NOUS41 KWBC 141245 PNSWSH

TECHNICAL IMPLEMENTATION NOTICE 07-40 NATIONAL WEATHER SERVICE HEADQUARTERS WASHINGTON DC 845 AM EDT THU JUN 14 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

SUBJECT: NATIONAL CENTERS FOR ENVIRONMENTAL PREDICTION /NCEP/ TO IMPLEMENT HURRICANE WEATHER RESEARCH AND FORECAST /HWRF/ MODEL: EFFECTIVE JUNE 19 2007

EFFECTIVE TUESDAY JUNE 19 2007...BEGINNING WITH THE 1200 COORDINATED UNIVERSAL TIME /UTC/ RUN...NCEP WILL BEGIN RUNNING A NEW HURRICANE MODEL...THE HWRF SYSTEM...IN ADDITION TO THE GEOPHYSICAL FLUID DYNAMICS LABORATORY /GFDL/ HURRICANE MODEL.

THE HWRF IS THE NOAA NEXT GENERATION OPERATIONAL HURRICANE FORECAST SYSTEM. IT HAS BEEN DEVELOPED TO PROVIDE ADVANCED HURRICANE GUIDANCE TO THE NATIONAL HURRICANE CENTER /NHC/ AT THE TROPICAL PREDICTION CENTER /TPC/. IT WILL PROVIDE FOR CONTINUED IMPROVEMENT OF TRACK FORECASTS AND IMPROVED FORECASTS OF INTENSITY AND STRUCTURE FORECASTS.

THE CODING INFRASTRUCTURE OF THE HWRF FOLLOWS THE 2000 NWS STRATEGIC PLAN WHICH CALLED FOR THE USE OF A COMMUNITY MODEL - I.E...THE WEATHER RESEARCH AND FORECASTING /WRF/ MODELING INFRASTRUCTURE. THE HWRF SHARES THE SAME DYNAMIC CORE AS THE NCEP MIDLATITUDE MESOSCALE WRF BASED SYSTEM...THE NORTH AMERICAN MODEL /NAM/...BUT IS SPECIFICALLY DESIGNED FOR THE HURRICANE PROBLEM TO INCLUDE AN ADVANCED ANALYSES OF THE HURRICANE CORE CIRCULATION...A MOVABLE NESTED GRID CONFIGURATION SIMILAR TO THE GFDL MODEL AND COUPLING TO THE OCEAN.

ON THE ABOVE IMPLEMENTATION DATE...NCEP CENTRAL OPERATIONS WILL BEGIN TO PROVIDE OUTPUT FROM THE HWRF MODEL ON ITS FILE TRANSFER PROTOCOL /FTP/ SERVER. USERS MAY ACCESS THESE DATA FROM THE LINK BELOW /USE LOWER CASE/:

FTP://FTPPRD.NCEP.NOAA.GOV/PUB/DATA/COM/HUR/PROD/HWRF.YYYYMMDD

IF YOU HAVE ANY QUESTIONS OR COMMENTS...PLEASE CONTACT:

NAOMI SURGI NCEP...ENVIRONMENTAL MODELING CENTER CAMP SPRINGS MARYLAND PHONE: 301-763-8000 X 7285 EMAIL: NAOMI.SURGI@NOAA.GOV

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

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

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