

Hurricane Irene Track Data

Date	Time (Z*)	Latitude (N)	Longitude (W)	Maximum sustained (1 minute) surface (10m) windspeed in knots*	Pressure (Central surface pressure of storm in mb (if available)).
8/21/11	0:00	15.0	59.0	45	1006
8/21/11	6:00	16.0	60.6	45	1006
8/21/11	12:00	16.8	62.2	45	1005
8/21/11	18:00	17.5	63.7	50	999
8/22/11	0:00	17.9	65.0	60	993
8/22/11	6:00	18.2	65.9	65	990
8/22/11	12:00	18.9	67.0	70	989
8/22/11	18:00	19.3	68.0	75	988
8/23/11	0:00	19.7	68.8	80	981
8/23/11	6:00	20.1	69.7	80	978
8/23/11	12:00	20.4	70.6	80	978
8/23/11	18:00	20.7	71.2	80	977
8/24/11	0:00	21.0	71.9	80	969
8/24/11	6:00	21.3	72.5	95	965
8/24/11	12:00	21.9	73.3	105	957
8/24/11	18:00	22.7	74.3	100	954
8/25/11	0:00	23.5	75.1	95	952
8/25/11	6:00	24.1	75.9	95	950
8/25/11	12:00	25.4	76.6	90	950
8/25/11	18:00	26.5	77.2	90	950
8/26/11	0:00	27.7	77.3	90	946
8/26/11	6:00	28.8	77.3	90	942
8/26/11	12:00	30.0	77.4	85	947
8/26/11	18:00	31.1	77.5	80	950
8/27/11	0:00	32.1	77.1	75	952
8/27/11	6:00	33.4	76.8	75	952
8/27/11	12:00	34.7	76.6	75	952
8/27/11	18:00	35.5	76.3	65	950
8/28/11	0:00	36.7	75.7	65	951
8/28/11	6:00	38.1	75.0	65	958
8/28/11	12:00	40.3	74.1	55	963
8/28/11	18:00	42.5	73.1	50	970
8/29/11	0:00	44.2	72.1	45	979
8/29/11	6:00	46.5	69.5	40	983
8/29/11	12:00	49.1	66.7	40	985
8/29/11	18:00	51.3	63.8	40	987
8/30/11	0:00	53.0	60.0	40	991
8/30/11	6:00	NA	NA	NA	NA
8/30/11	12:00	NA	NA	NA	NA
8/30/11	18:00	NA	NA	NA	NA

Saffir-Simpson Hurricane Scale	
Category	Wind speed
	mph (km/h) (kn)
Five	≥ 157 (≥ 252) (≥ 137)
Four	130–156 (209–251) (113–136)
Three	111–129 (178–208) (96–112)
Two	96–110 (154–177) (83–95)
One	74–95 (119–153) (64–82)
Additional classifications	
Tropical storm	39–73 (63–118) (35–63)
Tropical depression	0–38 (0–62) (0–34)

These data come from the "Best Hurricane Track Data (HURDAT)"

<http://www.nhc.noaa.gov/pastall.shtml#hurdat> (accessed June 17, 2012)
 (for Irene, Students can check their work here: <http://www.nhc.noaa.gov/tracks/2011atl.jpg>)

S-S scale from wikipedia, accessed 07-06-12
 [http://en.wikipedia.org/wiki/Tropical_cyclone_scales]

*Notes: "Z" is short for Zulu time and is the same as Greenwich mean time (GMT).

A knot is 1 nautical mile per hour. The conversion from knots to mph is ~ 1 knot = 1.15 mph and the conversion fro knots to kilometers per hour is approximately 1 knot =1.85 km/hr