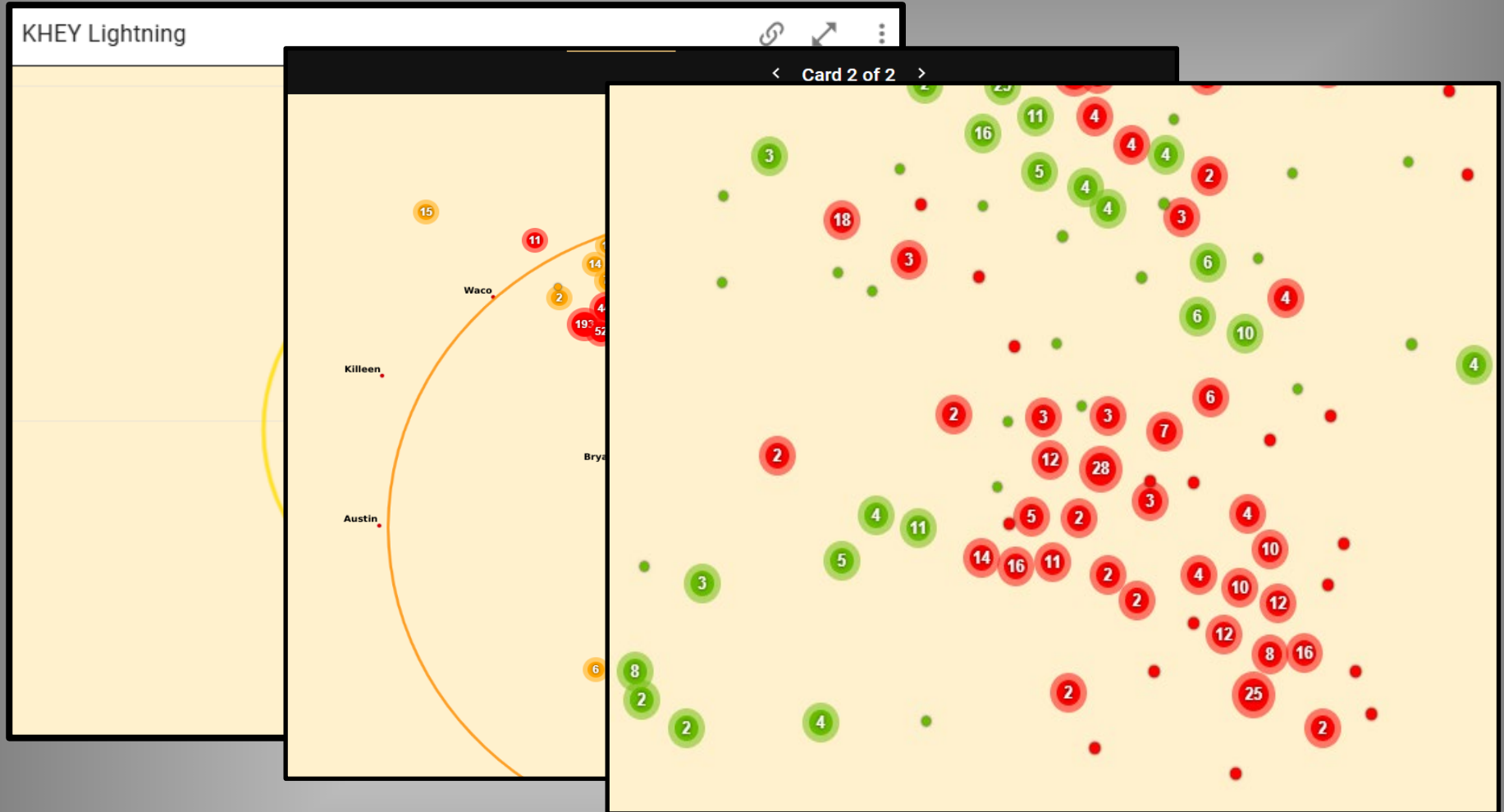
Base Fields Lightning: <https://bifrost.afweather.mil/ui/dashboard/a611b818-bfaa-4915-a53a-64745982f516>

What's New



Dynamic content up to: CUI ⓘ					
Site	Type	Phenom Group	ID	Forecaster	Valid Time ⓘ
KOZR	ADVISORY	Predominant LIFR (60NM)	01-024	Buchanan, A.	01/28 12:30Z to 01/28 15:00Z
KOZR	ADVISORY	Predominant LIFR (15NM)	01-025	Buchanan, A.	01/28 12:30Z to 01/28 15:00Z
KOZR	ADVISORY	MEF AMD 1	01-026	Buchanan, A.	01/28 12:30Z to 01/28 19:00Z
KOZR	ADVISORY	MEF AMD 2	01-027	Buchanan, A.	01/28 13:30Z to 01/28 19:00Z

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.

What's New																	
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 CEILING - LOCATION NRN AREAS 050				20. MINIMUM CEILING - LOCATION NRN AREAS 015				21. MINIMUM FREEZING LVL - LOCATION NRN AREAS 015																																																							
PT AGL				PT MSL				PT AGL				PT MSL																																																			
22. THUNDERSTORMS								23. TURBULENCE (ACFT < 12,500 LBS)								24. ICING								25. PRECIPITATION																																							
0		NONE		AREA		LINE		LIGHT		NONE		IN CLEAR		IN CLOUD		0		NONE		WIND		WIND		LIGHT		NONE		02		RAIN		SNOW		PELLET																													
ISOLATED 1-2%								X								X								TRACE								LIGHT																															
FEW 3 - 10%								MODERATE								OCNL								OCNL								LIGHT								MODERATE																							
SCATTERED 10 - 40%								SEVERE																MODERATE								HEAVY																															
NUMEROUS > 40%								EXTREME																SEVERE								SHOWERS																															
MAIL, SEV TURB & ICING, HEAVY PRECP, LIGHTNING & WIND SHEAR EXPECTED IN NEAR PLANE ALTITUDES								X 5FC-100								JBL								JBL								FREEZING																															
LOCATION								LOCATION								X ALL AREAS								LOCATION								LOCATION																															

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

<https://acoeweather.tradoc.army.mil/PRODUCT%20DROP/AM.PDF>

<https://acoeweather.tradoc.army.mil/PRODUCT%20DROP/AM-2.PDF>

<https://acoeweather.tradoc.army.mil/PRODUCT%20DROP/PM.PDF>

<https://acoeweather.tradoc.army.mil/PRODUCT%20DROP/PM-2.PDF>

<https://acoeweather.tradoc.army.mil/PRODUCT%20DROP/N1.PDF>

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%)
----------	--	-----------------

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: 27 MAR - 02 APR

	M			T			W			T			F	S	S
	AM	PM	N1	AM	PM	N1	AM	PM	N1	AM	PM	N1			
Ceiling	Red	Green	Red	Red	Green	Yellow	Green	Green	Green	Green	Green	Green	Yellow	Red	Green
Visibility	Green	Green	Green	Green	Green	Yellow	Green	Green	Green	Green	Green	Green	Green	Green	Green
Surface Wind	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Yellow	Yellow	Green
Turbulence	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Icing	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Thunderstorms	Green	Yellow	Green	Green	Yellow	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
High Temp	27			22			21			24			29	28	27
Low Temp	17			9			8			13			18	15	14

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

Prepared by: Cindy L Howell

Two more days of storms and IFR, and then we'll finally get a respite! A cold front has been stalled across our area for several days, which is why we've had such a stormy pattern. Today and tomorrow, it's more of the same. IFR conditions will improve in a couple of hours, and we'll see showers/TS fire up this afternoon, some of which could contain 30kt wind gusts and hail. IFR will set in by 03Z tonight. IFR continues tomorrow morning, and once again, Moderate TS are possible tomorrow PM. For tomorrow's N1, we'll see IFR conditions early but cigs should scatter out mid-period as the front finally clears the area. Wednesday and Thursday look great before more IFR moves in Friday. A late-week storm system will bring more IFR and rain to the area.

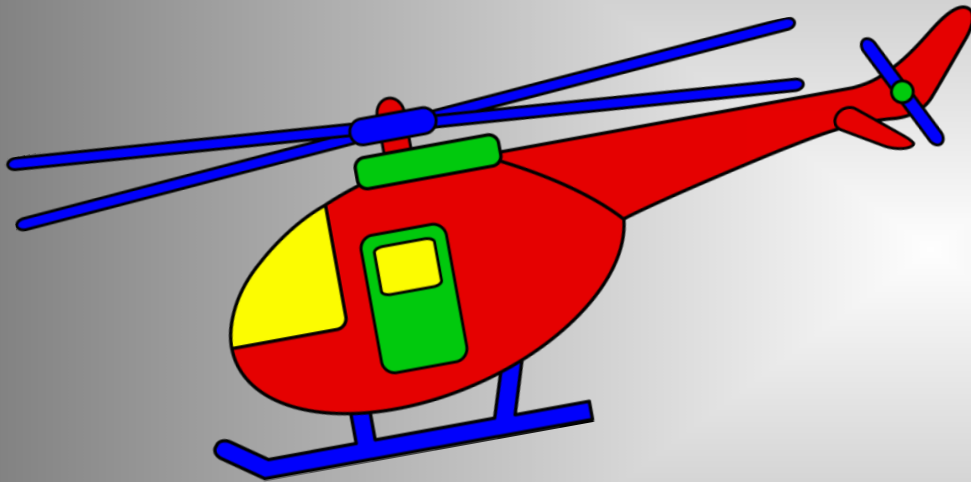
Services



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

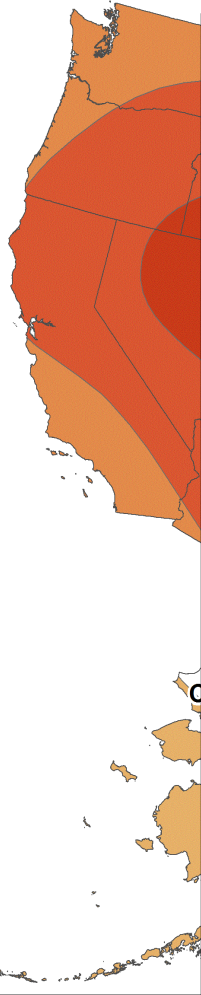
Looking Ahead J-J-A



Seasonal Temperature Outlook



Valid: Jun-Jul-Aug 2025



Equal Chances

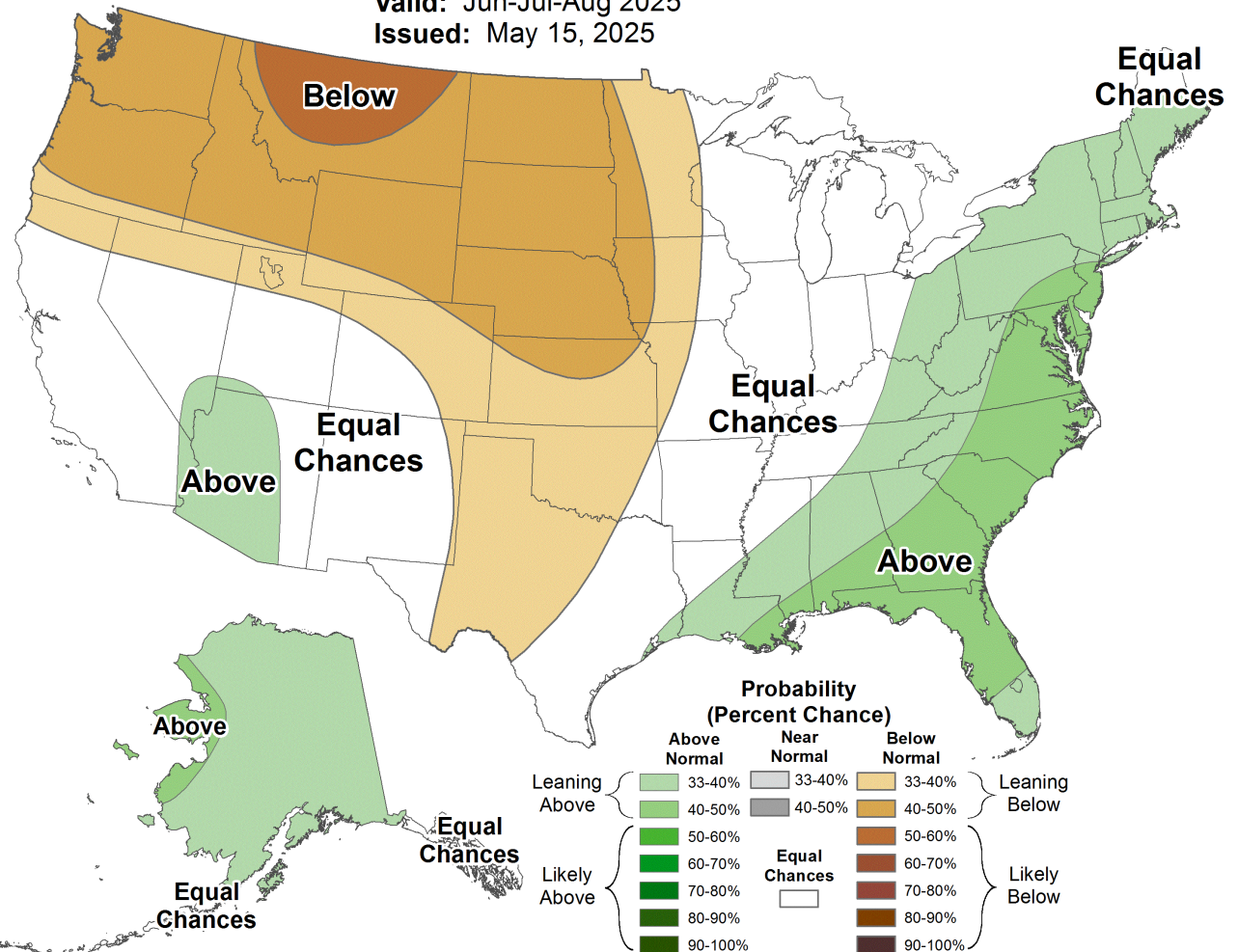


Seasonal Precipitation Outlook



Valid: Jun-Jul-Aug 2025

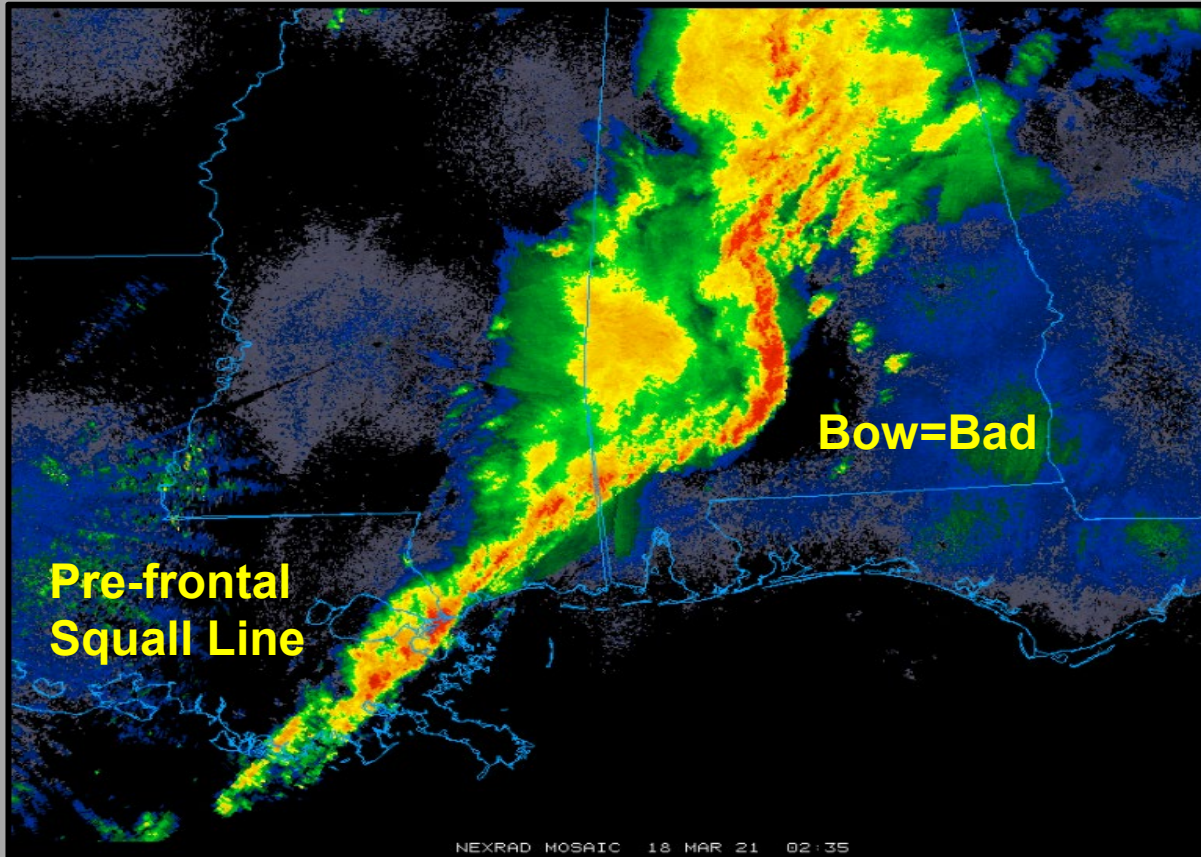
Issued: May 15, 2025



Seasonal Weather

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

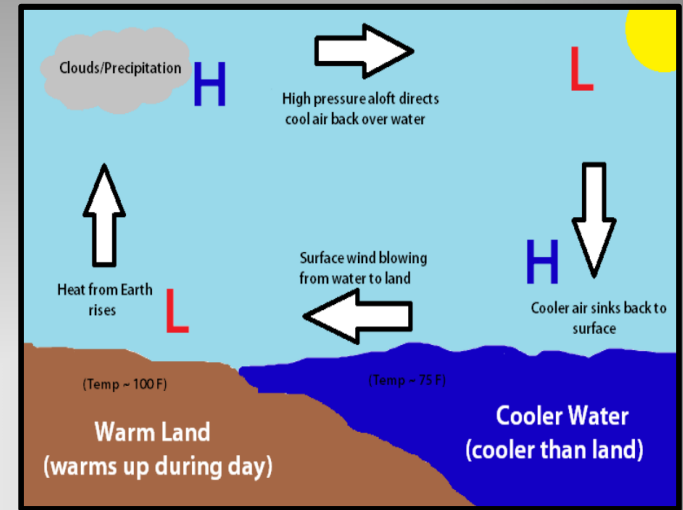
Spring Patterns



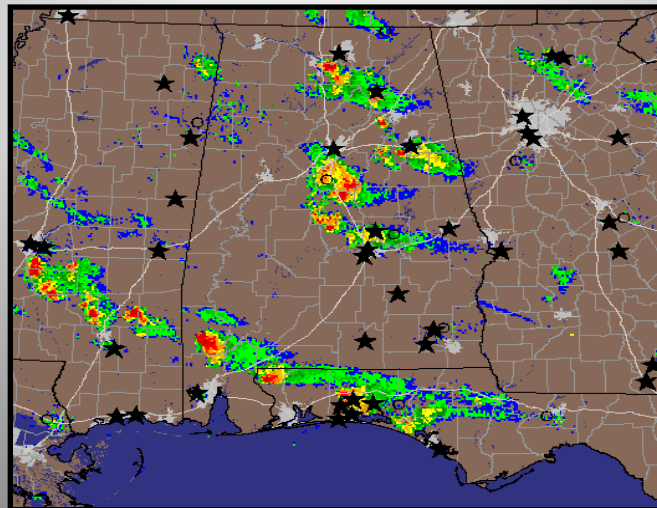
Summer Patterns



Bermuda High

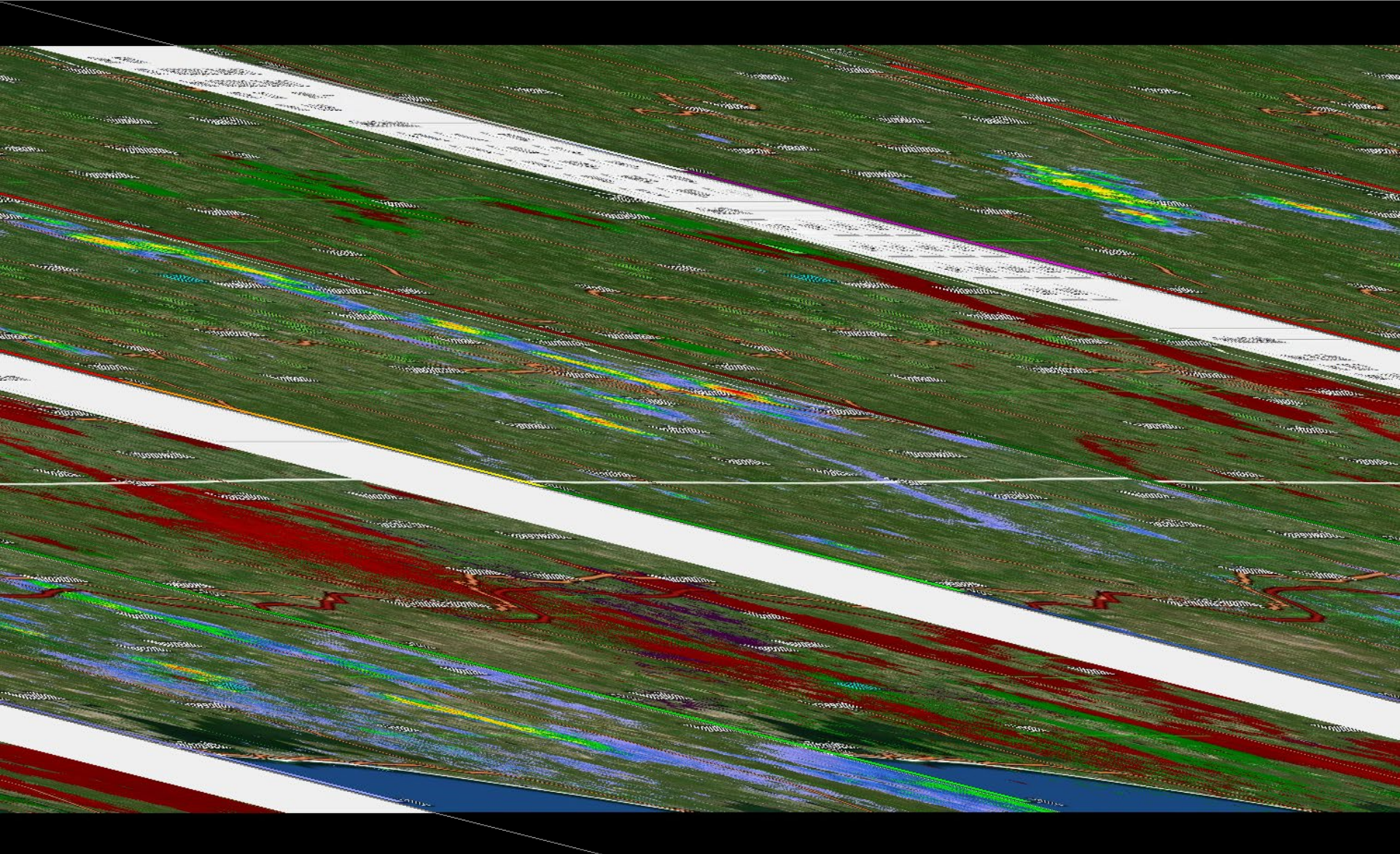


Sea Breeze



Airmass Thunderstorms

Interactions: Outflow + Merging Cells



7-Day Forecast 31.34N 85.72W x

forecast.weather.gov

KEOX Fort Rucker, AL - GR2Analyst

File View Site BR BV SRV NROT SW ZDR CC PHI KDP DERIVED Algorithms GIS Panels Windows Help

DBZ Hayneville Union Springs Midway Lumpkin Preston Plains Americus Leslie Smithville Fort Deposit Greenville Petrey Troy Banks Louisville Baker Hill Parrott Weston Dawson Shellman Cuthbert Coleman Fort Gaines Edison Morgan Albany Brantley Luverne Goshen Brundidge Clifton Abbeville Dozier Ozark Enterprise Headland Columbia Damascus Newton Camilla Andalusia Opp Kinston Clayhatchee Dalton Ashford Gordon Colquitt Pelham Samson Geneva Hartford Cottonwood Donalsonville Bainbridge Cairo Florala Graceville Malone Greenwood Marianna Attapulgus De Funiak Springs Bonifay Chipley Alford Altha Quincy Havana Niceville Vernon

92.7° 82.93 nm ND 7319 ft 31.212309 -84.101349 208 meters/pixel SAILS_1 Offline

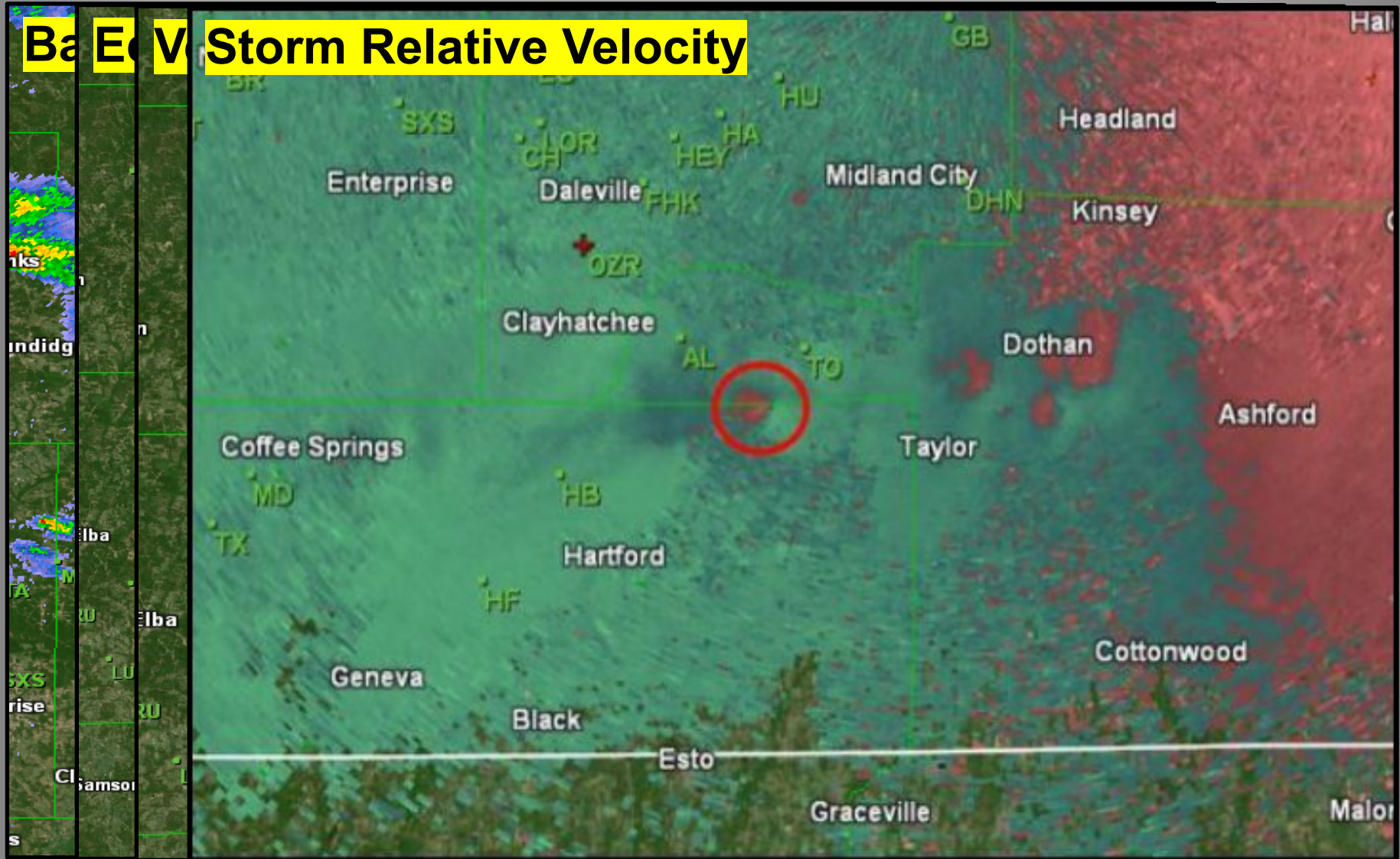
Saturday A 20 percent chance of showers and thunderstorms after 1pm. Sunny, with a high near 90. Northeast wind around 5 mph.

Saturday Night Partly cloudy, with a low around 68. North northeast wind around 5 mph.

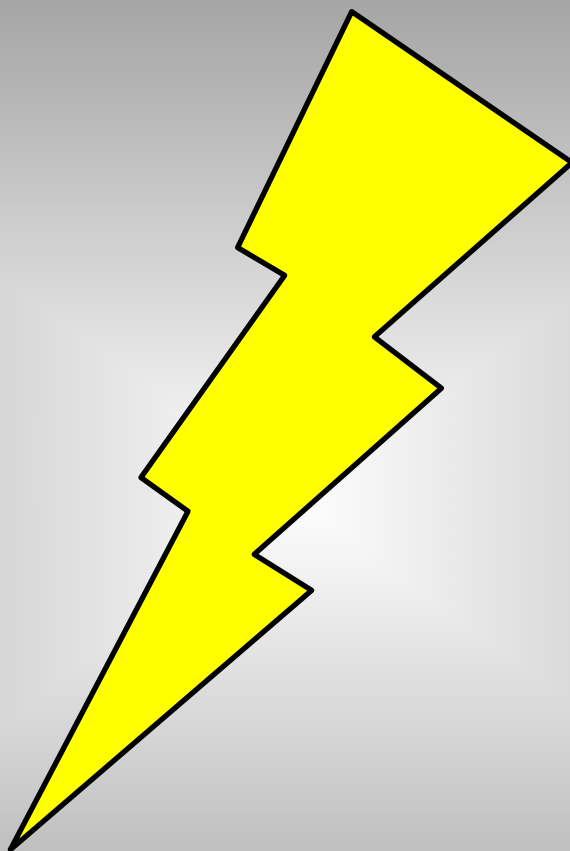
10:54 AM 6/3/2022

Radar 101

Base Echo Storm Relative Velocity



Thunderstorms



MICROBURSTS

SVR ICING

LLWS

HAIL

HEAVY PRECIP

SVR TURBC

LIGHTNING

Turbulence

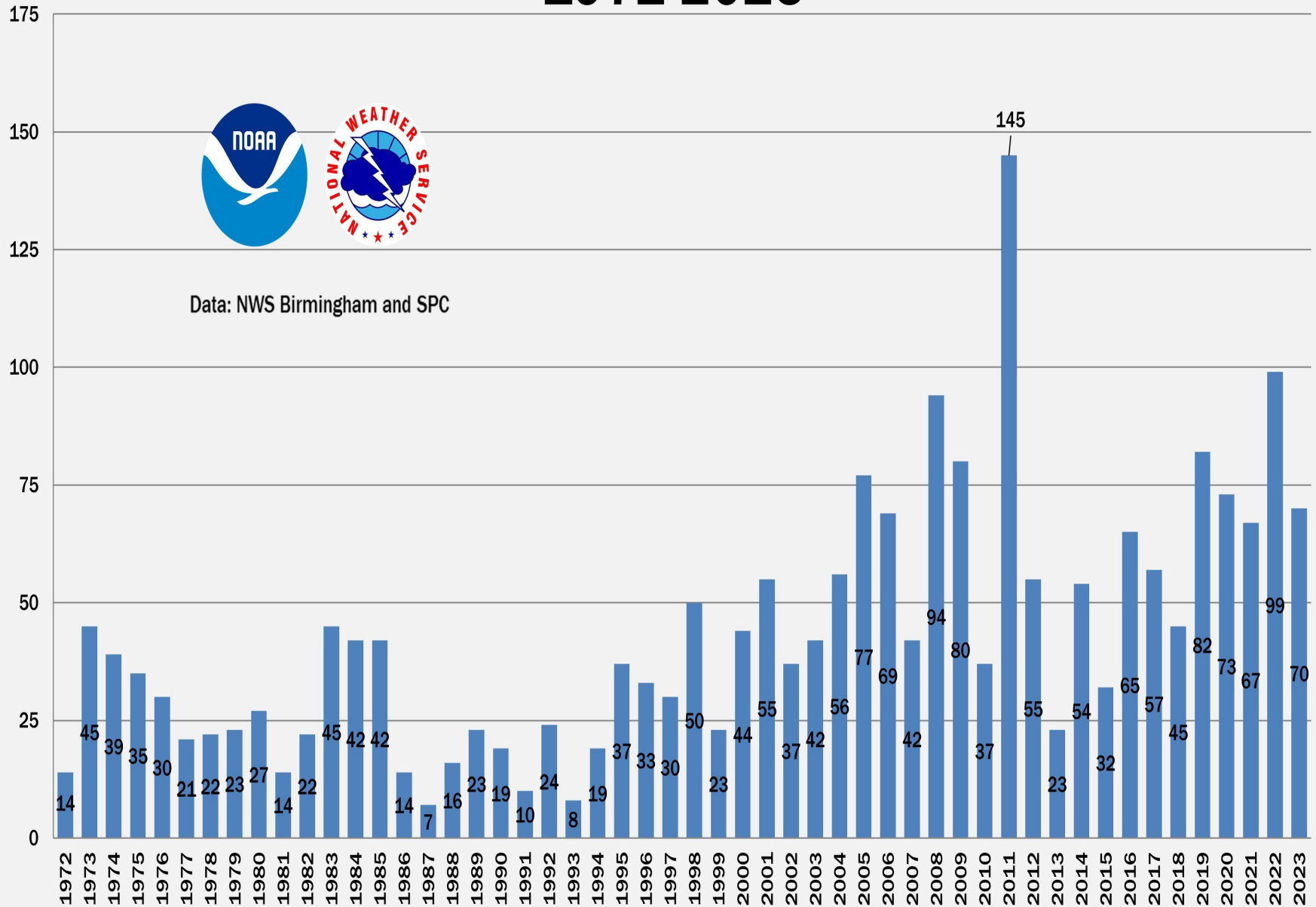
- Thermal turbulence in lowest levels of atmosphere

Alabama Tornadoes by Year

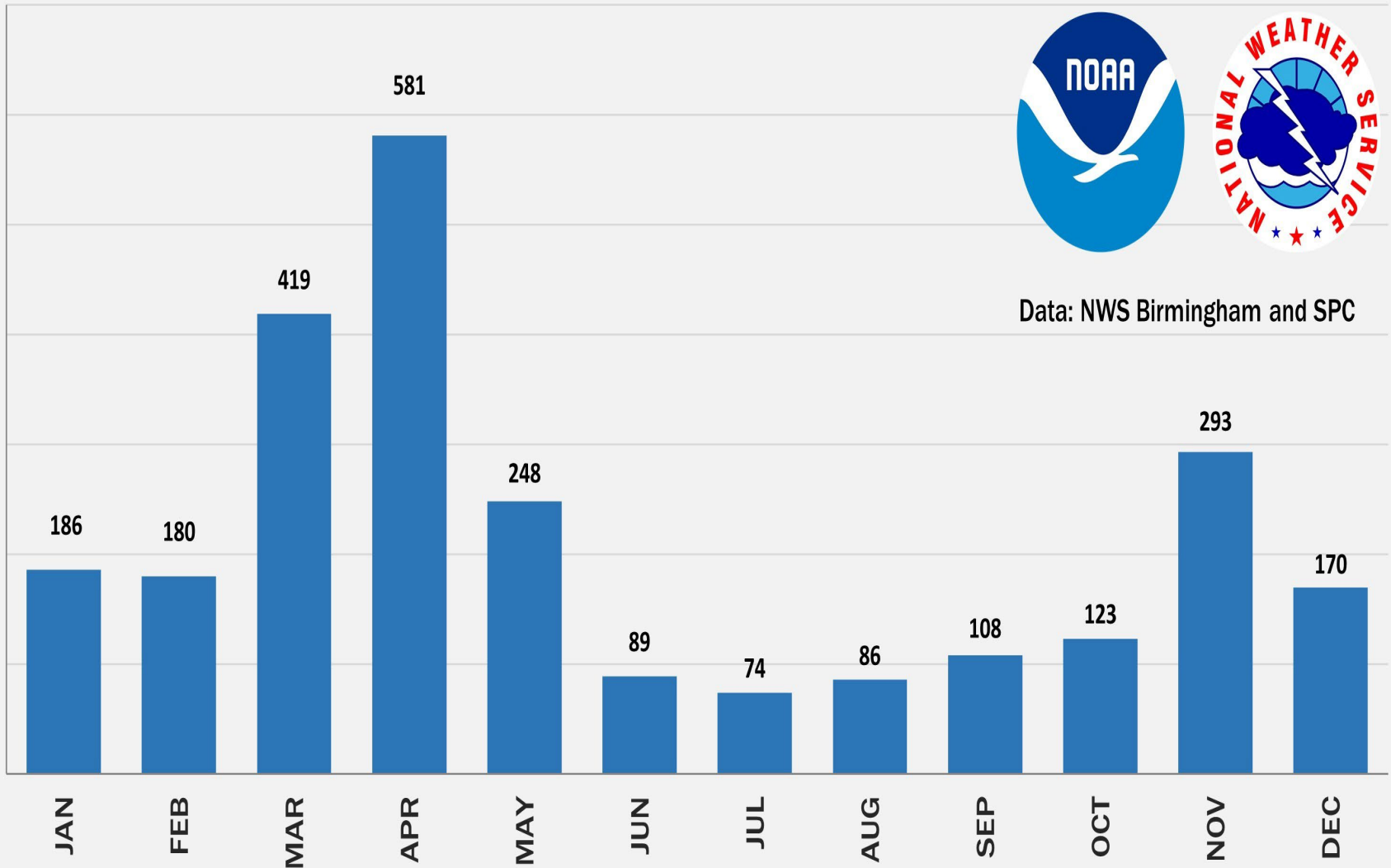
1972-2023



Data: NWS Birmingham and SPC



Alabama Tornadoes by Month 1950-2023

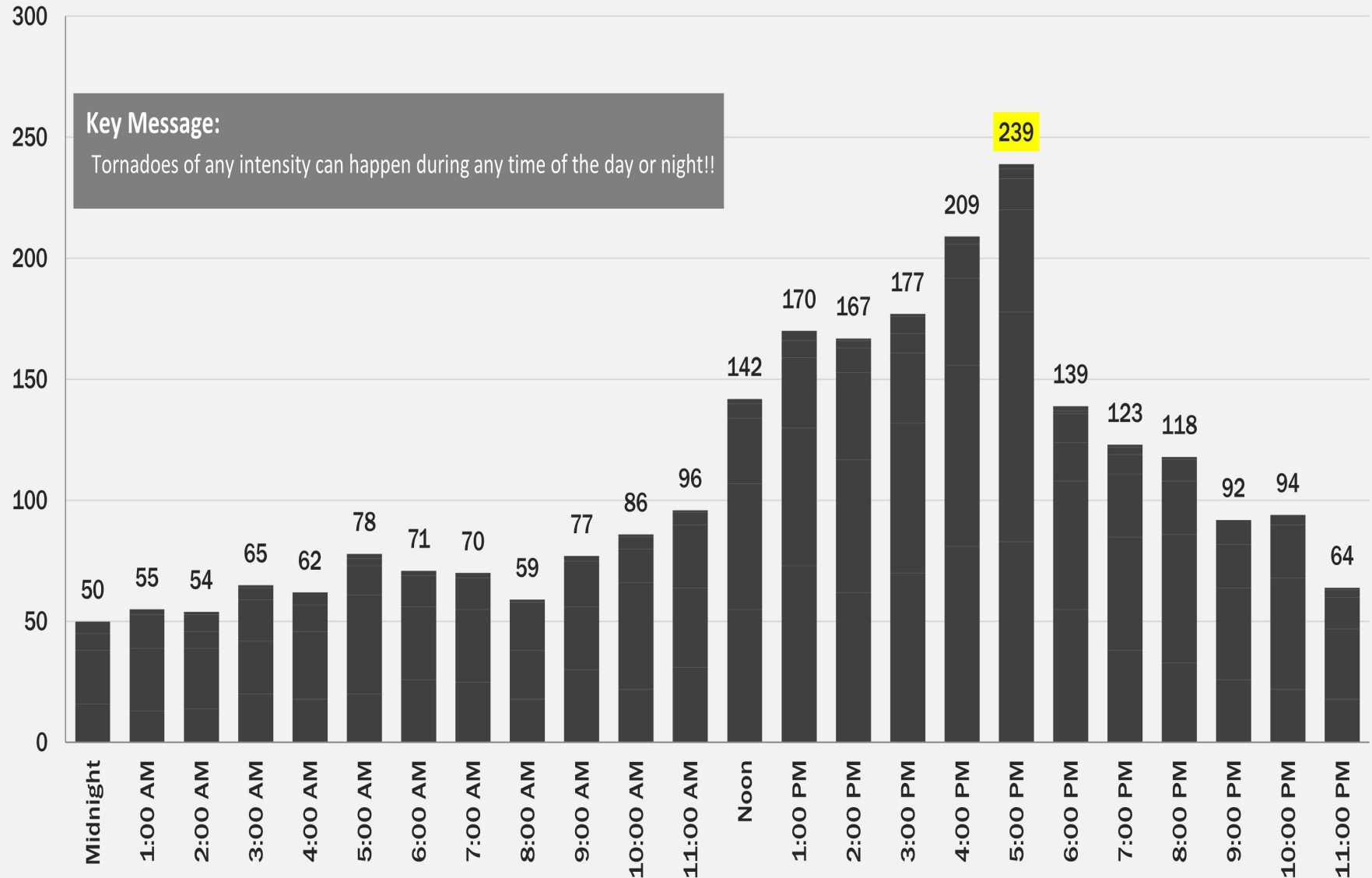




Alabama Tornadoes by Hour 1950-2023

Key Message:

Tornadoes of any intensity can happen during any time of the day or night!!



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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											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Hurricanes

	Avg	CSU	NOAA	2024
Named Storms	14	17	13-19	18
Hurricanes	7	9	6-10	11
Major Hurricanes	3	4	3-5	5

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)