

May 12, 2014

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RE: Case No. 13-35050 CA 21

Location of Interest: 3453 SW 25 Terrace, Miami, FL 33133

Time Period of Interest: July 25 – 27, 2013

To Whom It May Concern:

Included with this letter you will find information you requested from our office concerning weather observations for the area of Miami, Florida. Hourly observations provided were taken from the Automated Surface Observing System (ASOS) stations located at the Miami International Airport, the Opa Locka Airport and the Kendall-Tamiami Aiport, which are approximately 5, 12 and 13 miles from the location of interest, respectively. Data provided for this report are from July 25 – 27, 2013, though the focus of the report will be on the date of loss, listed as July 26, 2013. Also attached is a list of conversions and meteorological identifiers that will help you decipher the information. A map of the area, courtesy of Google Maps, has also been included. Note the locations of the stations and area of interest, marked by either yellow push-pins or other identifiers.

The ASOS system serves as the nation's primary surface weather observing network and is designed to support weather forecast activities and aviation operations and, at the same time, support the needs of the meteorological, hydrological, and climatological research communities. ASOS detects significant changes, disseminating hourly and special observations. These observations are on archive and were provided by the National Climate Data Center (NCDC).

Observations from Miami International Airport during the time period of interest, in which either wind gusts or rain/thunderstorms were present, are summarized for the three dates of interest. These observations are listed below:

Date	Time	Visibility	Temp		Relative Humidity	Wind	Wind Gust	Pressure	Present Weather	Report Type
25	1353	10 miles	92°F	70°F	49 %	East 9	16 mph	29.98"	None	Auto
						mph				





Date	Time	Visibility	Temp	Dew	Relative	Wind	Wind	Pressure	Present	Report
				Point	Humidity		Gust		Weather	Type
26	1653	10 miles	92°F	74°F	56%	WSW	24	29.96	None	Auto
						17	mph			
						mph				
26	1753	10 miles	88°F	74°F	63%	WSW	20	29.98"	None	Auto
						13	mph			
						mph				
26	1916	4 miles	81°F	72°F	74%	VAR	24	Missing	Thunder	Special
						6	mph		with	
						mph			Rain	

Date	Time	Visibility	Temp	Dew Point	Relative Humidity	Wind	Wind Gust	Pressure	Present Weather	Report Type
27	0953	4 miles	77°F	73°F	88%	NW		30.00"	Heavy	Auto
						11			Rain/Mist	
						mph				
27	1000	3 miles	79°F	73°F	82%	NW	18	30.00"	Heavy	Special
						8	mph		Rain	
						mph				
27	1053	5 miles	77°F	74°F	91%	E 8		30.03"	Rain/Mist	Auto
						mph				
27	2158	10 miles	81°F	75°F	82%	SW		Missing	Thunder	Special
						5				
						mph				
27	2153	10 miles	79°F	74°F	85%	SE 8		30.03"	Thunder	Auto
						mph				

Observations from Opa Locka Airport during the time period of interest, in which either gusty winds or rain/thunderstorms were present, are summarized for the three dates of interest. These observations are listed below:

Date	Time	Visibility	Temp	Dew	Relative	Wind	Wind	Pressure	Present	Report
				Point	Humidity		Gust		Weather	Type
26	1353	10 miles	92°F	74°F	56%	WSW	18	30.00"	None	Auto
						9	mph			
						mph				
26	1553	10 miles	93°F	74°F	54%	W 13	21	29.97"	None	Auto
						mph	mph			
26	1653	10 miles	91°F	73°F	56%	WSW	23	29.96"	None	Auto
						16	mph			
						mph				
26	1753	10 miles	90°F	72°F	56%	W 16	21	29.99"	None	Auto
						mph	mph			
26	1835	10 miles	82°F	72°F	72%	NNW	23	Missing	None	Special
						13	mph			
						mph				
26	1853	10 miles	81°F	72°F	74%	N 10		30.02"	Light	Auto
						mph			Rain	

Date	Time	Visibility	Temp	Dew Point	Relative Humidity	Wind	Wind Gust	Pressure	Present Weather	Report Type
27	0910	1.75	81°F	75°F	82%	SW		Missing	Heavy	Special
		miles				13			Rain	
	2000				222/	mph				
27	0933	2 miles	79°F	73°F	82%	W 5 mph		Missing	Heavy Rain	Special
27	0946	2 miles	81°F	75°F	82%	Calm		Missing	Light Rain	Special
27	0953	10 miles	80°F	75°F	85%	Calm		30.00"	Light Rain	Auto
27	1019	10 miles	79°F	73°F	82%	NW		Missing	Light	Special
						15			Rain	
						mph				
27	1025	2 miles	79°F	73°F	82%	W 13		Missing	Rain/Mist	Special
	40.50			- 40-	2.10/	mph		22.22"		
27	1053	2 miles	76°F	74°F	94%	NNE 6		30.03"	Rain	Auto
						mph				
27	1106	3 miles	77°F	73°F	88%	E 6		Missing	Light	Special
						mph			Rain/Mist	
27	1153	6 miles	77°F	74°F	91%	ESE		30.01"	Mist	Auto
						6 mph				
27	2206	10 miles	82°F	75°F	79%	Calm		Missing	Vicinity	Special
									Thunder	-
27	2253	10 miles	82°F	76°F	82%	S 9		30.02"	Vicinity	Auto
						mph			Thunder	

Observations from Kendall-Tamiami Airport during the time period of interest, in which either gusty winds or rain/thunderstorms were present, are summarized for the three dates of interest. These observations are listed below:

Date	Time	Visibility	Temp		Relative Humidity		Wind Gust	Pressure	Present Weather	Report Type
25	1253	10 miles	91°F	72°F	54%	W 14	18	30.02	None	Auto
						mph	mph			

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Date	Time	Visibility	Temp	Dew	Relative	Wind	Wind	Pressure	Present	Report
				Point	Humidity		Gust		Weather	Type
26	1153	10 miles	89°F	74°F	61%	W 10	16	30.03"	None	Auto
						mph	mph			
26	1253	10 miles	92°F	73°F	54%	W 8	18	30.02"	None	Auto
						mph	mph			
26	1353	10 miles	92°F	74°F	56%	W 8	17	30.00"	None	Auto
						mph	mph			
26	1653	10 miles	90°F	74°F	59%	W 16	23	29.97"	None	Auto
						mph	mph			
26	1753	10 miles	88°F	74°F	63%	WSW	22	29.98"	None	Auto
						15	mph			
						mph				

Date	Time	Visibility	Temp	Dew Point	Relative Humidity	Wind	Wind Gust	Pressure	Present Weather	Report Type
27	2151	10 miles	81°F	77°F	88%	S 5		Missing	Vicinity	Special
						mph			Thunder	
27	2153	10 miles	80°F	77°F	91%	S 6		30.02"	Vicinity	Auto
						mph			Thunder	
27	2251	10 miles	79°F	73°F	82%	S 6		Missing	Vicinity	Special
						mph		_	Thunder	
27	2253	10 miles	79°F	73°F	82%	S 6		30.02"	Vicinity	Auto
						mph			Thunder	

Hourly observations from both airports indicate that light rain fell in the area on the 4th. Daily values of temperatures and precipitation from each station are included with this report. Any variable listed as -999 represents a missing value for the day.

Station	NWS COOP	Time of Observation	Rainfall Total	Rainfall Total	Rainfall Total	Rainfall Total
	ID		07/25/2013	07/26/2013	07/27/2013	07/28/2013
Miami International AP	085663	2400	0.00"	0.01"	0.44"	0.05"
Opa Locka Airport	KOPF	2400	0.00"	0.00"	1.07"	0.07"
Kendall- Miami Airport	KTMB	2400	0.00"	0.00"	0.00"	0.46"

Also included with this letter are official paper copies of requested radar images, provided by NCDC, for certain times during the event. The images provided are known as Base Reflectivity Images, which display echo intensity measured in dBZ (decibels of Z, where Z represents the energy reflected back to the radar). The scale of dBZ values is also related to the intensity of rainfall. Dates and times are located on the right hand side of each image (year/month/date/time are given in GMT). Since time is given in GMT, the date on the first image reflects being taken at 23:07 GMT on the 26th, which corresponds to 7:03PM EDT on the 26th.

The provided images were taken from the radar site located in Miami/Dade County, located near the Kendall-Tamiami airport and the approximate location of interested is noted on each image. You will notice an abundance of DBZ values between 5 and 15 dBZs, due to ground clutter and backscatter from clouds, smoke, fog, and temperature inversions; even buildings and antenna towers can reflect small amounts of radar energy during a radar sweep. Typically, light rain is occurring when the dBZ value reaches 20. Depending on the type of weather occurring and the area of the U.S., forecasters use a set of rain-rates, which correspond to the dBZ values.

On the 26th, the radar indicated a line of moderate to strong storms to the north of the location of interest, however, an outflow boundary (a surface boundary formed by the horizontal spreading of thunderstorm-cooled air) is shown on the radar image and, over the course of the next 50 minutes, moves south of the main line of storm activity. At 00:00 GMT on the 27th (8:00PM EDT on the 26th), the outflow boundary interacted with some warmer air and formed another line of storms just to the northwest of the location. From 00:04 GMT on the 27th until 01:07 GMT (or 8:04 PM EDT to 9:07 PM EDT on the 26th), radar images indicate dBZ values between 45 and 50 passed over the area of interest. Values of 45-50 dBZ usually indicate moderate to heavy rainfall.

Based on the data provided to us, stations surrounding the area of interest reported rainfall and radar images indicate that moderate to heavy rain fell briefly over the location of interest.

I hereby certify that the data provided are true copies of the specified records and/or publications for the times and places indicated thereon on file at the National Climatic Data Center in Asheville, NC, and the Southeast Regional Climate Center in Chapel Hill, NC.

Sincerely,

Melissa L. Griffin Climate Services Assistant Florida Climate Center The Florida State University (850) 644-0719