

NOUS41 KWBC 151807  
PNSWSH

TECHNICAL IMPLEMENTATION NOTICE 08-56  
NATIONAL WEATHER SERVICE HEADQUARTERS WASHINGTON DC  
205 PM EDT TUE JUL 15 2008

TO: SUBSCRIBERS:  
-FAMILY OF SERVICES  
-NOAAPORT  
-EMERGENCY MANAGERS WEATHER INFORMATION NETWORK  
OTHER NWS PARTNERS...USERS AND EMPLOYEES

FROM: JASON TUELL  
CHIEF...SCIENCE PLANS BRANCH  
OFFICE OF SCIENCE AND TECHNOLOGY

SUBJECT: ADDITION OF EXPERIMENTAL NCEP RTMA GRIDS FOR HAWAII AND  
PUERTO RICO AREAS: EFFECTIVE SEPTEMBER 23 2008

EFFECTIVE TUESDAY SEPTEMBER 23 2008...AT APPROXIMATELY 1500  
COORDINATED UNIVERSAL TIME /UTC/...THE NATIONAL CENTERS FOR  
ENVIRONMENTAL PREDICTION /NCEP/ WILL BEGIN DISSEMINATING REAL  
TIME MESOSCALE ANALYSIS /RTMA/ PRODUCTS FOR THE HAWAII AND PUERTO  
RICO AREAS. THESE EXPERIMENTAL PRODUCTS WILL BE PROVIDED VIA  
NOAAPORT AND THE NATIONAL DIGITAL GUIDANCE DATABASE /NDGD/.

RTMA CONSISTS OF A SET OF GRIDDED SURFACE ANALYSES CORRESPONDING  
TO THE PARAMETERS LISTED BELOW IN TABLES 1 AND 2. SIMILAR TO THE  
CONUS AND ALASKA RTMA PRODUCTS ALREADY PROVIDED VIA NOAAPORT AND  
NDGD...THESE NEW HAWAII AND PUERTO RICO AREA GRIDS ARE ALSO  
INTENDED FOR DISTRIBUTION IN NEAR REAL TIME. THUS...IN THE  
GENERATION OF THESE GRIDS...NCEP EXPLOITS AS MUCH SATELLITE...  
ASOS...MESONET...AND OTHER SENSOR DATA AS CAN BE ACQUIRED IN NEAR  
REAL TIME. THE SENSOR DATA ARE ANALYZED AND INTERPOLATED TO  
REGIONAL GRIDS AND FORMATTED IN GRIB2. BOTH THE HAWAII AND PUERTO  
RICO RTMA PRODUCTS WILL BE PROVIDED ON 2.5 KM HORIZONTAL  
RESOLUTION GRIDS.

NCEP WILL GENERATE THE HAWAII AND PUERTO RICO RTMA GRIDS EACH  
HOUR. EACH HOURLY GRID SET WILL HAVE A VALID TIME CORRESPONDING  
TO AN EVEN HOUR /I.E. 0000...0100...0200...THRU 2300/. THE RTMA  
GRIDS WILL BE DISSEMINATED VIA NOAAPORT AND AVAILABLE ON NDGD AT  
APPROXIMATELY 45 MINUTES AFTER THE VALID HOUR.

THE HOURLY DATA VOLUME WILL BE APPROXIMATELY 1.3 MEGABYTES /MB/  
AND THE DAILY VOLUME WILL BE APPROXIMATELY 31.2 MB.

ALL OF THE GRIDS LISTED IN TABLES 1 AND 2 WILL BE CARRIED ON  
NOAAPORT. ALL OF THE SAME GRIDS...EXCEPT FOR U AND V WINDS...WILL  
BE AVAILABLE IN NDGD.

TABLE 1: WMO HEADINGS ASSIGNED TO THE HAWAII AREA RTMA GRIDS

WMO HEADING RTMA PARAMETERS

LTHA98 KWBR: TEMPERATURE ANALYSIS  
LTHA98 KWBR: TEMPERATURE ANALYSIS UNCERTAINTY  
LRHA98 KWBR: DEWPOINT TEMPERATURE ANALYSIS  
LRHA98 KWBR: DEWPOINT TEMPERATURE ANALYSIS UNCERTAINTY  
LNHA98 KWBR: WIND SPEED ANALYSIS  
LNHA98 KWBR: WIND SPEED ANALYSIS UNCERTAINTY  
LNHA98 KWBR: WIND DIRECTION ANALYSIS  
LNHA98 KWBR: WIND DIRECTION ANALYSIS UNCERTAINTY  
LUHA98 KWBR: U WIND COMPONENT ANALYSIS /NOAAPORT ONLY/  
LVHA98 KWBR: V WIND COMPONENT ANALYSIS /NOAAPORT ONLY/

TABLE 2: WMO HEADINGS ASSIGNED TO THE PUERTO RICO AREA RTMA GRIDS

WMO HEADING RTMA PARAMETERS

LTCA98 KWBR: TEMPERATURE ANALYSIS  
LTCA98 KWBR: TEMPERATURE ANALYSIS UNCERTAINTY  
LRCA98 KWBR: DEWPOINT TEMPERATURE ANALYSIS  
LRCA98 KWBR: DEWPOINT TEMPERATURE ANALYSIS UNCERTAINTY  
LNCA98 KWBR: WIND SPEED ANALYSIS  
LNCA98 KWBR: WIND SPEED ANALYSIS UNCERTAINTY  
LNCA98 KWBR: WIND DIRECTION ANALYSIS  
LNCA98 KWBR: WIND DIRECTION ANALYSIS UNCERTAINTY  
LUCA98 KWBR: U WIND COMPONENT ANALYSIS /NOAAPORT ONLY/  
LVCA98 KWBR: V WIND COMPONENT ANALYSIS /NOAAPORT ONLY/

WITHIN NDGD...THE HAWAII GRIDS WILL BE PLACED IN SUBDIRECTORIES OF /USE LOWER CASE LETTERS EXCEPT FOR SL...ST...DF...DC...GT...AND AR/:

FTP://TGFTP.NWS.NOAA.GOV/SL.US008001/ST.EXPR/DF.GR2/DC.NDGD/GT.RTMA/AR.HAWAII

THE PUERTO RICO GRIDS WILL BE PLACED IN SUBDIRECTORIES OF /USE LOWER CASE LETTERS EXCEPT FOR SL...ST...DF...DC...GT...AND AR/:

FTP://TGFTP.NWS.NOAA.GOV/SL.US008001/ST.EXPR/DF.GR2/DC.NDGD/GT.RTMA/AR.PUERTORI

BENEATH THE AR.HAWAII AND AR.PUERTORI DIRECTORIES ARE 24 SUBDIRECTORIES...ONE FOR EACH HOUR OF THE DAY: RT.00...RT.01...RT.02...THROUGH RT.23. EACH HOURLY SUBDIRECTORY WILL STORE THE RTMA FILES FOR THAT NOMINAL HOUR. THE RTMA FILES IN EACH HOURLY SUBDIRECTORY WILL BE NAMED AS SHOWN IN TABLE 3 /USE LOWER CASE/:

TABLE 3: NDGD FILE NAMES FOR HAWAII AND PUERTO RICO AREA RTMA GRIDS

FILE NAME RTMA PARAMETER

DS.TEMP.BIN TEMPERATURE ANALYSIS  
DS.UTEMP.BIN TEMPERATURE ANALYSIS UNCERTAINTY  
DS.TD.BIN DEWPOINT TEMPERATURE ANALYSIS  
DS.UTD.BIN DEWPOINT TEMPERATURE ANALYSIS UNCERTAINTY  
DS.WSPD.BIN WIND SPEED ANALYSIS  
DS.UWSPD.BIN WIND SPEED ANALYSIS UNCERTAINTY  
DS.WDIR.BIN WIND DIRECTION ANALYSIS  
DS.UWDIR.BIN WIND DIRECTION ANALYSIS UNCERTAINTY

THE RESIDENCE TIME OF NDGD RTMA FILES WILL BE APPROXIMATELY ONE DAY. EACH HOUR NEW FILES WILL BE WRITTEN TO THE MOST RECENT HOURLY DIRECTORY...OVERWRITING THE FILES CORRESPONDING TO THE SAME HOUR ON THE PREVIOUS DAY.

NCEP HAS ESTABLISHED THE FOLLOWING WEB SITES FOR PREVIEWING UP-TO-DATE HAWAII AND PUERTO RICO RTMA /USE LOWER CASE/:

[HTTP://WWW.EMC.NCEP.NOAA.GOV/MMB/RTMA/HAWAII/](http://www.emc.ncep.noaa.gov/mb/rtma/hawaii/)

[HTTP://WWW.EMC.NCEP.NOAA.GOV/MMB/RTMA/PR/](http://www.emc.ncep.noaa.gov/mb/rtma/pr/)

IF YOU HAVE QUESTIONS ABOUT THE TECHNICAL CONTENT OR GENERATION OF THESE PRODUCTS...PLEASE CONTACT:

GEOFF DIMEGO  
NWS...NCEP ENVIRONMENTAL MODELING CENTER  
CAMP SPRINGS MARYLAND  
PHONE: 301 763 8000 EXT 7221  
EMAIL: GEOFF.DIMEGO@NOAA.GOV

IF YOU HAVE QUESTIONS ABOUT THE NCEP DATA FLOW ASPECTS OF THESE DATA SETS...PLEASE CONTACT THE NCEP/NCO/PMB DATAFLOW HELP DESK EMAIL ADDRESS BELOW.

EMAIL: NCEP.PMB.DATAFLOW@NOAA.GOV

IF YOU HAVE QUESTIONS ABOUT THE NOAAPORT ACTIVATION OR DATA FLOW OF THESE PRODUCTS...PLEASE CONTACT:

BRIAN GOCKEL  
NWS...OFFICE OF SCIENCE AND TECHNOLOGY  
SILVER SPRING MARYLAND  
PHONE: 301 713 0304 EXT 158  
EMAIL: BRIAN.GOCKEL@NOAA.GOV

NCEP WILL CONTINUE TO REFINE THE RTMA PRODUCTS. USERS CAN PROVIDE FEEDBACK ABOUT THE EXPERIMENTAL HAWAII RTMA AT THE FOLLOWING WEB SITE /USE LOWER CASE EXCEPT FOR RTMA AND HI/:

[HTTP://WWW.WEATHER.GOV/SURVEY/NWS-SURVEY.PHP?CODE=RTMA-HI](http://www.weather.gov/survey/nws-survey.php?code=rtma-hi)

A 60-DAY PUBLIC COMMENT PERIOD WILL BEGIN ON THE DATE OF

ACTIVATION AND END ON NOVEMBER 24 2008. USERS CAN PROVIDE  
FEEDBACK ABOUT THE EXPERIMENTAL PUERTO RICO RTMA AT THE FOLLOWING  
WEB SITE /USE LOWER CASE EXCEPT FOR RTMA AND PR/:

[HTTP://WWW.WEATHER.GOV/SURVEY/NWS-SURVEY.PHP?CODE=RTMA-PR](http://www.weather.gov/survey/nws-survey.php?code=rtma-pr)

THIS NOTICE AND OTHER 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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