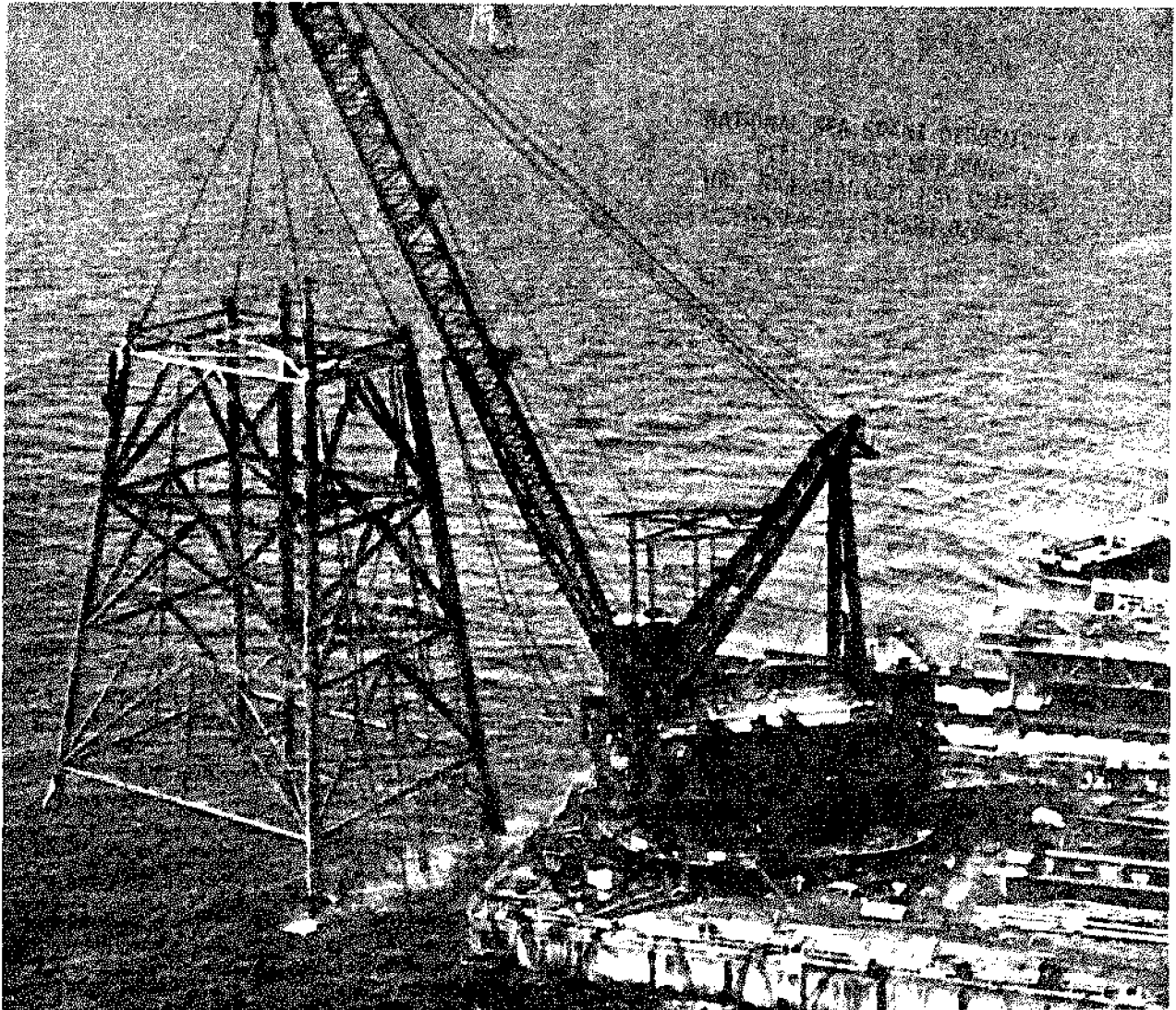

Atlas of **CIRCULATING COPY**
Artificial Reefs in Florida **Sea Grant Depository**

Donald Y. Aska
Donald W. Pybas



Florida Cooperative Extension Service
Sea Grant Marine Advisory Bulletin

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Project No. M/PM-2

Cover Photograph

The lower section of a surplus oil/gas platform donated by Tenneco Inc., to the State of Florida for use as an artificial reef, August, 1982. This structure, weighing 300 tons and standing 130 feet tall, has been placed on its side in 175 feet of water near Pensacola, Florida (see Reef No. 26, Area 6). Photograph furnished by Tenneco, Inc., Houston, Texas.

**Atlas of Artificial Reefs
in
Florida**

**Donald Y. Aska
Donald W. Pybas**

CONTENTS

Introduction	ii
Permitted Artificial Reefs in Florida	1
AREA 1: Nassau through Volusia Counties	2
AREA 2: Brevard through Broward Counties	4
AREA 3: Monroe through Collier Counties	6
AREA 4: Lee through Pinellas Counties	8
AREA 5: Pasco through Franklin Counties	10
AREA 6: Gulf through Escambia Counties	12
Other Sources of Information	14
Interesting Facts on Artificial Reefs in Florida	15

Donald Y. Aska, Consultant to the Florida Sea Grant College.

**Donald W. Pybas, Marine Extension Agent, Marine Advisory Program,
Miami, Florida.**

INTRODUCTION

This Atlas is designed to provide the public with a guide to locations and characteristics of permitted artificial reefs constructed for fishing and diving purposes in Florida's coastal waters.

A 1979 version (Map-9) listed reefs based on permit applications filed with federal and state regulatory agencies. This Atlas has been updated to include reefs whose existence has been confirmed by knowledgeable local sources. Unconfirmed data were used in a few areas where local information was not available or was incomplete, but where permit records or other information still indicated the existence of a reef. Inaccurate data may be included due to these reasons and the user is thus informed of this possibility.

This Atlas also differs from the 1979 version in that the best available Loran-C coordinates for each reef are listed. Users are cautioned, however, that these coordinates may or may not be corrected for plotting positions on nautical charts. **THIS ATLAS IS NOT INTENDED FOR NAVIGATION PURPOSES.** Correction factors should be determined by getting time differences for several fixed positions, such as channel markers or day beacons, and by averaging each secondary reading. The correction factors should be applied to the listed coordinates to determine chart Loran-C position. Of the several ways that Loran-C radio navigation can assist users, its repeatable accuracy, once adjusted for local correction factors, is more important than absolute accuracy.

Further information on Loran-C can be obtained from the U.S. Coast Guard by requesting the Loran-C Users Handbook (COMDTINST M 16562.3).

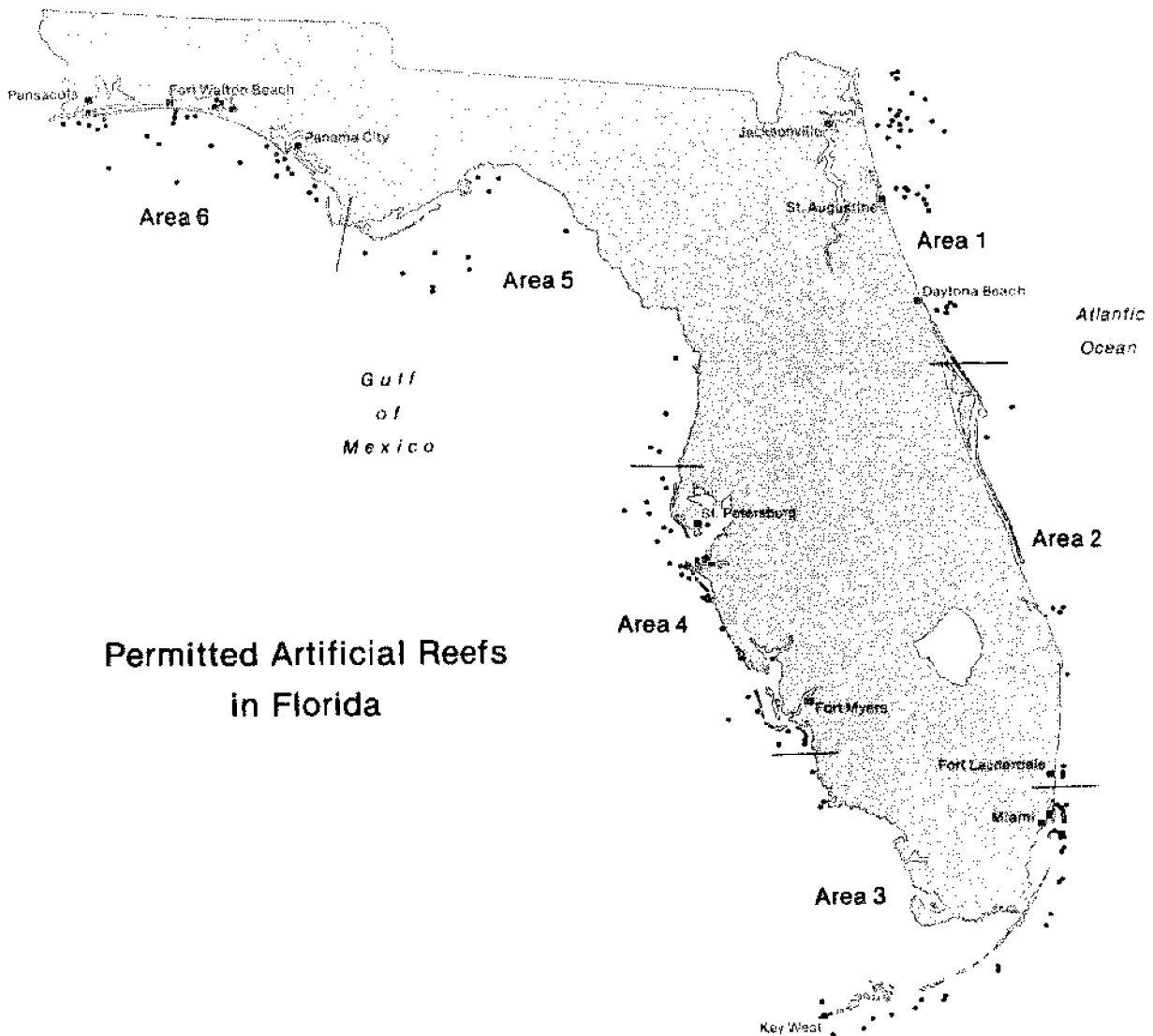
Users of this Atlas are also alerted to the fact that the coordinates listed may zero in

on a marker buoy on or adjacent to the reef or may center on one corner or end buoy of a reef. A depth finder should be used to accurately determine reef contours and optimum fishing sites.

Users may also find a slight deviation between listed longitude-latitude coordinates and Loran-C coordinates if exact chart overlays are made. The coordinates may also not align precisely with reefs noted on National Ocean Survey navigation charts. The coordinates are listed as reported by the best available local information sources. Differences can result from varying local recording procedures. Users are advised to consult local fishing clubs, guides, marinas, Chambers of Commerce and sportswriters to confirm specific fishing and diving sites when questions arise. A directory of persons and organizations concerned with artificial reefs in Florida (MAFS-35) is available from the Florida Sea Grant Marine Advisory Program (see back cover) or from local County Cooperative Extension Service offices.

The survey leading to this publication was conducted during late 1982 and does not include reefs permitted and constructed during 1983. The survey methodology consisted of mailings, telephone and personal contacts, archive searches and local Marine Advisory Program assistance. Gratitude is expressed to those persons and organizations who provided local information. Neither the authors nor the Florida Sea Grant College Program can accept responsibility for the complete accuracy of the data contained herein.

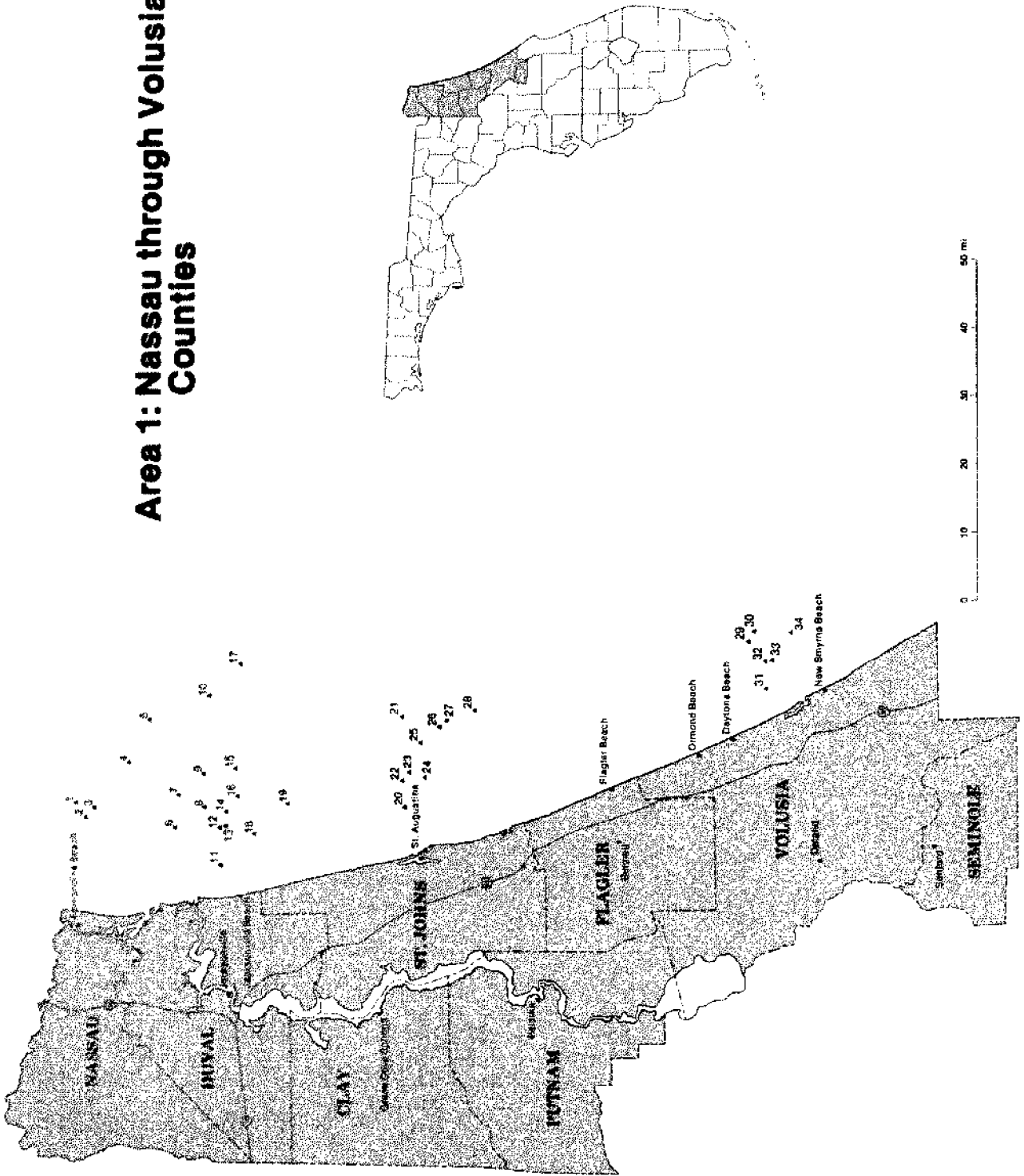
The maps and charts that appear in the Atlas were constructed by Paula Rose of the Florida Resources and Environmental Analysis Center located at Florida State University, Tallahassee, Florida.



**Permitted Artificial Reefs
in Florida**

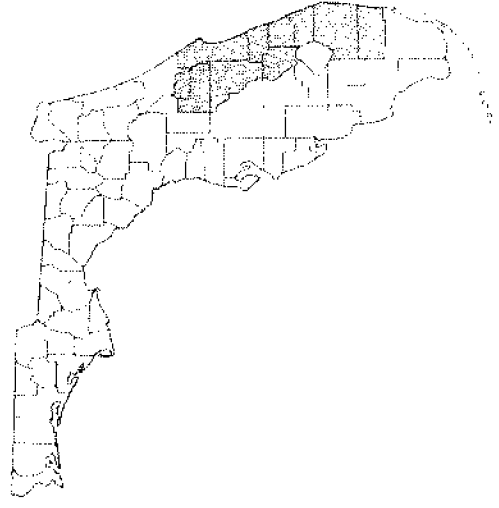
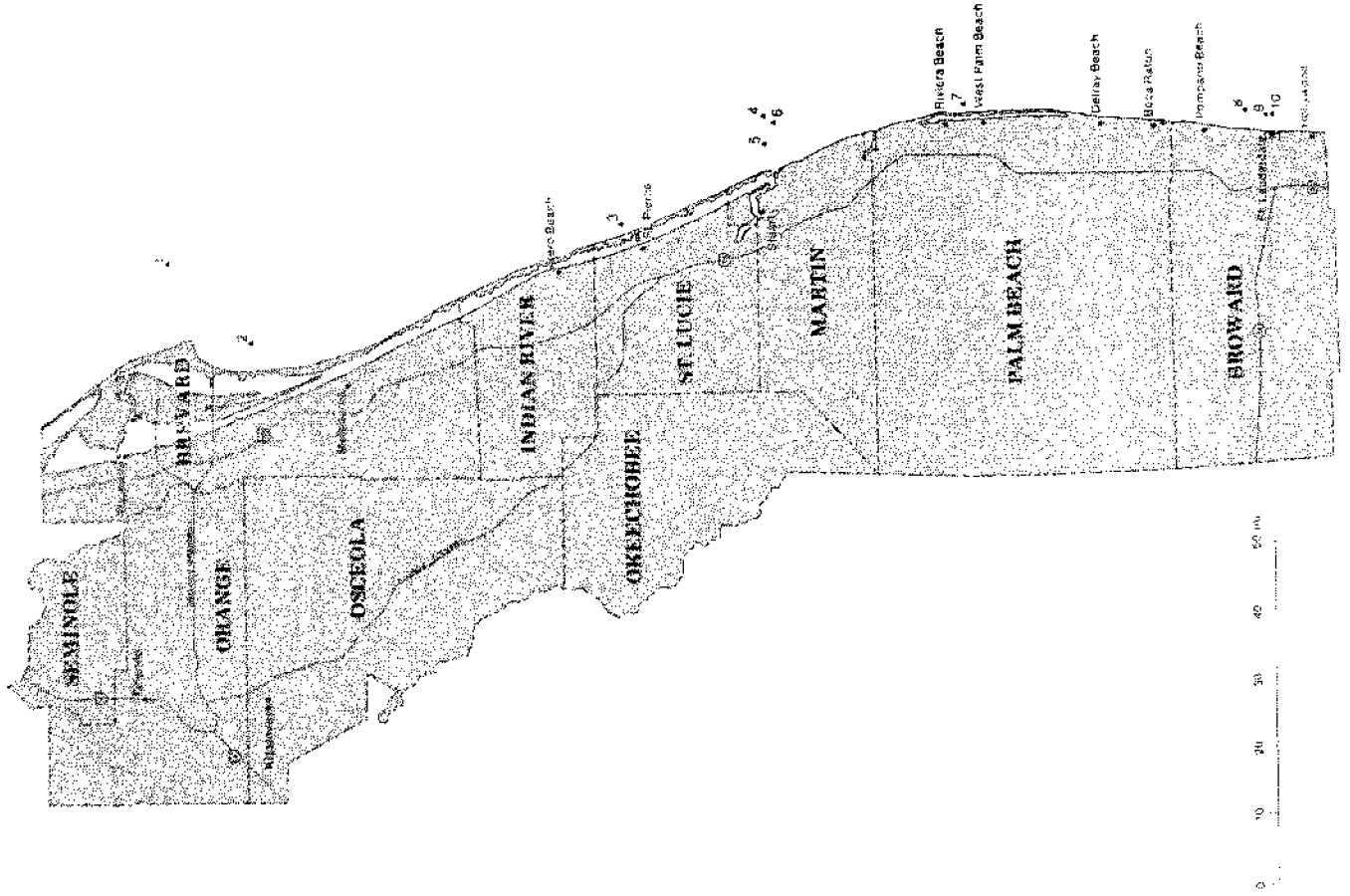
For the purposes of portraying artificial reef locations, the state of Florida has been divided into six coastal areas. They are presented in numerical order beginning with the northern Atlantic coast, proceeding south through the Keys and continuing north along the Gulf coast of the state. This map shows the general distribution of permitted reefs. For detailed information refer to the area maps and their accompanying data on reef characteristics and location.

Area 1: Nassau through Volusia Counties



Year Built	Name	Latitude	Longitude	Loran C Coordinates	Depth (ft.)	Distance (Naut. mi)	Composition
1973	Sahimans Gully	30°40'07"	81°09'07"	45308.1 61874.1	70	15.1	Steel barge
1973	Whittakers Snapper Hole	30°38'07"	81°12'07"	45314.4 61907.1	55	12.7	Steel barge
1975	Fernandina Snapper Banks	30°37'01"	81°10'09"	45292.6 61899.0	70	14.4	Wood vessel
4	Amberjack Hole	30°32'48"	81°03'12"	45210.5 61849.0	83	16.8	Barge, two tugs
1976	Tanzlers Waters	30°29'38"	80°57'31"	45151.8 61814.5	102	17	Tugs
1969	Montgomery Reef	30°26'49"	81°13'18"	45235.5 61958.0	76	5.5	Autos, metal junk, concrete rubble
7	Buseys Bonanza	30°25'57"	81°08'18"	45196.0 61918.5	72	12	Drydock, barge, tug, vessel
8	Jacksonville Nine Mile Reef	30°23'34"	81°10'16"	45192.2 61944.9	72	11	Barge, steel tanks, culverts
9	East 14 & 15	30°23'26"	81°04'58"	45156.2 61901.2	65	15	Stadium demolition material
10	Harms Ledge	30°22'19"	80°53'56"	45077.0 61813.7	100	24	Tug
11	Spoil area	30°20'47"	81°18'04"	45228.0 62019.1	55	5	Scrap metal, general junk
1982	Pablo Grounds	30°20'33"	81°12'46"	45180.0 61976.0	73	8	Culverts, rubble, steel tanks, tires
1971	Blackmarns Reef	30°21'48"	80°46'50"	45182.4 61975.3	65	10	Ferryboat, barges, tugs
14	Paul Mains Reef	30°19'42"	81°11'18"	45181.3 61976.4	68-75	11	Autos, culverts, tugs, barge, vessels
15	Claytons Hoiler	30°18'44"	81°04'09"	45117.0 61912.5	92	14	Steel tugs
16	Middle Grounds	30°18'26"	81°08'15"	45141.7 61947.7	85	11.5	Concrete culvert
17	Casa Blanca	30°17'29"	80°49'18"	45012.7 61795.2	105	28	LST, cables
1941	Jacksonville Beach Wreck	30°19'31"	81°13'56"	45166.0 62001.0	60	10.5	Steel tanker, dredge pipe
1977	Ponta Vedra Ground	30°12'46"	81°09'40"	45106.0 61982.0	75	15	Tires, steel scaffolding
20	Four Mile Reef	29°56'43"	81°10'45"	44998.0 62045.6	60	2.1	Tires (on natural reef)
1973	Dorothy Louise	29°56'17"	80°57'20"	44903.0 61938.0	70	19.5	Concrete, old vessel
1976	Pop Warner Reef	29°56'06"	81°05'53"	44960.0 62008.7	65	7.6	Tires
1974	Nine Mile North Reef	29°55'24"	81°05'39"	44953.5 62008.3	65-70	6.9	Tires (on natural reef)
1974	Nine Mile South Reef	29°53'33"	81°06'36"	44946.0 62022.7	60	7.6	Tires (on natural reef)
1973	Dasco Boat	29°53'26"	81°00'51"	44903.3 61976.0	70	15.3	Concrete, old vessel
1974	Inner Plane	29°51'20"	80°58'23"	44873.0 61964.9	70	16.1	Small plane
1974	Outer Plane	29°50'18"	80°57'19"	44858.0 61960.0	80	18.3	Pieces of plane
	Shipwreck	29°45'54"	80°56'00"	44818.0 61962.5	90	20.1	Old vessel
1982	The Wreck	29°12'30"	80°46'00"	44461.7 61989.3	75	10	WWII ship, concrete beams, culverts
1961	Liberty Reef	29°11'58"	80°44'45"	44457.8 61982.0	85	10.8	Liberty ship, Midd/rua
1971	County Reef	29°09'04"	80°53'20"	44486.4	60	4.4	Tires, autos, rubble
1972	Nine Mile	29°09'00"	80°49'00"	44473.4 62005.3	70	6.5	Barge, autos, concrete rubble
1970	Wharton Tire Reef	29°08'54"	80°49'26"	44460.0	70	7.4	Concrete beams, culverts, rubble
1982	Cracker Ridge	29°08'47"	80°41'27"	44410.9 61968.7	70	11	Concrete beams, rubble

Area 2: Brevard through Broward Counties



Year Built	Name	Latitude	Longitude	Loran C Coordinates	Depth (ft.)	Distance (Naut. mi)	Composition		
1	unnamed	28°30'00"	80°21'18"	14486.0	80	10	Concrete rubble, tires		
2	unnamed	28°19'35"	80°33'25"	14460.9	25	2	Concrete blocks		
3	unnamed	27°30'21"	80°16'55"	14392.7	31229.6	43344.9	36	1	Autos, concrete rubble
4	Bill Donaldson Reef	27°12'17"	80°02'18"	14374.0	43090.0	61990.1	85	8	Landing craft, tires
5	Capt. Al Sirotkin Reef	27°12'10"	80°06'20"	14370.3	43107.3	62013.8	58	3.25	Barges, concrete barrels, tubs, bowls, toilets
6	Dr. Edgar Einstl Reef	27°09'30"	80°03'30"	14392.7	43065.2	62002.0	60	4.7	Barges, tires, bus bodies
7	Palm Beach Artificial Reef	26°45'37"	80°01'00"	14331.4	43012.6		65-95	1	Vessels <i>Amaryllis</i> and <i>Mizpah</i> , tires, metal, PC Boat
8	unnamed	26°10'10"	80°03'21"	14288.8	62088.9		65-400	1	Barges, tires, steel tanks, fish aggregating devices
9	unnamed	26°06'48"	80°04'10"	14262.1	62107.5		240	2.5	Drydock, ship hull molds, barges, concrete rubble
10	unnamed	26°06'40"	80°04'33"	14261.5	62109.7		145	1.5	Midwater fish attractors

Brevard

St. Lucie

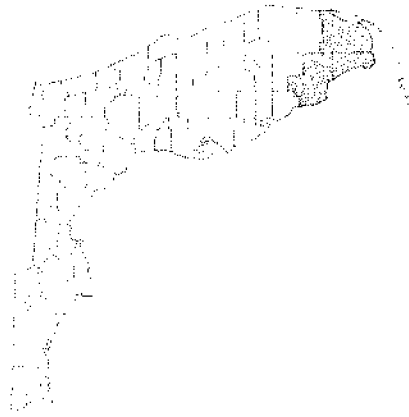
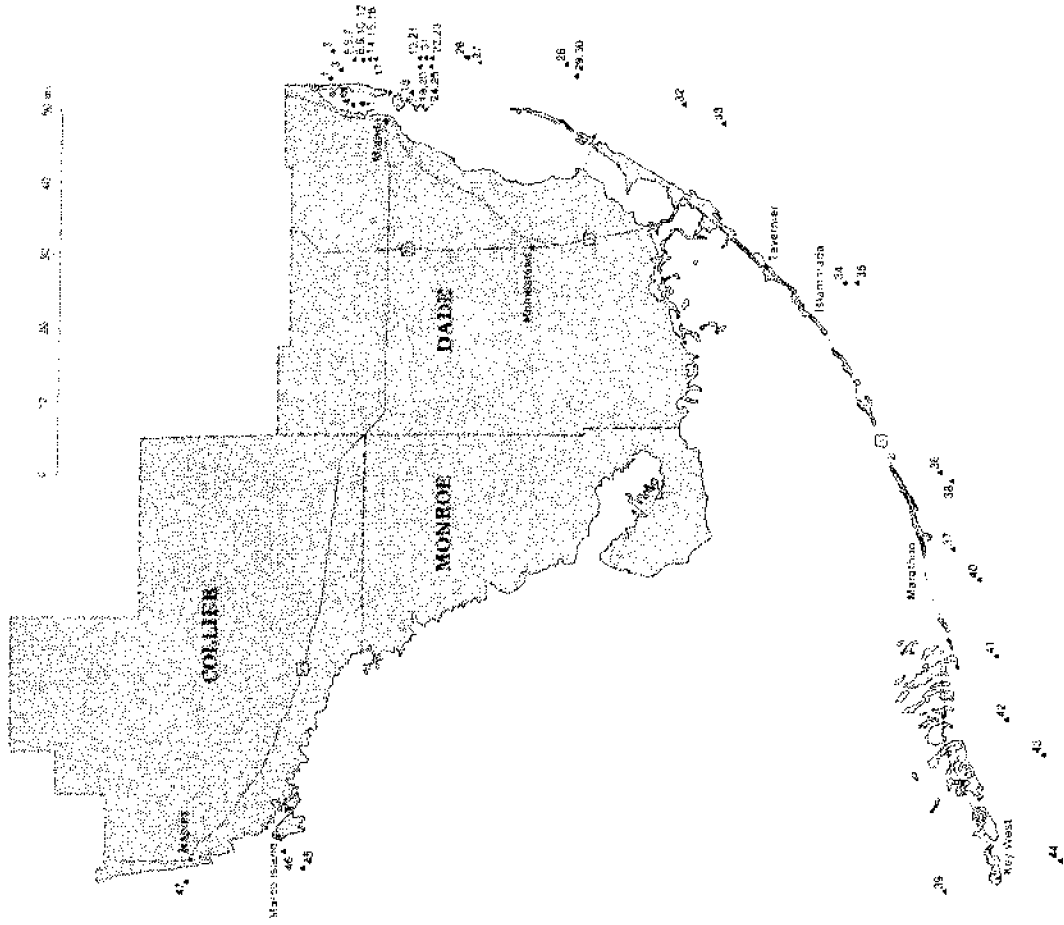
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Palm Beach

Broward

Area 3: Dade, Monroe, and Collier Counties

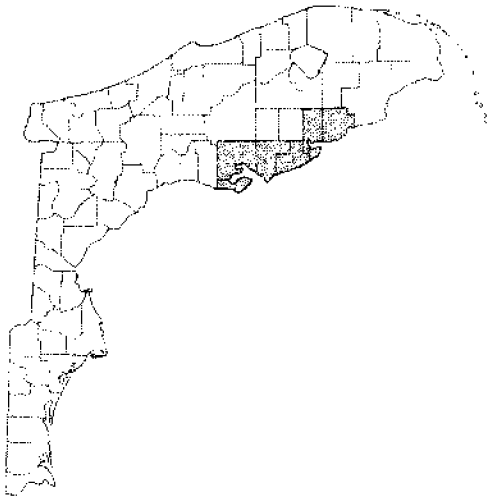
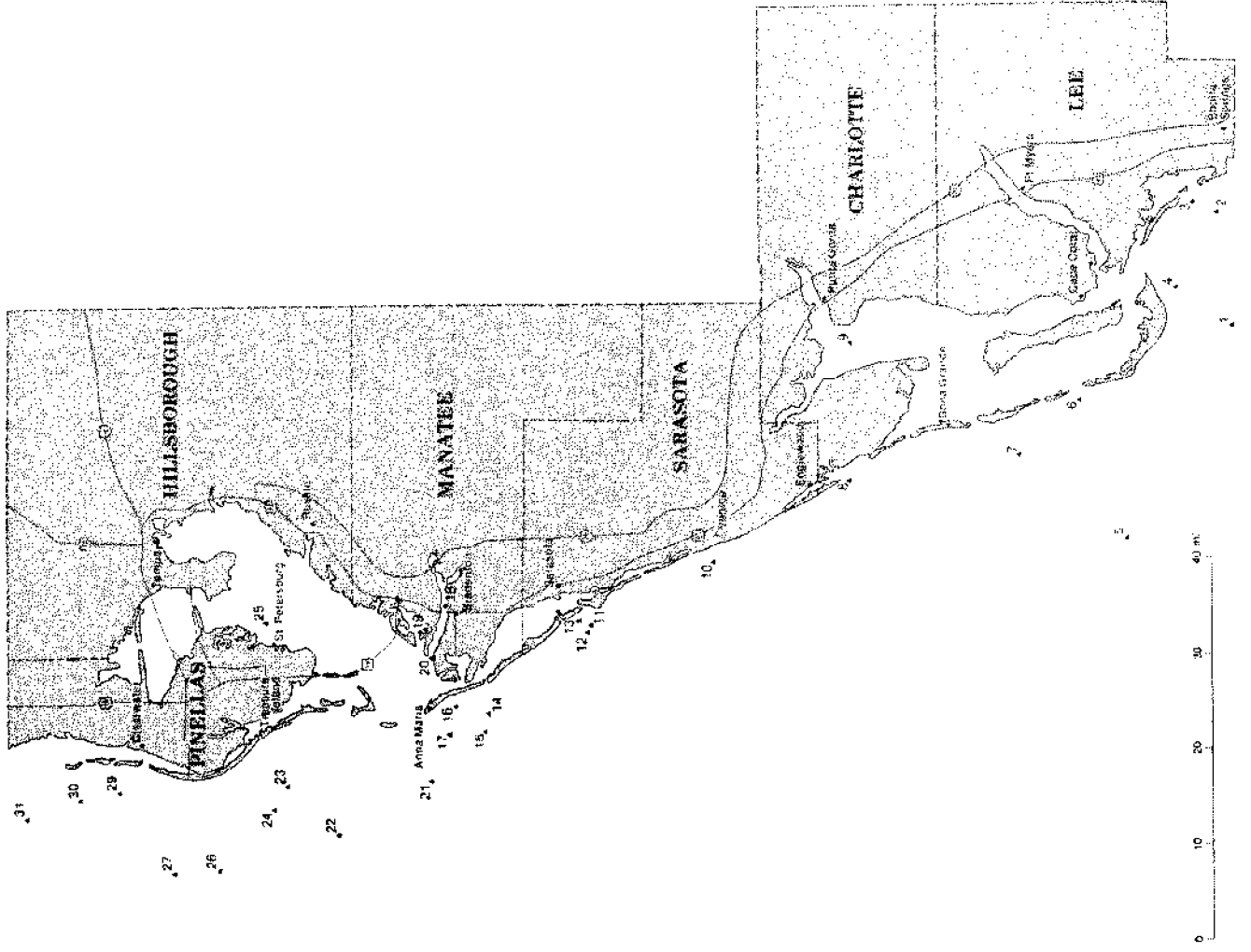


Year Built	Name	Latitude	Longitude	Loran C Coordinates	Depth (ft.)	Distance (Naut. mi)	Composition
1	Broad Causeway	25°53'15"	80°09'04"	In Biscayne Bay	5-7		Rubble, pipe
2	Liberty Ship	25°52'59"	80°03'39"	14239.4	372	2.5	Liberty Ship 520 ft.
3	Crane Boom	25°52'00"	80°05'00"	14236.1	70-85	2.75	Crane boom 100 ft.

4	1979	Pelican Harbor	25°50'45"	80°10'00"	In Biscayne Bay	43109.8	62128.5	5-7	2.25	Concrete pipe
5	1973	Fireboat	25°50'31"	80°04'02"	14234.8	43109.8	62128.5	222	2	Steel tug 110 ft.
6	1971	Mine Sweeper	25°50'01"	80°04'14"	14233.7	43110.7	62130.1	160	2	Minesweeper 177 ft.
7	1971	Lotus	25°49'54"	80°04'00"	14233.8	43110.1	62129.2	216	2.25	C.G. tender 110 ft.
8	1980	Walka Q	25°49'22"	80°03'50"	14233.1	43110.3	62129.1	282	2.5	Steel freighter 200 ft.
9	1971	Pimellons	25°49'06"	80°04'11"	14232.3	43112.4	62130.3	135	1.75	Steel ferry 120 ft.
10	1973	West End	25°49'05"	80°04'01"	14232.4	43111.3	62130.3	228	2.25	LCI 130 ft.
11	1982	Julia Tuttle	25°48'48"	80°10'12"	In Biscayne Bay	43112.0	62130.9	28	2	Autos, boats, rubble
12	1969	LCI	25°48'42"	80°04'03"	14231.7	43112.0	62130.9	202	2	Landing craft 150 ft.
13	1978	Pipes	25°48'33"	80°04'02"	14231.5	43112.1	62131.1	204	2	Scrap steel, rubble
14	1976	Deep Freeze	25°48'21"	80°04'23"	14230.7	43113.6	62133.0	120	1.75	Transport vessel 138 ft.
15	1978	Dry Dock	25°48'19"	80°03'43"	14231.5	43111.4	62129.9	330	2.5	Pontoon dock
16	1970	Hopper Barge	25°47'18"	80°03'54"	14229.5	43113.5	62132.1	234	2.25	Metal barge 175 ft.
17		Bear Cut	25°43'30"	80°08'05"	14217.3	43115.2	62156.2	6-10	1.25	Barge 100 ft.
18	1981	Shrimp Drift-boats	25°42'09"	80°05'10"	14218.6	43114.4	62144.4	55-100	4	Vessels
19	1976	Biscayne Wreck	25°42'08"	80°05'17"	14218.5	43115.0	62145.0	55	3.5	Freighter 120 ft.
20	1977	Dade County Reef	25°42'00"	80°04'06"	14220.3	30805.7	62142.8	220	5	Concrete rubble
21	1982	Arida	25°41'43"	80°04'24"	14219.7	43123.5	62143.7	90	4	Steel LCT 165 ft.
22	1982	Lakeland	25°41'28"	80°04'23"	14218.6	30802.6	62143.7	126-140	4.25	Steel ship 200 ft., midwater reefs
23	1982	Star Trek	25°41'28"	80°04'01"	14219.0	30803.2	62142.2	205-210	4.75	Steel ship 203 ft., midwater reefs
24	1981	Orion	25°41'26"	80°05'03"	14217.4	43115.0	62145.0	95-100	4	Steel tug 145 ft.
25	1982	Cement Mixer	25°41'05"	80°04'47"	14218.4	43114.6	62144.6	75-88	4	Twenty cement mixer bowls
26	1981	Hopper Barge	25°36'43"	80°04'37"	14210.3	30782.9	62149.9	160-166	5.25	Crane boom 100 ft.
27	1980	Railroad Barge	25°34'48"	80°04'49"	14206.9	30774.8	62152.8	170	6.5	Steel barge 120 ft.
28	1976	Santa Rita	25°25'00"	80°05'34"	14188.9	30732.1	62170.7	240-247	5	Steel ship 250 ft.
29	1975	Almirante	25°24'27"	80°06'43"	14187.5	30729.5	62173.8	122-132	4.75	Refrig. vessel 180 ft.
30	1973	Belcher Barge	25°23'45"	80°08'48"	14187.0	30728.1	62174.4	117-122	4.75	Fuel barge 150 ft.
31	1980	San Rafael	No coordinates available	check locally				330	2.5	Steel freighter 200 ft.
32	1978	Alva Chapman Reef	25°12'36"	80°11'36"	14160.4	43185.8	62209.5	220	8	Two concrete hulls, dredge pipe
33		Elbow Wreck	25°07'21"	80°13'55"	14149.4	30644.8	62224.3	180	7.5	Large vessel
34	1981	Crocodile Reef	24°51'42"	80°34'06"	14093.2	43292.6	62152.8	110	5	Concrete rubble
35		Nimrod	24°51'05"	80°33'45"	14092.6	43292.0	62152.8	210	5.5	Vessel
36		Marathon Reef	24°41'25"	80°57'05"	14038.6	43397.4	62170.7	25	3.4	Tires
37		Marathon Reef	24°39'36"	81°04'41"	14022.4	43432.8	62173.8	25	2	Tires, autos, metal junk
38	1982	VACA Cut Reef	24°39'30"	80°58'30"	14033.7	30417.9	62149.9	90-115	5	Concrete, bridge rubble
39	1971	City of Key West	24°39'30"	81°51'06"	13933.8	43665.8	62152.8	20	5.3	Autos
40	1981	Seven Mile Reef	24°36'20"	81°10'00"	14006.8	43460.6	62152.8	90-100	2	Concrete, bridge rubble
41	1982	American Reef	24°34'00"	81°20'00"	13984.7	43507.2	62152.8	40-45	1.7	Concrete, bridge rubble
42	1982	Big Pine Shoal Reef	24°33'00"	81°28'00"	13966.2	43548.6	62152.8	80-100	4	Concrete, bridge rubble
43	1981	American Shoal	24°28'48"	81°33'00"	13951.8	43570.2	62152.8	200-300	9	Cruiser, destroyer
44	1981	Key West Tournament Reef	24°27'47"	81°45'15"	13923.5	43639.5	62152.8	210	7	Vessels, rubble
45	1972	Five Mile Fish Haven	25°52'42"	81°47'48"	14075.8	43713.4	62152.8	30-35	4.4	Concrete rubble, steel pipe, barges, trucks
46	1972	Two Mile Fish Haven	25°56'24"	81°46'15"	14083.8	43708.3	62152.8	20-23	1.5	Tires, concrete rubble
47	1974	Naples Reef	26°07'45"	81°50'45"	14100.1	43765.1	62152.8	24	2	Tires, steel piling, concrete rubble

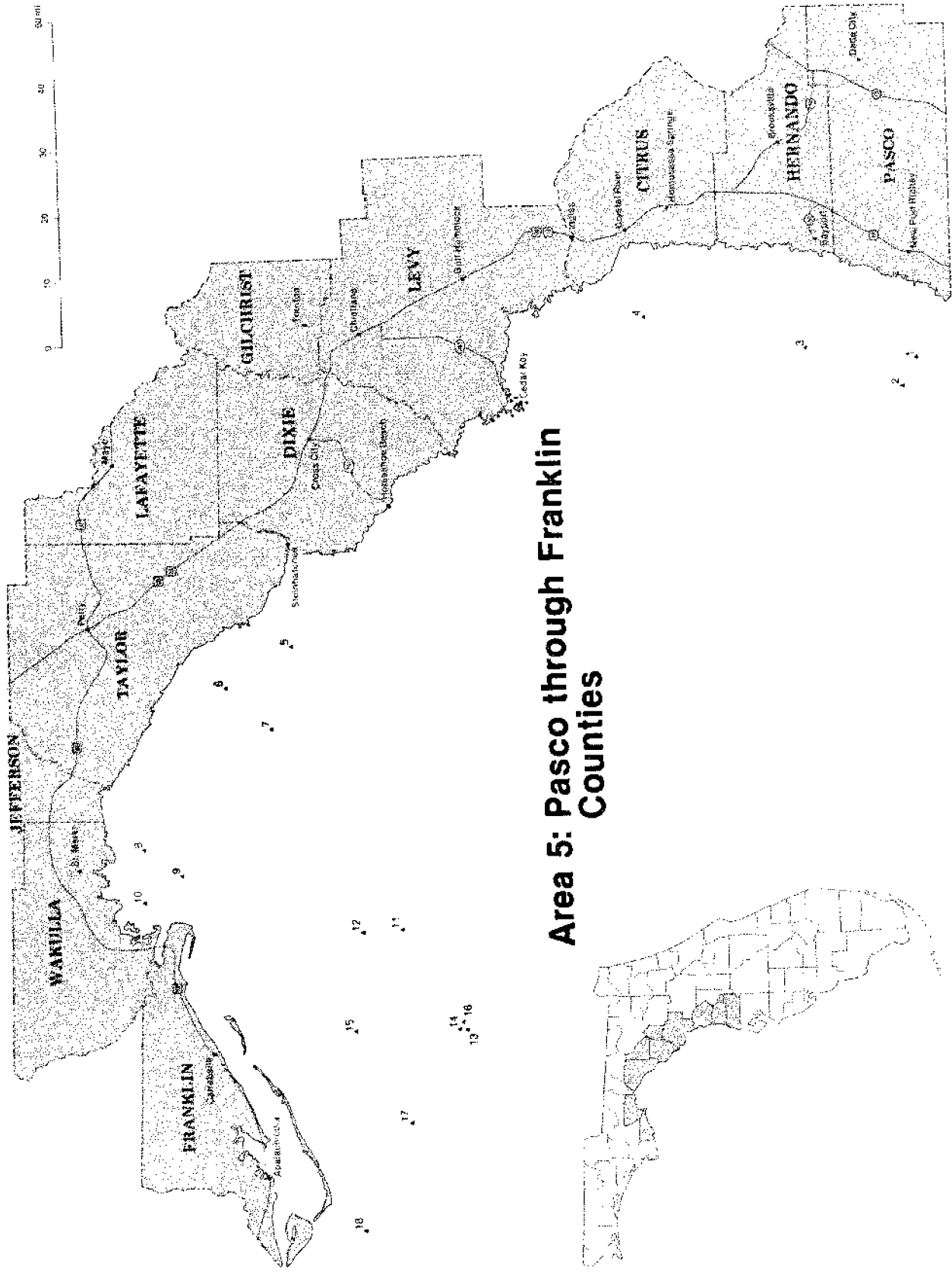
Monitor

Other



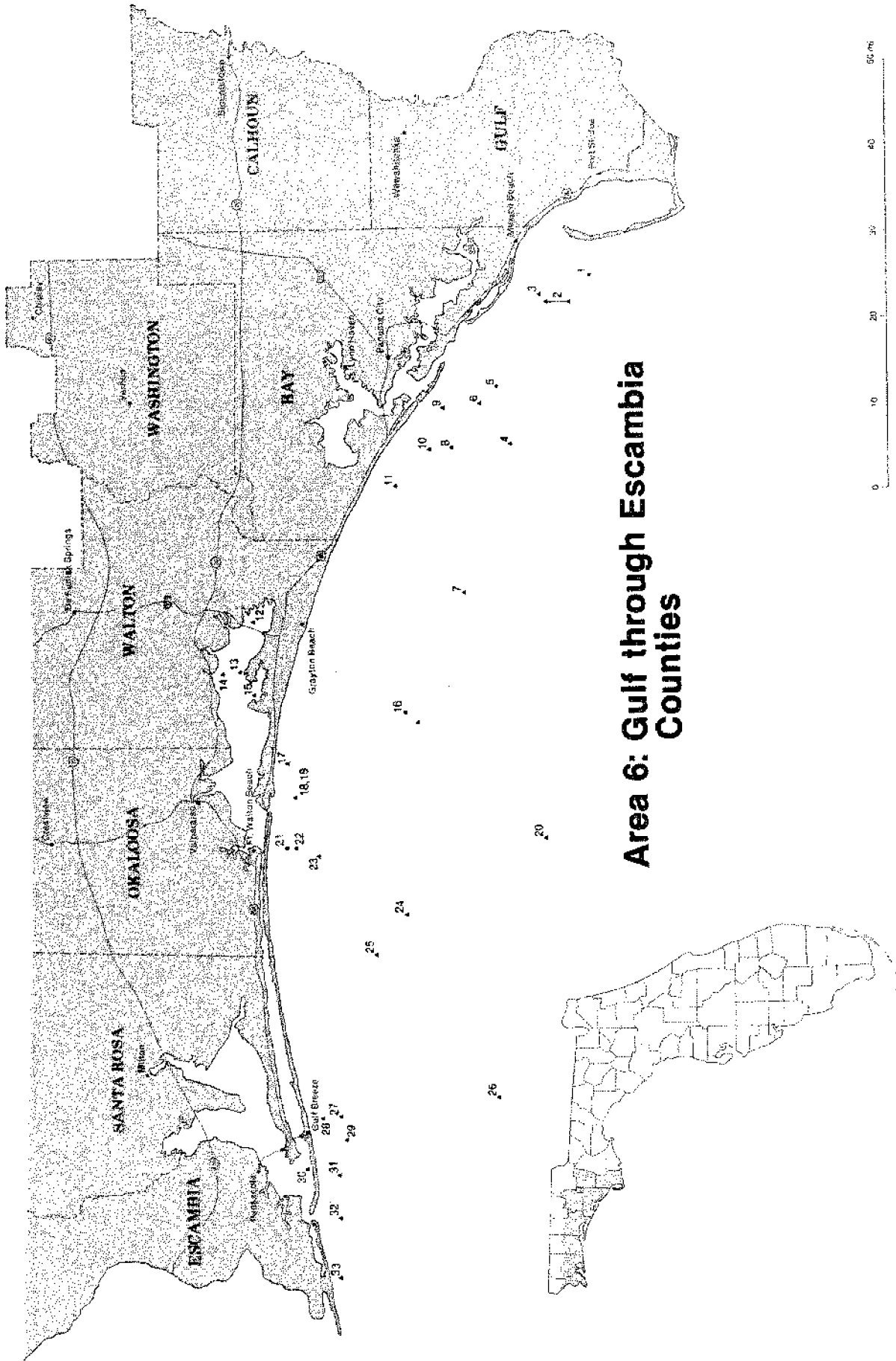
**Area 4: Lee through Pinellas
Counties**

Year Built	Name	Latitude	Longitude	Loran C Coordinates	Depth (ft.)	Distance (Naut. ml)	Composition
1	1973 No. 1 (Sanibel)	26°19'37"	82°05'05"	14100.0	31-34	10	Tires
2	1981 unnamed	26°21'35"	81°56'37"	14116.0	25-30	4.5	Concrete rubble, autos, barge
3	1973 SW of Big Carlos Pass	26°22'32"	81°55'05"	14123.0	20	2.02	Concrete rubble, bridge parts, old vessel
4	1978 SW of Sanibel Light	26°24'21"	82°02'38"	14112.0	20	1.2	Tires, concrete rubble
5	West of Captiva	26°29'44"	82°27'20"	14072.9	60	15.8	Autos, metal objects
6	1978 No. 2 (Redfish Pass)	26°33'31"	82°13'45"	14110.0	23	1.5	Tires, concrete rubble
Lee County							
7	1981 Boca Grande Fishing Reef	26°38'09"	82°18'09"	14112.1	32	2.8	Concrete rubble, pilings
8	1960 Fish Haven	26°54'05"	82°21'48"	14141.4	22	0.6	Bridge rubble
9	1970 Fish Haven	26°54'08"	82°07'05"	14189.4	6-8	1	Tires
Charlotte							
10	1980 Reef "D" (Venice)	27°06'06"	82°29'00"	14154.5	20-30	1.2	Concrete, tires, rock
11	1980 Reef "A" (Lido Key)	27°17'03"	82°35'54"	14166.1	20-30	2.2	Tires, concrete piling, rock
12	1981 Reef "B" (Lido Key)	27°17'55"	82°36'36"	14166.1	25-30	1.3	Concrete slabs, piling, rubble
13	1982 Reef "C" (Lido Key)	27°18'06"	82°35'39"	14169.5	20-25	1.3	Concrete piling, rubble
Sarasota							
14	1976 Reef "D" (3 miles)	27°26'33"	82°49'12"		30	3	Tires, concrete rubble, tiles
15	1976 Reef "C" (7 miles)	27°26'33"	82°44'48"		40	7	Tires, concrete rubble, tiles
16	1976 One Mile Reef	27°29'30"	82°44'05"	14180.0	21	1	Barge, tires, metal pipe
17	1976 Reef "B" (3 miles)	27°29'57"	82°47'00"	14175.0	30	3.5	Tires, concrete rubble, tiles
18	1975 Pt. Pleasant	Manatee River - Southwest of Point Pleasant			12	.4	Tires, concrete rubble
19	1965 Sarasota Bay Reef	27°31'51"	82°35'49"	14182.9	92	1	Tires, concrete rubble, tiles
20	1975 Sneads Point	Manatee River - South of Sneads Point			15	.1	Tires, concrete rubble
21	1976 Reef "A" (7 mile)	27°32'15"	82°52'42"	14168.5	40	7.8	Tires, concrete rubble, tiles
Manatee County							
22	1975 St. Pete Beach Reef	27°40'36"	82°51'45"	14192.9	28	5.0	Cement rubble
23	1975 Treasure Island	27°44'30"	82°52'51"	14200.8	32	4.8	Cement culverts
24	1975 Madeira Reef	27°46'18"	82°54'54"	14201.0	32	6.3	Cement culverts
25	1975 St. Pete Reef	27°47'11"	82°35'37"	14242.6	38	1.7	Cement rubble, steel barges
26	1975 Indian Shores Reef	27°51'24"	83°01'48"	14200.1	49	11.9	Cement rubble, 2 LSMs
Pinellas County							
27	1975 Pinellas Two Reef	27°52'30"	83°11'24"	14181.6	85	20	Tires, steel barge, SS Blackthorn (14181.7 X 44942.7)
28	1975 Rube Allyn Reef	27°55'36"	83°01'24"	14212.3	40	9.8	Cement culverts, LSM, tires
29	1974 Clearwater Reef	28°00'57"	82°53'42"	14233.3	25	3.3	Cement culverts, steel barge
30	1975 Dunedin Reef	28°03'12"	82°54'33"	14247.9	25	4.4	Cement culverts
31	1975 Tarpon Springs	28°08'15"	82°55'51"	14259.3	27	3.7	Cement culverts



Area 5: Pasco through Franklin Counties

Year Built	Name	Latitude	Longitude	Loran C Coordinates	Depth (ft.)	Distance (Naut. mi)	Composition
1	Pasco Reef No. 1	28°15'19"	82°57'27"	14275.4	25	9	Steel barge
2	Pasco Reef No. 2	28°17'42"	83°01'14"	14274.9	30	11	Steel barge
Pasco							
3	A.H. Richardson	28°30'00"	82°55'00"	14325.3	18	13	Tires, concrete rubble
Hernando							
4	unnamed	28°51'45"	82°49'41"	14390.3	22	6.5	Autos, concrete rubble
Citrus							
5	Steinhatchee Reef	29°39'48"	83°37'49"	14459.9	20	12	Fiberglass molds, concrete, tires
6	Keaton Schooner Reef	29°48'12"	83°45'15"	14474.8	20	8	
7	Taylor County Reef	29°43'41"	83°51'34"	14449.8	35	20	Barges, gas storage tanks
Taylor							
8	St. Marks Town Reef	30°00'00"	84°09'15"	14476.2	20	5	Tires
9	Rotary Reef	29°55'42"	84°13'06"	14449.8	21-30	12.5	Concrete, barges, tires
10	Shell Pt. Shallow Reef	30°00'06"	84°17'06"	14463.1	15	4	Tires
Wakulla							
11	V Tower	29°24'54"	84°21'54"	14306.8	31352.3	48210.8	Barge, concrete
12	K Tower	29°30'48"	84°22'06"	14330.2	31391.5	48262.5	60 13
13	S Tower	29°17'06"	84°36'48"	14223.7	31246.2	48239.5	105 35
14	S Tower Reef	29°17'55"	84°36'48"	14227.2	31252.9	48245.7	105 35
15	O Tower	29°32'12"	84°37'08"	14287.3	31351.4	48375.7	70 13
16	O Tower Reef (Carrabelle)	29°31'05"	84°39'25"	31335.0	48380.0	70	13
17	C Tower	29°24'24"	84°51'48"	14195.0	31236.3	46392.8	85 6.5
18	unnamed	29°31'12"	85°07'36"	14151.6	31210.8	46537.7	45 6.5
Franklin							



Area 6: Gulf through Escambia Counties

Year Built	Name	Latitude	Longitude	Loran C Coordinates	Depth (ft.)	Distance (Naut. mi)	Composition
1	1964 unnamed	29°50'24"	85°28'18"	14111.6	40	4.4	Concrete rubble, prefab concrete
2	1971 Cluster of Ten Reefs	29°53'15"	85°32'00"	14105.3	44-70	6.5-8.5	Autos
		29°55'05"		14088.0			
3	1979 Mexico Beach Site	29°54'06"	85°31'55"	14116.6	54	17	Metal junk, tires
4	1979 Stage 1 Site	29°58'07"	85°48'49"	14011.3	100	10	Concrete rubble
5	1974 Liberty Ship	29°59'03"	85°42'20"	14065.1	74	6.2	Liberty ship
6	1979 Midway Site	30°02'23"	85°43'18"	14072.6	71	5.5	Steel objects, tires, concrete rubble
7	1978 Grey Ghost	30°02'48"	86°05'32"	13891.1	105	21	Steel tug
8	1978 Warsaw Site	30°04'16"	85°48'53"	14036.8	77	5	Concrete rubble
9	1978 Loss Pontoon	30°05'01"	85°44'02"	14078.5	65	3	Tires, steel objects, concrete rubble
10	1980 PCMt Site	30°07'05"	85°49'29"	14043.8	75	5	Barge, steel objects
11	1979 Fountainbleau Site	30°09'32"	85°53'33"	14019.8	72	4	Concrete rubble
12	1972 unnamed	30°24'38"	86°08'48"	13933.2	9	0.9	
13	1972 unnamed	30°25'56"	86°14'18"	13883.2	13	0.4	
14	1972 unnamed	30°27'56"	86°14'34"	13885.9	13	1.2	
15	1972 unnamed	30°24'36"	86°17'35"	13847.3	7	0.7	Tires, concrete rubble
16	1977 unnamed	30°09'08"	86°19'07"	13786.4	102	12.4	Barge
17	1977 Christmas Tree Reef	30°22'00"	86°25'00"	13768.0	43-71	1	Tires, concrete, Christmas trees
18	1976 Pole Spot	30°21'00"	86°29'05"	13720.4	85	1.9	Bridge rubble
19	1977 Elgin Barge	30°21'04"	86°29'06"	13720.4	85	1.5	Barge
20	1976 unnamed	29°55'01"	86°34'09"	13602.3	65	27.8	Target ship
21	1976 Pier Rubble	30°22'03"	86°35'04"	13664.9	65	1.3	Pier rubble
22	1977 Brown Barge	30°21'04"	86°35'07"	13660.7	68	2.1	Barge
23	1977 Thomas Hayward	30°18'09"	86°36'02"	13648.2	85	5.2	Liberty ship
24	1979 Diamond Barge	30°09'04"	86°43'06"	13544.2	118	14.2	Barge
25	1980 Joseph E. Brown Reef	30°12'46"	86°48'20"	13515.2	70-80	9.4	Liberty ship
26	1982 Tenneco Reef	30°00'00"	87°04'00"	13323.0	175	22	Dismantled oil/gas platform
27	1978 P5M Reef	30°17'02"	87°07'06"	13326.3	85	3.1	Airplane wreck, tires
28	1973 Casino Fishing Reef	30°18'08"	87°07'30"	13326.3	60	0.4	Concrete rubble
29	1976 Liberty Ship Fishing Reef	30°16'03"	87°09'07"	13305.2	67	3.0	Liberty ship
30	1974 unnamed	30°19'56"	87°13'12"	13263.3	20	0.3	Polypropylene strips
31	1974 Santa Rosa Barge Reef	30°17'25"	87°13'13"	13271.0	45	1.0	Three barges, concrete rubble
32	1920 Battleship Reef	30°17'42"	87°18'42"	13215.0	30420.1	3.4	Battleship, concrete rubble
33	1974 unnamed	30°16'54"	87°25'36"	13145.0	20	0.9	Polypropylene strips

OTHER SOURCES OF INFORMATION

Except as noted, the following publications are available, free of charge, from the marine advisory agent at local County Extension Offices, or from the Marine Advisory Program, G022 McCarty Hall, University of Florida, Gainesville, FL 32611.

1. For more information on reefs—"Artificial Reefs," a slide show produced by Florida Sea Grant College. Arrangements for viewing may be made with the marine advisory agent at local County Extension Offices, or the show may be borrowed from Motion Picture Services, Bldg. 116, IFAS, University of Florida, Gainesville, FL 32611.
2. For siting and evaluation—"Artificial Reef Site Selection and Evaluation," a Marine Advisory Fact Sheet. MAFS-20.
3. For construction of a buoy—"Construction of an Artificial Reef Buoy," a Marine Advisory Fact Sheet. MAFS-9.
4. For the location of artificial and natural reefs in Florida—"Reef Atlas," a Marine Advisory Bulletin. MAP-9.
5. For local contacts—"Directory of Organizations and Persons Concerned with Artificial Reefs in Florida," a Marine Advisory Fact Sheet. MAFS-35.
6. For construction of an artificial reef—"Financial and Technical Assistance for Artificial Fishing Reefs," a Department of Natural Resources Fact Sheet, may be obtained from the Department of Natural Resources, 3900 Commonwealth Blvd., Tallahassee, FL 32203.
7. Conference Proceedings:
 - a) "Artificial Reefs in Florida," proceedings of a conference held in 1977 in St. Petersburg, FL. Sea Grant Report No. 24.
 - b) "Artificial Reefs," proceedings of a conference held in Daytona Beach, FL, September, 1979. Sea Grant Report No. 41. (For sale—\$3.00. Make check payable to Univ. of Florida. Florida residents add 5% sales tax. Order from the Marine Advisory Program, G022 McCarty Hall, University of Florida, Gainesville, FL 32611).

INTERESTING FACTS ON ARTIFICIAL REEFS IN FLORIDA

Florida is the leading state in the number of permitted artificial reefs, with 173 confirmed or otherwise documented. Several other states do, however, lead Florida in the actual number and variety of midwater fish attracting devices in use.

The first reef permit on file is dated November, 1918.

The heaviest reef construction occurred during the 1970's when 92 reefs were permitted and activated. On the basis of records in this report the trend in construction has been:

prior to 1950	3
1950 - 1960	1
1960 - 1970	15
1970 - 1980	92
1980 to date	36
unknown	26

A marked change has occurred in the type of reef materials used. In earlier days the availability and easy transport of surplus auto tires led to heavy use of these as convenient and inexpensive reef building materials. Surplus small craft and household plumbing, cooking, and refrigerating appliances were also popular materials. However, corrosion, siltation, and storm-related turbulence often caused these reefs to deteriorate completely or to be dispersed to the point of ineffectiveness.

The most recent trend has been to use more stable materials such as cast concrete, bridge rubble, culvert materials, large storage tanks, porcelain fixtures, decommissioned vessels and barges, and similar corrosion-resistant materials.

Several of the larger reefs have been constructed from Liberty ships, or similar large transport vessels. Most recently the first complete oil and gas drilling jacket and platform were deposited in two sections offshore of Pensacola, Florida. An earlier petroleum template had been deposited in the northern Gulf near Carabelle. Hopefully, these two contributions to Florida's fishing environment will be the forerunner of others from petroleum-producing companies.

Several experimental research reefs have been deployed off both the Atlantic and Gulf coasts of Florida. These have been of Japanese manufacture and are being monitored to determine their effectiveness and adaptability to Florida's warm waters. (They are not included in this publication.)

The Dade County area leads the state in the number of maintained artificial reefs (31); other heavily reefed areas include the waters off Duval, Pinellas, and Okaloosa counties. Only two counties on the east coast and two on the gulf coast have no reefs on record, with all others having one or more.



Copies available at:

Sea Grant Marine Advisory Program
G022 McCarty Hall
University of Florida
Gainesville, FL 32611

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