NOUS41 KWBC 131300
PNSWSH

TECHNICAL IMPLEMENTATION NOTICE 07-90
NATIONAL WEATHER SERVICE HEADQUARTERS WASHINGTON DC
800 AM EST TUE NOV 13 2007

TO: FAMILY OF SERVICES /FOS/ SUBSCRIBERS...NOAAPORT
SUBSCRIBERS...OTHER NATIONAL WEATHER SERVICE /NWS/
PARTNERS AND OTHER USERS...NWS EMPLOYEES

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

SUBJECT: ADDITION OF NCEP REAL TIME MESOSCALE ANALYSIS
GRIDS FOR THE ALASKA REGION: EFFECTIVE
JANUARY 22 2008

EFFECTIVE TUESDAY JANUARY 22 2008...AT APPROXIMATELY 1500
COORDINATED UNIVERSAL TIME /UTC/...THE NATIONAL CENTERS FOR
ENVIRONMENTAL PREDICTION /NCEP/ WILL BEGIN DISSEMINATING A NEW
PRODUCT: REAL TIME MESOSCALE ANALYSES /RTMA/ FOR THE ALASKA
REGION. THIS PRODUCT WILL BE PROVIDED VIA NOAAPORT AND THE
NATIONAL DIGITAL GUIDANCE DATABASE /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 WILL GENERATE ONE SET OF ALASKA REGION 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 TIME HOUR.

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

ALL OF THE GRIDS LISTED IN TABLE 1 WILL BE 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...EXCEPT FOR U AND V WINDS...WILL BE AVAILABLE IN NDGD. 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.RTMA/AR.ALASKA

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

THERE WILL BE 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 NOAAPORT 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

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

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

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