

NOUS41 KWBC 221715 AAB
PNSWSH

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

To: Subscribers:
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 -NOAA Weather Wire Service
 -Emergency Managers Weather Information Network
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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, 2015 as planned. The SREF update is on hold until the
SREF model is upgraded. Users should refer to Technical Implementation
Notice (TIN) 15-32 for the final implementation date of the SREF including
the BUFR station update:

<https://www.weather.gov/media/notification/tins/tin15-32srefaae.pdf>

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 Binary Universal Form for the Representation of meteorological data
(BUFR) 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 contiguous U.S. (CONUS) nest output or the Alaska nest output.

The changes to the BUFR station lists will not result in changes to the World Meteorological Organization (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	Mount Adams West, WA
000369	46.28N	122.28W	SHNW	Mount Saint Helens Northwest, WA
000370	45.35N	121.94W	MHW	Mount 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/Bufalo, 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	Sagosa Springs, CO
000381	38.23N	108.56W	KAIB	Nucla, CO
000382	40.05N	107.89W	KEEO	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 County Memorial Airport, IL
000388	40.94N	90.43W	KGBG	Galesburg, IL
000389	39.77N	90.24W	KIJX	Jacksonville, IL
000390	39.48N	88.28W	KMTO	Coles County Memorial Airport, 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 Regional Airport, KY
000647	36.61N	83.74W	K1A6	Middlesboro/Bell County Airport, KY
000648	36.86N	84.86W	KEKQ	Wayne County Airport, KY
000649	38.06N	83.98W	KIOB	Mount Sterling/Montgomery County Apt., KY
000650	41.12N	101.77W	KOGA	Ogallala, NE
000651	41.96N	100.57W	KTIF	Theford, 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/Wisconsin 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 Island, Atlantic (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	Savooga 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	Shilveluch, 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 Air Force Base, NJ
724237	37.75N	87.16W	KOWB	Owensboro, KY
724240	37.91N	85.97W	KFTK	Fort Knox/Goodman Field, KY
724336	37.78N	89.25W	KMDH	Carbondale, IL
724398	40.12N	87.60W	KDNV	Danville/Vermillion Airport, 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 Airport, 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 County, WI
726416	43.21N	90.18W	KLNR	Lone Rock, WI
726455	44.13N	87.68W	KMTW	Manitowoc County Airport, WI
726515	44.31N	96.82W	KBKX	Brooksings, 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-Longview 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	Middleboro/Bell County Airport, KY
000648	KEKQ	Wayne_County Airport, KY

Collective 2 (JUSA42):

Station Number	Station ID	Station Name
000386	KLWV	Lawrenceville/Vincen, IL
000387	K1H2	Effingham County Memorial Airport, IL
000390	KMTO	Coles County Memorial Airport, IL

000397	MQTM	Marquette, MI
000398	GRMM	Grand Marais, MI
000399	KTNM	Kenton, MI
000644	2IO	Madisonville, KY
000645	KOVO	North Vernon, IN
000646	SJS	Big Sandy Regional Airport, KY
000649	KIOB	Mounty Sterling/Montgomery County Airport, KY
000658	KDLL	Baraboo/Wisconsin 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 Island, ATL
000684	ATL6	South of Montauk, ATL
000698	SVL	Springville, NY
000699	MTG	Montague, NY
724096	KWRI	McGuire CGUIRE AIR FORCE BASE, NJ
724237	KOWB	Owensboro, KY
724240	KFTK	Fort Knox/Goodman Field, KY
724336	KMDH	Carbondale, IL
724398	KDNV	Danville/Vermillion Airport, IL
725326	KSQI	Sterling/Rock Falls, IL
726415	KJVL	Janesville/Door County, WI
726455	KMTW	Manitowoc County Airport, WI
744655	KARR	Aurora, IL

Collective 3 (JUSB43):

Station Number	Station ID	Station Name
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000643	KPOF	Poplar Bluff, MO
723480	KUNO	West Plains, MO
723565	KBVO	Bartlesville, OK

Collective 4 (JUSB44):

Station Number	Station ID	Station Name
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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

Collective 4 (JUSB44) (continued):

Station Number	Station ID	Station Name
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000642	KPHG	Phillipsburg, KS
000650	KOGA	Ogallala, NE
000651	KTIF	Theford, 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 Airport, CA

Collective 6 (JUSB46):

Station Number	Station ID	Station Name
000368	MAW	Mount Adams West, WA
000369	SHNW	Mount Saint Helens Northwest, WA
000370	MHW	Mount 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-Longview 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	Savooga Airport, AK
000766	PAKP	Anaktuvuk Pass, AK
000767	PAGM	Gambell, AK
000768	PAMY	Mekoryuk, AK
000769	SHIV	Shiveluch, AK

000770 KYYM Karymsky, AK

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

For questions concerning these changes, please contact:

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National Technical Implementation Notices are online at:

<https://www.weather.gov/notification/archive>

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