

**BY ORDER OF THE COMMANDER
AIR MOBILITY COMMAND**

**AIR MOBILITY COMMAND
INSTRUCTION 15-101**



29 DECEMBER 2023

Weather

**WEATHER OPERATIONS AND
SUPPORT**

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This publication implements Air Force Policy Directive (AFPD) 15-1, *Weather Operations*. It applies to Air Mobility Command (AMC) commanders of weather forces, AMC weather forces, and commanders of and personnel belonging to flying organizations that receive mission weather services (MWS) from AMC weather forces. As such, **Chapter 2** of this publication applies to United States Transportation Command (USTC)-assigned Air Force Reserve Command (AFRC) and Air National Guard (ANG) flying units. This publication does not apply to the United States Space Force. Ensure all records generated as a result of processes prescribed in this publication adhere to Air Force Instruction (AFI) 33-322, *Records Management and Information Governance Program*, and are disposed in accordance with the Air Force Records Disposition Schedule, which is located in the Air Force Records Information Management System. Refer recommended changes and questions about this publication to the office of primary responsibility (OPR) using the DAF Form 847, *Recommendation for Change of Publication*; route DAF Forms 847 from the field through the appropriate functional chain of command. This publication may be supplemented at any level, but all direct supplements must be routed to the OPR of this publication for coordination prior to certification and approval. The authorities to waive wing/unit level requirements in this publication are identified with a Tier (“**T-0, T-1, T-2, T-3**”) number following the compliance statement. In some cases, the 618th Air Operations Center (618 AOC) commander is specifically identified as the Tier 3 waiver authority with the term “**T-3 618 AOC/CC**”. See Department of the Air Force Manual (DAFMAN) 90-161, *Publishing Processes and Procedures*, for a description of the authorities associated with the Tier numbers. Submit requests for waivers through the chain of command to the appropriate Tier waiver approval authority, or alternately, to the publication OPR for non-tiered compliance items. The use of the name or mark of any specific manufacturer,

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SUMMARY OF CHANGES

This document has been substantially revised and must be completely reviewed. Changes within this rewrite include: office symbol changes, added roles and responsibility of Air Forces Transportation (AFTRANS) Weather Operations Briefings, mission weather support tables/secondary briefing methods, updated instructions for personnel activity report (PAR) and tier waiver documentation, and updated equipment policies and references.

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Chapter 1

ROLES AND RESPONSIBILITIES

1.1. MAJCOM Weather Staff. HQ AMC/A3AW, Weather Operations and Plans Branch, executes both MAJCOM and Headquarters Air Force Forces weather staff functions in accordance with (IAW) AFPD 15-1, *Weather Operations*. In addition to those functions, HQ AMC/A3AW is responsible for:

1.1.1. Providing back-up services to USTC Senior Meteorological and Oceanographic Officer IAW USTC/J-3, HQ AMC/A3, and 618 AOC (TACC)/CC Memorandum of Agreement.

1.1.2. Developing command guidance for AMC weather forces.

1.1.3. Validating weather operational requirements, concepts of operation, and weather information sources for flying operations.

1.1.4. Assisting AMC Contingency Response Force Functional Area Manager (FAM) in the development of weather Mission Essential Task (MET)s for contingency response forces.

1.1.5. Assisting AMC Air Operations Center FAM in the development of weather METs for the 618 AOC.

1.1.6. Providing Air Forces Transportation (AFTRANS) weather operations briefings IAW [Attachment 2](#).

1.1.7. Developing and directing AMC weather training exercises to sustain proficiency in wartime tasks and continuity of operations procedures.

1.1.8. Performing Staff Assistance Visits when requested and approved through the AMC Inspector General Gatekeeper.

1.2. Commanders.

1.2.1. Installation Commanders. AMC installation commanders will:

1.2.2. Plan, document, and coordinate installation-wide response to severe weather and educate personnel on the local severe weather threats and protective measures IAW Department of the Air Force Instruction (DAFI) 10-2501, *Emergency Management Program*.

1.2.3. Wing and stand-alone Group Commanders will identify and communicate weather support requirements to the wing providing weather services to the installation. **(T-3)**

1.2.4. Wing Commanders providing weather services will assist the Installation Commander and tenant Wing Commanders with determining and documenting weather support requirements and services provided. **(T-2)**

1.2.5. 618 AOC/CC through 618 AOC Weather Directorate (WXD) will:

1.2.5.1. Assess/manage weather impacts/risks to AMC global mobility operations. **(T-3 618 AOC/CC)**

1.2.5.2. Provide/arrange for mission weather services to USTC-assigned Mobility Air Forces (MAF) flying units IAW [Chapter 2](#) of this instruction. **(T-2)**

1.2.5.3. Produce, provide, and brief weather products to AFTRANS IAW [Attachment 2](#). (T-2)

1.2.5.4. Produce and provide weather products to USTC/J-3 and HQ AMC/A3AW IAW USTC/J-3, AMC/A3, and 618 AOC/CC Memorandum of Agreement. (T-2)

1.2.6. AMC Operations Support Squadron Commanders (OSS/CCs) with Weather Flights (WF). OSS/CCs provide and/or arrange weather support identified IAW local weather support documents or Memorandum of Agreement. **Note:** AMC WFs are not required to support Army or Navy units residing on their installation via their WFs unless manpower has been validated and funded to support these units, refer Army units to 557 WW per DAFMAN 15-129, *Air and Space Weather Operations* and Navy to the Naval Aviation Forecast Center-Norfolk Virginia, respectively.

1.2.7. Contingency Response Force Commanders. Train and employ weather forecasting and observing capability of assigned weather personnel. Specific responsibilities are identified in AFI 10-202, *Contingency Response Forces*.

1.2.8. Mobility Support Advisory Squadrons (MSAS) Commanders. MSAS/CCs ensure assigned weather personnel are properly equipped and resourced to perform mission.

1.3. Personnel Activity Report (PAR). AMC WFs and 618 AOC/WXD will submit a monthly PAR using the template loaded on the HQ AMC/A3AW Teams/SharePoint® website: [https://usaf.dps.mil/teams/AMCWeather/SharedDocuments/PersonnelAccountability/PersonnelAccountabilityReports\(CUI\)](https://usaf.dps.mil/teams/AMCWeather/SharedDocuments/PersonnelAccountability/PersonnelAccountabilityReports(CUI)). Mark PARs with abbreviated dissemination control of Controlled Unclassified Information - “CUI” and upload into the PAR library no later than (NLT) the 5th of every month. (T-2)

1.4. Approved Policy Waivers. AMC WFs and 618 AOC/WXD will upload any approved tier 3 waivers to tiered HAF or AMC weather policy or guidance to the HQ AMC/A3AW Teams/SharePoint® website: <https://usaf.dps.mil/teams/AMCWeather/SharedDocuments/General/ApprovedPolicyWaivers>. (T-2)

Chapter 2

FLYING MISSION WEATHER SUPPORT

2.1. Mission Weather Services (MWS). Mission weather services involves the production and provision of tailored mission planning and execution forecasts and mission-tailored weather effects (e.g., weather impacts) to support operational decision-making and mission execution. It includes identification and monitoring of risk management (RM) thresholds, also known as MISSIONWATCH/Flight Following.

2.2. Designated Wx Provider for AMC and USTC-Assigned Flying Organizations. [Attachment 3](#) identifies the designated primary and alternate provider for each MAF flying unit and mission type. The designated weather provider delivers authoritative weather information that includes mission planning information, flight weather briefings, and MISSIONWATCH/Flight Following.

2.2.1. Procedures for Integrated Flight Management (IFM) Sorties. 618 AOC/WXD is the designated provider for all 618 AOC-tasked or Wing-tasked IFM sorties. **(T-3 618 AOC/CC)** See [Attachment 4](#) for specific procedures and responsibilities. See [Attachment 3](#) for alternate provider and support procedure.

2.2.2. Procedures for non-IFM sorties supported by 618 AOC/WXD. 618 AOC/WXD is the designated weather provider for USTC-assigned ANG and AFRC MAF flying units without a collocated AF mission weather support team. **(T-2)** See [Attachment 5](#) for specific procedures and responsibilities. See [Attachment 3](#) for alternate provider and support procedure.

2.2.3. Procedures for non-IFM sorties supported by AMC WFs. On bases, including Joint Bases, supported by an AMC WF, the WF is the designated provider for all non-IFM sorties flown by AMC and for USTC-assigned ANG and AFRC units. **(T-2)** See [Attachment 6](#) for specific procedures and responsibilities. See [Attachment 3](#) for alternate provider and support procedure.

2.2.4. Procedures for non-IFM sorties supported by non-AMC Weather Teams. For all other USTC-assigned MAF flying units, the designated weather providers are outlined in [Attachment 3](#).

2.3. Procedures for non-MAF Flying Units. The local OSS WF is the designated provider for all non-MAF flying units identified to receive support in local weather support documents or Joint Base Memorandum of Agreement, home-stationed on AMC bases or AMC-led joint bases.

2.4. Aircrew Self Plan and File Sorties (ASPF). ASPF exercises degraded operations for the MAF enterprise and the 618 AOC. When a mission is designated ASPF the 618 AOC does not provide any dispatch or weather services. Under the ASPF concept, the aircrews' normally designated provider for non-IFM sorties is responsible for providing or arranging for mission weather services. See [Attachment 3](#) for designated and alternate providers for ASPF sorties.

2.5. AMC Mission Weather Briefing (AMC Form 181). If an AMC weather unit's primary method of providing mission weather for aircrews is unavailable, units may utilize the AMC Form 181, *AMC Mission Weather Briefing* as an alternate source. Complete the AMC Form 181 in accordance with procedures outlined in local procedures or [Attachment 7](#) of this manual.

Chapter 3

WEATHER SOURCES, SYSTEMS AND EQUIPMENT

3.1. Approved Weather Sources. WFs should utilize 618 AOC-produced graphical products as their primary source for determining synoptic or hemispheric aviation hazards. If 618 AOC graphical products are not available, AMC weather units should utilize the aviation hazards products available via a 557 WW source or located in the trusted data products subdirectory in Air Force Weather-Web Services (AFW-WEBS) or Air Force Weather Bridging Environmental Intelligence for Responsive Operational Support Portal (AFW-BIFROST). For all other weather information, AMC weather units will obtain authoritative weather information from the prioritized list of weather sources in **Table 3.1. (T-2)**

Table 3.1. Prioritized List of Weather Sources.

Priority	Weather Source
1	557 WW Products / AFW-WEBS / AFW-BIFROST
2	Other DoD weather sources (i.e., U.S. Navy/U.S. Marine Corps)
3	Other U.S. Government weather sources (i.e., NWS, FAA)
4	Commercial, Educational institution, Foreign Government weather sources/services

3.2. Weather Systems and Equipment.

3.2.1. Observing Equipment. IAW Air Force Manual (AFMAN) 15-111, *Surface Weather Observations*, WFs will only use AF-certified observing equipment when backing-up the Fixed Base Weather Observation System (FBWOS) (i.e.: FMQ-19/22/23).

3.2.1.1. WFs will have, maintain, and sustain a properly calibrated unit-funded Kestrel® 5500 (or newer) for FBWOS back-up. **(T-2)** WFs may substitute a similar product with prior approval of HQ AMC/A3AW.

3.2.1.2. WFs may use unit funds to purchase optional equipment for FBWOS back-up such as a Rain/Snow gauge capable of measuring precipitation to the nearest 0.01” (i.e.: Stratus®/RG202), materials for a snow measurement board, and accompanying measurement sticks.

3.2.2. AN/TMQ-53. AN/TMQ-53 may be used to conduct routine maintenance actions or operations checks, for short-term training events, or as back-up to a Fixed Base Weather Observing System (FBWOS). AMC WFs will limit AN/TMQ-53 operations to the duration of the FBWOS sensor outage when the AN/TMQ-53 is in use as back-up equipment. **(T-2)**

3.2.2.1. Operate and inventory AN/TMQ-53 IAW AFMAN 15-111 and Technical Order 31M1-2TMQ53-1. Units will fund, maintain, and perform annual operations check utilizing a provisioned Iridium® data link and Radio Frequency (RF) modem. **Note:** RF modem use may require coordination with the Installation Spectrum Manager IAW DAFI 17-220, *Spectrum Management*.

3.2.2.2. Report AN/TMQ-53 system readiness IAW AFI 10-201, *Force Readiness Reporting*. An AN/TMQ-53 in use as an FMQ-19 back-up is still considered available for deployment.

3.2.3. Micro Weather Station (MWS®). WFs will inventory, maintain, and sustain MWS® to meet all Unit Type Codes (UTC) requirements. Units will fund, maintain, and perform annual operations check utilizing a provisioned Iridium® data link. Comparisons for the MWS® should be completed IAW AFMAN 15-111 requirements. **Note:** Applies to both MWS®-M525 and MWS®-M625 as applicable.

3.2.4. Manual Observing Kit (MOK) and UTC. WFs will maintain and sustain all required items needed for meeting all UTC requirements. Sustainment or replacement of MOK equipment is unit funded.

3.2.5. Outages. Air Force Weather Weapons Systems have multiple help desk or contractors to assist users. To help identify which applicable agency to contact, use the matrix available on the HQ AMC/A3AW Teams/SharePoint® website: [https://usaf.dps.mil/teams/AMCWeather/Shared Documents/Equipment/Fielded Systems Help Desk Contact Information](https://usaf.dps.mil/teams/AMCWeather/Shared%20Documents/Equipment/Fielded%20Systems%20Help%20Desk%20Contact%20Information). Local procedures may have more detailed steps for troubleshooting.

3.2.5.1. The installation's supporting Radar, Airfield, and Weather Systems (RAWS) work center is responsible for reporting the operational and maintenance status of fixed and tactical automated observing systems and weather radars if applicable via the Integrated Maintenance Data System (IMDS) IAW DAFI 21-103, *Equipment Inventory, Status, and Utilization Reporting*, AFMAN 13-204 Volume 4 *Radar, Airfield, and Weather Systems*, and Radar, Airfield, and Weather Systems Career Field Manager Memorandum, *Maintenance Responsibility of Tactical Meteorological Observation System (AN/TMQ-53)*.

3.2.5.2. Notify HQ AMC/A3AW for outages lasting greater than or expected to last greater than 72 hours. **(T-2)**

MICHAEL A. MINIHAN, General, USAF
Commander

Attachment 1**GLOSSARY OF REFERENCES AND SUPPORTING INFORMATION*****References***

AFPD 15-1, *Weather Operations*, 14 November 2019

AFI 10-201, *Force Readiness Reporting*, 22 December 2020

AFI 10-202, *Contingency Response Forces*, 11 June 2020

DAFI 10-2501, *Emergency Management Program*, 16 October 2023

DAFI 17-220, *Spectrum Management*, 8 June 2021

DAFI 21-103, *Equipment Inventory, Status, and Utilization Reporting*, 1 November 2022

AFI 33-322, *Records Management and Information Governance Program*, 23 March 2020

AFMAN 11-255V3, *Flight Manager Responsibilities and Procedures*, 16 November 2023

AFMAN 13-204V4, *Radar, Airfield, and Weather Systems*, 22 July 2020

AFMAN 15-111, *Surface Weather Observations*, 12 March 2019

AFMAN 15-124, *Meteorological Codes*, 16 January 2019

DAFMAN 15-129, *Air and Space Weather Operations*, 7 September 2023

DAFMAN 90-161, *Publishing Processes and Procedures*, 18 October 2023

AMCI 10-208V1, *Commander's Battle Staff*, 23 July 2020

AMCI 10-2102V6, *Mission Management and Reliability Reporting System (MMRRS)*, 23 January 2019

HQAMCHOI 13-103, *Headquarters Air Mobility Command Decision Cycle*, 8 February 2021

TO 31M1-2TMQ53-1, *Tactical Meteorological Observing Station (TMOS) Operation and Organizational Maintenance Instructions*, 19 June 2009

618 AOC Concept of Operations (CONOP) *Aircrew Self Plan and File CONOP*, 06 May 2021

Memorandum of Agreement Between Headquarters United States Transportation Command Director of Operations (TCJ3) and HQ Air Mobility Command Director Of operations, Strategic Deterrence, and Nuclear Integration (AMC/A3/10) and 618th Air Operations Center (TACC) Commander (618 AOC [TACC]/CC) for Meteorological and Oceanographic (METOC) Operations in Support of Headquarters, U.S. Transportation Command (USTRANSCOM)., 18 December 2018

Radar, Airfield, and Weather Systems Career Field Manager Memorandum, Maintenance Responsibility of Tactical Meteorological Observation System (AN/TMQ-53), 19 March 2021

Prescribed Forms

AMC Form 181, *AMC Mission Weather Briefing*

Adopted Forms

DAF Form 847, *Recommendation for Change of Publication*

Abbreviations and Acronyms

ADP—Aircrew Departure Papers

AF—Air Force

AFB—Air Force Base

AFI—Air Force Instruction

AFMAN—Air Force Manual

AFPD—Air Force Policy Directive

AFRC—Air Force Reserve Command

AFTRANS—Air Forces Transportation

AFW-BIFROST—Air Force Weather – Bridging Environmental Intelligence for Responsive Operational Support Portal

AFW-WEBS—Air Force Weather – Web Services

ALSTG—Altimeter Setting

ALTN—Alternate

AMC—Air Mobility Command

AMW—Air Mobility Wing

ANG—Air National Guard

AOC—Air Operations Center

ARW—Air Refueling Wing

AS—Airlift Squadron

ASPF—Aircrew Self Plan and File

AW—Airlift Wing

BUB—Battle Update Brief

CBS—Crisis Battle Staff

CC—Commander

CDS—Commercial Dispatch Service

CFP—Computer Flight Plan

CONOP—Concept of Operations

CUI—Controlled Unclassified Information

DAFI—Department of the Air Force Instruction

DAFMAN—Department of the Air Force Manual
DZ/LZ—Drop Zone/Landing Zone
FAA—Federal Aviation Administration
ETD—Estimated Time of Departure
FAM—Functional Area Manager
FBWOS—Fixed Base Weather Observation System
FLT—Flight
FM—Flight Managers
GDSS—Global Decision Support System
IAW—In Accordance With
ICAO—International Civil Aviation Organization
IFM—Integrated Flight Management
IMDS—Integrated Maintenance Data System
JB—Joint Base
MAF—Mobility Air Forces
MAJCOM—Major Command
MET—Mission Essential Task
MOA—Military Operating Area
MOK—Manual Observing Kit
MSAS—Mobility Support Advisory Squadrons
MWS®—Micro Weather Station
MWS—Mission Weather Services
NFM—Non-IFM
NLT—No Later Than
NWS—National Weather Service
OPR—Office of Primary Responsibility
ORM—Operational Risk Management
OSS—Operations Support Squadrons
PA—Pressure Altitude
PAR—Personnel Activity Report
RAWS—Radar, Airfield, and Weather Systems
RF—Radio Frequency

RM—Risk Management

SM—Statute Miles

SOAR—Special Operations Air Refueling

SOWS—Special Operations Weather Squadron

TKOF ALTN—Takeoff Alternate

TEMPO—Temporary

USTC—United States Transportation Command

UTC—Unit Type Codes

VIS—Visibility

WF—Weather Flight

WHMO—White House Military Office

WTA—Weather Threat Assessment

WW—Weather Wing

WXD—Weather Directorate

Office Symbols

AMC/A3AW—Weather Operations and Plans Branch, Air Mobility Command

Attachment 2

AIR FORCES TRANSPORTATION (AFTRANS) WEATHER OPERATIONS BRIEFINGS

A2.1. Applies to: HQ AMC/A3AW and 618 AOC/WXD

A2.2. Purpose. Outline the roles of HQ AMC/A3AW and 618 AOC/WXD during AFTRANS operational planning and crisis battle rhythm IAW AMCI 10-208V1, *Commander's Battle Staff* and HQAMCHOI 13-103, *Headquarters Air Mobility Command Decision Cycle*. This ensures two separate weather entities are not completing redundant briefing tasks which could lead to conflicting information making its way to Commanders via two separate chains (i.e., A3AW to AMC/CC and AOC to AMC/CC).

A2.3. AFTRANS Weather roles and responsibilities.

A2.3.1. HQ AMC/A3AW will:

A2.3.1.1. Provide weather subject matter expertise to Operational Planning Teams, Long Range Planning Groups and any planning functions extending beyond 96 hours or not related to mission execution.

A2.3.1.2. Utilize 618 AOC/WXD forecast to build any additional weather products to ensure consistency.

A2.3.1.3. Integrate with AMC staff and provide 618 AOC/WXD with pertinent information on AMC operations, to include information on stand-up of the Crisis Battle Staff (CBS), changes to format or forecast products, and any related ad hoc briefing requirements.

A2.3.1.4. When needed, back-up 618 AOC/WXD for weather briefings to the AMC/CC.

A2.3.2. 618 AOC/WXD will:

A2.3.2.1. Maintain global situational awareness on weather hazards and impacts to AMC global missions IAW [paragraph 1.2.5.1](#).

A2.3.2.2. Produce and provide graphical forecasts out to 96 hours and provide a weather briefer to AMC/CC Battle Update Brief (BUB), Operations and Intelligence Brief, and other briefs that are operational in nature.

A2.3.2.3. Provide daily extended weather outlook and monthly climate outlook if they are already produced for 618 AOC purposes and give notice to HQ AMC/A3AW if amendments are made or products will be discontinued.

A2.3.2.4. If HQ AMC/A3AW is unable to support, augment HQ AMC/A3AW for any AMC/CC briefings requiring weather (with prior coordination and as 618 AOC mission permits).

Attachment 3

DESIGNATED WEATHER PROVIDER FOR AMC AND USTC-ASSIGNED UNITS

A3.1. Identifies the designated provider, alternate provider, and applicable weather briefing request procedures for USTC-assigned AMC, ANG, and AFRC MAF flying units.

Table A3.1. Designated Weather Providers and Procedures.

Home Station	Flying Unit	Designated Provider	Alternate Provider	Notes:
		Briefing Procedure	Briefing Procedure	
All 618 AOC Integrated Flight Management (IFM) Sorties				
All	All	618 AOC/WXD Attachment 4	Home station WF Attachment 6 or 557 WW	618 AOC/CC - directed ASPF sorties use designated provider for non-IFM sorties
Non-Flight Managed Sorties / Aircrew Self Plan File (ASPF)				
JB Andrews	Presidential Airlift Group	WHMO	As directed by WHMO	
	89 AW C-40, C-32	Commercial Dispatch Service	89 OSS/OSW local procedure	
	89 AW C-37	89 OSS/OSW local procedure	557 WW	
	459 ARW	89 OSS/OSW Attachment 6	618 AOC/WXD Attachment 5	
JB Lewis/McChord	62 AW	62 OSS/OSW Attachment 6	618 AOC/WXD Attachment 5	
McConnell AFB	22 ARW SOAR	22 OSS/OSW local procedure	23 SOWS 23 SOWS procedure	
	all other MAF	22 OSS/OSW Attachment 6	618 AOC/WXD Attachment 5	

Scott AFB	932 AW/54 AS	Commercial Dispatch Service	375 OSS/OSW	
	458 AS	375 OSS/OSW local procedure	557 WW	
	all other USTC- assigned ANG, AFRC	375 OSS/OSW Attachment 6	618 AOC/WXD Attachment 5	
All other AMC and AMC-led Joint Bases	All AMC and USTC- assigned ANG, AFRC	Local AF weather flight Attachment 6	618 AOC/WXD Attachment 5	
All other home stations <i>with</i> AF mission weather integration team	USTC- assigned AMC, ANG, AFRC	Local AF weather team Local procedures	557 WW	
All other home stations <i>without</i> AF mission weather integration team	USTC- assigned AMC, ANG, AFRC	618 AOC/WXD Attachment 5	557 WW	

Attachment 4

MWS PROCEDURES FOR INTEGRATED FLIGHT MANAGEMENT (IFM) SORTIES

A4.1. Applies To: All 618 AOC IFM sorties.

A4.2. Designated Weather Provider. 618 AOC/WXD is the designated provider for all 618 AOC IFM sorties/legs. (T-2)

A4.3. Weather Briefing Request. 618 AOC Flight Managers (FMs) input mission profile data and request weather briefings via Global Decision Support System (GDSS) IAW AFMAN 11-255V3, *Flight Manager Responsibilities and Procedures* and AMCI 10-2102V6, *Mission Management and Reliability Reporting System (MMRRS)*.

A4.4. Weather Briefing Production. 618 AOC/WXD produces and delivers mission weather information to the requesting FM via GDSS.

A4.5. Aircrew Departure Papers (ADP). FMs review/include weather briefing in the IFM ADP. ADPs are published/delivered IAW AFMAN 11-255V3.

A4.6. MISSIONWATCH/Flight-Following. 618 AOC/WXD will:

A4.6.1. Conduct MISSIONWATCH IAW DAFMAN 15-129.

A4.6.2. GDSS. Begin RM assessment at a minimum of 36 hours prior to the estimated time of departure (ETD). For each IFM sortie, specify the weather operational risk category in GDSS (see GDSS Weather ORM Detail / local procedures for RM criteria). Assign an at risk (RED) assessment to all sorties deemed at risk and assign a GREEN assessment to all other sorties. Continue RM assessment during mission execution through mission completion (i.e., arrival). (T-3 618 AOC/CC)

A4.6.3. WTA Tool. Begin RM assessment at/about 36 hours but no later than 24 hours prior to ETD. Identify IFM missions at risk (RED) and at some risk (YELLOW) based on forecasted/observed weather criteria (see GDSS Weather ORM Detail for RM criteria). Continue RM assessment during mission execution through mission completion (i.e., arrival). (T-3 618 AOC/CC)

A4.7. Collaborate with mission planners and FMs to mitigate adverse mission impacts, monitor/provide weather updates, and document mitigation actions taken IAW local procedures. (T-3 618 AOC/CC)

Attachment 5

MWS PROCEDURES FOR NON-IFM (NFM) SORTIES (SUPPORTED BY 618 AOC/WXD)

A5.1. Applies To:

A5.1.1. NFM sorties flown by USTC-assigned ANG and AFRC flying units without a collocated mission weather integration team.

A5.1.2. NFM sorties flown by AMC and USTC-assigned units for which 618 AOC is the designated provider in [Attachment 3](#).

A5.2. Designated Weather Provider. 618 AOC/WXD.

A5.3. Weather Briefing Request. Aircrew, planners, schedulers, current operations, command post, or locally designated agency will use GDSS to request a weather package. **(T-2)** Weather briefings should be requested via **GDSS NLT 2 hours prior** to takeoff. **(T-3 618 AOC/CC)** Briefings requested less than 2 hours prior to takeoff will be handled in the order in which they are received and completed IAW 618 AOC/WXD duty priorities. **Note:** The 618 AOC/WXD cannot guarantee briefings requested with less than 2 hours notification can be completed prior to scheduled time of departure.

A5.3.1. To facilitate the weather briefing process, locally designated personnel will:

A5.3.1.1. Call the 618 AOC/WXD at DSN 779-0353 if a package is requested less than 2 hours prior to take-off to avoid mission delays and ensure the sortie is identified in order to complete the weather package. **(T-3 618 AOC/CC)**

A5.3.1.2. Update GDSS as soon as possible with changes to sorties and for updates during mission execution in order for 618 AOC/WXD to provide an updated weather package. **(T-3 618 AOC/CC)**

A5.3.2. Units with personnel authorized to request weather briefings should establish procedures to ensure the Military Operating Area (MOA) is specified in the mission detail log if the MOA is not pre-loaded in GDSS. GDSS account application and weather request procedures are located on the GDSS documentation site at: <https://gdsstraining.maf.ustranscom.mil/pages/UserManualDescriptions.php> (GDSS account required). **Note:** If a MOA is not pre-loaded (registered) in GDSS, users can open the weather request and add it manually in the enroute events tab.

A5.4. Weather Briefing Delivery. 618 AOC/WXD produces and posts a “weather only” Aircrew Departure Package (ADP) to GDSS. Pilot in Command or designated personnel are responsible for publishing/printing the weather briefing. Units should contact 618 AOC/WXD at DSN 779-0353 if alternate delivery means are required.

A5.4.1. MISSIONWATCH. 618 AOC/WXD will:

A5.4.1.1. Begin RM assessment at/about 36 hours prior to the estimated time of departure (ETD). For each mission, specify the weather operational risk category using GDSS Weather ORM Detail. Assign a RED assessment to all missions deemed at risk and assign a GREEN assessment to all other missions. Continue RM assessment during mission execution through mission completion (i.e., arrival). **(T-3 618 AOC/CC)**

A5.4.1.2. Relay mission-specific at risk weather threat notification remarks, monitor/provide weather updates, and document actions IAW locally established procedures. **(T-3)**

A5.4.2. Squadron Operations Center/mission planners/aircrew should contact 618 AOC/WXD at DSN 779-0353 to mitigate weather threats as required.

Attachment 6

MWS PROCEDURES FOR NON-IFM SORTIES (SUPPORTED BY AMC WEATHER FLIGHTS)

A6.1. Applies To: Non-IFM sorties flown by MAF units for which an AMC weather flight is the designated provider in [Attachment 3](#).

A6.2. Designated Weather Provider. Home station weather flight.

A6.3. Weather Briefing Request. A locally designated agency will use GDSS to request a weather package IAW with local procedures. **(T-3)** Requestors should ensure Military Operating Areas (MOA) are specified in the mission detail log if the MOA is not pre-loaded in GDSS. GDSS account application and weather request procedures are located on the GDSS documentation site at: <https://gdsstraining.maf.ustranscom.mil/pages/UserManualDescriptions.php> (GDSS account required). **Note:** If a MOA is not preloaded (registered) in GDSS, users can open the weather request and add it manually in the enroute events tab.

A6.4. Weather Briefing Delivery. The home station weather flight produces and posts a “weather only” ADP to GDSS. **(T-3)** Pilot in Command or designated personnel are responsible for publishing/printing the weather briefing. If GDSS is unavailable, units will follow outage procedures and deliver briefs via JET/AFW-BIFROST, AMC Form 181, locally developed 175-1, or similar method. Locally designated personnel publish/print the weather briefing.

A6.4.1. Update GDSS as soon as possible with changes to sorties and for updates during mission execution in order for home station weather flight to provide an updated weather package. **(T-3)**

A6.4.2. MISSIONWATCH/Flight Following. Home station weather flight will:

A6.4.2.1. Begin RM assessment IAW local procedures. Assessments should be available at a point in time to inform local mission planning processes. Collaborate with mission planners to mitigate adverse mission impacts. **(T-2)**

A6.4.2.2. For each mission, specify the weather operational risk category using GDSS Weather ORM Detail. Assign an at risk (RED) assessment to all missions deemed at risk and assign a GREEN assessment to all other missions. Continue periodic RM assessment during mission execution through mission completion (i.e., arrival). **(T-2)**

A6.4.2.3. Disseminate mission-specific weather threat notifications, monitor/provide weather updates, and document actions IAW locally established procedures. **(T-2)**

Attachment 7

AMC FORM 181, AMC MISSION WEATHER BRIEFING INSTRUCTIONS

A7.1. Applies To: Provide MAF units an alternate method for mission weather support to AMC aircrews when primary methods are unavailable.

A7.2. General Instructions. Unless directed by local operating procedures, all entries in the individual blocks are at the discretion of the briefer, based on supported aircrew requirements, and the weather situation. Entries on the AMC Form 181 must be horizontally and vertically consistent and show sound meteorological reasoning. For example, if a wind related weather threat, warning or advisory for surface wind is indicated in block 11, the surface wind forecast in the wind block 5 should reflect the threat warning or advisory wind criteria details, along with the valid times, and warning or advisory number entered in block 11. Enter all times in UTC/Zulu, all winds in five digits (six for wind speeds over 99 knots) and record all heights in hundreds of feet with the surface level as "SFC". Ensure all weather is encoded IAW DAFMAN 15-129 and AFMAN 15-124, *Meteorological Codes*. The only exception to this is to allow "CAVOK" (visibility \geq 6SM, no clouds below 5k feet, and no CBs) if it is in the terminal forecast for the location. If a location uses CAVOK with a subsequent temporary (TEMPO) line of a weather condition, the CAVOK must be changed to reflect forecasted conditions.

A7.3. SECTION I – TAKEOFF WEATHER. Enter the general information and forecast for takeoff 1 hour either side of the estimated time of departure (ETD). See [Figure A7.1](#) for an example of Section I. If needed, there is a second line in the section for TEMPO conditions, takeoff alternate (TKOF ALTN), or additional information that doesn't fit in the first line. Users can annotate type of data in middle of block 4 using the drop-down options and additional space. If additional takeoff or TEMPO data is needed for departure, provide notes in block 13 if needed (e.g., TKOF ALTN KWRI 1400-1600 24005KT 5SM -RA BKN035 T22C ALSTG 29.91 PA+161 / TEMPO 28018G25KT).

A7.3.1. Block 1. **DEPARTURE ICAO-DATE/ETD.** Enter the departure location International Civil Aviation Organization (ICAO) and estimated time of departure. (e.g., KDOV – 12/1600Z).

A7.3.2. Block 2. **MSN NUMBER.** If Applicable, enter the AMC MSN number designated by GDSS or local MSN planners (e.g., ABC08720E239).

A7.3.3. Block 3. **AIRCRAFT TYPE/TAIL NO./CALL SIGN.** Enter aircraft type, aircraft tail number, and designated call sign. **Note:** Call sign and tail number abbreviations are acceptable for brevity if using the last three digits of the tail number. (e.g., C5/RCH0123/50001, C17/JEDI12/77171, KC46/MDUSA312/076).

A7.3.4. Block 4. **VALID TIME.** Enter the valid time 1 hour either side of the estimated time of departure (ETD). (e.g., a 1330Z departure would be: 1230-1430).

A7.3.5. Block 5. **WIND.** Enter the surface wind direction in magnetic for missions departing your local airfield, and in true direction for missions departing another airfield. Enter surface wind direction to the nearest 10 degrees in three digits and surface wind speed (including gust) in two or three digits. Ensure wind entries use a minimum of 5 digits (3 digits for direction and 2 digits for speed). Surface winds will have 2 digits to represent gusts, 3 digits for speed when winds exceed 99 knots. Enter "VRB" for a forecast variable wind direction.

A7.3.6. Block 6. **VISIBILITY (VIS)**. Enter forecasted visibility in statute miles (SM). Enter the lowest prevailing visibility and weather expected during the valid period. Represent in statute miles for CONUS and overseas US locations, and in meters for other overseas locations, unless otherwise specified by the aircrew. **Note:** While a visibility of less than 7SM/9999 meters require a weather element and/or obscuration, weather such as precipitation does not require a restriction to visibility to be reported in a forecast (e.g., 9999 –RA). In this case, the weather is significant because it is occurring, not because it is restricting visibility.

A7.3.7. Block 7. **WEATHER**. Enter and encode expected weather during the valid period.

A7.3.8. Block 8. **SKY CONDITION**. Enter and encode expected sky condition during the valid period.

A7.3.9. Block 9. **TEMP**. Enter the forecast temperature in degrees Celsius (prefixed with a +/- as applicable).

A7.3.10. Block 10. **ALTIMETER SETTING (ALSTG)**. Enter the lowest altimeter setting expected during the valid period.

A7.3.11. Block 11. **PRESSURE ALTITUDE (PA)**. Enter the forecast pressure altitude for the arrival time at the destination.

A7.3.12. Block 12. **HAZARDS/THREATS/WARNINGS/ADVISORIES**. Enter any known weather hazards, forecast/observed weather watch, warning, or advisory valid for ETD +/-1 hour. When watch, warning, and advisory information for a location are not available (e.g., remote briefing), enter "Check with local flight agencies." This informs the aircrew that the status of local weather watches, warnings, and/or advisories is undeterminable, and recommend they check with the local air traffic control or airfield operations for any weather watches, warnings, or advisories that may be in effect.

A7.3.13. Block 13. **ADDITIONAL REMARKS**. This block is for any comments the forecaster deems necessary or additional supplemental information that didn't fit in other areas in the takeoff weather section or the aforementioned reasons in [paragraph A7.3](#).

Figure A7.1. Example SECTION I – TAKEOFF WEATHER.

AMC MISSION WEATHER BRIEFING		1. DEPARTURE ICAO - DATE/ETD (Z) KDOV - 16/1600Z		2. MSN NUMBER ABC08720E239		3. AIRCRAFT TYPE/TAIL NO./CALL SIGN C17A / 70044 / RCH1234		
SECTION I - TAKEOFF WEATHER								
4. VALID TIME	5. WIND (KT)	6. VIS	7. WEATHER	8. SKY CONDITION/HAZARDS		9. TEMP (C)	10. ALSTG	11. PA
1500-1700	Z 21012G18	5	-SHRA VCTS	BKN030CB OVC050		+24	29.89	+59FT
TKOF ALTN <input type="checkbox"/> KWRI								
1515-1715	Z 29005	7	VCSH	SCT040 BKN250		+22	29.91	+161FT
12. HAZARDS/THREATS/WARNINGS/ADVISORIES: WATCH 10-012: LIGHTNING W/ 5NM OF KDOV 12/15Z-12/18Z				13. ADDITIONAL REMARKS: TKOF ALTN KWRI				

A7.4. SECTION II – ENROUTE WEATHER. Enter data for the duration of the specific mission and the entire route of flight. Brief hazards for the specific mission (if applicable) and enroute generally within 25 miles either side of the route and within 5,000 feet above and below the planned flight level. Any low-level route planning data (if applicable) can also be covered in this section. For enroute hazards forecasted in blocks 15 through 17, use the drop-down and select source and date/time of the product used (e.g., 557WW, 618 AOC), or select the “SEE CHARTS” option if providing a graphical depiction of forecast hazards to the aircrew and attach to the

package. See [Figure A7.2](#) for an example of Section II. **Note:** If there is a hazard forecasted on the charts, but not expected to occur in the track annotate that as such. For example, hazard chart shows ISOL TS, but looking at other data sources it is not expected in the track. The comment in block 25 would be, “**TS: ISOL MT350 On chart not expected in track**”

A7.4.1. Block 14. **FLIGHT (FLT) LEVEL WINDS/TEMP.** Enter planned flight level in hundreds of feet in three digits (e.g., "280" for 28,000 feet, "080" for 8,000 feet). Enter true wind direction at flight level in tens of degrees and speed to the nearest 5 knots. Enter forecast flight level temperature in degrees Celsius (prefixed with a +/- as applicable). If there are significant wind speed and direction changes, break the forecast into legs by state, geographical location, or ICAO (e.g., KDOV-KBLV 27045KT/-45). Otherwise, brief a representative wind and temperature for the entire route (e.g., 32040KT/+11). If a computer flight plan (CFP) is used, review it for accuracy before briefing aircrews. If accurate, enter "See CFP" in this block. Enter "See Attached" if providing a specific wind chart.

A7.4.2. Block 15. **THUNDERSTORMS.** Using the checkboxes indicate the coverage type, extent, enter maximum tops, and geographical location of thunderstorms affecting the mission. The extent percentages on the AMC 181 directly correspond to the Maximum Instantaneous Coverage depicted on 557 WW thunderstorm products. Never use the terms “cumulonimbus” or “CB.” Instead, use “thunderstorm” or “TS.”

A7.4.3. Block 16. **TURBULENCE.** Forecast is independent of thunderstorms. Using the checkboxes indicate the type, intensity, levels, and locations of turbulence affecting the route or specific mission.

A7.4.4. Block 17. **ICING.** Forecast is independent of thunderstorms. Mark or enter the type, intensity, levels, and locations of icing affecting the route or specific missions.

A7.4.5. Block 18. **PRECIPITATION.** Forecast is independent of thunderstorms. Mark or enter the type, intensity, character, and geographical location of precipitation areas affecting the route or specific mission. This block is for precipitation encountered at flight level, not at the surface.

Figure A7.2. Example SECTION II – ENROUTE WEATHER.

SECTION II - ENROUTE WEATHER												
14. FLT LEVEL/WIND/TEMP (C): FL320 / DE-MD: 24050KT/-38 // WV-KY: 26065KT/-41 // IN-IL:28045KT/-43 **SEE CHARTS**												
15. THUNDERSTORMS				16. TURBULENCE				17. ICING				18. PRECIPITATION
618 AOC <input type="checkbox"/> 16/12Z-17/00Z				618 AOC <input type="checkbox"/> 16/12Z-17/00Z				618 AOC <input checked="" type="checkbox"/> 16/12Z-17/00Z				NONE / NOT APPLICABLE <input type="checkbox"/>
<input checked="" type="checkbox"/> NONE	<input type="checkbox"/> AREA	<input type="checkbox"/> LINE	<input type="checkbox"/>	<input type="checkbox"/> NONE	<input checked="" type="checkbox"/> IN CLEAR	<input checked="" type="checkbox"/> IN CLOUD	<input checked="" type="checkbox"/>	<input type="checkbox"/> NONE	<input type="checkbox"/> RIME	<input type="checkbox"/> MIXED	<input type="checkbox"/> CLEAR	<input type="checkbox"/>
<input checked="" type="checkbox"/> ISOLATED (1-2%)	<input type="checkbox"/> MT	<input type="checkbox"/> 350	<input type="checkbox"/>	<input type="checkbox"/> LIGHT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> TRACE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> FEW (3-15%)	<input type="checkbox"/> MT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> MODERATE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> LIGHT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> SCATTERED (16-45%)	<input type="checkbox"/> MT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> SEVERE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> MODERATE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> NUMEROUS (> 45%)	<input type="checkbox"/> MT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> EXTREME	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> SEVERE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HAIL, LLWS, SEVERE TURBULENCE, SEVERE ICING, PRECIPITATION AND LIGHTNING EXPECTED IN AND NEAR THUNDERSTORMS				LEVELS 240-340				LEVELS 080-180				FREEZING <input type="checkbox"/>
LOCATION DE-MD CENT KY				LOCATION W KY-IN-IL				LOCATION KY-S IL/MO				LOCATION IN / KLEIBER DZ

A7.4.6. **AIR REFUELING/MILITARY OPERATING AREA FORECAST.** See [Figure A7.3](#) for an example of Section II AIR REFUELING/MILITARY OPERATING AREA FORECAST

A7.4.6.1. Block 19. **LOCATION / FLT LEVEL.** Enter the name of the event location and flight level. If needed specify if planned flight level is AGL or MSL. **Note:** Abbreviations of location names are acceptable.

A7.4.6.2. Block 20. **CLOUDS.** Encode SKC (no clouds), FEW, SCT, BKN, OVC or LYRD as required for coverage. Encode base and top of each cloud layer in hundreds of feet MSL above 10,000 feet, AGL below 10,000 feet as required (030 BKN LYRD 350). Add an additional convective cloud layer if any coverage of thunderstorms are forecasted (100 SCT 200; 020 FEW 500CB).

A7.4.6.3. Block 21. **VISIBILITY (VIS).** Encode flight level visibility in nautical miles to include both in-cloud and out-of-cloud (3NM INC; 7NM OUT). Visibilities of less than 1NM in cloud are forecast for only non-convective clouds (do not forecast visibilities in thunderstorms).

A7.4.6.4. Block 22. **WEATHER/HAZARDS.** Encode expected weather or hazards expected at flight level during the event. Use the following examples or locally determined criteria.

A7.4.6.4.1. **THUNDERSTORMS:** Encode ISOL (1-2%), FEW (3-15%), SCT (16-45%), or NMRS (>45%) for implied maximum 1-hour coverage. Encode MT for max tops and height in hundreds of feet MSL (TS: ISOL MT400). Encode NONE if no thunderstorms are forecast.

A7.4.6.4.2. **ICING:** Encode LGT, MOD, or SEV for intensity and RIME, CLR, or MXD for type. Enter bases/tops in hundreds of feet MSL (ICG: MOD RIME 180-210). Encode NONE if no icing is forecast.

A7.4.6.4.3. **TURBULENCE:** Encode LGT, MOD, SEV, or EXTRM for intensity for aircraft type. Enter bases/tops in hundreds of feet MSL (TURB: MOD 160-260). Encode NONE if no turbulence is forecast.

A7.4.6.5. Block 23. **WINDS.** Encode Enter wind direction (3 digits in tens of degrees) and speed 2 digits if less than or equal to 99 knots and 3 digits if in excess of 99 knots (Example: 33099KT or 330105KT). If winds differ by 30 degrees or greater and/or 30kts or greater through the forecast layers, specify direction and speed for differing flight levels.

A7.4.6.6. Block 24. **VALID TIME.** Valid time will be 30 minutes before and 1 hour after given event times.

A7.4.6.7. Block 25. **ADDITIONAL REMARKS.** This block is for any comments the forecaster deems necessary or additional supplemental information that didn't fit in other areas in the takeoff weather section.

Figure A7.3. Example Section II AIR REFUELING/MILITARY OPERATING AREA FORECAST.

AIR REFUELING/MILITARY OPERATING AREA FORECAST					
19. LOCATION / FLT LEVEL	20. CLOUDS	21. VIS (NM)	22. WEATHER/HAZARDS	23. WINDS	24. VALID TIME
AR455EW / FL210	080 BKN 180 250 FEW 320	1 INC (BKN) 5 INC (FEW) 7 OUT	TURB: LGT-MOD 240-350 ICG: LGT RIME 080-180	E 1/2: 23060KT W 1/2: 27040KT	1930-2100 Z
25. ADDITIONAL REMARKS					
EXPECT LGT-MOD TURB BECMG LGT APPROX 1/2 WAY THRU AR; LGT RIME ICG BLO FL180 // **TS: ISOL MT350 ON CHARTS IN CENT KY NOT EXPECTED IN TRACK**					

A7.4.7. **DROP/LANDING ZONE FORECAST (DZ/LZ).** See [Figure A7.4](#) for an example of Section II DROP/LANDING ZONE FORECAST.

A7.4.7.1. Block 26. **LOCATION.** Enter the DZ/LZ location name of the event and flight level. **Note:** Abbreviations of location names are acceptable.

A7.4.7.2. Block 27. **CLOUDS/SFC VIS (SM)/WEATHER.** Encode base and top of each cloud layer in hundreds of feet AGL below 10,000 feet and MSL above 10,000 feet. Enter the surface visibility in statute miles. Enter any present weather (-SHRA, BLDU, etc.). If none, enter NONE.

A7.4.7.3. Block 28. **SFC WIND/TEMP.** Enter the maximum surface winds in knots five digits (six for wind speeds over 99 knots). Enter in the surface maximum and minimum temperatures in degrees Celsius (prefixed with a +/- as applicable).

A7.4.7.4. Block 29. **MIN ALSTG.** Enter the lowest altimeter setting expected during the valid period.

A7.4.7.5. Block 30. **VALID TIMES.** Enter DZ/LZ forecast valid dates/times will be +/- 1 hour on each end of the valid period not to exceed a 6hr block.

A7.4.7.6. Block 31. **ADDITIONAL REMARKS.** This block is for any comments the forecaster deems necessary or additional supplemental information that didn't fit in other areas in the takeoff weather section.

A7.4.7.7. Block 32. **LL WIND (AGL)/TEMP (C).** Enter AGL altitude winds/temperatures (Example 33020KT/M05C). Enter wind direction (3 digits in tens of degrees) and speed 2 digits if less than or equal to 99 knots and 3 digits if in excess of 99 knots (Example: 33099KT or 330105KT). Enter temperature in degrees Celsius, using two digits. Negative temperatures will be prefixed with a capital "M". (Example: 20C/M05C).

A7.4.7.8. Block 33. **MIN FZ LVL.** Enter minimum freezing level (i.e., 045 for 4,500 feet).

A7.4.7.9. Block 34. **MAX PA.** Enter maximum pressure altitude.

A7.4.7.10. Block 35. **MAX DA.** Enter maximum density altitude.

Figure A7.4. Example Section II DROP/LANDING ZONE FORECAST.

DROP/LANDING ZONE FORECAST							
26. LOCATION	27. CLOUDS/SFC VIS (SM)/WEATHER			28. SFC WIND/TEMP (C)		29. MIN ALSTG	30. VALID TIME
KLEIBER DZ	020 SCT 080 / 080 BKN 180 5SM/-SHRA VCTS			MAX WIND 28015KT	MAX/MIN TEMP +07 / +09	29.88	1900-2030 Z
31. ADDITIONAL REMARKS **ISOL TS MT350 / DZ WIND FCST AT 15KT** ICG: LGT RIME 080-180							
32. LL WIND (AGL) / TEMP (C)	005: 29015KT/08	010: 29012KT/07	015: 30015KT/07	020: 30018KT/06	030: 31015KT/05	33. MIN FZ LVL: 080 FT	
	040: 30020KT/04	050: 29030KT/03	080: 30035KT/M00	100: 30035KT/M02	34. MAX PA: +924FT	35. MAX DA: +1029FT	

A7.5. SECTION III – DESTINATION/ALTERNATE/ENROUTE FORECAST. Brief the worst conditions expected to prevail during the valid period for both destination and alternate. Ensure the aircrew is briefed on, and fully understand, the entire weather situation at the destination, alternates, and if requested enroute location forecast. The need for and the selection of an alternate is a pilot decision, however local procedures might dictate common locations for alternate airfields. See [Figure A7.5](#) for an example of Section III.

A7.5.1. Block 36. **ICAO.** Enter the appropriate ICAO identifier for the destination and annotate (DEST), alternate (ALTN), or enroute (ENRTE) aerodrome forecast data using the drop-down option. If a destination has additional forecast data that won't fit in the area provided, or is best described by a TEMPO condition, drop down to the next line, and enter TEMPO in the fillable block then enter the subsequent information.

A7.5.2. Block 37. **WIND.** Enter true wind direction if the destination is an airfield other than your own. If the flight departs from and terminates at your own airfield with no intermediate stops, enter the wind direction magnetic. Enter surface wind direction to the nearest 10 degrees in three digits and surface wind speed (including gust) in two or three digits. Ensure wind entries use a minimum of 5 digits (3 digits for direction and 2 digits for speed). Surface winds will have 2 digits to represent gusts, while winds aloft will use 3 digits for speed when winds exceed 99 knots. Enter "VRB" for a forecast variable wind direction.

A7.5.3. Block 38. **VISIBILITY (VIS).** Enter forecasted visibility in statute miles (SM) Enter the lowest prevailing visibility and weather expected during the valid period. Represent in statute miles for CONUS and overseas US locations, and in meters for other overseas locations, unless otherwise specified by the aircrew. **Note:** While a visibility of less than 7SM/9999 meters requires a weather and/or obscuration, weather such as precipitation does not require a restriction to visibility to be reported in a forecast (e.g., 9999 –RA). In this case, the weather is significant because it is occurring, not because it is restricting visibility.

A7.5.4. Block 39. **WEATHER.** Enter and encode expected weather during the valid period.

A7.5.5. Block 40. **SKY CONDITION/HAZARDS.** Enter and encode expected sky condition during the valid period. Supplement with expected low level hazards expected. If needed additional comments can be added in Block 45 "ADDITIONAL FORECASTER REMARKS"

A7.5.6. Block 41. **TEMPERATURE.** Enter the forecast temperature in degrees Celsius (prefixed with a +/- as applicable).

A7.5.7. Block 42. **ALTIMETER SETTING (ALSTG).** Enter the lowest altimeter setting expected during the valid period.

A7.5.8. Block 43. **PRESSURE ALTITUDE (PA).** Enter the forecast pressure altitude for the arrival time at the destination.

A7.5.9. Block 44. **VALID TIME.** Enter the valid time 1 hour either side of the estimated time of departure (ETD). (e.g., a 1330Z departure would be: 1230-1430).

A7.5.10. Block 45. **ADDITIONAL FORECASTER REMARKS.** This block is for any other significant data, additional supplemental information, local briefing requirements, or comments the forecaster deems necessary that didn't fit in Section III or anywhere in the briefing.

A7.5.11. Block 46-48. **PMSV LOCATION/FREQUENCY/PHONE PATCH.** Enter the PMSV frequency and/or phone patch number of the weather unit providing the briefing. If PIREPs/AIREPs are requested for specific areas, enter the areas in block 45 (e.g., Request PIREP/AIREP DURGC).

A7.5.12. BRIEFING DATA.

A7.5.12.1. Block 49. **BRIEFED TIME.** If briefed in person/verbally, enter time briefed. If sent electronically and not verbally briefed, enter time brief was emailed, faxed, web based, or passed to a central dispatch facility (618 AOC (TACC), 557 WW, etc.) and append an "E" in front of the time (e.g., E1015Z). If the crew calls later for a verbal briefing, put a solidus after the "E" time and enter the verbal brief time (e.g., E1015Z/1035Z).

A7.5.12.2. Block 50. **INITIALS.** Enter the initials of the weather briefer or the forecaster preparing and disseminating the briefing.

A7.5.12.3. Block 51-52. **REBRIEFED TIME/INITIALS.** If weather re-briefed is different than originally briefed, summarize the changes in Block 45 and enter the re-briefing time in block 51 and initials of the forecast providing the re-brief in block 52.

A7.5.12.4. Reset Form. This optional use button is located below block 51/52. Clicking on this button will reset all fillable information on the form. **Note:** Unless you previously saved the form, once you click on the reset form button the data will be gone and can't be undone.

Figure A7.5. Example Section III DESTINATION/ALTERNATE/ENROUTE FORECAST.

SECTION III - DESTINATION/ALTERNATE/ENROUTE FORECAST									
36. ICAO	37. WIND (KT)	38. VIS	39. WEATHER	40. SKY CONDITION/HAZARDS		41. TEMP(C)	42. ALSTG	43. PA	44. VALID TIME
KBLV DEST	32015	7	VCSH	SCT020 SCT050 BKN100		+06	29.97	+409FT	2200-0000 Z
TEMPO	32025G35	5	-RA	BKN020 OVC050 LGT TURB SFC-030 / LGT RIME ICG 080-180				FT	2200-0000 Z
KSTL ALTN	33020G35	5	-RA	BKN025 OVC040 LGT TURB SFC-030 / LGT RIME ICG 080-180		+05	30.01	+528FT	2215-0015 Z
KHOP ALTN	28012	7		FEW030 SCT080		+09	29.85	+641FT	2245-0045 Z
KFTK ENRTE	29015	5SM	-RA	SCT025 BKN100		+10	29.89	+785FT	Z
45. ADDITIONAL FORECASTER REMARKS: EXPECT LGT TURB DURD OVR S IL/MO KFTK ENRTE WX WORST CASE DURG MSN				46. PMSV LOCATION KBLV		47. FREQUENCY 239.8		48. PHONE PATCH N/A	
BRIEFING DATA									
49. BRIEFED TIME (Z) E1415				50. INITIALS FCW		51. REBRIEFED TIME (Z)		52. INITIALS	

AMC FORM 181
Prescribed by AMCI15-101

PREVIOUS EDITION IS OBSOLETE

Reset Form