

Field Survey of Storm Surge due to Hurricane Sandy in New York

Nov. 9, 2012 - Nov. 12, 2012

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No.	Location	Latitude	Longitude	Surge Height (corrected) (m)	Surge Depth (m)	Distance (m)	Identification Marks	Surge Height (measured) (m)	Measured Time	Tide Level at Measured Time (m)	Surge Arrival Time	Tide Level at Surge Arrival Time (m)
1	South Street Seaport	N 40°42.343'	W 74°00.186'	2.65	1.14	45	Mudline (inside)	3.92	2012/11/9 9:49	-0.639	2012/10/29 21:24	0.635
2	Fulton Street	N 40°42.373'	W 74°00.200'	2.59	1.99	100	Mudline (outside)	3.86	2012/11/9 9:49	-0.639	2012/10/29 21:24	0.635
3	Fulton Street	N 40°42.396'	W 74°00.216'	2.82	1.89	150	Mudline (outside)	4.09	2012/11/9 9:49	-0.639	2012/10/29 21:24	0.635
4	Fulton Street	N 40°42.403'	W 74°00.204'	2.69	1.72	150	Mudline (outside)	3.96	2012/11/9 9:49	-0.639	2012/10/29 21:24	0.635
5	Fulton Street	N 40°42.415'	W 74°00.232'	2.96	1.57	185	Mudline (inside)	4.23	2012/11/9 9:49	-0.639	2012/10/29 21:24	0.635
6	Fulton Street	N 40°42.432'	W 74°00.225'	2.87	1.21	210	Mudline (inside)	4.14	2012/11/9 9:49	-0.639	2012/10/29 21:24	0.635
7	Fulton Street	N 40°42.456'	W 74°00.262'	2.61	0.59	275	Mudline (inside)	3.88	2012/11/9 9:49	-0.639	2012/10/29 21:24	0.635
8	Pier 11	N 40°42.197'	W 74°00.381'	2.62	1.26	<20	Mudline (inside)	3.81	2012/11/9 8:24	-0.551	2012/10/29 21:24	0.635
9	Wall Street	N 40°42.287'	W 74°00.392'	2.51	1.35	105	Mudline (inside)	2.81	2012/11/9 13:40	0.338	2012/10/29 21:24	0.635
10	Wall Street	N 40°42.323'	W 74°00.453'	2.68	0.44	210	Mudline (inside)	2.98	2012/11/9 13:40	0.338	2012/10/29 21:24	0.635
11	New Dorp Beach (Staten Isl.)	N 40°33.987'	W 74°06.112'	-	0.76	650	Mudline (inside)	-	-	-	-	-
12	New Dorp Beach (Staten Isl.)	N 40°33.727'	W 74°05.842'	4.03	2.22	55	Drift on a tree	4.79	2012/11/10 13:21	-0.127	2012/10/29 21:24	0.635
13	New Dorp Beach (Staten Isl.)	N 40°33.862'	W 74°05.682'	3.44	1.88	115	Mudline (inside)	4.01	2012/11/10 13:48	0.067	2012/10/29 21:24	0.635
14	Wolles Pond Park (Staten Isl.)	N 40°30.764'	W 74°11.572'	4.22	2.55	35	Drift on a tree	4.23	2012/11/10 16:05	0.622	2012/10/29 21:24	0.635
15	East River side (E 23rd St)	N 40°44.120'	W 73°58.469'	2.57	1.26	<20	Mudline (inside)	3.84	2012/11/11 10:33	-0.637	2012/10/29 21:24	0.635
16	East River side (E 25th St)	N 40°44.206'	W 73°58.453'	-	1.24	45	Mudline (outside)	-	-	-	-	-
17	East River side (E 30th St)	N 40°44.416'	W 73°58.346'	-	1.16	<20	Mudline (outside)	-	-	-	-	-
18	Substation	N 40°43.742'	W 73°58.515'	-	1.32	320	Mudline (outside)	-	-	-	-	-
19	Substation	N 40°43.604'	W 73°58.419'	-	0.96	190	Mudline (outside)	-	-	-	-	-
20	Hudson River side (St Clair Pl)	N 40°49.071'	W 73°57.676'	-	-	70	eyewitness ("reached here")	-	-	-	-	-

1) Tide Level: observed water level relative to MSL in Battery (southern end of Manhattan)

data was obtained from NOAA Tides & Currents: <http://tidesandcurrents.noaa.gov/qco.shtml?location=8518750>

* Tide Level at Measured Time: verified observed water level data

* Tide Level at Surge Arrival Time: predicted water level data

2) Surge Arrival Time: the time when the heighest water level was recorded in Battery

3) Distance: the distance from the coast line roughly estimated by using Google Earth