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PNSWSH

Technical Implementation Notice 16-42  
National Weather Service Headquarters Washington DC  
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From: Dave Myrick  
NWS Office of Science and Technology Integration

Subject: Additions and Changes to the BUFR station lists for  
the NAM,RAP,HRRR,SREF,and Hi-Res Windows:  
Effective January 10,2017

Effective on or about Tuesday,January 10,2017,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 the following models:

- Rapid Refresh (RAP)
- High-Resolution Rapid Refresh (HRRR)
- Short-Range Ensemble Forecast System (SREF)
- High-Resolution ARW and NMMB Windows (HIRESW)

The changes will also be made to the North American Mesoscale (NAM) model and its nests,but these changes will be made as part of the upcoming NAM upgrade on or about February 1,2017.

The new stations are listed in Table 1 below.Stations being changed are listed in Table 2 below.No stations are being removed.There will be no accompanying NOAAPORT changes to the lists of stations in the North American Mesoscale (NAM) model BUFR sounding collectives.

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.All of the new and modified sites are in either the CONUS nest output or the Alaska nest output.Please note the special information about Karymksy,AK,below.

Table 1: New stations in the BUFR lists

The numerical and character identifications are provided:

000771 44.89N 72.23W KEFK NEWPORT,VT  
000772 43.46N 101.50W LGVS LONG VALLEY,SD  
000773 43.99N 103.79W DFDS DEERFIELD,SD  
000774 29.30N 84.04W S#D FAR NE GULF OF MEXICO  
000775 27.90N 96.64W S#E FAR WEST GULF OF MEXICO  
000776 34.31N 84.42W KCNI CANTON/CHEROKEE CTY,GA  
000777 34.27N 83.83W KGVL GAINESVILLE,GA  
000778 41.34N 84.43W KDFI DEFIANCE\_MEMORIAL\_APRT,OH  
000779 41.28N 85.84W KASW WARSAW,IN

000780 41.81N 85.44W KIRS STURGIS-KIRSCH\_MUNI\_APT,MI  
000781 41.57N 86.73W KPPO LA PORTE,IN  
000782 48.93N 103.30W KD50 CROSBY,ND  
000783 48.88N 99.62W K06D ROLLA,ND  
000784 46.19N 103.43W KBPP BOWMAN,ND  
000785 46.02N 99.35W KASY ASHLEY,ND  
000786 46.17N 98.07W K2D5 OAKES,ND  
000787 46.01N 83.74W KDRM DRUMMOND ISLAND,MI  
000788 46.88N 89.32W ONTM ONTONAGON,MI  
000789 45.58N 87.00W MSPS MINNEAPOLIS SHOALS GRN BAY  
000790 34.36N 117.63W WRD WRIGHTWOOD,CA  
000791 34.94N 119.69W NCY NEW CUYAMA,CA  
000792 34.48N 120.23W GVA GAVIOTA,CA  
000793 34.61N 120.08W KIZA SANTA YNEZ,CA  
000794 43.74N 111.10W KDIJ DRIGGS-REED\_MEM\_APT,ID  
000795 34.85N 84.00W KDZJ BLAIRSVILLE,GA  
000796 44.35N 103.77W LED LEAD,SD  
000797 44.41N 104.36W SDNW SUNDANCE,WY  
000798 37.80N 94.77W KFSK FORT SCOTT,  
000799 37.64N 92.65W KLBO LEBANON,MO  
000800 38.35N 93.34W KRAW WARSAW,MO  
000848 41.14N 75.38W KMPO POCONO\_MNTS\_MUNIL\_ARPT,PA  
000849 39.98N 75.82W COAT COATESVILLE,PA  
000855 42.11N 109.45W FSN FARSON,WY  
000856 42.49N 107.83W JFC JEFFREY CITY,WY  
000857 42.48N 108.84W SOU SOUTH PASS,WY  
000858 43.20N 110.40W BDT BONDURANT,WY  
000859 40.61N 95.87W KAFK NEBRASKA CITY,NE  
000860 41.24N 96.59W KAHQ WAHOO,NE  
000861 41.45N 87.01W KVPZ VALPARAISO,IN  
000862 41.42N 88.41W C09 MORRIS,IL  
000863 39.76N 98.79W K82 SMITH CENTER,KS  
000864 40.51N 106.87W KSBS STEAMBOAT SPRINGS,CO  
000865 39.43N 107.38W K5SM SUNLIGHT MTN,CO  
000866 39.48N 106.15W KCCU COPPER MTN,CO  
000867 40.50N 107.52W KCAG CRAIG,CO  
000868 41.02N 89.39W KC75 MARSHALL CTY ARPT,IL  
000869 38.72N 88.18W KOLY OLNEY\_NOBLE ARPT,IL  
000870 39.06N 98.17W KK71 LINCOLN,KS  
000871 37.13N 96.19W SDN SEDAN,KS  
000872 38.37N 96.54W CTW COTTONWOOD FALLS,KS  
000873 42.64N 77.05W KPEO PENN YAN,NY  
000874 41.77N 76.45W TOW TOWANDA,PA  
000875 40.73N 106.28W K33V WALDEN-JACKSON CO APT,CO  
000876 43.45N 76.51W OSW OSWEGO,NY  
000877 43.08N 94.27W KAXA ALGONA,IA  
000878 43.40N 94.75W KEST ESTERVILLE,IA  
000879 40.35N 94.92W KEVU NW\_MISSOURI\_REG\_APT,MO  
000880 38.22N 83.59W KSYM MOREHEAD-ROWAN\_REG\_APT,KY  
000881 38.71N 93.18W KDMO SEDALIA\_REG\_APT,MO  
000882 39.42N 93.13W KBRN BRUNSWICK,MO  
000883 43.71N 108.39W KHSG THERMOPOLIS,WY  
000884 43.18N 111.04W K46U ALPINE,WY  
000885 45.59N 103.55W K2WX BUFFALO,SD

000886 60.82N 152.72W LCLP LAKE CLARK PASS,AK  
 000887 69.00N 160.00W WBR WESTERN BROOKS RANGE,AK  
 000888 52.00N 177.55E KISK KISKA ISLAND,AK  
 000889 57.00N 166.00W SEBE SOUTHEAST BERING SEA  
 000890 62.22N 153.08W RAPS RAINY PASS,AK  
 000891 59.73N 157.26W PAJZ KOLIGANEK,AK  
 000892 61.89N 147.32W TAPS TAHNETA PASS,AK  
 000893 66.27N 166.05W PASH SHISHMAREF,AK  
 000894 34.10N 117.23W KSBD SAN BERNARDINO,CA  
 000895 40.63N 93.90W KLWD LAMONI,IA  
 000896 33.40N 110.77W KGLO GLOBE,AZ  
 000897 33.97N 112.74W KWKB WICKENBURG,AZ  
 000898 38.80N 76.07W KESN1 EASTON,MD  
 000899 41.05N 74.63W SPA SPARTA,NJ  
 722920 33.40N 118.42W KAVX AVALON/CATALINA,CA  
 723200 34.35N 85.16W KRMG ROME/RUSSELL,GA  
 723927 34.21N 119.20W KOXR OXNARD,CA  
 724354 37.05N 84.61W KSME SOMERSET/LK\_CUMBERLAND,KY  
 724475 38.83N 94.89W KIXD 11 OLATHE/NEW CENTURY APT,KS  
 725347 42.42N 87.87W KUGN 11 WAUKEGAN,IL  
 725527 41.76N 96.18W KTQE 11 TEKAMAH,NE  
 726155 43.57N 71.42W KLCI 11 LACONIA,NH  
 726165 42.90N 72.27W KEEN 11 KEENE/DILLANT,NH  
 726355 42.14N 86.44W KBEH 11 BENTON\_HARBOR/ROSS,MI  
 726380 44.36N 84.67W KHTL 11 HOUGHTON\_LAKE\_ARPT,MI  
 726395 44.45N 83.40W KOSC 11 WURTSMITH\_AFB,MI  
 727677 47.65N 101.43W N60 11 GARRISON,ND  
 745310 38.97N 104.82W KAFF 12 AIR\_FORCE\_ACADEMY,CO

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

- Station 000237 (KGXA: Gray Butte Field,CA) is moved from 34.34N,117.40W to 34.57N,117.67W.
- The character identifier for station 000239 (Manistique,MI) is changed from ISQ to KISQ.
- The character identifier for station 000296 (Oscura Range Camp,NM) is changed from OSC to OSCR.
- Station 000373 (PEV: Peever,SD) is moved from 45.46N,91.74W to 45.46N,96.99W.
- Station 000396 (KLNL: Land O'Lakes,WI) is moved from 46.15N,98.21W to 46.15N,89.21W.
- Station 000699 (MTG: Montague,NY) is moved from 43.49N,76.22W to 43.76N,75.68W
- Station 000769 (SHVL: Shiveluch,AK) is moved from 56.65N,161.37W to 56.65N,161.37E
- Station 000770 (KYMY: Karymsky,AK) is moved from 54.05N,159.43W to 54.05N,159.43E.Note that the correction of the location for this station results in the station no longer appearing in the BUFR data for the NAM Alaska nest and the Alaskan Hi-Res Window.The station is actually outside of the domain; the incorrect longitude being used causes the station to be placed inside the domain in the current operational version.
- Station 722950 (Los Angeles Intl,CA) is now designated as a water point to best represent weather conditions at the site.

Send questions or comments to:

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