

NOUS41 KWBC 222030  
PNSWSH

PUBLIC INFORMATION STATEMENT...TECHNICAL IMPLEMENTATION NOTICE 02-17  
NATIONAL WEATHER SERVICE HEADQUARTERS WASHINGTON DC  
430 PM EDT THU AUG 22 2002

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

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

JOHN WARD  
CHIEF...PRODUCTION MANAGEMENT BRANCH  
NCEP CENTRAL OPERATIONS  
NATIONAL CENTERS FOR ENVIRONMENTAL PREDICTION

SUBJECT: RESCHEDULED CHANGES TO THE HORIZONTAL AND VERTICAL RESOLUTIONS OF  
THE NCEP GLOBAL FORECAST SYSTEM...NOW EFFECTIVE OCTOBER 29 2002 AT 1200  
UTC

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

ON OCTOBER 29 2002 AT 1200 COORDINATED UNIVERSAL TIME /UTC/...THE NATIONAL  
CENTERS FOR ENVIRONMENTAL PREDICTION /NCEP/ WILL CHANGE THE HORIZONTAL AND  
VERTICAL RESOLUTIONS OF THE ANALYSIS AND FORECAST SUITES IN ITS GLOBAL  
FORECAST SYSTEM /GFS/. THE CHANGE IN RESOLUTION IS THE FINAL STEP IN A  
CONSOLIDATION OF GLOBAL MODEL JOBS...WHICH PREVIOUSLY INCLUDED ELIMINATION  
OF THE MEDIUM RANGE FORECAST /MRF/ RUN...ON APRIL 24 2002...AND THE  
GENERATION OF THE FOUR PER DAY GFS /FORMERLY KNOWN AS THE AVN/ RUNS OUT TO  
16 DAYS...ON MARCH 5 2002.

THE GFS WILL INCREASE ITS USE OF SATELLITE DATA...AND WILL CHANGE ITS  
CURRENT T170...42-LAYER /T170L42/ RESOLUTION TO T254L64...HORIZONTAL  
RESOLUTION CHANGES FROM 75 KM TO 55 KM...VERTICAL RESOLUTION CHANGES  
PRIMARILY IN THE STRATOSPHERE...WITH MODEL TOP RAISED FROM 2 HPA TO 0.2  
HPA.

FORECAST MODEL SUITE...CURRENTLY T170L42 /0-180 HOURS/ AND T62L28 /180-384  
HOURS/...WILL BECOME A DOWNWARD CASCADE OF RESOLUTIONS FOR SHORT MEDIUM  
AND LONG RANGE FORECASTS...T254L64 /0-84 HOURS/...T170L42 /84-180 HOURS/  
AND T126L28 /180-384 HOURS/.

USERS CAN EXPECT TO SEE SLIGHT IMPROVEMENTS IN MOST FORECASTS. THE  
TROPICS MAY BE SLIGHTLY MORE NOISY. MODEL BIASES AND OTHER  
CHARACTERISTICS WILL REMAIN LARGELY UNCHANGED. IT IS ANTICIPATED THAT THE  
HIGHER RESOLUTION DURING THE FIRST 84 HOURS OF THE FORECAST WILL IMPROVE

MODELED DETAILS OF FRONTS...JET STREAMS...PRECIPITATION AND TROPICAL STORMS...WHILE THE HIGHER RESOLUTION BEYOND 180 HOURS WILL IMPROVE FORECASTS OF TRANSIENTS...THEREBY IMPROVING PREDICTIONS OF REGIME CHANGES.

THE IMPACT OF THIS CHANGE ON THE NCEP PRODUCTION SCHEDULE WILL BE AS FOLLOWS:

- GFS 120 HOUR PRODUCTS DELAYED 21 MINUTES
- GFS 384 HOUR PRODUCTS DELAYED 21 MINUTES
- GEOPHYSICAL FLUID DYNAMICS LABORATORY /GFDL/ HURRICANE MODEL DELAYED 25-30 MINUTES
- WAVE MODEL PRODUCTS DELAYED 25 MINUTES
- AVN MODEL OUTPUT STATISTICS /MOS/ PRODUCTS DELAYED 21 MINUTES
- 1200 UTC GLOBAL ENSEMBLE PRODUCTS DELAYED 25 MINUTES

WHEN THE NEXT CENTRAL COMPUTER SYSTEM BECOMES OPERATIONAL BY THE THIRD QUARTER /APRIL...MAY AND JUNE/ OF FISCAL YEAR 2003...THE NCEP PRODUCTION SCHEDULE WOULD RETURN TO ITS CURRENT CONFIGURATION.

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

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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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