

APPENDIX F: TOP 20 NETWORK ANALYSIS SCORING RESULTS FOR EACH SHOCK/STRESSOR



## SCTPO Transportation Resiliency Master Plan: Top 20 Network Analysis Scoring Results For Flood

**Table Description:** This table summarizes the vulnerability of each corridor to shocks or stressors and the criticality of each corridor.

**How Corridors are Ordered:** By descending Severity of Impact of Flood. Then by descending % Flood. Then by descending Total Score. Then alphabetically by Road Name and Limits.

**Scores:**

Vulnerable Score = 2\*# of Shocks or Stressors with Severe Impact + 1\*# of Shocks or Stressors with Minimal Impact

Vulnerable Population Score = 2, if the corridor serves a Most Vulnerable Population. Vulnerable Population Score = 1, if the corridor serves a Vulnerable Population

Critical Score = 2\*(Most Critical Function + Most Critical Local Asset) + 1\*(Critical Function + Critical Local Asset) + 1\*(Critical Regional Asset)

Total Score = Vulnerable Score + (Vulnerable Population Score if Vulnerable Score > 0) \* Critical Score

**Shocks or Stressors:** Flooding (Flood), Sea Level Rise (SLR), Storm Surge, Fire, Shoreline Erosion (Shrl. Erosn.). Severe Impact (Sev. Imp.) has >0.25 mi of the corridor impacted. Minimal Impact (Min. Imp.) has >0 mi but <0.25 mi of the corridor impacted.

**Notes:** The *For What is the Corridor Vulnerable* columns report the summarized extent of impact to the corridor by each shock or stressor. The *How Much of the Corridor is Vulnerable* columns report the portion of the corridor that is impacted by each shock or stressor. % *Vuln.* reports the portion of the corridor that is vulnerable to at least 1 shock or stressor. Some shocks or stressors have overlapping impacts so this number may be less than the sum of the impacts of each shock or stressor. See methodology document for further information on each criteria.

Corridors with "How Much of the Corridor is Vulnerable?" marked with an asterisk (\*) had feedback provided from Task Force members that indicated the corridor is impacted by the noted shock or stressor. These corridors are recorded as being "Severely Impacted" by the noted shock or stressor. The Vulnerable Score and Total Score are adjusted accordingly.

The City Name and Area columns are intended to be used to locate the relative position of the corridor. They do not indicate the maintaining agency of the corridor.

Corridor Summary										For What is the Corridor Vulnerable?					How Much of the Corridor is Vulnerable?					Serves a Vulnerable Population?	Is the Corridor Critical?			
Corridor ID	Road Name	Limits	Area	City	Length (mi)	Vuln. Score	Vuln. Pop.	Critical Score	Total Score	Flood	SLR	Storm Surge	Fire	Shrl. Eros.	% Vuln.	% Flood	% SLR	% Surge	% Fire	% Shrl. Eros.	Serves Vuln. Pop.	Serves a Crit. Func.	Serves a Crit. Local Asset	Serves a Crit. Reg. Asset
158	MINTON RD	EMERSON DR - US 192 (NEW HAVEN AVE)	SOUTH	UNINCORPORATED	3.2	2	1	4	12	Sev. Imp.	No Imp.	No Imp.	No Imp.	No Imp.	0%	*	0%	0%	0%	0%	Vuln.	Most Crit.	Most Crit.	-
1	BARNA AVE	SR 405 (COLUMBIA BLVD) - PARK AVE	NORTH	TITUSVILLE	4.8	3	2	2	10	Sev. Imp.	No Imp.	No Imp.	Min. Imp.	No Imp.	28%	*	0%	0%	28%	0%	Most Vuln.	-	Most Crit.	-
30	SR 405 (SOUTH ST)	SINGLETON AVE - US 1	NORTH	TITUSVILLE	2.0	3	1	2	8	Sev. Imp.	No Imp.	No Imp.	Min. Imp.	No Imp.	19%	*	0%	0%	19%	0%	Vuln.	-	Most Crit.	-
29	SR 405 (SOUTH ST)	SR 50 (CHENEY HWY) - FOX LAKE RD	NORTH	TITUSVILLE	2.1	4	-	2	8	Sev. Imp.	No Imp.	No Imp.	Sev. Imp.	No Imp.	100%	*	0%	0%	100%	0%	-	Crit.	Crit.	-
142	JOHN RODES BLVD	US 192 (NEW HAVEN AVE) - SR 518 (EAU GALLIE BLVD)	SOUTH	MELBOURNE	2.9	3	-	2	6	Sev. Imp.	No Imp.	No Imp.	Min. Imp.	No Imp.	42%	*	0%	0%	42%	0%	-	Most Crit.	-	-
5013	SR 405 (SOUTH ST)	FOX LAKE RD - SINGLETON AVE	NORTH	TITUSVILLE	1.3	3	-	1	3	Sev. Imp.	No Imp.	No Imp.	Min. Imp.	No Imp.	100%	*	0%	0%	100%	0%	-	Crit.	-	-
173	ST JOHNS HERITAGE PKWY	MALABAR RD - EMERSON DR	SOUTH	PALM BAY	2.3	3	-	1	3	Sev. Imp.	No Imp.	No Imp.	Min. Imp.	No Imp.	100%	100%	0%	0%	99%	0%	-	-	Crit.	-
5050	ST JOHNS HERITAGE PKWY	US 192 - I-95	SOUTH	UNINCORPORATED	1.7	4	-	-	-	Sev. Imp.	No Imp.	No Imp.	Sev. Imp.	No Imp.	100%	98%	0%	0%	100%	0%	-	-	-	-
5025	N BANANA RIVER DR	SR 520 (MERRITT ISLAND CSWY) - SYKES CREEK PKWY	BARRIER ISLANDS	UNINCORPORATED	1.0	8	-	1	8	Sev. Imp.	Sev. Imp.	Sev. Imp.	Min. Imp.	Min. Imp.	100%	92%	100%	100%	27%	13%	-	Crit.	-	-
1028	ROCKLEDGE DR	US 1 (ROCKLEDGE DR) - COQUINA RD	CENTRAL	UNINCORPORATED	1.9	8	-	-	-	Sev. Imp.	Sev. Imp.	Sev. Imp.	No Imp.	Sev. Imp.	96%	78%	96%	78%	0%	87%	-	-	-	-
382	BEACH RD	A MAX BREWER MEMORIAL PKWY - SAMUEL C PHILLIPS PKWY	BARRIER ISLANDS	UNINCORPORATED	8.8	8	-	-	-	Sev. Imp.	Sev. Imp.	Sev. Imp.	Sev. Imp.	No Imp.	100%	64%	91%	76%	100%	0%	-	-	-	-
210	SR A1A (ATLANTIC AVE)	SR 404 (PINEDA CSWY) - S END OF ONE WAY PAIRS	BARRIER ISLANDS	UNINCORPORATED	4.9	8	-	4	32	Sev. Imp.	Sev. Imp.	Sev. Imp.	No Imp.	Sev. Imp.	86%	62%	52%	10%	0%	19%	-	Most Crit.	Crit.	Yes
49	N BANANA RIVER DR/MORNINGSIDE DR/BANANA RIVER DR	SYKES CREEK PKWY - SR 528 (BENNETT CSWY)	BARRIER ISLANDS	UNINCORPORATED	2.7	9	-	-	-	Sev. Imp.	Sev. Imp.	Sev. Imp.	Min. Imp.	Sev. Imp.	100%	59%	97%	96%	66%	28%	-	-	-	-
165	SR 404 (PINEDA CSWY)	LAKE ANDREW DR - WICKHAM RD	SOUTH	UNINCORPORATED	3.2	3	1	4	16	Sev. Imp.	No Imp.	No Imp.	Min. Imp.	No Imp.	94%	57%	0%	0%	82%	0%	Vuln.	Most Crit.	Crit.	Yes
201	OCEAN BEACH BLVD	WAKULLA LN - YOUNG AVE	BARRIER ISLANDS	COCOA BEACH	1.3	6	-	2	12	Sev. Imp.	Sev. Imp.	Sev. Imp.	No Imp.	No Imp.	81%	52%	81%	26%	0%	0%	-	-	Most Crit.	-
1030	ST JOHNS HERITAGE PKWY	BABCOCK ST - MICCO RD	SOUTH	PALM BAY	4.0	4	-	-	-	Sev. Imp.	No Imp.	No Imp.	Sev. Imp.	No Imp.	100%	52%	0%	0%	100%	0%	-	-	-	-
5019	CANAVERAL GROVES BLVD	GRISSOM PKWY - US 1	NORTH	UNINCORPORATED	1.7	2	-	1	2	Sev. Imp.	No Imp.	No Imp.	No Imp.	No Imp.	51%	51%	0%	0%	0%	0%	-	-	Crit.	-
203	RIDGEWOOD AVE	YOUNG AVE - CENTRAL BLVD	BARRIER ISLANDS	CAPE CANAVERAL	1.9	6	1	2	14	Sev. Imp.	Sev. Imp.	Sev. Imp.	No Imp.	No Imp.	100%	51%	100%	56%	0%	0%	Vuln.	-	Most Crit.	-
3000	I-95	INDIAN RIVER CO - ST JOHNS HERITAGE PKWY	SOUTH	PALM BAY	5.8	4	-	2	8	Sev. Imp.	No Imp.	No Imp.	Sev. Imp.	No Imp.	100%	48%	0%	0%	100%	0%	-	Most Crit.	-	-
6	DEERING PKWY	I-95 - US 1	NORTH	UNINCORPORATED	0.9	3	-	-	-	Sev. Imp.	No Imp.	No Imp.	Min. Imp.	No Imp.	100%	46%	0%	0%	100%	0%	-	-	-	-

# SCTPO Transportation Resiliency Master Plan: Top 20 Network Analysis Scoring Results For Storm Surge

**Table Description:** This table summarizes the vulnerability of each corridor to shocks or stressors and the criticality of each corridor.

**How Corridors are Ordered:** By descending Severity of Impact of Storm Surge. Then by descending % Surge. Then by descending Total Score. Then alphabetically by Road Name and Limits.

**Scores:**

Vulnerable Score = 2\*# of Shocks or Stressors with Severe Impact + 1\*# of Shocks or Stressors with Minimal Impact

Vulnerable Population Score = 2, if the corridor serves a Most Vulnerable Population. Vulnerable Population Score = 1, if the corridor serves a Vulnerable Population

Critical Score = 2\*(Most Critical Function + Most Critical Local Asset) + 1\*(Critical Function + Critical Local Asset) + 1\*(Critical Regional Asset)

Total Score = Vulnerable Score + (Vulnerable Population Score if Vulnerable Score > 0) \* Critical Score

**Shocks or Stressors:** Flooding (Flood), Sea Level Rise (SLR), Storm Surge, Fire, Shoreline Erosion (Shrl. Erosn.). Severe Impact (Sev. Imp.) has >0.25 mi of the corridor impacted. Minimal Impact (Min. Imp.) has >0 mi but <0.25 mi of the corridor impacted.

**Notes:** The *For What is the Corridor Vulnerable* columns report the summarized extent of impact to the corridor by each shock or stressor. The *How Much of the Corridor is Vulnerable* columns report the portion of the corridor that is impacted by each shock or stressor. % *Vuln.* reports the portion of the corridor that is vulnerable to at least 1 shock or stressor. Some shocks or stressors have overlapping impacts so this number may be less than the sum of the impacts of each shock or stressor. See methodology document for further information on each criteria.

Corridors with "How Much of the Corridor is Vulnerable?" marked with an asterisk (\*) had feedback provided from Task Force members that indicated the corridor is impacted by the noted shock or stressor. These corridors are recorded as being "Severely Impacted" by the noted shock or stressor. The Vulnerable Score and Total Score are adjusted accordingly.

The City Name and Area columns are intended to be used to locate the relative position of the corridor. They do not indicate the maintaining agency of the corridor.

Corridor Summary										For What is the Corridor Vulnerable?					How Much of the Corridor is Vulnerable?					Serves a Vulnerable Population?	Is the Corridor Critical?			
Corridor ID	Road Name	Limits	Area	City	Length (mi)	Vuln. Score	Vuln. Pop.	Critical Score	Total Score	Flood	SLR	Storm Surge	Fire	Shrl. Eros.	% Vuln.	% Flood	% SLR	% Surge	% Fire	% Shrl. Eros.	Serves Vuln. Pop.	Serves a Crit. Func.	Serves a Crit. Local Asset	Serves a Crit. Reg. Asset
62	SYKES CREEK PKWY	FORTENBERRY RD - SR 520 (MERRITT ISLAND CSWY)	BARRIER ISLANDS	UNINCORPORATED	0.4	5	-	3	15	Min. Imp.	Sev. Imp.	Sev. Imp.	No Imp.	No Imp.	100%	9%	100%	100%	0%	0%	-	Crit.	Most Crit.	-
63	SYKES CREEK PKWY	SR 520 (MERRITT ISLAND CSWY) - MERRITT AVE	BARRIER ISLANDS	UNINCORPORATED	0.3	5	-	3	15	No Imp.	Sev. Imp.	Sev. Imp.	No Imp.	Min. Imp.	100%	0%	100%	100%	0%	10%	-	Crit.	Most Crit.	-
363	BANANA RIVER BLVD	ST LUCIE LN - SR 520 (COCOA BEACH CAUSEWAY)	BARRIER ISLANDS	COCOA BEACH	0.3	5	-	2	10	Min. Imp.	Sev. Imp.	Sev. Imp.	No Imp.	No Imp.	100%	10%	100%	100%	0%	0%	-	-	Most Crit.	-
5022	PLUMOSA ST	SR 520 (MERRITT ISLAND CSWY) - MERRITT AVE	BARRIER ISLANDS	UNINCORPORATED	0.3	5	-	2	10	Min. Imp.	Sev. Imp.	Sev. Imp.	No Imp.	No Imp.	100%	42%	100%	100%	0%	0%	-	-	Most Crit.	-
5025	N BANANA RIVER DR	SR 520 (MERRITT ISLAND CSWY) - SYKES CREEK PKWY	BARRIER ISLANDS	UNINCORPORATED	1.0	8	-	1	8	Sev. Imp.	Sev. Imp.	Sev. Imp.	Min. Imp.	Min. Imp.	100%	92%	100%	100%	27%	13%	-	Crit.	-	-
205	SR 513 (S PATRICK DR )	SR 518 (EAU GALLIE BLVD) - BANANA RIVER DR	BARRIER ISLANDS	INDIAN HARBOUR BEACH	0.9	4	-	2	8	No Imp.	Sev. Imp.	Sev. Imp.	No Imp.	No Imp.	100%	0%	100%	100%	0%	0%	-	-	Most Crit.	-
206	SR 513 (S PATRICK DR )	BANANA RIVER DR - SR 404 (PINEDA CSWY)	BARRIER ISLANDS	SATELLITE BEACH	4.4	6	2	2	16	Sev. Imp.	Sev. Imp.	Sev. Imp.	No Imp.	No Imp.	100%	13%	99%	99%	0%	0%	Most Vuln.	-	Most Crit.	-
383	SR 406 (A MAX BREWER MEMORIAL PKWY)	A MAX BREWER MEMORIAL PKWY - KENNEDY PKWY	BARRIER ISLANDS	TITUSVILLE	6.0	9	-	2	18	Min. Imp.	Sev. Imp.	Sev. Imp.	Sev. Imp.	Sev. Imp.	100%	2%	100%	98%	91%	9%	-	Crit.	-	Yes
49	N BANANA RIVER DR/MORNINGSIDE DR/BANANA RIVER DR	SYKES CREEK PKWY - SR 528 (BENNETT CSWY)	BARRIER ISLANDS	UNINCORPORATED	2.7	9	-	-	-	Sev. Imp.	Sev. Imp.	Sev. Imp.	Min. Imp.	Sev. Imp.	100%	59%	97%	96%	66%	28%	-	-	-	-
1031	ROCKY POINT RD	US 1 - US 1	SOUTH	MALABAR	1.4	7	-	-	-	No Imp.	Sev. Imp.	Sev. Imp.	Min. Imp.	Sev. Imp.	100%	0%	94%	93%	52%	95%	-	-	-	-
368	JACKSON AVE	SR 513 (S PATRICK DR) - SR A1A	BARRIER ISLANDS	SATELLITE BEACH	0.8	4	-	1	4	No Imp.	Sev. Imp.	Sev. Imp.	No Imp.	No Imp.	94%	0%	94%	92%	0%	0%	-	-	Crit.	-
1011	SR A1A (BENNETT CSWY)	SR 528 (BEACHLINE EXPWY) - GEORGE J KING BLVD	BARRIER ISLANDS	UNINCORPORATED	0.7	3	-	4	12	No Imp.	No Imp.	Sev. Imp.	No Imp.	Min. Imp.	88%	0%	0%	88%	0%	2%	-	Most Crit.	Crit.	Yes
381	KENNEDY PKWY	BEACH RD - A MAX BREWER MEMORIAL PKWY	BARRIER ISLANDS	UNINCORPORATED	3.2	8	-	-	-	Sev. Imp.	Sev. Imp.	Sev. Imp.	Sev. Imp.	No Imp.	100%	8%	100%	84%	100%	0%	-	-	-	-
215	SR A1A (ASTRONAUT BLVD)	N ATLANTIC AVE - GEORGE J KING BLVD	BARRIER ISLANDS	CAPE CANAVERAL	1.3	4	1	5	25	No Imp.	Sev. Imp.	Sev. Imp.	No Imp.	No Imp.	83%	0%	83%	83%	0%	0%	Vuln.	Most Crit.	Most Crit.	Yes
217	SR 520 (COCOA BEACH CSWY)	MILFORD POINT DR/BANANA RIVER DR - SR A1A (ATLANTIC AVE)	BARRIER ISLANDS	COCOA BEACH	3.3	8	-	5	40	Sev. Imp.	Sev. Imp.	Sev. Imp.	No Imp.	Sev. Imp.	100%	41%	84%	82%	0%	81%	-	Most Crit.	Most Crit.	Yes
48	NEWFOUND HARBOR DR	MORRIS MANOR - SR 520 (COCOA BEACH CSWY)	BARRIER ISLANDS	UNINCORPORATED	3.8	7	-	-	-	Sev. Imp.	Sev. Imp.	Sev. Imp.	No Imp.	Min. Imp.	98%	14%	98%	82%	0%	3%	-	-	-	-
369	MINUTEMEN CSWY	TOM WARRINER BLVD - SR A1A (S ATLANTIC AVE)	BARRIER ISLANDS	COCOA BEACH	1.5	6	-	2	12	No Imp.	Sev. Imp.	Sev. Imp.	No Imp.	Sev. Imp.	99%	0%	99%	81%	0%	53%	-	-	Most Crit.	-
64	SYKES CREEK PKWY	MERRITT AVE - N BANANA RIVER DR	BARRIER ISLANDS	UNINCORPORATED	1.5	8	-	3	24	Min. Imp.	Sev. Imp.	Sev. Imp.	Min. Imp.	Sev. Imp.	100%	4%	88%	81%	93%	46%	-	Crit.	Most Crit.	-
59	SPACE COMMERCE WAY	KENNEDY PKWY - SR 405 (NASA CSWY)	BARRIER ISLANDS	UNINCORPORATED	2.7	6	-	3	18	No Imp.	Sev. Imp.	Sev. Imp.	Sev. Imp.	No Imp.	100%	0%	99%	80%	100%	0%	-	Most Crit.	-	Yes
149	MAIN ST	RIVERVIEW DR - US 1	SOUTH	UNINCORPORATED	0.4	6	-	1	6	Min. Imp.	Min. Imp.	Sev. Imp.	Min. Imp.	Min. Imp.	100%	15%	45%	78%	100%	48%	-	-	Crit.	-

# SCTPO Transportation Resiliency Master Plan: Top 20 Network Analysis Scoring Results For Sea Level Rise

**Table Description:** This table summarizes the vulnerability of each corridor to shocks or stressors and the criticality of each corridor.

**How Corridors are Ordered:** By descending Severity of Impact of SLR. Then by descending % SLR. Then by descending Total Score. Then alphabetically by Road Name and Limits.

**Scores:**

Vulnerable Score = 2\*# of Shocks or Stressors with Severe Impact + 1\*# of Shocks or Stressors with Minimal Impact

Vulnerable Population Score = 2, if the corridor serves a Most Vulnerable Population. Vulnerable Population Score = 1, if the corridor serves a Vulnerable Population

Critical Score = 2\*(Most Critical Function + Most Critical Local Asset) + 1\*(Critical Function + Critical Local Asset) + 1\*(Critical Regional Asset)

Total Score = Vulnerable Score + (Vulnerable Population Score if Vulnerable Score > 0) \* Critical Score

**Shocks or Stressors:** Flooding (Flood), Sea Level Rise (SLR), Storm Surge, Fire, Shoreline Erosion (Shrl. Erosn.). Severe Impact (Sev. Imp.) has >0.25 mi of the corridor impacted. Minimal Impact (Min. Imp.) has >0 mi but <0.25 mi of the corridor impacted.

**Notes:** The *For What is the Corridor Vulnerable* columns report the summarized extent of impact to the corridor by each shock or stressor. The *How Much of the Corridor is Vulnerable* columns report the portion of the corridor that is impacted by each shock or stressor. % *Vuln.* reports the portion of the corridor that is vulnerable to at least 1 shock or stressor. Some shocks or stressors have overlapping impacts so this number may be less than the sum of the impacts of each shock or stressor. See methodology document for further information on each criteria.

Corridors with "How Much of the Corridor is Vulnerable?" marked with an asterisk (\*) had feedback provided from Task Force members that indicated the corridor is impacted by the noted shock or stressor. These corridors are recorded as being "Severely Impacted" by the noted shock or stressor. The Vulnerable Score and Total Score are adjusted accordingly.

The City Name and Area columns are intended to be used to locate the relative position of the corridor. They do not indicate the maintaining agency of the corridor.

Corridor Summary										For What is the Corridor Vulnerable?					How Much of the Corridor is Vulnerable?					Serves a Vulnerable Population?	Is the Corridor Critical?			
Corridor ID	Road Name	Limits	Area	City	Length (mi)	Vuln. Score	Vuln. Pop.	Critical Score	Total Score	Flood	SLR	Storm Surge	Fire	Shrl. Eros.	% Vuln.	% Flood	% SLR	% Surge	% Fire	% Shrl. Eros.	Serves Vuln. Pop.	Serves a Crit. Func.	Serves a Crit. Local Asset	Serves a Crit. Reg. Asset
2051	SR 3 (COURTENAY PKWY)	TROPICAL TR - SPACE COMMERCE WAY	BARRIER ISLANDS	UNINCORPORATED	3.3	6	-	4	24	No Imp.	Sev. Imp.	Sev. Imp.	Sev. Imp.	No Imp.	100%	0%	100%	30%	95%	0%	-	Most Crit.	Crit.	Yes
51	SR 3 (N COURTENAY PKWY)	HALL RD - N TROPICAL TR	BARRIER ISLANDS	UNINCORPORATED	2.7	5	-	4	20	No Imp.	Sev. Imp.	Min. Imp.	Sev. Imp.	No Imp.	100%	0%	100%	5%	100%	0%	-	Most Crit.	Crit.	Yes
383	SR 406 (A MAX BREWER MEMORIAL PKWY)	A MAX BREWER MEMORIAL PKWY - KENNEDY PKWY	BARRIER ISLANDS	TITUSVILLE	6.0	9	-	2	18	Min. Imp.	Sev. Imp.	Sev. Imp.	Sev. Imp.	Sev. Imp.	100%	2%	100%	98%	91%	9%	-	Crit.	-	Yes
204	RIVERSIDE DR	US 192 (FIFTH AVE) - SR 518 (EAU GALLIE BLVD)	BARRIER ISLANDS	INDIALANTIC	3.8	7	1	2	16	Min. Imp.	Sev. Imp.	Sev. Imp.	No Imp.	Sev. Imp.	100%	6%	100%	48%	0%	7%	Vuln.	-	Most Crit.	-
62	SYKES CREEK PKWY	FORTENBERRY RD - SR 520 (MERRITT ISLAND CSWY)	BARRIER ISLANDS	UNINCORPORATED	0.4	5	-	3	15	Min. Imp.	Sev. Imp.	Sev. Imp.	No Imp.	No Imp.	100%	9%	100%	100%	0%	0%	-	Crit.	Most Crit.	-
63	SYKES CREEK PKWY	SR 520 (MERRITT ISLAND CSWY) - MERRITT AVE	BARRIER ISLANDS	UNINCORPORATED	0.3	5	-	3	15	No Imp.	Sev. Imp.	Sev. Imp.	No Imp.	Min. Imp.	100%	0%	100%	100%	0%	10%	-	Crit.	Most Crit.	-
363	BANANA RIVER BLVD	ST LUCIE LN - SR 520 (COCOA BEACH CAUSEWAY)	BARRIER ISLANDS	COCOA BEACH	0.3	5	-	2	10	Min. Imp.	Sev. Imp.	Sev. Imp.	No Imp.	No Imp.	100%	10%	100%	100%	0%	0%	-	-	Most Crit.	-
364	BREVARD AVE	SR A1A (ORLANDO AVE) - 4TH ST	BARRIER ISLANDS	COCOA BEACH	2.0	5	-	2	10	Min. Imp.	Sev. Imp.	Sev. Imp.	No Imp.	No Imp.	100%	10%	100%	67%	0%	0%	-	-	Most Crit.	-
5022	PLUMOSA ST	SR 520 (MERRITT ISLAND CSWY) - MERRITT AVE	BARRIER ISLANDS	UNINCORPORATED	0.3	5	-	2	10	Min. Imp.	Sev. Imp.	Sev. Imp.	No Imp.	No Imp.	100%	42%	100%	100%	0%	0%	-	-	Most Crit.	-
5025	N BANANA RIVER DR	SR 520 (MERRITT ISLAND CSWY) - SYKES CREEK PKWY	BARRIER ISLANDS	UNINCORPORATED	1.0	8	-	1	8	Sev. Imp.	Sev. Imp.	Sev. Imp.	Min. Imp.	Min. Imp.	100%	92%	100%	100%	27%	13%	-	Crit.	-	-
54	PLUMOSA ST	CONE RD - SR 520 (MERRITT ISLAND CSWY)	BARRIER ISLANDS	UNINCORPORATED	0.7	4	-	2	8	No Imp.	Sev. Imp.	Sev. Imp.	No Imp.	No Imp.	100%	0%	100%	40%	0%	0%	-	-	Most Crit.	-
205	SR 513 (S PATRICK DR)	SR 518 (EAU GALLIE BLVD) - BANANA RIVER DR	BARRIER ISLANDS	INDIAN HARBOUR BEACH	0.9	4	-	2	8	No Imp.	Sev. Imp.	Sev. Imp.	No Imp.	No Imp.	100%	0%	100%	100%	0%	0%	-	-	Most Crit.	-
46	MERRITT AVE	N TROPICAL TR - SR 3 (N COURTENAY PKWY)	BARRIER ISLANDS	UNINCORPORATED	0.4	3	-	1	3	No Imp.	Sev. Imp.	Min. Imp.	No Imp.	No Imp.	100%	0%	100%	50%	0%	0%	-	-	Crit.	-
381	KENNEDY PKWY	BEACH RD - A MAX BREWER MEMORIAL PKWY	BARRIER ISLANDS	UNINCORPORATED	3.2	8	-	-	-	Sev. Imp.	Sev. Imp.	Sev. Imp.	Sev. Imp.	No Imp.	100%	8%	100%	84%	100%	0%	-	-	-	-
212	SR A1A (ORLANDO AVE) (SB ONLY)	N END OF ONE WAY PAIRS - S END OF ONE WAY PAIRS	BARRIER ISLANDS	COCOA BEACH	3.0	4	-	5	20	No Imp.	Sev. Imp.	Sev. Imp.	No Imp.	No Imp.	100%	0%	100%	53%	0%	0%	-	Most Crit.	Most Crit.	Yes
375	SHEARWATER DR	SR 513 (S PATRICK DR) - SR A1A	BARRIER ISLANDS	SATELLITE BEACH	0.7	3	-	-	-	No Imp.	Sev. Imp.	Min. Imp.	No Imp.	No Imp.	100%	0%	100%	16%	0%	0%	-	-	-	-
203	RIDGEWOOD AVE	YOUNG AVE - CENTRAL BLVD	BARRIER ISLANDS	CAPE CANAVERAL	1.9	6	1	2	14	Sev. Imp.	Sev. Imp.	Sev. Imp.	No Imp.	No Imp.	100%	51%	100%	56%	0%	0%	Vuln.	-	Most Crit.	-
59	SPACE COMMERCE WAY	KENNEDY PKWY - SR 405 (NASA CSWY)	BARRIER ISLANDS	UNINCORPORATED	2.7	6	-	3	18	No Imp.	Sev. Imp.	Sev. Imp.	Sev. Imp.	No Imp.	100%	0%	99%	80%	100%	0%	-	Most Crit.	-	Yes
206	SR 513 (S PATRICK DR)	BANANA RIVER DR - SR 404 (PINEDA CSWY)	BARRIER ISLANDS	SATELLITE BEACH	4.4	6	2	2	16	Sev. Imp.	Sev. Imp.	Sev. Imp.	No Imp.	No Imp.	100%	13%	99%	99%	0%	0%	Most Vuln.	-	Most Crit.	-
369	MINUTEMEN CSWY	TOM WARRINER BLVD - SR A1A (S ATLANTIC AVE)	BARRIER ISLANDS	COCOA BEACH	1.5	6	-	2	12	No Imp.	Sev. Imp.	Sev. Imp.	No Imp.	Sev. Imp.	99%	0%	99%	81%	0%	53%	-	-	Most Crit.	-



# SCTPO Transportation Resiliency Master Plan: Top 20 Network Analysis Scoring Results For Fire

**Table Description:** This table summarizes the vulnerability of each corridor to shocks or stressors and the criticality of each corridor.

**How Corridors are Ordered:** By descending Severity of Impact of Fire. Then by descending % Fire. Then by descending Total Score. Then alphabetically by Road Name and Limits.

**Scores:**

Vulnerable Score = 2\*# of Shocks or Stressors with Severe Impact + 1\*# of Shocks or Stressors with Minimal Impact

Vulnerable Population Score = 2, if the corridor serves a Most Vulnerable Population. Vulnerable Population Score = 1, if the corridor serves a Vulnerable Population

Critical Score = 2\*(Most Critical Function + Most Critical Local Asset) + 1\*(Critical Function + Critical Local Asset) + 1\*(Critical Regional Asset)

Total Score = Vulnerable Score + (Vulnerable Population Score if Vulnerable Score > 0) \* Critical Score

**Shocks or Stressors:** Flooding (Flood), Sea Level Rise (SLR), Storm Surge, Fire, Shoreline Erosion (Shrl. Erosn.). Severe Impact (Sev. Imp.) has >0.25 mi of the corridor impacted. Minimal Impact (Min. Imp.) has >0 mi but <0.25 mi of the corridor impacted.

**Notes:** The *For What is the Corridor Vulnerable* columns report the summarized extent of impact to the corridor by each shock or stressor. The *How Much of the Corridor is Vulnerable* columns report the portion of the corridor that is impacted by each shock or stressor. % *Vuln.* reports the portion of the corridor that is vulnerable to at least 1 shock or stressor. Some shocks or stressors have overlapping impacts so this number may be less than the sum of the impacts of each shock or stressor. See methodology document for further information on each criteria.

Corridors with "How Much of the Corridor is Vulnerable?" marked with an asterisk (\*) had feedback provided from Task Force members that indicated the corridor is impacted by the noted shock or stressor. These corridors are recorded as being "Severely Impacted" by the noted shock or stressor. The Vulnerable Score and Total Score are adjusted accordingly.

The City Name and Area columns are intended to be used to locate the relative position of the corridor. They do not indicate the maintaining agency of the corridor.

Corridor Summary										For What is the Corridor Vulnerable?					How Much of the Corridor is Vulnerable?					Serves a Vulnerable Population?	Is the Corridor Critical?			
Corridor ID	Road Name	Limits	Area	City	Length (mi)	Vuln. Score	Vuln. Pop.	Critical Score	Total Score	Flood	SLR	Storm Surge	Fire	Shrl. Eros.	% Vuln.	% Flood	% SLR	% Surge	% Fire	% Shrl. Eros.	Serves Vuln. Pop.	Serves a Crit. Func.	Serves a Crit. Local Asset	Serves a Crit. Reg. Asset
5	DAIRY RD	CARPENTER RD - SINGLETON AVE	NORTH	UNINCORPORATED	0.9	3	-	-	-	Min. Imp.	No Imp.	No Imp.	Sev. Imp.	No Imp.	32%	8%	0%	0%	*	0%	-	-	-	-
51	SR 3 (N COURTENAY PKWY)	HALL RD - N TROPICAL TR	BARRIER ISLANDS	UNINCORPORATED	2.7	5	-	4	20	No Imp.	Sev. Imp.	Min. Imp.	Sev. Imp.	No Imp.	100%	0%	100%	5%	100%	0%	-	Most Crit.	Crit.	Yes
59	SPACE COMMERCE WAY	KENNEDY PKWY - SR 405 (NASA CSWY)	BARRIER ISLANDS	UNINCORPORATED	2.7	6	-	3	18	No Imp.	Sev. Imp.	Sev. Imp.	Sev. Imp.	No Imp.	100%	0%	99%	80%	100%	0%	-	Most Crit.	-	Yes
26	SR 50 (CHENEY HWY)	ORANGE CO - I-95	NORTH	TITUSVILLE	5.2	4	-	3	12	Min. Imp.	Min. Imp.	No Imp.	Sev. Imp.	No Imp.	100%	0%	0%	0%	100%	0%	-	Most Crit.	Crit.	-
2034	SR 407 (CHALLENGER MEMORIAL PKWY)	SR 528 (BEACHLINE EXPWY) - I-95	NORTH	TITUSVILLE	4.3	3	2	2	10	Min. Imp.	No Imp.	No Imp.	Sev. Imp.	No Imp.	100%	1%	0%	0%	100%	0%	Most Vuln.	Most Crit.	-	-
3000	I-95	INDIAN RIVER CO - ST JOHNS HERITAGE PKWY	SOUTH	PALM BAY	5.8	4	-	2	8	Sev. Imp.	No Imp.	No Imp.	Sev. Imp.	No Imp.	100%	48%	0%	0%	100%	0%	-	Most Crit.	-	-
2156	MICCO RD	BABCOCK ST - ST JOHNS HERITAGE PKWY	SOUTH	UNINCORPORATED	2.6	4	-	2	8	Sev. Imp.	No Imp.	No Imp.	Sev. Imp.	No Imp.	100%	13%	0%	0%	100%	0%	-	Most Crit.	-	-
29	SR 405 (SOUTH ST)	SR 50 (CHENEY HWY) - FOX LAKE RD	NORTH	TITUSVILLE	2.1	4	-	2	8	Sev. Imp.	No Imp.	No Imp.	Sev. Imp.	No Imp.	100%	*	0%	0%	100%	0%	-	Crit.	Crit.	-
24	SR 46	VOLUSIA CO - FAWN LAKE BLVD	NORTH	UNINCORPORATED	4.5	4	-	2	8	Min. Imp.	Min. Imp.	No Imp.	Sev. Imp.	No Imp.	100%	0%	0%	0%	100%	0%	-	Most Crit.	-	-
2092	SR 520 (KING ST)	ORANGE CO - SR 524	CENTRAL	UNINCORPORATED	2.9	3	1	2	8	Min. Imp.	No Imp.	No Imp.	Sev. Imp.	No Imp.	100%	0%	0%	0%	100%	0%	Vuln.	Most Crit.	-	-
2114	BABCOCK ST	INDIAN RIVER CO - MICCO RD	SOUTH	GRANT VALKARIA	3.9	3	-	2	6	Min. Imp.	No Imp.	No Imp.	Sev. Imp.	No Imp.	100%	1%	0%	0%	100%	0%	-	Most Crit.	-	-
114	BABCOCK ST	MICCO RD - GRANT RD	SOUTH	GRANT VALKARIA	3.5	3	-	2	6	Min. Imp.	No Imp.	No Imp.	Sev. Imp.	No Imp.	100%	6%	0%	0%	100%	0%	-	Most Crit.	-	-
1005	I-95	SR 407 (CHALLENGER MEMORIAL PKWY) - SR 50 (CHENEY HWY)	NORTH	UNINCORPORATED	3.7	2	-	3	6	No Imp.	No Imp.	No Imp.	Sev. Imp.	No Imp.	100%	0%	0%	0%	100%	0%	-	Most Crit.	Crit.	-
382	BEACH RD	A MAX BREWER MEMORIAL PKWY - SAMUEL C PHILLIPS PKWY	BARRIER ISLANDS	UNINCORPORATED	8.8	8	-	-	-	Sev. Imp.	Sev. Imp.	Sev. Imp.	Sev. Imp.	No Imp.	100%	64%	91%	76%	100%	0%	-	-	-	-
13	GOLFVIEW AVE	PORT ST JOHN PKWY - FAY BLVD	NORTH	UNINCORPORATED	0.5	2	-	-	-	No Imp.	No Imp.	No Imp.	Sev. Imp.	No Imp.	100%	0%	0%	0%	100%	0%	-	-	-	-
381	KENNEDY PKWY	BEACH RD - A MAX BREWER MEMORIAL PKWY	BARRIER ISLANDS	UNINCORPORATED	3.2	8	-	-	-	Sev. Imp.	Sev. Imp.	Sev. Imp.	Sev. Imp.	No Imp.	100%	8%	100%	84%	100%	0%	-	-	-	-
1030	ST JOHNS HERITAGE PKWY	BABCOCK ST - MICCO RD	SOUTH	PALM BAY	4.0	4	-	-	-	Sev. Imp.	No Imp.	No Imp.	Sev. Imp.	No Imp.	100%	52%	0%	0%	100%	0%	-	-	-	-
5050	ST JOHNS HERITAGE PKWY	US 192 - I-95	SOUTH	UNINCORPORATED	1.7	4	-	-	-	Sev. Imp.	No Imp.	No Imp.	Sev. Imp.	No Imp.	100%	98%	0%	0%	100%	0%	-	-	-	-
3003	I-95	SR 519 (FISKE BLVD) - SR 520 (KING ST)	CENTRAL	UNINCORPORATED	5.7	2	2	2	8	No Imp.	No Imp.	No Imp.	Sev. Imp.	No Imp.	99%	0%	0%	0%	99%	0%	Most Vuln.	Most Crit.	-	-
5009	I-95	SR 50 (CHENEY HWY) - SR 406 (GARDEN ST)	NORTH	TITUSVILLE	4.4	2	-	3	6	No Imp.	No Imp.	No Imp.	Sev. Imp.	No Imp.	98%	0%	0%	0%	98%	0%	-	Most Crit.	Crit.	-

## SCTPO Transportation Resiliency Master Plan: Top 20 Network Analysis Scoring Results For Shoreline Erosion

**Table Description:** This table summarizes the vulnerability of each corridor to shocks or stressors and the criticality of each corridor.

**How Corridors are Ordered:** By descending Severity of Impact of Shoreline Erosion. Then by descending % Shoreline Erosion. Then by descending Total Score. Then alphabetically by Road Name and Limits.

**Scores:**

Vulnerable Score = 2\*# of Shocks or Stressors with Severe Impact + 1\*# of Shocks or Stressors with Minimal Impact

Vulnerable Population Score = 2, if the corridor serves a Most Vulnerable Population. Vulnerable Population Score = 1, if the corridor serves a Vulnerable Population

Critical Score = 2\*(Most Critical Function + Most Critical Local Asset) + 1\*(Critical Function + Critical Local Asset) + 1\*(Critical Regional Asset)

Total Score = Vulnerable Score + (Vulnerable Population Score if Vulnerable Score > 0) \* Critical Score

**Shocks or Stressors:** Flooding (Flood), Sea Level Rise (SLR), Storm Surge, Fire, Shoreline Erosion (Shrl. Erosn.). Severe Impact (Sev. Imp.) has >0.25 mi of the corridor impacted. Minimal Impact (Min. Imp.) has >0 mi but <0.25 mi of the corridor impacted.

**Notes:** The *For What is the Corridor Vulnerable* columns report the summarized extent of impact to the corridor by each shock or stressor. The *How Much of the Corridor is Vulnerable* columns report the portion of the corridor that is impacted by each shock or stressor. % *Vuln.* reports the portion of the corridor that is vulnerable to at least 1 shock or stressor. Some shocks or stressors have overlapping impacts so this number may be less than the sum of the impacts of each shock or stressor. See methodology document for further information on each criteria.

Corridors with "How Much of the Corridor is Vulnerable?" marked with an asterisk (\*) had feedback provided from Task Force members that indicated the corridor is impacted by the noted shock or stressor. These corridors are recorded as being "Severely Impacted" by the noted shock or stressor. The Vulnerable Score and Total Score are adjusted accordingly.

The City Name and Area columns are intended to be used to locate the relative position of the corridor. They do not indicate the maintaining agency of the corridor.

Corridor Summary										For What is the Corridor Vulnerable?					How Much of the Corridor is Vulnerable?					Serves a Vulnerable Population?	Is the Corridor Critical?			
Corridor ID	Road Name	Limits	Area	City	Length (mi)	Vuln. Score	Vuln. Pop.	Critical Score	Total Score	Flood	SLR	Storm Surge	Fire	Shrl. Eros.	% Vuln.	% Flood	% SLR	% Surge	% Fire	% Shrl. Eros.	Serves Vuln. Pop.	Serves a Crit. Func.	Serves a Crit. Local Asset	Serves a Crit. Reg. Asset
4028	ROCKLEDGE DR	PARK AVE - BOUGAINVILLEA DR	CENTRAL	ROCKLEDGE	1.7	5	-	2	10	Min. Imp.	Sev. Imp.	No Imp.	No Imp.	Sev. Imp.	100%	1%	60%	0%	0%	100%	-	-	Most Crit.	-
3028	ROCKLEDGE DR	COQUINA RD - PARK AVE	CENTRAL	ROCKLEDGE	2.1	4	-	-	-	No Imp.	Sev. Imp.	No Imp.	No Imp.	Sev. Imp.	100%	0%	61%	0%	0%	100%	-	-	-	-
4030	INDIAN RIVER DR	SR 520 (KING ST) - DIXON BLVD	CENTRAL	COCOA	1.9	8	2	2	20	Sev. Imp.	Sev. Imp.	Sev. Imp.	No Imp.	Sev. Imp.	99%	13%	26%	13%	0%	97%	Most Vuln.	-	Most Crit.	-
1031	ROCKY POINT RD	US 1 - US 1	SOUTH	MALABAR	1.4	7	-	-	-	No Imp.	Sev. Imp.	Sev. Imp.	Min. Imp.	Sev. Imp.	100%	0%	94%	93%	52%	95%	-	-	-	-
5026	INDIAN RIVER DR	DIXON BLVD - CITY POINT RD	CENTRAL	COCOA	1.9	8	1	-	-	Sev. Imp.	Sev. Imp.	Sev. Imp.	No Imp.	Sev. Imp.	92%	27%	31%	25%	0%	92%	Vuln.	-	-	-
4033	INDIAN RIVER DR	CITY POINT RD - US 1	NORTH	COCOA	3.1	8	-	3	24	Sev. Imp.	Sev. Imp.	Sev. Imp.	No Imp.	Sev. Imp.	94%	43%	69%	28%	0%	90%	-	Crit.	Most Crit.	-
1028	ROCKLEDGE DR	US 1 (ROCKLEDGE DR) - COQUINA RD	CENTRAL	UNINCORPORATED	1.9	8	-	-	-	Sev. Imp.	Sev. Imp.	Sev. Imp.	No Imp.	Sev. Imp.	96%	78%	96%	78%	0%	87%	-	-	-	-
57	S TROPICAL TR	SR 513 (S PATRICK DR) - SR 404 (PINEDA CSWY)	BARRIER ISLANDS	INDIAN HARBOUR BEACH	5.0	8	2	2	20	Sev. Imp.	Sev. Imp.	Sev. Imp.	No Imp.	Sev. Imp.	95%	34%	77%	73%	0%	83%	Most Vuln.	-	Most Crit.	-
217	SR 520 (COCOA BEACH CSWY)	MILFORD POINT DR/BANANA RIVER DR - SR A1A (ATLANTIC AVE)	BARRIER ISLANDS	COCOA BEACH	3.3	8	-	5	40	Sev. Imp.	Sev. Imp.	Sev. Imp.	No Imp.	Sev. Imp.	100%	41%	84%	82%	0%	81%	-	Most Crit.	Most Crit.	Yes
178	US 1	INDIAN RIVER CO - VALKARIA RD	SOUTH	MALABAR	8.2	7	1	4	32	No Imp.	Sev. Imp.	Sev. Imp.	Min. Imp.	Sev. Imp.	100%	0%	61%	65%	21%	80%	Vuln.	Most Crit.	Most Crit.	-
179	US 1 (DIXIE HWY)	MALABAR RD - RJ CONLAN BLVD	SOUTH	MALABAR	3.8	6	1	2	14	No Imp.	Sev. Imp.	Sev. Imp.	No Imp.	Sev. Imp.	82%	0%	12%	11%	0%	79%	Vuln.	Most Crit.	-	-
2055	S COURTENAY PKWY/TROPICAL TR	SR 404 (PINEDA CSWY) - TROPICAL TR	BARRIER ISLANDS	UNINCORPORATED	6.0	7	-	-	-	Min. Imp.	Sev. Imp.	Sev. Imp.	No Imp.	Sev. Imp.	97%	3%	87%	57%	0%	79%	-	-	-	-
4029	ROCKLEDGE DR	BOUGAINVILLEA DR - SR 520 (KING ST)	CENTRAL	COCOA	1.0	5	1	2	12	Min. Imp.	Sev. Imp.	No Imp.	No Imp.	Sev. Imp.	74%	2%	71%	0%	0%	70%	Vuln.	-	Most Crit.	-
181	US 1 (HARBOR CITY BLVD)	US 192 (STRAWBRIDGE AVE) - SARNO RD	SOUTH	MELBOURNE	3.5	4	2	4	24	Min. Imp.	No Imp.	Min. Imp.	No Imp.	Sev. Imp.	58%	1%	0%	1%	0%	58%	Most Vuln.	Most Crit.	Most Crit.	-
2178	US 1	VALKARIA RD - SR 514 (MALABAR RD)	SOUTH	MALABAR	3.1	8	-	2	16	Min. Imp.	Sev. Imp.	Sev. Imp.	Min. Imp.	Sev. Imp.	100%	1%	26%	25%	84%	56%	-	Most Crit.	-	-
33	SR 406 (A MAX BREWER MEMORIAL PKWY)	US 1 (WASHINGTON AVE) - SR 406 (A MAX BREWER MEMORIAL PKWY)	BARRIER ISLANDS	TITUSVILLE	1.2	8	-	4	32	Sev. Imp.	Sev. Imp.	Sev. Imp.	No Imp.	Sev. Imp.	100%	30%	69%	27%	0%	55%	-	Crit.	Most Crit.	Yes
218	US 192 (STRAWBRIDGE AVE/MELBOURNE CSWY)	NEW HAVEN AVE - SR A1A (MIRAMAR AVE)	BARRIER ISLANDS	UNINCORPORATED	2.2	8	1	5	45	Sev. Imp.	Sev. Imp.	Sev. Imp.	No Imp.	Sev. Imp.	85%	26%	51%	39%	0%	55%	Vuln.	Most Crit.	Most Crit.	Yes
369	MINUTEMEN CSWY	TOM WARRINER BLVD - SR A1A (S ATLANTIC AVE)	BARRIER ISLANDS	COCOA BEACH	1.5	6	-	2	12	No Imp.	Sev. Imp.	Sev. Imp.	No Imp.	Sev. Imp.	99%	0%	99%	81%	0%	53%	-	-	Most Crit.	-
36	US 1	SR 50 (CHENEY HWY) - GRACE ST	NORTH	TITUSVILLE	3.0	4	2	2	12	No Imp.	Sev. Imp.	No Imp.	No Imp.	Sev. Imp.	58%	0%	25%	0%	0%	48%	Most Vuln.	Most Crit.	-	-
64	SYKES CREEK PKWY	MERRITT AVE - N BANANA RIVER DR	BARRIER ISLANDS	UNINCORPORATED	1.5	8	-	3	24	Min. Imp.	Sev. Imp.	Sev. Imp.	Min. Imp.	Sev. Imp.	100%	4%	88%	81%	93%	46%	-	Crit.	Most Crit.	-