

**Meteorological and Oceanographic Letter of Instruction
EXERCISE Joint Red Flag 2005 (JRF 05)**

1. **References.**

- a. [CJCSI 3810.01](#), Meteorological and Oceanographic (METOC) Support, 25 Aug 2003
- b. [Joint Metoc Handbook](#), 1 May 00
- c. [Joint Pub 3-59](#), Joint Doctrine for Meteorological and Oceanographic Support, 23 Mar 99
- d. [ANNEX H TO COMACC EXPLAN 80](#), Red Flag/Maple Flag Oct 2003
- e. [Roving Sands 05 White Cell Special Instructions](#), 28 May 99
- f. [Roving Sands 05 Military Exercise Letter of Agreement](#), effective 18 Jun 01

2. **LOI POC:** MSgt James Vinson, FORSCOM Staff Weather Officer, DSN: 367-7473. Email james.vinson@forscom.army.mil. Mailing address: 2WF/WXF, 1777 Hardee Ave SW, Fort McPherson GA 30330-1062.

3. **Purpose.** This Meteorological and Oceanographic (METOC) Letter of Instruction (LOI) is to provide the concept of operation, instructions, and planning guidance for Exercise Joint Red Flag/ Roving Sands 2005(JRF 05) in order to achieve unity of effort between participating METOC agencies. The exercise runs between 19 March and 2 April 2005 and activities will take place across the Nevada Test and Training Range (NTTR), and Nellis AFB, Nevada, Fort Bliss, Texas, White Sands Missile Range (WSMR), NM, Davis-Monthan AFB AZ, Cannon AFB NM, Fort Hood, Texas, and Holloman AFB, NM. The Roving Sands portion of the exercise is being played in the Southwestern United States in the fictional countries of Eureka, Heartland, El Dorado and Baja. The WSMR, Carizzozo, Cowboy and Cruces Forecast products should be tailored specifically for these fictional locations. This LOI also describes responsibilities of both deployed and home-based METOC units in support of JRF 05.

4. **Participating METOC Units.** The following list states the participating METOC units (numbers of aircraft and daily sorties can be found in this [Sortie Matrix](#) link):

<u>UNIT</u>	<u>SUPPORTED FORCE</u>	<u>LOCATION</u>
25 OWS	All Forces	Davis-Monthan AFB, AZ
26 OWS	All Air Forces	Barksdale AFB, LA
377 SPTG/OTW	2 BW, GAF, ANG, 366 WG/34 BS	Kirtland AFB, NM
2 OSS/OSW	2 BW/96 BS	Barksdale AFB, LA
5 OSS/OSW	55 RW/38 RS	Offutt AFB, NE
49 OSS/OSW	GAF	Holloman AFB, NM
27 OSS/OSW		Cannon AFB



Exercise Geography

UNCLASSIFIED

- Supports JRF (5 Venues)
- Includes Western Range Complexes
- Eureka & El Dorado are OPFOR Countries
- Heartland is Friendly
- Baja is Neutral
- Scenario Supports OIF/OEF LLs & 4ID OIF Preparation
- First Time 2-Front TBM/ABT Threat for TAMD Forces
- First Time Usage of Live CM Surrogates
- TAMD Forces Support AMD Plan Covering Over 2000 Miles



5. **Concept of Operations (CONOPS).** Joint Red Flag 05 operators require weather support in order to plan and execute all missions within the scope of JRF 05. **The Joint Pub 3-59 Annex G, http://www.dtic.mil/doctrine/jel/new_pubs/jp3_59.pdf, will be used for determining METOC impacts on operations.** The 25th Operational Weather Squadron (25 OWS) located at Davis-Monthan AFB, AZ will serve as the Joint METOC Forecast Unit (JMFU) and provide services and products as outlined in the JRF 05 Support Assistance Request (SAR). 25 OWS will maintain a JRF 05 homepage on their western CONUS (SIPERNET and NIPERNET) weather operations homepage and produce the Joint Area of Operations Forecast (JOAF). The JOAF will serve as the "official" forecast guidance for all JRF 05 METOC support products and be available at 0700UTC and 1900UTC daily. The 25 OWS will host daily forecast "chats" in order to ensure all METOC units are briefing coordinated and consistent products and to discuss go/no go decisions among all participating JRF 05 weather units. The 25 OWS will post "chat" times. The 25 OWS will also provide staff METOC services and products to operators within the Joint Exercise Control Group (JECG) White Cell.

The CAOC SWO at Nellis AFB is assigned as the Joint METOC Officer (JMO) and will coordinate staff METOC services and products to the Red Flag operations at Nellis AFB and Roving Sands 05. Direct coordination between all weather organizations is authorized and encouraged. However, any deviations from the 25 OWS JOAF or Nellis Range Forecast will be coordinated with the CAOC SWO prior to issuance, except to satisfy an immediate operational requirement, or under conditions affecting the immediate safety of personnel or equipment. Under such conditions, coordination will be accomplished as soon as possible. Again, coordination between participating METOC units is vital to the success of the Joint Red Flag/Roving Sands 05 METOC support.

All units providing operational support will ensure they telephonically pass their local area weather advisories and observed warnings to the 25th OWS. They will also inform the 25 OWS if the local

National Weather Service office issues a watch or warning for any part of the exercise area. The 25 OWS Homepage will be the primary means of accessing JMFU weather products. The JRF/RS 05 SAR contains bulletin and Homepage address for the JMFU products. A copy of the SAR, the above listed references, and climatological data can be found on the 2d Weather Flight **military access only** homepage under the Roving Sands 05 section. The URL is <http://freddie.forscom.army.mil/weather/RS01/RS01.htm>.

6. Duty Responsibilities.

a. **Deployed/Home-base Units.** The deployed/home-base weather flight commanders are responsible for ensuring all participating JRF/RS 05 flying units deployed to their base receive the necessary METOC support to ensure successful and safe flying missions. Deployed/Home-base weather flights will use 25 OWS-produced JRF/RS 05 products as their "official" forecast guidance for the JRF/RS 05 [Exercise Play Box](#). Deployed/Home-based forecasters assigned to provide weather briefings to JRF/RS 05 participants will participate in the daily forecast "chats" and provide feedback to the 25 OWS. Deployed/Home-base weather flights will pass local weather warnings and advisories to the 25 OWS for exercise situational awareness.

b. **25th Operational Weather Squadron Support.** The 25 OWS will serve as the JMFU for JRF/RS 05. They will provide products IAW the JRF/RS 05 SAR and maintain a JRF/RS 05 homepage on SIPERNET and NIPERNET under the Western CONUS Weather Operations Page (<https://25ows.dm.af.mil/index.cfm?aor=2>). The homepage will include links to the JOAF bulletin (FXUA2 KGWC), the Point Display Model bulletin (FXUA3 KGWC) containing flight-level data, the JRF/RS 05 low-level IR/VR tracks (FXUA4 KGWC), the Melrose Range forecast bulletin (FOUS01 KCVS), forecast bulletins **FDUS 21-24 and FOUS 51-54**, NWS horizontal weather depictions, AFWA military weather advisories (MWAs), JRF/RS 05 observations and forecasts, JRF/RS 05 weather warnings and advisories, NEXRAD and lightning data including loops, GOES and DMSP imagery including loops, various MM5 Meteograms, and Western US MM5 visualizations (under the CONUS Region Model Charts). The 25 OWS will provide electronic briefing products to the JECG and coordination cells concerning weather impacts to operations upon request. The JECG requires this daily electronic briefing support by 1130UTC. As the assigned JMFU to the JECG, the 25 OWS will telephonically pass any weather warnings and advisories affecting the JRF/RS 05 Exercise Areas and bases to the JECG Ops Officer for situational awareness. If required, the 25 OWS will provide terminal aerodrome forecasts (TAFs), weather warning and weather warning advisory, flight weather briefings and support for remote airfields to include support for Indian Springs and Biggs Army Airfield. Products will be available as detailed in the JRF/RS 05 SAR. The 25 OWS Western CONUS can be reached at DSN 228-6674 or commercial (520) 228-6674.

c. **26th Operational Weather Squadron Combat Weather Flight (26 OWS/CWF).** The 26 OWS will be designated the JFACC Staff Weather Office and the Air Force Forces (AFFOR) Staff Weather Office. The 26 OWS will be responsible for METOC support to the JFACC and associated Air Operations Center cells. Will coordinate requests for any special army products and forward to the JMFU any product requests that the weather operations team cannot fulfill. The 26 OWS/CWF will provide electronic briefing products to the JFACC and coordination cells concerning weather impacts to operations upon request. The JFACC requires a daily electronic update briefing by 2000UTC and a decision briefing by 0100UTC. The 26 OWS/CWF will electronically pass any weather warnings and advisories affecting the JRF/RS 05 Exercise Areas and bases to the AOC Ops Officer for situational awareness. The 26 OWS/CWF will electronically pass any go/no go decision briefings to 25 OWS and participating JRF/RS 05 weather units. The 26 OWS/CWF will deploy with 1 Theater Weather Server (AOC LAN Web server), and 3 production laptop computers. The 26 OWS/CWF will be located in the Readiness Training and Operations Center (RTOC), Area A on Barksdale AFB and can be reached at DSN 781-3024 or

commercial (318) 456-3024. The 26 OWS/CWF will provide direct support to 8th AF AOC Ops and requires SIPRNET access to support Roving Sands. The SIPRNET is required for reachback capability and access to weather products generated by the 25th OWS at Davis Monthan in support of Roving Sands. In addition, the SIPRNET must be connected to the Coalition (Joint) LAN in order for the Theater Weather Server to host the 25th OWS suite of products and products the CWF generates internally in addition to making these products available to each of the divisions within the AOC.

d. 27 OSS/OSW Combat Weather Team, Cannon AFB / 49 OSS/OSW Combat Weather Team, Holloman AFB / 57 OSS/OSW Combat Weather Team, Nellis AFB Flight. Responsible for METOC support for their base and deployed JRF/RS 05 aircraft. Each Combat Weather Team will be augmented by two weather technicians to assist with providing necessary support for mass briefings and coordinate all go/no go briefs with the 25 OWS and the Nellis CAOC.

7. Reports. Reports provide commanders information necessary to evaluate the readiness of assigned forces. They also provide an excellent opportunity to review performance and crossfeed valuable lessons learned in providing tactical or deployed weather support. The following reports are fairly standard for AFW units and are in addition to any reporting requirements by supported customer:

a. Situation Reports (SITREPs). Provide initial SITREP of personnel and equipment status to the CAOC SWO at Nellis AFB NLT 2300Z 21 Mar 05. The purpose of the initial SITREP is to help identify deployed unit problems early and begin working possible solutions. Initially, provide a force list of all deployed personnel, and their deployed and home station locations, along with an equipment inventory and status (met and admin equipment, as applicable). Provide daily follow-up SITREPS if status of personnel or equipment changes. (see AFMAN 13-135 for example)

b. After Actions Report (AAR). This report will cover significant activities, significant METOC impacts on operations, areas of excellence, problems encountered/resolved, shortfalls, and coordination problems between METOC support elements. Provide the AAR to your chain of command in accordance with their directives or NLT 2 weeks after ENDEX/Redeployment. Also provide 2d Weather Flight a copy or your AAR via email or address listed in paragraph 2.

c. METOC Lessons Learned. All METOC officers will ensure significant lessons learned are entered into the Joint Uniformed Lessons Learned System (JULLS).

8. Safety and Security. Follow local or deployed safety and security procedures.

Attachment
Roving Sands 2005 Weather POCs

JOINT RED FLAG 05 WEATHER POCs

OPR: 2WF

UNIT/OFFICE (JRF/RS 05 Unit)	POC	PHONE	E-Mail
FORSCOM JMO Air Ops Planner:	Major J. J. Golemboski MSgt James Vinson	DSN 367-5403 367-7473	Joseph.golemboski@forscom.army.mil James.vinson@forscom.army.mil
ACC/DOW	Maj James Cantrell MSgt Thomas Zipprich	DSN 574-8462	James.cantrell@langley.af.mil thomas.zipprich@langley.af.mil
25 OWS (JMFU)	Capt. Andrea Hagen Capt Jonathon Mason	DSN 228-0283 Comm (520) DSN 228-1396 COMM (520) 228-1396	Andrea.hagen@dm.af.mil jonathan.mason@dm.af.mil
26 OWS (JFACC Spt)	Mr Harry Druckenmiller Capt Dean Carter	DSN 781-0206 DSN 781-0206	Christopher.Hollinger@barksdale.af.mil Dean.Carter@barksdale.af.mil
Nellis AFB 57 OSS	LT Tiffany Bendorf	DSN 682-4744	Tiffany.Bendorf@nellis.af.mil
Holloman AFB, NM 49 OSS/OSW		DSN 572-7325	
Cannon AFB, NM 27 OSS/OSW		DSN 681-2749	
Barksdale AFB, LA 2 OSS/OSW		DSN 781-5735	