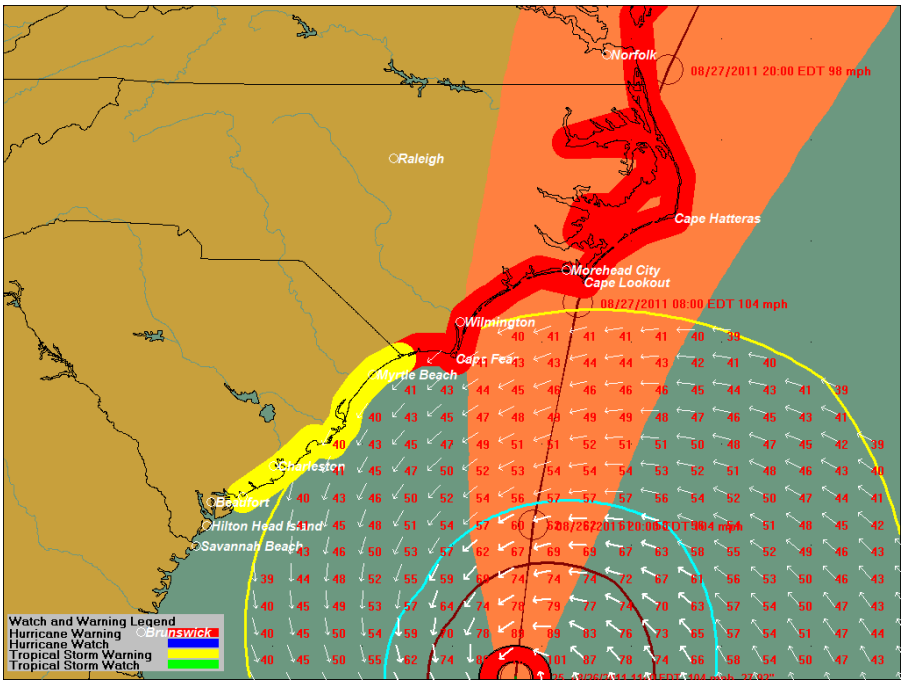


Description of impact to Morehead City, NC

Morehead City, NC is expected to receive a major impact from Hurricane IRENE.

Easterly gale force winds should start affecting the area on Friday, August 26th at 1 PM EDT with storm force winds arriving around 12 AM and Northeasterly hurricane force winds arriving near 4 AM. The highest wind speeds from Hurricane IRENE should occur near 8 AM when top sustained winds, from the Northeast, could reach 104 MPH with gusts near 130 MPH. Winds should decrease below hurricane force 5 hours later.

Sustained winds will fall below gale force after 9 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 be quite extensive with some homes shifted off of their foundation, roofs removed and collapse of some exterior walls.

The total rainfall for the Morehead City area over the next 3 days is forecast to be 15. 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 3 mi. Southeast of Morehead City could experience a storm surge of 5 feet.

Latest Position: 280 mi. South (187 degrees) of Morehead City, 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 Morehead City, NC

TOTAL	Next 24 hours	24 - 36 hours	36- 48 hours	48-72 hours
39	38	1	0	0

Surge Probabilities for Morehead City, NC (3 mi. Southeast)

5 Foot Storm Surge	10 Foot Storm Surge	15 Foot Storm Surge	20 Foot Storm Surge
26%	2%	0%	0%

Forecast Impact Summary for Morehead City, NC

Max Wind (avg/gust)	Max Wind Date/Time	CPA	Rain		Arr. hrs.	Time of arrival	Time of departure	Duration
104 / 130 mph.	Saturday, 08/27/2011 08:30 EDT	15 mi.	15.0"	39 mph	2	08/26/2011 13:30 EDT	08/27/2011 21:00 EDT	33
				58 mph	13	08/27/2011 00:30 EDT	08/27/2011 15:30 EDT	16
				74 mph	17	08/27/2011 04:00 EDT	08/27/2011 13:30 EDT	10

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 13:30 EDT	DAY	039/049 mph	072		0131	0174	0251	Minor damage
Friday, 08/26/2011 14:00 EDT	DAY	040/050 mph	072		0126	0168	0245	Minor damage
Friday, 08/26/2011 14:30 EDT	DAY	041/051 mph	072		0120	0162	0240	Minor damage
Friday, 08/26/2011 15:00 EDT	DAY	042/052 mph	072		0114	0157	0234	Minor damage
Friday, 08/26/2011 15:30 EDT	DAY	042/053 mph	072		0108	0151	0228	Minor damage
Friday, 08/26/2011 16:00 EDT	DAY	043/054 mph	072		0102	0144	0221	Minor damage
Friday, 08/26/2011 16:30 EDT	DAY	044/055 mph	072		0097	0138	0215	Minor damage
Friday, 08/26/2011 17:00 EDT	DAY	045/056 mph	072		0091	0132	0210	Minor damage
Friday, 08/26/2011 17:30 EDT	DAY	046/057 mph	072		0084	0127	0204	Minor damage
Friday, 08/26/2011 18:00 EDT	DAY	047/058 mph	072		0078	0121	0198	Minor damage
Friday, 08/26/2011 18:30 EDT	DAY	047/059 mph	072		0073	0115	0192	Minor damage
Friday, 08/26/2011 19:00 EDT	DAY	048/060 mph	072		0067	0109	0187	Minor damage
Friday, 08/26/2011 19:30 EDT	DAY	049/061 mph	072		0061	0104	0181	Minor damage
Friday, 08/26/2011 20:00 EDT	NIGHT	050/062 mph	072		0055	0098	0175	Minor damage
Friday, 08/26/2011 20:30 EDT	NIGHT	051/064 mph	072		0050	0092	0169	Minor damage
Friday, 08/26/2011 21:00 EDT	NIGHT	052/065 mph	072		0043	0085	0162	Minor damage
Friday, 08/26/2011 21:30 EDT	NIGHT	053/066 mph	072		0037	0079	0157	Minor damage
Friday, 08/26/2011 22:00 EDT	NIGHT	054/067 mph	071		0031	0073	0150	Minor damage
Friday, 08/26/2011 22:30 EDT	NIGHT	054/068 mph	071		0024	0066	0143	Minor damage
Friday, 08/26/2011 23:00 EDT	NIGHT	055/069 mph	071		0018	0060	0137	Minor damage
Friday, 08/26/2011 23:30 EDT	NIGHT	056/070 mph	071		0012	0053	0130	Minor damage
Saturday, 08/27/2011 00:00 EDT	NIGHT	057/072 mph	070		0006	0047	0124	Minor damage
Saturday, 08/27/2011 00:30 EDT	NIGHT	058/073 mph	070			0040	0117	Minor damage
Saturday, 08/27/2011 01:00 EDT	NIGHT	061/076 mph	070			0035	0111	Minor damage
Saturday, 08/27/2011 01:30 EDT	NIGHT	063/079 mph	069			0029	0105	Minor damage
Saturday, 08/27/2011 02:00 EDT	NIGHT	065/082 mph	069			0022	0098	Minor damage
Saturday, 08/27/2011 02:30 EDT	NIGHT	068/085 mph	069			0016	0092	Minor damage
Saturday, 08/27/2011 03:00 EDT	NIGHT	070/088 mph	068			0009	0085	Minor damage
Saturday, 08/27/2011 03:30 EDT	NIGHT	073/091 mph	067			0003	0079	Minor damage
Saturday, 08/27/2011 04:00 EDT	NIGHT	074/093 mph	067				0073	Minimal damage
Saturday, 08/27/2011 04:30 EDT	NIGHT	075/093 mph	066				0067	Minimal damage
Saturday, 08/27/2011 05:00 EDT	NIGHT	076/095 mph	065				0060	Minimal damage
Saturday, 08/27/2011 05:30 EDT	NIGHT	078/098 mph	063				0054	Minimal damage
Saturday, 08/27/2011 06:00 EDT	NIGHT	081/102 mph	062				0047	Minimal damage
Saturday, 08/27/2011 06:30 EDT	NIGHT	085/106 mph	060				0041	Minimal damage
Saturday, 08/27/2011 07:00 EDT	DAY	089/112 mph	057				0035	Minimal damage
Saturday, 08/27/2011 07:30 EDT	DAY	095/118 mph	053				0029	Minimal damage
Saturday, 08/27/2011 08:00 EDT	DAY	101/126 mph	047				0023	Moderate damage
Saturday, 08/27/2011 08:30 EDT	DAY	104/130 mph	039				0018	* Eye Wall *, Moderate damage
Saturday, 08/27/2011 09:00 EDT	DAY	104/130 mph	025				0015	* Eye Wall *, Moderate 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 09:30 EDT	DAY	104/130 mph	359				0015	* Eye Wall *, Moderate damage
Saturday, 08/27/2011 10:00 EDT	DAY	102/128 mph	328				0017	* Eye Wall *, Moderate damage
Saturday, 08/27/2011 10:30 EDT	DAY	100/125 mph	305				0022	Moderate damage
Saturday, 08/27/2011 11:00 EDT	DAY	092/115 mph	296				0028	Minimal damage
Saturday, 08/27/2011 11:30 EDT	DAY	085/106 mph	290				0035	Minimal damage
Saturday, 08/27/2011 12:00 EDT	DAY	080/101 mph	285				0040	Minimal damage
Saturday, 08/27/2011 12:30 EDT	DAY	077/096 mph	282				0047	Minimal damage
Saturday, 08/27/2011 13:00 EDT	DAY	075/094 mph	280				0054	Minimal damage
Saturday, 08/27/2011 13:30 EDT	DAY	074/093 mph	278				0061	Minimal damage
Saturday, 08/27/2011 14:00 EDT	DAY	071/089 mph	277			0005	0068	Minor damage
Saturday, 08/27/2011 14:30 EDT	DAY	068/085 mph	276			0012	0075	Minor damage
Saturday, 08/27/2011 15:00 EDT	DAY	064/080 mph	275			0018	0082	Minor damage
Saturday, 08/27/2011 15:30 EDT	DAY	060/075 mph	274			0024	0089	Minor damage
Saturday, 08/27/2011 16:00 EDT	DAY	057/072 mph	273		0002	0031	0096	Minor damage
Saturday, 08/27/2011 16:30 EDT	DAY	056/070 mph	273		0009	0038	0102	Minor damage
Saturday, 08/27/2011 17:00 EDT	DAY	054/067 mph	272		0016	0045	0109	Minor damage
Saturday, 08/27/2011 17:30 EDT	DAY	052/065 mph	272		0023	0052	0116	Minor damage
Saturday, 08/27/2011 18:00 EDT	DAY	050/063 mph	271		0030	0059	0123	Minor damage
Saturday, 08/27/2011 18:30 EDT	DAY	049/061 mph	271		0036	0064	0130	Minor damage
Saturday, 08/27/2011 19:00 EDT	DAY	047/059 mph	270		0043	0071	0137	Minor damage
Saturday, 08/27/2011 19:30 EDT	DAY	045/057 mph	270		0050	0078	0144	Minor damage
Saturday, 08/27/2011 20:00 EDT	NIGHT	043/054 mph	270		0056	0085	0151	Minor damage
Saturday, 08/27/2011 20:30 EDT	NIGHT	042/052 mph	270		0064	0093	0159	Minor damage
Saturday, 08/27/2011 21:00 EDT	NIGHT	039/049 mph	270		0074	0102	0168	Minor damage