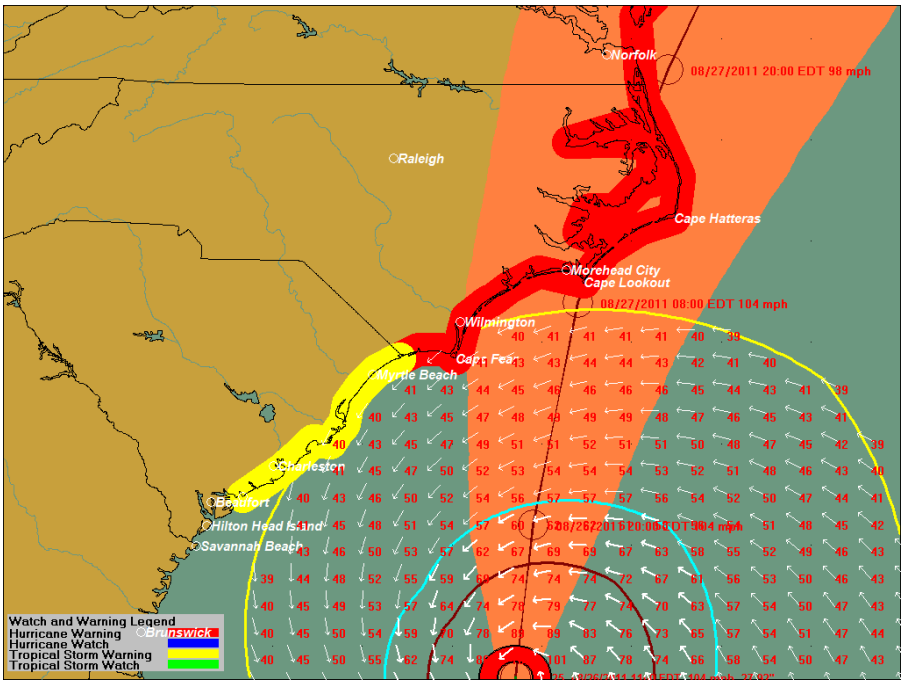


Description of impact to Wilmington, NC

Wilmington, NC is expected to receive a moderate impact from Hurricane IRENE.

Northeasterly gale force winds should start affecting the area on Friday, August 26th at 12 PM EDT with storm force winds arriving around 1 AM. The highest wind speeds from Hurricane IRENE should occur near 5 AM when top sustained winds, from the North, could reach 66 MPH with gusts near 83 MPH. Winds should decrease below storm force 4 hours later.

Sustained winds will fall below gale force after 2 PM and generally be from the North during this period of decreasing winds. Expect gusts above gale force level for several more hours thereafter.

Wind damage from Hurricane IRENE could include some loss of roofing material, gutters and/or awning and loss of vinyl or metal siding.

The total rainfall for the Wilmington area over the next 3 days is forecast to be 10. inches. This can vary significantly as tropical storm and hurricane rainfall is very difficult to predict.

There is a small chance that the coastal area 5 mi. East of Wilmington could experience a storm surge of 5 feet.

Latest Position: 245 mi. South (172 degrees) of Wilmington, NC

Latitude	Longitude	Motion (mph)	Wind Speed (MPH)	Central Pressure (in.)	74 mph NE	74 mph SE	74 mph SW	74 mph NW	58 mph NE	58 mph SE	58 mph SW	58 mph NW	39 mph NE	39 mph SE	39 mph SW	39 mph NW	Eye diam	Eye wall
30.7	-77.3	360/16	104	27.92	80	80	50	50	125	105	75	75	250	200	130	175	18	9

Watches and Warnings

Hurricane Warning from Albemarle-a, NC to Albemarle-b, NC
Hurricane Warning from Pamilco-a, NC to Pamlico-b, NC
Hurricane Warning from Little River Inlet, SC to Sandy Hook, NJ
Hurricane Warning from Delaware Bay-a, DE to Delaware Bay-b, DE
Tropical Storm Warning from Edisto Beach, SC to Little River Inlet, SC
Hurricane Watch from Sandy Hook, NJ to Merrimack River, MA

Official Forecast

Hour	Date (UTC)	Time (UTC)	Latitude	Longitude	Wind Speed (MPH)	74 mph NE	74 mph SE	74 mph SW	74 mph NW	58 mph NE	58 mph SE	58 mph SW	58 mph NW	39 mph NE	39 mph SE	30 mph SW	39 mph NW
Initial	08/26/2011	1500	30.7	-77.3	104	080	080	050	050	125	105	075	075	250	200	130	175
12	08/27/2011	0000	32.2	-77.1	104	080	080	050	050	125	105	075	075	250	200	130	175
24	08/27/2011	1200	34.4	-76.6	104	080	080	050	050	125	105	075	075	250	200	130	160
36	08/28/2011	0000	36.7	-75.6	98	080	080	050	050	125	105	075	075	250	200	130	160
48	08/28/2011	1200	39.5	-74.1	86					120	120	075	060	270	240	140	120
72	08/29/2011	1200	47.5	-68.8	63					120	120	075	000	300	270	140	100
96	08/30/2011	1200	55.5	-57	46												
120	08/31/2011	1200	59	-38	46												

Strike Probabilities for Wilmington, NC

TOTAL	Next 24 hours	24 - 36 hours	36- 48 hours	48-72 hours
40	40	0	0	0

Surge Probabilities for Wilmington, NC (5 mi. East)

5 Foot Storm Surge	10 Foot Storm Surge	15 Foot Storm Surge	20 Foot Storm Surge
38%	10%	1%	0%

Forecast Impact Summary for Wilmington, NC

Max Wind (avg/gust)	Max Wind Date/Time	CPA	Rain		Arr. hrs.	Time of arrival	Time of departure	Duration
66 / 83 mph.	Saturday, 08/27/2011 05:00 EDT	71 mi.	10.0"	39 mph	1	08/26/2011 12:00 EDT	08/27/2011 14:30 EDT	27
				58 mph	14	08/27/2011 01:30 EDT	08/27/2011 09:30 EDT	9

Forecast Impact Detail

Date / Time	Time of Day	Wind Speed (avg/gust)	Wind Dir. (degs.)	Distance to 39 mph winds (mi.)	Distance to 58 mph winds (mi.)	Distance to 74 mph winds (mi.)	Distance to center (mi.)	Comments
Friday, 08/26/2011 12:00 EDT	DAY	039/049 mph	056		0124	0162	0234	Minor damage
Friday, 08/26/2011 12:30 EDT	DAY	040/050 mph	056		0120	0157	0228	Minor damage
Friday, 08/26/2011 13:00 EDT	DAY	041/051 mph	055		0114	0151	0222	Minor damage
Friday, 08/26/2011 13:30 EDT	DAY	042/052 mph	055		0109	0146	0218	Minor damage
Friday, 08/26/2011 14:00 EDT	DAY	042/053 mph	054		0104	0140	0212	Minor damage
Friday, 08/26/2011 14:30 EDT	DAY	043/054 mph	054		0098	0136	0206	Minor damage
Friday, 08/26/2011 15:00 EDT	DAY	044/055 mph	053		0093	0130	0200	Minor damage
Friday, 08/26/2011 15:30 EDT	DAY	045/056 mph	053		0088	0124	0195	Minor damage
Friday, 08/26/2011 16:00 EDT	DAY	046/057 mph	052		0083	0120	0190	Minor damage
Friday, 08/26/2011 16:30 EDT	DAY	046/058 mph	052		0077	0114	0184	Minor damage
Friday, 08/26/2011 17:00 EDT	DAY	047/059 mph	051		0073	0109	0178	Minor damage
Friday, 08/26/2011 17:30 EDT	DAY	048/060 mph	050		0067	0104	0173	Minor damage
Friday, 08/26/2011 18:00 EDT	DAY	048/061 mph	050		0062	0099	0168	Minor damage
Friday, 08/26/2011 18:30 EDT	DAY	049/061 mph	049		0058	0093	0162	Minor damage
Friday, 08/26/2011 19:00 EDT	DAY	050/062 mph	048		0052	0089	0157	Minor damage
Friday, 08/26/2011 19:30 EDT	DAY	051/063 mph	047		0048	0084	0152	Minor damage
Friday, 08/26/2011 20:00 EDT	NIGHT	051/064 mph	046		0044	0078	0146	Minor damage
Friday, 08/26/2011 20:30 EDT	NIGHT	052/065 mph	045		0038	0074	0140	Minor damage
Friday, 08/26/2011 21:00 EDT	NIGHT	053/066 mph	044		0035	0069	0136	Minor damage
Friday, 08/26/2011 21:30 EDT	NIGHT	053/067 mph	042		0030	0064	0130	Minor damage
Friday, 08/26/2011 22:00 EDT	NIGHT	054/068 mph	041		0025	0059	0124	Minor damage
Friday, 08/26/2011 22:30 EDT	NIGHT	055/068 mph	039		0021	0055	0120	Minor damage
Friday, 08/26/2011 23:00 EDT	NIGHT	055/069 mph	037		0017	0050	0114	Minor damage
Friday, 08/26/2011 23:30 EDT	NIGHT	056/070 mph	035		0014	0046	0109	Minor damage
Saturday, 08/27/2011 00:00 EDT	NIGHT	056/070 mph	032		0010	0043	0105	Minor damage
Saturday, 08/27/2011 00:30 EDT	NIGHT	057/071 mph	030		0007	0039	0100	Minor damage
Saturday, 08/27/2011 01:00 EDT	NIGHT	057/072 mph	027		0005	0036	0096	Minor damage
Saturday, 08/27/2011 01:30 EDT	NIGHT	058/072 mph	024		0002	0032	0091	Minor damage
Saturday, 08/27/2011 02:00 EDT	NIGHT	058/072 mph	021			0030	0088	Minor damage
Saturday, 08/27/2011 02:30 EDT	NIGHT	059/074 mph	017			0026	0084	Minor damage
Saturday, 08/27/2011 03:00 EDT	NIGHT	061/076 mph	013			0023	0081	Minor damage
Saturday, 08/27/2011 03:30 EDT	NIGHT	063/078 mph	009			0021	0078	Minor damage
Saturday, 08/27/2011 04:00 EDT	NIGHT	064/080 mph	005			0018	0076	Minor damage
Saturday, 08/27/2011 04:30 EDT	NIGHT	065/081 mph	360			0016	0074	Minor damage
Saturday, 08/27/2011 05:00 EDT	NIGHT	066/082 mph	355			0015	0073	Minor damage
Saturday, 08/27/2011 05:30 EDT	NIGHT	066/083 mph	350			0014	0071	Minor damage
Saturday, 08/27/2011 06:00 EDT	NIGHT	066/083 mph	345			0014	0071	Minor damage
Saturday, 08/27/2011 06:30 EDT	NIGHT	066/083 mph	340			0014	0071	Minor damage
Saturday, 08/27/2011 07:00 EDT	DAY	066/082 mph	335			0015	0073	Minor damage
Saturday, 08/27/2011 07:30 EDT	DAY	065/081 mph	330			0016	0074	Minor damage
Saturday, 08/27/2011 08:00 EDT	DAY	064/080 mph	325			0018	0076	Minor damage
Saturday, 08/27/2011 08:30 EDT	DAY	062/077 mph	321			0022	0079	Minor damage
Saturday, 08/27/2011 09:00 EDT	DAY	060/074 mph	317			0026	0084	Minor damage
Saturday, 08/27/2011 09:30 EDT	DAY	058/072 mph	313		0002	0031	0089	Minor damage
Saturday, 08/27/2011 10:00 EDT	DAY	056/070 mph	310		0007	0036	0093	Minor damage
Saturday, 08/27/2011 10:30 EDT	DAY	055/069 mph	307		0012	0040	0098	Minor damage
Saturday, 08/27/2011 11:00 EDT	DAY	053/067 mph	304		0017	0046	0104	Minor damage
Saturday, 08/27/2011 11:30 EDT	DAY	052/065 mph	302		0022	0051	0108	Minor damage
Saturday, 08/27/2011 12:00 EDT	DAY	050/063 mph	300		0028	0056	0114	Minor damage
Saturday, 08/27/2011 12:30 EDT	DAY	048/060 mph	298		0033	0062	0120	Minor damage
Saturday, 08/27/2011 13:00 EDT	DAY	047/058 mph	296		0039	0068	0126	Minor damage
Saturday, 08/27/2011 13:30 EDT	DAY	045/056 mph	294		0046	0075	0132	Minor damage

Date / Time	Time of Day	Wind Speed (avg/gust)	Wind Dir. (degs.)	Distance to 39 mph winds (mi.)	Distance to 58 mph winds (mi.)	Distance to 74 mph winds (mi.)	Distance to center (mi.)	Comments
Saturday, 08/27/2011 14:00 EDT	DAY	043/053 mph	293		0052	0081	0138	Minor damage
Saturday, 08/27/2011 14:30 EDT	DAY	041/051 mph	292		0058	0086	0144	Minor damage