

**BY ORDER OF THE COMMANDER  
AIR FORCE WEATHER AGENCY**

**AIR FORCE WEATHER AGENCY  
MISSION DIRECTIVE 5206**



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**2D WEATHER GROUP**

**COMPLIANCE WITH THIS PUBLICATION IS MANDATORY**

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This mission directive implements policy and guidance in Air Force Policy Directive (AFPD) 10-1, *Mission Directives*, Air Force Instruction (AFI) 10-101, *Format and Content of Mission Directives*, and AFI 38-101, *Air Force Organization*. It defines the organization, mission, and assigned duties of the 2d Weather Group (2 WXG). Its purpose is to prescribe mission, organization, and responsibilities. Refer recommended changes and questions about this publication to the Office of Primary Responsibility (OPR) using Air Force (AF) Form 847, Recommendation for Change of Publication; route AF Forms 847 from the field through the appropriate functional's chain of command. Ensure that all records created as a result of processes prescribed in this publication are maintained in accordance with Air Force Manual (AFMAN) 33-363, *Management of Records*, and disposed of in accordance with Air Force Records Information Management System (AFRIMS) Records Disposition Schedule (RDS).

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**1. Mission.** Maximizes our nation's air, space and ground combat effectiveness by providing accurate, relevant, and timely historical and current air and space weather information. Provides scheduling and production of quality, worldwide, mission-tailored weather products 24-hours a day to meet the requirements of the National Command Authorities, Department of Defense (DoD), unified commands, combat forces of the Air Force and Army, and components of the U.S. Intelligence Community. Acts as the DoD's space weather strategic center and focal point to operate specified capabilities at the direction of DoD's Air and Space Natural Environment Modeling and Simulation Executive Agent (ASNE MSEA).

**2. Command. The 2d Weather Group Commander:**

2.1. Reports directly to AFWA/CC.

2.2. Provides leadership and direction to the group and its five squadrons, spanning twelve geographically separated locations. The five squadrons are: 2d Systems Operations Squadron (2 SYOS), 2d Weather Squadron (2 WS), 14th Weather Squadron (14 WS), 16th Weather Squadron (16 WS), and 2d Combat Weather Systems Squadron (2 CWSS).

**3. Responsibilities.**

3.1. The Commander, 2 WXG:

3.1.1. Implements Secretary of the Air Force and the Chief of Staff of the Air Force directives addressing administration and policies concerning assigned forces.

3.1.2. Maintains forces in a constant state of readiness to meet the tasked wartime support requirements for all DoD agencies.

3.1.3. Provides centralized weather, aerospace, and climatological services to the Joint Chiefs of Staff, Air Force, Army, designated unified commands, and other agencies as directed by the USAF Chief of Staff.

3.1.4. Directly supports the President, the National Command Authorities, the National Reconnaissance Office, National Geospatial-Intelligence Agency, the unified commands, and national programs of the highest priority.

**4. Organizational Structure.** Prescribed in accordance with AFI 38-101 and the 2 WXG manpower document. Attachment 2 reflects the approved 2 WXG structure.

**5. Relationship to Other Units or Agencies.** This group is authorized direct communications with HQ USAF and with Air Force MAJCOM and Army MACOM units on technical, tactical, operational, and planning issues for which 2 WXG is responsible. DODI 4000.19, *Support Agreements*, governs inter- and intra-service communications.

**6. Special Instructions.** Requests to establish, change, or revise this directive or change the approved organizational structure must be submitted with proposed functional statements and organizational structure changes, in accordance with AFI 38-101, AFD 10-1, and AFWAI 38-3 to HQ AFWA/DPB, Manpower and Organization, for approval.

LOUIS V. ZUCCARELLO, Colonel, USAF  
Commander

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

DODI 4000.19, *Support Agreements*, 25 April 2013  
AFMD 52, *Air Force Weather Agency*, 16 March 2010  
AFPD 10-1, *Mission Directives*, 21 June 2002  
AFI 10-101, *Format and Content of Mission Directives*, 12 February 2003  
AFI 15-128, *Air Force Weather Roles and Responsibilities*, 7 February 2011  
AFMAN 15-129, *Air and Space Weather Operations, Processes and Procedures*, 6 December 2011  
AFI 36-2618, *The Enlisted Force Structure*, 27 February 2009  
AFI 38-101, *Air Force Organization*, 16 March 2011  
AFWAI 38-3, *Unit Manpower Document Organizational Change Request*, 24 October 2013  
OFCM-P1, *Federal Plan for Cooperative Support and Backup Among Operational Processing Centers*

***Abbreviations and Acronyms***

**2 CWSS**—2d Combat Weather Systems Squadron  
**2 SYOS**—2d Systems Operations Squadron  
**2 WS**—2d Weather Squadron  
**2 WXG**—2d Weather Group  
**14 WS**—14th Weather Squadron  
**16 WS**—16th Weather Squadron  
**55 CS**—55th Communications Squadron  
**A3N**—Scientific Services Training Standards  
**A5C**—Capabilities  
**AETC**—Air Education and Training Command  
**AFI**—Air Force Instruction  
**AFMA**—Air Force Manpower Agency  
**AFMD**—Air Force Mission Directive  
**AFPC**—Air Force Personnel Center  
**AFPD**—Air Force Policy Directive  
**ASNE MSEA**—Air and Space Natural Environment Modeling and Simulation Executive Agent

**CS**—Communications Squadron

**DoD**—Department of Defense

**FOA**—Field Operating Agency

**GPC**—Government Purchase Card

**HQ AFWA**—Headquarters Air Force Weather Agency

**HQ USAF/A30**—W – Headquarters United States Air Force, Director of Weather

**IA**—Information Assurance

**IC**—Intelligence Community

**JET**—Joint Environmental Toolkit

**KQ**—International Civil Aeronautical Organization location identifier for temporary locations in support of military operations

**MACOM**—Major Command (Army)

**MAJCOM**—Major Command

**MD**—Mission Directive

**NOAA**—National Oceanic and Atmospheric Administration

**O&M**—Operation and Maintenance

**OPR**—Office of Primary Responsibility

**OSC**—Organizational Structure Code

**PAS**—Personnel Accounting Symbol

**SEON**—Solar Electro-Optical Network

**SOF**—Special Operations Forces

**TTP**—Tactics, Techniques and Procedures

**TWS**—Tactical Weather Systems

**USAF**—United States Air Force

**WSSC**—Weather Systems Support Cadre

**WXG**—Weather Group

**Attachment 2****SECOND WEATHER GROUP (2 WXG) ORGANIZATIONAL STRUCTURE AND  
FUNCTIONAL STATEMENTS****A2.1. Organizational Structure**

**CC** – COMMANDER  
**CCE** – EXECUTIVE  
**CCS** – COMMANDERS SUPPORT STAFF  
**DO** – OPERATIONS

**A2.2. SUBORDINATE UNIT ORGANIZATIONAL STRUCTURE****A2.2.1. 2d SYSTEM OPERATIONS SQUADRON (2 SYOS) Organizational Structure**

**CC** – COMMANDER  
**SYM** – CHANGE MANAGEMENT  
**SYO** – COMPUTER OPERATIONS FLIGHT  
**SYS** – SOFTWARE SUSTAINMENT FLIGHT  
**OL-D** – OPERATING LOCATION D

**A2.2.2. 2d WEATHER SQUADRON (2 WS) Organizational Structure**

**CC** – COMMANDER  
**CCQ** – ORDERLY ROOM  
**WXI** – INTEL FLIGHT  
**WXZ** – SPACE FLIGHT  
**OL-P** – OPERATING LOCATION P  
**DETS 1, 2, 4, 5** - SOLAR DETACHMENTS 1, 2, 4, 5

**A2.2.3. 14th WEATHER SQUADRON (14 WS) Organizational Structure**

**CC** – COMMANDER  
**CCQ** – ORDERLY ROOM  
**DOM** – SYSTEMS MANANAGEMENT  
**DOO** – CURRENT OPERATIONS

**A2.2.4. 16th WEATHER SQUADRON (16 WS) Organizational Structure**

**CC** – COMMANDER  
**WXE** – ENVIRONMENTAL CHARACTERIZATION  
**WXN** – NUMERICAL MODELS  
**WXP** – PRODUCT APPLICATIONS  
**DET 3** – DETACHMENT 3

**A2.2.5. 2d COMBAT WEATHER SYSTEMS SQUADRON (2 CWSS) Organizational  
Structure**

**CC** – COMMANDER  
**CCQ** – ORDERLY ROOM  
**DO** – OPERATIONS  
**DOT** – TRAINING  
**DOX** – PLANS

**OL-A – OPERATING LOCATION A**

**OL-H – OPERATING LOCATION H**

### **A2.3. 2 WXG FUNCTIONAL STATEMENTS**

#### **A2.3.1. COMMANDER (OSC: CC, CCE, CSS AND DO)**

A2.3.1.1. Provides leadership and exercises command jurisdiction over all activities of the 2 WXG.

A2.3.1.2. Assesses organizational capabilities and assists the AFWA Commander in establishing organizational goals.

A2.3.1.3. Monitors and manages contracted obligations under congressionally imposed constraints and statutes dictating financial management requirements.

### **A2.4. 2 SYOS FUNCTIONAL STATEMENTS**

#### **A2.4.1. 2 SYOS COMMANDER (OSC: CC)**

A2.4.1.1. Provides leadership and exercises command jurisdiction over all activities of the 2 SYOS.

A2.4.1.2. Directs the delivery of reliable and timely global environmental intelligence products and services for DoD and its global interests through the 24x7 operation, sustainment and maintenance of the Air Force's strategic weather center computer complex, production network, and applications.

A2.4.1.3. Provides situational awareness on strategic weather center operations impacting Joint Staff, unified commands, intelligence community (IC), SOF, Numbered Air Forces, regional weather centers, and national/international agencies.

A2.4.1.4. Advises and assists the 2 WXG Commander in developing group policy, procedures, and resource execution plans.

A2.4.1.5. Evaluates technical performance, identifies trends, and provides corrective measures to address performance deficiencies and continuously improve weather processes and procedures.

A2.4.1.6. Assesses organizational capabilities and assists the 2 WXG Commander in establishing organizational goals.

A2.4.1.7. Advises the 2 WXG Commander on the state of morale, health, welfare, training and support for personnel assigned.

A2.4.1.8. Chairs regularly scheduled meetings to coordinate changes in the AFWA data center production environment. Deconflicts major maintenance and implementation activities to reduce overall risk while maximizing capability delivery.

A2.4.1.9. Directs production system/software problem/outage resolution for strategic weather center computer complex.

#### **A2.4.2. CHANGE MANAGEMENT Flight (OSC: SYM)**

A2.4.2.1. Directs Change Management activities for 2 WXG software products and services.

A2.4.2.2. Performs independent software testing prior to implementation of changes into production baseline.

A2.4.2.3. Provides for software Configuration Management.

#### **A2.4.3. Computer Operations Flight (OSC: SYO)**

A2.4.3.1. Serves as the single point of operations and control for all production-related communications and information equipment and dataflow into, out of, and within the strategic center 24x7.

A2.4.3.2. Operates 2 WXG information systems to satisfy current requirements.

A2.4.3.3. Performs or arranges for operational analysis to ensure hardware and software platforms are running with maximum efficiency and effectiveness.

A2.4.3.4. Directs resources performing system administration (SA) on 2 WXG systems. Provides SA for non-program managed Windows and UNIX servers (Microsoft (MS), Structured Query Language (SQL), Remedy, etc).

A2.4.3.5. Provides system and application administration, user account and technical support, automation/workflow creation and sustainment, and user training for the FOA collaboration environment.

A2.4.3.6. Provides 24x7 technical systems support for Air Force's fielded weather hardware and software systems worldwide.

A2.4.3.7. Manages all aspects of the computer operations floor/data center to include physical security, the environmental monitoring system, environmental and power conditions, and computer production floor space utilization.

A2.4.3.8. Maintains SECRET and below Computer Security (COMSEC) account.

A2.4.3.9. Performs Equipment Control Officer responsibilities for the AFWA "Offutt Campus". Manages inventories of hardware and software assets for the HQ.

A2.4.3.10. Provides desktop computer support, helpdesk services, and assists with the administration of the FOA Capital Equipment Replacement Program. Serves as the HQ AFWA technical representative to the USAF Standard Desktop Working Group.

A2.4.3.11. Maintains the functional network components, up to and including the link to the 55 Communications Squadron (55 CS) Offutt network. Installs network hardware and wiring as needed to support AFWA production systems.

A2.4.3.12. Coordinates all network upgrades and maintenance with the Integrated Network Operations and Security Center (I-NOSC) through the 55 CS, as required.

A2.4.3.13. Provides infrastructure and network support for AFWA's Sensitive Compartmented Information Facility.

#### **A2.4.4. Operating Location D – Keesler afb, MS**

A2.4.4.1. Provides Joint Environmental Toolkit (JET) system administration functions at the Air Education and Training Command (AETC) weather training schoolhouse.

#### **A2.4.5. SOFTWARE SUSTAINMENT Flight (OSC: SYS)**

A2.4.5.1. Ensures operational viability of software for collection processing, and dissemination of meteorological and space weather information during peace/wartime. Provides 24x7 return to service support for assigned software.

A2.4.5.2. Operates HQ AFWA software used to control inter-system transfer of weather data and products. Stores and exports data from satellites, and ingests, validates, processes, and applies conventional, satellite, model or other weather data in a distributed computing environment.

A2.4.5.3. Maintains observational platform database from fixed and mobile weather sites worldwide. Maintains KQ identifier lists, provides KQ identifiers, and recalls KQ identifiers in support of field users.

A2.4.5.4. Performs net-centric data management and routing functions. Provides database administration and maintenance functions.

## **A2.5. 2 WS FUNCTIONAL STATEMENTS**

### **A2.5.1. COMMANDER (OSC: CC)**

A2.5.1.1. Provides leadership and exercises command jurisdiction over all activities of the 2 WS.

A2.5.1.2. Directs the scheduling and production of quality, worldwide, mission-tailored weather products 24-hours a day to meet the requirements of the National Command Authorities, DoD, unified commands, combat forces of the Air Force and Army, and the IC.

A2.5.1.3. Operates and maintains the DoD's global Solar Electro-Optical Network (SEON), which provides real-time data and analyses of the solar environment.

A2.5.1.4. Advises and assists the 2 WXG Commander on group policy, procedures, and resource execution plans.

A2.5.1.5. Assesses organizational capabilities and assists the 2 WXG Commander in establishing organizational goals.

A2.5.1.6. Advises the 2 WXG Commander on the state of morale, health, welfare, training and support for personnel assigned.

A2.5.1.7. Leads and manages operations for the squadron ensuring warfighter requirements are met in a timely and quality manner.

A2.5.1.8. Evaluates technical performance, identifies trends, and provides corrective measures to address performance deficiencies and continuously improve processes and procedures.

A2.5.1.9. Assists the 2 WS Commander in performing command duties and responsibilities; and within the limitations established by the commander, acts in his/her stead in all matters relating to command.

### **A2.5.2. ORDERLY ROOM (OSC: CCQ)**

A2.5.2.1. Administers Quality Force Program and personnel actions requiring HQ Squadron Commander approval. Personnel actions requiring approval include, but are

not limited to, the following: leave web, evaluations, promotions, assignments, and reenlistments.

A2.5.2.2. Manages and maintains records for all military personnel assigned to AFWA, supporting all collocated PAS Codes. CCQ records management includes, but is not limited to, the following: personnel information files, unfavorable information files, fitness files, and retirements files.

A2.5.2.3. Works directly with commander, supervisors, and unit members to ensure discipline is equitably maintained, and morale, welfare, and health needs of the enlisted force are met. Exercises general supervision over all enlisted personnel.

A2.5.2.4. Manages the military personnel program, officer and enlisted promotions, officer and enlisted assignment actions, Professional Military Education actions, separation programs, military performance reports and evaluation systems, formal training, and military and civilian awards and decorations.

A2.5.2.5. Administers the Freedom of Information Act and Privacy Act Programs for the squadron in accordance with governing directives.

#### **A2.5.3. INTEL Flight (OSC: WXI)**

A2.5.3.1. Provides weather information to classified National Programs as directed by the Secretary of the Air Force.

A2.5.3.2. Provides mission-tailored, target-specific planning and executes weather analyses and forecasts to components of the U.S. Intelligence Community assets controlled by the Secretary of the Air Force, worldwide combat forces assigned to all Unified Commands, and all components of the U.S. Intelligence Community.

A2.5.3.3. Analyzes high-resolution satellite imagery from the Defense Meteorological Satellite Program (DMSP) and performs quality control of a computer-generated database of global cloud cover. Integrates weather data from military and civilian ground observations, geostationary and polar-orbiting satellites, and computer atmospheric models.

A2.5.3.4. Responds to short notice weather taskings in support of DoD contingencies and provides briefings to senior DoD leaders on environmental threats. Processes and provides rapid response, tailored imagery and analyses for routine and contingency support to the DoD.

A2.5.3.5. Provides worldwide volcanic ash plume surveillance and serves as the DoD focal point for analyses and forecasts of volcanic ash hazards.

A2.5.3.6. Provides backup to for National Oceanic and Atmospheric Administration (NOAA), Washington - Volcanic Ash Advisory Center (reference OFCM-P14 *Federal Plan for Cooperative Support and Backup Among Operational Processing Centers*).

A2.5.3.7. Performs quality control of worldwide snow and ice database. Performs regional snow depth analyses.

A2.5.3.8. Maintains the capability to work in all security enclaves from Unclassified to Top Secret-Sensitive Compartmented Information (TS-SCI).

**A2.5.4. SPACE Flight (OSC: WXZ)**

A2.5.4.1. Acts as the DoD's 24x7 space weather center, providing space environmental data, analyses, forecasts, model output, system anomaly assessments, and other strategic-level products.

A2.5.4.2. Evaluates quality of space weather data and monitors operational status of space weather sensing systems.

A2.5.4.3. Provides backup capability for National Weather Service, Space Weather Prediction Center products (reference OFCM-P14).

A2.5.4.4. American Forces Network Weather Center

A2.5.4.4.1. Produces television shows for DoD's Defense Media Activity for broadcasting weather forecasts on American Forces Radio and Television.

A2.5.4.4.2. Produces weather forecasts for print in the Stars and Stripes Newspaper.

**A2.5.5. OPERATING LOCATION P, HQ AFWA, SPACE WEATHER PREDICTION CENTER, BOULDER, CO**

A2.5.5.1. Liaises between the USAF and the director for NOAA space weather activities.

A2.5.5.2. Coordinates space and geophysical environmental analyses, forecasts, and warnings. In addition, arranges for shared data collection, distribution, and archival, as well as sensor management, with the NOAA space weather program on behalf of the USAF.

**A2.5.6. SOLAR DETACHMENTS 1, 2, 4, and 5**

A2.5.6.1. Directs collection, analysis, and reporting of space environmental data.

A2.5.6.2. Reviews regulations impacting operations, maintenance, and security and prepares/manages budget to meet requirements.

A2.5.6.3. Plans and directs all organizational level and Centralized Repair Activity maintenance, calibration and repair of detachment's SEON equipment.

**A2.6. 14 WS FUNCTIONAL STATEMENTS****A2.6.1. COMMANDER (OSC: CC)**

A2.6.1.1. Provides leadership and exercises command jurisdiction over all activities of the 14 WS.

A2.6.1.2. Directs the safeguarding and exploitation of DoD's authoritative source of historical weather data and environmental technical information thereby ensuring the creation of unparalleled earth-environmental decision-enabling products, allowing command authorities to anticipate and simulate environmental impacts on all aspects of military operations worldwide.

A2.6.1.3. Serves as the technical interface with National Climatic Data Center, co-located in Asheville, NC, providing cooperative federal climatological support (reference OFCM-P14).

A2.6.1.4. Advises and assists the 2 WXG Commander in developing group policy, procedures, and resource execution plans.

A2.6.1.5. Manages the squadron's civilian personnel program. Interfaces with HQ AFWA staff, Charleston AFB Civilian Personnel Office, AFMA, and AFPC on civilian personnel matters (filling positions, performance appraisals, disciplinary actions, etc.).

A2.6.1.6. Assesses organizational capabilities and assists the 2 WXG Commander in establishing organizational goals.

A2.6.1.7. Advises the 2 WXG Commander on the state of morale, health, welfare, training and support for personnel assigned.

A2.6.1.8. Leads and manages operations for the squadron ensuring warfighter requirements are met in a timely and quality manner.

A2.6.1.9. Evaluates technical performance, identifies trends, and provides corrective measures to address performance deficiencies and continuously improve processes and procedures.

A2.6.1.10. Assists the 14 WS Commander in performing command duties and responsibilities; and within the limitations established by the commander, acts in his/her stead in all matters relating to command.

#### A2.6.2. **ORDERLY ROOM (OSC: CCQ)**

A2.6.2.1. Works directly with commander, supervisors, and unit members to ensure discipline is equitably maintained, and morale, welfare, and health needs of the enlisted force are met. Exercises general supervision over all enlisted personnel.

A2.6.2.2. Manages the military personnel program, officer and enlisted promotions, officer and enlisted assignment actions, Professional Military Education actions, separation programs, military performance reports and evaluation systems, formal training, and military and civilian awards and decorations.

A2.6.2.3. Administers the Freedom of Information Act and Privacy Act Programs for the squadron in accordance with governing directives.

#### A2.6.3. **SYSTEMS FLIGHT (OSC: DOM)**

A2.6.3.1. Directs computer and network operations, information systems development, security, and maintenance activities to satisfy unit support requirements.

A2.6.3.2. Works with HQ AFWA staff in developing plans to meet new requirements and for timely replacement of legacy information technologies.

A2.6.3.3. Advises the commander on information technology issues to include implementation of DoD and Air Force policies and procedures.

A2.6.3.4. Serves as the single point of operations and control for all production-related communications and information equipment and dataflow into, from, and internal to the squadron.

A2.6.3.5. Implements hardware, commercial off the shelf software and firmware, and performs system administration for unit computer systems.

A2.6.3.6. Ensures operational viability of software for archiving and processing environmental data.

A2.6.3.7. Develops/maintains software for processing environmental data and generating operational products and maintains operational and developmental databases.

A2.6.3.8. Maintains configuration management of the software and hardware baseline.

A2.6.3.9. Develops, implements, and maintains squadron Information Assurance (IA) policies and procedures in compliance with DoD, USAF, Federal Information Security Management Act (FISMA), and National Institute of Standards and Technology (NIST) directives and guidance.

A2.6.3.10. Maintains the information technology systems certification and accreditation of two enclaves and all connected systems in accordance with the DoD IA Certification and Accreditation Process.

#### **A2.6.4. OPERATIONS FLIGHT (OSC: DOO)**

A2.6.4.1. Provides statistical weather and climatological studies for engineering design, weapons systems employment, and operational planning purposes to DoD components and IC using 14 WS maintained observation and modeled databases as well as leveraging US Navy, the Department of Commerce's National Climatic Data Center and other agencies' data sources.

A2.6.4.2. Provides Long Range outlooks out to 180 days in a narrative format to support planning operations.

A2.6.4.3. Manages acquisition, ingests, and archive of worldwide observational and modeled data sets to support event analysis and climatological data requests.

A2.6.4.4. Develops and applies quality control algorithms to the climatological database to ensure the data is authoritative.

A2.6.4.5. Manages station information and responsible for tracking changes to station locations and reporting practices worldwide.

A2.6.4.6. Provides scientific, modeling, and technique development support for the production of quality, climatologically based worldwide weather intelligence and mission-tailored decision aids.

#### **A2.7. 16 WS FUNCTIONAL STATEMENTS**

##### **A2.7.1. COMMANDER (OSC: CC)**

A2.7.1.1. Provides leadership and exercises command jurisdiction over all activities of the 16 WS.

A2.7.1.2. Directs the development and exploitation of technology serving as the DoD's authoritative source of numerical space and terrestrial weather prediction, product tailoring and application, and visualization.

A2.7.1.3. Advises and assists the 2 WXG Commander in developing group policy, procedures, and resource execution plans.

A2.7.1.4. Assesses organizational capabilities and assists the 2 WXG Commander in establishing organizational goals.

A2.7.1.5. Provides scientific services to support current and emerging warfighter, intelligence war fighting, and other mission partner requirements.

A2.7.1.6. Advises the 2 WXG Commander on the state of morale, health, welfare, training and support for personnel assigned.

A2.7.1.7. Provides technical oversight for internal and external research and development activities.

A2.7.1.8. Provides technical interface with other meteorological modeling centers, to include National Centers for Environmental Prediction and Fleet Numerical Meteorology and Oceanographic Center.

A2.7.1.9. Evaluates technical performance, identifies trends, and provides corrective measures to address performance deficiencies and continuously improve processes and procedures.

#### **A2.7.2. ENVIRONMENTAL CHARACTERIZATION FLIGHT (OSC: WXE)**

A2.7.2.1. Leads and provides technical guidance for development and integration of new science and software supporting the AFWA global cloud analysis and forecasting capability.

A2.7.2.2. Leads and provides technical guidance for the development and integration of new science and software supporting the AFWA land surface characterization capability.

A2.7.2.3. Leads and provides technical guidance for the development and integration of new science and software supporting the AFWA aerosol/dust analysis and prediction capability.

A2.7.2.4. Leads and provides technical guidance for the development and integration of new science and software supporting the AFWA Point Analysis Intelligence System.

#### **A2.7.3. NUMERICAL MODELS FLIGHT (OSC: WXN)**

A2.7.3.1. Leads and provides technical guidance for development and integration of new science and software supporting the mesoscale meteorology numerical weather prediction capabilities.

A2.7.3.2. Leads and provides technical guidance for development and integration of new science and software supporting the global and mesoscale weather ensemble prediction suite.

A2.7.3.3. Provides technical guidance and leadership for development and integration of new science and software supporting the space weather prediction system.

A2.7.3.4. Serves as AFWA lead for computation and evaluation of metrics for skill of AFWA and partner numerical weather prediction model products.

#### **A2.7.4. PRODUCT APPLICATIONS FLIGHT (OSC: WXP)**

A2.7.4.1. Leads and provides technical guidance to develop and advance AFWA's ability to exploit meteorological satellite data for forecaster applications.

A2.7.4.2. Leads development and integration of AFWA weather product visualizations and data services within the AFWA web services capability.

A2.7.4.3. Leads and provides technical guidance to develop and advance methods to diagnose and predict weather conditions hazardous to aviation.

#### **A2.7.5. DETACHMENT 3, Wright Patterson Air Force Base (WP AFB), OH**

A2.7.5.1. Supports four acquisition wings of the Aeronautical Systems Center and the five research directorates of the Air Force Research Laboratory at WP AFB.

A2.7.5.2. Supports modeling and simulation programs at WP AFB as well as assist the Air and Space Natural Environment (ASNE) Modeling and Simulation Executive Agent (MSEA) by supporting joint exercises and war games throughout the DoD.

### **A2.8. 2D COMBAT WEATHER SYSTEMS SQUADRON (2 CWSS) FUNCTIONAL STATEMENTS**

#### **A2.8.1. COMMANDER (OSC: CC)**

A2.8.1.1. Provides leadership and exercise command authority over all activities of 2 CWSS.

A2.8.1.2. Advises the 2 WXG Commander on the state of morale, health, welfare, training and support for personnel assigned.

A2.8.1.3. Advises and assists the 2 WXG Commander in developing group policy, procedures, and resource execution plans.

A2.8.1.4. Evaluates technical performance, identifies trends, and provides corrective measures to address performance deficiencies and continuously improve weather processes and procedures.

A2.8.1.5. Assesses organizational capabilities and assists the 2 WXG Commander in establishing organizational goals.

#### **A2.8.2. OPERATIONS (OSC: DO)**

A2.8.2.1. Provides operational oversight and guidance to DOX, DOT, OL-A, and OL-H.

A2.8.2.2. Assists CC in allocation of resources to meet mission requirements.

A2.8.2.3. Assists the 2 CWSS Commander in performing command duties and responsibilities; and within the limitations established by the commander, acts in his/her stead in all matters relating to command.

#### **A2.8.3. ORDERLY ROOM (OSC: CCQ)**

A2.8.3.1. Works directly with commander, supervisors, and unit members to ensure discipline is equitably maintained, and morale, welfare, and health needs of the enlisted force are met.

A2.8.3.2. Manages the military personnel program, officer and enlisted promotions, officer and enlisted assignment actions, Professional Military Education actions, separation programs, military performance reports and evaluation systems, formal training, and military and civilian awards and decorations.

A2.8.3.3. Administers the Freedom of Information Act and Privacy Act Programs for the squadron in accordance with governing directives.

**A2.8.4. TRAINING FLIGHT (OSC: DOT)**

A2.8.4.1. Conducts deployed weather systems training.

A2.8.4.2. Conducts Weather Systems Support Cadre (WSSC) certification.

A2.8.4.3. Develops, in coordination with AFWA/A3N, Tactics, Techniques, and Procedures (TTPs) for tactical weather and communications systems.

A2.8.4.4. Assists in developing training on AF weather garrison/tactical systems.

A2.8.4.5. Aids transition of weather, Command and Control (C2) technologies, and concepts to base/post-level units.

A2.8.4.6. Maintains situational awareness on WSSC operations.

A2.8.4.7. Coordinates systems upgrade/logistic support with vendors/contractors.

A2.8.4.8. Ops checks, ships, and tracks Tactical Weather System (TWS) initial/repair items to deployed WSSC.

A2.8.4.9. Provides technical TWS expertise/reach-back.

A2.8.4.10. Maintains readiness cell; orchestrates all aspects of unit deployments.

A2.8.4.11. Lead training representative on Army TWS.

**A2.8.5. PLANS FLIGHT (OSC: DOX)**

A2.8.5.1. Directs, in coordination with AFWA/A5C, operational testing of formal weather system acquisition to include garrison and tactical weather and communications capabilities.

A2.8.5.2. Identifies, evaluates and exploits new garrison/tactical level weather/communication systems concepts and solutions.

A2.8.5.3. Provides demonstrations and participates in limited inter-agency experimentation.

**A2.8.6. OPERATING LOCATION A, CAMP BLANDING, FL**

A2.8.6.1. Prepares the Total Force concept by assisting the Air National Guard in training, reserve and select active duty weather forces using current AF weather equipment and TTPs.

A2.8.6.2. Provides an active duty liaison to the Air National Guard Weather Readiness Training Center.

**A2.8.7. OPERATING LOCATION H, FT HUACHUCA, AZ**

A2.8.7.1. Conducts 15-day Battlefield Weather Course (BWC) IAW AR 115-10 and AFI 15-157.

A2.8.7.2. Fulfills Army requirement to teach Airmen foundational Army structure and senior capstone planning concepts for Army weather support.