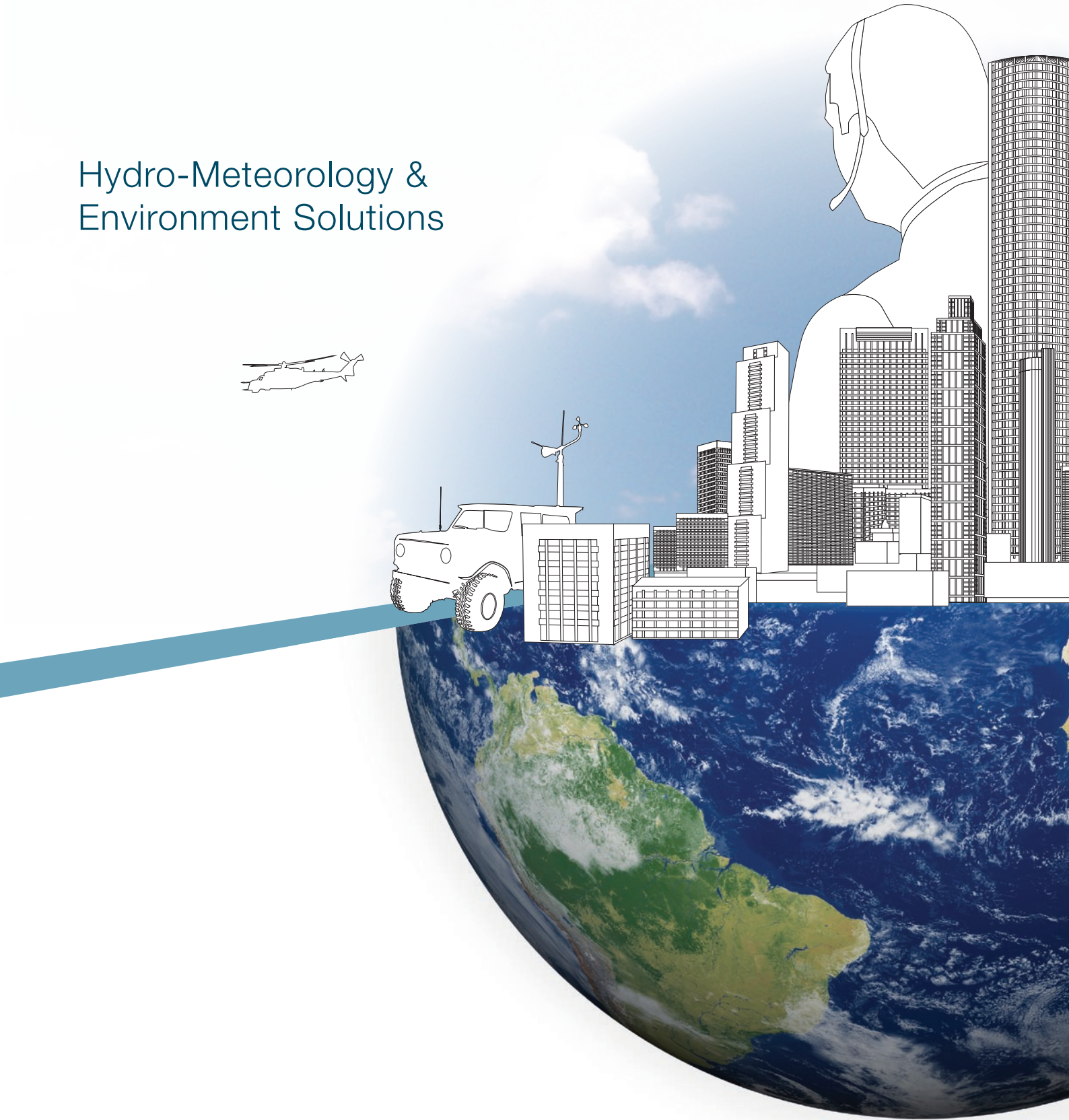


Hydro-Meteorology & Environment Solutions





Hydro-Meteorology Control Centers

Accurate and timely prediction of Hydro-Meteorological conditions is essential to all aspects of daily life and occasionally critical to human life. Mer Systems experienced approach towards the integration of observation networks of wide sensing technologies (WMO standards), together with advanced weather models, presents unmatched forecasting precision. Combined with powerful, dynamic and intuitive software application, forecasters are now able to visualize current and future weather conditions and make available forecasting products and services for a diverse user base in both military and civilian fields.

Mer Systems solutions include:

- Observation Networks data collection and verification
- Analysis, processing and presentation
- Meteorological and climatologically data bases
- Meteorological modeling and Forecasting tools
- Meteorological Desktop Publishing
- Climatology research supporting tools

Environment Solutions

Environmental monitoring is a critical part of public and industrial safety. The necessity to monitor air and water content for harmful levels of pollutants, as well as noise, dust and pollen readings, requires state of the art monitoring equipment, combined with powerful software applications.

Mer Systems solutions include:

- Ambient air monitoring
- Noise, dust and pollution monitoring stations
- Radiation monitoring stations
- Mobile stations for Ozone, PM2.5, PM10 and NOX monitoring
- Water quality stations
- Hydrology stations for discharge, level and temperature monitoring
- Training and consultancy for a turn-key approach to implement above capabilities

Hydro-Meteorological information is vital to planning, conducting, and sustaining civilian way of life and military operations.

Mer Systems Hydro-Meteorology and Environment Division, has a proven track record with the Israeli Air Force, Artillery Corps and the Ministry of Environment Protection. Mer Systems is a world leader in Hydro-Meteorological solutions including Control Centers, forecasting technology and observation networks.



Aviation Meteorology Solutions

Accurate and timely weather forecasting is essential for all aspects of both civil and military air operations.

Nowdays, it is extended to Unmanned Aerial Vehicles and observation balloons.

Practical experience and knowledge based on field proven tools and methods developed with Israeli Air Forces Meteorological Division throughout many years.

Mer Systems solutions include:

- Data analysis, verification, presentation in SYNOP and METAR code formats
- Installation of meteorology stations and other sensing networks which include automated surface and maritime stations, ceilometers, present weather detectors, thunderstorm detectors, weather radars and radiosonde stations
- The establishment of Environmental Doppler Surveillance Radars network

Ballistic Meteorology

Meteorology data is a critical data set for accurately predicting ballistic trajectories within the atmosphere.

This has relevance to tube & rocket artillery and air defense systems (Iron Dome).

Mer Systems has vast experience, supporting Artillery corps in both the Israeli Defense Forces and other Armies across the globe.

Mer Systems solutions include:

- Complete SW solution for both Upper Air and Surface measurements
- Artillery messages including NATO STANAG, METOM, METEO11 and customer message formats customization
- End to End integration into C4I systems
- Combining Mesoscale Meteorological Forecasting Model
- Tailoring the modeling system to the customer needs
- Weather modeling capability with less than 1 Km spatial resolution
- Running a Forecast Numerical model on a moving platform

A member of the Mer Group

Mer Security and Communications Systems Ltd.

Headquarters: 5 Hatzoref St., Holon 58856, Israel

T: +972-3-5572555 • F: +972-3-5580282

info@mer-systems.com • www.mer-systems.com • www.mer-group.com



Security and Communications Solutions