Det 3, 18th Weather Squadron

TEMPESTA PRAECURSIO

Semi-Annual Weather Brief Spring - Summer 2018



Briefer: TSgt Douglas Spires Classification: UNCLASSIFIED

U.S. AIR FORCE







Weather Support

- Weather Webpages
 - Seasonal Weather
 - Monthly Averages
- Operational Impacts



OPERATIONS



Weather Station Operating Hours

- Hunter AAF: Now open 7 days/week
- Wright AAF: Mon Fri (0600L-2300L) (Closed weekends, holidays, and training days)

Standby and Severe Weather Team (SWAT) for Inclement weather when closed for both locations

For after hours briefing support please contact 26th OWS Flight Weather Briefing cell at: DSN: 331-2651/ 2652/ 2653 Comm: 318-529-2651/ 2652/ 2653



WEATHER BRIEFINGS



✓ Provide Mission Execution Forecasts (MEF) for local flights

✓ Provide 175-1 briefings via telephone, fax, email or in person

- ✓ 175-1 requests should be requested at least <u>2 hours</u> prior to delivery time or 3 ½ hours prior to take-off.
- ✓ Updates, not initial briefs, may be done on PMSV

For after hours briefing support contact 26th OWS Flight Weather Briefing cell at: DSN: 331-2651/2652/2653 Comm: 318-529-2651/2652/2653





✓ Pilot-to-Metro Service

PMSV

✓ UHF Frequency only

 ✓ Available during duty hours only

✓ HAAF - UHF: 309.0
 ✓ WAAF - UHF: 252.025







Go here → https://owsjet26.us.af.mil/portal/

Request a New Account.

US DEPARTMENT OF DEFENSE WARNING STATEMENT

You are accessing a U.S. Government (USG) Information System (IS) that is provided for USG-authorized use only.

By using this IS (which includes any device attached to this IS), you consent to the following conditions:

- The USG routinely intercepts and monitors communications on this IS for purposes including, but not limited to, penetration testing, COMSEC monitoring, network operations and defense, personnel misconduct (PM), law enforcement (LE), and counterintelligence (CI) investigations.
- At any time, the USG may inspect and seize data stored on this IS.
- Communications using, or data stored on, this IS are not private, are subject to routine monitoring, interception, and search, and may be disclosed or used for any USG-authorized purpose.
- This IS includes security measures (e.g., authentication and access controls) to protect USG interests-not for your personal benefit or privacy.
- Notwithstanding the above, using this IS does not constitute consent to PM, LE or CI investigative searching or monitoring of the content of privileged communications, or work product, related to personal representation or services by attorneys, psychotherapists, or clergy, and their assistants. Such communications and work product are private and confidential. See User Agreement for details.







Observations and Forecasts AOR Sensor Data Warnings Radar Imagery Lightning

Location ID	Valid Time	Roll- up	Raw Data	Last Hou
KDYS	221458Z	•	METAR KDYS 221458Z 18010KT 10SM CLR 31/19 A3012 RMK AO2A SLP146 T03080194 51008 \$	Decod Ray
KEND	221455Z	0	METAR KEND 221455Z 20012KT 10SM FEW200 29/20 A3004 RMK AO2A SLP158 50002	Decod Ray
	221455Z		KEND METAR 1455Z 19012KT 10SM FEW200 29/20 ALSTG 30.04 RMK AO2A FITS 96F 89F/67F PA +1196 DA +3383	
KFRI	221458Z	•	METAR KFRI 221458Z AUTO 22012KT 10SM CLR 33/21 A2997 RMK AO2 SLP134 T03270208 56001	Decod Ray
	221458Z		KFRI METAR 1458Z AUTO 22012KT 10SM CLR 33/21 ALSTG 29.97 RMK AO2 PA +1018 DA +3623	
KFSI	221458Z	•	METAR KFSI 221458Z COR 23009KT 10SM CLR 30/20 A3007 RMK AO2A SLP172 T03040201 50005 COR 1505	Decod Ray
	221458Z		KFSI METAR 1458Z COR 23009KT 105M CLR 30/20 ALSTG 30.07 RMK AO2A T03040201 PA +1050 DA +3315 COR 1505	



JET Registration

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User Registration. Complete all required (*) fields and IAW instructions below (Figure 2).

If all entries are valid, JET generates an account for you and sends an automated E-mail to the JET Administrator. The JET Administrator must approve the account before you can log into the JET Portal.

Enter the Initials* you intend to use (i.e., RS or RNS).

Enter **Preferred Username*** – The initials of your first and middle name followed by your last name (i.e., rnsmith).

Enter a Password* IAW the following rules:

Must be at least 15 characters in length.

stration
TOR, OU=PKI, OU=DoD, O=U.S. Government, C=US counts (provided)
T



JET Roles



Select the Certificate Action to take with your account—from the drop-down menu select **CAC – One Account**.

Preferred Role* - Use the drop-down menu and select "Operations"

	Preferred Role*:	(Select One)		0
Request Open Porta	al with IGD Display:			
	il Alert Notification:		LEAVE BLANK	
	ast Mission Alerts:			
	ved Mission Alerts:			
ŀ	Request Site Alerts:			
Work Phon	e Number(Comm)*:			
Work Pt	ione Number(DSN):			
Dissemination	Phone Dial String:			
Work Fa	ax Number(Comm):			
Work	Fax Number(DSN):			
Disseminat	on Fax Dial String:			
	Email*:			



JET continued



Select "Army" from the drop-down menu for **Branch of Service*** and select applicable **Rank*** from the dropdown menu.

Select Hunter AAF from the drop-down menu for **Primary Base/Post***.

Detachment personnel will add **Additional Base/Post*** Wright AAF

Enter "Operations" in the Primary Use*

Review all entries/selections and make any corrections. Once all mandatory entries/selections are made the "Submit"

button will no longer be grayed. Click on the "Submit" button.

The new account request is submitted for approval. Once a JET Administrator approves the new account, JET will send an automated E-mail noting the account is approved and you can log into your user account within the JET Portal using your CAC.

Branch of Service*:	(Select One)]	
Rank*:			
Primary Base/Post*:	(Select One)		Ø
Additional Base/Post:			
Unit/Squadron:			
Primary Use*:		*	
		Ŧ	
Submit	Cancel		

Mission Execution Forecast



			М	ISSI	DN EX	ECUTIO	ON FO	RECA	ST - H	UNTER	AAF /	FORT	STE	WAR	Г		
			NEF IS FC	RLOC						ST FLIGHT AF				TEWART R	ANGES		
1. DATE:	2	MEFI	SSUE: 3	AND:		CI - BR			AKEOF	F DATA / D	AILYS	UMMAR	ar in the second				
1404	_	130			0100		_		VIS		H	AZ:					
6. WEATHE	R ADVIS	DRIES	WATCHE	S / WARS								7. SURFA			MP / PRES / PA		
ADVIS	#04-	012 ⁻		CIG/	CRITE VIS < 1	000 FT / 35	M	@ K		N/SCHEDULE	D UFN	TME 1300Z	DIR 270	KT QUST	+18 °C	ALSTG 29,87	PA +88 F1
ADVIS	#04-					000FT/35			SVN VT			1500Z	310	~~	+22 °C		+41 F1
									VT	; T(2	1700Z	330	09	+25 °C	29.90	+61 F1
									VT			1900Z		10 15	+26 °C	29.87	+88 FT
									VT			2100Z 2300Z		10 15 07	+27 °C +26 °C	29.85	+107 F
									VT			2300Z 0100Z	VRB		+26 °C +23 °C	29.87	
							PARTI	I - ENRO		ISSION D		01002	TRD.	00	+20 0	20.01	
8. FLIGHT LE				9. FLIG		VEATHER / MI	NIMUMS								SOLAR/LUNA		
LVL FL005:	DIR 300	кт 10	16 °C			DS @ FLT D		YES C		IN & OUT (1		NO (<1)		SYSTEM HE:		IMPACT GOOD	
FL010:	300		+15 °C	OBSC		NS @ FLT L		YES	_	NO	F	_	_	UHF:		6000	
FL020:	310		+14 °C			TY @ FLT I			DUE TO	D:				GPS:		6000	
FL030:	310		+14 °C				CEL	ING / TOPS / P	REEZING LEVE	L				ID TIME(s)	r	NIA	
FL040:	310		+13 °C	FRZ	Z L VL:	13.00	0 FT	LOCA	TION:		LFA		LO	CATION:		NIA	_
FL050: FL060:	310 310	15	+12 °C +11 °C											507 49 41	INAR DATA (ALL	THEFT	0413
FL080:	300	20	+08 °C	_											551	MR-	0256
FL100:	300	20	+05 °C	MIN	I CIG:	400	FТ	LOCA	TION:		LFA		-		647	MS:	1426
FL150:	300	25	-04 °C	·.·.					.	••••••	·····	· · · · · · · ·	۰.	SS: 1	959 IL	LUM	
FL200:	310	35	-15 °C	MAX	TOPS:	18,00	0 FT	1004	TION:		LFA		EE	ENT: 2			40.6%
FL250:	320	45	-27 °C			LENCE (CAT			13. ICING							2359):	29.6%
11. THUND			N/A	_		TIME:		IA		TIME:	N/	۵		ID TIME		FCST	
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FEW (3-					MODERAT	E .	1		LIGHT				MODER	TE			
	ERED (16-				SEVERE			Ц	MODERATI		н		HEAVY			н	
	ious (>45				EXTREME		1		SEVERE		Ш	\square	SHOWE		_		
LIGHTNING A	NAL INVING TURNALING LICING, MARY PROCEEDING, LEVELS LEVELS LEVELS																
	AD VID SH THUS		A HEADY PREC	CINERS.	LEVELS	N	۵		LEVELS	N/A			PREEZO	••••••	· . · . Ц		
LOCATIO	NO VIEIC BH THURS		A HARIN PROC SPECTED IN A MIL	CINERS	LOCATIO	N/	A		LEVELS	N/A			LOCA	· · · · · · · · ·	······	:-:-:	
LOCATIO	ND WIND BH THUNE		I, HILLY PREC SPECTED IN A MIL	ENMA			A		LOCATIO	N N/A			: · ː · ː ·	· · · · · · · · ·	N/A		
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	NO VINO BH THUNG	N/A	IS. VALID T	IME (2)	LOCATIO	N/	A PART	SM) / WX	LOCATIO	N N/A	ST	000	LOCAT	· · · · · · · · ·		20.	MIN ALT
	N VINC IN	N/A	IS. VALID T	IME (2) 2-14	LOCATIO	N/	A PART		LOCATIO	N N/A FORECA	ST	OVC	LOCA1	· · · · · · · · ·		20.	
15. FOST A	N VINC IN	N/A	IS. VALUD T 12 TEMP	IME (2) 2-14	LOCATIO 17.5/	N/	A PAR1 18.VIS (SM) / WX	LOCATIO	N N/A FORECA	ST s		LOCA1	TION		20.	MIN ALT
15. FOST A		N/A	IS. VALUD T 12 TEMP	IME (2) 2-14 O 12-	LOCATIO 17.5/	N/ C WIND (KTS) 27006	A PAR1 18.VIS (5M)/WX 7	LOCATIO	N N/A FORECA	ST s	SCT	LOCA1	TION		20.	MIN ALT 29.87
15. FCST A HUNTI TEST		N/A	IS. VALUD T 12 TEMP	IME (2) 2-14 O 12-	LOCATIO 17.5/	N/ C WIND (KTS) 27006	A PAR1 18.VIS (5M)/WX 7	LOCATIO	N N/A FORECA	ST s	SCT	LOCA1	TION		20.	MIN ALT 29.87
15. FCST A HUNTI TEST AR	REA REA ER A/ & FLIGH EAS	N/A	IS. VALUD T 12 TEMP	IME (2) 2-14 O 12-	LOCATIO 17.5/	N/ C WIND (KTS) 27006	A PAR1 18.VIS (5M)/WX 7	LOCATIO	N N/A FORECA	ST s	SCT	LOCA1	TION		20.	MIN ALT 29.87
15. FCST A HUNTI TEST AR	REA ER A/ & FLIGH	N/A	IS. VALUD T 12 TEMP	IME (2) 2-14 O 12-	LOCATIO 17.5/	N/ C WIND (KTS) 27006	A PAR1 18.VIS (5M)/WX 7	LOCATIO	N N/A FORECA	ST s	SCT	LOCA1	TION		20.	MIN ALT 29.87
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HUNTI TEST AR	REA ER A/ & FLIGH EAS B	N/A AF	AC VALUE T 12 TEMP 14 14 12 TEMP	IME (2) 2-14 0 12- 1-01 2-14 0 12- 0 12-	17.87 -14 -14 -14	N/ C WIND (KTS) 27006 3010G15 27006	A PARI I ILVIS	5M) / WX 7 7 6 / BR	LOCATIO	N N/A FORECA	ST S	SCT CT010	004 004 SCT0 005	TION 35			MIN ALT 29.87 29.85 29.86
HUNTI TEST AR	REA REA ER A/ & FLIGH EAS B C HT A/	N/A AF HT	AC VALUE T 12 TEMP 14 14 12 TEMP	IME (2) 2-14 O 12- 1-01 2-14	17.87 -14 -14 -14	N/ C WIND (KTS) 27006 3010G15	A PARI I ILVIS	^{5M) / WX} 7 7	LOCATIO	N N/A FORECA	ST S	SCT CT010	004 004 SCT0 005	TION 35			MIN ALT 29.87 29.85
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HUNTI TEST AR WRIGI FT. ST	REA ER A/ & FLIGH EAS B C HT A/ & EWAI	N/A AF HT	AC VALUE T 12 TEMP 14 14 12 TEMP	IME (2) 2-14 0 12- 1-01 2-14 0 12- 0 12-	17.87 -14 -14 -14	N/ C WIND (KTS) 27006 3010G15 27006	A PARI I ILVIS	5M) / WX 7 7 6 / BR	LOCATIO	N N/A FORECA	ST S	SCT CT010	004 004 SCT0 005	TION 35			MIN ALT 29.87 29.85 29.86
HUNTI TEST AR AR WRIGI FT. ST RAN	REA ER A/ & FLIGH EAS B C HT A/ & EWAI	N/A AF HT RT	AC VALUE T 12 TEMP 14 14 12 TEMP	IME (2) 2-14 0 12- 1-01 2-14 0 12- 0 12-	17.87 -14 -14 -14	N/ C WIND (KTS) 27006 3010G15 27006	A PARI I ILVIS	5M) / WX 7 7 6 / BR	LOCATIO	N N/A FORECA	ST S	SCT CT010	004 004 SCT0 005	TION 35			MIN ALT 29.87 29.85 29.86
HUNTI TEST AR AR WRIGI FT. ST RAN	REA REA ER A/ & FLIGH EAS B C HT A/ & EWAI	N/A AF HT RT	AC VALUE T 12 TEMP 14 14 12 TEMP	IME (2) 2-14 0 12- 1-01 2-14 0 12- 0 12-	17.87 -14 -14 -14	N/ C WIND (XTB) 27006 3010G15 27006 3010G15		54()/WX 7 7 6 / BR 7 / NSW		N N/A	ST SI	OVC SCTI	004 004 SCT0 005	TION 35			MIN ALT 29.87 29.85 29.86
III. FCST A HUNTI TEST AR A WRIGI FT. ST RAN R30	REA REA ER A/A & FLIGH EAS B C HT A/A & E EWAH GES 05A-E	N/A AF HT RT	IC WALLD T 12 TEMP 14 12 TEMP 14	2-14 0 12- 1-01 2-14 0 12- 1-01	17.67 17.67 -14 -14 -14 -14	W N/ C WIND (KTS) 27006 3010G15 27006 3010G15 8010G15		54)/WX 7 7 6 / BR 7 / NSW		N NIA FORECA ELOUD LAVER	ST S(OVC SCTI OVC SCTI CT010	004 004 8CT0 005 8CT0	TION 35			MIN ALT 29.87 29.85 29.86
III. FCST A HUNTI TEST AR A WRIGI FT. ST RAM R300	REA REA REA REA REA REA REAS B C HT AA & EWAR NGES D5A E	N/A AF HT RT	14. VALID 17 17 17 18. VALID 17 12 17 14. VALID 17 12 12 12 12 12 12	11ME (2) 2-14 0 12- 1-01 2-14 0 12- 1-01	17.81 -14 -14 -14 -14 -14 -22.	N N/ C WIND (KTS) 27006 3010G15 27006 3010G15 3010G15 РАК МАХ DA	A PARI SLUID (SLUID (SLU	54) / WX 7 7 6 / BR 7 / NSW 7 / NSW	LOCATIO XI AREA 18. 	N NIA FORECA cloud Laver MINS / Rt MINS / Rt MINS / Rt	ST S S S S (MARK (IONE NUMI 16775027	OVC SCTI OVC SCTI CT010	004 004 8CT0 005 8CT0	35 35			MIN ALT 29.87 29.85 29.86
HUNTI TEST AR AR FT. ST RAN R30(21. MAX / III)	REA REA REA REA REA REA REA REA REA REA	N/A AF HT RT	10 C C C C C C C C C C C C C C C C C C C	IME (2) 2-14 0 12- 1-01 2-14 0 12- 1-01 0 12- 1-01 () () () () () () () () () () () () ()	17.57 -14 -14 -14 -14 -14 -14 -14 -14 -14 -14	N // C WIND (x15) 27006 3010G15 27006 3010G15 3010G15 РАК МАХ DA	A PART	54)/WX 7 7 6 / BR 7 / NSW 7 / NSW 29.85	ICCATIO	N NIA FOREGA ELOUD LAVER MINS / RC MINS / RC M	SI SI SI SI SI SI SI SI SI SI SI SI SI S	SCTI CT010 S OVC SCTI CT010 S SERIS (CMCI PMSV. PMSV.	004 004 004 005 005 8CT0	35 35	N/A KSWA KLWA	20. 1	29.85 29.85 29.85 29.86 29.85
III. FCST A HUNTI TEST AR A WRIGI FT. ST RAM R300	REA REA REA REA REA REA REA REA REA REA	N/A AF HT RT	10 C C C C C C C C C C C C C C C C C C C	IME (2) 2-14 0 12- 1-01 2-14 0 12- 1-01 0 12- 1-01 () () () () () () () () () () () () ()	17.57 -14 -14 -14 -14 -14 -14 -14 -14 -14 -14	N // C WIND (x15) 27006 3010G15 27006 3010G15 3010G15 РАК МАХ DA		54) / WX 7 7 6 / BR 7 / NSW 20.85 1000000000000000000000000000000000000	ICCATIO XITAREA 19. IGMAX IS.CO KSW RNNE RAI	N N/A FORECA cloud Laver MINS / RE MI (Radio TH CSTR: 3153 CSTR: 3153	ST ST ST ST ST ST ST ST ST ST ST ST ST S	SCTI CT010 S OVC SCTI CT010 S SERIS (CMCI PMSV. PMSV.	004 004 004 005 005 8CT0	35 35	N/A KSWA KLWA	20. 1	29.85 29.85 29.85
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HISSION EXECUTION PORECAST, DET 3, 19WS - HUNTER ANF / PORT STEWART, GA - JANUARY 2012 (ELECTRONICALLY GENERATED)



Mission Execution Forecast



EXTENDED MISSION EXECUTION FORECAST							
				200 NM OF KSVN/KLHV			
M. THUNDERSTORMS		35. TURBULENCE (CAT II A		AREA HAZARDS	FORECAST	37. PRECIPITATION	
VALID TIME:		VALID TIME:	11/13-12/01	VALID TIME:	11/13-12/01	VALID TIME:	FCST
NONE X AR		X NONE IN CLEA	R IN CLOUD	NONE RIME	MIXED CLEAR	NONE RAIN DRIZZ	
(ISOLATED (1-2%):		LIGHT		TRACE		LIGHT	
FEW (3-15%):	MT280	MODERATE		цент Х	X	MODERATE X	
SCATTERED (16-45%	4): 	SEVERE		MODERATE		HEAVY	
NUMEROUS (>45%):		EXTREME		SEVERE		SHOWERS X	
LIGHTNENG AND WIND SHEAR S THUNDERST	S EXPECTED IN AND MEAR	N/A		LEVELS 160-2	270		1
LOCATION		LOCATION		LOCATION		LOCATION	
ALL SEC	TORS	N/A		ALL SEC	TORS	ALL SEC	TORS
				D TEXT AREA FO			
38. FCST AREA	39. VALID TIME (Z)	40.SFC WIND(KTS)	41.VIS (SM) / WX	42. CLOUD LAYER			43.MIN ALT
NORTH	13-23 TEMPO 19-	24006 23 VRB10G20	7 4/TSRA		BKN0		29.85
SECTOR	23-01	29006	4/13KA		SCT		29.83
SECTOR	23-01	23000			301	010	20.00
	13-24	23006	7		FEW050 SCT	010 SCT150	29.86
WEST/	TEMPO 18-		3/TSRA		BKN0		
CENTRAL	00-01	01006	7		BKN	100	29.83
SECTOR							
	-						
	13-18	2306	7	1	BKN	035	29.88
SOUTH	18-01	25009	7		BKN	035	29.80
SECTOR	TEMPO19-2	22	3/TSRA		OVC0	25CB	





Planning Products



	UNCLASSIFIED									
		HUN	TER AAF	FT STEW	ART - 4 D	AY FORE	CAST			
			AS OF 06	00 HRS LOCAL	Wednesday,	April 23, 2014				
	Wed 23	Apr 14	Thu 24	Apr 14	Fri 25	Apr 14	Sat 26 Apr 14			
	06L-12L	12L-00L	00L-12L	12L-00L	00L-12L	12L-00L	00L-12L	12L-00L		
WINDS	N 09KTS	E 09KTS	E 09KTS	SE 09KTS	S 09KTS	SW 09KTS	SW 09KTS	SW 09KTS		
MIN CEILINGS	NO CIG	NO CIG	NO CIG	NO CIG	1800 FT	NO CIG	NO CIG	NO CIG		
MIN VISIBILITY	7 MILES	7 MILES	7 MILES	7 MILES	5 MILES	7 MILES	7 MILES	7 MILES		
PRESENT WEATHER	CLEAR	CLEAR	CLEAR	PARTLY CLOUDY	ISOLD SHOWERS	PARTLY CLOUDY	PARTLY CLOUDY	PARTLY CLOUDY		
TEMPERATURE	LO: 60F/16C	HI: 79F/26C	LO: 60F/16C	HI: 77F/25C	LO: 63F/17C	HI: 81F/27C	LO: 65F/18C	HI: 82F/28C		
WC/HI		HI: 80F/27C		HI: 79F/26C		HI: 82F/28C		HI: 83F/28C		
ROTARY										
FIXED WING					С					
GROUND OPS										
UAV					С					
	SR: 0647	SS: 1959	SR: 0646	SS: 2000	SR: 0644	SS: 2001	SR: 0643	SS: 2002		
LIGHT DATA	BMNT: 0551	EENT: 2055	BMNT: 0550	EENT: 2056	BMNT: 0549	EENT: 2057	BMNT: 0548	EENT: 2058		
	MR: 0256	MS: 1426	MR: 0338	MS: 1531	MR: 0417	MS: 1634	MR: 0456	MS: 1738		
	ILLUM:	40.6%	ILLUM:	29.6%	ILLUM:	19.7%	ILLUM:	11.4%		
				C-CE	ILING					



SWO PRODUCT PAGE



https://sps.stewart.army.mil/usaf/SWO/default.aspx

👬 Staff Weather	Officer	J Like
Home		Search this site
Pictures images	Operations and Intelligence Weather Input Type Name Modified By	Det 3, 18 WS
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Recycle Bin	22 JUL 16 4-DAY KSVN IN KEW Langford, Brittanie M SrA MIL Add document	Last Name First Name E-mail Address BELCHER JOHN john.r.belcher18.mil@mail.mil



WEATHER WATCHES, WARNINGS AND ADVISORIES



Weather Advisory - Alerts supported units to weather conditions that could affect their operations.

<u>Weather Watch -</u> Alert supported units of <u>potential</u> for hazardous weather for which they must take protective measures.

<u>Weather Warning -</u> Alert supported units to <u>existing</u> <u>or imminent</u> weather conditions that pose a hazard to life or property.



CAB Hangaring Recommendation Memo





DEPARTMENT OF THE AIR FORCE DET. 3, 18TH WEATHER SQUADRON (ACC) HUNTER AAF, GEORGIA

17 April 2014

MEMORANDUM FOR 3rd CAB

FROM: DET 3, 18TH WEATHER SQUADRON

SUBJECT: Aircraft Hangar Recommendation for Severe Weather.

<u>No Significant weather</u> is expected that requires the hangaring of aircraft this weekend. For today, expect mostly cloudy skies conditions for the entire period. Winds will be from the northeast around 10 knots with an occasional gust to 15 knots and a high temperature in the upper 60s. Friday mornings low will be 55F. For Friday, expect continued cloudy conditions with rain showers during the entire period. Winds will be out of the northeast at 12 knots and a high temperature in the low 60s. Saturday Mornings low will be 54F. On Saturday expect mostly cloudy conditions in the morning with some isolated rain showers becoming partly cloudy in the afternoon. Winds will be from the northeast at 12 knots. Low and high temperatures of 54F and 66F are forecasted. For Sunday, look for partly cloudy conditions to persist through the day with no precipitation expected. Winds will be from the north around 12 knots. Low and high temperatures of 55F and 71F are forecasted for Sunday.

- Hunter AAF Weather Station will close on 17 Apr 2014 at 2100L (18/0100Z) and reopen on 21 Apr 2014 at 2200L (22/0200Z). Wright AAF Weather Station will close on 17 Apr 2014 at 2300L (18/0300Z) and reopen on 22 Apr 2014 at 0600L (22/1000Z).
- The following individual will be on standby for severe weather, failure of long-line or local automation dissemination of KSVN & KLHW observations into the JET system, and runway changes for Hunter AAF.

17 Apr 2100L - 21 Apr 2200L (EST): SSgt Ellen Goza Cell: (501) 304-3136

The following individual is the supervisor of the severe weather action team. Contact this individual only if you are unable to contact the designated standby individual.

17 Apr 2100L - 21 Apr 2200L (EST): MSgt Tobias Manzanares Cell: (719) 250-1806

 If there are any questions, please contact me at DSN 729-4930 / Comm: (912) 315-4930 or Cell: (719) 250-1806.

> //Signed// TOBIAS F. MANZANARES, MSgt, USAF Section Chief, Aviation Weather Operations



SEASONAL AVERAGES



WINTER - SPRING:

- Faster moving cold fronts
- Increased chance of in-line thunderstorms
- Highest potential for severe weather

SUMMER - FALL:

- Decreased frequency of cold fronts
- Weather systems mostly tropical in nature
- Largest concentration of air mass thunderstorms



100-

80-

60-

50-

40-

30-

20-

10-

70-22

90-Ma

HUNTER AAF AND FT STEWART WINTER-SPRING CLIMATOLOGY

70-

60-

50-

40-

30-

20-

10-



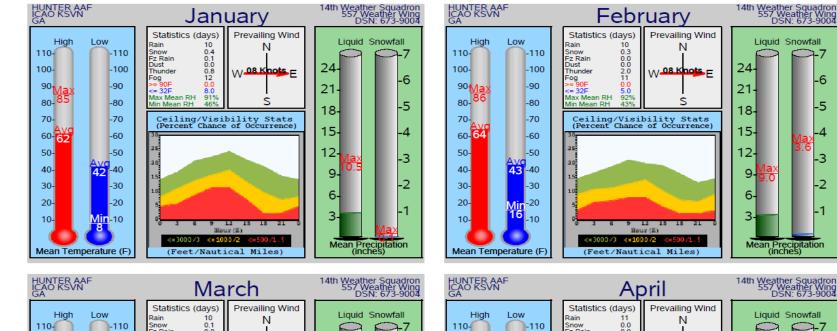
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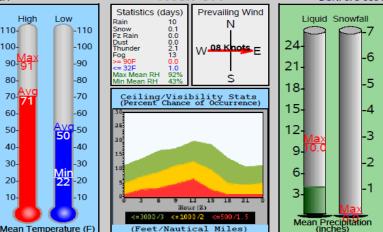
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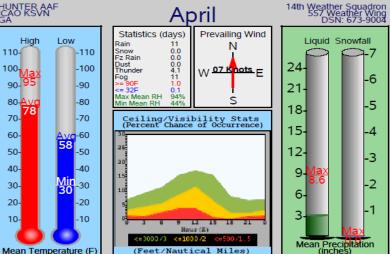
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HUNTER AAF AND FT STEWART **SPRING-SUMMER CLIMATOLOGY**



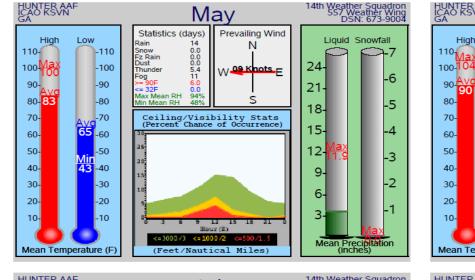
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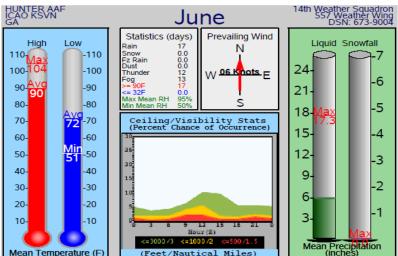
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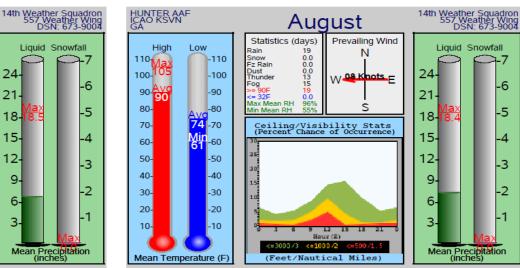
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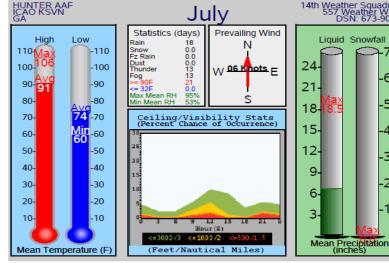
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49

-40

-30

-10

Min-20

Mean Temperature (F)

15

10

1.2

Hour (Z)

(Feet/Nautical Miles)

<= 10

40-

30-

20-

10-

HUNTER AAF AND FT STEWART SUMMER-FALL CLIMATOLOGY



-3

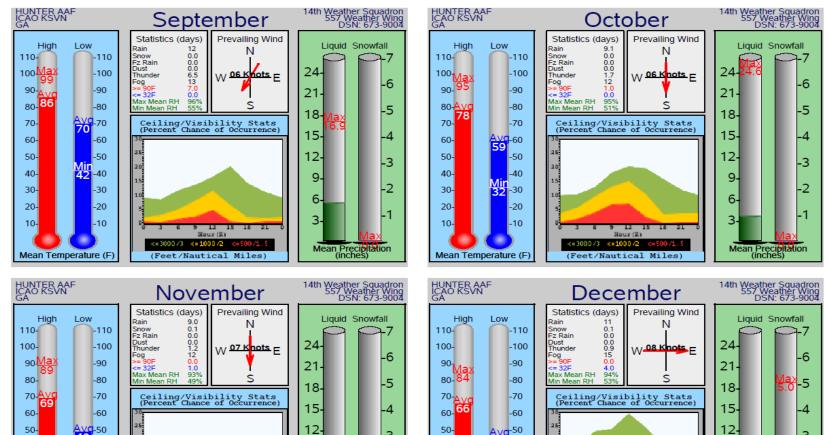
-2

9-

6

3

Mean Precipitation (inches)



-3

-2

9.

6-

3

Mean Precipitation (inches)

20

15

10

1.2

Hour (Z)

(Feet/Nautical Miles)

<=10

47 -40

Min

Mean Temperature (F)

-30

-20

10

40-

30-

20-

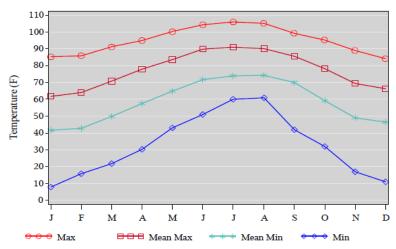
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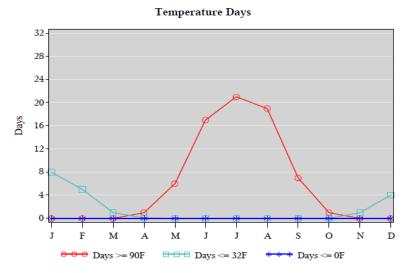


HUNTER AAF AND FT STEWART MONTHLY CLIMATOLOGY

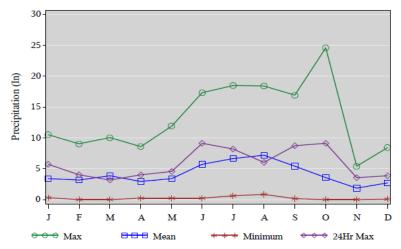


Monthly Temperature

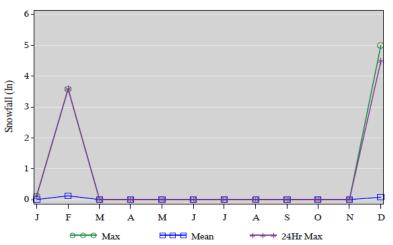








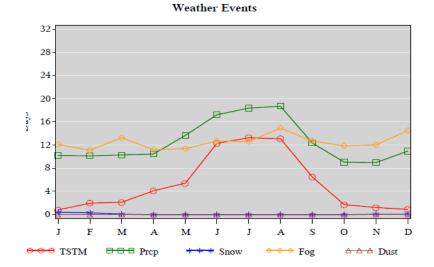


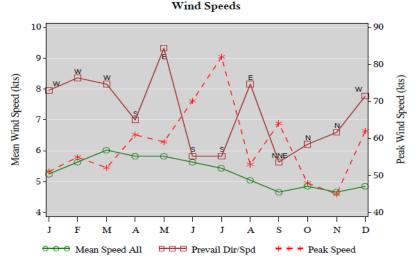


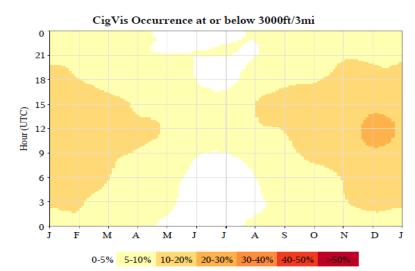


HUNTER AAF AND FT STEWART CLIMATOLOGY OCCURANCE

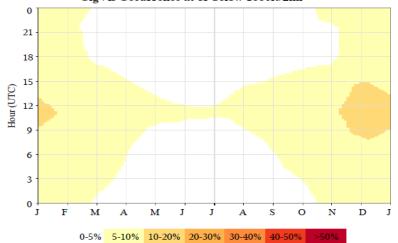








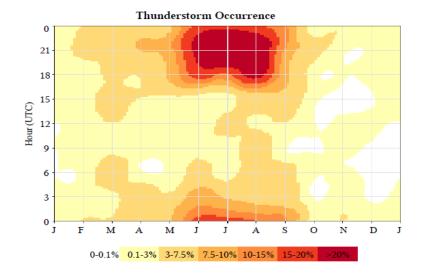
CigVis Occurrence at or below 1000ft/2mi

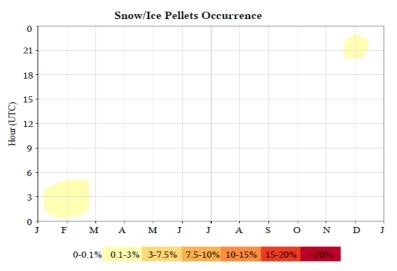


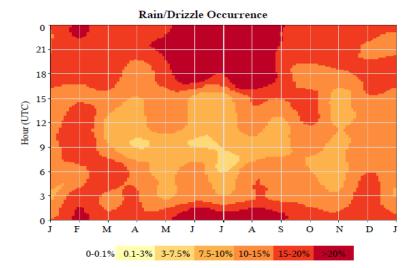


HUNTER AAF AND FT STEWART HOURLY CLIMATOLOGY

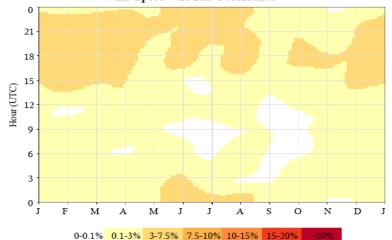








Wind Speed > 25 Kts Occurrence





OPERATIONAL IMPACTS



SPRING-SUMMER

- Thunderstorms
- ✓Icing
- ✓Turbulence
- ✓Tornadic activity
- Hurricane / Tropical Storms



THUNDERSTORMS



CAUTION: When a weather forecaster indicates "Thunderstorm," it implies that <u>Hail, Severe Turbulence, Mixed Icing,</u> <u>Heavy Precipitation, Lightning & Low</u> <u>Level Wind Shear</u> are present <u>in</u> and within <u>25nm</u> of the Thunderstorm



THUNDERSTORM HAZARDS



- Lightning:
 - Causes aircraft damage
 - Flash Blindness & Temporary Hearing Loss
 - Electrical Shock and Minor Burns
 - Most often occurs:

Within 5,000' of the Freezing Level -or In LIGHT precipitation -or In LIGHT or NEGLIGABLE Turbulence

Microburst:

– Preferred method for avoiding a microburst... don't fly under or near a thunderstorm!!



THUNDERSTORM HAZARDS



- 🗸 Hail
 - Damages aircraft (1/2 inch or greater)
- Turbulence
 - Most severe in strong updrafts and downdrafts
- Icing
 - Freezing Level can drop by 10,000 feet in stronger downdrafts
- Low Level Wind Shear

 Can expand (outflow boundary) to as much as 20NM from the storms outside boundary







Increases the weight of the aircraft

- Decreases lifting surface efficiency
- Loss of engine power
- Destroys the efficiency of the airfoil by altering its shape (for wings or propellers)

 Effects on helicopters potentially more severe than fixed-wing because of relatively slow cruising speeds—aerodynamic effects are greatly exaggerated by icing and altered aerodynamic effects make control unpredictable



ICING TYPES



✓ Rime

- -Milky, bumpy coating
- -Usually from stable precipitation
- ✓ Clear
 - -Clear, smooth coating
 - -From cumuliform/freezing precipitation

✓ Mixed

-Combination of the above



TURBULENCE



- During the summer there is a decrease in strong winds from the West and North therefore influence from mechanical TURBC and frontal TURBC decreases
- Frictional effects normally limited to first
 3,000-4,000 feet
- Thermal TURBC increases throughout the season because of increasingly warmer temperatures



TURBULENCE



Turbulence

✓increase in thermal turbulence (Heating)
 ✓decrease in mechanical turbulence (CF)

 All forecasts (MEF/4 day, etc) are set for CAT II aircraft

Any hazards on MEF will be re-calculated by ½ a category (example):

CAT II LGT = CAT I LGT OCNL MOD turb

 All Flight Weather Briefs (Locals, 175-1) will be specific to each aircraft



TORNADIC ACTIVITY



Mainly occur during April/May but can occur during any time

Avoiding thunderstorms will assist you in avoiding tornadoes

"Weather's not important 'til it's important – then it's too late ... "

Lt Col Bill Aggrella

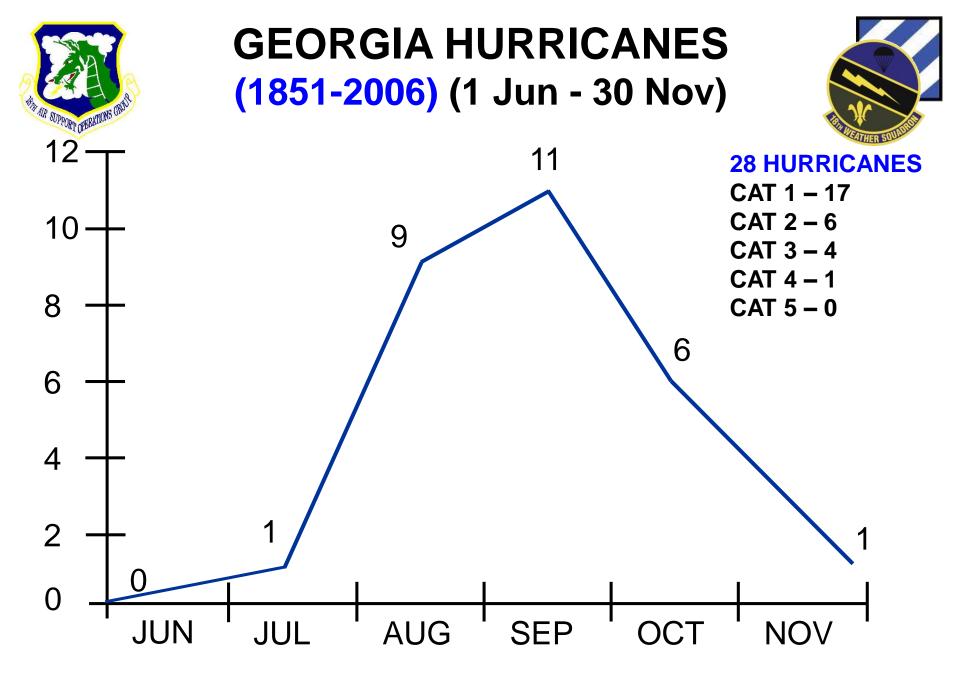


HURRICANE ACTIVITY



- Atlantic Season: Begins June 1; Ends 30
 November
- All Warnings and Advisories pertaining to Tropical Storm/Hurricane activity will be provided to the DoD by the National Hurricane Center







TROPICAL SYSTEMS



- Tropical <u>Disturbance</u>: A moving area of thunderstorms is in the tropics.
- **Tropical <u>Depression</u>**: An area of low pressure, rotary circulation of clouds and winds up to **38 mph** are identified.
- Tropical <u>Storm</u>: A storm characterized by counterclockwise circulation of clouds and winds 39-74 mph are brewing, and system is given a name.
- Hurricane: Tropical storm has graduated with intensity, and sustained <u>winds exceeding 74 mph</u>. System continues with same name.
- Major Hurricane: Category III, IV, or V.



HURRICANE CATEGORIES



Saffir-Simpson Scale

CATEGORY	PRESSURE (millibar)	WIND (MPH)	STORM SURGE (ft)
1	>980	74-95	4-5
2	965-979	96-110	6-8
3	945-964	111-130	9-12
4	920-944	131-155	13-18
5	<920	>155	18+



NHC WATCHES AND WARNINGS



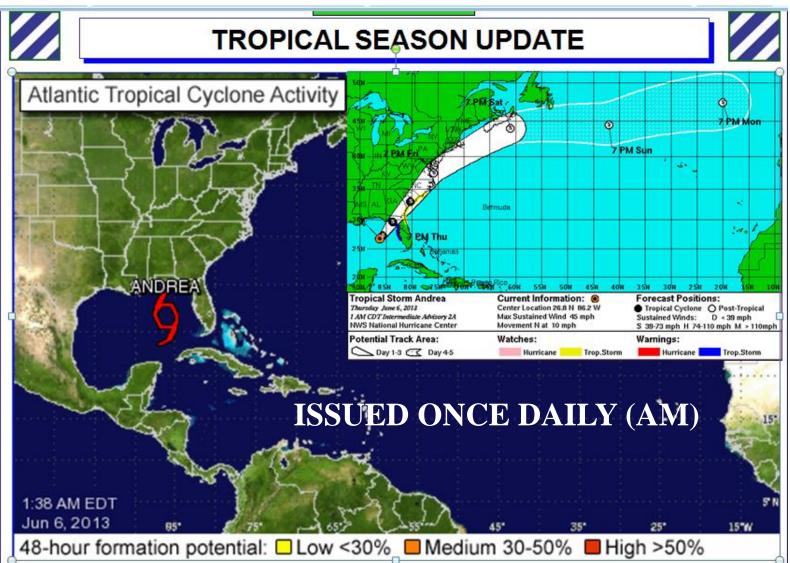
• <u>Hurricane Watch:</u> An announcement for specific coastal areas that hurricane conditions are possible within 36 hours.

• <u>Hurricane Warning</u>: A warning that sustained winds 64 kt (74 mph or 119 km/hr) or higher associated with a hurricane are expected in a specified coastal area in 24 hours or less.



TROPICAL UPDATE SLIDE

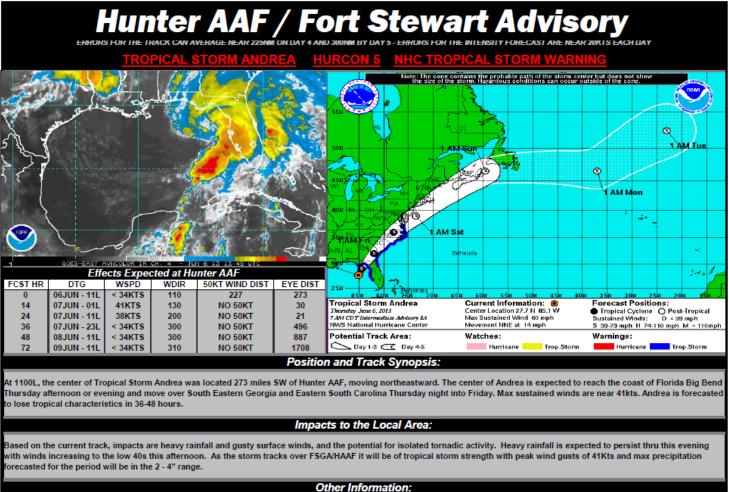






HURRICANE UPDATE SLIDE





The Staff Weather Office will continue to closely monitor the track of Tropical Storm Andrea. Next update at 1715L.

48-72 HOUR FORECAST ERROR CAN BE AS GREAT AS 300NM LEFT/RIGHT OF TRACK - THIS INFORMATION IS FOR PLANNING PURPOSES ONLY

Issued every 6 hours once an update from NHC has been received.





Any Questions?