

NOUS41 KWBC 091327  
PNSWSH

Technical Implementation Notice 15-30  
National Weather Service Headquarters Washington DC  
338 PM EDT Wed Jun 10 2015

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From: Tim McClung  
Chief Operating Officer  
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 July 21, 2015

Effective on or about Tuesday, July 21, 2015, 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:

- North American Mesoscale (NAM)
- 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 modify the lists of stations in NAM model BUFR sounding collectives disseminated on NOAAPORT.

Table 1, below, lists the new stations. Table 2, lists the stations changing. No stations are being removed.

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 new and modified sites are in either the CONUS nest output or the Alaska nest output.

The changes to the BUFR station lists will not result in changes to the WMO headers of the NOAAPORT NAM soundings collectives. The headers listed in Table 3, below, are used today, and will continue to be used. There will also be no change to the BUFR format of the products except including new stations in the collectives. The new stations appear in their assigned

collectives in Table 4.

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

000340	55.00N	170.00E	BS1	BERING SEA	
000341	55.00N	180.00E	BS2	BERING SEA	
000342	60.00N	175.00E	BS3	BERING SEA	
000368	46.19N	121.70W	MAW	MT ADAMS WEST	WA
000369	46.28N	122.28W	SHNW	MT ST HELENS NW	WA
000370	45.35N	121.94W	MHW	MT HOOD WEST	OR
000371	44.17N	122.06W	TSW	THREE SISTERS WEST	OR
000372	45.03N	99.11W	FLK	FAULKTON	SD
000373	45.46N	91.74W	PEV	PEEVER	SD
000374	38.28N	95.22W	KK68	GARNETT AIRPORT	KS
000375	39.86N	96.63W	KMYZ	MARYSVILLE AIRPORT	KS
000376	44.38N	106.72W	BYG	JOHNSON_CTY/BUFFALO	WY
000377	44.52N	108.08W	KGEY	GREYBULL_AIRPORT	WY
000378	45.10N	90.30W	KMDZ	MEDFORD	WI
000379	44.46N	92.29W	82MN	LAKE CITY	MN
000380	37.29N	107.06W	KPSO	PAGOSA SPRINGS	CO
000381	38.23N	108.56W	KAIB	NUCLA	CO
000382	40.05N	107.89W	KEOO	MEEKER	CO
000383	41.64N	91.54W	KIOW	IOWA CITY	IA
000384	39.05N	105.51W	K4MB	WILKERSON PASS	CO
000385	40.05N	106.36W	K20V	KREMMLING	CO
000386	38.76N	87.61W	KLWV	LAWRENCEVILLE/VINCEN	IL
000387	39.07N	88.53W	K1H2	EFFINGHAM CO MEM APT	IL
000388	40.94N	90.43W	KGBG	GALESBURG	IL
000389	39.77N	90.24W	KIJX	JACKSONVILLE	IL
000390	39.48N	88.28W	KMTO	COLES CO MEM APT	IL
000391	43.39N	99.84W	KICR	WINNER	SD
000392	43.02N	102.52W	KIEN	PINE RIDGE	SD
000393	43.89N	104.32W	KECS	NEWCASTLE	WY
000394	44.56N	102.66W	UNIS	UNION CENTER	SD
000395	43.74N	105.74W	WGTW	WRIGHT	WY
000396	46.15N	98.21W	KLNL	LAND O'LAKES	WI
000397	46.54N	87.39W	MQTM	MARQUETTE	MI
000398	46.68N	85.97W	GRMM	GRAND MARAIS	MI
000399	46.61N	88.91W	KTNM	KENTON	MI
000629	41.73N	98.01W	KBVN	ALBION	NE
000630	41.58N	95.34W	KHNR	HARLAN	IA
000631	42.24N	96.98W	KLCG	WAYNE	NE
000632	37.70N	98.75W	PTT	PRATT	KS
000633	48.75N	98.39W	D55	LANGDON	ND
000634	48.75N	96.94W	KHCO	HALLOCK	MN
000635	44.46N	96.25W	IVNH	IVANHOE	MN
000636	43.17N	95.21W	KSPW	SPENCER	IA
000637	43.22N	99.40W	K9D1	GREGORY	SD
000638	43.26N	98.76W	RLAS	LAKE ANDES	SD
000639	40.90N	97.62W	KJYR	YORK	NE
000640	40.79N	99.78W	KLXN	LEXINGTON	NE
000641	40.15N	97.58W	KHJH	HEBRON	NE

000642 39.73N 99.32W KPHG PHILLIPSBURG KS  
000643 36.77N 90.32W KPOF POPLAR BLUFF MO  
000644 37.36N 87.40W 2I0 MADISONVILLE KY  
000645 39.05N 85.61W KOVO NORTH VERNON IN  
000646 37.75N 82.64W SJS BIG SANDY REG APT KY  
000647 36.61N 83.74W K1A6 MIDDLESBORO/BELL\_CO\_APT KY  
000648 36.86N 84.86W KEKQ WAYNE\_COUNTY\_APT KY  
000649 38.06N 83.98W KIOB MT STERLING/MGY\_CO\_APT KY  
000650 41.12N 101.77W KOGA OGALLALA NE  
000651 41.96N 100.57W KTIF THEDFORD NE  
000652 43.55N 109.69W KDUB DUBOIS WY  
000653 42.71N 110.94W KAFO AFTON WY  
000654 41.82N 110.56W KEMM KEMMERER WY  
000655 44.87N 108.79W KPOY POWELL WY  
000656 44.91N 108.45W KU68 COWLEY WY  
000657 43.71N 106.63W KYC KAYCEE WY  
000658 43.52N 89.77W KDLL BARABOO/WI DELLS WI  
000659 43.77N 88.49W KFLD FOND DU LAC WI  
000660 42.89N 90.24W KMRJ MINERAL POINT WI  
000661 43.04N 88.24W KUES WAUKESHA WI  
000662 44.04N 89.31W KY50 WAUTOMA WI  
000663 41.35N 89.15W KVYS PERU IL  
000664 41.70N 86.82W KMGC MICHIGAN CITY IN  
000665 41.07N 87.85W KIKK KANKAKEE IL  
000667 41.89N 89.08W KRPJ ROCHELLE/KORITZ\_FIELD IL  
000668 45.42N 91.77W KRPD RICE LAKE WI  
000669 45.10N 94.51W KLJF LITCHFIELD MN  
000670 44.73N 96.27W KCNB CANBY MN  
000671 40.10N 102.24W K2V5 WRAY CO  
000672 38.76N 102.79W KC1 KIT CARSON CO  
000673 45.29N 86.98W DDOR DEATHS DOOR WI  
000674 44.36N 89.84W KISW WISCONSIN RAPIDS WI  
000675 39.99N 74.17W TMSR TOMS RIVER NJ  
000676 37.70N 85.87W ELZB ELIZABETHTOWN KY  
000678 37.67N 98.12W K9K8 KINGMAN KS  
000679 37.28N 98.04W K8K2 HARPER KS  
000680 38.30N 95.72W KUKL BURLINGTON KS  
000681 37.85N 96.29W K13K EUREKA KS  
000682 38.75N 98.23W K9K7 ELLSWORTH KS  
000683 39.55N 73.90W ATL5 EAST OF LONG BEACH IS ATL  
000684 39.70N 71.60W ATL6 SOUTH OF MONTAUK ATL  
000698 42.50N 78.68W SVL SPRINGVILLE NY  
000699 43.49N 76.22W MTG MONTAGUE NY  
000765 63.68N 170.50W PASA SAVOONGA\_AIRPORT AK  
000766 68.13N 151.73W PAKP ANAKTUVUK\_PASS AK  
000767 63.77N 171.73W PAGM GAMBELL AK  
000768 60.37N 166.27W PAMY MEKORYUK AK  
000769 56.65N 161.37W SHIV SHIVELUCH AK  
000770 54.05N 159.43W KYMY KARYMSKY AK  
723480 36.88N 91.90W KUNO WEST\_PLAINS MO  
723565 36.76N 96.01W KBVO BARTLESVILLE OK  
724096 40.02N 74.60W KWRI MCGUIRE\_AFB NJ  
724237 37.75N 87.16W KOWB OWENSBORO KY  
724240 37.91N 85.97W KFTK FORT KNOX/GOODMAN\_FLD KY

724336 37.78N 89.25W KMDH CARBONDALE IL  
724398 40.12N 87.60W KDNV DANVILLE/VERMILLION APT IL  
724516 37.04N 100.97W KLBL LIBERAL KS  
724517 38.34N 98.86W KGBD GREAT BEND KS  
724520 37.27N 98.55W KP28 MEDICINE LODGE KS  
724604 37.01N 101.88W KEHA ELKHART KS  
724627 37.95N 107.90W KTEX TELLURIDE CO  
724655 39.38N 99.83W KHLC HILL CITY KS  
724767 37.30N 108.67W KCEZ CORTEZ CO  
724768 40.43N 104.63W KGXY GREELEY CO  
724769 40.45N 105.01W KFNL FORT COLLINS/LOVELAND CO  
724776 38.76N 109.75W KCNY MOAB/CANYONLANDS UT  
724927 37.70N 121.82W KLVK LIVERMORE\_MUNICIPAL CA  
725326 41.74N 89.68W KSQI STERLING/ROCK FALLS IL  
725467 40.75N 95.41W KSDA SHENANDOAH IA  
725476 43.28N 91.74W KDEH DECORAH IA  
725515 40.30N 96.75W KBIE BEATRICE NE  
725526 40.73N 99.00W KEAR KEARNEY NE  
725555 41.44N 99.64W KBBW BROKEN BOW NE  
725565 41.45N 97.34W KOLU COLUMBUS NE  
725566 42.47N 98.69W KONL O'NEILL NE  
725626 40.51N 101.62W KIML IMPERIAL NE  
725628 40.45N 99.33W KHDE HOLDREGE NE  
725717 39.53N 107.73W KRIL RIFLE CO  
726415 42.62N 89.04W KJVL JANESVILLE/DOOR\_CO WI  
726416 43.21N 90.18W KLNR LONE ROCK WI  
726455 44.13N 87.68W KMTW MANITOWOC\_CO\_APT WI  
726515 44.31N 96.82W KBKX BROOKINGS SD  
726559 44.45N 95.82W KMML MARSHALL MN  
726567 44.32N 94.50W KULM NEW ULM MN  
726578 45.95N 94.35W KLXL LITTLE FALLS MN  
726589 43.68N 93.37W KAEL ALBERT LEA MN  
726664 44.54N 110.42W KP60 LAKE YELLOWSTONE WY  
727457 46.83N 95.89W KDTL DETROIT LAKES MN  
727924 46.12N 122.94W KLS KELSO-LONGVEIW\_AWOS WA  
744655 41.77N 88.48W KARR AURORA IL

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

- Station 000691 (R07-ARM/CART, KS) is moved from 37.50N, 96.00W to 37.09N, 95.57W and becomes KCFV (Coffeyville, KS).
- Station 000692 (R04-ARM/CART, KS) is moved from 38.00N, 98.40W to 38.35N, 97.69W and becomes KMPH (McPherson, KS).
- Station 000753 (Pontiac, IL) is moved from 40.92N, 88.63W to 40.92N, 88.62W. The character identifier is changed from PNT to KPNT.
- The character identifier for station 000758 (Winthrop, WA) is changed from WIN to WNTR.
- The character identifier for station 000763 (Covelo, CA) is changed from C31 to COV.
- Station 000810 (VANCE AFB, OK) is moved from 36.74N, 98.13W to 36.34N, 97.92W.

- Station 000764 (Branson, MO) is moved from 36.53N, 93.20W to 36.54N, 93.20W, and the character identifier is changed from BNS to KBBG.
- The numerical identifier for KEMP (Emporia, KS) is changed from 098009 to 724556.
- Station 723490 (Monett, MO) is moved from 36.88N, 93.90W to 36.91N, 94.02W, and the character identifier is changed from UMN to KHFJ.
- The character identifier for station 724375 (Bloomington/Monroe, IN) will be changed from BNG to KBMG.
- The character identifier for station 724456 (Rolla/Vichy, MO) is changed from VIH to KVIH.

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	
000647	K1A6	MIDDLESBORO/BELL_CO_APT	KY
000648	KEKQ	WAYNE_COUNTY_APT	KY

Collective 2 (JUSA42):

STATION NUMBER	STATION ID	STATION NAME	
000386	KLWV	LAWRENCEVILLE/VINCEN	IL
000387	K1H2	EFFINGHAM CO MEM APT	IL
000390	KMTO	COLES CO MEM APT	IL
000397	MQTM	MARQUETTE	MI
000398	GRMM	GRAND MARAIS	MI
000399	KTNM	KENTON	MI
000644	2I0	MADISONVILLE	KY
000645	KOVO	NORTH VERNON	IN
000646	SJS	BIG SANDY REG APT	KY
000649	KIOB	MT STERLING/MGY_CO_APT	KY
000658	KDLL	BARABOO/WI DELLS	WI
000659	KFLD	FOND DU LAC	WI
000661	KUES	WAUKESHA	WI
000662	KY50	WAUTOMA	WI
000663	KVYS	PERU	IL
000664	KMGC	MICHIGAN CITY	IN
000665	KIKK	KANKAKEE	IL

000667	KRPJ	ROCHELLE/KORITZ_FIELD	IL
000673	DDOR	DEATHS DOOR	WI
000674	KISW	WISCONSIN RAPIDS	WI
000675	TMSR	TOMS RIVER	NJ
000676	ELZB	ELIZABETHTOWN	KY
000683	ATL5	EAST OF LONG BEACH ISL	ATL
000684	ATL6	SOUTH OF MONTAUK	ATL
000698	SVL	SPRINGVILLE	NY
000699	MTG	MONTAGUE	NY
724096	KWRI	MCGUIRE_AFB	NJ
724237	KOWB	OWENSBORO	KY
724240	KFTK	FORT KNOX/GOODMAN FLD	KY
724336	KMDH	CARBONDALE	IL
724398	KDNV	DANVILLE/VERMILLION APT	IL
725326	KSQI	STERLING/ROCK FALLS	IL
726415	KJVL	JANESVILLE/DOOR_CO	WI
726455	KMTW	MANITOWOC_CO_APT	WI
744655	KARR	AURORA	IL

Collective 3 (JUSB43):

STATION NUMBER	STATION ID	STATION NAME	
000643	KPOF	POPLAR BLUFF	MO
723480	KUNO	WEST_PLAINS	MO
723565	KBVO	BARTLESVILLE	OK

Collective 4 (JUSB44):

STATION NUMBER	STATION ID	STATION NAME	
000372	FLK	FAULKTON	SD
000373	PEV	PEEVER	SD
000374	KK68	GARNETT AIRPORT	KS
000375	KMYZ	MARYSVILLE AIRPORT	KS
000376	BYG	JOHNSON_CTY/BUFFALO	WY
000377	KGEY	GREYBULL_AIRPORT	WY
000378	KMDZ	MEDFORD	WI
000379	82MN	LAKE CITY	MN
000380	KPSO	PAGOSA SPRINGS	CO
000381	KAIB	NUCLA	CO
000382	KEEO	MEEKER	CO
000383	KIOW	IOWA CITY	IA
000384	K4MB	WILKERSON PASS	CO
000385	K20V	KREMMLING	CO
000388	KGBG	GALESBURG	IL
000389	KIJX	JACKSONVILLE	IL
000391	KICR	WINNER	SD
000392	KIEN	PINE RIDGE	SD
000393	KECS	NEWCASTLE	WY
000394	UNIS	UNION CENTER	SD
000395	WGTW	WRIGHT	WY
000396	KLNL	LAND O'LAKES	WI
000629	KBVN	ALBION	NE
000630	KHNR	HARLAN	IA
000631	KLCG	WAYNE	NE

000632	PTT	PRATT	KS
000633	D55	LANGDON	ND
000634	KHCO	HALLOCK	MN
000635	IVNH	IVANHOE	MN
000636	KSPW	SPENCER	IA
000637	K9D1	GREGORY	SD
000638	RLAS	LAKE ANDES	SD
000639	KJYR	YORK	NE
000640	KLXN	LEXINGTON	NE
000641	KHJH	HEBRON	NE
000642	KPHG	PHILLIPSBURG	KS
000650	KOGA	OGALLALA	NE
000651	KTIF	THEDFORD	NE
000655	KPOY	POWELL	WY
000656	KU68	COWLEY	WY
000657	KYC	KAYCEE	WY
000660	KMRJ	MINERAL POINT	WI
000668	KRPD	RICE LAKE	WI
000669	KLJF	LITCHFIELD	MN
000670	KCNB	CANBY	MN
000671	K2V5	WRAY	CO
000672	KC1	KIT CARSON	CO
000678	K9K8	KINGMAN	KS
000679	K8K2	HARPER	KS
000680	KUKL	BURLINGTON	KS
000681	K13K	EUREKA	KS
000682	K9K7	ELLSWORTH	KS
724516	KLBL	LIBERAL	KS
724517	KGBD	GREAT BEND	KS
724520	KP28	MEDICINE LODGE	KS
724604	KEHA	ELKHART	KS
724627	KTEX	TELLURIDE	CO
724655	KHLC	HILL CITY	KS
724767	KCEZ	CORTEZ	CO
724768	KGXY	GREELEY	CO
724769	KFNL	FORT COLLINS/LOVELAND	CO
725467	KSDA	SHENANDOAH	IA
725476	KDEH	DECORAH	IA
725515	KBIE	BEATRICE	NE
725526	KEAR	KEARNEY	NE
725555	KBBW	BROKEN BOW	NE
725565	KOLU	COLUMBUS	NE
725566	KONL	O'NEILL	NE
725626	KIML	IMPERIAL	NE
725628	KHDE	HOLDREGE	NE
725717	KRIL	RIFLE	CO
726416	KLNR	LONE ROCK	WI
726515	KBKX	BROOKINGS	SD
726559	KMML	MARSHALL	MN
726567	KULM	NEW ULM	MN
726578	KLXL	LITTLE FALLS	MN
726589	KAEL	ALBERT LEA	MN
727457	KDTL	DETROIT LAKES	MN

Collective 5 (JUSB45):

STATION NUMBER	STATION ID	STATION NAME		
000654	KEMM	KEMMERER	WY	
724776	KCNY	MOAB/CANYONLANDS	UT	
724927	KLVK	LIVERMORE_MUNICIPAL	CA	

Collective 6 (JUSB46):

STATION NUMBER	STATION ID	STATION NAME		
000368	MAW	MT ADAMS WEST	WA	
000369	SHNW	MT ST HELENS NW	WA	
000370	MHW	MT HOOD WEST	OR	
000371	TSW	THREE SISTERS WEST	OR	
000652	KDUB	DUBOIS	WY	
000653	KAFO	AFTON	WY	
726664	KP60	LAKE YELLOWSTONE	WY	
727924	KLS	KELSO-LONGVEIW_AWOS	WA	

Collective 9 (JUSB49):

STATION NUMBER	STATION ID	STATION NAME		
000340	BS1	BERING SEA		
000341	BS2	BERING SEA		
000342	BS3	BERING SEA		
000765	PASA	SAVOONGA_AIRPORT	AK	
000766	PAKP	ANAKTUVUK_PASS	AK	
000767	PAGM	GAMBELL	AK	
000768	PAMY	MEKORYUK	AK	
000769	SHIV	SHIVELUCH	AK	
000770	KYMY	KARYMSKY	AK	

There are no changes to collective 7, and 8 does not exist.

For questions concerning these changes, please contact:

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NWS Technical Implementation Notices are available online at:

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