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COASTAL ENVIRONMENTAL SYSTEMS, INC.

South Pole Weather Report - Now Available With Your Morning Coffee!

Seattle, WA: Ever want to know what the weather is like at THE South Pole? (Yes, there really is a pole there, marking the spot!)

Not far from that pole is Coastal Environmental Systems' ASOS - improved weather station, which was purchased over a year ago, and installed last year by Scott Newell, a Coastal Engineer, during the S. Pole's summer (our winter).

The weather station is used for both science and aviation and is the first such station at the South Pole. It is part of the upgrade of the entire Polar station. The weather station is very similar to the FMQ-19 that Coastal is installing at 104 U.S. Air Force bases around the world. "The only alterations we had to make to the station were to insulate the electronics and barometer enclosure and insulate the ceilometer," commented Scott, "oh yeah – and we had to enter in some new coefficients for the temperature sensor, so it could calculate temperatures below -40° C...." (Good thing, too – note the temperature reading below!)

Coastal hand-picked the sensors and many of them were tried out at the S. Pole several winters ago, with excellent results. The electronics – Coastal's ZENO[®], has been used at both Poles for many years.

Just recently, the receiving part of the weather station was moved to the new location, and connected up to the Internet so anyone can view "LIVE" weather data from the South Pole. Yes – it's cold there – but check it out for yourself! It is a several step process, with the steps listed on the following page:



Figure 1 - Coastal's weather station can be seen to the left of the landing aircraft.



Figure 2 - The New South Pole Station

Story CONTINUED on next page...



...South Pole Weather, CONTINUED

First, go to this web site: <http://adds.aviationweather.gov/metars/index.php>

Second, enter the letters: **NZSP** into the box next to the map

(Ignore the fact that the S. Pole doesn't even show up on the map!)

Third and final, click the circle marked: "**Translated**" and hit the **submit** button.

(If you don't do this, you will still get the data but in METAR format.)

You should see something like the data given below: (BRRRRRR!!!!)

(Note: it is too cold for the algorithms to calculate a dew point).

METAR text: **NZSP 311750Z GRID11005KT 4800 IC BR SCT050 M63/ A2851**

Conditions at: NZSP observed 1750 UTC 31 March 2005

Temperature: -63.0°C (-81°F)

Dewpoint: missing

Pressure (altimeter): 28.51 inches Hg (965.5 mb)

Winds: from the ESE (110 degrees) at 6 MPH (5 knots; 2.6 m/s)

Visibility: 2.98 miles (4.80 km)

Ceiling: at least 12,000 feet AGL

Clouds: scattered clouds at 5000 feet AGL

Weather: GR BR IC (hail, mist, ice crystals)