

Identification_Information:

Citation:

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Originator: NOAA Fisheries Service

Publication_Date: 20060223

Title:

Monitoring fisheries of East Mud Lake, Louisiana:
1997 and 2001.

Description:

Abstract:

Densities of nekton and extent of habitat coverage were estimated and compared for project and reference areas following construction of the East Mud Lake project to estimate the impact of construction on wetland habitats.

Purpose:

Identify and describe the relationship between fishery productivity and the coastal environment.

Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date: 19970303

Ending_Date: 20011102

Currentness_Reference: ground condition

Status:

Progress: complete

Maintenance_and_Update_Frequency: As needed

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -93.4915

East_Bounding_Coordinate: -93.3397

North_Bounding_Coordinate: 30.0589

South_Bounding_Coordinate: 29.8654

Keywords:

Theme:

Theme_Keyword_Thesaurus:

Theme_Keyword: distribution

Theme_Keyword: abundance

Theme_Keyword: estuarine dependent

Theme_Keyword: submerged aquatic vegetation

Theme_Keyword: throw traps

Theme_Keyword: brown shrimp

Theme_Keyword: white shrimp

Theme_Keyword: pink shrimp

Theme_Keyword: Farfantepenaeus aztecus

Theme_Keyword: Litopenaeus setiferus

Theme_Keyword: Farfantepenaeus duorarum

Theme_Keyword: macrofauna

Theme_Keyword: salt marsh

Theme_Keyword: fish

Theme_Keyword: nekton

Theme_Keyword: crabs

Theme_Keyword: invertebrates

Place:

Place_Keyword_Thesaurus:

Place_Keyword: Brown Lake

Place_Keyword: East Mud Lake

Place_Keyword: Louisiana

Place_Keyword: Gulf of Mexico

Access_Constraints:

Use_Constraints:

Data set is not for use in litigation. While efforts have been made to ensure that these data are accurate and reliable, NOAA cannot assume liability for any damages or misrepresentations caused by inaccuracies in these data, or as a result of these data being used on a particular system. NOAA makes no warranty, expressed or implied, nor does the fact of distribution constitute any such warranty.

Point_of_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization:

NOAA Fisheries Service, formerly National
Marine Fisheries Service, Fishery Ecology Branch.

Contact_Person: Dr. Jim Ditty

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Address_Type: mailing and physical

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City: Galveston

State_or_Province: Texas

Postal_Code: 77551-5997

Country: Unites States of America

Contact_Voice_Telephone: 409-766-3500

Data_Quality_Information:

Attribute_Accuracy:

Attribute_Accuracy_Report:

Data were entered into spreadsheets and checked against the raw data sheet to avoid entry errors.

Logical_Consistency_Report:

Completeness_Report:

Lineage:

Process_Step:

Process_Description:

Sampling Gear Description:

The 1 m² throw trap had 1-m high walls constructed of 1.6-mm nylon mesh netting. A floating collar kept the throw trap vertical in the water column after deployment. Steel bar bent into a square was attached to the bottom of the net to make it sink rapidly.

Process_Date: unknown

Process_Step:

Process_Description:

Measuring Environmental Variables:

Environmental data were collected immediately after gear deployment and before collection of animals. Water depth, temperature, D.O. and salinity data were collected and a water sample was returned to the lab for turbidity analysis.

Distance-to-marsh-edge was also estimated.

Process_Date: unknown

Process_Step:**Process_Description:****Sampling of Nekton and Associated Plants:**

The engine was turned off once the airboat approached the sampling site to minimize site disturbance prior to sampling. The boat was permitted to drift about 25 m before trap deployment to minimize disturbance. Immediately after trap deployment, field personnel checked to insure the bottom of the sampler was set into the sediment to prevent escape of animals. If submerged aquatic vegetation (SAV) was enclosed in the sampler, an estimate was made of how much of the bottom area was covered by SAV (0-100%).

Process_Date: unknown

Process_Step:**Process_Description:****Removal of Animals:**

After the throw trap was deployed, clearing nets were used to remove the nekton. Clearing nets were constructed of 1.6 mm nylon mesh netting attached to 1.3 x 1.3 m frames made from steel bar. The clearing net was placed against the ground and pushed through the surface layer and under the trap. Then both the net and trap were lifted out of the water. The contents of the clearing net were washed to remove mud and the net was visually and manually inspected for animals. Organisms were placed in a 1.0 mm mesh bag, labeled, preserved and returned to the laboratory for processing.

Process_Date: unknown

Process_Step:**Process_Description:****Care of Nekton Samples in the Field:**

Labeled, waterproof shipping tags were placed inside of each 1.0 mm mesh sample bag. Samples were stored in 3 or 5 gallon buckets containing 10 percent formalin. Ten percent formalin was made by mixing one part full-strength formaldehyde with nine parts water. If animals were too large to fit into the sample bag, the specimen was identified to the lowest taxon, measured, recorded, and released.

Process_Date: unknown

Process_Step:**Process_Description:****Initial Processing of Field Data and Samples:**

After returning from the field, samples were recorded in the laboratory log book, which served as a sample inventory and to verify sample arrival and condition. Turbidity samples were analyzed and the information transferred to the field data sheets. Data sheets were entered into

an electronic data base or a database manager
and the data compared and verified against field sheets.

Process_Date: unknown

Process_Step:

Process_Description:

SAMPLE SORTING:

Samples were strained through a sieve and a portion of the rinsed sample was then placed into a white porcelain sorting tray (40-cm x 24-cm x 6-cm) partially filled with water.

After the samples were sorted, the sample and specimen jars were filled with 2-3 percent formalin (i.e., mixture of 0.25-part of full-strength formalin and 9.75-parts water).

Process_Date: unknown

Process_Step:

Process_Description:

SPECIES IDENTIFICATION AND MEASUREMENT:

Organisms were measured to the nearest millimeter to determine total length (TL) for fish and penaeids. Total carapace width (CW) was measured for crabs. Fish were measured after being placed flat on their side with the mouth closed. TL in fish was the distance from the snout to the tip of the longest caudal fin ray.

TL in shrimp was measured from the tip of the rostrum to the tip of telson. If the rostrum was broken,

TL was not measured. Carapace width (CW) of crabs was measured across the widest part of the carapace (from tip to tip of the lateral spines if present). If lateral spines were broken, CW was not measured. Hermit crabs were not measured.

Individuals of each species in a sample were pooled and weighed to the nearest 0.1 g (wet weight).

Process_Date: unknown

Process_Step:

Process_Description:

Organism Data Entry and Validation:

Laboratory and field data were entered into the computer using a spreadsheet or database manager. A text file was created that described these data and any abbreviated variables. The data were printed out and checked against ID sheets to ensure all information was correct. Data corrections were made at this time. Hard copies of the file were given to the PI and stored in the project folder along with the original field and laboratory data sheets. A code was assigned to each species using the Fishery Ecology Branch revised species code list. Species not found on the code list were assigned a new code, which was also added to the master code file.

Process_Date: unknown

Metadata_Reference_Information:

Metadata_Date: 20060223

Metadata_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: NOAA Fisheries Service,
Fishery Ecology Branch, Galveston, Texas

Contact_Person: Dr. Jim Ditty

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Address_Type: mailing and physical

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Metadata_Standard_Name: FGDC Content Standard for Digital Geospatial Metadata

Metadata_Standard_Version: FGDC-STD-001.1-1999