3 WS MEFP CHECKLIST

Forecaster: SRA RAYBURN

Weather technicians will use this checklist and the MEFP (Mission-series) SOPs when developing MWPs

X STEP 1: Obtain Situational Awareness

a. Identify mission types — **MSOP 02 - MEFP**

Exploit Unit Flying Schedules - WOC mailbox (1) Collect relevant information about mission planning/execution.
(2) Provide timely, accurate, and relevant environmental information for planning and execution.
(3) Obtain feedback from users on forecast and observed environmental conditions applicable to their respective missions.

Mission Types	MWP Produced to support the Mission
Operational (MEDEVAC, passenger/cargo, firefighting)	3 WS Mission Planning/Execution Flimsy & Briefing Log or DD175-1
Local Flying Training Missions	3 WS Mission Planning/Execution Flimsy & Briefing Log or DD175-1
Local Maintenance Test Flights	3 WS Mission Planning/Execution Flimsy & Briefing Log or DD175-1
UAS Operations	3 WS Mission Planning/Execution Flimsy & Briefing Log or 3 WS UAS MWP
Planning/Staff Support, Ground/Maneuver Operations, Special Events	3 WS Mission Planning/Execution Flimsy and/or 5-Day Forecast/Impacts Slides or other special briefing(s)

b. Utilize shift-change briefing, shift duty schedules — **GSOP 06 - Shift Change** — **GSOP 02A/B - Shift Duties**

c. Review applicable products from CUs (Utilize characterization products from DoD and U.S. Government (USG) sources first. Utilize characterization products from academic or commercial sources only when suitable DoD or USG products are unavailable.) — **AFW-WEBS**

Discussion Bulletins: **1WXG CONUS Analysis** **Regional** **NWS Area Forecast** **AWC Aviation Forecast**

METSAT Imagery (Vis/IR/WV): **26 OWS** **15 OWS (CH2-CH4)** ***[Use MARKIVB Software]***

NOAA **NexSat (Navy)**

Analyses (Synoptic/Theater-Scale U/A & SFC): **26 OWS** **SPC**

OWS FITL Graphic Products (Aviation Hazards): **26 OWS** **AWC (SIGMETs / AIRMETs)**

Model Output (Synoptic/Theater-Scale): **26 OWS** **FNMOC** **SPC (SREF)** **NWS Area Forecast** **NCAR**

Meteograms: **26 OWS** **NWS GFS-LAMP**

Skew-Ts: **26 OWS** **SPC**

TAFs: **26 OWS** **ADDS**

Tropical Cyclone Products

Space Weather Forecast: **26 OWS** **AFW-WEBS Main Space Weather Page**

REAL-TIME DATA…

Observations: **26 OWS** **ADDS**

PIREPs: **15 OWS** **ADDS**

Radar *(Use GRLevelX)*: **26 OWS** **NWS (KGRK)** **NWS (Mosiac)**

Lightning Display *(Use GRLevelX)*: **26 OWS** **15 OWS**

AMDAR Data *(Username/Password in Log Book)*

Storm Reports *(Use GRLevelX)*: **26 OWS** **NWS Text** **NWS Graphic**

X STEP 2: Determine "Weather Threat(s) of the Day"

a. Identify potential threats to mission execution ***(Refer to MLTs)*** **Fort Hood WWAs** ***(26 OWS webpage)***

Threat Assessment (DVI) **NWS Warnings (Graphic)** **AWC SIGMETs / AIRMETs**

b. Prioritize support based on mission priority and threat to mission execution ***(ORM)***

c. Identify weather products best to mitigate weather impacts ***(Refer to products in STEP 1)***

X STEP 3: MWP Generation/Dissemination

a. Conduct appropriate-scale review of global and theater-level products to identify state of the atmosphere affecting a particular mission *(Refer to products in STEP 1 & 2)*

b. Apply real-time data *(Refer to products in STEP 1 & 2)*

c. Apply specific forecast techniques

MetTips (557 WW/TN-15/001) KGRK FRM (26 OWS)

WSSC MODcurves (Helpful tool for takeoff/landing data) Local Rules of Thumb (ROT)

Thunderstorms LLWS Winter Precip (26 OWS TTP) Turbulence Icing

3 WS Radar Interpretation Guide

d. Integrate geographic, terrain, and vegetation influences on the weather and the mission *(Refer to MSOP02)*

e. Review space weather conditions and effects on mission *(Refer to products in STEP 1)*

f. Generate forecast in proper format employing critical "Go/No-Go" thresholds *(Refer to MLTs)*

Generate Tactical Decision Air (TDA) output, as required *(Refer to MSOP 11)*

g. Evaluate product for accuracy and disseminate IAW established guidelines (i.e., LAN/webpage (NIPR/SIPR), E-mail, fax) to appropriate customer(s), decision makers, and other weather units

h. Retain MWPs IAW the AF Records Disposition Schedule and AFI33-364, Records Disposition-Procedures and Responsibilities *(Refer to GSOP 07)*

MSOP 03 Flimsy	MSOP 04 FWB	MSOP 05 UAS MWP	MSOP 06 5-Day	MSOP 11 TAWS	MSOP 12 Tropical Support

X STEP 4: MISSIONWATCH / Mission Verification

a. Conduct MISSIONWATCH utilizing real-time weather products at established intervals

b. If capability exists, communicate with established POC if thresholds cross "Go/No-Go" parameters

c. Gather feedback from customer(s) and review weather products as necessary to verify MWP

d. Develop forecast review based on established guidelines if necessary

MSOP 08 MISSIONWATCH

MSOP 09 - Verification

MSOP 10 - Reviews

COMMENTS / NOTES / OWS COLLABORATION

Identify primary weather situation and potential threats to mission(s)--Refer to MLTs

WITH THE COLD DRY HIGH PRESSURE MOVING OVER CENTRAL TEXAS THERE WILL BE LIMITED THREATS THROUGHOUT THE FORECAST PERIOD. WINDS WILL REMAIN OUT OF THE NORTH DUE TO THE INTERACTION WITH THE HIGH PRESSURE CENTER AND WILL SLOWLY BEGIN TO DROP SPEEDS AS THE NIGHT PROGRESSES AND THE GRADIENT LOOSENS. TEMPS WILL CONTINUE TO BE A FACTOR FOR GROUND OPS AS LOWS ARE AROUND -07C WITH WIND CHILL IN THE -13C AREA. CLOUD DECK WILL BE MOSTLY FEW TO SCT IN THE MID LEVELS WITH AN OCCASIONAL BKN DECK ROLLING OVER AT 10000FT. THE AOR WILL CONTINUE TO DRY OUT AS THE HIGH SETTLES OVER THE AREA. PRIMARY THREATS IN THE AREA WILL CONTINUE TO BE MOD WINDS FOR UAS SUPPORT AND TEMPS FOR GROUND OPS. THERE ARE NO AVIATION THREATS IN THE AO.

FLIGHT CC and/or NCOIC REVIEW (MWP Review required?)