

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 NATIONAL WEATHER SERVICE
/NWS/ CUSTOMERS AND PARTNERS ...NWS EMPLOYEES

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

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 FTP SERVER.
USERS MAY ACCESS THESE DATA FROM THE LINK BELOW /USE LOWER CASE
LETTERS/:

[FTP://FTPPRD.NCEP.NOAA.GOV/PUB/DATA/COM/HUR/PROD/HWRF.YYYYMMDD](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 X7285
EMAIL: NAOMI.SURGI@NOAA.GOV

THIS AND OTHER NWS TECHNICAL IMPLEMENTATION NOTICES ARE AVAILABLE
ONLINE AT /USE LOWER CASE LETTERS/:

[HTTP://WWW.NWS.NOAA.GOV/OM.NOTIF.HTM](http://www.nws.noaa.gov/om/notif.htm)

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