NOUS41 KWBC 112007 CAA
PNSWSH

TECHNICAL IMPLEMENTATION NOTICE 07-90 CORRECTED
NATIONAL WEATHER SERVICE HEADQUARTERS WASHINGTON DC
405 PM EDT TUE MAR 11 2008

TO: FAMILY OF SERVICES /FOS/ SUBSCRIBERS
NOAAPORT SUBSCRIBERS
OTHER NWS PARTNERS
OTHER USERS AND NWS EMPLOYEES

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

SUBJECT: CORRECTED: ADDITION OF NCEP RTMA GRIDS FOR THE ALASKA REGION: EFFECTIVE MARCH 13 2008

REFER TO: TECHNICAL IMPLEMENTATION NOTICE /TIN/ 07-90 TRANSMITTED ON NOVEMBER 13 2007

CORRECTED TO ADD FEEDBACK LINK AT BOTTOM OF THIS NOTICE.

AMENDED TO DELAY THE IMPLEMENTATION DATE OF REAL TIME MESOSCALE ANALYSIS /RTMA/ ADDITION TO THE NATIONAL DIGITAL GUIDANCE DATABASE /NDGD/ FROM JANUARY 22 2008 TO MARCH 13 2008. ADDITION OF RTMA TO NOAAPORT PROCEEDED ON JANUARY 24 2008.

EFFECTIVE THURSDAY MARCH 13 2008...AT APPROXIMATELY 1500 COORDINATED UNIVERSAL TIME /UTC/...THE NATIONAL CENTERS FOR ENVIRONMENTAL PREDICTION /NCEP/ WILL BEGIN DISSEMINATING RTMA FOR THE ALASKA REGION VIA NDGD.

RTMA FOR ALASKA CONSISTS OF A SET OF GRIDDED SURFACE ANALYSES CORRESPONDING TO THE 10 PARAMETERS LISTED BELOW IN TABLE 1. SIMILAR TO THE CONUS RTMA PRODUCTS ALREADY PROVIDED VIA NOAAPORT AND NDGD...THESE NEW ALASKA REGION GRIDS ARE ALSO INTENDED FOR DISTRIBUTION IN NEAR REAL TIME. THUS IN THE GENERATION OF THESE GRIDS...NCEP INGESTS AS MUCH SATELLITE...RADAR...ASOS... MESONET ...AND OTHER SENSOR DATA AS IT CAN ACQUIRE IN NEAR REAL TIME. THE SENSOR DATA ARE ANALYZED AND INTERPOLATED TO A 6 KM RESOLUTION ALASKA REGION POLAR STEREOGRAPHIC GRID AND ENCODED IN GRIB2.

NCEP GENERATES ONE SET OF ALASKA REGION RTMA GRIDS EACH HOUR. EACH HOURLY GRID HAS A VALID TIME CORRESPONDING TO AN EVEN HOUR /I.E. 0000...0100...0200...THRU 2300/. THE ALASKA RTMA GRIDS WILL BECOME AVAILABLE ON NDGD AT APPROXIMATELY 45 MINUTES AFTER THE VALID TIME HOUR.

THE HOURLY DATA VOLUME IS APPROXIMATELY 6 MEGABYTES /MB/. THE DAILY DATA VOLUME IS APPROXIMATELY 144 MB.

ALL OF THE GRIDS LISTED IN TABLE 1 ARE ALREADY CARRIED ON NOAAPORT.

TABLE 1: WMO HEADINGS ASSIGNED TO THE ALASKA REGION RTMA GRIDS

WMO HEADING RTMA PARAMETERS

LTAA98 KWBR: TEMPERATURE ANALYSIS
LTAA98 KWBR: TEMPERATURE ANALYSIS UNCERTAINTY
LRAA98 KWBR: DEWPOINT TEMPERATURE ANALYSIS
LRAA98 KWBR: DEWPOINT TEMPERATURE ANALYSIS UNCERTAINTY
LNAA98 KWBR: WIND SPEED ANALYSIS
LNAA98 KWBR: WIND SPEED ANALYSIS UNCERTAINTY
LNAA98 KWBR: WIND DIRECTION ANALYSIS
LNAA98 KWBR: WIND DIRECTION ANALYSIS UNCERTAINTY
LUAA98 KWBR: U WIND COMPONENT ANALYSIS /NOAAPORT ONLY/
LVAA98 KWBR: V WIND COMPONENT ANALYSIS /NOAAPORT ONLY/

ALL OF THE GRIDS LISTED IN TABLE 1 ARE ALREADY FLOWING ON NOAAPORT. ALL OF THE GRIDS LISTED IN TABLE 1...EXCEPT FOR U AND V WINDS...WILL BECOME AVAILABLE IN NDGD ON MARCH 13 2008. THE GRIDS WILL BE IN GRIB2 FORMAT 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.RT
MA/AR.ALASKA

HTTP://WEATHER.NOAA.GOV/PUB/SL.US008001/ST.EXPR/DF.GR2/DC.NDGD/GT
.RTMA/AR.ALASKA/

THERE ARE 24 SUBDIRECTORIES BENEATH THE AR.ALASKA DIRECTORY ...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 2 /USE LOWER CASE LETTERS FOR ALL FILE NAMES/:

TABLE 2: NDGD FILE NAMES FOR ALASKA REGION 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 CREATED THE FOLLOWING WEB SITE FOR PREVIEWING UP-TO-DATE ALASKA RTMA /USE LOWER CASE/:

HTTP://WWW.EMC.NCEP.NOAA.GOV/MMB/RTMA/ALASKA/

FOR 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

FOR QUESTIONS ABOUT THE NCEP DATAFLOW ASPECTS OF THESE DATA SETS ...WRITE THE NCEP/NCO/PMB DATAFLOW HELP DESK EMAIL ADDRESS BELOW.

EMAIL: NCEP.PMB.DATAFLOW@NOAA.GOV

FOR QUESTIONS CONCERNING THE NDGD ACTIVATION 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

USERS CAN PROVIDE FEEDBACK ABOUT THE ALASKA RTMA AT THE FOLLOWING WEB SITE:

HTTP://WWW.WEATHER.GOV/SURVEY/NWS-SURVEY.PHP?CODE=RTMA-AK

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

HTTP://WWW.NWS.NOAA.GOV/OM/NOTIF.HTM

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