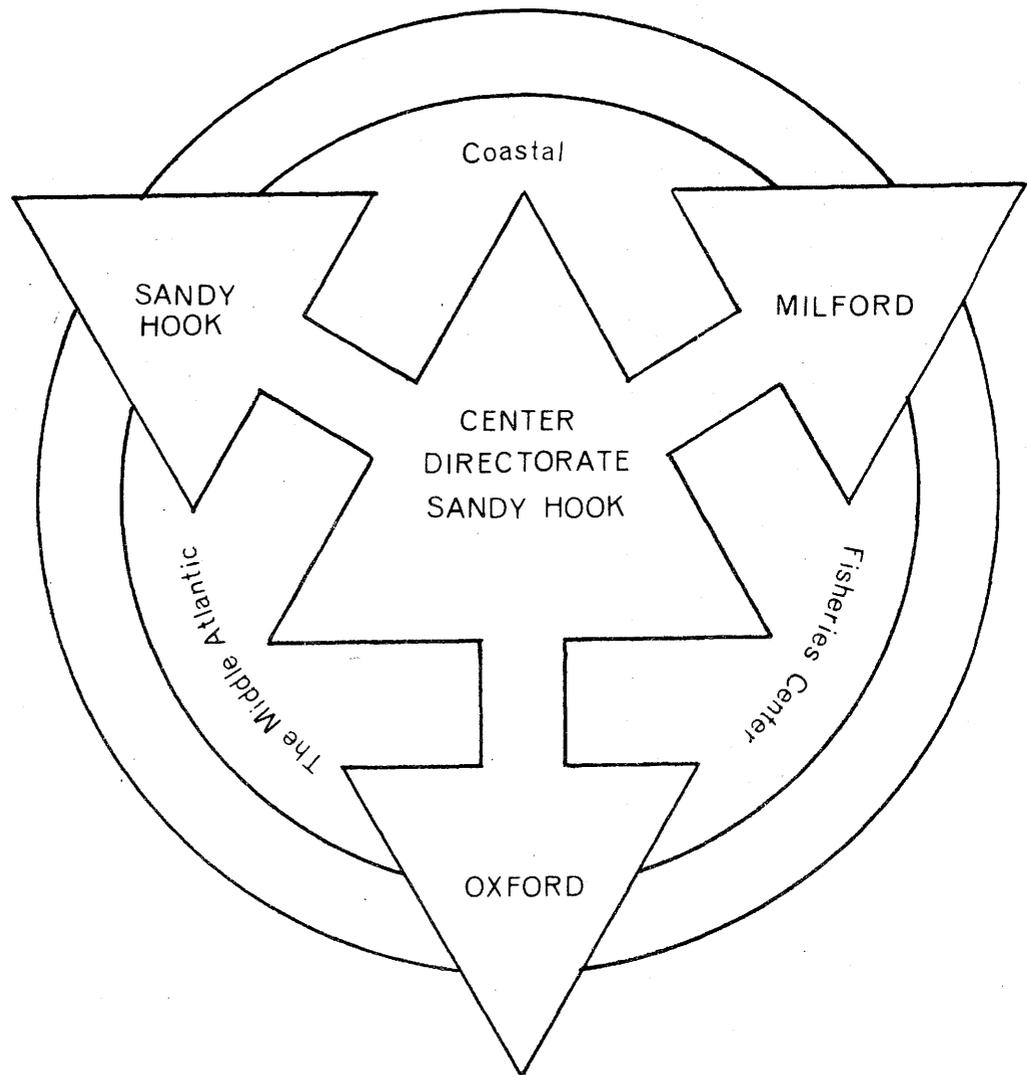


DRAFT RESEARCH PROPOSAL FOR FY 1976
MESA - NYB FUNDING: "ANALYSIS OF EXISTING NYB APEX
BENTHIC SAMPLES AND DATA"



U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
National Marine Fisheries Service
Northeast Region

MIDDLE ATLANTIC COASTAL FISHERIES CENTER



Informal Report No. 57

March 26, 1975

DRAFT

Research Proposal

Submitted by

Middle Atlantic Coastal Fisheries Center
National Marine Fisheries Service
National Oceanic and Atmospheric Administration

to

MESA-New York Bight Program Manager
Marine Ecosystems Analysis Program
Environmental Research Laboratories
National Oceanic and Atmospheric Administration

for support of studies on:

ANALYSIS OF EXISTING NYB APEX BENTHIC SAMPLES AND DATA

Total Amount Requested: \$ 139,700.00

Date: _____

Approved by: _____
Principal Investigator
(201)872-0200

Carl J. Sindermann
Director, Middle Atlantic Coastal Fisheries Center

ANALYSIS OF EXISTING NYB APEX BENTHIC SAMPLES AND DATA
(Narrative summary of proposed research)

Collections for all benthic macrofauna have been tabulated in the MACFC Trimester Report for 1 July 1974 - 28 February 1975. The present proposal assumes that all alternate dump site samples presently held will be sorted and identified by 1 July 1975 and a report submitted to MESA by 1 August 1975. Work projected for FY 1976 would include:

- 1) Sorting and identification of one sample/station (std. MESA grid) for the quarterly cruises not worked up in FY 1975 (one sample/station taken during August 1973 and August 1974 will have been sorted and identified);
- 2) Based on macrofaunal data from five quarterly (seasonal) cruises, and availability of associated physical/chemical data, and ADP services, we will then describe sampling strata using cluster analyses and other techniques;
- 3) Once sampling strata are defined, we propose to sort and identify species at stations representative of each strata; we will then be able to calculate within and between strata variation and the relationship of variation to contaminant burden and "natural forces".

Following the foregoing procedure we anticipate that we can greatly reduce the number of stations necessary in future monitoring studies designed to show short-term ecosystems responses to contaminants.

No additional field work or benthic collections during FY 1976 are included as part of this proposal.

DRAFT

Work Unit: Title: Analysis of Existing New York Bight Apex Benthic Samples and Data

BUDGET SUMMARY - FY 1976

	<u>% Time</u>	<u>MAN-MONTHS</u>	<u>MESA FUNDS</u>
<u>Personnel Service</u> (15% Benefits - Leave Surcharge, etc.)			
<u>Name or Position</u>			
Dr. J. Pearce, Dir. of Invest.	GS-14 20	2.4	7.1
*Dr. K. McNulty, Fish. Biol.	GS-14 50	6.0	16.2
J. Caracciolo, Biol. Tech. (Supv.)	GS- 6 60	7.2	7.2
M. Halsey, Biol. Aid	GS- 4 50	6.0	4.4
(5) Student Trainees			
Bio. Sci., Biol. Aid	GS- 4 100	60.0	44.5
Overtime		1.0	1.0
		82.6	80.4
<u>Travel</u>			1.5
<u>Transportation of Things</u>			.2
<u>Printing and Reproduction</u>			1.5
<u>Computer</u>			8.0
<u>Contracts</u>			
Multivariate Analysis of Macrobenthic Data			
Dr. Saul Saila, Univ. of Rhode Island			10.0
<u>Support Services</u>			.7
<u>Supplies and Expendables</u>			2.5
<u>Total Direct Funds</u>			104.8
<u>Total Support Funds</u>			34.9
Total Funds			139.7

* MESA Coordinator