

NOUS41 KWBC 022139  
PNSWSH

Technical Implementation Notice 12-06  
National Weather Service Headquarters Washington DC  
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To:     Subscribers:  
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From:   Tim McClung  
       Chief, Science Plans Branch  
       Office of Science and Technology

Subject: Additions, Deletions, Changes to NAM And RUC (RAP)  
          BUFR Stations and Additional and Removed Stations in  
          NCEP NAM Soundings Collectives on NOAAPORT:  
          Effective March 6, 2012

Effective March 6, 2012, beginning with the 1200 Coordinated Universal Time (UTC) model distribution, the National Centers for Environmental Prediction (NCEP) will modify the list of stations for which BUFR data are generated for both the North American Mesoscale (NAM) and Rapid Refresh (RAP) models. The changes will also modify the lists of stations in the North American Mesoscale (NAM) model BUFR sounding collectives disseminated on NOAAPORT.

For the NAM and RAP lists, the new stations are listed in Table 1 and the stations being removed are listed in Table 2. This change corresponds with the implementation of the Rapid Refresh (RAP) to replace the Rapid Update Cycle (RUC).

The NAM and RUC have always used the same station list, but many of the stations fall outside of the RUC domain and are not used by the model. The larger RAP domain will allow data for many more of the NAM stations to be used in the RAP output.

The lists below do not cover existing stations in the list that are outside of the RUC domain but inside the RAP domain. It deals only with actual changes to the list itself. Also note that the NAM nests use the same station list as the parent 12 km NAM, so any changes to the list involving locations within a particular nest impact that nest's BUFR output as well.

Table 1. New stations in the NAM and RAP BUFR lists. The numerical and character identifications are provided:

000228 SWY Spanaway WA  
 000229 WPT Westport WA  
 000230 LUT Near Lutsen MN  
 000231 PWN Near Port Wing WI  
 000232 SDP Near Sand Point AK  
 000233 KISO Kinston NC  
 000234 KMVL Morrisville-Stowe Apt VT  
 000235 KGKL Meadville PA  
 000236 K48I Sutton WV  
 000237 KGXA Gray Butte Field CA  
 000238 EMF El Mirage Field CA  
 000239 ISQ Manistique MI  
 000240 P53 Munising MI  
 000241 K3LF Litchfield IL  
 000270 CFC Colfax Water CA  
 000271 MPI Mariposa CA  
 000273 NXD New Exchequer Dam CA  
 000274 PFD Pine Flat Dam CA  
 000275 TPK Three Peaks CA  
 000276 RVD Ravensdale WA  
 000277 SHS Sacramento ARO Site CA  
 000278 TNF Tahoe National Forest CA  
 000279 STA Shasta Dam CA  
 000293 CCR Concord CA  
 098009 KEMP Emporia KS  
 722593 KMHV Mojave CA  
 724456 VIH Rolla/Vichy Airport MO  
 723065 KPGV Greenville NC  
 723069 KOAJ Jacksonville NC  
 724580 KCNK Concordia/Blosser KS  
 725116 KLNS Lancaster PA  
 726134 KHIE Whitefield NH  
 726385 KMBL Manistee MI  
 727883 KELN Ellensburg/Bowers WA  
 747900 KSSC Shaw AFB/Sumter SC

Table 2. Stations being removed from the NAM and RAP BUFR lists. The numerical and character identifications are provided:

000620 C20 Canada/Great Lakes  
 000621 C21 Canada/Great Lakes  
 072434 STL St. Louis MO

The following changes are being made to the station lists:

-Station 000020 (nr. Watertown, SD) is moved from 44.80 N, 96.70 W TO 45.80 N, 97.45 W and will now be known as (Marshall County RAWS). The character identification is changed from WTT to MRLS.

-Station 727790 (KGPI) now represents Glacier Park Intl

instead of Kalispell/Glacier. There is no change to the numerical or character identification.

-Station 000057 (Lewis Range of Rockies, MT) is moved from 48.00 N, 113.00 W to 48.32N, 113.35 W and will now be known as Marias Pass, MT. The character identification is changed from LRR TO MRP.

-Station 000617 (Northern Rockies, MT) is moved from 46.00 N, 114.00 W to 46.25 N, 114.15 W and will now be known as Hamilton MT. The character identification is changed from C17 to HMM.

The changes to the BUFR station lists will result in no changes to the WMO headers of the NOAAPORT soundings collectives. The headers listed in Table 3, below, are used today and these headers will continue to be used. There will also be no change to the BUFR format of the products except that new stations will be included in the collectives. The new stations as well as those being eliminated appear in Table 4, below.

Table 3. WMO communication identifiers for the NAM BUFR collectives:

JUSA41 KWNO  
JUSA42 KWNO  
JUSB43 KWNO  
JUSB44 KWNO  
JUSB45 KWNO  
JUSB46 KWNO  
JUSX49 KWNO

Table 4. Additions/deletions to NAM BUFR sounding collectives:

Collective 1 (JUSA41):

ADDED:

STATION NUMBER	STATION ID	STATION NAME
000233	KISO	Kinston, NC
722235	KBFM	Mobile Downtown (ASOS), AL
723065	KPGV	Greenville, NC
723069	KOAJ	Jacksonville, NC
724456	VIH	Rolla/Vichy Airport, MO
747900	KSSC	Shaw AFB/Sumter, SC

DELETED:

072434 STL St. Louis, MO

Note that station 722235 is already generated in NAM/RAP BUFR output. The station had been mistakenly omitted from the

collectives, and this is now corrected.

Collective 2 (JUSA42):

ADDED:

STATION NUMBER	STATION ID	STATION NAME
000234	KMVL	Morrisville-Stowe Apt, VT
000235	KGKL	Meadville, PA
000236	K48I	Sutton, WV
000239	ISQ	Manistique, MI
000240	P53	Munising, MI
000241	K3LF	Litchfield, IL
725116	KLNS	Lancaster, PA
726134	KHIE	Whitefield, NH
726385	KMBL	Manistee, MI

DELETED:

NONE

Collective 3 (JUSB43):

ADDED:

NONE

DELETED:

NONE

Collective 4 (JUSB44):

ADDED:

STATION NUMBER	STATION ID	STATION NAME
000230	LUT	Near Lutsen, MN
000231	PWN	Near Port Wing, WI
098009	KEMP	Emporia, KS
724580	KCNK	Concordia/Blosser, KS

DELETED

000620	C20	Canada/Great Lakes
000621	C21	Canada/Great Lakes

Collective 5 (JUSB45):

ADDED:

STATION NUMBER	STATION ID	STATION NAME
000237	KGXA	Gray Butte Field, CA
000238	EMF	El Mirage Field, CA
000270	CFC	Colfax Water, CA
000271	MPI	Mariposa, CA
000273	NXD	New Exchequer Dam, CA
000274	PFD	Pine Flat Dam, CA
000275	TPK	Three Peaks, CA

000277 SHS Sacramento ARO Site, CA  
000278 TNF Tahoe National Forest, CA  
000279 STA Shasta Dam, CA  
000293 CCR Concord, CA

DELETED:  
NONE

Collective 6 (JUSB46):

ADDED:  
STATION STATION  
NUMBER ID STATION NAME  
000228 SWY Spanaway, WA  
000229 WPT Westport, WA  
000276 RVD Ravensdale, WA  
722593 KMHV Mojave, CA  
727883 KELN Ellensburg/Bowers, WA

DELETED:  
NONE

Collective 9 (JUSX49):

ADDED:  
STATION STATION  
NUMBER ID STATION NAME  
000232 SDP Near Sand Point, AK

DELETED:  
NONE

If you have any questions concerning these changes, please  
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products, please contact:

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This and other NWS technical implementation notices are  
available online at:

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

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