

NOUS41 KWBC 291744
PNSWSH

Technical Implementation Notice 13-35
National Weather Service Headquarters Washington DC
145 PM EDT Tue Oct 29 2013

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From: Tim McClung
Chief, Science Plans Branch
Office of Science and Technology

Subject: Additions and Changes to the NAM and RAP BUFR
Soundings Effective December 17, 2013

Effective on or about Tuesday, December 17, 2013, 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 Binary Universal Form for the Representation (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 NAM model BUFR sounding collectives disseminated on NOAAPORT.

The new stations are listed in Table 1. The stations being changed are listed in Table 2. No stations are being removed. This set of changes to the NAM and RAP will correspond with the implementation of version 2 of the RAP, currently scheduled for December 17.

The high-resolution 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. In this implementation, all of the modified sites are in the CONUS nest output. All of the new stations are in the CONUS nest output, except for station 000367 that will appear in the Puerto Rico nest output.

The changes to the BUFR station lists will result in no changes to the WMO headers of the NOAAPORT NAM soundings collectives. The headers listed in Table 3 are the current headers and NCEP will continue to use them. 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 appear in Table 4.

The Short-Range Ensemble Forecast system (SREF) station list will be updated in early 2014. The changes to that list will be

detailed in an upcoming SREF TIN.

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

| | | |
|--------|------|-------------------------------|
| 000345 | KPNA | Pinedale WY |
| 000346 | WLM | William CA |
| 000347 | BNY | Burney CA |
| 000348 | SON | Sonora CA |
| 000349 | YSV | Yosemite Valley CA |
| 000350 | LSY | Lindsay CA |
| 000351 | JHN | Johnsonville CA |
| 000352 | FZP | Frazier Park CA |
| 000353 | COA | Coalinga CA |
| 000354 | TBM | Table Mountain CA |
| 000355 | KPSF | Pittsfield MA |
| 000356 | KUNI | Athens/Albany OH |
| 000357 | K36U | Heber Valley Municipal Apt UT |
| 000358 | B40 | Yuma AZ |
| 000359 | B41 | Ft Huachuca AZ |
| 000360 | B42 | Deming NM |
| 000361 | B43 | Marfa TX |
| 000362 | B44 | Eagle Pass TX |
| 000363 | B45 | Rio Grande City TX |
| 000364 | B46 | Matagorda TX |
| 000365 | B47 | Morgan City LA |
| 000366 | B48 | Cudjoe Key FL |
| 000367 | B49 | Lajas PR |
| 723066 | KGSB | Seymour-Johnson AFB NC |
| 724397 | KBMI | Bloomington/Normal IL |
| 725490 | KFOD | Fort Dodge IA |
| 725635 | KAIA | Alliance NE |
| 726710 | KBPI | Big Piney CA |

Table 2: Changes to existing sites being made to the NAM and RAP BUFR lists. The numerical and character identifications are provided:

-Station 000037 (near Carroll, IA) will moved from 42.00 N, 95.00 W to 42.04 N, 94.79 W and will now be known as Carroll, IA. This puts the BUFR point at the local airport instead of the current rural location.

-Station 000050 (near Albia, IA) will move from 40.90 N, 92.8 W to 42.11 N, 92.92 W and will now be known as Marshalltown, IA. The character identifier will change from AIA to MAR.

-Station 000080 (Redding, IA) will moved from 40.69 N, 94.47 W to 41.02 N, 94.36 W and will be known as Creston, IA. The character identifier will changed from RDD to CSQ.

- Station 724754 (Saint George AWOS, UT) will move from 37.08 N, 113.6 W to 37.04N, 113.5W to match the new location of the airport.

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

JUSA41 KWNO
JUSA42 KWNO
JUSB43 KWNO
JUSB44 KWNO
JUSB45 KWNO
JUSB46 KWNO
JUSX47 KWNO
JUSX49 KWNO

Table 4: Additions to NAM BUFR sounding collectives:

Collective 1 (JUSA41):

| STATION NUMBER | STATION ID | STATION NAME |
|----------------|------------|------------------------|
| 000366 | B48 | Cudjoe Key FL |
| 000367 | B49 | Lajas PR |
| 723066 | KGSB | Seymour-Johnson AFB NC |

Collective 2 (JUSA42):

| STATION NUMBER | STATION ID | STATION NAME |
|----------------|------------|-----------------------|
| 000355 | KPSF | Pittsfield MA |
| 000356 | KUNI | Athens/Albany OH |
| 724397 | KBMI | Bloomington/Normal IL |

Collective 3 (JUSB43):

| STATION NUMBER | STATION ID | STATION NAME |
|----------------|------------|--------------------|
| 000360 | B42 | Deming NM |
| 000361 | B43 | Marfa TX |
| 000363 | B45 | Rio Grande City TX |
| 000364 | B46 | Matagorda TX |
| 000365 | B47 | Morgan City LA |

Collective 4 (JUSB44):

| STATION NUMBER | STATION ID | STATION NAME |
|----------------|------------|---------------|
| 725490 | KFOD | Fort Dodge IA |
| 725635 | KAIA | Alliance NE |

Collective 5 (JUSB45):

ADDED:

| STATION NUMBER | STATION ID | STATION NAME |
|----------------|------------|--------------|
|----------------|------------|--------------|

| | | |
|--------|------|-------------------------------|
| 000346 | WLM | William CA |
| 000347 | BNY | Burney CA |
| 000348 | SON | Sonora CA |
| 000349 | YSV | Yosemite Valley CA |
| 000350 | LSY | Lindsay CA |
| 000351 | JHN | Johnsonville CA |
| 000352 | FZP | Frazier Park CA |
| 000353 | COA | Coalinga CA |
| 000354 | TBM | Table Mountain CA |
| 000357 | K36U | Heber Valley Municipal Apt UT |
| 000358 | B40 | Yuma AZ |
| 000359 | B41 | Ft Huachuca AZ |
| 000362 | B44 | Eagle Pass TX |

Collective 6 (JUSB46):

| STATION NUMBER | STATION ID | STATION NAME |
|----------------|------------|--------------|
| 000345 | KPNA | Pinedale WY |
| 726710 | KBPI | Big Piney CA |

There are no changes to collectives 7 or 9; 8 does not exist.

For questions concerning these changes, please contact:

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NWS National Technical Implementation Notices are online at:

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