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Technical Implementation Notice 15-29
National Weather Service Headquarters Washington DC
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From: Jay Lawrimore, Chief, Dataset Branch
 National Centers for Environmental Information

Subject: Precipitation Calculation Algorithm Change for the
Hourly02 and Daily01 USCRN Products: Effective August 17, 2015

Effective August 17, 2015, at approximately 1500 Coordinated Universal Time (UTC), The National Centers for Environmental Information (NCEI) will implement a change in the precipitation calculation algorithm used to produce precipitation data for both the hourly02 (CRNH02) and daily01 (CRND01) products. These revisions will affect the reported precipitation for stations of the U.S. Climate Reference Network (USCRN) and associated legacy networks.

Presently, the precipitation calculation is performed by matching rates of rise of redundant measurements of depth in a weighing bucket rain gauge to ensure they agree to a required specification of 0.01 inches. The new calculation algorithm will be using a combination of redundant measurements of gauge depth that are inversely weighted according to their distance from the initial average of the gauge depth changes. The new approach yields slightly more total precipitation (+1.6 percent) with a more realistic distribution within event intervals.

The details of these changes will be reported in:

<ftp://ftp.ncdc.noaa.gov/pub/data/uscrn/products/daily01/New Precipitation Calculation.txt>

<ftp://ftp.ncdc.noaa.gov/pub/data/uscrn/products/hourly02/New Precipitation Calculation.txt>

There are no changes planned for the format or headers of the

hourly02 (CRNH02) and daily01 (CRND01) products.

If you have questions or feedback, please contact:

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