

SECRET FOR TRAINING ONLY

[Return to Index](#)

HEADQUARTERS, CFC 9518
Seoul, ROK
1 June 19XX

ANNEX H TO CFC OPLAN (KOREA) 9518X-XX METEOROLOGICAL AND OCEANOGRAPHIC OPERATIONS

REFERENCES:

- a. Basic Plan.
- b. Joint Pub 4-04, "Joint Doctrine for Civil Engineering Support," 26 September 1995.
- c. CJCSI 3810.01, Meteorological and Oceanographic (METOC) "Support to Joint Forces." 30 June 1993.
- d. Joint Publication 3-59, "Joint Manual for Meteorological and Oceanographic Support," 22 December 1993.
- e. Joint Publication 3-59.1, "Joint Tactics, Techniques, and Procedures for Meteorological and Oceanographic Support."
- f. AFI 15-118, "Requesting Specialized Weather Support."
- g. NAVOCEANCOMINST 3140.1, "US Navy Oceanographic and Meteorological Support Systems Manual."
- h. FM 34-81/AFM 105-4, "Weather Support for Army Tactical Operations," 31 August 1989.
- i. FM 34-81-1, "Battlefield Weather Effects," 23 December 1993.
- j. Status of Forces Agreement, UNITED STATES of AMERICA and the REPUBLIC of SAN MARCO, 1 June 19WW.
- k. CNMOC 3140.1J, US Navy METOC Support System Manual.
- l. Maps, WGS-84, series L654, KOREA, sheets 3118, 3119, 3120, 3121, 3122, 3218, 3219, 3220, 3221, 3222, 3318, 3319, 3320, 3321, 3322, 3418, 3419, 3420, 3421, 3422, 3515, 3516, 3517, 3518, 3519, 3520, 3521, 3615, 3616, 3617, 3715, 3716, 3717, 3815, 3816, and 3817, 3915, 3916, 3917, 4016, 4017, edition 001-KAMC, scale 1:100,000.
- m. Map, WGS, series L654, sheet ref l scale 1:1,000,000.

1. Situation

a. Concept of Meteorological and Oceanographic (METOC) Support. METOC support under the provisions of this Annex includes general guidance for the collection, processing, derivation, and dissemination of information describing past, present, and future space, atmospheric, oceanographic,

SECRET FOR TRAINING ONLY

and terrestrial conditions. The CFC Senior METOC Officer (SMO) is the METOC Officer for all forces assigned under the Basic Plan. The information and procedures stated in this Annex and its Appendixes is the guide for all METOC support personnel and provides COMJTF Korea a basis for Meteorological and Oceanographic data management for operational planning.

b. Assumptions

(1) US DOD and other governmental agencies will provide required METOC information in support of this OPLAN.

(2) Indigenous METOC facilities in the employment area will not be available.

(3) Friendly and neutral countries outside the employment area will continue providing pertinent METOC data of all types under the World Meteorological Organization agreement.

(4) High resolution satellite environmental data will be available during all phases of the operation through the CFC SMO and the JTF Korea Joint Force METOC Officer (JMO).

(5) Communications support provided by common communications pipelines will be sufficient to support METOC operations.

(6) JTF Korea will have priority support from Major Forecast Centers (MFCs) at Air Force Global Weather Center or Fleet Numerical METOC Center.

c. Planning Factors. The following may influence operations in the objective area:

(1) Although beaches suitable for amphibious operations are available, mangrove forests and swamps, in some places stretching 16 Km inland, often inhibit access to and from the inland areas.

(2) The rainy seasons occurs throughout the entire peninsula and along the coastal and southern regions of the operating area. It occurs March through July. The cumulative average annual rainfall is 138 inches in the south and 49.5 inches in the north. Mobility will be impeded in the southern peninsula regions and drier up-lands of the interior, during the rainy periods, all water tributaries will likely be swollen, low-lying areas may flood, and unpaved or poorly paved roads will soften creating obstacles to mobility.

(3) Cross-country movement of vehicular traffic through the mountainous areas, which belt the coastal regions, will be generally confined to road networks.

d. Resource Availability

(1) A Joint Operational Area Forecast (JOAF) will be disseminated at 2200Z and 1000Z, valid at 0000Z and 1200Z respectively.

(2) All METOC products generated CFC will be made available via the SIPRNET at:

<http://www.CFC.mil/exercise/j3/metoc.metoccmn.html>

SECRET FOR TRAINING ONLY

(3) The following bulletins have been made available via the Secure Air Force Global Weather Center Weather Information Network (SAFWIN):

HEADINGS	DESCRIPTION
FXXN17	Joint Operations Area Forecast

2. Mission. The JTF METOC Officer and all METOC supporting agencies provides accurate, consistent, and coordinated METOC support to commanders In JOA South Korea.

3. Execution

a. Concept of Operations: The JTF Korea JMO, supported by the JMFU, Weather Teams (WETM), and JTF Service component METOC assets, and, as needed, the CFC SMO, will provide in-theater weather/METOC information as required. The primary objective is to provide tailored METOC support products and timely advice in order to maximize the effectiveness of operational resources and to provide force/resource protection. Permanent U.S. facilities in the region, such as the Naval Central METOC Facility, Hawaii, will be used to the maximum extent possible to satisfy METOC support requirements. Also, to keep appropriate records and advise COMJTF Korea on all matters pertaining to deployment and redeployment planning and execution. Weather teams (WETM) will be provided, as requested, should requirements exceed JTF Korea capabilities.

(1) Compliance Requirements

(a) A Joint Force METOC Forecast Unit (JMFU) is assigned to and will deploy with JTF Korea. The JMFU will serve under the JTF Korea JMO. The JMFU will be the centralized weather support source. Internal to the JMFU is aviation weather support elements for appropriate aviation observations and forecasts.

(b) The JMO will assure that appropriate communications links are established and maintained to access all weather information sources and to make and promulgate current observations and forecast information throughout the JTF via the JMFU.

(c) Weather forecasts will include current and expected sea-states and tides, as well as, the routine weather observations and projections.

(d) Weather data that is perishable requires access to the most expeditious means of communications for dissemination.

(2) Phased Compliance

(a) The JMFU will issue a Joint Operational Area Forecast(JOAF), centralized weather support products, and other available data for use by JTF Korea. The JOAF will be used as the primary source of meteorological information, but will be tailored as required to generate the Tactical Operational Area Forecast (TAOF), which will also be generated by the JMFU. The TAOF will meet subordinate echelon support requirements.

(b) All in-theater SWOs will use the JOAF/TOAF as the basis for tailoring specific route, area, and target forecasts.

SECRET FOR TRAINING ONLY

(c) Surface observations for the aviation community will be updated hourly. Other weather information will be provided at 12-hour intervals beginning at 0400 hrs local each day. In rapidly changing meteorological circumstances, this interval will be shortened as necessary to accommodate operational planning and execution.

(3) Mission Support: The JMFU with the assistance of the WETMs/component METOC personnel/agencies, as required, will provide, at a minimum, the following products and services:

- (a) Hourly surface observations
- (b) Aviation operations observation board updated at 2-hour intervals. Initial board data entry is at the discretion of the COMJTF Korea.
- (c) Aviation operations forecast board updated at 6-hour intervals during flight operations.
- (d) Mission Control Forecasts (MCF) updated at 1-hour intervals.
- (e) Weather Warnings (WW) and Weather Advisories (WA) updated at 30-minute intervals as weather conditions dictate.
- (f) Terminal Airdrome Forecasts (TAF) updated at 6-hour intervals.
- (g) Flight Weather Briefings in person or via the Pilot-to-Metro Service (PMSV), if available.
- (h) 24-hour, 48-hour, and 72-hour plain language forecasts including solar and lunar data for ground commander planning updated at 8-hour intervals.

(10) Marshalling of personnel assigned to the JMO/JMFU JTF Korea will be NLT D-10. Refer to CFC SOP.

(11) METOC personnel and equipment from CFC, in support of operations, will be deployed/redeployed as directed by HQ, JTF Korea.

b. Tasks and Responsibilities

(1) USARKorea

- (a) Maintain continuous watch of battlespace conditions affecting maneuver forces in the ISB.
- (b) Employ sensors to collect weather data as required.
- (c) Provide required communications support currently unavailable within SOCKorea to support SOCKorea METOC operations.

(2) PACFLT-NGCC

SECRET FOR TRAINING ONLY

- vicinity of the JOA.
- operations.
- (a) Employ sensors to collect weather data as required.
 - (b) Maintain a continuous METOC watch of Maritime conditions within and in the vicinity of the JOA.
 - (c) Be prepared to provide an Amphibious Objective Area Forecast.
 - (d) Act as the focal point for METOC requirements in support of countermine operations.

(3) MARFORKorea. Employ sensors to collect weather data as required.

(4) 7th ACCAF

- (a) Employ sensors to collect weather data as required.
- (b) Determine AFFOR requirements for alternate, divert, or secondary airfields/targets and employ special sensors to collect and disseminate weather data as required.
- (c) Maintain a continuous METOC watch of battlespace conditions effecting the employment of air forces.
- (d) Issue Air Refueling Track Forecasts

(5) SOCKorea. Employ sensors to collect weather data as required.

c. Coordinating Instructions

(1) Provide, or arrange for, appropriate communications in support of organic METOC elements.

(2) Provide an estimate of METOC impacts upon JTF-Korea operations twice daily using little or no impact, moderate impact, or severe impact as criteria.

(3) To ensure unity of effort, the Joint Operations Area Forecast (JOAF) will be utilized as the coordinating forecast for the JOA.

(4) METOC support elements operating within the JOA are responsible for monitoring JTF products for consistency, adequacy, and development of local support products. Joint METOC Operations Area Forecasts are coordinated by the JMO.

(5) Weather Warning and advisory Responsibility.

(a) Warnings and/or advisories of hazardous/ destructive weather conditions of a localized nature are the responsibility of the on-scene weather support element.

(b) Maritime warnings of high sea/high winds for the JOA are issued by the Naval Central METOC Facility, Hawaii.

SECRET FOR TRAINING ONLY

(6) Service Components are responsible for satisfying communications requirements of subordinate elements.

(7) Service Components are responsible for maintaining location information and tactical identifiers (KQ ids) for deployed elements. Service Components will transmit weather observations and forecasts to the JTF Korea METOC Cell for incorporation into the battlespace picture.

(8) "NITELITE" version 2.0 will be the standard software for determining astronomical events (sunrise, sunset, lunar illumination).

(9) The designated regional METOC production center is the Naval Central METOC Facility, Hawaii.

(10) The designated oceanographic support facility is the Naval Oceanographic Office, Arizona Space Center.

(11) In order to prepare for future mission METOC support forces must identify deficiencies or errors in climatology, inadequacies of existing equipment or structure, and any occasions where force requirements were not met. The JMO acts as the central collection facility and provides lessons learned for METOC support to the SMO.

(12) The CFC SMO is responsible for coordinating all external METOC support requirements for JTF, Korea, and for interservice METOC procedures above the JTF level.

(13) Direct coordination is authorized between all components/SWOs. All CFC level specific METOC taskings will be coordinated with the CFC SMO.

(14) The CFC SMO will serve as the focal point as overall METOC coordinator and in problem resolution at the CFC level. The JMO, JTF Korea, will provide this function in the JTF and subordinate echelons.

(15) Any METOC requirements exceeding capacities of JTF Korea should be drawn to the attention of CFC SMO.

(16) DIRLAUTH all concerned.

4. Administrative and Logistics

a. Administration. Administrative support to the JMO/JMFU and other METOC personnel assigned but not organic to the JTF will be the responsibility of the Commander, JTF Korea, or subordinate commands as appropriate.

b. TDY orders are provided by the CFC Personnel Office.

c. Logistics

SECRET FOR TRAINING ONLY

(1) Weather personnel and units are not self-supporting. JTF Korea must provide required support.

(2) Address logistics problems, which can not be satisfied at the JTF level, to the CFC, SMO and J-4.

d. Reports: as required.

5. Command and Control

a. All non-organic weather personnel assigned to JTF Korea in support of projected operations will be attached to the JTF Korea JMFU for administrative and disciplinary actions, except as specified in the following paragraphs:

(1) Administrative control of U.S Army (direct support) METOC personnel will be exercised by Commander, USARKorea.

(2) Administrative control of U.S Navy (direct support) METOC personnel will be exercised by CINCPACFLT.

(3) Administrative control of USMC (direct support) METOC personnel will be exercised by COMMARFORKorea.

(4) Administrative control of US Air Force (direct support) METOC personnel will be exercised by Commander, 7th ACCAF.

b. During periods of communications outages, the JMFU will require access to common user and/or command and control communications to maintain contact and provide required support.

c. JTF Korea, JMO will implement Meteorological Control (METCON) at the direction of CINCSOUTH or higher authority.

d. The JMO is responsible for submitting theater-wide communications requirements to the JTF Korea J-6.

e. Loss of communications circuits will critically degrade control and provision of METOC services. Use available Host Nation broadcast services to supplement and augment locally observed parameters until circuits are restored.

f. Control and disclosure of METOC information is contained within OPSEC instructions.

JIM R. RILEY
General, USA
Commander in Chief

SECRET FOR TRAINING ONLY

OFFICIAL:

/S/

GORDON R. VOSHON
Capt, USN
Director, Meteorological and Oceanographic Operations