

MIAMI-SOUTH FLORIDA

National Weather Service Forecast Office

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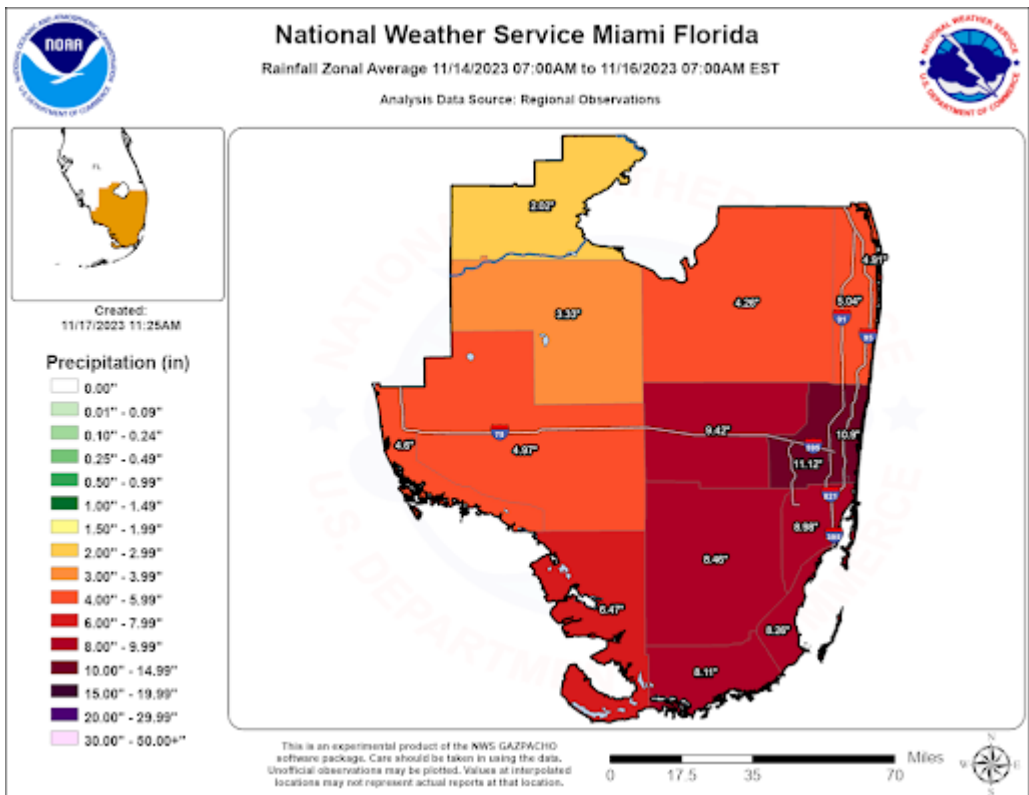
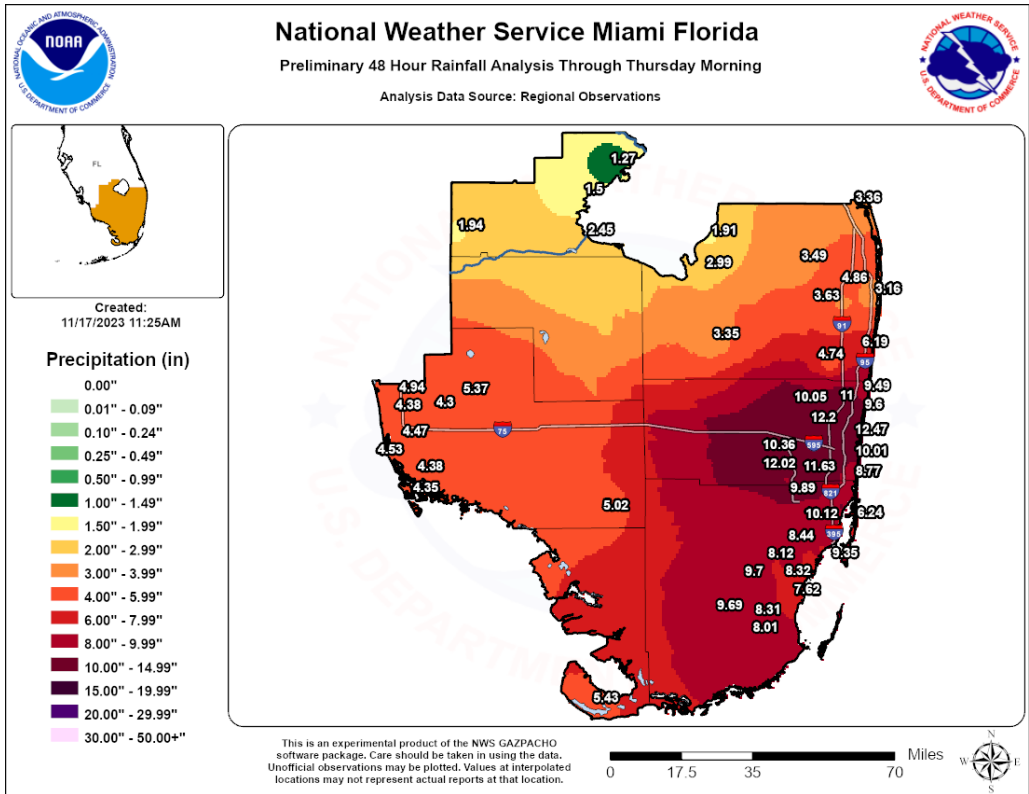
Brief Summary of Heavy Rain/High Wind Event

November 14-16, 2023

Heavy rainfall and strong winds affected much of South Florida resulting from a low pressure area which developed along a stalled front over the Straits of Florida, Florida Keys, and far southern Florida peninsula. A strong mid/upper-level trough moving east from the Gulf of Mexico, along with deep moisture from the Atlantic and Caribbean, promoted the development of widespread heavy rainfall. In addition, the low pressure helped to produce a short period of strong winds across South Florida from Wednesday evening, November 15th through Thursday morning, November 16th.

Widespread storm total rainfall amounts of 8-12 inches were measured across Miami-Dade and Broward counties, with 4-6 inches over Collier and southern Palm Beach counties (Figures 1 and 2). This led to extensive flooding, primarily in Broward County and northern Miami-Dade County.

Wind gusts in excess of 40 mph affected most of South Florida from Wednesday afternoon through Thursday morning, with gusts as high as 60-70 mph right along the SE Florida coast. Extensive tree damage was reported in these areas.



Figures 1 and 2: 48-hour storm total rainfall across South Florida for period 7 AM November 14th to 7 AM November 16th

Below are the highest wind measurements and storm-total precipitation from across the region:

Highest Wind Gusts

Location	Highest Wind Gust (mph)
Government Cut (elevated platform)	75
Port Everglades (elevated platform)	73
Dania Pier	70
Delray Beach (oceanfront)	62
Hillsboro Inlet	60
Juno Beach Pier	60
Lake Worth Pier	59
Virginia Key (elevated platform)	58
Palm Beach International Airport	56
Fort Lauderdale/Hollywood Airport	55
Pompano Airpark	55
Boca Raton	55
North Miami	55
Opa Locka Airport	54
Hollywood North Perry Airport	53
Homestead Air Reserve Base	52
Loxahatchee	50

Oasis Ranger Station	50
Naples Municipal Airport	48
Miami International Airport	48

**Highest Storm-Total Precipitation (48 hours ending 7 AM Thursday,
November 16)**

Location	Precipitation (inches) 7 AM Nov 14 – 7 AM Nov 16
Lauderdale-By-The-Sea	13.31
Oakland Park	12.92
Wilton Manors	12.47
Cooper City	12.29
Fort Lauderdale Executive Airport	12.20
Pembroke Pines	12.02
Pompano Beach	11.00
Plantation	10.59
Weston	10.36
Biscayne Park	10.12
Margate	10.05
Fort Lauderdale/Hollywood Airport	10.01
Miramar	9.89
North Miami	9.82

The Hammocks	9.70
Coral Gables	9.37
Coconut Grove	9.35
Miami International Airport	8.44
Homestead	8.31
Kendall	8.12
South Miami	7.70
Palmetto Bay	7.43
Cutler Bay	6.55
Homestead Air Reserve Base	6.44
Delray Beach	6.19
Orangetree	5.37
North Naples	4.94
Golden Lakes	4.86
Boca Raton	4.74
Naples Manor	4.53
Marco Island	4.35
Greenacres	3.63
Loxahatchee	3.49
Jupiter	3.36
Naples Municipal Airport	3.28