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COASTAL ENVIRONMENTAL SYSTEMS

NAVY SELECTS COASTAL FOR AVIATION WEATHER STATIONS TO BE USED IN THE ANTARCTIC!

Seattle, WA: Coastal Environmental Systems was awarded a contract for 3 Aviation Weather Stations to be used in the Antarctic. The stations are for airfield support. They measure wind speed and direction, relative humidity, barometric pressure, visibility and cloud height. They also calculate wind gust and variability (sigma theta), dew point and the altimeter setting. The stations will be transported to a “camp” where a landing field is needed and erected for use at that site until the camp is moved or their project is completed. The data will be displayed on a local read out screen and may also be sent out via the ARGOS satellite in a future enhancement.



One of Coastal's Antarctic Stations with Visibility and Cloud Height

The **ZENO[®]-3200** is the data collection platform used to collect, calculate and present the data. The **ZENO[®]-3200** runs extensive automated diagnostic (BIT) tests on the entire system and on each sensor. The system must operate on solar power so the advance power management available in **ZENOSOFT[™]** (the data collection operating system) was crucial.

The size, weight and deployment time of the system was a strong factor in the overall consideration. “The harsh weather of the Antarctic is challenging to even the most robust equipment and the deployment of optical sensors (visibility and ceilometer) adds unique difficulties” said Gary Stringer, a Coastal employee with first hand Antarctic experience. “You have to warm them up longer, take more samples, average more data AND have the ability to sort through the data and throw out bad data points – all within seconds. I don’t know of any other DCP besides the ZENO[®] that can do that.”