

NOUS41 KWBC 111500  
PNSWSH

TECHNICAL IMPLEMENTATION NOTICE 05-18  
NATIONAL WEATHER SERVICE HEADQUARTERS WASHINGTON DC  
1000 AM EST FRI MAR 11 2005

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

FROM: PAUL HIRSCHBERG  
CHIEF...SCIENCE PLANS BRANCH  
OFFICE OF SCIENCE AND TECHNOLOGY

SUBJECT: ADDITIONAL GLOBAL FORECAST SYSTEM DATA AVAILABLE: EFFECTIVE MARCH  
15 2005

EFFECTIVE MARCH 15 2005 BEGINNING AT THE 1200 COORDINATED UNIVERSAL TIME  
/UTC/ RUN...THE NATIONAL CENTERS FOR ENVIRONMENTAL PREDICTION /NCEP/  
ENVIRONMENTAL MODELING CENTER /EMC/ WILL BEGIN PROVIDING GLOBAL FORECAST  
SYSTEM /GFS/ MODEL DATA AT 20 ADDITIONAL FORECAST INTERVALS FROM 126 TO  
240 HOURS. SEE TABLE 1 FOR A LIST OF THE SPECIFIC PROJECTIONS BEING  
ADDED.

THESE ADDITIONAL PROJECTIONS ARE NEEDED TO CORRECT A DATA DEFICIENCY  
WITHIN AWIPS CRITICAL TO NWS FORECAST OPERATIONS. THE URGENT OPERATIONAL  
NEED FOR THESE DATA IS THE REASON FOR THE SHORT ADVANCE LEAD TIME  
ASSOCIATED WITH THIS CHANGE. ADVANCED WEATHER INTERACTIVE PROCESSING  
SYSTEM /AWIPS/ USERS WILL BE ABLE TO USE THIS DATA IMMEDIATELY UPON  
RECEIPT. EXTERNAL CUSTOMERS AND PARTNERS CAN MAKE THE NECESSARY CHANGES  
TO PROCESS THE ADDITIONAL PROJECTIONS AT THEIR CONVENIENCE.

GRIDDED DATA WILL BE AVAILABLE FOR THE CONTIGUOUS UNITED STATES /CONUS/ ON  
GRID 211 FOR THE FOLLOWING PARAMETERS FOR THE NEW PROJECTIONS /SEE TABLE  
1/:

SURFACE PRESSURE  
500 MB ABSOLUTE VORTICITY  
LAYER RELATIVE HUMIDITY /0.44-1.00 SIGMA LEVEL/  
850 MB VERTICAL VELOCITY  
700 MB VERTICAL VELOCITY  
500 MB VERTICAL VELOCITY

THESE PRODUCTS WILL BE AVAILABLE ON AWIPS/NOAAPORT DAILY FROM THE  
0000...0600...1200 AND 1800 UTC GFS MODEL RUNS. SEE TABLE 2 FOR THE  
SPECIFIC LIST OF NEW WORLD METEOROLOGICAL ORGANIZATION /WMO/ HEADINGS.

TABLE 1. THE 20 ADDITIONAL FORECAST PROJECTIONS IN HOURS FROM MODEL  
INITIALIZATION TIME ARE:

126 156 186 216  
 132 162 192 222  
 138 168 198 228  
 144 174 204 234  
 150 180 210 240

TABLE 2. WMO HEADERS THAT WILL BE ADDED: EFFECTIVE MARCH 15 2005 AT 1530  
UTC:

| WMO HEADING | PRODUCT DESCRIPTION          |
|-------------|------------------------------|
| -----       | -----                        |
| YCQP50 KWBC | ABSOLUTE VORTICITY AT 500 MB |
| YCQQ50 KWBC | ABSOLUTE VORTICITY AT 500 MB |
| YCQR50 KWBC | ABSOLUTE VORTICITY AT 500 MB |
| YCQS50 KWBC | ABSOLUTE VORTICITY AT 500 MB |
| YCQT50 KWBC | ABSOLUTE VORTICITY AT 500 MB |
| YCQU50 KWBC | ABSOLUTE VORTICITY AT 500 MB |
| YCQV50 KWBC | ABSOLUTE VORTICITY AT 500 MB |
| YCQW50 KWBC | ABSOLUTE VORTICITY AT 500 MB |
| YCQX50 KWBC | ABSOLUTE VORTICITY AT 500 MB |
| YCQY50 KWBC | ABSOLUTE VORTICITY AT 500 MB |
| ZCQZ50 KWBC | ABSOLUTE VORTICITY AT 500 MB |
| YOQP85 KWBC | VERTICAL VELOCITY AT 850 MB  |
| YOQQ85 KWBC | VERTICAL VELOCITY AT 850 MB  |
| YOQR85 KWBC | VERTICAL VELOCITY AT 850 MB  |
| YOQS85 KWBC | VERTICAL VELOCITY AT 850 MB  |
| YOQT85 KWBC | VERTICAL VELOCITY AT 850 MB  |
| YOQU85 KWBC | VERTICAL VELOCITY AT 850 MB  |
| YOQV85 KWBC | VERTICAL VELOCITY AT 850 MB  |
| YOQW85 KWBC | VERTICAL VELOCITY AT 850 MB  |
| YOQX85 KWBC | VERTICAL VELOCITY AT 850 MB  |
| YOQY85 KWBC | VERTICAL VELOCITY AT 850 MB  |
| ZOQZ85 KWBC | VERTICAL VELOCITY AT 850 MB  |
| YOQP70 KWBC | VERTICAL VELOCITY AT 700 MB  |
| YOQQ70 KWBC | VERTICAL VELOCITY AT 700 MB  |
| YOQR70 KWBC | VERTICAL VELOCITY AT 700 MB  |
| YOQS70 KWBC | VERTICAL VELOCITY AT 700 MB  |
| YOQT70 KWBC | VERTICAL VELOCITY AT 700 MB  |
| YOQU70 KWBC | VERTICAL VELOCITY AT 700 MB  |
| YOQV70 KWBC | VERTICAL VELOCITY AT 700 MB  |
| YOQW70 KWBC | VERTICAL VELOCITY AT 700 MB  |
| YOQX70 KWBC | VERTICAL VELOCITY AT 700 MB  |
| YOQY70 KWBC | VERTICAL VELOCITY AT 700 MB  |
| ZOQZ70 KWBC | VERTICAL VELOCITY AT 700 MB  |
| YOQP50 KWBC | VERTICAL VELOCITY AT 500 MB  |
| YOQQ50 KWBC | VERTICAL VELOCITY AT 500 MB  |
| YOQR50 KWBC | VERTICAL VELOCITY AT 500 MB  |
| YOQS50 KWBC | VERTICAL VELOCITY AT 500 MB  |
| YOQT50 KWBC | VERTICAL VELOCITY AT 500 MB  |
| YOQU50 KWBC | VERTICAL VELOCITY AT 500 MB  |
| YOQV50 KWBC | VERTICAL VELOCITY AT 500 MB  |

YOQW50 KWBC VERTICAL VELOCITY AT 500 MB  
 YOQX50 KWBC VERTICAL VELOCITY AT 500 MB  
 YOQY50 KWBC VERTICAL VELOCITY AT 500 MB  
 ZOQZ50 KWBC VERTICAL VELOCITY AT 500 MB  
 YPQP98 KWBC SURFACE PRESSURE  
 YPQQ98 KWBC SURFACE PRESSURE  
 YPQR98 KWBC SURFACE PRESSURE  
 YPQS98 KWBC SURFACE PRESSURE  
 YPQT98 KWBC SURFACE PRESSURE  
 YPQU98 KWBC SURFACE PRESSURE  
 YPQV98 KWBC SURFACE PRESSURE  
 YPQW98 KWBC SURFACE PRESSURE  
 YPQX98 KWBC SURFACE PRESSURE  
 YPQY98 KWBC SURFACE PRESSURE  
 ZPQZ98 KWBC SURFACE PRESSURE  
 YRQP00 KWBC LAYER RELATIVE HUMIDITY/0.44-1.00 SIGMA LEVEL  
 YRQQ00 KWBC LAYER RELATIVE HUMIDITY/0.44-1.00 SIGMA LEVEL  
 YRQR00 KWBC LAYER RELATIVE HUMIDITY/0.44-1.00 SIGMA LEVEL  
 YRQS00 KWBC LAYER RELATIVE HUMIDITY/0.44-1.00 SIGMA LEVEL  
 YRQT00 KWBC LAYER RELATIVE HUMIDITY/0.44-1.00 SIGMA LEVEL  
 YRQU00 KWBC LAYER RELATIVE HUMIDITY/0.44-1.00 SIGMA LEVEL  
 YRQV00 KWBC LAYER RELATIVE HUMIDITY/0.44-1.00 SIGMA LEVEL  
 YRQW00 KWBC LAYER RELATIVE HUMIDITY/0.44-1.00 SIGMA LEVEL  
 YRQX00 KWBC LAYER RELATIVE HUMIDITY/0.44-1.00 SIGMA LEVEL  
 YRQY00 KWBC LAYER RELATIVE HUMIDITY/0.44-1.00 SIGMA LEVEL  
 ZRQZ00 KWBC LAYER RELATIVE HUMIDITY/0.44-1.00 SIGMA LEVEL

NOTE: FOURTH CHARACTER OF THE WMO HEADING INDICATES THE FORECAST PROJECTION AS SHOWN BELOW:

P = 132...Q = 144...R = 156...S = 168...T = 180...U = 192...V = 204...  
 W = 216...X = 228...Y = 240...  
 Z = 126...138...150...162...174...186...198...210...222 AND 234 HOURS.

IF YOU HAVE ANY QUESTIONS CONCERNING THESE PRODUCTS...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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