

Myrtle Beach, SC - KMYR Site Forecast

Hurricane Dorian

Hurricane Dorian Advisory 49

9/5/2019 9:00 AM CDT

Discussion

Hurricane Dorian's heaviest squalls are impacting central to upper coast of South Carolina at this hour. These squalls may produce wind, at least in gusts, to hurricane force. Hurricane-force winds are expected along the coast of North Carolina from late this afternoon through Friday morning as Dorian's center passes very near the coast. As Dorian moves east of the Outer Banks of North Carolina on Friday, its wind field will expand significantly. This could bring tropical storm-force wind to coastal Virginia and southern Maryland on Friday.

Winds of hurricane force are expected on the immediate coast of South Carolina this morning and along the North Carolina coast this afternoon into early Friday. Any deviation north of our forecast track will result in a landfall. Widespread and extended power outages are likely. Some wind damage may occur.

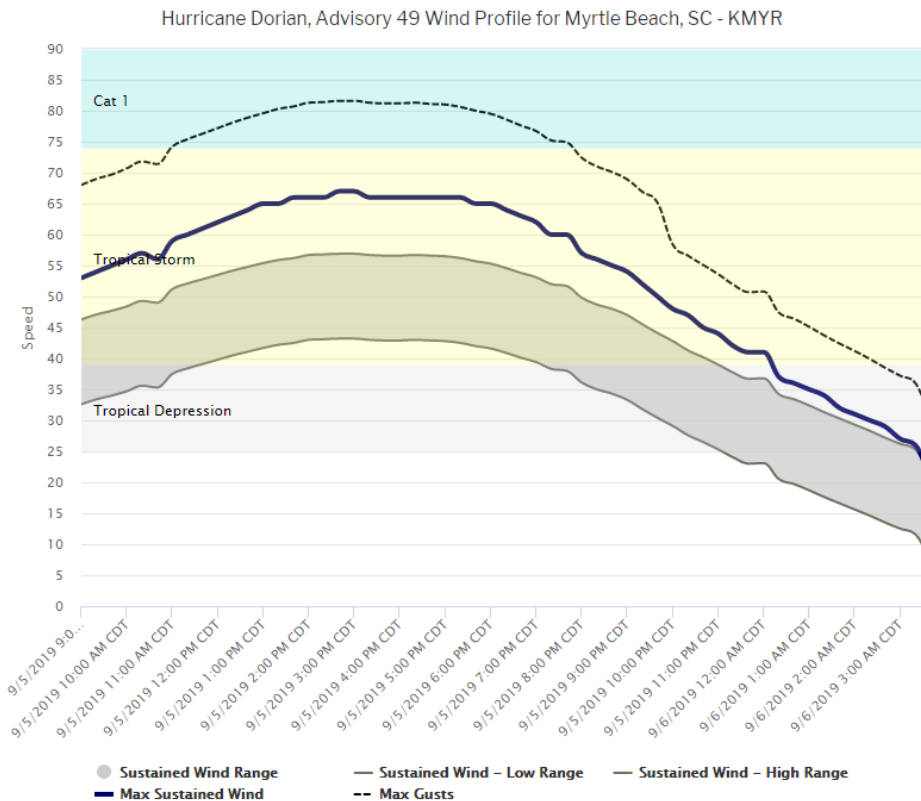
Rainfall

Additional rainfall amounts of 6-8 inches are possible. Widespread street flooding will result in major travel delays. The heaviest rains should occur as Dorian makes its closest approach to your location.

Storm Surge

With the center of Dorian projected to track offshore to the south of your location, the tidal increase today will be closer to 3-4 ft. Tides will slowly return to normal on Friday with offshore winds.

Wind Profile
Probability of Wind Impact
Site Summary
Worst Case Scenario



Valid Time	Wind Direction	Forecast Sustained Wind	Max Sustained Wind	Max Gusts
9/5/2019 9:00 AM CDT	ENE	33 mph - 46 mph	53 mph	68 mph
9/5/2019 10:00 AM CDT	ENE	35 mph - 48 mph	56 mph	71 mph
9/5/2019 11:00 AM CDT	ENE	38 mph - 51 mph	59 mph	74 mph
9/5/2019 12:00 PM CDT	ENE	40 mph - 54 mph	62 mph	77 mph
9/5/2019 1:00 PM CDT	NE	42 mph - 55 mph	65 mph	80 mph
9/5/2019 2:00 PM CDT	NE	43 mph - 57 mph	66 mph	81 mph
9/5/2019 3:00 PM CDT	NE	43 mph - 57 mph	67 mph	82 mph
9/5/2019 4:00 PM CDT	NNE	43 mph - 57 mph	66 mph	81 mph
9/5/2019 5:00 PM CDT	NNE	43 mph - 57 mph	66 mph	81 mph
9/5/2019 6:00 PM CDT	NNE	42 mph - 55 mph	65 mph	80 mph
9/5/2019 7:00 PM CDT	N	39 mph - 53 mph	62 mph	77 mph
9/5/2019 8:00 PM CDT	N	36 mph - 50 mph	57 mph	72 mph
9/5/2019 9:00 PM CDT	NNW	33 mph - 47 mph	54 mph	69 mph
9/5/2019 10:00 PM CDT	NNW	29 mph - 43 mph	48 mph	58 mph
9/5/2019 11:00 PM CDT	NNW	25 mph - 39 mph	44 mph	54 mph
9/6/2019 12:00 AM CDT	NNW	23 mph - 37 mph	41 mph	51 mph
9/6/2019 1:00 AM CDT	NNW	19 mph - 32 mph	35 mph	45 mph
9/6/2019 2:00 AM CDT	NNW	16 mph - 29 mph	31 mph	41 mph
9/6/2019 3:00 AM CDT	NNW	13 mph - 26 mph	27 mph	37 mph

Expected First Onset and Duration of Sustained Winds

Wind	ETA	Duration	ETD
25 mph	9/5/2019 9:00 AM CDT	0 days, 18 hours and 24 minutes	9/6/2019 3:24 AM CDT
39 mph	9/5/2019 9:00 AM CDT	0 days, 15 hours and 14 minutes	9/6/2019 12:14 AM CDT
58 mph	9/5/2019 10:47 AM CDT	0 days, 9 hours and 12 minutes	9/5/2019 8:00 PM CDT
Max	9/5/2019 3:00 PM CDT	-	-

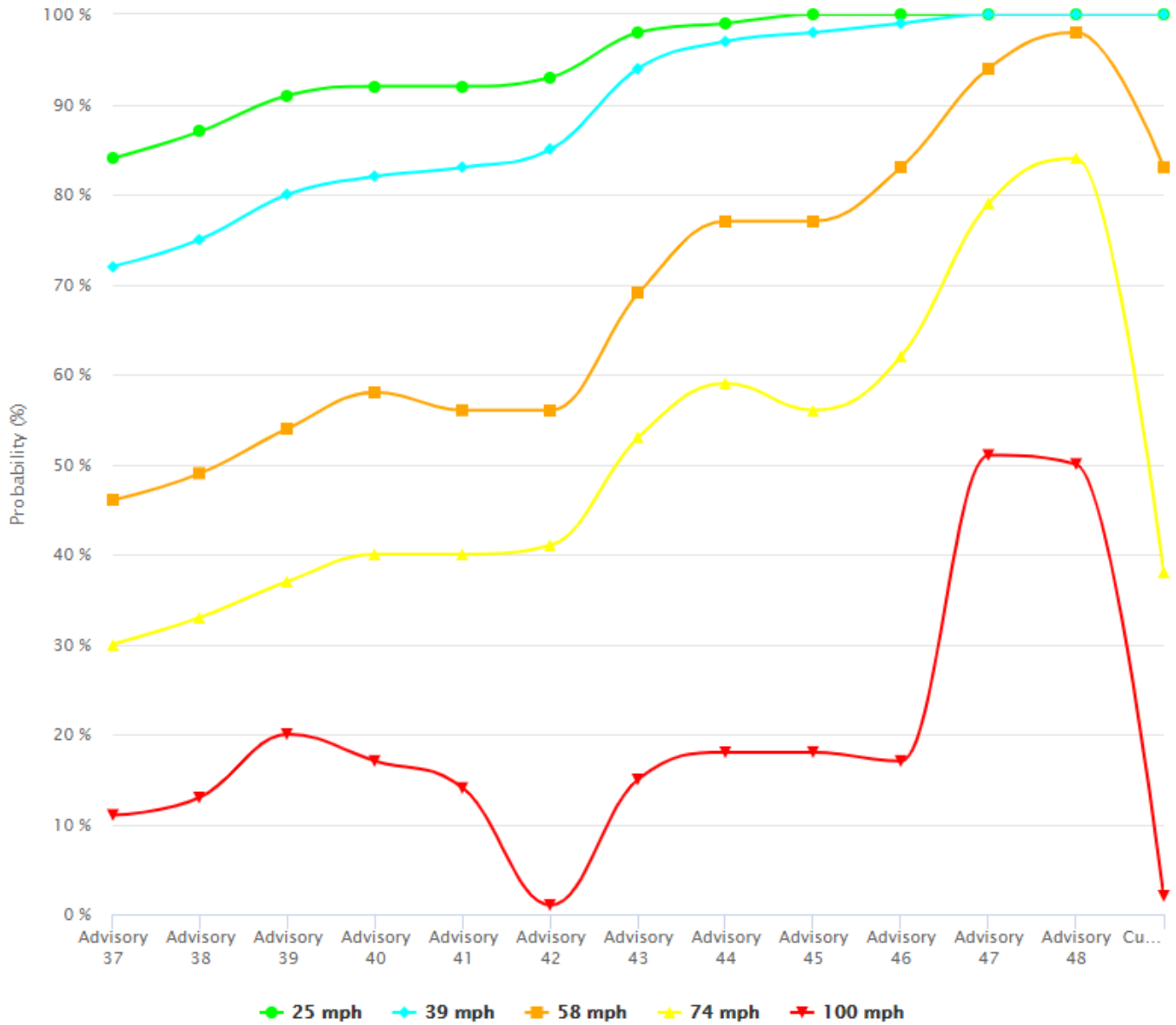
Closest Approach of Center

9/5/2019 4:40 PM CDT -- 55 miles at Azimuth 121 degrees (ESE)

Current Storm Distance and Direction

Distance	Direction
94 miles	Azimuth 179 degrees(SE)

[Wind Profile](#)
[Probability of Wind Impact](#)
[Site Summary](#)
[Worst Case Scenario](#)



Advisory	Valid	25 mph	39 mph	58 mph	74 mph	100 mph
49	9/5/2019 9:00 AM CDT	100%	100%	83%	38%	2%
48	9/5/2019 3:00 AM CDT	100%	100%	98%	84%	50%
47	9/4/2019 9:00 PM CDT	100%	100%	94%	79%	51%
46	9/4/2019 3:00 PM CDT	100%	99%	83%	62%	17%
45	9/4/2019 9:00 AM CDT	100%	98%	77%	56%	18%
44	9/4/2019 3:00 AM CDT	99%	97%	77%	59%	18%
43	9/3/2019 9:00 PM CDT	98%	94%	69%	53%	15%
42	9/3/2019 3:00 PM CDT	93%	85%	56%	41%	1%
41	9/3/2019 9:00 AM CDT	92%	83%	56%	40%	14%
40	9/3/2019 3:00 AM CDT	92%	82%	58%	40%	17%
39	9/2/2019 9:00 PM CDT	91%	80%	54%	37%	20%
38	9/2/2019 3:00 PM CDT	87%	75%	49%	33%	13%
37	9/2/2019 9:00 AM CDT	84%	72%	46%	30%	11%

Wind Profile	Probability of Wind Impact	Site Summary	Worst Case Scenario
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Storm Summary Information

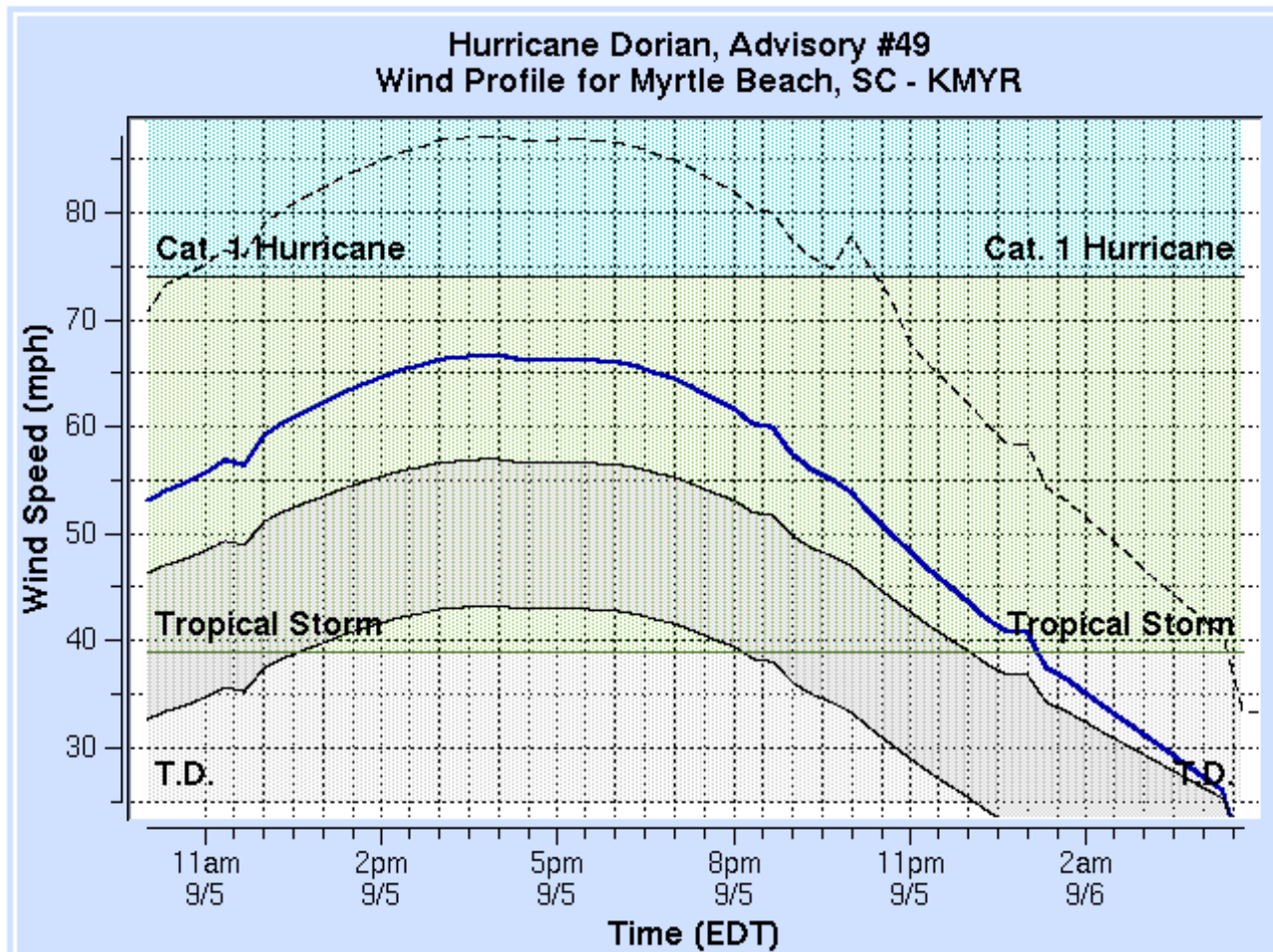
	Max Sustained Winds	Classification	HSI (size/intensity)
Current	105 mph	Category 2	24 (15/9)
Max Forecast	105 mph	Category 2	25 (17/8)

Timeline Tools - Critical Values

58 mph Probability of Wind Impact	83%	↓ -15%
Worst Case Scenario ETA 39 mph Winds	0 hours remaining	9/5/2019 9:00 AM CDT
Forecast ETA 39 mph Winds	0 hours remaining	9/5/2019 9:00 AM CDT

Additional Data for All Wind Fields

Wind Field	Forecast ETA		Worst-Case ETA		Probability of Wind Impact	
	Hours Remaining	ETA	Hours Remaining	ETA	Value	Trend
25 mph	N/A	9/5/2019 9:00 AM CDT	N/A	9/5/2019 9:00 AM CDT	100%	↔ 0%
39 mph	N/A	9/5/2019 9:00 AM CDT	N/A	9/5/2019 9:00 AM CDT	100%	↔ 0%
58 mph	2	9/5/2019 10:47 AM CDT	N/A	9/5/2019 9:00 AM CDT	83%	↓ -15%
74 mph	N/A	N/A	1	9/5/2019 10:55 AM CDT	38%	↓ -46%
100 mph	N/A	N/A	4	9/5/2019 1:43 PM CDT	2%	↓ -48%



**Hurricane Dorian Advisory #49 -- Probability of Wind Impact Trend
for: Myrtle Beach, SC - KMYR (all times CDT)**

