

NOUS41 KWBC 231722 AAB  
PNSWSH

Technical Implementation Notice 15-30, Amended  
National Weather Service Headquarters Washington DC  
115 PM EDT Thu Jul 22 2015

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

From: Tim McClung  
Chief Operating Officer  
NWS Office of Science and Technology Integration

Subject: Amended: Additions and Changes to the BUFR station  
lists for the NAM, RAP, HRRR and Hi-Res Windows  
Effective July 28, 2015; SREF update date TBD

Amended to reflect that the NAM, RAP, HRRR and Hi-Res Window will  
be updated on July 28 as planned. The SREF update is on hold  
until the SREF model is upgraded. Users should refer to TIN 15-32  
for the final implementation date of the SREF including the BUFR  
station update:

<http://www.nws.noaa.gov/os/notification/tin15-32srefaaa.htm>

Effective on or about Tuesday, July 28, 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)
- 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.

The same changes will be made to the Short-Range Ensemble  
Forecast System (SREF), but on a date yet to be determined. The  
date will be advertised in NWS TIN 15-32.

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	KKEO	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	KKEO	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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