

# **METMF(R)**

## **Meteorological Mobile Facility (Replacement)**



***The Meteorological Mobile Facility – Replacement (METMF(R)) is a deployable weather office that supports Marine Corps expeditionary operations. The METMF(R) is a complex, COTS-intensive, fully integrated transportable system consisting of:***

- **Processing Subsystem**
  - NITES 2000\* (weather analysis & forecasting, and data repository)
- **Meteorological Satellite Subsystem (MSS)**
  - Receives meteorological satellite imagery from polar orbiting and geostationary satellites
- **Rawinsonde Subsystem (RWS)**
  - Ingests and processes upper-air soundings
- **Local Sensor Subsystem (LSS)**
  - Surface wind
  - Surface air temperature and dew point
  - Precipitation rate
  - Cloud height
  - Visibility
  - Pressure
  - Lighting
- **Two Remote Sensors Subsystem (RSS) (up to 200 nautical miles from shelter)**
  - Surface wind
  - Surface air temperature and dew point
  - Precipitation rate
  - Pressure
- **Meteorological Radar Subsystem (MRS)**
  - Real-time display of atmospheric conditions
- **Communications Subsystem (CMS)**
  - Tactical Data Network (TDN)/SIPRNET
  - Fleet broadcast
  - RATT
  - HF FAX
  - Dial-up network service
- **Video Distribution Subsystem (VDS)**
  - Video briefing
- **Portable Meteorological Subsystem (PMS)**
  - NITES IV\*
- **Shelter Subsystem**

\* Planned