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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

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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