

STATE Texas

DATE July 1, 1951

### QUARTERLY REPORT

From: April 1, 1951 to June 30, 1951

Biologist: Joseph P. Breuer

Boat: Dolphin

Crew: Jose Rinche

### INTRODUCTION

The months of April and May were spent in carrying out various miscellaneous projects at the laboratory and in becoming familiar with the Laguna Madre and the various oceanographic methods and techniques in preparation for the project now underway.

On May 11, 1951, field headquarters were set up at Caroline Beach (Loyola Beach) on Baffin Bay from which an ecological survey of the Baffin Bay area will be conducted. Fish tagging operations will also be carried out. This project is part of the Laguna Madre program now underway.

### AREAS WORKED

Baffin Bay in its entirety including Alazan Bay to the mouth of Petronella Creek, Grullo Bayou to the mouth of Escondido Creek and Bovido Creek to the mouth of Salt Creek.

### ACTIVITIES

No biological data has been accumulated to date. Considerable time has been spent in establishing field headquarters and in becoming acquainted with the area to be worked. Navigation is extremely difficult in the Baffin Bay area due to the large number of partly submerged rock reefs in the area.

Seventeen stations have been established in the Baffin Bay area. The locations of these stations were chosen

arbitrarily and may be changed when type habitats become known. Water temperature, air temperature, plankton samples, pH and salinity will be taken at each station weekly. Other data will be accumulated when the necessary equipment becomes available. Attached vegetation and bottom sediment will be mapped.

#### OTHER ACTIVITIES

I attended the Regional Meeting of the Texas Academy of Science in Corpus Christi, Texas on April 6, 1951.

I aided Biologist Dewey Miles in trammel net operations for the Trout and Redfish Investigation on April 10th and April 17, 1951.

I attended a laboratory staff meeting on April 26, 1951 at which representatives of the Southwest Research Foundation were present.

I participated in the First Open House at the Marine Laboratory in Rockport, Texas on May 6, 1951.

I conferred with authorities on soil and water analyses at Texas A. & M. College, College Station, Texas from May 12 to May 15, 1951.

#### UTILIZATION OF TIME

Project	Biologist Hours	Crew* Hours
Baffin Bay (Field)	76	76
Baffin Bay (Laboratory)	445	
Trout and Redfish (Field)	16	
Transportation	60	
Establishment of Headquarters	45	
Preparation of Reports	15	
Open House	18	
Meetings	40	
Correspondence	20	
Public Relations	36	
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\*Crew time is the time spent by crew when boat is away from the dock and underway and when the biologist is aboard.

# SUMMARY

The Baffin Bay project of the Laguna Madre program was formally initiated on May 11, 1951.