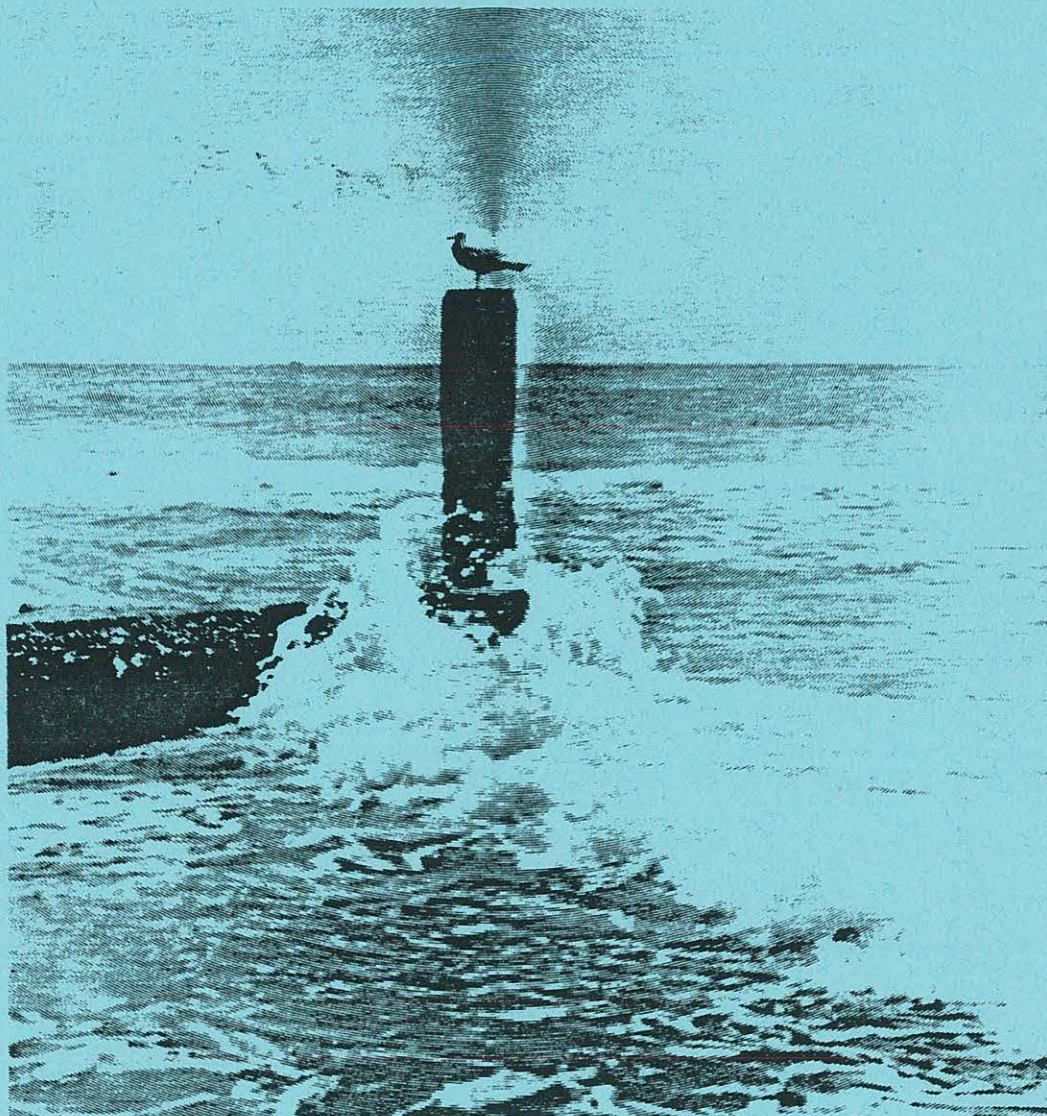


NODC Informal Report No. 2



Data Characterizations for Western Long Island Sound

June 1986



U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
National Environmental Satellite, Data, and Information Service

NODC Informal Report No. 2



Data Characterizations for Western Long Island Sound

E. Collins, G. Heimerdinger

National Oceanographic Data Center
Washington, D.C.

June 1986

Reprinted July 1989

U.S. DEPARTMENT OF COMMERCE

Malcom Baldrige, Secretary

National Oceanic and Atmospheric Administration

Anthony J. Calio, Administrator

National Environmental Satellite, Data, and Information Service

William P. Bishop, Acting Assistant Administrator

PREFACE

The contents of this document are the result of cooperative involvement between the National Oceanographic Data Center (NODC) and the Ocean Assessment Division of the National Ocean Service (NOS) in the evaluation, from historical data sets, of the annual oxygen depletion event in western Long Island Sound. This project is one of many resulting from the NOAA/EPA Interagency Agreement for FY-86 for Northeast Estuary Activities. A map of the Long Island Sound area is attached as Figure 1.

The NODC's tasks within this cooperative effort were to (1) identify, (2) document, and (3) acquire all water column data containing dissolved oxygen for the target area from all possible sources. The Interstate Sanitation Commission provided data from state and local governments. Following these tasks, the Ocean Assessments Division will be determining the spatial extent and the intensity of the dissolved oxygen decline, as well as any environmental and human impact.

This document presents the results of the first two elements of the task. Data sets containing oxygen and related parameters for Long Island Sound and adjacent embayments have been described in a series of data set/source characterization sheets. The data acquisition task supported the immediate needs of the assessment task as well as an EPA directed mission to automate useful estuarine data sets for entry into their Ocean Data Evaluation System (ODES). As a result, some portion of the data sets described here will be accessible via ODES.

The information for the characterization sheets was obtained from personal contacts or extracted from limited distribution gray literature documents held in libraries and personal collections. Journal literature is rarely the medium used for publishing data. However, this medium provided clues and pointers to data sources.

The automated files at NODC and the EPA STORET system were searched for relevant data sets. The NODC has no water column data containing oxygen for Long Island Sound. However, many EPA files have been characterized. This search for the data files for Long Island was extensive, but it should not be considered exhaustive. Information on additional data sets for the area would be welcomed by the authors.

Within the document, each data characterization was assigned a unique number, preceded by "LIS". The characterization sheets are arranged sequentially by LIS-number. Some LIS numbers were removed because of duplication. No attempt has been made to prioritize the data. Where possible, one or more sampling location maps have been included following the data characterization. Referenced documents are available in libraries or document collections. Unless stated otherwise, the data are held by the originator.

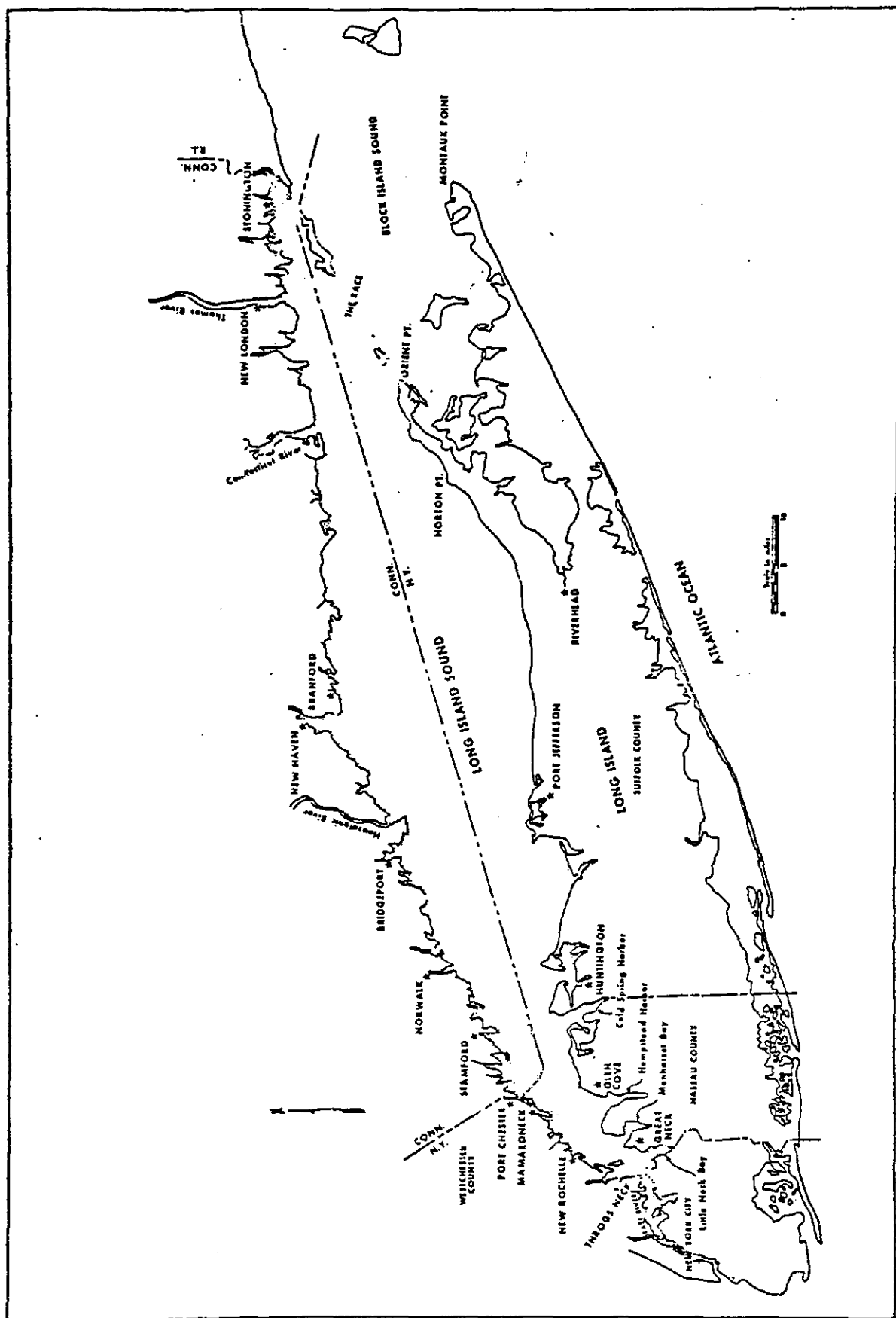


Figure 1. Long Island Sound and adjacent areas.

ACKNOWLEDGMENTS

A sincere thank you is extended to all investigators, program managers, librarians, and programmers who responded to the questions asked about the data and who provided information or made data available for these data characterizations.

DATA CHARACTERIZATION (LISI)
STUDY OF OXYGEN DEPLETION IN WESTERN LONG ISLAND SOUND

1. Organization Contacted:
2. Person Contacted:
3. Telephone No.:
4. Address of Contact:

5. Citation: Duxbury, A.C. A Hydrographic Survey of New Haven Harbor 1952-1953. Connecticut Water Resources Commission. Conn. Water Resour. Bull. No. 3A.

6. Sample/Survey Type (describe frequency and/or resolution):

A. Station(s):
B. Synoptic Survey: Approx. weekly for 8 mos.

C. Vertical Resolution: 0, 5, and 10 ft

7. Time Span of Data: From: 10/31/52 To: 08/27/63

8. Data Study Area: New Haven Harbor, CT

9. Parameters measured (describe units):

Dissolved Oxygen ml/l

Temperature degrees F

Conductivity mmhos

Phosphate ug-at/l

10. Status of Data. Availability, and Cost:

A. Raw

B. Document

C. Computerized

D. Data Base Name

E. Data Products

11. Comments: Report presents the raw data as well as the data in graphic form.

DATA CHARACTERIZATION (LIS2)
STUDY OF OXYGEN DEPLETION IN WESTERN LONG ISLAND SOUND

1. Organization Contacted: Hazen and Sawyer. P.C.
2. Person Contacted: Richard Daniels
3. Telephone No.: (212) 777-8400
4. Address of Contact: 730 Broadway, NY 10003
-
5. Citation: Hazen and Sawyer. 1984. Newtown Creek Water Pollution Control Plant. Revised Application for Modification of the Requirements of Secondary Treatment Under Section 301(h) PL 97-117. City of New York D.E.P.
-
6. Sample/Survey Type (describe frequency and/or resolution):
 - A. Station(s):
 - B. Synoptic Survey: 11 sta. at weekly intervals
 - C. Vertical Resolution: top and bottom
7. Time Span of Data: From: 06/84 To: 09/84
8. Data Study Area: Newtown Creek, NY
9. Parameters measured (describe units):

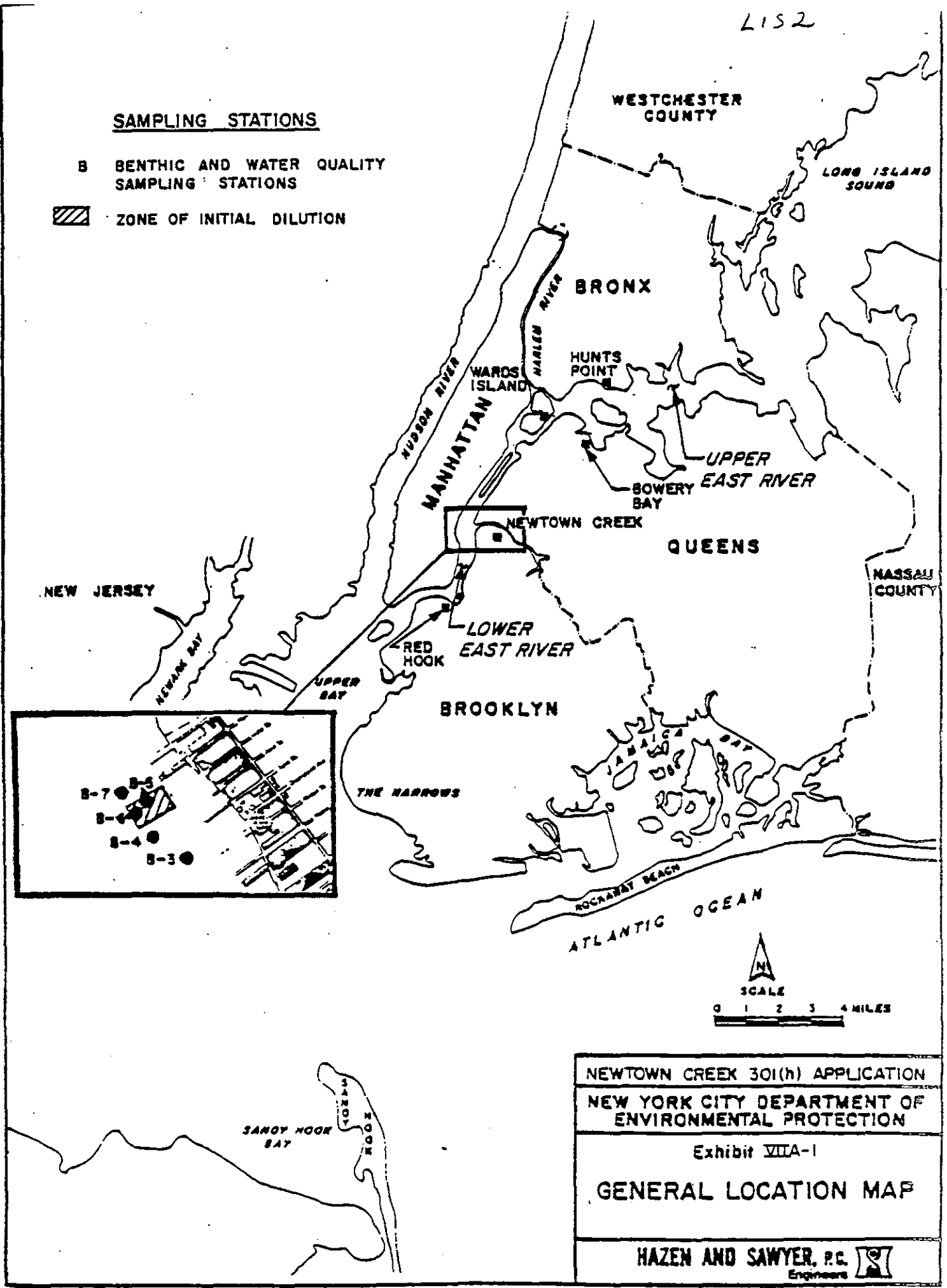
Dissolved Oxygen	mg/l
Temperature	degrees C
Salinity/Conductivity	ppt
Phytoplankton Pigments	mg/l
Nitrate, Nitrite, Ammonia	mg/l
BOD	mg/l
10. Status of Data, Availability, and Cost:
 - A. Raw
 - B. Document
 - C. Computerized Lotus 1-2-3 spreadsheets (2 diskettes)
 - D. Data Base Name
 - E. Data Products

11. Comments: Automated data also available on ODES system.

SAMPLING STATIONS

B BENTHIC AND WATER QUALITY
SAMPLING STATIONS

 ZONE OF INITIAL DILUTION



NEWTOWN CREEK 301(h) APPLICATION
NEW YORK CITY DEPARTMENT OF
ENVIRONMENTAL PROTECTION
Exhibit VIIA-1
GENERAL LOCATION MAP
HAZEN AND SAWYER, P.C. 
Engineers

DATA CHARACTERIZATION (LIS3)
STUDY OF OXYGEN DEPLETION IN WESTERN LONG ISLAND SOUND

1. Organization Contacted:

2. Person Contacted:

3. Telephone No.:

4. Address of Contact:

5. Citation: Alexander, J. and White, T. Preoperational Ecological Monitoring Program of the Marine Environs at the Long Island Lighting Company (LILCO) Nuclear Power Generating Facility, Shoreham, Long Island, N.Y. Final Report, Contract SR-72-32. (Contract to Chemical Oceanography Dept of the New York Ocean Science Laboratory (NYOSL) by LILCO).

6. Sample/Survey Type (describe frequency and/or resolution):

A. Station(s): 5

B. Synoptic Survey: monthly

C. Vertical Resolution: surface & bottom, shallow (2-6 m)
& offshore (24 m)

7. Time Span of Data: From: 03/73 To: 02/74

8. Data Study Area: coastal waters off Shoreham, LI, NY

9. Parameters measured (describe units):

Dissolved Oxygen	ml/l
Salinity	ppt
Phytoplankton Pigments	mg/m ³
Nitrate, Nitrite, Ammonia	ug-at/l
Phosphate, Silicate	ug-at/l
Organic Nitrogen	ug-at/l

10. Status of Data, Availability, and Cost:

A. Raw

B. Document

C. Computerized

D. Data Base Name

E. Data Products

11. Comments: Report presents the data in graphic form. Average seasonal variation is presented as xy plots in document.

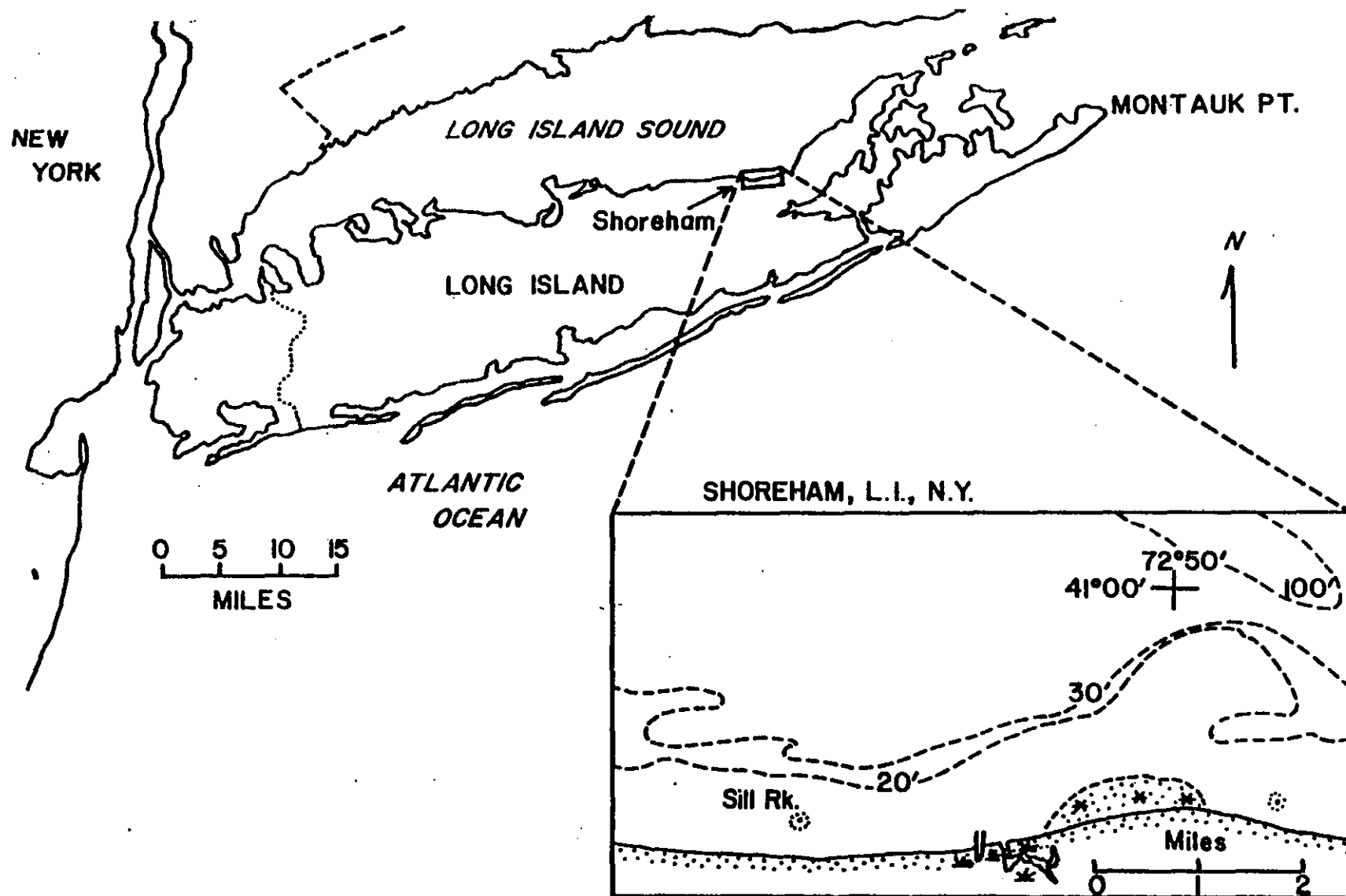


Figure 26a. Location of Study Area in Long Island Sound.

DATA CHARACTERIZATION (LIS4)
STUDY OF OXYGEN DEPLETION IN WESTERN LONG ISLAND SOUND

1. Organization Contacted: EPA
2. Person Contacted: P. Lindenstruth
3. Telephone No.: (202) 382-7220
4. Address of Contact: WH-553, Washington, DC 20460
- 5. Citation:

6. Sample/Survey Type (describe frequency and/or resolution):
 - A. Station(s): 1
 - B. Synoptic Survey: monthly. months 6-8
 - C. Vertical Resolution: 2.40 ft
7. Time Span of Data: From: 06/14/22 To: 09/19/66
8. Data Study Area: near Throgs Neck
9. Parameters measured (describe units):

Dissolved Oxygen	mg/l
% Oxygen Saturation	%
10. Status of Data, Availability, and Cost:
 - A. Raw
 - B. Document
 - C. Computerized
 - D. Data Base Name EPA STORET SYSTEM
 - E. Data Products
11. Comments: U.S. EPA Region 2 data via STORET

DATA CHARACTERIZATION (LISS)
STUDY OF OXYGEN DEPLETION IN WESTERN LONG ISLAND SOUND

1. Organization Contacted: EPA
2. Person Contacted: P. Lindenstruth
3. Telephone No.: (202) 382-7220
4. Address of Contact: WH-553, WASHINGTON, DC 20460
- 5. Citation:

6. Sample/Survey Type (describe frequency and/or resolution):
 - A. Station(s): 1
 - B. Synoptic Survey: monthly, months 6-9
 - C. Vertical Resolution: 2.40 ft
7. Time Span of Data: From: 06/15/27 To: 09/19/66
8. Data Study Area: tip of Hart Island in mid-channel
9. Parameters measured (describe units):

Dissolved Oxygen	mg/l
% Oxygen Saturation	%
10. Status of Data, Availability, and Cost:
 - A. Raw
 - B. Document
 - C. Computerized
 - D. Data Base Name EPA STORET SYSTEM
 - E. Data Products
11. Comments: U.S. EPA Region 2 data via STORET

DATA CHARACTERIZATION (LIS6)
STUDY OF OXYGEN DEPLETION IN WESTERN LONG ISLAND SOUND

1. Organization Contacted: EPA
2. Person Contacted: P.Lindenstruth
3. Telephone No.: (202) 382-7220
4. Address of Contact: WH-553, Washington, DC 20460

5. Citation:

6. Sample/Survey Type (describe frequency and/or resolution):

- A. Station(s): 1
- B. Synoptic Survey: months 4-9
- C. Vertical Resolution: unknown

7. Time Span of Data: From: 07/10/67 To: 08/09/72

8. Data Study Area: Coastal Connecticut

9. Parameters measured (describe units):

- Dissolved Oxygen mg/l
- % Oxygen Saturation %
- Temperature degrees C

10. Status of Data, Availability, and Cost:

- A. Raw
- B. Document
- C. Computerized
- D. Data Base Name EPA STORET SYSTEM
- E. Data Products

11. Comments: U.S. EPA Region 1 data via STORET

DATA CHARACTERIZATION (LIS7)
STUDY OF OXYGEN DEPLETION IN WESTERN LONG ISLAND SOUND

1. Organization Contacted: EPA
2. Person Contacted: P.Lindenstruth
3. Telephone No.: (202) 382-7220
4. Address of Contact: WH-553. Washington. DC 20460
- 5. Citation:

6. Sample/Survey Type (describe frequency and/or resolution):
 - A. Station(s): 1
 - B. Synoptic Survey: 2 mo/yr
 - C. Vertical Resolution: 2.14-68 ft
7. Time Span of Data: From: 09/18/75 To: 06/24/77
8. Data Study Area: near south tip of Hart Island
9. Parameters measured (describe units):

Dissolved Oxygen	mg/l
% Oxygen Saturation	%
Temperature	degrees C
Salinity	ppt
10. Status of Data. Availability, and Cost:
 - A. Raw
 - B. Document
 - C. Computerized
 - D. Data Base Name EPA STORET
 - E. Data Products
11. Comments: U.S. EPA Region 2 data via STORET

DATA CHARACTERIZATION (LIS8)
STUDY OF OXYGEN DEPLETION IN WESTERN LONG ISLAND SOUND

1. Organization Contacted: EPA
2. Person Contacted: P. Lindenstruth
3. Telephone No.: (202) 382-7220
4. Address of Contact: WH-553, Washington, DC 20460

5. Citation:

6. Sample/Survey Type (describe frequency and/or resolution):

- A. Station(s): 1
- B. Synoptic Survey: monthly
- C. Vertical Resolution: 2, 14-58 ft

7. Time Span of Data: From: 09/18/75 To: 12/16/76

8. Data Study Area: near Throgs Neck

9. Parameters measured (describe units):

- Dissolved Oxygen mg/l
- % Oxygen Saturation %
- Temperature degrees C
- Salinity ppt
- pH

10. Status of Data, Availability, and Cost:

- A. Raw
- B. Document
- C. Computerized
- D. Data Base Name EPA STORET
- E. Data Products

11. Comments: U.S. EPA Region 2 data via STORET

DATA CHARACTERIZATION (LIS9)
STUDY OF OXYGEN DEPLETION IN WESTERN LONG ISLAND SOUND

1. Organization Contacted: EPA
2. Person Contacted: P. Lindenstruth
3. Telephone No.: (202) 382-7220
4. Address of Contact: WH-553. Washington, DC 20460
- 5. Citation:

6. Sample/Survey Type (describe frequency and/or resolution):
 - A. Station(s): 1
 - B. Synoptic Survey: 1-2 mo/yr
 - C. Vertical Resolution: 2.25-63 ft
7. Time Span of Data: From: 09/18/75 To: 07/27/77
8. Data Study Area: between Parsonage Pt and Matinecock Pt, NY
9. Parameters measured (describe units):

Dissolved Oxygen	mg/l
% Oxygen Saturation	%
Temperature	degrees C
Salinity	opt
pH	
10. Status of Data. Availability, and Cost:
 - A. Raw
 - B. Document
 - C. Computerized
 - D. Data Base Name EPA STORET
 - E. Data Products
11. Comments: U.S. EPA Region 2 data via STORET

DATA CHARACTERIZATION (LIS10)
STUDY OF OXYGEN DEPLETION IN WESTERN LONG ISLAND SOUND

1. Organization Contacted: EPA
2. Person Contacted: P. Lindenstruth
3. Telephone No.: (202) 382-7220
4. Address of Contact: WH-553. Washington, DC 20460

5. Citation:

6. Sample/Survey Type (describe frequency and/or resolution):

- A. Station(s): 17
- B. Synoptic Survey: months 7,11,12
- C. Vertical Resolution: surface

7. Time Span of Data: From: 07/15/76 To: 12/06/76

8. Data Study Area: Hempstead Harbor, NY

9. Parameters measured (describe units):

- Dissolved Oxygen mg/l
- % Oxygen Saturation %
- Temperature degrees C
- Salinity ppt

10. Status of Data, Availability, and Cost:

- A. Raw
- B. Document
- C. Computerized
- D. Data Base Name EPA STORET
- E. Data Products

11. Comments: U.S. EPA Region 2 data via STORET

DATA CHARACTERIZATION (LIS11)
STUDY OF OXYGEN DEPLETION IN WESTERN LONG ISLAND SOUND

1. Organization Contacted: EPA
2. Person Contacted: P. Lindenstruth
3. Telephone No.: (202) 382-7220
4. Address of Contact: WH-553, Washington, DC 20460
- 5. Citation:

6. Sample/Survey Type (describe frequency and/or resolution):
 - A. Station(s): 22
 - B. Synoptic Survey: 1 day/month
 - C. Vertical Resolution: surface
7. Time Span of Data: From: 06/22/76 To: 08/18/76
8. Data Study Area: Huntington-Northport, NY
9. Parameters measured (describe units):

Dissolved Oxygen	mg/l
% Oxygen Saturation	%
Temperature	degrees C
Salinity	ppt
10. Status of Data, Availability, and Cost:
 - A. Raw
 - B. Document
 - C. Computerized
 - D. Data Base Name EPA STORET
 - E. Data Products
11. Comments: U.S. EPA Region 2 data via STORET

DATA CHARACTERIZATION (LIS12)
STUDY OF OXYGEN DEPLETION IN WESTERN LONG ISLAND SOUND

1. Organization Contacted: EPA
2. Person Contacted: P. Lindenstruth
3. Telephone No.: (202) 382-7220
4. Address of Contact: WH-553. Washington, DC 20460
- 5. Citation:

6. Sample/Survey Type (describe frequency and/or resolution):
 - A. Station(s): 1
 - B. Synoptic Survey: 2 days, 3 samples/day
 - C. Vertical Resolution: surface
7. Time Span of Data: From: 06/10/76 To: 07/08/76
8. Data Study Area: Port Jefferson Harbor, NY
9. Parameters measured (describe units):

Dissolved Oxygen	mg/l
% Oxygen Saturation	%
Temperature	degrees C
Salinity	ppt
10. Status of Data, Availability, and Cost:
 - A. Raw
 - B. Document
 - C. Computerized
 - D. Data Base Name EPA STORET
 - E. Data Products
11. Comments: U.S. EPA Region 2 data via STORET

DATA CHARACTERIZATION (LIS13)
STUDY OF OXYGEN DEPLETION IN WESTERN LONG ISLAND SOUND

1. Organization Contacted: EPA
2. Person Contacted: P. Lindenstruth
3. Telephone No.: (202) 382-7220
4. Address of Contact: WH-553, Washington, DC 20460

5. Citation:

6. Sample/Survey Type (describe frequency and/or resolution):

A. Station(s): 1
B. Synoptic Survey: months 8,10; 2 days/month
C. Vertical Resolution: unknown

7. Time Span of Data: From: 08/17/76 To: 10/25/76

8. Data Study Area: Westchester County, NY

9. Parameters measured (describe units):

% Oxygen Saturation %
Temperature degrees C
pH

10. Status of Data, Availability, and Cost:

A. Raw
B. Document
C. Computerized
D. Data Base Name EPA STORET
E. Data Products

11. Comments: U.S. EPA Region 2 data via STORET

DATA CHARACTERIZATION (LIS14)
STUDY OF OXYGEN DEPLETION IN WESTERN LONG ISLAND SOUND

1. Organization Contacted: EPA
2. Person Contacted: P. Lindenstruth
3. Telephone No.: (202) 382-7220
4. Address of Contact: WH-553, Washington, DC 20460
- 5. Citation:

6. Sample/Survey Type (describe frequency and/or resolution):
 - A. Station(s): 1
 - B. Synoptic Survey: 2 months, 2 days/month
 - C. Vertical Resolution: unknown
7. Time Span of Data: From: 08/19/76 To: 10/26/76
8. Data Study Area: Westchester County, NY
9. Parameters measured (describe units):

% Oxygen Saturation	%
Temperature	degrees C
pH	
10. Status of Data, Availability, and Cost:
 - A. Raw
 - B. Document
 - C. Computerized
 - D. Data Base Name EPA STORET
 - E. Data Products
11. Comments: U.S. EPA Region 2 data via STORET

DATA CHARACTERIZATION (LIS15)
STUDY OF OXYGEN DEPLETION IN WESTERN LONG ISLAND SOUND

1. Organization Contacted: EPA
2. Person Contacted: P. Lindenstruth
3. Telephone No.: (202) 382-7220
4. Address of Contact: WH-553, Washington, DC 20460
- 5. Citation:

6. Sample/Survey Type (describe frequency and/or resolution):
 - A. Station(s): 1
 - B. Synoptic Survey: 1 day. 5 samples/20 min
 - C. Vertical Resolution: unknown
7. Time Span of Data: From: 10/26/76 To: 10/26/76
8. Data Study Area: Westchester County, NY
9. Parameters measured (describe units):

% Oxygen Saturation	%
Temperature	degrees C
pH	
10. Status of Data. Availability, and Cost:
 - A. Raw
 - B. Document
 - C. Computerized
 - D. Data Base Name EPA STORET
 - E. Data Products
11. Comments: U.S. EPA Region 2 data via STORET

DATA CHARACTERIZATION (LIS16)
STUDY OF OXYGEN DEPLETION IN WESTERN LONG ISLAND SOUND

1. Organization Contacted: EPA
2. Person Contacted: P. Lindenstruth
3. Telephone No.: (202) 382-7220
4. Address of Contact: WH-553, Washington, DC 20460
- 5. Citation:

6. Sample/Survey Type (describe frequency and/or resolution):
 - A. Station(s): 1
 - B. Synoptic Survey: months 8,10; 2 days/month
 - C. Vertical Resolution: unknown
7. Time Span of Data: From: 08/18/76 To: 10/21/76
8. Data Study Area: Westchester County, NY
9. Parameters measured (describe units):

% Oxygen Saturation	%
Temperature	degrees C
pH	
10. Status of Data, Availability, and Cost:
 - A. Raw
 - B. Document
 - C. Computerized
 - D. Data Base Name EPA STORET
 - E. Data Products
11. Comments: U.S. EPA Region 2 data via STORET

DATA CHARACTERIZATION (LIS17)
STUDY OF OXYGEN DEPLETION IN WESTERN LONG ISLAND SOUND

1. Organization Contacted: EPA
2. Person Contacted: P. Lindenstruth
3. Telephone No.: (202) 382-7220
4. Address of Contact: WH-553, Washington, DC 20460

5. Citation:

6. Sample/Survey Type (describe frequency and/or resolution):

- A. Station(s): 1
- B. Synoptic Survey:
- C. Vertical Resolution: unknown

7. Time Span of Data: From: 08/20/76 To: 08/20/76

8. Data Study Area: Westchester County, NY

9. Parameters measured (describe units):

- % Oxygen Saturation %
- Temperature degrees C
- pH

10. Status of Data, Availability, and Cost:

- A. Raw
- B. Document
- C. Computerized
- D. Data Base Name EPA STORET
- E. Data Products

11. Comments: U.S. EPA Region 2 data via STORET

DATA CHARACTERIZATION (LIS19)
STUDY OF OXYGEN DEPLETION IN WESTERN LONG ISLAND SOUND

1. Organization Contacted: EPA
2. Person Contacted: P. Lindenstruth
3. Telephone No.: (202) 382-7220
4. Address of Contact: WH-553, Washington, DC 20460
5. Citation: -----
6. Sample/Survey Type (describe frequency and/or resolution):
 - A. Station(s): 1
 - B. Synoptic Survey: approx. monthly
 - C. Vertical Resolution: 1-15 ft
7. Time Span of Data: From: 07/15/76 To: 07/10/85
8. Data Study Area: Housatonic R. at Stratford, CT
9. Parameters measured (describe units):

Dissolved Oxygen	mg/l	
% Oxygen Saturation	%	
Temperature	degrees C	
Salinity	ppt	
CH		
Turbidity		
10. Status of Data, Availability, and Cost:
 - A. Raw
 - B. Document
 - C. Computerized
 - D. Data Base Name: EPA STORET
 - E. Data Products
11. Comments: U.S. Geological Survey data via STORET

DATA CHARACTERIZATION (LIS20)
STUDY OF OXYGEN DEPLETION IN WESTERN LONG ISLAND SOUND

1. Organization Contacted: EPA
2. Person Contacted: P. Lindenstruth
3. Telephone No.: (202) 382-7220
4. Address of Contact: WH-553. Washington. DC 20460
- 5. Citation:

6. Sample/Survey Type (describe frequency and/or resolution):
 - A. Station(s): 1
 - B. Synoptic Survey: quarterly
 - C. Vertical Resolution: 1-5 ft, 1 sample of 15 ft
7. Time Span of Data: From: 07/15/74 To: 07/09/85
8. Data Study Area: Stamford Harbor, CT
9. Parameters measured (describe units):

Dissolved Oxygen	mg/l
% Oxygen Saturation	%
Temperature	degrees C
Salinity	psu
pH	
Turbidity	
10. Status of Data. Availability, and Cost:
 - A. Raw
 - B. Document
 - C. Computerized
 - D. Data Base Name EPA STORET
 - E. Data Products
11. Comments: U.S. Geological Survey data via STORET

DATA CHARACTERIZATION (LIS21)
STUDY OF OXYGEN DEPLETION IN WESTERN LONG ISLAND SOUND

1. Organization Contacted: EPA
2. Person Contacted: P. Lindenstruth
3. Telephone No.: (202) 382-7220
4. Address of Contact: WH-553, Washington, DC 20460
5. Citation:

6. Sample/Survey Type (describe frequency and/or resolution):
 - A. Station(s): 1
 - B. Synoptic Survey: 1 sample/yr (71-72): monthly (75)
 - C. Vertical Resolution: unknown
7. Time Span of Data: From: 09/14/71 To: 09/26/75
8. Data Study Area: Blind Brook at Ave. NY
9. Parameters measured (describe units):

Dissolved Oxygen	mg/l
% Oxygen Saturation	%
Temperature	degrees C
pH	
Turbidity	
10. Status of Data, Availability, and Cost:
 - A. Raw
 - B. Document
 - C. Computerized
 - D. Data Base Name EPA STORET
 - E. Data Products
11. Comments: U.S. Geological Survey data via STORET

DATA CHARACTERIZATION (LIS22)
STUDY OF OXYGEN DEPLETION IN WESTERN LONG ISLAND SOUND

1. Organization Contacted: EPA
2. Person Contacted: P. Lindenstruth
3. Telephone No.: (202) 382-7220
4. Address of Contact: WH-553, Washington, DC 20460

5. Citation:

6. Sample/Survey Type (describe frequency and/or resolution):

- A. Station(s): 1
- B. Synoptic Survey: months 4.10
- C. Vertical Resolution: unknown

7. Time Span of Data: From: 10/25/77 To: 10/25/78

8. Data Study Area: Port Jefferson Harbor, CT

9. Parameters measured (describe units):

Dissolved Oxygen mg/l

% Oxygen Saturation %

Temperature degrees C

pH

10. Status of Data. Availability, and Cost:

- A. Raw
- B. Document
- C. Computerized
- D. Data Base Name EPA STORET
- E. Data Products

11. Comments: U.S. Geological Survey data via STORET

DATA CHARACTERIZATION (LIS23)
STUDY OF OXYGEN DEPLETION IN WESTERN LONG ISLAND SOUND

1. Organization Contacted: EPA
2. Person Contacted: P. Lindenstruth
3. Telephone No.: (202) 382-7220
4. Address of Contact: WH-553, Washington, DC 20460

5. Citation:

6. Sample/Survey Type (describe frequency and/or resolution):

A. Station(s): 1
B. Synoptic Survey: months 4-9
C. Vertical Resolution: / unknown

7. Time Span of Data: From: 07/10/67 To: 08/09/72

8. Data Study Area: Connecticut coastal

9. Parameters measured (describe units):

Dissolved Oxygen mg/l
% Oxygen Saturation %
Temperature degrees C

10. Status of Data, Availability, and Cost:

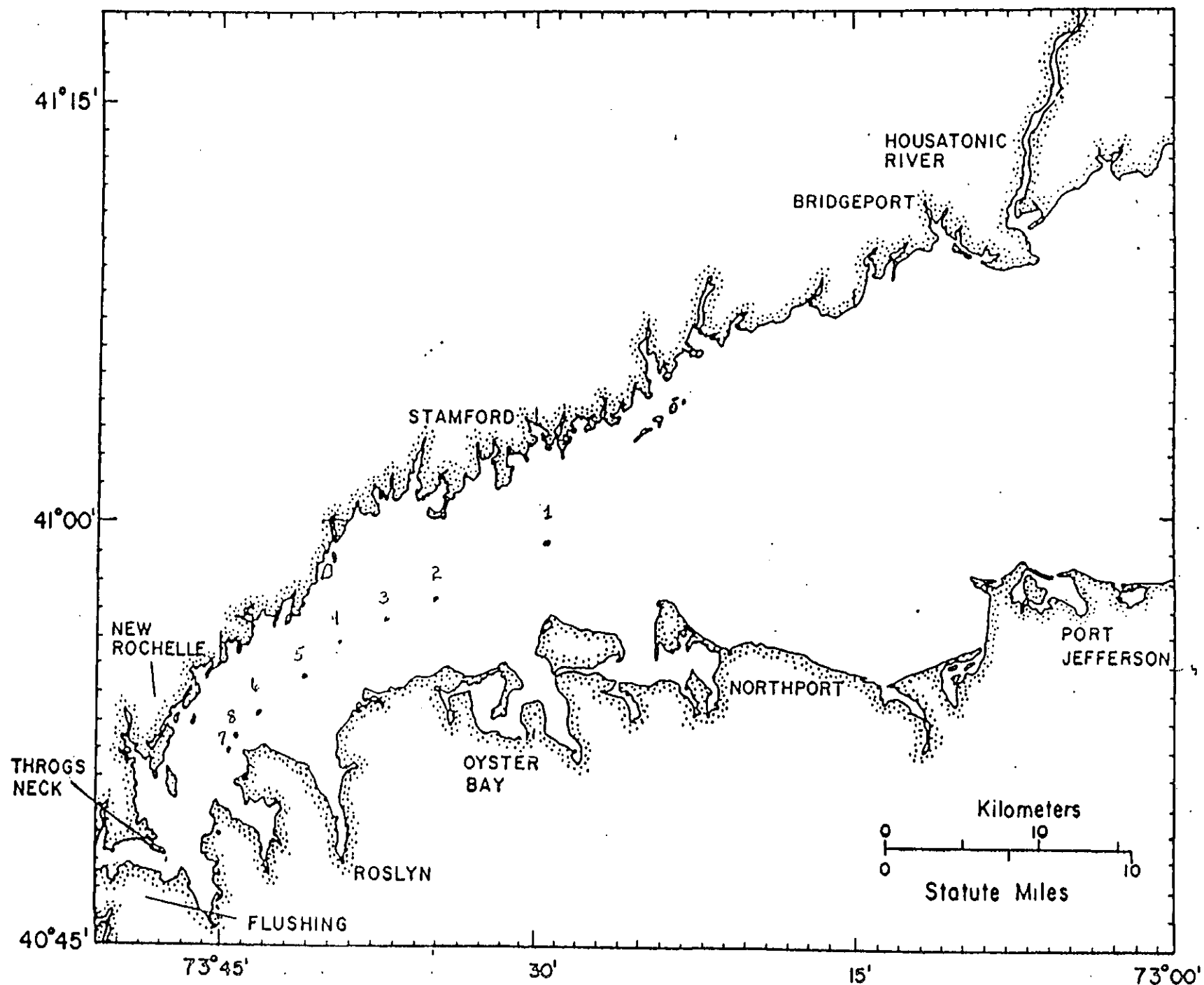
A. Raw
B. Document
C. Computerized
D. Data Base Name EPA STORET
E. Data Products

11. Comments: U.S. EPA Region 1 data via STORET

DATA CHARACTERIZATION (LIS24)
STUDY OF OXYGEN DEPLETION IN WESTERN LONG ISLAND SOUND

1. Organization Contacted: Yale University
2. Person Contacted: Donald C. Rhoads
3. Telephone No.: (203) 436-3129
4. Address of Contact: Dept. Geology-Geophysics
New Haven, CT 06520
-
5. Citation: Rhoads, D.C. 1985. Reconnaissance Mapping of Near-Bottom Dissolved Oxygen in Western Long Island Sound. Norwalk to Execution Rocks. Unpublished manuscript.
-
6. Sample/Survey Type (describe frequency and/or resolution):
 - A. Station(s):
 - B. Synoptic Survey: single survey of 8 stations
 - C. Vertical Resolution: bottom only (41-114 ft)
7. Time Span of Data: From: 08/28/85 To: 08/28/85
8. Data Study Area: deepest part of western Sound, mid-channel
9. Parameters measured (describe units):

Dissolved Oxygen	ml/l
------------------	------
10. Status of Data, Availability, and Cost:
 - A. Raw
 - B. Document
 - C. Computerized
 - D. Data Base Name
 - E. Data Products
11. Comments: Manuscript presents the data in graphic form.



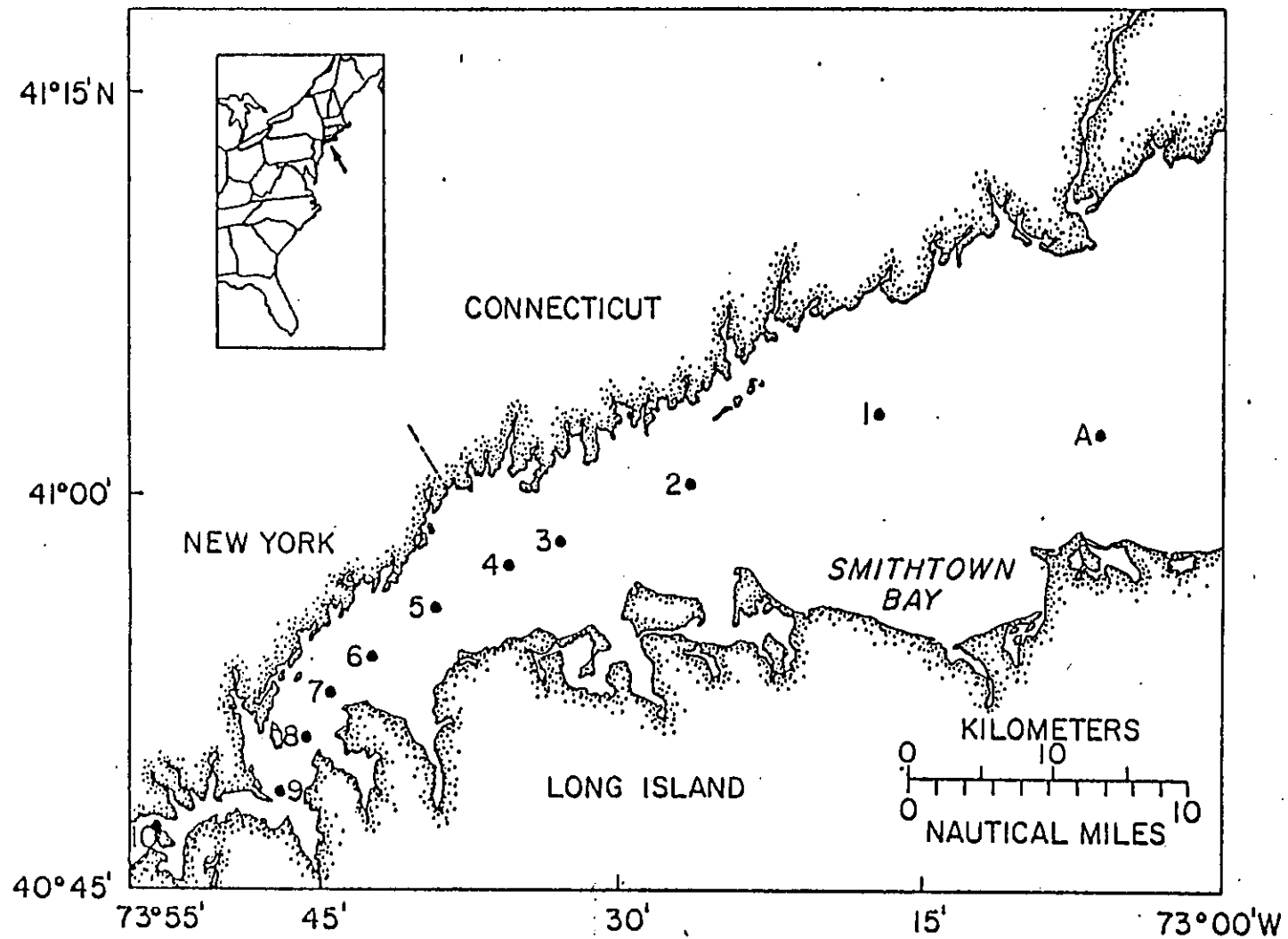
L1524

DATA CHARACTERIZATION (LIS25)
STUDY OF OXYGEN DEPLETION IN WESTERN LONG ISLAND SOUND

1. Organization Contacted: U.S. Merchant Marine Academy
2. Person Contacted: Edward Weiss
3. Telephone No.: (516) 643-5418
4. Address of Contact: Kings Point, NY 11024
-
5. Citation: Weiss, E., and Duedall, I. Wind and Air Temperature
Regulating Dissolved Oxygen. Unpublished Manuscript.

6. Sample/Survey Type (describe frequency and/or resolution):
 - A. Station(s):
 - B. Synoptic Survey: 8 surveys, 10 sta/survey
 - C. Vertical Resolution: surface to 25 meters
7. Time Span of Data: From: 07/21/77 To: 09/23/77
8. Data Study Area: western Sound, mid channel
9. Parameters measured (describe units):

Dissolved Oxygen	mg/l
Temperature	degrees C
Salinity	ppt
10. Status of Data, Availability, and Cost:
 - A. Raw
 - B. Document
 - C. Computerized
 - D. Data Base Name
 - E. Data Products
11. Comments: Manuscript presents the data in graphic form.



— EDWARD WEISS —

41525

DATA CHARACTERIZATION (LIS26)
STUDY OF OXYGEN DEPLETION IN WESTERN LONG ISLAND SOUND

1. Organization Contacted:

2. Person Contacted:

3. Telephone No.:

4. Address of Contact:

5. Citation: Avers, J.C. 1952. Data Report No. 2 - Tabulation
of Reduced Data of Cruise STIRNI III. Jan.-Feb. 1952. Cornell
University.

6. Sample/Survey Type (describe frequency and/or resolution):

A. Station(s):

B. Synoptic Survey: 1 survey

C. Vertical Resolution: surface to bottom

7. Time Span of Data: From: 01/52 To: 02/52

8. Data Study Area: East-west and north-south sections
through Sound

9. Parameters measured (describe units):

Dissolved Oxygen ml/l

% Oxygen Saturation %

Temperature degrees C

Salinity ppt

10. Status of Data. Availability. and Cost:

A. Raw

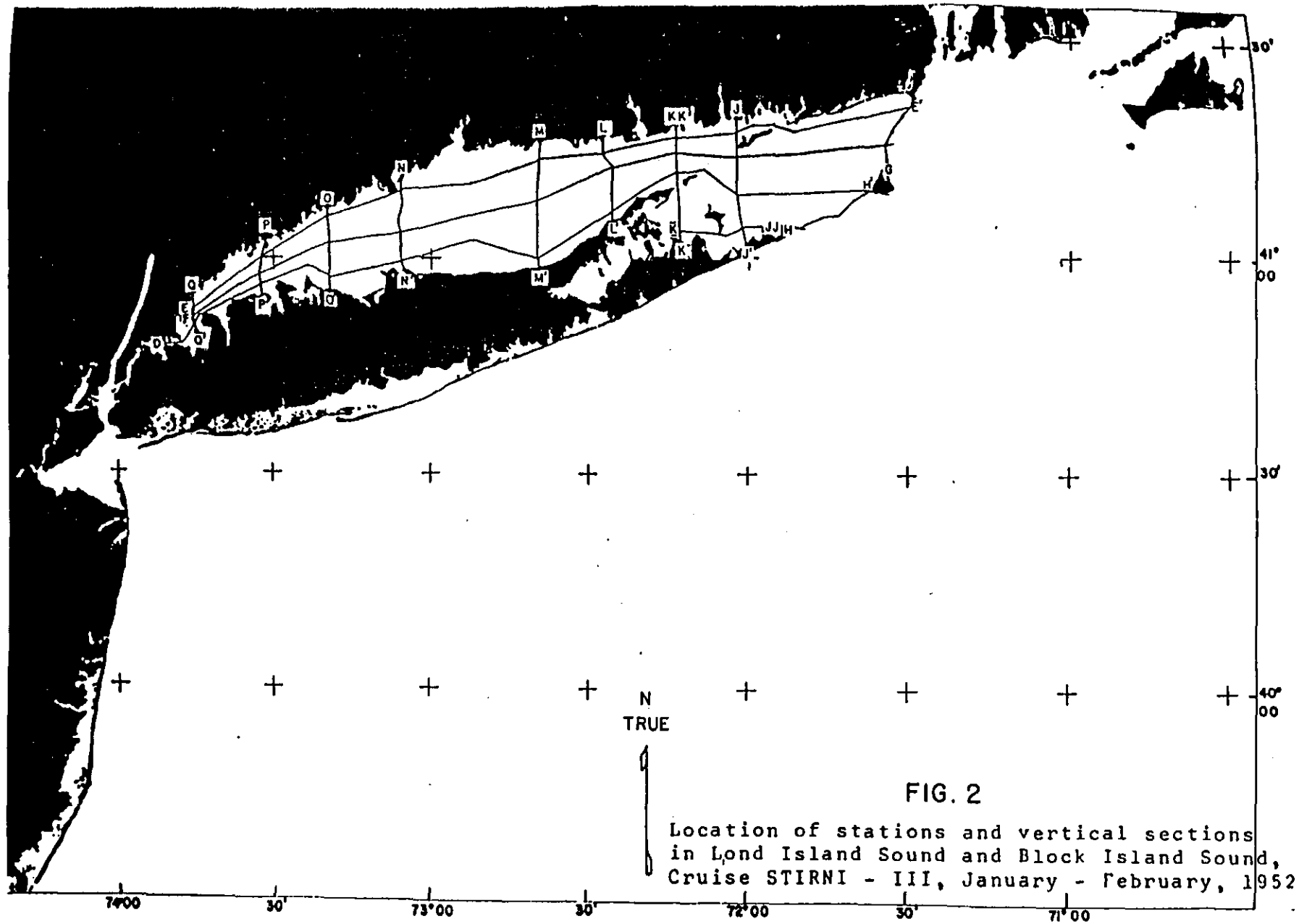
B. Document

C. Computerized

D. Data Base Name

E. Data Products

11. Comments: Data are presented in graphic form in: Doubler, E.
and Avers, J. 1953. A winter survey of oxygen distribution
in Long Island Sound and Block Island Sound. Cruise STIRNI
III. Jan.-Feb. 1952. Status Report No. 24. Cornell Univ.



1526

DATA CHARACTERIZATION (LIS27)
STUDY OF OXYGEN DEPLETION IN WESTERN LONG ISLAND SOUND

1. Organization Contacted:

2. Person Contacted:

3. Telephone No.:

4. Address of Contact:

5. Citation: Holliman, R. (ed.) Environmental Atlas of Block Island and Long Island Sound Waters. New York Ocean Science Laboratory Technical Reports 34, 35, 36.

6. Sample/Survey Type (describe frequency and/or resolution):

A. Station(s):

B. Synoptic Survey: Seasonal/3 years

C. Vertical Resolution:

7. Time Span of Data: From: 70 To: 73

8. Data Study Area: eastern Long Island and Block Island Sound

9. Parameters measured (describe units):

Dissolved Oxygen

Temperature

Salinity ppt

Phytoplankton Pigments

10. Status of Data, Availability, and Cost:

A. Raw on microfiche

B. Document

C. Computerized

D. Data Base Name

E. Data Products

11. Comments: Data are on microfiche in a pocket attached to one of the technical reports.

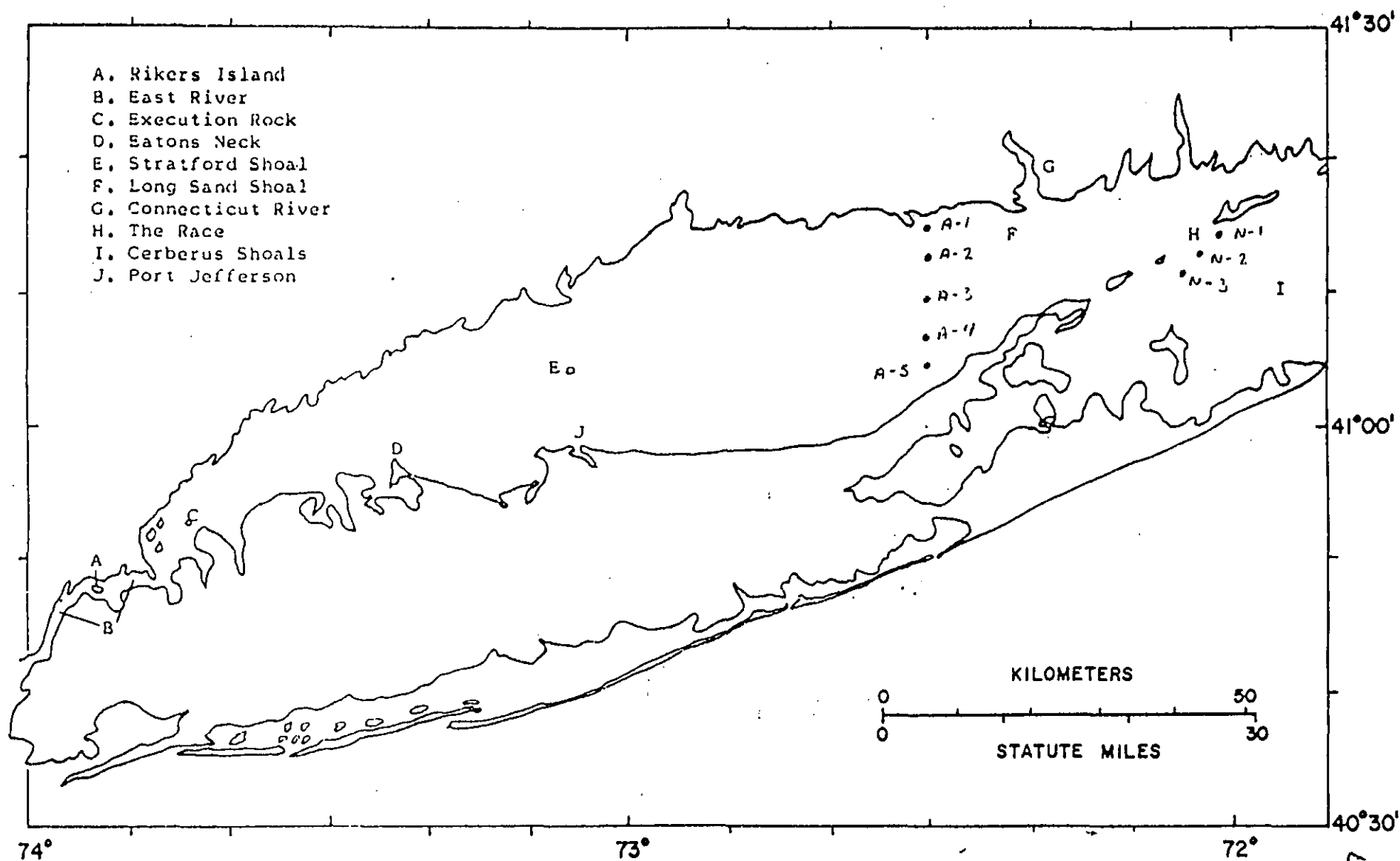


FIGURE 1. GEOGRAPHIC FEATURES OF LONG ISLAND SOUND

4527

DATA CHARACTERIZATION (LIS28)
STUDY OF OXYGEN DEPLETION IN WESTERN LONG ISLAND SOUND

1. Organization Contacted: National Marine Fisheries Service
2. Person Contacted: Dr. Jay O'Reilly
3. Telephone No.: (201) 872-0200 EXT 205
4. Address of Contact: NMFS, Sandy Hook Laboratory,
Highlands, NJ 07732
-
5. Citation: Davids Island Phase-I: A Short-Term Ecological Survey of Western Long Island Sound. Middle Atlantic Coastal Fisheries Center, Informal Report No. 7.

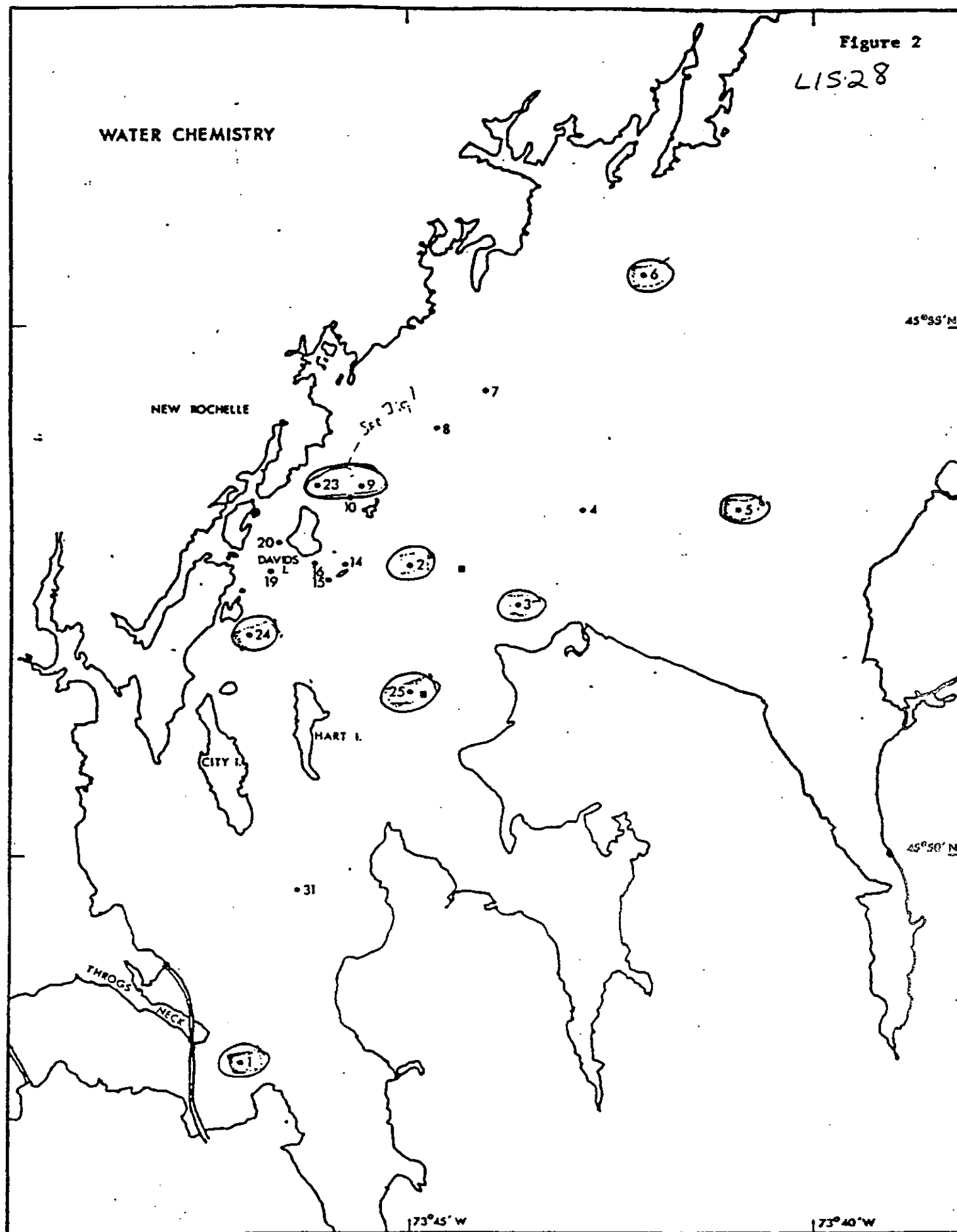
6. Sample/Survey Type (describe frequency and/or resolution):
 - A. Station(s):
 - B. Synoptic Survey: 8 surveys, 9+ sta/survey
 - C. Vertical Resolution: surface, mid-depth, bottom
7. Time Span of Data: From: 04/14/71 To: 09/01/71
8. Data Study Area: western Sound
9. Parameters measured (describe units):

Dissolved Oxygen	ppm
Temperature	degrees C
10. Status of Data, Availability, and Cost:
 - A. Raw
 - B. Document
 - C. Computerized NMFS, System 1032
 - D. Data Base Name
 - E. Data Products
11. Comments: Publication contains graphic presentations of temperature and oxygen.

Figure 2

L1528

WATER CHEMISTRY



DATA CHARACTERIZATION (LIS29)
STUDY OF OXYGEN DEPLETION IN WESTERN LONG ISLAND SOUND

1. Organization Contacted: National Marine Fisheries Service
2. Person Contacted: Dr. Jay O'Reilly
3. Telephone No.: (201) 872-0200 EXT 205
4. Address of Contact: NMFS, Sandy Hook Laboratory,
Highlands, NJ 07732

5. Citation: Reid, R.N., Frame, A.B., Draxler, A.F. 1979. Environmental Baselines in Long Island Sound, 1972-73. National Marine Fisheries Service, NOAA Technical Report NMFS-SSRF 739.

6. Sample/Survey Type (describe frequency and/or resolution):

A. Station(s):

B. Synoptic Survey: 3 surveys

C. Vertical Resolution: surface to bottom

7. Time Span of Data: From: 07/72 To: 09/73

8. Data Study Area: total Long Island Sound

9. Parameters measured (describe units):

Dissolved Oxygen mg/l

Temperature degrees C

Salinity ppt

Nitrate, Nitrite, Ammonium, Urea ug-at/l

10. Status of Data, Availability, and Cost:

A. Raw

B. Document

C. Computerized NMFS, System 1032

D. Data Base Name

E. Data Products

11. Comments: Dates of 3 surveys: July-Aug. 1972, April 1973, and Sept. 1973. Report contains data in graphic form.

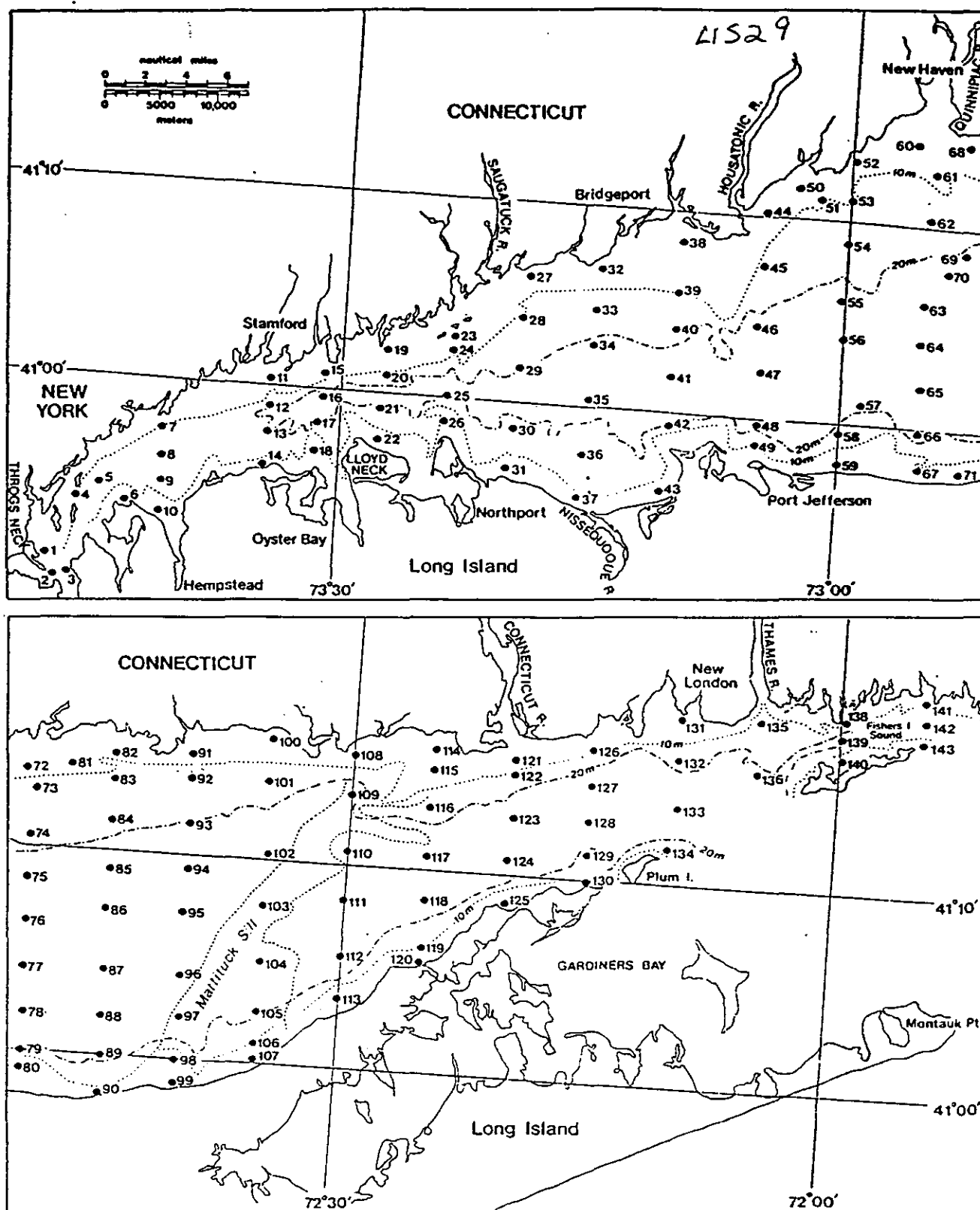


Figure 1.—Sampling pattern in Long Island Sound.

DATA CHARACTERIZATION (LIS30)
STUDY OF OXYGEN DEPLETION IN WESTERN LONG ISLAND SOUND

1. Organization Contacted: NOAA/OAD/Coastal & Estuarine Assessment Branch
2. Person Contacted: Catherine Warsh
3. Telephone No.: (301) 443-8698
4. Address of Contact: Rockville, MD 20850
-
5. Citation: Gottholm, B., Eichelberger, P., Brice, V. 1985. Water Quality Monitoring Project, NEMP 85-03, Cruise and Data Report.
-
6. Sample/Survey Type (describe frequency and/or resolution):
 - A. Station(s):
 - B. Synoptic Survey: one survey, 24 sta
 - C. Vertical Resolution: surface to bottom
7. Time Span of Data: From: 06/13/85 To: 06/14/85
8. Data Study Area: western Long Island Sound
9. Parameters measured (describe units):

Dissolved Oxygen	ml/l
% Oxygen Saturation	%
Temperature	degrees C
Salinity	ppt
10. Status of Data, Availability, and Cost:
 - A. Raw
 - B. Document
 - C. Computerized available on magnetic tape from contact
 - D. Data Base Name
 - E. Data Products
11. Comments:

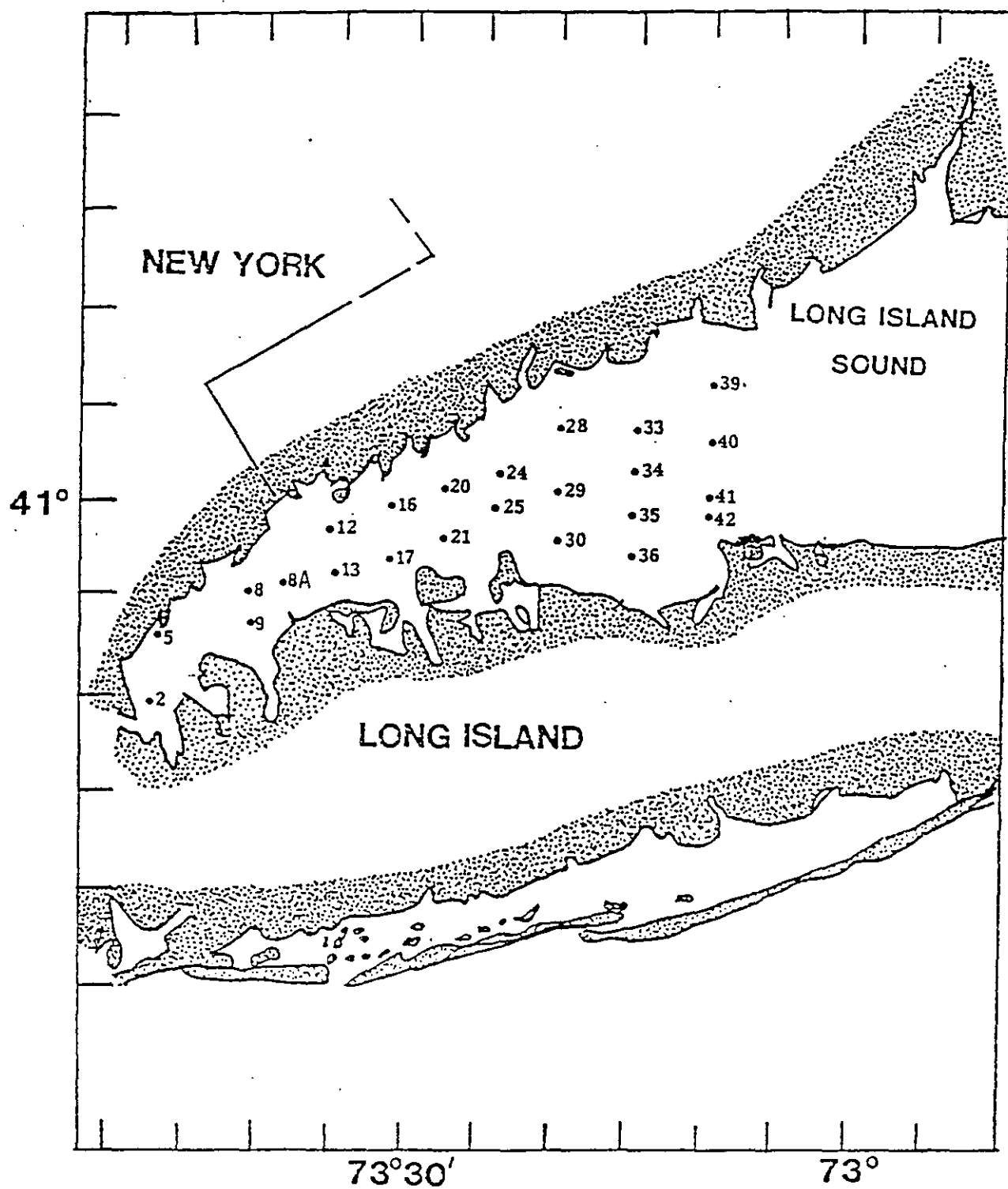


Figure 1A. Western Long Island Sound Station locations

DATA CHARACTERIZATION (LIS31)
STUDY OF OXYGEN DEPLETION IN WESTERN LONG ISLAND SOUND

1. Organization Contacted: Marine Sciences Res. Center. SUNY
2. Person Contacted: Dr. Peter Wevl and Dr. Jerry Schubel
3. Telephone No.: (516) 246-5000
4. Address of Contact: SUNY. Stony Brook. NY 11794

5. Citation: Hardy. C.D. Wevl. P.K. 1971. Distribution of Dissolved Oxygen in the Waters of Western Long Island Sound. Marine Science Research Center, SUNY, Stony Brook. Technical Report No. 11.

6. Sample/Survey Type (describe frequency and/or resolution):

A. Station(s):

B. Synoptic Survey: 4 surveys

C. Vertical Resolution: surface to bottom

7. Time Span of Data: From: 08/07/70 To: 10/07/70

8. Data Study Area: Western Long Island Sound

9. Parameters measured (describe units):

Dissolved Oxygen	ppm
% Oxygen Saturation	%
Temperature	degrees C
Salinity	ppt
Phytoplankton Pigments	mg/m3
Nitrate. Nitrite. Ammonia	um/l
Phosphate	um/l
Secchi Disk	

10. Status of Data, Availability, and Cost:

A. Raw

B. Document

C. Computerized

D. Data Base Name

E. Data Products

Data listing

11. Comments: Dates of 4 surveys: Aug. 7-9, 1970 (Cruise 7011), Aug. 13, 1970 (Cruise 7012), Aug. 14-15, 1970 (Cruise 7013), Oct. 5-7, 1970 (Cruise 7014).
The publication contains graphic presentations of some data. The entries reported on this form reflect the information extracted from the data listings. The data listings for the 4 surveys are held by C. Parker, NOS.

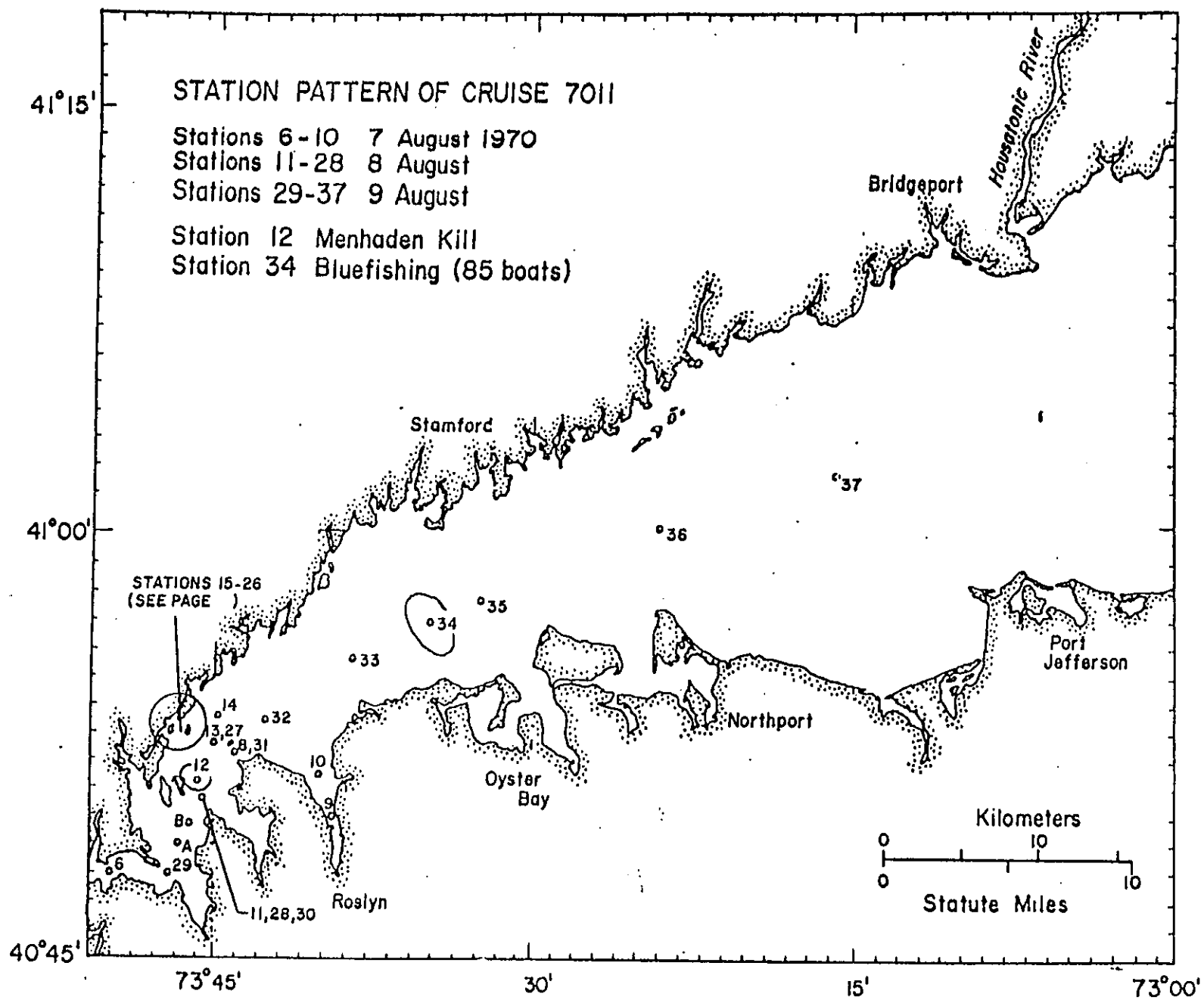


Figure 2.

1531

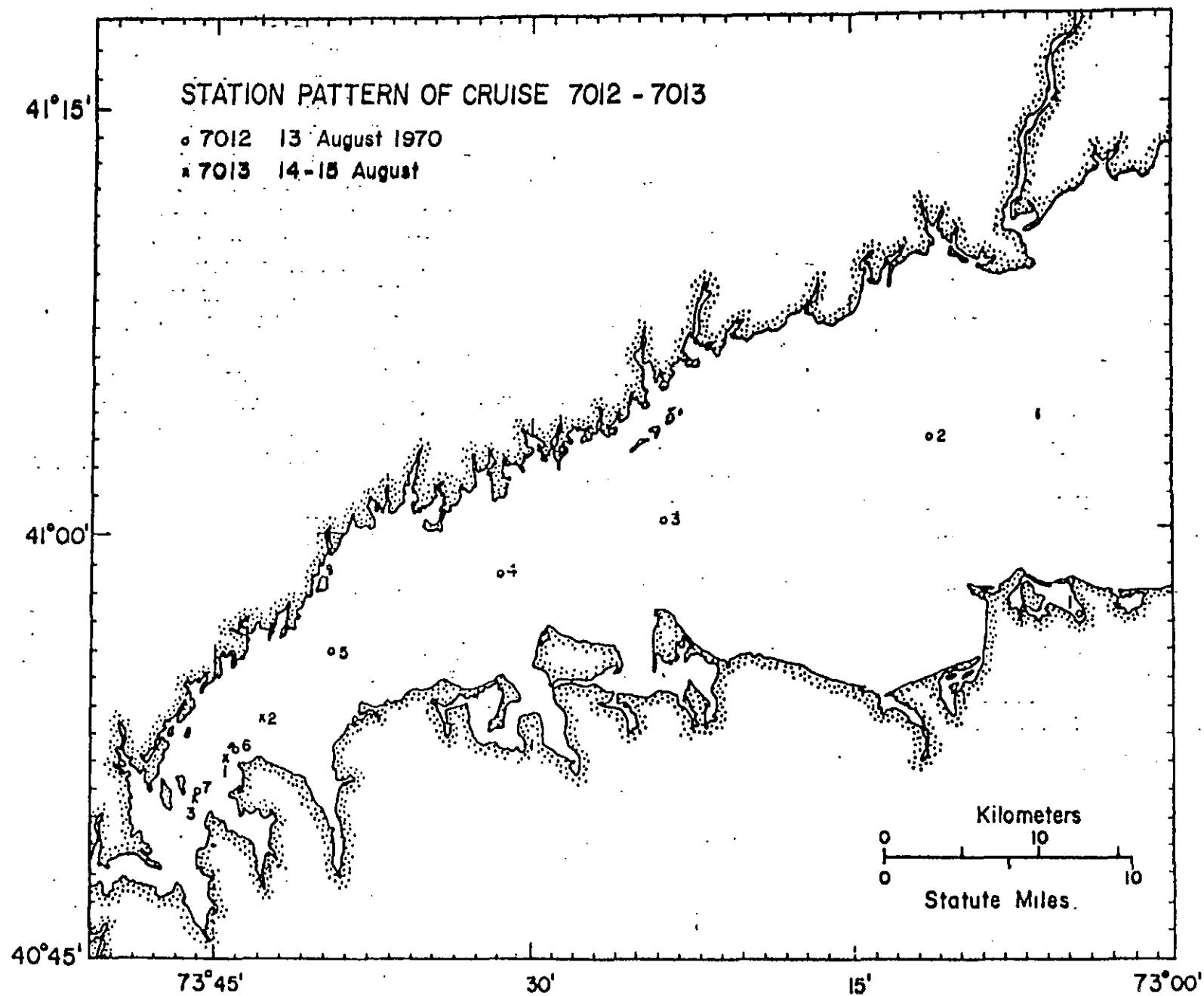


Figure 14

41531

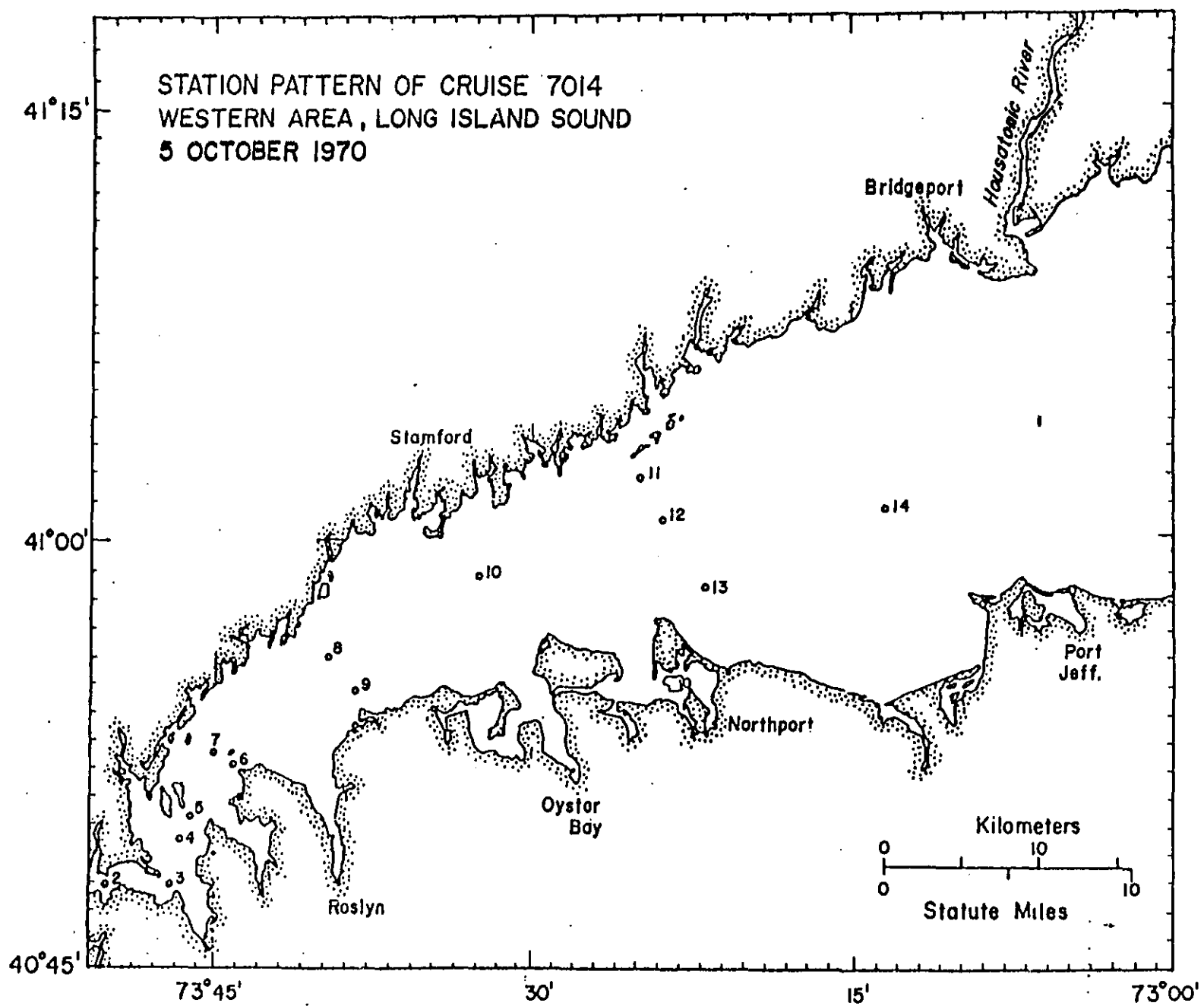


Figure 22

DATA CHARACTERIZATION (LIS32)
STUDY OF OXYGEN DEPLETION IN WESTERN LONG ISLAND SOUND

1. Organization Contacted: Marine Sciences Res. Center. SUNY
2. Person Contacted: Dr. Peter Weyl and Dr. Jerry Schubel
3. Telephone No.: (516) 246-5000
4. Address of Contact: SUNY, Stony Brook, NY 11790

5. Citation: Hardy, C.D. 1972. Hydrographic Data Report: Long Island Sound - 1970. Part II. Marine Sciences Research Center, SUNY. Technical Report No. 13

6. Sample/Survey Type (describe frequency and/or resolution):

A. Station(s):

B. Synoptic Survey: 1 survey

C. Vertical Resolution: surface to bottom

7. Time Span of Data: From: 10/05/70 To: 10/07/70

8. Data Study Area: East-west section through Sound

9. Parameters measured (describe units):

Dissolved Oxygen	ppm
Temperature	degrees C
Salinity	ppt
Phytoplankton Pigments	mg/m3
Nitrate, Nitrite, Ammonia	um/l
Phosphate	um/l
Sacchi Disk	

10. Status of Data. Availability, and Cost:

A. Raw

B. Document

C. Computerized

D. Data Base Name

E. Data Products Data listing

11. Comments: The entries on this form reflect the information contained on the data listing for cruise 7014. The data listing is held by C. Parker, NOS. The publication presents some of the data in graphic form.

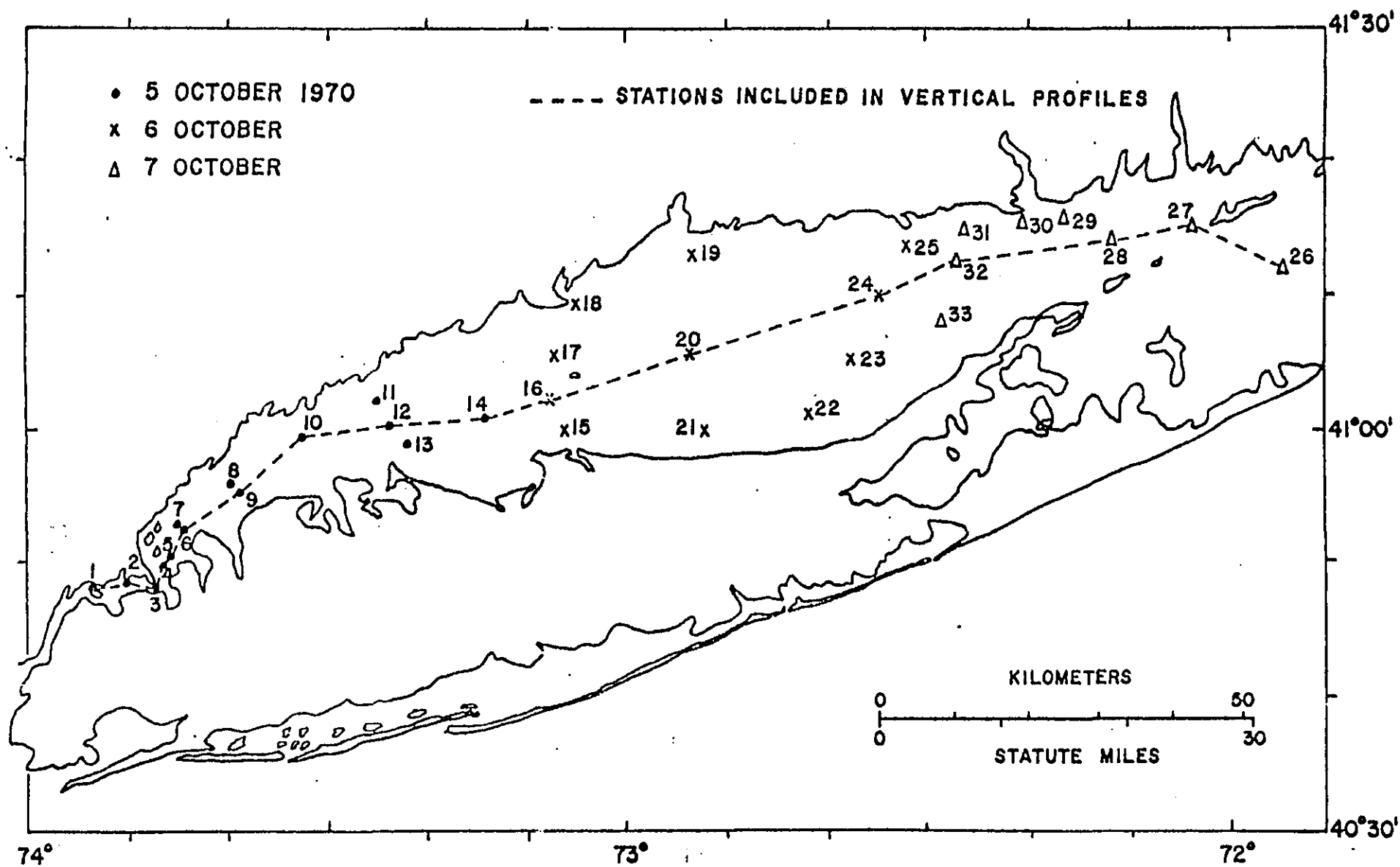


FIGURE 2. STATION LOCATIONS FOR CRUISE 7014

DATA CHARACTERIZATION (LIS33)
STUDY OF OXYGEN DEPLETION IN WESTERN LONG ISLAND SOUND

1. Organization Contacted: Marine Sciences Res. Center, SUNY
2. Person Contacted: Dr. Jerry Schubel
3. Telephone No.: (516) 246-5000
4. Address of Contact: SUNY, Stony Brook, NY 11794

5. Citation: Gross, G.M. Davies, D., Lin, P.M., Loeffler, W.
1972. Survey of Water Quality and Sediments in Six North Shore
Bays, Nassau and Suffolk Counties, Long Island, NY. Marine
Sciences Research Center, SUNY. Technical Report No. 15.

6. Sample/Survey Type (describe frequency and/or resolution):

A. Station(s):

B. Synoptic Survey:

once

C. Vertical Resolution:

surface

7. Time Span of Data: From: 05/71 To: 12/71

8. Data Study Area: Little Neck Bay, Manhasset Bay, Hempstead
Harbor, Huntington Harbor, Port Jefferson
Harbor, Mount Sinai Harbor, NY

9. Parameters measured (describe units):

Oxygen Saturation

%

Temperature

degrees C

Salinity

psu

Phytoplankton Pigments

Nitrate, Ammonia

ug-at/l

10. Status of Data, Availability, and Cost:

A. Raw

B. Document

C. Computerized

D. Data Base Name

E. Data Products

DATA CHARACTERIZATION (LIS34)
STUDY OF OXYGEN DEPLETION IN WESTERN LONG ISLAND SOUND

1. Organization Contacted: Marine Sciences Res. Center. SUNY
2. Person Contacted: Dr. Jerry Schubel
3. Telephone No.: (516) 246-5000
4. Address of Contact: SUNY, Stony Brook. NY 11794

5. Citation: .

6. Sample/Survey Type (describe frequency and/or resolution):

A. Station(s):

B. Synoptic Survey: 2 surveys

C. Vertical Resolution: Surface to bottom

7. Time Span of Data: From: 01/70 To: 07/73

8. Data Study Area: East-west section through Sound

9. Parameters measured (describe units):

Dissolved Oxygen ug-at/l

Oxygen Saturation %

Temperature degrees C

Salinity ppt

Nitrate, Nitrite, Ammonia ug-at/l

Phosphate ug-at/l

Secchi Disk

10. Status of Data. Availability, and Cost:

A. Raw

B. Document

C. Computerized

D. Data Base Name

E. Data Products Data listings

11. Comments: Dates of surveys: Jan. 28-29, 1970 (Cruise 7001)

and July 28-29, 1973 (Cruise 7307). No station pattern is available for the 1973 cruise. Data from the Jan. 1970 cruise are reported in LIS35.

Some of the entries reported on this form reflect the information extracted from data listings. The data listing for cruise 7307 is held by C. Parker, NOS.

Some data appear in Bowman, M.J. 1977. Nutrient Distribution and Transport in Long Island Sound. Estuarine Coastal Marine Science 5:531-548.

DATA CHARACTERIZATION (LIS35)
STUDY OF OXYGEN DEPLETION IN WESTERN LONG ISLAND SOUND

1. Organization Contacted: Marine Sciences Res. Center. SUNY
2. Person Contacted: Dr. Peter Weyl and Dr. Jerry Schubel
3. Telephone No.: (516) 246-5000
4. Address of Contact: SUNY, Stony Brook, NY 11794

5. Citation: Hardy, C.D., Weyl, P.K. 1970. Hydrographic Data Report: Long Island Sound - 1970. Marine Sciences Research Center. SUNY, Stony Brook. Technical Report No. 6.

6. Sample/Survey Type (describe frequency and/or resolution):

A. Station(s):

B. Synoptic Survey: 5 surveys/4 months

C. Vertical Resolution: surface (Jan.-Mar). surface to near bottom (April)

7. Time Span of Data: From: 01/70 To: 04/70

8. Data Study Area: East-west section through Sound

9. Parameters measured (describe units):

Dissolved Oxygen	ug-at/l
Temperature	degrees C
Salinity	ppt
Phytoplankton Pigments	mg/m3
Nitrate, Nitrite, Ammonia	ug-at/l
Phosphate	ug-at/l
Secchi Disk	

10. Status of Data, Availability, and Cost:

A. Raw

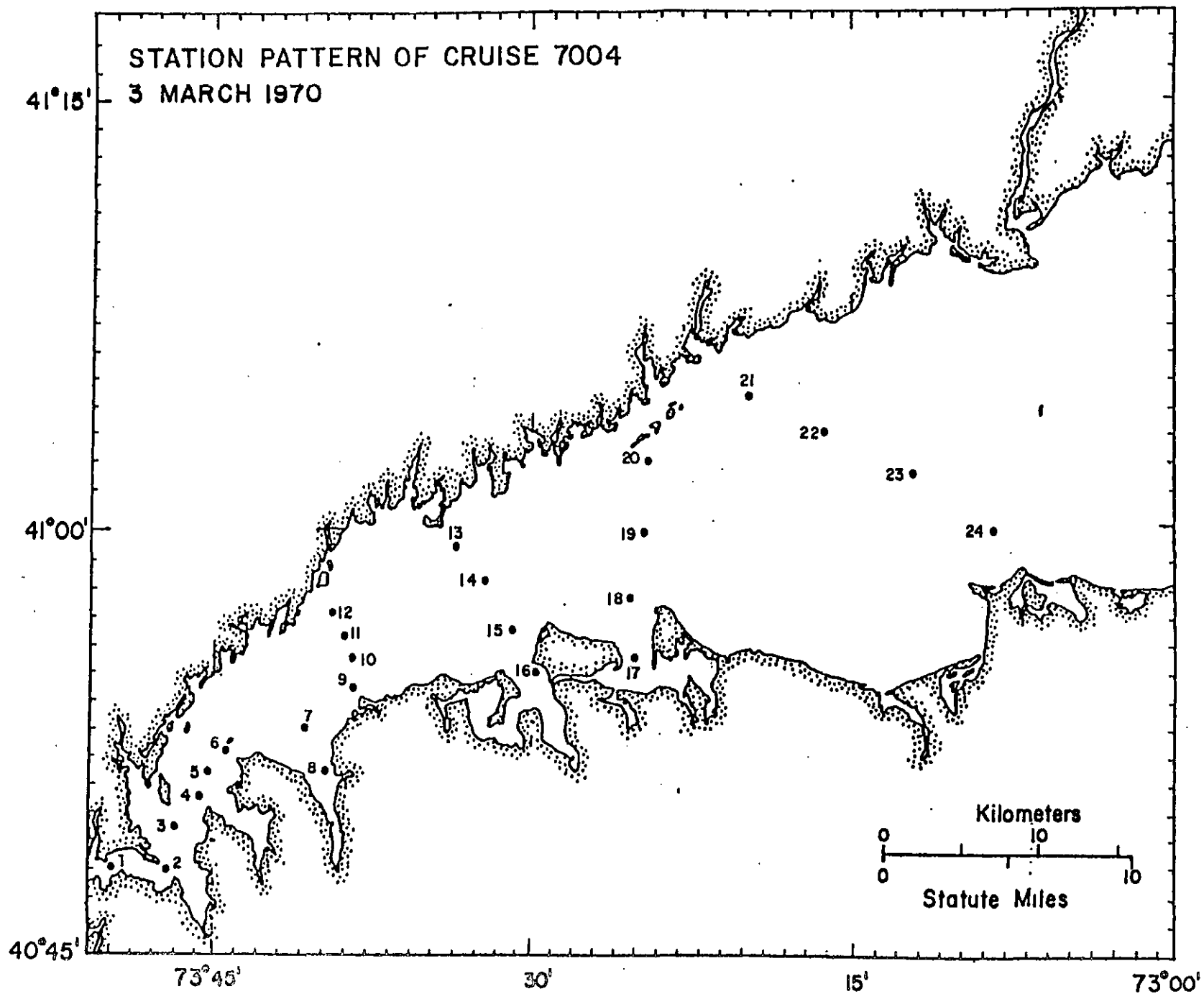
B. Document

C. Computerized

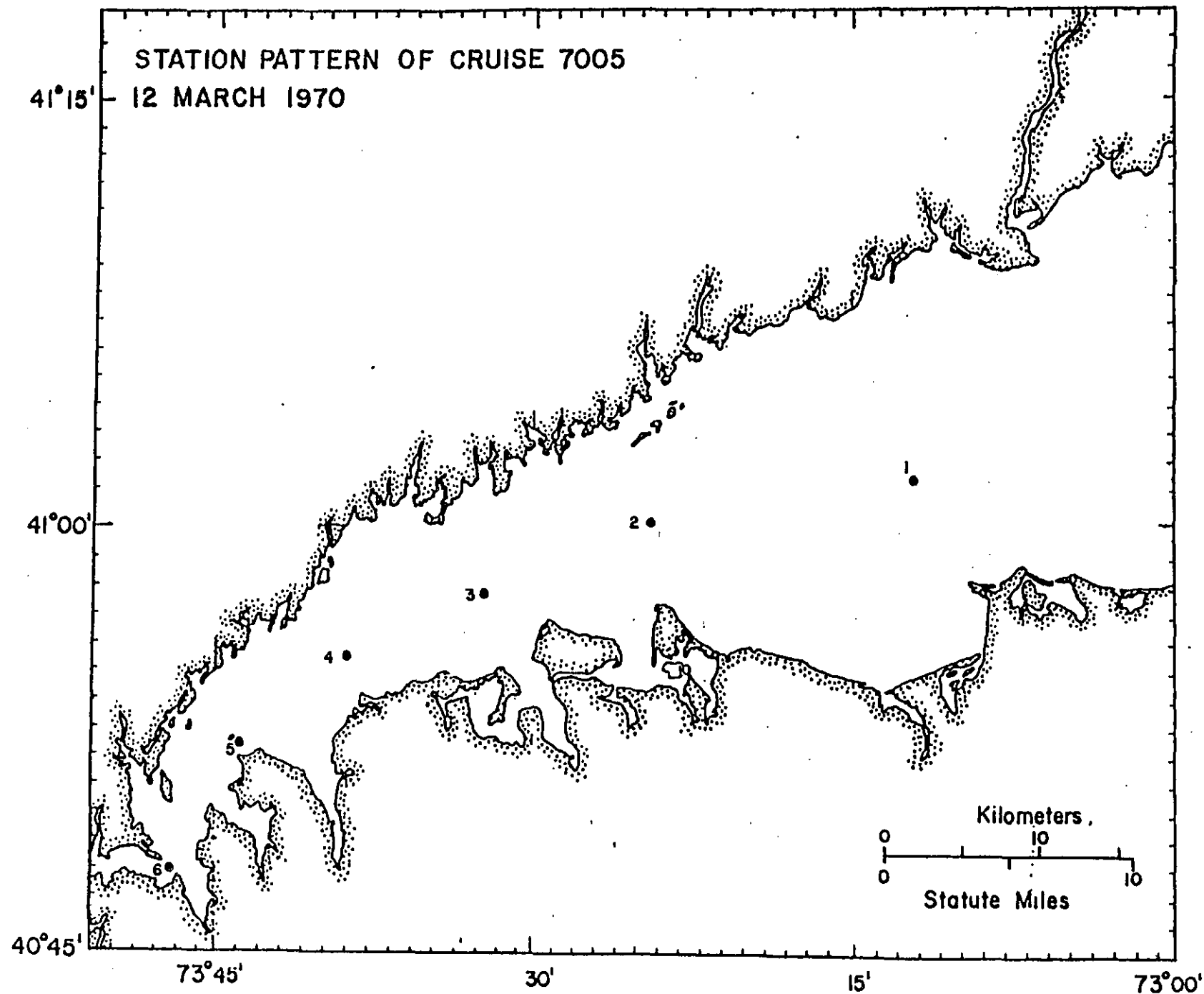
D. Data Base Name

E. Data Products

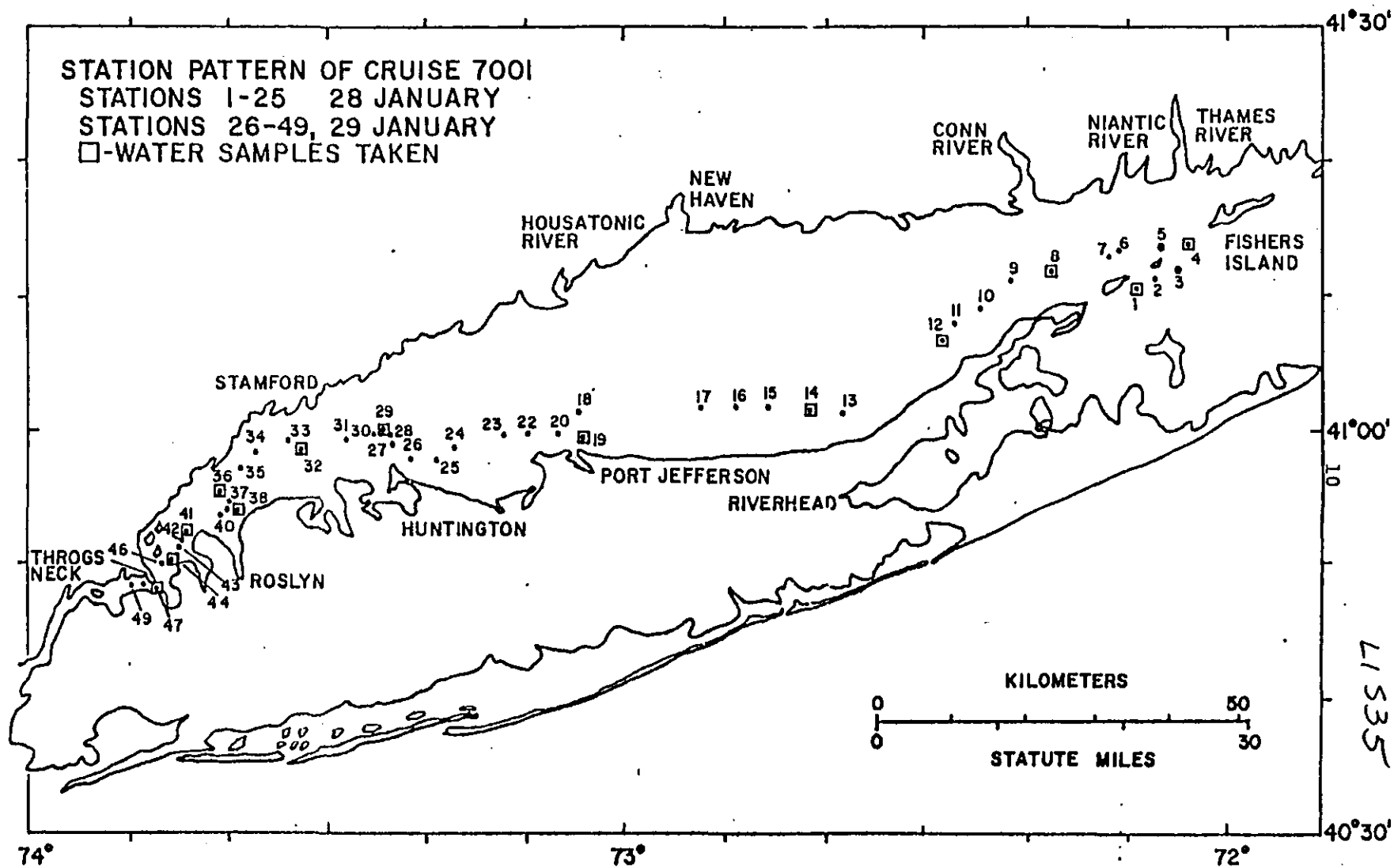
11. Comments: Dates of surveys: Jan. 28-29, 1970 (Cruise 7001).
Feb. 25, 1970 (Cruise 7003), Mar. 3, 1970 (Cruise 7004).
March 12, 1970 (Cruise 7005), Apr. 21, 1970 (Cruise 7009).
The publication contains graphic presentations of the data.



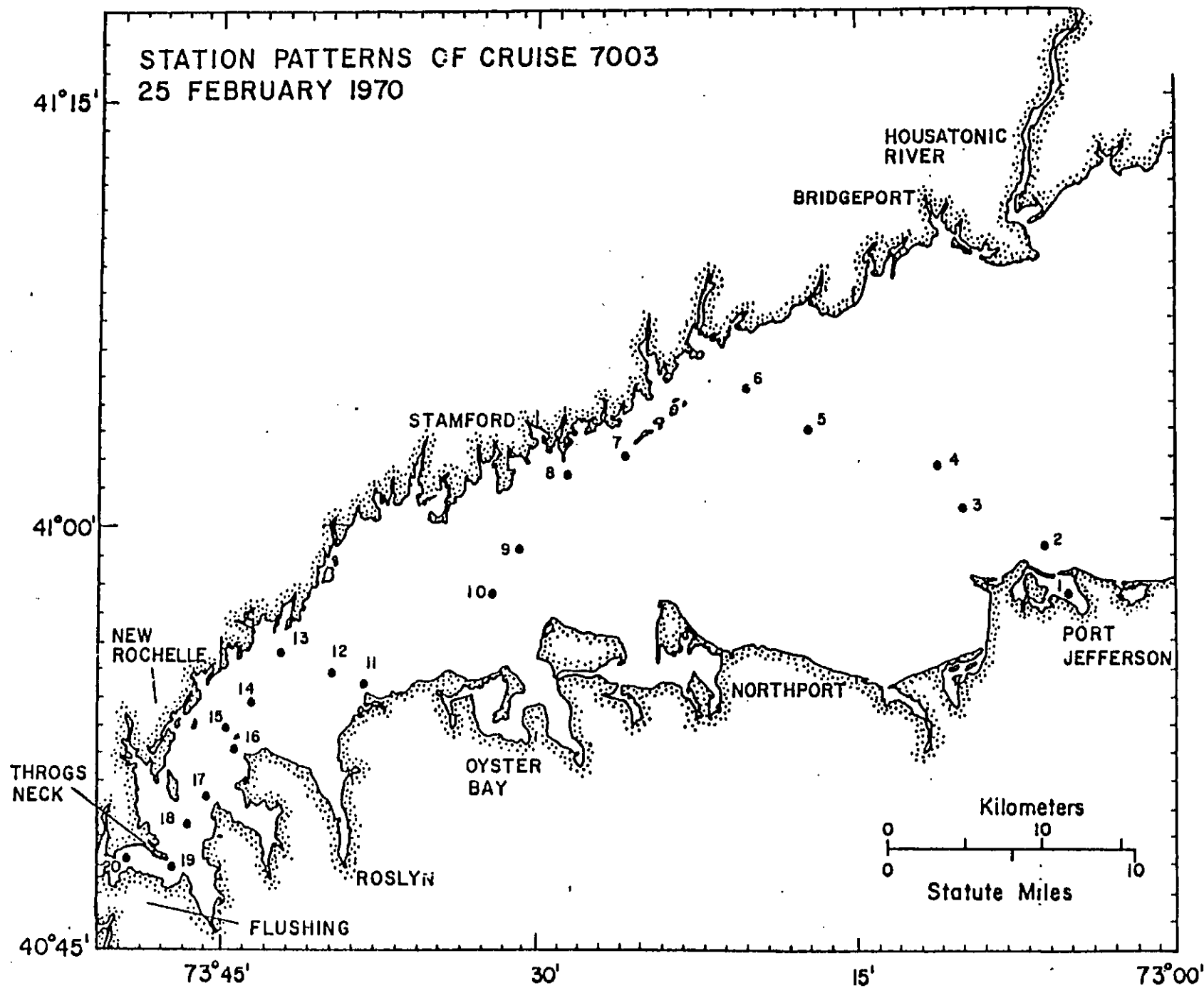
41535



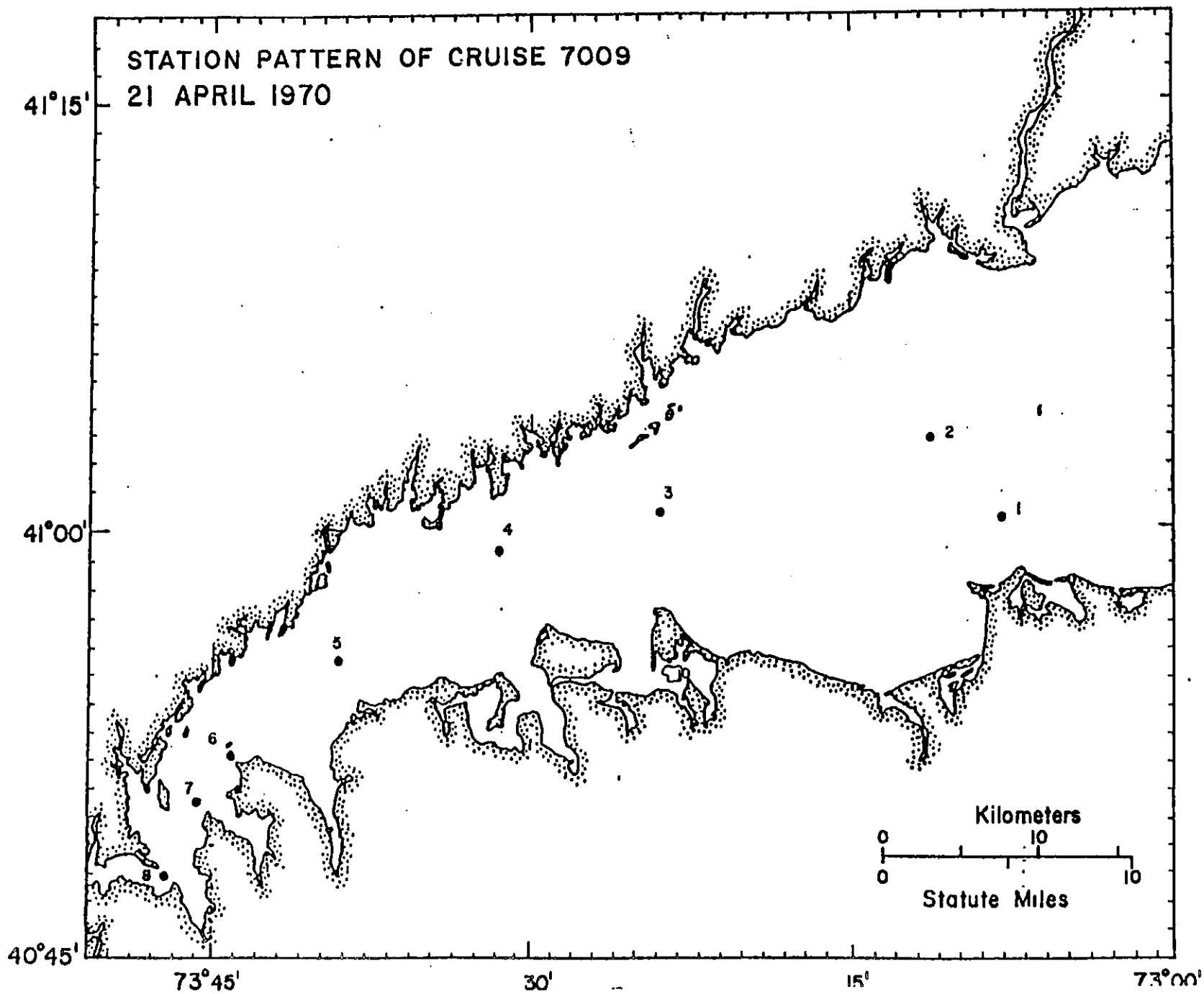
58517



STATION PATTERNS OF CRUISE 7003
25 FEBRUARY 1970



41535



L1535

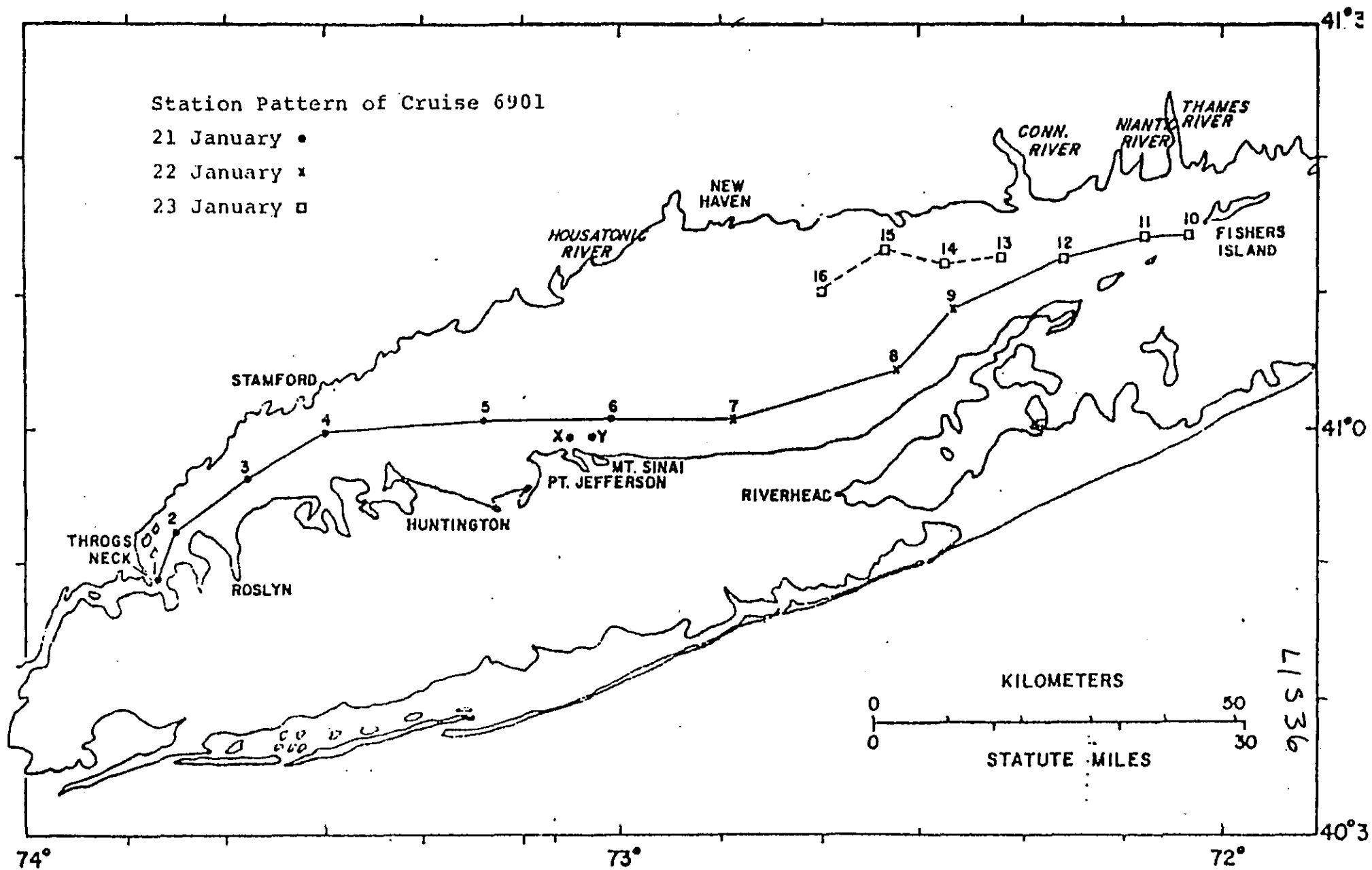
DATA CHARACTERIZATION (LIS36)
STUDY OF OXYGEN DEPLETION IN WESTERN LONG ISLAND SOUND

1. Organization Contacted: Marine Sciences Res. Center, SUNY
 2. Person Contacted: Dr. Peter Wevl and Dr. Jerry Schubel
 3. Telephone No.: (516) 246-5000
 4. Address of Contact: SUNY, Stony Brook, NY 11794
-
5. Citation: Hardy, C.D. 1970. Hydrographic Data Report: Long Island Sound - 1969. Marine Sciences Research Center, SUNY, Stony Brook, NY. Technical Report No. 4.
-
6. Sample/Survey Type (describe frequency and/or resolution):
 - A. Station(s):
 - B. Synoptic Survey: 3 surveys
 - C. Vertical Resolution: surface to bottom
 7. Time Span of Data: From: 01/21/69 To: 10/11/69
 8. Data Study Area: East-west section through Sound
 9. Parameters measured (describe units):

Dissolved Oxygen	ug-at/l (Oct. only)
% Oxygen Saturation	%
Temperature	degrees C
Salinity	opt
Phytoplankton Pigments	mg/m3
Nitrate, Nitrite	ug-at/l
Phosphate	ug-at/l
Secchi Disk	
 10. Status of Data, Availability, and Cost:
 - A. Raw
 - B. Document
 - C. Computerized
 - D. Data Base Name

E. Data Products

11. Comments: Dates of surveys: Jan. 21-23, 1969 (Cruise 6901),
July 1-3, 1969 (Cruise 6902), Oct. 6-11, 1969 (Cruise 6903).

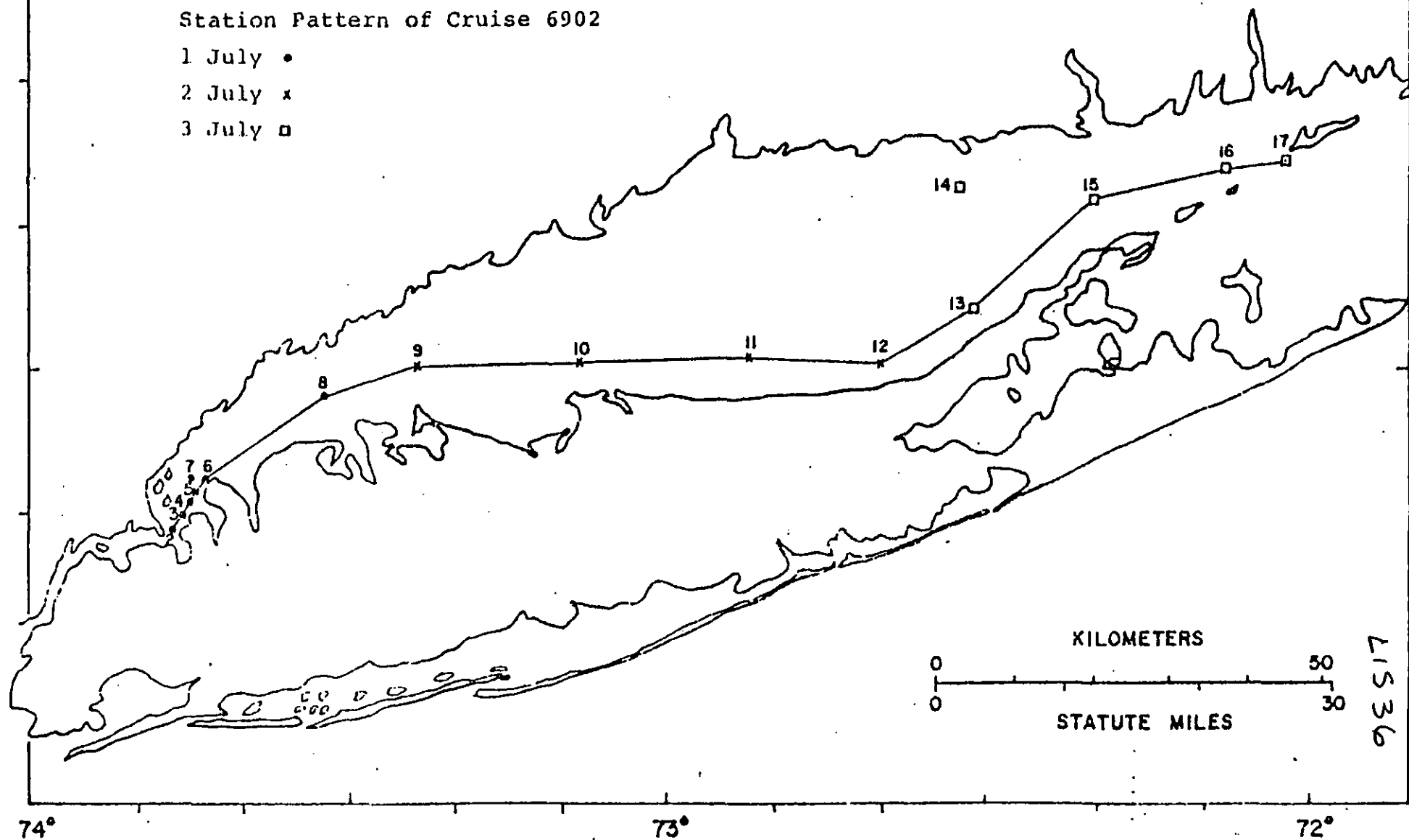


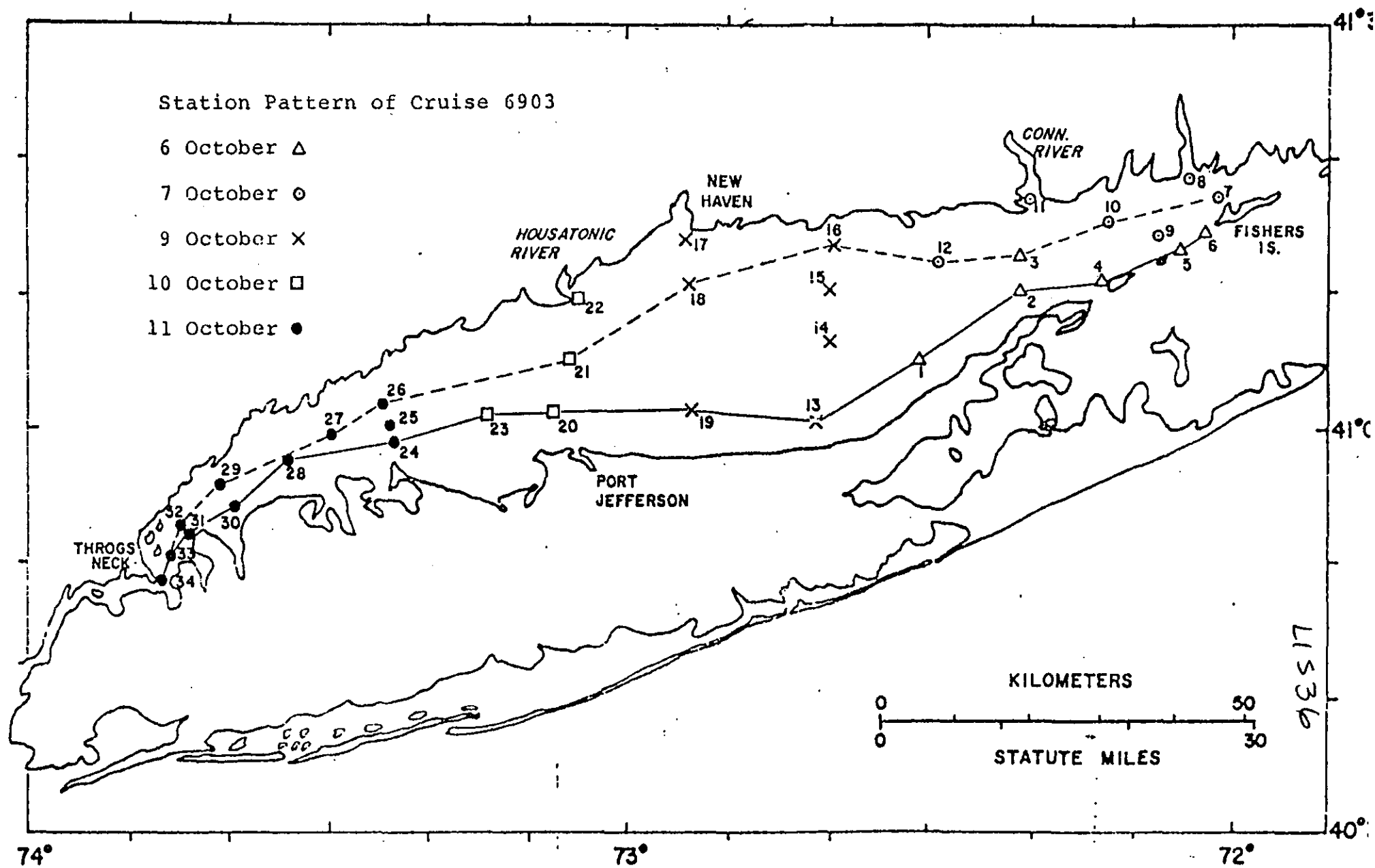
Station Pattern of Cruise 6902

1 July •

2 July x

3 July □





DATA CHARACTERIZATION (LIS37)
STUDY OF OXYGEN DEPLETION IN WESTERN LONG ISLAND SOUND

1. Organization Contacted: Marine Science Res. Center, SUNY

2. Person Contacted: Dr. Jerry Schubel

3. Telephone No.: (516) 246-5000

4. Address of Contact: SUNY, Stony Brook, NY 11794

5. Citation: Williams, G.C. et al. 1971. Studies on the Effects of a Steam Electric Generating Plant on the Marine Environment at Northport, New York. Marine Sciences Research Center, SUNY. Technical Report No. 9, pp. 116-118.

6. Sample/Survey Type (describe frequency and/or resolution):

A. Station(s): 3-4 sites

B. Synoptic Survey: 5 sampling periods

C. Vertical Resolution: surface to bottom

7. Time Span of Data: From: 08/69 To: 09/69

8. Data Study Area: Northport LILCO Plant

9. Parameters measured (describe units):

Dissolved Oxygen

% Oxygen Saturation %

Temperature degrees C

10. Status of Data, Availability, and Cost:

A. Raw

B. Document

C. Computerized

D. Data Base Name

E. Data Products

11. Comments: Approximate position 40 55.50' N, 73 20.60' W

DATA CHARACTERIZATION (LIS38)
STUDY OF OXYGEN DEPLETION IN WESTERN LONG ISLAND SOUND

1. Organization Contacted: Marine Sciences Res. Center. SUNY
2. Person Contacted: Dr. Jerry Schubel
3. Telephone No.: (516) 246-5000
4. Address of Contact: SUNY. Stony Brook. NY 11794

5. Citation: Hardy, C.D. 1972. Movement and Quality of Long Island Waters. 1971. Marine Sciences Research Center, SUNY. Technical Report No. 17.

6. Sample/Survey Type (describe frequency and/or resolution):

A. Station(s):

B. Synoptic Survey: 2 surveys

C. Vertical Resolution: surface to bottom

7. Time Span of Data: From: 04/09/71 To: 08/12/71

8. Data Study Area: East-west and north-south sections through Sound

9. Parameters measured (describe units):

Dissolved Oxygen	ppm
% Oxygen Saturation	%
Temperature	degrees C
Salinity	ppt
Phytoplankton Pigments	mg/m3
Nitrate, Nitrite, Ammonia	um/l
Urea	um/l
Orthophosphate	um/l
Secchi Disk	

10. Status of Data. Availability, and Cost:

A. Raw

B. Document

C. Computerized

D. Data Base Name

E. Data Products

Data listings

11. Comments: Dates of surveys: Apr. 9-12, 1971 (Cruise 7101), Aug. 9-12, 1971 (Cruise 7102). The publication contains graphic presentations of some data.
The entries reported on this form reflect information obtained from the data listings. The data listings for the 2 cruises are held by C. Parker. NOS.

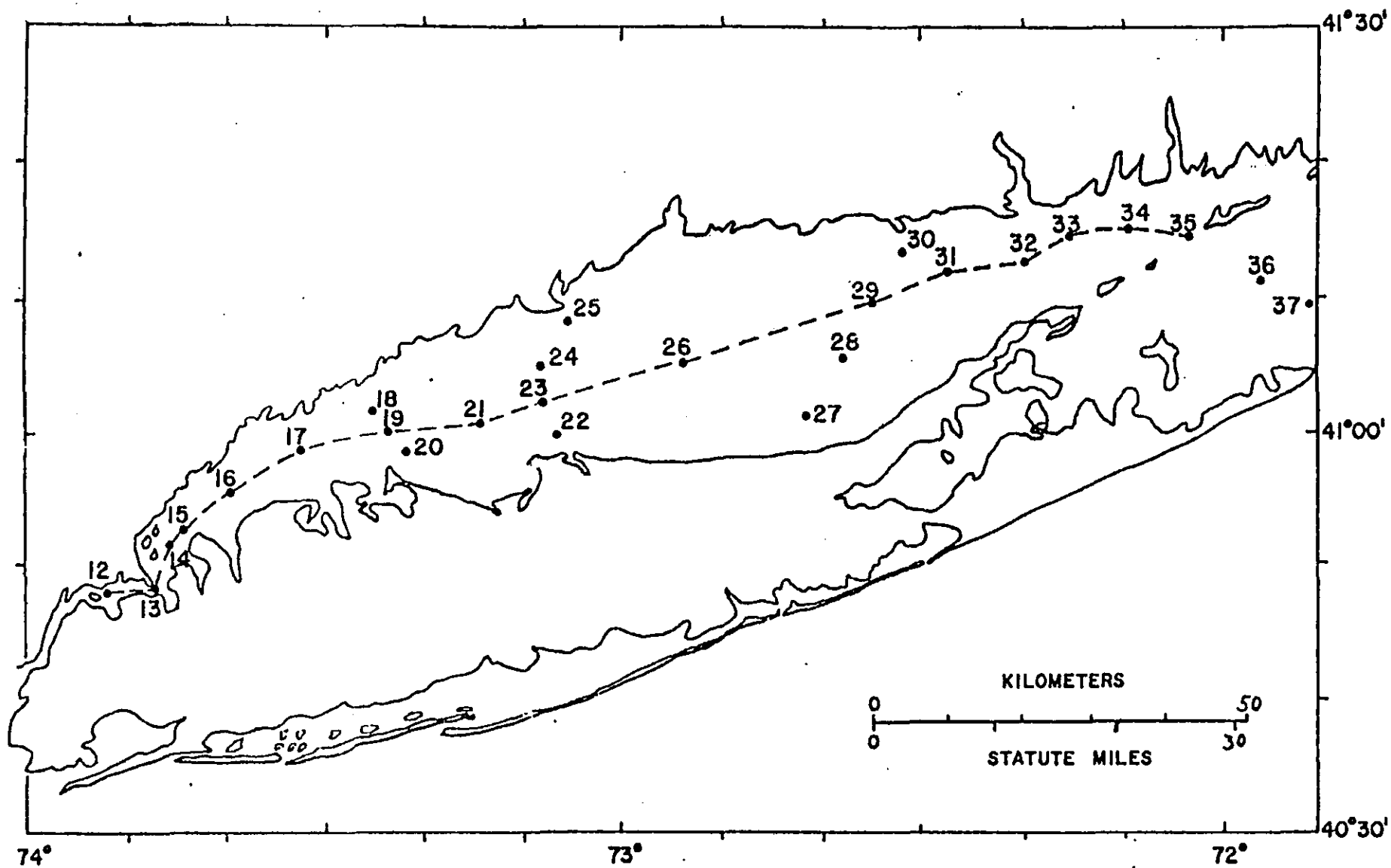


Fig. 3. Station locations of Cruise 7101, 6-16 April 1971. The line shows the location of profiles.

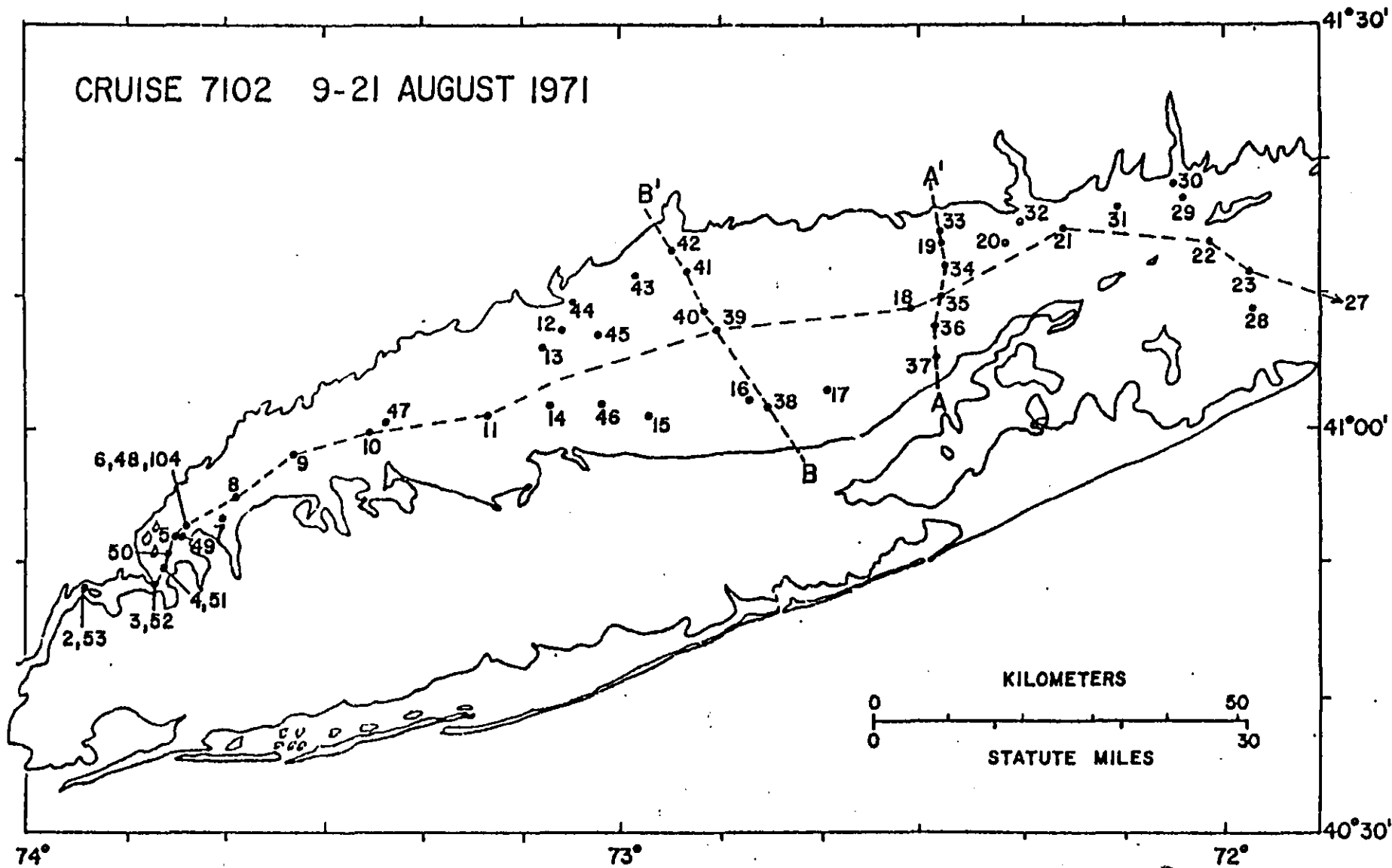


Fig. 6. Station locations of Cruise 7102, 9-21 August 1971.
The line shows profile locations.

DATA CHARACTERIZATION (LIS39)
STUDY OF OXYGEN DEPLETION IN WESTERN LONG ISLAND SOUND

1. Organization Contacted:

2. Person Contacted:

3. Telephone No.:

4. Address of Contact:

5. Citation: Hazen and Sawyer. P.C. Technical Review of the Interstate Sanitation Commission Report on Dissolved Oxygen Assimilative Capacity in the New York Harbor Complex. Prepared for the New York City Dept. of Environmental Protection. June 1983.

6. Sample/Survey Type (describe frequency and/or resolution):

A. Station(s): 3

B. Synoptic Survey:

C. Vertical Resolution: top and bottom

7. Time Span of Data: From: 75 To: 81

8. Data Study Area: western Long Island Sound

9. Parameters measured (describe units):

Dissolved Oxygen mg/l

10. Status of Data. Availability, and Cost:

A. Raw

B. Document

C. Computerized

D. Data Base Name

E. Data Products

11. Comments: Long-term summaries in graphic form.

DATA CHARACTERIZATION (LIS40)
STUDY OF OXYGEN DEPLETION IN WESTERN LONG ISLAND SOUND

1. Organization Contacted:
2. Person Contacted:
3. Telephone No.:
4. Address of Contact:

5. Citation: Marine Sciences Research Center, SUNY, 1978. Aquatic Disposal Field Investigations, Eatons Neck Disposal Site, Long Island Sound. Appendix B: Water-Quality Parameters and Physicochemical Sediment Parameters. Final Report. Dredged Material Research Program, U.S. Army Engineer, Technical Report D-77-6.

6. Sample/Survey Type (describe frequency and/or resolution):

A. Station(s):

B. Synoptic Survey:

26 sta., 7 times

C. Vertical Resolution:

Surface to bottom, every 4-6 m

7. Time Span of Data: From: 10/30/74

To: 05/29/75

8. Data Study Area:

Eatons Neck Disposal Site, NY

9. Parameters measured (describe units):

Dissolved Oxygen

mg/l

Temperature

degrees C

Phytoplankton Pigments

mg/m³

Nitrate, Nitrite, Ammonia

um/l

Urea

Phosphate

um/l

Total Organic Carbon

Silicic Acid

10. Status of Data. Availability, and Cost:

A. Raw

B. Document

Available from NTIS

C. Computerized

D. Data Base Name

E. Data Products

11. Comments: Report contains data in graphic form only.

L1540

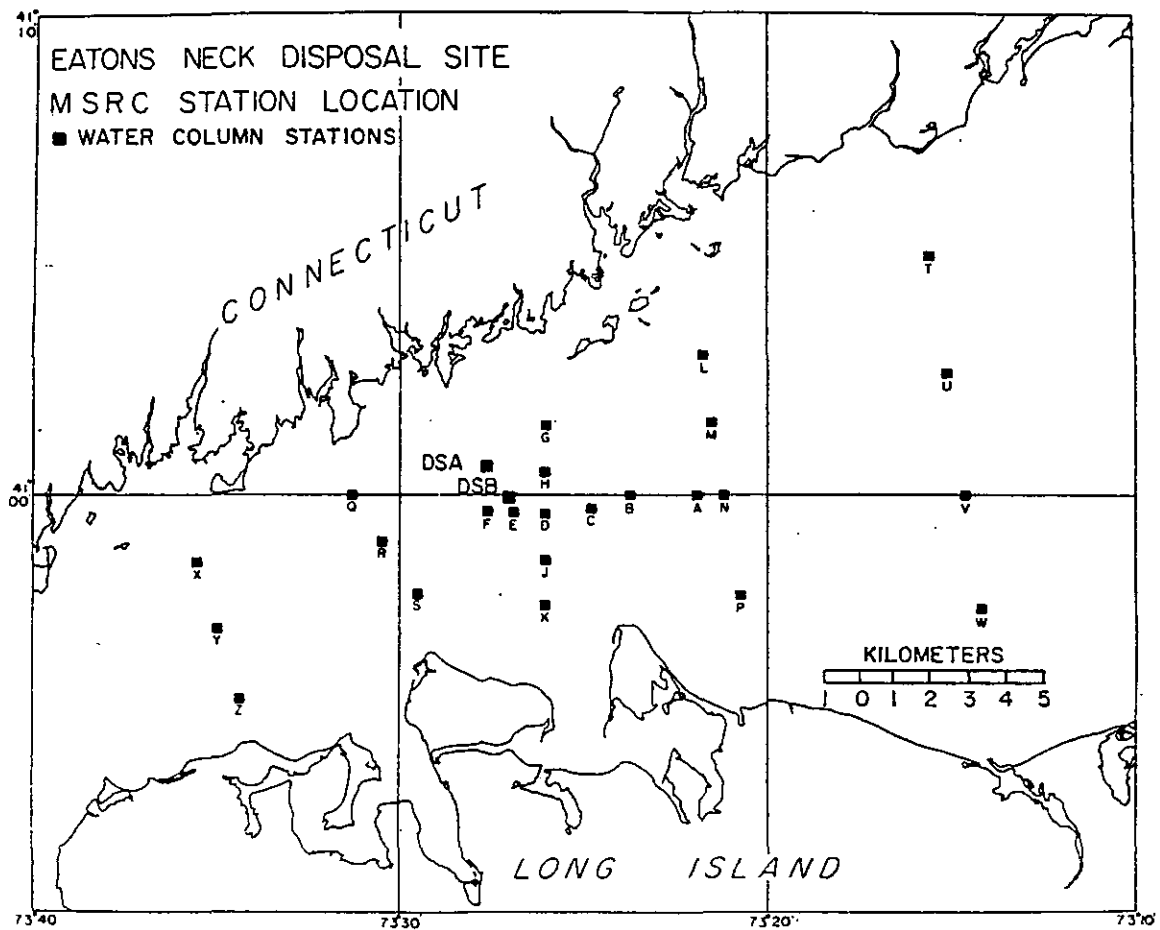


Figure 2. Location of water column stations

DATA CHARACTERIZATION (LIS42)
STUDY OF OXYGEN DEPLETION IN WESTERN LONG ISLAND SOUND

1. Organization Contacted: United Illuminating Company
2. Person Contacted: Dr. David Damer
3. Telephone No.: (203) 787-7778
4. Address of Contact: 80 Tupples St., New Haven, CT 06506
- 5. Citation: Normandeau Associates, Inc. 1973. Bridgeport Harbor Ecological Studies, 1971-1972. Biological and Hydrographic Study Reports.

- 6. Sample/Survey Type (describe frequency and/or resolution):
 - A. Station(s):
 - B. Synoptic Survey: 6 surveys
 - C. Vertical Resolution: surface to bottom
- 7. Time Span of Data: From: 07/71 To: 06/72
- 8. Data Study Area: Bridgeport Harbor, CT
- 9. Parameters measured (describe units):

Dissolved Oxygen

Temperature

Salinity
- 10. Status of Data, Availability, and Cost:
 - A. Raw
 - B. Document
 - C. Computerized
 - D. Data Base Name
 - E. Data Products
- 11. Comments: Dates of 6 surveys: Jul. 13-16, 1971; Nov. 17-19, 1971; May 24-25, 1972; June 1, 6, 7, 1972. Station locations are poorly documented in report.

A. Raw

B. Document

C. Computerized

D. Data Base Name

E. Data Products

11. Comments:

DATA CHARACTERIZATION (LIS44)
STUDY OF OXYGEN DEPLETION IN WESTERN LONG ISLAND SOUND

1. Organization Contacted: Conn. Dept. Environ. Protection
2. Person Contacted: Mr. Paul Stacey
3. Telephone No.: (203) 566-2588
4. Address of Contact: 225 Washington St., Hartford, CT 06106

5. Citation: State of Connecticut, Dept. of Environmental Protection, Water Compliance Unit. New Haven Harbor Survey, July 1974.

6. Sample/Survey Type (describe frequency and/or resolution):

- A. Station(s): 22 sta. sampled 6 times
B. Synoptic Survey: 2-day survey
C. Vertical Resolution:

7. Time Span of Data: From: 07/29/74 To: 07/30/74
8. Data Study Area: New Haven Harbor, CT

9. Parameters measured (describe units):

Dissolved Oxygen	mg/l
Temperature	degrees C
Salinity	psu
Nitrate, Nitrite, Ammonia	mg/l
Total Organic Carbon	mg/l

10. Status of Data, Availability, and Cost:

- A. Raw
B. Document
C. Computerized See comments
D. Data Base Name
E. Data Products

11. Comments: Data are held in automated form by Conn. Dept. Environmental Protection. The report presents mean values of parameters listed.

DATA CHARACTERIZATION (LIS45)
STUDY OF OXYGEN DEPLETION IN WESTERN LONG ISLAND SOUND

1. Organization Contacted: Conn. Dept. Environ. Protection
2. Person Contacted: Mr. Paul Stacey
3. Telephone No.: (203) 566-2588
4. Address of Contact: 225 Washington St., Hartford, CT 06106
5. Citation: State of Connecticut. Dept. of Environmental Protection, Water Compliance Unit. Water Quality Analysis of Stamford Harbor, August 1985.
6. Sample/Survey Type (describe frequency and/or resolution):
 - A. Station(s): 7 sta. repeated 8 times
 - B. Synoptic Survey: 2-day survey
 - C. Vertical Resolution: surface, mid, bottom
 - 7. Time Span of Data: From: 08/06/85 To: 08/07/85
 - 8. Data Study Area: Stamford Harbor, CT
 - 9. Parameters measured (describe units):
 - Dissolved Oxygen mg/l
 - Temperature degrees C
 - Salinity opt
 - 10. Status of Data, Availability, and Cost:
 - A. Raw Raw data for upper Harbor region
 - B. Document
 - C. Computerized
 - D. Data Base Name
 - E. Data Products
 - 11. Comments:

DATA CHARACTERIZATION (LIS46)
STUDY OF OXYGEN DEPLETION IN WESTERN LONG ISLAND SOUND

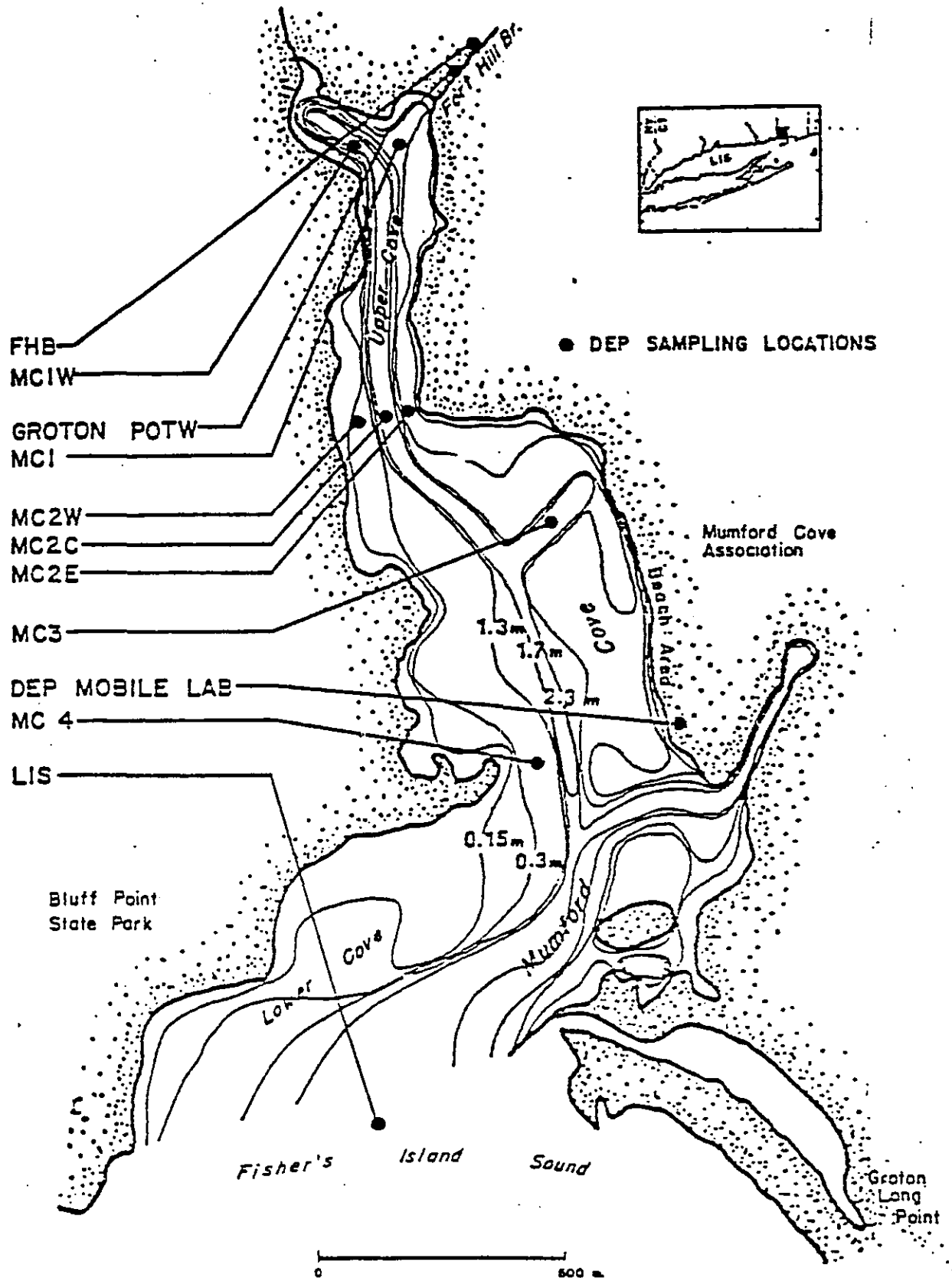
1. Organization Contacted: Conn. Dept. Environ. Protection
2. Person Contacted: Mr. Paul Stacey
3. Telephone No.: (203) 566-2588
4. Address of Contact: 225 Washington St., Hartford, CT 06106
-
5. Citation: State of Connecticut, Dept. of Environmental Protection, Water Compliance Unit, 1985. Water Quality Analysis of Mumford Cove, Groton, CT.
-
6. Sample/Survey Type (describe frequency and/or resolution):
 - A. Station(s):
 - B. Synoptic Survey: 3 surveys
 - C. Vertical Resolution: surface to bottom
7. Time Span of Data: From: 07/83 To: 11/83
8. Data Study Area: Mumford Cove, Groton, CT
9. Parameters measured (describe units):

Dissolved Oxygen	mg/l
Temperature	degrees C
Salinity	dpt
Nitrate, Nitrite, Ammonia	mg/l
Total Phosphorus	mg/l
Total Organic Carbon	mg/l
Dissolved Organic Nitrogen	mg/l
10. Status of Data, Availability, and Cost:
 - A. Raw
 - B. Document
 - C. Computerized See comments
 - D. Data Base Name
 - E. Data Products

11. Comments: Data held in automated form by Conn. Dept. Environmental Protection. The report presents mean values of parameters listed.-

Figure 1.

MUMFORD COVE SITE MAP

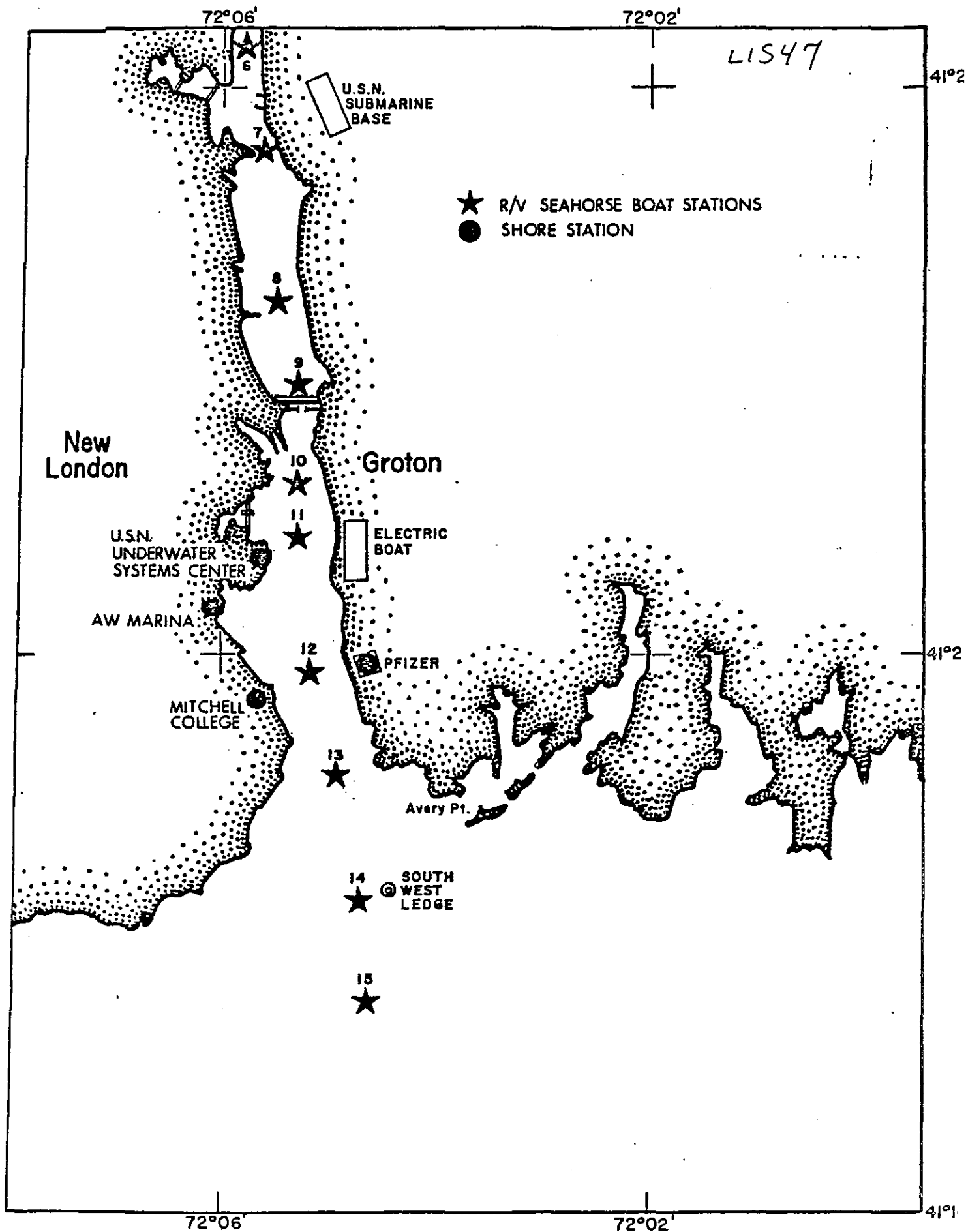


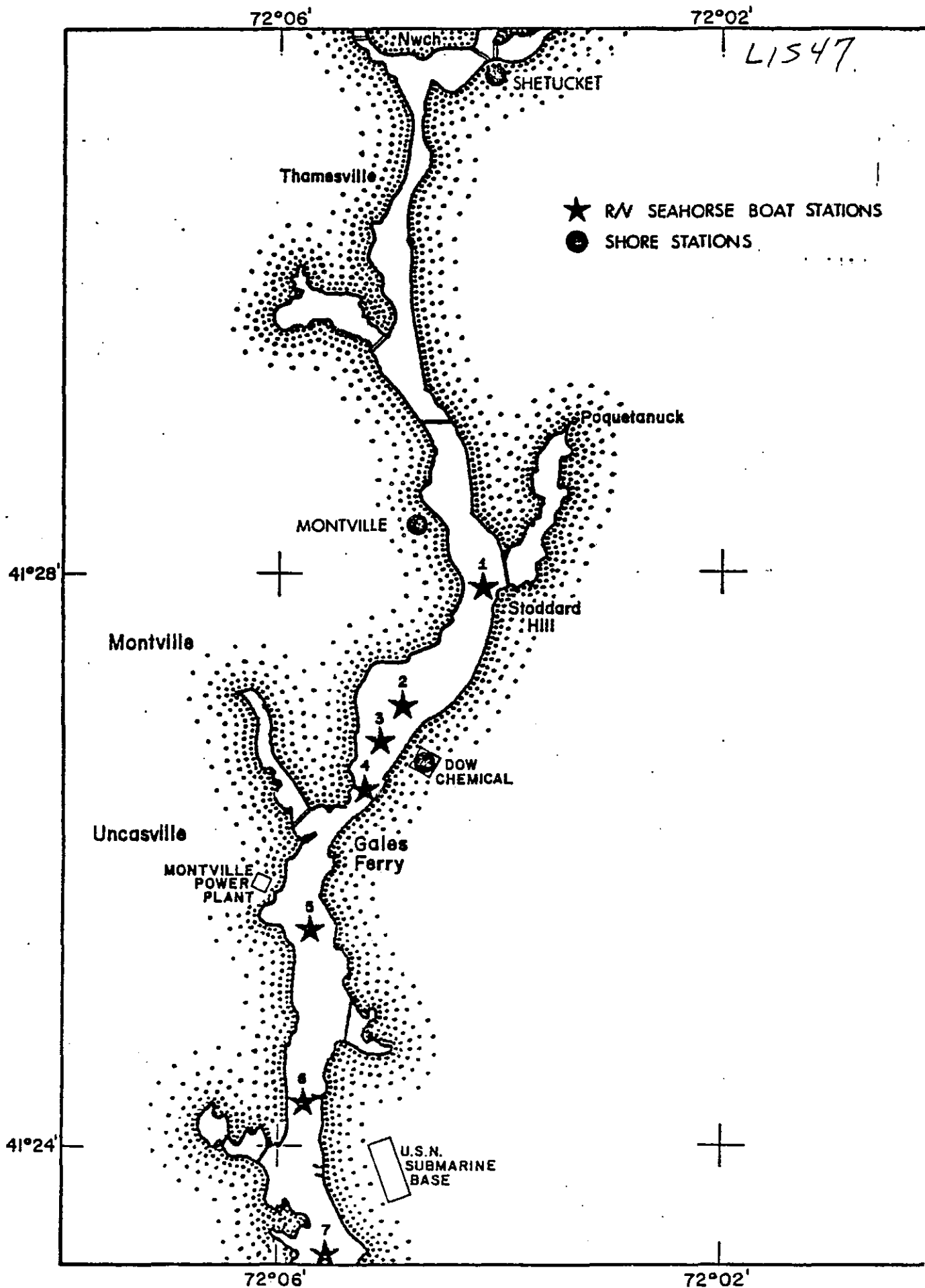
DATA CHARACTERIZATION (LIS47)
STUDY OF OXYGEN DEPLETION IN WESTERN LONG ISLAND SOUND

1. Organization Contacted: Library, Marine Sciences Institute,
Univ. Conn.
2. Person Contacted:
3. Telephone No.:
4. Address of Contact: Avery Pt., Groton, CT
- 5. Citation: Gallagher, J.J., Bohlen, W.F. 1972. Hydrographic
Data Report - Thames River. Conn. Southern New England
Section, Marine Technology Society. Tech. Rep. No. 72-1.

- 6. Sample/Survey Type (describe frequency and/or resolution):
 - A. Station(s): various
 - B. Synoptic Survey: various
 - C. Vertical Resolution: surface and near bottom
- 7. Time Span of Data: From: 06/70 To: 09/71
- 8. Data Study Area: Thames River, CT
- 9. Parameters measured (describe units):

Dissolved Oxygen	ppm
Temperature	degrees C
Conductivity	
pH	
- 10. Status of Data. Availability, and Cost:
 - A. Raw
 - B. Document
 - C. Computerized
 - D. Data Base Name
 - E. Data Products
- 11. Comments: The publication contains data from many sources.
Sampling sites include 15 mid-channel stations and 6 shore-
based monitoring sites. Sampling frequency varies with
source. Some shore stations were monitored daily.





DATA CHARACTERIZATION (LIS48)
STUDY OF OXYGEN DEPLETION IN WESTERN LONG ISLAND SOUND

1. Organization Contacted: U.S. Coast Guard Academy
 2. Person Contacted: Dr. David McGill
 3. Telephone No.: (203) 444-8632
 4. Address of Contact: New London, CT 06320
-
5. Citation: Kollmeyer, R.C., McGill, D.A. 1972. A Study of the Niantic River Estuary, Niantic, Conn. Part IV, Progress Report Phases I and II, Data File of the Niantic River Estuary. U.S. Coast Guard Academy Report No. RDCGA 19.
-
6. Sample/Survey Type (describe frequency and/or resolution):
 - A. Station(s): 22 station grid
 - B. Synoptic Survey: 5 sta every 2 wk
 - C. Vertical Resolution: surface to bottom
 7. Time Span of Data: From: 03/70 To: 12/71
 8. Data Study Area: Niantic River Estuary, CT
 9. Parameters measured (describe units):

Dissolved Oxygen	ppm
% Oxygen Saturation	%
Temperature	degrees C
Salinity	ppt
Phytoplankton Pigments	mg/m ³
Nitrate, Nitrite, Ammonia	ug-at/l
Phosphate, Silicate	ug-at/l
 10. Status of Data, Availability, and Cost:
 - A. Raw
 - B. Document
 - C. Computerized
 - D. Data Base Name

E. Data Products

11. Comments: Also see companion reports:

Kollmeyer, R.C. 1972. Final Report, Phases I and II, Physical Aspects of the Niantic River Estuary. U.S. Coast Guard Report No. RCDGA 18.

McGill, D.A. 1972. Part II, Chemical, Geological and Biological Studies of the Estuarine Ecosystem. U.S. Coast Guard Report No. RCDGA 18.

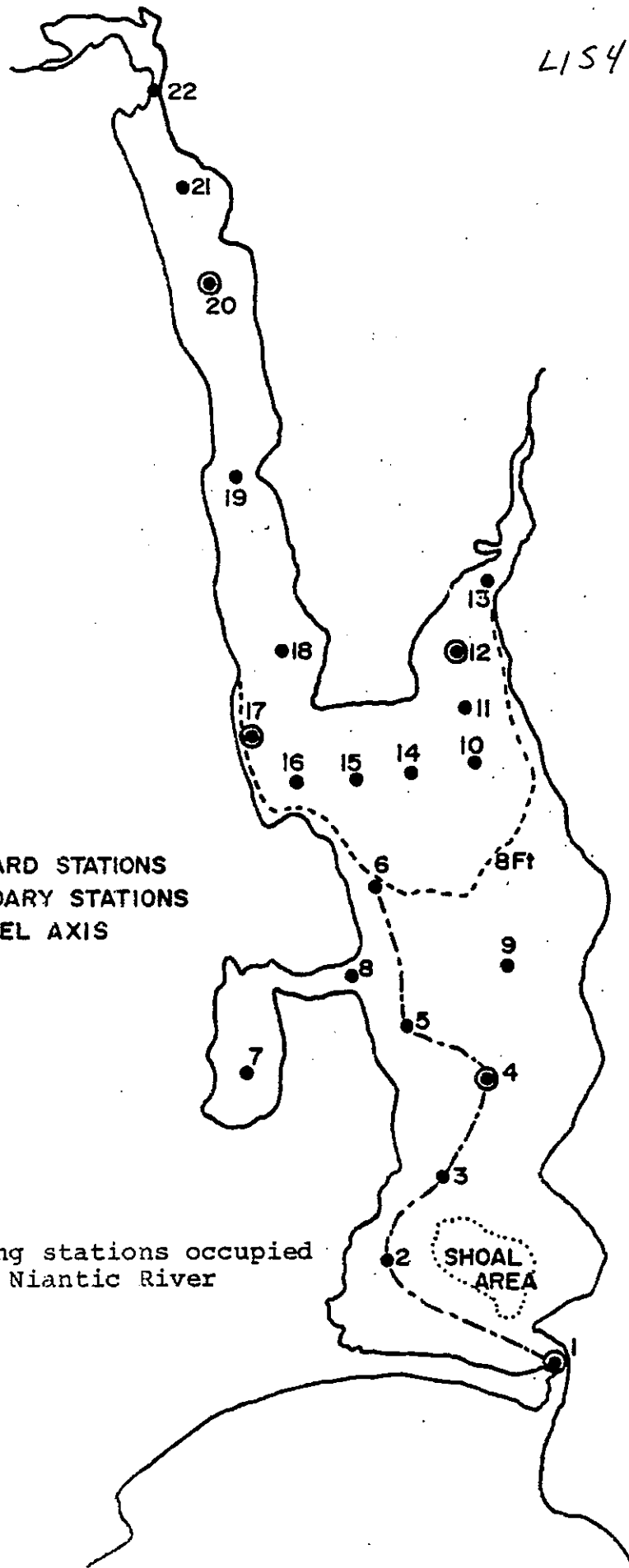
McGill, D.A. 1974. Part III, Further Studies of the Estuarine Ecosystem. Section B, Chemical and Biological Relationships in the Niantic River Estuary. U.S. Coast Guard Report No. RDCGA 29.

L1548

NIANTIC
RIVER

- ⊙ STANDARD STATIONS
- SECONDARY STATIONS
- CHANNEL AXIS

Fig. 2 Sampling stations occupied
in the Niantic River



DATA CHARACTERIZATION (LIS49)
STUDY OF OXYGEN DEPLETION IN WESTERN LONG ISLAND SOUND

1. Organization Contacted: United Illuminating Co.
2. Person Contacted: Dr. David Damer
3. Telephone No.: (203) 787-7778
4. Address of Contact: 80 Tupples St., New Haven, CT 06506
-
5. Citation: Normandeau Associates, Inc. New Haven Harbor Station, Ecological Monitoring Studies, New Haven Harbor, Conn. Annual Reports. Prepared for the United Illuminating Company.
-
6. Sample/Survey Type (describe frequency and/or resolution):
 - A. Station(s): one sta continuous monitoring
 - B. Synoptic Survey:
 - C. Vertical Resolution: sample depth 12 ft
7. Time Span of Data: From: 08/70 To: present
8. Data Study Area: New Haven Harbor Coke Works Pier, CT
9. Parameters measured (describe units):

Dissolved Oxygen ppm

Conductivity

pH

Turbidity
10. Status of Data. Availability, and Cost:
 - A. Raw see comments
 - B. Document Annual Reports
 - C. Computerized
 - D. Data Base Name
 - E. Data Products
11. Comments: The data appear in several summary forms in the annual publications. The raw data are held by Normandeau Associates and are releasable only upon authorization by United Illuminating Co.

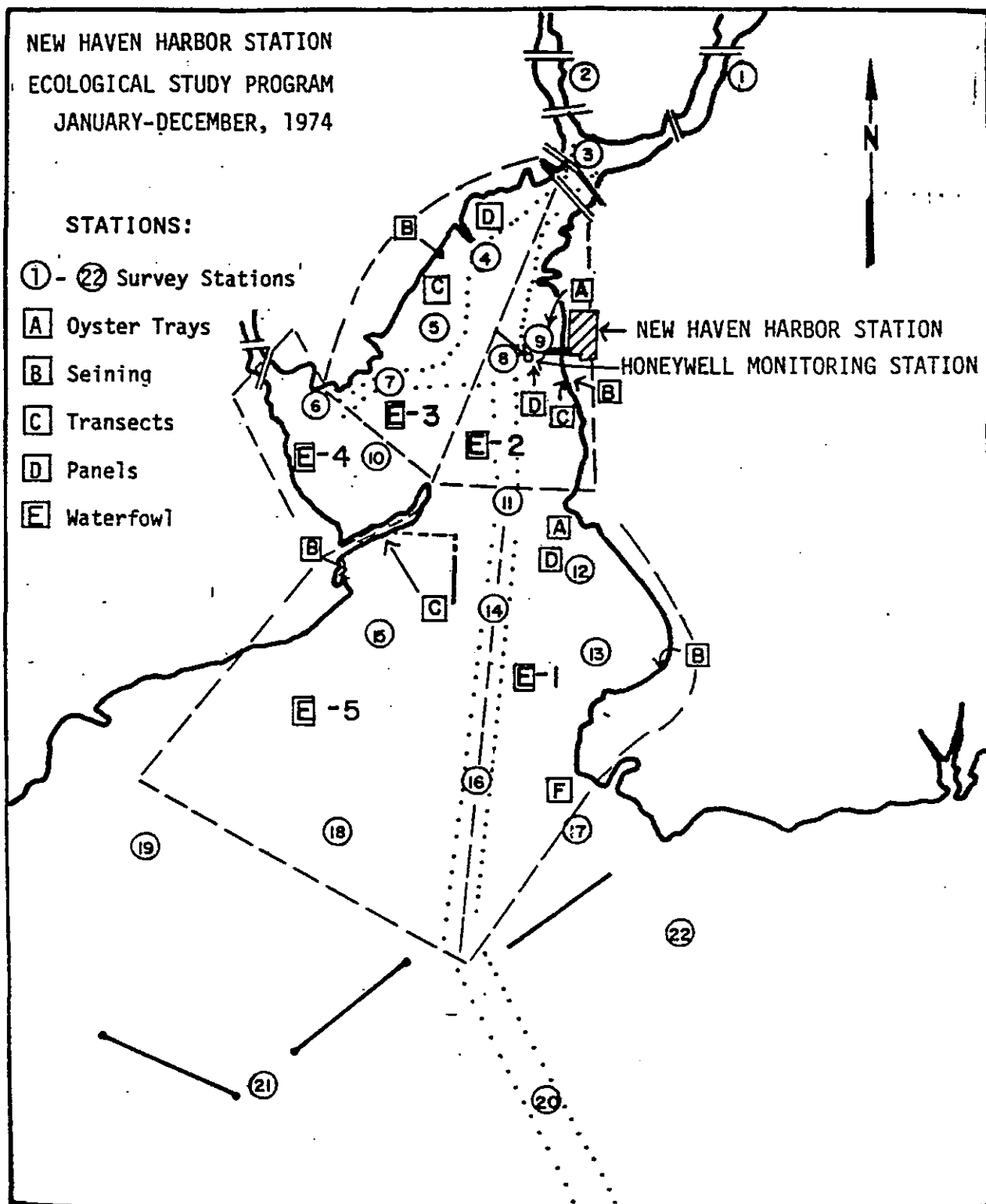


Figure 1. Location map of sampling stations. New Haven Harbor Station Ecological Monitoring Studies, 1975.

DATA CHARACTERIZATION (LIS50)
STUDY OF OXYGEN DEPLETION IN WESTERN LONG ISLAND SOUND

1. Organization Contacted: United Illuminating Co.
2. Person Contacted: Dr. David Damer
3. Telephone No.: (203) 787-7778
4. Address of Contact: 80 Tupple St., New Haven, CT 06506
-
5. Citation: Normandeau Associates, Inc. New Haven Harbor Station Ecological Monitoring Studies, New Haven Harbor, Conn. Annual Reports. Prepared for United Illuminating Co.
-
6. Sample/Survey Type (describe frequency and/or resolution):
 - A. Station(s): 22 sta/mo
 - B. Synoptic Survey: monthly for 12 years
 - C. Vertical Resolution: surface to bottom at 1 m intervals
7. Time Span of Data: From: 71 To: 84
8. Data Study Area: New Haven Harbor, CT
9. Parameters measured (describe units):

Dissolved Oxygen	ppm
Temperature	degrees C
Salinity	opt
Phytoplankton Pigments	mg/m3
Phytoplankton Counts	cells/l
pH	
Secchi Disk	
10. Status of Data, Availability, and Cost:
 - A. Raw see comments
 - B. Document yearly reports
 - C. Computerized
 - D. Data Base Name
 - E. Data Products

11. Comments: Raw data held by Normandeau Associates and releasable only upon approval by United Illuminating Co. See companion report: Normandeau Associates, Inc. 1979. New Haven Harbor Ecological Studies, Summary Report 1970-1977. A.J. McCusker and W.S. Bosworth, eds.

L1550

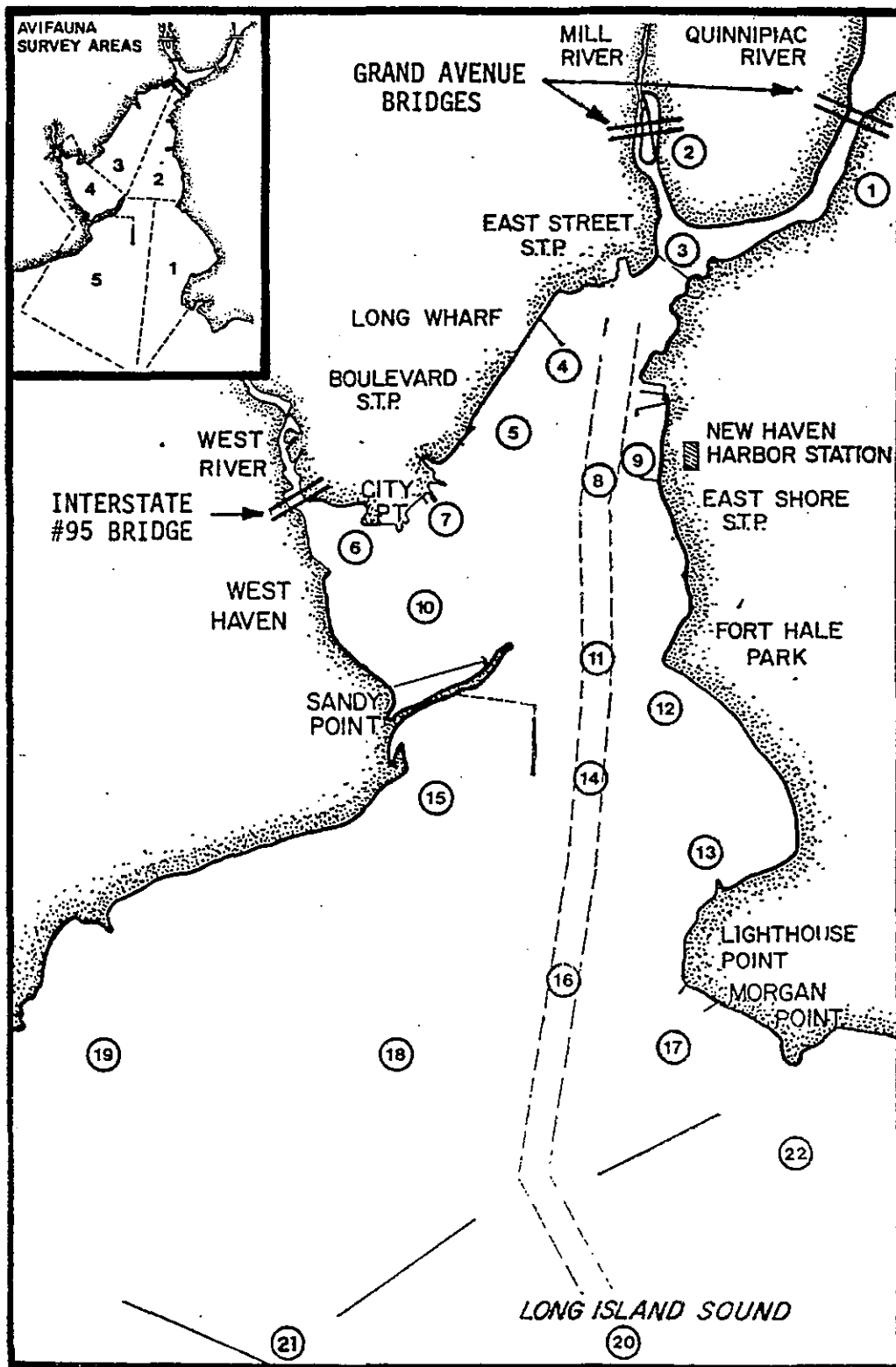


Figure 2-1. New Haven Harbor station location map. New Haven Harbor Station Ecological Monitoring Studies, 1978.

DATA CHARACTERIZATION (LIS51)
STUDY OF OXYGEN DEPLETION IN WESTERN LONG ISLAND SOUND

1. Organization Contacted: U.S. Coast Guard Academy
2. Person Contacted: Douglas S. Tolderlund
3. Telephone No.: (203) 444-8632
4. Address of Contact: New London, CT 06320

5. Citation: Tolderlund, D.S. 1975. Ecological Study of the Thames River Estuary (Conn.) in the Vicinity of the U.S. Coast Guard Academy. Report No. RDCGA No. 575.

6. Sample/Survey Type (describe frequency and/or resolution):

- A. Station(s): 21 sta
- B. Synoptic Survey: 3 times/yr
- C. Vertical Resolution: surface to bottom, multilevel

7. Time Span of Data: From: 06/74 To: 07/74

8. Data Study Area: Thames River Estuary

9. Parameters measured (describe units):

- | | |
|---------------------|-----------|
| Dissolved Oxygen | ppm |
| % Oxygen Saturation | % |
| Temperature | degrees C |
| Salinity | ppt |

10. Status of Data, Availability, and Cost:

- A. Raw
- B. Document
- C. Computerized
- D. Data Base Name
- E. Data Products

11. Comments: Data are presented in graphic form in document.

L1551

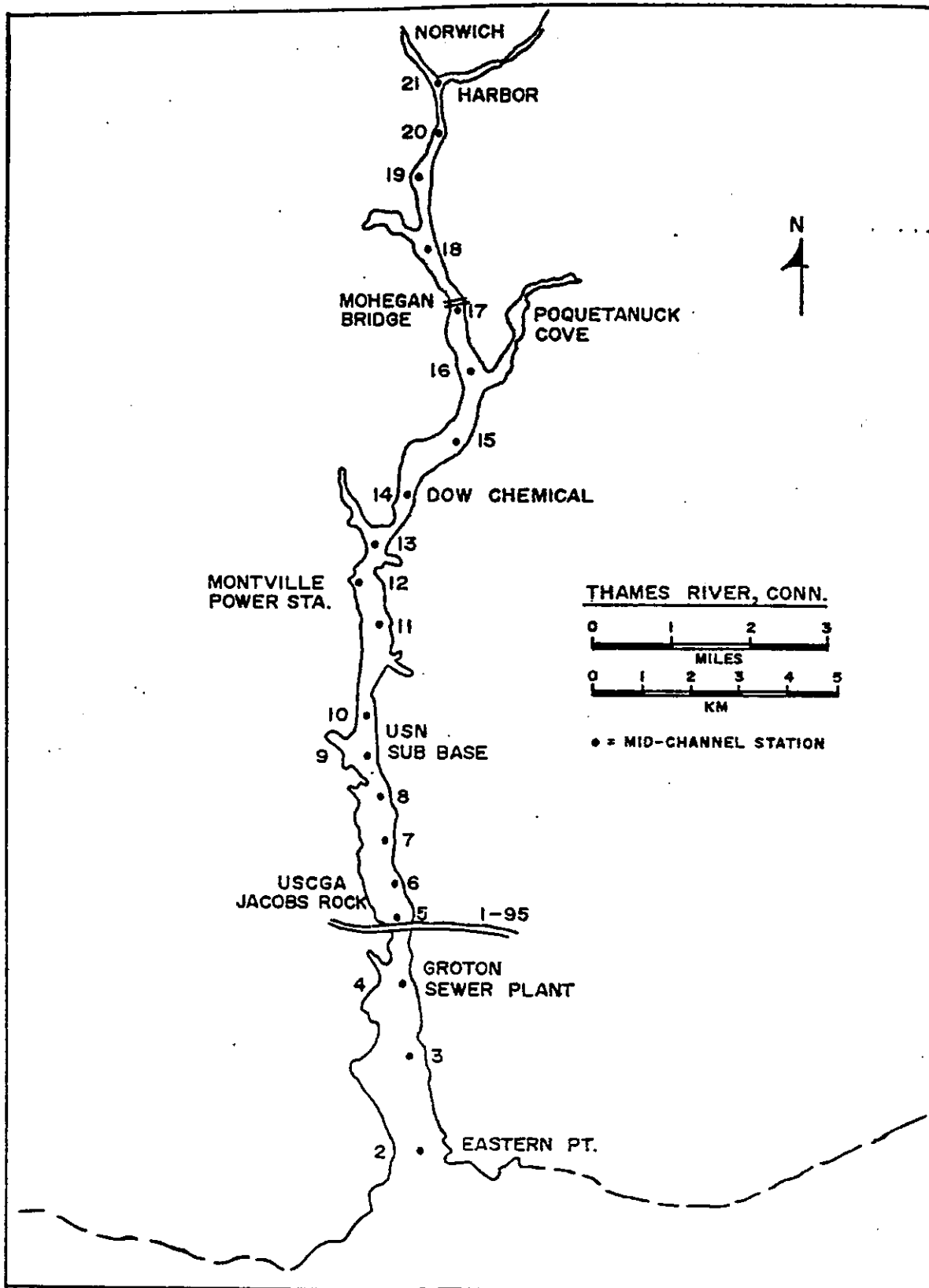


Figure 25. Mid-channel water quality stations.

L1551

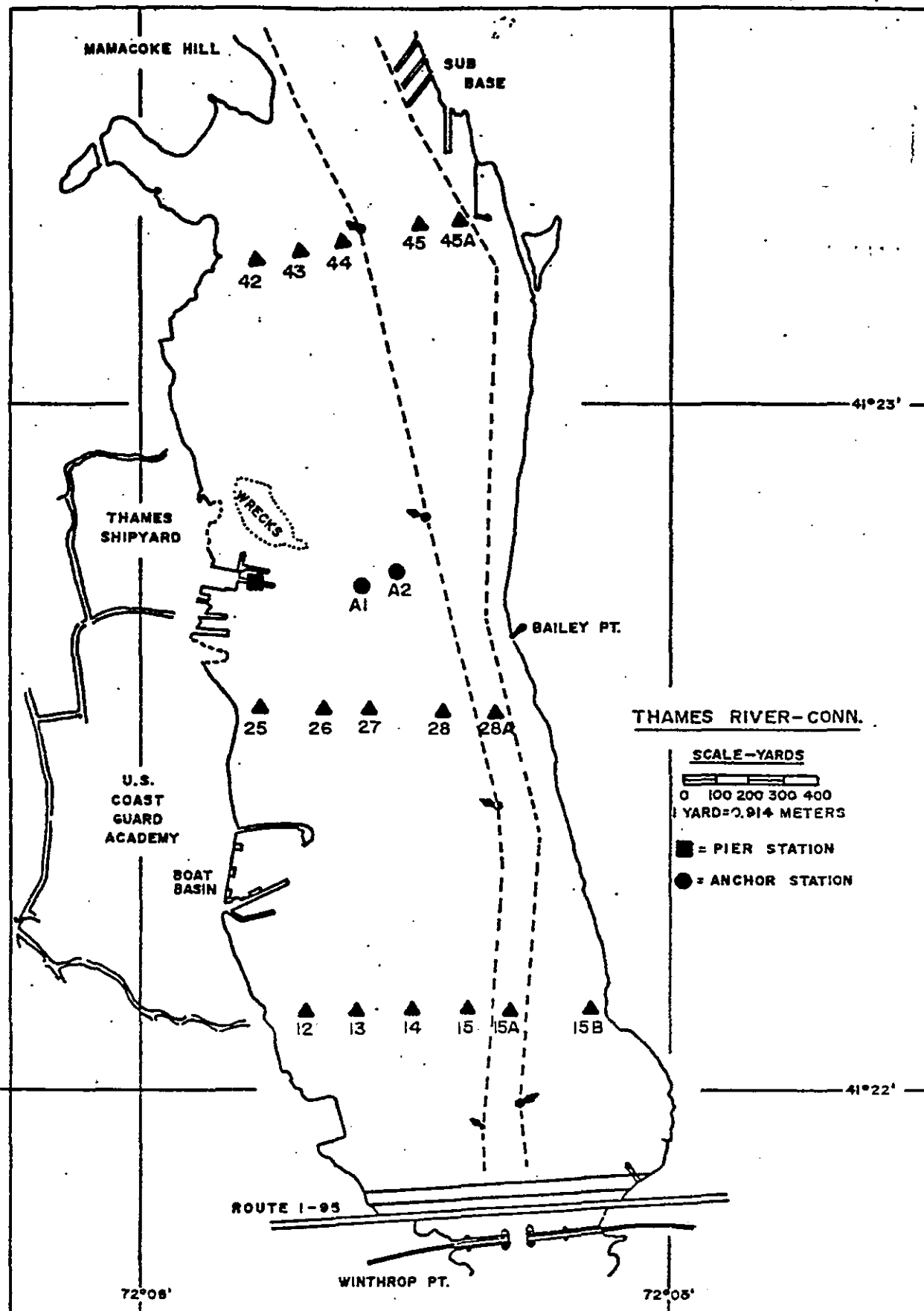


Figure 24. Water quality monitoring stations.

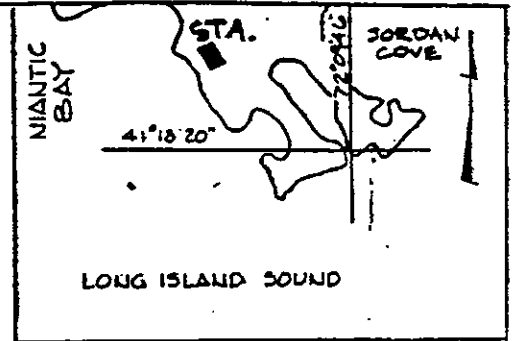
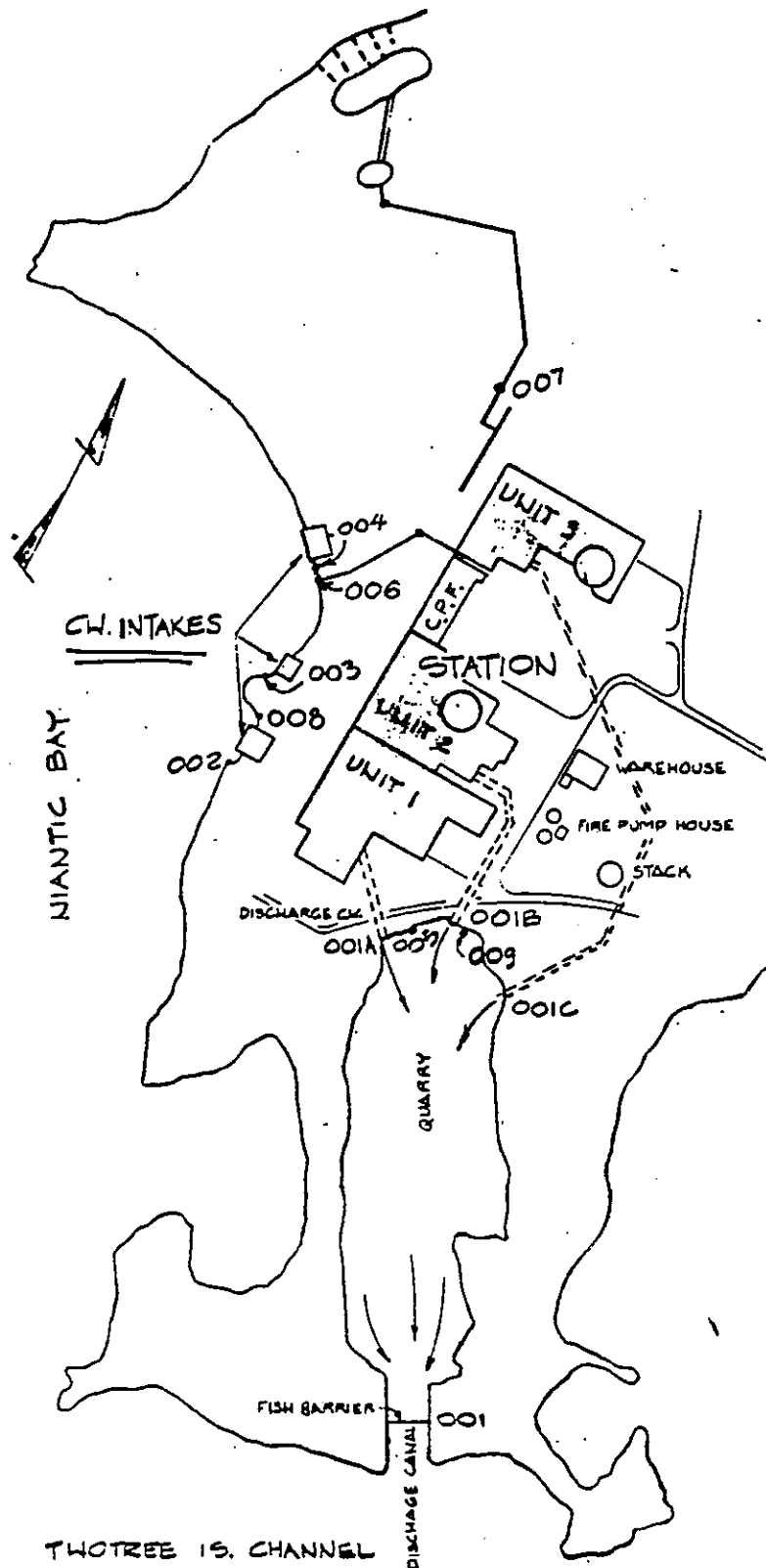
DATA CHARACTERIZATION (LIS52)
STUDY OF OXYGEN DEPLETION IN WESTERN LONG ISLAND SOUND

1. Organization Contacted: Northeast Utilities Service Co.
2. Person Contacted: Dr. Bill Renfro
3. Telephone No.: (203) 665-5000
4. Address of Contact: P.O. Box 270, Hartford, CT 06141-0270
- 5. Citation:

- 6. Sample/Survey Type (describe frequency and/or resolution):
 - A. Station(s): 2 sta/week
 - B. Synoptic Survey:
 - C. Vertical Resolution: surface
- 7. Time Span of Data: From: 02/76 To: 09/85
- 8. Data Study Area: Niantic Bay, CT
- 9. Parameters measured (describe units):

Dissolved Oxygen	ppm
% Oxygen Saturation	%
Temperature	degrees C
Salinity	psu
- 10. Status of Data, Availability, and Cost:
 - A. Raw
 - B. Document
 - C. Computerized available as listing
 - D. Data Base Name
 - E. Data Products
- 11. Comments: Intake and discharge points at Millstone Nuclear Power Station on Niantic Bay.

MILLSTONE NUCLEAR POWER STATION SITE PLANS LIS 52



500 0 500 1000 1500
SCALE OF FEET
TRACED FROM USGS.
NIAHTIC QUADRANGLE

NORTHEAST NUCLEAR ENERGY CO.
MILLSTONE NUCLEAR POWER
STATION ON
NIAHTIC BAY & LONG IS. SOUND
NEW LONDON COUNTY
WATERFORD CONN.
JANUARY 1983

DATA CHARACTERIZATION (LIS53)
STUDY OF OXYGEN DEPLETION IN WESTERN LONG ISLAND SOUND

1. Organization Contacted: Northeast Utilities Service Co.
2. Person Contacted: Dr. Bill Renfro
3. Telephone No.: (203) 665-5000
4. Address of Contact: P.O. Box 270, Hartford, CT 06141-0270
-
5. Citation: Davis, J.D., Piehler, G.R., Hall, P. 1972. Stamford Harbor Ecological Studies - Stamford, Conn. Prepared for Northeast Utilities Service Co. by Normandeau Associates, Inc. Annual Report 1971-1972.
-
6. Sample/Survey Type (describe frequency and/or resolution):
 - A. Station(s): 9 sta/month
 - B. Synoptic Survey: 9 surveys
 - C. Vertical Resolution: surface to bottom
7. Time Span of Data: From: 04/70 To: 02/71
8. Data Study Area: Stamford Harbor, CT
9. Parameters measured (describe units):

Dissolved Oxygen	ppm
Temperature	degrees C
Salinity	ppt
Phytoplankton Pigments	mg/l
Phytoplankton Counts	cells/m ³
Primary Productivity	mg C/m ³ /hr
pH	
Secchi Disk	
10. Status of Data, Availability, and Cost:
 - A. Raw
 - B. Document
 - C. Computerized

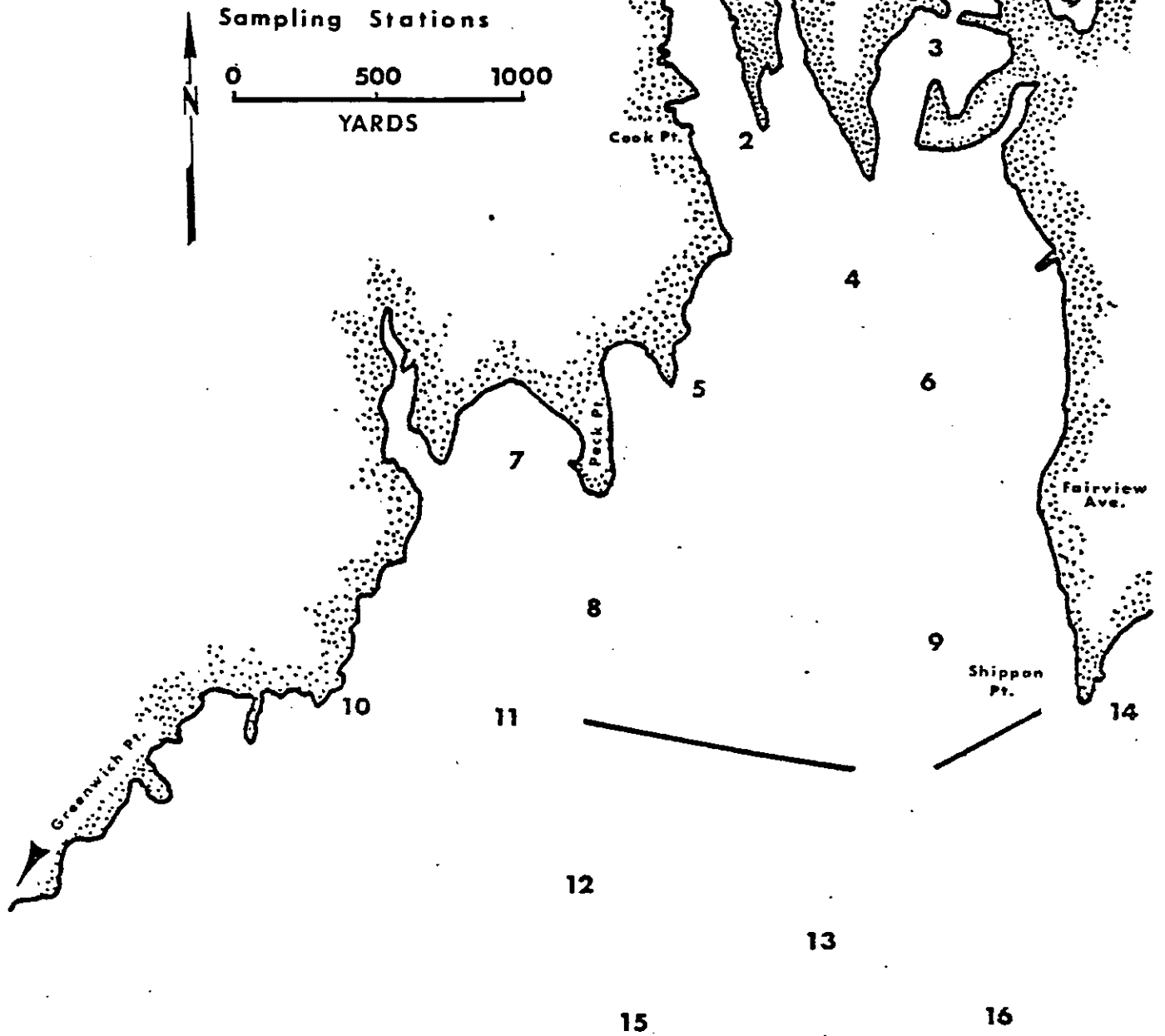
D. Data Base Name

E. Data Products

11. Comments: Document contains graphic/summary presentations.

L1553

FIGURE 2
**STAMFORD HARBOR
ECOLOGICAL STUDIES**



DATA CHARACTERIZATION (LIS54)
STUDY OF OXYGEN DEPLETION IN WESTERN LONG ISLAND SOUND

1. Organization Contacted: Northeast Utilities Service Co.
2. Person Contacted: Dr. Bill Renfro
3. Telephone No.: (203) 665-5000
4. Address of Contact: P.O. Box 270, Hartford, CT 06141-0270

5. Citation: McIlvaine, P.M. 1974. Water Quality Analysis for the Millstone Generating Station. Prepared for Northeast Utilities Service Company by Research Corporation of New England (TRC). (A series of 12 monthly reports for 1974)

6. Sample/Survey Type (describe frequency and/or resolution):

- A. Station(s): 9 sta
B. Synoptic Survey: monthly
C. Vertical Resolution: surface, mid-, bottom

7. Time Span of Data: From: 01/74 To: 12/74

8. Data Study Area: Millstone Point, Niantic Bay

9. Parameters measured (describe units):

Dissolved Oxygen	ppm
Temperature	degrees C
Conductivity	umho/cm
Nitrate, Nitrite, Ammonia	ppm
Phosphate	ppm
TOC, DON	
pH	
Copper, Nickel, Iron, Manganese, Zinc, Aluminum, Lead	

10. Status of Data, Availability, and Cost:

- A. Raw
B. Document series of 12 monthly reports
C. Computerized

D. Data Base Name

E. Data Products

11. Comments:

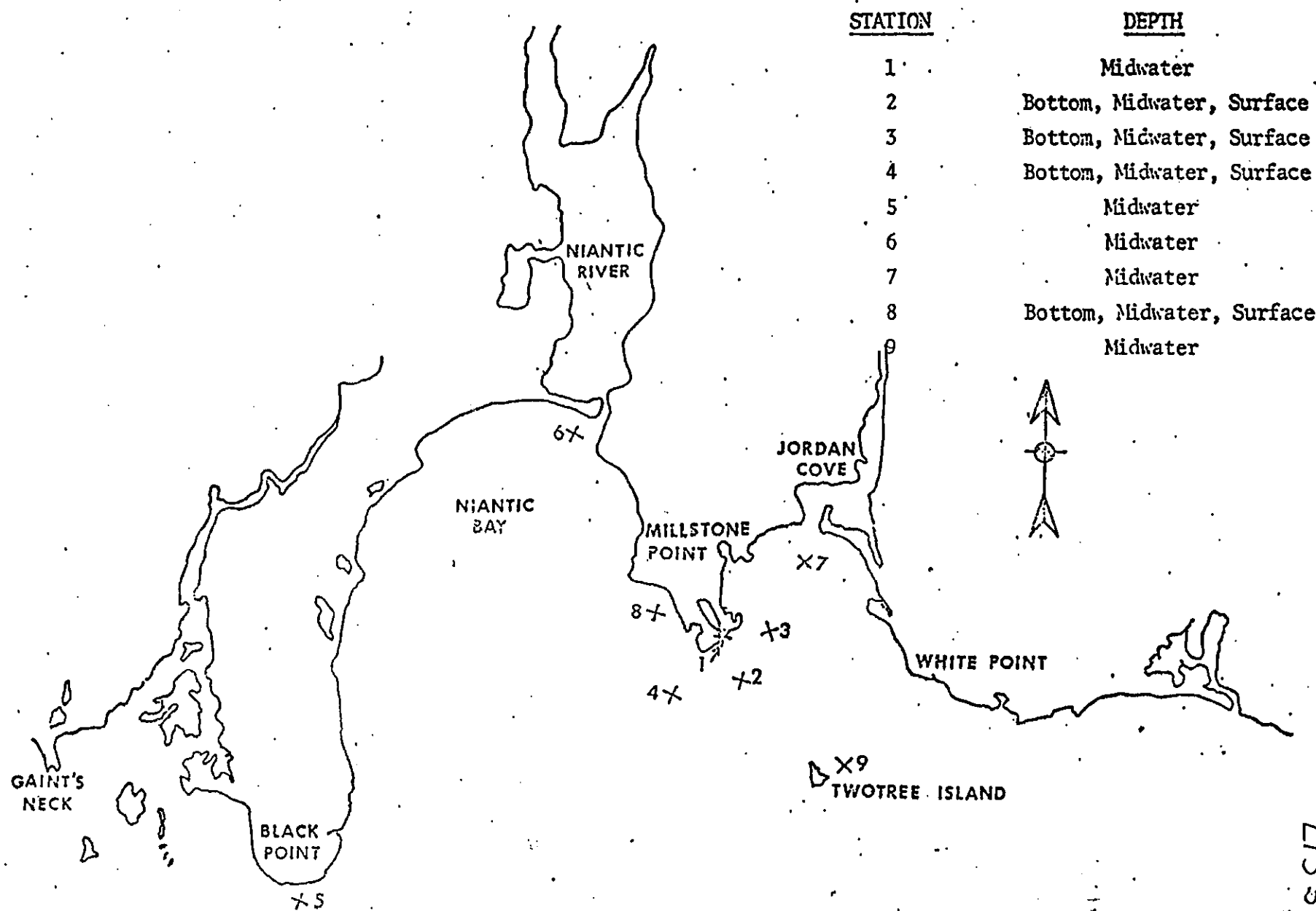


FIGURE 1: WATER QUALITY SAMPLING LOCATIONS;
MILLSTONE POINT

4.9517

DATA CHARACTERIZATION (LIS55)
STUDY OF OXYGEN DEPLETION IN WESTERN LONG ISLAND SOUND

1. Organization Contacted:

2. Person Contacted:

3. Telephone No.:

4. Address of Contact:

5. Citation: Bohlen, W.F., Tramontano, J.M. 1974. Oceanographic Factors Relating to the Disposal of Dredged Materials in Long Island Sound. 1. Physical and Chemical Characteristics of the Waters Adjacent to the New Haven Dredge Spoils Disposal Site. Data Report 1972-1973. Marine Sciences Institute, Univ. of Conn. SR-21.

6. Sample/Survey Type (describe frequency and/or resolution):

A. Station(s): 15 sta

B. Synoptic Survey: monthly

C. Vertical Resolution: surface, mid-, bottom

7. Time Span of Data: From: 07/72 To: 07/73

8. Data Study Area: Central Sound off New Haven, CT

9. Parameters measured (describe units):

Dissolved Oxygen mg/l

Temperature

Salinity ppt

Nitrate, Nitrite ug-at/l

Phosphate ug-at/l

BOD

Sediment BOD. Coliforms. Suspended Load

Secchi Disk

10. Status of Data. Availability, and Cost:

A. Raw

B. Document

C. Computerized

D. Data Base Name

E. Data Products

11. Comments: Document includes data in tabular and graphic form.

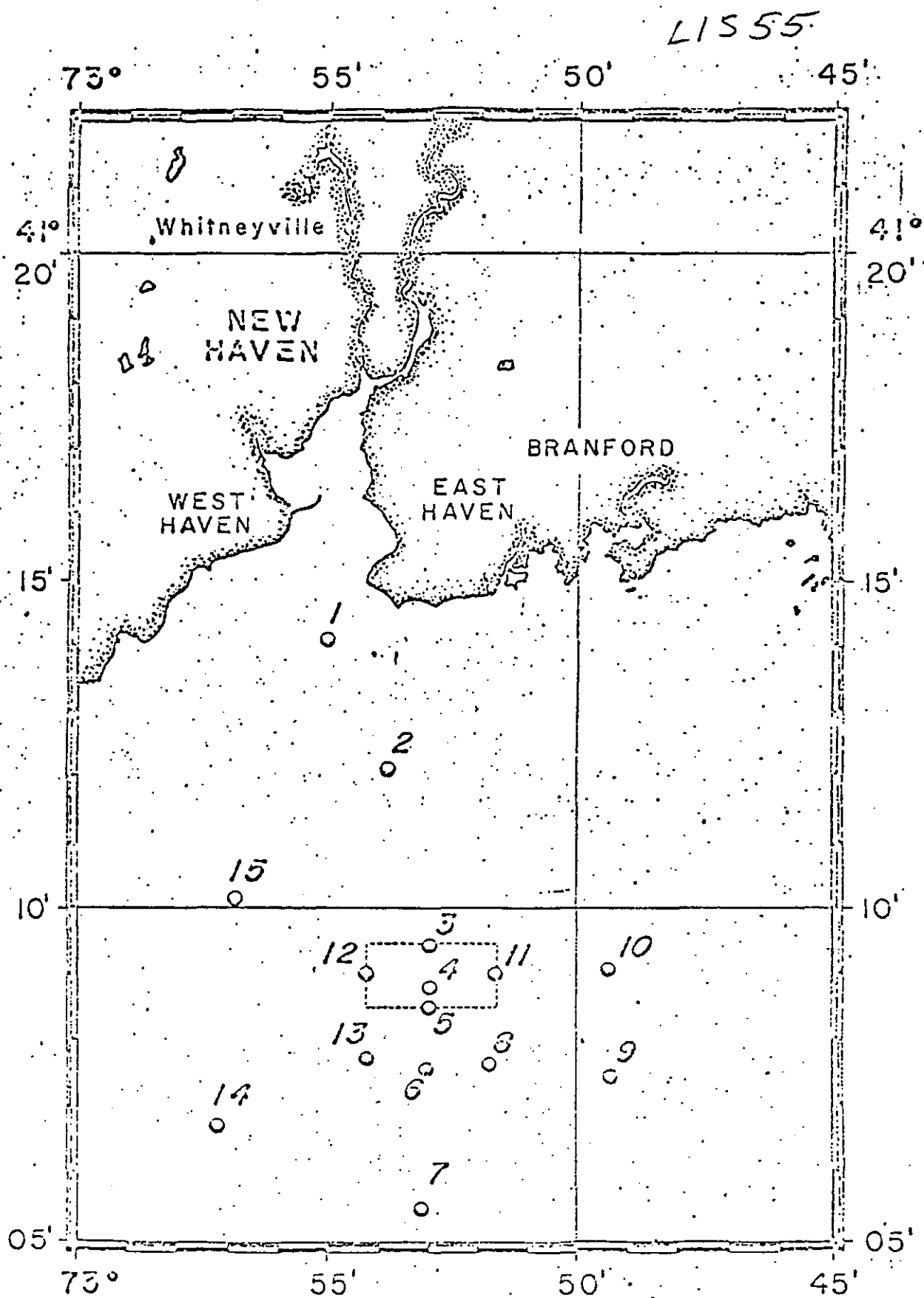


Fig. 2. Station Locations

DATA CHARACTERIZATION (LISS6)
STUDY OF OXYGEN DEPLETION IN WESTERN LONG ISLAND SOUND

1. Organization Contacted:

2. Person Contacted:

3. Telephone No.:

4. Address of Contact:

5. Citation: Bohlen, W.F., Tramontano, J.M. 1974. Oceanographic Factors Relating to the Disposal of Dredged Materials in Long Island Sound. 2. Physical and Chemical Characteristics of the Waters Adjacent to the New Haven Dredge Spoils Disposal Site. Data Report 1973-1974. Marine Sciences Institute, Univ. of Conn. SR-22.

6. Sample/Survey Type (describe frequency and/or resolution):

A. Station(s): 15 sta

B. Synoptic Survey: monthly

C. Vertical Resolution: surface, mid-, bottom

7. Time Span of Data: From: 07/72 To: 07/73

8. Data Study Area: Central Sound off New Haven, CT

9. Parameters measured (describe units):

Dissolved Oxygen mg/l

Temperature

Salinity opt

Nitrate, Nitrite ug-at/l

Phosphate ug-at/l

BOD

Sediment BOD, Coliforms, Suspended Load

Secchi Disk

10. Status of Data, Availability, and Cost:

A. Raw

B. Document

C. Computerized

D. Data Base Name

E. Data Products

11. Comments: Report contains data in tabular and graphic form.

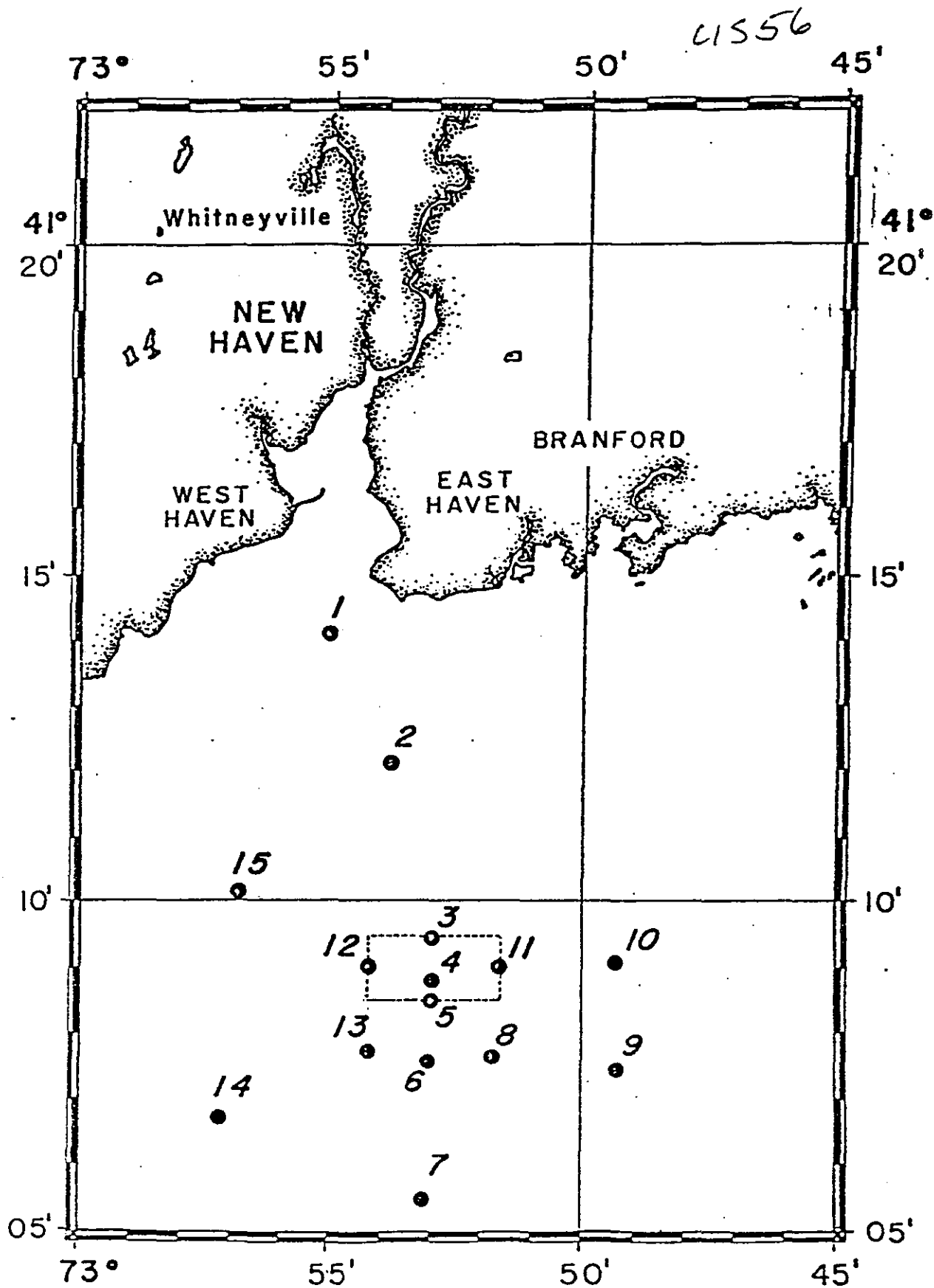


Fig. 1. Station Locations

DATA CHARACTERIZATION (LIS57)
STUDY OF OXYGEN DEPLETION IN WESTERN LONG ISLAND SOUND

1. Organization Contacted: NY City Dept. of Environ. Protection
2. Person Contacted: Anjelica Forndran, Nancy O'Mara
3. Telephone No.: (212) 860-9378
4. Address of Contact: New York, NY

5. Citation: New York City, Dept. of Environmental Protection.
Bureau of Water Pollution Control, 1984. New York Harbor
Water Quality Survey.

6. Sample/Survey Type (describe frequency and/or resolution):

A. Station(s):

B. Synoptic Survey: nearly weekly

C. Vertical Resolution: surface to bottom*

7. Time Span of Data: From: 60 To: present
8. Data Study Area: Extreme western Sound
9. Parameters measured (describe units):

Dissolved Oxygen

% Oxygen Saturation

Temperature

Nitrite, Ammonia

Phosphate

TOC

Metals, PCBs

10. Status of Data. Availability, and Cost:

A. Raw

B. Document Series of annual reports

C. Computerized

D. Data Base Name

E. Data Products

11. Comments: * Maximum depth 40 ft.

41557

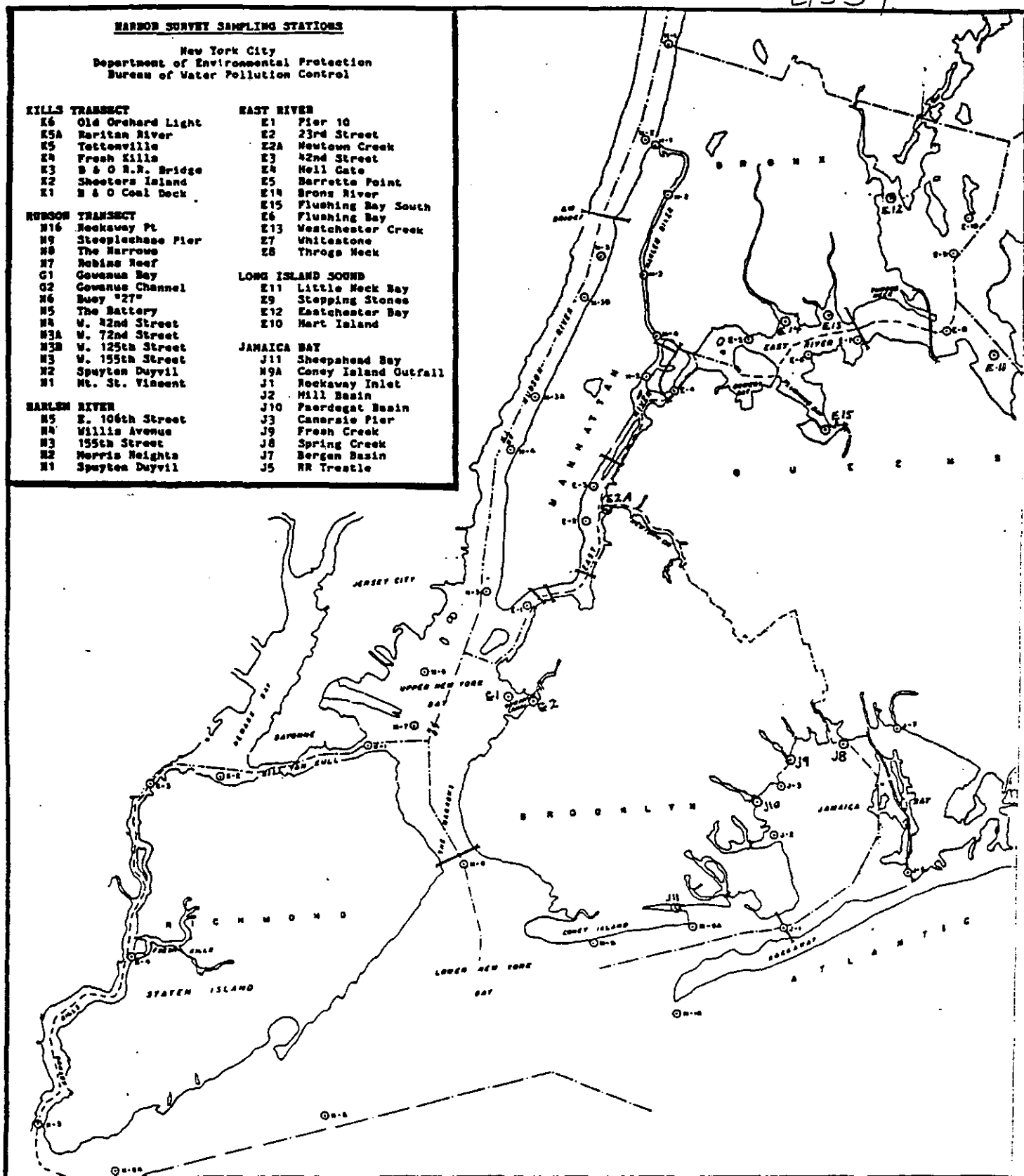


Figure A-1. Map of Harbor Survey sampling stations.

DATA CHARACTERIZATION (LIS60)
STUDY OF OXYGEN DEPLETION IN WESTERN LONG ISLAND SOUND

1. Organization Contacted:

2. Person Contacted:

3. Telephone No.:

4. Address of Contact:

5. Citation: Riley, G.A. 1956 and 1959. Oceanography of Long Island Sound, 1952-1954 and 1954-1955. Bull. Bingham Oceanographic Collection 15. 47-61 and 17. 9-30.

6. Sample/Survey Type (describe frequency and/or resolution):

A. Station(s):

B. Synoptic Survey:

C. Vertical Resolution:

7. Time Span of Data: From: 52 To: 55

8. Data Study Area: East-west sections through Sound

9. Parameters measured (describe units):

Dissolved Oxygen ml/l

Salinity ppt

Phytoplankton Pigments ug/l

Nitrate, Phosphate ug-at/l

10. Status of Data, Availability, and Cost:

A. Raw Not found

B. Documents Available at NOS and SUNY libraries

C. Computerized

D. Data Base Name

E. Data Products

11. Comments: Graphs of weekly averages of data in documents.

DATA CHARACTERIZATION (LIS61)
STUDY OF OXYGEN DEPLETION IN WESTERN LONG ISLAND SOUND

1. Organization Contacted:
2. Person Contacted:
3. Telephone No.:
4. Address of Contact:

5. Citation: Riley, S.A. 1948. Hydrography of the Western Atlantic: The Long Island and Block Island Sounds. Woods Hole Oceanographic Institution Tech. Rep. 11. WHOI 48-8.

6. Sample/Survey Type (describe frequency and/or resolution):

A. Station(s): approx. 180 sta.

B. Synoptic Survey: 9 surveys

C. Vertical Resolution: surface to bottom

7. Time Span of Data: From: 01/46 To: 01/47

8. Data Study Area: Eastern Long Island Sound and Block Island Sound

9. Parameters measured (describe units):

Temperature degrees C

Salinity ppt

10. Status of Data, Availability, and Cost:

A. Raw

B. Document held by WHOI Document Library

C. Computerized *

D. Data Base Name

E. Data Products

11. Comments: Data presented in graphic form in document.
* Temperature data may be held by National Oceanographic Data Center (MST files) in digital form.

DATA CHARACTERIZATION (LIS62)
STUDY OF OXYGEN DEPLETION IN WESTERN LONG ISLAND SOUND

1. Organization Contacted: National Marine Fisheries Service
2. Person Contacted: Dr. Jay O'Reilly
3. Telephone No.: (201) 872-0200 EXT 205
4. Address of Contact: NMFS, Sandy Hook Laboratory
Highlands, NJ 07732

5. Citation:

6. Sample/Survey Type (describe frequency and/or resolution):

- A. Station(s): 11 sta
- B. Synoptic Survey: once
- C. Vertical Resolution: bottom only

7. Time Span of Data: From: 10/17/79 To: 10/18/79

8. Data Study Area: East-west section through entire Sound

9. Parameters measured (describe units):

- | | |
|---------------------|-----------|
| Dissolved Oxygen | mg/l |
| % Oxygen Saturation | % |
| Temperature | degrees C |
| Salinity | ppt |

10. Status of Data. Availability. and Cost:

- A. Raw field logs
- B. Document
- C. Computerized NMFS, System 1032
- D. Data Base Name
- E. Data Products

11. Comments: Data collected during NorthEast Monitoring Program (NEMP) cruise 79-10 of the R/V Kelez.

DATA CHARACTERIZATION (LIS63)
STUDY OF OXYGEN DEPLETION IN WESTERN LONG ISLAND SOUND

1. Organization Contacted: Project Oceanology
2. Person Contacted: Mr. Brae Rafferty
3. Telephone No.: (203) 445-9007
4. Address of Contact: Avery Point, Groton, CT 06340
- 5. Citation:

6. Sample/Survey Type (describe frequency and/or resolution):
 - A. Station(s): See comments
 - B. Synoptic Survey: daily except during Dec. and Jan.
 - C. Vertical Resolution: surface to near bottom
7. Time Span of Data: From: 1973 To: present
8. Data Study Area: Fisher Island Sound, eastern Long Island Sound, lower Thames River, CT
9. Parameters measured (describe units):

Dissolved Oxygen

Temperature

Salinity
10. Status of Data. Availability, and Cost:
 - A. Raw log sheets
 - B. Document
 - C. Computerized
 - D. Data Base Name
 - E. Data Products
11. Comments: There are no fixed station locations. General areas are sampled on a daily basis. Project Oceanology is a marine education project that involves 10,000 students and teachers per year. Data are collected by students and recorded on log sheets. Since these data are collected by students, some individual observations may be of poor quality but the long-term nature of the data set may be valuable for climate trend purposes.

DATA CHARACTERIZATION (LIS64)
STUDY OF OXYGEN DEPLETION IN WESTERN LONG ISLAND SOUND

1. Organization Contacted: Project Oceanology
2. Person Contacted: Mr. Brae Rafferty
3. Telephone No.: (203) 445-9007
4. Address of Contact: Avery Point, Groton, CT 06340
- 5. Citation:

6. Sample/Survey Type (describe frequency and/or resolution):
 - A. Station(s): 10 sta
 - B. Synoptic Survey: every other year: Aug.
 - C. Vertical Resolution: surface to near bottom
7. Time Span of Data: From: 73 To: present
8. Data Study Area: Thames River, CT
9. Parameters measured (describe units):

Dissolved Oxygen

Temperature

Salinity
10. Status of Data, Availability, and Cost:
 - A. Raw log sheets
 - B. Document
 - C. Computerized
 - D. Data Base Name
 - E. Data Products
11. Comments: This is a summer teacher training program in the marine sciences. The data are reported to be of good quality.

DATA CHARACTERIZATION (LIS65)
STUDY OF OXYGEN DEPLETION IN WESTERN LONG ISLAND SOUND

1. Organization Contacted: Interstate Sanitation Commission
2. Person Contacted: Tony C. Jeng
3. Telephone No.: (212) 582-0380
4. Address of Contact: 311 W. 43rd St., Room 201
New York, NY 10036

5. Citation:

6. Sample/Survey Type (describe frequency and/or resolution):

- A. Station(s): 16 sta + 1 sta DO only
- B. Synoptic Survey: 4+ surveys/year
- C. Vertical Resolution: most are surface;
few bottom DO and temp obs

7. Time Span of Data: From: 1977 To: date

8. Data Study Area: East River and western Sound

9. Parameters measured (describe units):

- Dissolved Oxygen mg/l
- Temperature degrees C
- Conductivity mohms/cm
- Inorganic Nutrients mg/l

10. Status of Data. Availability, and Cost:

- A. Raw All hard copy data held by ISC
- B. Document
- C. Computerized
- D. Data Base Name EPA STORET
- E. Data Products

11. Comments: Surveys were done by helicopter or boat. The monitoring program is still active.

DATA CHARACTERIZATION (LIS66)
STUDY OF OXYGEN DEPLETION IN WESTERN LONG ISLAND SOUND

1. Organization Contacted: Nassau County Dept. of Health
2. Person Contacted: Mr. George Gaige
3. Telephone No.: (516) 535-3602
4. Address of Contact: 240 Old County Rd, Mineola, NY 11501
- 5. Citation:

6. Sample/Survey Type (describe frequency and/or resolution):
 - A. Station(s): 25 sta total
 - B. Synoptic Survey: 9+ surveys/yr
 - C. Vertical Resolution: Surface and bottom
7. Time Span of Data: From: 1970 To: Present
8. Data Study Area: Little Neck Bay; eastern and western Sound;
Hempstead, Cold Spring, Oyster Bay Harbors,
Manhasset Bay
9. Parameters measured (describe units):

Dissolved Oxygen	mg/l
% Oxygen Saturation	%
Temperature	degrees C
Salinity	ppt
Inorganic Nutrients	mg/l
10. Status of Data, Availability, and Cost:
 - A. Raw Data printout for 1980-on held by ISC
 - B. Document
 - C. Computerized 1980-1984 data on tape
 - D. Data Base Name
 - E. Data Products
11. Comments: 2 sta in Little Neck Bay; 4 sta in eastern Sound;
7 sta in Hempstead Harbor; 1 sta in Cold Spring Harbor; 4
sta in Oyster Bay Harbor; 3 sta in western Sound; 5 sta in

Manhasset Bay. The monitoring program is still active.

L1566

LLOYD
NECK

WEST
NECK

CENTER IS.

⊗ 13-402

13-403

COLD SPRING HARBOR

COVE
NECK

OYSTER BAY
HARBOR

WYFOLK
VASSAL CO.

13-405

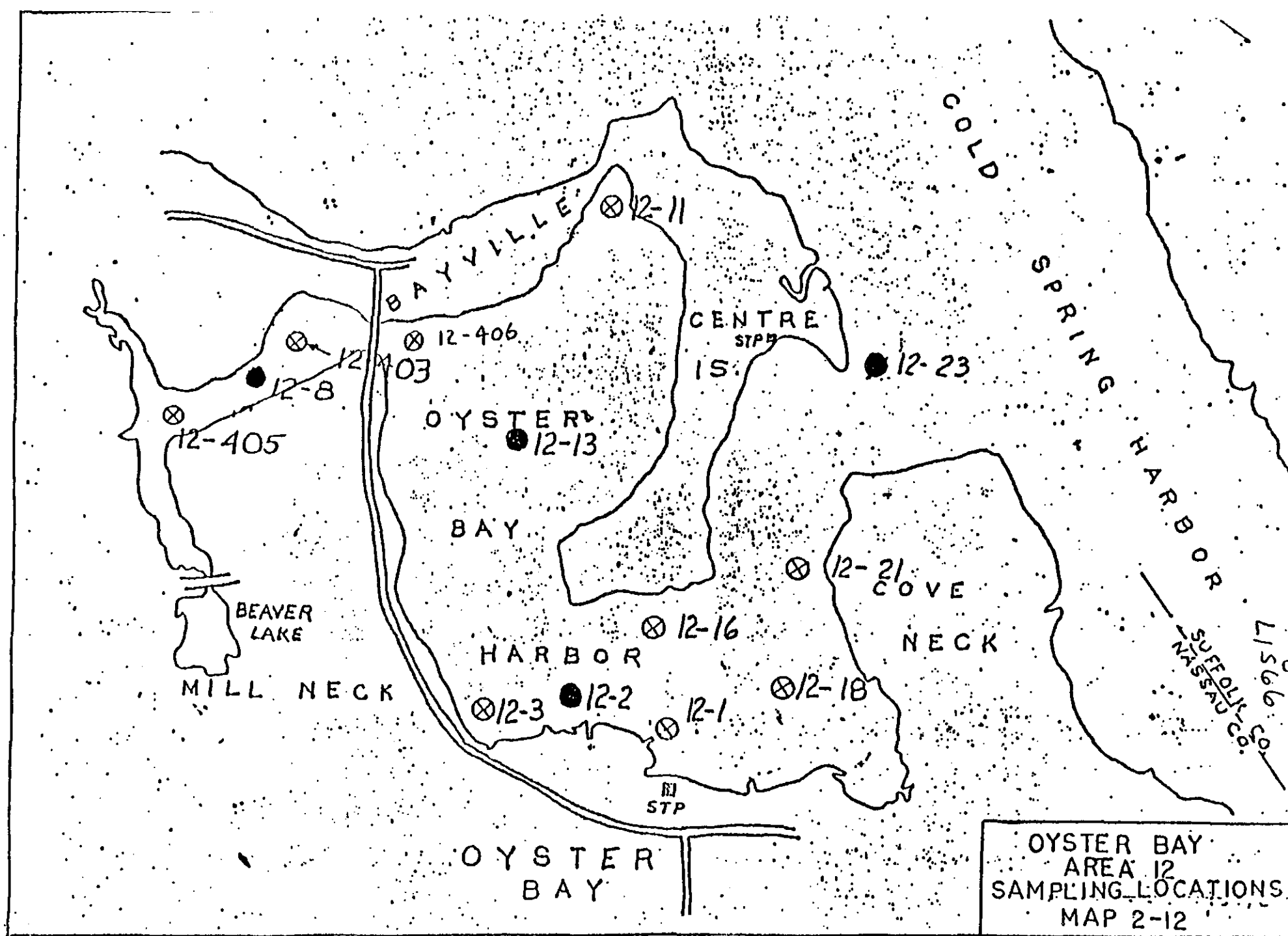
⊗ 13-406

⊗ 13-407

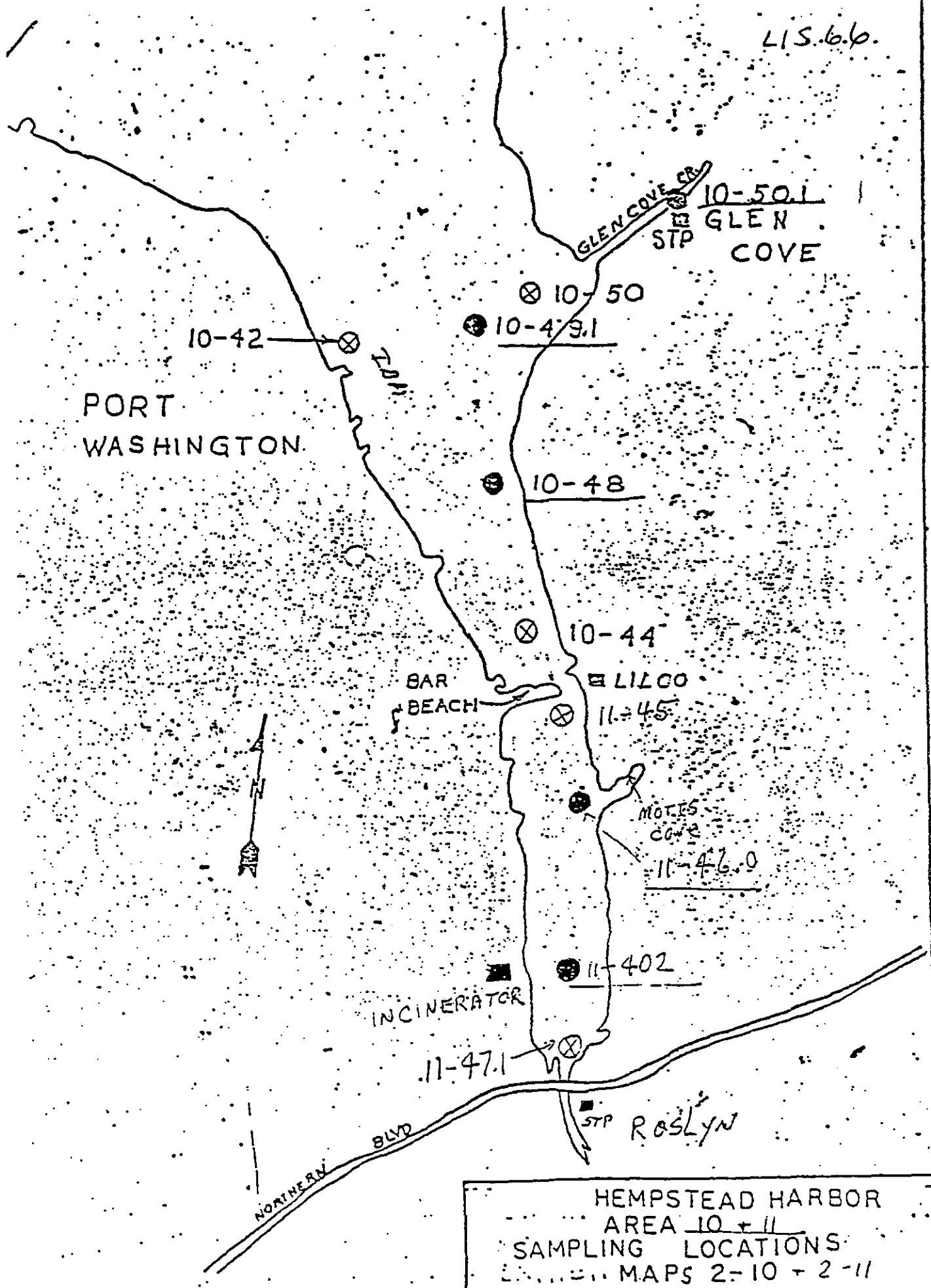
STP

N

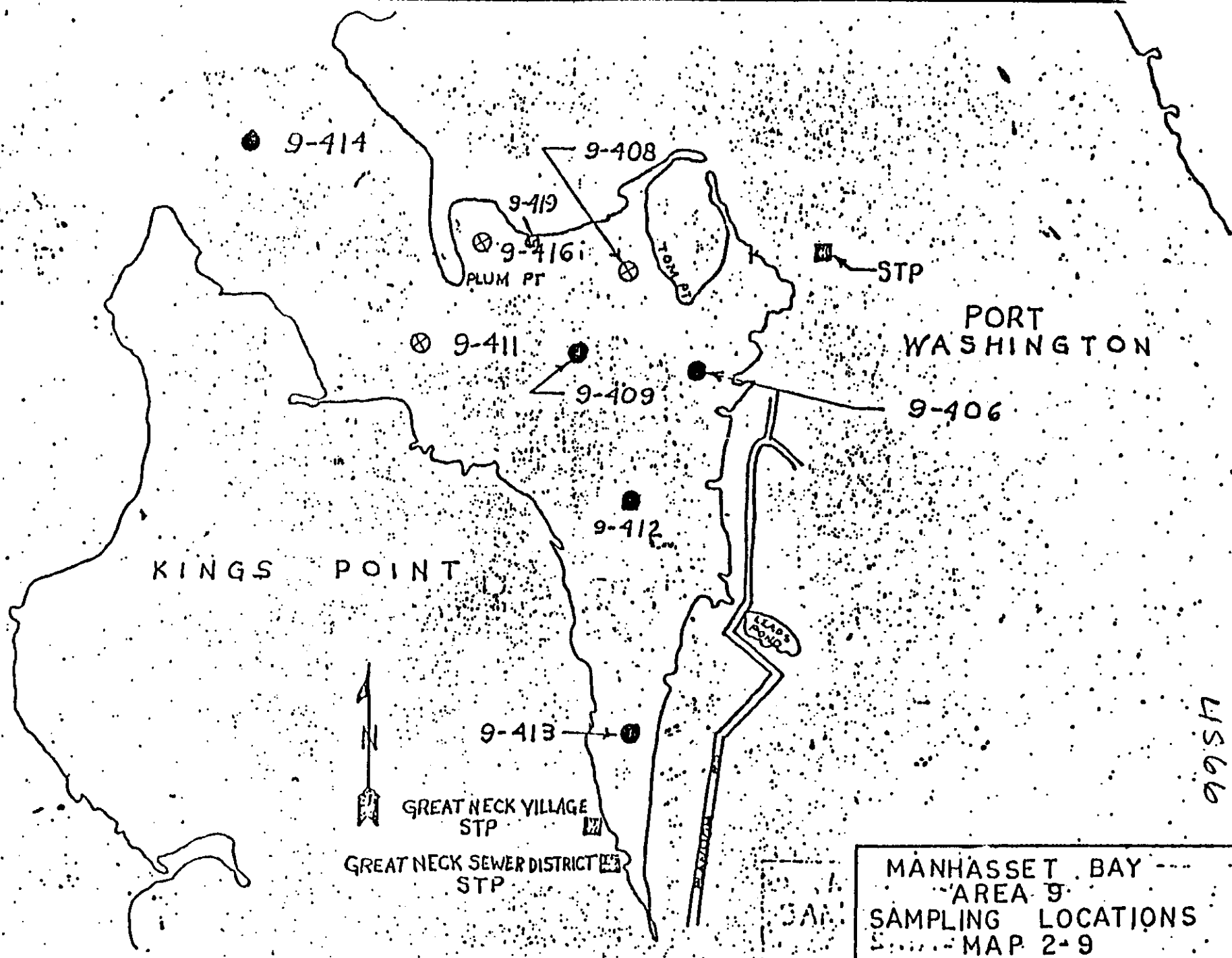
COLD SPRING HARBOR
AREA 13
SAMPLING LOCATIONS
MAP 2-13

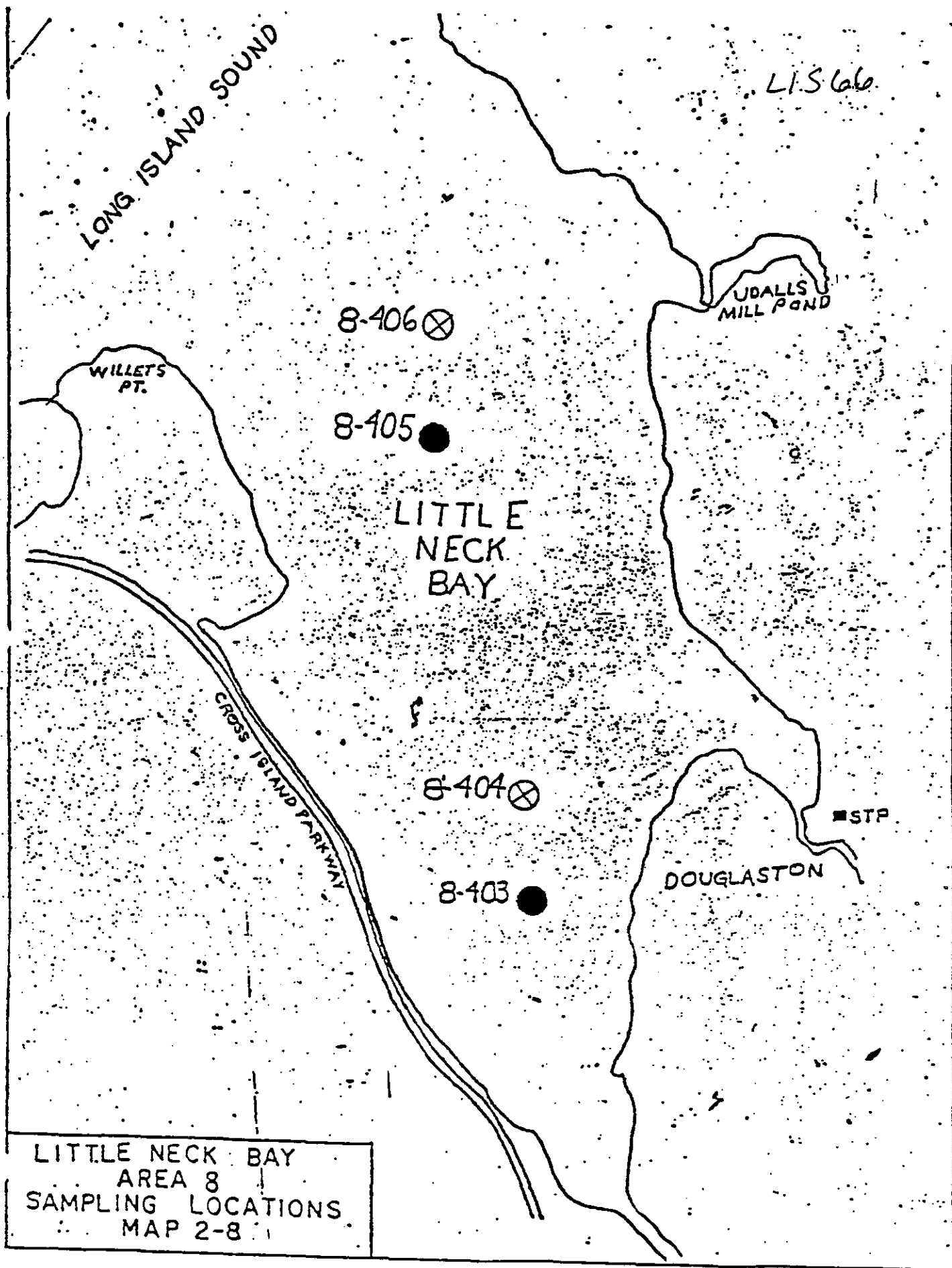


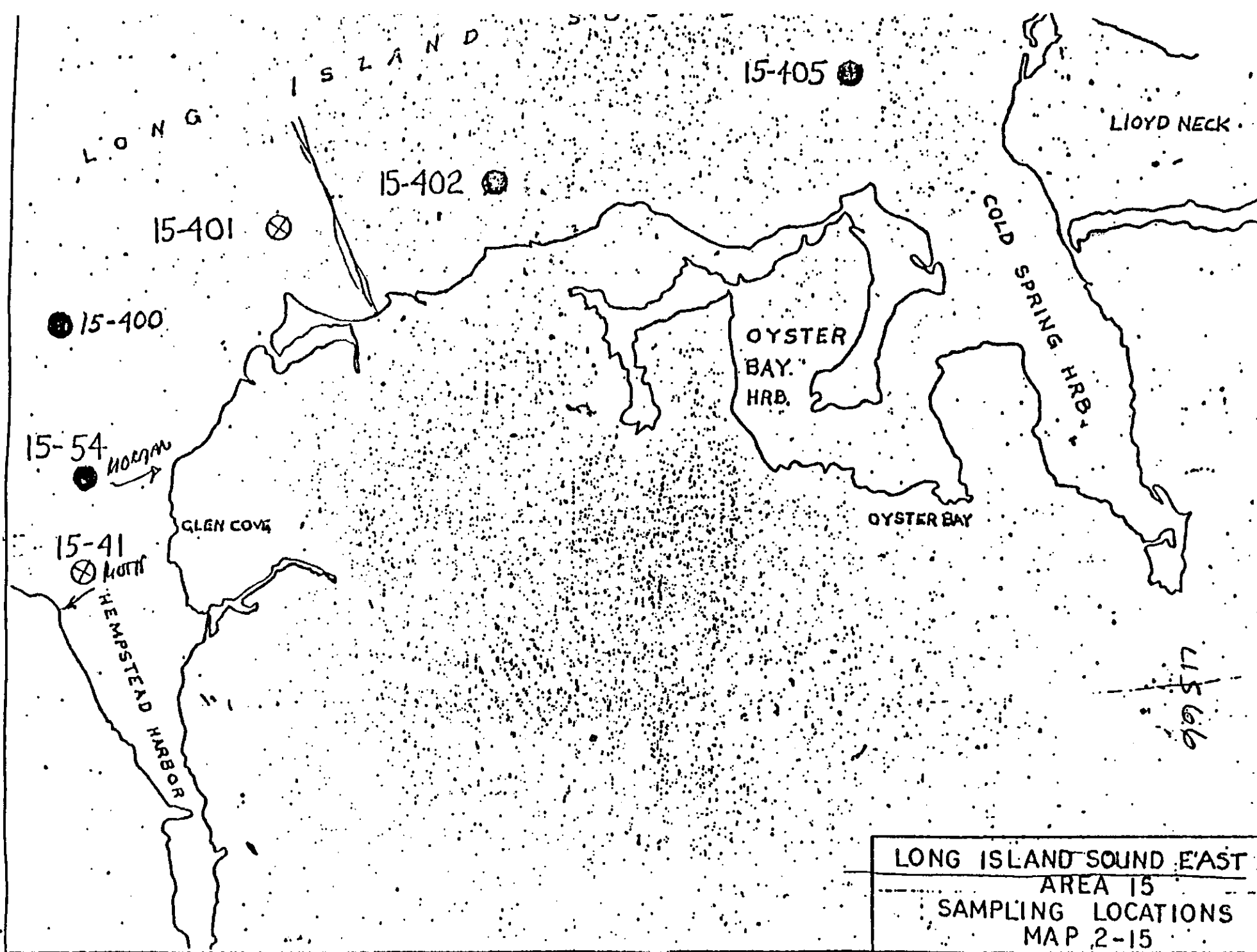
LIS.6.6.



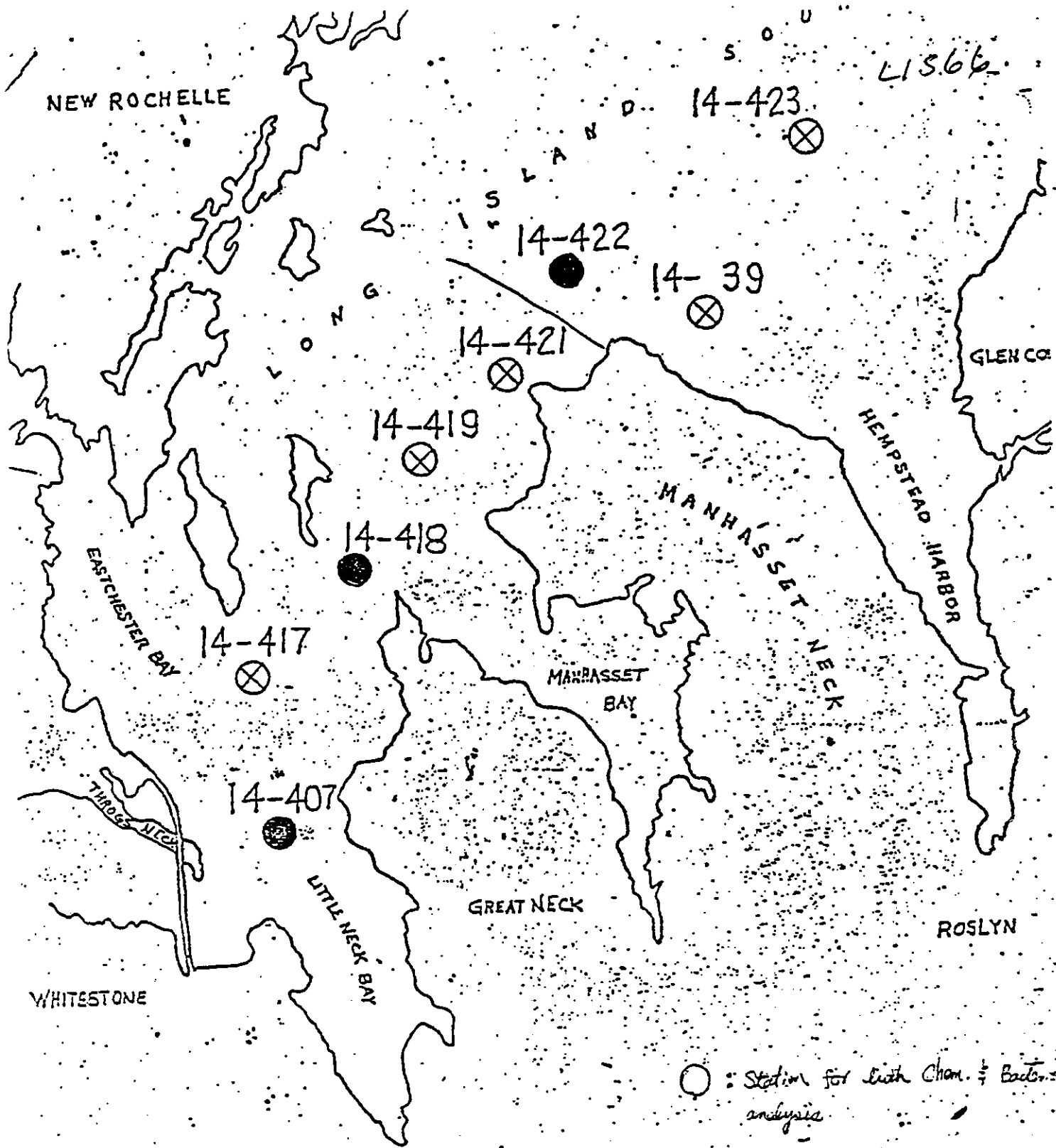
HEMPSTEAD HARBOR
AREA 10 + 11
SAMPLING LOCATIONS
MAPS 2-10 + 2-11







LONG ISLAND SOUND EAST
AREA 15
SAMPLING LOCATIONS
MAP 2-15



LONG ISLAND SOUND WEST
 AREA 14
 SAMPLING LOCATIONS
 MAP 2-14

DATA CHARACTERIZATION (LIS67)
STUDY OF OXYGEN DEPLETION IN WESTERN LONG ISLAND SOUND

1. Organization Contacted: Suffolk County Dept. of Health
2. Person Contacted: Dr. Robert Nuzzi
3. Telephone No.: (516) 548-3330
4. Address of Contact: Riverhead, NY 11901
- 5. Citation:

6. Sample/Survey Type (describe frequency and/or resolution):
 - A. Station(s): 56 on-going sta; 10 discontinuous sta
 - B. Synoptic Survey: 3+ surveys/yr
 - C. Vertical Resolution: surface only
7. Time Span of Data: From: 1977 To: present
8. Data Study Area: Port Jefferson, Mt Sinai, Stony Brook Har-
bors; Huntington Bay
9. Parameters measured (describe units):

Temperature	degrees C
Salinity	ppt
Inorganic Nutrients	ug-at/l
10. Status of Data, Availability, and Cost:
 - A. Raw
 - B. Document
 - C. Computerized yes
 - D. Data Base Name
 - E. Data Products
11. Comments: Of the 56 on-going sta, 24 are in Port Jefferson Harbor; 22 are in Huntington Bay; 10 are in Mt Sinai Harbor. Ten (10) sta in Stony Brook Harbor were monitored 1977-1979. Complete monitoring data from 1980 to date are held by ISC.

• 100

(24 Stars)

LONG ISLAND SOUND

MARSH

• 180

• 170

• 110

• 130

• 120

• 160

• 150

• 140

• 260

• 190
CONSCIENCE
BAY

• 210

• 270

• 220

• 280

• 290

• 250

LITTLE
BAY

NORTH

• 200

SETAUKET
HARBOR

• 240

• 230

PORT JEFFERSON
HARBOR COMPLEX
STATION MAP
(040)

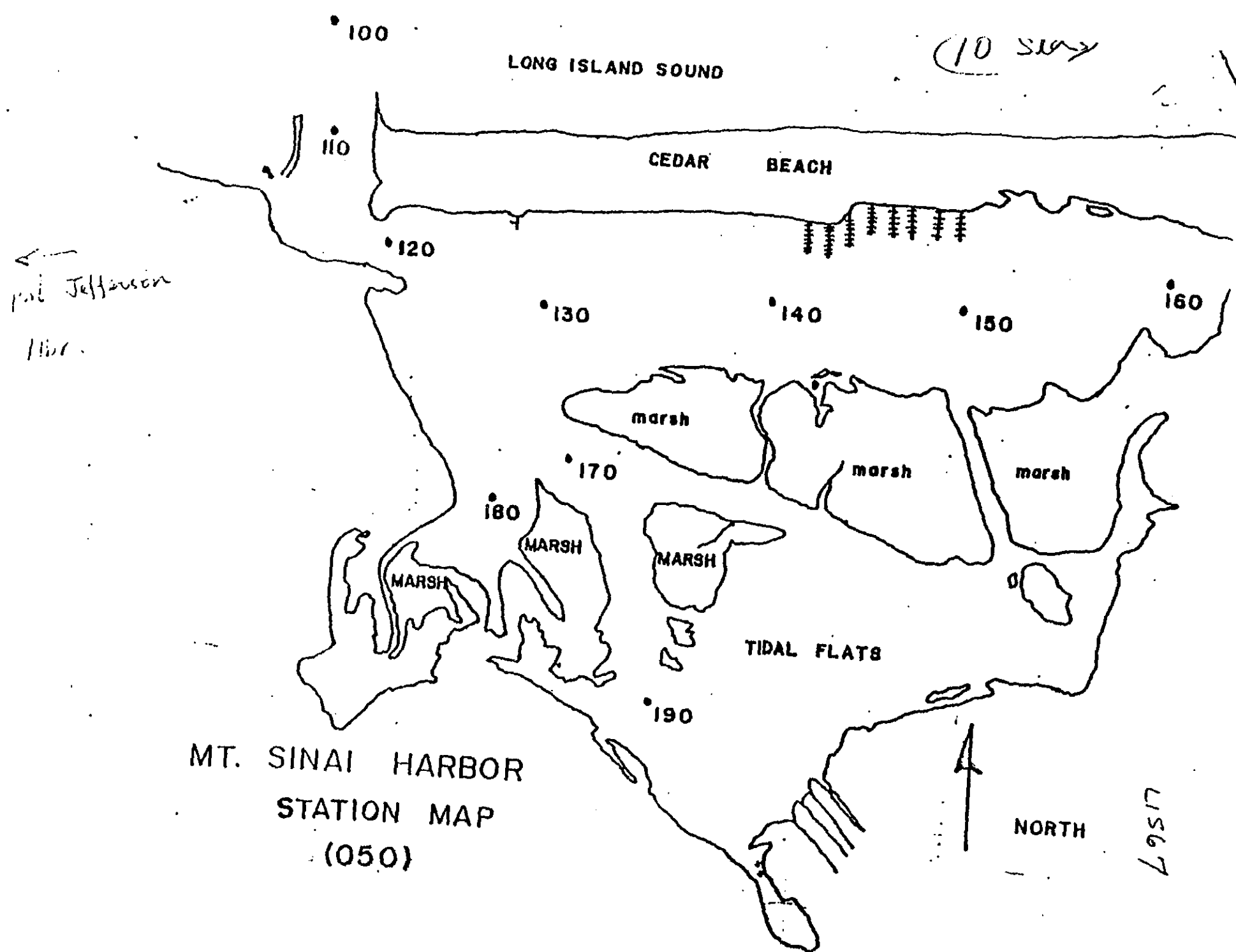
• 300

• 305

• 310

• 320

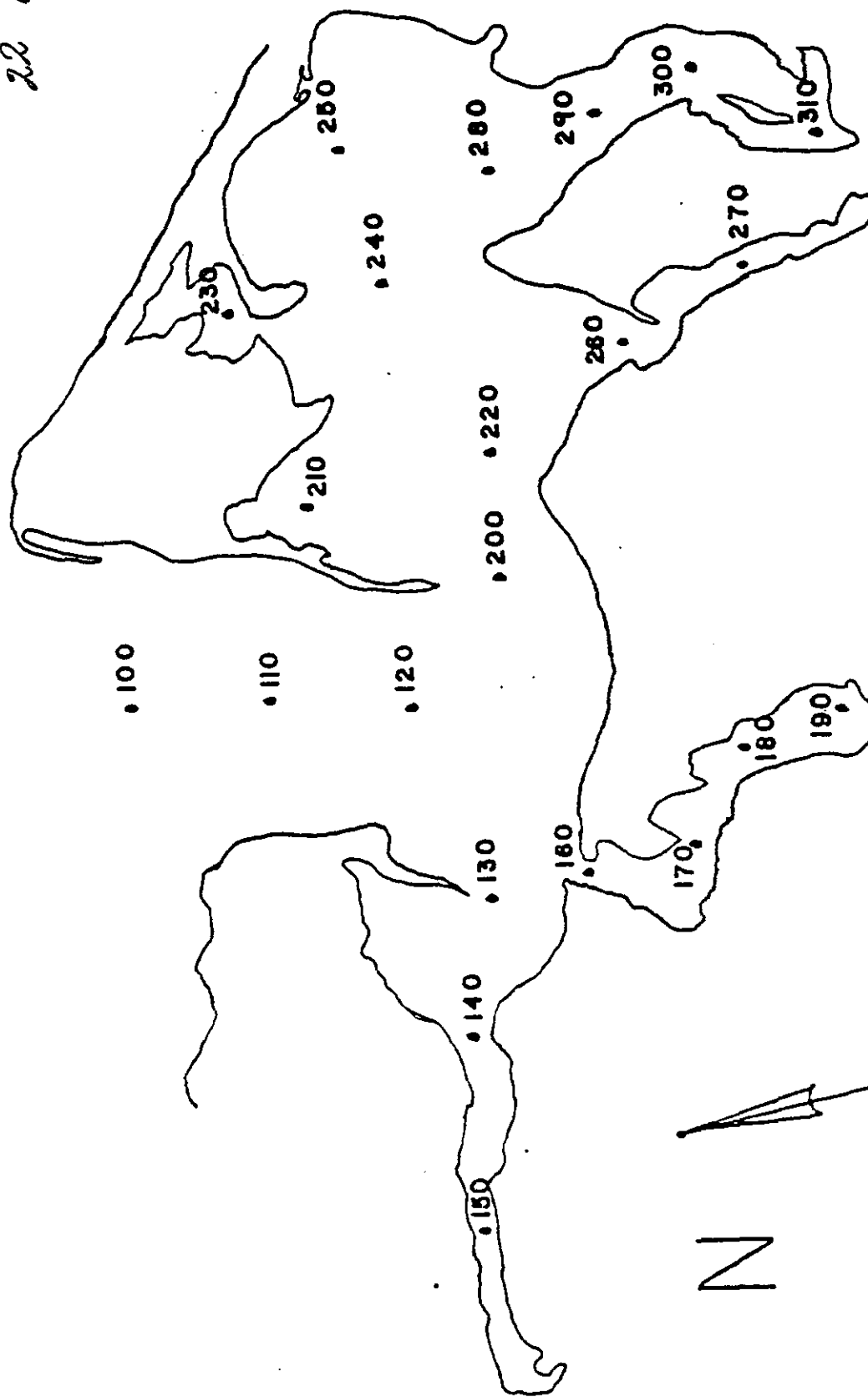
US67



22 Dec.

(22)

21567



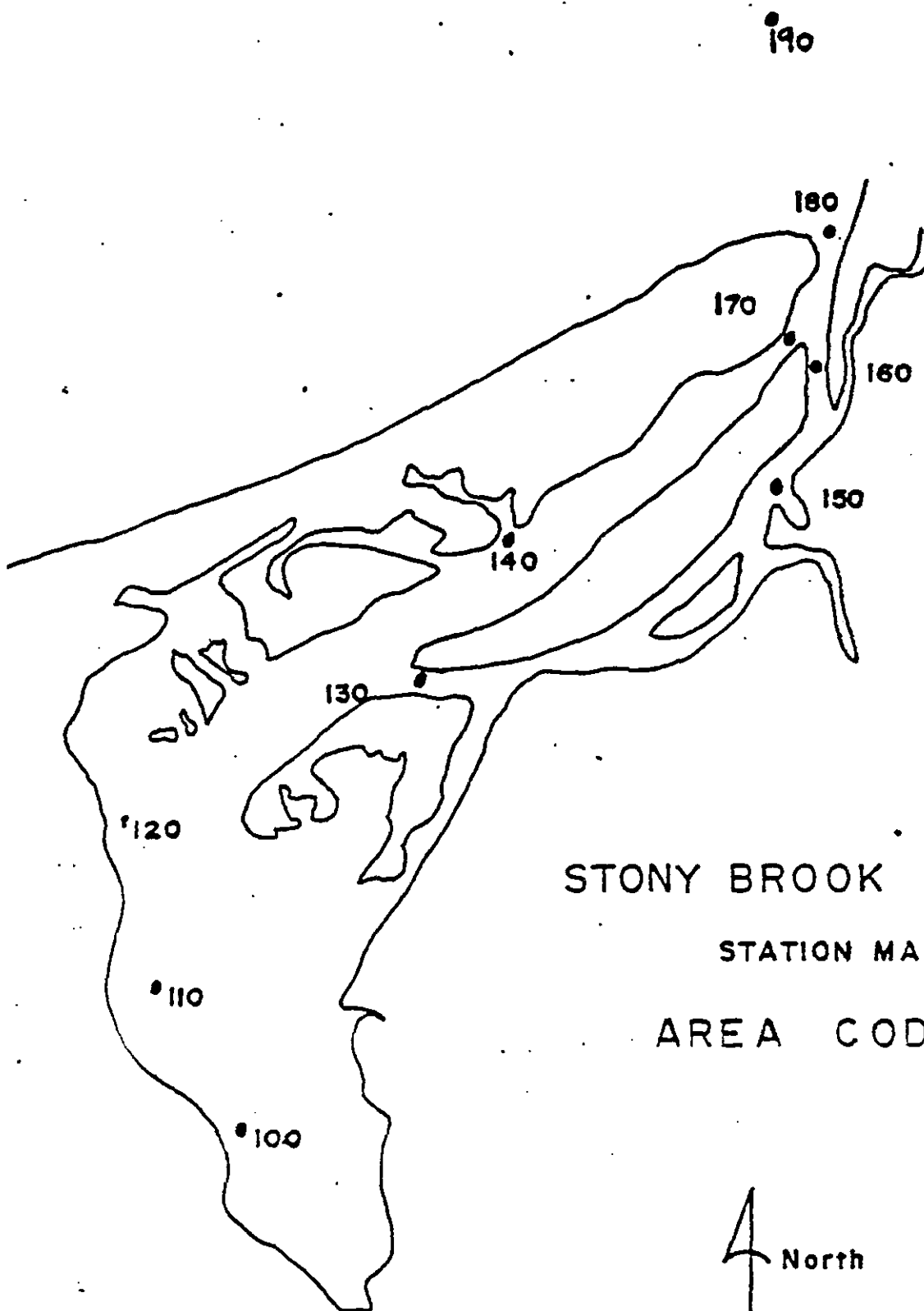
HUNTINGTON BAY COMPLEX

STATION MAP

CODE (010)

L1567

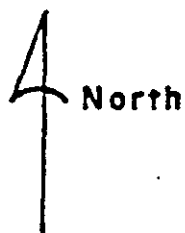
10 Sta.



STONY BROOK HARBOR

STATION MAP

AREA CODE 030



DATA CHARACTERIZATION (LIS68)
STUDY OF OXYGEN DEPLETION IN WESTERN LONG ISLAND SOUND

1. Organization Contacted: NY City Dept. Environ. Protection
2. Person Contacted: Phill Markowitz
3. Telephone No.: (212) 860-9378
4. Address of Contact:

5. Citation:

6. Sample/Survey Type (describe frequency and/or resolution):

A. Station(s): 7 sta 1940-1984; 12 sta 1984-present

B. Synoptic Survey: 1 survey/yr

C. Vertical Resolution: surface and bottom (DO);
composite (nutrients)

7. Time Span of Data: From: 1940 To: present

8. Data Study Area: East River and western Sound

9. Parameters measured (describe units):

Dissolved Oxygen mg/l

% Oxygen Saturation %

Temperature degrees F

Salinity mg/l

Inorganic Nutrients mg/l

BOD, COD mg/l

10. Status of Data. Availability, and Cost:

A. Raw

B. Document annual reports held by ISC

C. Computerized yes

D. Data Base Name

E. Data Products

11. Comments: Sta E4 to E10 were sampled 1940 to present; sta E11 to E15 were added in 1984. The monitoring program is

still active.

L1568

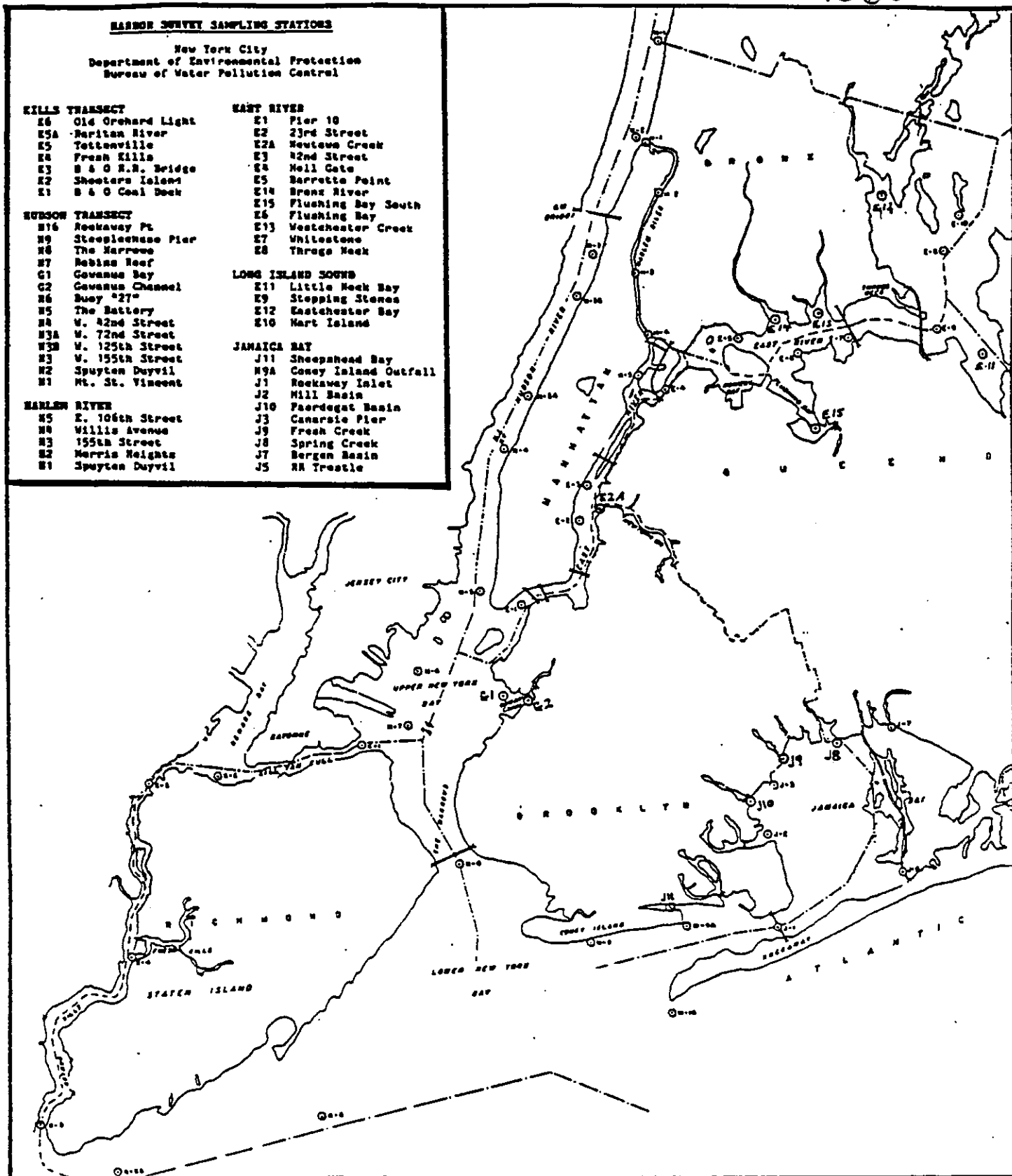


Figure A-1. Map of Harbor Survey sampling stations.

DATA CHARACTERIZATION (LIS69)
STUDY OF OXYGEN DEPLETION IN WESTERN LONG ISLAND SOUND

1. Organization Contacted: Westchester County Dept. of Health
2. Person Contacted: Mr. John D'Aquino
3. Telephone No.: (914) 285-5035
4. Address of Contact: County Office Building 2, 112 E. Post Rd.
White Plains, NY 10601

5. Citation:

6. Sample/Survey Type (describe frequency and/or resolution):

- A. Station(s): 42 sta
- B. Synoptic Survey: 4+ surveys/yr
- C. Vertical Resolution: surface

7. Time Span of Data: From: 1972 To: present

8. Data Study Area: Byram River; Mamaroneck, Port Chester,
Larchmont Harbors; Echo Bay; western Sound

9. Parameters measured (describe units):

- | | |
|------------------|-----------|
| Dissolved Oxygen | mg/l |
| Temperature | degrees F |
| Phosphate | mg/l |

10. Status of Data, Availability, and Cost:

- A. Raw 1980-1985 data held by ISC
- B. Document
- C. Computerized
- D. Data Base Name
- E. Data Products

11. Comments: The monitoring program is still active.

DATA CHARACTERIZATION (LIS70)
STUDY OF OXYGEN DEPLETION IN WESTERN LONG ISLAND SOUND

1. Organization Contacted: Conn. Dept. Environ. Protection
2. Person Contacted: Mr. Fred Bank
3. Telephone No.: (203) 566-2588
4. Address of Contact: 165 Capitol Ave., Hartford, CT 06106
-
5. Citation:-----
6. Sample/Survey Type (describe frequency and/or resolution):
 - A. Station(s): 2 sta
 - B. Synoptic Survey: 4 surveys/yr
 - C. Vertical Resolution: surface only
7. Time Span of Data: From: 1974 To: present
8. Data Study Area: New Haven and Stamford Harbors, CT
9. Parameters measured (describe units):

Dissolved Oxygen	mg/l
% Oxygen Saturation	%
Temperature	degrees C
Salinity	ppt
Inorganic Nutrients	mg/l
10. Status of Data, Availability, and Cost:
 - A. Raw
 - B. Document annual reports 1980-1983 held by ISC
 - C. Computerized
 - D. Data Base Name
 - E. Data Products
11. Comments: Results were published annually and are part of the USGS water quality survey program. The monitoring program for these 2 sta is still active.

DATA CHARACTERIZATION (LIS71)
STUDY OF OXYGEN DEPLETION IN WESTERN LONG ISLAND SOUND

1. Organization Contacted: Conn. Dept. Environ. Protection
2. Person Contacted: Mr. Paul Stacey
3. Telephone No.: (203) 566-2588
4. Address of Contact: 165 Capitol Ave., Hartford, CT 06106
- 5. Citation:

- 6. Sample/Survey Type (describe frequency and/or resolution):
 - A. Station(s): 15 sta; 4 data samplings/survey
 - B. Synoptic Survey: 2 surveys: 4/22/80 and 8/19/80
 - C. Vertical Resolution: composite of surface and mid-depth
- 7. Time Span of Data: From: 4/22/80 To: 8/19/80
- 8. Data Study Area: Branford River, CT, treatment plant outfall
- 9. Parameters measured (describe units):

Inorganic Nutrients mg/l
- 10. Status of Data, Availability, and Cost:
 - A. Raw Hard copy of survey data held by ISC
 - B. Document
 - C. Computerized
 - D. Data Base Name
 - E. Data Products
- 11. Comments: Done by TR Environmental Consultants, Inc.

21371

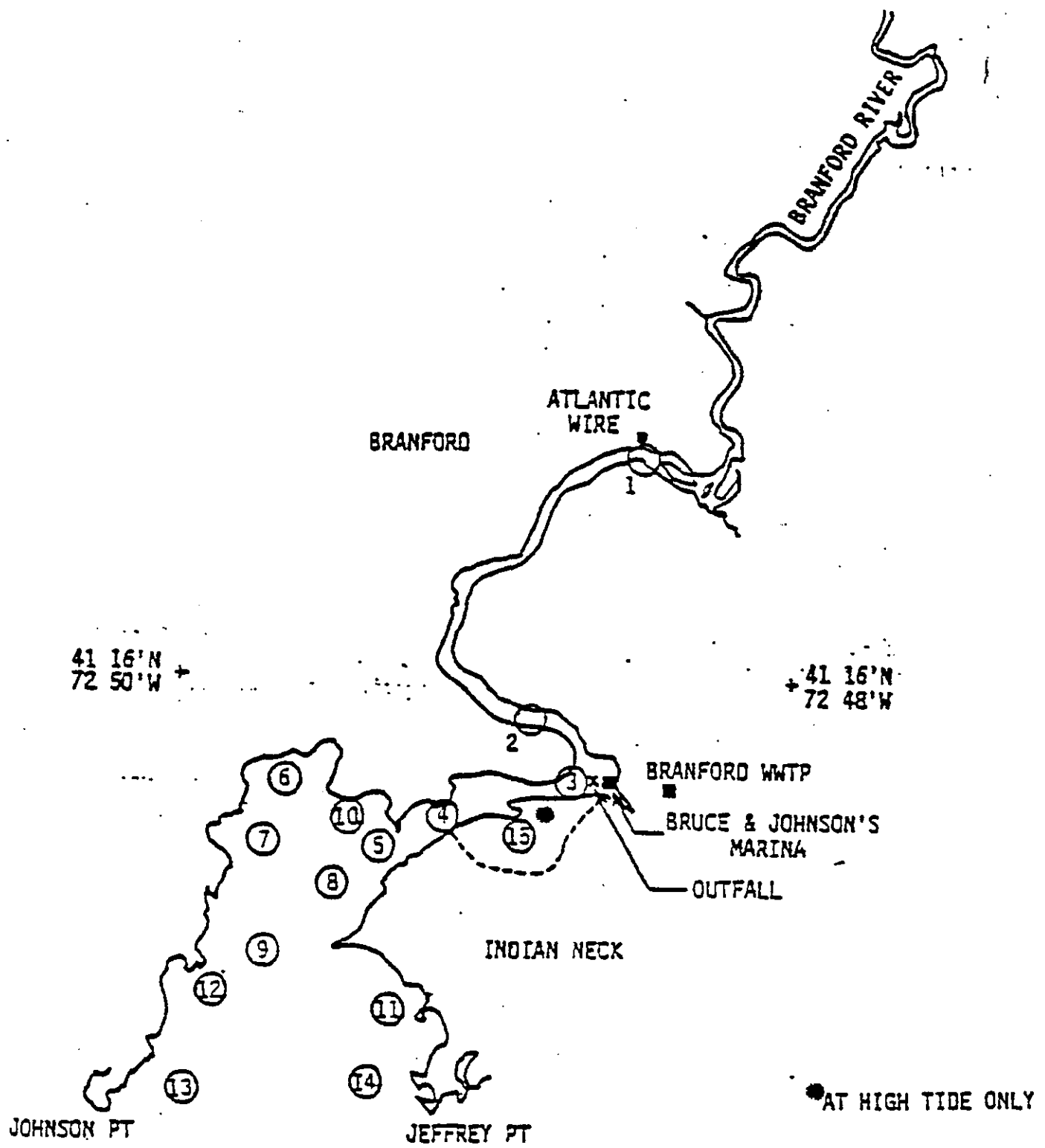


FIGURE 3-3 :
WATER QUALITY SAMPLING STATIONS FOR 1980 SURVEYS

DATA CHARACTERIZATION (L1572)
STUDY OF OXYGEN DEPLETION IN WESTERN LONG ISLAND SOUND

1. Organization Contacted: Conn. Dept. Environ. Protection
2. Person Contacted: Mr. Paul Stacey
3. Telephone No.: (203) 566-2588
4. Address of Contact: 165 Capitol Ave., Hartford, CT 06106

5. Citation:

6. Sample/Survey Type (describe frequency and/or resolution):

- A. Station(s): 3 sta
B. Synoptic Survey: 1 survey
C. Vertical Resolution: surface only

7. Time Span of Data: From: 10/30/85 To: 10/30/85

8. Data Study Area: Bridgeport Harbor, CT

9. Parameters measured (describe units):

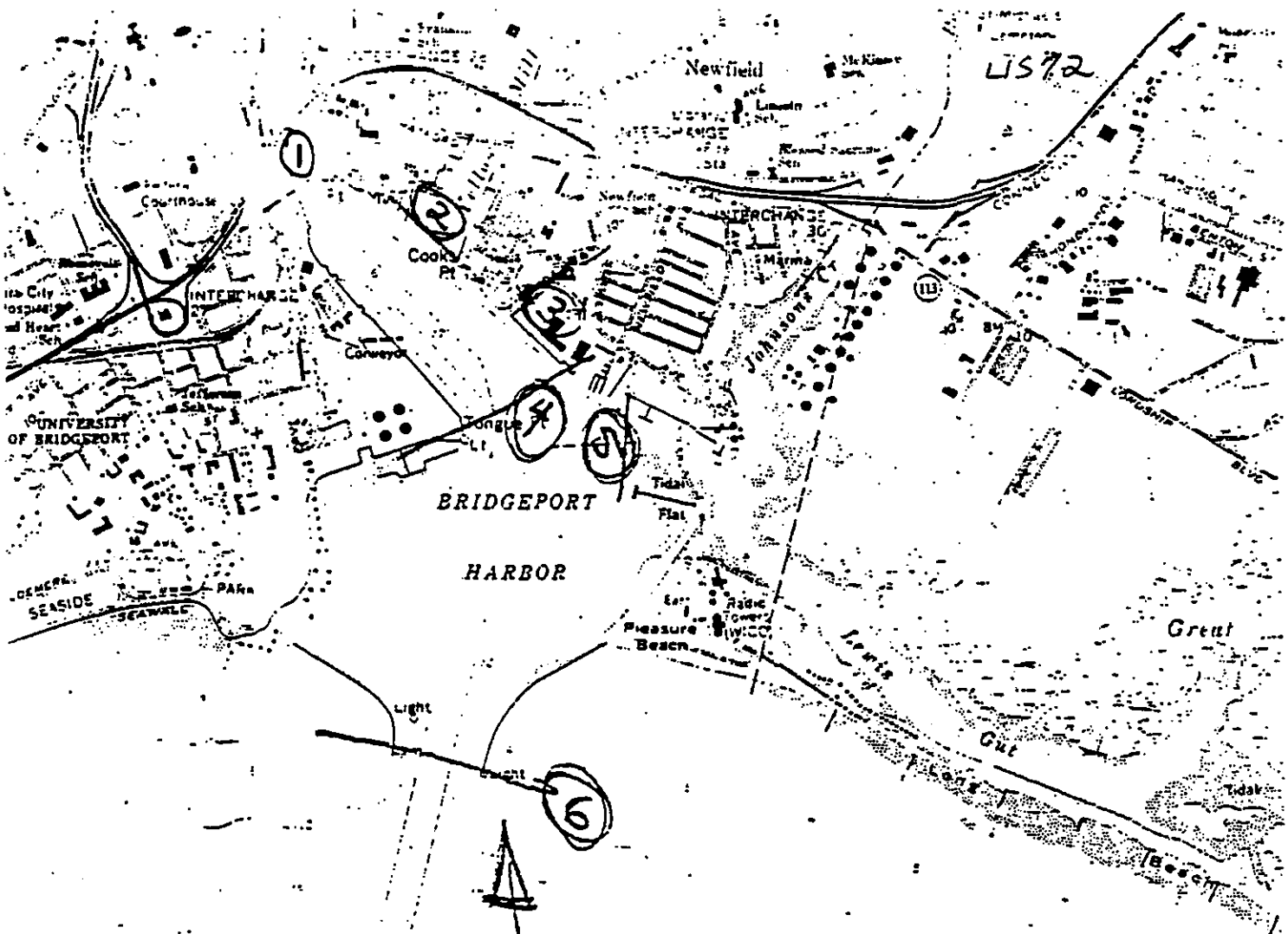
- Inorganic Nutrients mg/l
BOD, COD mg/l

10. Status of Data, Availability, and Cost:

- A. Raw Complete survey data held by ISC
B. Document
C. Computerized
D. Data Base Name
E. Data Products

11. Comments:

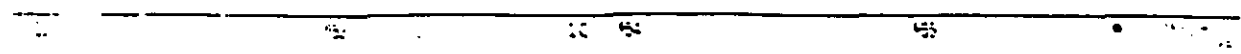
US 72



probe w...

ISLAND SOUND

1000 ft



DATA CHARACTERIZATION (LIS73)
STUDY OF OXYGEN DEPLETION IN WESTERN LONG ISLAND SOUND

1. Organization Contacted: Conn. Dept. Environ. Protection
2. Person Contacted: Mr. Paul Stacey
3. Telephone No.: (203) 566-2588
4. Address of Contact: 165 Capitol Ave., Hartford, CT 06106

5. Citation:

6. Sample/Survey Type (describe frequency and/or resolution):

A. Station(s): 6 sta; 5+ samples/survey

B. Synoptic Survey: 2 surveys

C. Vertical Resolution: surface to bottom

7. Time Span of Data: From: 07/19/84 To: 07/23/85

8. Data Study Area: Stamford Harbor, CT

9. Parameters measured (describe units):

Dissolved Oxygen mg/l

Temperature degrees C

Salinity ppt

Inorganic Nutrients mg/l

10. Status of Data, Availability, and Cost:

A. Raw Complete survey data held by ISC

B. Document

C. Computerized

D. Data Base Name

E. Data Products

11. Comments: Treatment plant outfall study for the town of Stamford, CT.

DATA CHARACTERIZATION (LIS74)
STUDY OF OXYGEN DEPLETION IN WESTERN LONG ISLAND SOUND

1. Organization Contacted: Conn. Dept. Environ. Protection
2. Person Contacted: Mr. Paul Stacey
3. Telephone No.: (203) 566-2588
4. Address of Contact: 165 Capitol Ave., Hartford, CT 06106

5. Citation:

6. Sample/Survey Type (describe frequency and/or resolution):

A. Station(s): 4 sta; 2 runs/survey

B. Synoptic Survey: 1 survey

C. Vertical Resolution: surface, mid-depth, bottom

7. Time Span of Data: From: 10/17/85 To: 10/17/85

8. Data Study Area: Blackrock Harbor, CT

9. Parameters measured (describe units):

Dissolved Oxygen mg/l

Temperature degrees C

Salinity opt

Inorganic Nutrients mg/l

10. Status of Data, Availability, and Cost:

A. Raw Complete survey data held by ISC

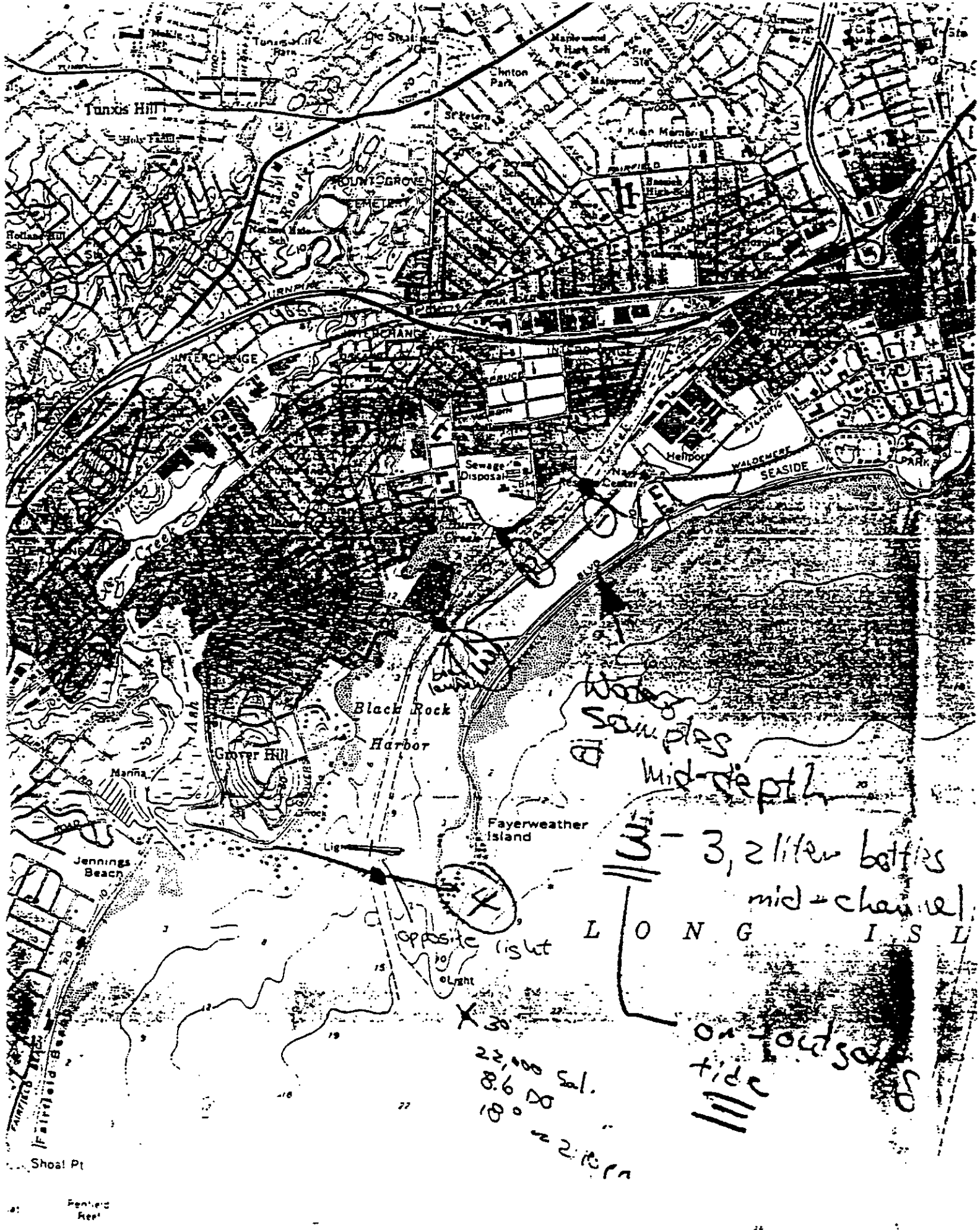
B. Document

C. Computerized

D. Data Base Name

E. Data Products

11. Comments:



DATA CHARACTERIZATION (LIS75)
STUDY OF OXYGEN DEPLETION IN WESTERN LONG ISLAND SOUND

1. Organization Contacted: Long Island Lighting Co.
2. Person Contacted: Mr. Chris Gross
3. Telephone No.: (516) 420-6097
4. Address of Contact: 1660 Walt Whitman Rd, Melville, NY 11747
5. Citation: -----
6. Sample/Survey Type (describe frequency and/or resolution):
 - A. Station(s): 3 sta
 - B. Synoptic Survey: 12+ surveys/yr
 - C. Vertical Resolution: surface and bottom
7. Time Span of Data: From: 1977 To: present
8. Data Study Area: Shoreham Plant Site, NY
9. Parameters measured (describe units):

Dissolved Oxygen	mg/l
Temperature	degrees C
Salinity	ppt
Inorganic Nutrients	mg/l
10. Status of Data, Availability, and Cost:
 - A. Raw
 - B. Document 1980-1992 annual reports held by ISC
 - C. Computerized
 - D. Data Base Name
 - E. Data Products
11. Comments: The monitoring program is still active.

INDEX BY POLITICAL/GEOGRAPHIC AREA

LIS numbers

CONNECTICUT. coastal.....	6. 23. 55. 56
Blackrock Harbor.....	74
Branford River (outfall).....	71
Bridgeport Harbor.....	42. 72
Housatonic River.....	19
Mumford Cove.....	46
New Haven Harbor.....	1. 44. 49. 50. 70
Niantic River and Estuary.....	48. 52. 54
Stamford Harbor.....	20. 45. 53. 70. 73
Thames River and Estuary.....	47. 51. 63. 64
EASTERN SOUND.....	61. 63. 66
NEW YORK. coastal.....	13. 14. 15. 16. 17. 18. 57
Blind Brook.....	21
Byram River.....	69
Cold Spring Harbor.....	66
Eatons Neck Disposal Site.....	40
Echo Bay.....	69
Hart Island.....	5. 7
Hempstead Harbor.....	10. 33
Huntington Harbor.....	33. 67
Huntington-Northport.....	11
Larchmont Harbor.....	69
Little Neck Bay.....	33. 66
Mamaroneck Harbor.....	69

LIS numbers

Manhasset Bay.....	33, 66
Mount Sinai Harbor.....	33, 67
Newtown Creek.....	2
Northport.....	37
Oyster Bay Harbor.....	66
Parsonage-Matinecock Point.....	9
Port Chester Harbor.....	69
Port Jefferson Harbor.....	12, 22, 33, 67
Shoreham, L.I.....	3, 75
Stony Brook Harbor.....	67
Throgs Neck.....	4, 8
WESTERN SOUND.....	28, 39, 65, 66, 68

INDEX OF SECTIONS

LIS numbers

East-West Sections.....	24. 25. 31. 32. 34. 35. 36. 60.62
North-South Sections.....	27
East-West and North-South Sections.....	26. 29.30.38