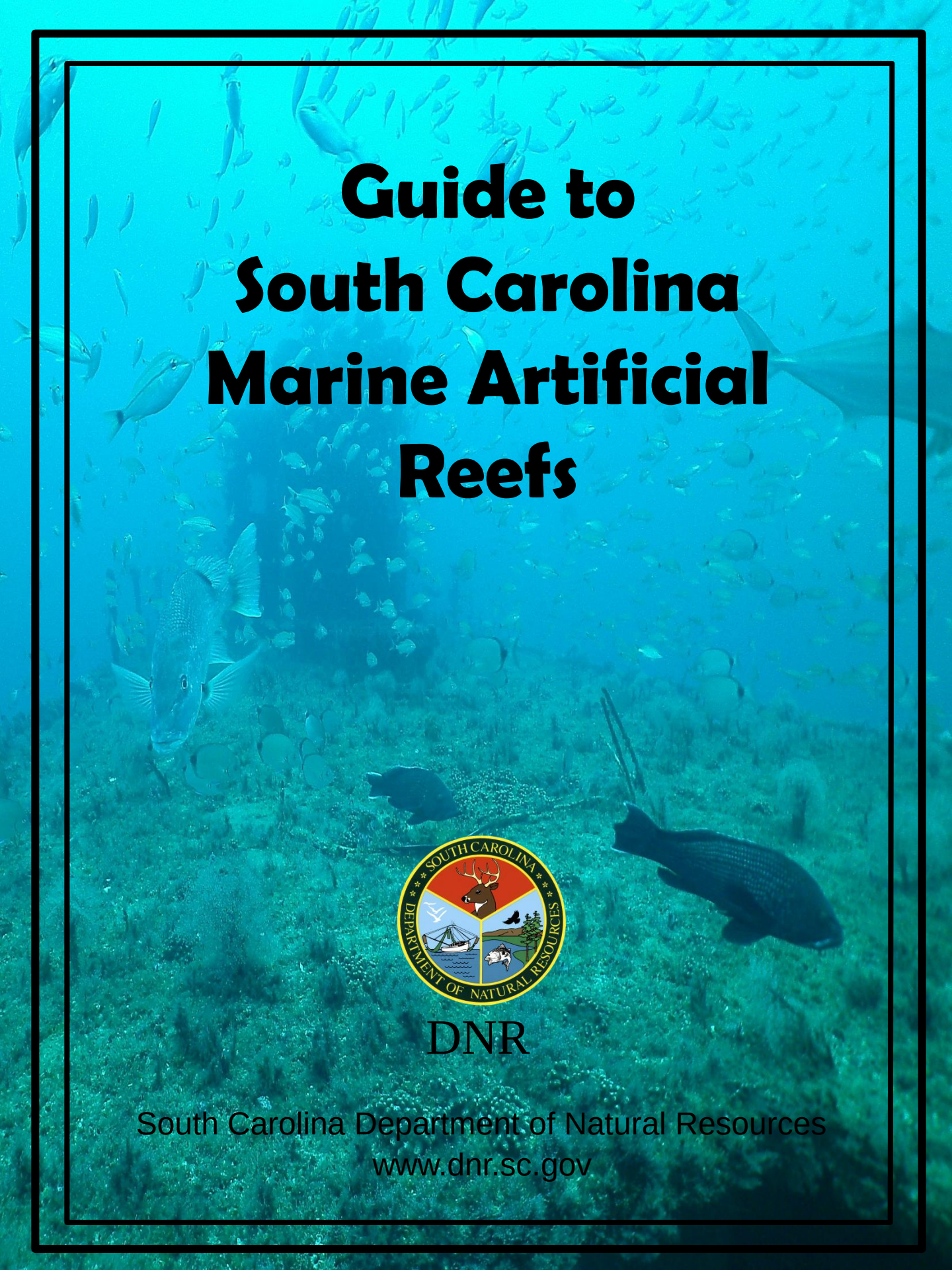
Guide to South Carolina Marine Artificial Reefs



DNR

South Carolina Department of Natural Resources
www.dnr.sc.gov

South Carolina's Marine Artificial Reef Program, managed by the Marine Resources Division of the Department of Natural Resources (SCDNR), continues to grow and prosper throughout the estuarine and offshore waters of our state. With more productive habitat created each year, recreational anglers and divers are able to continue to enjoy these activities while the resources themselves, marine finfish, are able to find new areas in which to live and spawn generation after generation. South Carolina artificial reef sites are constructed from a variety of materials including specially designed concrete and steel structures, ships and tugboats, barges, even army tanks and subway cars. When durable materials such as these are placed in the marine environment their surfaces are rapidly colonized, and eventually completely covered, by a wide variety of sessile organisms including algae, barnacles, corals, sponges, hydroids, bryozoans and marine worms. These organisms become the foundation of the reef community and the base of the food web which is critical to later fishing success.





Other marine animals such as crabs, shrimp, starfish, sea urchins, amphipods and mollusks, as well as thousands of juvenile fish, are attracted to the structure for shelter and food. Large fish of interest to recreational anglers are soon recruited to the reef in numbers usually equal to or exceeding those found on naturally occurring "live bottom" areas. These fish are attracted to the reef for a number of reasons including shelter, food, spawning and the presence of a distinct physical orientation point in the otherwise flat, featureless environment. Many adult fish of interest to anglers occur on the reefs year-round, while others are only seasonal residents or short-term visitors.



Creation of artificial reefs off South Carolina is especially important to the development of our marine fisheries resources because of the relative lack of naturally occurring hard-bottom areas along our coast. Off of South Carolina the majority of the continental shelf is covered with sand several feet deep while only about 10 percent of the bottom has the appropriate geological makeup to allow for the formation of a reef community. This results in limited opportunities for anglers and divers and leads to

heavy utilization of some of the more well-known hard-bottom areas along the coast. The creation of artificial reefs reduces pressure on these areas allowing resources to recover and thrive while giving recreational sportsmen and women a wider range of areas to make use of. This, in turn, also creates a positive economic impact on coastal communities across the state.



A South Carolina Saltwater Recreational Fishing License is required for most individuals fishing on the State's marine artificial reefs other than those reefs adjacent to fishing piers. In addition, most of South Carolina's offshore artificial reefs are protected by federal regulations as Special Management Zones (SMZ's) which limits fishing gear to hand-held hook-and-line gear or spearfishing gear without powerheads.

Despite their apparent degree of productivity, artificial reefs do not represent a limitless resource that can be exploited at ever-increasing rates without severe consequences. Most of these reef sites are relatively small and support a finite number of fish that can be harvested during any given season. They should be treated like any other natural resource, with common sense and a desire to conserve them for the future.

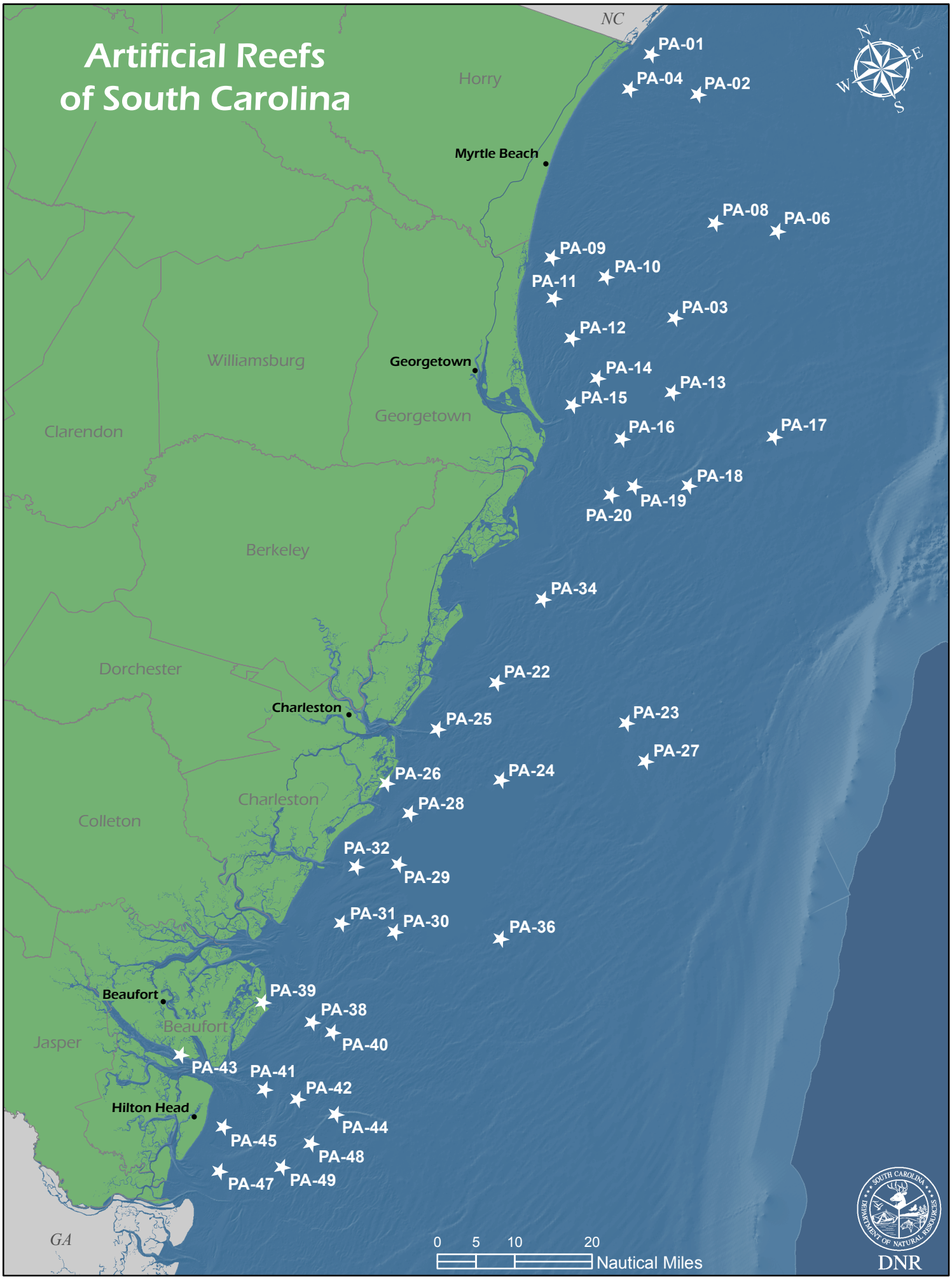
Many artificial reefs are constructed with the cooperation of organizations such as sportfishing and diving clubs, conservation organizations, other government agencies or even private individuals. Some agencies, like the South Carolina Army National Guard, have provided materials and services year after year facilitating numerous artificial reef construction activities all along the South Carolina coast. Individuals or organizations wishing to assist in supporting the development of artificial reefs off South Carolina's coast should contact the **Office of Fisheries Management at (843) 953-9303**.



Robert M. Martore,
Program Coordinator
September, 2015

South Carolina Saltwater Recreational Fishing License

SPORT FISH RESTORATION

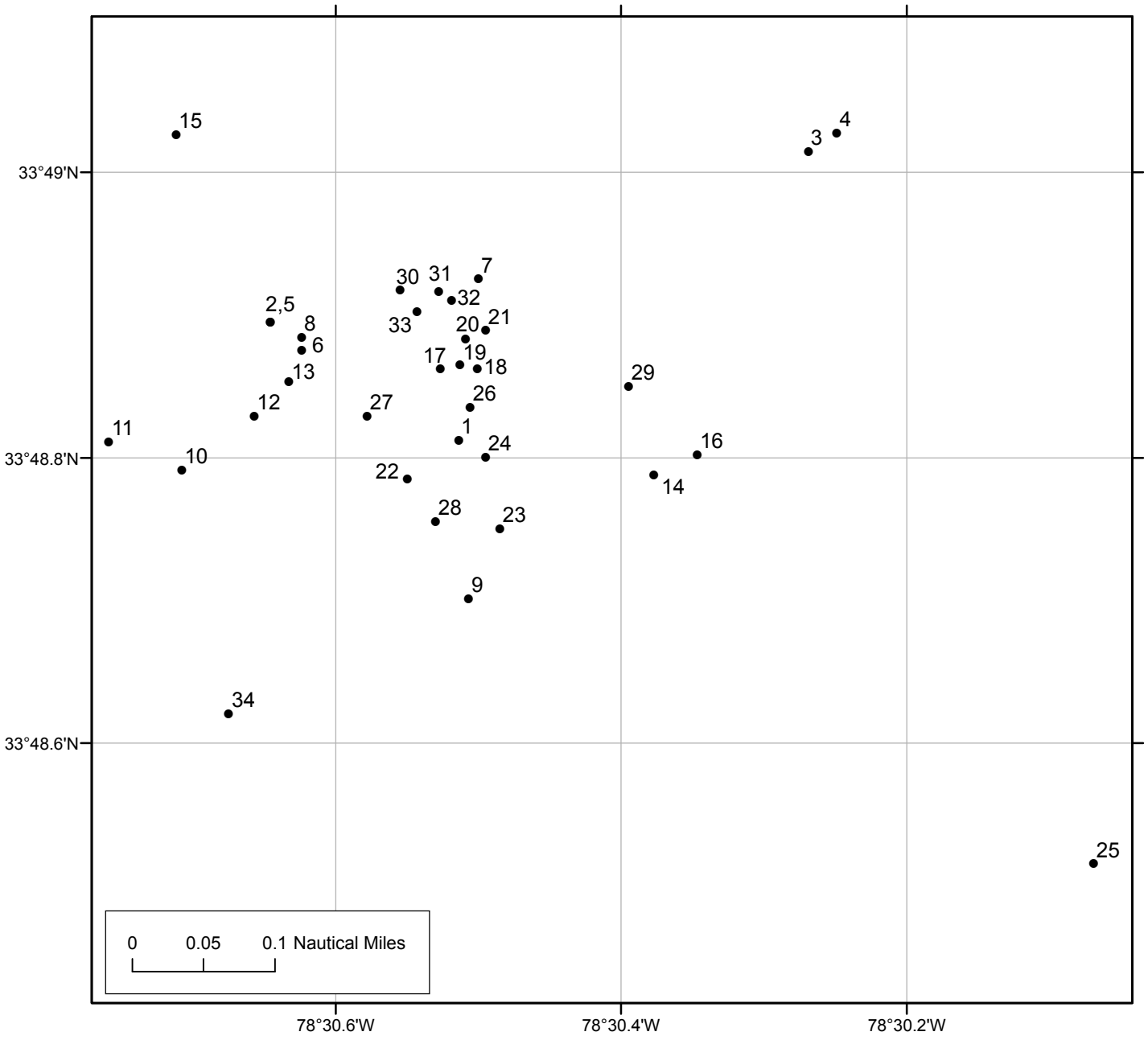

Artificial Reefs
of South Carolina
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Myrtle Beach
Williamsburg
Georgetown
Georgetown
Clarendon
Berkeley
Dorchester
Charleston
Charleston
Colleton
Beaufort
Beaufort
Jasper
Hilton Head
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PA-01

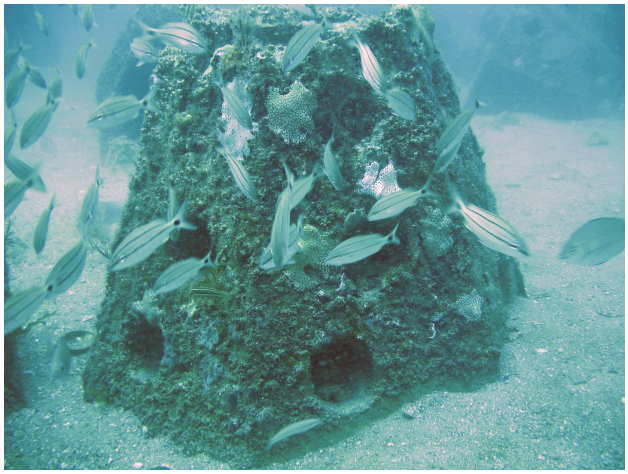
1 buoy marks reef, bearing 125° / 2.7 nm from south jetty at Little River - water depth 30'

Reef	Structure	Latitude	Longitude
		N	W
	1) Reef Buoy	33 48.812	078 30.514
Jim Caudle Reef	2) 80' Deck barge	33 48.895	078 30.646
	3) 80' Deck barge	33 49.014	078 30.269
	4) Bulk tanker	33 49.027	078 30.249
	5) 110' Deck barge	33 48.895	078 30.646
	6) 110' Deck barge	33 48.875	078 30.624
	7) Concrete rubble	33 48.925	078 30.500
	8) 110' Dredge barge (Orion)	33 48.884	078 30.624
	9) 100 Concrete cones	33 48.701	078 30.507
	10) Armored Personnel Carriers	33 48.791	078 30.708
	11) Armored Personnel Carriers	33 48.811	078 30.759
	12) Armored Personnel Carriers	33 48.829	078 30.657
	13) Armored Personnel Carriers	33 48.853	078 30.633
	14) 100' Deck barge	33 48.788	078 30.377
	15) 275 Concrete cones	33 49.026	078 30.712
	16) 110' Barge & culvert pipe	33 48.802	078 30.347
	17) Armored Personnel Carriers	33 48.862	078 30.527
	18) Armored Personnel Carriers	33 48.862	078 30.501
	19) Armored Personnel Carriers	33 48.865	078 30.513
	20) Armored Personnel Carriers	33 48.883	078 30.509
	21) Armored Personnel Carriers	33 48.889	078 30.495
	22) 50' Dredge barge	33 48.785	078 30.550
	23) 40' Deck barge	33 48.750	078 30.485
	24) 200 Concrete cones	33 48.800	078 30.495
	25) 175 Steel pup tents	33 48.515	078 30.069
	26) (8) 22' BK barges	33 48.835	078 30.506
	27) 55 TIC units	33 48.829	078 30.578
	28) 100 Ready Cones	33 48.755	078 30.530
	29) Concrete cones & pipes	33 48.850	078 30.395
	30) Armored Personnel Carriers	33 48.917	078 30.555
	31) Armored Personnel Carriers	33 48.916	078 30.528
	32) Armored Personnel Carriers	33 48.910	078 30.519
	33) Armored Personnel Carriers	33 48.902	078 30.543
	34) Loren Draper Memorial Cones	33 48.620	078 30.675

PA-01


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78°30.2'W





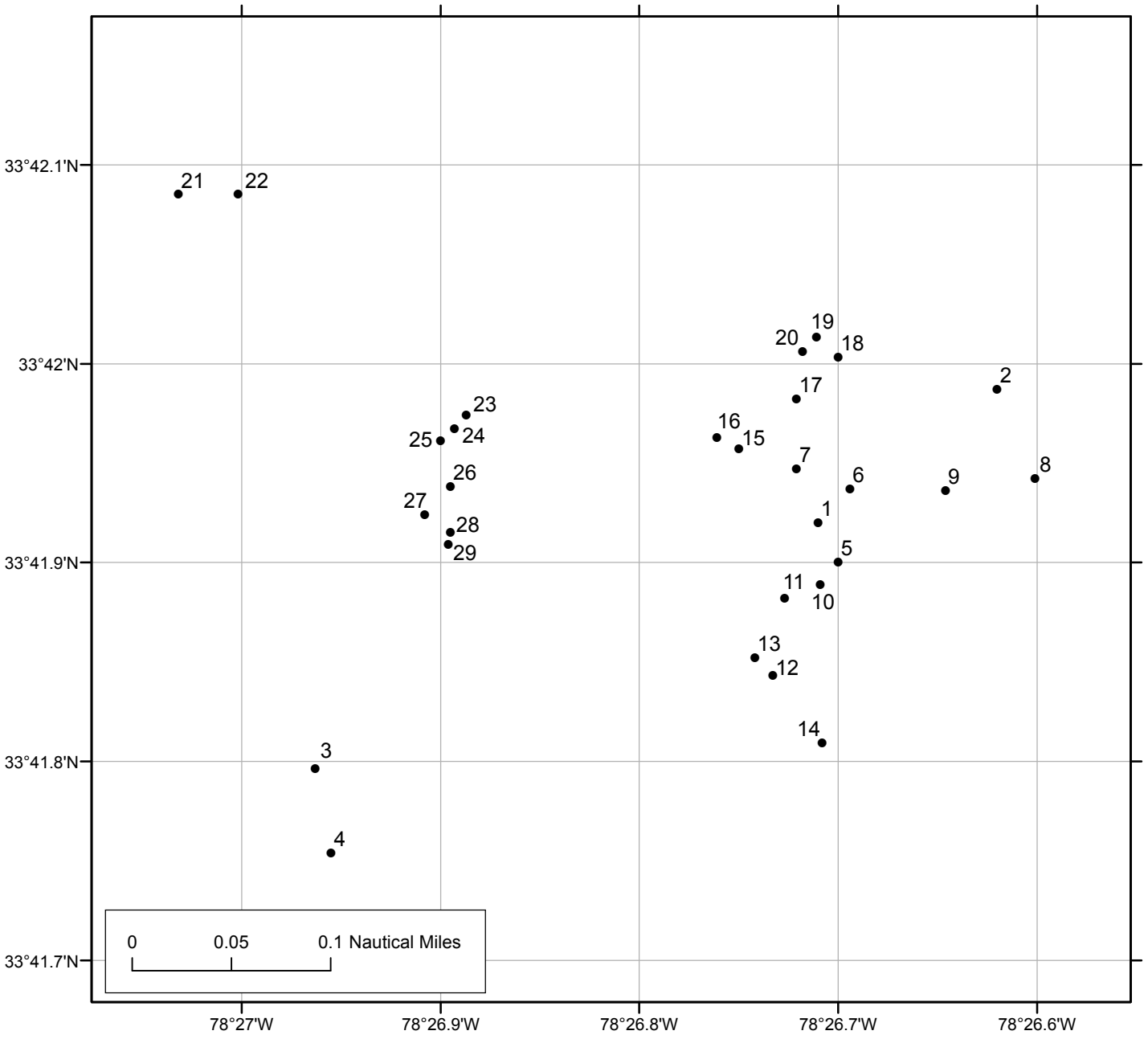
PA-02

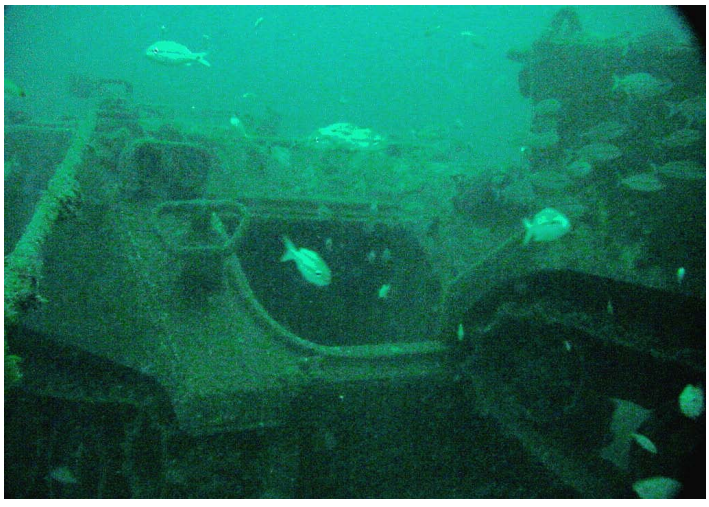
1 buoy marks reef, bearing 156° / 10.5 nm from Little River Inlet - water depth 60'

Reef	Structure	Latitude	Longitude
		N	W
	1) Reef Buoy	33 41.920	078 26.710
Little River Offshore Reef	2) Landing craft	33 41.987	078 26.620
	3) Landing craft	33 41.796	078 26.963
	4) Concrete culvert pipe	33 41.754	078 26.955
	5) Concrete rubble	33 41.900	078 26.700
	6) Army APCs*	33 41.937	078 26.694
	7) Army APCs	33 41.947	078 26.721
	8) 50' Tugboat	33 41.942	078 26.601
	9) Army APCs	33 41.936	078 26.646
	10) Army APCs	33 41.889	078 26.709
	11) Army APCs	33 41.882	078 26.727
	12) Army APCs	33 41.843	078 26.733
	13) Army APCs	33 41.852	078 26.742
	14) Army APCs	33 41.809	078 26.708
Barracuda Alley	15) Army APCs	33 41.957	078 26.750
	16) 150' Dive barge	33 41.963	078 26.761
	17) 120' Deck barge	33 41.982	078 26.721
	18) Army APCs	33 42.003	078 26.700
	19) Army APCs	33 42.013	078 26.711
	20) Army APCs	33 42.006	078 26.718
	21) 95' Tugboat	33 42.085	078 27.032
	22) Concrete culvert pipe	33 42.085	078 27.002
	23) Army APCs	33 41.974	078 26.887
	24) Army APCs	33 41.967	078 26.893
	25) Army APCs	33 41.961	078 26.900
	26) Army APCs	33 41.938	078 26.895
	27) Army APCs	33 41.924	078 26.908
	28) Army APCs	33 41.915	078 26.895
	29) Army APCs	33 41.909	078 26.896

* Armored Personnel Carriers

PA-02

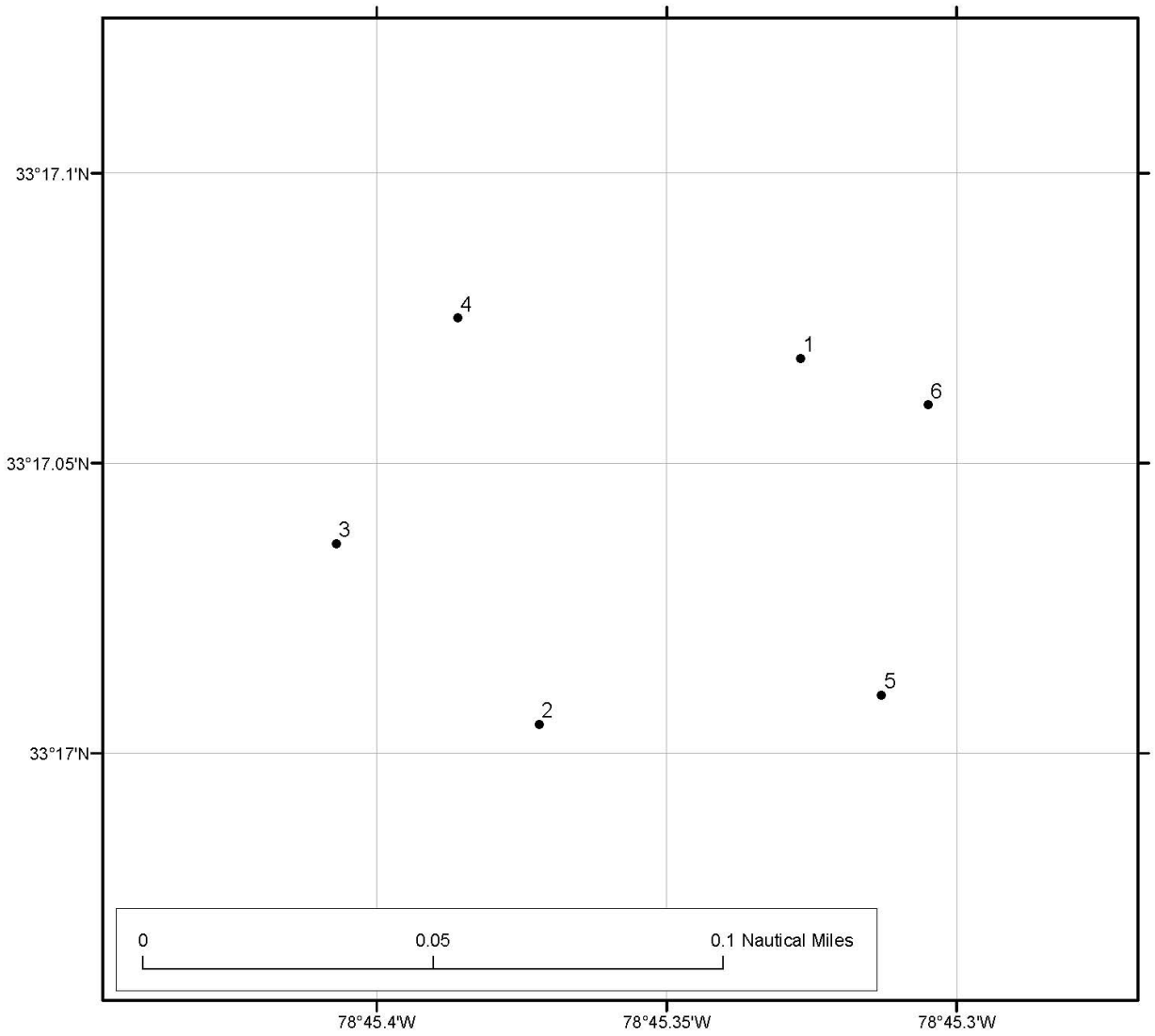

33°42.1'N
33°42'N
33°41.9'N
33°41.8'N
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PA-03

1 buoy marks reef, bearing 137° / 20 nm from south jetty at Murrels Inlet - water depth 60'

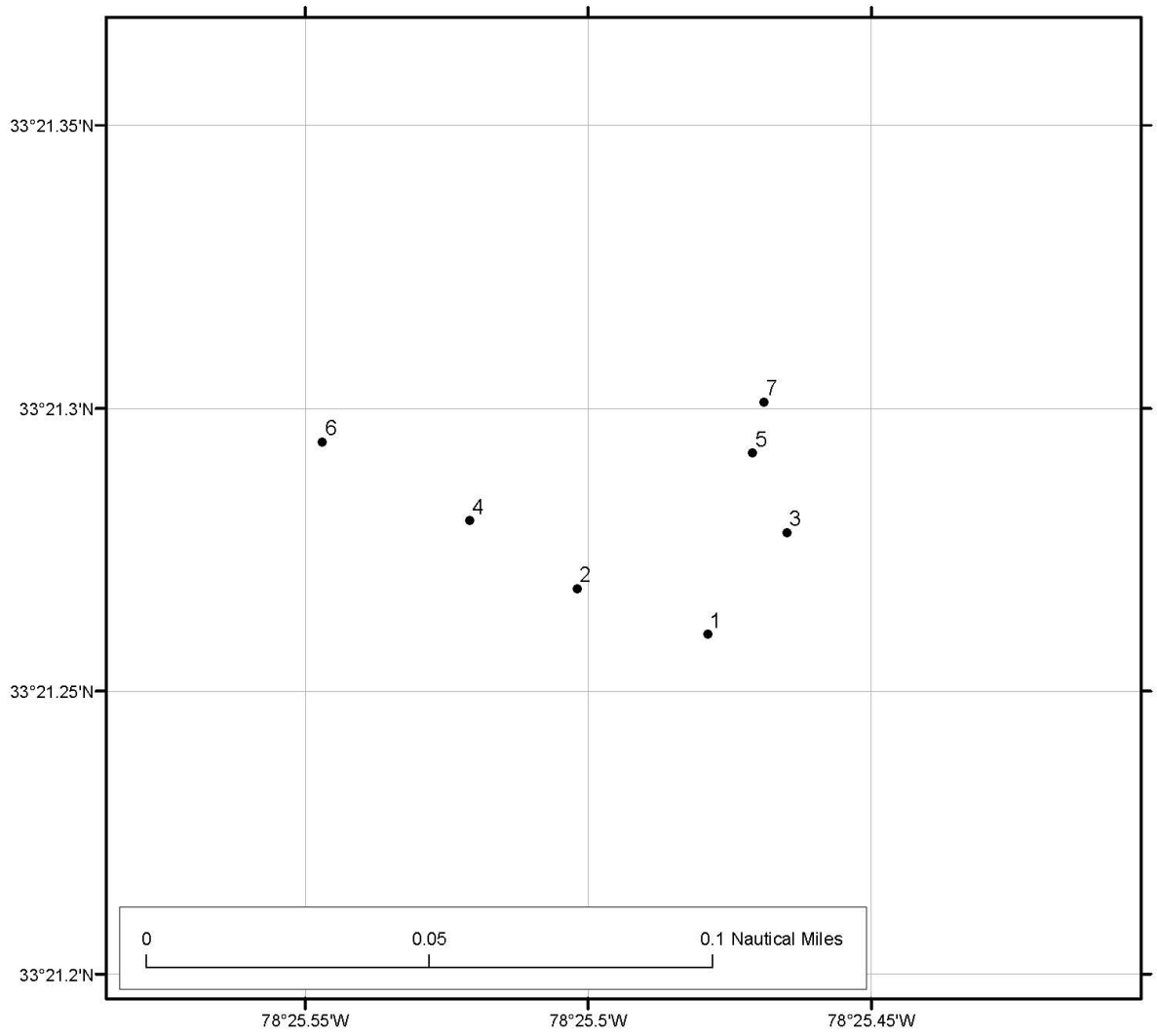
Reef	Structure	Latitude	Longitude
		N	W
	1) Reef Buoy	33 17.068	078 45.327
Will Goldfinch Reef	2) 175' Ship (YO-225)	33 17.005	078 45.372
	3) 120' Fuel Barge	33 17.036	078 45.407
	4) Concrete Zs	33 17.075	078 45.386
	5) Concrete Zs	33 17.010	078 45.313
	6) Concrete Culvert Pipe	33 17.060	078 45.305



PA-06

unmarked reef, bearing 173° / 29.5 nm from Little River Inlet buoy "2LR" or
113° / 31.5 nm from Murrells Inlet buoy "MI" - water depth 95'

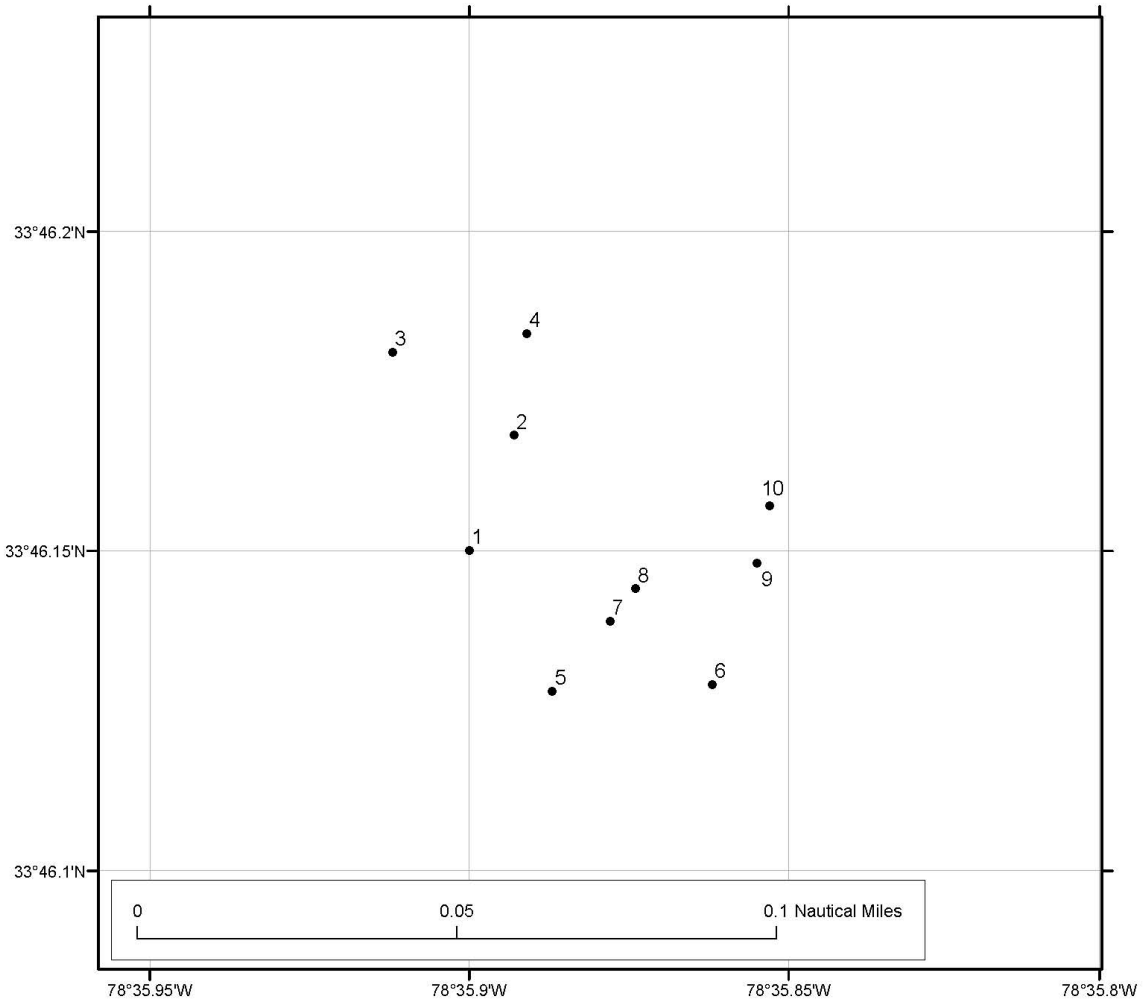
Reef	Structure	Latitude N	Longitude W
BP-25 Reef	1) 160' Ship (BP-25)	33 21.260	078 25.479
	2) NYCT Subway Cars	33 21.268	078 25.502
	3) NYCT Subway Cars	33 21.278	078 25.465
	4) NYCT Subway Cars	33 21.280	078 25.521
	5) NYCT Subway Cars	33 21.292	078 25.471
	6) NYCT Subway Cars	33 21.294	078 25.547
	7) NYCT Subway Cars	33 21.301	078 25.469



PA-04

1 buoy marks reef, bearing 211° / 5 nm from south jetty at Little River Inlet - water depth 35'

Reef	Structure	Latitude N	Longitude W
	1) Reef Buoy	33 46.150	078 35.900
Ron McManus Memorial Reef	2) Shrimp Trawler section	33 46.168	078 35.893
	3) Shrimp Trawler section	33 46.181	078 35.912
	4) Shrimp Trawler section	33 46.184	078 35.891
	5) Concrete Boxes & cones	33 46.128	078 35.887
	6) Concrete Boxes & cones	33 46.129	078 35.862
	7) Concrete Boxes & cones	33 46.139	078 35.878
	8) Concrete Boxes & cones	33 46.144	078 35.874
	9) Concrete Boxes & cones	33 46.148	078 35.855
	10) Concrete Boxes & cones	33 46.157	078 35.853



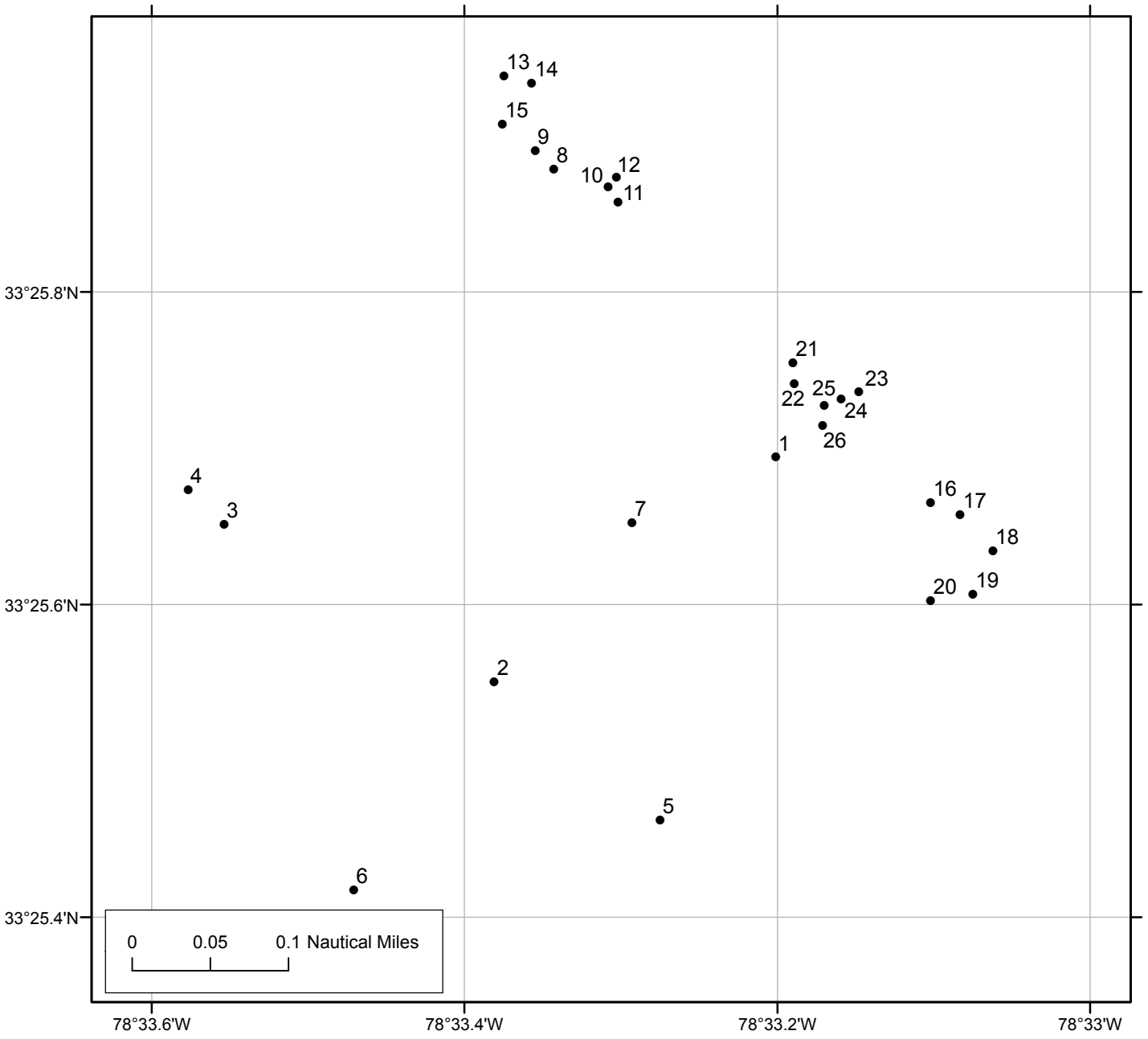
PA-08

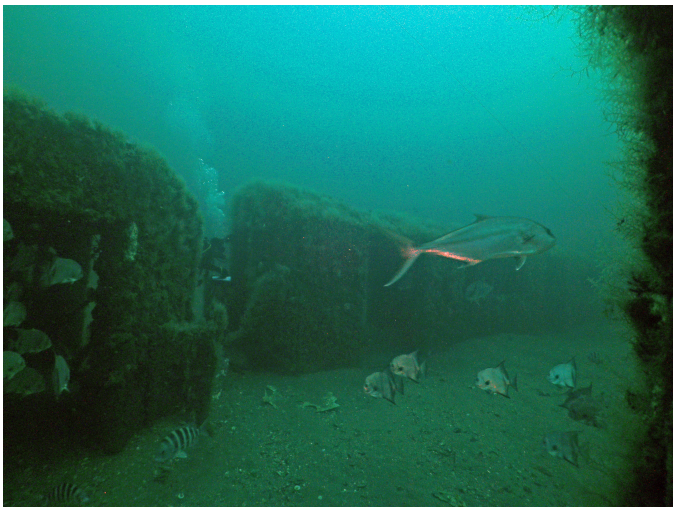
1 buoy marks reef, bearing 181° / 25 nm from south jetty at Little River Inlet or
100° / 25 nm from Murrells Inlet buoy "MI" - water depth 65'

Reef	Structure	Latitude	Longitude
		N	W
	1) Reef Buoy	33 25.694	078 33.201
Bill Perry Jr. Reef	2) 115' Landing craft	33 25.550	078 33.381
	3) 56' Landing craft	33 25.651	078 33.554
	4) 45' Shrimp boat	33 25.673	078 33.577
	5) 115' Landing craft	33 25.462	078 33.275
	6) 56' Landing craft	33 25.417	078 33.471
	7) 65' Tugboat	33 25.652	078 33.293
	8) NYCT Subway Cars	33 25.878	078 33.343
	9) NYCT Subway Cars	33 25.890	078 33.355
	10) NYCT Subway Cars	33 25.867	078 33.308
	11) NYCT Subway Cars	33 25.857	078 33.302
	12) NYCT Subway Cars	33 25.873	078 33.303
	13) NYCT Subway Cars	33 25.938	078 33.375
	14) NYCT Subway Cars	33 25.933	078 33.357
	15) NYCT Subway Cars	33 25.907	078 33.376
	16) APC's	33 25.665	078 33.102
	17) APC's	33 25.657	078 33.083
	18) APC's	33 25.634	078 33.062
	19) APC's	33 25.606	078 33.075
	20) APC's	33 25.602	078 33.102
	21) Shipping containers	33 25.754	078 33.190
	22) Shipping containers	33 25.741	078 33.189
	23) Shipping containers	33 25.736	078 33.148
	24) Shipping containers	33 25.731	078 33.159
	25) Shipping containers	33 25.727	078 33.170
	26) Shipping containers	33 25.714	078 33.171



PA-08


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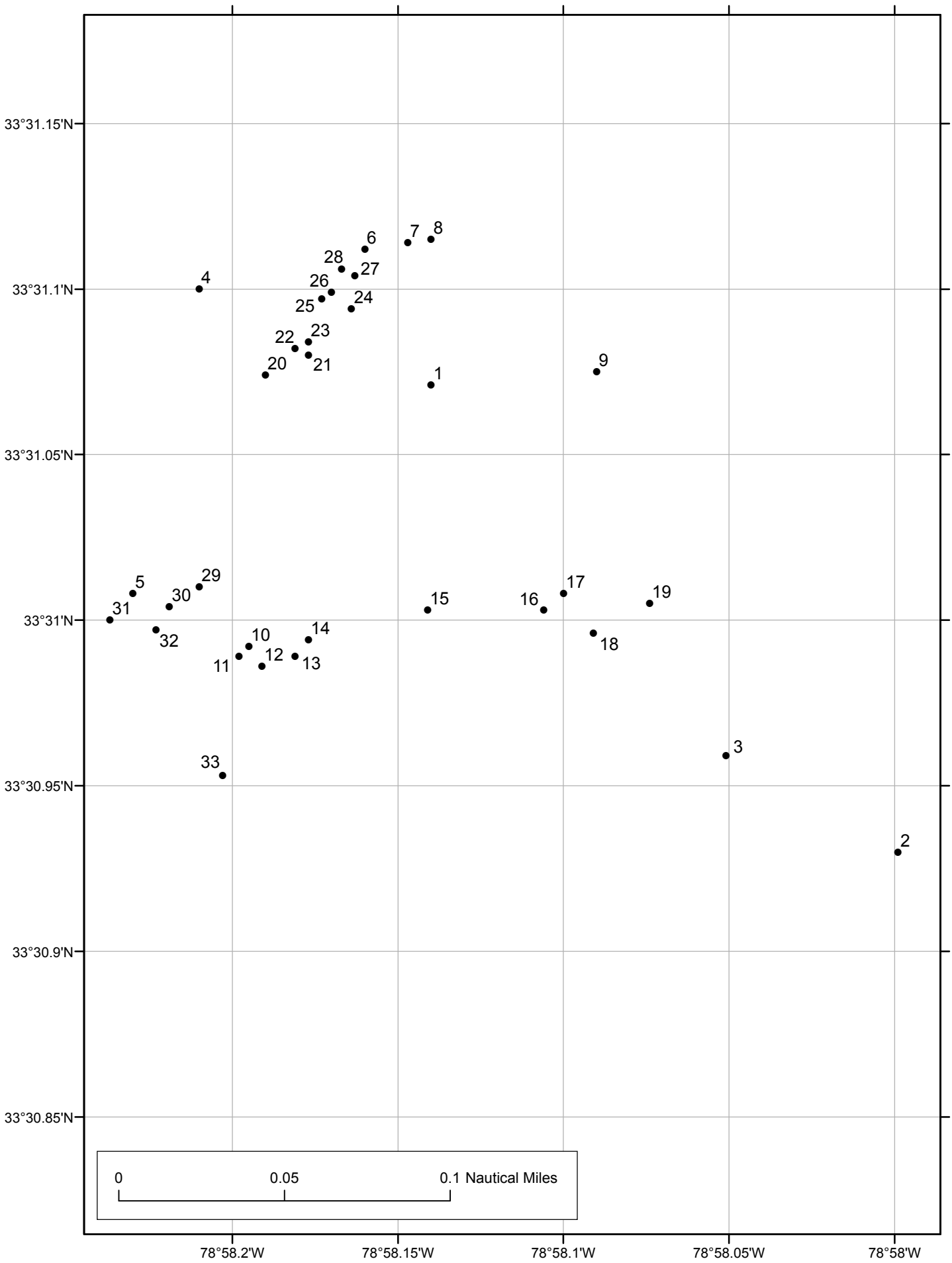


PA-09

1 buoy marks reef, bearing 105° / 3.2 nm from south jetty at Murrells Inlet - water depth 35'

Reef	Structure	Latitude N	Longitude W
	1) Reef Buoy	33 31.071	078 58.140
Paradise Reef	2) Deck barge	33 30.930	078 57.999
	3) Concrete reef balls	33 30.959	078 58.051
	4) Army APCs	33 31.100	078 58.210
	5) 48" Concrete manholes	33 31.008	078 58.230
	6) MI Rotary concrete	33 31.112	078 58.160
	7) MI Rotary concrete	33 31.114	078 58.147
	8) MI Rotary concrete	33 31.115	078 58.140
H.P. Springs Jr. Reef	9) 100 Concrete cones	33 31.075	078 58.090
Grand Strand	10) Concrete cones & Zs	33 30.992	078 58.195
Saltwater Anglers Reef	11) Concrete cones & Zs	33 30.989	078 58.198
	12) Concrete cones & Zs	33 30.986	078 58.191
	13) Concrete cones & Zs	33 30.989	078 58.181
	14) 65' Deck barge with 135 concrete culvert pipes	33 30.994	078 58.177
	15) Army APCs	33 31.003	078 58.141
	16) Army APCs	33 31.003	078 58.106
	17) Army APCs	33 31.008	078 58.100
	18) Army APCs	33 30.996	078 58.091
	19) Army APCs	33 31.005	078 58.074
	20) 8' Concrete boxes	33 31.074	078 58.190
	21) 8' Concrete boxes	33 31.080	078 58.177
	22) 8' Concrete boxes	33 31.082	078 58.181
	23) 8' Concrete boxes	33 31.084	078 58.177
	24) 8' Concrete boxes	33 31.094	078 58.164
	25) 8' Concrete boxes	33 31.097	078 58.173
	26) 8' Concrete boxes	33 31.099	078 58.170
	27) 8' Concrete boxes	33 31.104	078 58.163
	28) 8' Concrete boxes	33 31.106	078 58.167
Winston Perry Memorial Reef	29) Concrete culvert pipe (92 pieces, various sizes)	33 31.010	078 58.210
Bob Hanson Reef	30) Concrete culvert pipe	33 31.004	078 58.219
	31) Concrete culvert pipe	33 31.000	078 58.237
	32) Concrete culvert pipe	33 30.997	078 58.223
	33) Concrete culvert pipe	33 30.953	078 58.203

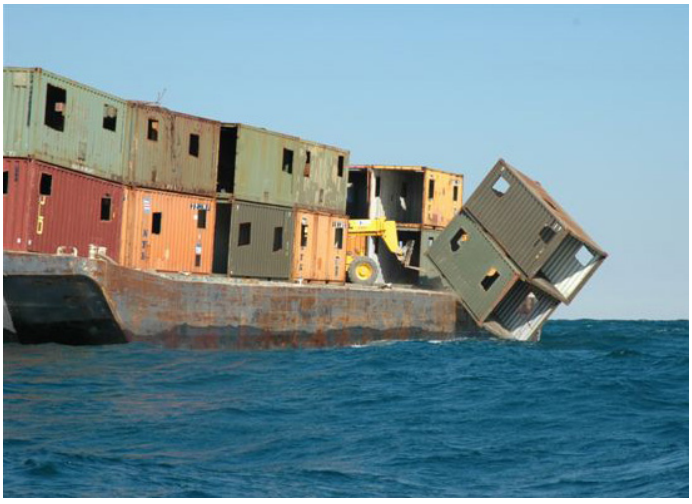
PA-09

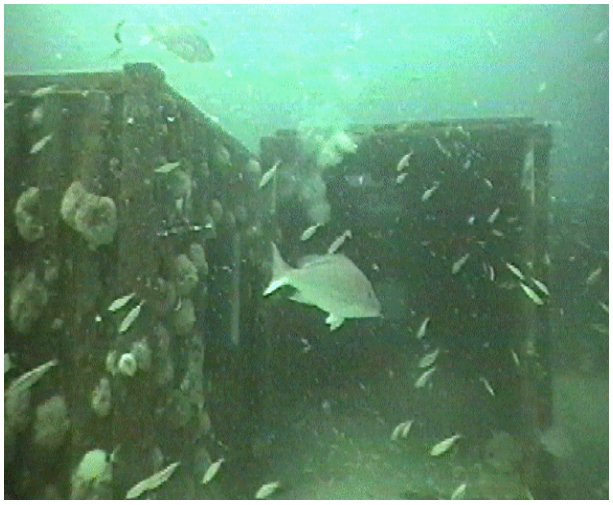

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PA-10

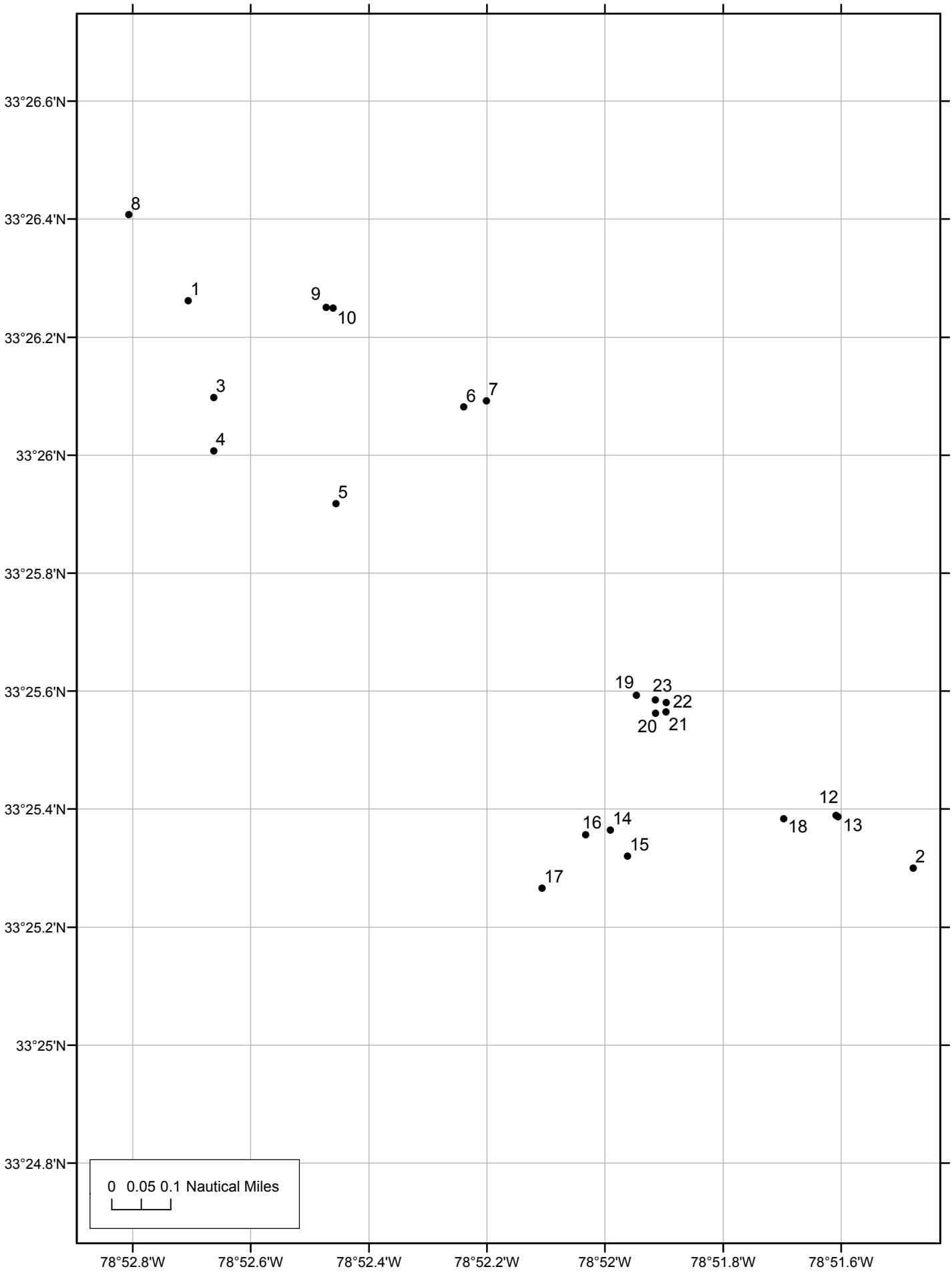
2 buoys mark reef, bearing 130° / 9.5 nm from south jetty at Murrells Inlet - water depth 45'

Reef	Structure	Latitude N	Longitude W
	1) NW Reef Buoy	33 26.261	078 52.706
	2) SE Reef Buoy	33 25.300	078 51.478
Bruce Rush Reef	3) 100 Concrete cones	33 26.097	078 52.663
	4) 65' Crew boat	33 26.007	078 52.663
	5) 78' Shrimp boat (Capt Dan)	33 25.917	078 52.456
Ten Mile Reef	6) Concrete reef balls	33 26.081	078 52.239
	7) Concrete reef balls	33 26.092	078 52.201
	8) 200' Deck barge	33 26.407	078 52.807
	9) Concrete boxes & culvert	33 26.250	078 52.472
	10) Concrete boxes & culvert	33 26.249	078 52.461
Eleven Mile Reef	11) Tugboat & Barge	33 25.389	078 51.609
	12) A-7 Airplane	33 25.387	078 51.605
	13) Shipping containers	33 25.364	078 51.991
	14) Shipping containers	33 25.320	078 51.962
	15) Shipping containers	33 25.356	078 52.033
	16) Shipping containers	33 25.266	078 52.107
	17) 50' Deck barge	33 25.384	078 51.697
	18) Army APCs	33 25.593	078 51.947
	19) Army APCs	33 25.562	078 51.914
	20) Army APCs	33 25.564	078 51.897
	21) Army APCs	33 25.581	078 51.896
	22) Army APCs	33 25.584	078 51.915





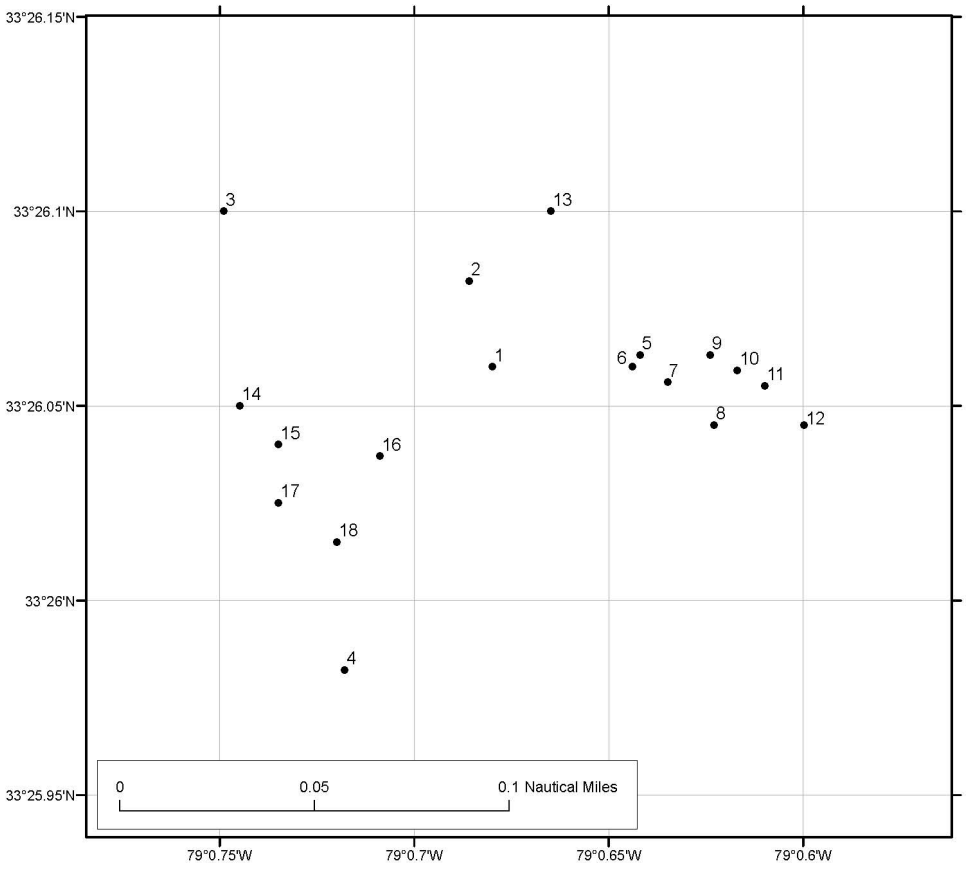
PA-10


33°26.6'N
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0 0.05 0.1 Nautical Miles

PA-11

1 buoy marks reef, bearing 177° / 5.5 nm from south jetty at Murrells Inlet - water depth 35'

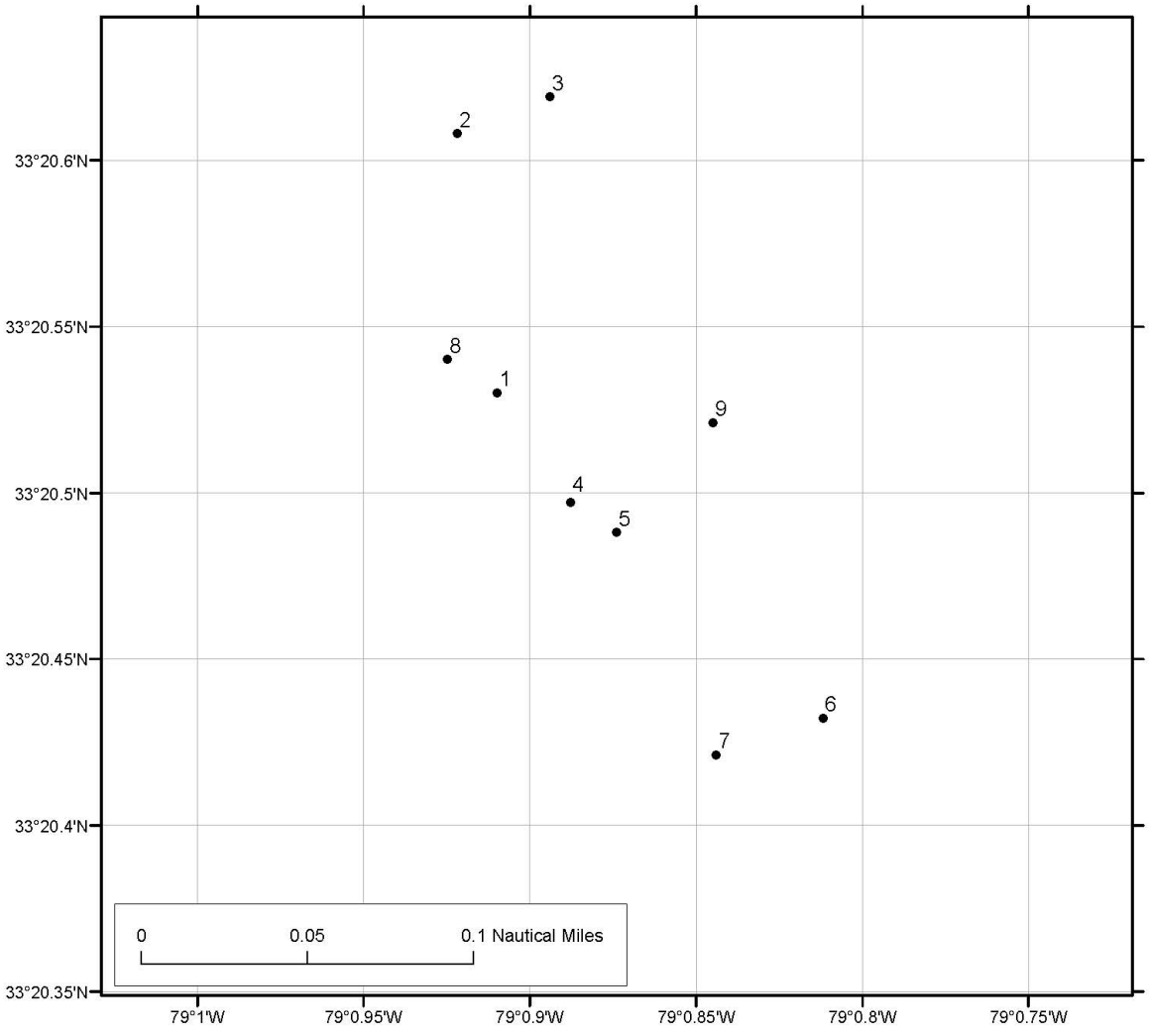
Reef	Structure	Latitude N	Longitude W
	1) Reef Buoy	33 26.060	079 00.680
Pawley's Island Reef	2) 56' Landing craft	33 26.082	079 00.686
	3) 56' Landing craft	33 26.100	079 00.749
	4) 200 Concrete cones	33 25.982	079 00.718
	5) Army APC's	33 26.063	079 00.642
	6) Army APC's	33 26.060	079 00.644
	7) Army APC's	33 26.056	079 00.635
	8) Army APC's	33 26.045	079 00.623
	9) Army APC's	33 26.063	079 00.624
	10) Army APC's	33 26.059	079 00.617
	11) Army APC's	33 26.055	079 00.610
	12) Army APC's	33 26.045	079 00.600
	13) Concrete boxes	33 26.100	079 00.665
Tommy Pierce Reef	14) Concrete culvert pipe	33 26.050	079 00.745
	15) Concrete culvert pipe	33 26.040	079 00.735
	16) Concrete culvert pipe	33 26.037	079 00.709
	17) 45' Tugboat	33 26.025	079 00.735
	18) 100 Concrete cones	33 26.015	079 00.720



PA-12

1 buoy marks reef, bearing 020° / 9.6 nm from Winyah Bay channel buoy "2WB" - water depth 45'

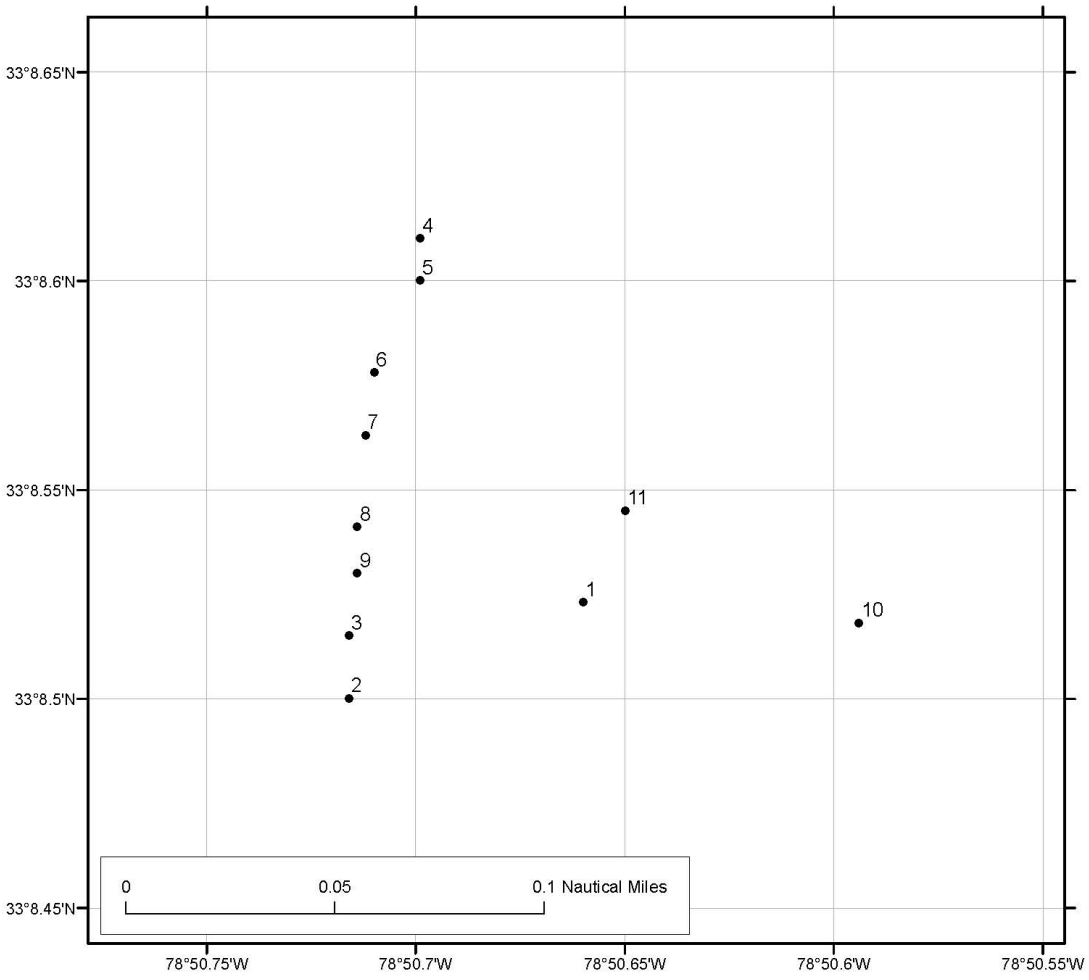
Reef	Structure	Latitude N	Longitude W
	1) Reef Buoy	33 20.530	079 00.910
CCA-North Inlet Reef	2) 175 Steel pup tents	33 20.608	079 00.922
	3) 200 Concrete reef balls	33 20.619	079 00.894
	4) Shipping containers	33 20.497	079 00.888
	5) Shipping containers	33 20.488	079 00.874
	6) Shipping containers	33 20.432	079 00.812
	7) Shipping containers	33 20.421	079 00.844
	8) 96 concrete culvert pipes	33 20.540	079 00.925
	9) 65' Trawler hull	33 20.521	079 00.845



PA-13

1 buoy marks reef, bearing 105° / 13 nm from Winyah Bay channel buoy "2WB" - water depth 60'

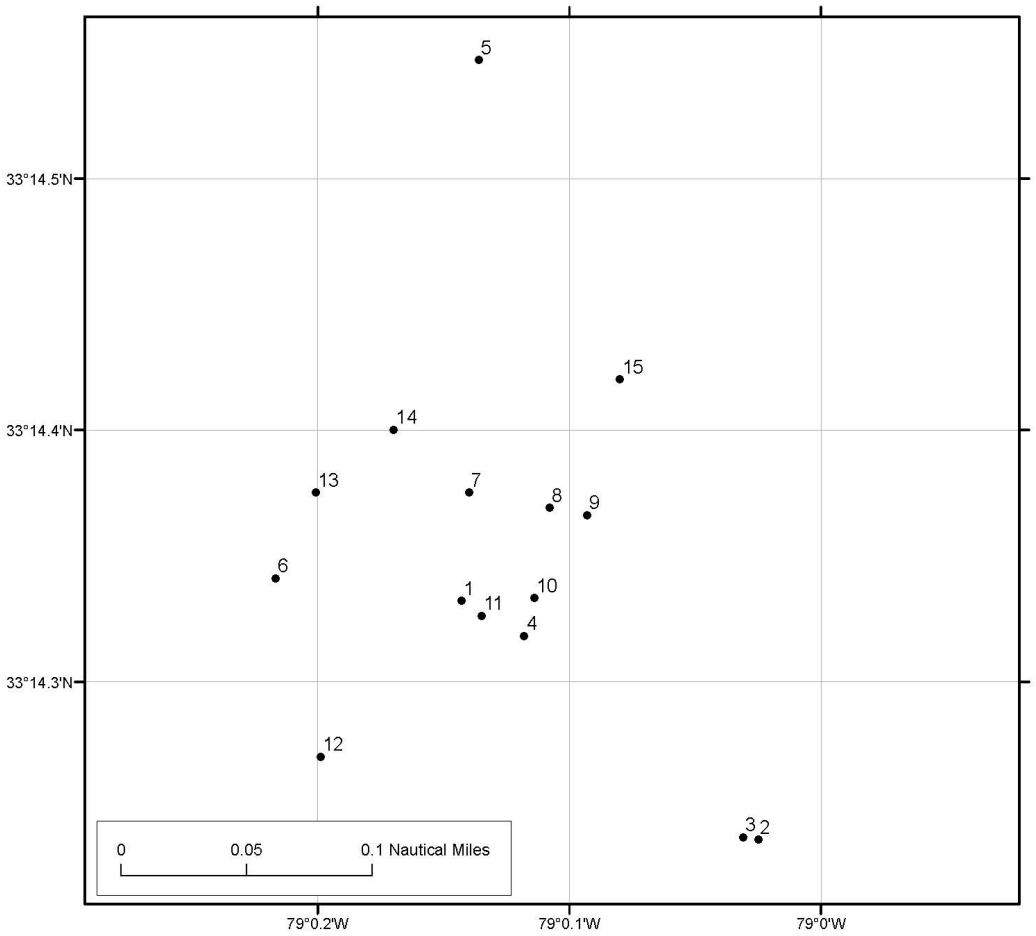
Reef	Structure	Latitude N	Longitude W
	1) Reef Buoy	33 08.523	078 50.660
Wayne Upchurch Reef	2) Concrete cones	33 08.500	078 50.716
	3) Concrete cones	33 08.515	078 50.716
	4) Army APCs	33 08.610	078 50.699
	5) Army APCs	33 08.600	078 50.699
	6) Army APCs	33 08.578	078 50.710
	7) Army APCs	33 08.563	078 50.712
	8) Army APCs	33 08.541	078 50.714
	9) Army APCs	33 08.530	078 50.714
	10) 45' Tugboat	33 08.518	078 50.594
	11) Concrete culvert pipe	33 08.545	078 50.650



PA-14

1 buoy marks reef, bearing 074° / 7.6 nm from end of Winyah Bay jetty - water depth 40'

Reef	Structure	Latitude N	Longitude W
	1) Reef Buoy	33 14.332	079 00.143
Georgetown Reef	2) 100' Shipwreck	33 14.237	079 00.025
	3) Steel structures	33 14.238	079 00.031
	4) Steel structures	33 14.318	079 00.118
	5) 100' Deck barge	33 14.547	079 00.136
	6) 56' Landing craft	33 14.341	079 00.217
	7) 200 Concrete cones	33 14.375	079 00.140
	8) Shipping containers	33 14.369	079 00.108
	9) Shipping containers	33 14.366	079 00.093
	10) Shipping containers	33 14.333	079 00.114
	11) Shipping containers	33 14.326	079 00.135
	12) Concrete culvert pipe	33 14.270	079 00.199
	13) Army APCs	33 14.375	079 00.201
	14) Concrete culvert pipe	33 14.400	079 00.170
	15) Concrete boxes & culvert	33 14.420	079 00.080

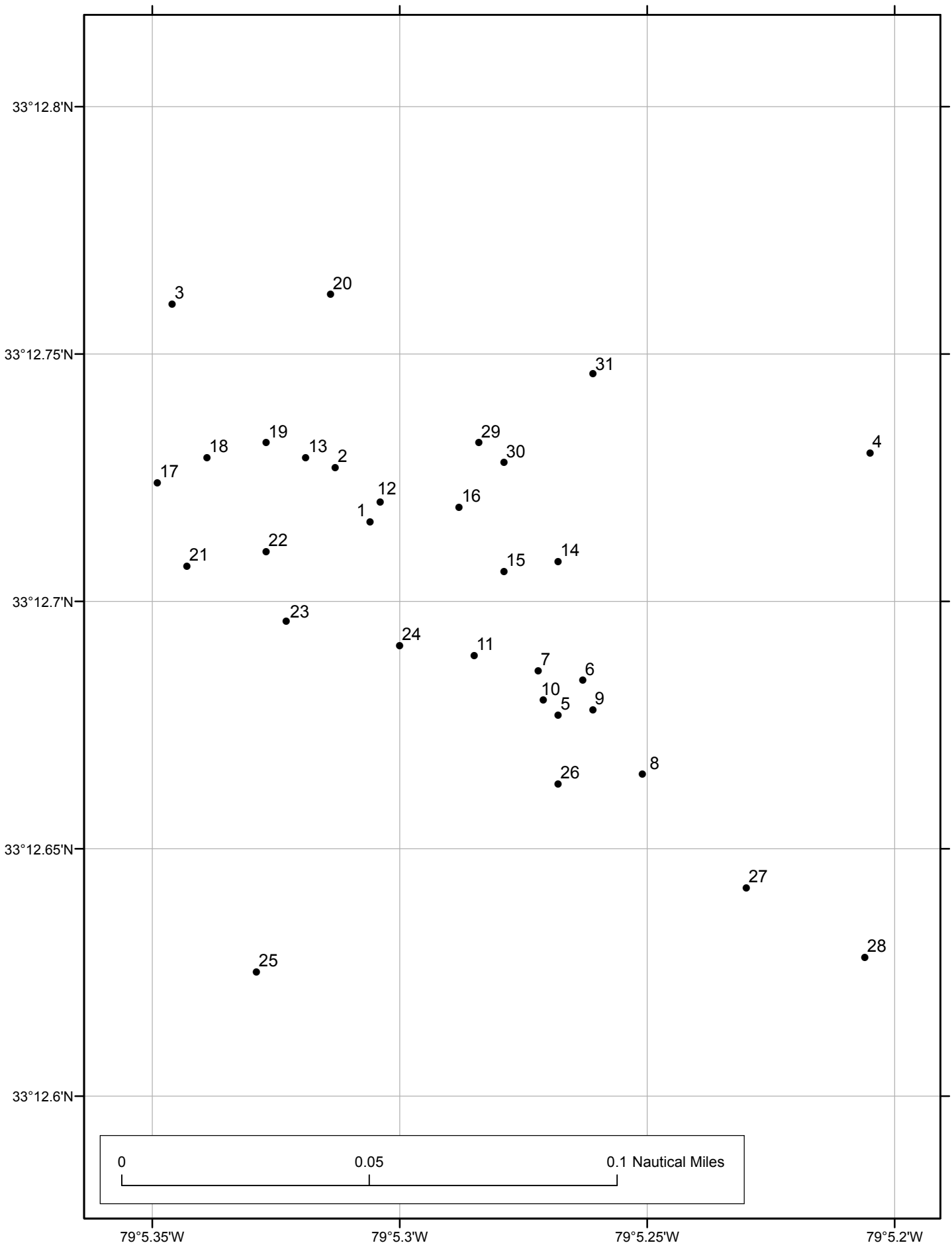


PA-15

1 buoy marks reef, bearing 065° / 2.7 nm from Winyah Bay south jetty mound - water depth 30'

Reef	Structure	Latitude N	Longitude W
	1) Reef Buoy	33 12.716	079 05.306
Georgetown Nearshore Reef	2) 130' Deck barge	33 12.727	079 05.313
	3) 62' Lash barge	33 12.760	079 05.346
	4) 62' Lash barge	33 12.730	079 05.205
	5) Army APCs	33 12.677	079 05.268
	6) Army APCs	33 12.684	079 05.263
	7) Army APCs	33 12.686	079 05.272
	8) Army APCs	33 12.665	079 05.251
	9) Army APCs	33 12.678	079 05.261
	10) Army APCs	33 12.680	079 05.271
	11) Army APCs	33 12.689	079 05.285
	12) Concrete cones	33 12.720	079 05.304
	13) Concrete cones	33 12.729	079 05.319
	14) Concrete culvert pipe	33 12.708	079 05.268
	15) Concrete culvert pipe	33 12.706	079 05.279
	16) Concrete culvert pipe	33 12.719	079 05.288
	17) Concrete culvert pipe	33 12.724	079 05.349
	18) Concrete culvert pipe	33 12.729	079 05.339
	19) Concrete culvert pipe	33 12.732	079 05.327
	20) 38' Boat w/ culvert	33 12.762	079 05.314
Capt. Sam Crayton Reef	21) Concrete culvert pipe	33 12.707	079 05.343
	22) Concrete culvert pipe	33 12.710	079 05.327
	23) Concrete cones	33 12.696	079 05.323
	24) 55' Deck barge	33 12.691	079 05.300
	25) 180' Deck barge	33 12.625	079 05.329
	26) Concrete Zs	33 12.663	079 05.268
	27) Concrete Zs	33 12.642	079 05.230
	28) Concrete Zs	33 12.628	079 05.206
Pop DuBose's Place	29) Concrete culvert pipe	33 12.732	079 05.284
	30) Concrete culvert pipe	33 12.728	079 05.279
	31) 50' Deck Barge	33 12.746	079 05.261

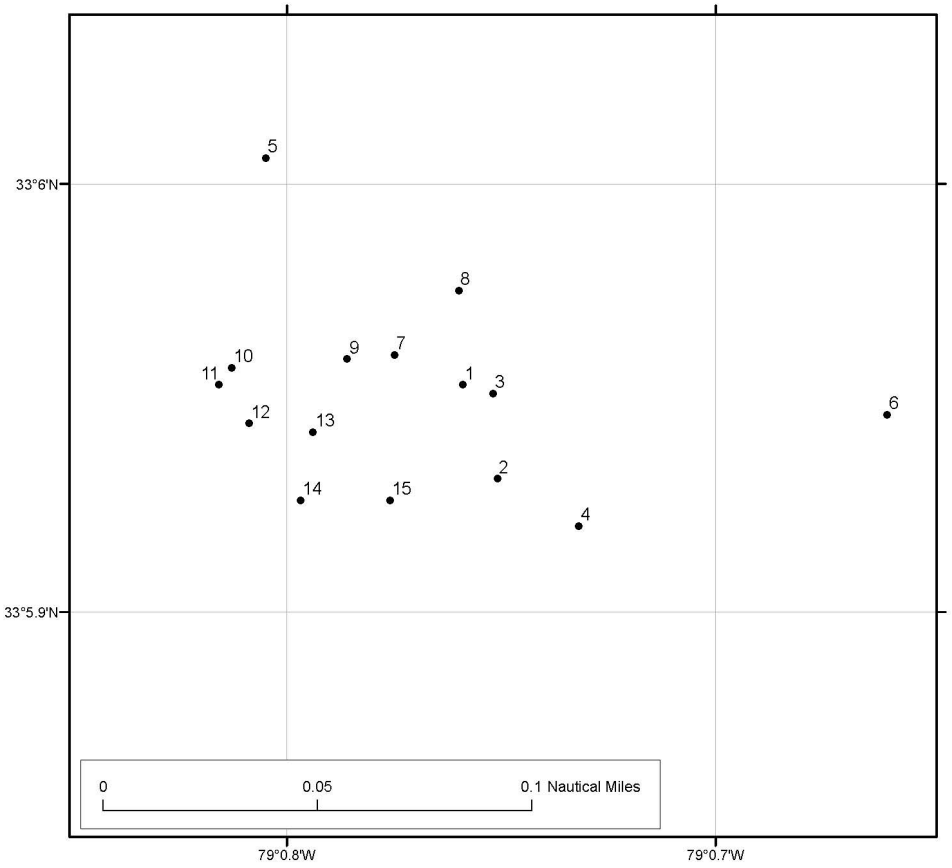
PA-15


33°12.8'N
33°12.75'N
33°12.7'N
33°12.65'N
33°12.6'N
79°5.35'W
79°5.3'W
79°5.25'W
79°5.2'W
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PA-16

1 buoy marks reef, bearing 147° / 6.5 nm from Winyah Bay channel buoy "2WB" - water depth 53'

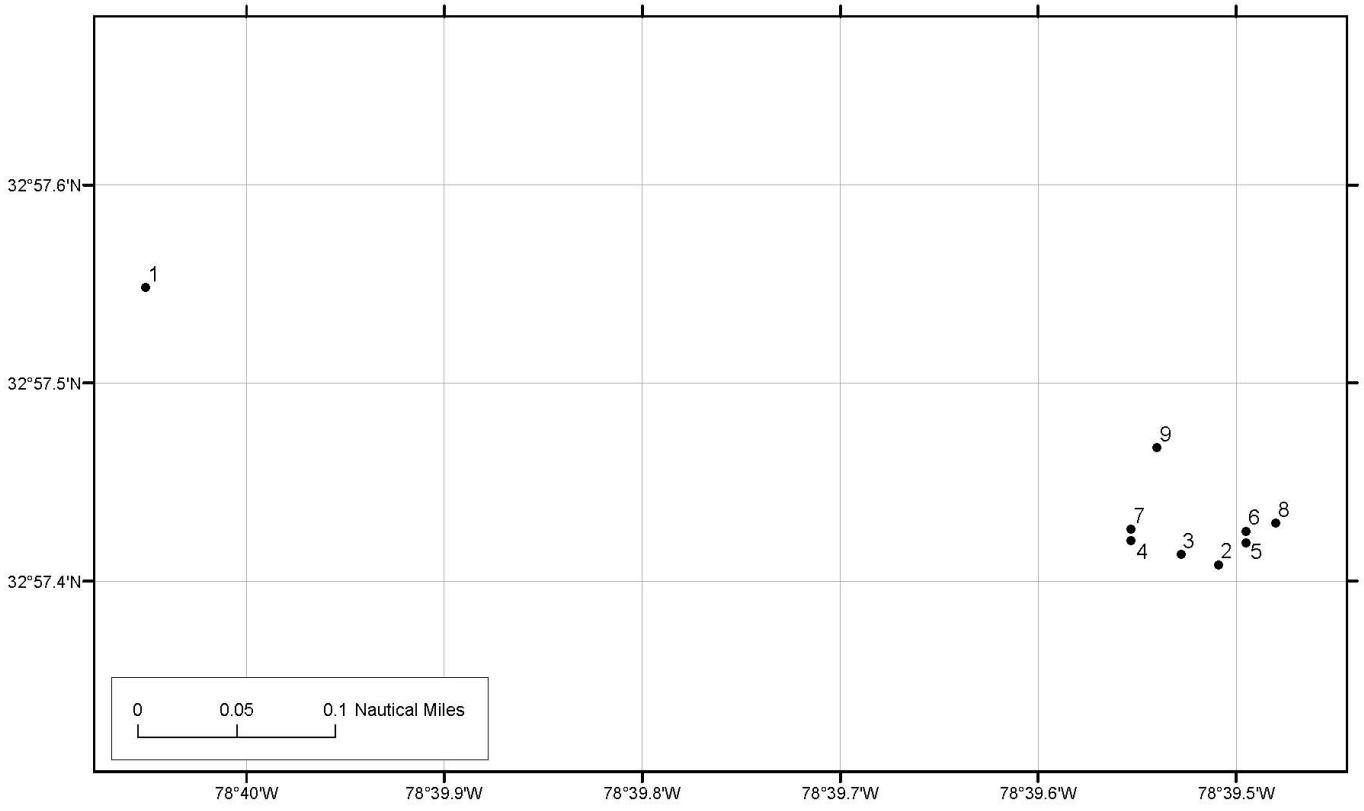
Reef	Structure	Latitude N	Longitude W
	1) Reef Buoy	33 05.953	079 00.759
C.J. Davidson Jr. Reef	2) 140' Deck barge	33 05.931	079 00.751
	3) Steel & Tire units	33 05.951	079 00.752
	4) Steel & Tire units	33 05.920	079 00.732
	5) 200 Concrete reef balls	33 06.006	079 00.805
	6) 20 Army APCs	33 05.946	079 00.660
	7) 100 Concrete cones	33 05.960	079 00.775
	8) 90 concrete culvert pipes	33 05.975	079 00.760
	9) Concrete boxes	33 05.959	079 00.786
	10) Concrete boxes	33 05.957	079 00.813
	11) Concrete boxes	33 05.953	079 00.816
	12) Concrete boxes	33 05.944	079 00.809
	13) Concrete boxes	33 05.942	079 00.794
	14) Concrete boxes	33 05.926	079 00.797
	15) Concrete boxes	33 05.926	079 00.776



PA-17

unmarked reef, bearing 117° / 27.5 nm from south jetty at Winyah Bay - water depth 120'

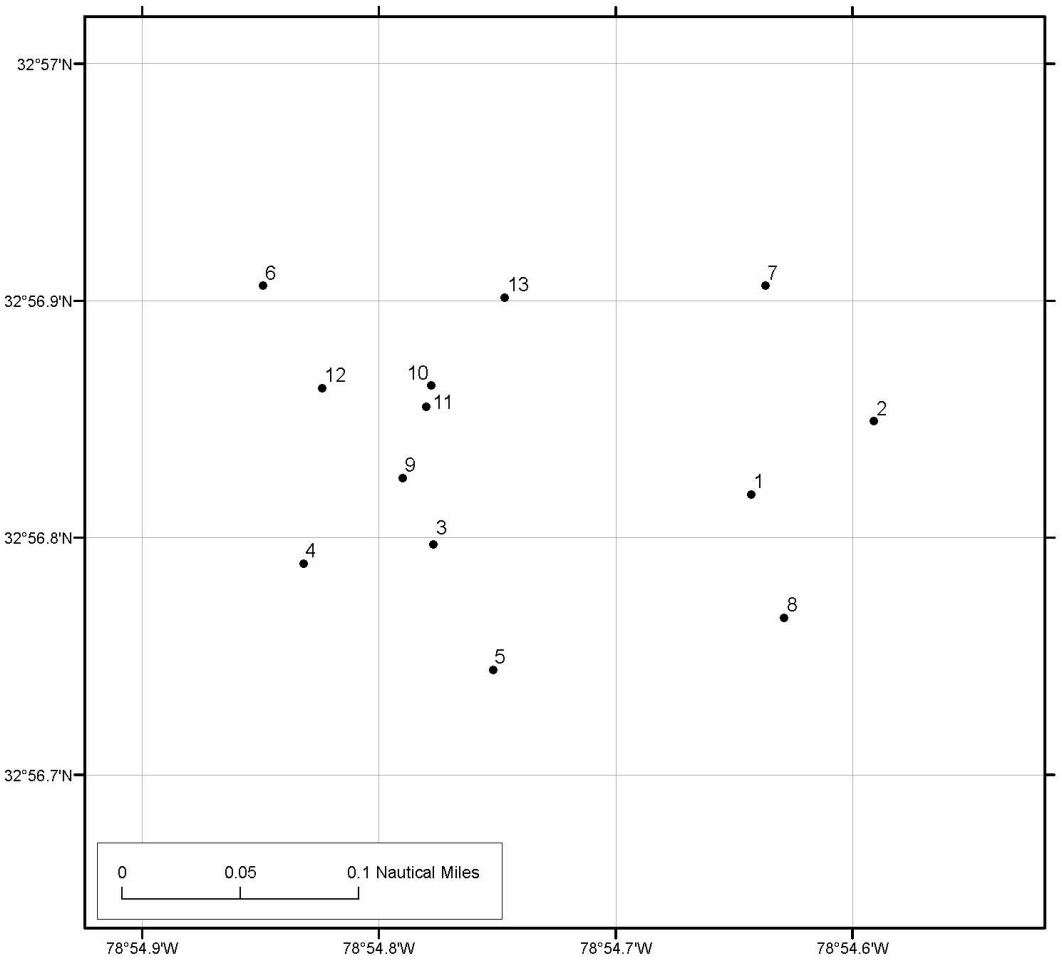
Reef	Structure	Latitude N	Longitude W
Vermilion Reef	1) 460' Ship (Vermilion)	32 57.548	078 40.051
	2) NYCT Subway cars	32 57.408	078 39.509
	3) NYCT Subway cars	32 57.413	078 39.528
	4) NYCT Subway cars	32 57.420	078 39.553
	5) NYCT Subway cars	32 57.419	078 39.495
	6) NYCT Subway cars	32 57.425	078 39.495
	7) NYCT Subway cars	32 57.426	078 39.553
	8) NYCT Subway cars	32 57.429	078 39.480
	9) NYCT Subway cars	32 57.467	078 39.540



PA-18

unmarked reef, bearing 149^{o} / 17.5 nm from Winyah Bay channel buoy "2WB" - water depth 85'

Reef	Structure	Latitude N	Longitude W
Greenville Reef	1) 140' Deck barge	32 56.818	078 54.643
	2) Drydock units	32 56.849	078 54.591
	3) Drydock units	32 56.797	078 54.777
	4) Drydock units	32 56.789	078 54.832
	5) 130' Deck barge	32 56.744	078 54.752
	6) 175' Ship (YOG-78)	32 56.906	078 54.849
	7) 106' Fuel barge (YSR-38)	32 56.906	078 54.637
	8) 105' Tugboat (Eagle)	32 56.766	078 54.629
	9) 175' Cargo ship (JoAnn)	32 56.825	078 54.790
	10) Concrete culvert	32 56.864	078 54.778
	11) Concrete culvert	32 56.855	078 54.780
	12) Concrete culvert	32 56.863	078 54.824
	13) Drydock units	32 56.901	078 54.747
Ralph H. Skelton Reef	14) 105' Tugboat (America)	32 56.623	078 57.587




JOANN



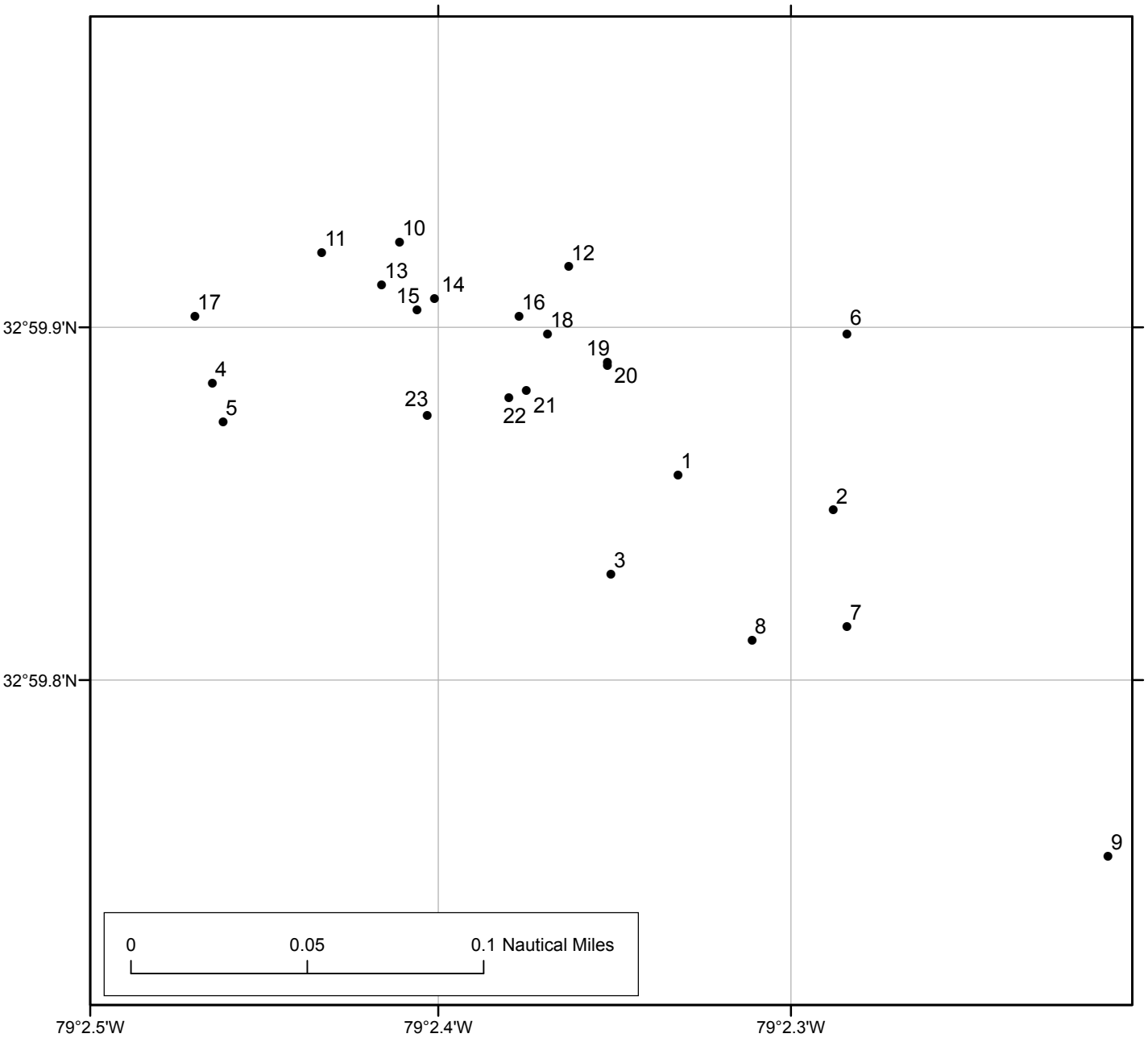
PA-19

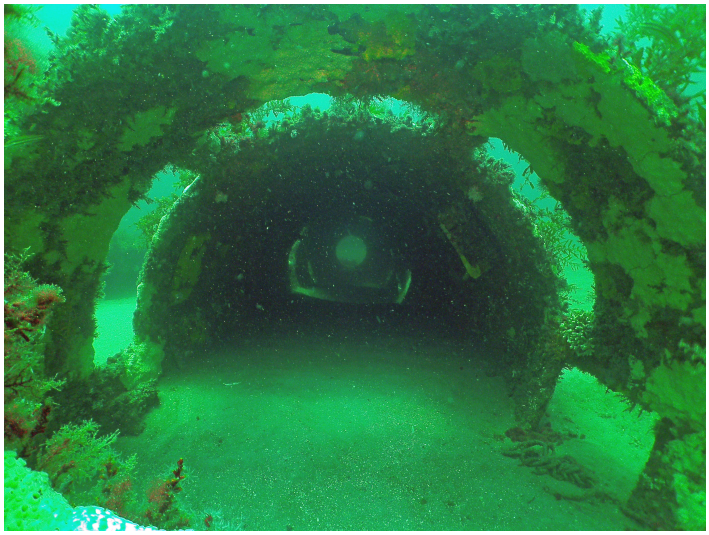
1 buoy marks reef, bearing 173^{o} / 12 nm from Winyah Bay channel buoy "2WB" - water depth 65'

Reef	Structure	Latitude N	Longitude W
	1) Reef Buoy	32 59.858	079 02.332
Cape Romain Reef	2) 100' Deck barge	32 59.848	079 02.288
	3) 65' Tugboat	32 59.830	079 02.351
	4) Army APCs	32 59.884	079 02.464
	5) Army APCs	32 59.873	079 02.461
	6) Concrete & steel rubble	32 59.898	079 02.284
	7) Concrete & steel rubble	32 59.815	079 02.284
	8) 90' Tugboat (Dolphin)	32 59.811	079 02.311
	9) Concrete culvert pipe	32 59.750	079 02.210
	10) Concrete culvert pipe	32 59.924	079 02.411
	11) Concrete culvert pipe	32 59.921	079 02.433
	12) Concrete culvert pipe	32 59.917	079 02.363
	13) Concrete culvert pipe	32 59.912	079 02.416
	14) Concrete culvert pipe	32 59.908	079 02.401
	15) Concrete culvert pipe	32 59.905	079 02.406
	16) Concrete culvert pipe	32 59.903	079 02.377
	17) Concrete culvert pipe	32 59.903	079 02.469
	18) Concrete culvert pipe	32 59.898	079 02.369
	19) Concrete culvert pipe	32 59.890	079 02.352
	20) Concrete culvert pipe	32 59.889	079 02.352
	21) Concrete culvert pipe	32 59.882	079 02.375
	22) Concrete culvert pipe	32 59.880	079 02.380
	23) Concrete culvert pipe	32 59.875	079 02.403



PA-19

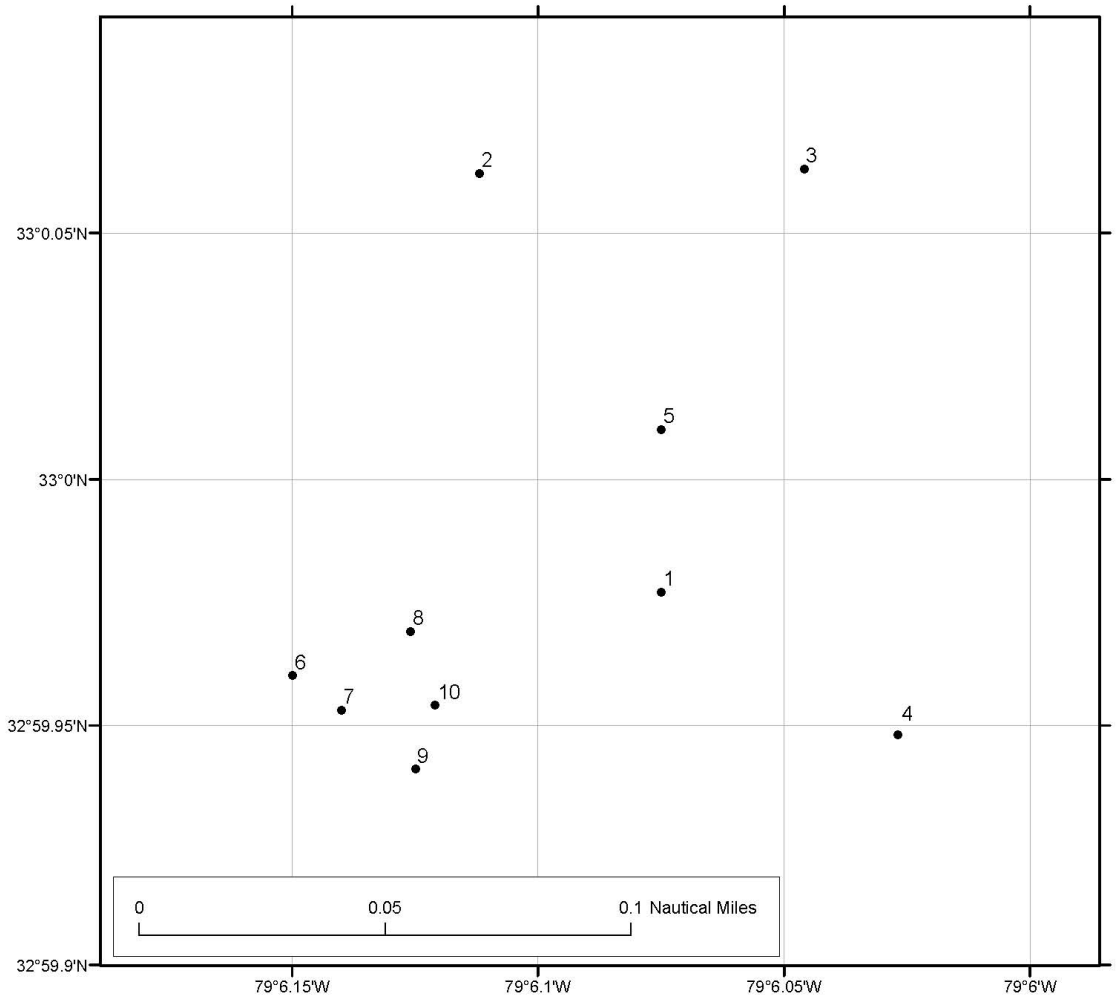

32°59.9'N
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PA-20

marked by Coast Guard buoy "WR-4", bearing 176° / 11.7 nm from Winyah Bay channel buoy "2WB"
water depth 30'

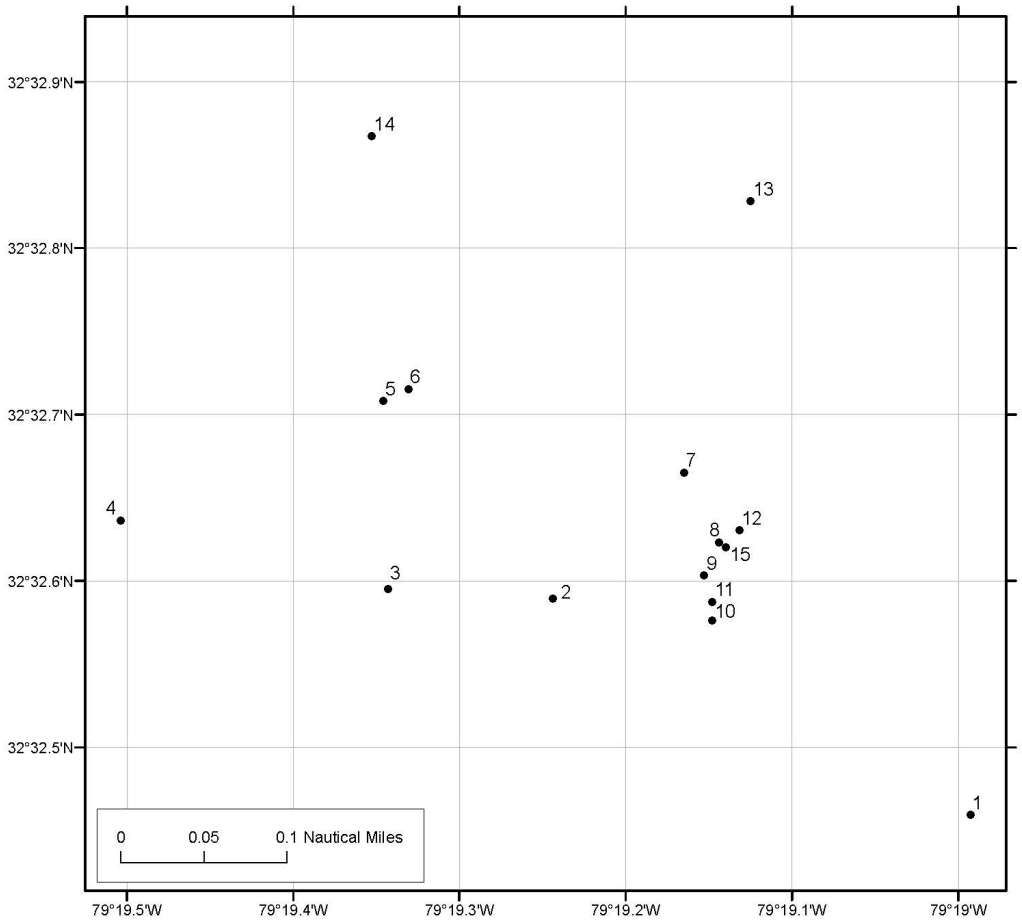
Reef	Structure	Latitude N	Longitude W
Hector Reef	1) Hector wreck	32 59.977	079 06.075
	2) 22' BK Barges	33 00.062	079 06.112
	3) 56' Landing craft	33 00.063	079 06.046
	4) Deck barge	32 59.948	079 06.027
	5) Concrete culvert pipe	33 00.010	079 06.075
	6) Concrete culvert pipe	32 59.960	079 06.150
	7) Concrete culvert pipe	32 59.953	079 06.140
	8) Concrete culvert pipe	32 59.969	079 06.126
	9) Concrete culvert pipe	32 59.941	079 06.125
	10) Concrete culvert pipe	32 59.954	079 06.121



PA-23

unmarked reef, bearing 114^{o} / 27 nm from Charleston Harbor south jetty - water depth 95'

Reef	Structure	Latitude N	Longitude W
Y-73 Reef	1) 180' Tanker (Y-73)	32 32.459	079 18.993
	2) 90' Tugboat (Helen)	32 32.589	079 19.244
	3) 90' Tugboat (Tanda 9)	32 32.595	079 19.343
	4) 90' Tugboat (Kimberly)	32 32.636	079 19.504
	5) Steel pyramids	32 32.708	079 19.346
	6) Steel pyramids	32 32.715	079 19.331
	7) Shipping containers	32 32.665	079 19.165
	8) Shipping containers	32 32.623	079 19.144
	9) Shipping containers	32 32.603	079 19.153
	10) Shipping containers	32 32.576	079 19.148
	11) Shipping containers	32 32.587	079 19.148
	12) Shipping containers	32 32.630	079 19.132
	13) Cooper River Bridge rubble	32 32.828	079 19.125
	14) Cooper River Bridge rubble	32 32.867	079 19.353
	15) Cooper River Bridge rubble	32 32.620	079 19.140



PA-22

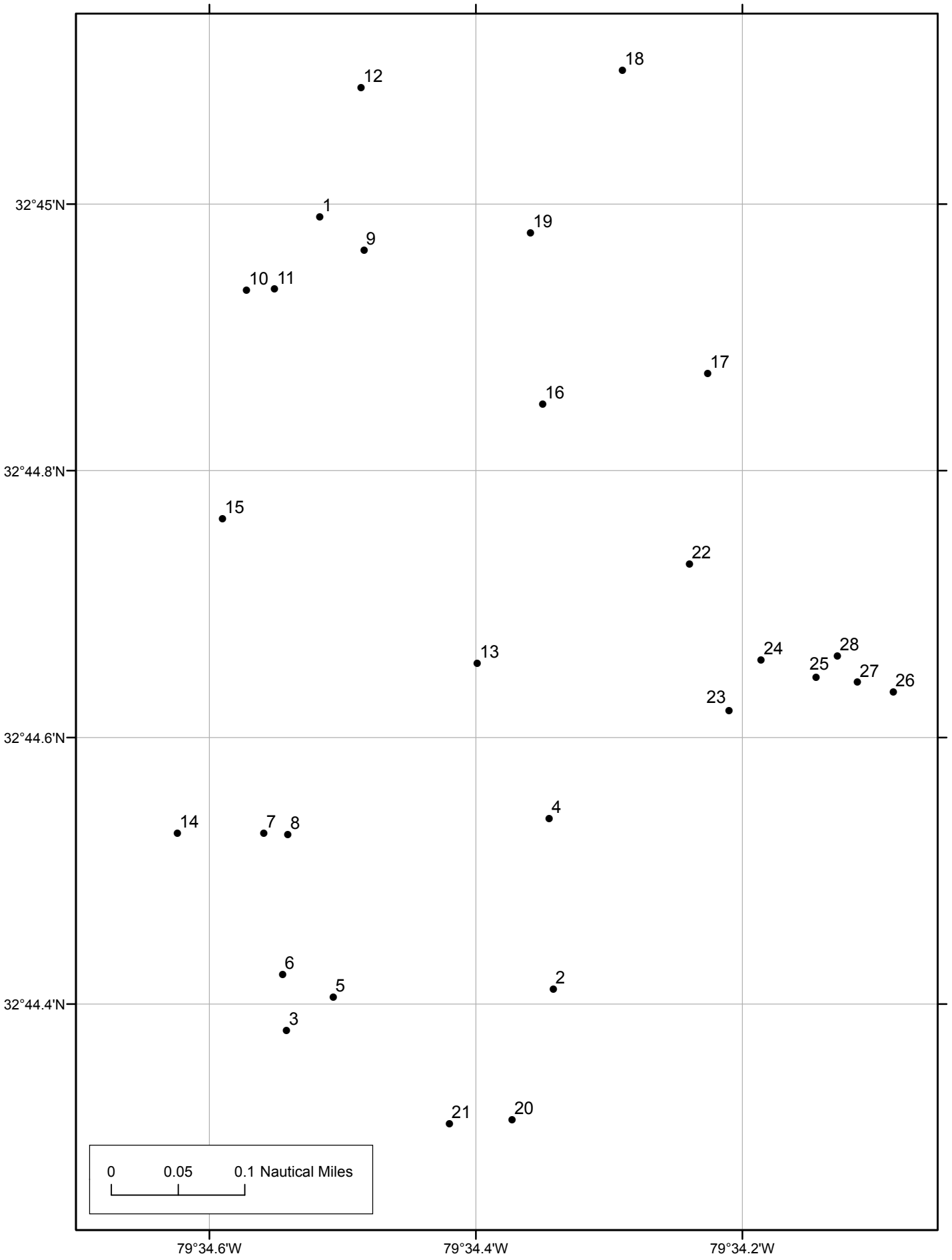
1 state buoy and Coast Guard buoy "R8" mark reef, bearing 090° / 12.2 nm
from offshore end of Charleston jetties - water depth 45'

Reef	Structure	Latitude N	Longitude W
	1) Reef Buoy	32 44.990	079 34.517
	2) Coast Guard Buoy 'R8'	32 44.411	079 34.342
Capers Reef (R8)	3) Concrete reef balls	32 44.380	079 34.542
	4) 90' Tugboat	32 44.539	079 34.345
	5) 110' Deck barge	32 44.405	079 34.507
	6) Caisson	32 44.422	079 34.545
	7) 56' Landing craft	32 44.528	079 34.559
	8) 56' Landing craft	32 44.527	079 34.541
	9) 150' Deck barge	32 44.965	079 34.484
	10) Pipes and cubes	32 44.935	079 34.572
	11) Pipes and cubes	32 44.936	079 34.551
	12) 120' Deck barge	32 45.087	079 34.486
	13) 65' Tugboat	32 44.655	079 34.399
	14) 120' Deck barge	32 44.528	079 34.624
	15) 56' Deck barge	32 44.764	079 34.590
	16) Cooper River Bridge rubble	32 44.850	079 34.350
	17) Cooper River Bridge rubble	32 44.873	079 34.226
	18) Cooper River Bridge rubble	32 45.100	079 34.290
	19) Cooper River Bridge rubble	32 44.978	079 34.359
	20) Cooper River Bridge rubble	32 44.313	079 34.373
	21) Cooper River Bridge rubble	32 44.310	079 34.420
	22) 75 concrete filled drums	32 44.730	079 34.240
	23) Army APC's	32 44.620	079 34.210
	24) Army APC's	32 44.658	079 34.186
	25) Army APC's	32 44.645	079 34.145
	26) Concrete culvert pipe	32 44.634	079 34.087
	27) Concrete culvert pipe	32 44.641	079 34.114
	28) Concrete culvert pipe	32 44.661	079 34.129





PA-22

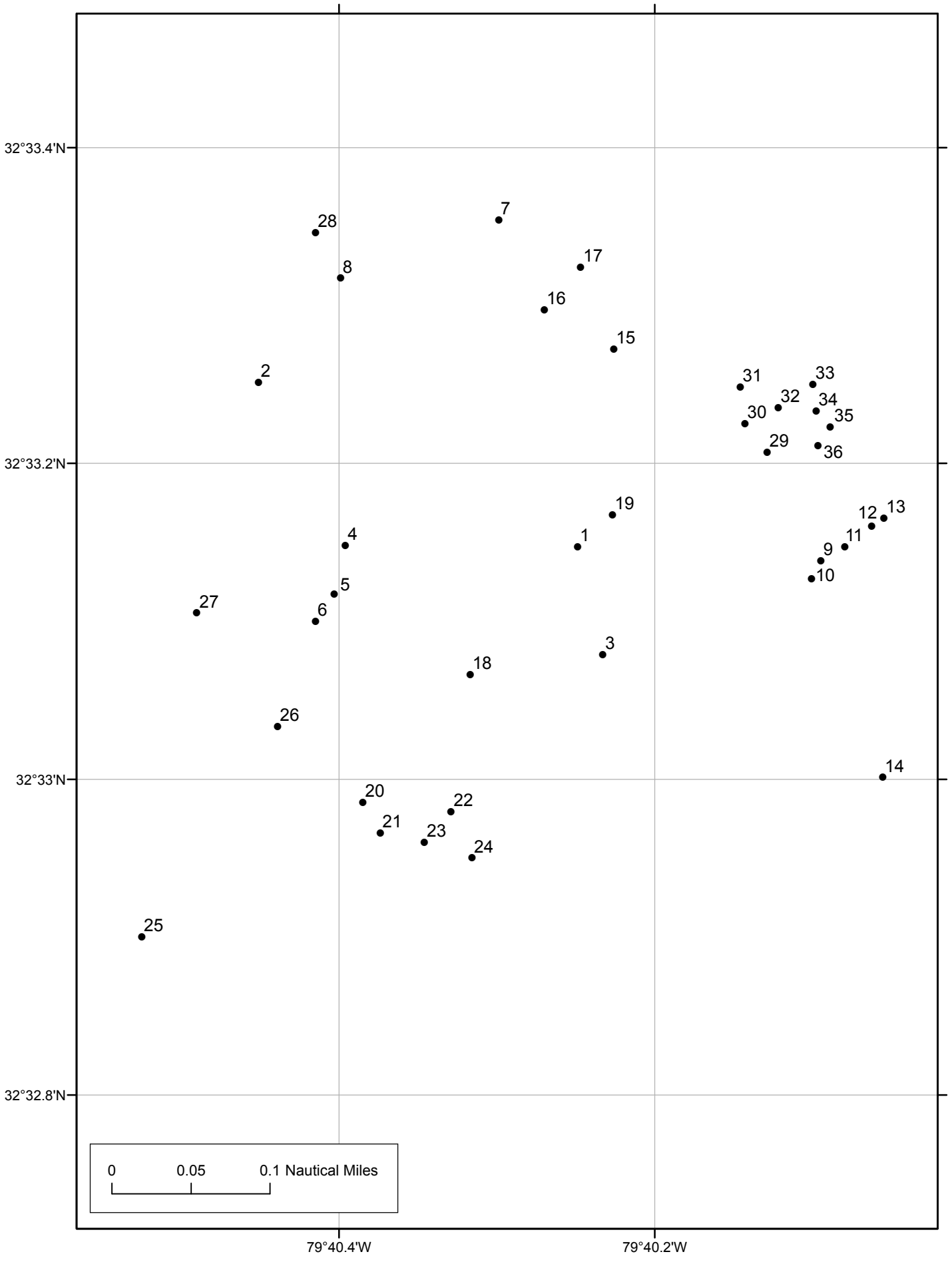

32°45'N
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79°34.2'W
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PA-24

1 buoy marks reef, bearing 145° / 12.5 nm from Charleston Harbor south jetty - water depth 60'

Reef	Structure	Latitude N	Longitude W
	1) Reef Buoy	32 33.147	079 40.249
Charleston 60' Reef	2) 130 Concrete Reef Balls	32 33.251	079 40.451
	3) Equipment sections	32 33.079	079 40.233
	4) Steel pyramids	32 33.148	079 40.396
	5) Steel pyramids	32 33.117	079 40.403
	6) Steel pyramids	32 33.100	079 40.415
	7) 240' Deck barge	32 33.354	079 40.299
	8) Missile sleeves	32 33.317	079 40.399
	9) Army APCs	32 33.138	079 40.095
	10) Army APCs	32 33.127	079 40.101
	11) Army APCs	32 33.147	079 40.080
	12) Army APCs	32 33.160	079 40.063
	13) Army APCs	32 33.165	079 40.055
	14) 110' Deck barge	32 33.001	079 40.056
	15) Steel oil tank	32 33.272	079 40.226
	16) Steel oil tank	32 33.297	079 40.270
	17) Steel oil tank	32 33.324	079 40.247
	18) 120' Deck barge	32 33.066	079 40.317
	19) Steel cable reels	32 33.167	079 40.227
	20) Cooper River Bridge rubble	32 32.985	079 40.385
	21) Cooper River Bridge rubble	32 32.966	079 40.374
	22) Cooper River Bridge rubble	32 32.979	079 40.329
	23) Cooper River Bridge rubble	32 32.960	079 40.346
	24) Cooper River Bridge rubble	32 32.950	079 40.316
	25) Cooper River Bridge rubble	32 32.900	079 40.525
	26) Concrete catch basins	32 33.033	079 40.439
	27) Ronald McDonald House rails	32 33.105	079 40.490
	28) 100' spud barge	32 33.346	079 40.415
Little Joe Shuford Memorial Reef	29) Concrete cones	32 33.207	079 40.129
	30) Concrete cones	32 33.225	079 40.143
	31) Concrete cones	32 33.248	079 40.146
	32) Concrete Reef Balls	32 33.235	079 40.122
	33) Concrete Reef Balls	32 33.250	079 40.100
	34) Concrete Reef Balls	32 33.233	079 40.098
	35) Concrete Reef Balls	32 33.223	079 40.089
	36) Concrete Reef Balls	32 33.211	079 40.097

PA-24


32°33.4'N
32°33.2'N
32°33'N
32°32.8'N
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79°40.2'W
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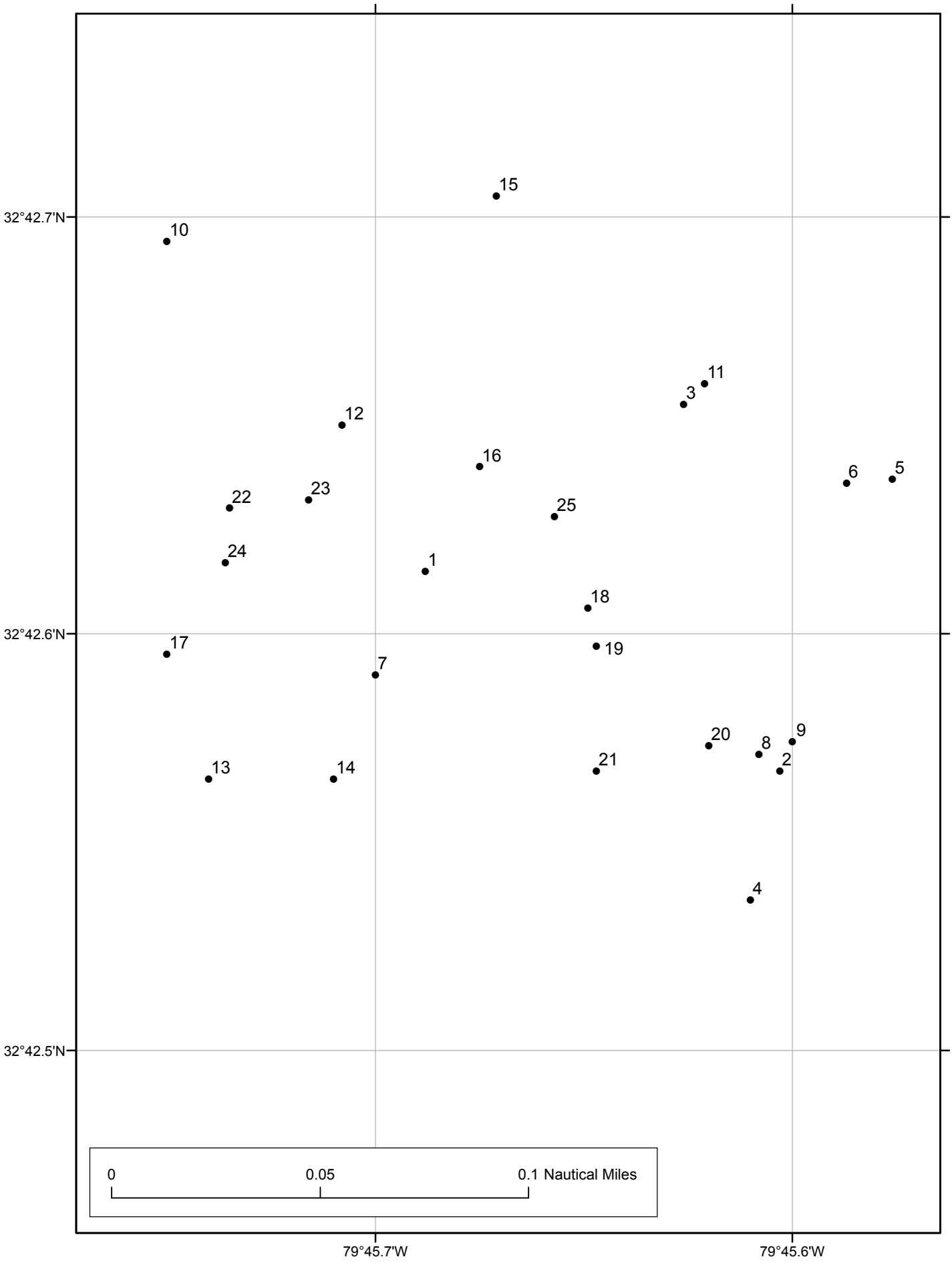
PA-25

1 buoy marks reef, bearing 120° / 2.5 nm from Charleston Harbor north jetty - water depth 30'

Reef	Structure	Latitude N	Longitude W
	1) Reef Buoy	32 42.615	079 45.688
Charleston Nearshore Reef	2) 130' Deck barge	32 42.567	079 45.603
	3) (4) 20' BK barges	32 42.655	079 45.626
	4) Concrete rubble	32 42.536	079 45.610
	5) Missile ballast cans	32 42.637	079 45.576
	6) Missile ballast cans	32 42.636	079 45.587
	7) Missile motor cradles	32 42.590	079 45.700
	8) 105' Deck barge	32 42.571	079 45.608
	9) 100' Deck barge	32 42.574	079 45.600
	10) Cooper River Bridge rubble	32 42.694	079 45.750
	11) Cooper River Bridge rubble	32 42.660	079 45.621
	12) Cooper River Bridge rubble	32 42.650	079 45.708
	13) Cooper River Bridge rubble	32 42.565	079 45.740
	14) Cooper River Bridge rubble	32 42.565	079 45.710
	15) 180' Deck barge	32 42.705	079 45.671
	16) 100 Concrete ballast blocks	32 42.640	079 45.675
	17) Concrete material	32 42.595	079 45.750
Air Force Reef	18) CAFB runway rubble	32 42.606	079 45.649
	19) CAFB runway rubble	32 42.597	079 45.647
	20) CAFB runway rubble	32 42.573	079 45.620
	21) CAFB runway rubble	32 42.567	079 45.647
Charleston Coastal Anglers Reef	22) 130' Deck barge	32 42.630	079 45.735
	23) Concrete pyramids	32 42.632	079 45.716
	24) Concrete pyramids	32 42.617	079 45.736
Charleston Community Reef	25) Concrete reef balls	32 42.628	079 45.657



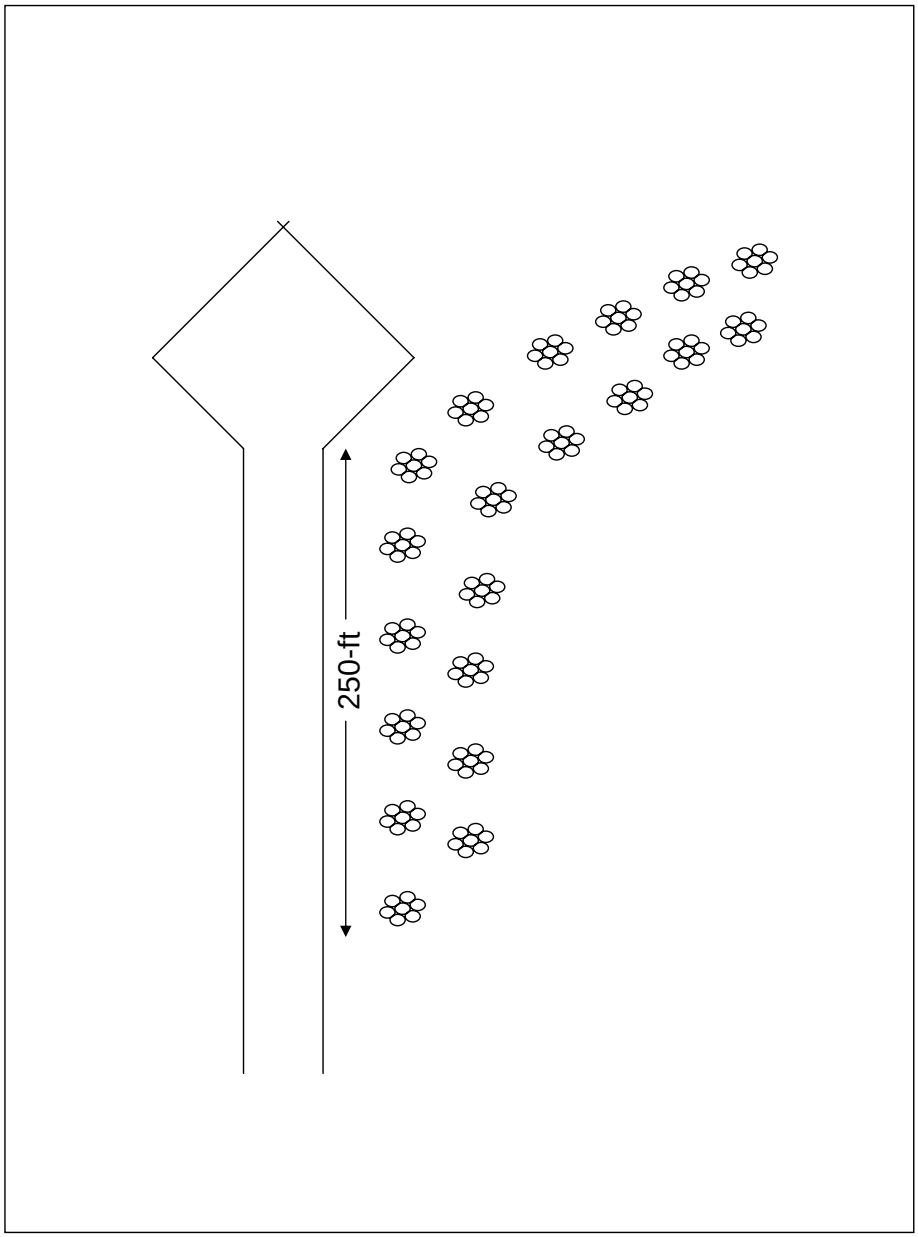
PA-25


32°42.7'N
32°42.6'N
32°42.5'N
79°45.7'W
79°45.6'W
15
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0.05
0.1 Nautical Miles

PA-26

unmarked reef, located along south side of Folly Beach Fishing Pier - water depth 14 - 20'

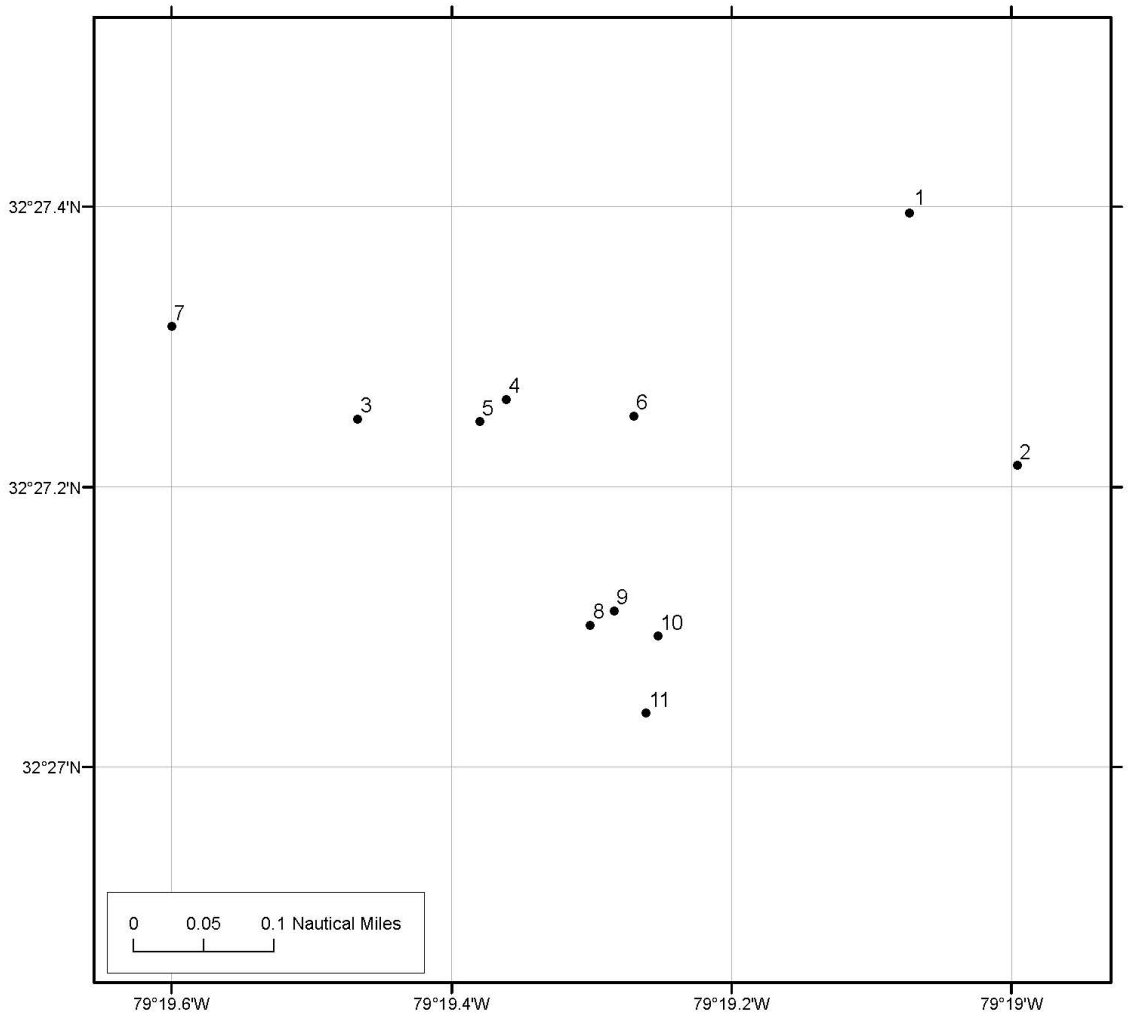
Reef	Structure
Folly Beach Fishing Pier Reef	200 Concrete reef balls, arranged in 20 clusters of 10 reef balls each



PA-27

unmarked reef, bearing 135° / 22.5 nm from Charleston Harbor channel buoy 'C' - water depth 105'

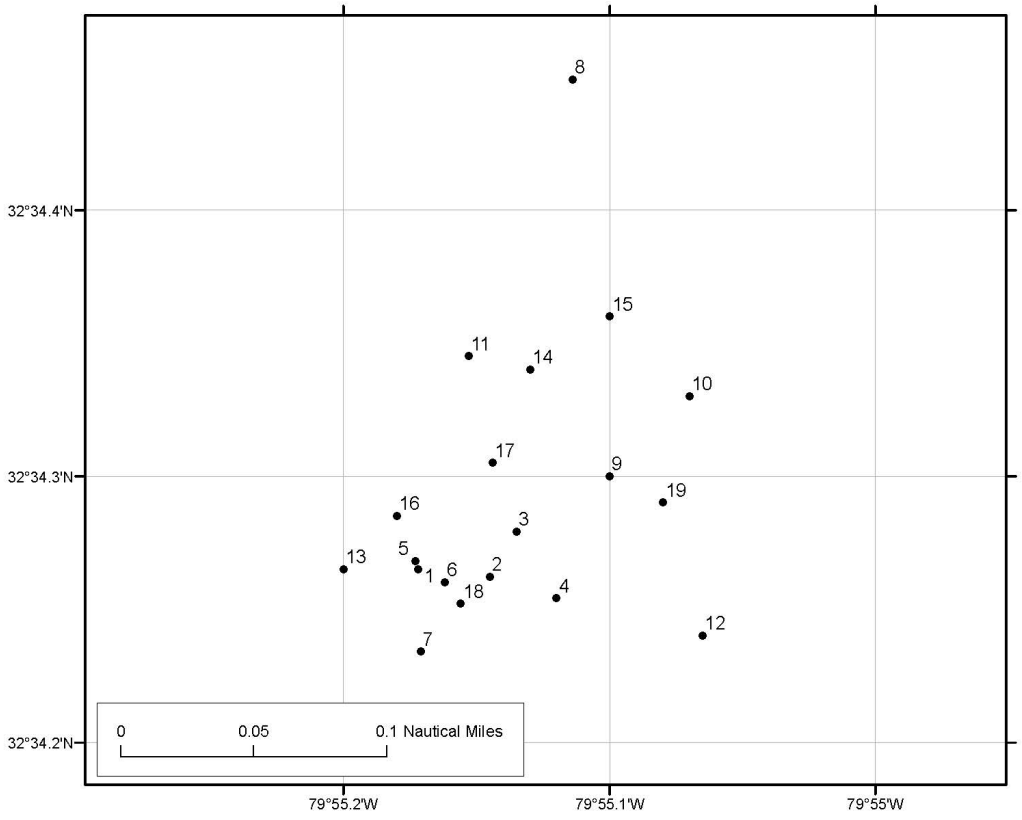
Reef	Structure	Latitude N	Longitude W
Comanche Reef	1) 165' Ship (Comanche)	32 27.395	079 19.073
	2) 105' Tug (Anne Richards)	32 27.215	079 18.996
	3) Cooper River Bridge rubble	32 27.248	079 19.467
	4) Cooper River Bridge rubble	32 27.262	079 19.361
	5) Cooper River Bridge rubble	32 27.246	079 19.380
	6) Cooper River Bridge rubble	32 27.250	079 19.270
	7) 80' Trawler (Nanami)	32 27.314	079 19.600
Doug Mellichamp Jr. Reef	8) NYCT Subway cars	32 27.101	079 19.301
	9) NYCT Subway cars	32 27.111	079 19.284
	10) NYCT Subway cars	32 27.093	079 19.253
	11) NYCT Subway cars	32 27.038	079 19.261

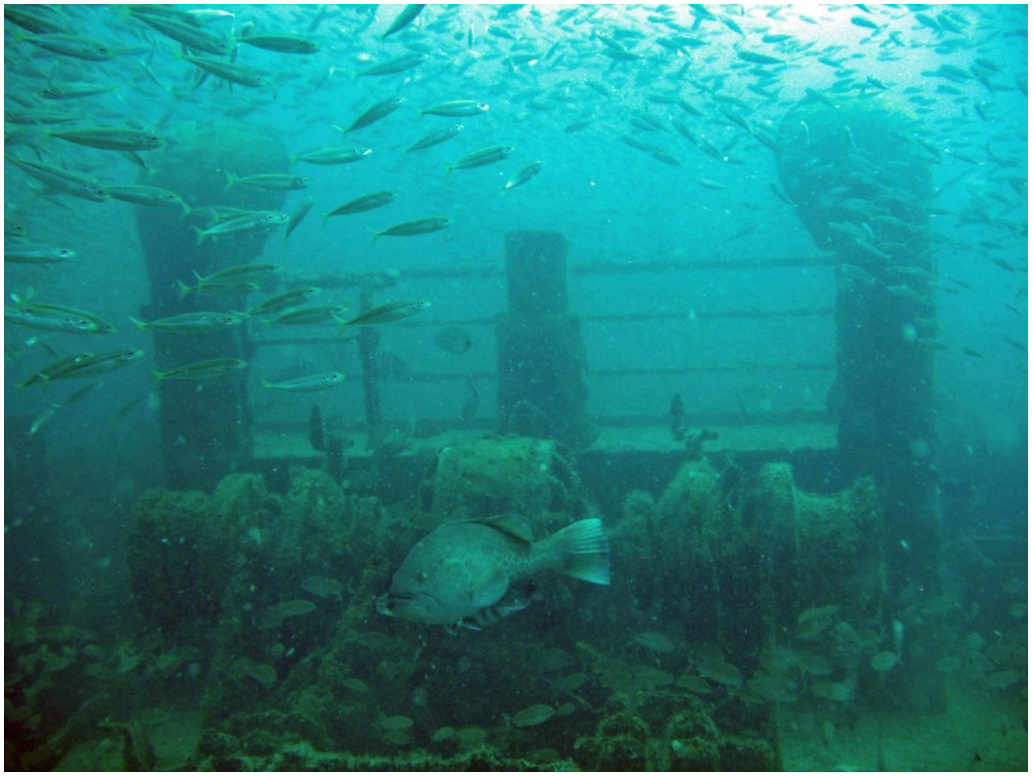


PA-28

1 buoy marks reef, bearing 131° / 2.4 nm from Stono Inlet buoy '1S' - water depth 40'

Reef	Structure	Latitude N	Longitude W
	1) Reef Buoy	32 34.265	079 55.172
Lowcountry Anglers' Reef	2) Concrete pyramids	32 34.262	079 55.145
	3) Concrete pyramids	32 34.279	079 55.135
	4) Concrete pyramids	32 34.254	079 55.120
	5) CAFB runway rubble	32 34.268	079 55.173
	6) CAFB runway rubble	32 34.260	079 55.162
	7) CAFB runway rubble	32 34.234	079 55.171
	8) 50' Houseboat	32 34.449	079 55.114
	9) CPW concrete	32 34.300	079 55.100
	10) Limehouse bridge rubble	32 34.330	079 55.070
	11) Cooper River Bridge rubble	32 34.345	079 55.153
	12) Cooper River Bridge rubble	32 34.240	079 55.065
	13) Cooper River Bridge rubble	32 34.265	079 55.200
	14) Cooper River Bridge rubble	32 34.340	079 55.130
	15) Cooper River Bridge rubble	32 34.360	079 55.100
	16) Concrete rubble	32 34.285	079 55.180
	17) Concrete rubble	32 34.305	079 55.144
	18) Concrete culvert pipe	32 34.252	079 55.156
	19) Concrete blocks & slabs	32 34.290	079 55.080



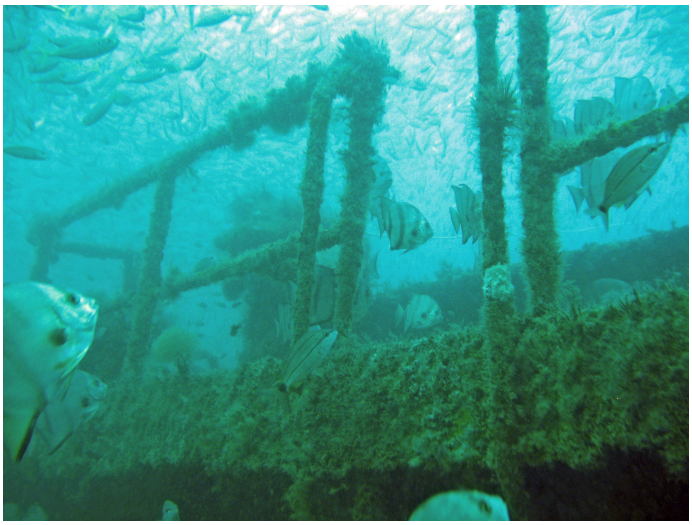




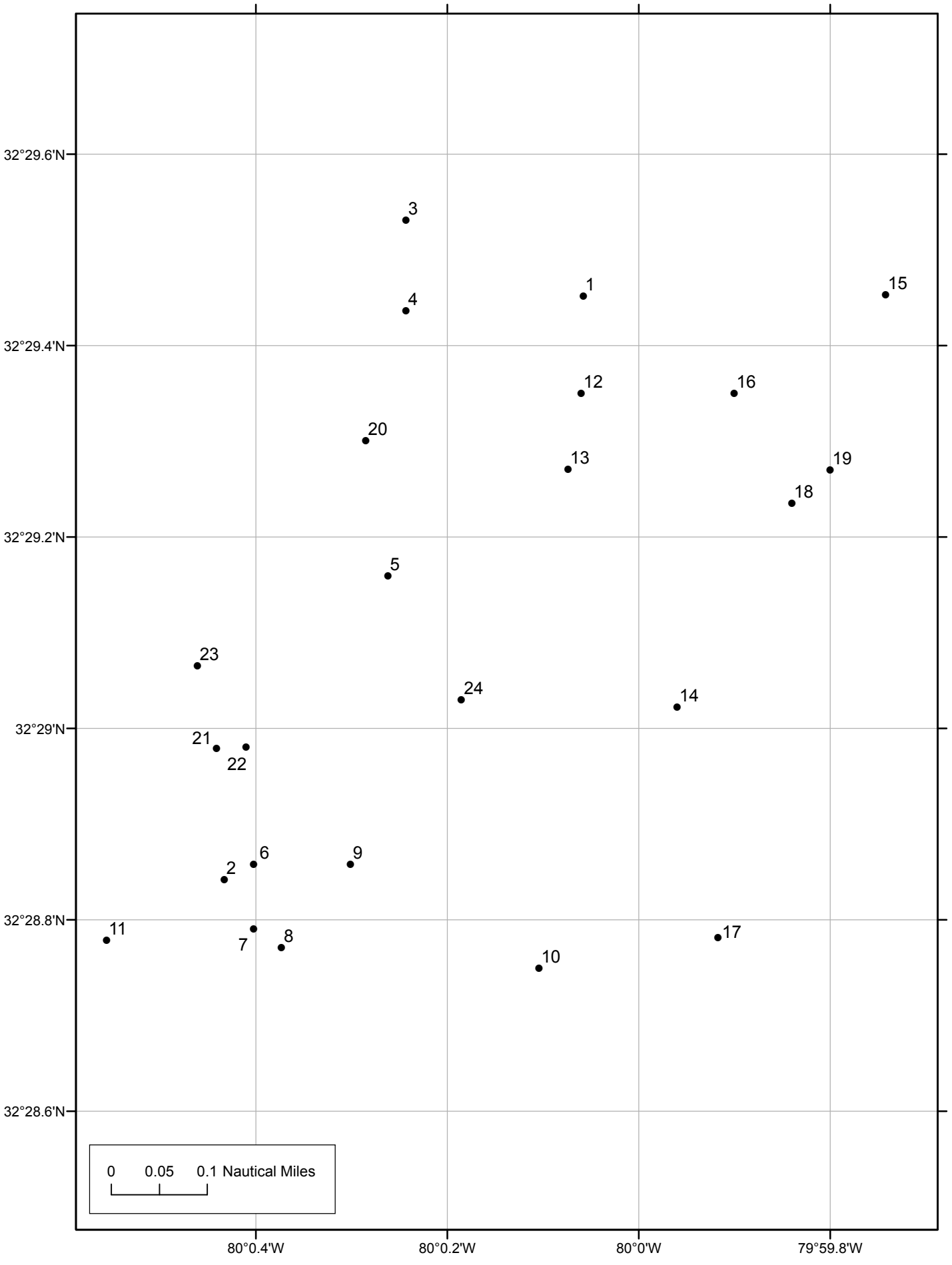
PA-29

2 buoys mark reef, bearing 115° / 6.5 nm from North Edisto channel buoy '2NE' - water depth 40'

Reef	Structure	Latitude N	Longitude W
	1) North Buoy	32 29.451	080 00.058
	2) South Buoy	32 28.842	080 00.433
Kiawah Reef (4KI)	3) 300' Hopper barge	32 29.531	080 00.243
	4) 260' Deck barge	32 29.436	080 00.243
	5) 62' Lash barge	32 29.159	080 00.262
	6) 150' Drydock	32 28.858	080 00.402
	7) 100' Deck barge	32 28.790	080 00.402
	8) 100' Pusher tug	32 28.771	080 00.373
	9) 90' Tug (Coppedge)	32 28.858	080 00.301
	10) 200' Deck barge	32 28.749	080 00.104
	11) 110' and120' barges	32 28.778	080 00.556
	12) 100 Concrete cones	32 29.350	080 00.060
	13) 437' Ship hull (Robison)	32 29.271	080 00.074
	14) Limehouse Bridge rubble	32 29.022	079 59.960
	15) 310' Deck barge	32 29.453	079 59.742
	16) Cooper River Bridge Rubble	32 29.350	079 59.900
	17) Cooper River Bridge Rubble	32 28.781	079 59.917
	18) Cooper River Bridge Rubble	32 29.235	079 59.840
	19) Cooper River Bridge Rubble	32 29.270	079 59.800
	20) Concrete ballast blocks	32 29.300	080 00.285
	21) Concrete rubble	32 28.979	080 00.441
	22) Concrete rubble	32 28.980	080 00.410
	23) Concrete rubble	32 29.065	080 00.461
	24) Concrete rubble	32 29.030	080 00.185



PA-29


32°29.6'N
32°29.4'N
32°29.2'N
32°29'N
32°28.8'N
32°28.6'N
80°0.4'W
80°0.2'W
80°0'W
79°59.8'W
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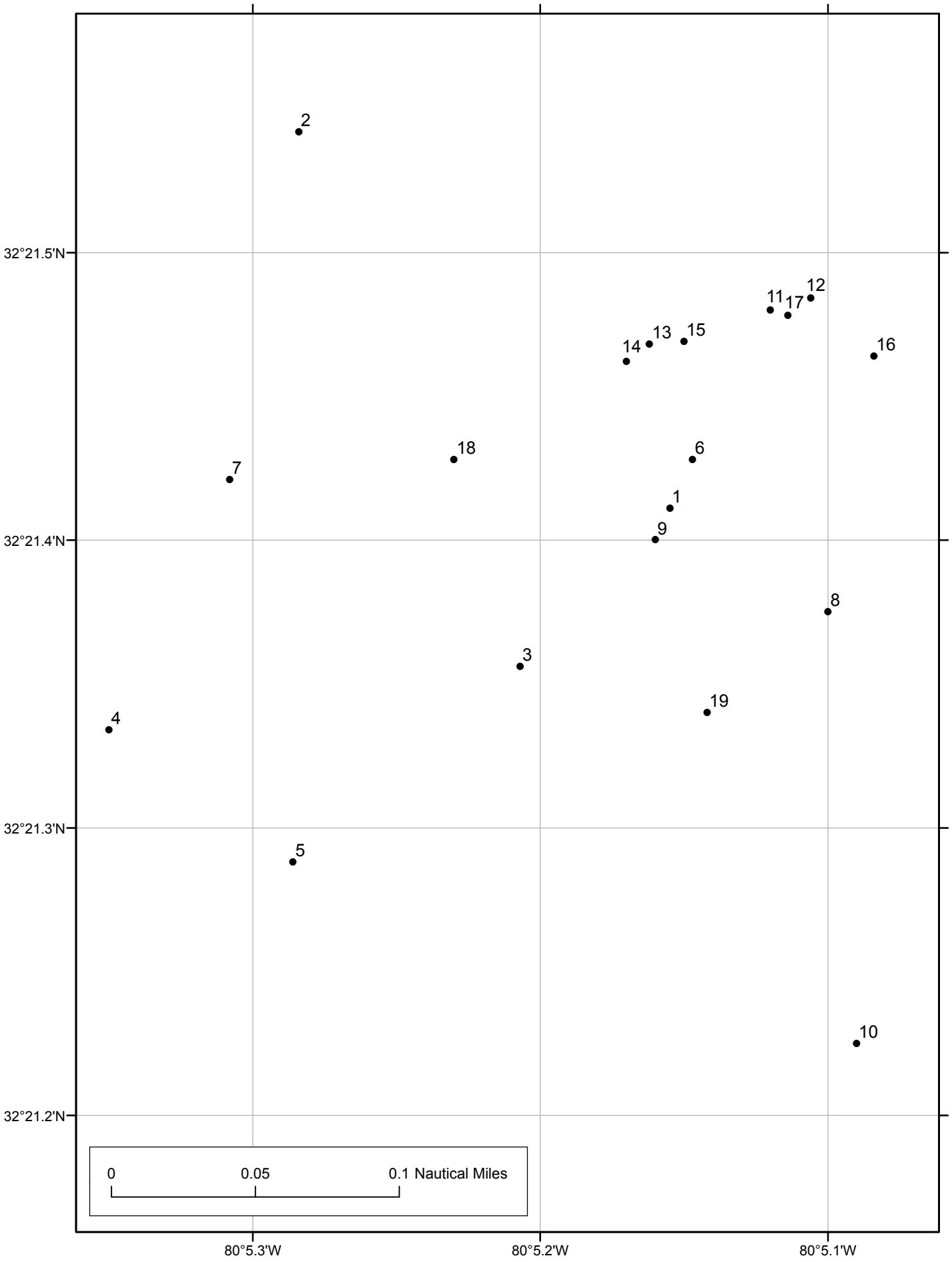
PA-30

1 buoy marks reef, bearing 167° / 10.5 nm from North Edisto channel buoy '2NE' - water depth 65'

Reef	Structure	Latitude N	Longitude W
	1) Reef Buoy	32 21.411	080 05.155
Edisto 60' Reef	2) 330' Ship (Page)	32 21.542	080 05.284
	3) Bridge section	32 21.356	080 05.207
	4) Bridge section	32 21.334	080 05.350
	5) Bridge section	32 21.288	080 05.286
	6) Steel yarn racks	32 21.428	080 05.147
	7) 264' Ship (YDT-16)	32 21.421	080 05.308
	8) 20 Shipping containers	32 21.375	080 05.100
	9) Cooper River Bridge rubble	32 21.400	080 05.160
	10) Cooper River Bridge rubble	32 21.225	080 05.090
	11) Army APC's	32 21.480	080 05.120
	12) Army APC's	32 21.484	080 05.106
	13) Army APC's	32 21.468	080 05.162
	14) Army APC's	32 21.462	080 05.170
	15) Army APC's	32 21.469	080 05.150
	16) Army APC's	32 21.464	080 05.084
	17) Army APC's	32 21.478	080 05.114
	18) Army APC's	32 21.428	080 05.230
	19) Concrete culvert pipe	32 21.340	080 05.142



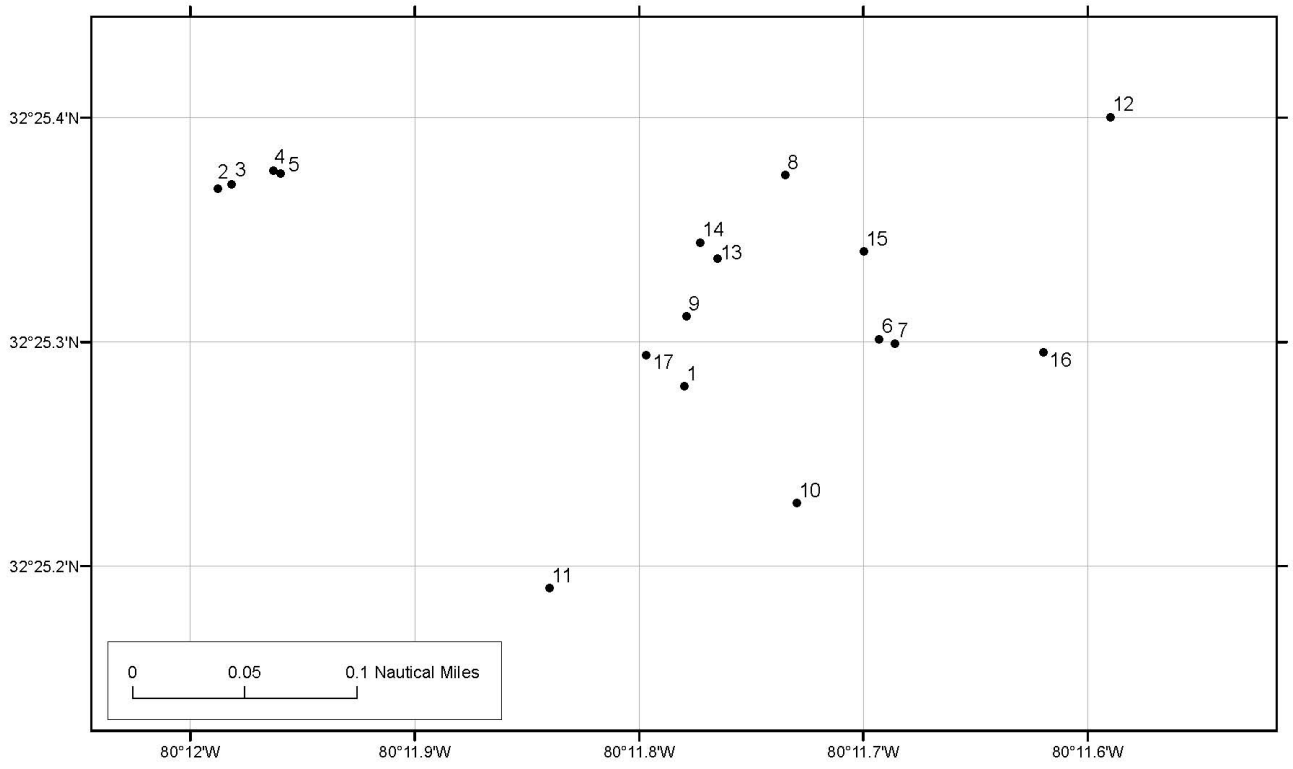
PA-30


2
32°21.5'N
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12
17
13
15
14
16
18
6
7
1
9
32°21.4'N
8
3
19
4
32°21.3'N
5
10
32°21.2'N
0
0.05
0.1 Nautical Miles
80°5.3'W
80°5.2'W
80°5.1'W

PA-31

1 buoy marks reef, bearing 209° / 6.5 nm from North Edisto channel buoy '2NE' - water depth 45'

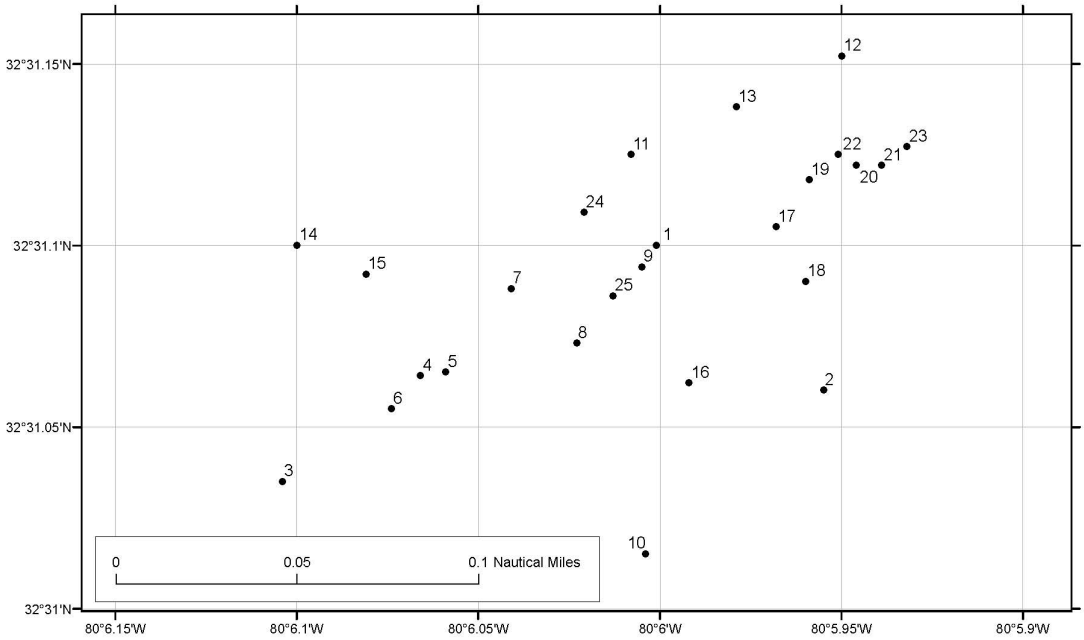
Reef	Structure	Latitude N	Longitude W
	1) Reef Buoy	32 25.280	080 11.780
CCA-Edisto 40' Reef	2) Army APCs	32 25.368	080 11.988
	3) Army APCs	32 25.370	080 11.982
	4) Army APCs	32 25.376	080 11.963
	5) Army APCs	32 25.375	080 11.960
	6) Concrete rubble	32 25.301	080 11.693
	7) Concrete rubble	32 25.299	080 11.686
	8) 200 Concrete reef balls	32 25.374	080 11.735
	9) Concrete culvert pipe	32 25.311	080 11.779
	10) Limehouse Bridge rubble	32 25.228	080 11.730
	11) Cooper River Bridge rubble	32 25.190	080 11.840
	12) Cooper River Bridge rubble	32 25.400	080 11.590
	13) 80' Crane barge	32 25.337	080 11.765
	14) Crane	32 25.344	080 11.773
	15) Concrete pipes & cubes	32 25.340	080 11.700
	16) 50' Catamaran barge	32 25.295	080 11.620
	17) 50' Deck barge	32 25.294	080 11.797



PA-32

1 buoy marks reef, bearing 090° / 1.5 nm from North Edisto channel buoy '2NE' - water depth 30'

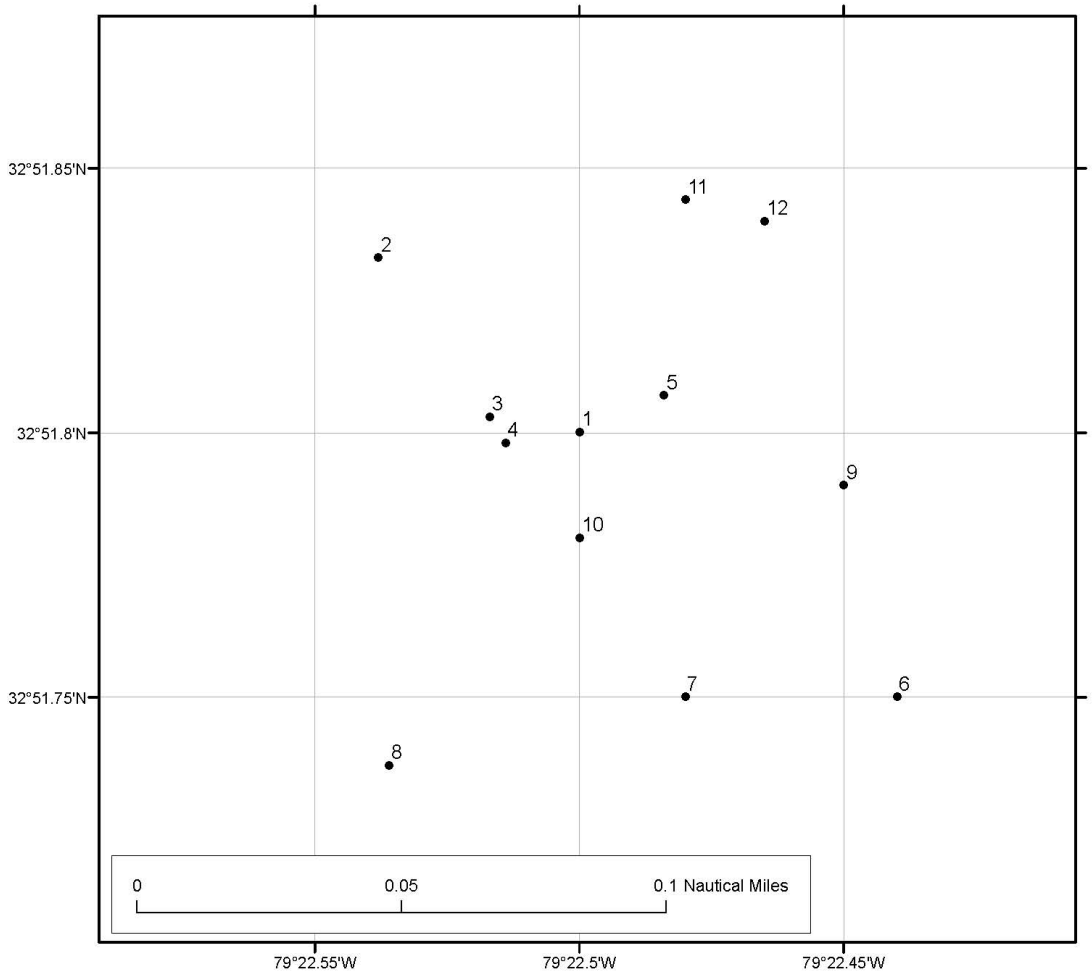
Reef	Structure	Latitude N	Longitude W
	1) Reef Buoy	32 31.100	080 06.001
N. Edisto Nearshore Reef	2) 150' Deck barge	32 31.060	080 05.955
	3) 110' Deck barge	32 31.035	080 06.104
	4) Concrete pyramids	32 31.064	080 06.066
	5) Concrete pyramids	32 31.065	080 06.059
	6) Concrete pyramids	32 31.055	080 06.074
	7) 3 Army tanks	32 31.088	080 06.041
	8) Shipping containers	32 31.073	080 06.023
	9) Shipping containers	32 31.094	080 06.005
	10) Concrete rubble	32 31.015	080 06.004
	11) Limehouse Bridge rubble	32 31.125	080 06.008
	12) Limehouse Bridge rubble	32 31.152	080 05.950
	13) Limehouse Bridge rubble	32 31.138	080 05.979
	14) Cooper River Bridge rubble	32 31.100	080 06.100
	15) Cooper River Bridge rubble	32 31.092	080 06.081
	16) 20' Deck barge	32 31.062	080 05.992
	17) 2-ton concrete blocks	32 31.105	080 05.968
	18) Concrete blocks	32 31.090	080 05.960
	19) Concrete cylinders	32 31.118	080 05.959
	20) Concrete cylinders	32 31.122	080 05.946
	21) Concrete cylinders	32 31.122	080 05.939
	22) Concrete cylinders	32 31.125	080 05.951
	23) Concrete cylinders	32 31.127	080 05.932
	24) Concrete rubble	32 31.109	080 06.021
	25) Concrete rubble	32 31.086	080 06.013



PA-34

1 buoy marks reef, bearing 138° / 9 nm from Sandy Point channel buoy R"2" - water depth 47'

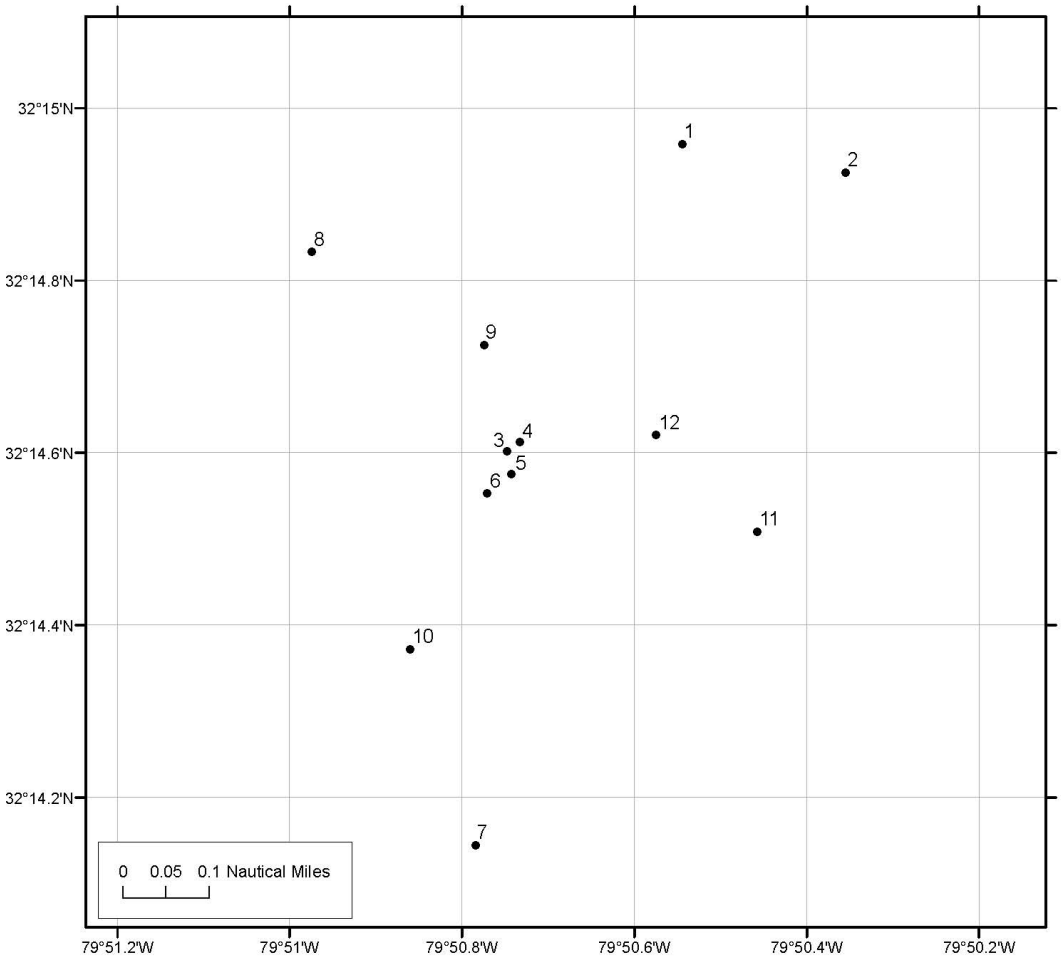
Reef	Structure	Latitude N	Longitude W
	1) Reef Buoy	32 51.800	079 22.500
CCA-McClellanville Reef	2) Concrete & steel rubble	32 51.833	079 22.538
	3) Concrete & steel rubble	32 51.803	079 22.517
	4) Concrete & steel rubble	32 51.798	079 22.514
	5) 105' Tugboat (Capt Morgan)	32 51.807	079 22.484
	6) Cooper River Bridge rubble	32 51.750	079 22.440
	7) Cooper River Bridge rubble	32 51.750	079 22.480
	8) Cooper River Bridge rubble	32 51.737	079 22.536
	9) Cooper River Bridge rubble	32 51.790	079 22.450
	10) 50 concrete culvert pipes	32 51.780	079 22.500
Jimmy Leland Reef	11) 45' Tugboat (Duane Merritt)	32 51.844	079 22.480
	12) 85 concrete culvert pipes	32 51.840	079 22.465



PA-36

unmarked reef, bearing 141° / 21.5 nm from North Edisto channel buoy '2NE' - water depth 80'

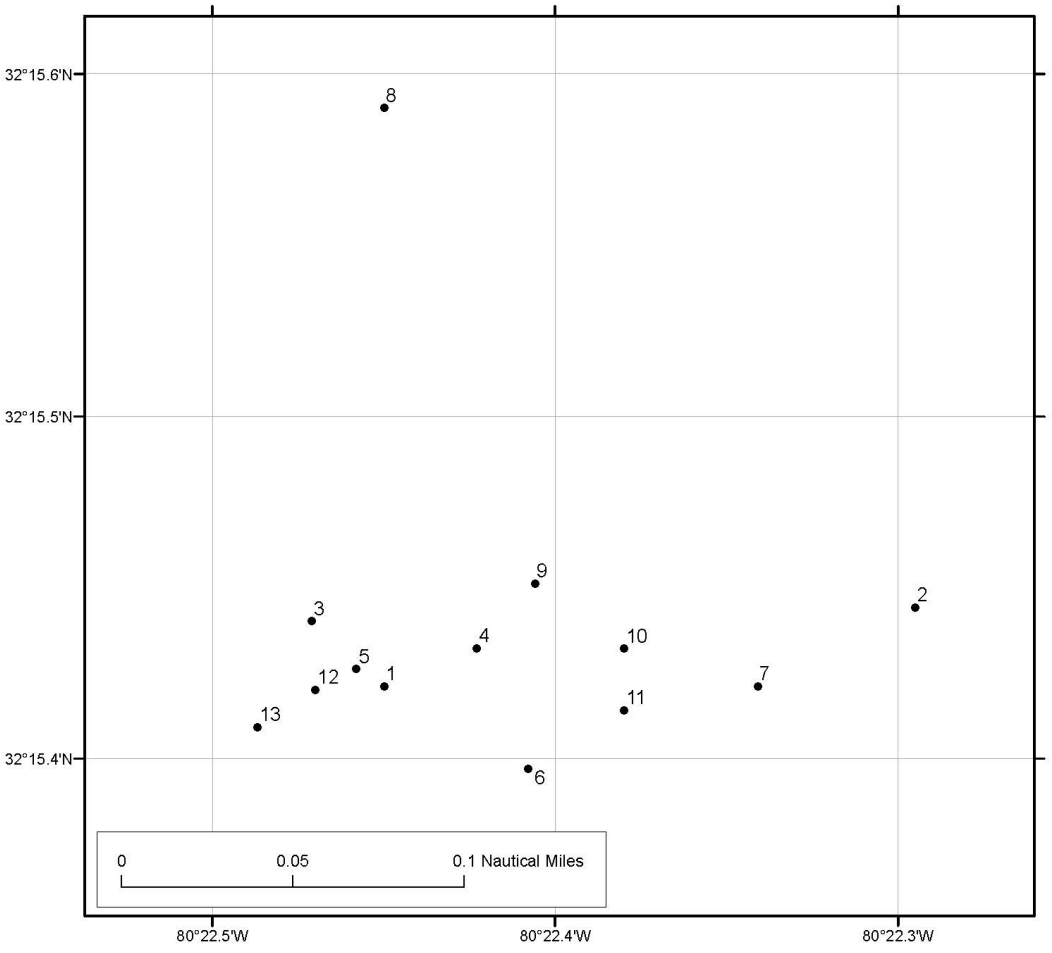
Reef	Structure	Latitude N	Longitude W
Edisto Offshore Reef	1) 145' ship (Researcher)	32 14.958	079 50.545
	2) 65' Barge deckhouse	32 14.925	079 50.355
	3) Shipping containers	32 14.601	079 50.748
	4) Shipping containers	32 14.612	079 50.733
	5) Shipping containers	32 14.575	079 50.743
	6) Shipping containers	32 14.552	079 50.771
	7) 90' Tugboat (Waban)	32 14.144	079 50.785
	8) Cooper River Bridge rubble	32 14.833	079 50.975
	9) Cooper River Bridge rubble	32 14.725	079 50.775
	10) Cooper River Bridge rubble	32 14.371	079 50.861
	11) 60' Trawler (Forgiven)	32 14.508	079 50.458
	12) Concrete culvert pipe	32 14.620	079 50.575



PA-38

1 buoy marks reef, bearing 140° / 5.8 nm from Fripp Inlet - water depth 45'

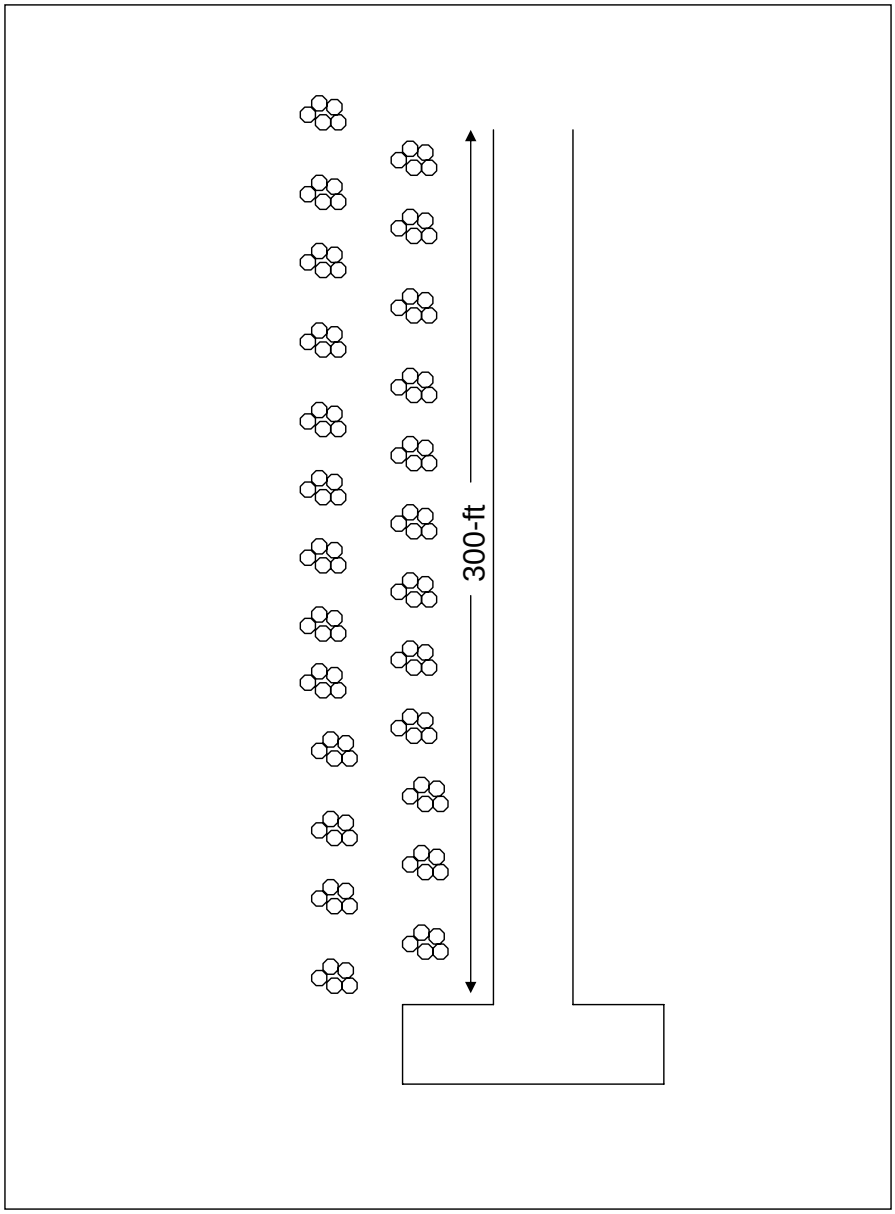
Reef	Structure	Latitude	Longitude
		N	W
	1) Reef Buoy	32 15.421	080 22.450
Fripp Island Reef	2) 200 Concrete reef balls	32 15.444	080 22.295
	3) Concrete Zs	32 15.440	080 22.471
	4) Concrete Zs	32 15.432	080 22.423
	5) Concrete Zs	32 15.426	080 22.458
	6) 100' Deck barge	32 15.397	080 22.408
	7) 120' Deck barge	32 15.421	080 22.341
	8) 40' Deck barge	32 15.590	080 22.450
	9) Army APCs	32 15.451	080 22.406
	10) Army APCs	32 15.432	080 22.380
	11) Army APCs	32 15.414	080 22.380
	12) Army APCs	32 15.420	080 22.470
	13) Army APCs	32 15.409	080 22.487



PA-39

unmarked reef, located adjacent to the Hunting Island State Park Fishing Pier - water depth 18 - 28'

Reef	Structure
Hunting Island State Park Fishing Pier Reef	125 Concrete cones, arranged in 25 clusters of 5 cones each



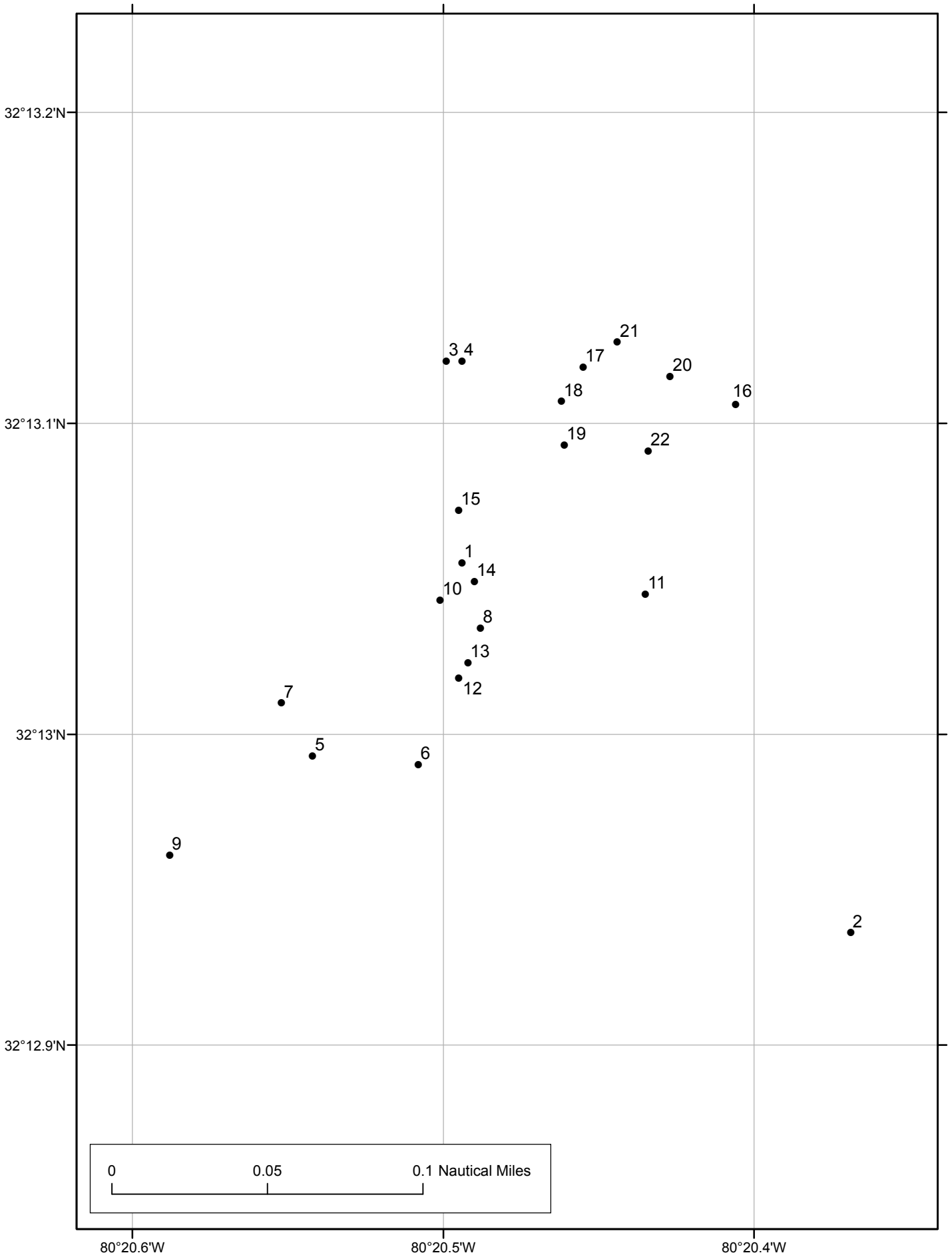
PA-40

1 buoy marks reef, bearing 144° / 8.5 nm from Fripp Inlet - water depth 50'

Reef	Structure	Latitude N	Longitude W
	1) Reef Buoy	32 13.055	080 20.494
Hunting Island Reef (6HI)	2) 200' Hopper barge	32 12.936	080 20.369
	3) 56' Landing craft	32 13.120	080 20.499
	4) 56' Landing craft	32 13.120	080 20.494
	5) Shipping containers	32 12.993	080 20.542
	6) Shipping containers	32 12.990	080 20.508
	7) Shipping containers	32 13.010	080 20.552
	8) Shipping containers	32 13.034	080 20.488
	9) Shipping containers	32 12.961	080 20.588
	10) Concrete cones	32 13.043	080 20.501
	11) Concrete cones	32 13.045	080 20.435
	12) Concrete cones	32 13.018	080 20.495
	13) Concrete cones	32 13.023	080 20.492
	14) Concrete cones	32 13.049	080 20.490
	15) Concrete cones	32 13.072	080 20.495
	16) Army APCs	32 13.106	080 20.406
	17) Army APCs	32 13.118	080 20.455
	18) Army APCs	32 13.107	080 20.462
	19) Army APCs	32 13.093	080 20.461
	20) Army APCs	32 13.115	080 20.427
	21) Army APCs	32 13.126	080 20.444
	22) (4) 80' BK barges	32 13.091	080 20.434



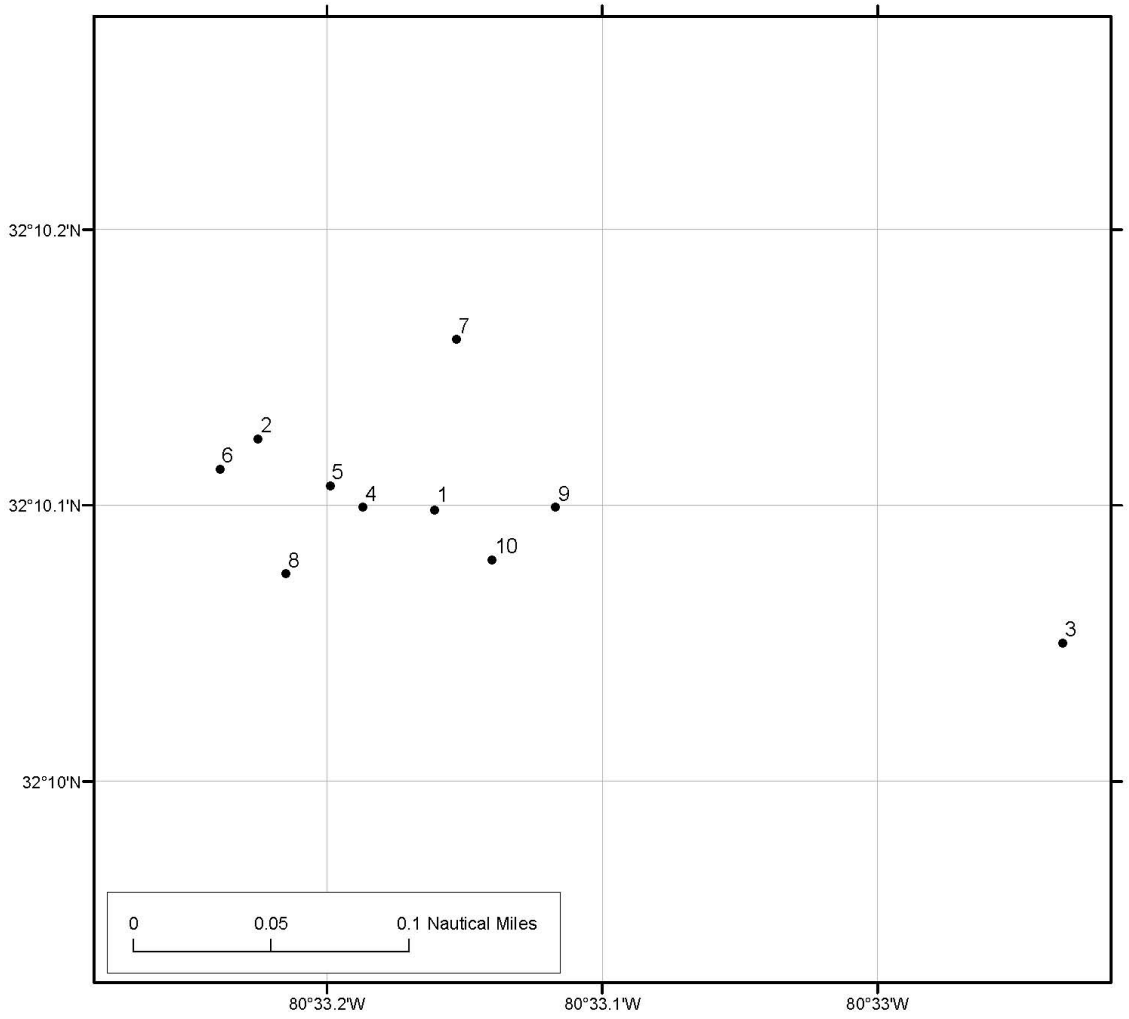
PA-40


32°13.2'N
32°13.1'N
32°13'N
32°12.9'N
80°20.6'W
80°20.5'W
80°20.4'W
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0.05
0.1 Nautical Miles

PA-41

1 buoy marks reef, bearing 093° / 2.2 nm from Port Royal channel buoy '14' - water depth 18'

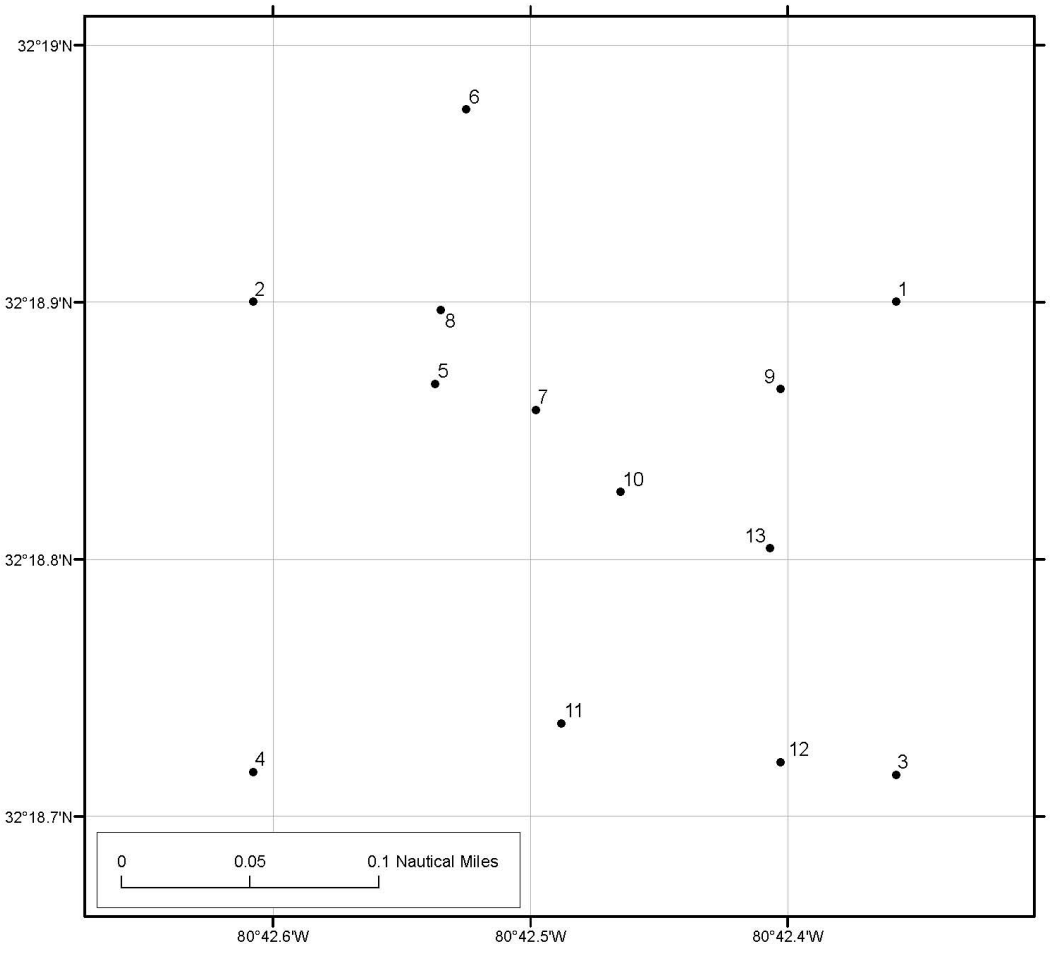
Reef	Structure	Latitude N	Longitude W
	1) Reef Buoy	32 10.098	080 33.161
General Gordon Reef	2) General Gordon wreck	32 10.124	080 33.225
	3) 40' Deck barge	32 10.050	080 32.933
	4) Concrete Zs	32 10.099	080 33.187
	5) Concrete Zs	32 10.107	080 33.199
	6) Concrete Zs	32 10.113	080 33.239
	7) Broad River Bridge rubble	32 10.160	080 33.153
	8) Concrete culvert pipe	32 10.075	080 33.215
	9) Reef balls & concrete blocks	32 10.099	080 33.117
	10) Steel structures	32 10.080	080 33.140



PA-43

4 buoys mark reef, located in Broad River between Parris Island and Daws Island - water depth 15' - 35'

Reef	Structure	Latitude	Longitude
		N	W
	1) NE Reef Buoy	32 18.900	080 42.358
	2) NW Reef Buoy	32 18.900	080 42.608
	3) SE Reef Buoy	32 18.716	080 42.358
	4) SW Reef Buoy	32 18.717	080 42.608
Parris Island Reef	5) 40' Deck barge	32 18.868	080 42.537
	6) 50' Landing craft	32 18.975	080 42.525
	7) Concrete rubble	32 18.858	080 42.498
	8) Concrete rubble	32 18.897	080 42.535
	9) Broad River Bridge rubble	32 18.866	080 42.403
	10) Broad River Bridge rubble	32 18.826	080 42.465
	11) Broad River Bridge rubble	32 18.736	080 42.488
	12) Broad River Bridge rubble	32 18.721	080 42.403
	13) 100' Deck barge	32 18.804	080 42.407



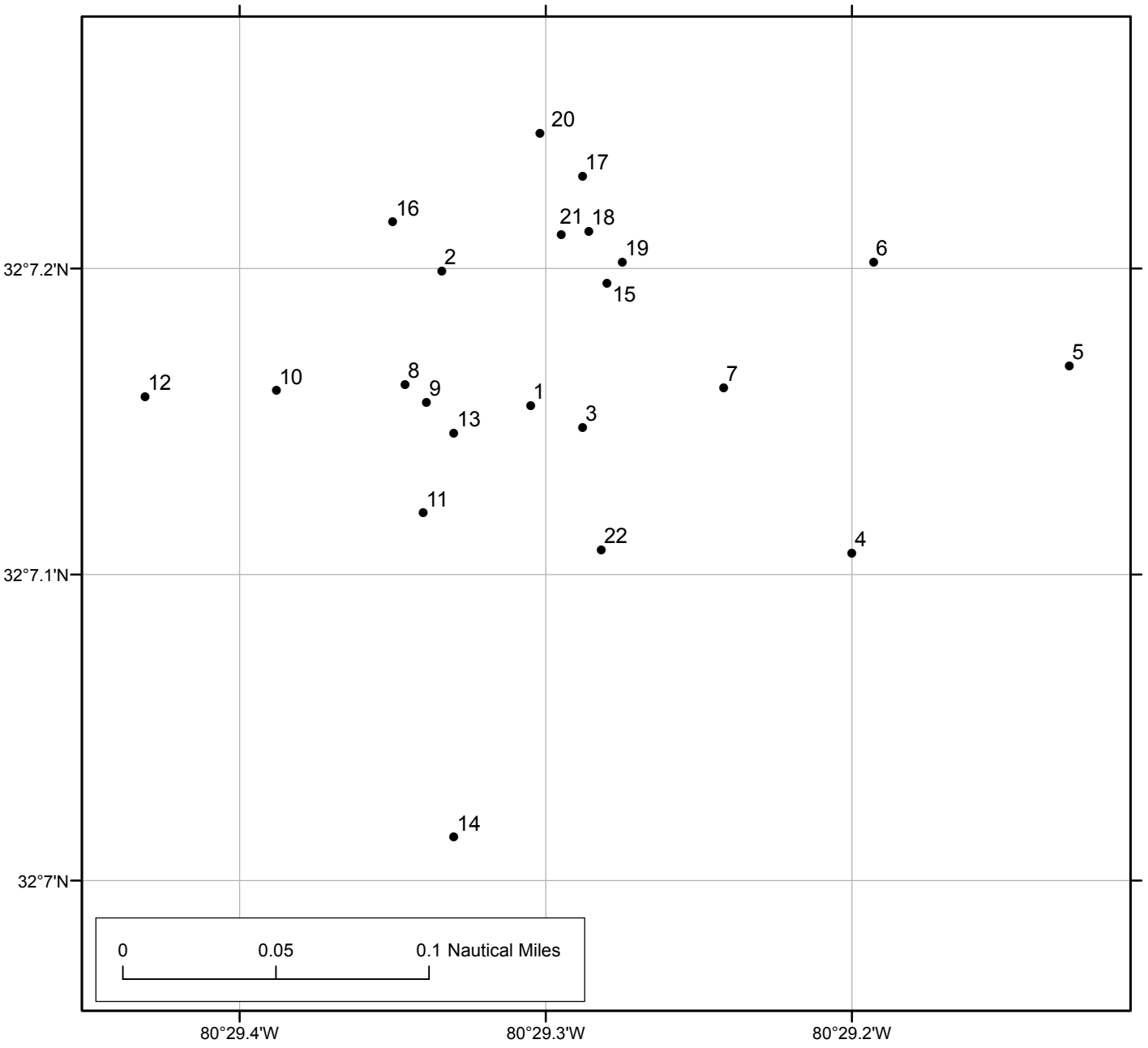
PA-42

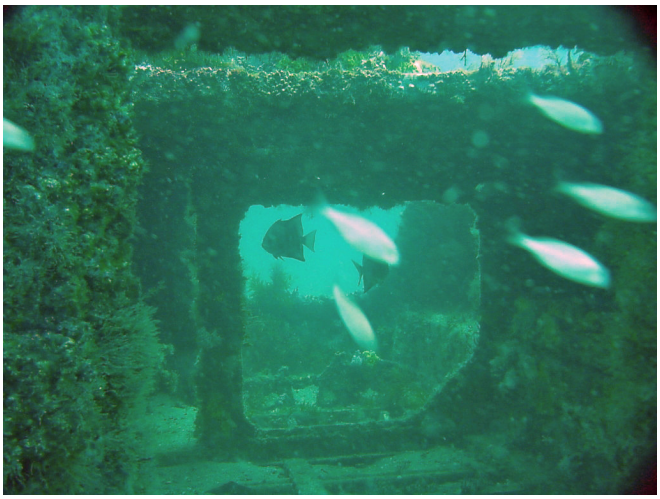
1 buoy marks reef, bearing 123° / 5.8 nm from Port Royal channel buoy '14' - water depth 45'

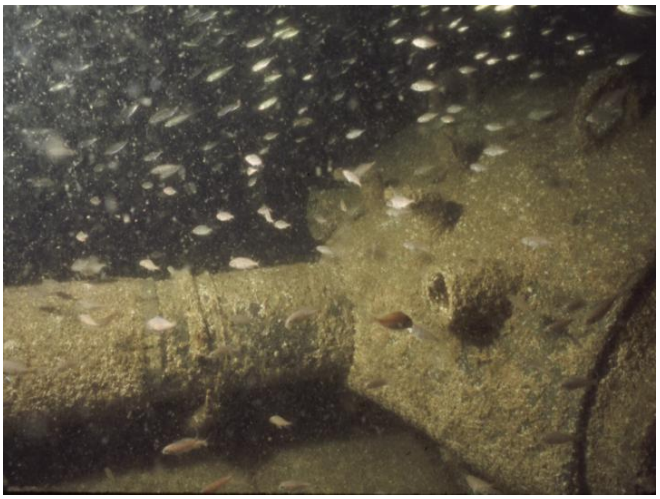
Reef	Structure	Latitude N	Longitude W
	1) Reef Buoy	32 07.155	080 29.305
Beaufort 45' Reef	2) 200 Concrete reef balls	32 07.199	080 29.334
	3) Army tanks and APCs	32 07.148	080 29.288
	4) Army tanks and APCs	32 07.107	080 29.200
	5) Army tanks and APCs	32 07.168	080 29.129
	6) Army tanks and APCs	32 07.202	080 29.193
	7) Army tanks and APCs	32 07.161	080 29.242
	8) Concrete Zs	32 07.162	080 29.346
	9) Concrete Zs	32 07.156	080 29.339
	10) 106' Fuel barge	32 07.160	080 29.388
	11) Concrete culvert pipe	32 07.120	080 29.340
	12) Broad River bridge rubble	32 07.158	080 29.431
	13) Broad River bridge rubble	32 07.146	080 29.330
	14) Broad River bridge rubble	32 07.014	080 29.330
	15) 100' Deck barge	32 07.195	080 29.280
	16) Army APC's	32 07.215	080 29.350
	17) Army APC's	32 07.230	080 29.288
	18) Army APC's	32 07.212	080 29.286
	19) Army APC's	32 07.202	080 29.275
	20) Army APC's	32 07.244	080 29.302
	21) Army APC's	32 07.211	080 29.295
	22) Concrete culvert pipe	32 07.108	080 29.282



PA-42


20
17
16
21
18
19
6
2
15
5
12
10
8
9
1
7
13
3
11
22
4
14
32°7.2'N
32°7.1'N
32°7'N
0
0.05
0.1 Nautical Miles
80°29.4'W
80°29.3'W
80°29.2'W

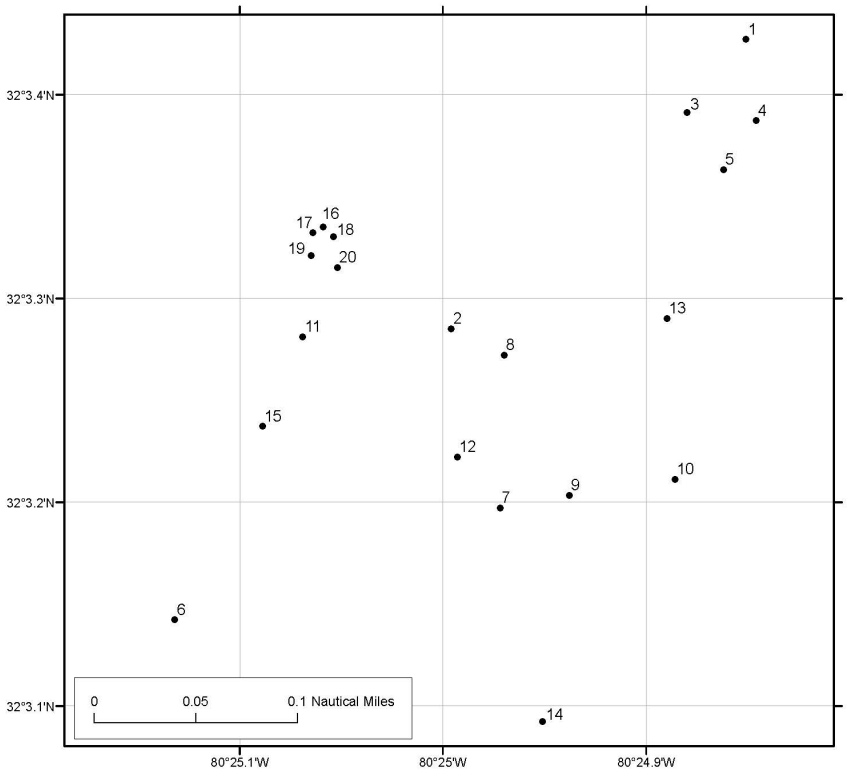




PA-44

1 buoy marks reef, bearing 105° / 8.4 nm from Port Royal sea buoy 'P' - water depth 90'

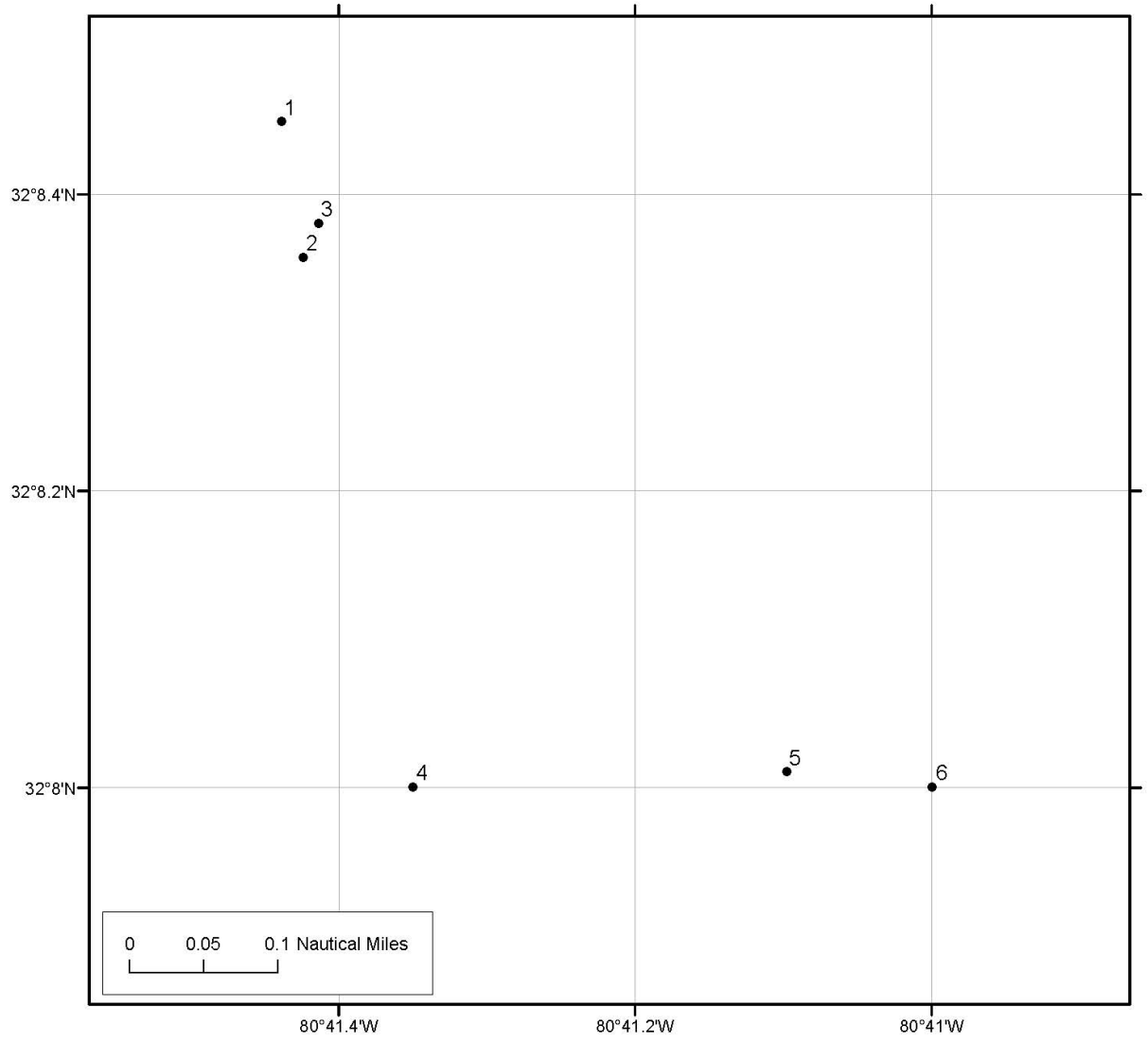
Reef	Structure	Latitude N	Longitude W
	1) Reef Buoy	32 03.427	080 24.851
Betsy Ross Reef	2) 430' Liberty ship (Betsy Ross)	32 03.285	080 24.996
	3) Bridge section	32 03.391	080 24.880
	4) Bridge section	32 03.387	080 24.846
	5) Bridge section	32 03.363	080 24.862
	6) 175' Ship (YO-224)	32 03.142	080 25.132
	7) NYC Subway cars	32 03.197	080 24.972
	8) NYC Subway cars	32 03.272	080 24.970
	9) NYC Subway cars	32 03.203	080 24.938
	10) NYC Subway cars	32 03.211	080 24.886
	11) NYC Subway cars	32 03.281	080 25.069
	12) NYC Subway cars	32 03.222	080 24.993
	13) 100 Concrete cones	32 03.290	080 24.890
	14) 105' Tugboat	32 03.092	080 24.951
	15) 100' Barge w/ deck house	32 03.237	080 25.089
	16) APCs	32 03.335	080 25.059
	17) APCs	32 03.332	080 25.064
	18) APCs	32 03.330	080 25.054
	19) APCs	32 03.321	080 25.065
	20) APCs	32 03.315	080 25.052



PA-45

1 buoy marks reef, bearing 249° / 5 nm from Port Royal channel buoy '15' - water depth 9'

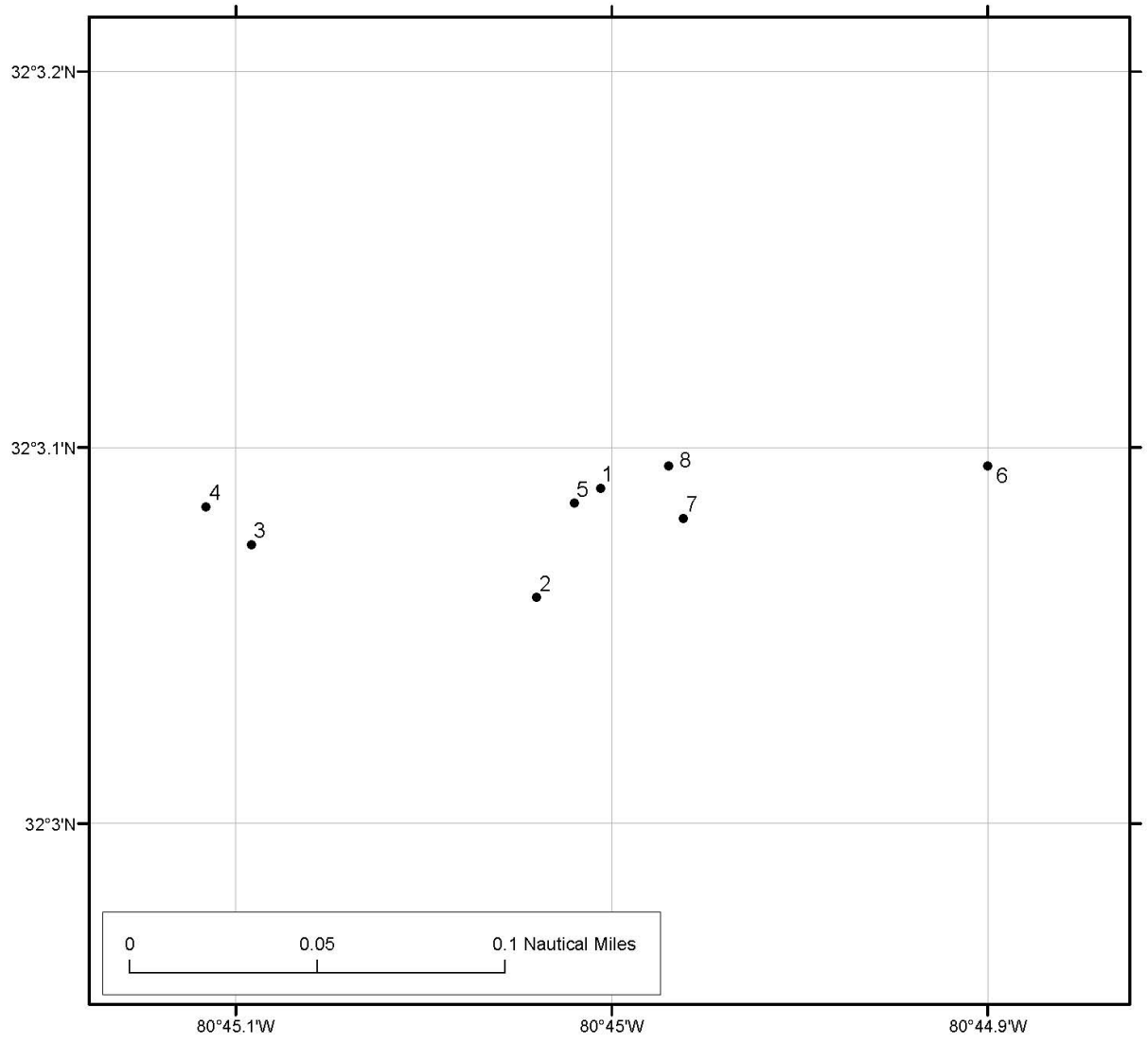
Reef	Structure	Latitude	Longitude
		N	W
	1) Reef Buoy	32 08.449	080 41.439
Fish America Reef	2) Concrete Reef Balls	32 08.357	080 41.424
	3) Concrete Reef Balls	32 08.380	080 41.414
	4) Concrete Zs	32 08.000	080 41.350
	5) Concrete culvert pipe	32 08.010	080 41.098
	6) Broad River Bridge rubble	32 08.000	080 41.000



PA-47

1 buoy marks reef, bearing 255° / 8.5 nm from Port Royal sea buoy 'P' - water depth 30'

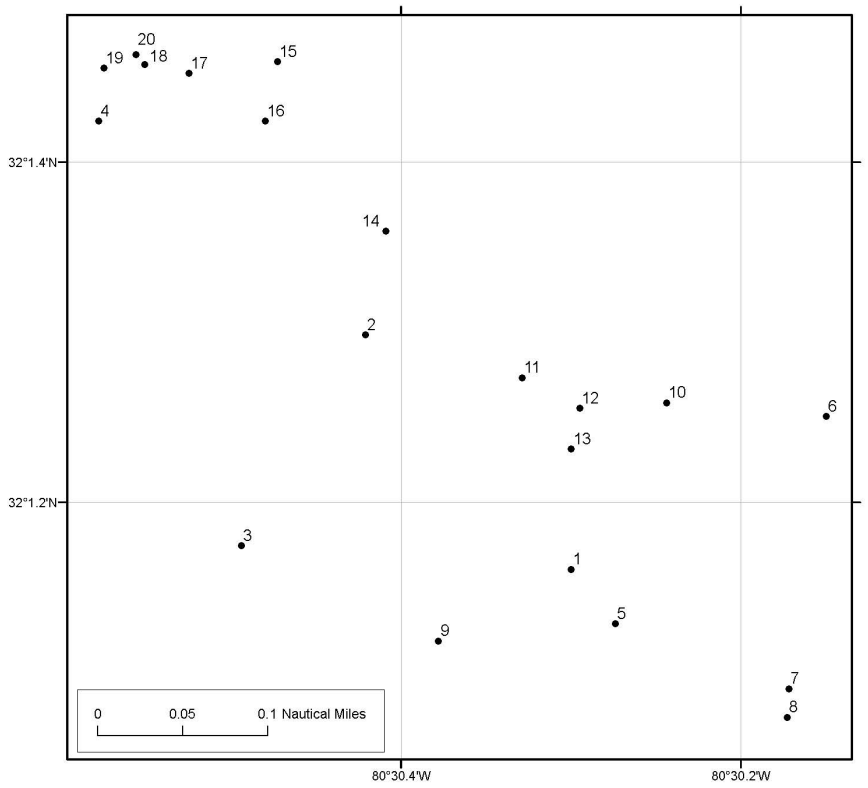
Reef	Structure	Latitude	Longitude
		N	W
	1) Reef Buoy	32 03.089	080 45.003
White Water Reef	2) 60' Lash barge	32 03.060	080 45.020
	3) Army tanks and APCs	32 03.074	080 45.096
	4) Army tanks and APCs	32 03.084	080 45.108
	5) Concrete Zs	32 03.085	080 45.010
	6) 20 Shipping containers	32 03.095	080 44.900
	7) 56' Landing craft	32 03.081	080 44.981
	8) Concrete culvert pipe	32 03.095	080 44.985



PA-48

1 buoy marks reef, bearing 133° / 5.5 nm from Port Royal sea buoy 'P' - water depth 70'

Reef	Structure	Latitude N	Longitude W
	1) Reef Buoy	32 01.160	080 30.300
Eagle's Nest Reef	2) 65' Tugboat	32 01.298	080 30.421
	3) 115' Landing craft	32 01.174	080 30.494
	4) 115' Landing craft	32 01.424	080 30.578
	5) 150 TIC units	32 01.128	080 30.274
	6) Tanks and/or APCs	32 01.250	080 30.150
	7) Tanks and/or APCs	32 01.090	080 30.172
	8) Tanks and/or APCs	32 01.073	080 30.173
	9) 80' Deck Barge	32 01.118	080 30.378
	10) 90' Deck barge	32 01.258	080 30.244
	11) Concrete cones	32 01.273	080 30.329
	12) Concrete cones	32 01.255	080 30.295
	13) Concrete cones	32 01.231	080 30.300
	14) APCs	32 01.359	080 30.409
	15) APCs	32 01.459	080 30.473
	16) APCs	32 01.424	080 30.480
	17) APCs	32 01.452	080 30.525
	18) APCs	32 01.457	080 30.551
	19) APCs	32 01.455	080 30.575
	20) APCs	32 01.463	080 30.556



PA-49

1 buoy marks reef, bearing 195° / 5 nm from Port Royal sea buoy 'P' - water depth 50'

Reef	Structure	Latitude N	Longitude W
	1) Reef Buoy	31 59.948	080 35.928
Hilton Head Reef	2) 35' Navy boat	32 00.152	080 36.006
	3) 200' Deck barge	31 59.923	080 35.892
	4) 50' Deck barge	31 59.734	080 35.619
	5) 100' Deck barge + tires	32 00.179	080 36.015
	6) Concrete reef balls	31 59.774	080 35.909
	7) Concrete reef balls	31 59.964	080 36.020
	8) Army tanks and APCs	32 00.008	080 35.831
	9) Army tanks and APCs	32 00.032	080 35.906
	10) Army tanks and APCs	31 59.989	080 35.939
	11) Concrete Zs	31 59.935	080 35.940
	12) 20 Shipping containers	31 59.955	080 35.915
	13) Army APCs	31 59.965	080 35.975
	14) Army APCs	31 59.948	080 35.999
	15) Army APCs	31 59.925	080 35.963
	16) Army APCs	31 59.906	080 35.944

