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PNSWSH

TECHNICAL IMPLEMENTATION NOTICE 07-82
NATIONAL WEATHER SERVICE HEADQUARTERS WASHINGTON DC
1130 AM EDT WED OCTOBER 24 2007

TO: FAMILY OF SERVICES /FOS/ SUBSCRIBERS...
NOAA WEATHER WIRE SERVICE /NWS/ 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: ADDITION OF GFS-BASED GRIDDED MOS GUIDANCE FOR ALASKA:
EFFECTIVE FEBRUARY 26 2008

EFFECTIVE FEBRUARY 26 2008...THE NWS WILL PRODUCE NEW GLOBAL
FORECAST SYSTEM /GFS/ -BASED GRIDDED MOS GUIDANCE FOR ALASKA AND
DISSEMINATE IT ON THE SATELLITE BROADCAST NETWORK /SBN/...
NOAAPORT...AND THE NWS FTP SERVER. THESE GUIDANCE PRODUCTS WILL
BE IN GRIB2 FORMAT. THE NEW COMMUNICATION IDENTIFIERS FOR THESE
PRODUCTS ARE SHOWN IN TABLE 1 BELOW.

THE GRIDDED MOS PRODUCTS WILL CONTAIN GUIDANCE ON A ROUGHLY 3 KM
POLAR STEREOGRAPHIC GRID COVERING THE SAME EXPANSE AS THE
NATIONAL DIGITAL FORECAST DATABASE /NDFD/ ALASKA GRID. GRIDS
WILL BE GENERATED FROM THE 0000 AND 1200 UNIVERSAL COORDINATED
TIME /UTC/ MODEL RUNS AT PROJECTIONS OF 1 TO 7 DAYS IN ADVANCE.
GUIDANCE WILL INITIALLY BE AVAILABLE FOR THE FOLLOWING ELEMENTS
WITH OTHERS TO BE ADDED AT A LATER DATE:

DAYTIME MAXIMUM AND NIGHTTIME MINIMUM TEMPERATURE
2-METER SPOT TEMPERATURE
2-METER SPOT DEWPOINT TEMPERATURE
RELATIVE HUMIDITY
WIND SPEED
WIND DIRECTION
PROBABILITY OF PRECIPITATION /6 AND 12 HOUR/
PROBABILITY OF THUNDERSTORMS /3...6...AND 12 HOUR/

THE ALASKA PROBABILITY OF THUNDERSTORM GUIDANCE WILL ONLY BE
VALID DURING THE WARM SEASON FROM MAY 1 THROUGH SEPTEMBER 30.

A WEB PAGE PROVIDING MORE INFORMATION REGARDING GRID
SPECIFICATIONS...GRIB2 ENCODING AND ELEMENTS FOR WHICH GUIDANCE
IS AVAILABLE IS REFERENCED BELOW.

THE GRIB2 PRODUCTS WILL BE PROVIDED AS PART OF THE NATIONAL

DIGITAL GUIDANCE DATABASE /NDGD/. THEY WILL INITIALLY BE AVAILABLE ON THE NWS FTP SERVER AT /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.MO SGFS/AR.ALASKA

TABLE 1: COMMUNICATION IDENTIFIERS FOR THE GFS-BASED GRIDDED MOS GRIB2 PRODUCTS FOR ALASKA. EACH GRIB2 PRODUCT HAS A UNIQUE WMO HEADER. LISTED BELOW ARE REPRESENTATIONS OF THE WMO HEADERS. A COMPLETE LIST OF GRIDDED MOS WMO HEADERS IS AVAILABLE AT /USE LOWER CASE LETTERS/:

HTTP://WWW.NWS.NOAA.GOV/MDL/SYNOP/GMOS/GMOSHEADERS.PDF

WMO HEADING	ELEMENT
LBRXXX KWBQ	WIND DIRECTION
LCRXXX KWBQ	WIND SPEED
LDRXXX KWBQ	12-HR PROBABILITY OF PRECIPITATION
LERXXX KWBQ	2-METER TEMPERATURE
LFRXXX KWBQ	2-METER DEW POINT TEMPERATURE
LGRXXX KWBQ	DAYTIME MAXIMUM TEMPERATURE
LHRXXX KWBQ	NIGHTTIME MINIMUM TEMPERATURE
LJRXXX KWBQ	6-HR PROBABILITY OF THUNDERSTORMS
LRRXXX KWBQ	RELATIVE HUMIDITY
LURXXX KWBQ	6-HR PROBABILITY OF PRECIPITATION
LXRXXX KWBQ	12-HR PROBABILITY OF THUNDERSTORMS
LYRXXX KWBQ	3-HR PROBABILITY OF THUNDERSTORMS

A WEB PAGE OUTLINING THE GRIDDED MOS GUIDANCE AND THE FTP SERVER STRUCTURE CAN BE FOUND ONLINE AT /USE LOWER CASE LETTERS/:

HTTP://WWW.NWS.NOAA.GOV/MDL/SYNOP/GMOS.HTML

IF YOU HAVE QUESTIONS ABOUT THESE PRODUCTS OR THE MOS GUIDANCE... PLEASE CONTACT:

KATHRYN GILBERT
MDL/SILVER SPRING MARYLAND
PHONE: 301-713-0023 EXT. 130
E-MAIL: KATHRYN.GILBERT@NOAA.GOV

LINKS TO THE MOS PRODUCTS...ALONG WITH DESCRIPTIONS... CAN BE FOUND AT /USE LOWER CASE LETTERS/...

HTTP://WWW.NWS.NOAA.GOV/MDL/SYNOP

THIS AND OTHER NWS TECHNICAL IMPLEMENTATION NOTICES ARE AVAILABLE ON THE INTERNET AT THE /USE LOWER CASE LETTERS/...

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

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