

NOUS41 KWBC 112005 CCA  
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  
NOAA WEATHER WIRE SERVICE /NWS/ SUBSCRIBERS  
EMERGENCY MANAGERS WEATHER INFORMATION NETWORK /EMWIN/  
SUBSCRIBERS  
NOAAPORT SUBSCRIBERS  
OTHER NWS PARTNERS...USERS AND EMPLOYEES

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

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

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 CONTIGUOUS U.S. /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...AUTOMATED SURFACE  
OBSERVING SYSTEM /ASOS/...MESONET AND OTHER SENSOR DATA AS IT CAN ACQUIRE  
IN NEAR REAL TIME. THE SENSOR DATA ARE ANALYZED AND INTERPOLATED TO A SIX  
KM RESOLUTION ALASKA REGION POLAR STEREOGRAPHIC GRID AND ENCODED IN  
GRIDDED BINARY VERSION TWO /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 SIX 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: WORLD METEOROLOGICAL ORGANIZATION /WMO/ HEADINGS ASSIGNED TO THE ALASKA REGION RTMA GRIDS

WMO HEADING	RTMA PARAMETER
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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 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.ALA SKA>

<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 FOR ALL FILENAMES/:

TABLE 2: NDGD FILENAMES FOR ALASKA REGION RTMA GRIDS

FILE NAME	RTMA PARAMETER
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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 WEBSITE FOR PREVIEWING UP-TO-DATE ALASKA RTMA /USE LOWER CASE/:

[HTTP://WWW.EMC.NCEP.NOAA.GOV/MB/RTMA/ALASKA/](http://www.emc.ncep.noaa.gov/mb/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](mailto: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](mailto: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](mailto:BRIAN.GOCKEL@NOAA.GOV)

USERS CAN PROVIDE FEEDBACK ABOUT THE ALASKA RTMA AT THE FOLLOWING WEBSITE /USE LOWER CASE/:

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

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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