NOUS41 KWBC 201503
PNSWSH

TECHNICAL IMPLEMENTATION NOTICE 07-57
NATIONAL WEATHER SERVICE HEADQUARTERS WASHINGTON DC
1103 AM EDT MON AUG 20 2007

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

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


EFFECTIVE TUESDAY SEPTEMBER 18 2007...AT 1200 COORDINATED UNIVERSAL TIME /UTC/...THE NATIONAL CENTERS FOR ENVIRONMENTAL PREDICTION /NCEP/ WILL UPGRADE THE CMAQ MODEL RUN IN ITS OPERATIONAL PRODUCTION SUITE. THIS UPGRADE WILL PROVIDE THE FOLLOWING CHANGES TO THIS SYSTEM:

- THE OPERATIONAL CMAQ DOMAIN WILL BE EXPANDED TO COVER THE ENTIRE CONTINENTAL U.S. /CONUS/.
- IMPLEMENT THE COMMON NONHYDROSTATIC MESOSCALE MODEL /NMM/ VERTICAL COORDINATE INTO CMAQ.
- UPDATE NATIONAL EMISSION INVENTORY FOR CALIFORNIA WITH 2002 ESTIMATES.
- UPDATE ALL OTHER POINT...AREA AND MOBILE SOURCE EMISSIONS.
- USING THE DEPARTMENT OF ENERGY ANNUAL ENERGY OUTLOOK FOR 2007...IMPLEMENT THE ASYMMETRIC CONVECTIVE MODEL DEEP CONVECTIVE MIXING INTO CMAQ TO REDUCE INTRUSION OF STRATOSPHERIC AIR INTO THE TROPOSPHERE FROM DEEP CONVECTION.
- IMPLEMENT THE ASYMMETRIC CONVECTIVE MODEL-2 BOUNDARY LAYER MIXING SCHEME INTO CMAQ.
- REMOVE THE USE OF GFS OZONE PREDICTION FOR CMAQ TOP LATERAL BOUNDARY CONDITIONS /THIS WILL BE REIMPLEMENTED AT A LATER DATE ONCE THE OVER PREDICTION BIAS CAUSED BY THESE SPECIFICATIONS IS CORRECTED/.

ONCE OPERATIONAL...THE OUTPUT FROM THIS ENHANCED PROCESSING WILL BE AVAILABLE FROM THE NWS...NATIONAL DIGITAL GUIDANCE DATABASE /NDGD/ SERVER LOCATED AT /USE LOWER CASE EXCEPT FOR SL...ST...DF...DC AND AR/:

HTTPS://WEATHER.NOAA.GOV/PUB/SL.US008001/ST.OPNL/DF.GR2/DC.NDGD/AR.CONUS/

OUTPUT FROM THE NEW CMAQ MODEL SYSTEM IS CURRENTLY BEING GENERATED DAILY AT NCEP. THESE DATA CAN BE OBTAINED FROM THE EXPERIMENTAL NDGD SERVER LOCATED AT /USE LOWER CASE EXCEPT FOR SL...ST...DF...DC AND AR/:

HTTPS://WEATHER.NOAA.GOV/PUB/SL.US008001/ST.EXPR/DF.GR2/DC.NDGD/AR.CONUS/
MORE INFORMATION ON NCEP MODEL CHANGES CAN BE FOUND AT THE LINK BELOW /USE LOWER CASE/:

HTTP://WWW.NCO.NCEP.NOAA.GOV/PMB/CHANGES

IF YOU HAVE ANY QUESTIONS...PLEASE CONTACT:

JOE CARR
NCEP...PRODUCTION MANAGEMENT BRANCH
CAMP SPRINGS MARYLAND
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EMAIL: JOE.CARR@NOAA.GOV

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

HTTPS://WWW.WEATHER.GOV/NOTIFICATION/ARCHIVE

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