

NOUS41 KWBC 201230  
PNSWSH

Technical Implementation Notice 11-55  
National Weather Service Headquarters Washington DC  
730 AM EST Tue Dec 20 2011

To:           Subscribers:  
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From:         Jay Lawrimore  
              Chief, Climate Analysis Branch  
              National Climatic Data Center

Subject: Soil Moisture and Soil Temperature Data Entering Hourly02 and  
Daily01 Products: Effective January 31, 2012

Effective Tuesday, January 31, 2012, at approximately 1500 Coordinated  
Universal Time (UTC), The National Climatic Data Center will begin  
populating the soil moisture and soil temperature fields for U.S. Climate  
Reference Network (USCRN) stations in the hourly02 (CRNH02) and daily01  
(CRND01) products. The U.S. Historical Climatology Network-Modernization  
(USHCN-M) station soil fields in these product columns will continue to  
report missing values since only USCRN stations make soil observations.

For both products the fields for average soil moisture at 5cm, 10cm, 20cm,  
50cm, and 100cm will each remain seven characters in length, and will  
present fractional volumetric water content to the nearest thousandth.  
Soil moisture fields with missing data will have the number -99.000.

For both products, the fields for soil temperature will remain seven  
characters long, presenting the soil temperature in degrees Celsius to the  
nearest tenth, with -9999.0 indicating a missing value.

The documentation for both products will also be revised so that the soil  
moisture column names and definitions will clearly indicate that the  
fields contain fractional volumetric water content.

If you have questions or feedback, please contact:

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