

**Army Regulation 115–10
AFI 15–157 (IP)**

**Climatic, Hydrological, and Topographic
Services**

Weather Support and Services for the U.S. Army

**Headquarters
Departments of the Army,
Air Force
Washington, DC
10 September 2015**

UNCLASSIFIED

SUMMARY of CHANGE

AR 115-10/AFI 15-157 (IP)
Weather Support and Services for the U.S. Army

This major revision, dated 10 September 2015--

- o Changes the title of the regulation from Weather Support for the U.S. Army to Weather Support and Services for the U.S. Army (cover).
- o Updates the purpose of the regulation (para 1-1).
- o Clarifies responsibilities pertinent to weather sensing on Army airfields, heliports, helipads, and ranges (para 1-5).
- o Consolidates cooperative efforts in requirements, emerging requirements, resources, installation weather services, weather sensing, deployed weather services, personnel and command relationship, and accident and incident boards (chap 2).
- o Adds responsibilities associated with weather facilities (para 2-1).
- o Clarifies Army responsibilities regarding system of systems architecture development, development of communication technical and data standards, information assurance and accreditation, and Army communication responsibilities (paras 2-1 and 2-3).
- o Redefines/modifies responsibilities regarding development of models, weather decision aids, and exploitation tools (paras 2-1, 2-2, and 3-2).
- o Identifies policy removed from this regulation into AR 5-25 (table C-1).

Headquarters
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Air Force
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*AFI 15–157 (IP)

Effective 10 October 2015

Climatic, Hydrological, and Topographic Services

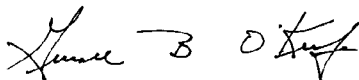
Weather Support and Services for the U.S. Army

By Order of the Secretary of the Army and Air Force:

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History. This publication is a major revision.

Summary. This regulation sets forth policies and establishes U.S. Army and U.S. Air Force responsibilities for weather services in support of the U.S. Army.

Applicability. This regulation applies to the Active Army, the Army National Guard/Army National Guard of the United States, and the U.S. Army Reserve, unless otherwise stated. This regulation also applies to the Active Air Force, the Air National Guard, and U.S. Air Force Reserve.

Proponent and exception authority. The proponent of this regulation is the Deputy Chief of Staff, G–2, and the Air Force Deputy Chief of Staff for Operations, Plans and Requirements (Headquarters (HQ), U.S. Air Force (USAF)/A3). The proponent has the authority to approve exceptions or waivers to this regulation that are consistent with controlling law and regulations. The proponent may delegate this approval authority, in writing, to a division chief within the proponent agency or its direct reporting unit or

field operating agency, in the grade of colonel or the civilian equivalent. Activities may request a waiver to this regulation by providing justification that includes a full analysis of the expected benefits and must include formal review by the activity's senior legal officer. All waiver requests will be endorsed by the commander or senior leader of the requesting activity and forwarded through their higher headquarters to the policy proponent. Refer to AR 25–30 for specific guidance.

Army internal control process. This regulation contains internal control provisions in accordance with AR 11–2 and identifies key internal controls that must be evaluated (see appendix D).

Supplementation. Supplementation of this regulation and establishment of command and local forms are prohibited without prior approval from the Deputy Chief of Staff, G–2 (DAMI–OPO), 1000 Army Pentagon, Washington, DC 20310–1040 and HQ USAF/A3W–P, 1490 Air Force Pentagon, Washington, DC 20330–1490.

Suggested improvements. Users are invited to send comments and suggested improvements on DA Form 2028 (Recommended Changes to Publications and Blank Forms) directly to Headquarters, Department of the Army (DAMI–OPO), 1000 Army Pentagon, Washington, DC 20310–1040. Air Force users are invited to send comments on AF Form 847 (Recommendation for Change of Publication) to HQ USAF/A3W–P, 1490 Air Force Pentagon, Washington, DC 20330–1490.

Distribution. Army: This regulation is available in electronic media only and is intended for command levels B, C, D, and/or E for the Active Army, the Army National Guard/Army National Guard of the United States, and the U.S. Army Reserve. Air Force: Compliance with this publication is mandatory.

*This regulation supersedes AR 115–10/AFI 15–157 (IP), dated 6 January 2010.

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Glossary

Chapter 1 Introduction

1–1. Purpose

This regulation provides policy and states responsibilities for Air Force (AF) elements engaged in meteorological support of the Army's mission and provides guidance to the Army for supporting the AF in that role. Inter-Service and intra-Service cooperation and synchronization are imperative to the establishment and maintenance of effective and efficient weather support and services in support of the Army's mission. The policy contained in this regulation guides this mutually supporting relationship. This regulation describes responsibilities of the AF to provide weather support and services to enable the Army's mission, and the responsibilities of the Army to support the AF as they develop and execute weather operations and provide weather services. This regulation assigns the Army and AF general responsibilities in the areas of operations, communications, training, administration, budget, and logistics. It includes Army and AF responsibilities for the execution of installation, garrison, and deployed (combat or field) weather operations. This publication does not address special operations forces (SOF)-peculiar weather-related requirements and/or relationships.

1–2. References

See appendix A.

1–3. Explanation of abbreviations and terms

See the glossary.

1–4. Responsibilities

a. Coordination. All Army and AF elements responsible for establishing Army or AF meteorological and space weather requirements (see paras 2–1 and 3–1) will ensure that capabilities and Joint Capability Integration and Development Systems (JCIDS) requirements documents are coordinated across all military departments in accordance with Department of Defense (DOD), Joint, and Service regulations to promote interoperability and avoid duplication of weather capabilities, support, and services. The AF and Army weather functional leads will work closely together during the development phase of requirement documents to ensure that weather capabilities solutions meet interoperability objectives outlined in Chairman Joint Chiefs of Staff Instructions.

b. Specifics. Army and AF responsibilities are listed in chapters 2 and 3 respectively. Army-specific responsibilities are documented in AR 5–25 and AF-specific responsibilities in AFI 15–128.

c. Collaboration.

(1) The AF and the Army will collaborate in development of weather and weather system concepts to set weather policy and resolve weather issues across the spectrum of doctrine, organization, training, materiel, leadership and education, personnel, and facilities (DOTMLPF).

(2) When advantageous to DOD interests, the Army and AF will collaborate with the other Services and Federal agencies across a broad spectrum of disciplines and capabilities (including but not limited to geospatial, terrain, operations, military capabilities, weapon systems, sensors, tactics, techniques, and procedures (TTPs), and so forth). The intent of this collaboration is to provide the best weather capability for DOD in context of strategic direction and guidance of the Department.

1–5. Policy

a. Requirements. The Army establishes, validates, prioritizes, and communicates weather requirements for Army installation, garrison, training, and deployed (combat or field) operations to the AF. To enable the AF to fulfill these requirements, the AF establishes, validates, prioritizes, and communicates specialized Army training, equipment, facilities, communications, and other requirements to the Army. The Army will provide the AF with training, equipment, facilities, communications, and other services in accordance with this regulation and AR 5–25.

b. Emerging requirements. For dynamically-generated, directed requirements, such as Quick Reaction Capabilities, in support of contingency operations, the AF will provide weather support to the extent possible. When these requirements are Army-validated and approved, the AF will program for the resources as outlined in para 1–5c of this regulation.

c. Resources. The Army budgets, plans, and programs for resources to meet the Army's responsibilities as described in chapter 2 of this regulation. The AF budgets, plans, and programs to meet the AF's responsibilities as described in chapter 3. When the AF is unable to meet a new Army weather support requirement, the Headquarters (HQ) U.S. Air Force (USAF) Deputy Chief of Staff, Operations, Plans, and Requirements (A3) will request the Army prioritize the affected missions so the AF can support using available resources (to include arranging for/leveraging other Services' capabilities as the AF deems appropriate) until the AF receives additional resources through the program objective memorandum process.

d. Installation weather services. The AF provides weather services to support activities on Army installations such as: select tenant units, the garrison commander and staff, airfield, range operations, emergency management and/or response, mobilization and training.

e. Weather sensing at Army installation airfields, heliports, and helipads.

(1) The AF provides airfield weather services to include surface sensing capabilities to meet weather observing requirements at only those operational Army air traffic controlled airfields, heliports and helipads with approved FAA Class D airspace, unless deemed operationally necessary by the U.S. Army Aeronautical Services Agency (USAASA) and approved by HQ USAF A3. The AF task-organizes to provide personnel to augment (supplement and backup) automated sensing capabilities at these locations as necessary. The AF provides direct support to garrison commanders in support of emergency management and response, airfield, range, deployment, and mobilization operations.

(2) Any Army installation not meeting the criteria listed in paragraph 1-5e(1) of this regulation may provide their own weather sensing equipment. It is strongly recommended that weather observations obtained from this equipment be sent to the AF to improve weather support at that location. It is strongly recommended that the Army participate in the AF's weather sensing programs of record and procure systems leveraging existing or planned AF contracts for weather sensing capabilities. The AF will provide the Army with recommendations on the purchase of standard weather sensors and sensing equipment to assist the Army in meeting its applicable responsibilities for deployed, installation, airfield, heliport, helipad, and range weather sensing. The AF also ensures that AF contracts for sensor and sensing equipment purchases include an option for the Army to purchase these systems, as applicable. The AF will assist the Army with required system certifications until an Army certification program is in place.

(3) If Army-owned sensors are installed at locations not meeting the criteria listed in paragraph 1-5e(1) of this regulation are not connected to the Army network for dissemination of the observation, AF weather personnel may call the location in question to obtain the current observation. Army personnel with access to the observation will provide it to the AF upon request.

f. Deployed weather services. The AF provides, or arranges for, weather support and services to Army mission commanders and staff at tactical operations centers, deployed airfield(s), or other deployed locations.

g. Personnel and command relationships.

(1) AF personnel conducting weather operations and providing weather services in support of Army organizations will not be assigned duties (for example, guard duty, charge of quarters, mess hall duty) inconsistent with their primary mission of conducting weather operations and providing weather services.

(2) The AF retains administrative control (for example, command and Uniformed Code of Military Justice authority, and personnel actions), operational, and tactical control of AF personnel and equipment unless otherwise directed by the appropriate authority consistent with Joint publications.

(3) The AF senior weather representative at each Army echelon is traditionally referred to as the staff weather officer (SWO). The SWO is designated a special staff officer and will coordinate activities under the staff supervision of the Assistant Chief of Staff, G-2(S-2), the coordinating staff officer.

(4) SWOs will comply with Army regulations and directives that do not conflict with Air Force instructions and directives as deemed appropriate by the AF command authority.

h. Accident and incident boards. When weather or weather service is expected to be a contributing factor to an Army accident or incident, upon request, the AF will provide a qualified weather officer subject matter expert (SME) to the Army Safety Investigation Board.

Chapter 2 Army Responsibilities

2-1. General

General responsibilities of Army Headquarters, Army commands (ACOMs), Army service component commands (ASCCs), and direct reporting units (DRUs) are listed in this regulation.

a. Assistant Secretary of the Army (Acquisition, Logistics, and Technology) (ASA (ALT)), through Program Executive Office-Intelligence, Electronic Warfare and Sensors (PEO-IEWS), will coordinate development of tactical weather capabilities for the Army with DCS, G-2 and collaborate with the AF program offices to ensure Army-developed meteorological capabilities are compatible and interoperable with AF weather capabilities. ASA (ALT) fund U.S. Army Corps of Engineers, Army Test and Evaluation Command, U.S. Army Medical Command, Army Materiel Command, and PEO IEWS acquisition-related efforts that support meeting the Army's weather requirements to include the following:

(1) Simulations and visualization of environmental effects on Army personnel, systems and operations.

(2) Designing systems to operate in the Army operational environment and to meet Army standard criteria for tactical mobility, target signature, and communications capability and accreditation.

(3) System of systems architecture development, including statutory DOD Architecture Framework products meeting JCIDS program of record requirements.

(4) Meteorological R&D activities, the development of components and subsystems and integration of these components into prototypes for use in field experiments, and activities that evaluate prototype systems, and transition resultant technology into a major system.

(5) When R&D for Army capability gaps also meets AF needs (for example, meteorological models, tools, and applications), work with appropriate AF acquisition authorities and lead commands to transition research for the AF to operationalize in support of Army operations.

(6) With AF assistance, developing and providing materiel solutions to meet the Army's responsibilities, ensuring a robust logistics and maintenance capability for those solutions, and developing and providing Army-procured weather system installations and required certifications.

b. Army Chief Information Officer/G-6 (CIO/G-6) will—

(1) Lead Army-AF development of technical and data standards as defined in the current annual Standard View One (StdV-1) for the Common Operating Environment to effectively integrate weather operations into the Army communications architecture, such as Army communications network email accounts for the SWOs.

(2) Assist the AF with processing and approving information assurance and accreditation, such as but not limited to, certificates of net worthiness, interim authorization to test, interim authority to connect, interim approval to operate, and approval to operate fixed base and deployed weather equipment and systems on Army networks (to include firewall exemptions) in accordance with AR 25-1, AR 25-2, and DOD Information Assurance and Reciprocity Policy.

(3) Account for AF weather capabilities and requirements in support of the Army when developing installation and deployed communication capacity and information technology infrastructure (see para 2-3).

(4) Guide and facilitate AF efforts to meet Army communications security requirements.

c. Director, Army National Guard will—

(1) Coordinate with DCS, G-3/5/7, and DCS, G-2 to ensure AF weather personnel are provided with facilities that meet mission essential functionality and Army standards and in accordance with National Guard Bureau (NGB) Pamphlet 210-20.

(2) Provide oversight for the fielding of fixed meteorological equipment at ARNG-managed airfields and heliports. Ensure procedures are in place to staff all weather equipment related documentation in coordination with DCS, G-3/5/7, and DCS, G-2.

d. Director of Army Safety (U.S. Army Combat Readiness Center/Safety Center), per the Director of the Army Staff will, when appropriate meteorological expertise cannot be accessed locally (for example, AF weather element and/or SWO), coordinate with DCS, G-2 (DAMI-OPO) for meteorological expertise on accident and/or incident boards when weather or weather support or service is or is suspected to be a contributing factor.

e. DCS, G-2 will—

(1) Coordinate AF weather policy issues with the AF Deputy Chief of Staff for Operations, Plans and Requirements (HQ USAF/A3).

(2) Coordinate with the AF on Army-AF and Joint Service weather functions, operational concepts and doctrine.

(3) Coordinate with DCS, G-3/5/7 on Army weather program and resource issues, Army National Guard and Army Reserve weather issues, and Army weather support requirements.

(4) Coordinate AF weather support and services shortfalls and other perceived weather deficiencies received from U.S. Army Training and Doctrine Command (TRADOC) with DCS, G-3/5/7.

(5) Coordinate all weather capabilities for Army personnel with Army Materiel Command to ensure integration, compatibility, and interoperability with current AF weather capabilities.

(6) Provide weather subject matter expertise in support of DCS, G-3/5/7 advocacy of Army-provided facilities and equipment to the Air Force.

(7) Coordinate force design updates (FDUs) and basis of issue plans for all operational weather elements in coordination with TRADOC and U.S. Army Intelligence Center of Excellence (USAICOE) prior to DCS, G-3/5/7 approval.

(8) Assist the U.S. Army Combat Readiness Center/Safety Center with arranging for meteorological expertise on accident/incident boards.

(9) Coordinate with DCS, G-3/5/7 and the Office of The Assistant Chief of Staff for Installation Management to ensure weather personnel are provided with facilities that meet mission essential functionality and Army standards.

(10) Serve as the weather facilities proponent.

f. DCS, G-3/5/7 will—

(1) Serve as the Army's approval authority for TRADOC-staffed and validated Army weather requirements.

(2) Submit approved Army weather requirements and priorities to the HQ USAF A3.

(3) Coordinate with the DCS, G-2 on Army weather program and resource issues, Army National Guard and Army Reserve weather issues, and Army weather support requirements.

(4) Advocate for Army facilities and equipment required by the AF to provide weather support to the Army.

g. Commanding General (CG), Installation Management Command, per the Assistant Chief of Staff for Installation Management, will—

(1) Coordinate with Office of The Assistant Chief of Staff, Installation Management, DCS, G-3/5/7, and DCS, G-2 to ensure AF weather personnel are provided with facilities that meet mission essential functionality and Army standards.

(2) Provide oversight for the fielding of fixed meteorological equipment at Installation Management Command (IMCOM) garrisons. Ensure procedures are in place to staff all weather equipment related documentation through HQ IMCOM.

h. Commanders, ACOMs, ASCCs, DRUs, Army National Guard commanders, and responsible Active and Reserve Component (RC) commanders at all levels will—

(1) Submit requests for weather services information and needs in accordance with AR 5-25.

(2) Program for and provide support and for weather operations, communications, training, administration, budget, and logistics to supporting AF personnel as outlined in this regulation and in AR 5-25.

(3) Ensure standard Army equipment is issued to the AF, including that listed in the modified table of organization and equipment (MTOE), table of distribution and allowances (TDA), and common table of allowances (CTA).

(4) Guide and facilitate AF efforts to meet Army communications security requirements.

i. Commanding General, U.S. Army Forces Command (FORSCOM) will—

(1) Manage combat training centers for AF weather personnel in order for them to support their aligned Army commanders and exercise combat skills.

(2) Communicate contingency weather support requirements through DCS, G-3/5/7 to Joint Staff to support real world deployments of operational forces.

(3) Provide recommended (MTOE) items for Army Contingency Force mission sets (RAF, GRF, and so forth) to DCS, G-3/5/7 for validation.

j. CG, TRADOC will—

(1) Lead Army development of Army-AF inter-Service weather operations and services concepts and doctrine required to conduct Army operations in coordination with AF SWOs and Army SMEs at TRADOC units.

(2) Document standard Army equipment for use by AF weather personnel in the appropriate force design (see AR 71-32).

(3) Provide FDUs and basis of issue plans for all operational weather elements in coordination with USAICOE and DCS, G-2 to the DCS, G-3/5/7 for approval (see AR 71-32).

(4) Develop and/or provide operational architectures for transmission of meteorological data and information on Army systems.

(5) Develop solutions for deficiencies within the Army's area of responsibility specified in this chapter, in coordination with AF SWOs and SMEs at TRADOC units.

(6) Communicate to DCS, G-3/5/7 and DCS, G-2 perceived shortfalls in the AF's ability to meet Army requirements for weather support and services and other perceived weather deficiencies within the AF's area of responsibility.

(7) Validate and forward Army weather requirements to DCS, G-3/5/7 for approval.

(8) Process deployed Army weather requirements, through the JCIDS process, as identified by Army commands or by appropriate Joint and/or Army concept documents.

k. CG, U.S. Army Materiel Command will—

(1) Through RDECOM, will coordinate weather R&D programs with comparable AF program offices to ensure Army meteorological capabilities are compatible with AF weather R&D programs.

(2) Provide logistics and sustainment of Army-owned weather capabilities.

2-2. Operations responsibilities

a. Installation support. The Army identifies, documents, prioritizes, validates, and approves Army airfield, heliport, helipad, and installation weather requirements.

b. Weather sensing in the deployed environment. Outside of air and space environmental data and information collected by the AF, the Army provides for the collection of deployed weather data when the Army deems necessary, both full observations and limited parameters and/or elements (for example, ceiling and visibility only, temperature only, soil moisture, soil temperature, and snow depth) from traditional and non-traditional sources (for example, manned and unmanned aerial systems, indigenous sources, and so forth). During intelligence and weather collection planning, the Army will request SWO expertise to determine the best locations to emplace Army-owned weather sensing equipment. The Army will share weather information from Army-owned weather sensing equipment to the AF whenever possible. The Army will procure AF recommended operational weather sensing equipment and sensors whenever possible and will provide operational weather sensing equipment requirements to the AF.

c. Deployed and/or installation support plans development. The Army includes required AF weather operations and services needed for Army mobilization, contingency, and operations in appropriate planning documents.

(1) During mobilization and deployment planning, the Army provides to the AF the Army's requirements for weather support and services to enable deployment, reserve component mobilization, and Army residual forces, installations, garrisons, airfields, heliports, and helipads.

(2) During contingency and operations plans development, the Army provides to the AF the Army's requirements for weather services to support operations in accordance with Joint Operational Planning and Execution System (JOPES) or its successor's procedures. In coordination with the AF, the Army includes and synchronizes Army-provided equipment used to support AF weather forces in the Time-Phased Force Deployment Database (TPFDD).

d. Artillery meteorology. The Army will integrate AF-approved weather model data and modeling software into Army Field Artillery Systems" (for example, the Army's Profiler Program of Record).

e. Range support. The Army provides weather sensing at Army ranges, as required, and will provide these observations and limited parameters/elements to the AF whenever possible.

f. Research, development, test and evaluation. The Army will provide weather support and services to Army research, development, test, and evaluation (RDT&E). The Army will conduct R&D on fine scale/microscale weather models and tools to support Army laboratories conducting RDT&E, and RDT&E test ranges and centers. The Army will conduct research and development verification and validation for Army microscale models. The Army will provide the AF with microscale research and development prototype models to be considered for operational use. The Army will coordinate with the AF to ensure prototype fine scale and/or microscale models are compatible with the Air Force's operational numerical weather model capability. The AF will verify and validate Army-developed weather model capabilities selected for operational use, which reside at Air Force weather squadrons supporting Army operations, in accordance with paragraph 3-2d of this regulation. The Army will verify and validate the accuracy of meteorological inputs and approve for implementation to meet Army Field Artillery System requirements.

g. Weather decision and exploitation tools. The Army will determine critical and operationally significant threshold values for weather effects on Army systems, capabilities, weapon systems, component systems, and land component threat systems. The Army will provide this information and Army-developed, Soldier-level decision aids and exploitation tools to the AF to be considered for operational use. The Army will develop prototype decision aids and exploitation tools in coordination with the AF to be integrated into a common set of exploitation tools and decision aids for operational use by the AF and the Army.

h. Vehicle licensing and dispatch. The Army delegates vehicle dispatch and employment authority to the supporting AF SWO comparable to that provided to the supported Army commander's senior and special staff. Per AR 600-55, the Army recognizes validated AF-issued operator licenses that meet reciprocity requirements for dispatch and operation of Army vehicles (also see para 3-4c of this regulation).

i. Staff supervision. The SWO is a member of the supported commander's special staff. The Army will provide staff guidance to assist the SWO in executing their duties. The supported Army commander or his designee will provide written performance input and/or feedback to the commander of the supporting SWO upon request.

j. Chemical, biological, radiological, nuclear, high-yield explosive. The Army develops and provides chemical, biological, radiological, nuclear, high-yield explosive (CBRNE) models and decision aids and makes derived weather information from the models and decision aids available to the AF whenever possible.

k. Hydrological products. The Army, with inputs from SWOs and/or weather SMEs as required, develops and provides hydrological studies, forecasts and decision aids for military training, operations and emergency purposes.

l. Weather services hardware and/or software. The Army integrates AF-provided weather services capabilities into an Army command and control system (for example, the Army's Intelligence System) and will collaborate and/or work with the AF to ensure weather services capabilities interface with, are interoperable with, and are compatible with Army provided hardware.

2-3. Communications responsibilities

a. The Army manages and operates Campus Area Networks (CAN) for Army and Air Force personnel on Army posts, camps, and stations and provides required information technology (IT) services at both common-user (baseline) and mission unique (above-baseline) basis. These categories of service provisioning are broken down in the Army's Command, Control, Communications, Computers and Information Management (C4IM) Services List available for review at <https://www.itmetrics.hua.army.mil/>.

b. The Army programs for, and provides, installs, tests and evaluates, operates, and maintains secure and non-secure communications to move data (for example, weather)—

(1) Within the Army operational network (for example, around the tactical operations area), from the theater downlink site, to the theater uplink site, and to and/or from the Joint forces theater entry point. Respective Army Network Enterprise Centers (NECs) provide baseline IT services on both secure and non-secure communications networks to the AF weather organizations that provide support to the Army without reimbursement from the AF in accordance with AR 5-25.

(2) Within the Army institutional network (for example, around the installation) to include ranges and airfields. Army NECs provide above-baseline requirements to tenants based on service level agreements (SLAs) contracted between the tenant and the respective NEC.

(3) To ensure weather information is provided in a timely manner to Army commanders for the purpose of resource

protection and aviation safety, firewall exemptions, SWO e-mail and communications connectivity should be considered a high priority.

2-4. Training responsibilities

a. Army personnel. The Army trains Army personnel on the following:

(1) Weather effects on Army operations and warfighting functions, weather information exploitation, and integration of weather information into decisionmaking processes, mission planning, execution, and sustainment.

(2) Requesting or obtaining weather support and services from AF or Army sources. For AF sources, the Army will seek advice and collaborate with the AF on the proper process to request and obtain weather services for inclusion into Army training content.

(3) Weather operations and equipment that are an Army responsibility.

(4) The roles, responsibilities, and operational concepts of AF weather operations through use of AF-developed or provided lesson plans and materials.

b. Army funds. The Army funds or provides training for AF personnel on—

(1) Army doctrine, organization, planning and operations concepts, requirements and processes. The Army does not fund travel and per diem for formal AF Air Education and Training Command courses.

(2) Operations and user-level preventive maintenance checks of MTOE, TDA and CTA equipment.

(3) Weather effects on Army operations and warfighting functions, weather information exploitation, and integration of weather information into decisionmaking processes, mission planning, execution, and reconstitution sustainment operations.

(4) Common Soldier and deployed field skills that are not provided by standard AF formal training programs or that supplement basic skills obtained in AF training courses.

(5) Specialized tactical skills, as required, to support Army operations and training (for example, air assault; airborne; arctic survival; jumpmaster; survival, evasion, resistance, and escape).

(6) Safety and security issues necessary to operate in the Army environment.

c. Army standards. For proficiency, qualification, and certification training, the Army provides instructors, support personnel, range access, range operations, and all materials for AF personnel.

d. Army coordination. The Army coordinates with the AF to determine the level and types of training required.

2-5. Administration, budget, and logistics responsibilities

The Army programs for and provides (on a non-reimbursable basis from the AF)—

a. Capabilities, personnel, and equipment identified as an Army responsibility in this regulation.

b. Assistance to AF weather organizations in Army programming and budget submissions. The Army provides funding in the supported Army units' budget for execution by the AF SWO to support the AF's installation, garrison, and deployed weather operations and training.

c. Budget, supply, clerical, and administrative services as well as logistical and intelligence expertise and support commensurate with, and comparable to, the supported Army unit.

d. Office space and furniture, office equipment, vehicle and equipment storage facilities, and real property to house AF personnel conducting administration, weather operations, maintenance, and training. The Army provides operation and maintenance of real property and other Army-owned facilities and equipment provided for use by AF personnel.

e. Special Security Office (SSO) support, required sensitive compartmented information (SCI) access for eligible AF personnel, and SCI access management (as defined in DODM 5105.21, Volume 3). The Army also provides dedicated storage of classified materials and other intelligence support (for example, threat briefings).

f. Communications security (COMSEC) account manager (CAM) services, COMSEC equipment and material, and dedicated storage for COMSEC equipment and material.

g. Armorer services within the capabilities of the Army armorer and storage of AF and Army-provided weapons and ammunition. Army weapons and ammunition issued to AF personnel will meet Army standards.

h. Standard Army ammunition for proficiency training and operations.

i. Preventive, organizational, and/or unit-level, scheduled, and depot maintenance, fuels, lubricants, and parts for Army and AF provided vehicles, generators, radios, and trailers (the AF will reimburse the Army for parts required on AF-provided vehicles, generators, radios, and trailers.) These services will also be provided to AF RC weather units not collocated with their supported Army unit. The AF RC unit coordinates with the nearest Army maintenance support activity for their preventive, organization, scheduled, and depot maintenance on their assigned Army equipment.

j. Procurement, preventive, organizational and/or unit-level, scheduled, and depot maintenance, operation, and sustainment of Army-provided equipment including that listed in the MTOE, TDA and CTA and other equipment required to operate in the Army-deployed environment.

k. Non-deployed vehicles on a dispatch basis to conduct administrative tasks, installation support, and operational support functions comparable to the supported Army unit or headquarters. The Army will delegate vehicle dispatch and

employment authority to the supporting AF SWO comparable to that provided to the supported Army commander's senior and special staff.

l. Installation services (comparable to those provided to Army organizations, personnel, and families) to AF organizations, personnel, and families to include, but not limited to, those shown in appendix B of this regulation.

m. Installation and deployed IT equipment, connectivity, and services.

n. Non-standard services and equipment required by the Army but not available from the AF comparable with that furnished to the supported Army unit.

o. The CBRNE equipment required or issued by the Army, but not provided by the AF.

p. Individual equipment required or issued by the Army, but not provided by the AF.

q. Building construction maintenance and utilities including, but not limited to, heating and/or air conditioning, electricity, gas, water, sewage, garbage collection, housekeeping supplies, and fee-for-service utilities (for example, fixed and mobile telephone, pagers, cable).

r. Allied support (for example, structures, foundations, environmental control (for example, asbestos abatement/removal), communication cables (for example, copper, fiber, power, and so forth) to prepare sites for installation and fielding of AF-provided weather equipment. Technical details will be coordinated with installation agencies responsible for allied support during the site survey. The Project Support Agreement (PSA) will outline all allied support technical details.

s. Training quotas for AF personnel requiring specialized skills training in accordance with paragraph 2-4b of this regulation.

t. Functional area SMEs to assist AF development of instructional materials for use in AF courses and continuation training programs.

u. Travel and per diem of AF personnel, conducting weather operations and providing weather services in support of the Army, for training and non-contingency operations per the Joint Travel Regulation (JTR) and applicable AFIs unless provided in-kind. The Army funds for non-located (supplemental) AF personnel only after arrival at the supported Army unit's location (see para 3-5b of this regulation).

v. Travel and per diem for AF-provided weather subject matter expertise and/or SMEs supporting Army safety investigation boards, for AF weather SMEs supporting airfield inspection and certification, and for AF weather SMEs when required to certify Army-procured weather sensing systems.

w. Shipment of weather equipment assigned to collocated AF units and/or elements for Army training and non-contingency operations. The Army funds shipment of non-located (supplemental) equipment only after arrival at the supported unit's location.

x. See AR 5-25 for additional guidance on Army funding responsibilities.

Chapter 3 Air Force Responsibilities

3-1. General

Headquarters USAF, through A3, will—

a. Manage AF weather resources, develop plans and concepts, and establish policy to address Army-validated requirements that are the responsibility of the AF.

b. Coordinate with DCS, G-2 on weather policy and requirements issues.

c. Coordinate with DCS, G-3/5/7, DCS, G-2 IMCOM, and ARNG through the Air National Guard on Army installation and aviation/airfield support policy, requirements, resources, programs, and priorities.

d. Coordinate with Secretary of the Air Force, Information Dominance and Chief Information Officer (SAF/CIO A6) and CIO/G-6 on communications and IT issues.

3-2. Operations responsibilities

a. The AF provides—

(1) Weather operations and services to support all Army training, planning, and operations through habitually-aligned, direct support, and general support personnel and organizations.

(2) Tailored mission planning and mission execution weather services for Army-manned aviation and Joint category 3-5 unmanned aircraft systems (UAS) via direct support. The AF provides general aviation planning and execution weather data and information for small UAS (SUAS) via general support.

(3) Weather operations and services for emergency management/response, under DOD authorities.

(4) Formal coordination with DCS, G-2 on AF-developed weather policies and concepts.

(5) Weather personnel collocated with DCS, G-2 to assist with the coordination of Army weather policy, with TRADOC to assist with Army requirements generation and collection, capabilities assessments, doctrine, training, and

concepts development, and with the NGB to manage the NGB weather program and weather support to the Army National Guard.

(6) Weather SMEs to participate in Army airfield inspections and certifications.

(7) Tailored climatological information and long-range outlooks in direct support of Army planning and operations through the designated AF SWO.

(8) Technical assistance to the Army as they develop materiel/nonmateriel solutions to meet the Army's weather responsibilities.

(9) Weather subject matter expertise and data and information tailored to assist Army hydrological forecasting, terrain analysis, and mobility assessments.

b. Deployed and/or installation support plans development. During mobilization, deployment and/or redeployment, contingency and emergency management/response plan development and in coordination with the supported Army commander, the AF develops a plan to provide the Army with weather services to support Active and Reserve Component mobilization, deployment and/or redeployment, contingency operations, stay-behind forces, installations, garrisons, and airfields. During mobilization, deployment, and emergency management and/or response planning, the AF will provide staff weather services for the garrison commander.

c. Deployed support. The AF provides—

(1) The personnel and equipment to support Army deployed operations and Army weather requirements in deployed, contingency, and/or wartime operations as described in Joint Chiefs of Staff (JCS)-directed operations plans and operations orders as reflected in the task organization of these and component plans and orders. Organizations providing reach-back support are included in these plans and orders as tasked organizations. Detailed weather planning and coordination of the array of requirements that generate reliable, quality weather support and services are critical to successful operations.

(2) Qualified individuals to attend specialized tactical or mission-specific Army-provided training based on the Army mission supported as deemed appropriate by the AF command authority.

(3) TPFDD entries for AF personnel and AF-provided equipment unit type codes (see para 2–2c(2)) of this regulation).

(4) Habitually aligned AF personnel at the following Active and Reserve Component echelon headquarters in direct support of— ASCCs, corps, divisions, combat aviation brigades (CABs) (to include aviation battalions), brigade combat teams (BCTs), armored cavalry regiments, special forces groups, special forces battalions, ranger regiments, and special operations aviation regiments (SOARs), both in garrison and when deployed. The AF may task organize and align personnel at other echelons based on the Army mission supported and as deemed appropriate by the AF command authority.

(5) Surface weather sensing capability at locations where the AF has deployed weather personnel. The AF will provide airfield weather services at CAB and regiment main airfields at a comparable level of support provided to installation and garrison airfields.

(6) Advice to Army leadership during determination of emplacement locations for Army-owned weather sensing equipment.

d. Numerical weather modeling. The AF leads numerical weather modeling efforts to fulfill Army operational requirements. The AF will include and integrate land-surface (soil moisture, temperature, snow characterization) and other relevant (for example, atmospheric chemical constituents, aerosols) parameters into numerical weather modeling products. The AF in coordination with the Army will verify, validate, approve, and implement prototype microscale models developed by the Army (see para 2–2f of this regulation) for operational use. The Army will verify and validate the accuracy of meteorological inputs and approve for implementation to meet Army Field Artillery System requirements.

e. Environmental scenarios. Through Army coordination with the designated SWO, the AF provides or arranges (within means and capabilities) a replication of the operational weather environment to support Army training and operational systems during BCT and higher-level exercises, aviation battalion and higher exercises, special forces battalion and higher exercises, and for weapons system simulators.

f. Weather decision aids and exploitation tools.

(1) The AF provides critical and operationally-significant threshold values for weather impacts on AF and air component threat (including air defense) systems to the Army.

(2) The AF will assist the Army with the development of deployed and operational level decision aids and exploitation tools. The AF will collaborate with the Army to develop one common set of exploitation tools and decision aids to be employed operationally with AF weather capabilities in support of the Army.

g. Weather services hardware and/or software. The AF will provide an AF weather services capability and collaborate with the Army to ensure it interfaces with and/or is interoperable with an Army command and control system (for example, the Army's intelligence system).

h. AF systems development. Through the JCIDS process, the AF, with Army assistance, designs systems to operate in the deployed environment and meet Army standard criteria for tactical mobility, target signature, and communications capability and accreditation.

i. Office of the Federal Coordinator for Meteorology liaison. The AF provides a liaison to the Office of the Federal Coordinator for Meteorology to facilitate coordination of weather issues that affect both the AF and Army at the Federal Government level.

3-3. Communications responsibilities

a. The AF funds, provides, installs, tests and evaluates, operates and maintains secure and non-secure communications to move weather data, information and products, based on AF-validated requirements—

(1) Within AF information networks from/to the theater uplink site for use at Army locations (where the Army is the using command), and to/from the Joint forces theater entry point.

(2) Within AF information networks (for example, around a base or its ranges).

b. The AF will meet Army-specific security and information assurance certification/accreditation requirements for AF-provided equipment and software that are expected to operate on Army garrison/installation locations and/or on Army deployed networks.

c. AF weather functional systems do not fund to operate or maintain any specific or unique information network and rely solely on the AF information networks.

d. The AF provides access to its weather data, information and products via reach back and web-services to strategic, operational and regional units operating within AF information networks (for example, weather groups, air operations centers, and operational weather squadrons).

3-4. Training responsibilities

a. The AF trains AF personnel—

(1) On technical weather skills required to conduct weather operations and provide weather services in support of the Army.

(2) To operate and perform user-level maintenance of AF-provided weather equipment and software.

b. The AF trains Army—

(1) Commanders and staff of Army units on AF weather operational capabilities, concepts, and limitations. This includes, but is not limited to, the importance of established communications capability, sufficient transportation, and CBRNE equipment to employ weather as an enabler in support of Army operations.

(2) Personnel to take and disseminate supplemental weather observations in support of Army operations. This training is provided to, but is not limited to, specified air traffic controllers, military intelligence, aviation support, and special forces personnel.

c. AF commanders validate that AF-issued operator licenses meet, or arrange training to meet, the inter-Service reciprocity requirements stated in AR 600-55.

d. AF provides functional area SMEs to assist Army development of instructional materials for use in Army courses and continuation training programs. This includes, but is not limited to, providing lesson plans and materials required for Army instructors to teach the roles, responsibilities, and operational concepts of AF weather operations to Army personnel.

3-5. Administration, budget, and logistics responsibilities

The AF funds and provides (on a non-reimbursable basis from the Army)—

a. Manpower (for example Active and Reserve Component military, Government civilian, contractor) to conduct weather operations and provide weather services that are the responsibility of the AF as specified in this regulation.

b. Travel and per diem of non-located AF personnel conducting weather operations and providing weather services in support of the Army to the supported Army unit's location for training and non-contingency operations.

c. AF-unique training, professional development, and other requirements as specified in AF Instructions, and all associated temporary duty (TDY) costs.

d. Shipment of equipment (supplemental) owned by non-located AF organizations to the supported Army unit's location for training and non-contingency operations.

e. Installation, test and evaluation, maintenance, spare and consumable parts of all AF-provided fixed and deployed weather equipment except as stated in paragraph 2-5*r* of this regulation. The AF leads PSA development and provides technical assistance to Army allied support efforts.

f. Depot-level maintenance for AF-provided vehicles.

g. Standard individual equipment issued to AF personnel.

h. Deployed equipment to supplement Army-provided MTOE items as required.

i. Functional area SMEs to assist Army development of instructional materials for use in Army courses and continuation training programs.

j. Pay (for example, hazardous and special duty) and allowances for AF personnel-except travel pay and per diem when those items are identified as an Army responsibility in chapter 2 of this regulation.

Appendix A References

Section I Required Publications

AR 600–55

The Army Driver and Operator Standardization Program (Selection, Training, Testing, and Licensing) (Cited in para 2–2*h*.)

DODM 5105.21 Volume 3

Sensitive Compartmented Information (SCI) Administrative Security Manual: Administration of Personal Security, Industrial Security, and Special Activities (Cited in para 2–5*e*.)

Section II Referenced Forms

AFI 15–127

Air Force Weather Qualification Training

AFI 15–128 and MAJCOM Supplements

Air Force Weather Roles and Responsibilities

AFI 15–182

Weather Enterprise Capability Management

AFMAN 15–111

Surface Weather Observations

AFMAN 15–129, Volume 1

Air and Space Weather Operations - Characterization

AFMAN 15–129, Volume 2

Air and Space Weather Operations - Exploitation

AR 5–25

Army Weather Functional Activities

AR 11–2

Managers' Internal Control Program

AR 25–1

Army Information Technology

AR 25–2

Information Assurance

AR 25–30

The Army Publishing Program

AR 71–32

Force Development and Documentation

AR 95–1

Flight Regulations

AR 95–2

Airspace, Airfields/Heliports, Flight Activities, Air Traffic Control, and Navigational Aids

AR 95-23

Unmanned Aircraft System Flight Regulations

AR 420-1

Army Facilities Management

DODD 8000.01

Management of the Department of Defense Information Enterprise

FM 6-0

Commander and Staff Organization and Operations

JP 3-30

Command and Control of Joint Air Operations

JP 1

Doctrine for the Armed Forces of the United States

JP 1-02

Department of Defense Dictionary of Military and Associated Terms

JP 3-0

Joint Operations

JP 3-30

Command and Control of Joint Air Operations

JP 3-59

Meteorological and Oceanographic Operations

NGB Pam 210-20

Real Property Development Planning Procedures for the Army National Guard

Section III

Prescribed Forms

This section contains no entries.

Section IV

Referenced Forms

DA Forms are available on the Army Publishing Directorate Web site at <http://www.apd.army.mil>. AF Forms are available from the AF Web site at <http://www.e-publishing.af.mil/>.

DA Form 11-2

Internal Control Evaluation Certification

DA Form 2028

Recommended Changes to Publications and Blank Forms

AF Form 847

Recommendation for Change of Publication

Appendix B

Army Services Provided to Air Force Personnel

B-1. Services

Per paragraph 2-5l of this regulation, Army services provided to AF personnel include, but are not limited to, the following:

- a. Accounting and finance.
- b. Billeting and temporary lodging.

- c. Chaplain.
- d. Chapel and religious.
- e. Child development.
- f. Contracting.
- g. COMSEC storage and COMSEC account manager.
- h. Dental and medical (provided according to existing DOD policies and AFIs).
- i. Education and schools.
- j. Equal Opportunity Office.
- k. Enterprise internet.
- l. Enterprise email services.
- m. Exchange and commissary.
- n. Family and unaccompanied housing.
- o. Family support.
- p. Fire and police.
- q. Furnishing for family and unaccompanied housing, when applicable.
- r. Hazardous materials and environmental protection.
- s. Inspector General.
- t. Legal.
- u. Library.
- v. Mess, field rations, and dining.
- w. Morale, welfare, and recreation.
- x. Mortuary.
- y. Packing and crating.
- z. Pass and identification.
- aa. Postal.
- ab. Public affairs.
- ac. Recreation and physical training facilities.
- ad. Sexual harrassment/assault response and prevention training.
- ae. SSO and personnel security services.
- af. Transportation office services (for example, personal property, permanent change of station, TDY, and deployed equipment shipment).
- ag. Veterinary.
- ah. Youth services.

B-2. Exceptions

Civilians and contractors may not be eligible for some of these services per regulation or law.

Appendix C
AR 115-10 to AR 5-25 Crosswalk

This appendix cross references specific statements that were moved from AR 115-10 to AR 5-25.

Table C-1	
AR 115-10 to AR 5-25 Crosswalk	
Deleted from AR 115-10, dated 6 January 2010	Moved to AR 5-25, dated 2 July 2013
2-1a(1)	1-8a
2-1a(5)	1-8d
2-1a(6)	1-8e
2-1b(1)	1-9a
2-1b(2)	1-9a
2-1b(4)	1-9b
2-1c(1)	1-10b

Table C-1
AR 115-10 to AR 5-25 Crosswalk—Continued

2-1c(5)	1-10c, <i>d</i>
2-1c(7)	1-10e(7)
2-1c(8)	1-10e(8)
2-1c(6)	Will move to AR 5-25
2-1 <i>d</i>	1-11a-f
2-1e(a)	1-12a
2-1e(b)	1-12b
2-1 <i>f</i>	1-13a
2-1g(1)-(6)	1-14a-f
2-1h(1)	1-17a
2-1h(4)	1-17g
2-1h(5)	1-17b
2-1h(6)	1-17c
2-1h(8)	1-17d
2-1i(1)	1-6b(1)
2-1i(2)	1-6b(3)
2-1i(3)	1-6b(4)
2-1i(6)	1-6b(5)
2-1 <i>k</i>	1-15
2-2g	1-13b

Appendix D

Internal Control Evaluation

D-1. Function

The functions addressed in this evaluation concern Army responsibilities to equip supporting Air Force weather personnel, train Army personnel on weather issues, include weather in operational planning, and to provide administrative, installation, and allied support to Air Force weather personnel.

D-2. Purpose

The purpose of this evaluation is to assist commanders and organizations in evaluating key internal controls outlined below. It is not intended to address all management control elements. This appendix applies only to the Army.

D-3. Instructions

Answers must be based upon the actual testing of controls (for example, document analysis, direct observation, sampling, simulation, and/or others). Answers that indicate deficiencies must be explained and the corrective action indicated in the supporting documentation. These internal controls must be evaluated at least once every two years. Certification that this evaluation has been conducted must be accomplished on DA Form 11-2 (Internal Control Evaluation Certification).

D-4. Test Questions

- a.* Is standard Army equipment issued per the unit's MTOE to Air Force weather teams supporting the organization?
- b.* Do planners include the required Air Force weather operations and services needed for Army mobilization, contingency, and operations in the appropriate planning documents?
- c.* Are appropriate Army personnel trained on weather effects on Army operations and warfighting functions, weather information exploitation, and integration of weather information into decisionmaking processes, mission planning, execution, and sustainment?
- d.* Do commanders provide the necessary administrative, budgetary, and logistical support to Air Force weather teams per this regulation?

D-5. Supersession

Not applicable.

D-6. Comments

To make this evaluation a more useful tool for evaluating internal controls, submit comments to the DCS, G-2 (DAMI-OP), 1000 Army Pentagon, Washington, DC 20310-1000.

Glossary

Section I Abbreviations

ACOM

Army command

AF

Air Force

AF/A3

AF Deputy Chief of Staff for Operations, Plans and Requirements

AF/A3W

Air Force Director of Weather

AFI

Air Force Instruction

AFMAN

Air Force Manual

AR

Army Regulation

ARNG

Army National Guard

ASA (ALT)

Assistant Secretary of the Army (Acquisition, Logistics and Technology)

ASCC

Army service component command

BCT

brigade combat team

C4IM

Command, Control, Communications, Computers and Information Management

CAB

combat aviation brigade

CAM

Communications security account manager

CBRNE

chemical, biological, radiological, nuclear and high-yield explosives

CG

commanding general

CIO/G-6

Chief Information Officer, G-6

COMSEC

communications security

CPX

command post exercise

CTA

common table of allowance

DAMI-OPO

Department of the Army Intelligence

DCS

Deputy Chief of Staff

DCS, G-2

Deputy Chief of Staff, G-2

DCS, G-3/5/7

Deputy Chief of Staff, G-3/5/7

DISA

Defense Information Systems Agency

DOD

Department of Defense

DODD

Department of Defense directive

DODI

Department of Defense instruction

DOTMLPF

doctrine, organization, training, materiel, leadership and education, personnel and facilities

DRU

direct reporting unit

FDU

Force design update

FORSCOM

Forces Command

FTX

field training exercise

HQ

Headquarters

HQDA

Headquarters, Department of the Army

HQ USAF

Headquarters, United States Air Force

IMCOM

Installation Management Command

IT

Information technology

JCIDS

Joint Capability Integration and Development System

JCS

Joint Chiefs of Staff

JOPES

Joint Operational Planning and Execution System

JP

Joint Publication

JTR

Joint Travel Regulation

MTOE

modified table of organization and equipment

NEC

Network Enterprise Center

NGB

National Guard Bureau

NWS

National Weather Service

OPCON

Operational control

R&D

research and development

RC

Reserve Component

RDT&E

research, development, test, and evaluation

SCI

sensitive compartmented information

SLA

service level agreement

SME

subject matter expert

SOAR

special operations aviation regiment

SOF

special operations forces

SSO

Special Security Office

SUAS

small unmanned aircraft system

SWO

staff weather officer

TDA

table of distribution and allowances

TDY

temporary duty

TOE

table of organization and equipment

TPFDD

time-phased force deployment database

TRADOC

U.S. Army Training and Doctrine Command

TSG

The Surgeon General

TTP

Tactics, techniques, and procedures

UAS

unmanned aircraft system

UAV

unmanned aerial vehicle

USAASA

United States Army Aeronautical Services Agency

USACRC

U.S. Army Combat Readiness Center/Safety Center

USAF

U.S. Air Force

Section II**Terms****Administrative control**

Direction or exercise of authority over subordinate or other organizations in respect to administration and support, including organization of Service forces, control of resources and equipment, personnel management, unit logistics, individual and unit training, readiness, mobilization, demobilization, discipline, and other matters not included in the operational missions of the subordinate or other organizations. Also called ADCON. (JP 1)

Airfield

An area prepared for the accommodation (including any buildings, installations, and equipment), landing, and takeoff of aircraft. See also departure airfield; landing area; landing site. (JP 1-02)

Airfield weather services

For an installation, garrison, or deployed airfield— 1) Augmenting (supplementing/backing-up) automated systems when required or manually taking, recording, and disseminating surface weather observations; 2) Issuing, amending, and canceling forecast and observed weather watches, warnings, and advisories; 3) Producing and amending terminal aerodrome forecasts.

Air Force personnel

In the context of this regulation, AF-provided military, civilian, and contractor personnel conducting weather operations, providing weather services, commanding and/or controlling weather operations and/or services, and operating or maintaining weather systems. Note: civilians and contractors may not provide or be eligible for some services per regulation or law.

Augmentation (automated weather observing system)

The process of having certified weather personnel manually add or edit data to an observation generated by a properly sited, automated observing system. The two augmentation processes used are supplementing and backup.

Backup (automated weather observing system)

The method of manually providing meteorological data, and/or dissemination to an automated weather observation when the primary automated method is not operational or unavailable (due to sensor or communication failures) or when unrepresentative and operationally significant.

Collection plan

A systematic scheme to optimize the employment of all available collection capabilities and associated processing, exploitation, and dissemination resources to satisfy specific information requirements. (JP 1-02)

Deployed

1) Away from home station to conduct training or operations in a contingency area of operations. 2) Real-world or simulated deployed conditions and/or operations at home station, training centers, or other locations. Command post exercises (CPX), field training exercises (FTX), mission rehearsal exercises (MRX), and other exercises are considered deployed conditions and/or operations. (JP 1-02)

Depot maintenance

That maintenance performed on materiel requiring major overhaul or a complete rebuild of parts, assemblies, subassemblies, and end-items, including the manufacture of parts, modifications, testing, and reclamation as required. Depot maintenance serves to support lower categories of maintenance by providing technical assistance and performing that maintenance beyond their responsibility. Depot maintenance provides stocks of serviceable equipment by using more extensive facilities for repair than are available in lower level maintenance activities.

Direct support

A mission requiring a force to support another specific force and authorizing it to answer directly to the supported force's request for assistance. (JP 1-02)

Emergency Management and Response

Capabilities and services designed to reduce the loss of personnel and capabilities due to accidents, health threats, and natural disasters. (JP 3-0)

Garrison force

All units assigned to a base or area for defense, development, operation, and maintenance of facilities.

General support

That support which is given to the supported force as a whole and not to any particular subdivision thereof. (JP 1-02)

Habitual alignment

A documented standing support relationship between two organizations, or personnel and an organization.

Hydrology

The scientific study of the waters of the earth, especially with relation to the effects of precipitation and evaporation upon the occurrence and character of water on or below the land surface. The scope of hydrology may be defined as that portion of the cycle from precipitation to evaporation or return of the water to the seas. Applied hydrology utilizes scientific findings to predict rates and amounts of runoff (river forecasting), estimate required spillway and reservoir capacities, study soil-water-plant relationships in agriculture, estimate available water supply, and for other applications necessary to the management of water resources.

Information technology

Any equipment or interconnected system or subsystem of equipment that is used in the automatic acquisition, storage, manipulation, management, movement, control, display, switching, interchange, transmission or reception of data or information by the DOD component. The term "information technology" includes computers, ancillary equipment, software, firmware and similar procedures, services (including support services), and related resources. (DODD 8000.01)

Installation

A grouping of facilities, located in the same vicinity, which support particular functions. Installations may be elements of a base.

Maintenance (materiel)

1) All action taken to retain materiel in a serviceable condition or to restore it to serviceability. It includes inspection, testing, servicing, classification as to serviceability, repair, rebuilding, and reclamation. 2) All supply and repair action taken to keep a force in condition to carry out its mission. 3) The routine recurring work required to keep a facility (plant, building, structure, ground facility, utility system, or other real property) in such condition that it may be continuously used at its original or designed capacity and efficiency for its intended purpose. (JP 1-02)

Meteorological data

Measurements or observations of meteorological variables (such as wind, temperature, air density, and other phenomena that affect military operations). (JP 1-02) Note: In the context of this regulation, synonymous with weather data.

Microscale

Pertaining to meteorological phenomena, such as wind circulations or cloud patterns, that are less than 2 kilometers in horizontal extent. (NWS Glossary)

Military requirement

An established need justifying the timely allocation of resources to achieve a capability to accomplish approved military objectives, missions, or tasks. Also called operational requirement.

Mission weather services

Production of and provision of tailored mission planning and execution forecasts and mission-tailored weather effects (for example, weather impacts) to support operational decisionmaking and mission execution. Conducting mission-focused meteorological overwatch (also known as MISSIONWATCH) for the supported Army unit's area of operation (AO).

Operational Architecture

A description (often graphical) of the operational elements, assigned tasks, and information flows required to accomplish or support a warfighting function. It defines the type of information, the frequency of exchange, and what tasks are supported by these information exchanges.

Operational control

Command authority that may be exercised by commanders at any echelon at or below the level of combatant command (CCMD) and may be delegated within the command. Operational control (OPCON) is the authority to perform those functions of command over subordinate forces involving organizing and employing commands and forces, assigning tasks, designating objectives, and giving authoritative direction over all aspects of military operations and joint training necessary to accomplish the mission. OPCON should be delegated to and exercised by the commanders of subordinate organizations; normally this authority is exercised through subordinate Joint force commanders, Service, and/or functional component commanders. OPCON provides authority to organize and employ commands and forces as the commander considers necessary to accomplish assigned missions. It does not include authoritative direction for logistics or matters of administration, discipline, internal organization, or unit training. (JP 1)

Operation and maintenance

Maintenance and repair of real property, operation of utilities, and provision of other services such as refuse collection and disposal, entomology, snow removal, and ice alleviation. Also called O&M. (JP 1-02)

Organizational maintenance

That maintenance that is the responsibility of and performed by a using organization on its assigned equipment. (JP 1-02)

Preventive maintenance

The care and servicing by personnel for the purpose of maintaining equipment and facilities in satisfactory operating condition by providing for systematic inspection, detection, and correction of incipient failures either before they occur or before they develop into major defects. (JP 1-02)

Reachback

The process of obtaining products, services, and applications, or forces, or equipment, or material from organizations that are not forward deployed. (JP 1-02)

Residual forces

Unexpended portions of the remaining United States forces that have an immediate combat potential for continued military operations, and that have been deliberately withheld from utilization. (JP 1-02)

Small Unmanned Aircraft Systems

SUAS's are characterized by close range, short duration missions (for example, one to two hours). This class of UAS operates below the coordinating altitude identified in the airspace control plan.

Staff supervision

A staff relationship consisting of formal guidance and assistance provided to AF SWOs by the Assistant Chief of Staff, G-2(S-2).

Staff weather officer

The AF senior weather representative (officer or non-commissioned officer) assigned to provide and/or arrange for weather support at a respective Army echelon.

Staff weather services

Providing the supported Army commander weather subject matter expertise during Army Airspace Command and Control (A2C2) collection management and/or intelligence, surveillance, and reconnaissance synch, military decision-making process, plans development, and other staff and decisionmaking processes and operations. Providing oversight of weather services provided to subordinate commanders of the SWO's supported Army commanders. Integration of tailored mission planning and/or execution forecasts and mission-tailored weather effects (for example, weather impacts) to support operational decisionmaking and mission execution.

Supplement (automated weather observing systems)

A method of manually adding meteorological information to an automated observation that is beyond the capabilities of the automated observing system to detect and/or report.

Tactical Operations Center

A command and control facility that serves as a planning, coordinating, monitoring, advising and directing location for current deployed operations and the deployed support thereof.

Unmanned aircraft system

That system whose components include the necessary equipment, network, and personnel to control an unmanned aircraft. Also called UAS (JP 1-02). Notes: Unmanned aircraft may also be referred to as unmanned aerial vehicles (UAVs).

Unmanned aerial vehicle

A powered, aerial vehicle that does not carry a human operator, uses aerodynamic forces to provide vehicle lift, can fly autonomously or be piloted remotely, can be expendable or recoverable and can carry a lethal or non-lethal payload. Ballistic or semi ballistic vehicles, cruise missiles and artillery projectiles are not considered unmanned aerial vehicles. (JP 1-02)

Weather data

See Meteorological Data.

Weather operations

Five core processes-collection, analysis, prediction, tailoring, and integration-to characterize the past, current, and future state of the atmosphere and space environment then enable the exploitation of this environmental information at key decision points.

Weather services

The result of specialized actions to supply or meet a request for weather data, information or products.

Section III
Special Abbreviations and Terms

CAN

Campus Area Networks

CCMD

combatant command

IP

Interservice Publication

MRX

mission rehearsal exercise

O&M

operations and maintenance

PEO-IEWS

Program Executive Office-Intelligence, Electronic Warfare and Sensors

PSA

Project Support Agreement

USAICOE

U.S. Army Intelligence Center of Excellence

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