



Red Sky Weather Service, LLC
732 Keeling Dr
Chesapeake, VA 23322
(888) 418-8710
www.redskyweather.com

Slip and Fall Incident Weather Study

Location: Elizabeth, New Jersey
Date: March 6, 2003

1. Project Overview

This project involved the analysis of historical weather for the dates of March 5 and 6, 2003 in the vicinity of Elizabeth, New Jersey in support of a slip and fall incident. The location for the reported incident is 1140 Polaris Street, Elizabeth New Jersey, 07201. This location is approximately 1.5 miles south of the Newark Liberty Airport, see figure 1.



Figure 1: Site Map

Although the site was less than two miles away from the Newark airport, the observations for 5 and 6 March 2003 from five local airports were reviewed to ensure data fidelity. The airports used for this weather analysis were:

Airport (Callsign)	Geographic Position	Distance to Incident Site
Newark Liberty International Airport (KEWR)	40°41'N 74°10'W	1.45 miles
Caldwell (KCDW)	40°53'N 74°17'W	16.16 miles
Teterboro (KTEB)	40°51'N 74°04'W	14.33 miles
La Guardia (KLGA)	40°47'N 73°53'W	21.57 miles
John F. Kennedy (KJFK)	40°38'N 73°46'W	26.86 miles



Figure 2: Site Map and Airfield Locations

Conditions at the slip and fall site of interest were calculated by utilizing these stations reported observations and an inverse distance weighted scheme. This technique allies a weighting to all observations based on the distance from the observing station to the site of interest. Station observations closer to the site of interest are weighted heavier than those farther from the site of interest.

2. Synoptic Weather Situation

At 1 AM on March 6 a well developed low pressure system was located to the southwest of the New Jersey over Illinois (figure 2). An occluded front extended northeast from the low over the Lake Erie to central Lake Ontario, then southward to a triple point over central North Carolina. A warm front extended eastward from the triple point over northern North Carolina into the Cape Hatteras area. High pressure over the western North Atlantic was bringing warm, moist maritime air into the New Jersey region.

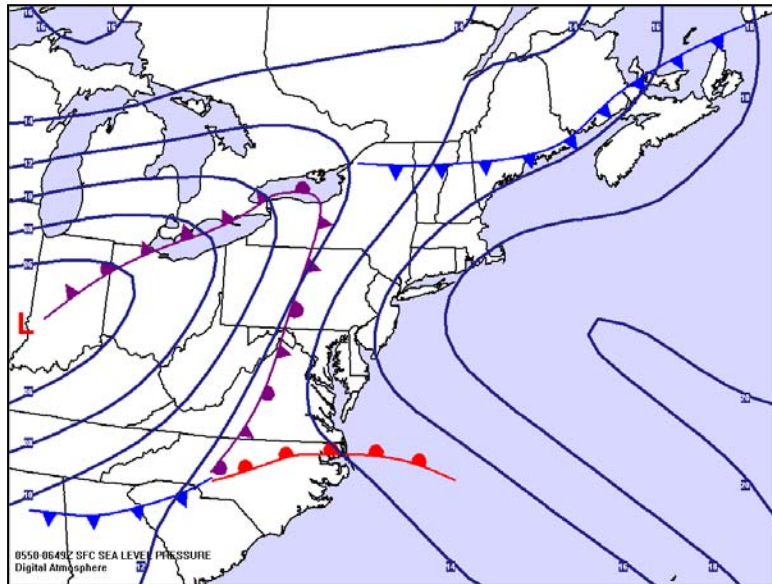


Figure 3: Weather Map – 1 AM March 6, 2003

The weather situation brought warm temperatures, light rain, mist and reduced visibilities into the Elizabeth New Jersey area on the morning of March 5.

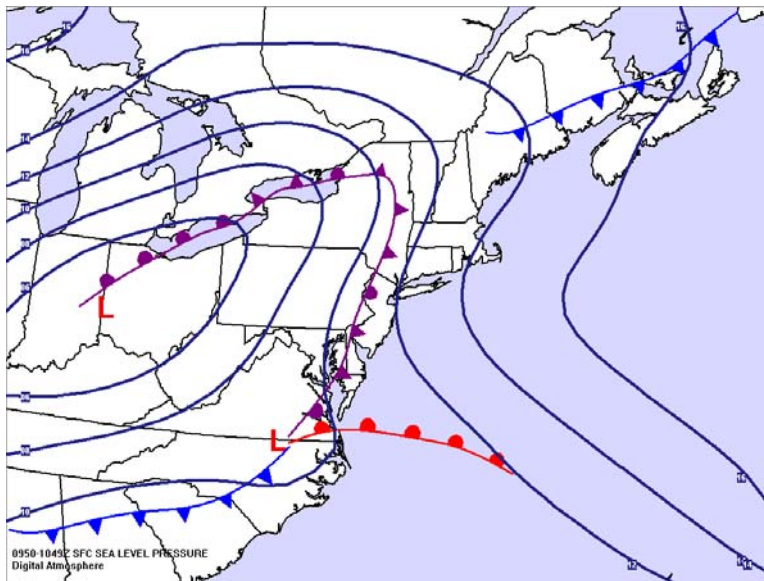


Figure 4: Weather Map - 7 AM March 6, 2003

area, however as the occluded front moved closer to the area, temperatures decreased, winds increased and the precipitation turned to snow.

Six hours later, at 7 AM on March 6, the low pressure system and its associated weather fronts had moved toward the northeast and began to influence the Elizabeth New Jersey area (figure 3). The occluded front now stretched north to south through western New Jersey, and a new low pressure system formed over northern North Carolina, to the west of Norfolk, Virginia. This situation once again brought precipitation into the Elizabeth New Jersey

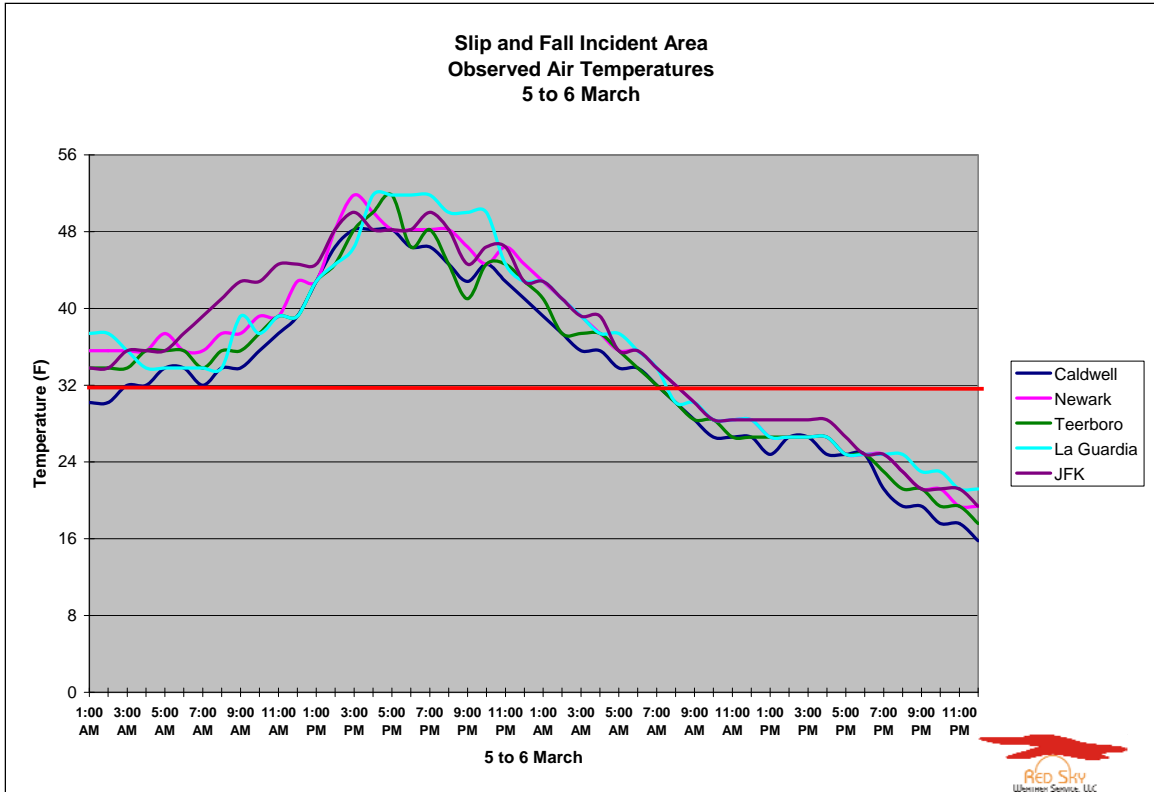


Figure 5: March 5 and 6 Temperatures (F)

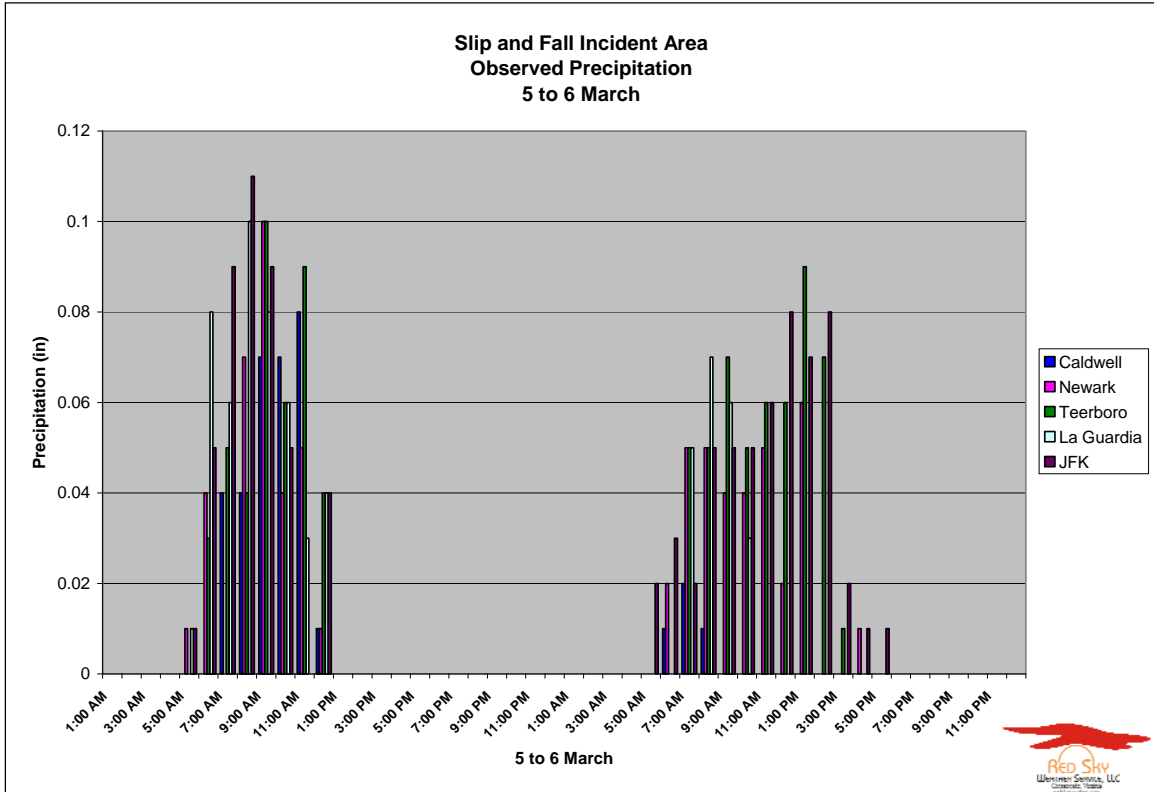


Figure 6: March 5 and 6 Precipitation (in)

3. Detailed Weather Analysis

Conditions in the Elizabeth New Jersey area were unsettled during the 5 and 6 March 2003 period as the above detailed weather system affected the region. On the 5th winds were predominately northerly to northeast and light to moderate during the morning hours as a previous cold front cleared the area and high pressure tried to build into the area. As the front cleared the area, winds became westerly to northerly in the early afternoon. The area experience some light rain and drizzle during the very early morning hours, but with temperatures maintaining in the upper 30's F precipitation remained liquid.

Temperatures in the afternoon of March 5 steadily increased as the cold front cleared the area and the sky covered improved from its overcast state in the morning to scattered to clear in the afternoon. Temperatures increase to 52 F by 3 PM on the 5th.

As the low pressure system south of the Great Lakes approached the area, weather conditions in the Elizabeth area steadily degraded. Trace amounts of precipitation were recorded at Newark between 3 and 4 AM on March 6th and temperatures decreased into the low 30s F, reaching freezing at the site of interest at approximately 9 AM.

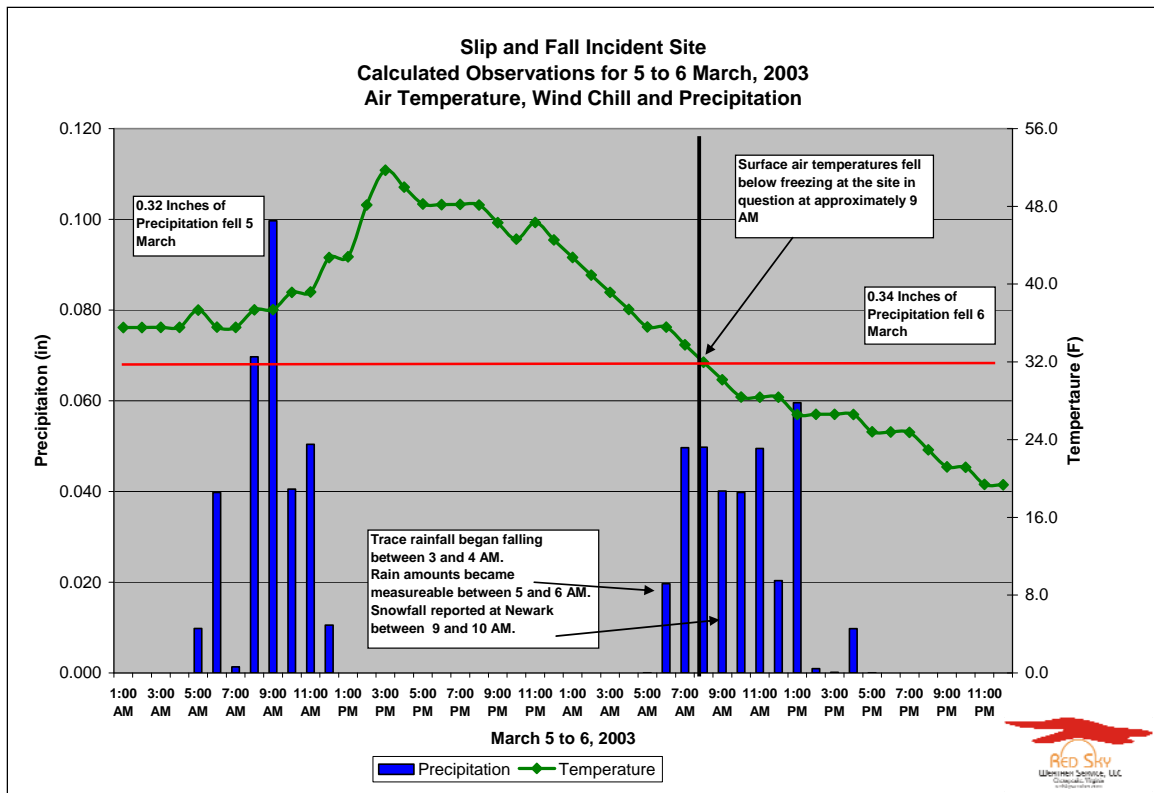


Figure 7: Weather Conditions at the Site of Interest

Rainfall steadily increased in the area through the morning, becoming measurable between 5 and 6 AM. With the steadily decreasing temperatures, the precipitation

gradually turned freezing. Observers at Newark reported freezing precipitation at 7:16 AM on March 5th, which quickly turned to snow at 8:46 AM (see Newark weather observations). Snow fell rapidly, and by 11 AM the weather station at the Newark airport reported 2 inches of snow on the ground. Snow continued to fall, with measurable snowfall continuing until about 4 PM. Overall, through the day on the 6th, there was a total of .34 inches of precipitation (liquid equivalent).

Temperatures continued to decrease throughout the day, dropping below 20 F by 11 PM, permitting any snow on the ground remain on the ground through the day.

4. Conclusion

Observations in the area in question during the period indicate that they were conducive for the production of conditions that would be conducive for a slip and fall event to occur. Conditions on the day prior to the event included light to moderate wind and precipitation totaling over 0.3 inches, with rain ending in the late morning. Temperatures increased to the low 50s F on March 5, with light to moderate winds and clear to scattered skies. Overnight from March 5 to 6, temperatures steadily decreased, reaching freezing in the area by 8 AM on March 6. Skys steadily became overcast and precipitation once again was observed in the area in the very early morning hours of March 6. With the decreasing temperatures, the rain transitioned to freezing rain, then snow by approximately 9 AM. By 11 AM the Newark Airport had reported 2 inches of snow on the ground. Since this snow event was so early in the morning, and temperatures had steadily decreased through the evening and morning hours, it is most probable that untreated roads and sidewalks saw an accumulation of frozen precipitation during the period. Temperatures remained below freezing for the remained of March 6, allowing any snow in the area to remain on the ground.

Weather Observations - Newark Liberty International Airport

Location: Newark, New Jersey
 Latitude: 40°41'N
 Longitude: 74°10'W
 Elevation: 7 (ft)



March 5, 2003

Time (Local)	Temp (F)	Pressure (mb)	Precipitation (in)	Snow Depth (in)	Significant Weather	Visibility (mi)	Wind			Observer's Comments
							Direction (degrees)	Speed (mph)	Gusts (mph)	
12:51 AM	35.6	1017.2	None		None	10	0	0	0	
1:51 AM	35.6	1016	None		None	10	0	0	0	
2:51 AM	35.6	1014.4	None		None	10	0	0	0	
3:51 AM	35.6	1013.4	None		None	9	30	4.6	0	
4:51 AM	37.4	1012.4	0.01		-RA	7	60	3.5	0	
5:51 AM	35.6	1011.1	0.04		-RA BR	4	30	5.8	0	
6:51 AM	35.6	1010.5	None		-RA BR	1.5	30	5.8	0	
7:51 AM	37.4	1009.2	0.07		-RA BR	1	30	6.9	0	
8:51 AM	37.4	1008.3	0.1		-RA BR	1	50	6.9	0	
9:51 AM	39.2	1007.3	0.04		-RA BR	1	10	6.9	0	
10:51 AM	39.2	1006.4	0.05		-RA BR	0.75	40	6.9	0	
11:51 AM	42.8	1004.8	0.01		-DZ BR	1	50	5.8	0	
12:51 PM	42.8	1003.8	T		BR	1.5	40	3.5	0	Pressure Falling Rapidly
1:51 PM	48.2	No Report	None		BR	2	260	5.8	0	
2:51 PM	51.8	1002.6	None		None	9	250	13.8	0	
3:51 PM	50	1002.9	None		None	10	240	18.4	0	
4:51 PM	48.2	1003.9	None		None	10	250	18.4	0	
5:51 PM	48.2	1004.1	None		None	10	250	13.8	0	
6:51 PM	48.2	1005.4	None		None	9	270	9.2	0	
7:51 PM	48.2	1005.8	None		None	9	260	10.4	0	
8:51 PM	46.4	1006.8	None		None	8	250	10.4	0	
9:51 PM	44.6	1007.5	None		None	8	250	9.2	0	
10:51 PM	46.4	1008.1	None		None	8	350	11.5	0.0	
11:51 PM	44.6	1009.3	None		None	10	340	6.9	0	

March 6, 2003

Time (Local)	Temp (F)	Pressure (mb)	Precipitation (in)	Snow Depth (in)	Significant Weather	Visibility (mi)	Wind			Observer's Comments
							Direction (degrees)	Speed (mph)	Gusts (mph)	
12:51 AM	42.8	1008.9	None		None	10	360	11.5	0	
1:51 AM	41	1009.7	None		None	10	350	15	0	
2:51 AM	39.2	1009	None		None	10	360	16.1	0	
3:51 AM	37.4	1009.1	T		-RA	10	20	13.8	0	
4:51 AM	35.6	1009.7	T		-RA	10	20	10.4	0	
5:51 AM	35.6	1009.5	0.02		-RA	8	20	12.7	0	
6:51 AM	33.8	1010	0.05		-RA	7	40	12.7	0	
7:51 AM	32	1009.9	0.05		-FRZ R, BR	5	40	15	0	FRZ Rain begin 7:16
8:51 AM	30.2	1010.7	0.04		-SN	5	40	11.5	0	Snow begin 8:46
9:51 AM	28.4	1009.3	0.04		SN, FRZ FG	0.5	60	13.8	0	
10:51 AM	28.4	1008	0.05	2	-SN BR	0.75	50	16.1	25.3	
11:51 AM	28.4	1008.7	0.02		-SN BR	1.25	20	16.1	0	
12:51 PM	26.6	1008.3	0.06		-SN BR	0.75	30	16.1	0	
1:51 PM	26.6	No Report	None		-SN BR	0.75	10	15	0	
2:51 PM	26.6	1009.5	T		-SN	7	10	12.7	0	Snow end 2:17, begin 2:47
3:51 PM	26.6	1011.3	0.01		-SN	2	360	21.9	27.6	
4:51 PM	24.8	1013.2	T		-SN	1	20	15	0	
5:51 PM	24.8	1014.9	T		-SN	5	20	15	0	
6:51 PM	24.8	1016.9	T		-SN	9	360	15	0	
7:51 PM	23	1018.2	T		None	10	20	10.4	0	
8:51 PM	21.2	1019.5	None		None	10	10	12.7	0	
9:51 PM	21.2	1020.6	None		None	10	360	13.8	0	
10:51 PM	19.4	1021.4	None		None	10	20	12.7	0.0	
11:51 PM	19.4	1022.8	None		None	10	10	10.4	0	

Statistics for March 5 and 6

Temperature	Total Precipitation	Visibility	Wind Speed
Maximum	51.8	10	21.9
Minimum	19.4	0.5	27.6

Key:

M: Missing data - no observation taken
 Weather Elements: BR = Mist
 FG = Fog
 Rainfall: T = < 0.05 in
 Snowfall: T = < 0.5 in

Precipitation Type: R = Rain
 DZ = Drizzle
 FRZ R/DZ = Freezing Rain or Drizzle
 SN = Snow
 TS = Thunderstorm
 Precipitation Qualifier: "-" = Light
 "no sign" = Moderate
 "*" = Heavy

Weather Observations - Teterboro Airport

Location: Teterboro, New Jersey
 Latitude: 40°51'N
 Longitude: 74°04'W
 Elevation: 9 (ft)



March 5, 2003

Time (Local)	Temp (F)	Pressure (mb)	Precipitation (in)	Significant Weather	Visibility (mi)	Wind		
						Direction (degrees)	Speed (mph)	Gusts (mph)
12:51 AM	33.8	1016.9	None	None	10	0	0	0
1:51 AM	33.8	1016	None	None	9	0	0	0
2:51 AM	33.8	1014.5	None	None	9	0	0	0
3:51 AM	35.6	1013.3	None	None	9	10	4.6	0
4:51 AM	35.6	1012.4	T	-RA	8	50	3.5	0
5:51 AM	35.6	1011	0.03	-RA BR	4	0	0	0
6:51 AM	33.8	1010.5	0.05	RA BR	1.5	340	3.5	0
7:51 AM	35.6	1009.4	0.04	-RA	1	340	3.5	0
8:51 AM	35.6	1008.4	0.1	-RA	0.75	360	6.9	0
9:51 AM	37.4	1007.3	0.06	-RA	0.75	340	4.6	0
10:51 AM	39.2	1006.5	0.09	RA	0.75	10	6.9	0
11:51 AM	39.2	1004.8	0.04	-RA BR	0.75	60	5.8	0
12:51 PM	42.8	1003.7	T	HZ	4	60	3.5	0
1:51 PM	44.6	No Report	None	HZ	4	0	0	0
2:51 PM	48.2	1001.9	None	HZ	4	VRB	4.6	0
3:51 PM	50	1002.4	None	None	8	230	9.2	0
4:51 PM	51.8	1003.4	None	None	10	240	12.7	0
5:51 PM	46.4	1004	None	None	8	220	9.2	0
6:51 PM	48.2	1005.2	None	None	9	240	9.2	0
7:51 PM	44.6	1005.7	None	None	7	200	5.8	0
8:51 PM	41	1006.2	None	None	8	220	5.8	0
9:51 PM	44.6	1007.5	None	None	7	0	0	0
10:51 PM	44.6	1008.3	None	None	10	290	12.7	0.0
11:51 PM	42.8	1009.3	None	None	10	320	8.1	0

March 6, 2003

Time (Local)	Temp (F)	Pressure (mb)	Precipitation (in)	Significant Weather	Visibility (mi)	Wind		
						Direction (degrees)	Speed (mph)	Gusts (mph)
12:51 AM	41	1009.2	None	None	10	350	9.2	0
1:51 AM	37.4	1009.6	None	None	10	330	11.5	0
2:51 AM	37.4	1009	None	None	10	340	9.2	0
3:51 AM	37.4	1009.1	None	None	9	360	5.8	0
4:51 AM	35.6	1009.7	T	-RA	9	360	6.9	0
5:51 AM	33.8	1009.5	T	-RA	7	50	10.4	0
6:51 AM	32	1010.1	0.05	PL	4	50	8.1	0
7:51 AM	30.2	1009.9	0.05	None	4	40	10.4	0
8:51 AM	28.4	1010.9	0.07	BR	1.5	50	8.1	0
9:51 AM	28.4	1009.9	0.05	SN	0.5	30	6.9	0
10:51 AM	26.6	1007.9	0.06	-SN	0.5	30	11.5	0
11:51 AM	26.6	1008.8	0.06	-SN	0.5	20	10.4	0
12:51 PM	26.6	1008.5	0.09	SN	0.25	20	12.7	19.6
1:51 PM	26.6	1008.5	0.07	SN	0.25	20	9.2	0
2:51 PM	26.6	1009.3	0.01	-SN BR	1	10	11.5	0
3:51 PM	26.6	1011.1	T	-SN	2	20	13.8	0
4:51 PM	24.8	1013.2	T	-SN	1	20	13.8	0
5:51 PM	24.8	1015.1	T	-SN	1	10	15	20.7
6:51 PM	23	1016.8	T	None	10	10	11.5	0
7:51 PM	21.2	1018.1	None	None	10	20	8.1	0
8:51 PM	21.2	1019.3	None	None	10	350	6.9	0
9:51 PM	19.4	1020.8	None	None	10	340	3.5	0
10:51 PM	19.4	1021.5	None	None	10	360	8.1	0.0
11:51 PM	17.6	1022.7	None	None	10	360	6.9	0

Statistics for March 5 and 6

Temperature		Total		Visibility		Wind Speed	
Maximum	51.8	Percipitation	0.92	Maximum	10	Maximum	15
Minimum	17.6			Minimum	0.25		20.7

Key:

M: Missing data - no observation taken

Weather Elements: BR = Mist
 FG = Fog

Rainfall: T = < 0.05 in
 Snowfall: T = < 0.5 in

Precipitation Type: R = Rain
 DZ = Drizzle
 FRZ R/DZ = Freezing Rain or Drizzle
 SN = Snow
 TS = Thunderstorm

Precipitation Qualifier: "-" = Light
 "no sign" = Moderate
 "+" = Heavy

Weather Observations - Caldwell Airport

Location: Caldwell, New Jersey
 Latitude: 40°53'N
 Longitude: 74°17'W
 Elevation: 169 (ft)



March 5, 2003

Time (Local)	Temp (F)	Pressure (mb)	Precipitation (in)	Significant Weather	Visibility (mi)	Wind		
						Direction (degrees)	Speed (mph)	Gusts (mph)
12:53 AM	30.2	1018	None	None	9	0	0	0
1:53 AM	30.2	1016.7	None	None	9	0	0	0
2:53 AM	32	1015.4	None	None	8	0	0	0
3:53 AM	32	1014.3	None	None	9	0	0	0
4:53 AM	33.8	1013.2	T	None	7	0	0	0
5:53 AM	33.8	1012.1	T	None	7	0	0	0
6:53 AM	32	1011.4	0.04	BR	2	0	0	0
7:53 AM	33.8	1010.4	0.04	-RA BR	1.5	10	3.5	0
8:53 AM	33.8	1009.4	0.07	-RA BR	1	0	0	0
9:53 AM	35.6	1008.6	0.07	-RA BR	1	0	0	0
10:53 AM	37.4	1007.5	0.08	-RA BR	0.75	0	0	0
11:53 AM	39.2	1005.8	0.01	BR	1	0	0	0
12:53 PM	42.8	1004.7	None	BR	3	0	0	0
1:53 PM	46.4	1003.4	None	None	8	240	3.5	0
2:53 PM	48.2	1003	None	None	10	230	5.8	0
3:53 PM	48.2	1003.4	None	None	10	230	6.9	0
4:53 PM	48.2	1004.4	None	None	10	230	10.4	0
5:53 PM	46.4	1005.1	None	None	9	240	6.9	0
6:53 PM	46.4	1006.3	None	None	9	220	3.5	0
7:53 PM	44.6	1006.4	None	None	9	0	0	0
8:53 PM	42.8	1007.4	None	None	8	230	3.5	0
9:53 PM	44.6	1008.8	None	None	9	330	5.8	0
10:53 PM	42.8	1009.1	None	None	10	310	5.8	0.0
11:53 PM	41	1010.6	None	None	10	330	4.6	0

March 6, 2003

Time (Local)	Temp (F)	Pressure (mb)	Precipitation (in)	Significant Weather	Visibility (mi)	Wind		
						Direction (degrees)	Speed (mph)	Gusts (mph)
12:53 AM	39.2	1010.4	None	None	10	350	4.6	0
1:53 AM	37.4	1010.7	None	None	10	330	5.8	0
2:53 AM	35.6	1010.2	None	None	10	330	6.9	0
3:53 AM	35.6	1010.1	None	None	10	360	3.5	0
4:53 AM	33.8	1010.6	T	-RA	9	20	4.6	0
5:53 AM	33.8	1010.6	0.01	-RA	8	20	3.5	0
6:53 AM	32	1010.9	0.02	BR	6	60	6.9	0
7:53 AM	30.2	1010.7	0.01	BR	4	60	11.5	0
8:53 AM	28.4	1011.8	T	-SN BR	2.5	VRB	4.6	0
9:53 AM	26.6	1010.3	T	-SN BR	0.75	50	13.8	19.6
10:53 AM	26.6	1009.1	T	-SN	0.5	40	10.4	0
11:53 AM	26.6	1010.6	T	-SN BR	0.75	30	6.9	18.4
12:53 PM	24.8	1009.6	T	SN	0.25	20	9.2	0
1:53 PM	26.6	1009.8	T	SN	0.25	VRB	5.8	0
2:53 PM	26.6	1010.8	T	None	10	360	8.1	0
3:53 PM	24.8	1012.6	T	-SN BR	1.25	VRB	6.9	0
4:53 PM	24.8	1014.4	T	-SN	1.5	10	9.2	0
5:53 PM	24.8	1016.4	T	-SN	4	VRB	6.9	0
6:53 PM	21.2	1018.1	T	None	10	VRB	6.9	0
7:53 PM	19.4	1019.2	None	None	10	0	0	0
8:53 PM	19.4	1020.7	None	None	10	VRB	4.6	0
9:53 PM	17.6	1022	None	None	10	0	0	0
10:53 PM	17.6	1022.8	None	None	10	30	3.5	0.0
11:53 PM	15.8	1023.9	None	None	10	VRB	3.5	0

Statistics for March 5 and 6

Temperature		Total		Visibility		Wind Speed	
Maximum	48.2	Percipitation	0.35	Maximum	10	Maximum	13.8
Minimum	15.8			Minimum	0.25		19.6

Key:

M: Missing data - no observation taken

Weather Elements: BR = Mist
 FG = Fog

Rainfall: T = < 0.05 in
 Snowfall: T = < 0.5 in

Precipitation Type: R = Rain
 DZ = Drizzle
 FRZ R/DZ = Freezing Rain or Drizzle
 SN = Snow
 TS = Thunderstorm

Precipitation Qualifier: "-" = Light
 "no sign" = Moderate
 "+" = Heavy

Weather Observations - La Guardia Airport

Location: New York, New York
 Latitude: 40°47'N
 Longitude: 73°53'W
 Elevation: 11 (ft)



March 5, 2003

Time (Local)	Temp (F)	Pressure (mb)	Precipitation (in)	Significant Weather	Visibility (mi)	Wind		
						Direction (degrees)	Speed (mph)	Gusts (mph)
12:51 AM	37.4	1017.2	None	None	7	190	6.9	0
1:51 AM	37.4	1016.2	None	None	10	160	4.6	0
2:51 AM	35.6	1014.8	None	None	10	80	4.6	0
3:51 AM	33.8	1013.5	None	None	9	60	8.1	0
4:51 AM	33.8	1012.7	0.01	-RA BR	5	90	4.6	0
5:51 AM	33.8	1011.7	0.08	-RA BR	3	60	6.9	0
6:51 AM	33.8	1010.9	0.06	-RA BR	1.5	40	6.9	0
7:51 AM	33.8	1009.6	0.1	-RA BR	1	70	5.8	0
8:51 AM	39.2	1008.7	0.08	-RA	1	VRB	4.6	0
9:51 AM	37.4	1007.4	0.06	-RA	1	30	5.8	0
10:51 AM	39.2	1006.4	0.03	-RA BR	1	0	0	0
11:51 AM	39.2	1005.3	0.04	-RA BR	0.5	0	0	0
12:51 PM	42.8	1004	T	BR	0.75	0	0	0
1:51 PM	44.6	No Report	None	HZ	2	0	0	0
2:51 PM	46.4	1002.5	None	HZ	4	0	0	0
3:51 PM	51.8	1002.5	None	None	8	240	11.5	0
4:51 PM	51.8	1003.5	None	None	10	250	11.5	0
5:51 PM	51.8	1003.6	None	None	10	260	15	18.4
6:51 PM	51.8	1005	None	None	10	280	19.6	26.5
7:51 PM	50	1005.4	None	None	10	280	17.3	0
8:51 PM	50	1006.3	None	None	10	280	11.5	0
9:51 PM	50	1007.5	None	None	10	280	11.5	0
10:51 PM	44.6	1007.7	None	None	10	330	10.4	0.0
11:51 PM	42.8	1009.1	None	None	10	320	15	0

March 6, 2003

Time (Local)	Temp (F)	Pressure (mb)	Precipitation (in)	Significant Weather	Visibility (mi)	Wind		
						Direction (degrees)	Speed (mph)	Gusts (mph)
12:51 AM	42.8	1008.9	None	None	10	340	13.8	0
1:51 AM	41	1009.5	None	None	10	340	13.8	0
2:51 AM	39.2	1008.9	None	None	10	340	15	0
3:51 AM	37.4	1009.3	None	None	10	350	6.9	0
4:51 AM	37.4	1009.8	T	-RA	10	20	12.7	0
5:51 AM	35.6	1009.8	T	-RA	9	360	10.4	0
6:51 AM	33.8	1010.2	0.05	BR	6	30	12.7	0
7:51 AM	30.2	1010.4	0.07	BR	5	50	11.5	0
8:51 AM	30.2	1011.1	0.06	BR	4	50	11.5	0
9:51 AM	28.4	1009.8	0.03	-SN BR	0.75	40	15	0
10:51 AM	28.4	1007.7	None	-SN BR	0.75	50	11.5	0
11:51 AM	28.4	1008.3	None	-SN BR	0.75	30	12.7	0
12:51 PM	26.6	1008.4	None	-SN BR	0.75	10	15	0
1:51 PM	26.6	1008.2	None	-SN BR	0.75	20	11.5	0
2:51 PM	26.6	1008.7	T	BR	1.5	20	15	0
3:51 PM	26.6	1010.5	None	-SN	3	350	17.3	0
4:51 PM	24.8	1012.8	T	-SN BR	2	350	16.1	25.3
5:51 PM	24.8	1014.7	T	-SN	5	360	19.6	25.3
6:51 PM	24.8	1016.5	None	None	10	10	20.7	27.6
7:51 PM	24.8	1018	None	None	10	20	17.3	24.2
8:51 PM	23	1019.1	None	None	10	20	10.4	0
9:51 PM	23	1020.5	None	None	10	360	11.5	0
10:51 PM	21.2	1021.3	None	None	10	360	11.5	0.0
11:51 PM	21.2	1022.6	None	None	10	20	13.8	0

Statistics for March 5 and 6

Temperature	Total Precipitation	Visibility Maximum	Wind Speed Maximum
Maximum 51.8	0.67	10	20.7
Minimum 21.2		0.5	27.6

Key:

M: Missing data - no observation taken
 Weather Elements: BR = Mist
 FG = Fog
 Precipitation Type: R = Rain
 DZ = Drizzle
 FRZ R/DZ = Freezing Rain or Drizzle
 SN = Snow
 TS = Thunderstorm
 Precipitation Qualifier: "-" = Light
 "no sign" = Moderate
 "+" = Heavy
 Rainfall: T = < 0.05 in
 Snowfall: T = < 0.5 in

Weather Observations - John F. Kennedy Airport

Location: New York, New York
 Latitude: 40°38'N
 Longitude: 73°46'W
 Elevation: 11 (ft)



March 5, 2003

Time (Local)	Temp (F)	Pressure (mb)	Precipitation (in)	Significant Weather	Visibility (mi)	Wind		
						Direction (degrees)	Speed (mph)	Gusts (mph)
12:51 AM	33.8	1017.8	None	None	10	100	4.6	0
1:51 AM	33.8	1016.7	None	None	10	70	3.5	0
2:51 AM	35.6	1015.1	None	None	10	60	5.8	0
3:51 AM	35.6	1013.8	T	None	9	30	4.6	0
4:51 AM	35.6	1013	0.01	-RA BR	6	30	4.6	0
5:51 AM	37.4	1011.9	0.05	-RA BR	5	50	4.6	0
6:51 AM	39.2	1011.1	0.09	RA BR	0.5	40	3.5	0
7:51 AM	41	1009.8	0.11	-RA BR	0.5	140	5.8	0
8:51 AM	42.8	1009	0.09	-RA BR	0.25	160	4.6	0
9:51 AM	42.8	1007.5	0.05	-RA BR	0.25	110	3.5	0
10:51 AM	44.6	1006.4	T	-RA BR	0.25	0	0	0
11:51 AM	44.6	1005.6	0.04	-RA BR	0.25	320	8.1	0
12:51 PM	44.6	1004.4	T	BR	1	340	4.6	0
1:51 PM	48.2	No Report	None	BR	4	0	0	0
2:51 PM	50	1003.1	None	None	7	200	5.8	0
3:51 PM	48.2	1003.3	None	None	7	230	13.8	0
4:51 PM	48.2	1004.1	None	None	7	220	11.5	0
5:51 PM	48.2	1004.4	None	None	9	250	10.4	0
6:51 PM	50	1005.7	None	None	10	250	16.1	0
7:51 PM	48.2	1006.2	None	None	10	280	10.4	0
8:51 PM	44.6	1007.1	None	None	10	250	9.2	0
9:51 PM	46.4	1007.9	None	None	9	270	10.4	0
10:51 PM	46.4	1008	None	None	10	280	8.1	0.0
11:51 PM	42.8	1009.3	None	None	10	330	10.4	0

March 6, 2003

Time (Local)	Temp (F)	Pressure (mb)	Precipitation (in)	Significant Weather	Visibility (mi)	Wind		
						Direction (degrees)	Speed (mph)	Gusts (mph)
12:51 AM	42.8	1009.4	None	None	10	330	5.8	0
1:51 AM	41	1009.6	None	None	10	310	10.4	0
2:51 AM	39.2	1009	None	None	10	330	15	0
3:51 AM	39.2	1009.3	None	None	10	360	11.5	0
4:51 AM	35.6	1010	0.02	-RA	10	350	8.1	0
5:51 AM	35.6	1010.1	0.03	-RA	8	10	9.2	0
6:51 AM	33.8	1010.3	0.02	-RA	9	20	12.7	0
7:51 AM	32	1010.5	0.05	BR	6	20	12.7	0
8:51 AM	30.2	1011.3	0.05	BR	5	10	15	0
9:51 AM	28.4	1009.5	0.05	BR	1	10	13.8	0
10:51 AM	28.4	1008.2	0.06	BR	2	30	13.8	21.9
11:51 AM	28.4	1007.8	0.08	-SN BR	1	20	16.1	0
12:51 PM	28.4	1007.7	0.07	-SN BR DR SN	0.5	10	16.1	0
1:51 PM	28.4	1007.9	0.08	SN	0.5	10	15	0
2:51 PM	28.4	1008.4	0.02	-SN	8	30	15	0
3:51 PM	28.4	1010.5	0.01	-SN	7	10	13.8	0
4:51 PM	26.6	1012.5	0.01	-SN BR	1.5	340	15	24.2
5:51 PM	24.8	1014.6	T	-SN DR SN	2.5	340	18.4	0
6:51 PM	24.8	1016.3	T	DR SN	10	350	17.3	0
7:51 PM	23	1018	None	None	10	350	19.6	28.8
8:51 PM	21.2	1019.3	None	None	10	360	8.1	0
9:51 PM	21.2	1020.9	None	None	10	350	15	0
10:51 PM	21.2	1021.3	None	None	10	350	13.8	0.0
11:51 PM	19.4	1022.8	None	None	10	350	12.7	0

Statistics for March 5 and 6

Temperature	Total Percipitation	Visibility Maximum	Wind Speed Maximum
Maximum	50	10	19.6
Minimum	19.4	0.25	28.8

Key:

M: Missing data - no observation taken
 Weather Elements: BR = Mist
 FG = Fog
 Precipitation Type: R = Rain
 DZ = Drizzle
 FRZ R/DZ = Freezing Rain or Drizzle
 SN = Snow
 TS = Thunderstorm
 Precipitation Qualifier: "-" = Light
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