

NOUS41 KWBC 251337
PNSWSH

PUBLIC INFO STATEMENT...TECHNICAL IMPLEMENTATION NOTICE 02-21
NATIONAL WEATHER SERVICE HEADQUARTERS WASHINGTON DC
940 AM EDT WED SEP 25 2002

TO: FAMILY OF SERVICES /FOS/ SUBSCRIBERS...NOAA WEATHER
WIRE SERVICE /NWS/ SUBSCRIBERS...EMERGENCY MANAGERS
WEATHER INFORMATION NETWORK /EMWIN/ SUBSCRIBERS...
OTHER NATIONAL WEATHER SERVICE /NWS/ CUSTOMERS AND
PARTNERS...NWS EMPLOYEES

FROM: HUA-LU PAN
CHIEF...GLOBAL CLIMATE AND WEATHER MODELING BRANCH
ENVIRONMENTAL MODELING CENTER /EMC/
NATIONAL CENTERS FOR ENVIRONMENTAL PREDICTION /NCEP/

SUBJECT: NEW METHOD FOR FINDING THE LOWEST TROPOSPHERIC FREEZING
LEVEL IN THE NCEP GLOBAL FORECAST SYSTEM...EFFECTIVE
OCTOBER 29 2002

NOTE: THE FOLLOWING CHANGES HAVE NO IMPACT ON NOAA WEATHER
WIRE SUBSCRIBERS

...THIS MESSAGE DETAILS FURTHER INFORMATION ON THE UPGRADE OF THE
NCEP GLOBAL FORECAST SYSTEM /GFS/ CURRENTLY SCHEDULED FOR
OCTOBER 29 2002. THE LAST MESSAGE ON THIS TOPIC WAS TECHNICAL
IMPLEMENTATION NOTICE 02-17... TRANSMITTED ON AUGUST 22 2002...

WHEN THE NCEP GLOBAL FORECAST SYSTEM IS UPGRADED...AN
ADDITIONAL CHANGE WILL BE MADE TO HOW THE FREEZING LEVEL
INFORMATION IS REPORTED IN THE OUTPUT GRIB FILES. CURRENTLY THE
LOWEST FREEZING LEVEL REPORTED IS LIMITED TO THE HEIGHT OF THE
MODEL TERRAIN. IN THE NEW VERSION OF THE GFS...IT WILL BE
POSSIBLE TO HAVE FREEZING LEVELS BELOW MODEL TERRAIN. FOR
SITUATIONS WHERE THE TROPOSPHERIC FREEZING LEVEL IS NOT ABOVE
GROUND...THE MODEL WILL EXTRAPOLATE DOWNWARD USING A 6.5 K/KM
LAPSE RATE TO FIND A THEORETICAL FREEZING LEVEL.

IF YOU HAVE ANY QUESTIONS ABOUT THESE CHANGES TO THE NCEP GLOBAL
FORECAST SYSTEM PLEASE CONTACT:

HUA-LU PAN
NCEP/CAMP SPRINGS MARYLAND
PHONE: 301-763-8000 EXT. 7234
E-MAIL: Hualu.Pan@noaa.gov

THIS AND OTHER NWS TECHNICAL IMPLEMENTATION NOTICES ARE AVAILABLE
ON THE INTERNET AT /USE LOWER CASE LETTERS/:

<http://www.nws.noaa.gov/om/notif.htm>

\$\$
END
NNNN