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PUBLIC INFORMATION STATEMENT...TECHNICAL IMPLEMENTATION NOTICE 99-11  
NATIONAL WEATHER SERVICE HEADQUARTERS WASHINGTON DC  
330 PM EDT FRI JUL 30 1999

TO: FAMILY OF SERVICES /FOS/ SUBSCRIBERS  
NOAA WEATHER WIRE SERVICE /NWS/ SUBSCRIBERS  
OTHER NWS CUSTOMERS...PARTNERS AND EMPLOYEES

FROM: LEROY SPAYD  
CHIEF...SCIENCE AND TRAINING CORE

SUBJECT: CHANGES TO THE NATIONAL CENTERS FOR ENVIRONMENTAL PREDICTION  
/NCEP/ RAPID UPDATE CYCLE ANALYSIS/FORECAST SYSTEM LAST MONDAY...JULY 26  
1999.

TWO FIXES WERE MADE TO FIX ERRORS IN THE MOISTURE FIELDS USED IN THE RAPID  
UPDATE CYCLE (RUC) BOUNDARIES. THESE CHANGES WERE IMPLEMENTED AT 1500  
COORDINATED UNIVERSAL TIME /UTC/ MONDAY...JULY 26 1999. THE PRIMARY ERROR  
IS THAT SATURATION VAPOR PRESSURE IS CALCULATED USING VIRTUAL TEMPERATURE  
RATHER THAN TEMPERATURE. THE SECOND ERROR IS THAT THE SATURATION VAPOR  
PRESSURE AT TEMPERATURES BELOW -15 DEGREES CELSIUS IS CALCULATED WITH  
RESPECT TO ICE INSTEAD OF WATER. THE IMPACT OF THE FIXES TO THESE ERRORS  
IS TO ELIMINATE MUCH OF THE ERRONEOUS PRECIPITATION ALONG THE RUC  
BOUNDARIES OVER WARM OCEANS AND SLIGHTLY REDUCE SOME OF THE EXCESSIVE  
AREAL COVERAGE OF RUC PRECIPITATION OVER WARM OCEANS.

EXAMPLES OF 12-HOUR RUC PRECIPITATION BEFORE AND AFTER THE CHANGE MAY BE  
VIEWED AT /USE LOWER CASE/:

[HTTP://MAPS.FSL.NOAA.GOV/RUC\\_BC\\_FIX.HTML](http://MAPS.FSL.NOAA.GOV/RUC_BC_FIX.HTML)

IF YOU HAVE QUESTIONS...CONTACT THE RUC WEB FORUM AT /USE LOWER CASE/:

[HTTP://MAPS.FSL.NOAA.GOV/FORUM/EVAL](http://MAPS.FSL.NOAA.GOV/FORUM/EVAL)

OR CONTACT:

STAN BENJAMIN  
NOAA/FORECAST SYSTEMS LABORATORY  
BOULDER COLORADO  
EMAIL: [BENJAMIN@FSL.NOAA.GOV](mailto:BENJAMIN@FSL.NOAA.GOV)  
PHONE: 303-497-6387

OR

GEOFF MANIKIN  
NATIONAL CENTERS FOR ENVIRONMENTAL PREDICTION  
ENVIRONMENTAL MODELING CENTER  
CAMP SPRINGS MARYLAND  
PHONE: 301-763-8000 EXT. 7263

NATIONAL TECHNICAL IMPLEMENTATION NOTICES ARE ONLINE AT /USE LOWER CASE/:

[HTTPS://WWW.WEATHER.GOV/NOTIFICATION/ARCHIVE](https://www.weather.gov/notification/archive)

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