

NOUS41 KWBC 171352
PNSWSH

Technical Implementation Notice 16-04
National Weather Service Headquarters Washington DC
152 PM EST Wed Feb 17 2016

To: Subscribers:
-NOAA Weather Wire Service
-Emergency Managers Weather Information Network
-NOAAPORT
Other NWS Partners, Users and Employees

From: Timothy McClung
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Office of Science and Technology Integration

Subject: Global Forecast System (GFS) product addition/removal
from NOAAPORT: Effective March 23, 2016

Effective on or about March 23, 2016, beginning with the 1200
Coordinated Universal Time (UTC) run, the National Centers for
Environmental Prediction (NCEP) will make the following changes
to GFS model output on NOAAPORT:

1. Remove 381 km Northern Hemisphere grid
2. Remove the GRIB1 SSTOI grid
3. Remove legacy fax charts
4. Add 20 km Pacific Region grid

NWS issues Public Information Statements on January 22, 2013,
and February 19, 2014, requesting comments on the proposed
termination of multiple legacy GFS products.

www.nws.noaa.gov/os/notification/pns13gfslegacy.txt
www.nws.noaa.gov/os/notification/pns14gfs_legacy_removal.txt

Based on responses received, NCEP will remove products as long
as there was a comparable, or better, replacement.

1) NCEP will terminate Grid #201, 381 km Northern Hemisphere
(Polar Stereographic) from NOAAPORT. A 1.0 degree global grid
was added to NOAAPORT on March 10, 2015 as a replacement to the
381 km grid. Please reference the TIN for information:

http://www.nws.noaa.gov/os/notification/tin14-54gfs_noaaport.htm

-Runs 4 cycles per day at 00z, 06z, 12z and 18z
-WMO Headers are as follows:

Template T1 T2 A1 A2 ii cccc
cccc is KWBC, where C is Global Forecast System (GFS)
T1 = L and M

T2 = B,C,E,G,H,O,P,R,T,U,V

A1 = A

A2 specifies the forecast hours as follows:

A = 00; B=06; C=12; D=18; E=24; F=30; G=36; H=42;
I=48; J=60; K=72; L=84; M=96; N=108; O=120; P=132;
Q=144; R=156; S=168; T=180; U=192; V=204; W=216;
X=228; Y=240 (Note: T1 is Y)
M=54; N=66; T=78; U=90; V=102; W=114;
Z=126; 138; 150; 162; 174; 186; 198; 210; 222;
234 (Note: T1 is Z)

ii = 10,15,20,25,30,40,50,70,85,86,97,98,99

A complete list of these WMO headers being removed is online at:
http://origin.ncep.noaa.gov/pmb/changes/gfs_381km_wmoheaders.shtml

2) NCEP will remove the GRIB1 Sea Surface Temperature OI on NOAAPORT. Users can find a similar product at:
http://polar.ncep.noaa.gov/sst/rtg_high_res/

- Runs once daily at 12z.
- WMO Headers are: HTXA88 KWBC

3) NCEP will remove World Area Forecast Fax Charts of Temperature and Winds NOAAPORT. Users can find similar graphical information on the NCEP Model Analysis and Guidance (MAG) website:

mag.ncep.noaa.gov

- Runs twice daily at 00z and 06z
- Flight Levels: 300, 340, 390
- WMO headers being removed will be as follows:
PWFD20 KWBC
PWFD25 KWBC
PWFD30 KWBC
PWFE20 KWBC
PWFE25 KWBC
PWFE30 KWBC

4) NCEP will add a GRIB2 20 km gridded product over Pacific Region (Mercator) to NOAAPORT.

- Runs 4 times per day at 00z, 06z, 12z and 18z
- WMO headers will be as follows:

T1 = Y for forecast hours: 00, 06, 12, 15, 18, 24, 30, 36,
42, 48, 60, 72,84, 96, 108,120, 132, 144, 156, 168,
180, 192, 204, 216, 228, 240

T1 = Z for forecast hours: 03, 09, 15, 21, 27, 33, 39, 45,
51, 54, 57, 63, 66, 69, 75, 78, 81, 90, 102, 114, 126,
138, 150, 162, 174, 186, 198, 210, 222, 234

T2 specifies the parameters as follows:

T - Temperature, TMIN, TMAX

H - Height; 5-wave geopotential height
O - Vertical velocity
R - Relative humidity
C - Absolute vorticity
U - u-component of wind
V - v-component of wind
P - Pressure; Pressure reduce to Mean Sea level
B - Vertical speed shear
E - Total precipitation
G - Convective precipitation
Q - Best Lifted Index
W - Convective Available Potential Energy
Y - Convective Inhibition
X - Surface Lifted Index
F - Precipitable Water
S - Water Equivalent of Accumulated Snow Depth
M - Precipitable Water

A1 = E* Grid 20 km, Pacific Region

*Was incorrectly labeled "F" in the previous advertised TIN
14-54

A2 specifies the forecast hours as follows:

A=00; B=06; C=12; D=18; E=24; F=30; G=36; H=42;
I=48; J=60; K=72; L=84; M=96; N=108; O=120;
P=132; Q=144; R=156; S=168; T=180; U=192; V=204;
W=216; X=228; Y=240 (Note: T1 is Y)

B=03; E=09; H=15; K=21; L=27; O=33; P=39; Q=45;
R=51; M=54; S=57; Z=63; N=66; Z=69; Z=75; T=78;
Z=81; U=90; V=102; W=114;
Z=126; 138; 150; 162; 174; 186; 198; 210; 222;
234 (Note: T1 is Z)

ii specifies level as follows:

99=1000mb; 93=975 mb; 95=950 mb; 92=925 mb; 90=900mb;
91=875 mb; 85=850mb; 82=825 mb; 80=800 mb; 77=775 mb;
75=750mb; 72=725mb; 70=700mb; 67=675 mb; 65=650 mb;
62=625 mb; 60=600mb; 57=575 mb; 55=550mb; 52=525 mb;
50=500mb; 45=450mb; 40=400mb; 35=350mb; 30=300mb;
25=250mb; 20=200mb; 15=150mb; 10=100mb;
73=High, Mid, Low cloud bottom level
86=Boundary Layer
89=Reduced to Sea Level
94=Level of the 0 deg. C isotherm
96=Maximum wind level
97=Level of the Tropopause, potential vorticity surface
98=Surface of Earth
00=Entire Atmosphere

See the following link for a full list of WMO headers:

http://www.nco.ncep.noaa.gov/pmb/changes/gfs_pac_wmo.txt

For questions regarding these changes, please contact:

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NWS National Technical Implementation Notices are online at:

<http://www.nws.noaa.gov/os/notif.htm>

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