

# **Unlocking the Secrets of Field Artillery Meteorology: FM 09-15 Tactics, Techniques, and Procedures**

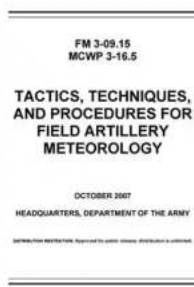
Field Artillery Meteorology (FM) plays a crucial role in modern warfare, providing accurate weather information to support artillery operations. Whether it's determining the trajectory of a shell or assessing the impact of weather conditions on artillery performance, understanding the tactical nuances of FM is essential for any artillery unit. In this article, we delve into the depths of FM 09-15, uncovering the tactics, techniques, and procedures that drive field artillery meteorology.

## **The Importance of Field Artillery Meteorology**

Field artillery units depend heavily on accurate meteorological data to ensure optimal firing performance. Variables such as wind speed, atmospheric pressure, temperature, and humidity can significantly impact artillery rounds' accuracy and effectiveness. Field Artillery Meteorologists are responsible for collecting, analyzing, and disseminating this critical weather information to artillery units, enabling them to make informed decisions on firing solutions.

FM 09-15 serves as the go-to resource for field artillery meteorologists, offering a comprehensive guide on how to carry out their duties effectively. From identifying appropriate weather data sources to predicting atmospheric conditions, this manual equips field artillery meteorologists with the necessary knowledge and techniques to excel in their roles.

**FM 3-09.15 TACTICS, TECHNIQUES, AND PROCEDURES FOR FIELD ARTILLERY METEOROLOGY** by US Army(Kindle Edition)



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## Tactics for Field Artillery Meteorology

Within FM 09-15, tactics are laid out to ensure field artillery meteorologists can operate efficiently in different operational environments. These tactics involve adapting to the ever-changing battlefield conditions and successfully integrating with artillery units to support their mission.

One such tactic outlined in FM 09-15 is the establishment of a mobile weather station. This station provides real-time weather data, allowing meteorologists to monitor changing conditions continuously. By being flexible and quickly responding to weather fluctuations, field artillery units can adjust their firing solutions promptly.

The use of unmanned aerial vehicles (UAVs) is also explored as a tactical tool for field artillery meteorologists. These drones can gather valuable weather data at various altitudes and locations, enhancing situational awareness and enabling more precise firing solutions. FM 09-15 provides guidelines on effectively employing UAVs, ensuring they become indispensable assets in the field artillery meteorologist's toolbox.

## Techniques Utilized in Field Artillery Meteorology

While tactics establish the overarching approach, techniques form the backbone of field artillery meteorology. FM 09-15 provides an array of techniques that field artillery meteorologists can utilize to collect, analyze, and interpret weather data accurately.

One technique worth highlighting is the use of weather balloons equipped with instruments to measure various meteorological parameters. By launching these balloons at different locations and altitudes, field artillery meteorologists can obtain vertical profiles of the atmosphere, crucial for understanding wind patterns and transport at different altitudes.

The manual also explores remote sensing techniques, such as radar and satellite imagery, to gather valuable visual information on weather patterns.

Understanding precipitation, cloud formations, and thunderstorms through these remote sensing methods allows field artillery meteorologists to predict weather conditions accurately and support artillery operations accordingly.

## **Procedures Enforced for Field Artillery Meteorology**

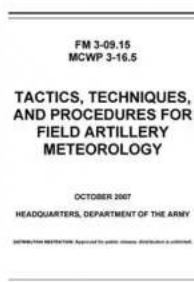
Procedures outline the step-by-step processes that field artillery meteorologists must follow to execute their duties effectively. FM 09-15 emphasizes the importance of ensuring these procedures are implemented consistently and accurately to maintain the highest level of reliability in weather data collection and analysis.

One critical procedure highlighted in FM 09-15 is the quality control of weather data. Field artillery meteorologists must meticulously validate and verify incoming weather data from various sources to ensure accuracy and reliability. An error in weather data analysis could have dire consequences in artillery operations, making quality control procedures of paramount importance.

Another procedure outlined in FM 09-15 is the regular calibration of weather measurement instruments. Calibration ensures that instruments are accurately measuring weather parameters, providing the most precise data possible. Periodic calibrations enable field artillery meteorologists to confidently rely on the data they collect and transmit to artillery units.

FM 09-15 serves as an invaluable resource for field artillery meteorologists and artillery units alike, providing the tactics, techniques, and procedures necessary to excel in the field of field artillery meteorology. By understanding and implementing the strategies outlined in this manual, field artillery meteorologists can leverage the power of weather data to improve artillery operations, enhance accuracy, and increase overall mission success rates.

Field Artillery Meteorology bridges the gap between meteorology and the battlefield, ensuring artillery units are equipped with the most up-to-date weather information to make informed decisions. As technology advances and new methods are developed, FM 09-15 remains a cornerstone in the realm of field artillery meteorology, optimizing artillery performance and ultimately contributing to the success of military operations.



## FM 3-09.15 TACTICS, TECHNIQUES, AND PROCEDURES FOR FIELD ARTILLERY

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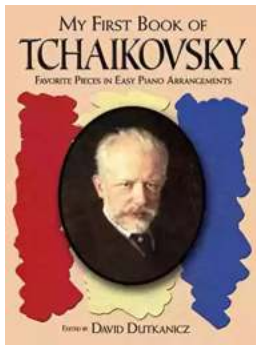


This publication provides the United States Army and United States Marine Corps (USMC) commanders, artillerymen, and meteorology (MET) crew members with tactics, techniques, and procedures for the employment of MET sections. This publication describes the equipment and tasks required to develop MET data from the selection of the MET station location to the dissemination of the MET data.



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