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 /NWWS/ SUBSCRIBERS
OTHER NATIONAL WEATHER SERVICE /NWS/ CUSTOMERS 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

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

HTTP://MAPS.FSL.NOAA.GOV/FORUM/EVAL

OR CONTACT:

STAN BENJAMIN
NOAA/FORECAST SYSTEMS LABORATORY
BOULDER COLORADO
EMAIL: 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

END
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