



ENVIRONMENTAL RESOURCES MANAGEMENT  
NATURAL RESOURCES DIVISION  
33 S.W. 2nd AVENUE  
MIAMI, FLORIDA 33130-1540  
(305) 372-6789  
FAX (305) 372-6630

*Miami-Dade County  
Department of Environmental Resources Management*

*Artificial Reef Program*

*Thank you for your interest in the Miami-Dade County Artificial Reef Program. This program was established within the Miami-Dade County, Department of Environmental Resources Management in 1981 to promote the enhancement of our marine resources and to provide recreational destinations to the public for recreational fishing and diving. Since that time, the program has developed into one of the largest and most diverse network of artificial reefs in the world, including fourteen permitted offshore reef sites, as well as 10 sites within Biscayne Bay containing in excess of 100 individual reefs.*

*Attached is a listing of all material placed through June 1998. The listings provide both LORAN-C and Global Positioning System (GPS) coordinates for each reef, as well as its type, size, depth, and other relevant information. The coordinates listed were provided by a number of reliable sources including Pflueger Marine Taxidermy, the Dade Sportfishing Council, Mitch Skaggs of Technical Diving International, and our own records. Please notify us of any inaccuracies, or any coordinates you may have which are not listed here, so that they may be included in future updates of this brochure.*

*The site maps included as part of this package are part of a computer data-base we are developing to catalog coordinates and other information on the artificial reefs in Miami-Dade County. When completed, this system will allow us to provide accurate visual site maps for each reef site in addition to their coordinates, and to include other areas of interest to the public such as natural reef areas, offshore dredge holes, and other features. Much of the information included here can be accessed through the DERM web site at [www.metro-dade/derm](http://www.metro-dade/derm). To access the artificial reef page, select "Environmental Topics" from the DERM Home Page, and then select "artificial reefs" from the topic menu.*

*When using the reef sites for fishing or diving, please practice safe boating, conservation, and common courtesy. Divers utilizing the reef sites should only attempt dives within the levels of their training and experience, and should exercise the same*

*care in avoiding damage to the artificial reef communities as they would on a natural reef. When fishing on the reefs, carefully observe all applicable size and bag limits, and catch and release is strongly encouraged at our sites. Please note and adhere to the attached regulations pertaining to the Key Biscayne Special Management Zone site.*

*The past and future success of the Miami-Dade County artificial reef program is largely dependent upon community involvement and participation. Your assistance in locating suitable reef materials, and providing tax deductible donations to the program to facilitate the cleaning and sinking of reef materials is greatly needed and appreciated. For information on how to obtain copies of this brochure, as well as on pending artificial reef projects, please contact our artificial reef information line at (305)372-6881. If you have any questions or comments on the program, please feel free to contact me directly at (305)372-6850. Thanks again for your support.*

*Sincerely,*

A handwritten signature in black ink, appearing to read 'Brian Flynn', with a large, stylized flourish extending from the end of the name.

*Brian Flynn  
Coastal Programs Administrator*

## ***Pending Artificial Reef Projects for 1998***

***Augie Ferrigno Artificial Reef-*** formerly known as the M/V Rex Bear, this 273' cargo freighter was renamed in honor of a prominent South Dade County angler and fishing tackle supplier. After spending over four years on the Miami River as a navigation and environmental hazard, the Atlantic Gamefish Foundation (AGF) with support from DERM, the U.S. Coast Guard, and the Florida Marine Patrol successfully negotiated the donation of the vessel to the AGF. The vessel was moved to the DERM staging site on the Miami River where it was cleaned and prepared for sinking. All costs associated with the acquisition and deployment of this reef were covered by the AGF, and at no cost to the county.

***UPDATE:*** This project was completed on June 16, 1998 when it was sunk at the Key Biscayne Special Management Zone Reef Site in 226' of water.

***M/V Ocean Freeze Artificial Reef-*** as with the Augie Ferrigno, this vessel was acquired by the Atlantic Gamefish Foundation, who will provide the labor and funding required to clean and deploy this vessel. At 297' in length, this vessel will be the largest ship ever sunk as an artificial reef by the county. This vessel is targeted for deployment at the Fish and Game Unlimited site in south Dade County in early to mid-July, 1998.

***Atlas Recycling Barges-*** As part of a settlement agreement related to several environmental violations at their site, Atlas Metal recycling has donated two, 195'X35'X20' open decked hopper barges to the artificial reef program. These vessels are currently being moored at the Port of Miami pending final site selection. Tentative deployment date Summer 1998.

***Venetian Causeway Bridge Demolition-*** this ongoing project includes the placement of approximately 80,000 tons of clean concrete bridge sections from the demolition and refurbishing of the Venetian Causeway at the Julia Tuttle Reef Site. Anticipated completion date Summer 1998.

***Ft. Lauderdale Bridge Sections-*** this project includes the placement of approximately 10,000 tons of clean concrete bridge sections from the refurbishing of the 17th Street Causeway in Ft. Lauderdale at the Dumfoundling Bay Reef Site. Anticipated completion date July 1998.

## *Artificial Reef Program Background*

*The Dade County Artificial Reef Program was established in 1981, and has been administered by the Department of Environmental Resources Management (DERM), along with several other programs whose principal goal was to restore and enhance the values and qualities of coastal resources. Artificial reef materials provide an alternative hard substrate in areas where it does not naturally exist or where bottom habitats had been damaged by past development practices. The artificial reefs provide a stable substrate for attached plants and animals, which together with the man-made materials provide habitat for fish and other larger marine life. In addition to enhancing the area's coastal resources these reefs also provide discrete recreational destinations for fishing and diving.*

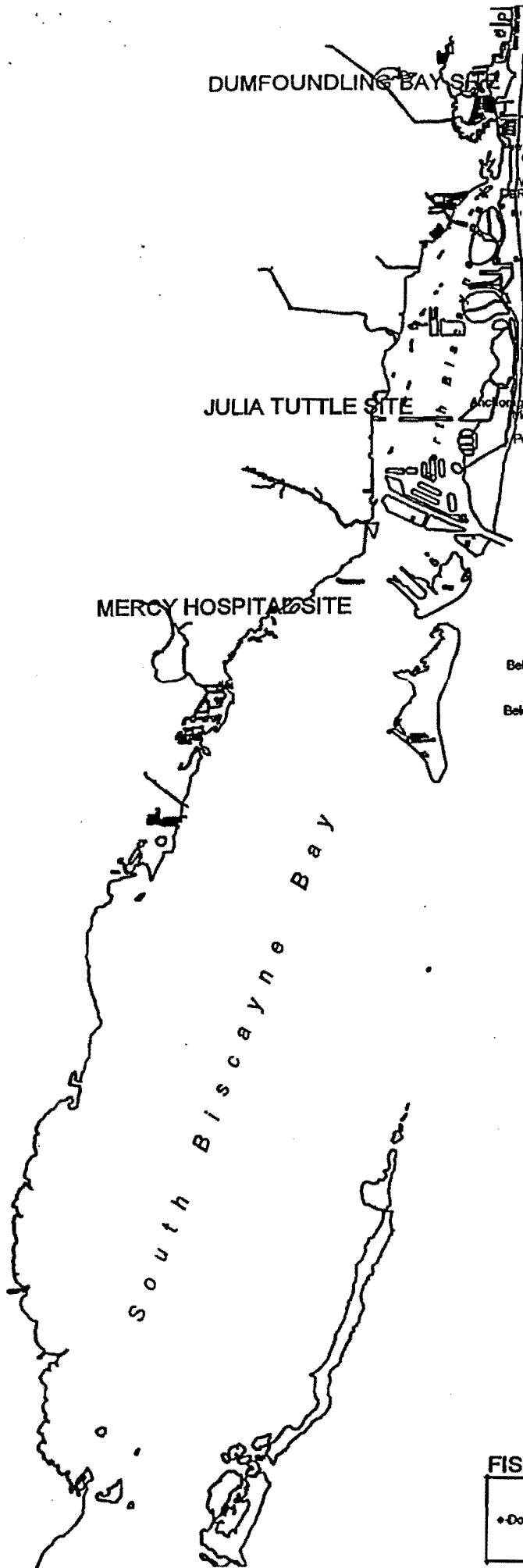
*Artificial reef construction in Dade has a documented history of more than 70 years, beginning in 1920 when an abandoned ship on the Miami River was sunk off the coast to create a new fishing area. This motivation for constructing artificial reefs continued in the 1940s through the efforts of charter boat captains of the "Pier 5" dock on Miami Beach. Pflueger Marine Taxidermy made an enormous contribution, acquiring and sinking 15 large vessels from 1969 to 1980. The Miami Sportfishing Club became involved in artificial reef construction, sinking four large vessels south of Fowey Rocks during the 1970s and early 1980s. During the 1980s, the former Dade Sportfishing Council, R.J. Diving Ventures, and Fish & Game Unlimited of Homestead worked to acquire and deploy 12 large vessels and other artificial reef materials. Dade County, seeking to emphasize restoration and enhancement goals and maximize effectiveness of community resources, began coordinating artificial reef construction approximately 15 years ago. During this period, DERM developed permit applications or assisted other applicants to establish eleven offshore and twelve inshore artificial reef sites, which span the length of Dade's 35 nautical-mile coast (see figure 1). DERM has supervised deployment of an extensive amount of material among these sites, including 67 large vessels such as ships, tugboats and barges, two oil platform structures donated by Tenneco Oil Corporation, thousands of tons of cast concrete materials and natural limestone, specially-designed prefabricated modules, aircraft including the "Spirit of Miami" 727 jet airliner, and U.S. Army surplus military tanks. As a result of these combined efforts, the Dade County program is regarded as the largest (in terms of materials deployed) program of its kind in Florida, which leads the nation in number of established artificial reef sites.*

*During the last decade, Dade County has coordinated construction of reefs to restore or mitigate impacts to specific hardbottom habitats damaged by dredging or water quality impacts, as well as to provide enhanced recreational opportunities for the recreational fishing and diving community. By serving as an alternative destination for fishermen and divers, artificial reefs may be used as a management tool to reduce user pressure that otherwise would be directed to natural communities. However, the ability of artificial reefs to attract and support a diverse assemblage of marine life also*

*makes them vulnerable to the potentially adverse effects of unrestrained fishing pressure. For this reason, the county has placed an increased emphasis on proper management of these sites. In 1985 Dade County solicited the South Atlantic Fishery Management Council to establish the Key Biscayne artificial reef site as a Special Management Zone (SMZ) to restrict certain types of fishing gear. In 1990, federal agencies approved the SMZ.*

*Program Staffing. Miami-Dade County has maintained a position dedicated to the artificial reef program since 1981. At present, the artificial reef program is administered by a Coastal Programs Administrator out of the Office of the Director of the Department of Environmental Resources Management. Staffing support for activities such as biological assessments, site identification, and other field activities are provided by DERM's Restoration and Enhancement Section which has 14 marine biologists available.*

*Program Funding. The artificial reef program is funded from a variety of sources, including funds provided to the county through permit or mitigation obligation, private or corporate donations, and state and federal grants. Funds received for the program are deposited into the Artificial Reef Trust Fund and are earmarked for various artificial reef activities. In addition to the funding sources above, other materials suitable for use as artificial reefs such as ships and barges, often become available through the Derelict Vessel Removal Program, which DERM administers in conjunction with the Florida Marine Patrol. Lastly, the program often works closely with private fishing and diving organizations to secure and deploy artificial reef materials at little or no cost to the county.*



•Cruz del Sur

•DERM Modules

DUMFOUNDLING BAY SITE

SUNNY ISLES REEF SITE

Conception  
C-One  
White Coast  
DERM Modules  
Narcis  
Nicolas Comoglio Memorial Reef  
Rossmery  
Crane  
Andy  
Horseboat

HAULOVER REEF SITE

JULIA TUTTLE SITE

PFLUEGER REEF SITE

Lotus  
Deep Freeze  
Raychel  
Tortuga

ANCHORAGE AREA SITE

Anchorage Boulders  
Miss Patricia  
Tanks  
Police Barge

PORT OF MIAMI MITIGATION SITE A - North

Module Reef

PORT OF MIAMI MITIGATION SITE B - South

Boulder Reef

MERCY HOSPITAL SITE

KEY BISCAYNE SITE

Belzona Barge  
Rio Miami  
Biscayne  
Belcher Barge  
Mystic Isle  
Star Trek  
Lakeland  
Spirit of Miami

R.J. DIVING VENTURES SITE

Ultra Freeze  
Tarpoon  
Hopper Barge  
St. Anne de Aury

DADE SPORTFISHING COUNCIL - NORTH SITE

Blue Fire

DADE SPORTFISHING COUNCIL - MIDDLE SITE

DADE SPORTFISHING COUNCIL - SOUTH SITE

Almirante

FISH AND GAME UNLIMITED SITE

Doc DeMilly

A t l a n t i c O c e a n

| MATERIAL                      |                               | GPS         |              |                |                  |                 |                  |
|-------------------------------|-------------------------------|-------------|--------------|----------------|------------------|-----------------|------------------|
| <u>Name</u>                   | <u>Description</u>            | <u>DATE</u> | <u>DEPTH</u> | <u>PROFILE</u> | <u>LORAN-C</u>   | <u>Latitude</u> | <u>Longitude</u> |
| <b>TENNECO REEF SITE:</b>     |                               |             |              |                |                  |                 |                  |
|                               | 3 Platform structures         | Oct-85      | 90' to 110   | 40'            | 14246.9, 62122.3 | 25° 58' 57.1"   | 80° 05' 06.0"    |
| "Cruz Del Sur"                | 2 Jacket structures           | Oct-85      | 85 to 190    | 75'            | 14247.2, 62120.8 | 25° 58' 53.4"   | 80° 04' 47.9"    |
|                               | 287' steel ship               | Dec-86      | 240'         | 95'            | 14246.1, 62121.0 | 25° 58' 10.0"   | 80° 04' 38.2"    |
| <b>HAULOVER REEF SITE:</b>    |                               |             |              |                |                  |                 |                  |
|                               | Centerpoint                   |             |              |                |                  | 25° 54' 08.0"   | 80° 04' 43.0"    |
|                               | Haulover Northwest corner     |             | 65'          |                |                  | 25° 54' 38.4"   | 80° 05' 32.6"    |
|                               | Haulover Northeast corner     |             | 435'         |                |                  | 25° 54' 37.8"   | 80° 03' 52.9"    |
|                               | Haulover Southwest corner     |             | 65'          |                |                  | 25° 53' 38.2"   | 80° 05' 33.1"    |
|                               | Haulover Southeast corner     |             | 435'         |                |                  | 25° 53' 37.6"   | 80° 03' 53.4"    |
| "Andro"                       | 165' steel ship               | Dec-85      | 103'         | 25'            | 14237.7, 62129.4 | 25°             | 80°              |
| "Narwal"                      | 137' steel ship               | Apr-86      | 115'         | 18'            | 14239.7, 62129.4 | 25°             | 80°              |
|                               | 360 tons of concrete pipe     | May-87      | 120'         | 8'             | 14237.6, 62129.4 | 25°             | 80°              |
| "Rossmerry"                   | 195' steel ship               | Oct-87      | 240'         | 20'            | 14239.6, 62126.1 | 25°             | 80°              |
|                               | 50 tons of concrete pipe      | Jun-89      | 338'         | 4'             | 14238.6, 62126.2 | 25°             | 80°              |
| Liberty Ship                  | 400 steel ship                | May-76      | 372'         | 20'            | 14239.4, 43104.5 | 25°             | 80°              |
| <b>SUNNY ISLES REEF SITE:</b> |                               |             |              |                |                  |                 |                  |
|                               | Centerpoint                   |             | 68'          |                |                  | 25° 54' 23.0"   | 80° 05' 23.0"    |
|                               | SI NW Cornerpoint             |             | 68'          |                |                  | 25° 54' 38.0"   | 80° 05' 27.0"    |
|                               | SI NE Cornerpoint             |             | 68'          |                |                  | 25° 54' 38.0"   | 80° 05' 19.0"    |
|                               | SI SW Cornerpoint             |             | 68'          |                |                  | 25° 54' 08.0"   | 80° 05' 27.0"    |
|                               | SI SE Cornerpoint             |             | 68'          |                |                  | 25° 54' 08.0"   | 80° 05' 19.0"    |
| "C-One"                       | steel tug                     | Nov-90      | 68'          | 33'            | 14239.0, 62129.4 | 25° 54' 31.4"   | 80° 05' 24.4"    |
| "White Coast"                 | 38' steel tug                 | May-95      | 68'          | 10'            | 14239.0, 62129.4 | 25° 45' 31.4"   | 80° 05' 24.4"    |
| "Concepcion"                  | 150' steel ship               | Jun-91      | 68'          | 20'            | 14293.0, 62129.4 | 25° 54' 33.7"   | 80° 05' 23.8"    |
|                               | 320 tons of concrete pipe     | Jul-91      | 68'          | 12'            | 14239.0, 62129.4 | 25° 54' 33.7"   | 80° 05' 23.8"    |
|                               | 50 DERM concrete modules      | Mar-93      | 68'          | 5'             | 14238.9, 62129.4 | 25° 54' 27.8"   | 80° 05' 22.6"    |
|                               | 1500 tons of Ilmerock boulder | Mar-93      | 68'          | 5'             | 14238.9, 62129.4 | 25° 54' 27.8"   | 80° 05' 22.6"    |
|                               | 314 DERM concrete modules     | Oct-96      | 68'          | 5'             |                  | 25° 54' 14.1"   | 80° 05' 21.8"    |
|                               | 8200 tons of Ilmerock boulder | Oct-96      | 68'          | 10'            |                  | 25° 54' 14.1"   | 80° 05' 21.8"    |
| <b>PFLUEGER REEF SITE:</b>    |                               |             |              |                |                  |                 |                  |
|                               | Centerpoint                   |             |              |                |                  | 25° 49' 34.0"   | 80° 04' 54.0"    |
|                               | Pfleuger NW Cornerpoint       |             | 100'         |                |                  | 25° 50' 19.1"   | 80° 05' 04.7"    |
|                               | Pfleuger NE Cornerpoint       |             | 250'         |                |                  | 25° 50' 19.0"   | 80° 04' 42.6"    |
|                               | Pfleuger SW Cornerpoint       |             | 100'         |                |                  | 25° 48' 49.0"   | 80° 05' 05.4"    |
|                               | Pfleuger SE Cornerpoint       |             | 250'         |                |                  | 25° 48' 48.9"   | 80° 04' 43.3"    |
| "Tortuga"                     | 165' steel ship               | Apr-95      | 110'         | 40'            |                  | 25° 49' 14.8"   | 80° 05' 06.5"    |
| "Deep Freeze"                 | 210' steel ship               | Oct-76      | 135'         | 30'            | 14238.0, 62134.4 | 25°             | 80°              |
| "Pimellous"                   | 120' steel ship               | May-71      | 135'         |                | 14232.3, 43112.4 | 25° 49' 18.1"   | 80° 04' 56.9"    |
| "Mine Sweeper"                | 177' wooden vessel            | Jun-71      | 180'         |                | 14233.7, 43110.7 | 25°             | 80°              |
| "LCI"                         | 150' steel hull               | Oct-69      | 202'         | 5'             | 14231.7, 43112.0 | 25°             | 80°              |
|                               | Steel dredge pipes            | Mar-70      | 204'         | 3'             | 14231.5, 43112.1 | 25°             | 80°              |
| "Lotus"                       | 110' steel ship               | Feb-71      | 218'         | 15'            | 14233.0, 43110.1 | 25°             | 80°              |
| "Fire Boat"                   | 110' steel ship               | Jun-73      | 222'         | 12'            | 14232.8, 43109.3 | 25°             | 80°              |
| "West End"                    | 110' steel hull               | Jul-73      | 228'         |                | 14232.4, 43111.3 | 25°             | 80°              |
| "Hopper Barge"                | 175' steel barge              | Dec-71      | 234'         |                | 14229.5, 43113.5 | 25°             | 80°              |
| "Ostwind"                     | 80' steel hull                | Jun-89      | 275'         | 14'            | 14230.7, 62132.2 | 25°             | 80°              |
| "San Raphael"                 | steel ship                    |             | 282'         |                | 14233.2, 43110.5 | 25°             | 80°              |
| "Walka Q"                     |                               |             | 282'         |                | 14233.1, 43110.3 | 25°             | 80°              |
| "Dry Docks"                   |                               |             | 330'         |                | 14231.5, 43111.4 | 25°             | 80°              |
| South Pointe Water Tower      | 195' Barge/ 45' Water Tank    | Jun-97      | 170'         | 25'            |                  | 25 49' 19.3"    | 80 05' 6.0"      |
| St. Henry Express             | 120' Steel Freighter          | Feb-97      | 113'         | 20'            |                  | 25 49' 21.2"    | 80 05' 6.8"      |
| Betek Ar Pen                  | 70' Steel Dive Boat           | Jun-97      | 110'         | 15'            |                  | 25 49' 19.9"    | 80 05' 5.8"      |

| <u>Name</u>                                                 | <u>Description</u>                | <u>DATE</u>   | <u>DEPTH</u> | <u>PROFILE</u> | <u>LORAN-C</u>   | <u>GPS</u>      |                  |
|-------------------------------------------------------------|-----------------------------------|---------------|--------------|----------------|------------------|-----------------|------------------|
| <b>ANCHORAGE AREA SITE:</b>                                 |                                   |               |              |                |                  | <u>Latitude</u> | <u>Longitude</u> |
|                                                             | <i>Anchorage Site</i>             |               |              |                |                  |                 |                  |
|                                                             | <i>Anchorage Northwest corner</i> |               | 30'          |                |                  | 25° 49' 07.0"   | 80° 05' 46.0"    |
|                                                             | <i>Anchorage Northeast corner</i> |               | 55'          |                |                  | 25° 49' 07.0"   | 80° 05' 25.0"    |
|                                                             | <i>Anchorage Southwest corner</i> |               | 30'          |                |                  | 25° 48' 20.0"   | 80° 05' 46.0"    |
|                                                             | <i>Anchorage Southeast corner</i> |               | 55'          |                |                  | 25° 48' 20.0"   | 80° 05' 25.0"    |
| "Coquina"                                                   | 55' steel cargo                   | Jun-87        | 44'          | 5'             | 14228.8, 62137.4 | 25° _____       | 80° _____        |
| "Shamrock"                                                  | 120' steel                        | Jun-85        | 44'          | 15'            | 14229.0, 62137.4 | 25° _____       | 80° _____        |
|                                                             | 60 tons of concrete pipe          | Aug-86        | 45'          | 8'             | 14229.3, 62137.5 | 25° _____       | 80° _____        |
|                                                             | Six 90' concrete beams            | Dec-87        | 45'          | 9'             | 14229.3, 62137.5 | 25° _____       | 80° _____        |
| "John C. Koppin Memorial"                                   | 75' steel barge                   |               | 45'          | 7'             | 14229.3, 62137.5 | 25° 48' 49.2"   | 80° 05' 28.2"    |
| "Cote Reef"                                                 |                                   | May-90        | 45'          | 16'            | 14228.9, 62137.8 | 25° _____       | 80° _____        |
| "Billy's Barge"                                             | 100' steel barge                  | Dec-87        | 48'          | 10'            | 14228.9, 62137.2 | 25° _____       | 80° _____        |
|                                                             | Two M60 Army Tanks                | Jun-94        | 48'          | 10'            | 14229.3, 62137.4 | 25° 48' 40.8"   | 80° 05' 28.8"    |
|                                                             | 1060 tons of limerock boulder     | Jun-94        | 48'          | 10'            | same             | 25° _____       | 80° _____        |
|                                                             | 1024 tons of limerock boulder     | Jun-95        | 50'          | 12'            | 14229.5, 62136.6 | 25° _____       | 80° _____        |
|                                                             | 19 steel antenna pyramids         | Aug-88        | 50'          | 20'            | 14229.3, 62137.1 | 25° 48' 40.7"   | 80° 05' 23.1"    |
| "Mathew Lawrence" Memorial R                                | 110' steel ship/barge             | Jan-96        | 50'          | 15'            | 14229.1, 62137.0 | 25° 48' 39.6"   | 80° 05' 23.4"    |
|                                                             | 400 tons of concrete pipe         | Jun-87        | 51'          | 8'             | 14229.3, 62137.1 | 25° _____       | 80° _____        |
| "Esjoo"                                                     | 70' steel cargo                   | Jun-87        | 51'          | 15'            | 14229.3, 62136.7 | 25° _____       | 80° _____        |
|                                                             | 360 tons of concrete pipe         | Sep-87        | 51'          | 8'             | 14228.9, 62137.3 | 25° _____       | 80° _____        |
| "Miss Karline"                                              | 85' steel hull                    | Jun-89        | 51'          | 15'            | 14229.5, 62136.6 | 25° _____       | 80° _____        |
| "Patricia"                                                  | 65' steel tug                     | Jun-90        | 53'          | 15'            | 14229.5, 62136.6 | 25° _____       | 80° _____        |
| <b>PORT OF MIAMI MITIGATION SITE A - North: Centerpoint</b> |                                   |               |              |                |                  | 25° 46' 17.3"   | 80° 06' 23.1"    |
|                                                             | <i>POMA Northwest corner</i>      |               | 25'          |                |                  | 25° 46' 30.0"   | 80° 06' 32.0"    |
|                                                             | <i>POMA Northeast corner</i>      |               | 25'          |                |                  | 25° 46' 30.0"   | 80° 06' 14.0"    |
|                                                             | <i>POMA Southwest corner</i>      |               | 25'          |                |                  | 25° 46' 06.0"   | 80° 06' 35.0"    |
|                                                             | <i>POMA Southeast corner</i>      |               | 25'          |                |                  | 25° 46' 06.0"   | 80° 06' 13.0"    |
|                                                             | 650 DERM modular reef units       | Jan to Aug-96 | 25'          | 5'             |                  |                 |                  |
|                                                             | 495 modules on 25' centers        |               |              |                |                  |                 |                  |
|                                                             | (29x17 matrix)                    | Jan to Jul-96 | 25'          | 5'             |                  | 25° 46' 28.3"   | 80° 06' 25.8"    |
|                                                             | matrix)                           | Jul-96        | 25'          | 5'             |                  | 25° 46' 22.4"   | 80° 06' 25.9"    |
|                                                             | matrix)                           | Jul-96        | 25'          | 5'             |                  | 25° 46' 15.5"   | 80° 06' 28.1"    |
|                                                             | 50 on 10' centers (clustered)     | Aug-96        | 25'          | 5'             |                  | 25° 46' 05.2"   | 80° 06' 16.5"    |
| <b>PORT OF MIAMI MITIGATION SITE B - South:</b>             |                                   |               |              |                |                  |                 |                  |
|                                                             | <i>POMB Northwest corner</i>      |               | 45'          |                |                  | 25° 45' 09.0"   | 80° 05' 44.0"    |
|                                                             | <i>POMB Northeast corner</i>      |               | 45'          |                |                  | 25° 45' 09.0"   | 80° 05' 33.0"    |
|                                                             | <i>POMB Southwest corner</i>      |               | 45'          |                |                  | 25° 44' 51.0"   | 80° 05' 47.0"    |
|                                                             | <i>POMB Southeast corner</i>      |               | 45'          |                |                  | 25° 44' 52.0"   | 80° 05' 35.0"    |
|                                                             | boulder                           | Jun95 - Sept9 | 45'          | 10' - 15'      |                  | 25° 45' 01.0"   | 80° 05' 41.1"    |
| <b>KEY BISCAYNE SITE: "SPECIAL MANAGEMENT ZONE"</b>         |                                   |               |              |                |                  | 25° 42' 03.5"   | 80° 04' 51.5"    |
|                                                             | <i>SMZ Northwest corner</i>       | est. Nov-90   | 40'          |                |                  | 25° 42' 48.0"   | 80° 05' 31.0"    |
|                                                             | <i>SMZ Northeast corner</i>       | est. Nov-90   | 350'         |                |                  | 25° 42' 48.0"   | 80° 04' 12.0"    |
|                                                             | <i>SMZ Southwest corner</i>       | est. Nov-90   | 40'          |                |                  | 25° 41' 19.0"   | 80° 05' 31.0"    |
|                                                             | <i>SMZ Southeast corner</i>       | est. Nov-90   | 350'         |                |                  | 25° 41' 19.0"   | 80° 04' 12.0"    |
| "Belzona Barge"                                             | 215' steel barge                  | Aug-91        | 40'          | 10'            | 14217.7, 62164.1 | 25° _____       | 80° _____        |
| "Biscayne"                                                  | 120' steel hull                   | Dec-74        | 55'          | 15'            | 14218.5, 62145.0 | 25° _____       | 80° _____        |
| "Miracles Express"                                          | steel ship                        | Jul-87        | 55'          | 8'             | 14218.5, 62145.0 | 25° _____       | 80° _____        |
| "Big Lou"                                                   | 36' steel hull                    | Mar-89        | 55'          | 7'             | 14217.9, 62145.2 | 25° _____       | 80° _____        |
| "Belcher Barge"                                             | 195' steel barge                  | Nov-85        | 58'          | 10'            | 14217.8, 62142.2 | 25° 41' 48.6"   | 80° 05' 16.8"    |

| Key Biscayne Site (Cont.)                       | Material Type                | Date        | Depth | Profile | LORAN-C          | Latitude      | Longitude     |
|-------------------------------------------------|------------------------------|-------------|-------|---------|------------------|---------------|---------------|
| "Belzona Two"                                   | 90' steel tug                | Feb-91      | 60'   | 15'     | 14217.8, 62145.1 | 25° 41' 45.5" | 80° 05' 15.6" |
| "Belzona Three"                                 | 100' steel tug               | Jun-91      | 65'   | 15'     | 14217.8, 62145.0 | 25° 41' 45.0" | 80° 05' 14.4" |
| "John Maydak Memorial Reef"                     | 50' and 75' steel tugs       | Jul-92      | 66'   | 10'     | 14218.2, 62144.7 | 25° _____     | 80° _____     |
| "Rio Miami"                                     | 105' steel tug               | Nov-89      | 67'   | 30'     | 14218.4, 62144.6 | 25° _____     | 80° _____     |
| "Belzona One"                                   | 85' steel tug                | May-90      | 68'   | 20'     | 14217.8, 62144.9 | 25° 41' 45.0" | 80° 05' 13.2" |
| "Proteus"                                       | 220' steel hull              | Jan-85      | 72'   | 18'     | 14218.7, 62144.3 | 25° _____     | 80° _____     |
| "South Seas"                                    | 175' steel hull              | Feb-83      | 73'   | 15'     | 14218.2, 62144.7 | 25° _____     | 80° _____     |
| "Schurgar's Barge"                              | 90' steel barge              | Oct-96      | 74'   | 10'     | _____            | 25° 41' 49.3" | 80° 05' 13.2" |
| "Spirit of Miami"                               | 727 jet                      | Sep-83      | 82'   | 12'     | 14218.1, 62144.6 | 25° 41' 52.8" | 80° 05' 13.2" |
|                                                 | 20 steel concrete mixer drum | Sep-82      | 83'   | 8'      | 14218.4, 62144.6 | 25° _____     | 80° _____     |
|                                                 | 50 steel Chevron storage tan | Jan-83      | 84'   | 8'      | 14218.4, 62144.6 | 25° _____     | 80° _____     |
|                                                 | 40 steel house boat          | May-82      | 95'   | _____   | 14218.62 62144.4 | 25° _____     | 80° _____     |
|                                                 | 100' steel barge             | Sep-81      | 100'  | 8'      | 14218.6, 62144.4 | 25° _____     | 80° _____     |
| "Arida"                                         | 165' steel hull              | Aug-82      | 88'   | 12'     | 14219.7, 62143.7 | 25° _____     | 80° _____     |
| "Orion"                                         | 118' steel tug               | Dec-81      | 88'   | 15'     | 14217.4, 62145.0 | 25° 41' 27.6" | 80° 05' 10.8" |
| "Sheri-Lyn"                                     | 235' steel ship              | Jun-87      | 100'  | 15'     | 14218.5, 62144.5 | 25° _____     | 80° _____     |
| "Lakeland"                                      | 200' steel ship              | Jun-82      | 135'  | 25'     | 14218.6, 62143.8 | 25° _____     | 80° _____     |
|                                                 | 500 tons of concrete bridge  | Jul-86      | 135'  | 15'     | 14218.6, 62143.8 | 25° _____     | 80° _____     |
| "Mystick Isle"                                  | 103' steel ferry             | May-86      | 185'  | 28'     | 14219.4, 62142.2 | 25° _____     | 80° _____     |
| "Star Trek"                                     | 200' steel ship              | Jul-82      | 210'  | 32'     | 14219.0, 62142.2 | 25° _____     | 80° _____     |
| NW SMZ Buoy Reef                                | 10 Modules/ 550 tons boulder | Jun-97      | 38'   | 12'     | _____            | 25 42' 48.0"  | 80 05' 31"    |
| SW SMZ Buoy Reef                                | 10 Modules/ 550 tons boulder | Jun-97      | 38'   | 12'     | _____            | 25 41' 19"    | 80 05' 31"    |
| "Davey Hurst"                                   | 90' steel freighter          | Apr-98      | 265'  | 18'     | _____            | 25 41' 54.2"  | 80 04' 25.7"  |
| "Jack Falafian"                                 | 80' Steel Tug                | May-98      | 160'  | 16'     | _____            | 25 42' 11.8"  | 80 04' 58.2"  |
| "Aagle Ferrigno" (Rex Bear)                     | 273' Steel Freight           | Jun-98      | 226'  | 80'     | _____            | 25 42' 28.9"  | 80 04' 38.0"  |
| <b>R.J. DIVING VENTURES SITE:</b>               |                              | Centerpoint | 1983  |         |                  | 25° 37' 40.0" | 80° 04' 40.0" |
|                                                 | RJ NW Cornerpoint            | 1983        | 80'   |         |                  | 25° 38' 40.5" | 80° 05' 22.7" |
|                                                 | RJ NE Cornerpoint            | 1983        | 300'  |         |                  | 25° 38' 39.9" | 80° 03' 56.4" |
|                                                 | RJ SW Cornerpoint            | 1983        | 80'   |         |                  | 25° 36' 40.1" | 80° 05' 23.6" |
|                                                 | RJ SE Cornerpoint            | 1983        | 300'  |         |                  | 25° 36' 39.5" | 80° 03' 57.3" |
| "Steane D' Auray"                               | 110' steel                   | Mar-86      | 68'   | 28'     | 14209.6, 62151.8 | 25 37' 04.0"  | 80 05' 26.4"  |
| "Tarpoon"                                       | 165' steel                   | May-88      | 65'   | 5'      | _____            | 25 37' 19.1"  | 80 05' 26.9"  |
| "Ultra Freeze"                                  | 195' steel ship              | Jul-84      | 120'  | 45'     | 14211.1, 62150.0 | 25 37' 46.2"  | 80 05' 12.6"  |
| "Hopper Barge"                                  | 150' steel                   | Jun-81      | 163'  | 12'     | 14210.3, 62149.9 | 25 37' 08.8"  | 80 05' 00.2"  |
| <b>DADE SPORTFISHING COUNCIL - NORTH SITE:</b>  |                              | Centerpoint | 1978  |         |                  | 25° 33' 42.0" | 80° 05' 02.0" |
|                                                 | DSC-N NW Cornerpoint         | 1978        | 80'   |         |                  | 25° 34' 27.3" | 80° 05' 18.3" |
|                                                 | DSC-N NE Cornerpoint         | 1978        | 300'  |         |                  | 25° 34' 27.1" | 80° 04' 45.1" |
|                                                 | DSC-N SW Cornerpoint         | 1978        | 80'   |         |                  | 25° 32' 56.9" | 80° 05' 18.9" |
|                                                 | DSC-N SE Cornerpoint         | 1978        | 300'  |         |                  | 25° 32' 56.7" | 80° 04' 45.8" |
| "Blue Fire"                                     | 175' steel ship              | Jan-83      | 110'  | 20'     | 14204.6, 62155.5 | 25 34' 00.5"  | 80 05' 26.5"  |
| "Raldroad"                                      | 100' steel barge             | Oct-80      | 163'  | 11'     | 14206.9, 62152.8 | 25° _____     | 80° _____     |
| "Pioneer One"                                   | 195' steel ship              | Oct-83      | 215'  | 30'     | 14206.2, 62153.6 | 25° _____     | 80° _____     |
| <b>DADE SPORTFISHING COUNCIL - MIDDLE SITE:</b> |                              | Centerpoint | 1978  |         |                  | 25° 31' 41.0" | 80° 05' 16.0" |
|                                                 | DSC-M NW Cornerpoint         | 1978        | 80'   |         |                  | 25° 32' 23.2" | 80° 05' 32.3" |
|                                                 | DSC-M NE Cornerpoint         | 1978        | 300'  |         |                  | 25° 32' 23.0" | 80° 04' 59.1" |
|                                                 | DSC-M SW Cornerpoint         | 1978        | 80'   |         |                  | 25° 30' 59.0" | 80° 05' 32.9" |
|                                                 | DSC-M SE Cornerpoint         | 1978        | 300'  |         |                  | 25° 30' 58.8" | 80° 04' 59.7" |
|                                                 | 40 FP&L steel stacks         | Dec-83      | 190'  | 20'     | 14200.2, 62158.7 | 25° _____     | 80° _____     |
|                                                 | 43 FP&L steel stacks         | Dec-83      | 190'  | 20'     | 14199.9, 62159.1 | 25° _____     | 80° _____     |
| "Sir Scott"                                     | 257' steel ship              | Feb-85      | 220'  | 65'     | 14201.2, 62157.5 | 25° _____     | 80° _____     |
|                                                 | F-4 Fighter Jets             |             | 90'   |         |                  | 25 22' 07.3"  | 80 08' 06.8"  |

| DADE SPORTFISHING COUNCIL - SOUTH SITE: Centerpoint |                      |        |      | LORAN-C | Latitude         | Longitude     |
|-----------------------------------------------------|----------------------|--------|------|---------|------------------|---------------|
|                                                     |                      | 1978   |      |         | 25° 25' 21.0"    | 80° 06' 45.0" |
|                                                     | DSC-S NW Cornerpoint | 1978   | 80'  |         | 25° 26' 03.2"    | 80° 07' 01.3" |
|                                                     | DSC-S NE Cornerpoint | 1978   | 300' |         | 25° 26' 03.0"    | 80° 06' 28.1" |
|                                                     | DSC-S SW Cornerpoint | 1978   | 80'  |         | 25° 24' 39.0"    | 80° 07' 01.9" |
|                                                     | DSC-S SE Cornerpoint | 1978   | 300' |         | 25° 24' 38.8"    | 80° 06' 28.7" |
| "Becher Barge"                                      | 85' steel barge      | Oct-75 | 120' | 10'     | 14187.5, 62174.4 | 25 24' 46.7"  |
| "Almirante"                                         | 200' steel ship      | Apr-75 | 125' | 20'     | 14187.5, 62137.8 | 25° 24' 58.8" |
| "Santa Rita"                                        | 200' steel ship      | Nov-76 | 245' | 25'     | 14188.9, 62170.7 | 25° _____     |
| FISH AND GAME UNLIMITED SITE: Centerpoint           |                      |        |      |         | 25° 22' 03.0"    | 80° 07' 37.0" |
|                                                     | F&G NW Cornerpoint   | 1985   | 65'  |         | 25° 23' 03.4"    | 80° 08' 09.7" |
|                                                     | F&G NE Cornerpoint   | 1985   | 285' |         | 25° 23' 03.0"    | 80° 07' 03.4" |
|                                                     | F&G SW Cornerpoint   | 1985   | 65'  |         | 25° 21' 03.0"    | 80° 08' 10.6" |
|                                                     | F&G SE Cornerpoint   | 1985   | 285' |         | 25° 21' 02.6"    | 80° 07' 04.3" |
| "Doc De Milly"                                      | 287' steel ship      | Mar-88 | 140' | 70'     | 14181.7, 62180.4 | 25 22' 03.4"  |
| "Hugo's April Fool"                                 | 115' steel           | Oct-88 | 145' | 20'     | 14181.7, 62180.5 | 25 22 01.6"   |
| "Berry Patch"                                       | 155' steel ship      | Oct-88 | 150' | 24'     | 14181.8, 62180.4 | 25 22 08.0"   |

The Above listed information has been collected by DERM from field operations and from other reliable sources. We certainly would appreciate your assistance in providing the missing GPS coordinates. To report GPS coordinates which you have obtained, please contact Mr. Brian Flynn, Dade County Coastal Programs Administrator at (305) 372-6860.

Note to GPS Users: To convert the seconds portion of each coordinate listed to a three decimal point number divide by 60. Example:

Listed Coordinate is 25 24' 46.7. Divide 46.7 by 60=0.778

The new coordinate is 25 24.778. Some GPS units will require this conversion prior to Inputting coordinates.

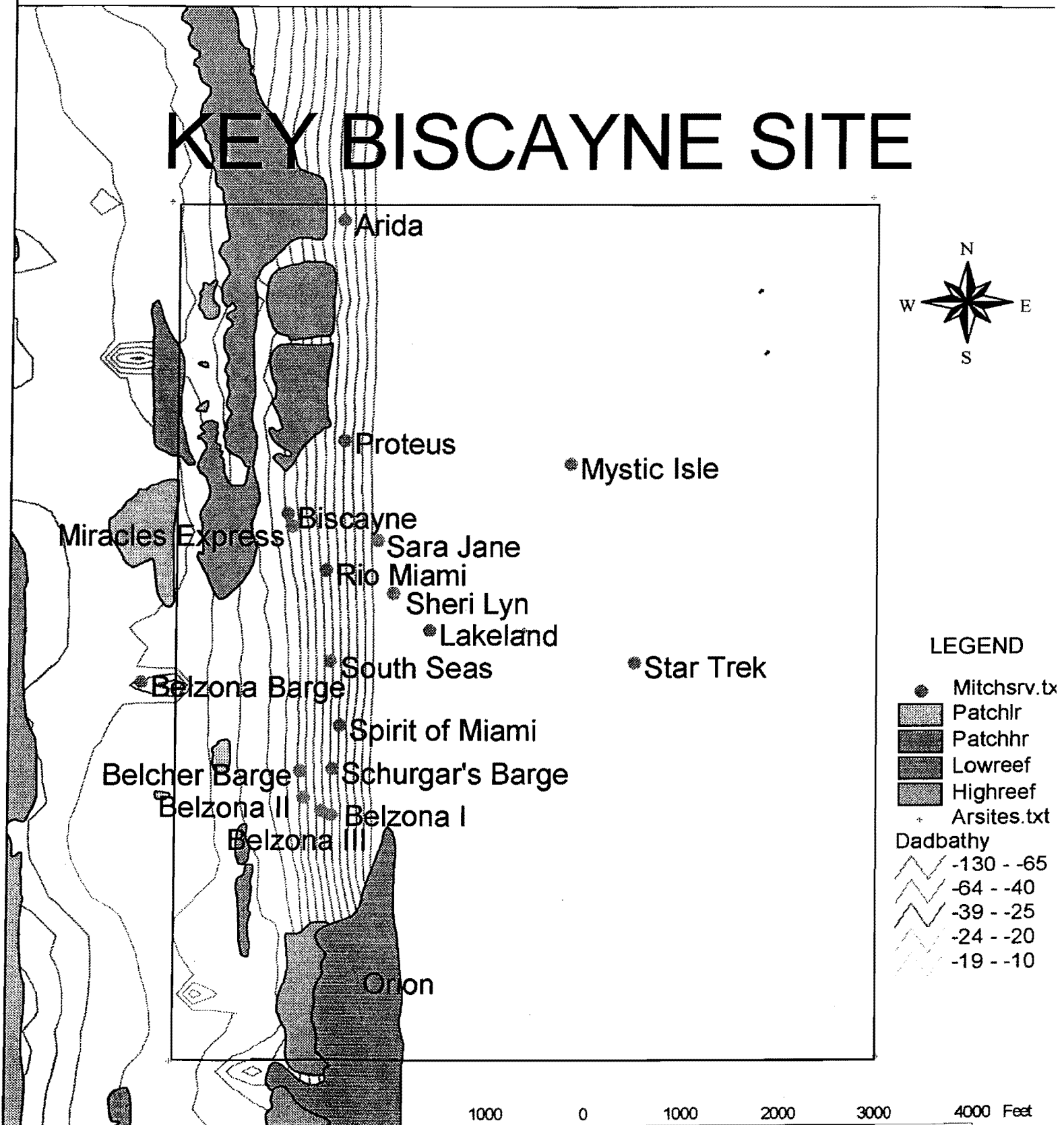


METROPOLITAN DADE COUNTY



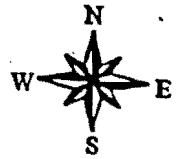
Department of Environmental Resources Management

# KEY BISCAYNE SITE





# REFUGER REEF SITE



Pimellous  
Mine Sweeper  
LCI  
Fire Boat  
West End  
Hopper Barge  
Ostwind  
San Raphael  
Walka Q  
Dry Docks

• Deep Freeze  
• Tortuga • Raychel

\*Coquina  
Shamrock  
Koppin Mem  
Cote Reef  
Lawrence Mem  
Esjoo  
Miss Karline

• Miss Patricia  
• Anchorage Boulders

• Tanks

• Police Barge

## LEGEND

• Mitchrv.txt

■ Patchr

■ Patchr

■ Lowreef

■ Highreef

◆ Arsite.txt

Dabathy

— -130--65

— -64--40

— -39--25

— -24--20

— -19--10

# ANCHORAGE AREA SITE

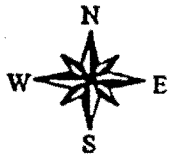
Wrecks or other material located within site  
but as of yet having no known GPS coordinates.

1000 0 1000 2000 Feet





# SUNNY ISLES REEF SITE



• Narwal

• Concepcion

• C-Orfe

• Nick Comoglio Memorial Reef  
(Proposed Location)

• Largo Barge

• Rossmerry

White Coast  
Modules  
Boulders  
Culvert Pipes

# HAULOVER REEF SITE

\*\* Liberty Ship  
Concrete Pipes

• Crane

• Andro

• Houseboat

## LEGEND

• Mitchsv.txt

▨ Patchlr

▨ Patchhr

▨ Lowreef

▨ Highreef

◆ Arsites.txt

Dadbathy

∧ -130 - -65

∧ -64 - -40

∧ -39 - -25

∧ -24 - -20

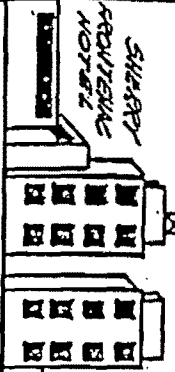
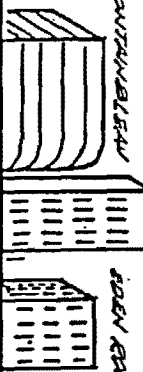
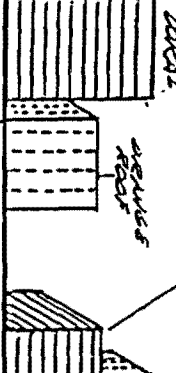
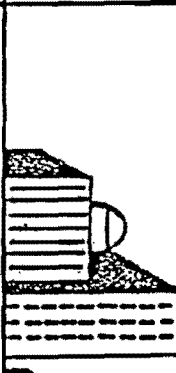
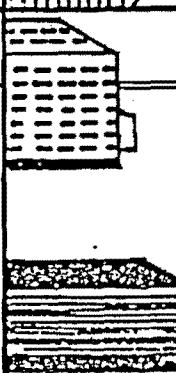
∧ -19 - -10

\*\* Wrecks and other material located within site  
but as of yet having no known GPS coordinates.

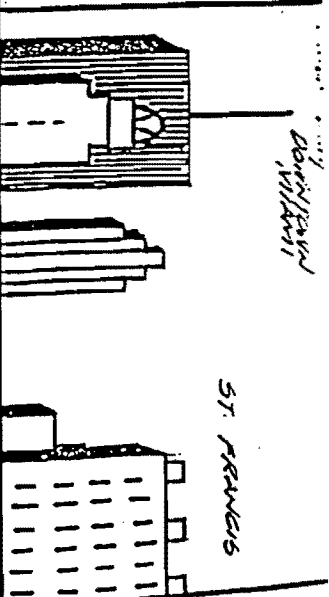
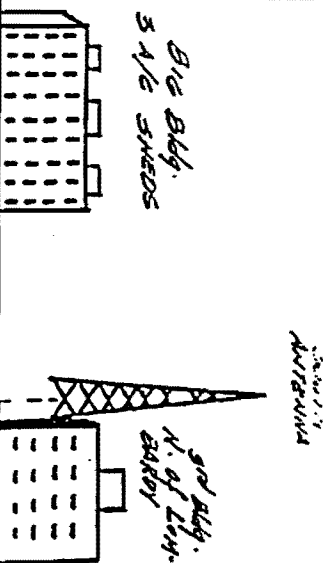
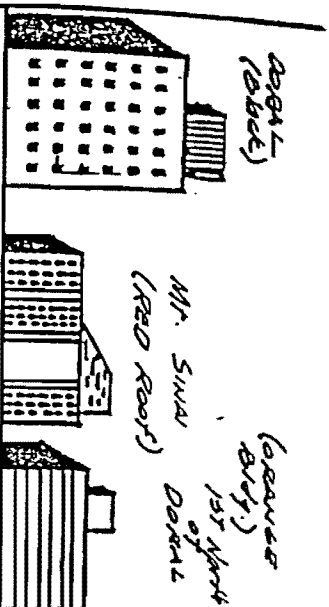
1000 0 1000 2000 Feet

# SITE C: PFLUEGER ARTIFICIAL REEF SITE\*

(PAGE 1/2)

|                                                                                                                                                                  |                                                                                                                                                        |                                                                                                                                        |                                                                                                                                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
|  <p>SHERRY<br/>FOUNTAIN<br/>HOTEL</p> <p>SEA WERT (EN 7)</p> <p>ARGENTINA</p> |  <p>FOUNTAIN<br/>HOTEL</p> <p>SEA WERT (EN 7)</p> <p>ARGENTINA</p> |  <p>SEA WERT (EN 7)</p> <p>ARGENTINA</p>          |  <p>SEA WERT (EN 7)</p> <p>ARGENTINA</p>           |
| <p>VESSEL: MINE SWEeper</p> <p>LENGTH: 177'</p> <p>DATE SUNK: 7/71</p> <p>DEPTH: 180'</p> <p>LOGAN-C:</p> <p>14233.7</p> <p>43110.7</p>                          | <p>VESSEL: HOPPER BARGE</p> <p>LENGTH: 175'</p> <p>DATE SUNK: 12/71</p> <p>DEPTH: 200'</p> <p>LOGAN-C:</p> <p>14229.5</p> <p>43119.5</p>               | <p>VESSEL: DRAGS PIPES</p> <p>LENGTH: 204'</p> <p>DATE SUNK: 3/70</p> <p>DEPTH: 200'</p> <p>LOGAN-C:</p> <p>14231.5</p> <p>43112.1</p> | <p>VESSEL: DRAGS PIPES</p> <p>LENGTH: 210'</p> <p>DATE SUNK: 10/71</p> <p>DEPTH: 135'</p> <p>LOGAN-C:</p> <p>14230.9</p> <p>43134.4</p> |
|  <p>SEA WERT (EN 7)</p> <p>ARGENTINA</p>                                        |  <p>SEA WERT (EN 7)</p> <p>ARGENTINA</p>                             |  <p>SEA WERT (EN 7)</p> <p>ARGENTINA</p>            |  <p>SEA WERT (EN 7)</p> <p>ARGENTINA</p>             |
| <p>VESSEL: LCI</p> <p>LENGTH: 150'</p> <p>DATE SUNK: 10/69</p> <p>DEPTH: 200'</p> <p>LOGAN-C:</p> <p>14231.7</p> <p>43118.0</p>                                  | <p>VESSEL: DER BOCK</p> <p>LENGTH: 150'</p> <p>DATE SUNK: 10/69</p> <p>DEPTH: 200'</p> <p>LOGAN-C:</p> <p>14231.5</p> <p>43111.4</p>                   | <p>VESSEL: DER BOCK</p> <p>LENGTH: 150'</p> <p>DATE SUNK: 10/69</p> <p>DEPTH: 200'</p> <p>LOGAN-C:</p> <p>14231.5</p> <p>43111.4</p>   | <p>VESSEL: LCI</p> <p>LENGTH: 150'</p> <p>DATE SUNK: 5/71</p> <p>DEPTH: 372'</p> <p>LOGAN-C:</p> <p>14239.4</p> <p>43124.5</p>          |

\* INFORMATION PROVIDED BY PFLUEGER MARINE TAXIDERM



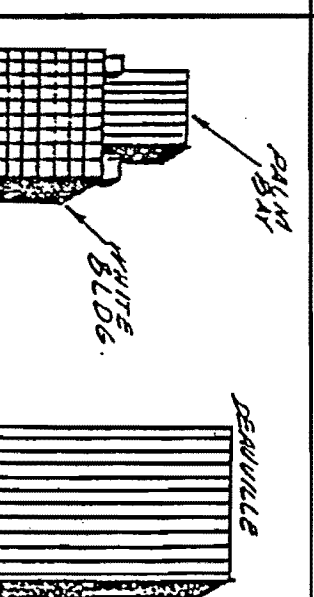
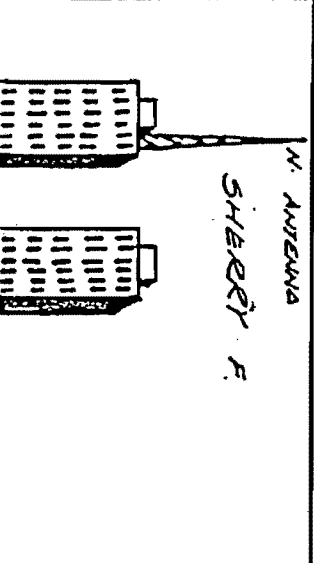
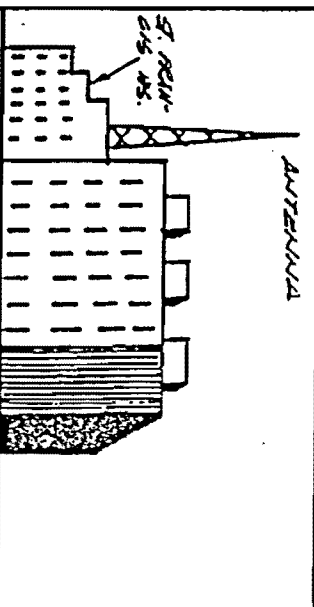
VESSEL : SAN RAFAEL  
LENGTH :  
DATE SUNK :  
LORAN - C :  
14235.2  
43110.5

DEPTH : 330'

VESSEL : WALKER  
LENGTH :  
DATE SUNK :  
LORAN - C :  
14235.1  
43110.3

DEPTH : 202'

VESSEL : PINELLIOUS  
LENGTH : 120'  
DATE SUNK : 5/171  
LORAN - C :  
14232.3  
43112.4



VESSEL : WEST END  
LENGTH : 110'  
DATE SUNK : 7/173  
LORAN - C :  
14232.4  
43111.3

DEPTH : 228'

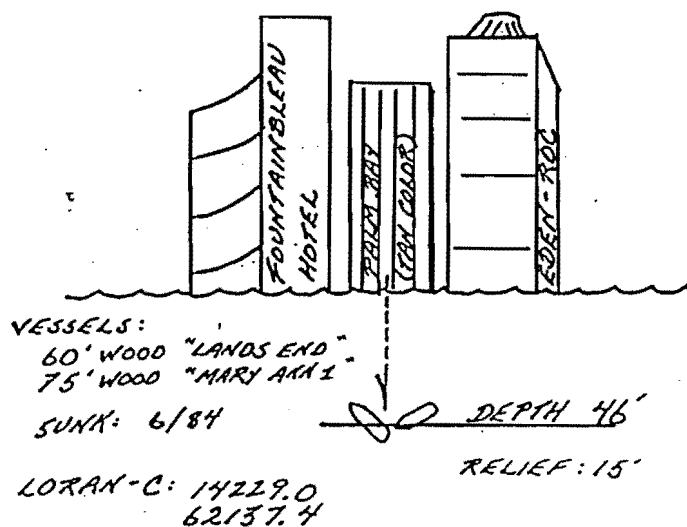
VESSEL : LOTUS  
LENGTH : 110'  
DATE SUNK : 2/71  
LORAN - C :  
14233.0  
43110.1

DEPTH : 216' - 220'

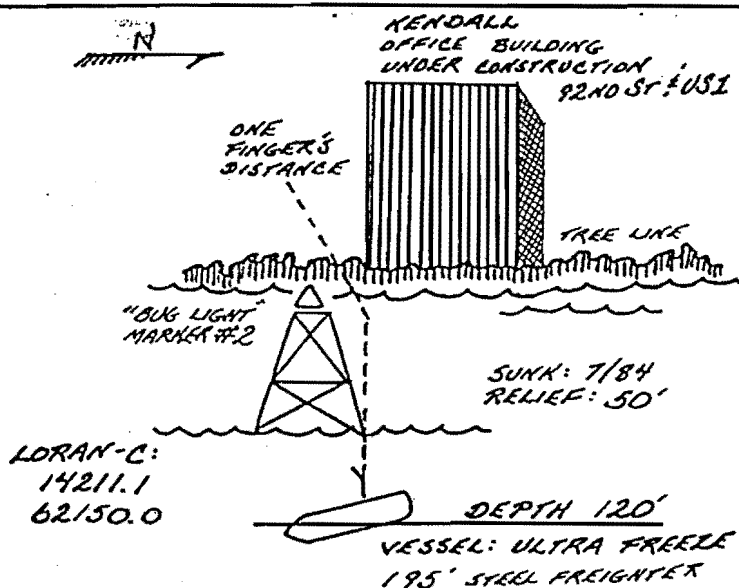
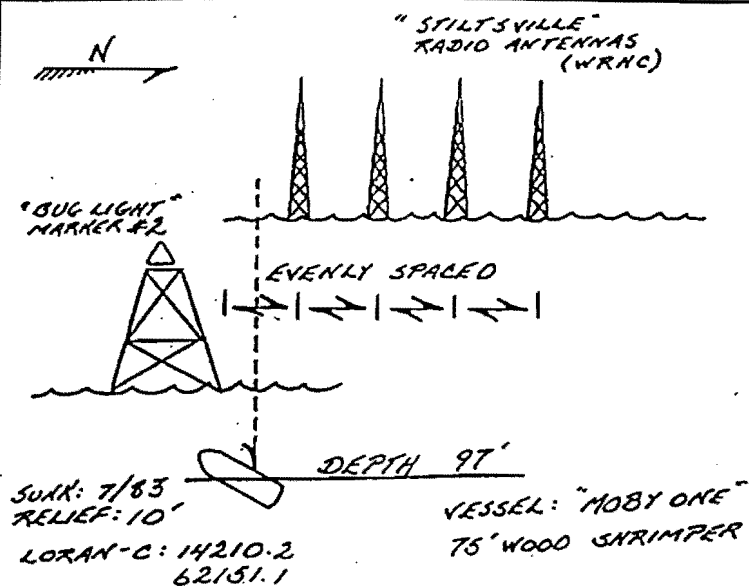
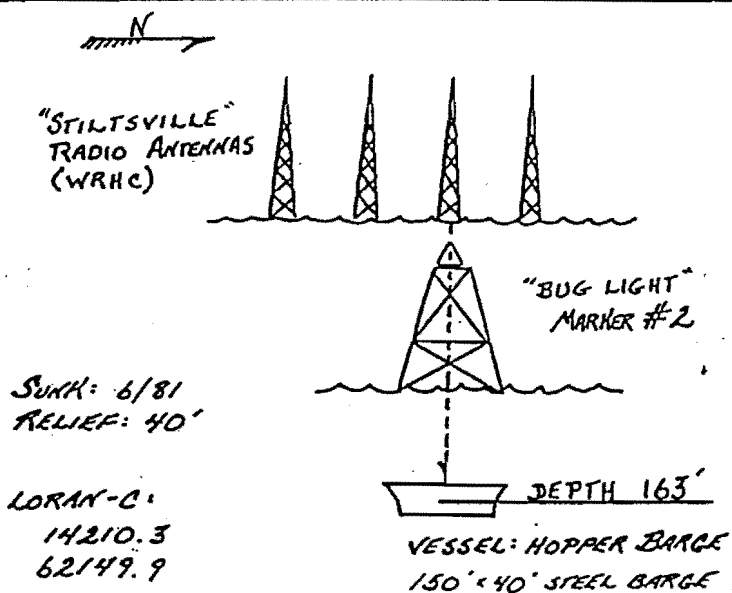
VESSEL : FIRE BOAT  
LENGTH : 110'  
DATE SUNK : C/173  
LORAN - C :  
14232.8  
43109.3

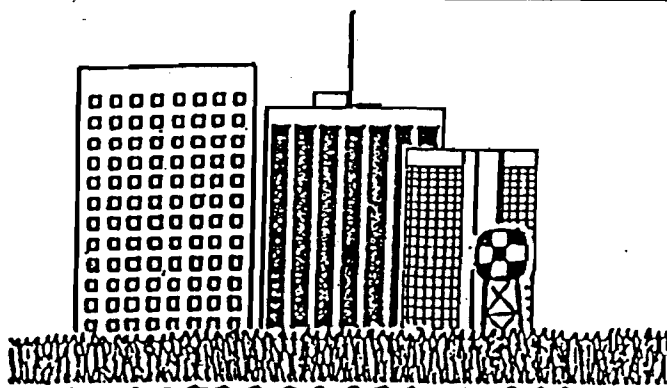
DEPTH : 222'

# SITE D: GOVERNMENT CUT SITE



# SITE F: R.J. DIVING VENTURES SITE





VESSEL: "BISCAYNE" FREIGHTER 120' IN LENGTH  
SUNK APPROX: 12/74

RELIEF: 15'

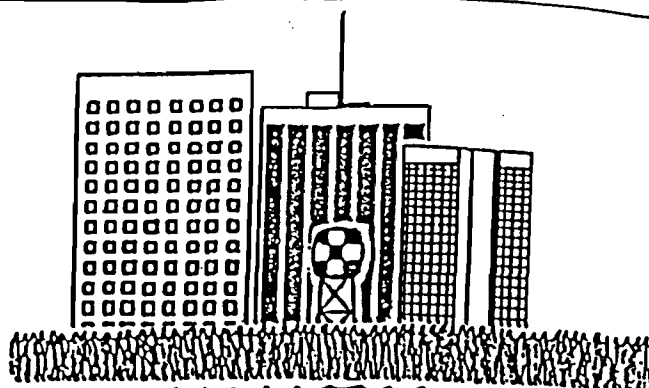
DEPTH 55'

LORAN-C:

14218.5  
62145.0

COMPASS HEADINGS TO:

CAPE FL. LIGHT 237°  
FOWEY LIGHT 183°



VESSEL:

RELIEF: 12' MIX

1) 65' WOOD "SARAH JANE"

SUNK: 9/81

2) 100' STEEL BARGE

SUNK: 9/81

3) 60' WOOD DRIFT BOAT

SUNK: 2/82

4) 40' STEEL HOUSE BOAT

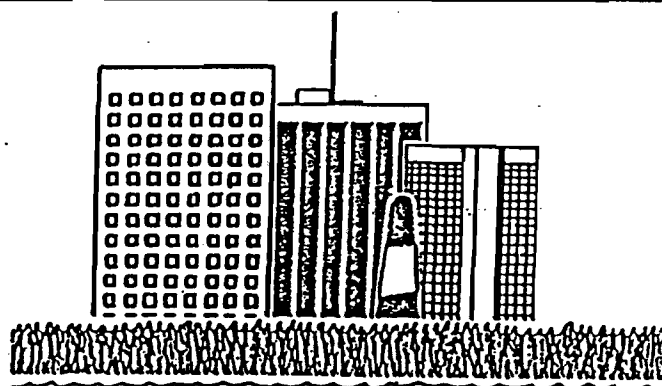
SUNK: 5/82

LORAN-C:

14218.6  
62144.4

COMPASS HEADINGS TO:

CAPE FL. LIGHT 237°  
FOWEY LIGHT 184°



VESSEL: "ORION" 118' STEEL TUG

SUNK: 12/81

RELIEF: 30'

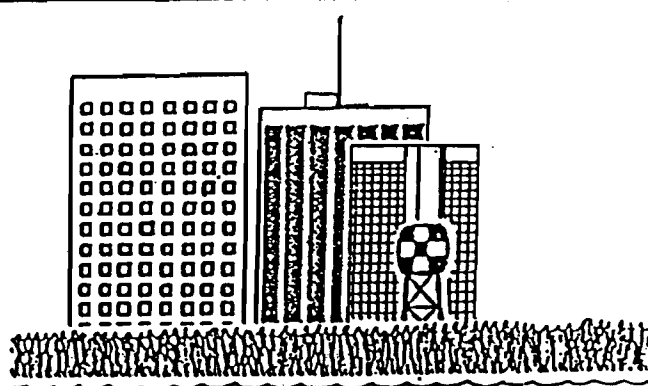
DEPTH 95'

LORAN C:

14217.4  
62145.0

COMPASS HEADINGS TO:

CAPE FL. LIGHT 248°  
FOWEY LIGHT 185°



VESSEL: "LAKELAND"

200' STEEL FREIGHTER

SUNK: 1/82

RELIEF: 30'

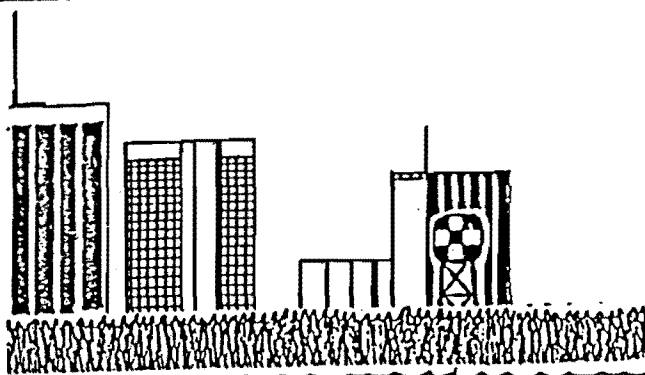
126'  
DEPTH  
140'

LORAN C:

14218.6  
62145.8

COMPASS HEADINGS TO:

CAPE FL. LIGHT 241°  
FOWEY LIGHT 186°



MATERIAL: 20 STEEL CONCRETE  
MIXER DRUMS

50 CHEVRON GAS  
STORAGE TANKS

75'  
0.0000  
0.0000  
0.0000  
DEPTH  
92'

SUNK: 7/82, 11/82, 1/83

LORAN-C:

14218.4

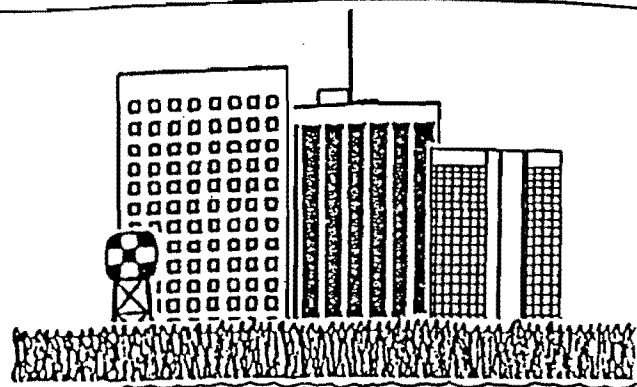
62144.6

RELIEF: 8'

COMPASS HEADINGS TO:

CAPE FL. LIGHT 241°

FOWEY LIGHT 184°



VESSEL: "STAR TREK"

200' STEEL FREIGHTER



DEPTH 210'

SUNK: 7/82

RELIEF: 32'

LORAN-C:

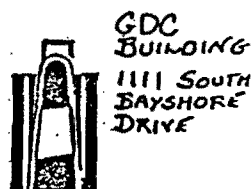
14219.0

62142.2

COMPASS HEADINGS TO:

CAPE FL. LIGHT 244°

FOWEY LIGHT 188°



GDC  
BUILDING  
1111 SOUTH  
BAYSHORE  
DRIVE

VESSEL: "ARIDA" 165' STEEL FREIGHTER

DEPTH 88'

SUNK: 8/82

RELIEF: 25'

LORAN-C:

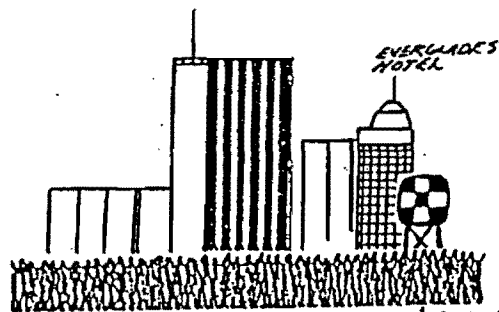
14219.7

62143.7

COMPASS HEADINGS TO:

CAPE FL. LIGHT 233°

FOWEY LIGHT 184°



EVERGLADES  
HOTEL

VESSEL: "SOUTH SEAS"  
175' STEEL YACHT

DEPTH 75'

SUNK: 2/83

RELIEF: 15'

LORAN-C:

14218.2

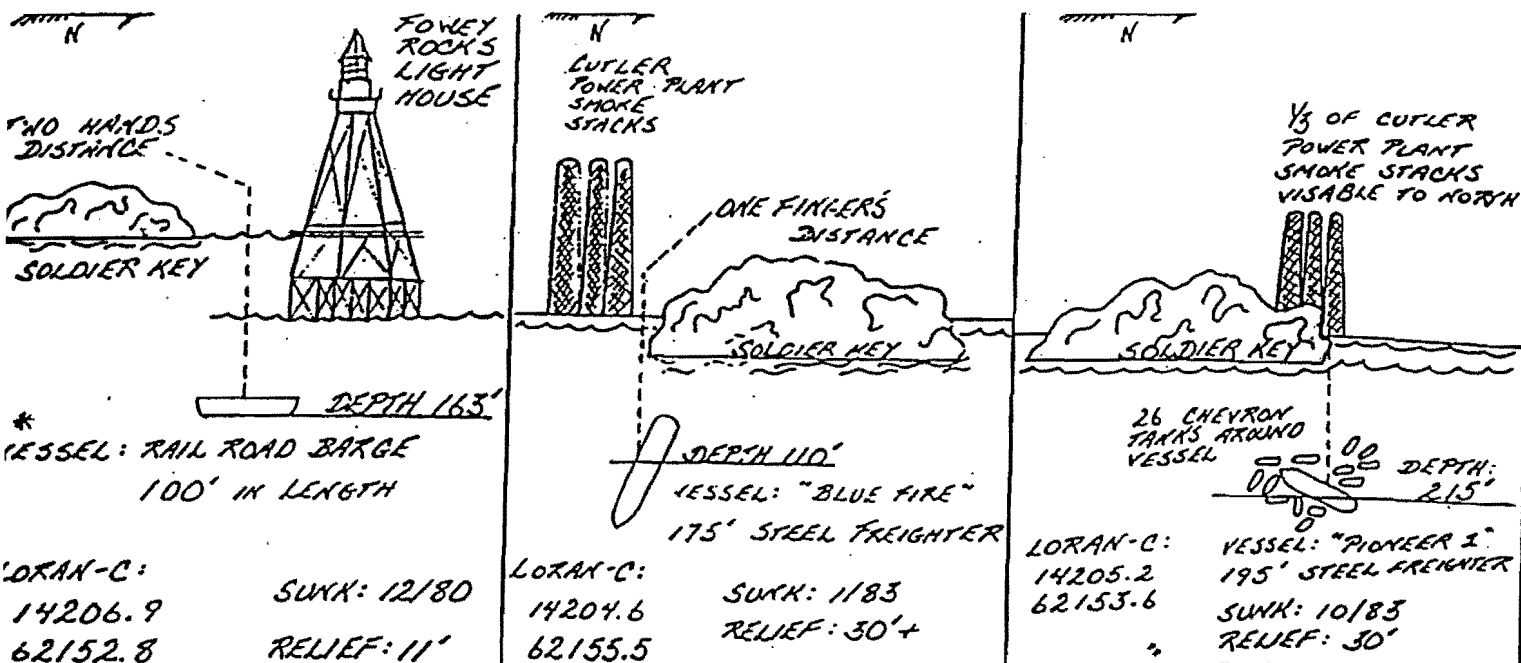
62144.7

COMPASS HEADINGS TO:

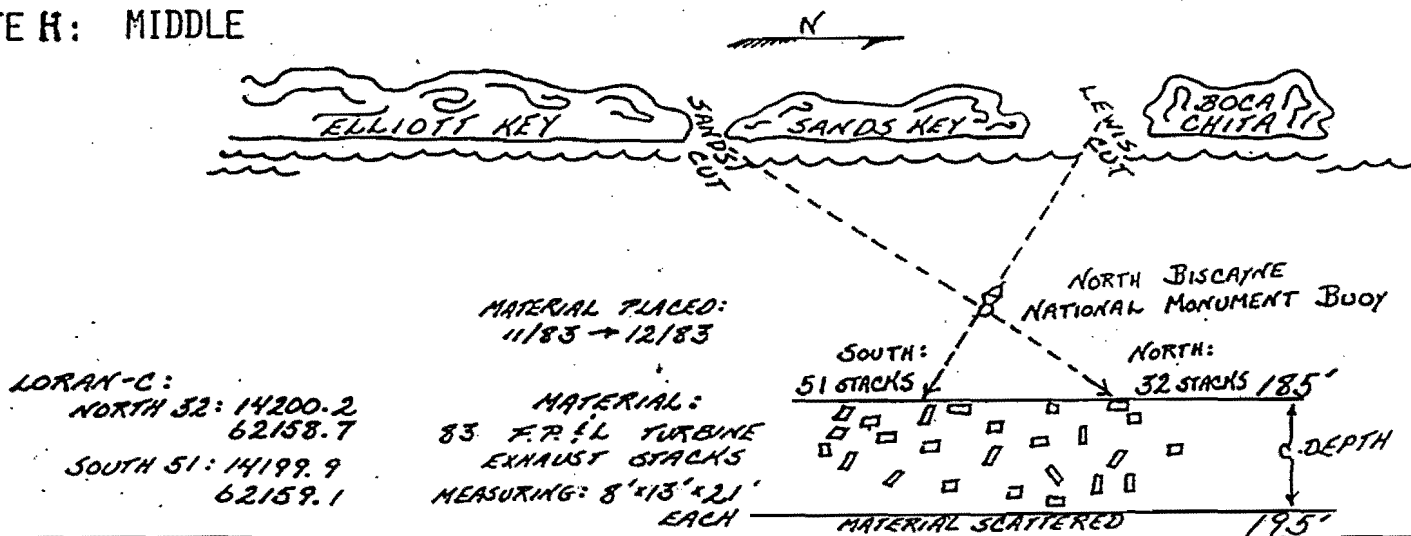
CAPE FL. LIGHT 242°

FOWEY LIGHT 184°

## SITE G: NORTH



## SITE H: MIDDLE



## SITE I: SOUTH

Due to the location of this site, there are no prominent "Line-ups" or permanent landmarks with which to repeatedly locate materials. Loran-C and Latitude/Longitude numbers are provided for material location.

- 1)\* Vessel: "Belcher Barge" 85' in length, sunk approx. 10/75, Relief 10'  
Depth: 117'-122', .6 N.M. @ 181 D's from Nat. Park Buoy "S" (1)  
Loran-C: 14187.0, 30728.1, 43154.4, 62174.4 L/L: 25:23.95N, 80:06.48W
- 2)\* Vessel: "Almirante" 200'+ in length, sunk 4/75, Relief 18'-28'  
Depth: 122'-132', .7 N.M. @ 169 D's from Nat. Park Buoy "S" (1)  
Loran-C: 14187.5, 30729.5, 43153.9, 62173.8 L/L: 25:24.27N, 80:06.43W
- 3)\* Vessel: "Santa Rita" 200'+ in length, sunk approx. 11/76, Relief 25'-30'  
Depth: 240'-247', .7N.M. @ 93 D's from Nat. Park Buoy "S" (1)  
Loran-C: 14188.9, 30732.1, 43151.4, 62170.7 L/L: 25:24.60N, 80:05.84W

Notes: \* Information provided by Don Doan of the Dade Sportfishing Council.

## ADDITIONAL VISUAL RANGES FOR ARTIFICIAL REEFS

### TENNECO OIL PLATFORMS

Hallandale Beach water tank in line with Pembroke Pines "Basket Tower" Antenna (northernmost antenna in a series of four).

### HAULOVER ARTIFICIAL REEF SITE

"ROSSMERRY" and "NARWHAL"

Center of Diplomat Mall Office Building (black square building with square Air conditioning tower on top, south of Turnberry Condominium Building) in line with Pembroke Pines Basket Tower Antenna.

"ANDRO"

First Union Bank Building (former Southeast Bank building) with Deauville Hotel on Miami Beach (67th and Collins Avenue).

### ANCHORAGE AREA REEF SITE

"SHAMROCK"

North Palm Bay Building just behind Eden Roc Hotel

"JOHN C. KOPPIN MEMORIAL REEF"

Place large white building just north of the Eden Roc Hotel between the two Palm Bay Buildings.

### KEY BISCAYNE REEF SITE

"BELCHER BARGE"

Virginia Key Smoke Stack on South corner of First Union Bank Building (formerly Southeast Bank)

"MYSTIC ISLE"

Virginia Key Water Tank on Southeast corner of the Nationsbank Building (Formerly Centrust Building).

RJ DIVING VENTURES REEF SITE

"STEANE D'AURAY"

One finger width (at arms length) between Cape Florida Lighthouse and Biltmore Hotel.

FISH AND GAME UNLIMITED REEF SITE

"DOC DE MILLY"

Pacific Reef Light in line with Turkey Point Stacks

## ***Biscayne Bay Artificial Reef Sites***

***In addition to the thirteen permitted artificial reef sites located offshore of its coast, Miami-Dade County is unique in having an extensive network of inshore reef sites within Biscayne Bay. During the early development of Miami from 1900 to the late 1960's much of north Biscayne Bay was impacted by dredging of the bay bottom to obtain fill for upland development. As a result, many areas of the bay have extensive "dredge holes" or deep areas in the bay bottom where the fill was removed. These areas tend to accumulate fine sediments which are easily resuspended, creating turbid water conditions, and are typically too deep to allow for productive marine communities to develop. The Biscayne Bay reef sites were established to meet a number of environmental objectives:***

- To place solid materials such as clean concrete, limestone, and other materials to provide a solid surface to which organisms can attach and grow, and to stabilize the fine sediments thereby improving water quality.***
- To fill the dredge holes with solid materials to restore pre-dredging depths, thereby allowing sufficient light penetration to support productive biological communities.***
- To, where possible, construct the reefs to complement other improvements in parks and other areas accessible by the public, thereby providing for enhanced access and recreation along Biscayne Bay.***

***There are currently ten artificial reef sites within Biscayne Bay(refer to attached site maps):***

***1) Dumfoundling Bay- located just south of the William Lehman Causeway and west of the Intracoastal Waterway, this is one of the deepest dredge holes with maximum depths in excess of 50'. This site has been used to deploy large reef materials not suitable for shallower areas of Biscayne Bay. Materials deployed to date include over 10,000 tons of limestone boulders, 4,500 tons of clean concrete materials, 45 large steel tanks, and 7 small steel boats and barges.***

***2) Oleta River State Park- this site was constructed in conjunction with a public fishing pier. Deployments to date include approximately 4,000 tons of limestone boulders, and 100 concrete parking bumpers.***

***3) San Souci- this site was established as part of a Seaport-funded mitigation program. This is a small site which includes over 3,100 tons of limestone boulders.***

**4) East Greynolds Park-** Located immediately adjacent to the canoe launch/ fishing pier at East Greynolds Park. This is a small reef site containing various clean concrete and limestone materials.

**5) North Bayshore Park-** Located at the southwest base of the Broad Causeway within North Bayshore Park. This site is constructed immediately off of an elevated boardwalk/ fishing pier, and contains concrete culvert pipe and limestone boulders.

**6) Pelican Harbor-** Located on the southeast side of Pelican Harbour Park, this site is constructed immediately off a fishing pier next to the public boat ramp. This site contains miscellaneous concrete materials and limestone boulders.

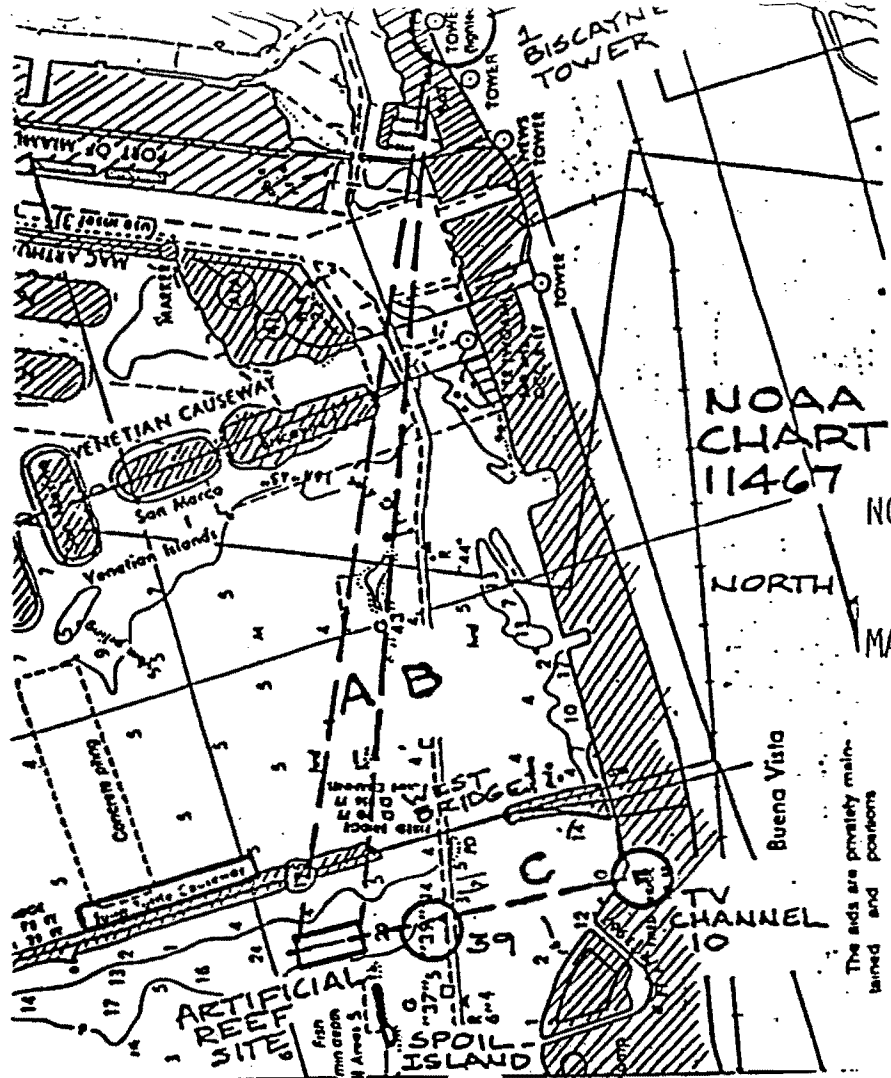
**7) Julia Tuttle-** located on the north side of the Julia Tuttle Causeway, east of the Intracoastal Waterway, this is the oldest and largest of the inshore reef sites. With depths of 35', it has been used for many large materials not suited for shallower bay reef sites. Materials deployed to date include in excess of 900,000 tons of clean concrete materials including demolished bridge girders from the MacArthur and Venetian Causeways, 10,000 tons of limestone boulders, a number of steel tanks, and over 20 vessels to over 40'.

**8) Brickell Avenue-** this site is located immediately north of the westernmost section of the Rickenbacker Causeway. The site contains 3,500 tons of limestone boulders placed as part of a Seaport-funded mitigation program, and 300 tons of concrete dock sections.

**9) Rickenbacker Causeway-** constructed between the old Drawbridge and the William Powell Bridge on the Rickenbacker Causeway. Includes 2,500 tons of limestone boulders, and clean concrete materials.

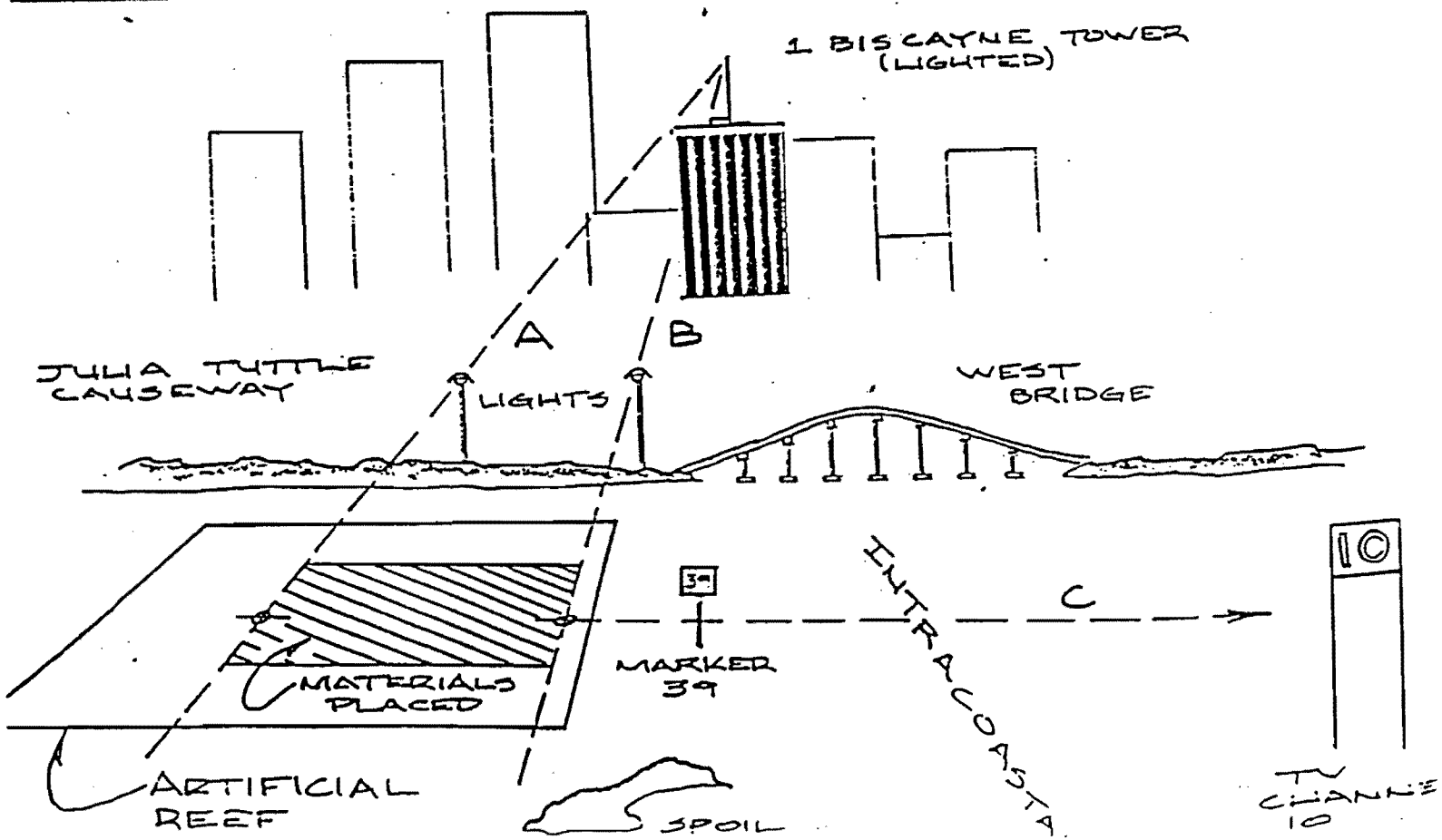
**10) Mercy Hospital-** one of the most developed shallow water sites. located immediately east of the Mercy Hospital dock in 10'-12' of water. Includes over 5,000 tons of clean concrete bridge sections and pilings, miscellaneous small vessels, and other materials.

# SITE : JULIA TUTTLE SITE

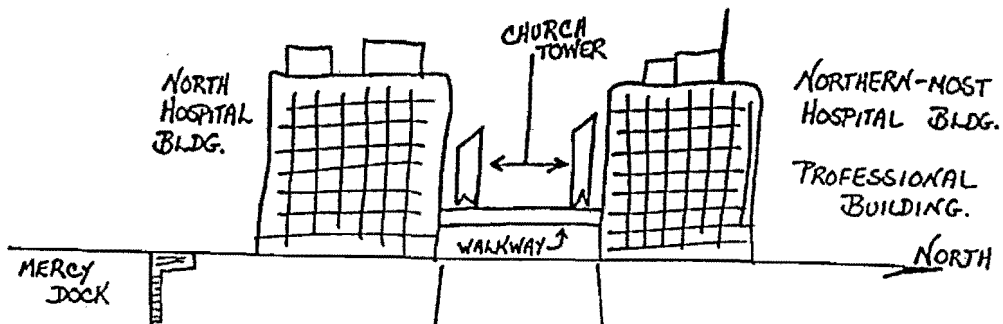


NOTE: MATERIALS PLACED WITHIN BORROW AREA DREDGED FOR CAUSEWAY FILL. DEPTH: 24'-30'

MATERIALS INCLUDE:  
 550 CONCRETE CULVERT PIPE  
 33 STEEL STORAGE TANKS (6'+18'  
 CONCRETE PILING/BRIDGE SECTIC



# SITE 1: MERCY HOSPITAL



THANK YOU!:

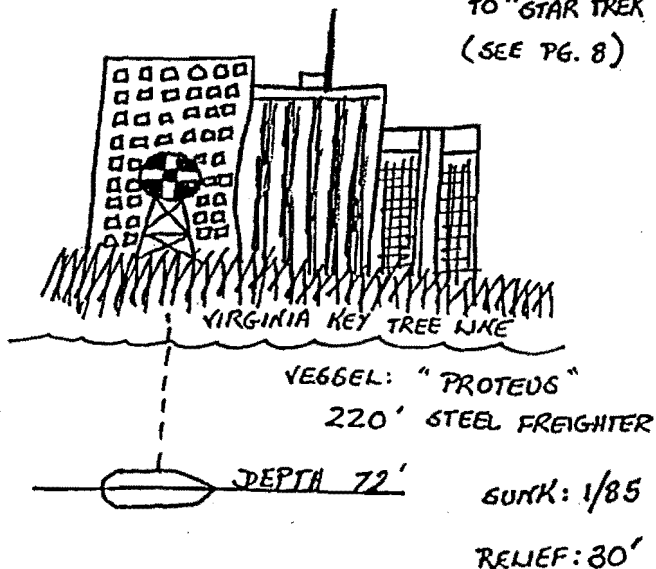
ATLANTIC FOUNDATION  
D.C. PUBLIC WORKS DEPT.

DREDGE  
HOLE  
10' MLW

4' MAXIMUM MATERIAL RELIEF  
40 BEAR CUT BRIDGE  
BARRICADE SECTIONS: PLACED - 1-2  
5000 CONCRETE BICYCLE  
RACKS - CLUSTERED 240 PER AC  
PLACED: 10/84  
50' TO 80' FROM EDGE  
NATURAL BOTTOM 3' TO 5' DEPTH

## SITE E: KEY BISCAYNE

NOTE: LINE-UP  
ALMOST  
IDENTICAL  
TO "STAR TREK"  
(SEE PG. 8)

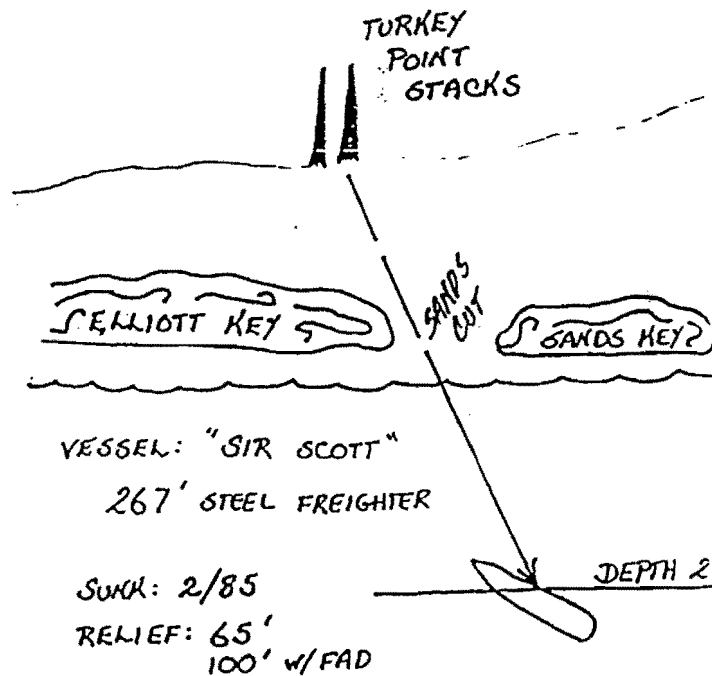


LORAN-C:

14218.7  
62144.3

THANK YOU!  
N.A.U.I.

## SITE H: MIDDLE: DADE SPORTFISHING COUNCIL



VESSEL: "SIR SCOTT"  
267' STEEL FREIGHTER

SUNK: 2/85  
RELIEF: 65'  
100' W/FAD

LORAN-C: 14201.2  
62167.5

THANK YOU!  
FISH & GAME W/AT  
NORTH RIVER TERM  
EAGLE TIRE COMPA.

# Rules and Regs

Florida's recreational saltwater fishing regulations can and do protect the fishery resource. You can follow them, and, at the same time, experience the thrill of reeling in a thrashing fish.

The Marine Fisheries Commission creates fishing regulations, with final approval of the governor and cabinet. These regulations include gear specifications, size limits, bag limits, protected species, and fishing seasons.

The information shown below and in the "Know Your Limits" chart is a brief summary of the regulations governing the taking of saltwater species for personal use. It is not intended or designed to provide specific information on commercial harvesting of these species. The failure to include complete laws, rules and regulations in this summary does not relieve persons from abiding by those laws, rules or regulations.

Unless specified otherwise, all fish measurements are from the tip of the nose to rear center edge of the tail. Since local regulations governing the taking of saltwater species may exist you should contact the Florida Marine Patrol District Office nearest the location where you will be engaging in these activities.

## Information on saltwater fishing regulations

**Bay Scallops** — Unlawful to use mechanical harvesting gear in waters less than three feet deep. No commercial or mechanical harvesting in a designated area in the southern portion of St. Joseph Bay from July 1 through Aug. 15 of each year and on each weekend during the period of Aug. 16 of each year through the Labor Day weekend (including Labor Day).

**Blue Crabs** — Illegal to use more than five traps for the taking of blue crabs without a permit from the Department of Environmental Protection (DEP). Traps may be worked during daylight hours only.

**Coral** — Unlawful to take, possess or destroy sea fans, hard corals or fire corals unless it can be shown by certified invoice that it was imported from a foreign country.

**Crawfish** — Crawfish must remain in a whole condition at all times while being transported on or below the waters of the state. No egg-bearing females may be taken. Use of grains, spears, grabs, hooks or similar devices prohibited. The molesting, taking or trapping of spiny lobster within the Biscayne Bay Card Sound Crawfish Sanctuary within Dade and Monroe Counties is prohibited. Divers are required to have a carapace measuring device in possession and to perform each measurement in the water.

**Sport Fishermen's Season (Crawfish)** — The last consecutive Wednesday/Thursday in July each year; harvest methods limited to diving and use of bully and hoop nets; bag limits—6 harvested from state waters each day and on-shore possession limit of 12 on second day in Monroe County only; 12 harvested from state waters each day and on-shore possession limit of 24 on second day in all other areas of Florida.

**Hard Clams** — Unlawful to take, possess or transport clams on the water from one-half (1/2) hour after official sunset to one-half (1/2) hour before official sunrise. Unlawful to use any rake, dredge or other mechanical devices to harvest hard clams in any grass bed. Rakes or tongs used to take clams must have at least 7/8 of an inch space between teeth and 7/8 of an inch space between bars or dividers of any basket attached. Special permit is required to use powered rakes, dredges and other mechanical devices. All vessels used in connection with harvesting hard clams shall be equipped with shade to shield clams from the sun at all times and be equipped with one or more cullboards or cull racks having no less than one-inch clear space

between the bars or other dividers. May only be taken from approved shellfish harvesting areas.

**Marine Mammals (Manatees, or Sea Cows, Porpoises and Whales)** — Manatees, or sea cows, and whales are endangered species. All marine mammals or parts thereof are protected by both state and federal law. Unlawful to take, kill, injure, annoy or molest a marine mammal. Report any harassment, distress, injury or death of a marine mammal to the nearest Florida Marine Patrol office or call 1-800-DIAL-FMP.

**Marine Turtles, Nests and Eggs** — Unlawful to take, kill, molest, disturb, harass, mutilate, destroy, cause to be destroyed, sell, offer for sale or transfer any marine turtle, marine turtle nest or marine turtle egg. Marine turtles accidentally caught must be returned to the water alive immediately.

**Oysters** — May only be taken from approved shellfish harvesting area. Harvest between sunset and sunrise prohibited. Unlawful to use dredge, drag, etc.

**Queen Conch** — Unlawful to take or harvest any queen conch from the land or waters or to possess or transport any queen conch so taken or harvested.

**Redfish, Black Drum, Pompano, Seatrout** — Unlawful to take with live or dead natural bait in conjunction with any multiple hook. Snatching prohibited.

**Shrimp** — No person shall harvest more than five gallons of shrimp, heads on, per day, with a maximum of 1 five-gallon bucket per vessel per day. A net registration is required to engage in trawling for shrimp with nets 16 feet or less. Larger nets or the taking of more than the recreational bag limit requires a Saltwater Products License.

**Snook** — Unlawful to take by any means other than hook-and-line. Unlawful to take with live or dead natural bait in conjunction with a treble hook. Snatching prohibited.

**Stone Crab Claws** — No trapping except under permit from DEP. Use of spears, grains, grabs, hooks or similar devices which can puncture, crush or injure the crab body is prohibited. Legal claw or claws may be taken but live crab must be released. Unlawful to remove claws from egg-bearing females.

**Diver Down Flag** — Required to be displayed while diving or snorkeling. Indicates to boat operators that divers are in the area. Use extreme caution.

**Explosives** — The use of explosives or the discharge of firearms into the water to kill food fish is prohibited. The landing ashore or possession on the

water by any person of any food fish that has been damaged by explosives or the landing of headless jewfish or grouper, if the grouper is taken for commercial use, is prohibited.

**Spearfishing** — Unlawful to spearfish as follows: (1) Within 100 yards of all public bathing beaches, commercial or public fishing piers, and that portion of any bridge where public fishing is permitted. (2) Within 100 feet of that portion of any jetty that is above the sea surface, except along the last 500 yard of the exposed portion of any jetty extending more than 1,500 yards from the shoreline. (3) For the taking of all species of ornamental reef fish; i.e., surgeonfish, trumpet fish, angelfish, butterfly fish, porcupine fish, cornet fish, squirrel fish, trunk fish, dorsal fish, parrot fish, pipe fish, seahorses and puffers. (4) In Collier County and that part of Monroe County from Long Key north to the Dade County line. (5) In or on any body of water under the jurisdiction of the Division of Recreation and Parks of DEP. (The possession of spearfishing equipment is prohibited in these areas.) (6) For the taking of any species where by the taking by spear is prohibited.

**Nets** — Use restrictions apply. Contact the nearest Florida Marine Patrol office for details. The taking of more than 100 pounds per person per day of species having no bag limit requires a Saltwater Products License. Special size limits apply to recreational seine nets.

**State Boundaries** — Florida's state waters consist of all waters within nine nautical miles of the shoreline in the Gulf of Mexico and three nautical miles of the shoreline in the Atlantic Ocean. For fisheries purposes, the federal waters are those waters 200 miles seaward of state waters.

**Traps** — The use of fish traps is prohibited in state waters except as provided in Section 370.110, F.S. Unlawful to possess or willfully molest any trap licensed by the DEP belonging to another.

**Florida Litter Law** — Prohibits the dumping of litter in any amount on public or private lands and waters. Penalties for violation are based on quantity of litter, but are never less than a \$50 fine.

**Monofilament Line** — Unlawful to intentionally discard any monofilament netting or line into or onto the waters of the state of Florida.

**Hook and Line Gear** — Must be tended (persons must be present at the terminus of the gear).



This information is time-dated.  
It is your responsibility to obtain the latest  
information from your nearest  
Florida Marine Patrol District Office.

## Basic recreational saltwater fishing regulations... "Know Your Limits"

| SPECIES                                      | SIZE LIMIT                                          | CLOSED SEASON                                                                                 | DAILY REC. BAG LIMIT                                       | REMARKS                                                                                      |
|----------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------------------------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| Amberjack A R                                | 28" fork                                            | ---                                                                                           | 3                                                          |                                                                                              |
| Black Drum A ● R                             | Not less than 14"<br>or more than 24"               | ---                                                                                           | 5                                                          | Cannot possess more than one over 24".                                                       |
| Sea Bass ●                                   | 8"                                                  | ---                                                                                           | ---                                                        | All Sea Basses.                                                                              |
| Balfish X                                    | Saltfish 57"<br>Blue Marlin 60"<br>White Marlin 62" | ---                                                                                           | 1                                                          | Species includes marlin, spearfish and saltfish. Cannot buy or sell.                         |
| Bluefish H A R                               | 12"                                                 | ---                                                                                           | 10                                                         |                                                                                              |
| Bonefish ●                                   | 18"                                                 | ---                                                                                           | 1                                                          | Cannot buy or sell. Only one in possession.                                                  |
| Hard Clams R                                 | 1" thick                                            | ---                                                                                           | ---                                                        | Requirement for boats and harvest gear.                                                      |
| Cobia (Unq) A                                | 33" fork                                            | ---                                                                                           | 2                                                          |                                                                                              |
| Stone Crab                                   | 2 1/4" claw                                         | Between May 15<br>and Oct. 15                                                                 | ---                                                        | Trapping under permit only. Cannot possess whole crab.                                       |
| Crowfish (Spiny lobster) A                   | More than<br>3" carapace                            | April 1-August 5                                                                              | 24 per boat or 6 per<br>person, whichever is greater       | Trapping under license only.<br>Crowfish stamp is required.                                  |
| Dolphin                                      | ---                                                 | ---                                                                                           | 10                                                         | 20" size limit for sale.                                                                     |
| Red Drum (Redfish) A ●                       | Not less than 16"<br>or more than 27"               | March, April, May                                                                             | 1                                                          | Gigging, speeking, snatching prohibited.<br>Cannot buy or sell native redfish.               |
| Flounder                                     | 11"                                                 | ---                                                                                           | ---                                                        |                                                                                              |
| Grouper A ● R                                | 20"                                                 | ---                                                                                           | 5<br>Aggregate of all species                              | Includes Yellowfin, Red, Black, Gag,<br>Yellowmouth, Scamp. Harvest of Nassau prohibited.    |
| Shark                                        | ---                                                 | ---                                                                                           | 1 per person or 2 per vessel,<br>whichever is less         | Also see protected species<br>Practice of finning prohibited.                                |
| King Mackerel R                              | 12"                                                 | ---                                                                                           | 2                                                          | Bag limit in Gulf-Atlantic fishery reduced to<br>1 when federal waters close to oil harvest. |
| Spanish Mackerel A R                         | 12"                                                 | ---                                                                                           | 10                                                         |                                                                                              |
| Black Mullet ● R                             | ---                                                 | ---                                                                                           | 50 per vessel or person,<br>whichever is less              | Special rules apply in Pinellas County.                                                      |
| Oysters R                                    | 3"                                                  | June, July, August in Osceola and<br>Levy counties. July,<br>August, Sept. in all other areas | 2 bags per person or<br>boat, whichever is<br>less per day | Apalachicola Bay has summer & winter areas<br>Check with Marine Patrol for legal locations.  |
| Permit                                       | ---                                                 | ---                                                                                           | No more than 2 - 20" or larger.                            |                                                                                              |
| Pompano A                                    | 10"                                                 | ---                                                                                           | ---                                                        | Prohibits sale greater than 20".                                                             |
| Scallops                                     | ---                                                 | April 1-June 30                                                                               | 5 gallons whole or<br>1/2 gallon meat.                     | Special regulations St. Joe Bay. Gear limitations apply.                                     |
| Shad                                         | ---                                                 | ---                                                                                           | 10                                                         | Hook and line only.                                                                          |
| Red Snapper A ● R                            | 13" on Gulf Coast<br>20" on Atlantic Coast          | ---                                                                                           | 2                                                          | Bag Limit.<br>No more than 10 snappers aggregate<br>of all snappers with a bag limit.        |
| Schoolmaster A ● R                           | 10"                                                 | ---                                                                                           | 10                                                         |                                                                                              |
| Gray (Mangrove) A ● R                        | 10"                                                 | ---                                                                                           | 5                                                          |                                                                                              |
| Lane A ● R                                   | 8"                                                  | ---                                                                                           | ---                                                        |                                                                                              |
| Vermilion A ● R                              | 8" on Gulf Coast<br>10" on Atlantic Coast           | ---                                                                                           | ---                                                        |                                                                                              |
| All Other Snapper A ● R                      | 12"                                                 | ---                                                                                           | 10 aggregate of all<br>snapper having a bag limit          | Includes Blackfin, Cubera, Dog, Mahogany,<br>Mutton, Queen, Silk and Yellowtail.             |
| Snook A ●                                    | Not less than 24"<br>or more than 34"               | Jan., Feb., June,<br>July and August                                                          | 2                                                          | Cannot possess more than one over 34".<br>Cannot buy or sell. Snook stamp required.          |
| Porpon                                       | ---                                                 | ---                                                                                           | 2                                                          | Cannot buy or sell - requires \$50 porpon tag to<br>possess or kill.                         |
| Spotted Seatrout A ● R<br>(Spotted Weakfish) | Not less than 14"<br>or more than 24"               | ---                                                                                           | 10                                                         | Cannot possess more than one over 24".                                                       |

A. Must remain in whole condition until landed ashore. ● Total length - tip of snout to tip of tail. X Federal size limits apply. H New or additional information provided.  
● Mullet is not a restricted species west of the Ochlockonee River. R Restricted Species H Harvest from approved shellfish harvest areas only.

### ORNAMENTAL TROPICAL FISH/PLANTS R

|                                      |                                                                                                                                                      |                                         |                                     |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-------------------------------------|
| MINIMUM SIZE LIMIT<br>(Total Length) | Gray Angel 1 1/2"<br>French Angel 1 1/2"                                                                                                             | Blue Angel 1 1/2"<br>Queen Angel 1 1/2" | Rock Beauty 2"<br>Butterfly Fish 1" |
| MAXIMUM SIZE LIMIT<br>(Total Length) | Angelfish (except rock beauty) 10"<br>Rock Beauty 6"                                                                                                 | Butterflyfishes, Jawfishes 4"           | Gobies 2"                           |
| BAG LIMIT                            | Fishes / Invertebrates: 20 per person per day. No more than 5 angelfish and no more than 6 gorgonian colonies<br>Plants: 1 gallon per person per day |                                         |                                     |

Live landing and live well requirements Harvest in Biscayne National Park prohibited. Unlawful to harvest or possess Longspine Urchin and Bahama Starfish. Harvest of live rock in state waters is prohibited.

### PROTECTED SPECIES

It is unlawful to harvest, possess, land, purchase, sell or exchange the following species: Jewfish, Sawfishes, Sawsharks, Hammerheads, White Sharks, Spotted Eagle Ray, Stingrays.

