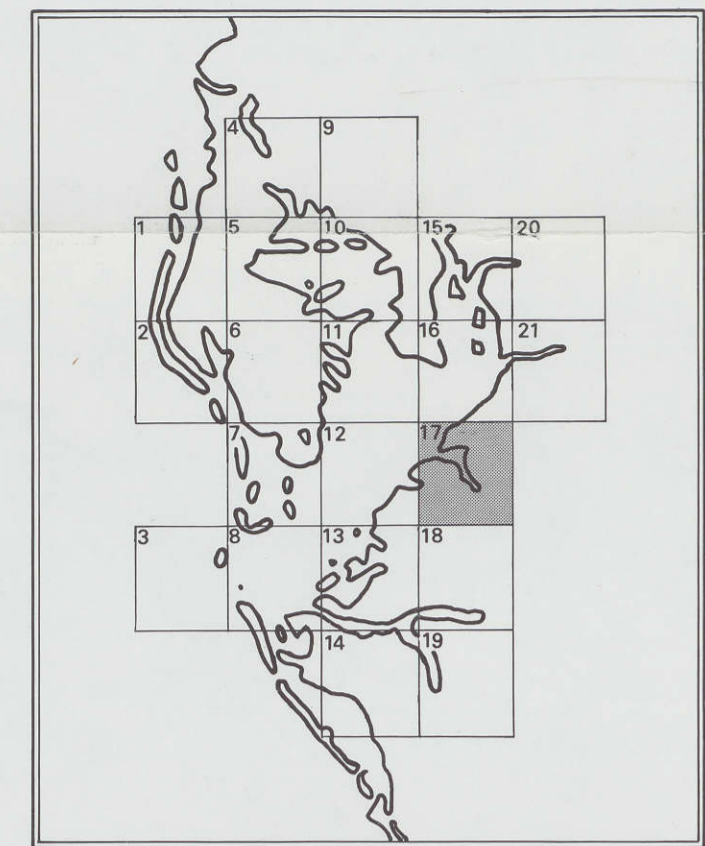


TAMPA BAY
ENVIRONMENTAL ATLAS
BIOLOGICAL RESOURCES
RUSKIN

metadc1393351



Scale 1:24,000



1984



TOPICAL MAPS IN THIS ATLAS:
A. BIOLOGICAL RESOURCES
B. WATER RESOURCES

Produced by U.S. Fish and Wildlife Service
Projection and 1,000 meter grid, zone 17, Universal
Transverse Mercator
10,000-foot grid ticks based on Florida coordinate
system, east and west zones

Overlay material compiled in 1984 from
latest available data obtained from
Federal, State and Local government
agencies and other sources.

There are no maps A19, A20, A21 due to a lack of data.

LEGEND

SHELLFISH HARVEST AREA
(Florida Dept. of Natural Resources)

SHA Shellfish Harvest Approved

SHCA Shellfish Harvest Conditionally Approved

NOTE: Due to Dept. of Natural Resources (DNR) water quality standards all other estuarine areas are prohibited or unclassified as to shellfish harvest status and are officially unapproved. For further info on status of harvest areas contact DNR - Shellfish Environmental Assessment Section.

Oys-1 Public Oyster Bed

Oys-2 Private Oyster Bed (Lease)

CLAMS Clam Bed

FINFISH SPAWNING, NURSERY AND HARVEST AREAS
(Recreational Hook and Line Fishing)

SPECIES	CATEGORY	SPAWNING LOCATION	SEASON	MAJOR NURSERY HABITATS				MAJOR ADULT HABITATS			
				Seagrass	Shallow Water	Open Water	Artificial Reef	Seagrass	Shallow Water	Open Water	Artificial Reef
ESTUARINE DEPENDENT FISHES											
1	Red Drum	C	W	●	●	●	●	●	●	●	●
2	Spotted Seatrout	E	W	●	●	●	●	●	●	●	●
3	Snook	C	W	●	●	●	●	●	●	●	●
4	Sheepshead	C	W	●	●	●	●	●	●	●	●
5	Southern Flounder	C	W	●	●	●	●	●	●	●	●
6	Florida Pompano	CS	W	●	●	●	●	●	●	●	●
7	Striped Mullet	CS	W	●	●	●	●	●	●	●	●
8	Gulf Menhaden	C	W	●	●	●	●	●	●	●	●
9	Spanish Sardine	C	W	●	●	●	●	●	●	●	●
10	Black Drum	C	W	●	●	●	●	●	●	●	●
REEF FISHES											
11	Red Grouper	CS	W	●	●	●	●	●	●	●	●
12	Jawfish	CS	W	●	●	●	●	●	●	●	●
13	Gulf Grouper	CS	W	●	●	●	●	●	●	●	●
14	Scamp	CS	W	●	●	●	●	●	●	●	●
15	Red Snapper	CS	W	●	●	●	●	●	●	●	●
16	Mangrove Snapper	CS	W	●	●	●	●	●	●	●	●
COASTAL PELAGIC FISHES											
17	King Mackerel	OCS	W	●	●	●	●	●	●	●	●
18	Spanish Mackerel	CS	W	●	●	●	●	●	●	●	●

KEY:
E - Estuarine
C - Coastal
CS - Continental Shelf
OCS - Outer Continental Shelf

MIGRATION TYPE:
1 - Residentially Restricted
2 - Random Residential Range
3 - Restricted Migration
4 - Extensive Migration

COLONIAL BIRD NESTING SITE*
Number appearing with symbol indicates colony sites. Colony sites and species composition data are included in the narrative.

- Shorebird
- Wading Bird
- Brown Pelican
- WEST INDIAN MANATEE HABITAT
- STATE MANATEE SANCTUARY
- SEAGRASS BEDS
- ARTIFICIAL REEF*
(Permitted by Florida Dept. of Environmental Regulation)
Numbers next to reefs refer to composition data in narrative.

*Symbols appearing with numbers are described more fully in the narrative.



SCALE 1:24,000



THE TAMPA BAY ENVIRONMENTAL ATLAS WAS PRODUCED BY THE U.S. FISH AND WILDLIFE SERVICE, DIVISION OF BIOLOGICAL SERVICES NATIONAL COASTAL ECOSYSTEMS TEAM (OYSTER BEDS) FOR COASTAL PLANNERS, DECISION MAKERS AND THE GENERAL PUBLIC TO DETERMINE AND EVALUATE CHANGE AND TO RESOLVE CONFLICTS AMONG LAND USES, FISH AND WILDLIFE REQUIREMENTS AND THE MAINTENANCE OF ECOLOGICAL DIVERSITY. THE STUDY AREA INCLUDES A MAJOR PORTION OF THE COASTAL COUNTIES OF PINELLAS, HILLSBOROUGH, MANATEE, AND A SMALL PORTION OF SARASOTA. THERE IS NO ATTEMPT IN THE DESIGN OR PRODUCTS OF THIS STUDY TO DEFINE THE LIMITS OF PROPRIETARY JURISDICTION OF ANY FEDERAL, STATE, OR LOCAL GOVERNMENT TO ESTABLISH THE GEOGRAPHICAL SCOPE OF THE REGULATORY PROGRAMS OF GOVERNMENT AGENCIES.

THIS MAP HAS BEEN COMPILED FROM A VARIETY OF SOURCE MATERIALS INCLUDING MAPS, AERIAL PHOTOS, AND REPORTS. SINCE MANY SOURCES CONTAIN GENERALIZED LOCATIONS OF RESOURCES AND OTHER MAPPED FEATURES, THE USER SHOULD NOT RELY ON THESE MAPS FOR PRECISE MEASUREMENTS OF DISTANCES OR AREAS.

PRIMARY SOURCES OF MAPPED INFORMATION:
SHELLFISH HARVEST AREAS: Shellfish Harvest Area Maps, Dept. of Natural Resources, 1982.
PUBLIC & PRIVATE OYSTER BEDS: Cooperative Gulf of Mexico Estuarine Inventory and Study, Florida, McNulty, Linder and Sikes, 1972.
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FINFISH SPAWNING, NURSERY & HARVEST AREAS: Florida's Fishing Grounds, Moa, 1970.

MANATEE HABITAT: Boaters guide to Manatees, the gentle giants, Florida Marine Patrol, 1980.
SEAGRASS BEDS: Tampa Bay Seagrass Maps, 1:10,000 and 1:24,000 Scales, Mangrove Systems, Inc., 1980. National Wetlands Inventory Maps, 1:24,000 Scale, U.S. Fish and Wildlife Service, 1983.
ARTIFICIAL REEFS: Computer Protocol of Florida Artificial Reefs, U.S. Army Corps of Engineers, 1981. Recreational Use Reefs in Florida Artificial and Natural, Florida Sea Grant Program, 1979.
FOR COMPLETE REFERENCE SEE MAP NARRATIVE

BIRD NESTING SITES: Florida Atlas of Breeding Sites for Birds and Their Allies, 1978. R. S. Sibley, S. A. Ogden, J. C. Kelle, H. W. et al., U.S. Fish and Wildlife Service, 1982. Personal Communication, Maps and Data, Dr. H. W. Kelle II, Florida Audubon Society, 1982.

