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AVIANO AIR BASE (USAFE)**

AVIANO AIR BASE INSTRUCTION

15-101

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Weather

WEATHER SUPPORT



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This instruction implements Air Force Policy Directives 15-1, *Weather Operations*, and Air Force Manual (AFMAN) 15-129, *Air and Space Weather Operations*. This instruction establishes responsibilities and weather support processes and procedures for weather services, including mission support forecasts; weather watches, warnings, and advisories (WWAs); information dissemination; and reciprocal support required to support these functions. This instruction applies to units assigned to the 31st Fighter Wing (31 FW) and units assigned and attached to or supported by Aviano Air Base (AB) including the Air National Guard and Air Force Reserve. Ensure all records created as a result of processes prescribed in this publication are maintained IAW AFMAN 33-363, *Management of Records*, and disposed of IAW Air Force Records Disposition Schedule located at <https://www.mv.af.mil/gcss-af61a/afrims/afrims/>. Refer recommended changes and questions about this publication to the Office of Primary Responsibility (OPR) using the AF Form 847, *Recommendation for Change of Publication*; route AF Form 847s from the field through the appropriate functional chain of command. 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. See AFI 33-360, *Publications and Forms Management*, 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.

SUMMARY OF CHANGES

This document has been substantially revised and must be reviewed in its entirety. Major changes include: bringing the document in compliance with revisions to AFD 15-1 *Weather Operations*, AFMAN 15-129, *Air and Space Weather Operations*, AFI 15-128 *Weather Force Structure*, changes to USAF and Italian Air Force (ITAF) Terminal Aerodrome Forecast (TAF) and airfield observation responsibilities, and updates to base WWAs.

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Chapter 1

OVERVIEW

1.1. General. 31st Operations Support Squadron Weather Flight (31 OSS/OSW) provides and arranges weather support for the 31 FW. Basic weather concepts, procedures, and requirements are outlined in USAF and USAFE directives, instructions, and manuals. This instruction establishes responsibilities and procedures for areas of weather support required for 31 FW operations.

1.2. Concept of Operations. A team comprised of the 31 OSS/OSW and the ITAF Weather Flight located at Aviano AB, Italy, and the 21st Operational Weather Squadron (21 OWS) located at Kapaun AB, Germany, provide weather support to the 31 FW and associate units assigned or attached to Aviano AB. 31 OSS/OSW leverages support from the 21 OWS for 24/7 forecasting services, meteorological watch (METWATCH), and resource protection (RP) services. 31 OSS/OSW utilizes data from the ITAF Weather Flight for official weather observations services during airfield operating hours. TAF services are provided by Ufficio Meteorologico del Commando Operazioni Aeree di Poggio Renatico.

1.3. Airfield Information. Aviano AB consists of eight distinct areas outlined in the base map in [Attachment 2](#). Area F is the largest area, and is home to the flight line and the majority of 31 FW operations.

1.3.1. Weather Station Location. 31 OSS/OSW's main operating location is Building 1023 on Area F. The flight may be reached by email at 31OSS.OSW@us.af.mil or by the following telephone numbers DSN: 314-6327628 or Commercial: +39-0434-30-7628.

1.3.2. Area of Responsibility. 31 FW conducts the majority of its training within Aviano AB and the surrounding Military Operating Areas (MOAs). The diagrams in [Attachment 3](#) show the most frequently used MOAs, low-level routes, and air refueling areas/tracks.

1.4. Duty Priorities. Duty priorities are listed on the Aviano AB Installation Data Page (IDP) maintained by the 31 OSS/OSW and 21 OWS.

1.5. Release of Weather Information. Weather observations, forecasts, and historical data/records will be released only to DoD agencies or contractors under contract to the USAF. All other agencies and civilians will be referred to 31 FW Public Affairs (31 FW/PA), 31 FW Staff Judge Advocate (31 FW/JA), and/or the Aviano AB Freedom of Information Act and Privacy Manager (31 CS/SCXK) offices to obtain approval prior to the release of weather records.

1.6. Utilization of Weather Personnel. IAW AFMAN 15-129, the 31 OSS/OSW is responsible for providing resource protection during significant weather episodes. Due to the unpredictable nature of weather, care should be taken not to task 31 OSS/OSW personnel to additional or temporary duties not related to weather (i.e. security forces augmenters, unit safety representative, etc.). Providing RP may have a higher priority of duty than assignment to base details and additional duties out of the weather facility. Agencies wishing to task personnel from 31 OSS/OSW should coordinate at least one month in advance with 31 OSS/OSW leadership as to their ability to support the tasking. If weather personnel are tasked for additional duties unrelated to weather, 31 OSS leadership reserves the right to recall tasked individuals.

Chapter 2

LIMITATIONS TO WEATHER SERVICES

2.1. Forecasting Limitations. The TAF for Aviano AB is produced every 3 hours by the ITAF beginning at 0500Z continuing through airfield closure. They follow NATO thresholds for reportable criteria.

2.2. RADAR Limitations. 31 OSS/OSW supports a Portable Doppler Radar located on Area F of Aviano AB. Mountains to the north block radar returns for storms developing over the mountains. Storms between 5-10 NM of Area F are not visible due to the radar's cone of silence/beam width issues.

Chapter 3

AIRFIELD SUPPORT FUNCTION

3.1. General. Airfield support services provides weather monitoring and information affecting the Aviano aerodrome, the base, and personnel living in the local area. Airfield weather services provides the EQYV USAF weather observation and TAF, METWATCH, and resource protection within a 10 NM radius of the airfield on Area F.

3.1.1. Long-range forecast. The Aviano AB 5-day forecast is disseminated on the 31 FW Sharedrive. This product provides planning weather for outdoor events but is not intended for operational use.

3.1.2. Pilot-to-Metro Service (PMSV). 31 OSS/OSW provides PMSV under callsign “Aviano METRO” as listed in the Flight Information Publication (FLIP). Weather operates this program IAW AFMAN 15-129 and uses standard phraseology found in Federal Aviation Administration Handbook.

3.1.3. Pilot Reports (PIREPs). Airfield services receive and disseminate all urgent and routine PIREPs IAW duty priorities.

3.1.4. EQYV Observation. The EQYV observation may be used for flight safety, emergency operations, alternate airport diversion, Visual Flight Rules (VFR) determination (only when field is reported VFR by the ITAF), and RP decisions (only when it is more restrictive than the LIPA observation) at the discretion of the 31 OG/CC, or designated representative.

3.1.5. EQYV TAF. 31 OSS/OSW produces a TAF for use only by local USAF aircraft. It may be provided for informational purposes to USAF aircraft taking off and landing at Aviano as supplement to the LIPA TAF. It may be used for decision making and resource protection only when more restrictive than the LIPA TAF and at the discretion of the 31 OG/CC, or designated representative.

3.2. Standard Operating Hours.

3.2.1. Normal Duty Services. 31 OSS/OSW will be on duty during normal duty hours, from 0800L on Monday through 2000L on Friday with the exception of holidays, USAFE family days, and extended/reduced airfield hours unless otherwise stated. Deviations to these hours can be made as required to support mission needs. A standby member will be subject to recall at all times when the weather station is closed. A standby technician may be recalled via cellphone at +39-331-617-4598 and will man the weather station no more than 30 min after being recalled.

3.2.2. Weekend Services. A forecaster will be present in the building for weekend service only when 31 FW aircraft are flying to or from Aviano AB. If 31 FW aircraft do not require weather support over the weekend, then ITAF assets will receive sufficient weather support from their own Italian Telecommunication and Meteo Squadron. Transient aircraft can reach back to their supporting weather unit or the 21 OWS. However, a stand-by forecaster will be readily available for recall during hazardous weather.

3.3. Alternate Operating Location (AOL). If the primary work site is non-operational, or the technician has to evacuate Building 1023, weather support will be performed from the AOL. The forecast desk at the 510th Fighter Squadron (510 FS) is the primary AOL, the forecast desk at the

555th Fighter Squadron (555 FS) is the secondary AOL, and the Emergency Operations Center (EOC) is the tertiary AOL. However, if these locations are unsafe or inaccessible, any location with a view of the airfield complex, a telephone, and access to the base local area network may be used as an AOL in an emergency.

3.4. Cooperative Weather Watch (CWW). CWW is a process by which 21 OWS, Air Traffic Control (ATC), Supervisor of Flying (SOF), flying units, Security Forces, Civil Engineering, Command Post (CP), and other emergency personnel report changes in weather conditions to 31 OSS/OSW. CWW ensures notification of previously unreported weather conditions that could affect flight safety or impact the safety or efficiency of local operations, personnel, or resources. This is especially important for monitoring conditions outside of Area F not actively monitored by weather personnel and equipment.

Chapter 4

MISSION INTEGRATION FUNCTION

4.1. General. The 31 OSS/OSW is primarily responsible for a Mission Weather Product (MWP) or DD Form 175-1, *Flight Weather Brief*. When possible, the mission forecaster deploys with assigned units in order to provide weather support for contingency operations, exercises, TDYs, etc.

4.2. Standard Operating Hours. Forecaster hours will flex to meet 31 FW flying squadron mission requirements.

4.3. Local MWP. A local MWP consists of two parts: the Mission Execution Forecast (MEF), a planning document produced twice daily to support local flying; and a verbal brief provided to each aircrew or squadron Top-3 based on individual mission weather thresholds. These two parts in conjunction are the equivalent of a DD Form 175-1, prescribed by AFMAN 15-129.

4.3.1. **Attachment 4** is an example of the MEF. Due to continuous upgrades to technology and mission requirements, the content or format of the product may be changed whenever new information/technologies are deemed significant to operations or obsolete.

4.3.2. **Briefing Procedures.** The local MEF is disseminated, via the 31 FW Sharedrive, typically with the first MEF issued at 0700L and the second at 1500L. During irregular flying windows, the MEF will be published at least 2 hours prior to the first step time. Deviations from this schedule must be coordinated prior. Aircrew or Top-3 will call the weather station to receive a finalized step brief prior to departure. If a forecaster is available at the operations desk within the flying unit, aircrew will receive an in-person finalized flight brief prior to departure.

4.3.3. **Updates to MWPs.** Updates to each MWP will be communicated to aircrew or squadron Top-3s prior to aircrew step brief time.

4.3.4. **Amendments.** The MWP will be amended IAW AFMAN 15-129, and at any time it is deemed unrepresentative of the actual or forecast conditions.

4.4. Flight Weather Briefing (FWB) (DD Form 175-1). FWBs are provided/arranged for aircrews as requested IAW duty priorities. 31 OSS/OSW requests at least 2 hours advance notice be provided prior to brief time.

4.5. MISSIONWATCH. A MISSIONWATCH is conducted by the mission forecaster on all areas of operations and will use risk management to focus on daily mission areas to be used by the 31 FW, IAW AFMAN 15-129. If the technician determines the need to notify aircrew of weather changes discovered during MISSIONWATCH, they will immediately contact the SOF and the flying squadron Top-3s, and provide pertinent information to these individuals for relay to aircrew.

Chapter 5

LATERAL WEATHER SUPPORT AGENCIES

5.1. 21 OWS. The 31 OSS/OSW works in concert with the 21 OWS to accomplish weather mission requirements.

5.1.1. Outages. If a communication outage occurs at the 31 OSS/OSW or a Continuation of Operations Plan is ordered, then the 21 OWS assumes all METWATCH and forecast responsibility until communication is restored and the 31 OSS/OSW again accepts responsibility.

5.1.2. Recall Notification. During closure hours, 21 OWS will notify the 31 OSS/OSW stand-by forecaster if unexpected weather or an emergency is occurring.

5.1.3. Special Weather Statements (SWS). 21 OWS will issue a SWS coordinated with the 31 OSS/OSW in order to notify military decision makers of widespread severe weather events.

5.1.4. IDP. The 21 OWS coordinates with 31 OSS/OSW to maintain an updated IDP, which contains all relevant WWAs for Aviano AB.

5.1.5. Briefing Support. 21 OWS provides CORONET briefings and flight weather briefings unable to be covered by 31 OSS/OSW and Air Operations Squadron (AOS) to include transient aircraft and non-31 FW assets.

5.1.6. Support Assistance Requests (SARs). 31 OSS/OSW may submit a SAR to the 557th Weather Wing (557 WW) for specialized weather services, which will likely fall under the 21 OWS.

5.2. ITAF Weather Flight (ITAF WF). Aviano AB is property of the ITAF which allows USAF and DoD use of space and facilities. Coordination between 31 OSS/OSW and ITAF is outlined in the Letters of Agreement between the Comandante Aeroporto Pagliano e Gori and the 31 FW/CC, "ITAF and USAF Weather Observation Usage." ITAF WF has the following responsibilities:

5.2.1. Issues and amends TAFs for Aviano AB under LIPA during airfield operating hours. The LIPA TAF is the official forecast for Aviano AB. 31 OSS/OSW is not authorized to create, change, manipulate, correct, or amend any LIPA TAF.

5.2.2. The ITAF weather observations (LIPA) are made by the Italian weather station during all airfield open hours. The LIPA observation is the official observation for Aviano AB. 31 OSS/OSW is not authorized to create, change, manipulate, correct, or amend any LIPA observation.

Chapter 6

SPECIAL SUPPORT

6.1. General. Unless stated otherwise in this instruction, the minimum notification time required to request special briefing support is 5 working days advance notice via coordination with 31 OSS/OSW leadership. Requests will be fulfilled if weather personnel are available.

6.2. Staff Briefings and Weather Support. Staff weather services offer a direct interface with the 31 FW/CC and staff, and provides support to command, control, and planning throughout the command chain. They engage with SOFs, ATC, Operations Centers, the servicing OWS, and other operational users in the supported unit. 31 OSS/OSW aid in the development of base support plans, operations plans, snow and ice plans, emergency management procedures, memorandums of understanding, host-tenant support agreements, airfield local operating procedures, etc. as weather subject matter experts. These briefings and services are generally provided by 31 OSS/OSW leadership. Staff weather services are built to be flexible and are tailored to meet the needs of the customer.

6.2.1. Mission Generation. Weather support will be provided in the form of an extended outlook. If requested, a verbal may be provided and will generally consist of the synoptic situation, local forecast, and forecast for areas of interest.

6.2.2. EOC. 31 OSS/OSW leadership sits as a member of the EOC. They provide the mission director and 31 FW senior leadership current and forecast weather data for Aviano AB and other pertinent locations. During EOC activation, the EOC representative ensures the 31 FW/CC and wing leadership have up-to-date weather information and WWAs that could impact operations.

6.2.3. OPREP-3/SITREP Data. Staff weather support will provide weather data upon request for Operations and Situation Reports.

6.3. Transient Aircraft. Transient aircraft will primarily receive support from their home weather station. 31 OSS/OSW may provide transient aircraft briefings if a technician is available during the 31 FW flying window and time allows. When no technician is on duty, or when higher duty priorities preclude it, the 21 OWS will provide the flight weather briefings.

6.4. Cross-Country Support. 31 FW aircrews departing Aviano AB whose final destination is not Aviano AB, will contact 31 OSS/OSW to obtain the necessary weather briefing. 31 FW aircrews departing another location and whose final destination is not Aviano AB may contact the 31 OSS/OSW or the 21 OWS flight weather briefing desk for flight weather information.

6.5. Deployment/Contingency. 31 OSS/OSW will provide in-squadron briefings in support of deployments and/or contingency operations when able. General information required for briefing support is briefing time and location, take-off times, route, and destination. The Air Combat Command Air Operations Squadron (ACC AOS) is the lead weather unit (LWU) for all CORONET briefings, and will provide en-route weather support for those movements.

6.6. Exercise/Training. 31 OSS/OSW is part of the Wing Inspection Team to participate in planning exercises and evaluating weather support. 31 OSS/OSW provides real and/or exercise data for exercise scenarios and coordinate support with 31 FW/XP and 31 FW/IG.

6.7. CORONET. The 31 OSS/OSW may provide a DD Form 175-1 upon departure from Aviano AB as requested, but the en-route flight information will be provided by the ACC AOS in Langley. These briefings are prepared and briefed upon request from the coordinating ACC Delivery Control Officer, who will establish brief times and locations.

6.8. Severe Weather Action Plan (SWAP). 31 OSS/OSW leadership establishes SWAP in order to provide extra protection and monitoring during severe weather events.

6.9. Base/School Delays and Cancellations. When requested, 31 OSS/OSW will provide weather information for the 31 MSG/CC for impacts to operations.

6.10. Chemical Downwind Messages (CDM) and Effective Downwind Messages (EDM). 31 OSS/OSW will provide weather information for creation of CDMs and EDMs as required.

6.11. Tropical Cyclone Support. Though Aviano AB does not enact official Tropical Cyclone Conditions of Readiness or Hurricane Conditions, 31 OSS/OSW will provide the necessary forecast services/products required for installation commanders to make mission execution decisions such as evacuation and RP.

6.12. Volcano Support. 31 OSS/OSW will use the appropriate Volcanic Ash Advisory Center (VAAC) to provide necessary forecast services/products required for installation commanders to make mission execution decisions such as evacuation and RP.

6.13. Climatological Support. Daily, monthly, or annual climatology information is provided upon request. All requests for weather beyond 5 days are considered climatology reports.

6.14. Airfield Operations Board (AOB). 31 OSS/OSW leadership will participate in quarterly AOB meetings according to AFI 13-204, V3, *Airfield Operations Procedures and Programs*.

6.15. Quarterly Flight Safety Meeting (QFSM) / Quarterly SOF Meeting. 31 OSS/OSW personnel will brief aircrews on seasonal weather trends and threats they may encounter during that quarter.

6.16. ATC Limited Observing Program. Due to the host nation maintaining Senior Airfield Authority, the ITAF does not recognize USAF personnel as authorized observers. Therefore, the 31 OSS/OSA does not have a Limited Observing Program and does not require additional training from the 31 OSS/OSW.

6.17. Space Weather. Ionospheric conditions for Ultrahigh Frequency (UHF) satellite communications (SATCOM) (245-410 MHz) applications, full spectrum high frequency (HF), and single-frequency global positioning system (GPS) error mapping is monitored by the 31 OSS/OSW, with products briefed/amended according to 31 FW needs.

6.18. Sea States. 31 OSS/OSW monitors sea surface temperatures and can provide information upon request.

Chapter 7

WEATHER WATCHES, WARNINGS, AND ADVISORIES (WWAS)

7.1. General. WWAs will be issued when any of the specific criteria listed on the Aviano AB IDP is occurring or is expected to occur, as appropriate, within a 5 NM radius (unless otherwise specified) from the center of the Aviano AB runway. All WWAs will be issued by the 31 OSS/OSW as prescribed below, or by the 21 OWS when the 31 OSS/OSW is unable to do so and there is imminent risk to life and/or property. [Attachment 5](#) lists the IDP for Aviano AB, but it may vary over time to flex with supported units.

7.2. Definitions.

7.2.1. **Weather Watch.** A watch means there is potential for hazardous weather posing a threat to life or property. Units and personnel should have a plan of action in case a watch is upgraded to a warning. It is intended to provide enough lead time so those who need to make preparations for weather events may do so.

7.2.2. **Weather Warning.** A warning is issued when a hazardous event posing a threat to life or property is occurring, imminent, or likely to occur. All efforts are made to issue warnings with enough lead time for units to take action to protect equipment and personnel.

7.2.3. **Weather Advisory.** An advisory is issued when an event is occurring, imminent, or likely to occur. Advisories are for less serious conditions than warnings, where weather may not be damaging, but could cause significant impact to operations or lead to damages if caution is not taken.

7.2.4. **SWS.** A SWS provides advanced notice of widespread hazardous weather conditions that have the potential to affect multiple military installations. It is issued by the 21 OWS in coordination with the 31 OSS/OSW.

7.3. Dissemination. 31 OSS/OSW uses the Joint Environmental Toolkit (JET) as its primary method for WWA dissemination. If there is a JET outage or dissemination issue, then the forecaster will manually disseminate WWAs to affected agencies via DSN or any available avenue.

7.4. SWAP. When severe weather threatens Aviano AB, the 31 OSS/OSW will take actions to monitor the weather and provide timely notification to base agencies. Standby personnel will also be available for recall at all times and will man the weather station as needed. The weather flight will identify in local standard operating procedures further SWAP actions required.

7.5. Local Community Notifications. For significant weather disruptions that will affect the local area as well as Aviano AB, such as flooding, fires, hazardous driving conditions, snow and ice, etc., the 31 OSS/OSW works with the 31 FW/PA to push notifications to alert families and the local community of off-base threats.

Chapter 8

RECIPROCAL SUPPORT.

8.1. 31 FW/CP.

8.1.1. Requests weather data from 31 OSS/OSW to complete any OPREP-3, Commander's Critical Information Report, SITREP, or other report which involves severe weather, aircraft mishaps, or natural disasters.

8.1.2. Relays all received PIREPs, Mission Reports, or significant weather information to 31 OSS/OSW.

8.1.3. Collects severe weather impacts, reported weather damages or losses, or any weather event deemed significant enough to require an investigation as part of the CWW and reports them to the 31 OSS/OSW.

8.2. 31st Operations Support Squadron (31 OSS).

8.2.1. Airfield Management (31 OSS/OSAB).

8.2.1.1. 31 OSS/OSAB notifies the 31 OSS/OSW of any aircraft mishaps, in-flight emergencies, and runway condition changes.

8.2.1.2. Notifies the 31 OSS/OSW of changes to FLIPs and chart orders. Coordinates FLIP amendments/updates and provides updated materials to the 31 OSS/OSW as they become available.

8.2.1.3. Includes weather support information in NOTAMs.

8.2.1.4. Notifies the 31 OSS/OSW of all Distinguished Visitors, transient aircraft schedules, and changes to local flight plans/schedules to include aircraft arriving or diverted because of weather.

8.2.1.5. Disseminates WWAs as applicable over the Secondary Crash Net.

8.2.1.6. Monitors the Pilot-to-Dispatch radio for PMSV contacts during 31 OSS/OSW PMSV outages.

8.2.2. Radar, Airfield, and Weather Systems (31 OSS/OSAM).

8.2.2.1. Provides, coordinates, and/or arranges for maintenance of weather equipment utilized by the 31 OSS/OSW.

8.2.2.2. Provides routine annual calibration of the TMQ-53 [Tactical Meteorological Observing System] and FMQ-19 [Fixed Meteorological Observing System].

8.2.3. ATC Tower (31 OSS/OSAT) will notify the 31 OSS/OSW of the following:

8.2.3.1. Evacuation of the tower.

8.2.3.2. Imminent changes to the active runway.

8.2.3.3. All PIREPs received from aircraft, especially Urgent Upper Air PIREPs that may impact aircraft operations.

8.2.3.4. Provides ATC Tower indoctrination training for all newly assigned 31 OSS/OSW personnel.

8.2.3.5. Conducts PMSV radio checks daily or as requested by the 31 OSS/OSW.

8.2.3.6. Broadcasts official airfield weather observations and IFR/VFR pattern status.

8.3. 555th and 510th Fighter Squadrons (555/510 FS).

8.3.1. Ensures a current flying schedule is available to the 31 OSS/OSW and coordinates any changes.

8.3.2. Encourages aircrew to pass PIREPs and provide feedback to the 31 OSS/OSW.

8.3.3. Incorporates mission forecasters during deployments or TDYs if able.

8.3.4. For weather sensitivities, refer to [Attachment 6](#).

8.3.5. Coordinates all exercise, deployment, verification, CORONET, IRC, SAR, or other required non-routine weather support as with the following timeline:

Table 8.1. Timeline.

<u>Mission</u>	<u>Minimum Timeline</u>
Exercise SAR (without weather team)	3 weeks
Exercise SAR (with weather team)	2 months
Deployment SAR	2 months
CORONET coordination 175-1 update and briefing	1 week
Non-standard 175-1 (e.g. SABCA, 1-day Large Force Exercise)	3 days
Standard 175-1	2 hours

8.4. 56th Rescue Squadron (56 RQS).

8.4.1. Ensures a current flying schedule is available to the 31 OSS/OSW.

8.4.2. Encourages aircrew to pass PIREPs and provide feedback to the 31 OSS/OSW.

8.4.3. For weather sensitivities, refer to [Attachment 6](#).

8.4.4. Utilizes the SAR timelines noted for the Fighter Squadrons above.

8.5. 57th Rescue Squadron (57 RQS).

8.5.1. Ensures a current schedule is available to the 31 OSS/OSW and all jumps will be filed at least 1 working day in advance.

8.5.2. Special support excluding standard jump briefs require coordination NLT 3 weeks with flight leadership.

TAD D. CLARK, Brig Gen, USAF
Commander, 31st Fighter Wing

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

AFI 11-2F-16V3_AVIANOABSUP, *F-16 Operations Procedures*, 3 Dec 18

AFI 15-128, *Weather Force Structure*, 21 Jun 2019

AFI 33-322, *Communication and Information*, 23 Mar 2020

AFMAN 11-2HH-60GV3, *HH-60 Operations Procedures*, 19 Apr 2020

AFMAN 13-204V1, *Management of Airfield Operations*, 22 Jul 20

AFMAN 15-129, *Air and Space Weather Operations*, 09 Jul 20

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

Prescribed Forms

None

Adopted Forms

DD Form 175-1, *Flight Weather Briefing*

AF Form 847, *Recommendation for Change of Publication*

Abbreviations and Acronyms

AB—*Air Base*

AFMAN—*Air Force Manual* **AOB**—*Air Operations Board*

AOL—*Alternate Operating Location*

AOS—*Air Operations Squadron*

ATC—*Air Traffic Control*

CAT—*Category*

CDM—*Chemical Downwind Message*

CIG—*Ceiling*

CP—*Command Post*

CWW—*Cooperative Weather Watch*

EDM—*Effective Downwind Message*

EOC—*Emergency Operations Center*

FLIP—*Flight Information Publication*

31 FW—*31st Fighter Wing*

FWB—*Flight Weather Briefing*

IDP—Installation Data Page
ITAF—Italian Air Force
JET—Joint Environmental Toolkit
MEF—Mission Execution Forecast
METWATCH—Meteorological Watch
MOA—Military Operating Area
MWP—Mission Weather Product
NM—Nautical Mile
OPR—Office of Primary Responsibility
PIREP—Pilot Report
PMSV—Pilot to Metro Service
PWC—Pilot Weather Category
RP—Resource Protection
SAR—Support Assistance Request
SOF—Supervisor of Flying
SWAP—Severe Weather Action Plan
SWS—Special Weather Statement
TAF—Terminal Aerodrome Forecast
VFR—Visual Flight Rule
VIS--Visibility
WWA—Watch, Warning, Advisory

Attachment 2
AREA OF RESPONSIBILITY

Figure A2.1. AREA OF RESPONSIBILITY.



Attachment 3

FREQUENTLY USED AIR SPACES

Figure A3.1. Frequently Used Air Spaces.

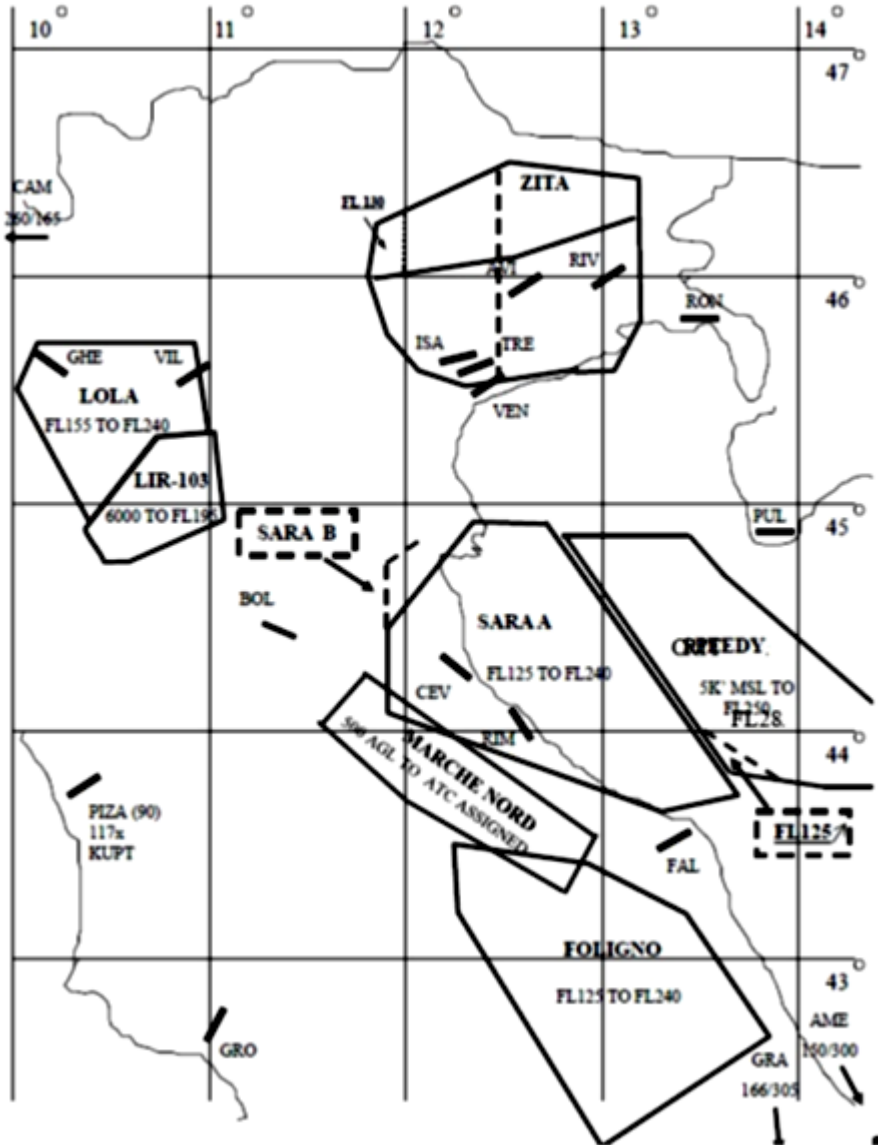


Figure A4.3. Sample MEF Template, Part 3.

Aviano AB 30 Hour Take-off & Landing Weather							ALTERNATE DESTINATION FORECASTS		CLICK HERE FOR DIVERTS
TIME	TEMP	DP	BH	ALSTO	PA	DA			
#NA			100%		145750	#NUMF	LIPI		
#NA			100%		145750	#NUMF			
#NA			100%		145750	#NUMF	LIPS		
#NA			100%		145750	#NUMF			
#NA			100%		145750	#NUMF	LIPC		
#NA			100%		145750	#NUMF			
#NA			100%		145750	#NUMF	LIRS		
#NA			100%		145750	#NUMF			
#NA			100%		145750	#NUMF	LIPL		
#NA			100%		145750	#NUMF			
#NA			100%		145750	#NUMF			
#NA			100%		145750	#NUMF			
CONTACT INFO: COMM/DSN: 0434307628/314-632-7628; PILOT-TO-METRO SERVICE (PMSV): 257.75 UHF; EMAIL: 31088.OSW@US.AF.MIL									

Attachment 5

SAMPLE INSTALLATION DATA PAGE (IDP)

Figure A5.1. Sample Installation Data Page (IDP).

Advisory Criteria			
Criteria	Forecast/Observed	Desired Lead Time	Issued By
Low Level Wind Shear (non-convective) (Aviation Only)	Observed	Observed	31 OSS/OSW
Thunderstorms w/in 10NM	Observed	Observed	31 OSS/OSW*
Induction Icing (-07 to +07C, & RH ≥ 70%)	Observed	Observed	31 OSS/OSW*
Crosswind GTE to 15KT but LT 20KT (Aviation Only)	Observed	Observed	31 OSS/OSW
Crosswind GTE 20KT but LT 25KT (Aviation Only)	Observed	Observed	31 OSS/OSW
Crosswind GTE 25KT (Aviation Only)	Observed	Observed	31 OSS/OSW
Visibility LT 400m	Observed	Observed	31 OSS/OSW*
Surface winds 25-34 knots	Observed	Observed	31 OSS/OSW*
Exercise Evacuation to Alternate Operating Location	Observed	Observed	21 OWS
Real World Evacuation to Alternate Operating Location	Observed	Observed	21 OWS
Watch Criteria			
Lightning within 5NM of the installation	---	30 minutes	31 OSS/OSW
Tornadoes	---	As potential warrants	21 OWS
Severe Thunderstorm**	---	As potential warrants	21 OWS
Moderate Thunderstorm**	---	As potential warrants	21 OWS
Damaging Winds ≥ 50 knots**	---	As potential warrants	21 OWS
Strong winds ≥ 35 knots**	---	As potential warrants	21 OWS
Freezing Precipitation	---	As potential warrants	21 OWS
Heavy snow ≥ 2 inches in 12 hours***	---	As potential warrants	21 OWS
Heavy rain ≥ 2 inches in 12 hours***	---	As potential warrants	21 OWS
Warning Criteria			
Lightning within 5NM of the installation	Observed	Observed	31 OSS/OSW*
Tornadoes	Forecast	15 minutes	31 OSS/OSW
Severe Thunderstorm**	Forecast	1 hour	31 OSS/OSW
Moderate Thunderstorm**	Forecast	1 hour	31 OSS/OSW
Damaging Winds ≥ 50 knots**	Forecast	1 hour	31 OSS/OSW
Strong winds ≥ 35 knots**	Forecast	1 hour	31 OSS/OSW
Freezing Precipitation	Forecast	1 hour	31 OSS/OSW
Heavy snow ≥ 2 inches in 12 hours***	Forecast	1 hour	31 OSS/OSW
Heavy rain ≥ 2 inches in 12 hours***	Forecast	1 hour	31 OSS/OSW
NOTES:			
Unit SWAP Activation Criteria: 1. Tornado Warning 2. Severe Thunderstorm Warning (Winds ≥ 50 knots -AND/OR- ≥ ¼ inch hail) 3. Damaging Wind Warning (≥ 50 knots) 4. Freezing Precipitation Warning			
During WF closures and in the event of expected WWA criteria, the OWS will issue watches for expected criteria and the WF will ensure personnel are on hand to issue any forecasted Advisory, Warning or Lightning Watches. During WF closures and in the event of unexpected WWA criteria, the OWS will attempt to give the EU standby forecaster 60 minutes plus criteria desired lead time in order to take responsibility for issuing forecasted Advisories, Warnings or Lightning Watches. The OWS will issue required WWAs in situations where WF personnel cannot assume responsibility in enough time to meet full desired lead time and the WF requests the OWS issue the WWAs.			

Attachment 6

AIRCRAFT SENSITIVITIES

Table A6.1. F-16., Part 1.

TAKEOFF				
TYPE	WEATHER	REQUIRED MINIMUMS		IMPACT
PILOT WEATHER CATEGORY (CAT) (PWC)	CEILING (CIG) / VISIBILITY (VIS)	PILOT CAT E	≥ 1500 FT / 5000 M	NO GO
		PILOT CAT D	≥ 700 FT / 3200 M	
		PILOT CAT C	≥ 500 FT / 2400 M	
		PILOT CAT B	≥ 300 FT / 1600 M	
		PILOT CAT A	≥ PUBLISHED A/C MINS AFI 11-2F-16V3	
FORMATION	CIG / VIS	≥ 300 FT / 1600 M OR MOST RESTRICTIVE PWC, WHICHEVER IS GREATER		NO GO
FORMATION	CROSSWIND	≥ 15 KT		NO GO
SINGLE SHIP	CROSSWIND	≥ 15 KT to < 20 KT	RUNWAY ICE/SNOW	NO GO
		≥ 20 KT to < 25 KT	RUNWAY WET	
		≥ 25 KT	RUNWAY DRY	
ALL	SURFACE WIND	≥ 35 KT		NO GO
ALL	FREEZING PRECIPITATION	ANY		NO GO
ALL	HEAVY RAIN	MODERATE OR GREATER INTENSITY		NO GO
ALL	LIGHTNING	ANY WITHIN 5 NM OF AIRFIELD		NO GO
ALL	HAIL	ANY		NO GO
LANDING				
TYPE	WEATHER	REQUIRED MINIMUMS		IMPACT
PWC	CIG / VIS	PILOT CAT E	≥ 1500 FT / 5000 M	DIVERT OR HOLD
		PILOT CAT D	≥ 700 FT / 3200 M	
		PILOT CAT C	≥ 500 FT / 2400 M	
		PILOT CAT B	≥ 300 FT / 1600 M	
		PILOT CAT A	≥ PUBLISHED A/C MINS AFI 11-2F-16V3	
FORMATION	CIG / VIS	≥ 500 FT / 2400 M OR MOST RESTRICTIVE PWC, WHICHEVER IS GREATER		DIVERT OR HOLD

FORMATION	CROSSWIND	≥ 15 KT	RUNWAY WET	DIVERT OR HOLD
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Table A6.2. F-16., Part 2.

SINGLE SHIP	CROSSWIND	≥ 15 KT TO < 20 KT	RUNWAY ICE/SNOW	DIVERT OR HOLD
		≥ 20 KT TO < 25 KT	RUNWAY WET	
		≥ 25 KT	RUNWAY DRY	
ALL	TAILWIND	≥ 10 KT		SWITCH RUNWAY
ALL	SURFACE WIND	≥ 35 KT		DIVERT OR HOLD
ALL	FREEZING PRECIPITATION	ANY		DIVERT OR HOLD
ALL	HEAVY RAIN	MODERATE OR GREATER INTENSITY		DIVERT OR HOLD
ALL	LIGHTNING	ANY WITHING 5 NM OF AIRFIELD		DIVERT OR HOLD
ALL	HAIL	ANY		DIVERT OR HOLD
GENERAL FLIGHT				
TYPE	WEATHER	MINIMUMS	IMPACT	
ALL	ICING	≥ LIGHT		ASCEND/DECEND
ALL	TURBULENCE	≥ MODERATE		DO NOT FLY INTO FORECAST OR REPORTED
ALL	THUNDERSTORMS	FLIGHT LEVEL ≥ 230	AVOID BY 20 NM OR 2000 FT ABOVE	
		FLIGHT LEVEL < 230	AVOID BY 10 NM OR 2000 FT ABOVE	
ALL	OVER WATER WINDS	≥ 25 KTS SUSTAINED		WILL NOT CONDUCT TRAINING MISSIONS OVER WATER
ALL	SEA STATE	≥ 10 FT (4M)		WILL NOT CONDUCT TRAINING MISSIONS OVER WATER
ALL	SEA SURFACE TEMP	≤ 60°F (16°C)		PILOTS WEAR ANTIEXPOSURE SUITS WHEN CONDUCTING MISSIONS OVER WATER
MISSION SPECIFIC				

MISSION	FLIGHT LEVEL	OPTIMUM WEATHER
DISSIMILAR/AIR COMBAT TRAINING (D/ACT) DEFENSIVE COUNTER AIR (DCA) AIR INTERCEPT (INCPT) OFFENSIVE COUNTER AIR (OCA) OPERATIONAL/FUNCTIONAL CHECK FLIGHT (O/FCF) AIR COMBAT MANEUVERS (ACM) BASIC FLIGHT MANEUVERS (BCM) TACTICAL INTERCEPT (TI) AIR HANDLING CAPABILITY (AHC)	050 – 370	≥ 6K FT OF CLEAR AIR SPACE ABOVE 050
INCENTIVE RIDE (INCTV) LOCAL AREA ORIENTATION (LAO)	010 - 280	≥ 6K FT OF CLEAR AIR SPACE ABOVE 050
BASIC SURFACE ATTACK (BSA) CLOSE AIR SUPPORT (CAS) FORWARD AIR CONTROL (FAC)	010 – 280	CIG ≥ 5K FT ABOVE AIRSPACE FLOOR
COMBAT SEARCH AND RESCUE (CSAR)	020 - 280	SURFACE VIS ≥ 5000 M CIG > 5k ft ABOVE
SURFACE ATTACK TACTICS (SAT) AIR TASKING ORDER (ATO) LASER GUIDED BOMB (LGB) JOINT GUARDIAN (JG)	SFC – 280	CIG ≥ 5K FT ABOVE AIRSPACE FLOOR SURFACE VIS ≥ 5000 M
LOW LEVEL FLIGHT	SFC – 050	CIG ≥ 1500 FT VIS ≥ 8000 M
INSTRUMENT CHECK CROSS COUNTRY OUT/RETURN (XCO/R)	010 – 280	≥ 10K FT OF CLEAR AIR SPACE ABOVE FLIGHT LEVEL 060
NIGHT VISION GOGGLES (NVG)	050 – 280	MIN ILLUMINATION ≥ 2.2%
AIR TO AIR REFUEL (A/R)	240 – 270	FLIGHT LEVEL VIS ≥ 400 M (WITHOUT RADAR ≥ 1600M) < MODERATE TURBULENCE

Table A6.3. HH-60.

GENERAL FLIGHT			
TYPE	CATEGORY	REQUIRED MINIMUMS	IMPACT

VISUAL FLIGHT RULES (VFR) DAY	CIG / VIS	< 700/1 (SVFR to depart)	NO GO
VFR NIGHT	CIG / VIS	< 700/2 (SVFR to depart)	NO GO
ITALY NIGHT	CIG / VIS	< 1500/5000	NO GO
INSTRUMENT FLIGHT RULES (IFR)	CIG / VIS	< Published MINS (might need alternate)	NO GO
ALL	FREEZING	SEVERE Icing (based on equipment status)	NO GO
ALL	WINDS	> 45 Knots	NO START/ STOP
ALL	TURB	SEVERE	NO GO
ALL	TS	Flight into thunderstorms is prohibited	NO GO