

# *Det 3, 18th Weather Squadron*

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*TEMPESTA PRAECURSIO*

## **Semi-Annual Weather Brief Fall/Winter 2018**



**U.S. AIR FORCE**





# OVERVIEW



Weather Support  
Weather Webpage  
Seasonal Averages  
Seasonal Weather  
Operational Impacts



# OPERATIONS



## *Weather Station Operating Hours*

Hunter AAF: 24X5 except holiday's

Wright AAF: Mon-Fri (0600L-2200L)

(Closed weekends, holidays)

**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 HOMEPAGE



<https://sps13.stewart.army.mil/USAF/SWO/DEFAULT.ASPX>

**Staff Weather Officer** Fort Stewart/HAAF SharePoint Services

Home

**Operations and Intelligence Weather Input**

Type	Name	Modified By
	OI Weather Input 17 NOV 2017	<input type="checkbox"/> Keller, Seth J A1C

Add document

**Exercise Support**

Type	Name	Modified By
There are no items to show in this view of the "Exercise Support" document library. To add a new item, click "Add document".		

Add document

**MEF**

Type	Name	Modified By
	17 NOV UAS MEF	<input type="checkbox"/> Ahern, James B TSgt MIL
	17 NOV 17 06Z MEF	<input type="checkbox"/> Moore, Jeremy B TSgt MIL

Add document

**5 Day Forecast**

Type	Name	Modified By
	17 NOV 17 5-DAY KSVN	<input type="checkbox"/> Keller, Seth J A1C

Add document



# WEATHER HOMEPAGE



<https://home.army.mil/stewart/index.php/units/tenant-units/weather>

 MENU 



SEARCH 

MEF

MEF UAS

5-DAY FORECAST

Fort Stewart Weather / Wright AAF (KLHW)

HUNTER AAF (KSVN)

EN ROUTE HAZARDS

Hurricane/Tropical Storm / DoD Weather

KLHW SENSOR DATA AND OBSERVATION

FORT STEWART - WRIGHT AAF (KLHW) CLIMATOLOGY

WEATHER WATCHES, WARNING AND ADVISORIES (WWA)

KLHW SOLAR/LUNAR DATA

PILOT REPORTS

SPACE WEATHER IMPACTS

SEMI ANNUAL AVIATION WEATHER BRIEF SUMMER

SEMI ANNUAL AVIATION WEATHER BRIEF WINTER

## DETACHMENT 3 18 WEATHER SQUADRON

### Phone:

(912) 315 5467

### Fax:

(912) 315 6677

### Location:

BLDG. 1252  
240 South Lightning Road  
Hunter AAF GA 31409

### Hours of Operation:








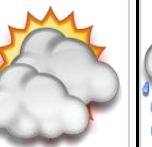
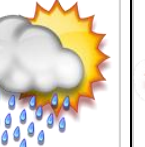

24/5  
Monday through Fridays

### Notice:

Closed Holidays and Approved Training  
Days

[LINK TO DET. 3 LEADERSHIP PAGE](#)



UNCLASSIFIED										
HUNTER AAF / FT STEWART - 5 DAY FORECAST										
AS OF 0600 HRS LOCAL Wednesday, November 15, 2017										
Wed 15 Nov 17		Thu 16 Nov 17		Fri 17 Nov 17		Sat 18 Nov 17		Sun 19 Nov 17		
06L-12L	12L-00L	00L-12L	12L-00L	00L-12L	12L-00L	00L-12L	12L-00L	00L-12L	12L-00L	
										
WINDS	NE 10KTS	NE 10G15KTS	N 05KTS	NW 10G15KTS	NE 05KTS	E 10G15KTS	SE 05KTS	SW 12G20KTS	NW 15G25KTS	NW 12G20KTS
MIN CEILINGS	2000 FT	NO CIG	NO CIG	NO CIG	NO CIG	NO CIG	2500 FT	2500 FT	2000 FT	NO CIG
MIN VISIBILITY	7 MILES	7 MILES	7 MILES	7 MILES	7 MILES	7 MILES	2 MILES	7 MILES	7 MILES	7 MILES
PRESENT WEATHER	MOSTLY CLOUDY	PARTLY CLOUDY	FEW CLOUDS	FEW CLOUDS	CLEAR	FEW CLOUDS	FOG	MOSTLY CLOUDY	ISOLD SHOWERS	FEW CLOUDS
TEMPERATURE	LO: 43F/06C	HI: 64F/18C	LO: 48F/09C	HI: 70F/21C	LO: 54F/12C	HI: 66F/19C	LO: 57F/14C	HI: 73F/23C	LO: 59F/15C	HI: 64F/18C
WIND CHL/HT INDEX										
ROTARY							V	W	W	W
FIXED WING	C						C/V	C	W/C	
GROUND OPS							V	W	W	W
UAV	C						C/V	C	C	
LIGHT DATA	SR: 0653	SS: 1725	SR: 0654	SS: 1724	SR: 0655	SS: 1724	SR: 0656	SS: 1723	SR: 0657	SS: 1723
	BMNT: 0558	EENT: 1820	BMNT: 0559	EENT: 1819	BMNT: 0600	EENT: 1819	BMNT: 0600	EENT: 1819	BMNT: 0601	EENT: 1818
	MR: 0407	MS: 1606	MR: 0503	MS: 1641	MR: 0558	MS: 1716	MR: 0653	MS: 1754	MR: 0747	MS: 1834
ILLUM: 10.4%		ILLUM: 5.1%		ILLUM: 1.7%		ILLUM: 0.3%		ILLUM: 0.7%		
C-CEILING V-VISIBILITY W-WIND										



# MISSION EXECUTION FORECAST



MISSION EXECUTION FORECAST - HUNTER AAF / FORT STEWART													
FOR PLANNING PURPOSES ONLY: CONTACT THE HUNTER AAF SWO FOR OFFICIAL BRIEF													
DAY	MONTH	YEAR	MEF TIME	AMD #	MEF #	FORECASTER		HUNTER AAF SWO CONTACT INFO					
23	04	2018	0500Z		23A	RECTOR		PMSV	D5N	COMM			
MAX TMP	MIN TMP	MAX PA	MAX DA	MIN ALSTG	WEB SITE	908.000		728-6467/6027		(812)315-6467/6027			
25	22	-98	1166	30.06	<a href="http://www.stewart.army.mil/index.php/units/tenant-units/weather">http://www.stewart.army.mil/index.php/units/tenant-units/weather</a>							(Public)	
HUNTER AAF & TEST FLIGHT AREAS (A-C) FORECAST													
VALID TIME	WINDS		VISIBILITY & WEATHER		SKY CONDITION		TMP	DP	MIN ALSTG	MAX PA	MAX DA		
05-06	17006		7		FEW050 SCT100		23	21	30.07	-108	936		
06-07	17006		7		FEW050 SCT100		23	21	30.07	-108	936		
07-08	17006		7		FEW050 SCT100		23	21	30.07	-108	936		
08-09	17006		7		FEW050 SCT100		23	21	30.06	-98	946		
09-10	18006		7		BKN030 BKN080		22	20	30.06	-98	826		
10-11	18006		7		BKN030 BKN080		22	20	30.07	-108	816		
11-12	18006		7		BKN030 BKN080		22	20	30.08	-118	806		
12-13	18006		7		BKN030 BKN080		23	20	30.09	-128	916		
13-14	18006		7		BKN030 BKN080		23	20	30.09	-128	916		
14-15	18006		7		BKN030 BKN080		23	20	30.10	-138	906		
15-16	18006		7		BKN030 BKN080		25	21	30.09	-128	1156		
16-17	18006		7		BKN030 BKN080		25	21	30.08	-118	1166		
HAZARDS													
THUNDER & STORMS			TURBULENCE			ICING			PRECIPITATION				
VALID: 23/14Z-23/17Z			VALID: 23/05Z-23/17Z			VALID: 23/05Z-23/17Z			VALID: 23/14Z-23/17Z				
NONE			NONE			NONE			NONE				
AREA			LINE			TRACE			RAIN				
X			430			X			X				
SCT (1-2%)			LIGHT			MODERATE			MODERATE				
FEW (3-10%)			MODERATE			SEVERE			HEAVY				
SCT (10-40%)			SEVERE			SEVERE			SHOWERS				
NRRS (+45%)			EXTREME			SEVERE			FREEZING				
LEVELS			LEVELS			LEVELS			LEVELS				
N/A			N/A			140-220			N/A				
LOCATION			LOCATION			LOCATION			LOCATION				
S. SECTOR			N/A			N & W SECTOR			S. SECTOR				
FLIGHT LEVEL WINDS			SOLAR/LUNAR			SPACE WX			LEGEND				
LEVEL	WIND	TEMP	TIME(I)	MR	TIME(I)	VALID:	23/00Z-23/06Z		ALL TIMES IN ZULU				
005	22005	23	0551	M8	1343	UHF	N	HF	N	GPS	N		
010	23010	21	0647	M8	0247	FRZ LVL			SOLAR/LUNAR: NE-NO EVENT				
020	23015	20	2000	0000	53.1%	MIN CIG			SPACE WX: S-SEVERE				
030	23015	18	2055	2369	64.3%	MAX TOP			M-MARGINAL N-NO IMPACT				
040	23015	16				14,000							
050	23015	14				1,000							
060	23010	13				25,000							
080	21010	10											
100	21005	7											
160	22010	-2											
200	26010	-10											
260	32010	-20											
WVAAs													
NO WVAAs CURRENTLY ISSUED													
VT TO													
VT TO													
VT TO													
VT TO													
VT TO													
VT TO													
OPERATING AREAS													
VALID TIME						VALID TIME							
0500Z-0800Z						0800Z-1100Z							
LOCATION						LOCATION							
WRIGHT AAF & R3006A-E						WRIGHT AAF & R3006A-E							
MIN CIG (AOL)						MIN CIG (AOL)							
NONE						BKN030 BKN080							
MIN VIS (3M)						MIN VIS (3M)							
7						7							
SIG WX						SIG WX							
NSW						NSW							
SFC WIND						SFC WIND							
17006						17006							
VALID TIME						VALID TIME							
1100Z-1400Z						1400Z-1700Z							
LOCATION						LOCATION							
WRIGHT AAF & R3006A-E						WRIGHT AAF & R3006A-E							
MIN CIG (AOL)						MIN CIG (AOL)							
BKN030 BKN080						BKN030 BKN080							
MIN VIS (3M)						MIN VIS (3M)							
7						7							
SIG WX						SIG WX							
NSW						NSW							
SFC WIND						SFC WIND							
18006						18006							
REMARKS:													

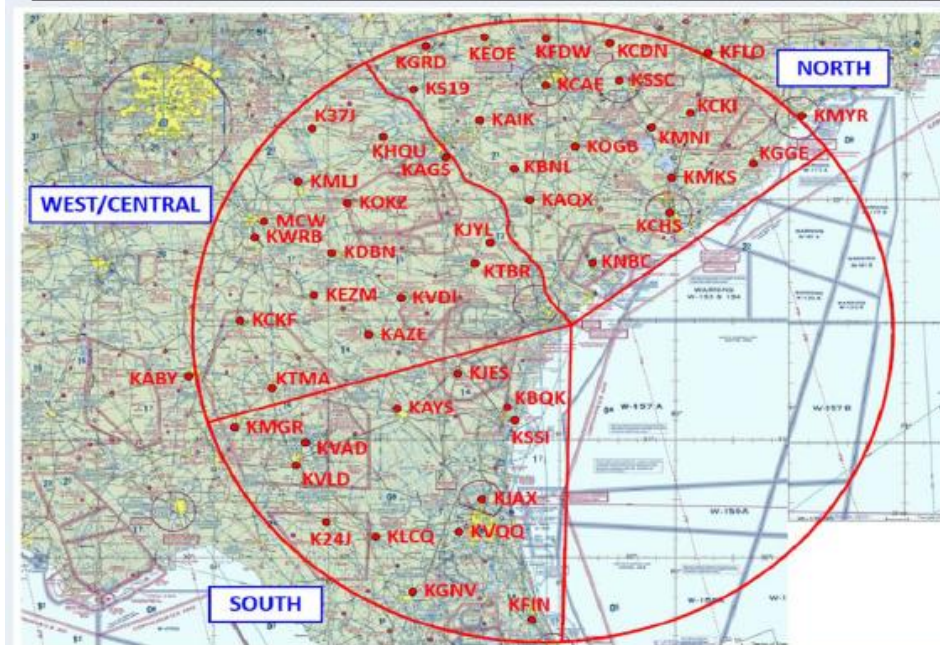




# MISSION EXECUTION FORECAST



MISSION EXECUTION FORECAST - EXTENDED AREA (150NM RING)			
FOR PLANNING PURPOSES ONLY: CONTACT THE HUNTER AAF SWO FOR OFFICIAL BRIEF			
VALID TIME	0500Z-0800Z		
LOCATION	NORTH	WEST/CENTRAL	SOUTH
MIN CIG (AGL)	BKN030	BKN200	BKN080
MIN VIS (SM)	5	7	7
SIG WX	BR	NSW	NSW
SFC WIND	20006	16010	16006
VALID TIME	0800Z-1100Z		
LOCATION	NORTH	WEST/CENTRAL	SOUTH
MIN CIG (AGL)	BKN010	BKN014	BKN030
MIN VIS (SM)	4	5	7
SIG WX	BR	BR	NSW
SFC WIND	21006	23005	15010
VALID TIME	1100Z-1400Z		
LOCATION	NORTH	WEST/CENTRAL	SOUTH
MIN CIG (AGL)	BKN010	BKN014	BKN030
MIN VIS (SM)	4	7	7
SIG WX	BR	NSW	NSW
SFC WIND	21006	25007	15012
VALID TIME	1400Z-1700Z		
LOCATION	NORTH	WEST/CENTRAL	SOUTH
MIN CIG (AGL)	BKN025	BKN020	BKN030
MIN VIS (SM)	7	3	3
SIG WX	NSW	SHRA	TSRA
SFC WIND	23010	25010	VRB20G30







# UAS Mission Execution Forecast



## FT STEWART/WRIGHT AAF/EVANS AAF MISSION EXECUTION FORECAST (MEF)

FOR UPDATE/DEBRIEF CALL WAAF WX @ DSN 475-3147 OR COMM 912-435-3147 (VHF 252.025)

AFTER 1600L CONTACT HAAF WX @ DSN 729-5467 OR COMM 912-314-5467

DATE 17-Nov-17

VT A (12Z - 04Z)

AMD

BRIEF TIME:

VOID TIME:

BRIEFER INITIALS:

PILOT INITIALS:

### SECTION I. WRIGHT AAF TAKE-OFF / RECOVERY WEATHER

VALID TIMES	WIND (KT) (M)	XWIND	VIS (SM)	WX	SKY CONDITION	TEMP	DPT	RH%	ALSTG	PA	DA	MIN CEILING
0700L / 1200Z	03006	05	7	NSW	SKC	+05° C	+04° C	93%	30.12 INS	-138	-1265	12Z - 18Z
0900L / 1400Z	06010	00	7	NSW	SKC	+10° C	+05° C	71%	30.14 INS	-157	-635	N/A
1100L / 1600Z	09010G15	07	7	NSW	SKC	+16° C	+07° C	55%	30.15 INS	-166	+136	18Z - 04Z
1300L / 1800Z	09010G15	07	7	NSW	SKC	+21° C	+07° C	40%	30.14 INS	-157	+798	N/A
1500L / 2000Z	09010G15	07	7	NSW	SKC	+19° C	+07° C	46%	30.12 INS	-184	+503	MAX TOPS
1700L / 2200Z	09010G15	07	7	NSW	SKC	+17° C	+09° C	59%	30.12 INS	-184	+247	12Z - 18Z
1900L / 2400Z	09010G15	07	7	NSW	FEW015	+13° C	+10° C	82%	30.10 INS	-166	-249	N/A
2100L / 0200Z	06005	00	7	NSW	SCT015	+12° C	+11° C	94%	30.10 INS	-166	-378	18Z - 04Z
2300L / 0400Z	06005	00	4	BR	SCT015	+12° C	+11° C	94%	30.10 INS	-166	-378	N/A

### SECTION II. CURRENT WATCHES / WARNINGS / ADVISORIES all w/in 5nm or 25nm (ALL TIMES ZULU)

NONE	Valid	to	NONE	Valid	to
NONE	Valid	to	NONE	Valid	to
NONE	Valid	to	NONE	Valid	to



# UAS Mission Execution Forecast



## SECTION III. ENROUTE WEATHER / HAZARDS (ALL TIMES ZULU / ALL HAZARDS ARE FOR CAT II AIRCRAFT)

<b>*T-STORMS</b>		VT: NA		<b>TURB</b>		VT: NA		<b>ICING</b>		VT: N/A		<b>PRECIP</b>		VT: NA	
<input type="checkbox"/> ISOLD 1-2%	<input type="checkbox"/> SCT 16-45%	<input type="checkbox"/>	<input type="checkbox"/> LGT	<input type="checkbox"/>	<input type="checkbox"/> SVR	<input type="checkbox"/>	<input type="checkbox"/> LGT	<input type="checkbox"/> RIME	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> FEW 3-15%	<input type="checkbox"/> NMRS >45%	<input type="checkbox"/>	<input type="checkbox"/> MDT	<input type="checkbox"/>	<input type="checkbox"/> EXTRM	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> LGT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> AREA	<input type="checkbox"/> LINE	<input type="checkbox"/>	<b>LEVELS</b>			<input type="checkbox"/>	<b>LEVELS</b>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MAX TOPS:		<input type="checkbox"/>	IN CLEAR			<input type="checkbox"/>	IN CLOUD			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
															<input type="checkbox"/> SHWRS
															<input type="checkbox"/> FRZNG
															<input type="checkbox"/> DRIZ
															<input type="checkbox"/> RAIN
															<input type="checkbox"/> SNOW
															<input type="checkbox"/> SLEET

\*HAIL, SEVERE TURBULENCE & ICING, HEAVY PRECIPITATION, LIGHTNING & WIND SHEAR EXPECTED IN AND NEAR THUNDERSTORMS.

MIN FREEZING LVL (MSL)

12Z-18Z

120

18Z-04Z

120

SPACE WEATHER IMPACTS

12Z-04Z

HF

NO IMPACT

UHF

NO IMPACT

GPS

NO IMPACT

SOLAR AND LUNAR DATA

BMNT

0601

L

SUNRISE

0657

L

SUNSET

1726

L

EENT

1821

L

MOONRISE

0600

L

MOONSET

1718

L

ILLUM %

1.7%

SECTION IV. FLIGHT LEVEL WINDS											
VALID TIME:				VALID TIME				VALID TIME			
1200Z-1600Z				1600Z-2200Z				2200Z-0400Z			
LEVEL	DIR	KTS	TEMP	LEVEL	DIR	KTS	TEMP	LEVEL	DIR	KTS	TEMP
FL010	60	20	+13C	FL010	100	15	+15C	FL010	100	15	+13C
FL020	60	20	+12C	FL020	100	15	+13C	FL020	100	15	+12C
FL030	80	20	+10C	FL030	100	10	+09C	FL030	120	10	+09C
FL040	80	20	+10C	FL040	100	10	+08C	FL040	120	10	+09C
FL050	60	5	+11C	FL050	100	10	+09C	FL050	120	10	+09C
FL060	340	5	+10C	FL060	90	5	+08C	FL060	130	5	+09C
FL080	330	10	+08C	FL080	210	5	+07C	FL080	220	5	+07C
FL100	300	15	+04C	FL100	240	15	+04C	FL100	250	10	+04C
FL120	280	20	00C	FL120	250	15	00C	FL120	260	15	+01C
FL140	290	20	-04C	FL140	270	20	-03C	FL140	270	20	-03C
FL160	300	25	-08C	FL160	270	20	-08C	FL160	280	25	-08C
FL180	300	30	-14C	FL180	280	25	-14C	FL180	300	25	-13C
FL220	300	35	-22C	FL220	300	30	-19C	FL220	310	30	-18C
FL240	300	35	-27C	FL240	310	40	-25C	FL240	320	40	-24C
FL270	310	40	-35C	FL270	320	50	-32C	FL270	320	50	-31C

REMARKS:



# UAS Mission Execution Forecast



SECTION V. AREA FORECAST					
Forecast Area	Valid Time (Z)	SFC Wind (KTS)	VIS (SM) / WX	CLOUD LAYERS	MIN ALSTG
R3005 A/B	12-16	06010	7	SKC	3012
	16-24	09010G15	7	SKC	3010
	00-03	06005	7	FEW015	3010
	03-04	06005	4 BR	SCT015	3010
R3005 C/D	12-16	06010	7	SKC	3012
	16-24	09010G15	7	SKC	3010
	00-03	06005	7	FEW015	3010
	03-04	06005	4 BR	SCT015	3010
R3005 E	12-16	06010	7	SKC	3012
	16-24	09010G15	7	SKC	3010
	00-03	06005	7	FEW015	3010
	03-04	06005	4 BR	SCT015	3010
*****Briefing not valid until call back for initials from SWO*****					
THIS IS A LOCAL PRODUCT PRODUCED FOR UAS OPERATING IN THE FT STEWART RANGES					



# WEATHER BRIEFINGS



- ✓ Provide Mission Execution Forecasts (MEF) for VFR local flights w/in 150nm ring of KSVN
- ✓ Provide 175-1 briefings via telephone, fax, email or in person
- ✓ 175-1's should be requested at least 2 hours prior to delivery time and prior to filing a flight plan
- ✓ Updates may be done on PMSV, but not initial briefs

***For after hours briefing support please contact  
26<sup>th</sup> OWS Flight Weather Briefing cell at:***

**DSN: 331-2651/2652/2653**

**Comm: 318-529-2651/2652/2653**



# PMSV



- ✓ Pilot-to-Metro Service
- ✓ UHF Frequency only
- ✓ Available during duty hours only
- ✓ **HAAF - UHF: 309.0**
- ✓ **WAAF - UHF: 252.025**





# WEATHER WATCHES, WARNINGS AND ADVISORIES



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

**Weather Watch** - Alert supported units of **potential** for hazardous weather for which they must take protective measures.

**Weather Warning** - Alert supported units to **existing** **or imminent** weather conditions that pose a hazard to life or property.



# CAB Hangering Recommendation Memo



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

17 April 2014

MEMORANDUM FOR 3<sup>rd</sup> CAB

FROM: DET 3, 18<sup>TH</sup> WEATHER SQUADRON

SUBJECT: Aircraft Hangar Recommendation for Severe Weather.

No Significant weather is expected that requires the hangering 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.

1. 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).
2. 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

3. 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

4. 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



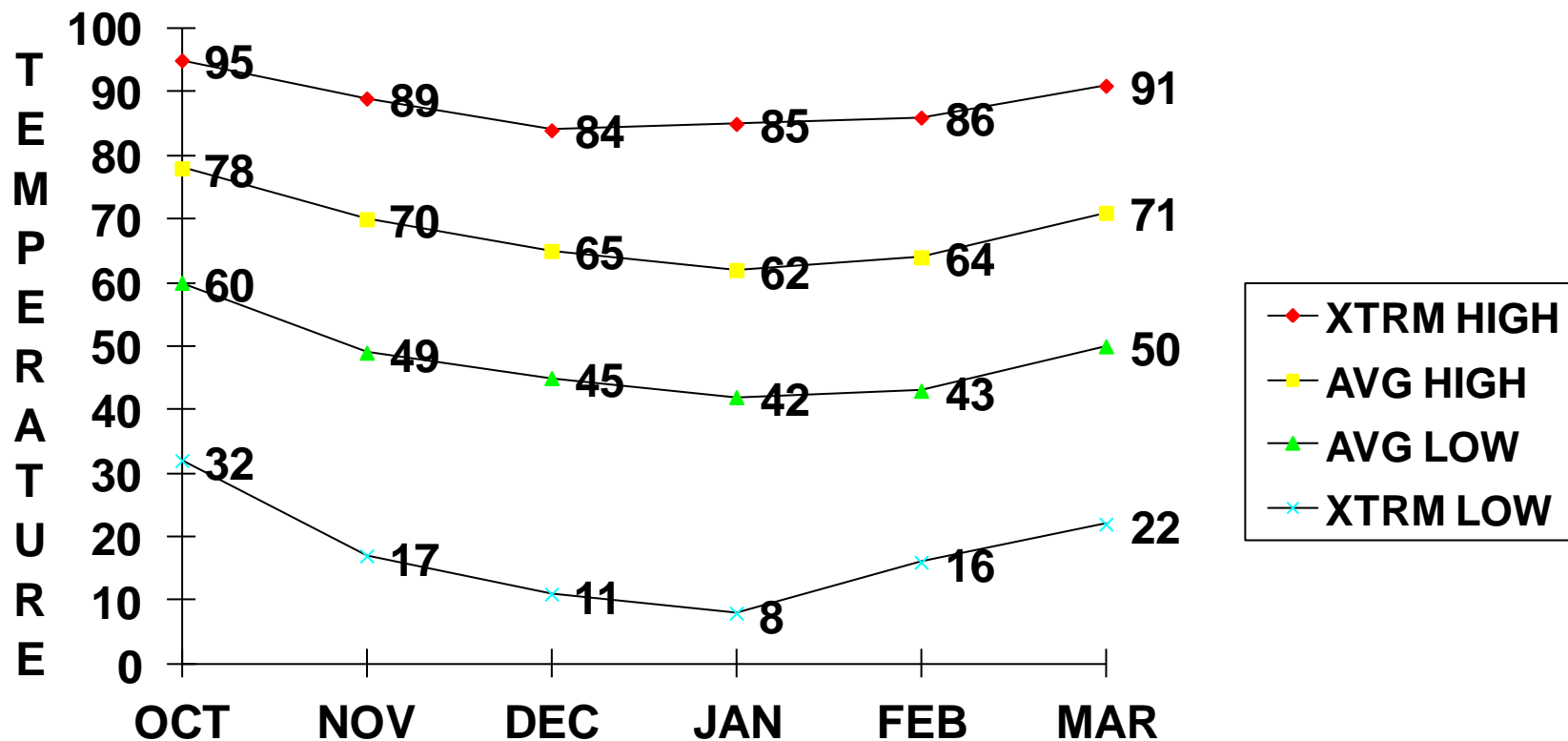
# SEASONAL WEATHER



- ✓ **FALL:** Some cold frontal passages, less T-storm activity, increased lower ceiling and visibility.
- ✓ **WINTER:** Frequent cold frontal passages, stronger winds, highest probability for turbulence and icing, minimal T-storm activity, frequent low ceiling and visibility conditions.

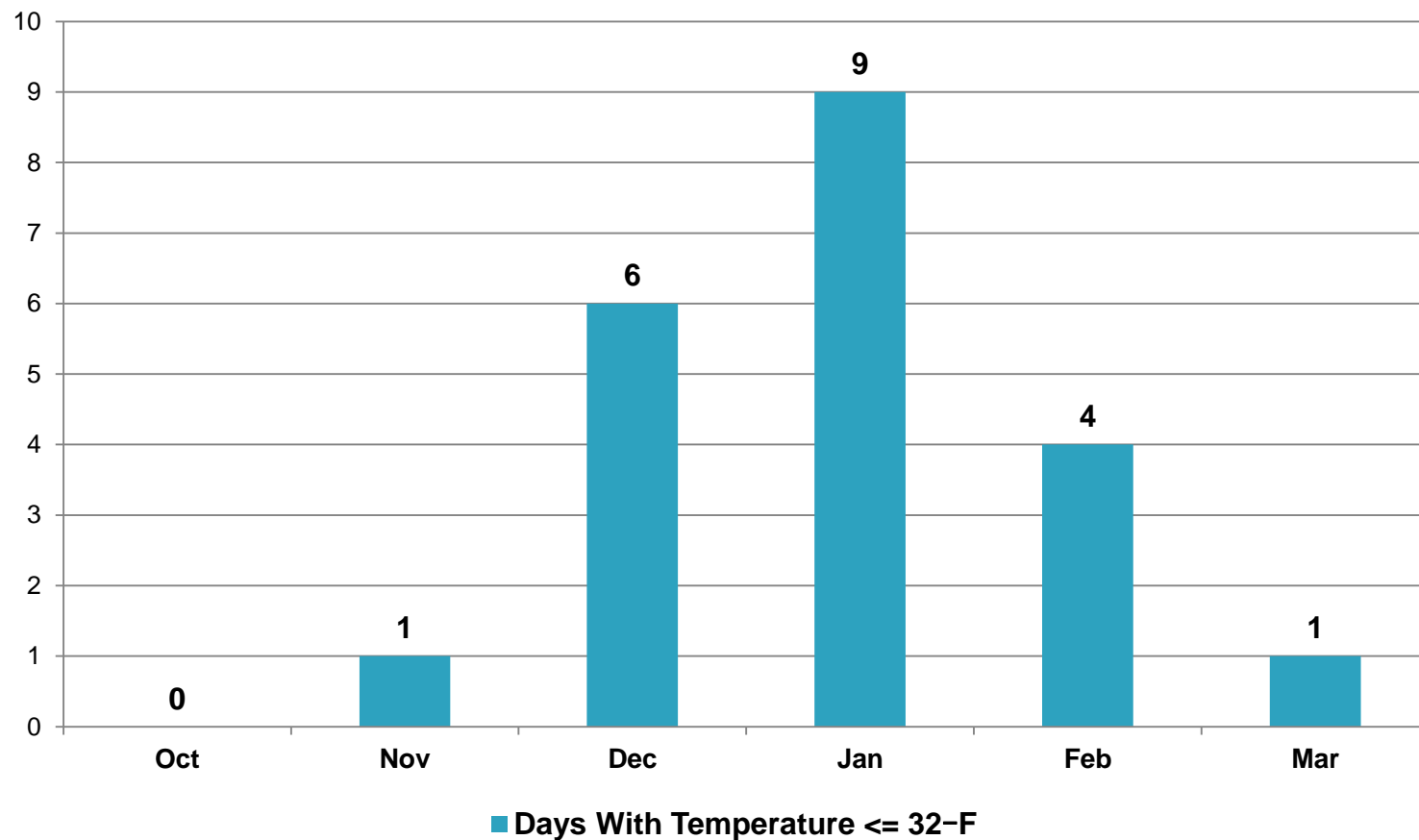


# HUNTER AAF and FT STEWART AVERAGE TEMPERATURES (F°)





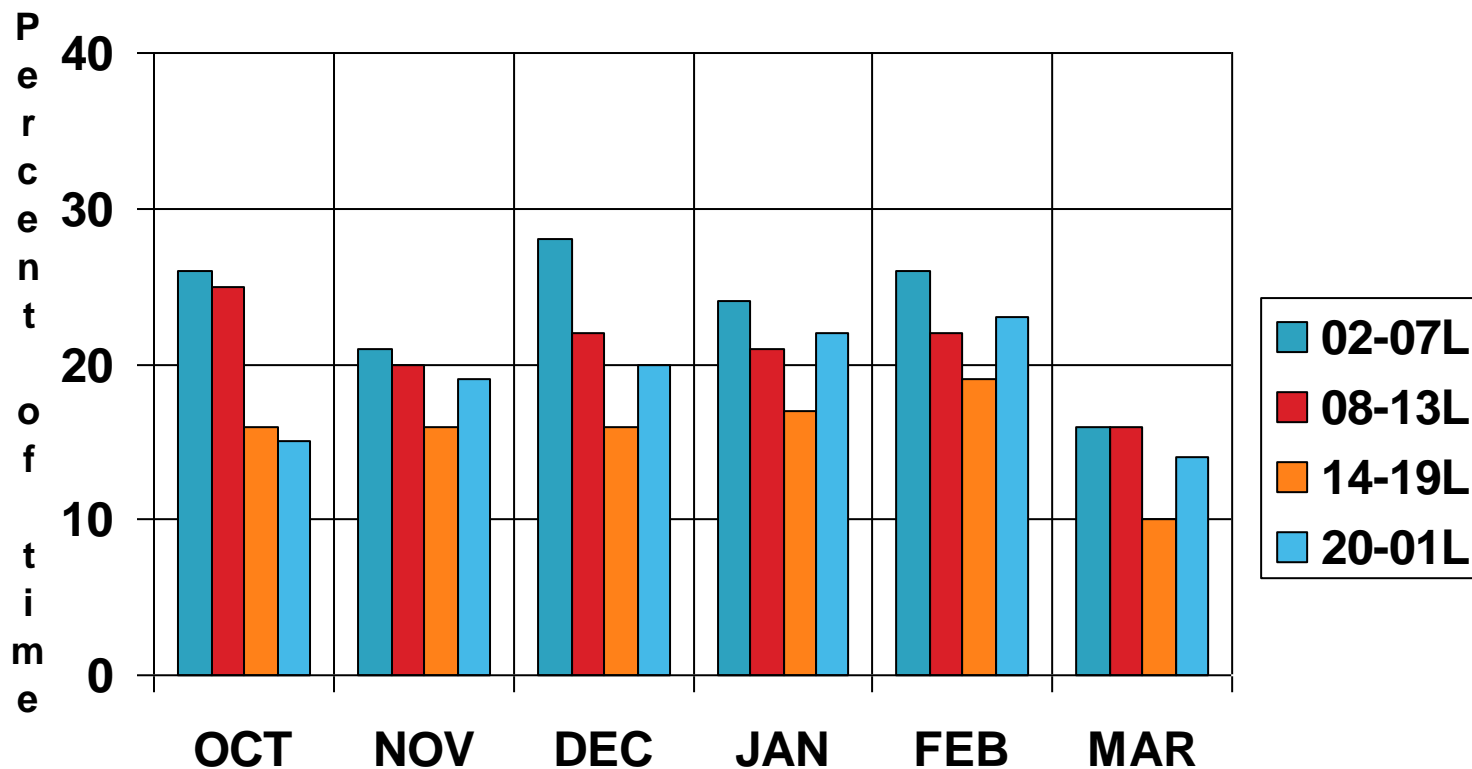
# Average days per month with temperatures less than or equal to 32F°





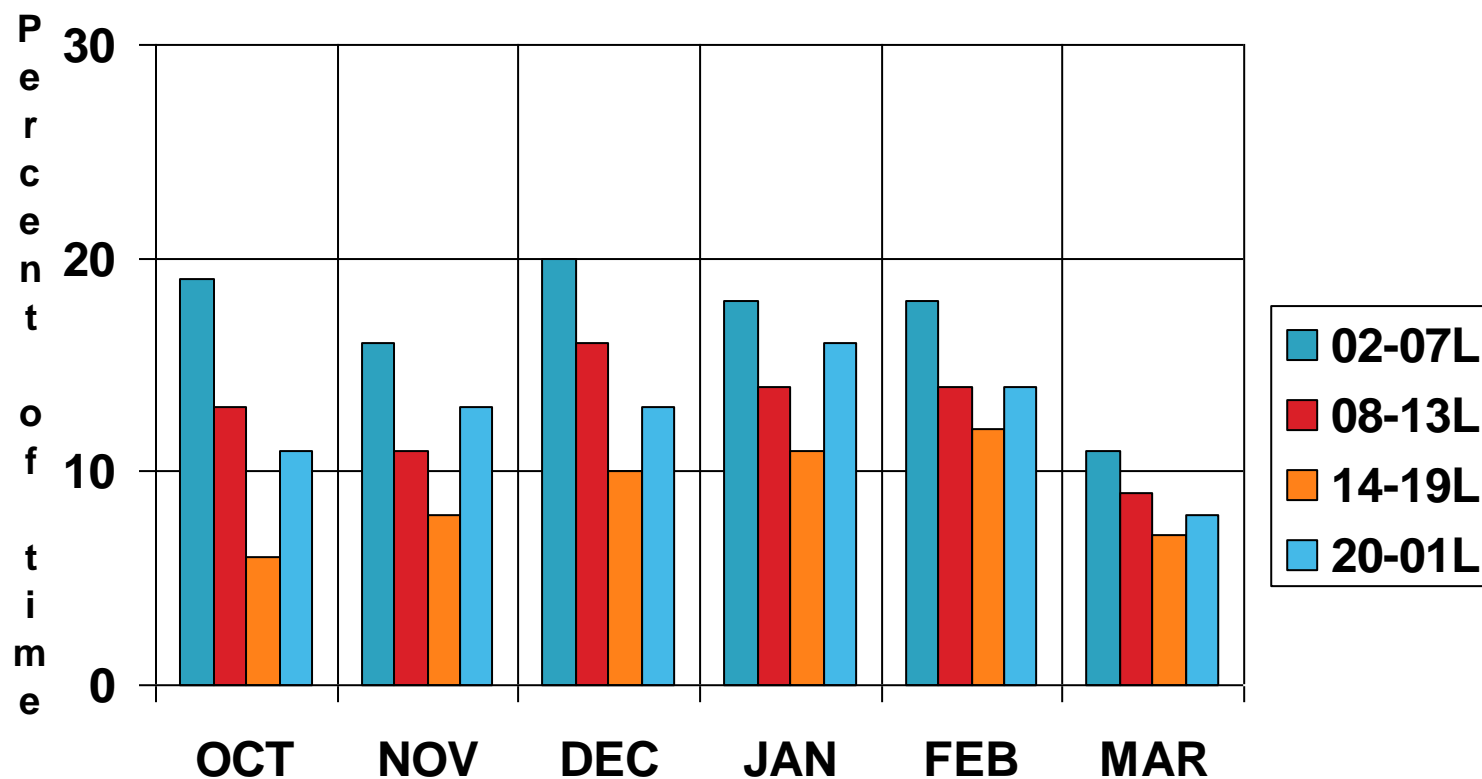


# HUNTER AAF AND FT STEWART CEILINGS AND VISIBILITIES LESS THAN 3000 FEET and/or 3 MILES



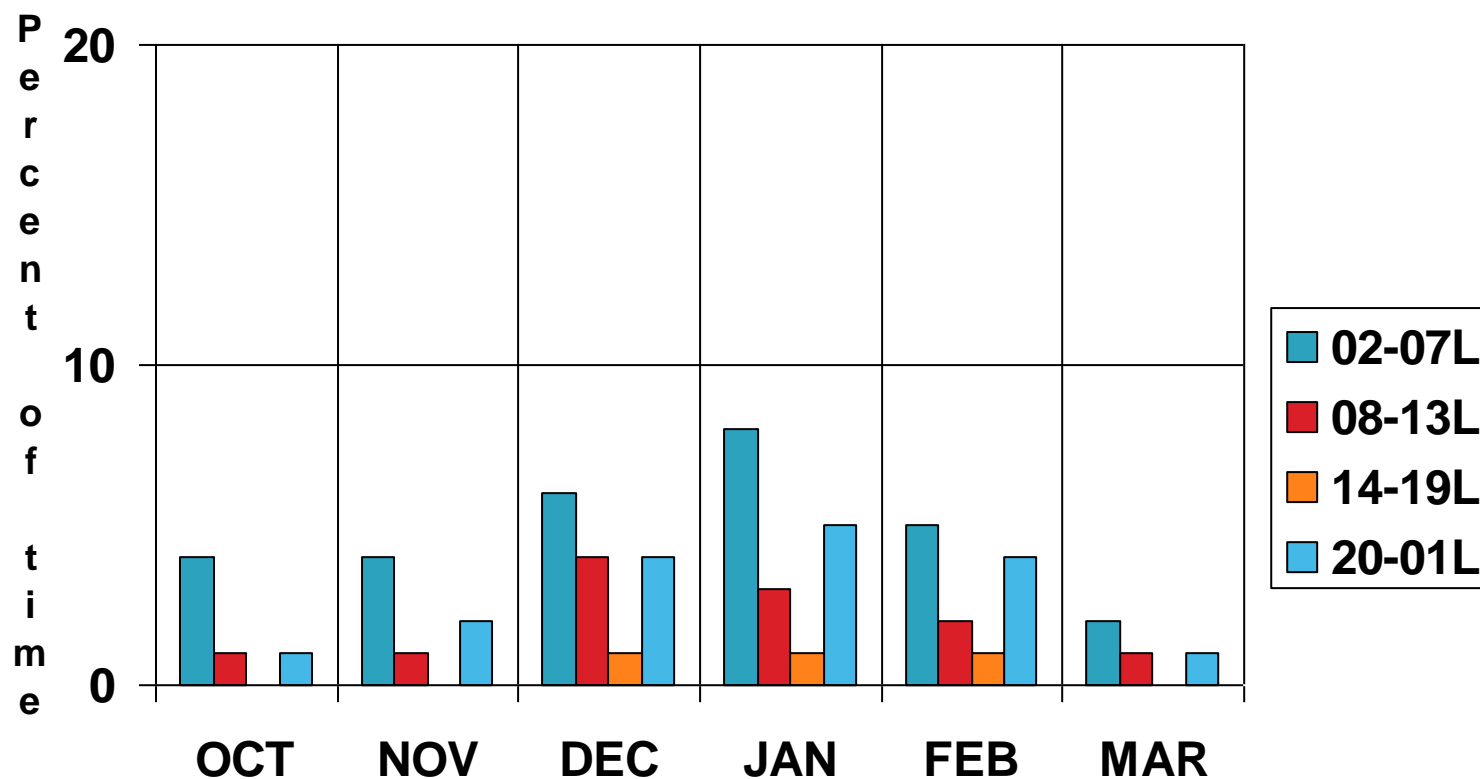


# HUNTER AAF AND FT STEWART CEILINGS AND VISIBILITIES LESS THAN 1000 FEET and/or 2 MILES



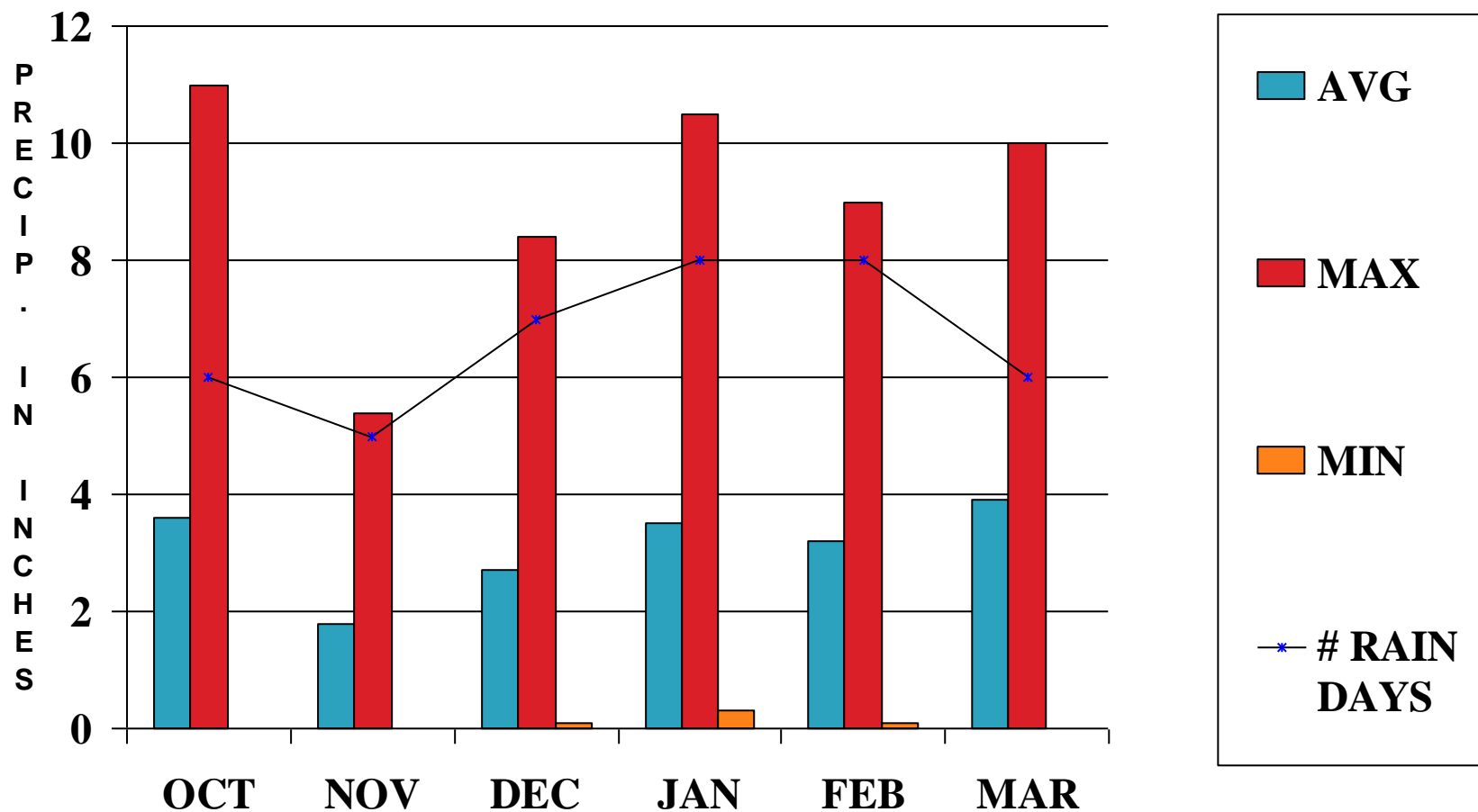


# HUNTER AAF AND FT STEWART CEILINGS AND VISIBILITIES LESS THAN 200 FEET and/or 1/2 MILE





# Average rainfall amounts





# **HUNTER AAF AND FT STEWART** **AVERAGE WIND SPEED AND** **DIRECTION**



<b><u>MONTH</u></b>	<b><u>DIRECTION AND SPEED</u></b>	<b><u>PEAK WIND SPEED</u></b>
<b>OCT</b>	<b>NORHTEAST 7 KTS</b>	<b>PEAK 53 KTS</b>
<b>NOV</b>	<b>SOUTHWEST 8 KTS</b>	<b>PEAK 54 KTS</b>
<b>DEC</b>	<b>WEST 9 KTS</b>	<b>PEAK 50 KTS</b>
<b>JAN</b>	<b>WEST 9 KTS</b>	<b>PEAK 52 KTS</b>
<b>FEB</b>	<b>NORTHWEST 9 KTS</b>	<b>PEAK 51 KTS</b>
<b>MAR</b>	<b>WEST 9 KTS</b>	<b>PEAK 50 KTS</b>





# HAZARDS TO AIRCRAFT

## FALL-WINTER



- ✓ Thunderstorms – seasonal annual low but not completely ruled out
- ✓ Icing – Common in winter months assoc. w/ fog and low ceilings
- ✓ Turbulence
  - ✓ decrease in thermal turbulence (heating)
  - ✓ increase in mechanical turbulence (CF)
- ✓ LLWS - Increased potential for wind shear below 2,000'



# ICING



- ✓ Increases the weight of the aircraft
- ✓ Decreases lifting surface efficiency
- ✓ 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



- ✓ Turbulence to aircraft is categorized by: size, weight, and speed of the aircraft.
- ✓ All forecasts (MEF/5 day, etc) are set for **CAT II** aircraft
- ✓ Any hazards on MEF will be re-calculated by  $\frac{1}{2}$  for each category difference (example):
  - ✓ CAT II LGT = CAT I LGT OCNL MOD turb
- ✓ All Flight Weather Briefs (Locals, 175-1) will be specific to each aircraft



# TURBULENCE



- ✓ Increase in stronger winds from the West and North influence mechanical and frontal TURBC
- ✓ Fast moving frontal systems can produce moderate or greater low-level turbulence
- ✓ Frictional effects normally limited to first 3,000-4,000 feet



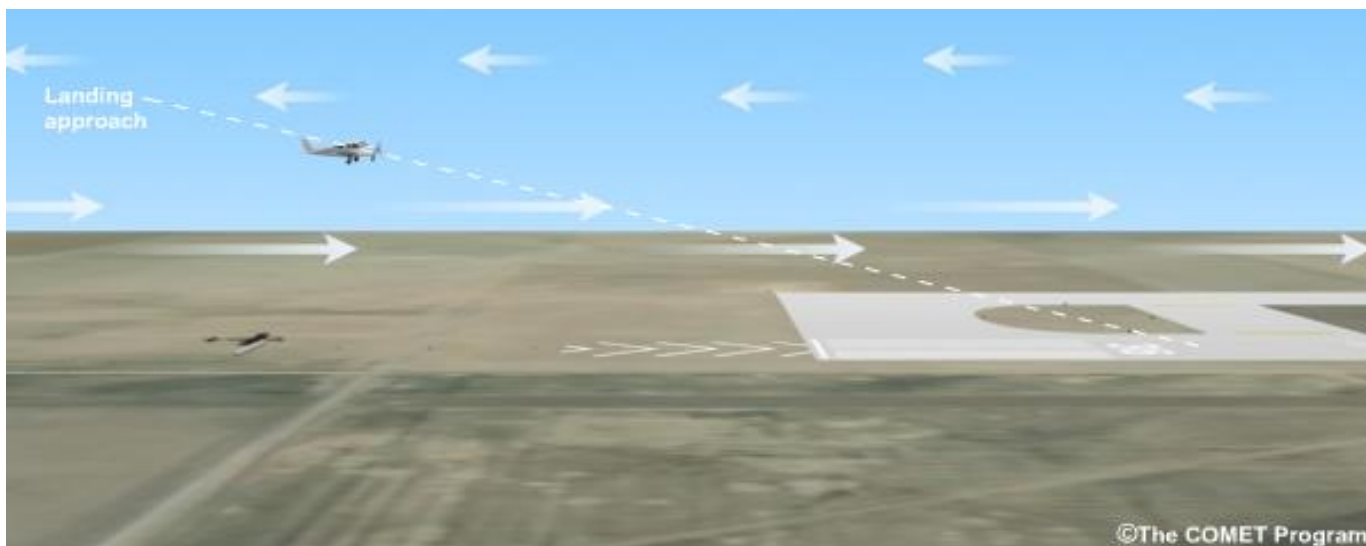




# LOW LEVEL WIND SHEAR



- ✓ LLWS can impact aircraft performance during both takeoff and landing.
- ✓ The most hazardous consequence is when it occurs on approach AND near the surface, after the pilot has made power adjustments to compensate for the wind

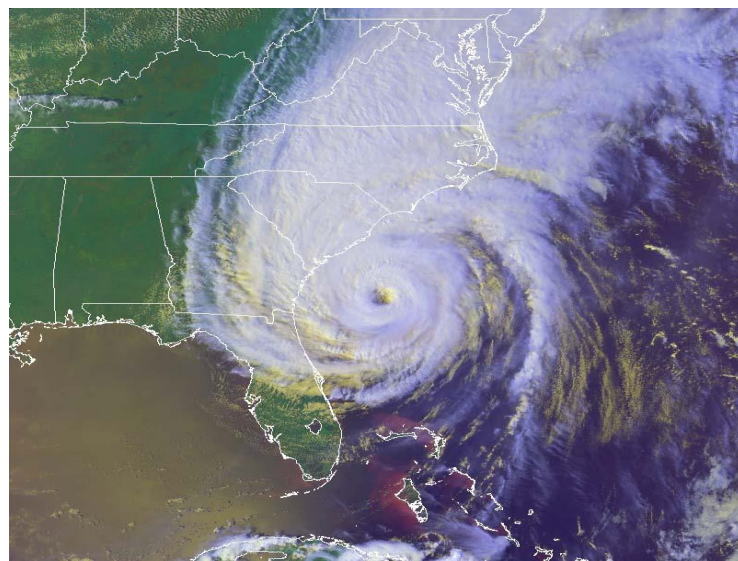




# HURRICANE ACTIVITY



- ✓ 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 (NHC)





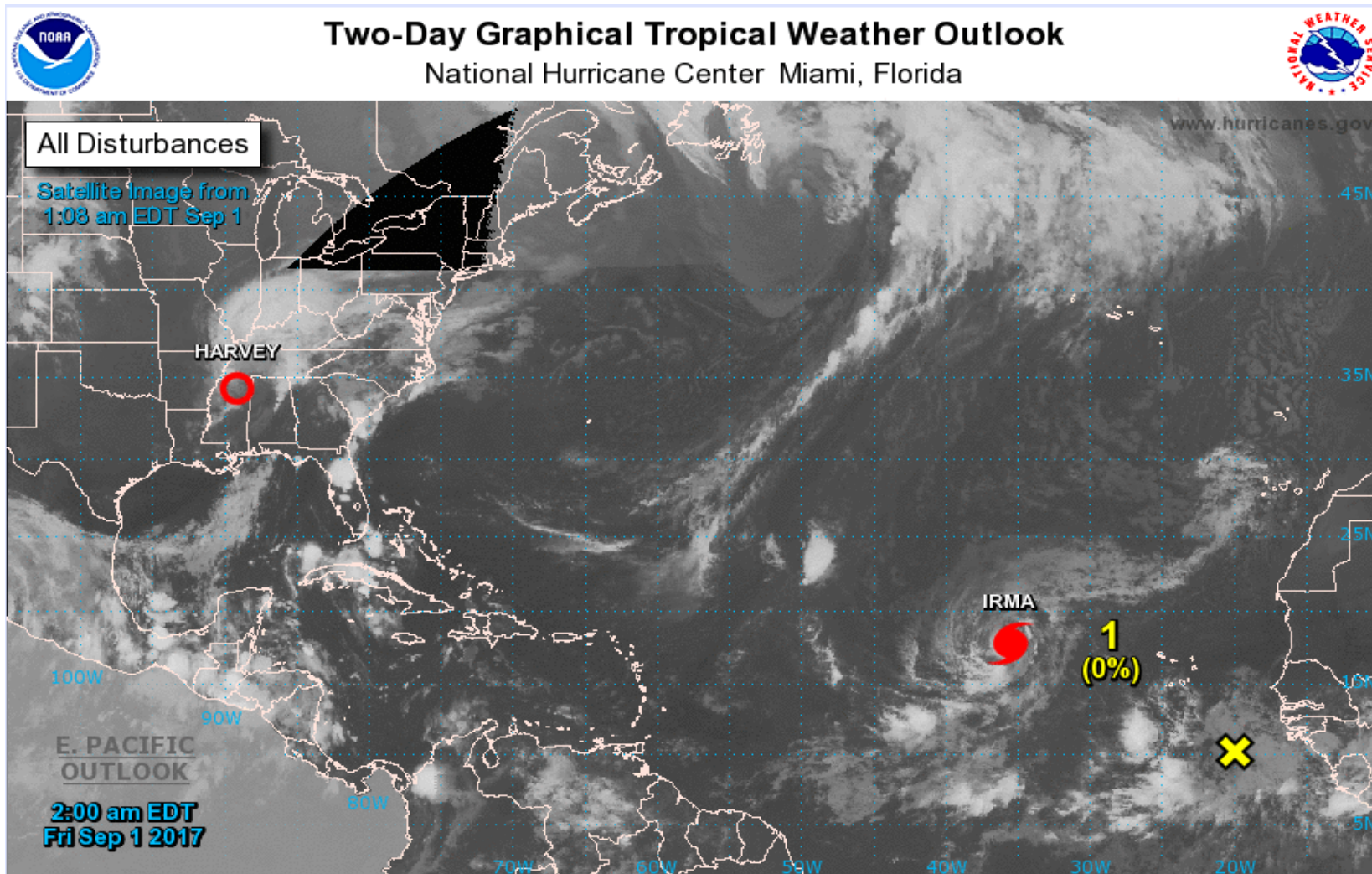
# NHC WATCHES AND WARNINGS



- ✓ **Hurricane Watch:** An announcement for specific coastal areas that hurricane conditions are possible within 36 hours.
- ✓ **Hurricane Warning:** 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 OUTLOOK







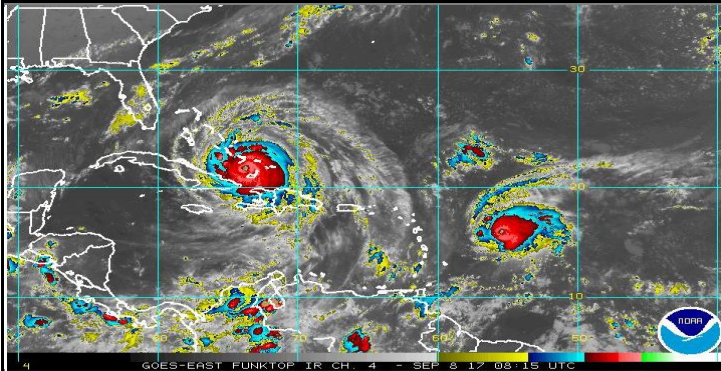
# HURRICANE ADVISORY



## Hunter AAF / Fort Stewart Advisory

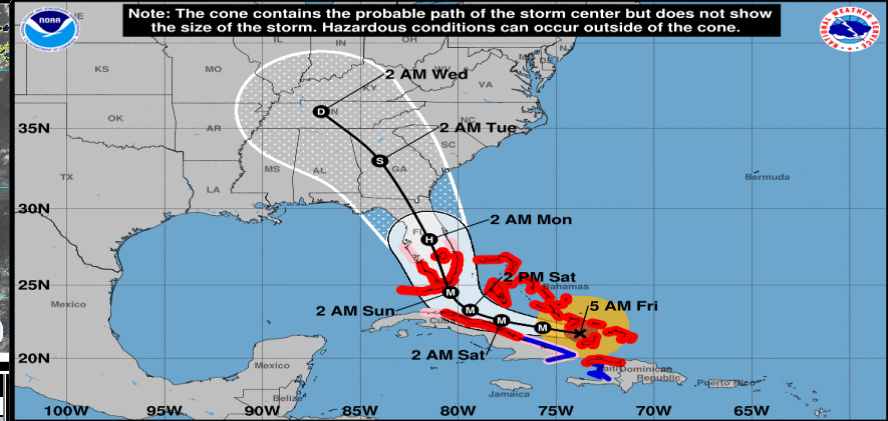
ERRORS FOR THE TRACK CAN AVERAGE NEAR 225NM ON DAY 4 AND 300NM BY DAY 5 - ERRORS FOR THE INTENSITY FORECAST ARE NEAR 20KTS EACH DAY

### HURRICANE IRMA











### HURCON 3

### NHC ADVISORY #37



### Effects Expected at Hunter AAF

FCST HR	DTG	WSPD	WDIR	50KT WIND DIST	EYE DIST
0	08SEP - 06L	< 34KTS	030	739	831
12	08SEP - 18L	< 34KTS	040	623	720
24	09SEP - 06L	< 34KTS	050	534	641
36	09SEP - 18L	< 34KTS	050	479	593
48	10SEP - 06L	< 34KTS	060	345	468
72	11SEP - 06L	< 34KTS	070	76	214

<b>Hurricane Irma</b> Friday September 08, 2017 5 AM EDT Advisory 37 NWS National Hurricane Center	<b>Current information: x</b> Center location 21.7 N 73.8 W Maximum sustained wind 155 mph Movement WNW at 16 mph	<b>Forecast positions:</b> ● Tropical Cyclone   ○ Post/Potential TC Sustained winds:   D < 39 mph S 39-73 mph   H 74-110 mph   M > 110 mph	
<b>Potential track area:</b>  Day 1-3  Day 4-5	<b>Watches:</b>  Hurricane  Trop Stm	<b>Warnings:</b>  Hurricane  Trop Stm	<b>Current wind extent:</b>  Hurricane  Trop Stm

### Position and Track Synopsis:

At 500 AM EDT (0900 UTC), the eye of Hurricane Irma was located near latitude 21.7 North, longitude 73.8 West. Irma is moving toward the west-northwest near 16 mph (26 km/h), and this motion is expected to continue for the next day or so with a decrease in forward speed. A turn toward the northwest is expected by late Saturday. On the forecast track, the eye of Irma should continue to move westward away from the Turks and Caicos Islands and toward the southeastern Bahamas this morning. The core of the hurricane will then move between the north coast of Cuba and the Bahamas during the next day or two, and be near the Florida Keys and the southern Florida Peninsula Sunday morning. Hurricane-force winds ( $\geq 75$ MPH) extend outward up to 70 miles (110 km) from the center and tropical-storm-force winds ( $\geq 58$ mph) extend outward up to 185 miles (295 km).

### Impacts to the Local Area:

Impacts to the local area largely depend on the intensity, track and speed of Hurricane Irma. Tropical Storm force winds ( $\geq 58$ MPH) winds are expected to impact the local area on or around Monday afternoon 11SEP17. According to the current track, projected landfall will take place in Southern Florida and will continue to progress North/Northwest towards central Georgia. The main impact from this storm will be heavy rain, gusty winds. Rain fall totals are estimated as high as 8 inches and max wind speeds of 50mph on Monday afternoon. Hurricane-force winds ( $\geq 75$ MPH) extend outward up to 70 miles (85km) from the center and tropical-storm-force winds ( $\geq 58$ mph) extend outward up to 185 miles (295 km).

### Other Information:

THE STAFF WEATHER OFFICE WILL CONTINUE TO CLOSELY MONITOR THE TRACK OF HURRICANE IRMA NEXT UPDATE WILL BE 08 / 1200L.

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.



# JET



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

## Request a New Account.

### US DEPARTMENT OF DEFENSE WARNING STATEMENT

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OK



**New WX Brief Portal to request flight brief without an account.**

WX Brief

Apps.

Help

User: mdaust | Portal: 26th OWS Guest | [Logout](#)

**WHAT'S NEW**

Observations and Forecasts | AOR Sensor Data | Warnings | Radar Imagery | Lightning

### Viewer - Observation

Location ID	Valid Time	Roll-up	Raw Data	Last 96 Hours
KDYS	221458Z	●	METAR KDYS 221458Z 18010KT 10SM CLR 31/19 A3012 RMK AO2A SLP146 T03080194 51008 \$	<a href="#">Decoded / Raw</a>
KEND	221455Z	●	METAR KEND 221455Z 20012KT 10SM FEW200 29/20 A3004 RMK AO2A SLP158 50002	<a href="#">Decoded / Raw</a>
	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	<a href="#">Decoded / Raw</a>
	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	<a href="#">Decoded / Raw</a>
	221458Z		KFSI METAR 1458Z COR 23009KT 10SM CLR 30/20 ALSTG 30.07 RMK AO2A T03040201 PA +1050 DA +3315 COR 1505	



# Any Questions?

*“Weather’s not important ‘til it’s important – then it’s too late...” Lt Col Bill Aggrella*