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## Supplemental Material

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Analysis of a Nonconvective Mesoscale Windstorm and Wildfire Outbreak in Kansas on 15 December  
2021

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# **Supplement to “Analysis of a Nonconvective Mesoscale Windstorm and Wildfire Outbreak in Kansas on 15 December 2021”**

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## 1. Summary

This supplement contains hourly and special METAR observations from 1200 UTC 15 through 0600 UTC 16 December 2021. These observations are from the ASOS stations identified in Fig. 7 (marked by an unfilled black circle) that experienced high wind gusts associated with the passage of the cloud head. These data were obtained from the Iowa State University Automated Surface Observing System network archive available online at <https://mesonet.agron.iastate.edu/ASOS/>.

## 2. METAR observations

### Goodland, Kansas (GLD):

KGLD 151153Z AUTO 20011KT 10SM CLR 09/M01 A2955 RMK AO2 SLP989 T00891006 10139 20089 58024  
KGLD 151253Z AUTO 18011KT 10SM CLR 06/00 A2949 RMK AO2 SLP980 T00610000  
KGLD 151353Z AUTO 18011KT 10SM CLR 07/01 A2943 RMK AO2 SLP962 T00670006  
KGLD 151453Z AUTO 18023G31KT 10SM CLR 14/02 A2938 RMK AO2 PK WND 19032/1429 SLP929 T01390017  
56050  
KGLD 151553Z AUTO 18021G30KT 10SM CLR 13/01 A2934 RMK AO2 PK WND 18033/1455 SLP912 T01330006  
KGLD 151653Z AUTO 19024G40KT 9SM FEW050 14/M01 A2929 RMK AO2 PK WND 19040/1649 SLP893 T01441011  
KGLD 151701Z AUTO 23036G49KT 1 3/4SM HZ BKN031 15/01 A2928 RMK AO2 PK WND 21049/1659 T01500011  
KGLD 151708Z AUTO 23033G52KT 1SM HZ VV020 13/03 A2928 RMK AO2 PK WND 22052/1705 T01330033  
KGLD 151722Z AUTO 23034G56KT 3/4SM -RA VV015 13/M01 A2927 RMK AO2 PK WND 22063/1712 RAB16 P0000  
T01281006  
KGLD 151726Z AUTO 23025G50KT 1SM HZ VV012 12/M01 A2926 RMK AO2 PK WND 22063/1712 RAB16E26 PRESFR  
P0000 T01171006  
KGLD 151731Z AUTO 22018G44KT 2SM HZ FEW004 OVC011 12/M01 A2925 RMK AO2 PK WND 22063/1712 RAB16E26  
PRESFR P0000 T01171006  
KGLD 151740Z AUTO 21020G27KT 4SM HZ FEW004 BKN011 OVC100 12/00 A2924 RMK AO2 PK WND 22063/1712  
RAB16E26 P0000 T01220000  
KGLD 151753Z AUTO 21027G39KT 10SM FEW006 OVC110 12/01 A2924 RMK AO2 PK WND 22063/1712 RAB16E26  
SLP879 P0000 60000 T01220006 10150 20061 58042  
KGLD 151819Z AUTO 23032G53KT 2 1/2SM HZ BKN021 BKN090 OVC110 11/M06 A2923 RMK AO2 PK WND  
22053/1815 T01111061  
KGLD 151832Z AUTO 22034G55KT 4SM HZ BKN025 OVC050 11/M07 A2922 RMK AO2 PK WND 22055/1828  
T01111067  
KGLD 151851Z AUTO 22036G59KT 3SM HZ OVC031 11/M09 A2919 RMK AO2 PK WND 21059/1847  
KGLD 151853Z AUTO 22031G59KT 2 1/2SM HZ OVC031 11/M09 A2919 RMK AO2 PK WND 21059/1847 SLP862  
T01111094  
KGLD 151908Z AUTO 24030G45KT 3SM HZ BKN029 OVC035 11/M08 A2918 RMK AO2 PK WND 23048/1856  
T01111083  
KGLD 151950Z AUTO 27029G40KT 9SM SCT035 BKN050 BKN065 12/M05 A2919 RMK AO2 PK WND 23048/1856  
KGLD 151953Z AUTO 27031G43KT 8SM BKN040 BKN050 BKN065 11/M04 A2919 RMK AO2 PK WND 23048/1856  
PRESRR SLP861 T01111044  
KGLD 152017Z AUTO 32047G70KT 2 1/2SM -RA BKN032 OVC045 06/03 A2932 RMK AO2 PK WND 31070/2010  
RAB00 PRESRR P0000 T00610033  
KGLD 152024Z AUTO 31040G68KT 3SM -RA BKN028 OVC047 06/03 A2936 RMK AO2 PK WND 31070/2010 RAB00  
P0000 T00610033  
KGLD 152053Z AUTO 31034G48KT 8SM -RA FEW026 OVC031 06/03 A2946 RMK AO2 PK WND 31070/2010 RAB00  
SLP961 P0003 60003 T00610028 53081  
KGLD 152153Z AUTO 33015G28KT 4SM HZ BKN032 OVC041 07/01 A2955 RMK AO2 PK WND 31057/2054 RAE12  
PRESRR SLP991 P0000 T00720011  
KGLD 152219Z AUTO 34015G23KT 4SM HZ OVC028 07/01 A2958 RMK AO2 PRESRR T00670006  
KGLD 152233Z AUTO 34017G25KT 2SM HZ OVC024 07/M01 A2960 RMK AO2 T00671011  
KGLD 152243Z AUTO 34016G23KT 5SM HZ OVC026 06/M01 A2962 RMK AO2 T00611011  
KGLD 152253Z AUTO 34019G31KT 7SM OVC032 06/M01 A2963 RMK AO2 PK WND 34031/2250 SLP024 T00611011  
KGLD 152342Z AUTO 33021G29KT 10SM OVC024 03/M04 A2966 RMK AO2 PK WND 33034/2310 PRESFR T00281039  
KGLD 152353Z AUTO 33021G35KT 10SM OVC022 03/M04 A2967 RMK AO2 PK WND 33035/2351 SLP044 60003  
T00281044 10133 20028 51064  
KGLD 160017Z AUTO 34025G37KT 10SM SCT020 02/M07 A2970 RMK AO2 PK WND 34037/0014 T00171067  
KGLD 160053Z AUTO 34014G27KT 10SM CLR 01/M07 A2978 RMK AO2 PK WND 34037/0014 PRESRR SLP089  
T00061067  
KGLD 160153Z AUTO 33005KT 10SM CLR M02/M08 A2983 RMK AO2 SLP110 T10171078  
KGLD 160253Z AUTO 33012KT 10SM CLR M02/M08 A2985 RMK AO2 SLP108 T10171078 51056  
KGLD 160353Z AUTO 28007KT 10SM CLR M03/M08 A2988 RMK AO2 SLP121 T10331083  
KGLD 160453Z AUTO 29007KT 10SM CLR M04/M08 A2992 RMK AO2 SLP132 T10391083

KGLD 160553Z AUTO 31011KT 10SM CLR M05/M09 A2994 RMK AO2 SLP143 T10501089 10028 21056 51025

**McCook, Nebraska (MCK):**

KMCK 151153Z AUTO 00000KT 10SM CLR 02/M06 A2952 RMK AO2 SLP002 T00171056 10061 20000 58021  
KMCK 151253Z AUTO 12003KT 10SM CLR 01/M06 A2949 RMK AO2 SLP995 T00061056  
KMCK 151353Z AUTO 20006KT 10SM CLR 07/M01 A2944 RMK AO2 SLP974 T00721011  
KMCK 151453Z AUTO 17006KT 10SM CLR 08/01 A2939 RMK AO2 PRESFR SLP956 T00830006 58040  
KMCK 151553Z AUTO 18019G30KT 8SM CLR 14/02 A2935 RMK AO2 PK WND 18030/1548 WSHFT 1539 SLP936  
T01390017  
KMCK 151600Z AUTO 18017G29KT 10SM CLR 14/02 A2934 RMK AO2 PK WND 17029/1557 WSHFT 1540 T01440017  
KMCK 151653Z AUTO 18026G40KT 6SM HZ CLR 18/M01 A2929 RMK AO2 PK WND 18040/1653 WSHFT 1540 SLP916  
T01781006  
KMCK 151753Z AUTO 19028G42KT 5SM HZ CLR 18/01 A2922 RMK AO2 PK WND 18044/1707 PRESFR SLP889  
T01830006 10183 21011 58055  
KMCK 151808Z AUTO 20032G52KT 1 3/4SM HZ BKN035 19/01 A2921 RMK AO2 PK WND 18052/1804 T01890006  
KMCK 151827Z AUTO 21029G44KT 1SM HZ BKN027 OVC035 18/02 A2919 RMK AO2 PK WND 20057/1817 T01830017  
KMCK 151853Z AUTO 20023G37KT 1 1/2SM HZ BKN022 OVC028 17/M02 A2918 RMK AO2 PK WND 20057/1817  
SLP878 T01671017  
KMCK 151901Z AUTO 21028G41KT 3SM HZ BKN021 BKN085 17/M03 A2917 RMK AO2 PK WND 19041/1854  
T01671033  
KMCK 151908Z AUTO 22022G41KT 3SM HZ SCT021 BKN085 17/M05 A2917 RMK AO2 PK WND 19041/1854  
T01671050  
KMCK 151921Z AUTO 23026G47KT 2SM HZ SCT026 OVC090 16/M03 A2917 RMK AO2 PK WND 23047/1912  
T01561033  
KMCK 151926Z AUTO 23028G46KT 3SM HZ BKN028 BKN090 17/M03 A2918 RMK AO2 PK WND 23047/1912  
T01671028  
KMCK 151934Z AUTO 23029G46KT 2 1/2SM HZ BKN030 BKN036 OVC100 16/M04 A2917 RMK AO2 PK WND  
23047/1912 T01561044  
KMCK 151948Z AUTO 22032G43KT 3SM HZ OVC030 15/M04 A2917 RMK AO2 PK WND 23047/1912  
KMCK 151953Z AUTO 22031G43KT 4SM HZ OVC032 14/M04 A2916 RMK AO2 PK WND 23047/1912 SLP872  
T01441044  
KMCK 152053Z AUTO 26028G46KT 2 1/2SM -RA BKN045 BKN060 OVC075 08/02 A2921 RMK AO2 PK WND  
26046/2050 VIS 1 1/2V4 RAB35 PRESRR SLP893 P0000 60000 T00830022 53008  
KMCK 152105Z AUTO 26024G37KT 1SM RA FEW025 BKN035 OVC055 06/03 A2922 RMK AO2 PK WND 26043/2054  
PRESRR P0003 T00610033  
KMCK 152120Z AUTO 31042G61KT 1SM RA FEW016 FEW022 OVC029 06/03 A2926 RMK AO2 PK WND 33061/2117  
WSHFT 2106 P0009 T00560028  
KMCK 152138Z AUTO 30022G48KT 3SM -RA BR FEW016 OVC030 04/02 A2931 RMK AO2 PK WND 33061/2117 WSHFT  
2106 P0013 T00390017  
KMCK 152153Z AUTO 29030G48KT 8SM FEW016 BKN043 OVC070 04/01 A2936 RMK AO2 PK WND 33061/2117 WSHFT  
2106 RAE46 SLP951 P0013 T00440011  
KMCK 152253Z AUTO 29026G43KT 7SM OVC090 03/M02 A2955 RMK AO2 PK WND 29055/2225 PRESRR SLP021  
T00331022  
KMCK 152353Z AUTO 29018G30KT 10SM CLR 02/M04 A2965 RMK AO2 PK WND 30049/2315 SLP056 60013  
T00171039 10189 20017 51137  
KMCK 160053Z AUTO 30024G38KT 10SM CLR 01/M06 A2968 RMK AO2 PK WND 31038/0045 SLP069 T00111061  
KMCK 160153Z AUTO 31018G32KT 10SM CLR 01/M06 A2975 RMK AO2 PK WND 32038/0112 SLP086 T00061061  
KMCK 160253Z AUTO 32009KT 10SM CLR M01/M07 A2984 RMK AO2 PK WND 29026/0154 SLP116 T10061067 53060  
KMCK 160353Z AUTO 00000KT 10SM CLR M02/M07 A2987 RMK AO2 SLP123 T10171067  
KMCK 160453Z AUTO 29008KT 10SM CLR M02/M07 A2989 RMK AO2 SLP124 T10171067  
KMCK 160553Z AUTO 28009KT 10SM CLR M02/M07 A2991 RMK AO2 SLP131 T10221072 10017 21028 401891028  
51022

**Hill City, Kansas (HLC):**

KHLC 151153Z AUTO 27003KT 10SM CLR 12/00 A2960 RMK AO2 SLP020 T01170000 10122 20100 58015  
KHLC 151253Z AUTO VRB05KT 10SM CLR 12/00 A2958 RMK AO2 SLP013 T01220000  
KHLC 151353Z AUTO 19010G20KT 10SM CLR 13/01 A2952 RMK AO2 SLP993 T01280006  
KHLC 151453Z AUTO 18011G18KT 10SM CLR 12/M01 A2950 RMK AO2 SLP984 T01171006 58033  
KHLC 151553Z AUTO 18017G30KT 10SM CLR 16/02 A2945 RMK AO2 PK WND 20030/1549 SLP961 T01610017  
KHLC 151653Z AUTO 17024G41KT 9SM CLR 18/07 A2940 RMK AO2 PK WND 18041/1644 PRESFR SLP946  
T01780067  
KHLC 151753Z AUTO 19021G39KT 5SM HZ CLR 21/08 A2932 RMK AO2 PK WND 18042/1706 PRESFR SLP915  
T02060078 10206 20111 58056  
KHLC 151827Z AUTO 24027G54KT 2SM -RA BKN035 BKN042 OVC075 15/09 A2931 RMK AO2 PK WND 22054/1822  
LTG DSNT NW RAB21 P0003 T01500089  
KHLC 151832Z AUTO 25024G50KT 5SM -RA BKN037 BKN044 OVC060 14/07 A2931 RMK AO2 PK WND 22054/1822  
WSHFT 1818 LTG DSNT N AND NW RAB21 P0003 T01390072  
KHLC 151853Z AUTO 22015G29KT 5SM HZ BKN032 BKN046 OVC110 14/06 A2929 RMK AO2 PK WND 22054/1822  
WSHFT 1818 LTG DSNT NE AND E RAB21E35 SLP909 P0003 T01390061

KHLK 151953Z AUTO 23032G54KT 1 1/2SM HZ BKN026 OVC034 16/M09 A2927 RMK AO2 PK WND 23059/1938  
 SLP899 T01611089  
 KHLK 152017Z AUTO 24035G62KT 2SM HZ BKN028 OVC036 16/M12 A2925 RMK AO2 PK WND 22062/2017  
 T01611117  
 KHLK 152021Z AUTO 23037G62KT 1 3/4SM HZ BKN030 OVC039 16/M12 A2925 RMK AO2 PK WND 22062/2017  
 T01611117  
 KHLK 152030Z AUTO 22037G56KT 1 1/4SM HZ BKN028 OVC034 16/M12 A2924 RMK AO2 PK WND 22062/2017  
 T01611117  
 KHLK 152045Z AUTO 23038G66KT 1/4SM -RA BKN017 OVC033 14/M04 A2924 RMK AO2 PK WND 23066/2038 RAB41  
 P0000 T01391044  
 KHLK 152053Z AUTO 22036G65KT 1/4SM -RA VV010 12/00 A2923 RMK AO2 PK WND 23066/2038 RAB41 SLP892  
 P0000 60003 T01220000 56027  
 KHLK 152106Z AUTO 23035G62KT 1/2SM -RA VV009 12/01 A2922 RMK AO2 PK WND 23066/2055 PRESFR P0000  
 T01220011  
 KHLK 152115Z AUTO 25040G59KT 1/2SM HZ VV011 13/02 A2922 RMK AO2 PK WND 23066/2055 RAE10 P0000  
 T01280022  
 KHLK 152153Z AUTO 29040G65KT 4SM -RA 08/04 A2941 RMK AO2 PK WND 29070/2136 RAE10B35 SLP956 P0000  
 T00830044 \$  
 KHLK 152228Z AUTO 29032G48KT 4SM HZ OVC027 09/02 A2946 RMK AO2 PK WND 28058/2156 RAE14 P0001  
 T00890017 \$  
 KHLK 152253Z AUTO 29035G57KT 6SM HZ SCT023 08/M01 A2952 RMK AO2 PK WND 28058/2156 RAE14 PRESRR  
 SLP991 P0001 T00831011 \$  
 KHLK 160053Z AUTO 30022G31KT 9SM CLR 04/M04 A2972 RMK AO2 PK WND 28047/2357 SLP064 T00441044 \$  
 KHLK 160153Z AUTO 31014G31KT 10SM CLR 03/M05 A2980 RMK AO2 PK WND 30032/0133 PRESRR SLP091  
 T00331050 \$  
 KHLK 160253Z AUTO 29009G22KT 10SM CLR 02/M06 A2985 RMK AO2 PK WND 31026/0215 SLP114 T00221061  
 51069 \$  
 KHLK 160353Z AUTO 31011G17KT 10SM CLR 02/M06 A2989 RMK AO2 SLP124 T00171061 \$  
 KHLK 160453Z AUTO 28006KT 10SM CLR 01/M06 A2992 RMK AO2 SLP131 T00061061 \$  
 KHLK 160553Z AUTO 25006KT 10SM CLR M01/M07 A2995 RMK AO2 SLP140 T10111067 10072 21011 402171011  
 51030 \$

**Hays, Kansas (HYS):**

KHYS 151156Z AUTO 20016KT 10SM CLR 12/M03 A2965 RMK AO2 SLP038 T01221028 10139 20111 56015 \$  
 KHYS 151256Z AUTO 20009KT 10SM CLR 11/M03 A2963 RMK AO2 SLP035 T01111028 \$  
 KHYS 151356Z AUTO 18009KT 10SM CLR 12/M01 A2960 RMK AO2 SLP023 T01171006 \$  
 KHYS 151456Z AUTO 18019G25KT 10SM CLR 13/06 A2955 RMK AO2 SLP001 T01330056 58034 \$  
 KHYS 151556Z AUTO 18024G31KT 10SM CLR 14/09 A2950 RMK AO2 PK WND 17031/1554 SLP985 T01390094 \$  
 KHYS 151656Z AUTO 18033G37KT 10SM CLR 18/11 A2945 RMK AO2 PK WND 18037/1654 SLP964 T01780111 \$  
 KHYS 151756Z AUTO 19033G50KT 5SM HZ CLR 21/11 A2938 RMK AO2 PK WND 19050/1747 SLP938 T02110111  
 10211 20100 58054 \$  
 KHYS 151853Z AUTO 24036G51KT 1 1/4SM HZ FEW008 BKN034 OVC045 22/07 A2933 RMK AO2 PK WND  
 21051/1847 VIS 1/4V5 \$  
 KHYS 151856Z AUTO 24031G51KT 3/4SM HZ FEW008 BKN037 OVC045 20/04 A2933 RMK AO2 PK WND 21051/1847  
 SLP923 T02000044 \$  
 KHYS 151901Z AUTO 23031G41KT 1/2SM HZ BKN010 BKN030 OVC042 18/04 A2933 RMK AO2 PK WND 24040/1900  
 CIG 008V015 \$  
 KHYS 151911Z AUTO 23028G43KT 1/2SM HZ SCT004 BKN013 OVC033 18/04 A2935 RMK AO2 PK WND 24043/1909  
 \$  
 KHYS 151913Z AUTO 22031G43KT 3/4SM HZ SCT004 BKN009 OVC033 18/04 A2935 RMK AO2 PK WND 24043/1909  
 CIG 008V011 \$  
 KHYS 151921Z AUTO 23033G44KT 1SM -RA FEW004 SCT010 OVC017 16/06 A2934 RMK AO2 PK WND 23044/1916  
 LTG DSNT NE RAB15 P0000 \$  
 KHYS 151951Z AUTO 23046G58KT 1/2SM HZ FEW011 BKN019 OVC027 19/M11 A2932 RMK AO2 PK WND 23058/1949  
 RAB15E25 P0000 \$  
 KHYS 151956Z AUTO 24041G58KT 1/2SM HZ SCT009 BKN013 OVC027 18/M13 A2932 RMK AO2 PK WND 23058/1949  
 RAB15E25 SLP919 P0000 T01831133 \$  
 KHYS 152011Z AUTO 23042G62KT 3/4SM HZ FEW004 SCT009 OVC016 18/M16 A2933 RMK AO2 PK WND 24062/2004  
 \$  
 KHYS 152035Z AUTO 23046G55KT 1/2SM HZ SCT004 OVC016 17/M14 A2933 RMK AO2 PK WND 24062/2004 \$  
 KHYS 152042Z AUTO 23043G61KT 3/4SM HZ BKN004 OVC016 17/M15 A2934 RMK AO2 PK WND 24062/2004 \$  
 KHYS 152056Z AUTO 23043G64KT 1SM HZ SCT004 OVC020 17/M15 A2935 RMK AO2 PK WND 24064/2047 SLP929  
 60000 T01721150 55010 \$  
 KHYS 152114Z AUTO 24047G57KT 3/4SM HZ FEW004 BKN018 OVC023 17/M12 A2937 RMK AO2 PK WND 25057/2112  
 \$  
 KHYS 152118Z AUTO 24048G69KT 1/2SM HZ SCT004 BKN014 OVC020 17/M10 A2938 RMK AO2 PK WND 24069/2118  
 PRESRR \$  
 KHYS 152123Z AUTO 25051G69KT 1/4SM HZ SCT004 BKN008 OVC017 15/M04 A2940 RMK AO2 PK WND 24069/2118  
 CIG 007V012 PRESRR \$

KHYS 152136Z AUTO 24050G73KT 3/4SM HZ SCT004 BKN008 OVC024 12/01 A2942 RMK AO2 PK WND 25073/2131  
CIG 007V012 PRESRR \$  
KHYS 152141Z AUTO 24048G58KT 1SM HZ SCT004 BKN018 OVC035 12/02 A2944 RMK AO2 PK WND 25073/2131  
PRESRR \$  
KHYS 152149Z AUTO 26045G58KT 1 1/4SM HZ FEW004 SCT009 OVC033 11/03 A2946 RMK AO2 PK WND  
25073/2131 PRESRR \$  
KHYS 152156Z AUTO 27046G65KT 1SM HZ FEW004 BKN024 OVC033 11/03 A2948 RMK AO2 PK WND 25073/2131  
PRESRR SLP981 T01110028 \$

**Russell, Kansas (RSL):**

KRSL 151153Z AUTO 19020KT 10SM CLR 13/M02 A2964 RMK AO2 PK WND 18026/1146 SLP034 T01331017 10161  
20128 58015  
KRSL 151253Z AUTO 18016G24KT 10SM CLR 13/00 A2963 RMK AO2 PK WND 19026/1203 SLP029 T01330000  
KRSL 151353Z AUTO 18020G30KT 10SM CLR 14/03 A2960 RMK AO2 PK WND 18030/1347 SLP019 T01390033  
KRSL 151453Z AUTO 17025G36KT 10SM CLR 15/08 A2954 RMK AO2 PK WND 18036/1450 PRESFR SLP998  
T01500083 58031  
KRSL 151553Z AUTO 17028G38KT 10SM CLR 16/10 A2951 RMK AO2 PK WND 18041/1459 SLP987 T01560100  
KRSL 151653Z AUTO 17031G41KT 10SM CLR 18/12 A2947 RMK AO2 PK WND 17047/1631 SLP969 T01830117  
KRSL 151753Z AUTO 18036G49KT 10SM SCT028 22/12 A2941 RMK AO2 PK WND 18049/1753 SLP948 T02170117  
10217 20128 58043  
KRSL 151800Z AUTO 18033G51KT 10SM BKN028 22/12 A2940 RMK AO2 PK WND 18051/1800 PRESFR T02170117  
KRSL 151853Z AUTO 19038G53KT 8SM OVC028 24/09 A2932 RMK AO2 PK WND 19056/1835 PRESFR SLP917  
T02390094  
KRSL 151926Z AUTO 23043G74KT 4SM HZ SCT031 BKN044 OVC090 22/07 A2931 RMK AO2 PK WND 23074/1924  
LTG DSNT N T02220067  
KRSL 151929Z AUTO 24039G74KT 2 1/2SM -RA BKN029 BKN042 OVC090 18/07 A2933 RMK AO2 PK WND  
23074/1924 LTG DSNT N RAB27 PRESRR P0000 T01830072  
KRSL 151937Z AUTO 23030G53KT 1 1/2SM -RA BKN022 BKN042 OVC090 16/08 A2933 RMK AO2 PK WND  
23074/1924 RAB27 P0001 T01560078  
KRSL 151953Z AUTO 22034G49KT 1 1/2SM HZ BKN021 OVC031 17/06 A2931 RMK AO2 PK WND 23074/1924  
RAB27E43 SLP916 P0001 T01670056  
KRSL 152005Z AUTO 22038G55KT 2SM HZ BKN023 OVC032 18/M01 A2930 RMK AO2 PK WND 21055/1959  
T01831006  
KRSL 152013Z AUTO 23046G64KT 1 1/2SM HZ BKN021 OVC032 19/M05 A2930 RMK AO2 PK WND 23064/2012  
T01891050  
KRSL 152024Z AUTO 22046G64KT 3/4SM HZ VV016 19/M12 A2931 RMK AO2 PK WND 22064/2024 T01941122  
KRSL 152037Z AUTO 24051G74KT 1/2SM HZ VV014 19/M16 A2932 RMK AO2 PK WND 25074/2032 T01891156  
KRSL 152044Z AUTO 23046G68KT 1SM HZ VV015 19/M16 A2932 RMK AO2 PK WND 25074/2032 T01891156  
KRSL 152053Z AUTO 23051G68KT 1SM HZ VV017 19/M16 A2933 RMK AO2 PK WND 25074/2032 SLP922 60001  
T01891156 55026  
KRSL 152145Z AUTO 25057G79KT 1/2SM -RA VV015 15/M01 A2943 RMK AO2 PK WND 24079/2138 RAB41 PRESRR  
P0000 T01501006  
KRSL 152153Z AUTO 25052G87KT 1/4SM -RA VV012 14/01 A2945 RMK AO2 PK WND 26087/2148 RAB41 PRESRR  
SLP966 P0000 T01390011  
KRSL 152200Z AUTO 25048G70KT 3/4SM HZ VV012 13/02 A2947 RMK AO2 PK WND 25065/2154 RAE2159 P0000  
T01330022  
KRSL 152207Z AUTO 25043G65KT 1 1/4SM HZ OVC013 12/03 A2949 RMK AO2 PK WND 24065/2201 RAE2159  
P0000 T01220028  
KRSL 152231Z AUTO 26042G67KT 5SM HZ BKN025 OVC038 12/02 A2955 RMK AO2 PK WND 26067/2223 RAE2159  
P0000 T01170022  
KRSL 152253Z AUTO 25033G57KT 7SM OVC029 11/02 A2958 RMK AO2 PK WND 26067/2223 RAE2159 SLP014  
P0000 T01110017  
KRSL 160010Z AUTO 27029G42KT 10SM OVC038 11/M02 A2969 RMK AO2 PK WND 28042/0007 T01111022  
KRSL 160053Z AUTO 27022G35KT 10SM OVC065 09/M04 A2973 RMK AO2 PK WND 28042/0007 SLP065 T00941039  
KRSL 160124Z AUTO 29019G33KT 10SM BKN024 09/M04 A2977 RMK AO2 PK WND 29033/0118 PRESRR T00891044  
KRSL 160153Z AUTO 29019G31KT 7SM OVC022 07/M05 A2979 RMK AO2 PK WND 29033/0118 SLP089 T00721050  
KRSL 160253Z AUTO 31021G28KT 6SM HZ OVC019 05/M06 A2983 RMK AO2 PK WND 31028/0250 SLP103  
T00501061 51051  
KRSL 160333Z AUTO 31014G27KT 4SM HZ OVC014 04/M07 A2986 RMK AO2 PK WND 31031/0320 T00391072  
KRSL 160353Z AUTO 30014KT 6SM HZ FEW013 03/M07 A2988 RMK AO2 PK WND 31031/0320 SLP122 T00331072  
KRSL 160453Z AUTO 31015KT 8SM CLR 03/M07 A2991 RMK AO2 SLP130 T00281072  
KRSL 160553Z AUTO 31011KT 9SM CLR 01/M07 A2993 RMK AO2 SLP134 T00111072 10111 20011 402390011  
53015

**Hutchinson, Kansas (HUT):**

KHUT 151152Z 18014KT 10SM CLR 13/11 A2976 RMK AO2 SLP068 T01330111 10144 20133 58013  
KHUT 151252Z 18019G27KT 10SM CLR 14/12 A2974 RMK AO2 PK WND 17027/1246 SLP060 T01390122  
KHUT 151343Z 18017G25KT 10SM BKN012 14/13 A2973 RMK AO2 PK WND 17028/1314 T01440128  
KHUT 151352Z 18018G28KT 10SM OVC012 15/13 A2974 RMK AO2 PK WND 17028/1349 SLP056 T01500128

KHUT 151440Z 17018G29KT 10SM OVC016 16/13 A2971 RMK AO2 PK WND 18029/1432 T01560133  
 KHUT 151452Z 18022G31KT 10SM OVC016 16/13 A2970 RMK AO2 PK WND 17031/1443 SLP042 T01610133 58021  
 KHUT 151552Z 18023G34KT 10SM OVC016 17/14 A2966 RMK AO2 PK WND 17034/1537 SLP028 T01720139  
 KHUT 151652Z 18030G39KT 10SM OVC021 19/14 A2961 RMK AO2 PK WND 18039/1652 SLP010 T01890139  
 KHUT 151740Z 17034G52KT 10SM OVC031 21/13 A2955 RMK AO2 PK WND 18052/1732 T02110133  
 KHUT 151752Z 18028G42KT 10SM BKN031 21/14 A2954 RMK AO2 PK WND 18052/1732 SLP987 T02110139 10211  
 20133 58050  
 KHUT 151852Z 19038G49KT 10SM BKN033 23/14 A2949 RMK AO2 PK WND 19058/1818 SLP968 T02280139  
 KHUT 151952Z 19028G47KT 10SM SCT033 BKN041 OVC055 23/13 A2944 RMK AO2 PK WND 17054/1906 SLP951  
 T02330128  
 KHUT 152052Z 19032G51KT 9SM FEW039 SCT090 BKN110 23/12 A2938 RMK AO2 PK WND 19055/2017 LTG DSNT N  
 SLP930 T02330122 58052  
 KHUT 152104Z 25029G51KT 4SM -RA SQ FEW040 SCT055 BKN070 20/09 A2945 RMK AO2 PK WND 21051/2056 LTG  
 DSNT N RAB2053 PRESRR P0001 T02000089  
 KHUT 152110Z 23026G40KT 2SM VCTS BLDU SQ SCT036 BKN048 OVC110 20/06 A2945 RMK AO2 PK WND  
 21051/2056 WSHFT 2052 LTG DSNT N RAB2053E09 P0001 T02000061  
 KHUT 152131Z 24025G49KT 2 1/2SM BLDU BKN035 OVC042 22/01 A2947 RMK AO2 PK WND 21051/2056 WSHFT  
 2052 LTG DSNT E RAB2053E09 P0001 T02170006  
 KHUT 152152Z 24033G52KT 1 1/2SM BLDU OVC033 22/M03 A2950 RMK AO2 PK WND 25059/2137 WSHFT 2052 LTG  
 DSNT E AND SE RAB2053E09 SLP974 P0001 T02171033  
 KHUT 152208Z 25044G65KT 2SM DS BKN029 OVC037 22/M07 A2953 RMK AO2 PK WND 25065/2208 LTG DSNT E  
 PRESRR T02171067  
 KHUT 152219Z 25039G63KT 1 3/4SM DS OVC027 22/M10 A2955 RMK AO2 PK WND 25065/2208 PRESRR T02171100  
 KHUT 152231Z 26042G69KT 1/2SM R13/6000VP6000FT DS OVC023 21/M14 A2955 RMK AO2 PK WND 26069/2229  
 T02111139  
 KHUT 152252Z 26029G56KT 1/2SM DS OVC025 21/M16 A2964 RMK AO2 PK WND 27073/2234 SLP020 T02111161  
 RVRNO  
 KHUT 152259Z 27033G47KT 1SM DS OVC023 20/M15 A2965 RMK AO2 PK WND 28047/2259 T02001150 RVRNO  
 KHUT 152307Z 28028G48KT 3/4SM DS VV020 18/M06 A2966 RMK AO2 PK WND 28048/2304 T01831061 RVRNO  
 KHUT 152314Z COR 28024G48KT 1 1/2SM DS OVC021 17/M01 A2967 RMK AO2 PK WND 28048/2304 T01671006 \$  
 KHUT 152321Z 28025G41KT 1SM DS VV020 17/M01 A2968 RMK AO2 PK WND 28048/2304 T01671006 RVRNO \$  
 KHUT 152335Z 28023G36KT 3SM DS OVC021 17/02 A2970 RMK AO2 PK WND 28048/2304 T01670022 \$  
 KHUT 152352Z 28023G31KT 5SM DU OVC021 17/02 A2971 RMK AO2 PK WND 28048/2304 SLP047 60001  
 T01670022 10244 20167 51106 \$  
 KHUT 160032Z 28017G24KT 10SM CLR 15/03 A2973 RMK AO2 T01500028 \$  
 KHUT 160052Z 29015G22KT 10SM CLR 14/03 A2975 RMK AO2 SLP062 T01390028 \$  
 KHUT 160152Z 30015G22KT 10SM CLR 13/02 A2979 RMK AO2 SLP077 T01280022 \$  
 KHUT 160252Z 30019G31KT 10SM CLR 12/M01 A2980 RMK AO2 SLP079 T01221011 51030 \$  
 KHUT 160352Z 31016G23KT 10SM CLR 10/M03 A2984 RMK AO2 SLP095 T01001028 \$  
 KHUT 160452Z AUTO A2988 RMK AO2 SLPNO PWINO FZRANO RVRNO \$  
 KHUT 160552Z AUTO A2991 RMK AO2 SLPNO 402441044 51038 PWINO FZRANO RVRNO \$

**Concordia, Kansas (CNK):**

KCNK 151155Z AUTO 20022G36KT 10SM CLR 16/06 A2964 RMK AO2 PK WND 20036/1148 SLP033 T01560056  
 10161 20128 56018  
 KCNK 151255Z AUTO 19024G35KT 10SM CLR 16/07 A2963 RMK AO2 PK WND 19035/1252 SLP029 T01560067  
 KCNK 151355Z AUTO 19022G34KT 10SM CLR 14/09 A2963 RMK AO2 PK WND 19036/1330 SLP026 T01440094  
 KCNK 151455Z AUTO 18024G35KT 10SM CLR 16/12 A2959 RMK AO2 PK WND 18035/1455 SLP013 T01560117  
 58017  
 KCNK 151555Z AUTO 17027G41KT 10SM CLR 17/13 A2956 RMK AO2 PK WND 18044/1545 SLP002 T01720128  
 KCNK 151655Z AUTO 18031G47KT 10SM CLR 19/13 A2951 RMK AO2 PK WND 18047/1650 SLP984 T01890133  
 KCNK 151755Z AUTO 19037G47KT 10SM FEW024 21/13 A2945 RMK AO2 PK WND 18054/1743 SLP964 T02060133  
 10206 20144 58044  
 KCNK 151855Z AUTO 19034G47KT 10SM CLR 23/14 A2938 RMK AO2 PK WND 18051/1812 SLP938 T02280139  
 KCNK 151955Z AUTO 18036G49KT 10SM FEW045 SCT055 24/13 A2929 RMK AO2 PK WND 18052/1932 PRESFR  
 SLP907 T02390133  
 KCNK 152031Z AUTO 19035G58KT 8SM TS FEW050 SCT060 SCT080 23/12 A2922 RMK AO2 PK WND 18058/2028  
 LTG DSNT SW-N TSB31 T02330122  
 KCNK 152035Z AUTO 23040G65KT 1SM TS HZ FEW036 SCT050 BKN080 20/12 A2930 RMK AO2 PK WND 25065/2033  
 LTG DSNT ALQDS TSB31 PRESRR T02000122  
 KCNK 152037Z AUTO 22034G65KT 1/2SM TSRA FEW025 SCT050 BKN080 16/12 A2930 RMK AO2 PK WND  
 25065/2033 LTG DSNT ALQDS RAB36 TSB31 PRESRR P0000 T01610117  
 KCNK 152045Z AUTO 20030G48KT 1 1/4SM -TSRA SCT027 BKN037 BKN049 14/12 A2926 RMK AO2 PK WND  
 25065/2033 LTG DSNT N AND NE AND S RAB36 TSB31 P0014 T01440117  
 KCNK 152047Z AUTO 20026G48KT 4SM -TSRA SCT030 BKN037 BKN049 14/12 A2926 RMK AO2 PK WND 25065/2033  
 LTG DSNT ALQDS RAB36 TSB31 P0014 T01440117  
 KCNK 152055Z AUTO 20027G42KT 6SM VCTS HZ BKN033 BKN040 OVC055 14/10 A2925 RMK AO2 PK WND  
 25065/2033 LTG DSNT ALQDS RAB36E49 TSB31E52 SLP898 P0014 60014 T01440100 56067  
 KCNK 152112Z AUTO 23022G39KT 3SM HZ BKN029 OVC038 16/09 A2926

KCNK 152121Z AUTO 23022G44KT 1 3/4SM HZ OVC025 17/06 A2928 RMK AO2 PK WND 24044/2116 LTG DSNT NE-SE PRESRR T01720061  
KCNK 152127Z AUTO 23024G42KT 1 1/4SM HZ OVC023 17/04 A2928 RMK AO2 PK WND 24044/2116 LTG DSNT NE AND E PRESRR T01720044  
KCNK 152155Z AUTO 22028G42KT 1 1/4SM HZ OVC017 17/M05 A2929 RMK AO2 PK WND 24044/2116 SLP909 T01721050  
KCNK 152235Z AUTO 23046G76KT 3/4SM HZ VV015 16/01 A2932 RMK AO2 PK WND 24076/2231 T01560006  
KCNK 152247Z AUTO 23039G61KT 1SM HZ VV017 14/03 A2932 RMK AO2 PK WND 24076/2231 T01440033  
KCNK 152255Z AUTO 23038G61KT 1 1/4SM HZ OVC017 14/03 A2932 RMK AO2 PK WND 24076/2231 SLP921 T01390033  
KCNK 152311Z AUTO 24037G58KT 1 3/4SM HZ OVC021 13/03 A2935 RMK AO2 PK WND 23058/2304 PRESRR T01280033  
KCNK 152317Z AUTO 25036G58KT 3SM HZ OVC025 12/03 A2936 RMK AO2 PK WND 23058/2317 PRESRR T01170033  
KCNK 152350Z AUTO 25036G58KT 10SM SCT028 OVC036 11/03 A2946 RMK AO2 PK WND 22064/2323 PRESRR  
KCNK 152355Z AUTO 26040G59KT 10SM FEW028 OVC036 11/03 A2947 RMK AO2 PK WND 22064/2323 PRESRR SLP975 60014 T01060028 10244 20106 51059  
KCNK 160055Z AUTO 27035G47KT 10SM CLR 08/M01 A2962 RMK AO2 PK WND 25062/2356 SLP029 T00781006  
KCNK 160155Z AUTO 28023G40KT 10SM CLR 06/M02 A2973 RMK AO2 PK WND 26045/0106 PRESRR SLP068 T00611022  
KCNK 160255Z AUTO 28015G26KT 10SM CLR 04/M03 A2980 RMK AO2 PK WND 28037/0202 SLP091 T00441033 51106  
KCNK 160355Z AUTO 29020G34KT 10SM CLR 04/M04 A2984 RMK AO2 PK WND 30034/0347 SLP103 T00391044  
KCNK 160455Z AUTO 31015G24KT 10SM CLR 03/M05 A2987 RMK AO2 PK WND 30028/0356 SLP114 T00281050  
KCNK 160555Z AUTO 30010KT 10SM CLR 02/M05 A2989 RMK AO2 SLP120 T00171050 10106 20017 402440017 51030

### Salina, Kansas (SLN):

KSLN 151153Z AUTO 18014G23KT 10SM CLR 14/12 A2971 RMK AO2 SLP057 T01440117 10156 20144 58015  
KSLN 151253Z 18017G27KT 10SM CLR 15/12 A2970 RMK AO2 PK WND 19027/1249 SLP054 T01500122  
KSLN 151353Z 18019G31KT 10SM CLR 15/13 A2968 RMK AO2 PK WND 17031/1352 SLP048 T01500128  
KSLN 151450Z 18019G33KT 10SM BKN014 16/14 A2966 RMK AO2 PK WND 19036/1429  
KSLN 151453Z 18019G33KT 10SM BKN014 16/14 A2966 RMK AO2 PK WND 19036/1429 SLP038 T01610139 55012  
KSLN 151519Z 18025G37KT 10SM OVC015 17/14 A2964 RMK AO2 PK WND 19037/1503 T01720139  
KSLN 151553Z 19025G40KT 10SM OVC018 18/14 A2962 RMK AO2 PK WND 17045/1542 SLP023 T01780139  
KSLN 151653Z 18027G47KT 9SM BKN022 20/14 A2958 RMK AO2 PK WND 17047/1649 SLP007 T02000144  
KSLN 151753Z 18028G48KT 9SM BKN029 22/14 A2950 RMK AO2 PK WND 20054/1736 PRESFR SLP981 T02170144 10217 20144 58052  
KSLN 151810Z 18031G51KT 7SM SCT031 22/14 A2946 RMK AO2 PK WND 19051/1804 PRESFR T02220144  
KSLN 151853Z 19037G54KT 7SM SCT022 23/14 A2944 RMK AO2 PK WND 17060/1816 SLP958 T02330144  
KSLN 151953Z 19036G50KT 10SM SCT022 24/14 A2939 RMK AO2 PK WND 19054/1917 SLP941 T02440144  
KSLN 152000Z 18029G50KT 10SM BKN028 BKN050 OVC060 24/14 A2937 RMK AO2 PK WND 19047/2000 PRESFR T02390139  
KSLN 152050Z 21050G71KT 1 1/2SM -TSRA SQ BKN031 BKN065 OVC090 21/15 A2935 RMK AO2 PK WND 22071/2050 LTG DSNT N AND S AND NW RAB46 TSB49 PRESRR P0003  
KSLN 152053Z 22035G71KT 1/2SM TSRA FG SQ BKN031 BKN050 OVC080 16/14 A2935 RMK AO2 PK WND 22071/2050 LTG DSNT N AND S RAB46 TSB49 PRESRR SLP933 P0007 60007 T01610139 56049  
KSLN 152103Z 22029G46KT 3SM -TSRA BKN035 BKN050 OVC085 17/12 A2936 RMK AO2 PK WND 22046/2055 LTG DSNT N AND NE AND S P0001 T01720117  
KSLN 152110Z 22023G38KT 6SM VCTS HZ BKN038 BKN049 OVC090 18/11 A2937 RMK AO2 PK WND 22046/2055 LTG DSNT ALQDS RAE04 TSE04 P0001 T01780106  
KSLN 152133Z 23036G49KT 3SM HZ OVC034 19/06 A2938 RMK AO2 PK WND 22049/2133 LTG DSNT NE-SE RAE04 TSE04 P0001 T01890061  
KSLN 152151Z 23037G55KT 2 1/2SM HZ BKN029 OVC037 19/01 A2940 RMK AO2 PK WND 23055/2151 LTG DSNT E RAE04 TSE04 P0001  
KSLN 152153Z 24032G55KT 2SM HZ BKN029 OVC037 19/M01 A2941 RMK AO2 PK WND 23055/2151 LTG DSNT E RAE04 TSE04 SLP951 P0001 T01941011  
KSLN 152201Z 24030G52KT 1 1/4SM HZ BKN025 OVC035 19/M05 A2942 RMK AO2 PK WND 23052/2156 T01941050  
KSLN 152215Z 25051G72KT 1/2SM HZ SQ OVC021 20/M09 A2939 RMK AO2 PK WND 25072/2215 T02001094  
KSLN 152245Z 26048G77KT 1/2SM -RA FG VV012 15/03 A2954 RMK AO2 PK WND 25077/2238 RAB38 P0000 T01500033  
KSLN 152253Z 26043G68KT 3/4SM BLDU VV014 14/04 A2956 RMK AO2 PK WND 25077/2238 RAB38E49 SLP004 P0000 T01440039  
KSLN 152256Z 25044G65KT 1SM BLDU VV016 14/04 A2957 RMK AO2 PK WND 26065/2254 PRESRR T01440039  
KSLN 152308Z 25034G56KT 2 1/2SM BLDU OVC030 14/04 A2959 RMK AO2 PK WND 26065/2254 T01390039  
KSLN 152315Z 25031G54KT 4SM BLDU OVC036 13/04 A2960 RMK AO2 PK WND 26065/2254 T01330039  
KSLN 152353Z 13/04 A2963 RMK AO2 PK WND 26065/2254 SLP031 60008 T01280039 10244 20128 53091 \$  
KSLN 160053Z A2970 RMK AO2 SLPNO \$  
KSLN 160102Z 22025G74KT 5SM HZ OVC028 12/04 A2971 RMK AO2 T01170044 \$  
KSLN 160153Z 24018G32KT 7SM OVC032 10/04 A2977 RMK AO2 SLP077 T01000033 \$  
KSLN 160253Z 24011G28KT 7SM BKN100 10/03 A2983 RMK AO2 SLP101 T00940028 51066 \$



KSLN 160353Z 27015KT 8SM CLR 09/02 A2987 RMK AO2 SLP112 T00890022 \$  
KSLN 160453Z 27014KT 10SM CLR 08/01 A2987 RMK AO2 SLP112 T00780011 \$  
KSLN 160553Z AUTO A2991 RMK AO2 SLPNO 402441106 53026 PWINO FZRANO \$