

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 /NWS/ 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.YYYMMDD](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](mailto:NAOMI.SURGI@NOAA.GOV)

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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