

March 14, 2023

Ms. Jessica Fentress and Mr. Niles Czyzcki
Volusia County Coastal Division
515 S. Atlantic Ave
Daytona Beach, Florida 32118

Re: Volusia County Beach Monitoring- 2022 Hurricane Season

Ms. Fentress and Mr. Czyzcki:

This letter report presents the results of our beach assessment following the 2022 hurricane season for the Volusia County shoreline. Hurricane Ian impacted the project area on September 28-30, 2022, as it made its way east across Florida leaving the Volusia County shoreline vulnerable. After making landfall in the Bahamas, Hurricane Nicole traveled west and made landfall on the Florida Peninsula near Vero Beach on November 10, 2022; the storm began to impact the county coastline around November 8, 2022. The impacts from Hurricane Nicole were catastrophic throughout much of the county. Our assessment of the beach post-event data includes volume and shoreline changes for the following comparison periods:

- post-Hurricane Nicole (November 2022) data versus 2019 baseline data (July 2019)
- post-Hurricane Nicole (November 2022) data versus summer 2022 data (August 2022)

The U.S. Army Corps of Engineers (USACE) collected the post-event LiDAR data between 11/21/2022 and 11/29/2022, approximately 2-3 weeks following Hurricane Nicole, and it was released to the public on 2/27/2023. Notably, the seaward extent of the data is limited due to the LiDAR's penetration below the water surface; this averages -6.4 ft NAVD88 across the examined profiles. Appendix A presents the range and elevation associated with the post-event data extent and Appendix C presents the profile plots of the data. To avoid elevation influence from nearby seawalls captured in the digital elevation model (DEM), the team shifted profiles at R-177 and R-181 slightly south; the shifted profiles better represent the post-event beach conditions.

It should be noted that the profiles included in this analysis do not capture the full extent of damage following Hurricanes Ian and Nicole. When the available data is observed on a lot-by-lot basis numerous failed seawalls and extensive erosion is prevalent, this is often not captured by the adjacent monuments. Additionally, the team estimates that at approximately 15% of the profiles, erosion extends further landward than the 2019 and 2022 data allow for analysis as depicted by R-73 below in Figure 1.

Notably, all averages reported herein utilize a weighted average procedure which incorporates the alongshore distance, or controlling distance, between monuments to establish a comparative basis between the alongshore segments of beach. In general, a monument's controlling distance extends between the halfway points of adjacent monuments—exceptions to this rule occur at the north and south ends of each community and adjacent to Ponce de Leon Inlet.

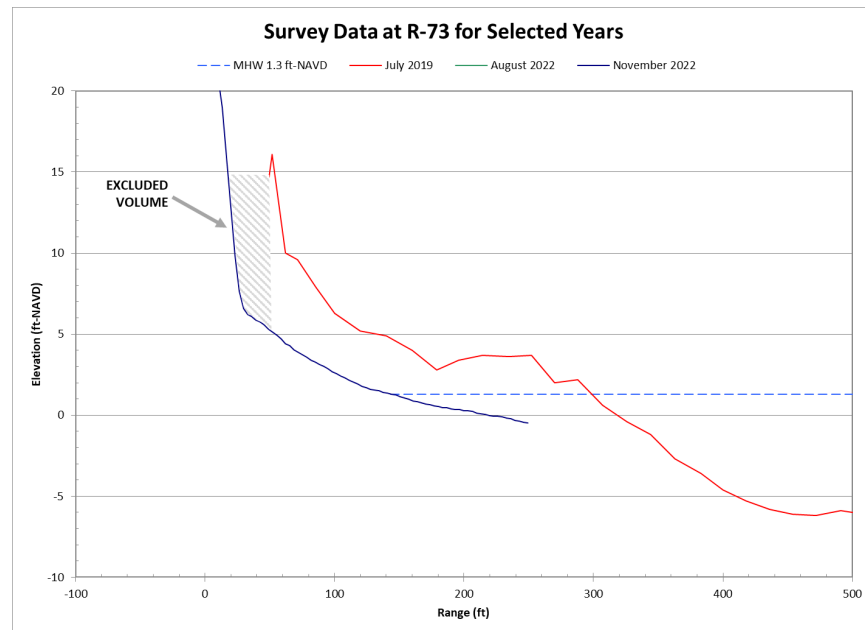


Figure 1 Survey Data at R-73 Showing Data Shortcomings Which Limit the Volume Analysis

MHW Shoreline Change Results

Table 1, located at the end of this memo, contains the average MHW position changes for the above-mentioned surveys based on the county's monitoring reaches. The results indicate the following MHW shoreline position changes:

- The comparison of the average July 2019 MHW shoreline position and post-Nicole MHW shoreline position indicates significant shoreline retreat occurred throughout Volusia County, with the largest magnitudes focused in the central region of the county (from Daytona Beach and Daytona Beach Shores to Ponce Inlet). Moderate shoreline retreat occurred in the areas at the north and south ends of the county. Since 2019, Daytona Beach and Daytona Beach Shores experienced the greatest shoreline retreat averaging 156 ft in this segment. The smallest retreat, averaging 30 ft, occurs in Silver Sands and Bethune Beach. Overall, the MHW shoreline position receded an average of 94 ft across the county between July 2019 and November 2022.
- Similar to the July 2019 comparison, the August 2022 comparison to the post-event data reveals the shoreline position receded within all communities throughout the county. The most substantial retreat again occurred in the central portion of the county (Daytona Beach and Daytona Beach Shores through New Smyrna Beach); the segments to the north and south still experienced moderate to significant shoreline retreat. The largest average retreat occurred in Wilbur-by-the-Sea (175 ft) while the smallest average retreat occurred in North Peninsula (36 ft). Overall, as a result of Hurricanes Ian and Nicole, the Volusia County shoreline receded an average of 100 ft.

Volume Change Results

The volume analysis isolates cross-shore volumes into the following compartments: dune to MHW and below MHW to the profile extent (Appendix B). It should be noted that the profile extent varies throughout the project area making comparison of volumes below MHW complex. Table 2 contains the

average and total beach volume change for the above-mentioned cross-shore compartments and datasets by community. The results indicate the following volume changes:

- The July 2019 to November 2022 volume change analysis documents the countywide beach volume changes over the past three years. As a whole, the County experienced a net erosion of ~4.2 Mcy (-21.9 cy/ft); above MHW the beach eroded ~2.6Mcy (-13.5 cy/ft) while the area between MHW and the profile extent eroded ~1.6 Mcy (-8.4 cy/ft).

Taking a closer look at the Volusia County communities reveals Wilbur-by-the-Sea and Ponce Inlet experienced the most significant average erosion of 45.8 cy/ft (-263,900 cy) and 41.6 cy/ft (-795,500 cy) respectively. Notably, the data extent in these communities is larger than adjacent so additional volume is accounted for in the nearshore. Communities to the north and south also experienced significant net erosion, with the smallest average loss equating to 11.4 cy/ft (-216,900 cy) in Ormond Beach.

Above MHW, the greatest erosion occurred in the community of Ponce Inlet, averaging 31.4 cy/ft (-600,400 cy). In this area the maximum erosion recorded at an individual profile occurred with an estimated loss of 42,300 cy (-47.5 cy/ft) at T-147 where the large frontal dune has eroded significantly since 2019. Of the 209 profiles analyzed, 12 profiles experienced accretion above MHW, seven of which are grouped together in southern New Smyrna Beach and Bethune Beach where in 2019 there was minimal beach and since then a small berm has naturally formed.

- August 2022 to November 2022 volume change analysis indicates ~6.7 Mcy of erosion (-34.1 cy/ft) across the county. Similar magnitudes of sediment loss occurred in the areas above and below MHW, averaging -15.7 cy/ft (-3.1 Mcy) and -18.4 cy/ft (-3.6 Mcy), respectively.

Looking at the total volume on a community basis reveals that the most significant volume losses occurred south of Wilbur-by-the-Sea and throughout the southern portion of the county. Volume changes throughout the County ranged from -58.8 cy/ft (-1.1 Mcy) at Ponce Inlet to -14.9 cy/ft (-283 kcy) in Ormond Beach. Again, the data limits the ability to compare total volumes throughout the community due to varying coverage of data below MHW.

Above MHW, the beach eroded ~3.1 Mcy or ~15.7 cy/ft. Moderate volume losses occurred in the communities of North Peninsula, Ormond-by-the-Sea, and Silver Sands/Bethune Beach, while the central communities experienced substantial volume losses above MHW. The communities of Wilbur-by-the-Sea, Ponce Inlet, and New Smyrna Beach each eroded greater than 20 cy/ft above MHW.

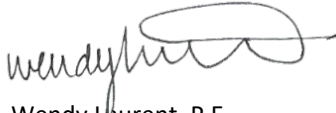
In summary, the 2022 hurricane season and the combined effects of Hurricanes Ian and Nicole led to catastrophic shoreline recession and beach erosion throughout Volusia County. Although the LiDAR data coverage limits an analysis of the complete profile, there is a calculated volume loss of ~6.67 Mcy since August 2022. The combined impacts of Hurricanes Ian and Nicole have greatly affected the Volusia County shoreline with an average erosion of 34.1 cy/ft and an average shoreline retreat of 100 ft since August 2022.

The profile plots in Appendix C depict that in areas where a dune is present, significant erosion and scarping occurred; meanwhile where natural dunes are not present, aerial imagery shows multiple seawall failures throughout the County. Due to the limited extent of the post-event LiDAR data, it is difficult to determine how far offshore the sediment moved and if the beach will have the opportunity for

some natural recovery following the 2022 storm season. The extreme losses observed do not indicate the beach will fully recover without recovery actions and the effects of natural recovery will be minimal.

If you have any questions or require additional information, please do not hesitate to contact me at wlaurent@taylorengeering.com.

Regards,

A handwritten signature in cursive script, appearing to read 'Wendy Laurent', with a large, stylized loop at the end.

Wendy Laurent, P.E.
Coastal Engineer

Table 1 Average MHW Shoreline Position Change by Community

Community	FDEP Reference Monuments	MHW Elevation Range (ft NAVD88)	Average MHW Shoreline <u>Position Change (ft)</u> July 2019 November 2022	Average MHW Shoreline <u>Position Change (ft)</u> August 2022 November 2022
North Peninsula (R-0 to R-16)	R-0 to R-16	+1.4	-45	-36
Ormond-By-The-Sea (R-16 to R-47)	R-16 to R-47	+1.4 to +1.3	-49	-44
Ormond Beach (R-47 to R-67)	R-47 to T-67	+1.3	-71	-70
Daytona Beach and Daytona Beach Shores (R-67 to R-122)	T-67 to R-122	+1.3 to +1.2	-156	-143
Wilbur-By-The-Sea (R-122 to R-128)	R-122 to R-128	+1.2	-148	-175
Ponce Inlet (R-128 to R-148)	R-128 to R-148	+1.2	-134	-144
New Smyrna Beach (R-149 to R-185)	R-149 to R-185	+1.2 to +1.1	-79	-107
Silver Sands and Bethune Beach (R-185 to R-208)	R-185 to T-208	+1.1	-30	-70
Volusia County Study Area (R-0 to R-208)	R-0 to T-208	+1.4 to +1.1	-94	-100

Table 2 Average and Total Volume Change by Community (cy/ft and cy)

Monitoring Area	Volume Compartment	July 2019 <u>November 2022</u> Cubic Yard/Cubic Feet	July 2019 <u>November 2022</u> Cubic Yard	August 2022 <u>November 2022</u> Cubic Yard/Cubic Feet	August 2022 <u>November 2022</u> Cubic Yard
North Peninsula (R-0 to R-16)	Dune to MHW	-10.5	-155,400	-9.5	-140,500
North Peninsula (R-0 to R-16)	MHW to profile extent	-10.3	-153,500	-22.4	-332,500
North Peninsula (R-0 to R-16)	Total	-20.8	-308,900	-31.9	-473,000
Ormond-By-The-Sea (R-16 to R-47)	Dune to MHW	-7.5	-217,300	-9.3	-269,800
Ormond-By-The-Sea (R-16 to R-47)	MHW to profile extent	-11.7	-340,200	-16.7	-484,600
Ormond-By-The-Sea (R-16 to R-47)	Total	-19.2	-557,500	-26.0	-754,400
Ormond Beach (R-47 to R-67)	Dune to MHW	-10.1	-192,600	-13.5	-257,000
Ormond Beach (R-47 to R-67)	MHW to profile extent	-1.3	-24,400	-1.4	-26,300
Ormond Beach (R-47 to R-67)	Total	-11.4	-216,900	-14.9	-283,400
Daytona Beach and Daytona Beach Shores (R-67 to R-122)	Dune to MHW	-15.0	-778,100	-15.9	-827,400
Daytona Beach and Daytona Beach Shores (R-67 to R-122)	MHW to profile extent	-6.4	-331,700	-8.8	-455,400
Daytona Beach and Daytona Beach Shores (R-67 to R-122)	Total	-21.3	-1,109,800	-24.7	-1,282,900
Wilbur-By-The-Sea (R-122 to R-128)	Dune to MHW	-20.2	-116,100	-21.4	-123,200
Wilbur-By-The-Sea (R-122 to R-128)	MHW to profile extent	-25.7	-147,800	-32.8	-188,800

Monitoring Area	Volume Compartment	July 2019 <u>November 2022</u> Cubic Yard/Cubic Feet	July 2019 <u>November 2022</u> Cubic Yard	August 2022 <u>November 2022</u> Cubic Yard/Cubic Feet	August 2022 <u>November 2022</u> Cubic Yard
Wilbur-By-The-Sea (R-122 to R-128)	Total	-45.8	-263,900	-54.2	-312,000
Ponce Inlet (R-128 to R-148)	Dune to MHW	-31.4	-600,400	-28.9	-553,500
Ponce Inlet (R-128 to R-148)	MHW to profile extent	-10.2	-194,800	-29.9	-571,700
Ponce Inlet (R-128 to R-148)	Total	-41.6	-795,500	-58.8	-1,125,600
New Smyrna Beach (R-149 to R-185)	Dune to MHW	-15.1	-512,600	-20.7	-701,300
New Smyrna Beach (R-149 to R-185)	MHW to profile extent	-5.9	-200,200	-25.7	-870,600
New Smyrna Beach (R-149 to R-185)	Total	-21.0	-712,800	-46.4	-1,571,900
Silver Sands and Bethune Beach (R-185 to R-208)	Dune to MHW	-2.7	-59,000	-9.1	-197,400
Silver Sands and Bethune Beach (R-185 to R-208)	MHW to profile extent	-11.8	-255,900	-29.8	-645,200
Silver Sands and Bethune Beach (R-185 to R-208)	Total	-14.5	-315,000	-38.9	-842,600
Volusia County Study Area (R-0 to R-208)	Dune to MHW	-13.5	-2,631,400	-15.7	-3,070,300
Volusia County Study Area (R-0 to R-208)	MHW to profile extent	-8.4	-1,648,400	-18.3	-3,575,100
Volusia County Study Area (R-0 to R-208)	Total	-21.9	-4,280,200	-34.0	-6,645,700

**profile extent varies by monument; total and below MHW volumes should be critically analyzed

Appendix A

LiDAR Profile Extent

Table A. 1 Profile Extent of 2022 Post-Nicole LiDAR Data

Reference Monument	Range Feet	Elevation Feet NAVD88	Reference Monument	Range Feet	Elevation Feet NAVD88
R-0	409.8	-7.1	R-44	173.8	-0.2
R-1	390.1	-6.0	R-45	141.0	0.4
R-2	350.8	-5.6	R-46	242.6	0.5
R-3	236.1	-7.6	R-47	232.8	0.0
R-4	413.1	-7.0	R-48	177.0	-0.3
R-5	472.1	-8.5	R-49	209.8	-0.1
R-6	462.3	-7.9	R-50	154.1	0.0
R-7	396.7	-6.5	R-51	170.5	0.0
R-8	403.3	-6.9	R-52	147.5	0.0
R-9	409.8	-6.2	T-53	147.5	0.2
R-10	429.5	-8.1	R-54	131.1	0.2
R-11	491.8	-7.4	R-55	147.5	0.1
R-12	449.2	-5.8	R-56	200.0	-0.4
R-13	403.3	-5.5	R-57	127.9	-0.1
R-14	393.4	-6.4	R-58	157.4	0.2
R-15	491.8	-8.5	T-59	183.6	-0.1
R-16	491.8	-6.9	R-60	157.4	-0.1
R-17	436.0	-8.3	R-61	170.5	0.0
R-18	586.8	-8.8	R-62	206.5	-0.8
R-19	386.9	-7.7	R-63	229.5	-0.4
R-20	498.3	-6.6	R-64	190.2	-0.4
R-21	462.3	-6.6	T-65	163.9	-0.4
R-22	442.6	-6.2	T-66	186.9	-0.5
R-23	462.3	-7.4	R-67	206.5	-0.4
R-24	409.8	-8.1	R-68	177.0	-0.4
R-25	439.3	-7.4	T-69	68.8	0.2
R-26	573.7	-8.8	R-70	193.4	-0.7
R-27	465.5	-7.8	R-71	108.2	0.0
R-28	609.8	-6.9	R-72	219.7	-0.3
R-29	432.8	-8.4	R-73	249.2	-0.5
R-30	347.5	-8.3	R-74	245.9	0.0
R-31	485.2	-7.0	R-75	177.0	-0.5
R-32	508.2	-7.8	R-76	131.1	-0.1
R-33	337.7	-6.6	R-77	111.5	0.0
R-34	426.2	-9.0	T-78	196.7	-0.3
R-35	455.7	-6.5	R-79	216.4	-0.2
T-36	390.1	-7.6	R-80	121.3	0.0
T-37	360.6	-5.4	T-81	147.5	-0.2
R-38	150.8	-0.6	R-82	88.5	-0.1
T-39	180.3	-0.9	R-83	147.5	-0.2
R-40	91.8	0.0	R-84	226.2	-0.7

Volusia County Beach Monitoring- 2022 Hurricane Season
Appendix A

Reference Monument	Range Feet	Elevation Feet NAVD88	Reference Monument	Range Feet	Elevation Feet NAVD88
R-41	157.4	0.3	R-85	259.0	-0.6
R-42	177.0	-0.3	R-86	157.4	-0.1
R-43	190.2	0.0	R-87	239.3	0.1
T-88	124.6	-0.1	R-134	1,098.3	-13.5
T-89	144.3	-0.5	R-135	1,075.3	-14.0
R-90	137.7	-0.4	R-136	1,062.2	-13.1
R-91	150.8	-0.4	R-137	1,124.5	-15.1
T-92	154.1	0.0	R-138	1,219.6	-13.9
R-93	147.5	0.0	R-139	1,252.4	-15.3
R-94	144.3	0.1	T-140	1,275.3	-15.2
T-95	95.1	0.4	T-141	1,252.4	-13.7
T-96	131.1	0.0	R-142	1,104.9	-15.8
R-97	101.6	-0.3	R-143	1,036.0	-13.8
T-98	131.1	-0.7	R-144	1,137.6	-15.0
T-99	98.4	0.3	R-145	1,078.6	-13.4
R-100	114.7	-0.3	R-146	1,121.2	-13.0
R-101	124.6	-0.3	T-147	1,206.5	-13.0
T-102	137.7	-0.9	R-148	1,173.7	-11.3
T-103	144.3	-0.8	T-149	1,931.0	-10.6
R-104	236.1	-0.8	R-150	1,422.9	-9.5
R-105	190.2	-0.5	R-151	1,924.5	-9.9
R-106	255.7	-0.7	R-152	1,885.1	-11.9
R-107	65.6	-0.2	R-153	1,288.4	-11.3
R-108	72.1	-0.2	R-154	1,334.3	-11.3
T-109	111.5	-0.4	R-155	1,416.3	-11.5
R-110	337.7	-3.9	R-156	1,399.9	-11.8
R-111	344.2	-4.2	R-157	1,449.1	-11.9
R-112	334.4	-4.2	R-158	1,419.6	-12.8
T-113	859.0	-10.0	R-159	1,472.0	-13.4
T-114	842.6	-9.1	R-160	1,288.4	-12.6
T-115	855.7	-8.7	R-161	1,383.5	-12.8
R-116	688.5	-10.3	R-162	963.9	-11.9
R-117	767.2	-8.9	R-163	1,065.5	-12.7
T-118	783.6	-8.6	T-164	937.6	-12.2
R-119	718.0	-8.1	R-165	862.2	-10.3
R-120	481.9	-7.4	R-166	868.8	-9.5
R-121	478.7	-7.6	R-167	852.4	-9.6
R-122	731.1	-8.3	R-168	855.7	-9.3
T-123	803.2	-8.6	T-169	980.3	-10.7
R-124	622.9	-10.9	R-170	924.5	-9.6
R-125	711.4	-10.2	R-171	1,029.4	-10.9
R-126	865.5	-10.0	R-172	790.1	-7.9
T-127	881.9	-10.2	R-173	901.6	-9.4

Volusia County Beach Monitoring- 2022 Hurricane Season
Appendix A

Reference Monument	Range Feet	Elevation Feet NAVD88	Reference Monument	Range Feet	Elevation Feet NAVD88
R-128	895.0	-10.9	R-174	967.2	-10.6
R-129	1,029.4	-15.1	R-175	888.5	-8.9
R-130	990.1	-14.3	R-176	872.1	-10.0
R-131	1,068.8	-14.1	T-177	888.9	-9.8
R-132	1,013.1	-14.5	R-178	862.2	-10.2
R-133	1,108.1	-15.1	R-179	944.2	-10.7
R-180	977.0	-10.5	R-195	875.4	-10.7
R-181	837.3	-10.4	T-196	773.7	-9.8
R-182	940.9	-10.1	T-197	622.9	-8.6
R-183	993.4	-11.8	R-198	481.9	-9.7
R-184	875.4	-10.7	R-199	393.4	-8.5
R-185	1,003.2	-8.2	R-200	396.7	-7.6
R-186	980.3	-10.9	R-201	639.3	-9.7
R-187	957.3	-10.0	R-202	177.0	-6.4
T-188	980.3	-7.8	R-203	163.9	-5.3
R-189	740.9	-10.4	R-204	468.8	-6.9
T-190	1,081.9	-8.8	T-205	245.9	-5.6
R-191	777.0	-8.4	R-206	265.6	-7.5
R-192	780.3	-9.5	R-207	773.7	-11.1
R-193	780.3	-9.5	T-208	685.2	-9.6
T-194	914.7	-10.3			

Appendix B

MHW Shoreline Position and Volume Change by Monument

Table B. 1 MHW Shoreline Positions

Community	FDEP Reference Monument	MHW Contour Feet NAVD88	MHW Shoreline Position July 2019	MHW Shoreline Position August 2022	MHW Shoreline Position November 2022
North Peninsula	R-0	+1.4	196.2	191.7	152.0
North Peninsula	R-1	+1.4	134.3		118.3
North Peninsula	R-2	+1.4	129.0		109.3
North Peninsula	R-3	+1.4	134.9	112.0	62.1
North Peninsula	R-4	+1.4	137.9		86.8
North Peninsula	R-5	+1.4	151.7		109.0
North Peninsula	R-6	+1.4	145.6	134.3	107.1
North Peninsula	R-7	+1.4	137.0		116.1
North Peninsula	R-8	+1.4	140.0		112.6
North Peninsula	R-9	+1.4	158.7	170.7	103.0
North Peninsula	R-10	+1.4	146.4		91.6
North Peninsula	R-11	+1.4	179.9		99.1
North Peninsula	R-12	+1.4	152.5	143.7	145.5
North Peninsula	R-13	+1.4	166.3		128.8
North Peninsula	R-14	+1.4	185.2		110.7
North Peninsula	R-15	+1.4	189.7	160.5	122.5
North Peninsula	R-16	+1.4	193.1	147.6	
Ormond-By-The-Sea	R-16	+1.4	193.1	147.6	
Ormond-By-The-Sea	R-17	+1.4	189.7		145.0
Ormond-By-The-Sea	R-18	+1.4	190.2	181.5	145.0
Ormond-By-The-Sea	R-19	+1.4	206.6		158.9
Ormond-By-The-Sea	R-20	+1.4	168.8		156.8
Ormond-By-The-Sea	R-21	+1.3	194.0	192.0	147.1
Ormond-By-The-Sea	R-22	+1.3	159.0		117.5

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Appendix B

Community	FDEP Reference Monument	MHW Contour Feet NAVD88	MHW Shoreline <u>Position</u> July 2019	MHW Shoreline <u>Position</u> August 2022	MHW Shoreline <u>Position</u> November 2022
Ormond-By-The-Sea	R-23	+1.3	185.9		114.8
Ormond-By-The-Sea	R-24	+1.3	162.5	175.0	125.2
Ormond-By-The-Sea	R-25	+1.3	160.0		87.4
Ormond-By-The-Sea	R-26	+1.3	140.0		83.1
Ormond-By-The-Sea	R-27	+1.3	129.5	161.0	108.5
Ormond-By-The-Sea	R-28	+1.3	310.6		251.2
Ormond-By-The-Sea	R-29	+1.3	136.9		75.7
Ormond-By-The-Sea	R-30	+1.3	162.1	148.0	83.9
Ormond-By-The-Sea	R-31	+1.3	158.1		112.5
Ormond-By-The-Sea	R-32	+1.3	169.9		92.1
Ormond-By-The-Sea	R-33	+1.3	155.7	144.9	101.2
Ormond-By-The-Sea	R-34	+1.3	177.0		109.7
Ormond-By-The-Sea	R-35	+1.3	153.4		131.2
Ormond-By-The-Sea	T-36	+1.3	166.7	144.8	115.5
Ormond-By-The-Sea	T-37	+1.3	203.4		161.7
Ormond-By-The-Sea	R-38	+1.3	173.9		135.0
Ormond-By-The-Sea	T-39	+1.3	211.3	190.2	161.7
Ormond-By-The-Sea	R-40	+1.3	131.3		75.0
Ormond-By-The-Sea	R-41	+1.3	225.1		147.7
Ormond-By-The-Sea	R-42	+1.3	188.0	187.3	160.6
Ormond-By-The-Sea	R-43	+1.3	203.8		175.1
Ormond-By-The-Sea	R-44	+1.3	201.2		160.2
Ormond-By-The-Sea	R-45	+1.3	190.2	192.0	131.3
Ormond-By-The-Sea	R-46	+1.3	273.4		231.7
Ormond-By-The-Sea	R-47	+1.3	246.2	217.6	
Ormond Beach	R-47	+1.3	246.2	217.6	

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Community	FDEP Reference Monument	MHW Contour Feet NAVD88	MHW Shoreline <u>Position</u> July 2019	MHW Shoreline <u>Position</u> August 2022	MHW Shoreline <u>Position</u> November 2022
Ormond Beach	R-48	+1.3	187.9	200.5	152.1
Ormond Beach	R-49	+1.3	224.5		190.2
Ormond Beach	R-50	+1.3	197.5		133.8
Ormond Beach	R-51	+1.3	210.9	195.0	151.7
Ormond Beach	R-52	+1.3	187.0		130.7
Ormond Beach	T-53	+1.3	183.2		132.1
Ormond Beach	R-54	+1.3	177.1	161.0	110.6
Ormond Beach	R-55	+1.3	188.9		129.5
Ormond Beach	R-56	+1.3	207.3		171.4
Ormond Beach	R-57	+1.3	192.2	190.0	108.2
Ormond Beach	R-58	+1.3	207.5		136.1
Ormond Beach	T-59	+1.3	241.4		159.1
Ormond Beach	R-60	+1.3	205.0	183.1	126.0
Ormond Beach	R-61	+1.3	172.3		143.6
Ormond Beach	R-62	+1.3	206.0		88.6
Ormond Beach	R-63	+1.3	212.2	224.6	123.0
Ormond Beach	R-64	+1.3	182.5		76.6
Ormond Beach	T-65	+1.3	188.5		85.7
Ormond Beach	T-66	+1.3	207.5	192.0	78.4
Ormond Beach	R-67	+1.3	181.5	96.3	
Daytona Beach and Daytona Beach Shores	R-67	+1.3	181.5	96.3	
Daytona Beach and Daytona Beach Shores	R-68	+1.3	204.4		59.8
Daytona Beach and Daytona Beach Shores	T-69	+1.3	196.5	137.2	29.6
Daytona Beach and Daytona Beach Shores	R-70	+1.3	179.0		68.7
Daytona Beach and Daytona Beach Shores	R-71	+1.3	178.5		52.9

Volusia County Beach Monitoring- 2022 Hurricane Season
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Community	FDEP Reference Monument	MHW Contour Feet NAVD88	MHW Shoreline <u>Position</u> July 2019	MHW Shoreline <u>Position</u> August 2022	MHW Shoreline <u>Position</u> November 2022
Daytona Beach and Daytona Beach Shores	R-72	+1.3	175.8	185.0	90.3
Daytona Beach and Daytona Beach Shores	R-73	+1.3	298.7		143.4
Daytona Beach and Daytona Beach Shores	R-74	+1.3	287.6		154.2
Daytona Beach and Daytona Beach Shores	R-75	+1.3	190.0	185.2	73.7
Daytona Beach and Daytona Beach Shores	R-76	+1.3	234.7		67.3
Daytona Beach and Daytona Beach Shores	R-77	+1.3	176.3		48.7
Daytona Beach and Daytona Beach Shores	T-78	+1.3	233.0	186.2	104.9
Daytona Beach and Daytona Beach Shores	R-79	+1.3	225.1		104.1
Daytona Beach and Daytona Beach Shores	R-80	+1.3	216.0		37.0
Daytona Beach and Daytona Beach Shores	T-81	+1.2	206.3	183.7	80.2
Daytona Beach and Daytona Beach Shores	R-82	+1.2	175.4		24.3
Daytona Beach and Daytona Beach Shores	R-83	+1.2	202.2		76.0
Daytona Beach and Daytona Beach Shores	R-84	+1.2	291.2	265.5	121.6
Daytona Beach and Daytona Beach Shores	R-85	+1.2	258.5		167.0
Daytona Beach and Daytona Beach Shores	R-86	+1.2	262.1		95.2
Daytona Beach and Daytona Beach Shores	R-87	+1.2	349.0	312.1	184.9
Daytona Beach and Daytona Beach Shores	T-88	+1.2	233.2		56.7
Daytona Beach and Daytona Beach Shores	T-89	+1.2	204.7		74.5
Daytona Beach and Daytona Beach Shores	R-90	+1.2	262.6	201.8	61.1
Daytona Beach and Daytona Beach Shores	R-91	+1.2	267.9		75.1
Daytona Beach and Daytona Beach Shores	T-92	+1.2	255.6		87.4

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Community	FDEP Reference Monument	MHW Contour Feet NAVD88	MHW Shoreline <u>Position</u> July 2019	MHW Shoreline <u>Position</u> August 2022	MHW Shoreline <u>Position</u> November 2022
Daytona Beach and Daytona Beach Shores	R-93	+1.2	249.0	261.1	85.8
Daytona Beach and Daytona Beach Shores	R-94	+1.2	235.7		87.5
Daytona Beach and Daytona Beach Shores	T-95	+1.2	231.9		59.0
Daytona Beach and Daytona Beach Shores	T-96	+1.2	227.9	190.1	67.1
Daytona Beach and Daytona Beach Shores	R-97	+1.2	200.2		26.4
Daytona Beach and Daytona Beach Shores	T-98	+1.2	202.3		42.9
Daytona Beach and Daytona Beach Shores	T-99	+1.2	219.3	189.5	56.8
Daytona Beach and Daytona Beach Shores	R-100	+1.2	204.0		38.2
Daytona Beach and Daytona Beach Shores	R-101	+1.2	207.1		56.5
Daytona Beach and Daytona Beach Shores	T-102	+1.2	235.7	230.9	52.4
Daytona Beach and Daytona Beach Shores	T-103	+1.2	220.5		45.8
Daytona Beach and Daytona Beach Shores	R-104	+1.2	287.2		124.6
Daytona Beach and Daytona Beach Shores	R-105	+1.2	241.7	248.0	106.7
Daytona Beach and Daytona Beach Shores	R-106	+1.2	327.3		157.3
Daytona Beach and Daytona Beach Shores	R-107	+1.2	205.0		7.1
Daytona Beach and Daytona Beach Shores	R-108	+1.2	214.0	194.6	15.6
Daytona Beach and Daytona Beach Shores	T-109	+1.2	211.0		48.4
Daytona Beach and Daytona Beach Shores	R-110	+1.2	203.3		51.1
Daytona Beach and Daytona Beach Shores	R-111	+1.2	230.5	237.1	36.4
Daytona Beach and Daytona Beach Shores	R-112	+1.2	219.3		31.8
Daytona Beach and Daytona Beach Shores	T-113	+1.2	216.4		48.5

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Community	FDEP Reference Monument	MHW Contour Feet NAVD88	MHW Shoreline <u>Position</u> July 2019	MHW Shoreline <u>Position</u> August 2022	MHW Shoreline <u>Position</u> November 2022
Daytona Beach and Daytona Beach Shores	T-114	+1.2	229.4	240.7	49.9
Daytona Beach and Daytona Beach Shores	T-115	+1.2	252.8		65.4
Daytona Beach and Daytona Beach Shores	R-116	+1.2	234.7		33.5
Daytona Beach and Daytona Beach Shores	R-117	+1.2	241.3	218.8	51.7
Daytona Beach and Daytona Beach Shores	T-118	+1.2	219.1		83.1
Daytona Beach and Daytona Beach Shores	R-119	+1.2	199.8		48.4
Daytona Beach and Daytona Beach Shores	R-120	+1.2	233.0	259.2	71.9
Daytona Beach and Daytona Beach Shores	R-121	+1.2	162.9		75.8
Daytona Beach and Daytona Beach Shores	R-122	+1.2	235.3	64.5	
Wilbur-By-The-Sea	R-122	+1.2	235.3	64.5	
Wilbur-By-The-Sea	T-123	+1.2	194.5	196.9	49.4
Wilbur-By-The-Sea	R-124	+1.2	223.3		74.6
Wilbur-By-The-Sea	R-125	+1.2	194.5	235.7	42.7
Wilbur-By-The-Sea	R-126	+1.2	247.0	290.9	103.5
Wilbur-By-The-Sea	T-127	+1.2	166.4	248.3	57.1
Wilbur-By-The-Sea	R-128	+1.2	236.0	197.5	26.8
Ponce Inlet	R-128	+1.2	236.0	197.5	26.8
Ponce Inlet	R-129	+1.2	265.9	235.8	83.3
Ponce Inlet	R-130	+1.2	245.7	241.7	68.7
Ponce Inlet	R-131	+1.2	290.0	331.2	137.2
Ponce Inlet	R-132	+1.2	256.0	210.1	71.7
Ponce Inlet	R-133	+1.2	289.0	376.5	176.1
Ponce Inlet	R-134	+1.2	348.7	356.8	178.1
Ponce Inlet	R-135	+1.2	380.1	321.7	165.0

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Community	FDEP Reference Monument	MHW Contour Feet NAVD88	MHW Shoreline <u>Position</u> July 2019	MHW Shoreline <u>Position</u> August 2022	MHW Shoreline <u>Position</u> November 2022
Ponce Inlet	R-136	+1.2	297.0	361.8	185.8
Ponce Inlet	R-137	+1.2	303.0	382.0	203.5
Ponce Inlet	R-138	+1.2	436.3	466.4	343.1
Ponce Inlet	R-139	+1.2	506.3	512.7	353.5
Ponce Inlet	T-140	+1.2	507.6	503.1	354.2
Ponce Inlet	T-141	+1.2	495.4	536.0	409.8
Ponce Inlet	R-142	+1.2	346.7	361.6	208.5
Ponce Inlet	R-143	+1.2	307.0	304.4	164.3
Ponce Inlet	R-144	+1.2	398.3	378.2	254.0
Ponce Inlet	R-145	+1.2	409.0	351.0	266.5
Ponce Inlet	R-146	+1.2	381.0	350.3	277.7
Ponce Inlet	T-147	+1.2	432.3	513.3	385.6
Ponce Inlet	R-148	+1.2	388.4	417.3	358.2
New Smyrna Beach	R-148	+1.2	388.4	417.3	358.2
New Smyrna Beach	T-149	+1.2	1,473.0	1469.1	1261.7
New Smyrna Beach	R-150	+1.2	680.0	638.8	562.9
New Smyrna Beach	R-151	+1.2	694.3	636.0	586.5
New Smyrna Beach	R-152	+1.2	620.9	628.7	551.4
New Smyrna Beach	R-153	+1.2	525.1	541.0	471.6
New Smyrna Beach	R-154	+1.2	503.2	515.0	495.7
New Smyrna Beach	R-155	+1.2	553.6	566.1	518.5
New Smyrna Beach	R-156	+1.2	548.0	549.0	470.0
New Smyrna Beach	R-157	+1.2	577.0	599.5	532.4
New Smyrna Beach	R-158	+1.2	485.9	532.5	434.2
New Smyrna Beach	R-159	+1.2	472.8	509.0	431.9
New Smyrna Beach	R-160	+1.2	441.8	436.5	364.0

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Community	FDEP Reference Monument	MHW Contour Feet NAVD88	MHW Shoreline <u>Position</u> July 2019	MHW Shoreline <u>Position</u> August 2022	MHW Shoreline <u>Position</u> November 2022
New Smyrna Beach	R-161	+1.2	499.5	398.8	305.1
New Smyrna Beach	R-162	+1.2	337.9	295.0	208.6
New Smyrna Beach	R-163	+1.2	274.4	356.0	250.4
New Smyrna Beach	T-164	+1.1	182.2	246.7	146.0
New Smyrna Beach	R-165	+1.1	178.9	215.0	106.7
New Smyrna Beach	R-166	+1.1	182.4	227.3	132.5
New Smyrna Beach	R-167	+1.1	161.8	213.3	83.6
New Smyrna Beach	R-168	+1.1	153.6	200.0	70.5
New Smyrna Beach	T-169	+1.1	264.2	300.3	176.0
New Smyrna Beach	R-170	+1.1	220.9	263.0	153.1
New Smyrna Beach	R-171	+1.1	274.1		214.5
New Smyrna Beach	R-172	+1.1	156.7	238.0	75.4
New Smyrna Beach	R-173	+1.1	198.0		114.2
New Smyrna Beach	R-174	+1.1	164.8		96.5
New Smyrna Beach	R-175	+1.1	182.8	228.2	120.5
New Smyrna Beach	R-176	+1.1	128.9		23.7
New Smyrna Beach	T-177	+1.1	150.4		75.0
New Smyrna Beach	R-178	+1.1	137.4	181.0	29.2
New Smyrna Beach	R-179	+1.1	128.9		25.6
New Smyrna Beach	R-180	+1.1	195.7		113.3
New Smyrna Beach	R-181	+1.1	125.8	181.5	64.5
New Smyrna Beach	R-182	+1.1	215.3		135.4
New Smyrna Beach	R-183	+1.1	225.3		87.2
New Smyrna Beach	R-184	+1.1	148.2	196.8	63.9
New Smyrna Beach	R-185	+1.1	304.7	224.7	
Silver Sands and Bethune Beach	R-185	+1.1	304.7	224.7	

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Community	FDEP Reference Monument	MHW Contour Feet NAVD88	MHW Shoreline <u>Position</u> July 2019	MHW Shoreline <u>Position</u> August 2022	MHW Shoreline <u>Position</u> November 2022
Silver Sands and Bethune Beach	R-186	+1.1	315.7		257.1
Silver Sands and Bethune Beach	R-187	+1.1	330.5	368.9	276.6
Silver Sands and Bethune Beach	T-188	+1.1	320.8		283.9
Silver Sands and Bethune Beach	R-189	+1.1	140.2		80.6
Silver Sands and Bethune Beach	T-190	+1.1	468.3	495.8	403.9
Silver Sands and Bethune Beach	R-191	+1.1	209.7		130.9
Silver Sands and Bethune Beach	R-192	+1.1	131.5		107.1
Silver Sands and Bethune Beach	R-193	+1.1	114.5	185.9	62.2
Silver Sands and Bethune Beach	T-194	+1.1	318.3		289.3
Silver Sands and Bethune Beach	R-195	+1.1	274.0		259.0
Silver Sands and Bethune Beach	T-196	+1.1	208.8	251.6	179.2
Silver Sands and Bethune Beach	T-197	+1.1	137.3		103.0
Silver Sands and Bethune Beach	R-198	+1.1	183.0		165.7
Silver Sands and Bethune Beach	R-199	+1.1	163.3	190.7	159.3
Canaveral National Seashore	R-199	+1.1	163.3	190.7	159.3
Canaveral National Seashore	R-200	+1.1	157.0		156.6
Canaveral National Seashore	R-201	+1.1	146.0		151.8
Canaveral National Seashore	R-202	+1.1	77.1	107.2	69.1
Canaveral National Seashore	R-203	+1.1	77.0		66.4

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Community	FDEP Reference Monument	MHW Contour Feet NAVD88	MHW Shoreline <u>Position</u> July 2019	MHW Shoreline <u>Position</u> August 2022	MHW Shoreline <u>Position</u> November 2022
Canaveral National Seashore	R-204	+1.1	166.7		145.9
Canaveral National Seashore	T-205	+1.1	189.3	216.9	160.1
Canaveral National Seashore	R-206	+1.1	219.9		189.6
Canaveral National Seashore	R-207	+1.1	233.7		232.7
Canaveral National Seashore	T-208	+1.1	269.2	276.8	252.1

Table B. 2 MHW Shoreline Position Change

Community	FDEP Reference Monument	MHW Contour Feet NAVD88	November 2022 (Post Event) MHW Shoreline Position Change (Feet) Relative to: July 2019	November 2022 (Post Event) MHW Shoreline Position Change (Feet) Relative to: August 2022
North Peninsula	R-0	+1.4	-44.1	-39.6
North Peninsula	R-1	+1.4	-16.0	
North Peninsula	R-2	+1.4	-19.7	
North Peninsula	R-3	+1.4	-72.8	-49.9
North Peninsula	R-4	+1.4	-51.1	
North Peninsula	R-5	+1.4	-42.7	
North Peninsula	R-6	+1.4	-38.4	-27.2
North Peninsula	R-7	+1.4	-20.9	
North Peninsula	R-8	+1.4	-27.4	
North Peninsula	R-9	+1.4	-55.7	-67.7
North Peninsula	R-10	+1.4	-54.8	
North Peninsula	R-11	+1.4	-80.8	
North Peninsula	R-12	+1.4	-7.0	1.9
North Peninsula	R-13	+1.4	-37.5	
North Peninsula	R-14	+1.4	-74.6	
North Peninsula	R-15	+1.4	-67.2	-38.1
North Peninsula	R-16	+1.4	-45.5	
Ormond-By-The-Sea	R-16	+1.4	-45.5	
Ormond-By-The-Sea	R-17	+1.4	-44.7	
Ormond-By-The-Sea	R-18	+1.4	-45.2	-36.5
Ormond-By-The-Sea	R-19	+1.4	-47.7	
Ormond-By-The-Sea	R-20	+1.4	-12.0	
Ormond-By-The-Sea	R-21	+1.3	-47.0	-44.9

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Community	FDEP Reference Monument	MHW Contour Feet NAVD88	November 2022 (Post Event) MHW Shoreline Position Change (Feet) Relative to: July 2019	November 2022 (Post Event) MHW Shoreline Position Change (Feet) Relative to: August 2022
Ormond-By-The-Sea	R-22	+1.3	-41.5	
Ormond-By-The-Sea	R-23	+1.3	-71.1	
Ormond-By-The-Sea	R-24	+1.3	-37.3	-49.8
Ormond-By-The-Sea	R-25	+1.3	-72.6	
Ormond-By-The-Sea	R-26	+1.3	-56.9	
Ormond-By-The-Sea	R-27	+1.3	-21.0	-52.5
Ormond-By-The-Sea	R-28	+1.3	-59.4	
Ormond-By-The-Sea	R-29	+1.3	-61.2	
Ormond-By-The-Sea	R-30	+1.3	-78.3	-64.1
Ormond-By-The-Sea	R-31	+1.3	-45.6	
Ormond-By-The-Sea	R-32	+1.3	-77.9	
Ormond-By-The-Sea	R-33	+1.3	-54.4	-43.6
Ormond-By-The-Sea	R-34	+1.3	-67.3	
Ormond-By-The-Sea	R-35	+1.3	-22.2	
Ormond-By-The-Sea	T-36	+1.3	-51.2	-29.3
Ormond-By-The-Sea	T-37	+1.3	-41.7	
Ormond-By-The-Sea	R-38	+1.3	-38.9	
Ormond-By-The-Sea	T-39	+1.3	-49.6	-28.5
Ormond-By-The-Sea	R-40	+1.3	-56.3	
Ormond-By-The-Sea	R-41	+1.3	-77.4	
Ormond-By-The-Sea	R-42	+1.3	-27.4	-26.7
Ormond-By-The-Sea	R-43	+1.3	-28.8	
Ormond-By-The-Sea	R-44	+1.3	-40.9	
Ormond-By-The-Sea	R-45	+1.3	-58.9	-60.7

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Community	FDEP Reference Monument	MHW Contour Feet NAVD88	November 2022 (Post Event) MHW Shoreline Position Change (Feet) Relative to: July 2019	November 2022 (Post Event) MHW Shoreline Position Change (Feet) Relative to: August 2022
Ormond-By-The-Sea	R-46	+1.3	-41.7	
Ormond-By-The-Sea	R-47	+1.3	-28.6	
Ormond Beach	R-47	+1.3	-28.6	
Ormond Beach	R-48	+1.3	-35.8	-48.4
Ormond Beach	R-49	+1.3	-34.3	
Ormond Beach	R-50	+1.3	-63.7	
Ormond Beach	R-51	+1.3	-59.3	-43.3
Ormond Beach	R-52	+1.3	-56.3	
Ormond Beach	T-53	+1.3	-51.1	
Ormond Beach	R-54	+1.3	-66.6	-50.4
Ormond Beach	R-55	+1.3	-59.4	
Ormond Beach	R-56	+1.3	-35.8	
Ormond Beach	R-57	+1.3	-84.0	-81.8
Ormond Beach	R-58	+1.3	-71.4	
Ormond Beach	T-59	+1.3	-82.3	
Ormond Beach	R-60	+1.3	-79.0	-57.1
Ormond Beach	R-61	+1.3	-28.7	
Ormond Beach	R-62	+1.3	-117.4	
Ormond Beach	R-63	+1.3	-89.2	-101.6
Ormond Beach	R-64	+1.3	-105.9	
Ormond Beach	T-65	+1.3	-102.8	
Ormond Beach	T-66	+1.3	-129.1	-113.6
Ormond Beach	R-67	+1.3	-85.1	
Daytona Beach and Daytona Beach Shores	R-67	+1.3	-85.1	

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Community	FDEP Reference Monument	MHW Contour Feet NAVD88	November 2022 (Post Event) MHW Shoreline Position Change (Feet) Relative to: July 2019	November 2022 (Post Event) MHW Shoreline Position Change (Feet) Relative to: August 2022
Daytona Beach and Daytona Beach Shores	R-68	+1.3	-144.6	
Daytona Beach and Daytona Beach Shores	T-69	+1.3	-166.9	-107.6
Daytona Beach and Daytona Beach Shores	R-70	+1.3	-110.2	
Daytona Beach and Daytona Beach Shores	R-71	+1.3	-125.6	
Daytona Beach and Daytona Beach Shores	R-72	+1.3	-85.4	-94.7
Daytona Beach and Daytona Beach Shores	R-73	+1.3	-155.3	
Daytona Beach and Daytona Beach Shores	R-74	+1.3	-133.4	
Daytona Beach and Daytona Beach Shores	R-75	+1.3	-116.3	-111.5
Daytona Beach and Daytona Beach Shores	R-76	+1.3	-167.4	
Daytona Beach and Daytona Beach Shores	R-77	+1.3	-127.6	
Daytona Beach and Daytona Beach Shores	T-78	+1.3	-128.1	-81.3
Daytona Beach and Daytona Beach Shores	R-79	+1.3	-121.0	
Daytona Beach and Daytona Beach Shores	R-80	+1.3	-179.0	
Daytona Beach and Daytona Beach Shores	T-81	+1.2	-126.1	-103.5
Daytona Beach and Daytona Beach Shores	R-82	+1.2	-151.1	
Daytona Beach and Daytona Beach Shores	R-83	+1.2	-126.2	
Daytona Beach and Daytona Beach Shores	R-84	+1.2	-169.6	-144.0
Daytona Beach and Daytona Beach Shores	R-85	+1.2	-91.5	
Daytona Beach and Daytona Beach Shores	R-86	+1.2	-166.9	

Volusia County Beach Monitoring- 2022 Hurricane Season
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Community	FDEP Reference Monument	MHW Contour Feet NAVD88	November 2022 (Post Event) MHW Shoreline Position Change (Feet) Relative to: July 2019	November 2022 (Post Event) MHW Shoreline Position Change (Feet) Relative to: August 2022
Daytona Beach and Daytona Beach Shores	R-87	+1.2	-164.1	-127.2
Daytona Beach and Daytona Beach Shores	T-88	+1.2	-176.5	
Daytona Beach and Daytona Beach Shores	T-89	+1.2	-130.1	
Daytona Beach and Daytona Beach Shores	R-90	+1.2	-201.6	-140.8
Daytona Beach and Daytona Beach Shores	R-91	+1.2	-192.8	
Daytona Beach and Daytona Beach Shores	T-92	+1.2	-168.1	
Daytona Beach and Daytona Beach Shores	R-93	+1.2	-163.2	-175.3
Daytona Beach and Daytona Beach Shores	R-94	+1.2	-148.2	
Daytona Beach and Daytona Beach Shores	T-95	+1.2	-172.9	
Daytona Beach and Daytona Beach Shores	T-96	+1.2	-160.8	-123.0
Daytona Beach and Daytona Beach Shores	R-97	+1.2	-173.8	
Daytona Beach and Daytona Beach Shores	T-98	+1.2	-159.4	
Daytona Beach and Daytona Beach Shores	T-99	+1.2	-162.5	-132.7
Daytona Beach and Daytona Beach Shores	R-100	+1.2	-165.8	
Daytona Beach and Daytona Beach Shores	R-101	+1.2	-150.7	
Daytona Beach and Daytona Beach Shores	T-102	+1.2	-183.4	-178.5
Daytona Beach and Daytona Beach Shores	T-103	+1.2	-174.7	
Daytona Beach and Daytona Beach Shores	R-104	+1.2	-162.6	
Daytona Beach and Daytona Beach Shores	R-105	+1.2	-135.0	-141.3

Volusia County Beach Monitoring- 2022 Hurricane Season
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Community	FDEP Reference Monument	MHW Contour Feet NAVD88	November 2022 (Post Event) MHW Shoreline Position Change (Feet) Relative to: July 2019	November 2022 (Post Event) MHW Shoreline Position Change (Feet) Relative to: August 2022
Daytona Beach and Daytona Beach Shores	R-106	+1.2	-170.0	
Daytona Beach and Daytona Beach Shores	R-107	+1.2	-197.9	
Daytona Beach and Daytona Beach Shores	R-108	+1.2	-198.4	-179.1
Daytona Beach and Daytona Beach Shores	T-109	+1.2	-162.6	
Daytona Beach and Daytona Beach Shores	R-110	+1.2	-152.2	
Daytona Beach and Daytona Beach Shores	R-111	+1.2	-194.1	-200.7
Daytona Beach and Daytona Beach Shores	R-112	+1.2	-187.5	
Daytona Beach and Daytona Beach Shores	T-113	+1.2	-167.9	
Daytona Beach and Daytona Beach Shores	T-114	+1.2	-179.5	-190.8
Daytona Beach and Daytona Beach Shores	T-115	+1.2	-187.4	
Daytona Beach and Daytona Beach Shores	R-116	+1.2	-201.2	
Daytona Beach and Daytona Beach Shores	R-117	+1.2	-189.6	-167.1
Daytona Beach and Daytona Beach Shores	T-118	+1.2	-136.0	
Daytona Beach and Daytona Beach Shores	R-119	+1.2	-151.4	
Daytona Beach and Daytona Beach Shores	R-120	+1.2	-161.1	-187.3
Daytona Beach and Daytona Beach Shores	R-121	+1.2	-87.1	
Daytona Beach and Daytona Beach Shores	R-122	+1.2	-170.9	
Wilbur-By-The-Sea	R-122	+1.2	-170.9	
Wilbur-By-The-Sea	T-123	+1.2	-145.1	-147.5
Wilbur-By-The-Sea	R-124	+1.2	-148.7	

Volusia County Beach Monitoring- 2022 Hurricane Season
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Community	FDEP Reference Monument	MHW Contour Feet NAVD88	November 2022 (Post Event) MHW Shoreline Position Change (Feet) Relative to: July 2019	November 2022 (Post Event) MHW Shoreline Position Change (Feet) Relative to: August 2022
Wilbur-By-The-Sea	R-125	+1.2	-151.8	-193.0
Wilbur-By-The-Sea	R-126	+1.2	-143.5	-187.4
Wilbur-By-The-Sea	T-127	+1.2	-109.3	-191.2
Wilbur-By-The-Sea	R-128	+1.2	-209.2	-170.6
Ponce Inlet	R-128	+1.2	-209.2	-170.6
Ponce Inlet	R-129	+1.2	-182.6	-152.5
Ponce Inlet	R-130	+1.2	-177.0	-173.0
Ponce Inlet	R-131	+1.2	-152.8	-194.0
Ponce Inlet	R-132	+1.2	-184.3	-138.4
Ponce Inlet	R-133	+1.2	-112.9	-200.4
Ponce Inlet	R-134	+1.2	-170.6	-178.7
Ponce Inlet	R-135	+1.2	-215.1	-156.8
Ponce Inlet	R-136	+1.2	-111.2	-176.0
Ponce Inlet	R-137	+1.2	-99.5	-178.4
Ponce Inlet	R-138	+1.2	-93.3	-123.3
Ponce Inlet	R-139	+1.2	-152.8	-159.2
Ponce Inlet	T-140	+1.2	-153.4	-148.9
Ponce Inlet	T-141	+1.2	-85.6	-126.2
Ponce Inlet	R-142	+1.2	-138.2	-153.1
Ponce Inlet	R-143	+1.2	-142.7	-140.1
Ponce Inlet	R-144	+1.2	-144.4	-124.3
Ponce Inlet	R-145	+1.2	-142.5	-84.5
Ponce Inlet	R-146	+1.2	-103.3	-72.7
Ponce Inlet	T-147	+1.2	-46.7	-127.7

Volusia County Beach Monitoring- 2022 Hurricane Season
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Community	FDEP Reference Monument	MHW Contour Feet NAVD88	November 2022 (Post Event) MHW Shoreline Position Change (Feet) Relative to: July 2019	November 2022 (Post Event) MHW Shoreline Position Change (Feet) Relative to: August 2022
Ponce Inlet	R-148	+1.2	-30.2	-59.2
New Smyrna Beach	R-148	+1.2	-30.2	-59.2
New Smyrna Beach	T-149	+1.2	-211.3	-207.4
New Smyrna Beach	R-150	+1.2	-117.1	-75.8
New Smyrna Beach	R-151	+1.2	-107.8	-49.4
New Smyrna Beach	R-152	+1.2	-69.5	-77.2
New Smyrna Beach	R-153	+1.2	-53.5	-69.4
New Smyrna Beach	R-154	+1.2	-7.5	-19.3
New Smyrna Beach	R-155	+1.2	-35.1	-47.6
New Smyrna Beach	R-156	+1.2	-78.0	-79.0
New Smyrna Beach	R-157	+1.2	-44.6	-67.1
New Smyrna Beach	R-158	+1.2	-51.7	-98.3
New Smyrna Beach	R-159	+1.2	-40.9	-77.1
New Smyrna Beach	R-160	+1.2	-77.8	-72.5
New Smyrna Beach	R-161	+1.2	-194.4	-93.6
New Smyrna Beach	R-162	+1.2	-129.2	-86.4
New Smyrna Beach	R-163	+1.2	-24.0	-105.6
New Smyrna Beach	T-164	+1.1	-36.2	-100.7
New Smyrna Beach	R-165	+1.1	-72.2	-108.3
New Smyrna Beach	R-166	+1.1	-50.0	-94.9
New Smyrna Beach	R-167	+1.1	-78.2	-129.7
New Smyrna Beach	R-168	+1.1	-83.1	-129.5
New Smyrna Beach	T-169	+1.1	-88.1	-124.3
New Smyrna Beach	R-170	+1.1	-67.8	-109.9

Volusia County Beach Monitoring- 2022 Hurricane Season
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Community	FDEP Reference Monument	MHW Contour Feet NAVD88	November 2022 (Post Event) MHW Shoreline Position Change (Feet) Relative to: July 2019	November 2022 (Post Event) MHW Shoreline Position Change (Feet) Relative to: August 2022
New Smyrna Beach	R-171	+1.1	-59.5	
New Smyrna Beach	R-172	+1.1	-81.4	-162.6
New Smyrna Beach	R-173	+1.1	-83.8	
New Smyrna Beach	R-174	+1.1	-68.3	
New Smyrna Beach	R-175	+1.1	-62.3	-107.7
New Smyrna Beach	R-176	+1.1	-105.2	
New Smyrna Beach	T-177	+1.1	-75.4	
New Smyrna Beach	R-178	+1.1	-108.2	-151.7
New Smyrna Beach	R-179	+1.1	-103.3	
New Smyrna Beach	R-180	+1.1	-82.5	
New Smyrna Beach	R-181	+1.1	-61.3	-117.0
New Smyrna Beach	R-182	+1.1	-79.9	
New Smyrna Beach	R-183	+1.1	-138.1	
New Smyrna Beach	R-184	+1.1	-84.3	-132.9
New Smyrna Beach	R-185	+1.1	-79.9	
Silver Sands and Bethune Beach	R-185	+1.1	-79.9	
Silver Sands and Bethune Beach	R-186	+1.1	-58.6	
Silver Sands and Bethune Beach	R-187	+1.1	-53.9	-92.3
Silver Sands and Bethune Beach	T-188	+1.1	-36.9	
Silver Sands and Bethune Beach	R-189	+1.1	-59.6	
Silver Sands and Bethune Beach	T-190	+1.1	-64.4	-91.9
Silver Sands and Bethune Beach	R-191	+1.1	-78.8	

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Community	FDEP Reference Monument	MHW Contour Feet NAVD88	November 2022 (Post Event) MHW Shoreline Position Change (Feet) Relative to: July 2019	November 2022 (Post Event) MHW Shoreline Position Change (Feet) Relative to: August 2022
Silver Sands and Bethune Beach	R-192	+1.1	-24.4	
Silver Sands and Bethune Beach	R-193	+1.1	-52.3	-123.7
Silver Sands and Bethune Beach	T-194	+1.1	-29.0	
Silver Sands and Bethune Beach	R-195	+1.1	-15.0	
Silver Sands and Bethune Beach	T-196	+1.1	-29.6	-72.4
Silver Sands and Bethune Beach	T-197	+1.1	-34.3	
Silver Sands and Bethune Beach	R-198	+1.1	-17.3	
Silver Sands and Bethune Beach	R-199	+1.1	-4.1	-31.4
Canaveral National Seashore	R-199	+1.1	-4.1	-31.4
Canaveral National Seashore	R-200	+1.1	-0.4	
Canaveral National Seashore	R-201	+1.1	5.8	
Canaveral National Seashore	R-202	+1.1	-8.0	-38.1
Canaveral National Seashore	R-203	+1.1	-10.6	
Canaveral National Seashore	R-204	+1.1	-20.8	
Canaveral National Seashore	T-205	+1.1	-29.2	-56.8
Canaveral National Seashore	R-206	+1.1	-30.3	
Canaveral National Seashore	R-207	+1.1	-1.0	
Canaveral National Seashore	T-208	+1.1	-17.1	-24.8

Table B. 3 July 2019 to November 2022 Volume Change

Community	FDEP Reference Monument	Volume Change Above MHW Cubic Yard/Feet	Volume Change Above MHW Cubic Yard	Volume Change MHW to Profile Extent Cubic Yard/Feet	Volume Change MHW to Profile Extent Cubic Yard	Volume Change <u>Total</u> Cubic Yard/Feet	Volume Change <u>Total</u> Cubic Yard
North Peninsula	R-0	-6.4	-3,500	-15.7	-8,500	-22.1	-11,900
North Peninsula	R-1	-1.1	-600	6.4	3,500	5.3	2,900
North Peninsula	R-2	-3.3	-3,100	4.1	3,800	0.8	800
North Peninsula	R-3	-19.4	-18,100	-27.0	-25,200	-46.4	-43,300
North Peninsula	R-4	-17.9	-16,800	-14.9	-13,900	-32.8	-30,700
North Peninsula	R-5	-12.3	-11,600	1.0	900	-11.3	-10,700
North Peninsula	R-6	-9.2	-8,700	-15.2	-14,500	-24.4	-23,200
North Peninsula	R-7	-4.4	-4,200	1.0	1,000	-3.4	-3,200
North Peninsula	R-8	-4.5	-4,200	-2.3	-2,100	-6.7	-6,400
North Peninsula	R-9	-14.5	-13,800	-16.5	-15,800	-31.0	-29,700
North Peninsula	R-10	-19.0	-18,200	-29.1	-27,900	-48.1	-46,100
North Peninsula	R-11	-21.9	-20,900	-13.7	-13,000	-35.6	-33,900
North Peninsula	R-12	2.5	2,400	18.4	17,600	20.9	20,100
North Peninsula	R-13	-8.5	-8,200	0.2	100	-8.3	-8,000
North Peninsula	R-14	-13.2	-12,600	-27.5	-26,200	-40.7	-38,800
North Peninsula	R-15	-13.3	-12,600	-33.5	-31,700	-46.8	-44,300
North Peninsula	R-16	-1.5	-700	-3.6	-1,700	-5.1	-2,400
Ormond-by-the-Sea	R-16	-1.5	-700	-3.6	-1,700	-5.1	-2,400
Ormond-by-the-Sea	R-17	-12.0	-11,400	-23.3	-22,100	-35.2	-33,500
Ormond-by-the-Sea	R-18	-9.8	-9,300	-15.7	-14,800	-25.5	-24,100
Ormond-by-the-Sea	R-19	-6.3	-5,900	-32.5	-30,600	-38.7	-36,500
Ormond-by-the-Sea	R-20	1.3	1,200	10.5	9,700	11.8	10,900
Ormond-by-the-Sea	R-21	-3.2	-2,900	1.8	1,600	-1.4	-1,300

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Community	FDEP Reference Monument	Volume Change Above MHW Cubic Yard/Feet	Volume Change Above MHW Cubic Yard	Volume Change MHW to Profile Extent Cubic Yard/Feet	Volume Change MHW to Profile Extent Cubic Yard	Volume Change <u>Total</u> Cubic Yard/Feet	Volume Change <u>Total</u> Cubic Yard
Ormond-by-the-Sea	R-22	-7.1	-6,600	-11.5	-10,600	-18.6	-17,200
Ormond-by-the-Sea	R-23	-9.5	-9,000	-19.1	-18,000	-28.6	-27,000
Ormond-by-the-Sea	R-24	-7.6	-7,300	-22.5	-21,600	-30.1	-28,900
Ormond-by-the-Sea	R-25	-18.7	-17,800	-11.5	-11,000	-30.2	-28,700
Ormond-by-the-Sea	R-26	-10.7	-10,000	-10.2	-9,600	-21.0	-19,600
Ormond-by-the-Sea	R-27	2.8	2,600	-1.2	-1,200	1.5	1,400
Ormond-by-the-Sea	R-28	-5.8	-5,500	4.4	4,100	-1.4	-1,400
Ormond-by-the-Sea	R-29	-15.7	-14,400	-39.8	-36,600	-55.5	-51,000
Ormond-by-the-Sea	R-30	-14.6	-13,600	-37.4	-34,700	-52.0	-48,200
Ormond-by-the-Sea	R-31	-8.8	-8,400	-9.3	-8,900	-18.1	-17,200
Ormond-by-the-Sea	R-32	-14.0	-13,100	-30.3	-28,400	-44.3	-41,500
Ormond-by-the-Sea	R-33	-10.7	-10,100	-25.9	-24,500	-36.6	-34,600
Ormond-by-the-Sea	R-34	-13.2	-12,400	-41.5	-38,900	-54.7	-51,300
Ormond-by-the-Sea	R-35	-5.8	-5,400	9.6	8,900	3.8	3,500
Ormond-by-the-Sea	T-36	-9.7	-9,000	-29.4	-27,400	-39.1	-36,400
Ormond-by-the-Sea	T-37	-0.1	-100	-22.0	-20,500	-22.1	-20,700
Ormond-by-the-Sea	R-38	-4.1	-3,900	-0.6	-500	-4.7	-4,400
Ormond-by-the-Sea	T-39	-1.4	-1,300	-0.7	-700	-2.1	-1,900
Ormond-by-the-Sea	R-40	-8.5	-7,900	-0.5	-400	-8.9	-8,300
Ormond-by-the-Sea	R-41	-8.3	-8,000	-0.2	-200	-8.5	-8,200
Ormond-by-the-Sea	R-42	-5.3	-5,000	-0.5	-500	-5.8	-5,500
Ormond-by-the-Sea	R-43	-10.3	-9,500	-0.4	-300	-10.7	-9,800
Ormond-by-the-Sea	R-44	-2.2	-1,800	-0.4	-300	-2.6	-2,100
Ormond-by-the-Sea	R-45	-3.2	-2,700	-0.2	-100	-3.3	-2,800

Volusia County Beach Monitoring- 2022 Hurricane Season
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Community	FDEP Reference Monument	Volume Change Above MHW Cubic Yard/Feet	Volume Change Above MHW Cubic Yard	Volume Change MHW to Profile Extent Cubic Yard/Feet	Volume Change MHW to Profile Extent Cubic Yard	Volume Change <u>Total</u> Cubic Yard/Feet	Volume Change <u>Total</u> Cubic Yard
Ormond-by-the-Sea	R-46	-4.4	-4,600	-0.2	-200	-4.6	-4,800
Ormond-by-the-Sea	R-47	-7.3	-3,800	-0.4	-200	-7.7	-4,000
Ormond Beach	R-47	-7.3	-3,600	-0.4	-200	-7.7	-3,800
Ormond Beach	R-48	-9.0	-8,800	-0.9	-800	-9.9	-9,700
Ormond Beach	R-49	-4.6	-4,400	-0.5	-500	-5.1	-4,900
Ormond Beach	R-50	-4.9	-4,600	-0.6	-500	-5.5	-5,100
Ormond Beach	R-51	-8.1	-7,600	-0.5	-400	-8.5	-8,000
Ormond Beach	R-52	-7.9	-7,500	-0.5	-400	-8.4	-7,900
Ormond Beach	T-53	-11.1	-10,700	-0.3	-300	-11.5	-11,000
Ormond Beach	R-54	-11.5	-11,700	-0.4	-400	-12.0	-12,100
Ormond Beach	R-55	-8.2	-7,500	-0.5	-400	-8.7	-7,900
Ormond Beach	R-56	-5.3	-4,700	-1.0	-800	-6.3	-5,500
Ormond Beach	R-57	-2.2	-1,900	-0.5	-400	-2.6	-2,400
Ormond Beach	R-58	-4.1	-4,000	-0.5	-500	-4.6	-4,500
Ormond Beach	T-59	-9.1	-9,000	-0.7	-700	-9.8	-9,700
Ormond Beach	R-60	-15.2	-13,400	-0.9	-800	-16.0	-14,100
Ormond Beach	R-61	-11.2	-10,900	-0.7	-700	-11.9	-11,600
Ormond Beach	R-62	-18.9	-18,900	-4.1	-4,100	-23.0	-22,900
Ormond Beach	R-63	-16.8	-15,800	-2.6	-2,400	-19.4	-18,200
Ormond Beach	R-64	-16.0	-15,100	-3.0	-2,900	-19.1	-18,000
Ormond Beach	T-65	-11.8	-11,900	-2.5	-2,500	-14.3	-14,400
Ormond Beach	T-66	-14.9	-14,500	-4.0	-3,800	-18.9	-18,300
Ormond Beach	R-67	-14.1	-6,200	-1.6	-700	-15.7	-6,900
Daytona Beach and Daytona Beach Shores	R-67	-14.1	-6,700	-1.6	-800	-15.7	-7,500

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Community	FDEP Reference Monument	Volume Change Above <u>MHW</u> Cubic Yard/Feet	Volume Change Above <u>MHW</u> Cubic Yard	Volume Change MHW to Profile <u>Extent</u> Cubic Yard/Feet	Volume Change MHW to Profile <u>Extent</u> Cubic Yard	Volume Change <u>Total</u> Cubic Yard/Feet	Volume Change <u>Total</u> Cubic Yard
Daytona Beach and Daytona Beach Shores	R-68	-17.2	-16,300	-4.0	-3,800	-21.1	-20,100
Daytona Beach and Daytona Beach Shores	T-69	-10.5	-9,400	-0.8	-700	-11.3	-10,100
Daytona Beach and Daytona Beach Shores	R-70	-15.0	-13,400	-3.5	-3,100	-18.5	-16,600
Daytona Beach and Daytona Beach Shores	R-71	-11.5	-11,300	-1.3	-1,300	-12.8	-12,600
Daytona Beach and Daytona Beach Shores	R-72	-9.4	-9,100	-3.3	-3,200	-12.7	-12,300
Daytona Beach and Daytona Beach Shores	R-73	-25.3	-23,000	-3.7	-3,300	-29.0	-26,300
Daytona Beach and Daytona Beach Shores	R-74	-31.9	-27,700	-3.0	-2,600	-34.9	-30,300
Daytona Beach and Daytona Beach Shores	R-75	-11.3	-11,000	-4.2	-4,100	-15.6	-15,100
Daytona Beach and Daytona Beach Shores	R-76	-17.4	-17,900	-1.8	-1,900	-19.3	-19,700
Daytona Beach and Daytona Beach Shores	R-77	-9.6	-9,300	-1.7	-1,700	-11.4	-10,900
Daytona Beach and Daytona Beach Shores	T-78	-11.8	-11,800	-3.0	-3,000	-14.9	-14,800
Daytona Beach and Daytona Beach Shores	R-79	-21.4	-21,400	-3.8	-3,800	-25.2	-25,200
Daytona Beach and Daytona Beach Shores	R-80	-9.4	-9,200	-2.0	-2,000	-11.5	-11,200
Daytona Beach and Daytona Beach Shores	T-81	-10.5	-10,000	-1.8	-1,700	-12.3	-11,700
Daytona Beach and Daytona Beach Shores	R-82	-9.7	-9,000	-1.7	-1,600	-11.4	-10,700
Daytona Beach and Daytona Beach Shores	R-83	-13.2	-12,900	-2.1	-2,100	-15.3	-15,000
Daytona Beach and Daytona Beach Shores	R-84	-26.3	-24,800	-3.7	-3,500	-30.0	-28,300
Daytona Beach and Daytona Beach Shores	R-85	-7.4	-6,300	-3.1	-2,600	-10.5	-8,800
Daytona Beach and Daytona Beach Shores	R-86	-10.5	-9,100	-1.6	-1,400	-12.1	-10,500

Volusia County Beach Monitoring- 2022 Hurricane Season
Appendix B

Community	FDEP Reference Monument	Volume Change Above <u>MHW</u> Cubic Yard/Feet	Volume Change Above <u>MHW</u> Cubic Yard	Volume Change MHW to Profile <u>Extent</u> Cubic Yard/Feet	Volume Change MHW to Profile <u>Extent</u> Cubic Yard	Volume Change <u>Total</u> Cubic Yard/Feet	Volume Change <u>Total</u> Cubic Yard
Daytona Beach and Daytona Beach Shores	R-87	-11.2	-10,800	-1.2	-1,200	-12.4	-12,000
Daytona Beach and Daytona Beach Shores	T-88	-12.3	-12,300	-1.8	-1,800	-14.1	-14,100
Daytona Beach and Daytona Beach Shores	T-89	-14.7	-13,100	-2.2	-2,000	-16.9	-15,100
Daytona Beach and Daytona Beach Shores	R-90	-5.5	-4,800	-2.4	-2,100	-7.8	-7,000
Daytona Beach and Daytona Beach Shores	R-91	-16.5	-14,300	-2.3	-2,000	-18.8	-16,200
Daytona Beach and Daytona Beach Shores	T-92	-15.1	-12,700	-1.6	-1,400	-16.7	-14,100
Daytona Beach and Daytona Beach Shores	R-93	-14.7	-14,000	-1.5	-1,500	-16.2	-15,400
Daytona Beach and Daytona Beach Shores	R-94	-6.9	-6,900	-1.3	-1,300	-8.2	-8,100
Daytona Beach and Daytona Beach Shores	T-95	-9.4	-9,100	-0.6	-600	-10.0	-9,700
Daytona Beach and Daytona Beach Shores	T-96	-11.5	-10,600	-1.6	-1,500	-13.1	-12,000
Daytona Beach and Daytona Beach Shores	R-97	-11.1	-10,500	-2.3	-2,200	-13.5	-12,800
Daytona Beach and Daytona Beach Shores	T-98	-11.5	-11,100	-3.4	-3,300	-14.9	-14,300
Daytona Beach and Daytona Beach Shores	T-99	-9.2	-8,600	-0.7	-700	-10.0	-9,200
Daytona Beach and Daytona Beach Shores	R-100	-10.2	-9,100	-2.3	-2,100	-12.5	-11,200
Daytona Beach and Daytona Beach Shores	R-101	-11.7	-11,300	-2.0	-1,900	-13.7	-13,200
Daytona Beach and Daytona Beach Shores	T-102	-19.2	-19,400	-3.3	-3,300	-22.5	-22,700
Daytona Beach and Daytona Beach Shores	T-103	-10.4	-10,400	-3.9	-3,800	-14.3	-14,200
Daytona Beach and Daytona Beach Shores	R-104	-35.5	-35,800	-4.4	-4,500	-39.9	-40,300
Daytona Beach and Daytona Beach Shores	R-105	-26.1	-25,400	-2.6	-2,500	-28.7	-28,000

Volusia County Beach Monitoring- 2022 Hurricane Season
Appendix B

Community	FDEP Reference Monument	Volume Change Above MHW Cubic Yard/Feet	Volume Change Above MHW Cubic Yard	Volume Change MHW to Profile Extent Cubic Yard/Feet	Volume Change MHW to Profile Extent Cubic Yard	Volume Change <u>Total</u> Cubic Yard/Feet	Volume Change <u>Total</u> Cubic Yard
Daytona Beach and Daytona Beach Shores	R-106	-24.6	-23,800	-3.2	-3,100	-27.9	-27,000
Daytona Beach and Daytona Beach Shores	R-107	-13.3	-12,900	-1.6	-1,500	-14.9	-14,400
Daytona Beach and Daytona Beach Shores	R-108	-11.2	-10,900	-1.7	-1,600	-12.8	-12,500
Daytona Beach and Daytona Beach Shores	T-109	-12.3	-12,400	-1.8	-1,800	-14.2	-14,200
Daytona Beach and Daytona Beach Shores	R-110	-15.3	-14,300	-9.3	-8,700	-24.6	-23,000
Daytona Beach and Daytona Beach Shores	R-111	-15.3	-13,300	-21.7	-18,900	-37.0	-32,200
Daytona Beach and Daytona Beach Shores	R-112	-17.9	-16,400	-21.8	-20,000	-39.7	-36,300
Daytona Beach and Daytona Beach Shores	T-113	-16.1	-15,200	0.0	0	-16.1	-15,300
Daytona Beach and Daytona Beach Shores	T-114	-15.5	-18,500	-4.5	-5,400	-20.0	-23,900
Daytona Beach and Daytona Beach Shores	T-115	-14.9	-15,000	-8.6	-8,700	-23.6	-23,700
Daytona Beach and Daytona Beach Shores	R-116	-15.7	-11,600	-58.6	-43,200	-74.3	-54,700
Daytona Beach and Daytona Beach Shores	R-117	-20.1	-19,300	-29.4	-28,200	-49.5	-47,400
Daytona Beach and Daytona Beach Shores	T-118	-23.2	-21,300	-30.9	-28,300	-54.1	-49,500
Daytona Beach and Daytona Beach Shores	R-119	-16.2	-15,300	-28.1	-26,600	-44.3	-41,900
Daytona Beach and Daytona Beach Shores	R-120	-15.9	-15,400	-20.5	-19,800	-36.5	-35,200
Daytona Beach and Daytona Beach Shores	R-121	-13.8	-12,200	-17.2	-15,200	-31.0	-27,400
Daytona Beach and Daytona Beach Shores	R-122	-23.9	-11,000	-28.4	-13,100	-52.3	-24,100
Wilbur-by-the-Sea	R-122	-23.9	-10,500	-28.4	-12,500	-52.3	-23,000
Wilbur-by-the-Sea	T-123	-14.6	-14,000	-3.9	-3,800	-18.5	-17,800
Wilbur-by-the-Sea	R-124	-17.6	-18,000	-35.7	-36,300	-53.3	-54,300

Volusia County Beach Monitoring- 2022 Hurricane Season
Appendix B

Community	FDEP Reference Monument	Volume Change Above MHW Cubic Yard/Feet	Volume Change Above MHW Cubic Yard	Volume Change MHW to Profile Extent Cubic Yard/Feet	Volume Change MHW to Profile Extent Cubic Yard	Volume Change <u>Total</u> Cubic Yard/Feet	Volume Change <u>Total</u> Cubic Yard
Wilbur-by-the-Sea	R-125	-16.9	-16,500	-38.5	-37,500	-55.4	-54,000
Wilbur-by-the-Sea	R-126	-30.7	-28,800	-14.9	-14,000	-45.6	-42,800
Wilbur-by-the-Sea	T-127	-21.1	-19,900	-34.5	-32,500	-55.6	-52,400
Wilbur-by-the-Sea	R-128	-17.3	-8,300	-23.1	-11,100	-40.4	-19,500
Ponce Inlet	R-128	-17.3	-8,200	-23.1	-10,900	-40.4	-19,100
Ponce Inlet	R-129	-25.5	-24,200	-14.2	-13,500	-39.7	-37,700
Ponce Inlet	R-130	-23.2	-22,800	-20.5	-20,000	-43.7	-42,800
Ponce Inlet	R-131	-42.2	-41,700	-25.0	-24,700	-67.3	-66,400
Ponce Inlet	R-132	-25.8	-24,500	-18.3	-17,400	-44.1	-41,900
Ponce Inlet	R-133	-42.9	-40,500	-30.2	-28,500	-73.1	-69,000
Ponce Inlet	R-134	-25.0	-23,700	-13.7	-12,900	-38.7	-36,600
Ponce Inlet	R-135	-29.1	-27,500	-16.8	-15,900	-46.0	-43,400
Ponce Inlet	R-136	-28.7	-27,400	-13.8	-13,200	-42.6	-40,500
Ponce Inlet	R-137	-29.7	-27,700	-11.7	-11,000	-41.4	-38,700
Ponce Inlet	R-138	-32.4	-29,700	-23.0	-21,000	-55.4	-50,700
Ponce Inlet	R-139	-38.7	-33,400	-11.2	-9,700	-50.0	-43,100
Ponce Inlet	T-140	-31.4	-27,300	-17.5	-15,200	-48.9	-42,500
Ponce Inlet	T-141	-24.0	-23,500	-3.3	-3,200	-27.3	-26,700
Ponce Inlet	R-142	-25.1	-23,500	-16.4	-15,400	-41.7	-39,100
Ponce Inlet	R-143	-26.9	-24,700	-12.9	-11,900	-39.8	-36,600
Ponce Inlet	R-144	-24.4	-22,700	-17.2	-16,000	-41.6	-38,800
Ponce Inlet	R-145	-31.7	-29,200	3.5	3,200	-28.2	-26,100
Ponce Inlet	R-146	-43.2	-41,600	8.6	8,300	-34.6	-33,300
Ponce Inlet	T-147	-47.5	-42,300	14.9	13,300	-32.6	-29,000

Volusia County Beach Monitoring- 2022 Hurricane Season
Appendix B

Community	FDEP Reference Monument	Volume Change Above MHW Cubic Yard/Feet	Volume Change Above MHW Cubic Yard	Volume Change MHW to Profile Extent Cubic Yard/Feet	Volume Change MHW to Profile Extent Cubic Yard	Volume Change <u>Total</u> Cubic Yard/Feet	Volume Change <u>Total</u> Cubic Yard
Ponce Inlet	R-148	-38.6	-34,300	46.1	40,900	7.5	6,700
New Smyrna Beach	T-149	-41.5	-22,000	-38.8	-20,500	-80.3	-42,600
New Smyrna Beach	R-150	-18.1	-9,400	0.4	200	-17.7	-9,200
New Smyrna Beach	R-151	-20.0	-16,000	96.1	76,800	76.2	60,900
New Smyrna Beach	R-152	-21.6	-21,800	-17.4	-17,600	-39.0	-39,300
New Smyrna Beach	R-153	-6.2	-6,000	-1.5	-1,400	-7.7	-7,400
New Smyrna Beach	R-154	-2.0	-1,800	7.7	7,200	5.7	5,300
New Smyrna Beach	R-155	-3.7	-3,600	9.2	8,900	5.5	5,400
New Smyrna Beach	R-156	-2.4	-2,300	-1.6	-1,500	-4.0	-3,800
New Smyrna Beach	R-157	-7.6	-7,200	-7.5	-7,000	-15.1	-14,200
New Smyrna Beach	R-158	-7.3	-7,100	-20.7	-20,000	-27.9	-27,000
New Smyrna Beach	R-159	-7.0	-6,800	-41.7	-40,800	-48.7	-47,600
New Smyrna Beach	R-160	-12.8	-12,400	-56.5	-55,000	-69.2	-67,500
New Smyrna Beach	R-161	-32.4	-31,100	-102.7	-98,500	-135.2	-129,500
New Smyrna Beach	R-162	-18.6	-18,200	-35.2	-34,400	-53.9	-52,500
New Smyrna Beach	R-163	-10.5	-10,200	-14.6	-14,200	-25.1	-24,400
New Smyrna Beach	T-164	-6.2	-5,900	10.1	9,700	4.0	3,800
New Smyrna Beach	R-165	-14.2	-14,300	7.0	7,000	-7.2	-7,300
New Smyrna Beach	R-166	-17.6	-17,900	9.6	9,800	-7.9	-8,100
New Smyrna Beach	R-167	-11.7	-10,500	-7.6	-6,800	-19.2	-17,300
New Smyrna Beach	R-168	-16.8	-15,100	2.3	2,100	-14.5	-13,000
New Smyrna Beach	T-169	-14.7	-14,600	-7.1	-7,100	-21.8	-21,700
New Smyrna Beach	R-170	-28.1	-27,500	5.2	5,100	-22.9	-22,400
New Smyrna Beach	R-171	-20.1	-19,300	-7.3	-7,000	-27.3	-26,300

Volusia County Beach Monitoring- 2022 Hurricane Season
Appendix B

Community	FDEP Reference Monument	Volume Change Above MHW Cubic Yard/Feet	Volume Change Above MHW Cubic Yard	Volume Change MHW to Profile Extent Cubic Yard/Feet	Volume Change MHW to Profile Extent Cubic Yard	Volume Change <u>Total</u> Cubic Yard/Feet	Volume Change <u>Total</u> Cubic Yard
New Smyrna Beach	R-172	-23.9	-22,100	-5.8	-5,400	-29.7	-27,500
New Smyrna Beach	R-173	-23.8	-22,000	2.4	2,200	-21.4	-19,800
New Smyrna Beach	R-174	-14.3	-13,800	9.3	8,900	-5.1	-4,900
New Smyrna Beach	R-175	-21.9	-20,900	3.1	3,000	-18.8	-17,900
New Smyrna Beach	R-176	-11.0	-10,800	0.2	200	-10.8	-10,600
New Smyrna Beach	T-177	-20.2	-20,900	6.3	6,500	-13.9	-14,400
New Smyrna Beach	R-178	-11.9	-11,000	-6.0	-5,500	-17.8	-16,500
New Smyrna Beach	R-179	-10.6	-9,200	0.9	800	-9.7	-8,400
New Smyrna Beach	R-180	-9.7	-9,100	-1.3	-1,200	-11.0	-10,300
New Smyrna Beach	R-181	-16.7	-16,200	-5.4	-5,200	-22.1	-21,400
New Smyrna Beach	R-182	-18.7	-18,400	0.5	500	-18.3	-17,900
New Smyrna Beach	R-183	-19.5	-20,000	-7.1	-7,300	-26.6	-27,300
New Smyrna Beach	R-184	-11.7	-10,600	0.2	100	-11.6	-10,400
New Smyrna Beach	R-185	-18.7	-6,500	20.4	7,100	1.7	600
Silver Sands and Bethune Beach	R-185	-18.7	-8,400	20.4	9,200	1.7	700
Silver Sands and Bethune Beach	R-186	-5.8	-5,400	-8.7	-8,200	-14.5	-13,600
Silver Sands and Bethune Beach	R-187	-18.6	-18,100	-15.0	-14,500	-33.6	-32,600
Silver Sands and Bethune Beach	T-188	-14.7	-13,600	8.6	8,000	-6.1	-5,700
Silver Sands and Bethune Beach	R-189	-8.6	-8,100	-7.2	-6,800	-15.8	-14,900
Silver Sands and Bethune Beach	T-190	-7.2	-5,500	-11.2	-8,500	-18.4	-14,000
Silver Sands and Bethune Beach	R-191	-10.8	-9,800	-15.5	-13,900	-26.3	-23,700
Silver Sands and Bethune Beach	R-192	-0.9	-1,000	9.8	10,800	8.9	9,800

Volusia County Beach Monitoring- 2022 Hurricane Season
Appendix B

Community	FDEP Reference Monument	Volume Change Above <u>MHW</u> Cubic Yard/Feet	Volume Change Above <u>MHW</u> Cubic Yard	Volume Change MHW to Profile <u>Extent</u> Cubic Yard/Feet	Volume Change MHW to Profile <u>Extent</u> Cubic Yard	Volume Change <u>Total</u> Cubic Yard/Feet	Volume Change <u>Total</u> Cubic Yard
Silver Sands and Bethune Beach	R-193	-2.2	-2,100	-8.6	-8,300	-10.8	-10,400
Silver Sands and Bethune Beach	T-194	1.8	1,600	-17.3	-15,400	-15.6	-13,800
Silver Sands and Bethune Beach	R-195	2.9	2,600	-15.6	-13,800	-12.7	-11,200
Silver Sands and Bethune Beach	T-196	-1.6	-1,500	-25.7	-24,800	-27.3	-26,400
Silver Sands and Bethune Beach	T-197	-1.0	-900	-32.9	-31,000	-33.9	-31,900
Silver Sands and Bethune Beach	R-198	1.5	1,400	-23.1	-21,800	-21.7	-20,400
Silver Sands and Bethune Beach	R-199	5.9	5,700	-10.4	-10,100	-4.5	-4,300
Silver Sands and Bethune Beach	R-200	1.8	1,800	-3.5	-3,400	-1.6	-1,600
Silver Sands and Bethune Beach	R-201	9.8	9,400	-12.4	-11,900	-2.6	-2,500
Silver Sands and Bethune Beach	R-202	1.8	1,600	-10.2	-8,900	-8.3	-7,300
Silver Sands and Bethune Beach	R-203	3.3	3,100	-6.9	-6,500	-3.6	-3,400
Silver Sands and Bethune Beach	R-204	1.7	1,700	-19.3	-18,800	-17.5	-17,100
Silver Sands and Bethune Beach	T-205	-3.9	-3,800	-10.3	-9,800	-14.2	-13,500
Silver Sands and Bethune Beach	R-206	-4.1	-4,100	-11.1	-11,000	-15.2	-15,100
Silver Sands and Bethune Beach	R-207	-5.6	-5,400	-19.1	-18,200	-24.8	-23,600
Silver Sands and Bethune Beach	T-208	-0.5	-300	-38.7	-18,300	-39.2	-18,600

Table B. 4 August 2022 to November 2022 Volume Change

Community	FDEP Reference Monument	Volume Change Above <u>MHW</u> Cubic Yard/Feet	Volume Change Above <u>MHW</u> Cubic Yard	Volume Change MHW to Profile <u>Extent</u> Cubic Yard/Feet	Volume Change MHW to Profile <u>Extent</u> Cubic Yard	Volume Change <u>Total</u> Cubic Yard/Feet	Volume Change <u>Total</u> Cubic Yard
North Peninsula	R-0	-7.3	-10,700	-14.2	-20,800	-21.5	-31,500
North Peninsula	R-3	-15.1	-36,500	-26.0	-63,200	-41.1	-99,700
North Peninsula	R-6	-4.9	-14,000	-30.9	-87,600	-35.8	-101,500
North Peninsula	R-9	-16.5	-47,200	-22.0	-62,700	-38.5	-109,900
North Peninsula	R-12	-2.7	-7,700	6.4	18,400	3.7	10,700
North Peninsula	R-15	-10.3	-24,400	-49.0	-116,700	-59.3	-141,100
Ormond-By-The-Sea	R-15	-10.3	-4,900	-49.0	-23,600	-59.3	-28,500
Ormond-By-The-Sea	R-18	-11.4	-32,000	-31.8	-89,500	-43.1	-121,500
Ormond-By-The-Sea	R-21	-6.4	-17,800	-6.7	-18,800	-13.1	-36,600
Ormond-By-The-Sea	R-24	-12.4	-34,800	-28.2	-79,500	-40.6	-114,300
Ormond-By-The-Sea	R-27	-7.9	-22,300	-15.8	-44,300	-23.7	-66,600
Ormond-By-The-Sea	R-30	-17.6	-49,400	-25.4	-71,300	-43.0	-120,600
Ormond-By-The-Sea	R-33	-11.9	-33,700	-36.1	-102,000	-48.0	-135,700
Ormond-By-The-Sea	T-36	-7.7	-21,500	-18.3	-51,300	-25.9	-72,800
Ormond-By-The-Sea	T-39	-3.9	-11,100	-0.7	-2,000	-4.6	-13,100
Ormond-By-The-Sea	R-42	-6.0	-16,100	-0.5	-1,400	-6.6	-17,500
Ormond-By-The-Sea	R-45	-6.9	-19,200	-0.2	-400	-7.1	-19,700
Ormond-By-The-Sea	R-48	-12.4	-6,900	-0.9	-500	-13.2	-7,300
Ormond Beach	R-48	-12.4	-29,700	-0.9	-2,100	-13.2	-31,800
Ormond Beach	R-51	-15.1	-43,200	-0.5	-1,300	-15.6	-44,500
Ormond Beach	R-54	-14.3	-40,500	-0.4	-1,200	-14.7	-41,700
Ormond Beach	R-57	-6.9	-19,300	-0.5	-1,400	-7.4	-20,600
Ormond Beach	R-60	-14.4	-40,900	-0.9	-2,500	-15.2	-43,300
Ormond Beach	R-63	-18.5	-54,000	-3.0	-8,700	-21.5	-62,700
Ormond Beach	T-66	-12.6	-29,500	-4.0	-9,300	-16.5	-38,800
Daytona Beach and Daytona Beach Shores	T-66	-12.6	-6,400	-4.0	-2,000	-16.5	-8,500
Daytona Beach and Daytona Beach Shores	T-69	-10.0	-27,900	-0.8	-2,200	-10.8	-30,100

Community	FDEP Reference Monument	Volume Change Above <u>MHW</u> Cubic Yard/Feet	Volume Change Above <u>MHW</u> Cubic Yard	Volume Change MHW to Profile <u>Extent</u> Cubic Yard/Feet	Volume Change MHW to Profile <u>Extent</u> Cubic Yard	Volume Change <u>Total</u> Cubic Yard/Feet	Volume Change <u>Total</u> Cubic Yard
Daytona Beach and Daytona Beach Shores	R-72	-11.6	-31,700	-4.1	-11,100	-15.7	-42,800
Daytona Beach and Daytona Beach Shores	R-75	-10.8	-30,600	-4.2	-12,000	-15.0	-42,500
Daytona Beach and Daytona Beach Shores	T-78	-12.8	-38,400	-2.9	-8,800	-15.7	-47,200
Daytona Beach and Daytona Beach Shores	T-81	-13.7	-40,200	-1.8	-5,300	-15.5	-45,500
Daytona Beach and Daytona Beach Shores	R-84	-29.3	-80,400	-3.7	-10,100	-33.0	-90,500
Daytona Beach and Daytona Beach Shores	R-87	-13.0	-35,300	-1.2	-3,300	-14.3	-38,600
Daytona Beach and Daytona Beach Shores	R-90	-8.0	-21,800	-2.4	-6,500	-10.4	-28,300
Daytona Beach and Daytona Beach Shores	R-93	-18.3	-51,000	-1.5	-4,300	-19.9	-55,200
Daytona Beach and Daytona Beach Shores	T-96	-12.2	-35,200	-1.6	-4,600	-13.8	-39,800
Daytona Beach and Daytona Beach Shores	T-99	-11.2	-31,900	-0.7	-2,100	-12.0	-34,000
Daytona Beach and Daytona Beach Shores	T-102	-15.0	-43,500	-3.3	-9,500	-18.2	-53,100
Daytona Beach and Daytona Beach Shores	R-105	-24.7	-72,500	-2.6	-7,600	-27.3	-80,100
Daytona Beach and Daytona Beach Shores	R-108	-12.8	-36,800	-1.7	-4,800	-14.4	-41,500

Volusia County Beach Monitoring- 2022 Hurricane Season
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Community	FDEP Reference Monument	Volume Change Above <u>MHW</u> Cubic Yard/Feet	Volume Change Above <u>MHW</u> Cubic Yard	Volume Change MHW to Profile <u>Extent</u> Cubic Yard/Feet	Volume Change MHW to Profile <u>Extent</u> Cubic Yard	Volume Change <u>Total</u> Cubic Yard/Feet	Volume Change <u>Total</u> Cubic Yard
Daytona Beach and Daytona Beach Shores	R-111	-19.8	-55,900	-23.6	-66,400	-43.4	-122,300
Daytona Beach and Daytona Beach Shores	T-114	-21.3	-60,700	-30.4	-86,500	-51.8	-147,300
Daytona Beach and Daytona Beach Shores	R-117	-21.5	-62,500	-40.3	-117,300	-61.8	-179,800
Daytona Beach and Daytona Beach Shores	R-120	-20.2	-56,300	-29.0	-80,700	-49.2	-137,000
Daytona Beach and Daytona Beach Shores	T-123	-18.9	-8,300	-23.4	-10,400	-42.3	-18,700
Wilbur-By-The-Sea	T-123	-18.9	-35,800	-23.4	-44,500	-42.3	-80,300
Wilbur-By-The-Sea	R-125	-19.9	-29,800	-39.2	-58,600	-59.2	-88,500
Wilbur-By-The-Sea	R-126	-32.4	-30,400	-25.7	-24,100	-58.1	-54,500
Wilbur-By-The-Sea	T-127	-18.5	-17,400	-45.9	-43,300	-64.4	-60,700
Wilbur-By-The-Sea	R-128	-20.2	-9,700	-37.9	-18,300	-58.1	-28,000
Ponce Inlet	R-128	-20.2	-9,500	-37.9	-17,900	-58.1	-27,400
Ponce Inlet	R-129	-26.2	-24,900	-40.4	-38,400	-66.6	-63,300
Ponce Inlet	R-130	-22.2	-21,700	-38.2	-37,400	-60.4	-59,200
Ponce Inlet	R-131	-50.5	-49,800	-40.6	-40,100	-91.1	-89,900
Ponce Inlet	R-132	-20.7	-19,700	-46.3	-44,000	-67.0	-63,600
Ponce Inlet	R-133	-47.7	-45,000	-49.2	-46,400	-96.9	-91,500
Ponce Inlet	R-134	-28.2	-26,700	-32.5	-30,800	-60.8	-57,600
Ponce Inlet	R-135	-27.5	-25,900	-34.0	-32,100	-61.4	-58,000
Ponce Inlet	R-136	-35.4	-33,700	-41.1	-39,200	-76.5	-72,900
Ponce Inlet	R-137	-35.3	-33,000	-43.1	-40,200	-78.4	-73,300

Volusia County Beach Monitoring- 2022 Hurricane Season
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Community	FDEP Reference Monument	Volume Change Above <u>MHW</u> Cubic Yard/Feet	Volume Change Above <u>MHW</u> Cubic Yard	Volume Change MHW to Profile <u>Extent</u> Cubic Yard/Feet	Volume Change MHW to Profile <u>Extent</u> Cubic Yard	Volume Change <u>Total</u> Cubic Yard/Feet	Volume Change <u>Total</u> Cubic Yard
Ponce Inlet	R-138	-28.4	-26,000	-31.6	-28,900	-60.0	-54,900
Ponce Inlet	R-139	-34.8	-30,100	-35.8	-30,900	-70.8	-61,100
Ponce Inlet	T-140	-27.8	-24,100	-43.5	-37,800	-71.2	-61,900
Ponce Inlet	T-141	-26.6	-26,000	-22.3	-21,800	-48.9	-47,900
Ponce Inlet	R-142	-26.5	-24,800	-38.6	-36,200	-65.3	-61,200
Ponce Inlet	R-143	-25.6	-23,500	-36.2	-33,300	-61.8	-56,800
Ponce Inlet	R-144	-22.0	-20,500	-28.5	-26,600	-50.5	-47,100
Ponce Inlet	R-145	-21.0	-19,300	-10.5	-9,700	-31.5	-29,000
Ponce Inlet	R-146	-29.4	-28,400	-17.8	-17,200	-47.2	-45,500
Ponce Inlet	T-147	-26.9	-23,900	-2.3	-2,000	-29.1	-25,900
Ponce Inlet	R-148	-18.9	-16,800	44.0	39,100	25.1	22,300
New Smyrna Beach	T-149	-44.6	-23,600	-50.9	-27,000	-95.5	-50,600
New Smyrna Beach	R-150	-26.6	-13,900	-45.4	-23,700	-72.0	-37,500
New Smyrna Beach	R-151	-21.1	-16,900	49.9	39,800	28.8	23,000
New Smyrna Beach	R-152	-31.9	-32,200	-1.8	-1,800	-33.7	-33,900
New Smyrna Beach	R-153	-18.6	-18,000	6.8	6,600	-11.8	-11,400
New Smyrna Beach	R-154	-13.1	-12,200	9.5	8,800	-3.6	-3,400
New Smyrna Beach	R-155	-14.1	-13,700	-8.8	-8,500	-22.9	-22,300
New Smyrna Beach	R-156	-14.3	-13,400	-23.5	-21,900	-37.8	-35,300
New Smyrna Beach	R-157	-19.4	-18,200	-29.2	-27,500	-48.6	-45,600
New Smyrna Beach	R-158	-16.0	-15,500	-44.6	-43,100	-60.7	-58,600
New Smyrna Beach	R-159	-17.9	-17,500	-18.2	-17,800	-36.1	-35,300
New Smyrna Beach	R-160	-20.3	-19,800	-22.7	-22,100	-43.0	-41,900
New Smyrna Beach	R-161	-27.3	-26,100	-38.3	-36,700	-65.6	-62,800
New Smyrna Beach	R-162	-14.8	-14,400	-21.3	-20,700	-36.1	-35,200

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New Smyrna Beach	R-163	-27.4	-26,700	-34.8	-33,800	-62.2	-60,500
New Smyrna Beach	T-164	-15.5	-14,800	-35.5	-33,900	-50.9	-48,700
New Smyrna Beach	R-165	-17.0	-17,200	-36.1	-36,500	-53.1	-53,800
New Smyrna Beach	R-166	-22.1	-22,600	-33.6	-34,200	-55.7	-56,800
New Smyrna Beach	R-167	-16.1	-14,500	-37.3	-33,700	-53.4	-48,100
New Smyrna Beach	R-168	-20.1	-18,000	-31.2	-28,000	-51.2	-46,000
New Smyrna Beach	T-169	-18.8	-18,700	-36.4	-36,200	-55.3	-54,900
New Smyrna Beach	R-170	-28.3	-41,600	-29.2	-43,000	-57.5	-84,500
New Smyrna Beach	R-172	-22.9	-53,900	-27.1	-63,900	-50.0	-117,800
New Smyrna Beach	R-175	-22.7	-66,100	-22.7	-66,300	-45.4	-132,400
New Smyrna Beach	R-178	-16.2	-46,200	-36.1	-102,900	-52.3	-149,100
New Smyrna Beach	R-181	-22.0	-63,000	-25.5	-73,000	-47.6	-136,000
New Smyrna Beach	R-184	-19.2	-42,900	-40.1	-89,500	-59.3	-132,400
Silver Sands and Bethune Beach	R-184	-19.2	-11,300	-40.1	-23,700	-59.3	-35,000
Silver Sands and Bethune Beach	R-187	-23.0	-62,400	-36.4	-98,600	-59.4	-161,100
Silver Sands and Bethune Beach	T-190	-14.7	-41,000	-25.1	-70,000	-39.7	-111,000
Silver Sands and Bethune Beach	R-193	-12.6	-34,700	-46.3	-127,700	-58.9	-162,400
Silver Sands and Bethune Beach	T-196	-4.1	-11,600	-37.4	-104,600	-41.6	-116,100
Silver Sands and Bethune Beach	R-199	-1.7	-4,900	-24.5	-70,400	-26.2	-75,200
Silver Sands and Bethune Beach	R-202	-5.8	-16,400	-12.3	-35,000	-18.1	-51,300
Silver Sands and Bethune Beach	T-205	-4.9	-14,000	-12.3	-35,100	-17.3	-49,100
Silver Sands and Bethune Beach	T-208	-0.8	-1,500	-54.7	-106,100	-55.4	-107,700

Appendix C

Profile Plots