

Synoptic Conditions – Warm front moving across northern Illinois with the Peoria area south of the front in the warm air side of the front with southerly winds. Strong pressure gradient located to the northeast over Nebraska and South Dakota with approaching 998-hPa low pressure system.

Observations (METARs) – General Downing - Peoria International Airport (KPIA) at an elevation of 661 feet, and a variation of 1° E. Airport had an augmented Automated Surface Observation System (ASOS) and reported the following conditions surrounding the period:

METAR KPIA 271054Z 19005KT 10SM CLR 23/18 A2995 RMK AO2 SLP135 T02280178 \$=
METAR KPIA 271154Z 19005KT 10SM CLR 23/18 A2997 RMK AO2 SLP143 T02330183 10267 20222 53012 \$=
METAR KPIA 271254Z 21010KT 10SM CLR 24/18 A2998 RMK AO2 SLP144 T02440183 \$=

5-min ASOS reports surrounding the period from KPIA were as follows:

KPIA 271120Z 19006KT 10SM CLR 23/18 A2996 630 73 1700 190/06 RMK AO2 \$
KPIA 271125Z 19006KT 10SM CLR 23/18 A2996 630 73 1700 190/06 RMK AO2 \$
KPIA 271130Z 19005KT 10SM CLR 23/18 A2996 620 73 1700 200/05 RMK AO2 \$
KPIA 271135Z 19005KT 10SM CLR 23/18 A2996 620 73 1700 190/05 RMK AO2 \$
KPIA 271140Z 19005KT 10SM CLR 23/18 A2997 620 76 1700 190/05 RMK AO2 \$
KPIA 271145Z 19005KT 10SM CLR 23/18 A2997 620 73 1800 190/05 RMK AO2 \$
KPIA 271150Z 19005KT 10SM CLR 23/18 A2997 620 73 1800 190/05 RMK AO2 SLP142 T02330183 10267 20222 56005 \$

1-min wind reports from KPIA were as follows:

Time	Average Wind	Peak Wind
1130Z	193 5KT	194 6KT
1131Z	191 5KT	195 5KT
1132Z	190 5KT	189 6KT
1133Z	190 5KT	188 7KT
1134Z	190 5KT	188 6KT
1135Z	188 5KT	187 6KT
1136Z	190 5KT	188 7KT
1137Z	192 5KT	185 7KT
1138Z	192 5KT	196 6KT
1139Z	191 5KT	190 7KT
1140Z	190 5KT	185 6KT
1141Z	187 5KT	185 8KT
1142Z	188 6KT	201 6KT
1143Z	189 5KT	188 5KT
1144Z	188 4KT	190 5KT
1145Z	187 5KT	194 6KT