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## **COASTAL ENVIRONMENTAL SYSTEMS, INC.**

### **Air Force Combat Weather Center's New Facility Receives Latest in Weather Monitoring Systems**

**Seattle, WA:** Coastal Environmental Systems' Installation Team continues to carry out site installations for the U.S. Air Forces' FMQ-19 Fixed Base Weather Systems contract. The most recently installed FMQ-19 system is located at Hurlburt Field, FL, at the Air Force Combat Weather Center's (AFCWC) new facility. FMQ-19 is the latest in weather monitoring systems that will automate collection of the Air Force's weather data at air bases worldwide. Data will be used for air traffic control. Coastal was awarded the contract to manufacture and install the fixed base weather systems, as well as provide training and logistics support at 200 air bases throughout the globe.



FMQ-19 – AFCWC, Hurlburt Field, FL

Separate from normal operations at the base and airfield, the AFCWC is involved in examining emerging technologies, innovative ideas, and warfighter weather requirements. Its newest facility, located at Hurlburt Field, FL has a 59,000 sq. ft. equipment yard to provide for tactical and fixed equipment to be set up for testing, training and evaluation in "true" field conditions. The FMQ-19 system installed here will be used by the Air Force for testing and troubleshooting sensors (new and old), as well as for any new software revisions.

The FMQ-19 system is a fixed-base system in Coastal's defense meteorology line of weather stations – a Commercial-Off-the-Shelf (COTS) product. Data from its sensors are collected by the ZENO<sup>®</sup> 3200, a 32-bit data acquisition system designed specifically for environmental monitoring. ZENOSOFT<sup>®</sup> data, (the operating system for the ZENO<sup>®</sup>), automatically obtains and disseminates weather data. The FMQ-19 system has an extensive list of sensors.

A complete sensor suite (calculated values in parenthesis) is: wind speed and direction (wind gust), relative humidity, (dew point), temperature, visibility, present weather (answering the question – is it rain or snow, and falling at what rate), total precipitation, cloud height (several layers), presence of ice, detection of lightning and direction (nearby or approaching), (obscuration reporting), (Runway Visual Range (RVR)), barometric pressure and (altimeter setting). Other parameters will be calculated concerning the pressure and winds.

For more information on the FMQ-19 weather monitoring system, please contact Patrick Kelly at: [pkelly@coastalenvironmental.com](mailto:pkelly@coastalenvironmental.com)

Information on the AFCWC was obtained from: [https://afweather.afwa.af.mil/news/cwc\\_ribbon\\_cutting.html](https://afweather.afwa.af.mil/news/cwc_ribbon_cutting.html)