

Fort Hood Semi-Annual Weather Briefing



Perfect Storm Event
GOES-7 Visible
November 1, 1991
1601 UTC (1101 EST)

Winter Transition Season

Unnamed hurricane

3d Weather Squadron (3 WS)

Updated 14 Oct 2016



OVERVIEW



- ☞ Local Area Influences
- ☞ Winter Climatology
- ☞ Winter Hazards
- ☞ Watches/Warnings/Advisories
- ☞ Weather Operations
- ☞ POCs





Winter Synoptic Pattern

- Polar Front Jet (PFJ) moves further south
- Frontal passages occur ~ every 5-7 days
- Fall second (minor) severe season (Sep-Nov)
- Decrease in thunderstorm activity, but increase in morning fog and low ceilings





Local Area Influences

- ☞ Rolling hills with peaks up to 1,500 feet
- ☞ Upslope under easterly flow can cause prolonged IFR conditions
- ☞ Large lake areas and abundant foilage
 - Act as moisture sources for fog and low ceilings
- ☞ Isolated weather conditions throughout reservation
 - What looks good at RGAAF and HAAF can be different on far north and east side of reservation
- ☞ Low river crossings, hard ground, low water retention causes flash flood situations





Winter Climatology



☞ Degraded Flying Operations

- Lower AM visibility/ceilings due to fog/stratus
 - ◆ Can extend into afternoon
 - ◆ Induced by upslope conditions (easterly flow)
 - ◆ Cooler temperatures
- Aircraft Icing
 - ◆ Major winter weather hazard—lower freezing level
 - ◆ Can extend down to surface (frost)





Climatological Data



Oct Nov Dec Jan Feb

Temperature

Mean Max (F)	81	71	62	62	66
Mean Min (F)	59	49	41	40	43
Extm Max (F)	101	93	89	88	102

Precipitation

Mean Month (in)	3.4	2.1	1.9	1.7	2.4
Mean # TS Days	3	1	1	2	2
Mean # Fog Days	9	10	11	11	12





CEILING CLIMO

(< 3,000 Ft)



% Ceiling < 3000 ft

Name: ROBERT GRAY AAF, TX UNITED STATES Network Type: ICAO
 Platform ID: KGRK Lat: 31.067 Lon: -97.829 Time Offset: -6.00
 Data Derived from 14WS Surface Observation Database / POR: 1973 - 2013

14WS (557 WW)
 151 Patton Ave, Rm 120
 Asheville, NC 28801-5002

23Z (17L)	26	25	21	15	11	4	2	2	9	14	19	25
22Z (16L)	27	27	20	16	10	5	2	1	9	14	19	25
21Z (15L)	29	28	23	17	12	5	2	3	10	14	21	27
20Z (14L)	33	30	27	19	13	7	3	4	10	16	23	30
19Z (13L)	35	34	30	24	15	8	4	5	13	21	27	32
18Z (12L)	37	37	35	29	21	10	5	6	15	24	29	33
17Z (11L)	41	43	40	35	29	14	7	7	19	29	34	35
16Z (10L)	43	46	46	40	36	18	10	10	24	35	40	38
15Z (09L)	43	48	48	46	44	26	15	13	31	39	42	40
14Z (08L)	43	47	49	50	50	33	19	16	33	43	43	40
13Z (07L)	43	48	48	49	50	34	18	15	31	43	43	41
12Z (06L)	42	47	49	50	51	33	18	13	31	43	41	39
11Z (05L)	42	45	46	48	51	37	18	13	26	39	40	39
10Z (04L)	42	44	46	45	49	36	18	11	26	36	38	39
09Z (03L)	39	42	45	42	44	30	15	10	24	35	37	38
08Z (02L)	38	39	43	39	40	27	11	8	21	32	37	37
07Z (01L)	38	39	40	36	35	20	9	5	18	29	36	35
06Z (00L)	36	36	36	32	28	15	6	4	13	23	32	32
05Z (23L)	34	33	33	29	23	11	3	3	11	21	30	32
04Z (22L)	31	30	28	23	16	6	2	2	9	18	27	30
03Z (21L)	30	27	22	19	13	5	2	2	8	16	22	28
02Z (20L)	27	27	21	13	12	4	2	2	7	14	19	27
01Z (19L)	26	24	21	15	11	3	2	2	7	13	18	25
00Z (18L)	26	24	21	14	10	3	2	2	7	13	17	23

Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec





CEILING CLIMO

(< 1,000 Ft)



% Ceiling < 1000 ft

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	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
23Z (17L)	14	11	9	4	2	1	0	0	3	4	8	14
22Z (16L)	15	11	7	4	2	1	0	0	3	5	8	13
21Z (15L)	15	12	9	5	2	1	0	0	3	5	8	14
20Z (14L)	16	13	10	5	1	1	0	1	3	6	8	15
19Z (13L)	18	15	11	6	2	1	0	1	3	8	10	15
18Z (12L)	20	17	13	8	3	1	1	1	5	9	10	16
17Z (11L)	23	21	16	10	5	2	1	1	6	10	13	19
16Z (10L)	25	25	20	13	7	3	2	2	7	13	17	22
15Z (09L)	26	27	22	19	11	5	3	3	11	19	21	24
14Z (08L)	27	28	24	23	15	9	6	5	15	24	24	24
13Z (07L)	26	29	24	24	20	12	8	7	16	24	23	24
12Z (06L)	25	27	24	21	20	11	8	6	15	24	21	23
11Z (05L)	24	24	21	18	19	12	7	5	12	18	19	22
10Z (04L)	26	23	19	16	16	9	7	4	12	16	19	21
09Z (03L)	25	23	19	14	12	7	5	4	11	16	17	20
08Z (02L)	23	20	17	13	10	5	3	3	10	13	16	20
07Z (01L)	21	18	17	10	8	3	3	2	8	12	15	18
06Z (00L)	20	17	15	9	7	3	2	2	6	9	13	18
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04Z (22L)	17	15	12	7	3	1	1	1	4	8	12	16
03Z (21L)	16	13	10	6	3	1	0	1	4	7	10	15
02Z (20L)	14	15	9	5	3	1	0	1	4	6	10	14
01Z (19L)	14	13	9	5	2	1	0	1	3	5	9	13
00Z (18L)	14	12	9	5	2	1	0	1	4	5	8	12





VISIBILITY CLIMO (< 3 SM)



% Visibility < 3 SM

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23Z (17L)	10	7	5	2	2	1	1	1	3	3	4	10
22Z (16L)	9	7	4	2	2	1	1	1	2	2	4	8
21Z (15L)	8	7	5	2	3	1	1	1	2	2	4	8
20Z (14L)	9	6	5	3	1	1	1	1	3	2	4	8
19Z (13L)	11	7	6	4	1	1	1	1	2	3	5	9
18Z (12L)	10	7	8	3	2	1	1	1	2	3	4	9
17Z (11L)	14	10	8	4	2	1	1	0	3	4	6	9
16Z (10L)	16	13	9	6	4	1	1	1	3	6	9	13
15Z (09L)	18	16	12	9	5	1	1	1	4	10	13	16
14Z (08L)	19	18	15	11	6	2	1	2	6	14	16	16
13Z (07L)	18	19	15	14	9	4	3	3	9	17	17	15
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11Z (05L)	14	13	12	8	8	5	3	2	4	9	13	12
10Z (04L)	16	13	10	7	5	3	2	1	4	7	10	12
09Z (03L)	15	13	9	6	3	2	2	1	3	7	10	11
08Z (02L)	13	11	9	5	2	1	1	0	2	6	8	10
07Z (01L)	13	10	9	3	3	1	1	1	2	5	7	11
06Z (00L)	13	9	7	4	3	1	0	0	1	4	6	11
05Z (23L)	12	7	6	4	2	1	0	0	1	4	6	12
04Z (22L)	11	8	5	4	1	1	0	0	1	4	6	11
03Z (21L)	10	7	5	3	1	1	0	0	2	3	5	9
02Z (20L)	8	8	5	2	1	1	0	1	2	3	5	9
01Z (19L)	9	7	6	3	2	1	0	0	2	2	4	8
00Z (18L)	9	8	6	3	2	1	0	0	3	2	4	7

Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec





VISIBILITY CLIMO

(< 1/2 SM)



% Visibility < 1/2 SM

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 Asheville, NC 28801-5002

23Z (17L)	1	1	0	0	0	0	0	0	0	0	1	2
22Z (16L)	1	1	0	0	0	0	0	0	0	0	0	1
21Z (15L)	1	1	0	0	0	0	0	0	0	0	0	1
20Z (14L)	1	1	0	0	0	0	0	0	0	0	0	1
19Z (13L)	1	0	0	0	0	0	0	0	0	0	0	2
18Z (12L)	1	0	1	0	0	0	0	0	0	0	1	2
17Z (11L)	2	1	2	0	0	0	0	0	0	0	1	2
16Z (10L)	3	2	2	0	0	0	0	0	0	0	2	3
15Z (09L)	5	3	2	1	0	0	0	0	0	1	3	3
14Z (08L)	6	4	3	1	1	0	0	0	0	3	5	5
13Z (07L)	5	5	4	2	1	0	0	0	1	3	5	5
12Z (06L)	5	4	4	2	2	1	0	0	2	2	5	4
11Z (05L)	4	4	2	1	1	1	0	0	1	1	4	3
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09Z (03L)	4	3	2	1	0	0	0	0	0	1	2	3
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06Z (00L)	4	2	1	1	0	0	0	0	0	1	1	3
05Z (23L)	3	1	1	0	0	0	0	0	0	1	2	3
04Z (22L)	3	1	1	0	0	0	0	0	0	1	1	2
03Z (21L)	2	1	0	0	0	0	0	0	0	1	1	2
02Z (20L)	2	1	0	0	0	0	0	0	0	1	0	2
01Z (19L)	2	1	0	0	0	0	0	0	0	0	0	2
00Z (18L)	1	1	0	0	0	0	0	0	0	0	1	2
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec





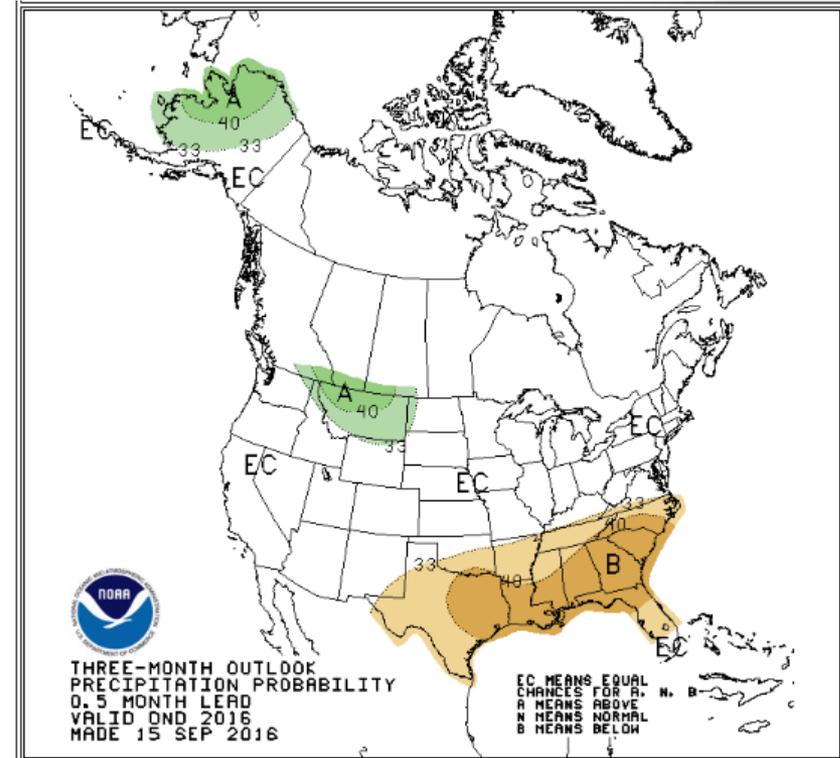
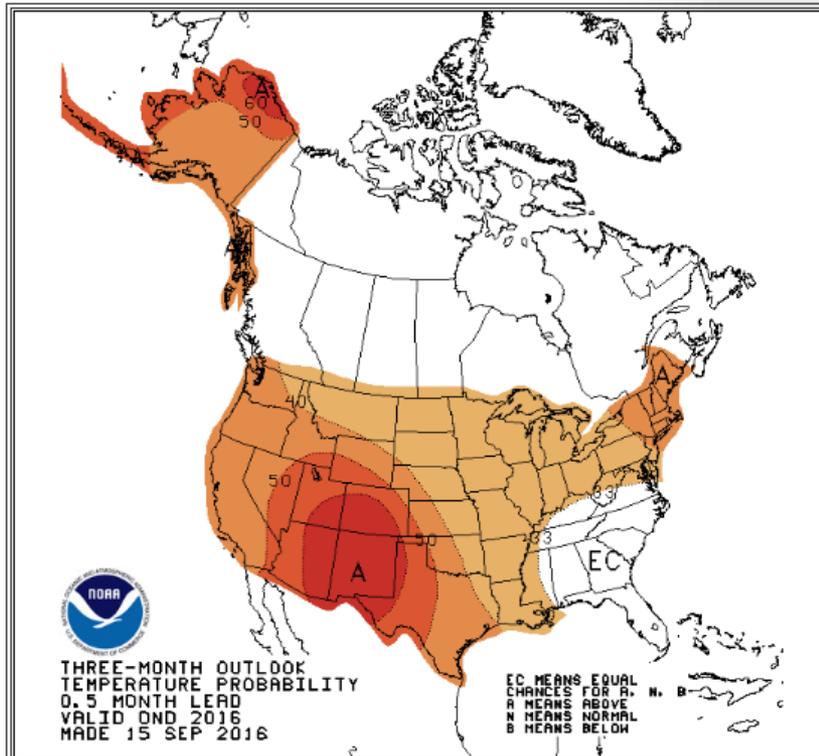
Outlook 2016

Oct - Nov - Dec



Temperature

Precipitation



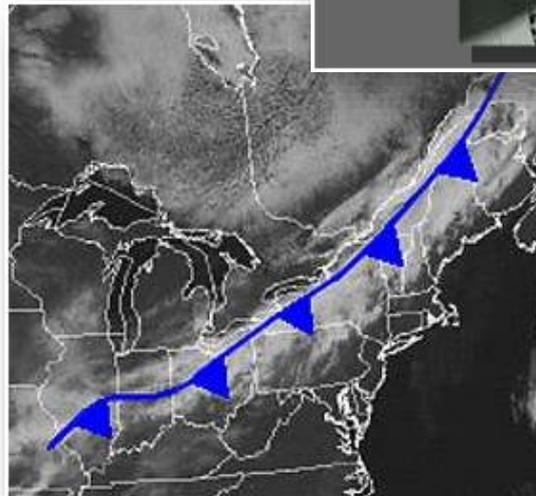
✓ Generally warmer and drier than normal



Winter Hazards



- ☞ Turbulence
- ☞ Icing
- ☞ Low-Level Wind Shear
- ☞ Reduced Visibility
- ☞ Colder Temps



Turbulence





TURBULENCE



- ☞ Turbulence is one of the most unexpected aviation hazards to fly through and one of the most difficult to forecast
- ☞ Caused by *abrupt, small-scale variations in wind speed and direction*
- ☞ **Pilot Reports (PIREPS) are crucial!**
 - May trigger advisories to help warn others
 - Always include location, time, intensity, flight level, and aircraft type

Gray METRO: UHF 306.5





TURBULENCE

(Continued)



☞ May occur any time without warning

- Directly proportional to speed:

Faster aircraft=more turbulence experienced

- Inversely proportional to weight:

Heavier aircraft=less turbulence experienced

- Directly proportional to wing area

Greater distance between leading and trailing edge of wing=more turbulence





TURBULENCE

(Continued)



- ☞ Intensities based upon Airspeed & Climb Rate
 - Light: Slight, erratic changes in altitude and/or attitude (pitch, roll, yaw)
 - Moderate: Greater intensity than light, but aircraft remains in positive control
 - Severe: Large abrupt changes in altitude/attitude, large variations in airspeed; control becomes very difficult
 - Extreme: Aircraft violently tossed around with control virtually impossible; may cause structural damage





TURBULENCE

(Continued)



- ☞ Also caused by strong wind over rough terrain (*Fort Hood area not considered rough terrain*)
 - Rougher terrain = More turbulence
 - Higher wind speed = More Turbulence
- ☞ Frontal Transition Zone Turbulence
- ☞ Jet Stream (CAT)





TURBULENCE

(Continued)



- ☞ **Wake Turbulence:**
Caused by ‘Wingtip Vortices’
- ☞ **Virtually all aircraft produce wingtip vortices while in flight, even rotary wing aircraft; this is especially apparent with heavier aircraft**





LOW-LEVEL WIND SHEAR (LLWS)



- Rapid change in wind direction or speed below 2,000 feet AGL
- May occur with or without Turbulence
- Causes sudden changes in aircraft performance and attitude
- Common occurrence in Central Texas associated with night-time low-level jet
- Can occur with fronts and thunderstorm gust fronts (microburst)

Gray METRO: UHF 306.5

ICING



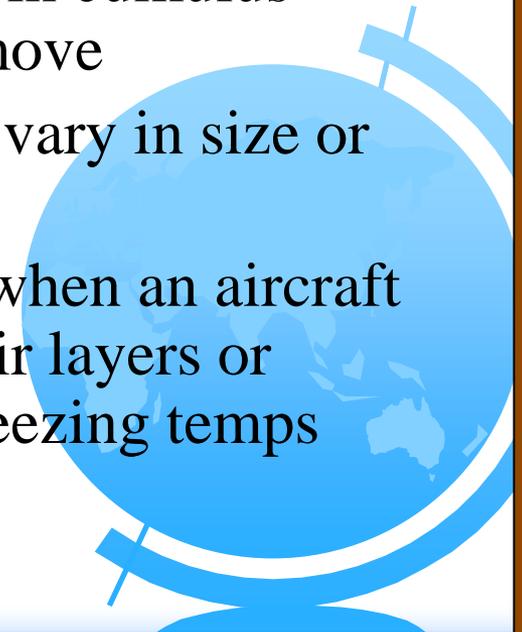


ICING



☞ Types of Icing

- **Rime**: Rough, milky, and opaque--similar to ice in a refrigerator; associated with stratiform clouds; lighter in weight than clear ice
- **Clear**: Glossy and clear; formed by slow freezing of large supercooled water droplets; found in cumulus clouds and freezing precip—hard to remove
- **Mixed Rime and Clear**: Water droplets vary in size or mixed rain and snow; can form rapidly
- **Frost**: Light feathery deposit occurring when an aircraft is descending from cold air to warmer air layers or parked on the surface and exposed to freezing temps





ICING

(Continued)



- ➔ Adds weight, blocks air flow into engine
- ➔ Destroys efficiency of airfoil by altering its shape—when lifting qualities of the wing are gone, the aircraft can no longer remain airborne!
- ➔ Icing on rotary-wing aircraft may cause vibration, loss of efficiency or control; rotational speed of main and tail rotors can produce rapid icing growth on certain surfaces
- ➔ Shedding of ice can result in structural damage (FOD) or injury to ground personnel



VISIBILITY & CEILINGS

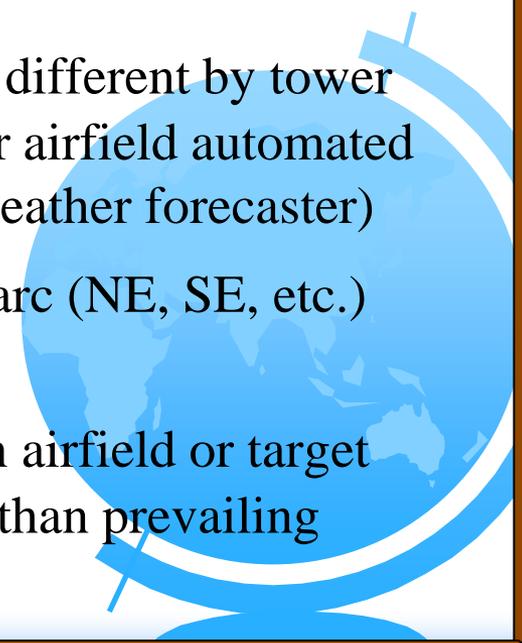




Visibility and Ceilings



- ☞ Historically, poor visibilities & low ceilings have contributed to many aircraft accidents
- ☞ Types of visibility:
 - **Prevailing:** greatest horizontal visibility observed throughout at least half of the horizon circle
 - **Tower:** prevailing visibility determined to be different by tower personnel (*mandatory augmentation criteria for airfield automated meteorological observing system (AMOS) by weather forecaster)
 - **Sector:** visibility within a specific 45 degree arc (NE, SE, etc.) of the horizon circle
 - **Slant Range:** angle from which you view an airfield or target from above ground vantage point—often lower than prevailing visibility





Visibility and Ceilings

(Continued)



☞ Ceilings:

- Height above earth's surface (AGL) of the lowest (thin or opaque) layer
 - ◆ Broken
 - ◆ Overcast
 - ◆ Vertical visibility into surface-based total obscuration (indefinite ceiling)





Fog



- ☞ Surface-based cloud composed of either water droplets or ice crystals
- ☞ Ideal fog conditions:
 - Small temperature dew point spread 1 to 2 C
 - Abundant condensation nuclei
 - Light surface wind
 - Cooling land surfaces, warmer air above
- ☞ Rarely forms at Fort Hood under west to north wind





Fog

(Continued)



☞ Reduces Visibility and Ceilings

– Patchy Fog

- ◆ Visibility can be severely restricted; 1/4 mile away it can be unrestricted
- ◆ Usually appears in low lying areas
- ◆ Not very thick
- ◆ **Hardest to forecast**

– Wide-spread Fog

- ◆ Large continuous even fog
- ◆ Usually at least 800 ft thick





Weather Alerts



WEATHER WATCHES



- ☞ Special notice for ***potential*** of environmental conditions/threats of such intensity as to pose hazard to life or property
 - Issued for *Fort Hood Reservation and Western Training Area (WTA)*
 - Valid times and area described in the text
- ☞ **Command decision on whether or not operations are altered (FHR95-1)**



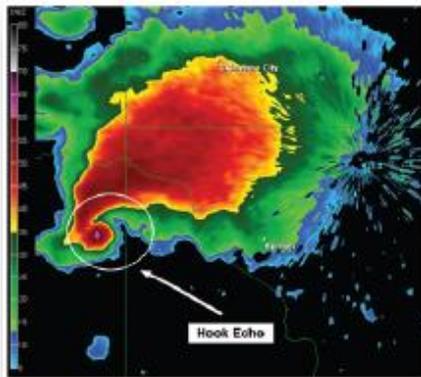


III ARMORED CORPS



WEATHER WARNINGS

- ☞ Special notice when an established weather condition/threat of such intensity as to pose a hazard to life or property is **occurring or is expected to occur (*imminent*)**
 - Take actions to protect property and life
 - Valid times and area described in the text





WEATHER ADVISORIES



☞ Observed Advisories provide specific notice to an operational agency of weather phenomena *impacting operations*

- Issued when condition is observed by Doppler weather radar, weather sensors, or PIREPs
- Valid for area described in the text
- Valid “Until Further Notice” and will be cancelled when the condition is no longer occurring





Fort Hood Reservation

Watch / Warning / Advisory

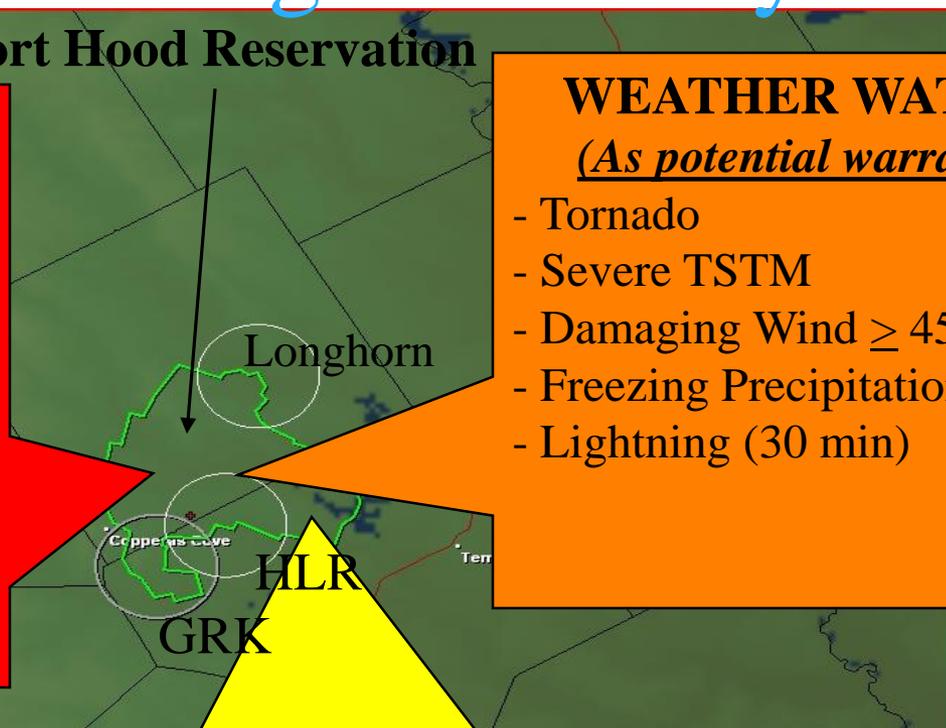


WEATHER WARNINGS:

- Tornado (15 min)
- Severe TSTM (1 hr)
- Damaging Wind \geq 45 kts (1 hr)
- Moderate (Strong) TSTM (1 hr)
- High Wind 35-44 kts (1 hr)
- Freezing Precipitation (1 hr)
- Heavy Rain (1 hr)
- Heavy Snow (1 hr)
- Lightning (Observed)

Note: Lightning Warning will specify if it includes RGAAF and HAAF or not

Fort Hood Reservation



WEATHER WATCH *(As potential warrants)*

- Tornado
- Severe TSTM
- Damaging Wind \geq 45 kts
- Freezing Precipitation
- Lightning (30 min)

OBESERVED WEATHER ADVISORIES:

- LLWS** below 2K ft w/i 50nm Fort Hood
- MDT Icing** or greater below 10K ft w/i 50nm Fort Hood
- MDT Turb** or greater below 10K ft w/i 50 nm Fort Hood
- Surface Wind** 25 knots or greater Fort Hood Reservation



Fort Hood Reservation



☞ Severe Thunderstorm

- Damaging wind ≥ 45 knots and/or
- Damaging hail $\geq \frac{1}{2}$ inch in diameter

☞ Moderate (Strong) Thunderstorm

- High wind ≥ 35 knots to < 45 knots and/or
- Large hail $\geq \frac{1}{4}$ inch to $< \frac{1}{2}$ inch

☞ **IMPORTANT: Refer to FH Reg 95-1 for specific severe weather plans/actions**





WESTERN TRAINING AREA

III ARMORED CORPS

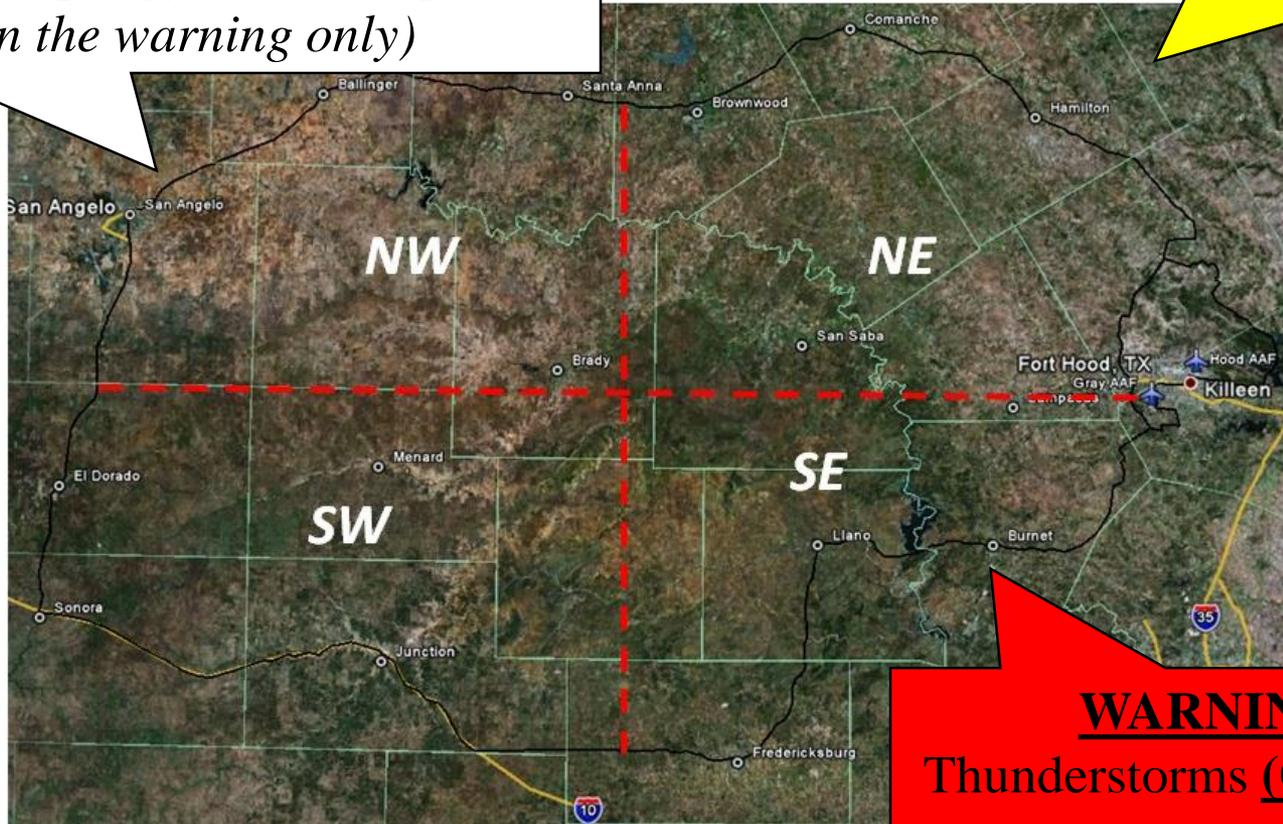


Watch / Warning

WTA

Divided into 4 sectors
*(Text will specify area(s) impacted
in the warning only)*

WEATHER WATCH
Thunderstorms (2 hr advance notice)



WARNING:
Thunderstorms (Observed)



PILOT REPORTS (PIREPs)



☞ Provide forecasters additional observations for the local flying area

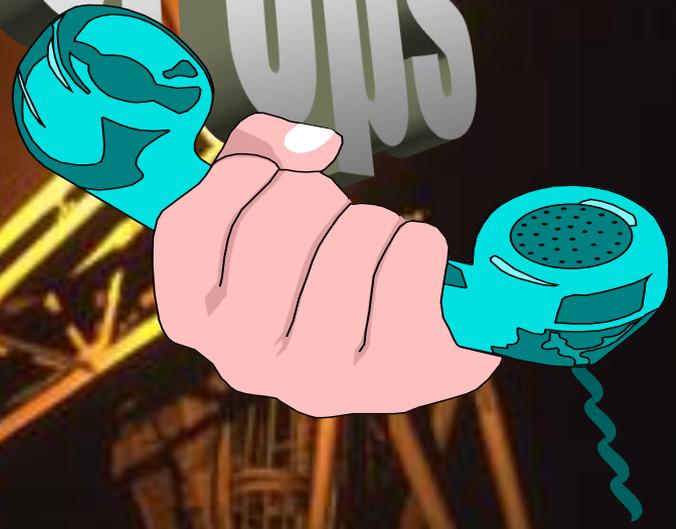
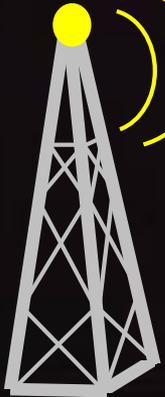
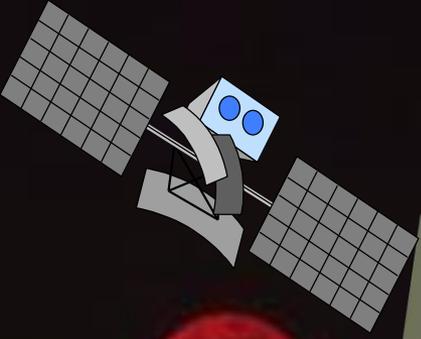
- Thunderstorms
- Turbulence
- Icing
- Low-Level Wind Shear (LLWS)
- Cloud conditions
- Wind, temperature, etc..
- Visibility, weather (i.e., fog, rain, etc.)

☞ PMSV frequencies: **UHF 306.5**

PLEASE CALL US!!!



Weather Ops





RGAAF Weather Station Operations



- ➔ RGAAF Weather Station located on West Fort Hood, Airfield Ops Bldg 90029:
 - 24/7 Operations
 - Usually 2 Forecasters Mon-Fri 0700-2300L
 - 1 Forecaster Nights, Weekends, & Holidays
 - KGRK / KHLR - Automated Weather Observations—augmented IAW FHR115-1
 - Flight Weather Briefings

Gray METRO: UHF 306.5





FLIGHT WEATHER BRIEFINGS



- ➡ **IMPORTANT:** Aircrews must call 288-9620/9400 after receiving the brief for briefer's initials, brief & void times--otherwise briefing is not official per FHR115-1
- ➡ Flight weather briefings will *normally* not be provided any earlier than 2 hours prior to takeoff

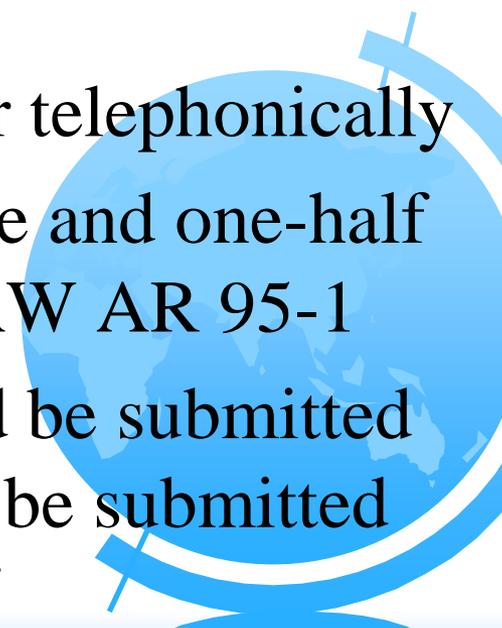




FLIGHT WEATHER BRIEFINGS (FHR95-1)



- ☞ All VFR/IFR DD Form 175 flight plans require a weather brief from an appropriate weather facility IAW AR 95-1
- ☞ Aviators are the only person(s) authorized to receive an official weather brief
- ☞ Weather briefings may be in person or telephonically
- ☞ In all cases, a weather void time of one and one-half hours apply; time may be extended IAW AR 95-1
- ☞ Requests for a DD Form 175-1 should be submitted **24 hours** prior to takeoff and will not be submitted any later than **2 hours** prior to takeoff





FLIGHT WEATHER BRIEFINGS (FHR95-1)



☞ **IFR:**

- A local weather brief [verbal] is authorized for all IFR flights within a 50 nautical miles radius of RGAAF
- DD Form 175-1 is required when outside a 50 nautical mile radius of RGAAF

☞ **Helicopter VFR:**

- A local weather brief [verbal] is authorized for all flights within the local flying area as defined by this regulation
- A DD Form 175-1 is required for all VFR flights outside the local flying area as defined by this regulation
- A DD Form 175-1 may be requested for any VFR flight





3D Weather Squadron Homepage

www.hood.army.mil/3ws





Fort Hood Home Page

INSTALLATION STATUS: Welcome to Fort Hood's updated web presence - designed to enhance

HOOD A-Z HOOD FMWR IMCOM FORSCOM CENTCOM ARMY HOME DEFENSE LINK WEATHER FA ARMY A-Z AKO

HOOD.ARMY.MIL
WELCOME TO FORT HOOD, TEXAS

...The Great Place

Tuesday, September 23, 2008 2:31:04 PM

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Fort Hood Weather Center - Windows Internet Explorer provided by US Army - Fort Hood NIPRNet

http://www.hood.army.mil/weather/weather.htm

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Fort Hood Weather Center

and climate forecasts and warnings for the United States, its territories, adjacent waters and ocean areas, for the protection of life and property and the enhancement of the national economy. NWS data and products form a national information database and infrastructure which can be used by other governmental agencies, the private sector, the public, and the global community. Get the latest Fort Hood weather from any Internet portal by clicking on:

Further, complaints must be promptly filed within IG, command, or other grievance channels. IG's may dismiss a complaint if there is no FWA, recognizable wrong or violation of law, regulation, or policy. Also, complaints should be received in a timely manner.

<http://www.srh.noaa.gov/forecast/MapClick.php?CityName=Killeen&state=TX&site=FWD>

3d Weather Squadron

The squadron is the largest base- or post-level weather unit in the Air Force. The support provided by the squadron is as diverse as its history and that of the Army customers it supports. For example, the squadron maintains a 24-hour observing and forecasting section at Robert Gray Army Airfield with automated observing at Hood Army Airfield.

The latest weather information for professional aviators - or anyone with AKO access - is online at: <http://www.hood.army.mil/3ws>.

NOAA Storm Watch

You'll find links to the latest weather forecasts around the USA. Track storms through NOAA weather satellites, get the latest weather maps and learn how to protect yourself and your community from severe weather. Hurricane, drought and tornado information can be found at the listed NOAA Web sites. Check it out online at: <http://www.noaa.gov/stormwatch/>.

National Hurricane Center

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Civilian Spotlight Former Dallas Cowboys linebacker Eugene "The Hitting Machine" Lockhart visited wounded warriors

CAMP TAJI, Iraq area defense set CAB, 4th Inf Div perimeter security guard tower on C sergeant of the responsible for CAB's assigned necessary equip duties necessary brigade's Soldiers from enemy attac

< Previous

Soldier dead By Heather Graham, Ser Specialist Aar Mulberry, Ind., a found dead fol Thursday by Fort his Pershing Park Allmandinger's not home when t

Click here, then here





3D Weather Squadron Homepage

III ARMORED CORPS



Current MWP (Flimsy)

Misc Briefings

Current WWAs

Current Obs

3rd Weather Squadron - View page in Internet Explorer provided by US Army - Fort Hood NIPRNet

http://www.hood.army.mil/3ws/

3rd Weather Squadron

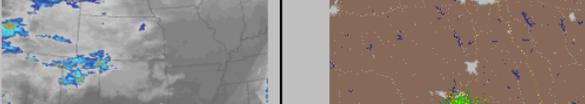


3d Weather Squadron

Fort Hood, Texas

U.S. AIR FORCE **"2010 AIR FORCE OUTSTANDING BATTLEFIELD WEATHER SQUADRON"** U.S. ARMY

HOME WEDNESDAY, JUNE 29

FORT HOOD WEATHER	IMAGES BELOW DO NOT DEPICT ACTUAL CONDITIONS CLICK ON THUMBNAILS FOR CURRENT INFORMATION		BRIEFINGS
<p>*FORT HOOD WEATHER WATCHES, WARNINGS, AND ADVISORIES (WWA)</p> <p>Click above for active Weather Watches, Warnings, and Advisories for Fort Hood</p> <p>*KGRK OBSERVATION & TAF</p> <p>*KHLR OBSERVATION</p> <p>* Denotes .mil access required</p>	MISSION EXECUTION FORECAST/5-DAY FORECAST		SEMI-ANNUAL AVIATION WEATHER BRIEF (SUMMER)
AVIATION WEATHER	Mission Execution Forecast	5-Day Forecast	SEMI-ANNUAL AVIATION WEATHER BRIEF (WINTER)
PILOT REPORTS (PIREPS)	SATELLITE/RADAR/LIGHTNING/HAZARDS		AIR TRAFFIC CONTROL WEATHER TRAINING
AIRMETS/SIGMETS	Satellite Imagery	Fort Hood Doppler Radar	MANUAL WEATHER OBSERVING - JET
SPACE WEATHER IMPACTS			DRY-LINE FORECASTING 3 WS MTRF/RIRF DRYLINE EXAMPLE
CLICK BELOW FOR FLIGHT WEATHER BRIEFINGS OR OTHER REQUESTS FOR WEATHER SUPPORT:			TURBULENCE--AIRCRAFT CATEGORIES
WEATHER STATION E-MAIL RGAAF PMSV (Gray Metro):			RADAR IMAGES TORNADO 25APR11
			PERFORMANCE METRICS: HOW WELL ARE WE FORECASTING?
			DoD WEATHER
			*JOINT ARMY-AF WEATHER INFORMATION NETWORK (JAAWIN)





3 WS Mission Weather Product (MWP) - Flimsy



- ➡ Located on our web page:
www.hood.army.mil/3ws
- ➡ Updated 3 times daily (0000Z, 0800Z, 1600Z)
- ➡ ***IMPORTANT: Check 3 WS website periodically for changes especially during inclement weather***





MWP (3 WS Flimsy)



3d WEATHER SQUADRON - FORT HOOD MISSION PLANNING / EXECUTION FORECAST														
DATE:	15sep05		VALID TIME:	15000Z - 15000Z		REF #:	01	B	REV #:		TIME:	306-5 LHM		
FORECASTER:	SRA SMITH		3d WS Homepage:	www.hood.army.mil/3ws/		ICGAF METHOD:	306-5 LHM							
SOLAR/LUNAR DATA						SPACE WEATHER IMPACTS								
DATE	BMINT	SR	SS	EENT	MR	MS	ILLUM	MOON ANGLE 230°	GPS	C		Unlikely Degradation		
15sep05	0644L	0208L	1954L	3047L	0720L	3015L	4%	DAYLIGHT	LHF	C		Unlikely Degradation		
15sep05	0645L	0208L	1953L	3048L	0815L	3048L	3%	DAYLIGHT	HF	C		Unlikely Degradation		
FLIGHT LEVEL WINDS (KNOTS) AND TEMPERATURES (°C) - FORT HOOD RESERVATION														
5000' AGL	10000' AGL	30000' AGL	50000' AGL	50000' MSL	60000' MSL	80000' MSL	100000' MSL							
15005	327C	15095	247C	15040	257C	15095	277C	17005	187C	17005	197C	19000	097C	
FLIGHT HAZARDS FOR LOCAL FLYING AREA (LAW FHR 95-1)														
HAZARD SEVERE TURBULENCE, HEAVY PRECIP, LIGHTNING & WIND SHEAR EXPECTED IN A NEAR 100000'											PLEASE PROVIDE FEEDBACK			
CAT II ACT: 04C4L, 04C4R // CAT I ACT: 04H4L, 04H4R, 04G5, 04G5R // CAT I ACT: 04Y (Shadler)														
HAZARDS			INTENSITY/COVERAGE			LEVELS (MSL)			LOCATION					
THUNDERSTORMS	ISOLATED		MAX TOPS			450			EAST OF 15S APT 48Z					
ICING	LGT RIME		190 - 240						SOUTH OF A LINE S/JT - AUS - HOU					
TURBULENCE (CAT II)	LGT		SFC-090						ENTIRE LOCAL FLYING AREA APT 15Z					
LLWS	09-15Z		SFC-020 AGL						WITHIN 50NM OF FORT HOOD					
90									MSL					
FORT HOOD RESERVATION AREA FORECAST (INCLUDES ICGAF, HAA, LONGHORN AND SHORTHORN AUXILIARY AIRFIELDS)														
VALID TIME	MIN CG (AGL)	MIN VIS (SM)	SIG WX	SURFACE WIND	MAX TEMP °C	MAX DPT °F	REL H %	MIN ALSTG	ICGAF PA	MAX PA	ICGAF MA	HAA PA	HAA MA	
15000Z - 15000Z	001	1/4	FG	10005	33	73	23	100%	26.9Z	1015 ft	2530 ft	925 ft	2423 ft	
15000Z - 15000Z	001	1/4	FG	10005	33	73	23	100%	26.9Z	1015 ft	2530 ft	925 ft	2423 ft	
15000Z - 15000Z	003	1/2	FG	10007	34	75	23	94%	26.9Z	1015 ft	2560 ft	925 ft	2537 ft	
15000Z - 15000Z	005	7		10015	G30	37	81	31	70%	26.9Z	1015 ft	3071 ft	925 ft	2939 ft
15000Z - 15000Z	005	7		10015	G25	38	82	30	53%	26.9Z	1034 ft	3203 ft	943 ft	3117 ft
15000Z - 15000Z	005	7		10015	G25	38	82	30	53%	26.8Z	1053 ft	3252 ft	982 ft	3140 ft
FORT HOOD PLAIN LANGUAGE FORECAST / OUTLOOK FOR THE NEXT 24 HOURS														
DENSE MORNING FOG AND LIGHT EAST WIND WILL GIVE WAY TO PARTLY SUNNY SKIES; BRIZELY SOUTH WIND AT 15 TO 30 MPH GUSTING 30 TO 35 MPH BY LATE MORNING INTO THE AFTERNOON. HIGH TEMPERATURE TODAY IN THE MID TO UPPER 80S. EXPECT PARTLY CLOUDY SKIES EARLY THIS EVENING BECOMING MOSTLY CLOUDY LATE WITH SLIGHT CHANCE OF SCATTERED RAINSHOWERS AFTER MIDNIGHT. DIMINISHING WIND AFTER SUNSET FROM THE SOUTHWEST AT 10 TO 15 MPH. MILD AND HUMID OVERNIGHT WITH LOW TEMPERATURE IN THE LOW 70S.														
TEST FLIGHT AREA (TFA) // (LAW FHR 95-1)				WESTERN TRAINING AREA // (LAW FHR 95-1)										
VALID TIME	0800 - 1200Z	1200 - 1600Z	1600 - 2000Z	0800 - 1200Z	1200 - 1600Z	1600 - 2000Z								
LOCATION	TFA II	TFA IV	TFA V	TFA VI	NE	SE	SW	NW						
MIN CG (AGL)	030	030	030	030	030	030	NONE	NONE						
MIN VIS (SM)	3	3	1/4	1/4	MIN VIS (SM)	1	1	7	7					
SIG WX	FG	FG	FG	FG	SIG WX	FG	FG							
SFC WIND	10005	10005	10005	10005	SFC WIND	10005	10005	19010	19010					
VALID TIME	1200 - 1600Z	1600 - 2000Z	2000 - 0000Z	0000 - 0400Z	0400 - 0800Z	0800 - 1200Z								
LOCATION	TFA II	TFA IV	TFA V	TFA VI	NE	SE	SW	NW						
MIN CG (AGL)	030	030	003	003	MIN CG (AGL)	030	003	NONE						
MIN VIS (SM)	3	3	1/2	1/2	MIN VIS (SM)	3	3	7	7					
SIG WX	FG	FG	FG	FG	SIG WX	FG	FG							
SFC WIND	18015	G30	18015	G25	18015	G30	SFC WIND	18015	G25	18015	G25	19015	G25	
VALID TIME	1600 - 2000Z	2000 - 0000Z	0000 - 0400Z	0400 - 0800Z	0800 - 1200Z									
LOCATION	TFA II	TFA IV	TFA V	TFA VI	NE	SE	SW	NW						
MIN CG (AGL)	030	005	025	035	MIN CG (AGL)	030	035	NONE						
MIN VIS (SM)	7	7	7	7	MIN VIS (SM)	3	7	7						
SIG WX					SIG WX									
SFC WIND	18015	G25	18015	G25	SFC WIND	18015	G25	20015	G30	20015	G30			

3d Weather Squadron - Windows Internet Explorer
<http://www.hood.army.mil/3ws/>

3d Weather Squadron
 Fort Hood, Texas

U.S. AIR FORCE
 "2011 ACC OUTSTANDING BATTLEFIELD WEATHER SQUADRON"

PLEASE PROVIDE US FEEDBACK ON OUR MISSION WEATHER PRODUCTS!

NEW 3 WS MISSION PLANNING/EXECUTION FORECAST FLIMSYP

To contact us... 3 WS DIRECTORY

WEDNESDAY, JANUARY 30

WEATHER STATION E-MAIL

IMAGES BELOW DO NOT DEPICT ACTUAL CONDITIONS
 CLICK ON THUMBNAILS FOR CURRENT INFORMATION

FORT HOOD WEATHER
 *FORT HOOD WEATHER WATCHES, WARNINGS, AND ADVISORIES (WWA)
 Click above for active Weather Watches, Warnings, and Advisories for Fort Hood
 *KGRK OBSERVATION & TAF
 *KHLR OBSERVATION
 * Denotes .mil access required

MISSION WEATHER PRODUCTS (MWP)
 FORT HOOD FORECAST FLIMSYP
 FORT HOOD 5-DAY FORECAST
 Breakdown of Weather Impacts

AVIATION WEATHER
 FLIGHT REPORTS (PIREPS)
 AIRMETS/SIGMETS
 SPACE WEATHER IMPACTS
 CLICK BELOW FOR FLIGHT WEATHER BRIEFINGS OR OTHER REQUESTS FOR WEATHER SUPPORT:
 WEATHER STATION E-MAIL
 RGAAF PMSV (Gray Metro):
 WWS 306-5

SATELLITE/RADAR/LIGHTNING/HAZARDS
 SATELLITE
 CENTRAL TEXAS (FORT HOOD) RADAR

BRIEFINGS
 SEMI-ANNUAL AVIATION WEATHER BRIEF (SUMMER)
 SEMI-ANNUAL AVIATION WEATHER BRIEF (WINTER)
 AIR TRAFFIC CONTROL WEATHER TRAINING
 DAILY METCON QUESTION
 PERFORMANCE METRICS: HOW WELL ARE WE FORECASTING?
 DoD WEATHER
 *AIR FORCE WEATHER WEB SERVICES (AFW-WEBS)
 *26th OPERATIONAL WEATHER SQUADRON (OWS)
 *15th OPERATIONAL WEATHER SQUADRON (OWS)

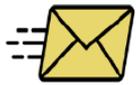
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www.hood.army.mil/3ws/Flimsy/MEF.pdf



MWP – Flight Hazards



HAIL, SEVERE TURB/ICING, HEAVY PRECIP, LIGHTNING & WIND SHEAR EXPECTED IN & NEAR T-STORMS					PLEASE PROVIDE FEEDBACK	
CAT III ACFT: MC-12, MQ-1C // CAT II ACFT: UH-60, AH-64, CH-47, UC-35, C-208 // CAT I ACFT: RQ-7 (Shadow) (TURBULENCE FORECASTS MUST BE CONVERTED FOR DIFFERENT CATEGORIES OF AIRCRAFT)						
HAZARDS	INTENSITY/COVERAGE	LEVELS (MSL)		LOCATION		
THUNDERSTORMS	ISOLATED	MAX TOPS	450	EAST OF I35 AFT 18Z		
ICING	LGT RIME	130 - 240		SOUTH OF A LINE SJT - AUS - HOU		
TURBULENCE (CAT II)	LGT	SFC-030		ENTIRE LOCAL FLYING AREA AFT 15Z		
LLWS	09-15Z	SFC-020 AGL		WITHIN 50NM OF FORT HOOD	MIN FREEZING LEVEL	
					130	MSL

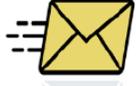
✎ Flight hazards are for the Local Flying Area as defined in FHR95-1 and are color coded for the threat based on table below

FLIGHT HAZARDS FOR LOCAL FLYING AREA IMPACT CRITERIA			
Criteria	Green	Amber	Red
Thunderstorms	None		Any
Icing	None	Light	≥ Moderate
Turbulence (CAT II)	None - Light	Moderate	≥ Severe
LLWS	None	Forecast and/or Observed	



MWP – Turbulence



HAIL, SEVERE TURB/ICING, HEAVY PRECIP, LIGHTNING & WIND SHEAR EXPECTED IN & NEAR T-STORMS					PLEASE PROVIDE FEEDBACK	
CAT III ACFT: MC-12, MQ-1C // CAT II ACFT: UH-60, AH-64, CH-47, UC-35, C-208 // CAT I ACFT: RQ-7 (Shadow) (TURBULENCE FORECASTS MUST BE CONVERTED FOR DIFFERENT CATEGORIES OF AIRCRAFT)						
HAZARDS	INTENSITY/COVERAGE	LEVELS (MSL)		LOCATION		
THUNDERSTORMS	ISOLATED	MAX TOPS	450	EAST OF I35 AFT 18Z		
ICING	LGT RIME	130 - 240		SOUTH OF A LINE SJT - AUS - HOU		
TURBULENCE (CAT II)	LGT	SFC-030		ENTIRE LOCAL FLYING AREA AFT 15Z		
LLWS	09-15Z	SFC-020 AGL		WITHIN 50NM OF FORT HOOD	MIN FREEZING LEVEL	
					130	MSL

- ☞ An aircraft's sensitivity varies considerably with its weight (amount of fuel, cargo, munitions, etc.), air density, wing surface area, wing sweep angle, airspeed, and aircraft flight "attitude"
- ☞ Turbulence forecasts are based on CAT II aircraft and must be converted for different categories of aircraft*

*** Air Force Handbook 11-203, Volume 2 / Army Training Circular 3-04.96-2
Weather for Aircrews – Products and Services**



MWP – Fort Hood Reservation Forecast



FORT HOOD RESERVATION AREA FORECAST (INCLUDES RGAAF, HAAF, LONGHORN AND SHORTHORN AUXILIARY AIRFIELDS)														
VALID TIME	MIN CIG (AGL)	MIN VIS (sm)	SIG WX	SURFACE WIND		MAX TEMP		MAX DPT	RH %	MIN ALSTG	RGAAF		HAAF	
						°C	°F				°C	MAX PA	MAX DA	MAX PA
1600Z - 1800Z	NONE	7		04012	G35	29	84	15	43%	29.92	1016 ft	3343 ft	925 ft	3231 ft
1800Z - 2000Z	030	3	BR	16027	G22	29	84	16	45%	29.90	1034 ft	3365 ft	943 ft	3253 ft
2000Z - 2200Z	020	2	BR	16027	G25	31	88	14	36%	29.88	1053 ft	3663 ft	962 ft	3550 ft
2200Z - 2400Z	015	2	BR	16027	G30	29	84	15	43%	29.50	1407 ft	3821 ft	1316 ft	3709 ft
0000Z - 0200Z	010	1 1/2	BR	16027	G38	25	77	16	57%	29.60	1313 ft	3166 ft	1222 ft	3054 ft
0200Z - 0400Z	004	1/4	FG	16010		21	70	16	73%	30.30	666 ft	1842 ft	575 ft	1729 ft

- Color coded based on forecast conditions/threat (2-hour blocks)
- Forecast is for worse case conditions for the time period
- PA and DA specifically for RGAAF and HAAF

FORT HOOD RESERVATION FORECAST IMPACT CRITERIA			
Criteria	Green	Amber	Red
Minimum Ceiling	≥ 5,000	< 5,000	< 500
Minimum Visibility	≥ 5sm	< 5sm	< 1/2sm
Significant <u>Wx</u>	None	Any Precip	TS and/or FZ
Winds	< 25 <u>kts</u>	≥ 25 <u>kts</u>	≥ 45 <u>kts</u>



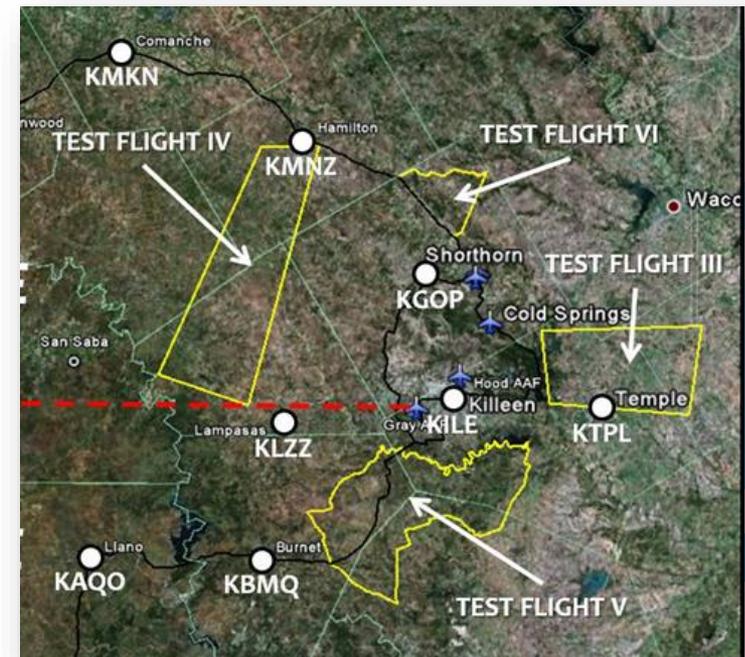
MWP – Maintenance Test Flight Areas



TEST FLIGHT AREA (TFA) // (IAW FHR 95-1)				
VALID TIME	1600 - 2000Z			
LOCATION	TFA III	TFA IV	TFA V	TFA VI
MIN CIG (AGL)	060	005	060	060
MIN VIS (SM)	5	1/4	1/4	5
SIG WX	BR	TSRA	BR	BR
SFC WND	14015 G27	14015 G50	14015	14015 G27
VALID TIME	2000 - 0000Z			
LOCATION	TFA III	TFA IV	TFA V	TFA VI
MIN CIG (AGL)	060	060	060	060
MIN VIS (SM)	5	5	5	5
SIG WX	BR	BR	BR	BR
SFC WIND	14015 G27	14015 G27	14015 G27	14015
VALID TIME	0000 - 0400Z			
LOCATION	TFA III	TFA IV	TFA V	TFA VI
MIN CIG (AGL)	060	060	060	060
MIN VIS (SM)	5	5	5	5
SIG WX	BR	BR	BR	BR
SFC WIND	14015 G27	14015 G27	14015 G27	14015 G27

- Primary Test Flight Areas as defined in FHR95-1
- 4-hour forecasts color-coded based on the table below

TEST FLIGHT AREAS & WTA FORECAST IMPACT CRITERIA			
Criteria	Green	Amber	Red
Minimum Ceiling	≥ 3,000	< 3,000	< 1,000
Minimum Visibility	≥ 3sm		< 3sm
Significant <u>Wx</u>	None	Any Precip	TS and/or FZ
Winds	< 35 <u>kts</u>	≥ 35 <u>kts</u>	≥ 45 <u>kts</u>





MWP – Western Training Area (WTA)



WESTERN TRAINING AREA // (IAW FHR 95-1)									
VALID TIME	1600 - 2000Z								
LOCATION	NE	SE	SW	NW					
MIN CIG (AGL)	060	060	060	060					
MIN VIS (SM)	5	5	5	5					
SIG WX	BR	BR	BR	BR					
SFC WND	14015	G27	14015	G27	14015	G27	14015		
VALID TIME	2000 - 0000Z								
LOCATION	NE	SE	SW	NW					
MIN CIG (AGL)	060	060	060	060					
MIN VIS (SM)	5	5	5	5					
SIG WX	BR	BR	BR	BR					
SFC WIND	14015	G27	14015	G27	14015	G27	14015	G27	
VALID TIME	0000 - 0400Z								
LOCATION	NE	SE	SW	NW					
MIN CIG (AGL)	060	060	060	060					
MIN VIS (SM)	5	5	5	5					
SIG WX	BR	BR	BR	BR					
SFC WIND	14015	G27	14015	G27	14015	G27	14015	G27	

- WTA as defined by FHR95-1 (separated into 4-sections)
- 4-hour forecasts color-coded based on the table below

TEST FLIGHT AREAS & WTA FORECAST IMPACT CRITERIA			
Criteria	Green	Amber	Red
Minimum Ceiling	≥ 3,000	< 3,000	< 1,000
Minimum Visibility	≥ 3sm		< 3sm
Significant <u>Wx</u>	None	Any Precip	TS and/or FZ
Winds	< 35 <u>kts</u>	≥ 35 <u>kts</u>	≥ 45 <u>kts</u>



5-Day Forecast



Fort Hood 5-Day Weather Outlook & Effects

March Climatology
Avg Hi: 72F Avg Low: 51F
Avg Precip: 2.5 Inches

FORT HOOD 5-DAY FORECAST AS OF 0300 HRS LOCAL 18 MAR 13

	Mon 18 Mar 13		Tue 19 Mar 13		Wed 20 Mar 13		Thu 21 Mar 13		Fri 22 Mar 13	
FORMU-631										
	MIST		PARTLY CLOUDY		PARTLY CLOUDY		PARTLY CLOUDY		MIST	
TEMPS	LO: 61F/16C	HI: 81F/27C	LO: 61F/16C	HI: 79F/26C	LO: 57F/14C	HI: 70F/21C	LO: 59F/15C	HI: 79F/26C	LO: 37F/3C	HI: 73F/23C
WINDS	WIND CHILL N/A	HEAT INDEX N/A	WIND CHILL N/A	HEAT INDEX 92F/33C						
SKY/VIS/WX CONDITIONS	12 KTS 5 MI / 1000FT	12G25 KTS 7 MI / NO CIG	9 KTS 7 MI / NO CIG	10 KTS 7 MI / 3000FT	10 KTS 5 MI / 3000FT	10 KTS 5 MI / NO CIG	13 KTS 5 MI / NO CIG	16 KTS 2 MI / 2200FT	12G18 KTS <1 MI / 300FT	15G25 KTS 2 MI / NO CIG
DA / PA	MAX DA: +2858FT	MAX PA: +1212FT	MAX DA: +2561FT	MAX PA: +1110FT	MAX DA: +2346FT	MAX PA: +916FT	MAX DA: +2773FT	MAX PA: +1212FT	MAX DA: +3947FT	MAX PA: +1389FT
SOLAR / LUNAR DATA	BMNT: 0645 SR: 0737 MR: 1159	EENT: 2033 SS: 1941 MS: 0121	BMNT: 0643 SR: 0735 MR: 1248	EENT: 2034 SS: 1942 MS: 0209	BMNT: 0642 SR: 0734 MR: 1340	EENT: 2035 SS: 1943 MS: 0255	BMNT: 0641 SR: 0733 MR: 1433	EENT: 2036 SS: 1943 MS: 0337	BMNT: 0639 SR: 0732 MR: 1528	EENT: 2036 SS: 1944 MS: 0417
ILLUM DATA	DARK PERIOD 5:24	MOON PERIOD 1:21 / 3:27	DARK PERIOD 4:34	MOON PERIOD 2:09 / 3:26	DARK PERIOD 3:47	MOON PERIOD 2:55 / 3:25	DARK PERIOD 3:04	MOON PERIOD 3:37 / 3:24	DARK PERIOD 2:22	MOON PERIOD 4:17 / 3:24
HELO	42%		50%		59%		68%		77%	
UAS	TU		TU		TU		TS		TS	
PERSONNEL	C W		TU		TU		C TS		C V V W	
VEHICLES	RH						P		V	
IR SENSORS	RH						P V		V	
TIME	00 06 12 18	00 06 12 18	00 06 12 18	00 06 12 18	00 06 12 18	00 06 12 18	00 06 12 18	00 06 12 18	00 06 12 18	00 06 12 18

W - Wind TU - Turbulence TS - Thunderstorms T - Temperature C - Ceiling P - Precipitation V - Visibility RH - Rel. Humidity
 FORECASTER : JWS
 FOR OFFICIAL USE ONLY

FOR PLANNING PURPOSES ONLY

Integrity - Service - Excellence



5-Day Forecast Impacts

FOR PLANNING ONLY			
OPERATION	FAVORABLE (No Degradation)	MARGINAL (Some Degradation)	UNFAVORABLE (Significant Degradation)
HELO	CIG >= 1000 FT	CIG 500 - 999 FT	CIG < 500 FT
	VIS >= 4800 METERS	VIS 0800 - 4799 METERS	VIS < 0800 METERS
	WIND < 35 KTS	WIND 35 - 44 KTS	WIND >= 45 KTS
			LGT OR MDT OR SVR TSTM
			LGT OR MDT OR HVY FZ PRECIP
		MDT TURB	SVR TURB
UAS	CIG >= 5000 FT	CIG 3000 - 4900 FT	CIG < 3000 FT
	VIS >= 8000 METERS	VIS 4800 - 6000 METERS	VIS < 4800 METERS
	WIND < 25 KTS		WIND >= 25 KTS
		LGT OR MDT PRECIP	HVY PRECIP
			LGT OR MDT OR SVR TSTM
			LGT OR MDT OR HVY FZ PRECIP
PERSONNEL	TEMP 33 - 84 F	TEMP < 33 F	TEMP <= -25 F
		TEMP >= 85 F	TEMP >= 95 F
	LGT PRECIP	MDT PRECIP	HVY PRECIP
			LGT OR MDT OR SVR TSTM
			HEAVY PRECIP
			MDT OR HVY FZ PRECIP
VEHICLES	LGT PRECIP	MDT PRECIP	
		LGT FZ PRECIP	
	TEMP 01 - 104 F	TEMP < 1 F	
		TEMP > 104 F	
VIS SYSTEMS	VIS >= 3200 METERS	VIS 1000 - 3199 METERS	VIS < 1000 METERS
	LGT PRECIP	MDT PRECIP	HVY PRECIP
	TEMP < 100 F	TEMP >= 100 F	
	REL HUMIDITY < 80%	TEMP < -25 F	
		REL HUMIDITY >= 80%	
IR SENSORS	VIS >= 3200 METERS	VIS < 3200 METERS	
	LGT PRECIP	MDT PRECIP	HVY PRECIP
	TEMP 20 - 125 F		TEMP > 125 F
	REL HUMIDITY < 80%		TEMP < -25 F
			REL HUMIDITY >= 80%

FHR115-1





Forecast Performance Metrics



- How well are we forecasting mission impacting weather?
- **Best measure of our performance is direct feedback from aircrews:**
 - Click on “Feedback Icon” on flimsy; send an E-mail
 - Complete Flight Weather Briefing Feedback Form on our webpage or faxed with all DD175-1s
 - Call RGAAF weather station NCOIC at 288-9166
- We’ll take good and bad comments!!!





Monthly Performance Metrics



Check out our monthly performance reports on our web site: www.hood.army.mil/3ws/MEFVERFeedback.ppt



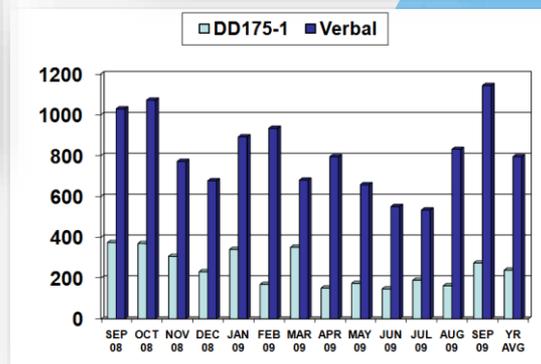
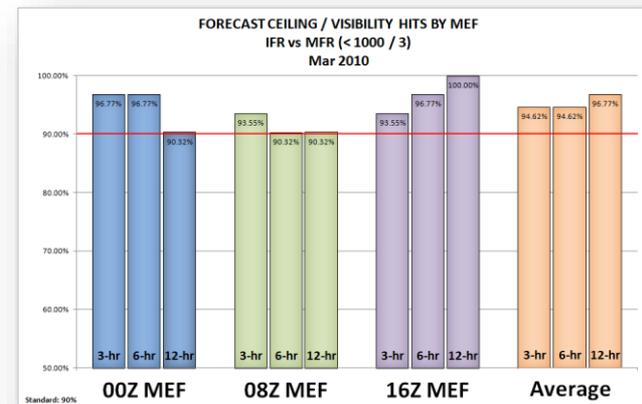
3^d Weather Squadron

Integrity - Service - Excellence



FORECAST PERFORMANCE METRICS

RGAAF Weather Station
August 2011





Objective Verification



☞ In addition to direct feedback we employ an objective method to measure (verify) our forecast performance:

☞ We selected three key operational parameters:

☞ **Ceiling / Visibility < 1000 feet / 3 miles (IFR)**

☞ **Ceiling / Visibility < 500 feet / 1/2 mile (HLR Airfield Minimums)**

☞ **Thunderstorms**

☞ We measure the accuracy of each Fort Hood Reservation Forecast (Flimsy) published on the 3 WS web page





Did the Forecast or Weather Impact the Mission?



- ☞ Did we forecast **“GO”** weather for your mission and weather was a **“GO”** -- mission completed
- ☞ Did we forecast **“GO”** weather for your mission and weather was a **“NO GO”** -- mission cancelled or changed due to un-forecast weather
- ☞ Did we forecast **“NO GO”** weather for your mission and weather was **“GO”**-- mission cancelled or changed due to forecast (*lost opportunity or needless change*)
- ☞ Did we forecast **“NO GO”** weather for your mission and weather was **“NO GO”** --mission cancelled or changed due to forecast/weather (*if inserted early in planning process this situation can prevent wasted time and enhance planning process*)





POCs



- 3 WS Commander: **288-1313**
- 3 WS Operations Officer: **287-7397**
- Operations Superintendent: **287-2960**
- RGAAF Weather Station: **288-9620/9400**
- RGAAF Weather Station NCOIC **288-9166**

Gray METRO: UHF 306.5

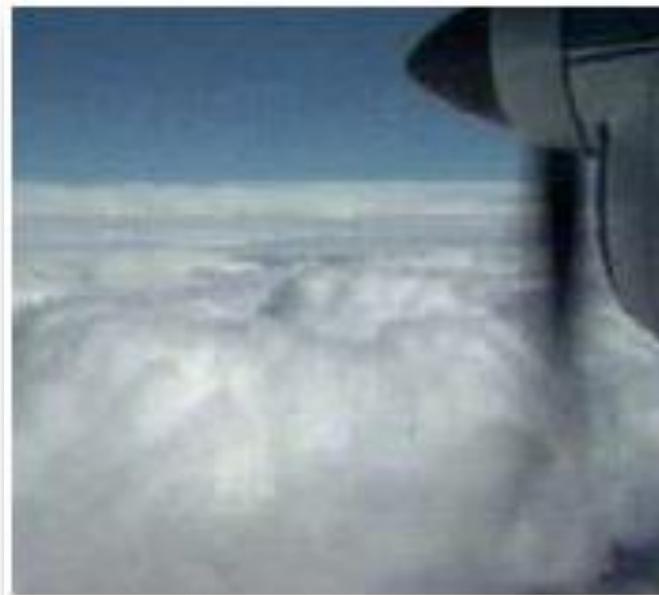




SUMMARY



- ☞ Local Area Influences
- ☞ Winter Climatology
- ☞ Winter Hazards
- ☞ Watches/Warnings/Advisories
- ☞ Weather Operations
- ☞ POCs



A military helicopter, possibly a Black Hawk, is shown from a front-three-quarter view on a tarmac. The helicopter is dark green and black. The background is a clear, light blue sky. The entire image is framed by a thick orange border.

THE END!!

Any Question or comments?