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PNSWSH

TECHNICAL IMPLEMENTATION NOTICE 10-27
NATIONAL WEATHER SERVICE HEADQUARTERS WASHINGTON DC
127 PM EDT THU MAY 27 2010

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

FROM: TIM MCCLUNG
SCIENCE PLANS BRANCH CHIEF
OFFICE OF SCIENCE AND TECHNOLOGY

SUBJECT: ADDITION OF GFS-BASED GRIDDED MOS GUIDANCE FOR HAWAII:
EFFECTIVE SEPTEMBER 28 2010

EFFECTIVE TUESDAY SEPTEMBER 28 2010...THE NWS WILL PRODUCE NEW GLOBAL FORECAST SYSTEM /GFS/ -BASED GRIDDED MOS GUIDANCE FOR HAWAII 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 2.5 KM MERCATOR GRID COVERING THE SAME EXPANSE AS THE NATIONAL DIGITAL FORECAST DATABASE /NDFD/ HAWAII 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 TEMPERATURE
2-METER DEWPOINT TEMPERATURE
RELATIVE HUMIDITY
WIND DIRECTION
WIND SPEED
WIND GUSTS
PROBABILITY OF PRECIPITATION /6-H AND 12-H/

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 LOWERCASE EXCEPT FOR SL...ST...DF...DC...GT...AND AR/:

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

TABLE 1: COMMUNICATION IDENTIFIERS FOR THE GFS-BASED GRIDDED MOS
GRIB2 PRODUCTS FOR HAWAII

WMO HEADING	ELEMENT
LBSXXX KWBQ	WIND DIRECTION
LCSXXX KWBQ	WIND SPEED
LDSXXX KWBQ	12-HR PROBABILITY OF PRECIPITATION
LESXXX KWBQ	2-METER TEMPERATURE
LFSXXX KWBQ	2-METER DEW POINT TEMPERATURE
LGSXXX KWBQ	DAYTIME MAXIMUM TEMPERATURE
LHSXXX KWBQ	NIGHTTIME MINIMUM TEMPERATURE
LRSXXX KWBQ	RELATIVE HUMIDITY
LUSXXX KWBQ	6-HR PROBABILITY OF PRECIPITATION
LWSXXX KWBQ	WIND GUSTS

EACH GRIB2 PRODUCT HAS A UNIQUE WMO HEADER. THE TABLE ABOVE
LISTS REPRESENTATIONS OF THE WMO HEADERS. A COMPLETE LIST OF
GRIDDED MOS WMO HEADERS IS AVAILABLE AT /USE LOWERCASE/:

[HTTP://WWW.NWS.NOAA.GOV/MDL/SYNOP/GMOS/GMOSHEADERS.PDF](http://www.nws.noaa.gov/mdl/synop/gmos/gmosheaders.pdf)

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

[HTTP://WWW.NWS.NOAA.GOV/MDL/SYNOP/GMOS.PHP](http://www.nws.noaa.gov/mdl/synop/gmos.php)

FOR QUESTIONS REGARDING THE NEW GRIDDED MOS GUIDANCE FOR HAWAII
PLEASE CONTACT:

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LINKS TO THE MOS PRODUCTS...ALONG WITH DESCRIPTIONS...CAN BE
FOUND AT /USE LOWERCASE/:

[HTTP://WWW.NWS.NOAA.GOV/MDL/SYNOP](http://www.nws.noaa.gov/mdl/synop)

NWS NATIONAL TECHNICAL IMPLEMENTATION NOTICES ARE ONLINE AT
/USE LOWERCASE/:

[HTTP://WWW.WEATHER.GOV/OS/NOTIF.HTM](http://www.weather.gov/os/notif.htm)

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