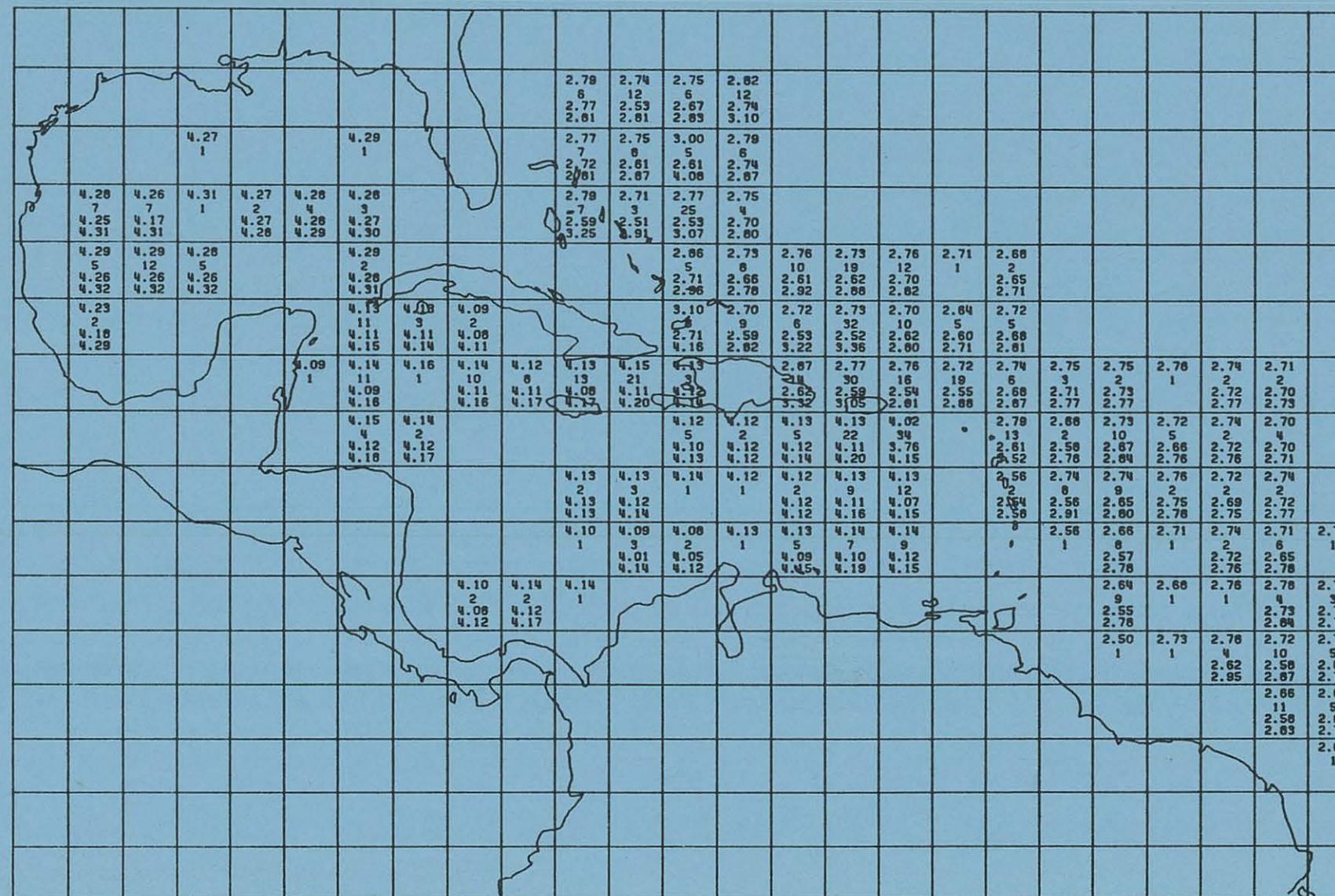




CICAR Regional Data Center

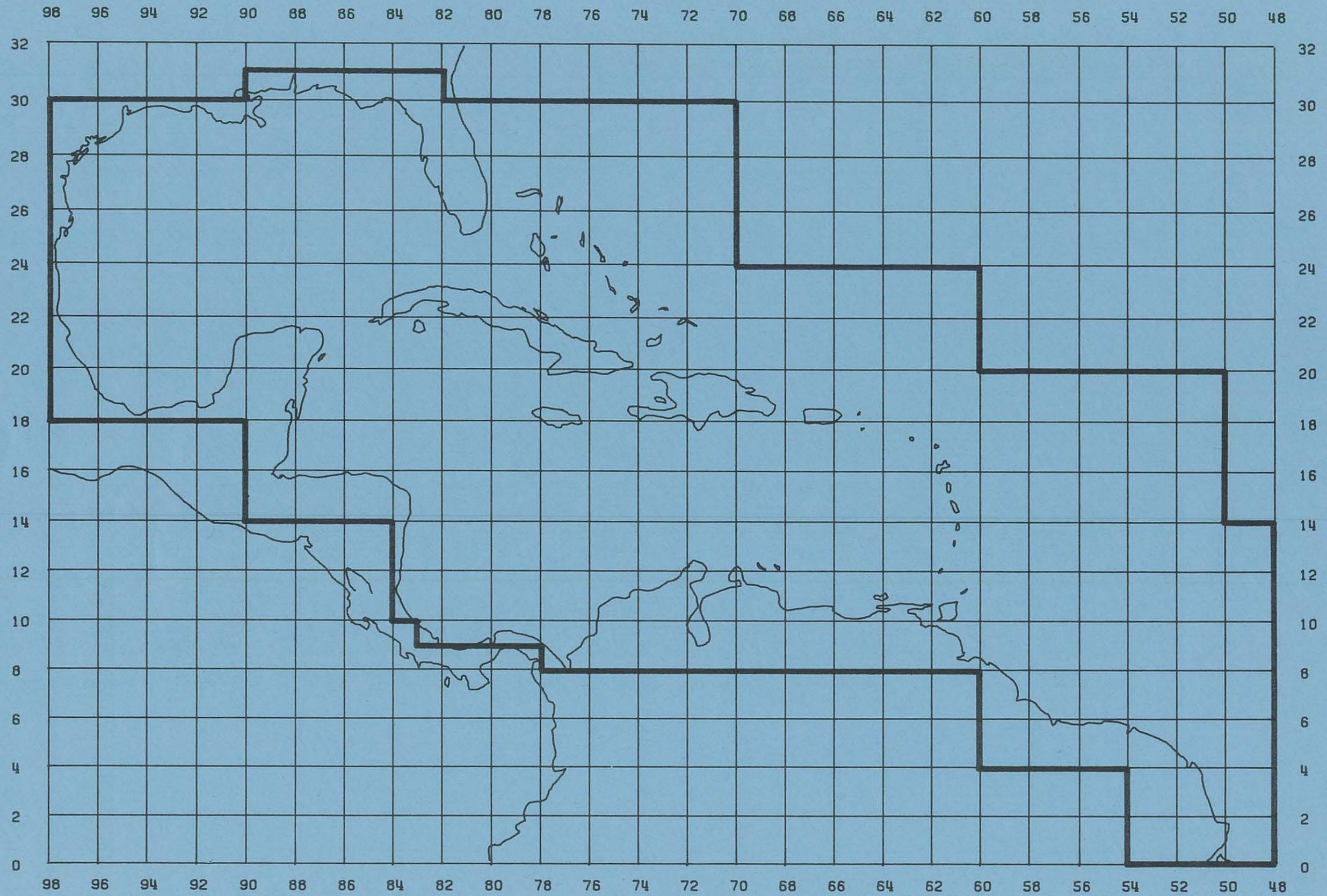
GUIDE TO CICAR DATA

May 1977
Washington, D.C. 20235 U.S.A.



U.S. DEPARTMENT OF COMMERCE / National Oceanic and Atmospheric Administration / Environmental Data Service

CICAR AREA CHART





GUIDE TO CICAR DATA

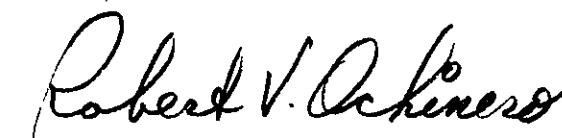
CICAR REGIONAL DATA CENTER
National Oceanographic Data Center
Washington, D.C. 20235 U.S.A.

May 1977

PREFACE

At the second meeting of the International Coordination Group for Cooperative Investigations of the Caribbean and Adjacent Regions (ICG CICAR) in 1969, the U.S. National Oceanographic Data Center (NODC) was designated, in collaboration with the co-located World Data Center-A, Oceanography, as the Regional Data Center for CICAR (RDC CICAR). It was also agreed at that ICG meeting and at subsequent meetings that CICAR participants would submit standard CICAR inventory reports for all types of data and samples to either the WDC-A, Oceanography, or the RDC CICAR shortly after their collection. Most types of data were also to be sent to the RDC CICAR as soon as processed, and whenever applicable, in agreed-upon standard formats. This early plan for the management of CICAR data has worked well in most respects. Large numbers of data have been reported on inventory forms, and in the case of physical and chemical data, more data have actually been received by the RDC than have been reported on inventories.

The purpose of the present Guide is to inform oceanographic activities in the Member States of IOC that participated in CICAR, and other interested countries, of the data resulting from oceanographic investigations conducted during that period. It is also intended to draw attention to the types of data that were transmitted to the RDC CICAR and are now available from that Center.



Robert V. Ochinero
Director
RDC NODC

INTRODUCTION

The Guide to CICAR Data is the final report from the Regional Data Center for CICAR (RDC CICAR).

The Guide is divided into two parts: Part I contains an inventory of the data collected by the countries participating in CICAR and reported and/or submitted to the Regional Data Center as of November 1976. This inventory is subdivided further as follows:

Inventory of Reports and Data

A general summary of CICAR data by country and by year, including a comparison of data reported on inventories with that received by the RDC from 1969 to 1975.

Distribution of Station Data, MBTs, and XBTs

A series of charts showing the location of data archived at the RDC and the number of observations within each 1° rectangle. Station and MBT data are displayed for the CICAR years and, for purposes of comparison, for all years for which the data are available at the U.S. NODC. XBT data are only displayed for the CICAR years.

Cruise Inventory

An inventory of all CICAR cruises listed by country and by ship for all types of data. Shown also is the number of observations reported in the inventories versus the number actually submitted to the RDC CICAR.

Part II of the Guide shows the annual average, maximum, minimum, and number of observations for temperature, salinity, and density (σ_t) based on all fully processed Station/STD/CTD data from the CICAR area available from the NODC as of January 1976. The data were compiled by 2° rectangles and for the 0-, 50-, 100-, 200-, 300-, 500-, 700-, 1000-, 1200-, 1500-, 2000-, and 3000-meter standard depths.

These charts, which were prepared for the CICAR II Symposium, are included here as a supplemental, special type of historical inventory characteristic of the physical-chemical data base available from the NODC.

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PART I

Inventory of Reports and Data

Eleven of the countries participating in CICAR submitted Data Inventory reports and data to the RDC CICAR, either directly or through WDC-A, Oceanography.

These submissions were made by the National Oceanographic Data Centers or the Declared National Agencies of the countries concerned and followed the guidelines recommended by the IOC "Manual on International Oceanographic Data Exchange."

The CICAR Area Chart shows the limits of the CICAR area as defined for the purpose of these inventories. Only data falling within these limits are included in the totals.

Table I, "Inventory Reports and Data Received by RDC CICAR by Country for 1969-1975" summarizes by country and by type of data the data inventoried and received for that period and the grand total for all countries combined. It is obvious from Table I that the flow of data into the RDC CICAR archives has been quite satisfactory for the classical oceanographic data. However, the less commonly exchanged and less standardized data such as primary production and geological observations, etc., for the most part have not been submitted to the RDC. The identity of the institutions holding data inventoried but not submitted to the RDC can be determined from Part I of this report, Cruise Inventory.

Table II, "Inventory Reports and Data Received by RDC CICAR by Year for 1969-1975" shows data and inventories for three major data types--Station Data/STD/CTD, XBT, and MBT, accessioned by the RDC CICAR. The CICAR data collection effort for Station and XBT Data seems to peak in 1973 and then decrease dramatically. The collection of MBTs has been declining steadily, presumably because MBTs are being phased out and replaced by the more accurate XBTs. The amount of data inventoried in 1974 and 1975 exceeded the amount of data received presumably due to a lag in data submission. For example, at least 450 inventoried station data (mainly STDs) are still outstanding. The trend in the transmission of CICAR inventory reports, which began in 1973, also decreased. For example, that same year, of 2,326 CICAR stations actually received by the RDC CICAR, only 1,472 had been previously identified as CICAR data on the inventory forms.

Table III, "Processed Data in CICAR Area Archived on Magnetic Tape (as of November 1976)" shows both the total Station/STD/CTD, XBT, and MBT Data fully processed by the RDC CICAR and available on magnetic tape for the CICAR period and the totals for all years of data available in the NODC geographically-sorted, magnetic tape files. The totals in Table III reflect the status of the data as of November 1976.

Table III indicates that the data archived at the NODC during the CICAR represent a 40% increase in the quantity of data previously available from that area. This percentage can be expected to become even greater when the outstanding CICAR data are transmitted to the RDC CICAR.

TABLE I.--INVENTORY REPORTS AND DATA RECEIVED
BY RDC CICAR BY COUNTRY FOR 1969-1975

<u>BRAZIL</u>	<u>Data reported on inventories</u>	<u>Data actually received</u>	<u>COLOMBIA</u>	<u>Data reported on inventories</u>	<u>Data actually received</u>
Stations (Nansen)	152	143	Stations (Nansen)	168	150
STD	43	0	Mech. BT	93	57
Mech. BT	270	85	Phytoplankton	66	0
Current	17	0	Primary Productivity	50	0
Zoobenthos	75	0	Drift Bottles	18	0
Phytobenthos	75	0	<u>CUBA</u>		
Geology	478	116	Stations (Nansen)	225	292
Pollution	66	0	Mech. BT	141	0
			Zoobenthos	38	0
			Fisheries Observations	90	0
			Current	2	0
			Ichthyoplankton	84	0
<u>CANADA</u>			<u>MEXICO</u>		
Stations (Nansen)	139	136	Stations (Nansen)	1092	394
Mech. BT	195	0	STD	33	0
Zooplankton	673	0	XBT	182	12
Micronekton	673	0	Mech. BT	378	0
Geology	6	0	Zooplankton	495	0
Pollution	52	0	Phytoplankton	507	0
Fisheries Observations	19	0	Primary Productivity	161	0
			Current	237	0
			Fisheries Observations	38	0
			Drift Bottles	3300	0

TABLE I (Cont'd.)

<u>MEXICO</u>	<u>Data reported on inventories</u>	<u>Data actually received</u>	<u>UNION OF SOVIET SOCIALIST REPUBLICS</u>	<u>Data reported on inventories</u>	<u>Data actually received</u>	
Neuston	38	0	Stations (Nansen)	525	1224	
Ichthyoplankton	87	0	Mech. BT	655	83	
Magnetism *	1833	0	Zooplankton	28	26	
Bathymetry *	2121	0	Phytoplankton	78	78	
<u>NETHERLANDS</u>						
Stations (Nansen)	169	140	Primary Productivity	35	35	
STD	139	0	Geology	98	97	
XBT	76	108	Current	388	0	
Mech. BT	1536	1330	<u>UNITED KINGDOM</u>			
Zooplankton	961	0	Stations (Nansen)	15	15	
Phytoplankton	961	0	STD	44	45	
Micronekton	961	0	XBT	268	268	
Drift Bottles	560	0	Mech. BT	64	64	
Zoobenthos	180	0	Zooplankton	5	0	
Geology	1050	0	Current	68	106	
Primary Productivity	460	0	Geology	231	569	
Current	19	0	Gravimetry*	X	6320	
Fisheries Observations	X	0	Magnetism*	X	6761	
Gravimetry *	9600	0	Bathymetry*	5365	49227	
Magnetism *	11384	0	* in nautical miles			
Bathymetry *	40658	0				

* in nautical miles

TABLE I (Cont'd.)

<u>UNITED STATES OF AMERICA</u>	<u>Data reported on inventories</u>	<u>Data actually received</u>	<u>VENEZUELA</u>	<u>Data reported on inventories</u>	<u>Data actually received</u>
Stations (Nansen)	2809	3390	Stations (Nansen)	379	179
STD/CTD	3123	2471	Mech. BT	148	668
XBT	9578	9010	Geology	59	0
Mech. BT	2315	2068	Fisheries Observations	30	0
Zooplankton	1111	0			
Primary Productivity	50	0			
Fisheries Observations	742	0			
Phytoplankton	415	0			
Micronekton	141	0			
Current	4188	2012			
Drift Bottles	14647	716			
Geology	1775	14			
Pollution	79	0			
Zoobenthos	113	0			
Neuston	210	0			
Bongo Nets	145	0			
ICITA	225	0			
Bottom Photographs	241	0			
Animal Sounds	276	0			
Gravimetry *	59962	39410			
Magnetism *	105972	50480			
Bathymetry *	199745	39010			

* in nautical miles

TABLE I (Cont'd.)

<u>TOTAL (all countries)</u>	<u>Data reported on inventories</u>	<u>Data actually received</u>
Stations (Nansen)	5673	6103
STD/CTD	3382	2516
XBT	10104	9398
Mech. BT	5795	4355
Phytoplankton	2027	78
Zooplankton	3273	26
Micronekton	1775	0
Primary Productivity	756	35
Fisheries Observations	919	0
Current	4919	2118
Geology	3697	796
Pollution	197	0
Drift Bottles	18525	716
Zoobenthos	406	0
Phytobenthos	75	0
Ichthyoplankton	171	0
Neuston	248	0
Bongo Nets	145	0
Bottom Photographs	241	0
Animal Sounds	276	0
Gravimetry*	69562	45730
Magnetism*	119189	57241
Bathymetry*	247889	88237

*in nautical miles

TABLE II.-- INVENTORY REPORTS AND DATA RECEIVED
BY RDC CICAR BY YEAR FOR 1969-1975

	<u>1969</u>	<u>1970</u>	<u>1971</u>	<u>1972</u>	<u>1973</u>	<u>1974</u>	<u>1975</u>
Station Data/STD/CTD reported on inventory forms:	<u>351</u>	<u>1771</u>	<u>1724</u>	<u>2378</u>	<u>1472</u>	<u>832</u>	<u>527</u>
Station Data/STD/CTD received:	<u>526</u>	<u>1317</u>	<u>1739</u>	<u>1799</u>	<u>2326</u>	<u>523</u>	<u>389</u>
XBT Data reported on inventory forms:	<u>589</u>	<u>2017</u>	<u>1984</u>	<u>1920</u>	<u>1398</u>	<u>848</u>	<u>1348</u>
XBT Data received:	<u>542</u>	<u>1999</u>	<u>1358</u>	<u>1871</u>	<u>1977</u>	<u>976</u>	<u>675</u>
MBT Data reported on inventory forms:	<u>637</u>	<u>1791</u>	<u>1831</u>	<u>1038</u>	<u>372</u>	<u>126</u>	<u>0</u>
MBT Data received:	<u>1561</u>	<u>1647</u>	<u>645</u>	<u>62</u>	<u>216</u>	<u>150</u>	<u>74</u>

TABLE III.-- PROCESSED DATA IN CICAR AREA ARCHIVED ON MAGNETIC TAPE
(as of November 1976)

<u>TYPE OF DATA</u>	<u>TOTAL</u>	<u>CICAR Period (1969-75)</u>
Station Data/STD/CTD	<u>1914-1975</u> 20064	6060
XBT (digitized)	<u>1965-1975</u> 26648	>15,000 (est)
MBT (digitized)	<u>1942-1975</u> 58533	3022

Distribution of Station Data, MBTs, and XBTs

The distribution of both types of data sets is presented in two ways:

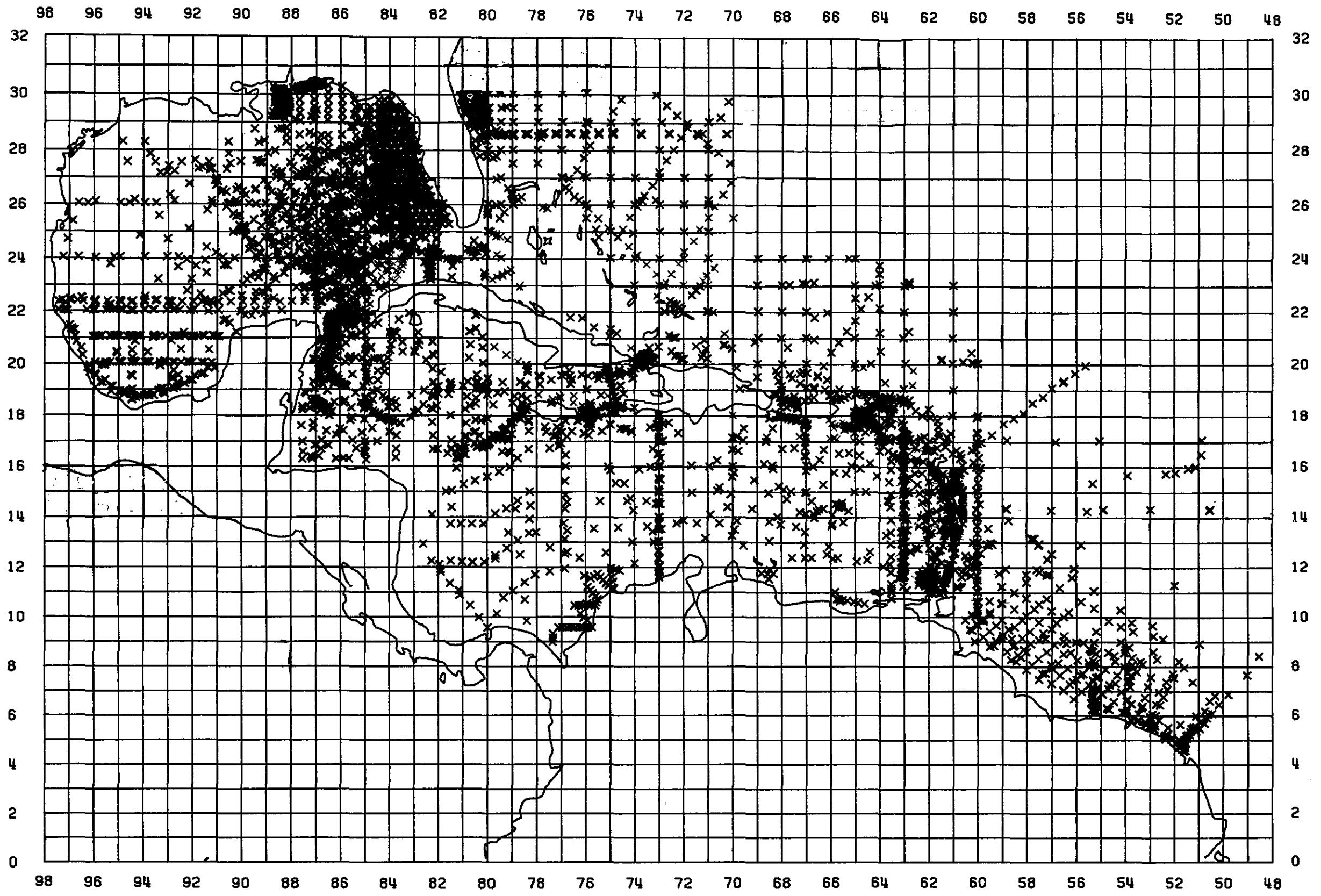
1. An "X" shows the actual geographic location of each observation.
2. A number indicates the density of observations, regardless of depth, falling within each one degree rectangle of latitude and longitude.

The XBT data effort did not really get underway until the mid-1960's and most of the available 26,000 digital XBT observations in the CICAR area were actually collected during the CICAR period.

While only about 9,400 of these data were clearly identified as having been collected as part of CICAR programs, the entire XBT file is available for applications purposes.

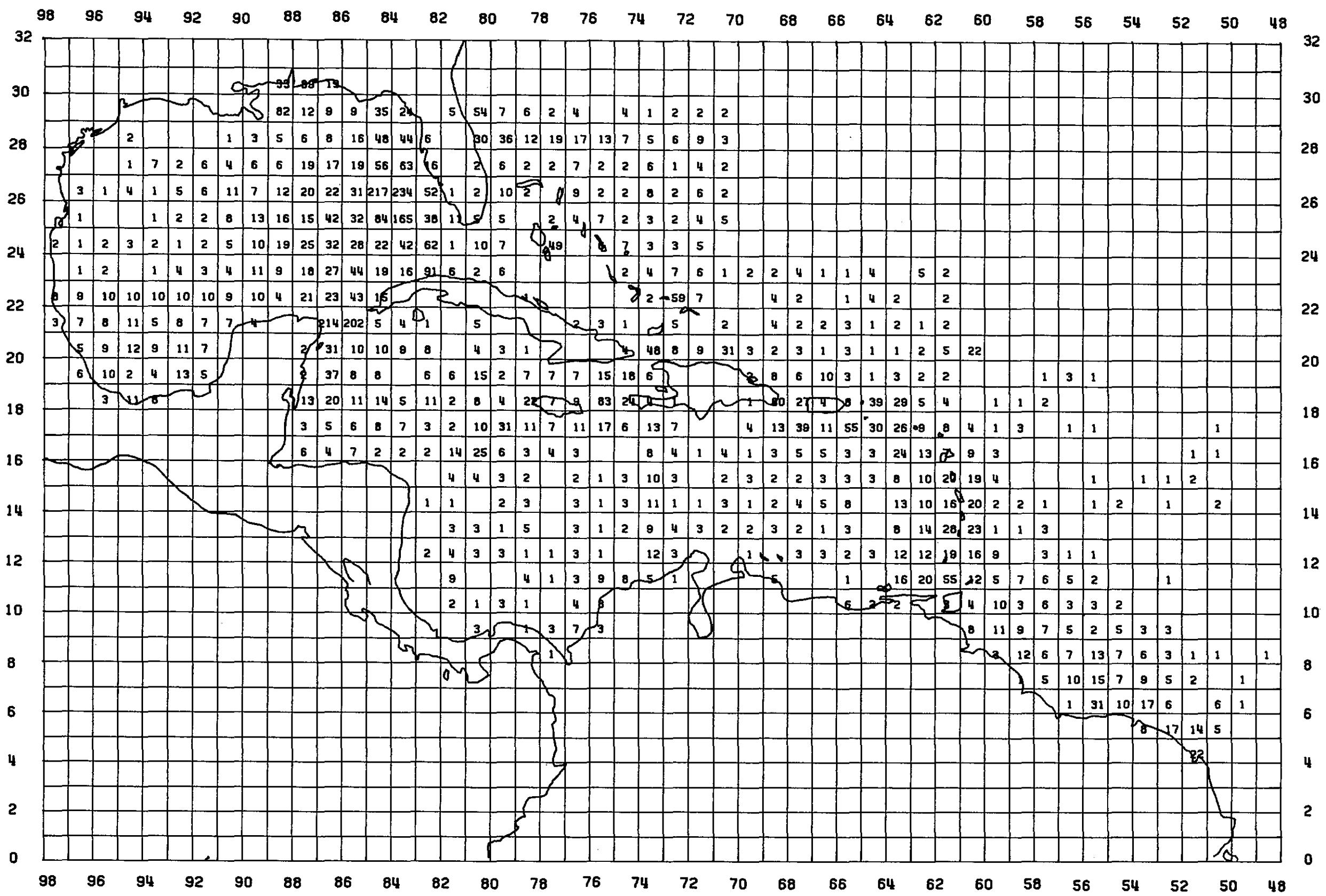
By comparison with the flood of XBT data, the volume of archived digitized MBT data collected during the CICAR period has taken a drastic downturn since 1969, increasing existing data holdings by less than 10 percent.

DISTRIBUTION OF PROCESSED STATION DATA 1969 - 1975

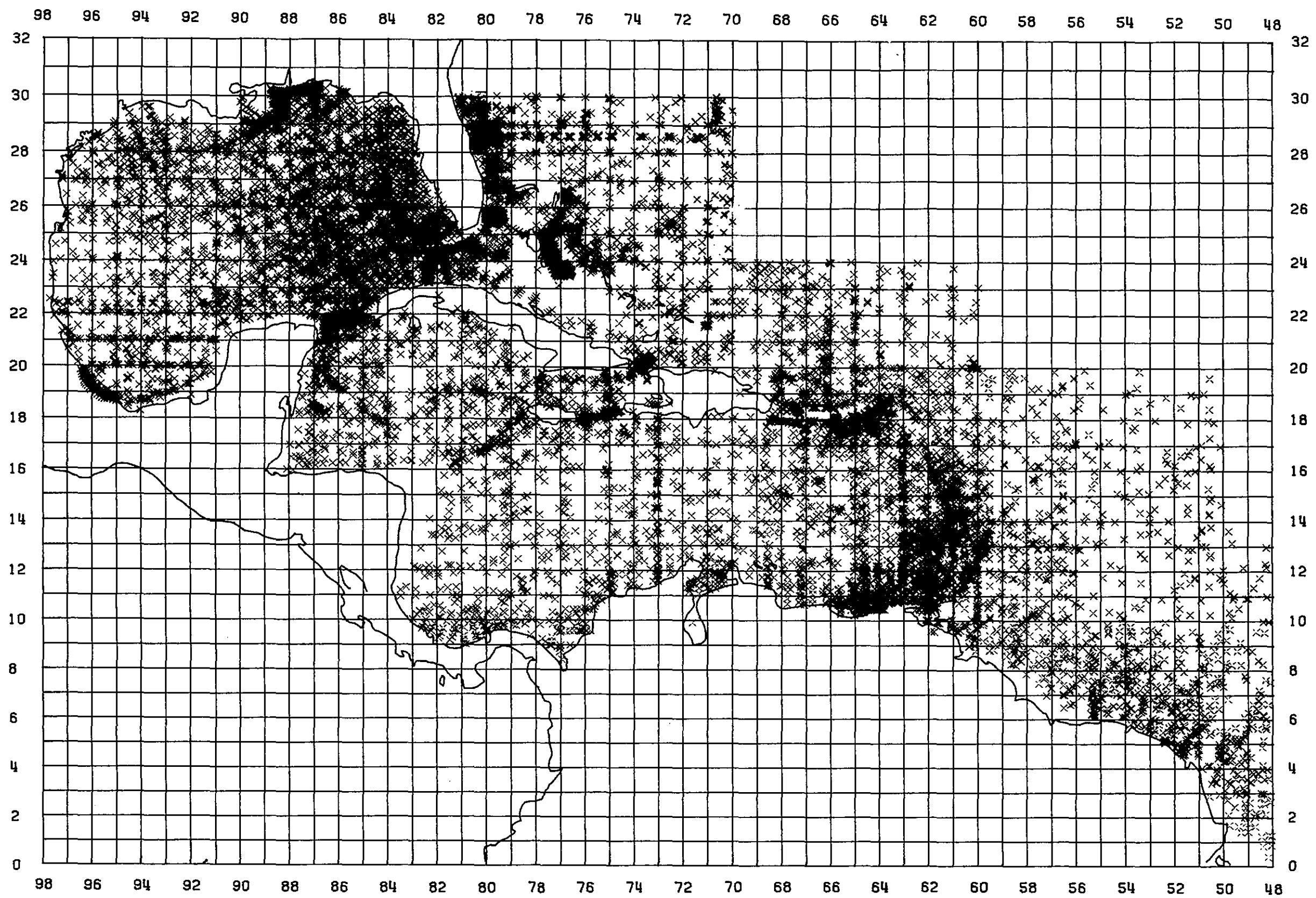


DISTRIBUTION OF PROCESSED STATION DATA

NUMBER OF OBSERVATIONS 1969 - 1975

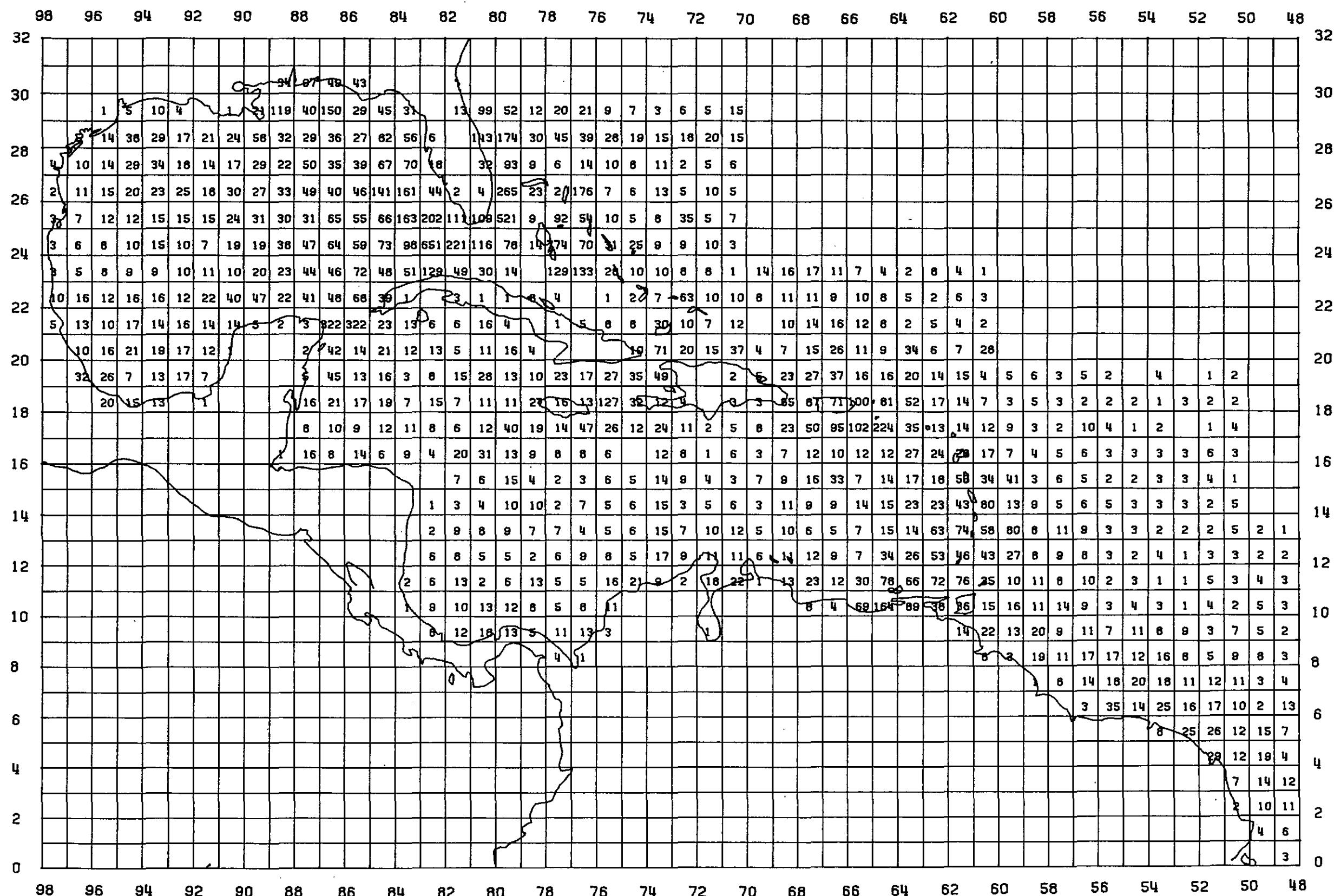


DISTRIBUTION OF GEOGRAPHICALLY SORTED STATION DATA ALL YEARS

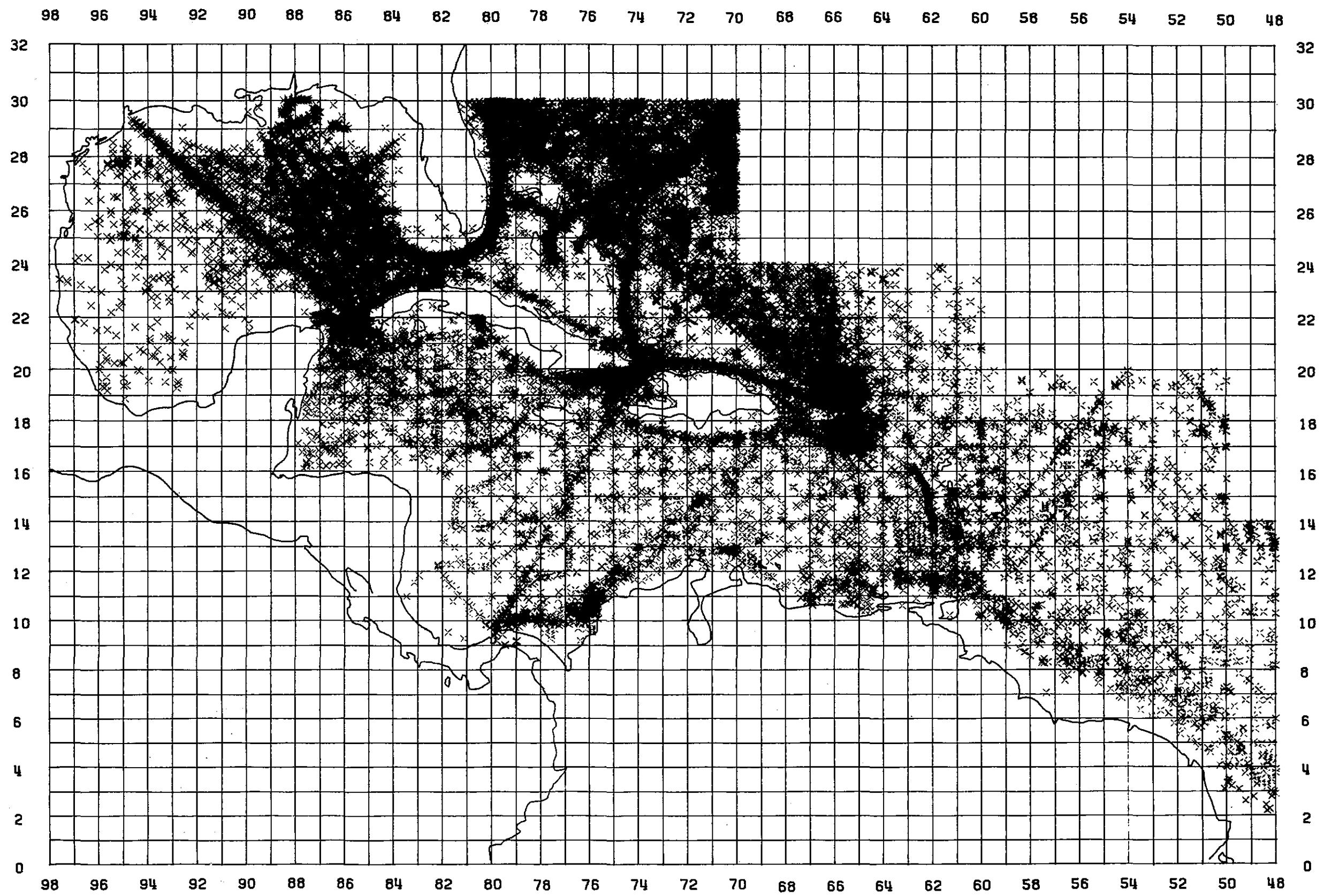


DISTRIBUTION OF GEOGRAPHICALLY SORTED STATION DATA

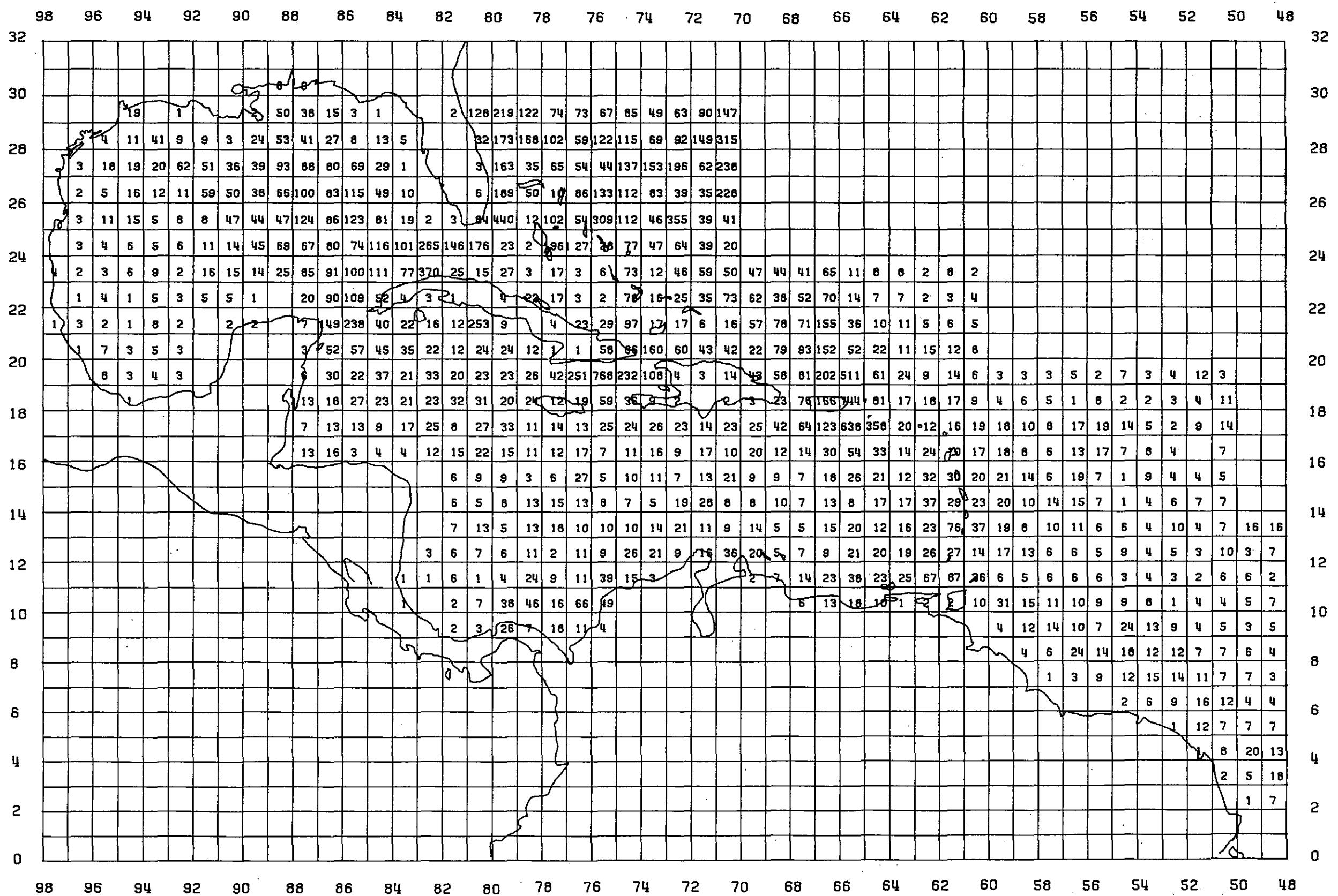
NUMBER OF OBSERVATIONS ALL YEARS



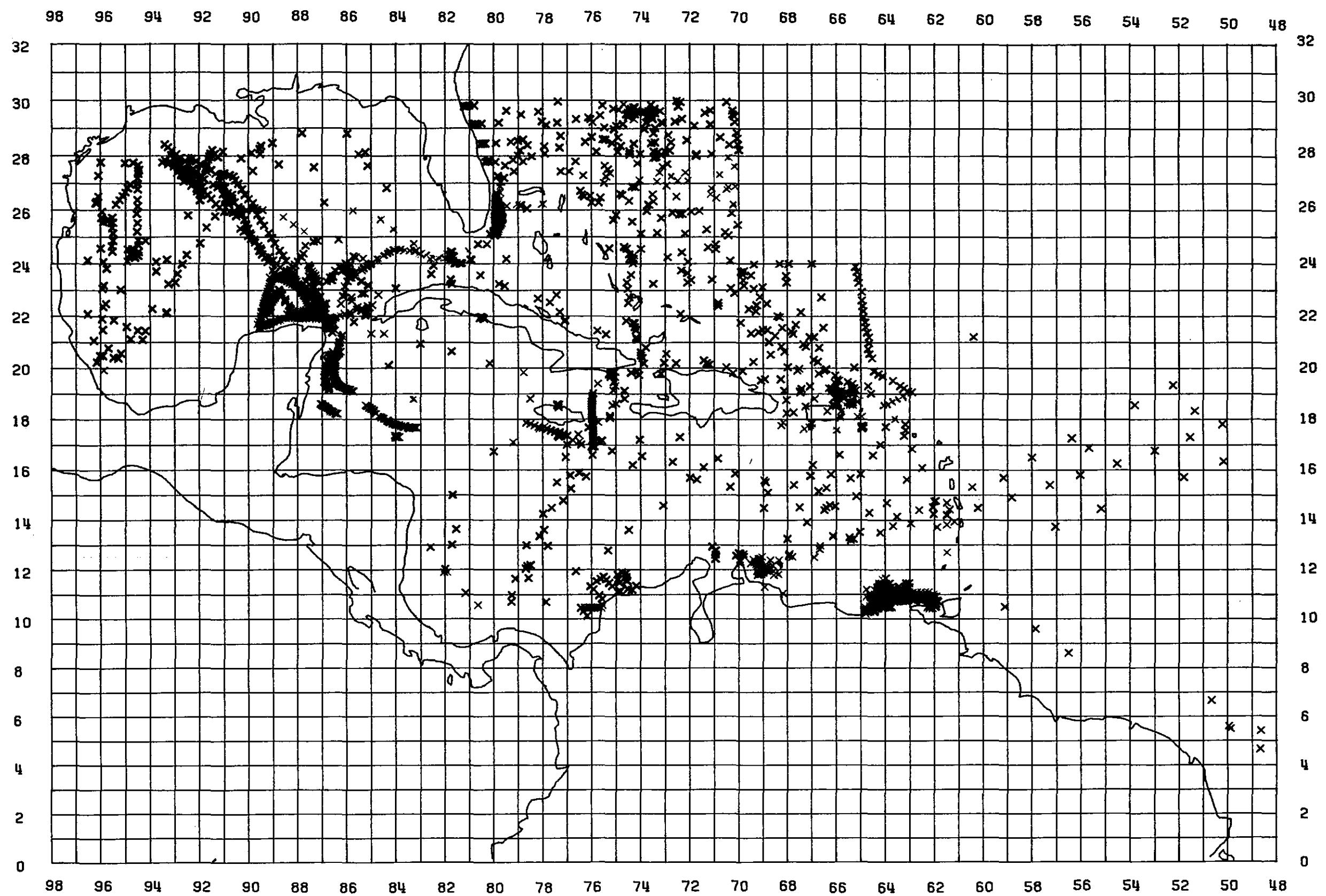
DISTRIBUTION OF DIGITIZED X-BT'S 1966 - 1975



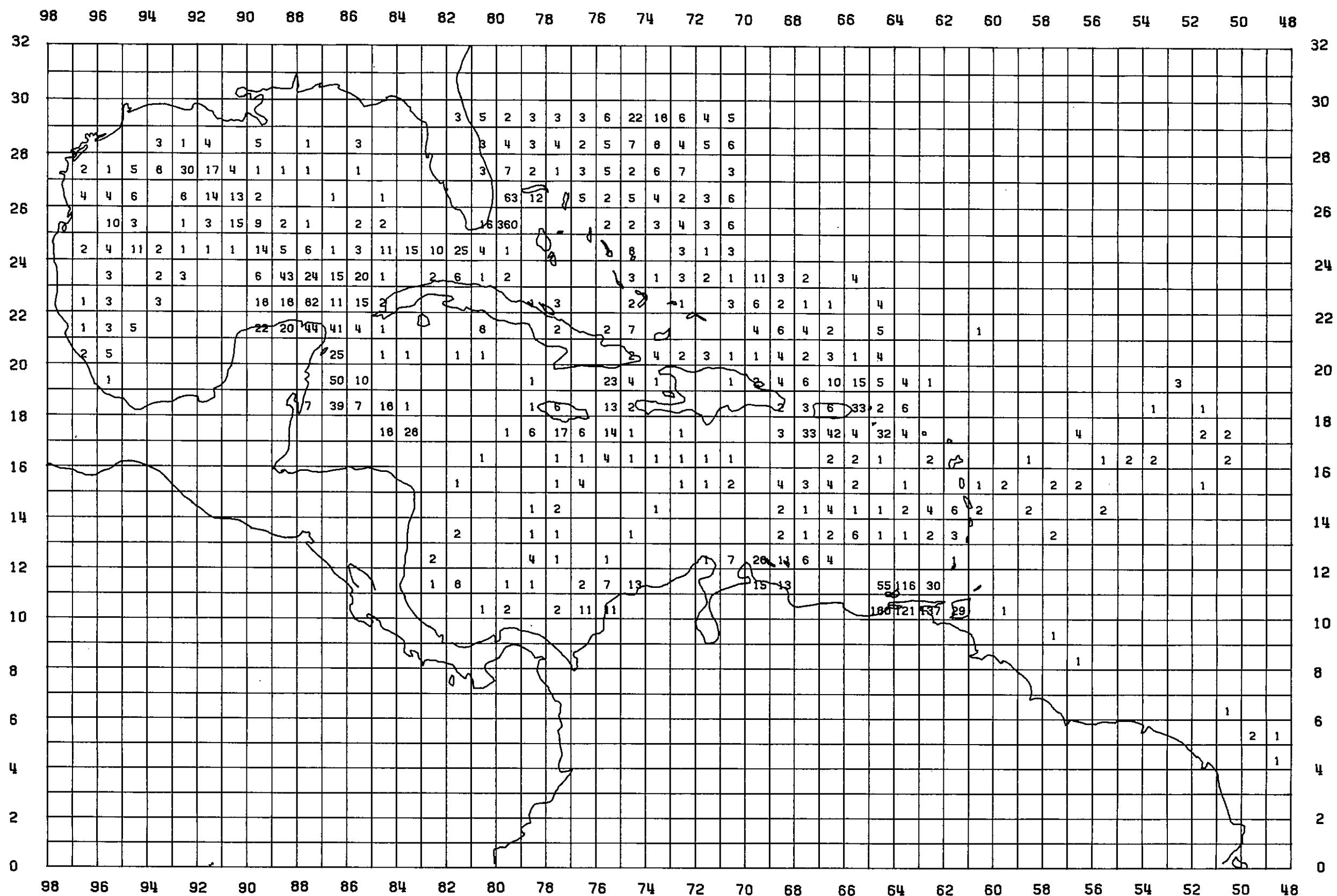
DISTRIBUTION OF DIGITIZED X-BT'S NUMBER OF OBSERVATIONS 1966 - 1975



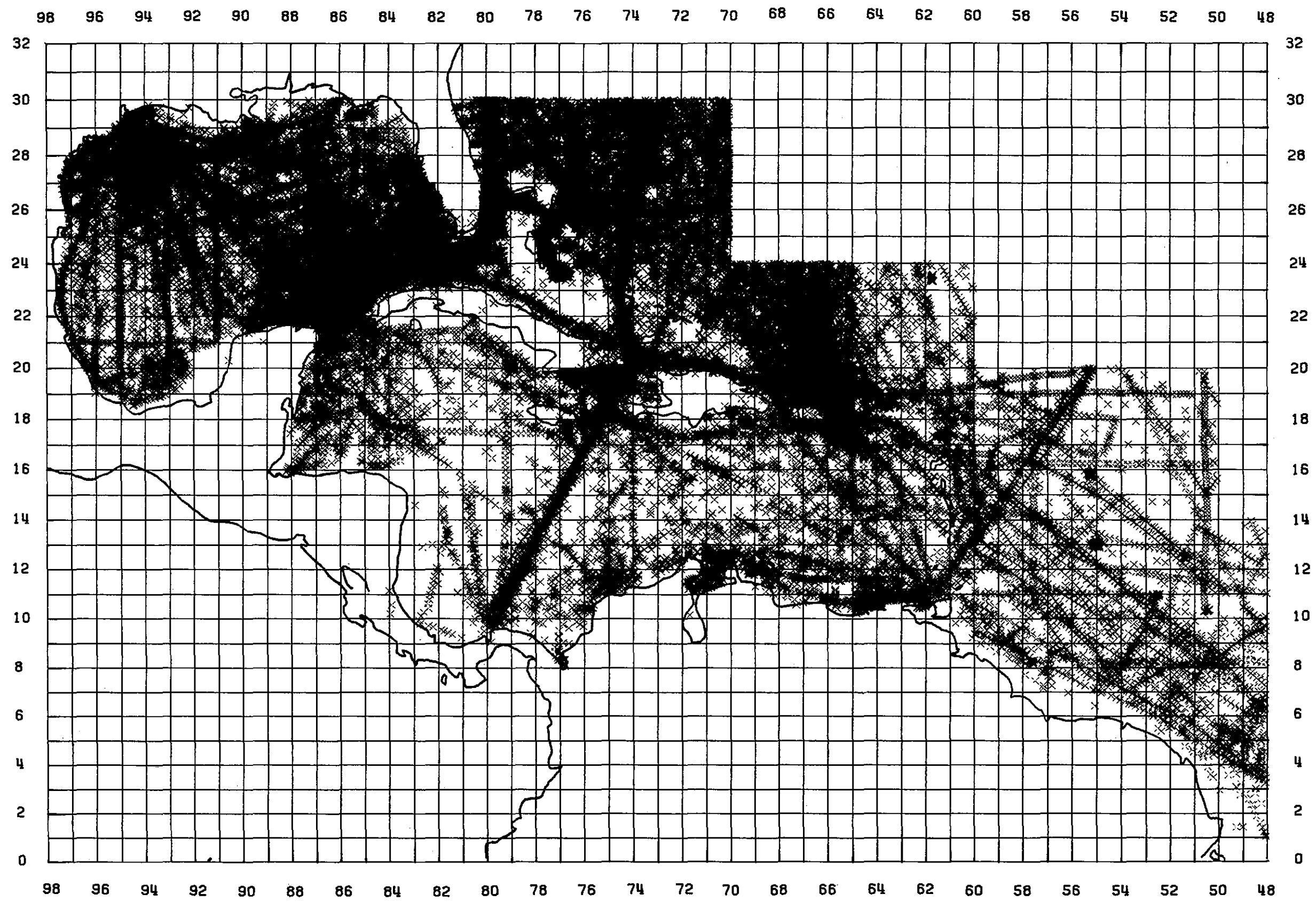
DISTRIBUTION OF DIGITIZED M-BT'S 1969 - 1975



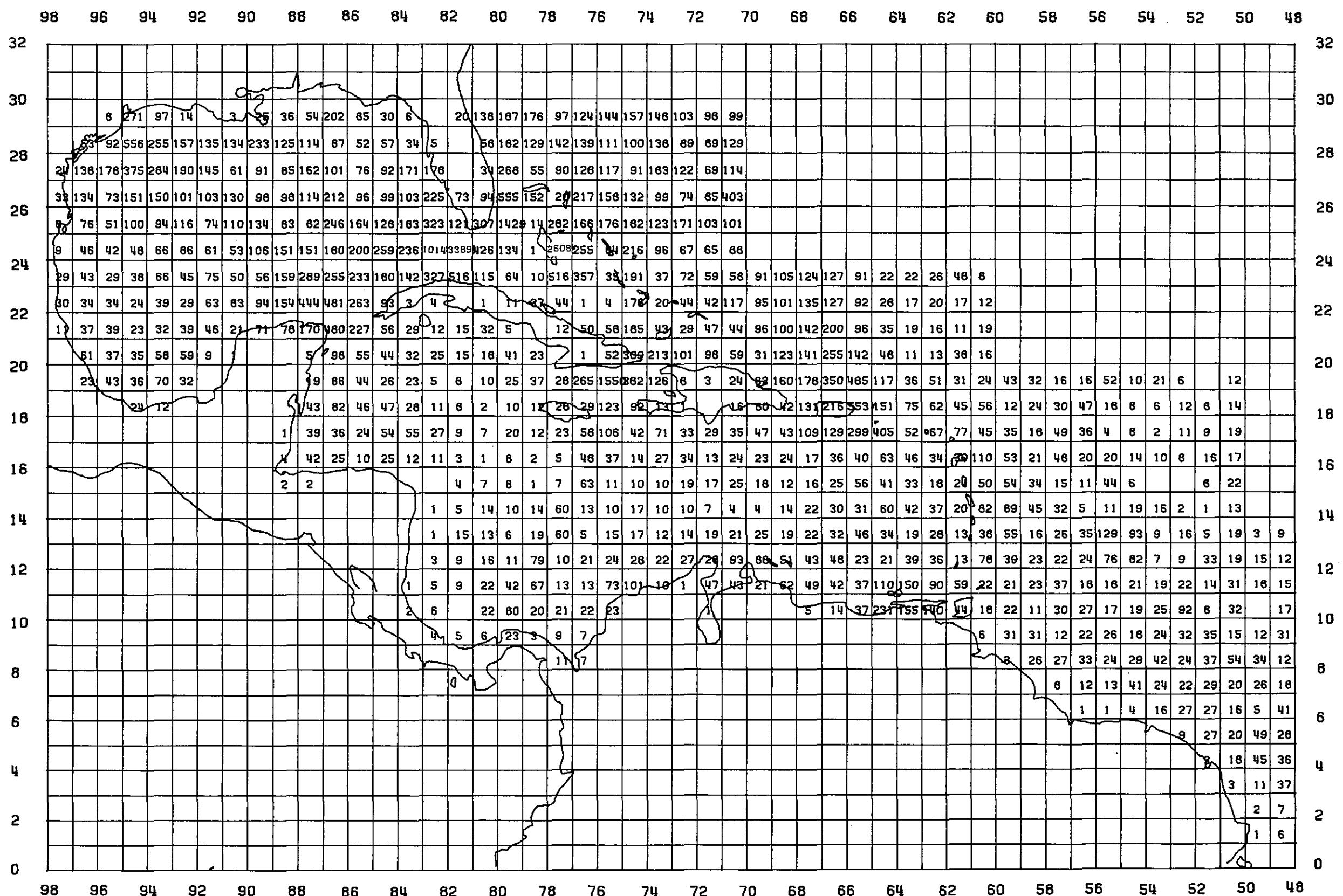
DISTRIBUTION OF DIGITIZED M-BT'S NUMBER OF OBSERVATIONS 1969 - 1975



DISTRIBUTION OF DIGITIZED M-BT'S 1942 - 1975



DISTRIBUTION OF DIGITIZED M-BT'S NUMBER OF OBSERVATIONS 1942 - 1975



Cruise Inventory

The standard "CICAR Data Inventory" (CICARDI) form, which was an important tool in monitoring the early phases of progress of CICAR, was gradually phased out and replaced by the new IOC-approved general purpose standard inventory form: "Report of Observations/Samples Collected by Oceanographic Programs" (ROSCOP) II. Since the early years of CICAR a special effort has been made to inventory marine geological data. The CICARDI form originally used for that purpose was replaced by the IOC "International Geological/Geophysical Cruise Inventory" (IG/GCI) form.

As a result, because of the widespread use of these new inventory forms, fewer of the data were specifically identified as CICAR data.

Format of the CICAR Cruise Inventory

In this inventory, the cruises of countries participating in the CICAR, other than the United States, are listed by ship under a sponsoring agency or an institution. The agency or institution and the name of the ship are in alphabetical order and with few exceptions in chronological cruise order. United States ships are not listed under any particular agency or institution because, in general, more than one institution or agency was involved in sponsoring the cruise.

United States ships are listed alphabetically and by cruise order and date. This inventory of CICAR cruises is based both upon the cruise information from the CICARDI forms, ROSCOP and/or NAMDI forms and data received by the RDC CICAR. The CICAR Operations Coordinator in Curacao (CCC) also provided some cruise information.

A number of United States vessels traversing the CICAR area reported only XBTs and/or MBTs and are not included in the Cruise Inventory report. Names of these vessels are listed below:

ACUSHNET	GULF SHIPPER
AFRICAN STAR	MAYAGUES
BAY STATE	MORMAC ARGO
BELLOWS	MORMAC BAY
BOUTWELL	MORMAC LYNX
CAMPBELL	MORMAC VEGA
CHASE	MT. MITCHELL
COLUMBUS ISELIN	NORTHWIND
DALLAS	OCEANOGRAPHER
DELSUD	PRUDENTIAL OCEAN JET
DELTA NORTE	QUEEN MARY
DELTA ORO	RAINIER
DELTA SUD	SANTA CRUZ
DUANE	

In addition, another 100 United States Navy ships reported only XBT observations in the CICAR area. These ships are not listed in this Cruise Inventory report but the XBTs and/or MBTs data they collected are included in the CICAR data bank at the RDC CICAR. They also are part of the data input to the computer plot displays: "Distribution of Digitized XBTs" and "Distribution of Digitized MBTs."

In the columns for the type of observations, there are two sets of numbers--an "upper" and a "lower" number separated by a fraction line. In some cases no inventory number is shown for the cruise and a "CCC" appears in the remarks column. These cruises were scheduled for the CICAR area and were identified by the CICAR Operations Coordinator in Curacao (CCC) who informed RDC CICAR or WDC-A of the scheduled operations.

A zero appearing as the "upper" number in the inventory indicates that no inventory report form, such as CICAR, ROSCOP, or NAMDI forms, was received at RDC CICAR or WDC-A, or that no confirmation was received at RDC CICAR or WDC-A from the Operations Coordinator. A number other than zero indicates the number of stations or observations reported in an inventory report form, such as CICARDI, ROSCOP, or NAMDI, or confirmation from the CCC received at RDC CICAR or WDC-A. For such parameters as GRAV (gravity), MAG (magnetism), and BATH (bathymetry), the number of nautical miles is provided. When the distance is given in kilometers the abbreviation "km" is used.

The "lower" number in the inventory column indicates the number of observations and/or stations actually received at the RDC CICAR and/or WDC-A, Oceanography. A zero for the lower number means that no data were received. In the case of gravity, magnetism and bathymetry, the numbers represent the number of nautical miles or kilometers (km) that the cruise ship sailed while collecting these data.

The data themselves are available through the RDC CICAR and/or WDC-A.

Examples of inventory numbers:

8 or 8/10 Eight stations or observations were reported on a CICARDI or another inventory report form; but data for 10 stations were received at the RDC CICAR and/or WDC-A.

0 or 0/15 The zero indicates that no inventory report forms were forwarded to the RDC CICAR or WDC-A, or that the RDC CICAR or WDC-A did not identify the cruise as part of the CICAR program; however, data from 15 stations declared to be CICAR were received from a national activity at the RDC CICAR and/or WDC-A.

22 or 22/20 The upper figure indicates that 22 stations or observations were recorded on an inventory report form or were reported by the CCC to the RDC CICAR or to WDC-A. The lower figure indicates that data from only 20 stations were received at the RDC CICAR or WDC-A.

Explanation of the Abbreviations

ACC	- Suffix to denote NODC Accession Identifying (I.D.) Number for data not yet in processing
AS	- Animal sounds
BP	- Bottom photographs
CCC	- Identified as CICAR operations by CICAR Operations Coordinator, Curacao
CPOM	- Samples received by Mexican Oceanic Sorting Center
CR	- Cruise report narrative received
GEK	- Geomagnetic Electrokinetograph (GEK) observations
HRS	- High resolution STD data
MBT	- Digitized MBT data (may be analog with suffix ACC)
NB	- Narrow beam
NGSDC	- U.S. National Geophysical and Solar-Terrestrial Data Center, Environmental Data Service, Boulder, Colorado, U.S.A.
PPC	- Phytoplankton pigment concentration
SD	- Station Data (Nansen) and STD/CTD data
TC	- Track chart received from originator
TR	- Variable formatted data
WB	- Wide beam
X	- Number of observations not specified
XBT	- Digitized XBT data

Explanation of Column Headings

The following abbreviated headings were used at the top of each inventory column. A brief description of each is given below:

INST	- Name of institution or agency
SHIP	- Name of ship
ORIG	- Originator's cruise number
DATE	- Beginning and ending dates of cruise (month, day, year)
NANS	- Nansen cast stations
STD	- Salinity-temperature-depth or conductivity temperature depth cast
XBT	- Expendable bathythermograph
MBT	- Mechanical bathythermograph
CUR	- Current measurements
ZOO	- Zooplankton
PHY	- Phytoplankton
GEO	- Geological samples (core, dredge, grab)
OTH GEO	- Other geological data
GRAV	- Gravity measurements (number of nautical miles, or kilometers)
MAG	- Magnetic measurements (number of nautical miles, or kilometers)
BATH	- Bathymetric measurements (number of nautical miles, or kilometers)

REFERENCES

1. UNESCO, Intergovernmental Oceanographic Commission, 1973. "Manual on International Oceanographic Data Exchange." 3rd Edition (Revised). Technical Series 9, 64 pp. Paris, France.
2. World Data Center-A, Oceanography. "Catalogue of Data" With Change Notices. Washington, D. C., U.S.A.
3. National Oceanographic Data Center, February 1974. "User's Guide to NODC's Data Services." NOAA, EDS/NODC. Key to Oceanographic Records Documentation No. 1, 72 pp. Washington, D. C., U.S.A.
4. Haliminski, S. J., November 1975. "Temperature, Salinity, Oxygen, and Phosphate in Waters off Eastern Central America and Northern South America." NOAA, EDS/NODC, Key to Oceanographic Records Documentation No. 5, 189 pp. Washington, D. C., U.S.A.
5. Winterfeld, T., July 1976. "Distribution of Physical and Chemical Oceanographic Data in the CICAR Region" Unpublished Paper presented at CICAR II, Caracas, Venezuela.

COUNTRY: BRAZIL															
INST/SHIP/ORIG	DATE	NAN	STD	XBT	MBT	CUR	ZOO	PHY	GEO	OTH GEO	GRAV	MAG	BATH	U.S. NODC REF. NO.	REMARKS
<u>DHN</u>													Diretoria de Hidrografia e Navegacao		
<u>ALMIRANTE SALDANHA</u>															
H10-4570	9/08/70	47				77	4			29	319			SD140029	Zoobenthos 61/0, Phytobenthos 61/0 Bioluminescence 64/0, Bottom clay 43/0
	10/29/70	47				0	0			0	0				
H10-4671	4/20/71	83	41			157	13			14	116			SD140032	Phytobenthos 14/0, Zoobenthos 14/0
	6/24/71	74	0			50	0			0	116			MBT761086(ACC)	Pollution 66/0
														GEO761086(ACC)	
H10-5272	10/06/72	22	2			36								SD140030	
	10/26/72	22	0			35								MBT761086(ACC)	

COUNTRY: CANADA															
INST/SHIP/ORIG	DATE	NAN	STD	XBT	MBT	CUR	ZOO	PHY	GEO	OTH GEO	GRAV	MAG	BATH	U.S. NODC REF. NO.	REMARKS
<u>FRBC</u>													Fisheries Research Board of Canada, Biological Station, N.B.		
<u>SACKVILLE</u>															
69-001	1/06/69	46				60		150						SD180249	Micronekton 150/0, Fisheries Research 6/0
	2/15/69	82				0		0							
70-003	2/10/70	42				68		201		6					Micronekton 201/0, Fisheries Research 5/0, Surface and Near- surface Observations 64/0
	3/17/70	0				0		0		0					
<u>DAWSON</u>															
72-004	2/21/72	51				67		322						SD180780	Micronekton 322/0, Fisheries Research 8/0, Pollution 52/0
	3/25/72	54				0		0							

COUNTRY: COLOMBIA

INST/SHIP/ORIG	DATE	NAN	STD	XBT	MBT	CUR	ZOO	PHY	GEO	OTH GEO	GRAV	MAG	BATH	U.S. NODC REF. NO.	REMARKS
<u>MDNAN</u>															Ministerio de Defensa Nacional, Armada Nacional
<u>SAN ANDRES</u>															
Ocean I	9/22/69	45												SD220008 MBT23101	CCC
	10/24/69	<u>45</u>													
4 (CC1)	4/10/72	36												SD220009	Drift Bottles 18/0
	4/22/72	<u>36</u>													
Ocean II	8/16/72														CCC, TC
	8/18/72														
CC2	10/14/72	36												SD220010	TC, Primary Productivity 23/0
	10/26/72	<u>36</u>													
-	2/73	18													CCC
		<u>0</u>													
CC3	3/03/73	33												SD220011	TC, Primary Productivity 27/0 "Informe Datos Oceanograficos CICAR III 3-14 Mar 20/73" (Ministerio de Defensa, Docu- mento DO-17)
	3/14/73	<u>33</u>													
11	9/73														CCC
12	4/15/74														CCC
13	6/15/74														CCC
-	7/74														CCC

COUNTRY: CUBA

<u>INST/SHIP/ORIG</u>	<u>DATE</u>	<u>NAN</u>	<u>STD</u>	<u>XBT</u>	<u>MBT</u>	<u>CUR</u>	<u>ZOO</u>	<u>PHY</u>	<u>GEO</u>	<u>OTH</u>	<u>GEO</u>	<u>GRAV</u>	<u>MAG</u>	<u>BATH</u>	<u>U.S. NODC</u>	<u>REF. NO.</u>	<u>REMARKS</u>
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ACCIOAcademia de Ciencias de Cuba
Instituto de Oceanologia

Ship Unknown

1	2/74	<u>3</u>													SDCU0031
	2/74	<u>3</u>													
2	3/74	<u>5</u>													SDCU0033
	3/74	<u>5</u>													
3	4/74	<u>4</u>													SDCU0032
	4/74	<u>4</u>													
4	5/74	<u>4</u>													SDCU0036
	5/74	<u>4</u>													
5	8/74	<u>5</u>													SDCU0035
	8/74	<u>5</u>													
6	11/74	<u>4</u>													SDCU0034
		<u>4</u>													

CITICentro Cubano de Investi-
gaciones Technologicas (Havana)ALIOT

32-32	1/22/71	<u>5</u>													SDCU0014	TC
	1/23/71	<u>6</u>														
32-33	2/13/71	<u>5</u>													SDCU0015	TC
	2/14/71	<u>5</u>														
33-10	2/15/71	<u>5</u>													SDCU0022	TC
	2/16/71	<u>5</u>														
32-34	3/20/71	<u>5</u>													SDCU0016	
	3/21/71	<u>5</u>														
33-11	4/02/71	<u>0</u>													SDCU0023	
	4/02/71	<u>5</u>														
32-35	4/04/71	<u>0</u>													SDCU0017	
	4/05/71	<u>6</u>														
33-12	5/14/71	<u>0</u>													SDCU0024	
	5/15/71	<u>5</u>														

COUNTRY: CUBA

INST/SHIP/ORIG	DATE	NAN	STD	XBT	MBT	CUR	ZOO	PHY	GEO	OTH GEO	GRAV	MAG	BATH	U.S. NODC REF. NO.	REMARKS
<u>CITI</u>															Centro Cubano de Investigaciones Technologicas (Havana)
<u>ALIOT</u>															
32-36	5/16/71	0													SDCU0018
	5/16/71	6													
33-13	6/23/71	0													SDCU0025
	6/24/71	5													
32-37	7/18/71	0													SDCU0019
	7/15/71	5													
<u>FOTON</u>															
33-14	10/05/71	0													SDCU0026
	10/05/71	6													
32-38	10/06/71	0													SDCU0020
	10/07/71	5													
33-15	11/04/71	0													SDCU0027
	11/05/71	6													
32-39	11/06/71	0													SDCU0021
	11/07/71	7													
34-05	11/19/71	0													SDCU0029
	11/19/71	4													
33-16	11/24/71	0													SDCU0028
	11/24/71	6													
-	12/71	5													CCC
		0													
I72	1/06/72	51													CL, Fisheries Observations 45/0 Ichthyoplankton 40/0
	2/05/72	0													
II72	3/21/72	11													TC
	3/27/72	0													
III72	4/18/72	13													TC
	4/24/72	0													
IV72	5/13/72	61													TC, Ichthyoplankton 44/0 Zoobenthos 38/0, Fisheries Observations 45/0
	6/04/72	0													

COUNTRY: CUBA

<u>INST/SHIP/ORIG</u>	<u>DATE</u>	<u>NAN</u>	<u>STD</u>	<u>XBT</u>	<u>MBT</u>	<u>CUR</u>	<u>ZOO</u>	<u>PHY</u>	<u>GEO</u>	<u>OTH</u>	<u>GEO</u>	<u>GRAV</u>	<u>MAG</u>	<u>BATH</u>	<u>U.S. NODC REF. NO.</u>	<u>REMARKS</u>
<u>FRC</u>																Centro de Investigaciones Pesqueras (Havana)
<u>AKADEMIK KNIPOVICH</u>																
005	7/13/69	0													SDCU0010	
	7/14/69	5														
<u>ANTARES</u>																
-	1/15/72	0													SDCU0030	
	3/24/73	75														
<u>SRT - 8030</u>																
006	1/03/70	0													SDCU0012	
	4/15/70	20														
<u>SRT-R-9075</u>																
005	8/02/69	0													SDCU0011	
	10/14/69	15														
<u>SRT-R-9112</u>																
005	2/13/69	0													SDCU0009	
	5/26/69	24														
<u>SRT - 8015</u>																
I73	1/16/73	10													TC	
	1/19/73	0														
II73	3/23/73	5													TC	
	3/24/73	0														
<u>SRT - M8016</u>																
IV72	10/06/72	5													TC	
	10/07/72	0														
V72	10/27/72	5													TC	
	10/28/72	0														
VI72	10/28/72	4													TC	
	10/29/72	0														
II73	2/25/73	5													TC	
	2/26/73	0														

COUNTRY: CUBA

INST/SHIP/ORIG	DATE	NAN	STD	XBT	MBT	CUR	ZOO	PHY	GEO	OTH	GEO	GRAV	MAG	BATH	U.S. NODC REF. NO.	REMARKS
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FRC Centro de Investigaciones
Pesqueras (Havana)

INSTITUTION

-	1/30/70	0	SDCU0013
	12/13/70	41	

LAMBDA

V72	10/05/72	5	TC
	10/06/72	0	

COUNTRY: JAMAICA

INST/SHIP/ORIG	DATE	NAN	STD	XBT	MBT	CUR	ZOO	PHY	GEO	OTH	GEO	GRAV	MAG	BATH	U.S. NODC REF. NO.	REMARKS
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CARANX

4573-10	10/73		CCC
4673-11	11/73		CCC
4773-12	12/73		CCC
4974-01	1/74		CCC
5074-02	2/74		CCC
5174-03	3/74		CCC
6274-07	7/74		CCC
6474-08	8/74		CCC
6574-08	8/74		CCC
6674-08	8/74		CCC
6774-09	9/74		CCC
6874-09	9/74		CCC
6974-09	9/74		CCC
7174-09	9/74		CCC

COUNTRY: MEXICO

<u>INST/SHIP/ORIG</u>	<u>DATE</u>	NAN	STD	XBT	MBT	CUR	ZOO	PHY	GEO	OTH	GEO	GRAV	MAG	BATH	U.S. NODC REF. NO.	<u>REMARKS</u>
<u>UNMIG</u>																Universidad Nacional Autonoma de Mexico, Instituto de Geofisica, Mexico D. F.
<u>VIRGILIO URIBE</u>																
70-02	5/15/70 5/29/70									<u>3400</u> <u>0</u>	<u>3703</u> <u>0</u>				"Perfiles acusticos de la Plataforma y del Talud Continentales del Suroeste del Golfo de Mexico" (Universidad Nacional Autonoma de Mexico, Datos Geofisicos, Serie A, Oceanografia, No. 1, Marzo de 1972)	
70-10	10/07/70 10/17/70	<u>60</u> <u>0</u>		<u>60</u> <u>0</u>		<u>60</u> <u>0</u>									TC, "Informe Preliminar sobre los Cruceros Oceanograficos efectuados en 1970." Reporte No. 1, Direccion General de Faros e Hidrografia, Mexico D.F., 1972.	
70-12	10/31/70 11/13/70	<u>53</u> <u>53</u>		<u>53</u> <u>0</u>		<u>53</u> <u>0</u>		<u>53</u> <u>0</u>						SD570003	TC, CPOM 100	
71-02	1/17/71 1/22/71	<u>14</u> <u>14</u>												SD570013	"Informe de Datos Oceanograficos del Crucero VU/71-02" (Reporte de Ciencias Marinas No. 2, Instituto Nacional de Pesca, Secretaria de Marina, Mexico D.F., 1972).	
-	4/08/71 4/09/71														CCC	
71-08	4/28/71 5/10/71	<u>50</u> <u>50</u>												SD570029	"Informe de Datos Oceanograficos del Crucero VU/71-08" (Reporte de Ciencias Marinas No. 4 (INP), Departamento de Ciencias Marinas, Instituto Nacional de Pesca, Mexico D.F., 1972.	
71-10	5/24/71 6/09/71	<u>57</u> <u>0</u>		<u>10</u> <u>9</u>		<u>57</u> <u>0</u>	X								CCC, TC, CPOM 57	

COUNTRY: MEXICO

INST/SHIP/ORIG	DATE	NAN	STD	XBT	MBT	CUR	ZOO	PHY	GEO	OTH GEO	GRAV	MAG	BATH	U.S. NODC REF. NO.	REMARKS	
<u>UNMIG</u>												Universidad Nacional Autonoma de Mexico, Instituto de Geofisica, Mexico D.F.				
<u>VIRGILIO URIBE</u>																
71-14	7/19/71	44								24				SD570012	"Informe de Datos Oceanograficos del Crucero, VU/71-14" (Reporte de Ciencias Marinas No. 7 INP), Departamento de Ciencias Marinas, Instituto Nacional de Pesca, Mexico D.F., 1972. 44 Ichthyoplankton TC, Bath WB.	
	7/28/71	43								0						
71-16	8/05/71	133								4/3	100	56	81	63	SD570004	CPOM 220 (Sorted 51) TC, Primary Productivity 63/0
	9/03/71	132									0					
71-20	10/03/71	43								GEK					SD570014	"Informe de Datos Oceanograficos del Crucero VU/71-20" (Reporte de Ciencias Marinas No.11 INP), Departamento de Ciencias Marinas, Instituto Nacional de Pesca, Mexico D.F., 1972. CPOM 25, Ichthyoplankton 43/0, TC.
	10/18/71	43														
71-22	10/27/71	57								34		41			"Informe Preliminar sobre los Cruceros Oceanograficos efectuados en 1971," Reporte No. 2, Direccion General de Faros e Hidrografia, Mexico D.F. TC	
	11/10/71	0								0						
72-01	1/08/72	38													TC, Neuston 38/0	
	1/19/72	0														
72-02	1/10/72	38								38					SD570006	TC, Fisheries Research 38/0
	1/20/72	38								0						
72-04 Phase 1	1/24/72	86								52		86	86			TC, Molluscs 86/0
	2/04/72	0								0						
72-04 Phase 2	2/12/72	15								15		9				TC, Primary Productivity 10/0
	2/26/72	0								0		0				
										GEK						

COUNTRY: MEXICO

INST/SHIP/ORIG	DATE	NAN	STD	XBT	MBT	CUR	ZOO	PHY	GEO	OTH GEO	GRAV	MAG	BATH	U.S. NODC REF. NO.	REMARKS	
<u>UNMIG</u>															Universidad Nacional Autonoma de Mexico, Instituto de Geo- fisica, Mexico D. F.	
<u>VIRGILIO</u> <u>URIBE</u>																
72-10	4/25/72 5/19/72	<u>91</u> 0		<u>48</u> 0		<u>25</u> 0	<u>45</u> 0							TC, Primary Productivity 78/0		
72-12	8/07/72 8/15/72	<u>96</u> 0				<u>170</u> 0	<u>245</u> 0							TC, Primary Productivity 10/0		
72-14	12/10/72 12/19/72													Cooperative Cruise with R/V Akademik Vernadsky		
73-10	5/20/73 6/05/73	<u>40</u> 40		<u>34</u> 0	<u>31</u> 0	<u>55</u> 0								SD570030	Cooperative Cruise with R/V Alaminos, TC, 7 Parachute Drogues	
73-12	6/73															
73-14	8/73	<u>0</u> 21												SD570005		
-	8/74													CCC		
<u>MARIANO</u> <u>MATAMOROS</u>																
	7/14/74 9/29/74	<u>177</u> 0	<u>33</u> 0			<u>51</u> 0									Drift Bottles 3300/0 Surface Temperature 1484/0 Surface Salinity 88/0	

COUNTRY: NETHERLANDS

INST/SHIP/ORIG	DATE	NAN	STD	XBT	MBT	CUR	ZOO	PHY	GEO	OTH GEO	GRAV	MAG	BATH	U.S. NODC REF. NO.	REMARKS								
<u>NISR</u>																							
										Netherlands Institute for Sea Research													
<u>COEROENI</u>																							
C-72	9/18/72 10/08/72									<u>46</u> <u>0</u>					TC								
<u>RNMI</u>										Royal Netherlands Meteorological Institute (de Bilt)													
<u>LUYMES</u>																							
10	3/16/70 4/09/70					<u>82</u> <u>45</u>		<u>2</u> <u>0</u>	<u>2</u> <u>0</u>	<u>2</u> <u>0</u>	<u>2</u> <u>0</u>	<u>5000</u> <u>0</u>	<u>4000</u> <u>0</u>	<u>5600</u> <u>0</u>	MBT 23398	TC, Micronekton 2/0, BATH NB Fisheries Observations							
11,12A,12B	4/22/70 5/27/70					<u>47</u> <u>0</u>		<u>20</u> <u>0</u>	<u>20</u> <u>0</u>	<u>50</u> <u>0</u>	<u>50</u> <u>0</u>			<u>24WB</u> <u>0</u> <u>685</u> <u>0</u>		TC, Zoobenthos 50/0, Micronekton 20/0, Fisheries Observations, BATH 685/0 NB							
13	6/10/70 6/30/70					<u>54</u> <u>0</u>		<u>40</u> <u>0</u>	<u>40</u> <u>0</u>	<u>117</u> <u>0</u>	<u>117</u> <u>0</u>			<u>36WB</u> <u>0</u> <u>792</u> <u>0</u>		TC, Zoobenthos 117/0, Micronekton 40/0, Fisheries Observations, BATH 792/0 NB							
14	7/08/70 7/21/70					<u>40</u> <u>0</u>		X	X			<u>70</u> <u>0</u>	X	<u>15WB</u> <u>0</u> <u>388</u> <u>0</u>		TC, Fisheries Observations BATH 388/0 NB							
15	8/19/70 9/09/70					<u>73</u> <u>0</u>	X	<u>50</u> <u>0</u>	<u>50</u> <u>0</u>	<u>163</u> <u>0</u>	X			<u>700</u> <u>0</u>		TC, BATH NB, Micronekton 50/0							
16,17	9/24/70 11/05/70	<u>69</u> <u>61</u>				<u>252</u> <u>0</u>	X	<u>30</u> <u>0</u>	<u>30</u> <u>0</u>	<u>19</u> <u>0</u>	X			<u>1000</u> <u>0</u>	SD 640056	TC, Micronekton 30/0, Primary Pro- ductivity 400/0, Drift Bottles 10/0, BATH NB							
18	11/12/70 12/02/70					<u>45</u> <u>0</u>		<u>8</u> <u>0</u>	<u>8</u> <u>0</u>	<u>10</u> <u>0</u>	X			<u>707</u> <u>0</u> <u>700</u> <u>0</u>		TC, Zoobenthos 8/10, Micronekton 8/0, Fisheries Observations BATH 707/0 WB and 700/0 NB							
19	12/10/70 12/22/70					<u>27</u> <u>0</u>	X	X	X	<u>31</u> <u>0</u>	X			<u>2WB</u> <u>0</u>		TC, Zoobenthos 5/10							
21	1/02/71 1/22/71					<u>58</u> <u>0</u>		<u>60</u> <u>0</u>	<u>60</u> <u>0</u>			<u>4600</u> <u>0</u>	<u>4600</u> <u>0</u>	<u>4600</u> <u>0</u>			TC, Micronekton 60/0 Fisheries Observations, BATH NB						

COUNTRY: NETHERLANDS

INST/SHIP/ORIG	DATE	NAN	STD	XBT	MBT	CUR	ZOO	PHY	GEO	OTH GEO	GRAV	MAG	BATH	U.S. NODC REF. NO.	REMARKS
<u>LUYMES</u>															
22	3/10/71 3/31/71	40 49	10 0		327 0	3 0	200 0	200 0			2000 0		SD 640069	TC, Micronekton 200/0 Primary Productivity 60/0 Drift Bottles 550/0, BATH NB	
23	4/14/71 5/04/71	28 30		76 0	70 0	16 0	160 0	160 0	60 0	X	1500 0		SD 640070	TC, Micronekton 160/0 BATH WB	
24,25	5/07/71 6/23/71				8 0				12 0			X			
26,27	7/21/71 9/08/71			23 0		9 0	9 0			50WB 0			TC, Micronekton 9/0 BATH 900/0 NB		
										900 0					
28	9/08/71 10/13/71			43 0		45 0	45 0			2928 0			TC, Micronekton 45/0		
29	10/20/71 11/10/71			55 0		23 0	23 0	6 0		3393 0			TC, Micronekton 23/0		
29A	11/22/71 12/22/71			69 0		99 0	99 0	6 0		3875 0			TC, Micronekton 99/0		
31	2/22/72 3/01/72			16 0		18 0	18 0						TC, Micronekton 18/0		
32	3/13/72 3/29/72			19 0		27 0	27 0	25 0		1080 0			TC, Micronekton 27/0 BATH WB		
33	4/12/72 4/30/72	11 0		65 0		59 0	59 0	2 0		864 0	3100 0		TC, Micronekton 59/0 BATH NB and WB		
34-35	5/03/72 6/18/72			62 0		42 0	42 0	130 0	120 0		310 0		TC, Micronekton 42/0 BATH NB and WB		
36-37	7/31/72 9/11/72					27 0	27 0	12 0		1593 0			TC, Micronekton 27/0 BATH NB and WB		
38-39A	9/11/72 11/06/72	11 0	129 0		101 0	42 0	42 0			1920 0	4680 0		TC, Micronekton 42/0		
-	4/72			6 0									CCC		
-	10/72			4 0									CCC		

COUNTRY: NETHERLANDS

INST/SHIP/ORIG	DATE	NAN	STD	XBT	MBT	CUR	ZOO	PHY	GEO	OTH GEO	GRAV	MAG	BATH	U.S. NODC REF. NO.	REMARKS
<u>OVERYSSEL</u>															
-	3/24/70										0			MBT 23389	
	5/05/70										18				
-	1/69										0			MBT 23394	
	1/69										46				
<u>NAN GALDEN</u>															
-	2/10/70										0			MBT 23527	
	2/11/70										402				
<u>VAN SPEYK</u>															
-	2/10/70										0			MBT 23526	
	2/24/70										484				
-	2/06/70										0			XBT 42001	
	8/24/70										108				
<u>VAN NESS</u>															
-	2/69										0			MBT 23395	
	7/69										53				
<u>RNNHO</u>															
														Royal Netherlands Navy Hydrographic Office	
<u>AMSTERDAM</u>															
-	1/69										0			MBT 23525	
	9/69										148				
<u>DE ZEVEN PROVINCIEN</u>															
-	2/69										0			MBT 23523	
	5/69										134				

COUNTRY: UNION OF SOVIET SOCIALIST REPUBLICS

INST/SHIP/ORIG	DATE	NAN	STD	XBT	MBT	CUR	ZOO	PHY	GEO	OTH	GEO	GRAV	MAG	BATH	U.S. NODC REF. NO.	REMARKS
<u>ASIA</u>																Academy of Sciences of U.S.S.R. Institute of Acoustics (MOSCOW)
<u>LEBEDEV</u>																
010	2/14/71	0													SD 900321	
	2/26/71	<u>9</u>														
<u>VAVILOV SERGEY</u>																
010	2/16/71	0													SD 900328	
	2/18/71	<u>3</u>														
<u>MOSKOVSKY UNIVERSITET</u>																
-	Late 75														CCC	
	Early 76															
<u>HON</u>																Hydrography Office of the U.S.S.R. Navy
<u>ASKOLD</u>																
-	6/12/70	25													SD 900280	
	6/21/70	<u>25</u>													MBT 23687	
-	7/24/71	22													SD 900354	
	10/03/71	<u>22</u>														
<u>HYDRO SERV</u>																Hydrometeorological Service
<u>MUSSON</u>																
3	12/69	0													SD 900362	
	1/70	<u>1</u>														
<u>KRENKEL, E.</u>																
4	7/73	0													SD 900445	
	7/73	<u>207</u>														
<u>USHAKOV, G.</u>																
5	8/73	0													SD 900432	
	11/73	<u>252</u>														

COUNTRY: UNION OF SOVIET SOCIALIST REPUBLICS

INST/SHIP/ORIG	DATE	NAN	STD	XBT	MBT	CUR	ZOO	PHY	GEO	OTH	GEO	GRAV	MAG	BATH	U.S. NODC REF. NO.	REMARKS
<u>INSTITUTE OF OCEANOLOGY</u>												Institute of Oceanology, (Moscow)				
<u>AKADEMIK KURCHATOV</u>																
12	3/10/72 4/27/72														SD 900358	CCC
14	2/04/73 4/06/73														SD 900357	CPOM 12
<u>MANO</u>												Main Administration for Navigation and Oceanography				
<u>ANDREI VILKITSKII</u>																
-	3/07/71 7/13/71														SD 900355	Current Meter
-	2/05/73 3/31/73														SD 900450	Current GEK
-	2/14/75 2/15/75														SD 900494	
-	4/75 5/75														CCC	
<u>VASILII GOLOVNIN</u>																
-	2/24/72 5/01/72														SD 900356	Current GEK

COUNTRY: UNION OF SOVIET SOCIALIST REPUBLICS

INST/SHIP/ORIG	DATE	NAN	STD	XBT	MBT	CUR	ZOO	PHY	GEO	OTH GEO	GRAV	MAG	BATH	U.S. NODC REF. NO.	REMARKS
<u>MHI</u>															Marine Hydrophysical Institute
<u>AKADEMIK VERNADSKII</u>															
3	10/23/70 2/10/71	42 54			31 31		28 26	35 35	35 34					SD 900281 MBT 23601 BIOL.VE202	TC, Primary Productivity 35/35
6	9/17/72 1/23/73	89 89			90 0		43 43	63 63						SD 900353 PHY 731190 (ACC) GEO 731190 (ACC)	TC
7	4/26/73 8/18/73	31 55												SD900484	TC

COUNTRY: UNITED KINGDOM

INST/SHIP/ORIG	DATE	NAN	STD	XBT	MBT	CUR	ZOO	PHY	GEO	OTH GEO	GRAV	MAG	BATH	U.S. NODC REF. NO.	REMARKS
<u>CWL</u>															Cable & Wireless, Ltd.
<u>RECORDER</u>															
Jac Survey 9/17/70 9/27/70															TC, Bottom Temperature 27/0 BP 9/0, Cores 12/0
<u>HOA</u>															Hydrographic Department, Admiralty
<u>FAWN</u>															
-	4/06/70 4/18/70			20										MBT 761217 ACC	U.K. No. 74390114 - 74390133
-	4/18/70 7/13/70								X 65		X 5330				U.K. No. K6052/1-3 U.K. No. K6053/1,2
-	4/24/70 5/18/70				2 0	5 0		60 0		3290 0					Current in days, BATH WB
-	4/29/70 7/10/70									X 600					U.K. No. K6054/1,2
-	6/70									X 380					U.K. No. K5908/1-4
-	8/70									X 350					U.K. No. K5927/1-3
-	8/13/70 9/13/70									X 3220					U.K. No. K6059/1-4
-	9/24/70 11/05/70									X 590					U.K. No. K6050/1,2
-	9/25/70 11/05/70							X 74		X 6590					U.K. No. K6049/1-4
-	11/09/70 11/10/70					5 5					MBT 761217 ACC				U.K. No. 74390134-74590138
-	4/08/73 4/10/73					9 9					MBT 761217 ACC				U.K. No. 74390020-74390028
-	5/22/73 5/27/73							151 151			GEO 761217 ACC				CL, Samples retained at University College, London, Gower Street, London, U.K.

COUNTRY: UNITED KINGDOM

INST/SHIP/ORIG	DATE	NAN	STD	XBT	MBT	CUR	ZOO	PHY	GEO	OTH GEO	GRAV	MAG	BATH	U.S. NODC REF. NO.	REMARKS
<u>FAWN</u>															
-	5/28/73 6/04/73									X 14					U.K. No. K6591/3
-	5/31/73 6/04/73									X X					U.K. No. K6698
-	7/08/73 8/09/73									X 95					U.K. No. K6817/1,2
-	7/23/73 7/27/73									X 75					U.K. No. K6765
-	8/04/73									X 3650					U.K. No. K6806/1-5 Sonar
-	2/04/74 2/06/74		4							X 2	XBT761217 ACC				U.K. No. 74395167-74395170 (XBT) U.K. No. K6930 (BATH)
-	2/19/74 4/18/74								X 9	X 1213					U.K. No. K6970/1-5 Sonar
-	3/04/74 4/22/74									X 90					U.K. No. K7119/1,2
-	4/02/74 4/23/74									X 700					U.K. No. K6969
-	4/30/74 5/03/74		5								XBT761217 ACC				U.K. No. 74395171-74395175
-	5/19/74 5/21/74		6								XBT761217 ACC				U.K. No. 74395176 - 74395181
-	5/27/74 5/31/74									X 320					U.K. No. K7077/1,2
-	6/03/74 6/07/74		51							1200 0	XBT761217 ACC				U.K. No. 74395001 - 74395051 TC, BATH WB
-	6/10/74 9/16/74									X 1400					U.K. No. K7111/1,2
-	7/18/74 8/02/74		15								XBT761217 ACC				U.K. No. 74395182 - 74395196

COUNTRY: UNITED KINGDOM

INST/SHIP/ORIG	DATE	NAN	STD	XBT	MBT	CUR	ZOO	PHY	GEO	OTH GEO	GRAV	MAG	BATH	U.S. REF, NODC NO.	REMARKS
<u>FAWN</u>															
-	8/18/74										XBT761217 ACC			U.K. No. 74395197-	
	8/30/74													74395204	
-															
-	9/26/74										XBT761217 ACC			U.K. No. 74395205-	
	9/29/74													74395209	
<u>HOA</u>															
														Hydrographic Department, Admiralty	
<u>FOX</u>															
-	4/23/70									X				U.K. No. K5996/1-3	
	6/21/70									156				U.K. No. K5997/1-3	
-															
-	6/12/70										X			U.K. No. K5888	
	6/14/70										5				
-	7/11/70														
-	7/13/70														
-	7/06/70										X			U.K. No. K5896/1-5	
											1330				
-	8/08/70										X			U.K. No. K5909	
											12				
-	8/10/70											X		U.K. No. K6009/1,2	
	9/21/70											350			
-	8/14/70									X				U.K. No. K6081/1-4, Sonar	
	9/13/70									49					
-	8/26/70										X			U.K. No. K6082	
	11/04/70										31				
-	12/09/70											X		U.K. No. K6001	
												1			
-	3/26/73									X				U.K. No. 74390068-	
	3/29/73									12				74390079	
-															
-	3/30/73										X			U.K. No. K6808/1-6	
	8/07/73										25				
-	4/27/73											X		U.K. No. K6690	
												8			
-	4/10/73											X		U.K. No. K6743	
	8/03/73											440			

COUNTRY: UNITED KINGDOM

INST/SHIP/ORIG	DATE	NAN	STD	XBT	MBT	CUR	ZOO	PHY	GEO	OTH	GEO	GRAV	MAG	BATH	U.S. NODC REF. NO.	REMARKS
<u>HOA</u>																Hydrographic Department, Admiralty
<u>FOX</u>																
-	5/10/73									X						U.K. No. K6740/1,2
	5/20/73										32					
-	6/07/73									X						U.K. No. K6745/1,2
	8/03/73										372					
-	7/04/73									X						U.K. No. K6775/1,2
	7/29/73										178					
-	7/31/73									X						U.K. No. K6744
	8/10/73										300					
-	8/17/73					5						MBT761217 ACC				U.K. No. 74390080-
	8/18/73															74390084
-	2/04/74			2								XBT761217 ACC				U.K. No. 74395120-
	2/05/74			2												74395121
-	2/13/74								X							U.K. No. K7120/1-3, Sonar
	4/25/74									9						
-	5/03/74			1								XBT761217 ACC				U.K. No. 74395122
				1												
-	5/20/74			3								XBT761217 ACC				U.K. No. 74395123-
	5/21/74			3												74395125
-	5/27/74								X							U.K. No. K7077/1,2
	5/31/74									9						
-	6/23/74			64								XBT761217 ACC				U.K. No. 74395052-
	7/03/74			64												74395109
															74395126-	
															74395131	
-	7/22/74					13						XBT761217 ACC				U.K. No. 74395132-
	8/01/74					13										74395144
-	8/19/74			44		11						XBT761217 ACC				U.K. No. 74395145-
	9/04/74			45		11						STD761844 ACC				74395151
												CUR761844 ACC				74395225-
																74395228
																U.K. No. ST 1 ~ ST 44

COUNTRY: UNITED KINGDOM

INST/SHIP/ORIG	DATE	NAN	STD	XBT	MBT	CUR	ZOO	PHY	GEO	OTH GEO	GRAV	MAG	BATH	U.S. NODC REF. NO.	REMARKS
<u>HOA</u>															Hydrographic Department, Admiralty
<u>FOX</u>															
-	9/26/74 9/30/74			4 4										XBT761217 ACC	U.K. No. 74395229- 74394232
<u>HECLA</u>															
-	3/23/71 3/28/71	15 15		68 68										SD740184	U.K. No. 74375001- 74375068, U.K. No. ST 132 - ST 146 "Ocean Observations in the Eastern Caribbean Sea, HMS HECLA, March 1971." Admiralty Marine Science Publications.
-	3/29/71 8/05/71									X 4940	X 5360	X 5340			U.K. No. K6268/1-8 U.K. No. K6269/1-8
-	5/14/71 5/28/71										X 60				U.K. No. K6313/1,2
-	8/02/71 8/03/71														
-	5/17/71 5/21/71									X 60					U.K. No. K6318/1,2
-	5/27/71 6/29/71									X 40					U.K. No. K6315/1,2
-	6/21/71 6/26/71									X 460					U.K. No. K6267
-	6/21/71 7/01/71			51 51										CUR761217 ACC	
-	4/07/72 4/23/72			10 10										MBT761217 ACC	U.K. No. 74370009- 74370018 U.K. No. 74375004 U.K. No. ST 150, ST 151

COUNTRY: UNITED KINGDOM

INST/SHIP/ORIG	DATE	NAN	STD	XBT	MBT	CUR	ZOO	PHY	GEO	OTH GEO	GRAV	MAG	BATH	U.S. NODC REF. NO.	REMARKS
<u>HOA</u>													Hydrographic Department, Admiralty		
<u>HECLA</u>															
-	4/15/72									X				U.K. No. K6591/1,2	
	5/19/72										90			U.K. No. K6593/1,2	
-	4/23/72									X	X	X		U.K. No. K6596/1-4	
	6/20/72											2640			
-	4/72										X			U.K. No. K6675/1-14, Seismic Refraction x/520	
											160				
-	5/01/72										X			U.K. No. K6598/1,2	
	6/20/72										390				
-	5/28/72									X		X		U.K. No. K6595/1-6	
	6/01/72									80	41	160			
-	5/30/72										X			U.K. No. 6569/1,2	
	6/10/72										40				
-	6/12/72										X			U.K. No. K6567/1,2	
	6/20/72										40				
-	6/24/72			8								XBT761217 ACC		U.K. No. 74375005- 74375012	
	7/11/72			8											
-	6/30/72					X				X		X		U.K. No. K6479/1-17	
	7/08/72					42				1300	1360	1690			
<u>HYDRA</u>															
-	5/29/71									X				U.K. No. K6126	
										50					
-	5/31/71										X			U.K. No. K6124	
	6/01/71										200				
-	6/03/71										X			U.K. No. K6127	
	6/04/71										180				
-	6/11/71			3							XBT761217 ACC			U.K. No. 74380001- 74380003	
	6/12/71			3											
-	5/25/71									X				U.K. No. K6121	
										100					

COUNTRY: UNITED STATES OF AMERICA

<u>INST/SHIP/ORIG</u>	<u>DATE</u>	<u>NAN</u>	<u>STD</u>	<u>XBT</u>	<u>MBT</u>	<u>CUR</u>	<u>ZOO</u>	<u>PHY</u>	<u>GEO</u>	<u>OTH</u>	<u>GEO</u>	<u>GRAV</u>	<u>MAG</u>	<u>BATH</u>	<u>U.S. NODC REF. NO.</u>	<u>REMARKS</u>
<u>ALAMINOS</u>																
69-A-7	5/69	18	122	192	336										SD312368 SD318405 XBT41388 MBT09562	
69-A-8	6/69	19		92	77										XBT41389 MBT09574 SD312266	
69-A-10	7/69	24	18	156	11										XBT44919 SD318364 SD312267 MBT09575	
69-A-12	9/69	9	50	105	96										SD312369 SD318400 XBT41463 MBT09564	
69-A-16	12/69			6											XBT41464	
70-A-2	1/70			0											XBT41465	
70-A-3	2/05/70	22	40	94	107					2					SD312370 XBT41466	
70-A-4/5	3/70			25											XBT41467(9) XBT41468(16)	
70-A-6	4/03/70	98		170											SD312268 XBT44920	
70-A-7	4/26/70	100	67	84	58					15	5				SD311654(67) SD312371(16) SD318220(67) XBT44281 MBT760936 ACC	
70-A-8	5/70			25											XBT44921	
70-A-9	6/11/70	12	61	97	44										SD312372 SD318249 XBT44282 MBT760936 ACC	
										2500	0				TC, EGME II, BATH WB	

COUNTRY: UNITED STATES OF AMERICA

INST/SHIP/ORIG	DATE	NAN	STD	XBT	MBT	CUR	ZOO	PHY	GEO	OTH GEO	GRAV	MAG	BATH	U.S. NODC REF. NO.	REMARKS
<u>ALAMINOS</u>															
70-A-10	7/70													XBT44922	
70-A-11	8/70													XBT44923	
	9/70														
70-A-14	10/22/70	21	60	75	63									SD312373 SD318399 XBT44283 MBT760936 ACC	TC, CR
	11/02/70	21	60	89	67										
71-A-4	2/16/71	4	0	26										TC, BP 2/0	
	5/16/71	0		0											
71-A-5	5/71													IDOE Fisheries Research, 69/0	
	6/71														
-	11/14/71			6										CCC	
	11/24/71			0											
71-A-14	1971													IDOE	
72-A-7	3/24/72	46	107	284	11					4400				SD312374 SD318421 XBT44186	
	4/21/72	45	106	284	0					0					
72-A-8	4/22/72	16	31	97										XBT44924 SD312683 SD318455	TC
	5/01/72	15	29	97											
72-A-9	5/02/72	57	56	321										SD318437 XBT760936 ACC	NAN/STD listed with SD318437. 321 XBT OBS in publication Texas A & M University Ref 73-10-T May 1973 with TC
	5/22/72	57	56	321											
72-A-15	9/08/72	6	8							29				TC, BP 9/0	
	10/10/72	0	0							0					
72-A-16	10/12/72	8	6							22				TC	
	11/01/72	0	0							0					
73-A-3	2/73	23	14	26						8	32			1740	Micronekton 10/0, BATH WB
		0	0	0						0	0			0	

COUNTRY: UNITED STATES OF AMERICA

INST/SHIP/ORIG	DATE	NAN	STD	XBT	MBT	CUR	ZOO	PHY	GEO	OTH GEO	GRAV	MAG	BATH	U.S. NODC REF. NO.	REMARKS
<u>ALAMINOS</u>															
73-A-8	5/18/73 6/03/73	<u>16</u> <u>16</u>	<u>39</u> <u>39</u>	<u>291</u> <u>291</u>			<u>5</u> <u>0</u>							SD312375 SD318404 XBT44893	
73-A-13	8/73 8/73						<u>0</u> <u>47</u>							XBT45294	
73-A-15	10/73 10/73						<u>0</u> <u>33</u>							XBT44803	
73-A-16	10/27/73 12/11/73	<u>51</u> <u>0</u>		<u>309</u> <u>0</u>			<u>X</u> <u>0</u>			<u>5450</u> <u>0</u>				TC, Drift Bottles 1008/0 BATH WB	
<u>ALBATROSS IV</u>															
7206	7/20/72 8/16/72	<u>0</u> <u>78</u>	<u>0</u> <u>74</u>	<u>0</u> <u>226</u>										SD312118 SD318315 XBT44308	
7302	1/22/73 2/15/73	<u>0</u> <u>96</u>	<u>0</u> <u>96</u>	<u>0</u> <u>208</u>										SD312160 SD318326 XBT44256	
<u>ANDROSCOGGIN</u>															
A7	10/01/70			<u>0</u> <u>16</u>										SD318187	
<u>ATLANTIS II</u>															
56	2/03/70 4/30/70	<u>158</u> <u>160</u>		<u>345</u> <u>342</u>	<u>101</u> <u>101</u>	<u>214</u> <u>0</u>	<u>50</u> <u>0</u>		<u>95</u> <u>0</u>					SD311601 XBT42849 MBT27064 "Current Measurements in the Lesser Antilles" (WHOI Ref No. 71-51, July 1971). TR, CR, 5 Neuston-Pleuston 1000/184 Drift Bottle Data stored in NODC Archives.	
78	11/73	<u>0</u> <u>28</u>			<u>0</u> <u>27</u>									SD312338 MBT740137 ACC Analog BT Data	
83	6/74 7/74				<u>0</u> <u>112</u>									XBT45508	
84	8/74 8/74	<u>0</u> <u>15</u>												SD312508	

COUNTRY: UNITED STATES OF AMERICA

<u>INST/SHIP/ORIG</u>	<u>DATE</u>	<u>NAN</u>	<u>STD</u>	<u>XBT</u>	<u>MBT</u>	<u>CUR</u>	<u>ZOO</u>	<u>PHY</u>	<u>GEO</u>	<u>OTH</u>	<u>GEO</u>	<u>GRAV</u>	<u>MAG</u>	<u>BATH</u>	<u>U.S. NODC REF. NO.</u>	<u>REMARKS</u>
<u>BELLOWS</u>																
SUS7106	4/17/71 4/18/71															CCC
7101	5/14/71 5/22/71	40 40					40 0	40 0	40 0						SD317033	CR, TC, 8 Roller Frame Trawls, 10, 16-Try Net Trawls, Fish Research 18/0.
7104A	8/71		0 8													SD318394
SUS7122B (7104B)	8/28/71 9/02/71	4 0	6 6	19 0		10 0	6 0				X 0				SD318395	CR, TC CUR, (Vessel Drift) Fisheries Research
SUS7127	9/14/71 9/16/71	29 29			29 29				34 0		X 0	SD311850 MBT24001			CR, TC, Drift Bottles 264/0	
7132A&B (7107)	11/06/71 11/16/71	45 45		5 0	40 40		42 0	31 0				SD312100 MBT24002			CR, TC, Bongo Net 31/0 Neuston 20/0 Fisheries Research	
7201	2/02/72 2/02/72	19 19		3 3	17 17							SD311907 XBT41998 MBT24003			CR, TC, Bongo Net 17/0 ICITA Net 15/0, Neuston 12/0 EGMEX I	
7204	5/05/72 5/19/72		33 33	28 26								SD318379 XBT44057			NOAA Publications, ERL AOML-22 TC, EGMEX VI, PPC 57/0	
7205	6/26/72 6/29/72			0 36								XBT44808			CCC	
7306, 7314, 7372	5/03/73 5/06/73		0 4	0 19								SD318382 XBT44303			CCC	
7312	6/03/73 6/08/73		22 22	39 39			4 0					SD318329 XBT44305			EGMEX VII 10 Trawls	
7313	7/73		31 31	34 34								XBT44555 SD317113			EGMEX VIII, 6 Trawls	
7315	8/10/73 8/15/73		42 42	20 20								SD318332 XBT44670			EGMEX IX EGMEX VIII	

COUNTRY: UNITED STATES OF AMERICA

INST/SHIP/ORIG	DATE	NAN	STD	XBT	MBT	CUR	ZOO	PHY	GEO	OTH	GEO	GRAV	MAG	BATH	U.S. NODC REF. NO.	REMARKS
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BELLOWS

7320, 7326, 7328	10/73	$\frac{0}{4}$	$\frac{0}{22}$												SD318396 XBT44789 XBT44790 XBT44801 XBT44802
7321	11/73	$\frac{0}{9}$	$\frac{0}{7}$												XBT44792 SD318397

BOWERS, G. M.

-	9/73 9/73		$\frac{0}{15}$												XBT44791
-	4/22/75 8/01/75														CCC
-	8/12/75 8/26/75														CCC
-	9/10/75 9/24/75														CCC
-	10/07/75 10/21/75														CCC
-	11/04/75 11/18/75														CCC
-	12/02/75 12/16/75														CCC

CALANUS

C7010	11/09/70 11/13/70	$\frac{1}{1}$													SD311830
C7014A	11/23/70 11/27/70														CCC
C7018	12/06/70 12/08/70														CCC
C7019	12/10/70 12/11/70		$\frac{10}{18}$												MBT760937 ACC

COUNTRY: UNITED STATES OF AMERICA

INST/SHIP/ORIG	DATE	NAN	STD	XBT	MBT	CUR	ZOO	PHY	GEO	OTH GEO	GRAV	MAG	BATH	U.S. NODC REF. NO.	REMARKS
<u>CALANUS</u>															
C7405	2/28/74 3/09/74									0 <u>36</u>				MBT23994	
C7412, C7412A	4/27/74 5/09/74									0 <u>45</u>				MBT23989	
C7521	5/18/75 5/25/75									2 <u>0</u>		80NB <u>0</u>		Seismic Reflection 80/0, BP 1/0	
C7532A	7/21/75 7/27/75													CCC	
C7534	8/05/75 8/18/75													CCC	
C7537	8/29/75 9/02/75													CCC	
C7541	10/02/75 10/13/75													CCC	
C7543	10/23/75 10/27/75													CCC	
C7547	11/19/75 12/17/75													CCC	
<u>CHAIN</u>															
112	6/73 6/73									0 <u>99</u>				XBT45198	
116	7/74 8/74									0 <u>266</u>				XBT45553	
<u>CHASE</u>															
A7	11/22/71 11/22/71									0 <u>16</u>				SD311936	
<u>COLUMBUS ISELIN</u>															
7303	1/19/73 1/27/73									0 <u>51</u>				SD322429 MBT23991	
7304	2/01/73 2/13/73									0 <u>5</u>	0 <u>74</u>			SD322403 SD3200008	HRS STD requires special processing

COUNTRY: UNITED STATES OF AMERICA

INST/SHIP/ORIG	DATE	NAN	STD	XBT	MBT	CUR	ZOO	PHY	GEO	GEO	GRAV	MAG	BATH	OTH	U.S. NODC REF. NO.	REMARKS
<u>COLUMBUS ISELIN</u>																
7311	6/28/73 6/29/73		0 8		0 61									SD328398 MBT23993		
7318	10/14/73 10/18/73		65 56	28 13	0 51									SD3200016 MBT23988 XBT740742 ACC	HRS STD requires special processing.	
7319	10/23/73		162 180											SD3200017	HRS STD requires special processing.	
7321	11/27/73 12/05/73		66 67	10 11										SD3200018 XBT740742 ACC	HRS STD requires special processing.	
7506	5/13/75 5/25/75													CCC		
7507	5/26/75 6/10/75													CCC		
7508	6/14/75 6/23/75		3 0					90 0								
7509	6/26/75 7/15/75				4 0									Neuston 9/0, Nekton 77/0, Invertebrate Nekton 36/0, Pelagic Fishes 36/0, Deep Scattering Layers 41/0		
7510	7/25/75 8/01/75													CCC		
7511	8/18/75 9/07/75													Demersal Fishes 47/0, Zoobenthos 47/0, Pelagic Fishes 3/0		
7512	9/12/75 9/29/75													CCC		
7513	10/06/75 10/16/75															
<u>CONRAD, R.</u>																
-	6/13/75 7/08/75													CCC		

COUNTRY: UNITED STATES OF AMERICA

INST/SHIP/ORIG	DATE	NAN	STD	XBT	MBT	CUR	ZOO	PHY	GEO	OTH GEO	GRAV	MAG	BATH	U.S. NODC REF. NO.	REMARKS
<u>CRAWFORD</u>															
71-2 to 71-26	1/07/71 12/04/71		0 <u>32</u>											SD312189	TC, CR, "Hydrographic Observations in the Caribbean Sea 1971," Data Reference Report No. 72-1, University of Puerto Rico.
72-5	4/28/72 5/01/72		5 <u>0</u>												TC, Phosphates 114/0, Silicates 120/0
72-9	6/20/72 6/22/72		8 <u>0</u>												TC, STD SECT j, Oxygen 200/0, Phosphates 200/0, Silicates 200/0
72-12	9/08/72 9/11/72		8 <u>0</u>												TC, Oxygen 25/0, Phosphates 25/0, Silicates 25/0.
72-27	10/24/72 10/28/72		9 <u>0</u>												TC, STD SECT j, Phosphates 213/0, Silicates 213/0.
73-2	1/11/73 1/16/73		12 <u>0</u>												TC, Phosphates 28/0, Silicates 28/0
73-5/6	2/21/73 2/22/73	6 <u>0</u>	145 <u>0</u>		6 <u>0</u>									6NB <u>0</u>	TC, STD SECT AREA b3
73-10	3/29/73 4/01/73		8 <u>0</u>												TC, Phosphates 253/0, Silicates 253/0
73-18	6/21/73		8 <u>0</u>												TC, Phosphates 288/0, Silicates 288/0
73-21	7/24/73 7/26/73		15 <u>0</u>		7 <u>0</u>									7NB <u>0</u>	TC, Phosphates 32/0, Silicates 32/0
73-24	9/18/73 9/24/73		20 <u>0</u>												TC, STD SECT AREA b3, Oxygen 385/0, Silicates 374/0
73-27	10/29/73 11/03/73		8 <u>0</u>												TC, STD SECT j, Phosphates 271/0, TC, Silicates 271/0
73-24	11/06/73 11/07/73		3 <u>0</u>												TC, STD SECT j, Oxygen 305/0, Phosphates 305/0, Silicates 305/0
74-20	10/25/74 10/29/74		8 <u>0</u>												TC, STD SECT j, Oxygen 310/0, Phosphates 310/0, Silicates 310/0
			10/74												CCC

COUNTRY: UNITED STATES OF AMERICA

INST/SHIP/ORIG	DATE	NAN	STD	XBT	MBT	CUR	ZOO	PHY	GEO	OTH GEO	GRAV	MAG	BATH	U.S. NODC REF. NO.	REMARKS	
<u>CRAWFORD</u>																
75-3	2/13/75		8													
	2/18/75		0													
-		2/75												CCC		
75-9	6/18/75		8												TC, STD SECT j, Oxygen 283/0, Phosphates 283/0, Silicates 283/0	
	6/22/75		0													
75-11	9/09/75		9												TC, Oxygen 250/0, Phosphates 221/0, Silicates 221/0, Nitrates 20/0, Nitrites 20/0	
	9/12/75		0													
-		10/75												CCC		
		10/75														
75-17	11/08/75	33				0									TC, Oxygen 957/0, Phosphates Silicates 957/0	
	11/19/75		0													
<u>DAN BRAMAN</u>																
7113	5/07/71		0												SD312003	
	5/17/71		86													
7108	7/25/71														TC, Open-closing Trawl 50/0	
	8/01/71															
7120	8/09/71	100		7			93	X	46						SD312004	TC, CR, EGMEX IV, 46 ICITA nets, Drift Bottles 1200/0
	8/24/71	100		0			0		0							
7124	8/25/71						20		10		20				TC, CR, Bongo Net 20/0	
	8/29/71						0		0		0					
8C7109		8/71						77							MBT24008	
		8/71						77								
7125(8C7113)	9/14/71	30					31								SD311852	CR, Pesticides 30/0, BP 30/0, Grabs 30/0, Drift Bottles 203/0
	9/16/71	30					30								MBT24007	

COUNTRY: UNITED STATES OF AMERICA

INST/SHIP/ORIG	DATE	NAN	STD	XBT	MBT	CUR	ZOO	PHY	GEO	OTH	U.S. NODC REF. NO.	REMARKS	
<u>DELAWARE II</u>													
7219	7/13/75 8/13/75	0 156	0 8	0 150	0 74						SD312019 SD318299 XBT42753 MBT730061 ACC		
<u>DISCOVERER</u>													
RP-2-70	5/02/70 5/08/70	5 0	39 39	3 0		4 0				XBT40547	TC, EGMEX I, PPC 105/0, Primary Productivity 12/0		
RP-4-DI-70	9/07/70 9/13/70		2 15				2 0	2 0	900 km 608 nm	900 km 608 nm	900 km 608 nm	XBT42118	CR, TC
RP-7-DI-70	9/29/70 11/06/70	9 0	104 0	408 408		2 0	57 0			XBT42505 XBT42505	(167), CR, TC, EGMEX II (169), Current Measurements		
DISC 70	10/70 10/70									TR0016	Temperature, Salinity, Tritium in Non-Standard Format 0/4		
RP-9-DI-71	7/18/71 8/20/71	97 97	334 334		30 0	16 0			5476 0 km	SD318431 XBT41996	TC, EGMEX IV, Current Measurements, Drift Bottles 656/0		
											"Oceanographic Conditions in the Caribbean Sea during the Summer of 1971." NOAA Tech. Report ERL 344-AOML 20. July 1975		
DISC 71	9/71 9/71		0 75							TR0016	Temperature, Salinity, Tritium in Non-Standard Format 0/3		
RP-11-DI-71	9/09/71 10/22/71	22 22	75 75		2 0					SD318432 XBT42508	TC, Drift Bottles 792/0		
-	9/25/71 10/14/71	30 0	578 127		92 0					XBT44012	TC, CR, IDOE		
EQUAPLG 1-4	4/02/72 6/23/72								15500 15500 km	15500 15500 km	15500 15500 km	NGSDC00102	
RP-12-DI-72	10/09/72 12/15/72	10 0	42 0	346 0		1 0	85 0	27 0	11571 0 km	8374 0 km	12491 0 km		TC, 1066 miles of Reflection Profiling GRAV, MAG, and BATH Data on microfilm, Micronekton 95/0, GRAV and MAG in km, BATH NB

COUNTRY: UNITED STATES OF AMERICA

INST/SHIP/ORIG	DATE	NAN	STD	XBT	MBT	CUR	ZOO	PHY	GEO	OTH GEO	GRAV	MAG	BATH	U.S. NODC REF. NO.	REMARKS	
<u>DOLPHIN</u>																
2	3/20/73	0												SD312182 XBT44361		
	3/23/73	9														
5	10/25/73	0												SD312253 XBT44753		
	11/03/73	38														
2	4/02/74	0												SD312337 XBT44913		
	4/24/74	46														
3	8/14/74	0												SD312360 XBT45292		
	8/23/74	44														
DP-75-01	1/75	0												SD312660 XBT46551		
	4/75	132														
<u>EASTWARD</u>																
E-1A-70	1/02/70															
	1/08/70													8 0	X	
E-1B-70	1/10/70															
	1/17/70													120 0	TC	
E-1C-70	1/20/70	7														
	1/26/70	7												SD311892 MBT23338	TC, BP 88/0, Micronekton 21/0	
E-1D-70	1/28/70															
	2/04/70													33 0	X	
E-1E-70	2/09/70														TC, BP 1/0	
	2/23/70													53 0		
E-1F-70	2/21/70	8													TC, BP 3/0, ZB 16/0	
	3/02/70	1	23	0	23	24		10						SD311892 MBT23167		
E-1G-70	3/03/70	6													MBT23168	
	3/10/70	12						0	1	31	0			SD311892	TC, Bacteria 6/0, Primary Productivity 3/0	
33A-70	12/27/70														BP 3/0	
	1/02/71													16 0		
														3 0		
33D-71	1/17/71	1													SD311893	BP 3/0, ZB 1/0
	1/25/71	1													6 0	
33F-71	2/12/71	15						14							105 0	
	2/18/71	15						0		34	0	15	0	SD311893 MBT23341	TC, Primary Productivity 6/0	

COUNTRY: UNITED STATES OF AMERICA

INST/SHIP/ORIG	DATE	NAN	STD	XBT	MBT	CUR	ZOO	PHY	OTH GEO	GEO	GRAV	MAG	BATH	U.S. NODC		REMARKS	
														REF. NO.			
<u>EASTWARD</u>																	
33G-71	2/19/71 2/23/71	<u>1</u> <u>1</u>				<u>6</u>			<u>28</u> 0	<u>28</u> 0				Cont	SD311893 MBT23340	TC, BP 7/0	
33H-71	2/23/71 2/25/71													Cont		TC, BP 11/0, ZB 2/0	
33I-71	2/26/71 3/03/71	<u>5</u> <u>5</u>				<u>21</u> <u>21</u>			<u>2</u> 0					Cont	SD311893 MBT23339	Primary Productivity 2/0, ZB 20/0, TC, BP 5/0	
33J-71	3/04/71 3/10/71	<u>0</u> <u>15</u>				<u>0</u> <u>9</u>									SD311893 MBT23342		
22B-71	8/31/71 9/14/71					<u>44</u> <u>44</u>			<u>12</u> 0	<u>31</u> 0	<u>52</u> 0			Cont	XBT41979	BP 17/0	
31A-71	12/29/71 1/13/72	<u>13</u> <u>13</u>							<u>23</u> 0					<u>4500</u> 0	SD311953	TC, BP 5/0	
31B-72	1/19/72 1/29/72								<u>118</u> 0							BP 1/0	
31C-72	2/72	<u>5</u> <u>5</u>				<u>7</u> 0	<u>7</u> 0	<u>7</u> 0	<u>55</u> 0						SD311953		
31D-72	2/10/72 2/15/72	<u>5</u> <u>5</u>				<u>8</u> 0		<u>2</u> 0	<u>19</u> 0					<u>882</u> 0	SD311953	ZB 5/0, BP 6/0, Primary Productivity 3/0	
31E-72	2/16/72 2/25/72	<u>13</u> <u>13</u>				<u>19</u> 0			<u>16</u> 0	<u>25</u> 0				<u>1571</u> 0	SD311953	Primary Productivity 4/0	
E23H	3/06/73 3/10/73	<u>1</u> <u>1</u>				<u>7</u> 0									SD310528	ZB 13/0, PPC 3/0, Primary Pro- ductivity 3/0	
E23I	3/10/73 3/13/73								<u>10</u> 0								
E-1G-74	3/74 3/74	<u>0</u> <u>5</u>													SD312503		
E-3-74	4/24/74 4/29/74	<u>64</u> <u>63</u>		<u>14</u> 0	<u>3</u> 0	<u>60</u> 0		<u>18</u> 0	<u>50</u> 0	<u>37</u> 0					SD312312	Drift Bottles 36/0, Primary Productivity 17/0	
E-1G-75	4/75 4/75	<u>0</u> <u>43</u>													SD317168		

COUNTRY: UNITED STATES OF AMERICA

INST/SHIP/ORIG	DATE	NAN	STD	XBT	MBT	CUR	ZOO	PHY	GEO	OTH GEO	GRAV	MAG	BATH	U.S. NODC REF. NO.	REMARKS
<u>GALLATIN</u>															
-	11/22/72	0												SD312125	
	11/22/72	<u>1</u>												XBT44023	
<u>GERDA</u>															
17	06/20/70	0												SD311774	
	06/30/70	<u>15</u>													
24	09/01/70	0												SD311775	
	09/08/70	<u>45</u>													
27	09/29/70													SD318381	
	10/03/70	<u>58</u>													
1A	01/28/71	0												SD311773	
	01/28/71	<u>1</u>													
7127	11/10/71	<u>2</u>			<u>2</u>									MBT24005	CR, TC, Bongo Net 2/0
	11/10/71	<u>2</u>			<u>2</u>									SD317057	
7202	02/01/72	<u>15</u>				<u>15</u>								CR, TC, Bongo Net 15/0	
	02/08/72	<u>0</u>				<u>0</u>								Neuston 5/0	
2	6/74	0												XBT45793	
	6/74	<u>12</u>													
<u>GIBBS</u>															
70-01-06	10/15/70													<u>1660</u>	TC, 1370 miles of Reflection Pro-
	10/27/70													<u>0</u>	filing BATH WB
<u>GILLIS</u>															
GS7203	6/72	0												XBT44110	
		<u>106</u>													
GS7205	09/25/72	0												SD312400	
	11/29/72	<u>91</u>													
GS7303	02/25/73													SD3100013	HRS STD special processing. Description of current data in Van Leer, Johnson, Mehr, Cyclesonde Data Report, Nov. 74, University of Miami, UM-RSMAS 74033.
	03/11/73	<u>149</u>				<u>149</u>									
						<u>13</u>									

COUNTRY: UNITED STATES OF AMERICA

INST/SHIP/ORIG	DATE	NAN	STD	XBT	MBT	CUR	ZOO	PHY	GEO	OTH GEO	GRAV	MAG	BATH	U.S. NODC REF. NO.	REMARKS
<u>GILLIS</u>															
GS7304	2/73	0												SD312402	
	3/73		<u>74</u>												
MIA	6/73		0											SD318401	
			<u>139</u>												
GS7502	02/27/75														
	04/29/75														
GS7504	05/21/75													CCC	
	06/07/75														
GS7506	07/08/75													CCC	
	07/28/75														
GS7507	08/13/75													CCC	
	08/27/75														
GS7509	10/03/75													CCC	
	10/21/75														
GS7510	11/05/75													CCC	
	11/24/75														
<u>GULF RESEARCHER</u>															
GR6901	1/69	0												SD322442	
	1/69		<u>12</u>												
GR6902	2/69	0												SD322443	
	2/69		<u>12</u>												
GR6903	3/69	0												SD322444	
	3/69		<u>12</u>												
GR6904	4/69	0												SD322445	
	5/69		<u>12</u>												
GR6906	5/69	0												SD322449	
	5/69		<u>8</u>												
7203	3/72	0												SD322404	
	3/72		<u>54</u>												

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INST/SHIP/ORIG	DATE	NAN	STD	XBT	MBT	CUR	ZOO	PHY	GEO	OTH GEO	GRAV	MAG	BATH	U.S. NODC REF. NO.	REMARKS
<u>GULF STREAM</u>															
70-73	10/02/70														TC, EGMEX III, Drift Bottles 26/0
	10/02/70														
70-74	10/04/70														TC, EGMEX III, Drift Bottles 22/0
	10/04/70														
70-75	10/15/70														TC, EGMEX III, Drift Bottles 24/0
	10/15/70														
70-76	10/16/70														TC, EGMEX III, Drift Bottles 16/0
	10/16/70														
70-77	11/02/70														TC, EGMEX III, Drift Bottles 26/0
	11/02/70														
70-78	11/03/70														TC, EGMEX III, Drift Bottles 26/0
	11/03/70														
<u>GYRE</u>															
74-G-1	02/03/74														TC, CR, BATH WB
	02/06/74														
74-G-7	04/26/74	6	2	8					2	2	2	28			TC, BATH WB
	04/30/74	0	0	0					0	0	0	0			
74-G-8	05/12/74	1		5					3		27				BATH WB
	05/18/74	0		0					0		0				
74-G-9	05/27/74	41							8	8	16				TC, Particulate Organic Matter 41/0
	06/05/74	0							0	0	0				
<u>HAMILTON</u>															
HT1	02/18/71				0	0									SD318264
	03/04/71				6	112									XBT42942
A7	05/23/73		0												SD312199
-	2/75	0													SD312665
	2/75	11													XBT45751
<u>HERNAN CORTEZ</u>															
HC-85	6/70				8										SD312431
	6/70				8										

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INST/SHIP/ORIG	DATE	NAN	STD	XBT	MBT	CUR	ZOO	PHY	GEO	OTH GEO	GRAV	MAG	BATH	U.S. NODC REF. NO.	REMARKS
<u>ISLAND WATERS</u>															
7001	05/02/70 05/13/70	16 0	24 24			18 0	357 0	8 0						SD318165	CR, TC Drift Bottles 768/357
7003	06/05/70 06/08/70	4 0				13 0		3 0							TC, BP 3/0, ZB 3/0
7004A	06/11/70 06/15/70	9 9			30 30		6 6	6 0						SD311849 XBT41394	CR, TC, EGME II Drift Bottles 456/19
7004D	06/15/70 06/26/70	14 13	25 0	53 0	8 0	57 0								SD311849	CR, TC Drift Bottles 192/0
7004B	06/17/70 06/26/70	14 14	26 0	53 0	7 0	28 28								SD311849	CR, TC, 22 ICITA Net 20 Open-close Net Drift Bottles 192/0
7005	07/29/70 08/03/70														CCC
7007	10/23/70 11/03/70	1 0	37 0	52 57										XBT45512	CR, TC
7022	7/70 8/70	6 0					6 0	6 0							
7030	10/70 11/70				52 0		59 0								EGMEX III
<u>JOIE DE VIVRE</u>															
7008	05/02/70 05/03/70					18 0									CR, TC, Physalia Sp. 10/0, Drift Bottles 432/0
7010	05/16/70 05/18/70	7 6	7 0				7 0	7 0						SD317055	CR, TC
7023	09/17/70 09/18/70	6 8												SD317023	Humic acid 8/0
7030	10/23/70 11/03/70				52 0		59 0								CR, TC, ICITA Net 59/0
<u>KANE</u>															
932008	01/13/72 04/11/72			79 79	202 200					5893 0	9261 0	SD318287 XBT42407		3148 miles of Reflection Profiling	

COUNTRY: UNITED STATES OF AMERICA

INST/SHIP/ORIG	DATE	NAN	STD	XBT	MBT	CUR	ZOO	PHY	GEO	OTH GEO	GRAV	MAG	BATH	U.S. NODC REF. NO.	REMARKS
<u>KEATHLEY</u>															
910039	04/18/70 05/12/70									5542 0	5430 5430	5568 0		5303 miles of Reflection Profiling, BATH WB	
910040	05/18/70 06/12/70									5656 0	5640 5640	5700 0		TC, 5600 miles of Reflection Profiling, BATH WB	
<u>KNORR</u>															
19	3/71			0 <u>14</u>										XBT41476	
25	03/09/72 05/01/72	156 <u>122</u>			41 <u>0</u>		4 <u>0</u>	4 <u>0</u>		1000 0	SD311708			CCC, Drift Bottles 156/156 CR, 310118, BATH WB	
30	9/72 10/72	12 <u>0</u>	11 <u>0</u>											Stations with additional Chemical Parameters, 12/0	
37	01/25/74 03/07/74	90 <u>102</u>		207 <u>44</u>	66 <u>69</u>	112 <u>0</u>	30 <u>0</u>	30 <u>0</u>		500 0	MBT740213(46)ACC MBT740377(23)ACC	CCC, Drift Bottles 400/0 BATH WB		SD312276(10) SD312339(92) XBT49210	
<u>LYNCH</u>															
910028	03/15/69 05/07/70			38 <u>0</u>		13 <u>0</u>				5430 0	7110 0			BP 17/0, 5430 miles of Reflection Profiling, BATH WB	
910019	01/06/70 01/20/70	7 <u>0</u>	10 <u>0</u>			26 <u>0</u>		2 <u>0</u>						BP 2/0	
709-70	01/24/70 02/06/70	28 <u>0</u>	16 <u>16</u>	4 <u>0</u>				8 <u>0</u>	30 <u>0</u>					TC, STD not processed	
910021	01/24/70 02/14/70	45 <u>0</u>		6 <u>0</u>		18 <u>0</u>		21 <u>0</u>							
911013	01/04/71 01/17/71			24 <u>0</u>				5 <u>0</u>							
706-71	01/14/71 01/31/71						20 <u>10</u>			1200 0				TC, BP 5/0, 900 miles of Reflection Profiling	
911027	01/14/71 01/31/71							27 <u>4</u>		600 0				BP 5/0, 600 miles of Reflection Profiling, BATH WB	

COUNTRY: UNITED STATES OF AMERICA

INST/SHIP/ORIG	DATE	NAN	STD	XBT	MBT	CUR	ZOO	PHY	GEO	OTH GEO	GRAV	MAG	BATH	U.S. NODC REF. NO.	REMARKS
<u>LYNCH (Cont'd)</u>															
911030	02/05/71 02/18/71			<u>9</u> <u>0</u>						X				BP 7/0	
912021	05/11/72 06/19/72			<u>8</u> <u>0</u>	<u>28</u> <u>8</u>						<u>1200</u> <u>0</u>	XBT42541		BATH WB	
913024	03/13/73 03/23/73				<u>12</u> <u>0</u>						<u>300</u> <u>0</u>			BATH WB	
<u>MELVILLE</u>															
Leg 7	11/15/72 12/10/72													CCC	
<u>MENDOTA</u>															
A7	09/20/71			<u>0</u> <u>16</u>								SD311935			
<u>MORGENTHAU</u>															
A7	03/11/74 03/13/74			<u>0</u> <u>12</u>								SD312395			
<u>OREGON II</u>															
8	04/15/69 05/28/69													CCC	
13	11/04/69 12/18/69			<u>0</u> <u>15</u>							XBT48900		CCC		
18	05/23/70 06/20/70													CCC	
19	08/03/70 09/03/70													CCC	
20	09/11/70 09/16/70														
22	10/20/70 12/04/70			<u>40</u> <u>42</u>							XBT41141 XBT41282 XBT48905 XBT48906		CR, TC, Fisheries Research 93/0		

COUNTRY: UNITED STATES OF AMERICA

INST/SHIP/ORIG	DATE	NAN	STD	XBT	MBT	CUR	ZOO	PHY	GEO	OTH GEO	GRAV	MAG	BATH	U.S. NODC REF. NO.	REMARKS
<u>OREGON II (Cont'd)</u>															
23	12/14/70 03/12/71	48 0		4 0			27 0								Neuston, 27/0, Fisheries Research 37/0
7129	08/09/71 08/29/71	44 45	4 0	111 0			98 0			SD312380					TC, CR, Open-close Nets 20/0 Bongo Net 9/0, Neuston 66/0 Drift Bottles 1260/0
-	2/72	10 0													CCC
38	06/12/72 07/07/72														CCC
7239	07/13/72 08/07/72	45 45		154 151			49 0			SD312117 XBT43658					Fisheries Research 65/0, TC, PPC 49/0
7343	02/05/73 03/15/73		50 0	170 162			38 0			XBT44722					Neuston 53/0, PPC 48/0 Fisheries Observations 25/0
7344	3/73 4/73						99 0								Fisheries Research 384/0
45-I	5/73 5/73			104 104						XBT44709					
73-45 II	5/73 6/73			63 63						XBT44710					
49	01/15/74 02/28/74														CCC
-	04/22/75 06/04/75														CCC
-	6/75 6/75														Oil slicks and other floating pollutants 0/10 Access No. 750802
-	06/10/75 07/03/75														CCC
-	7/75 8/75														Oil slicks and other floating pollutants 0/36 Access No. 750823
-	07/15/75 08/08/75														CCC

COUNTRY: UNITED STATES OF AMERICA

INST/SHIP/ORIG	DATE	NAN	STD	XBT	MBT	CUR	ZOO	PHY	GEO	OTH GEO	GRAV	MAG	BATH	U.S. NODC REF. NO.	REMARKS
<u>OREGON II (Cont'd)</u>															
-	08/12/75 08/22/75													CCC	
-	09/23/75 10/10/75													CCC	
-	10/21/75 11/21/75													CCC	
-	11/25/75 12/12/75													CCC	
<u>PALUMBO PAOY</u>															
-	11/71 12/71	23 0	9 0		8 0		12 0	3 0	6 0					Fisheries Research 15/0	
-	1/71	23 0	10 0		20 0		8 0	7 0	X 0					CCC, Fisheries Research 23/0	
-	1/73 8/73	118 119												SD322650	
-	1/74 11/74	157 157												SD322651	
<u>PEIRCE</u>															
RP-9-70	10/09/70 10/29/70			148 140	238 205	1178 0								XBT41429 XBT41430 MBT23259 MBT23260	
														TC, Current Drogues	
<u>PILLSBURY, J. E.</u>															
4	04/12/69 04/29/69		0 21											SD318424	
-	10/26/69 11/09/69		0 18											SD318425	
P7002	01/28/70 02/14/70	0 29	0 31											SD318441 SD311839	

COUNTRY: UNITED STATES OF AMERICA

INST/SHIP/ORIG	DATE	NAN	STD	XBT	MBT	CUR	ZOO	PHY	GEO	OTH GEO	GRAV	MAG	BATH	U.S. NODC REF. NO.	REMARKS
<u>PILLSBURY, J. E.</u>															
7004	4/18/70 5/17/70	53 0	31 37						26 0	75 0				SD318185	CP, TP, Pesticides 41/0, Pollution 41/0, Bird Sightings 50/0, <u>Physalia</u> Sp. 50/0, Drift Bottles 240/0
<u>RESEARCHER</u>															
RP-9-RE-71	7/13/71 9/01/71	35 33	80 81	393 393	259 259	1977 1977			3240 0	3240 0	7000 0			SD311898 SD318358 MBT23472 XBT41898	TC, NOAA Pub. ERL AOML #19 (Apr. 73) Drift Bottles 720/0, BATH WB and NB
RP-12-RE-71	9/15/71 11/18/71		6 6			3 0			16540 16540	16540 16540	16540 16540			XBT41897 NGSDC00102	TC, 3150 miles of Reflection Profiling received. NOAA Tech. Report ERL 293-AOML 13, Boulder, CO (Oct. 1973) [Bathymetry]. NOAA Tech. Report ERL 288-AOML 12, Boulder, CO (Oct. 1973) [Magnetics]. Drift Bottles 240/0 BATH 14630 WB and 19080 NB
RUSEF II	4/75 4/75			18 18										XBT45774	
RP-3-RE-75	5/16/75 6/06/75	43 0	23 0	144 0					4731 0						TC, PPC 112/0, BATH NB and km
RP-3-RE-75	6/11/75 6/30/75		68 0	243 0					4533 0						TC, PPC 175/0, BATH NB and km Oil slicks and other floating pollutants 16/0
RP-RE12-75	10/16/75 11/25/75		138 0	262 0		10 0			4920 0						TC, Current Measurements by drogues, BATH NB and km
<u>ROCKAWAY</u>															
-	7/10/71 7/20/71	10 0	8 0	32 0					7 0	7 0	7 0	7 0		TC	
RCC	7/27/71 8/09/71		16 16	42 40									X	SD318271 XBT41744	

COUNTRY: UNITED STATES OF AMERICA

INST/SHIP/ORIG	DATE	NAN	STD	XBT	MBT	CUR	ZOO	PHY	GEO	OTH	GEO	GRAV	MAG	BATH	U.S. NODC REF. NO.	REMARKS
<u>SILAS BENT</u>																
933007	1/73 4/73														SD3100039	HRS STD special processing
<u>THOMPSON, T. G.</u>																
-	1/70 2/70			0											XBT48761	
066	1/72 2/72	0													SD312667	
-	12/72 1/73			0											XBT48776	
<u>TRIDENT</u>																
079	3/01/70 3/22/70									12	0	6096	6652			TC, 1 BP, 590 km of Reflection Profiling, BATH WB, MAG and BATH in km
080	3/25/70 4/18/70			0		14		2							XBT41139 TR0036	CR, TC, AS 104/0, Fisheries Research 4/0, Box Line 1/0, 1 CM launched, 33 km of Reflection Profiling
092	1/03/71 1/19/71			33		33									XBT50043	CR, TC, AS 40/0, Fisheries Research 5/0
093	1/21/71 1/23/71						9	0							CR, TC	
094	1/24/71 2/02/71			4		3									XBT50042	CR, TC, AS 132/0, Fisheries Research 1/0
095	2/03/71 2/17/71			32		16									SD312541	TC
096	2/21/71 3/28/71									5	0	3520	3600			TC, BP 4/0, 2650 km of Reflection Profiling, BATH WB, MAG and BATH in km
097	3/31/71 4/08/71	8		9		6			18	0	39	0			SD312666	CR, TC, Micronekton 15/0
106	11/23/71 11/30/71	24		24	32	0	25	22							NAN721177ACC XBT43416	CR, TC

COUNTRY: UNITED STATES OF AMERICA

INST/SHIP/ORIG	DATE	NAN	STD	XBT	MBT	CUR	ZOO	PHY	GEO	OTH GEO	GRAV	MAG	BATH	U.S. NODC REF. NO.	REMARKS
<u>TRIDENT (CONTD)</u>															
109	1/03/72 1/18/72	0 <u>7</u>		0 <u>13</u>										XBT43419 SD312543	
110	1/22/72 2/09/72								5 0		4080 0	4320 0			CR, TC, BATH WB, 2539 km of Reflection Profiling, MAG and BATH in km
111	2/12/72 3/04/72	26 <u>27</u>		14 <u>14</u>					11 0					NAN721139ACC XBT721021ACC	CR, TC, Sea surface micro-layer samples 6/0, Atmospheric parti- culate samples 16/0
127	11/29/72 12/12/72	25 <u>25</u>		29 <u>0</u>					5 0					SD312645	CR, TC, Particulate Organic Matter 19/0
128	12/14/72 12/21/72			75 <u>51</u>										XBT50041	CR, TC, Microbiology of Coves Bottom 2/0
130	1/17/73 1/31/73			22 <u>21</u>										XBT45785	CR, CCC
131	2/03/73 2/22/73	64 <u>64</u>	36 0	11 <u>11</u>					31 0					SD312646 XBT45784	CR, TC
132	2/25/73 3/05/73	7 <u>7</u>		20 <u>20</u>					7 0					SD312647 XBT45783	TC
134	4/08/73 4/19/73	13 <u>13</u>		12 <u>12</u>										XBT45782 SD312648	
146	1/18/74 1/28/74	0 <u>9</u>												SD312686	CCC, CR
147	2/02/74 2/15/74	10 0	8 0						19 0						CR, TC, BP 4/0
148	2/19/74 3/08/74								8 0		3000 0	3000 0			CR, TC, 130 miles of Reflection Profiling, Geophysical Data sent to NGSDC by URI, BATH and WB
149	3/11/74 3/27/74								36 0		420 0				CR, TC, 2000 miles of Reflection Profiling
150	4/01/74 4/09/74			37 0				6 0							CR, TC

COUNTRY: UNITED STATES OF AMERICA

INST/SHIP/ORIG	DATE	NAN	STD	XBT	MBT	CUR	ZOO	PHY	GEO	OTH GEO	GRAV	MAG	BATH	U.S. REF. NO.	NODC NO.	REMARKS
<u>TRIDENT (CONTD)</u>																
151	4/12/74 4/24/74	5 0	12 0	16 16						1300 0	XBT45780		BATH and WB			
157	9/08/74 10/02/74			32 32							XBT45298		CCC, CR			
158	10/14/74 10/23/74															
159	10/26/74 11/13/74	36 0	31 0						7 0				Pollution 38/0, Organic Carbon 38/0			
160	11/16/74 12/02/74		31 0	145 141		5 0					XBT45775		CR, TC			
161	12/06/74 12/19/74			240 0									5 Net Tows			
162	1/28/75 2/07/75	8 0							7 0				TC			
166	4/26/75 5/09/75	22 0		3 3					16 0		XBT50040		TC			
168	5/24/75 6/11/75			319 269							XBT48871					
169	6/22/75 7/11/75			21 21							XBT48870					
<u>TURSIOPS</u>																
7015	4/28/70 5/13/70	22 22	3 3	31 0		13 0					SD318218		CR, TC, Drift Bottles 648/0			
7016	5/15/70 6/03/70		4 0			4 0							CCC, Fisheries Research 3/0			
7017	8/01/70 9/01/70												CCC			
7020	10/22/70 11/02/70		31 24	27 29		19 0			5 0		SD318464 XBT45511		CT, TC, 19/0 Open-close Nets 4/0 Try net Tows, 6/0 ZB, Drift Bottles 96/0			

COUNTRY: UNITED STATES OF AMERICA

INST/SHIP/ORIG	DATE	NAN	STD	XBT	MBT	CUR	ZOO	PHY	GEO	OTH GEO	GRAV	MAG	BATH	U.S. NODC REF. NO.	REMARKS
<u>TURSIOPS (CONTD)</u>															
7114	5/07/71			<u>39</u>	<u>39</u>			<u>10</u>		<u>2</u>				SD318298 MBT23999	CR, TC, ICITA Net 37/0, Neuston 18/0, Mid-Water Trawl 2/0
7121	8/07/71	<u>75</u>		<u>20</u>	<u>0</u>	<u>63</u>								SD312005 MBT24006	CR, TC, Bongo Net 51/0, ICITA Net 46/0, Drift Bottles 972/0
7126	9/14/71	<u>38</u>			<u>40</u>			<u>0</u>		<u>12</u>				SD311851	CR, TC
7129	11/71							<u>0</u>						MBT24000	
7211	11/71							<u>35</u>						SD312208	
-	5/05/75													CCC	
-	5/23/75														
-	5/29/75			<u>0</u>	<u>23</u>	<u>0</u>		<u>28</u>						SD317167 XBT49491	CCC
-	8/22/75													CCC	
-	11/15/75														

UNITEDGEO I

21-1	5/27/71								<u>3880</u>	<u>3880</u>	<u>3880</u>		NGSDC 00080	50 miles of Reflection Profiling, U.S. Geol. Survey Pub. USGS-GD-72- 002 (1972)	
	6/21/71								<u>3880</u>	<u>3880</u>	<u>3880</u>				
21-2	6/19/71		<u>3</u>						<u>7</u>	<u>1</u>	<u>2800</u>	<u>2800</u>	<u>2400</u>	NGSDC 00081	2400 miles of Reflection Profiling U.S. Geol. Survey Pub. USGS-GS-72- 003 (1972)
	7/14/71		<u>0</u>						<u>0</u>	<u>0</u>	<u>2800</u>	<u>2800</u>	<u>2400</u>		
											WB				
21-3	7/07/71								<u>1</u>	<u>0</u>	<u>3028</u>	<u>3028</u>	<u>3028</u>	NGSDC 00082	3028 miles of Reflection Profiling, U.S. Geol. Survey Pub. USGS-GD-72- 004. (1972)
	8/07/71										<u>3028</u>	<u>3028</u>	<u>3028</u>		
											WB				
21-4	8/18/71								<u>4200</u>	<u>4200</u>	<u>4200</u>		NGSDC 00083	4200 miles of Reflection Profiling U.S. Geol. Survey Pub. USGS-GD-72- 005 (1972)	
	10/13/71								<u>4200</u>	<u>4200</u>	<u>4200</u>				
											WB				

COUNTRY: UNITED STATES OF AMERICA

INST/SHIP/ORIG	DATE	NAN	STD	XBT	MBT	CUR	ZOO	PHY	GEO	GEO	OTH	GRAV	MAG	BATH	U.S. NODC REF. NO.	REMARKS
<u>VEMA</u>																
-	4/22/75 5/22/75														CCC	
-	5/24/75 6/19/75														CCC	
<u>VENTURA</u>																
-	1/73 1/73			<u>0</u>											XBT44813	
<u>VIRGINIA KEY</u>																
72-12, 13	4/27/72 5/30/72			<u>69</u>	<u>124</u>						<u>1800</u>		XBT42490 STD740115	ACC	TC, NOAA Pub. ERL AOML-22	
73-09	4/73 5/73			<u>0</u>	<u>0</u>										XBT44816 SD318389	
73-13	6/08/73 6/17/73			<u>8</u>	<u>60</u>		X								XBT45205	
73-16	7/07/73 7/09/73			<u>0</u>	<u>0</u>										XBT44818 SD318391	
73-21	8/12/73 8/15/73			<u>0</u>	<u>0</u>										SD318392 XBT44819	
73-27	9/18/73 9/20/73			<u>0</u>	<u>0</u>										SD318393 XBT44820	
-	6/02/73 6/04/73			<u>0</u>											SD318390	
-	4/30/75 6/13/75														CCC	
-	8/01/75 8/15/75														CCC	
-	10/01/75 11/15/75														CCC	
-	2/73			<u>77</u>									XBT44814(61) XBT45196(16)	CCC		

COUNTRY: UNITED STATES OF AMERICA

<u>INST/SHIP/ORIG</u>	<u>DATE</u>	<u>NAN</u>	<u>STD</u>	<u>XBT</u>	<u>MBT</u>	<u>CUR</u>	<u>ZOO</u>	<u>PHY</u>	<u>GEO</u>	<u>OTH</u>	<u>GEO</u>	<u>GRAV</u>	<u>MAG</u>	<u>BATH</u>	<u>U.S. NODC</u>	<u>REF. NO.</u>	<u>REMARKS</u>
<u>VIRGINIA KEY</u>																	
-	3/73														XBT44815	CCC	
				<u>52</u>													
				<u>52</u>													
7523	5/28/75 6/12/75			<u>30</u>	<u>0</u>	<u>103</u>			<u>6</u>							TC, Current measurements by drogues	
7524	6/16/75 6/29/75			<u>44</u>	<u>0</u>	<u>63</u>			<u>6</u>							TC, Current measurements by drogues	
7525	8/18/75 8/31/75			<u>54</u>	<u>0</u>	<u>71</u>										TC	
7527	11/07/75 11/23/75	<u>14</u>	<u>0</u>	<u>25</u>	<u>0</u>	<u>17</u>						<u>4920</u>	<u>0</u>			Drogues Buoys 10/0, BATH NB	
<u>WILKES</u>																	
932008	1/31/72 4/01/72					<u>64</u>						<u>1548</u>	<u>0</u>			4813 miles of Reflection	
						<u>0</u>						<u>4270</u>	<u>0</u>			Profiling, BATH 1548 WB	
																BATH 4270 NB	
932010	6/05/72 9/29/72			<u>26</u>	<u>26</u>	<u>42</u>			<u>22</u>			18070	<u>18070</u>	SD318294		18070 miles of Reflection	
													<u>0</u>			Profiling, BATH WB and NB	
												<u>18070</u>	<u>0</u>				
933008	2/01/73 2/25/73			<u>4</u>	<u>0</u>	<u>4</u>						<u>1352</u>	<u>0</u>	<u>2743</u>	<u>0</u>	1292 miles of Reflection	
																Profiling, BATH WB and NB	
												<u>2743</u>	<u>0</u>				
343517	2/75 4/75	<u>2</u>	<u>4</u>	<u>0</u>	<u>10</u>	<u>0</u>										SD3100032 XBT45723	HRS STD Special Processing

COUNTRY: VENEZUELA

INST/SHIP/ORIG	DATE	NAN	STD	XBT	MBT	CUR	ZOO	PHY	GEO	OTH	GEO	GRAV	MAG	BATH	U.S. NODC REF. NO.	REMARKS
<u>U001</u>																University of Oriente Oceanographic Institute
<u>LA SALLE</u>																
7001	3/31/70 4/04/70														TC	
7002	4/07/70 4/23/70														SD 930010 TC	
7003	11/11/70 11/17/70														TC	
7004	11/17/70 12/16/70														TC	
—	8/71														CCC	
7201	4/12/72 4/29/72														SD 930014 TC, Fisheries Research 20/0	
7202	4/30/72 5/03/72														TC	
7203	8/23/72														TC	
7204	9/06/72 9/14/72														TC	
7205	11/14/72 11/30/72														SD 930029 TC, Fisheries Research 10/0	
7206	11/30/72 12/04/72														TC	

COUNTRY: VENEZUELA												
INST/SHIP/ORIG	DATE	NAN	STD	XBT	MBT	CUR	ZOO	PHY	GEO	OTH GEO	U.S. NODC REF. NO.	REMARKS
<u>VMAFBL</u>											Venezuela, Ministry of Agriculture Fishery Biology Laboratory	
GOLFO DE CARIACO												
A14		3/69			0						MBT 22959	
		3/69				48						
A15		4/69			0						MBT 22960	
		4/69				49						
A16		5/69			0						MBT 22961	
		5/69				52						
A17		6/69			0						MBT 22962	
		6/69				49						
A18		9/69			0						MBT 22963	
		9/69				51						
A19		10/69			0						MBT 22964	
		10/69				45						
A20		11/69			0						MBT 22965	
		11/69				46						
A21		1/15/70			0						MBT 22966	
		1/20/70				41						
B13		3/69			0						MBT 22967	
		3/69				31						
B14		4/69			0						MBT 22968	
		4/69				36						
B15		5/69			0						MBT 22969	
		5/69				39						
B16		6/69			0						MBT 22970	
		6/69				39						
B17		8/69			0						MBT 22971	
		8/69				28						

COUNTRY: VENEZUELA

INST/SHIP/ORIG	DATE	NAN	STD	XBT	MBT	CUR	ZOO	PHY	GEO	OTH GEO	GRAV	MAG	BATH	U.S. NODC REF. NO.	REMARKS
<u>VMAFBL</u>												Venezuela, Ministry of Agriculture Fishery Biology Laboratory			
<u>GOLFO DE CARIACO (Cont'd)</u>															
B18		10/69											MBT 22972		
		10/69													
B19		11/69											MBT 22973		
		11/69													
B20		12/69											MBT 22974		
		12/69													
B21		2/02/70											MBT 22975		
		2/04/70													

PART II

The processed Station/STD/CTD data available as of November 1976 for the CICAR area are presented as the annual average distribution of temperature, salinity and density ($\sigma - t$) by 2-degree rectangles at selected standard depth levels. These standard depth level plots were produced using the NODC's routine General Applications System (GAS) computer programs. The number of available observations and the maximum and minimum values within each rectangle are also shown. Vertically interpolated values are used at those standard depths at which no observed values were available.

The annual average standard depth distributions included in this report serve as:

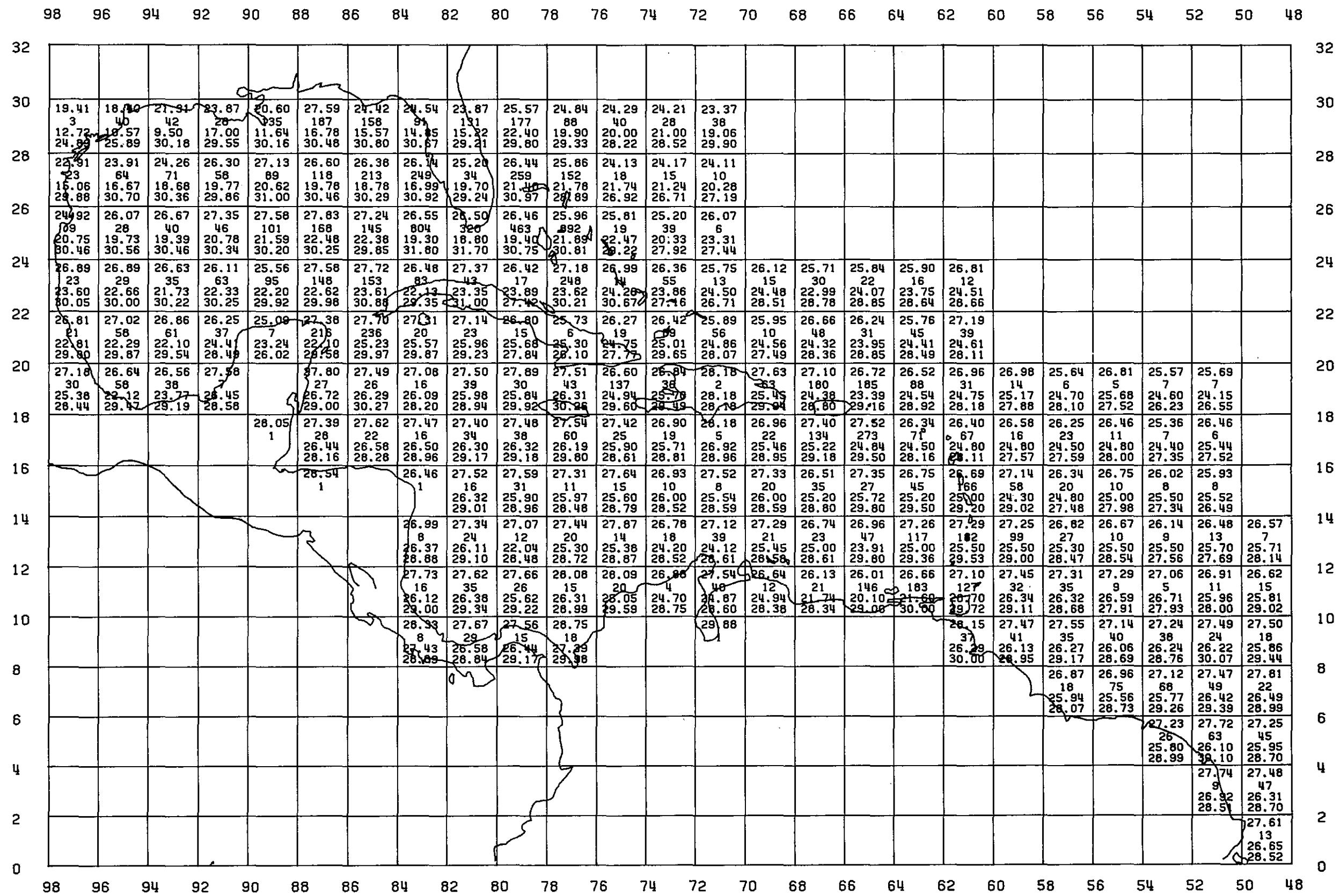
1. A long term average "base line" distribution against which individual CICAR data sets can be compared.
2. A special type of parameter-oriented inventory illustrating both the nature of the data and the decrease in sampling rate as a function of depth.

The maxima and minima, ideally, are illustrative of the range of the value of the parameter within each 2-degree rectangle. They may also act as a check for erroneous or anomalous data which fall

well outside normal limits. The maximum or minimum temperature and density values in a few 2-degree rectangles, e.g., in Yucatan Straits and Windward Islands at the deeper levels, are not plausible. Although a small amount of "bad" data is sufficient to give rise to such implausible values and although the average value may not be affected, these data must be identified and corrected. It is one of the continuing tasks of the RDC CICAR, in collaboration with the originator of the data, to correct and reprocess any cruises containing potential errors that are to be included in the NODC geographically-sorted data files. Cruises that cannot be reprocessed are, of course, nevertheless permanently retained as part of the CICAR data archives either in the "Cruise-Sequenced Data Files," or in the "Unprocessed Data Files."

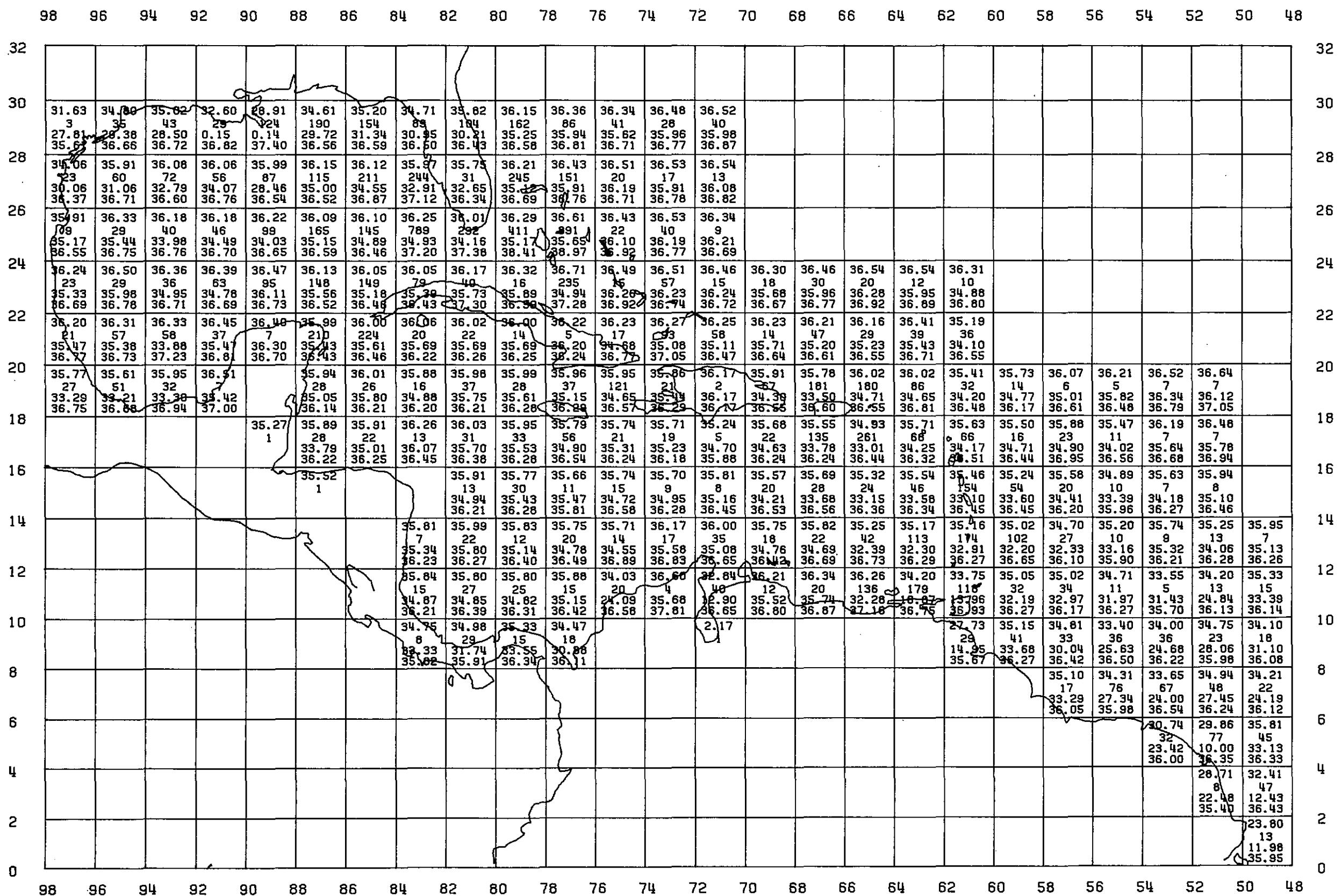
TEMPERATURE
0 METER DEPTH

MONTHS 1 TO 12
12414 STATIONS WERE PLOTTED



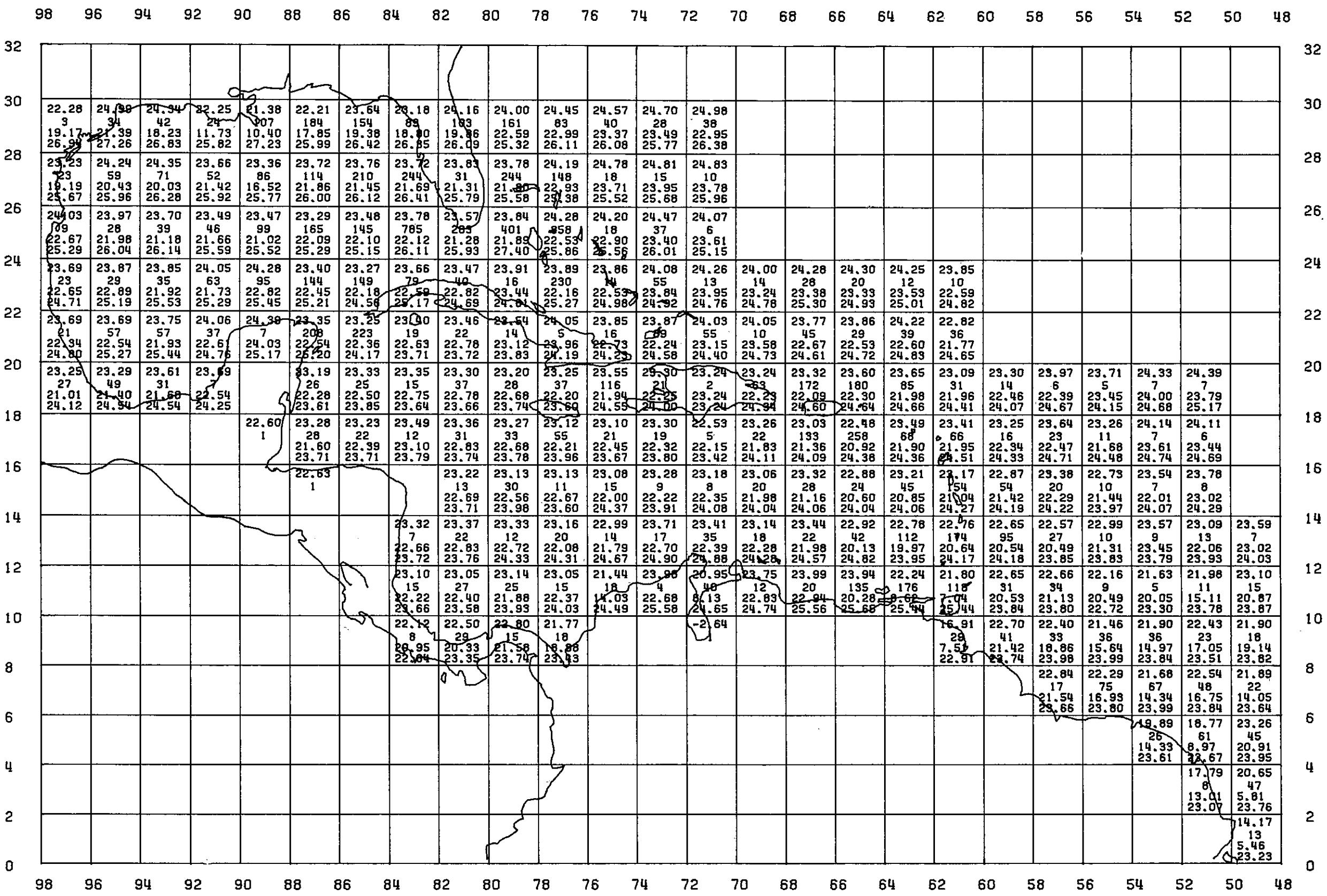
SALINITY
0 METER DEPTH

MONTHS 1 TO 12
12003 STATIONS WERE PLOTTED



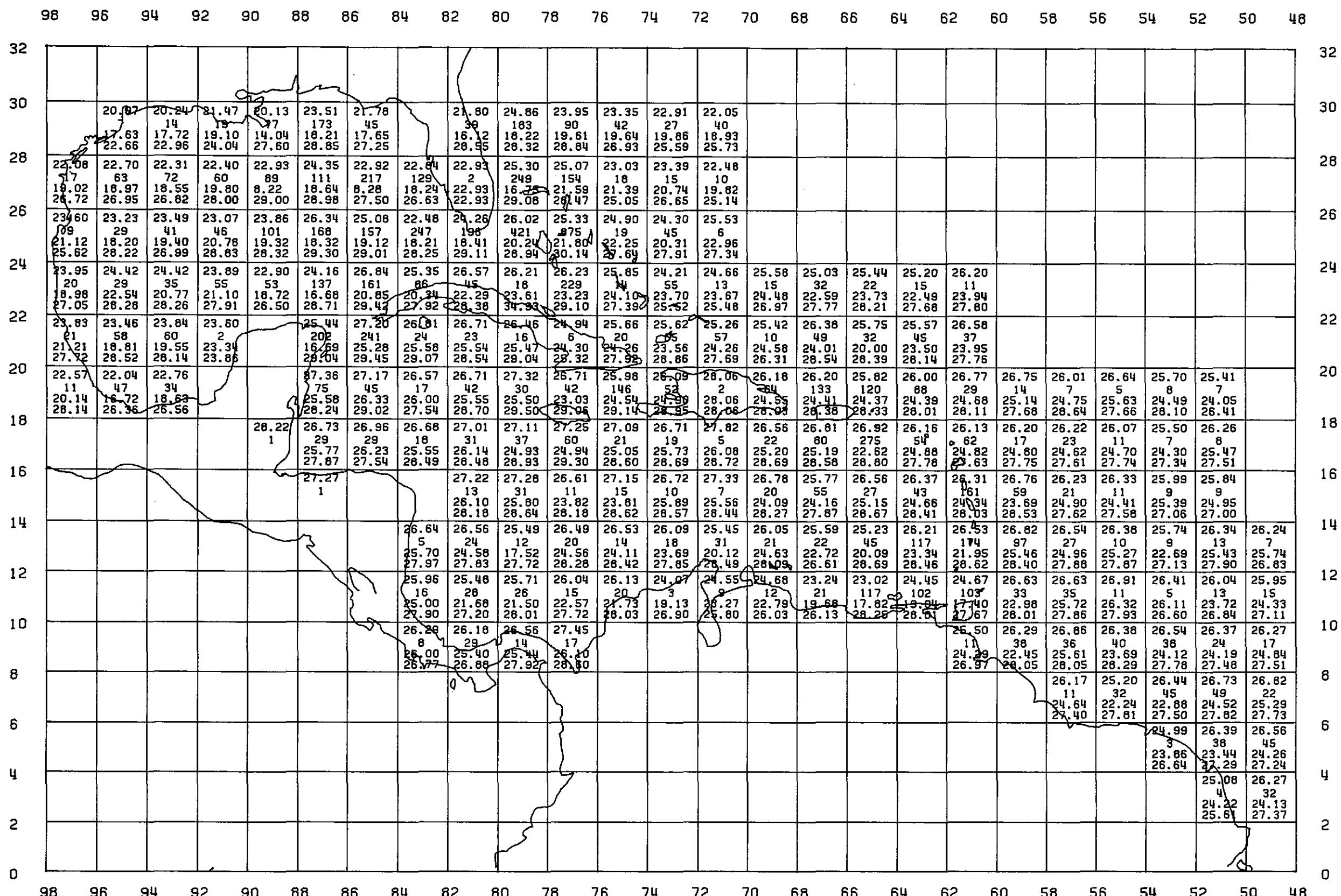
SIGMA-T
0 METER DEPTH

MONTHS 1 TO 12
11759 STATIONS WERE PLOTTED



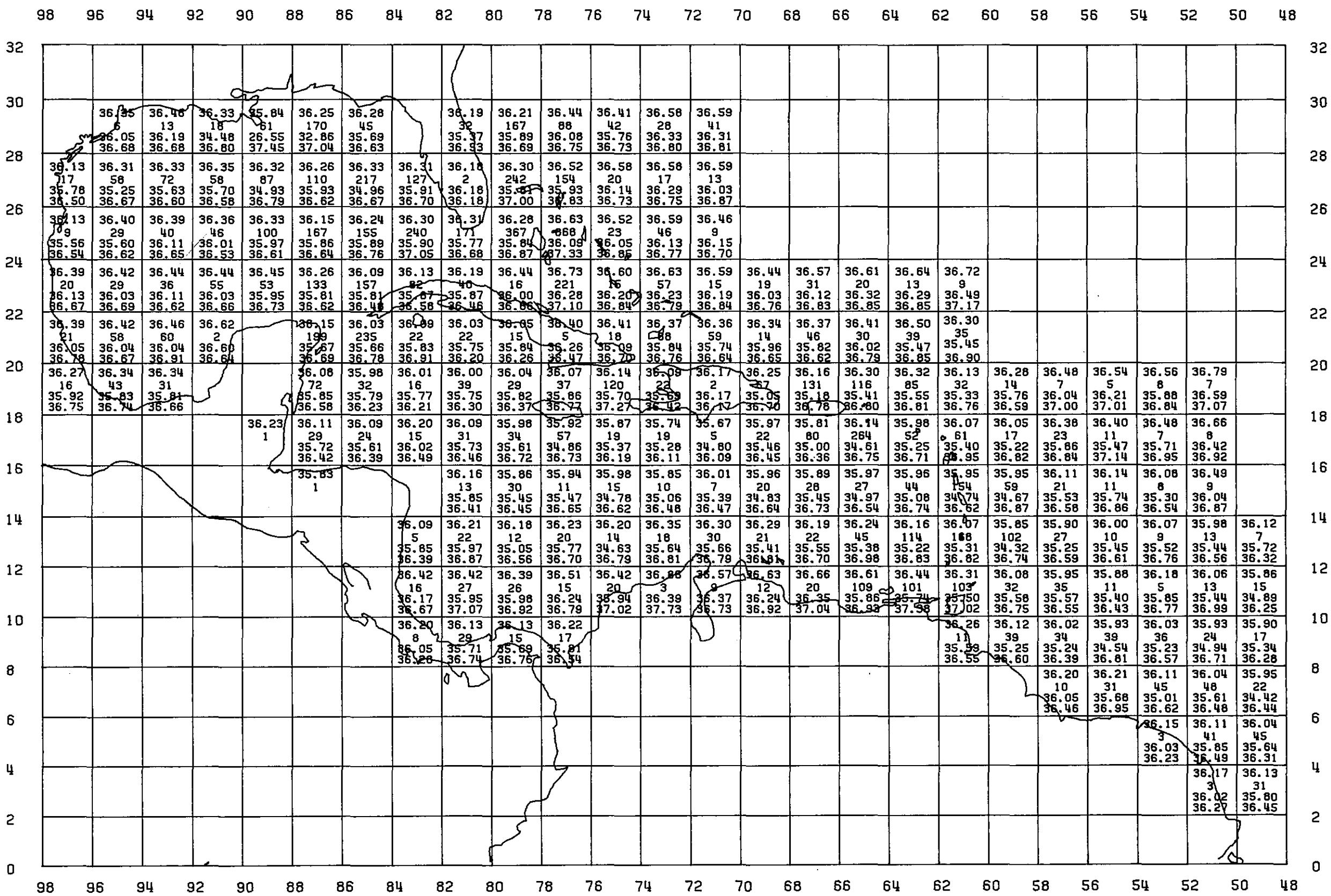
TEMPERATURE
50 METER DEPTH

MONTHS 1 TO 12
10468 STATIONS WERE PLOTTED



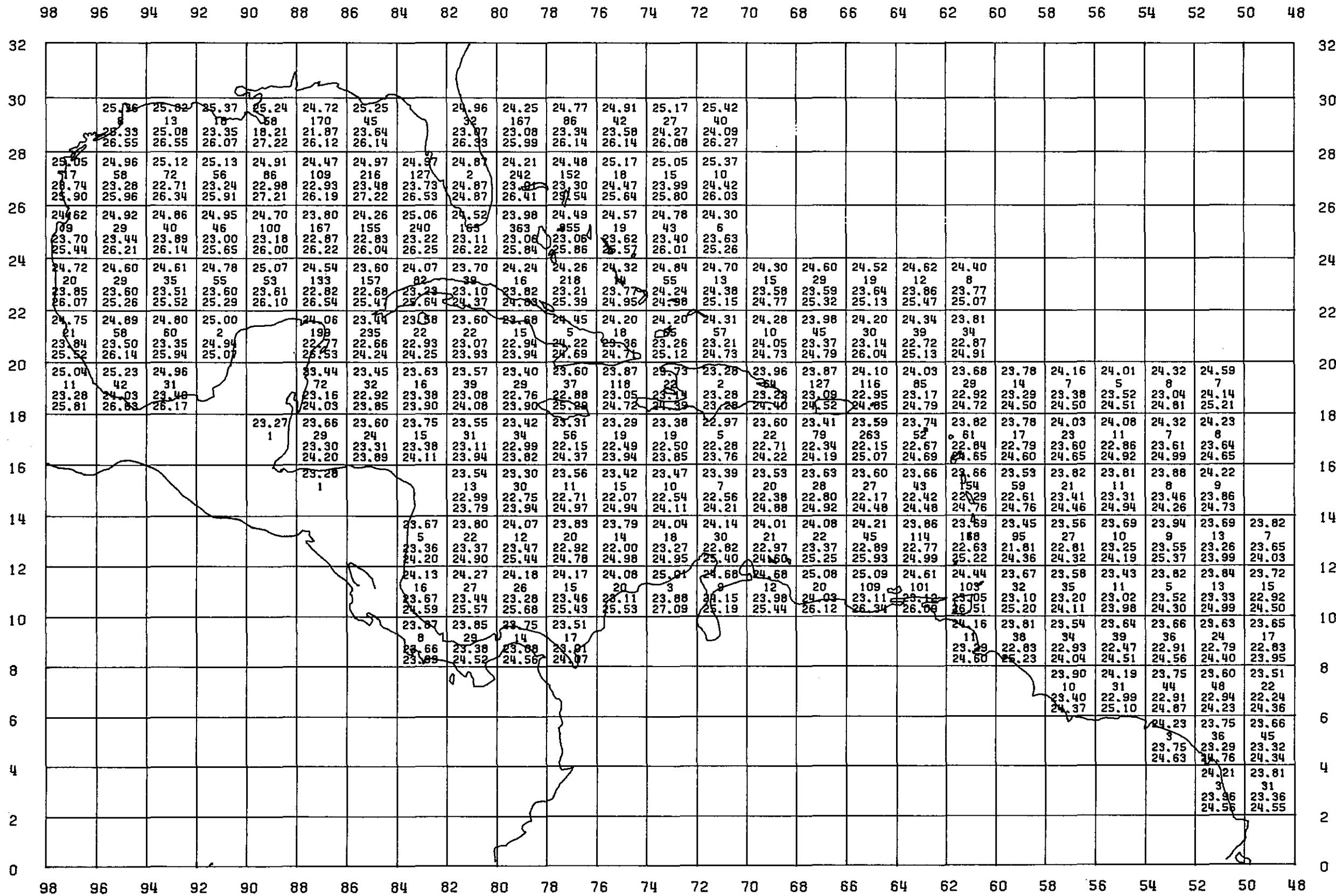
SALINITY
50 METER DEPTH

MONTHS 1 TO 12
10101 STATIONS WERE PLOTTED



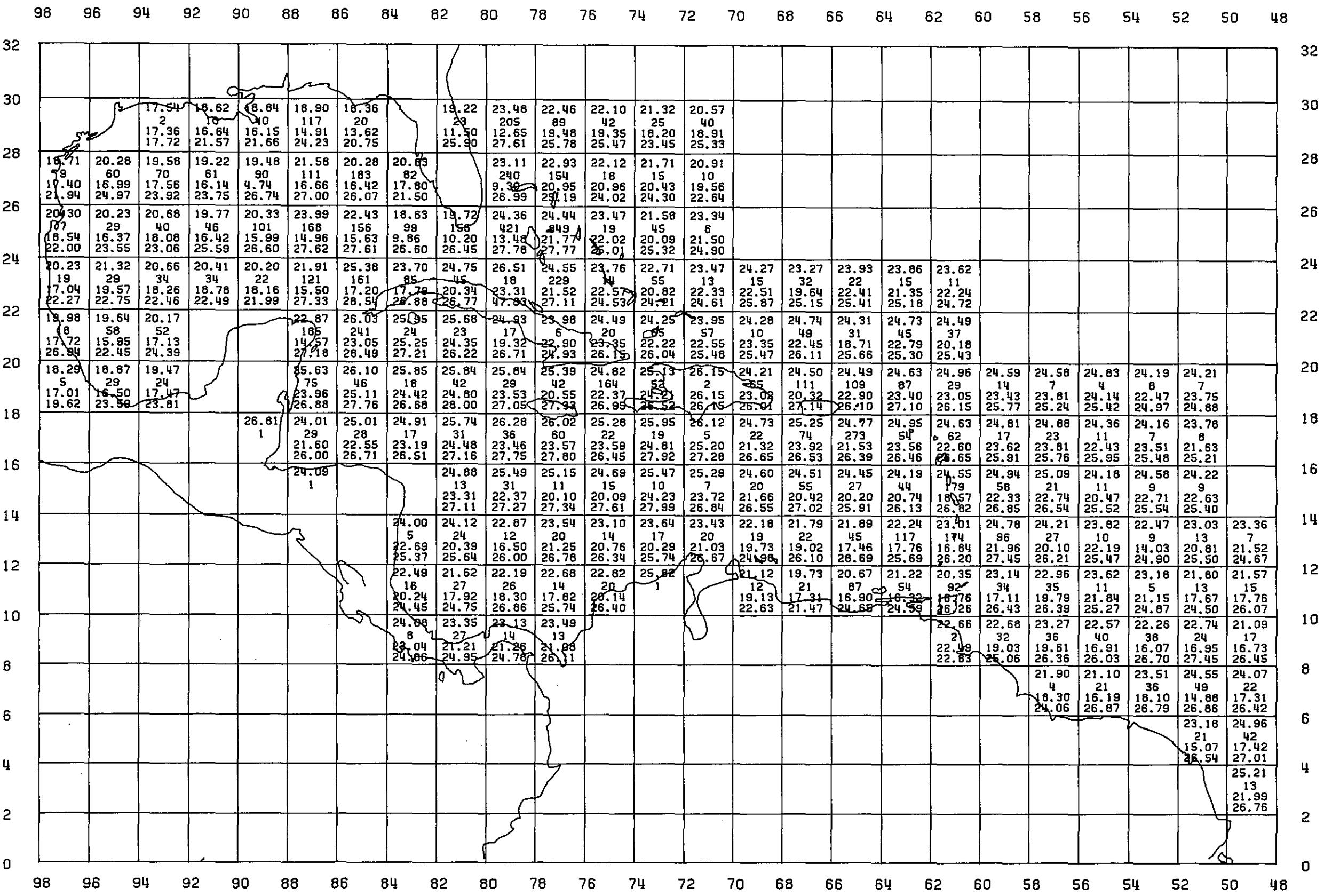
SIGMA-T
50 METER DEPTH

MONTHS 1 TO 12
9978 STATIONS WERE PLOTTED



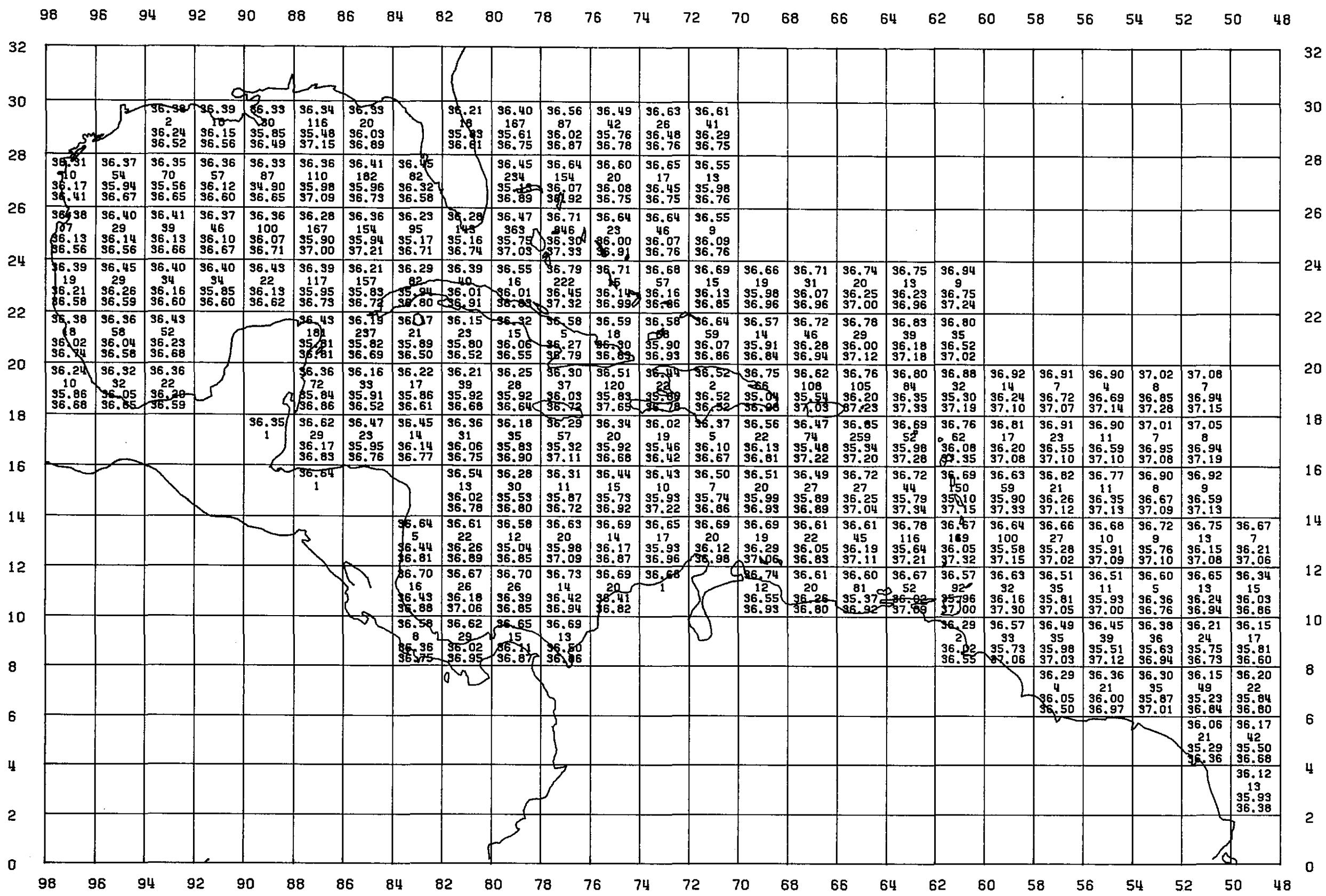
TEMPERATURE
100 METER DEPTH

MONTHS 1 TO 12
9652 STATIONS WERE PLOTTED



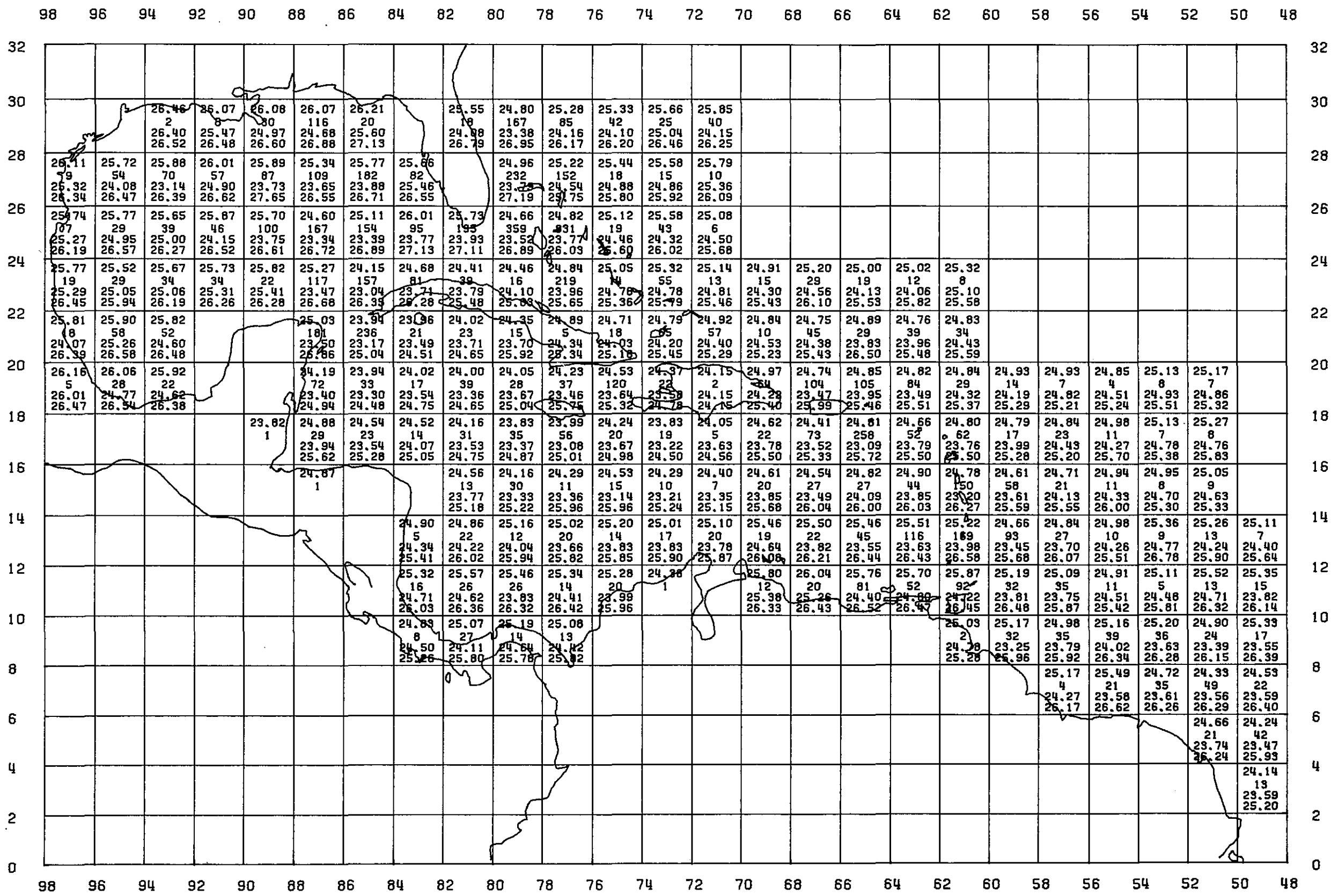
SALINITY
100 METER DEPTH

MONTHS 1 TO 12
9262 STATIONS WERE PLOTTED



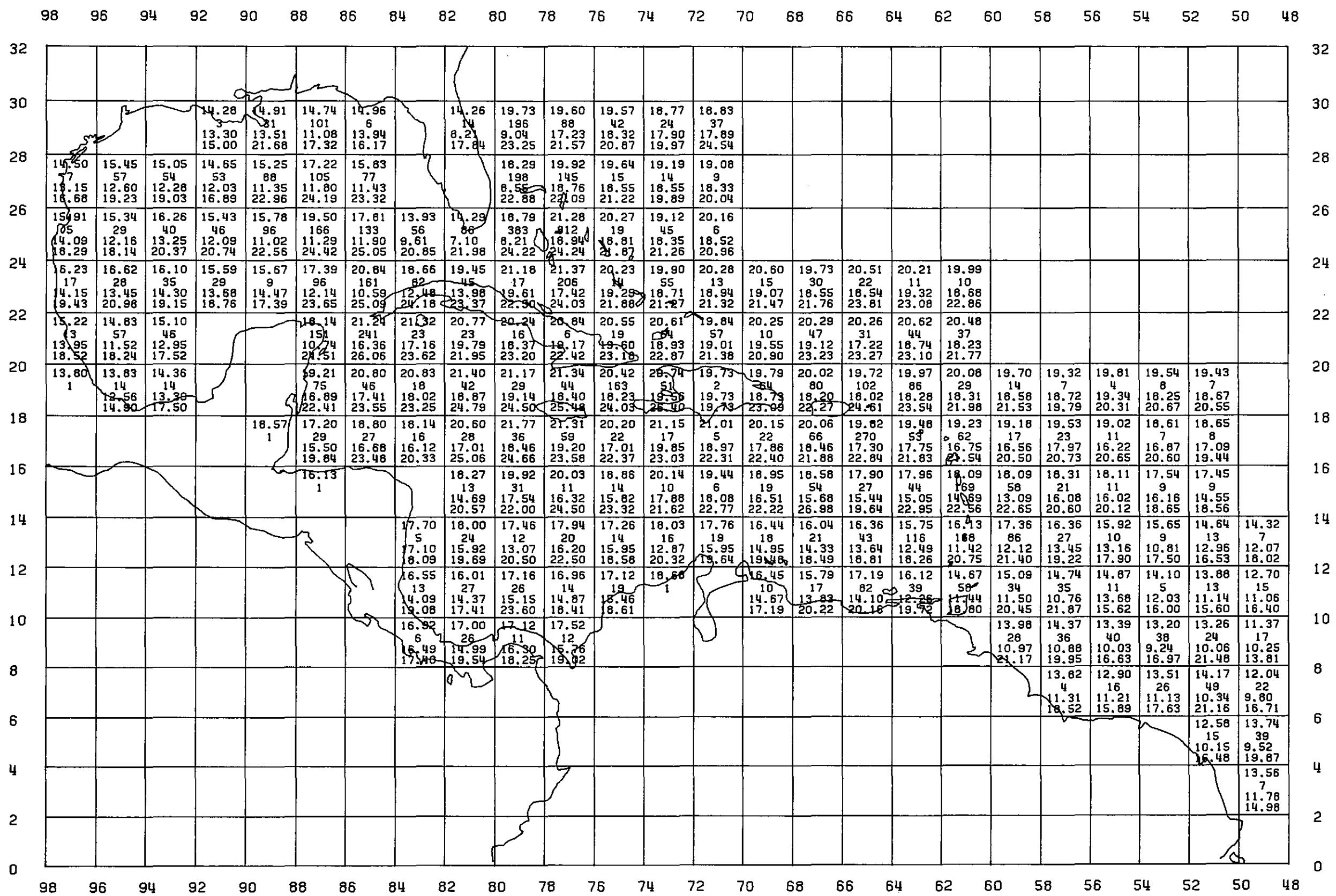
SIGMA-T
100 METER DEPTH

MONTHS 1 TO 12
9142 STATIONS WERE PLOTTED



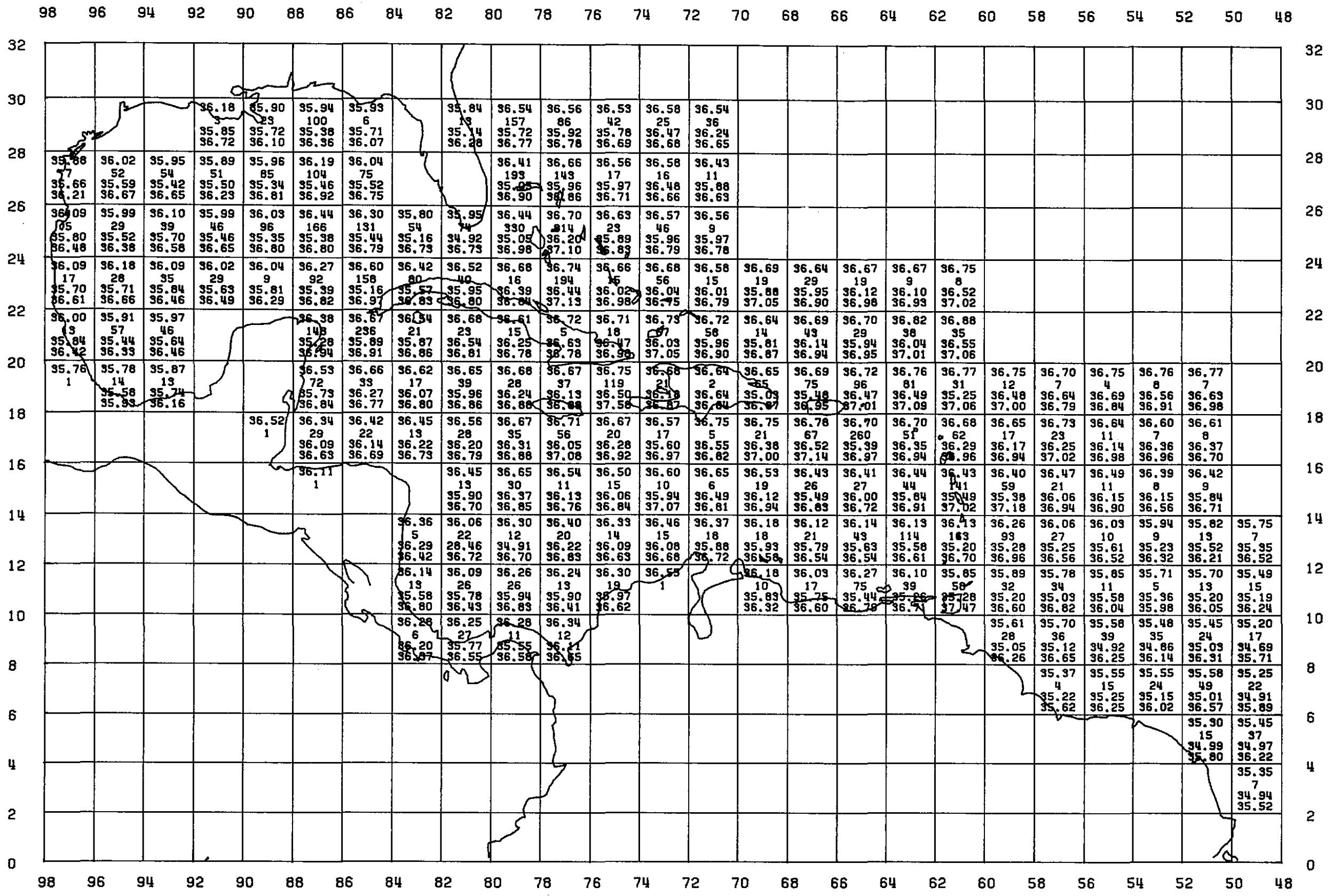
TEMPERATURE
200 METER DEPTH

MONTHS 1 TO 12
8715 STATIONS WERE PLOTTED



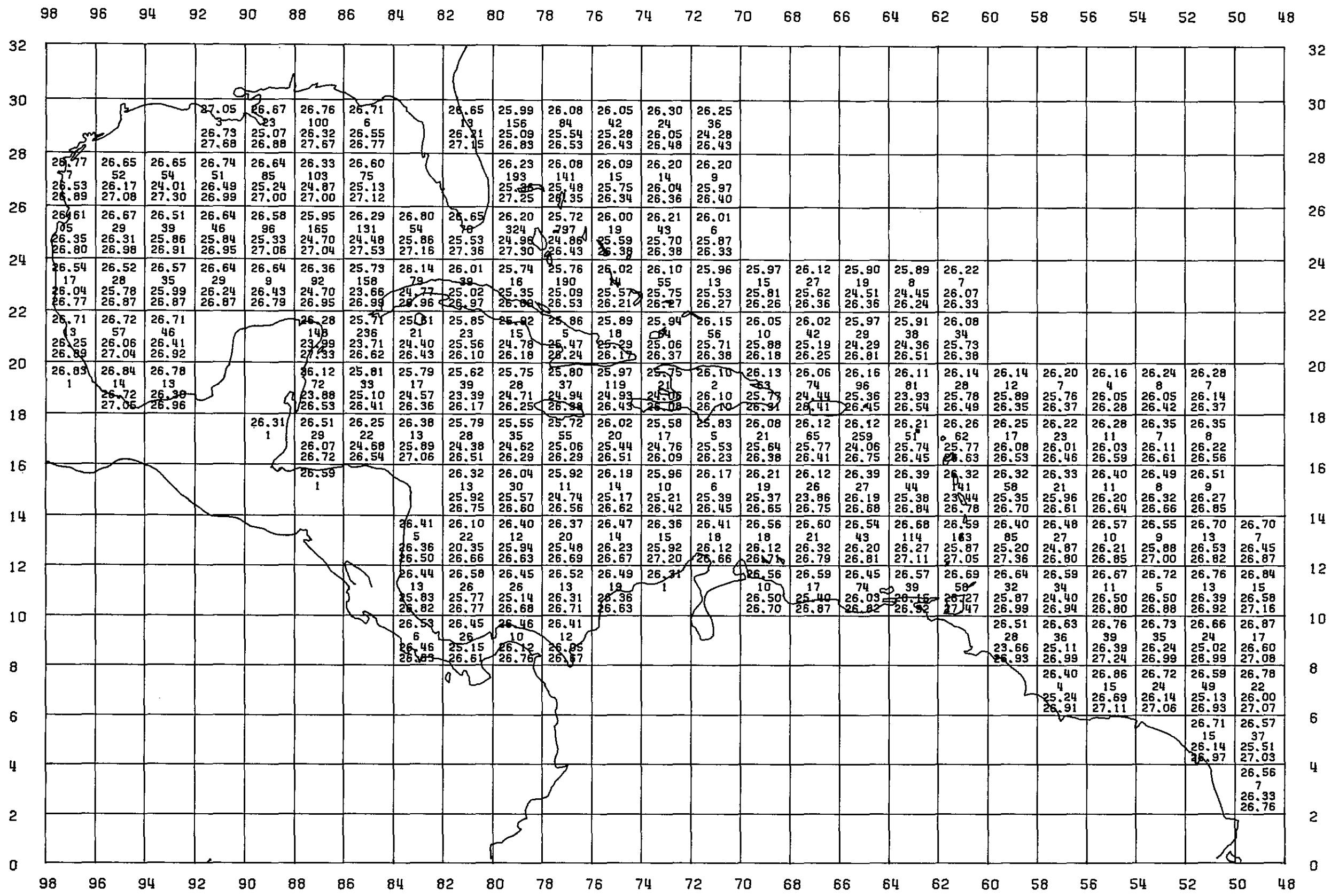
SALINITY
200 METER DEPTH

MONTHS 1 TO 12
8320 STATIONS WERE PLOTTED



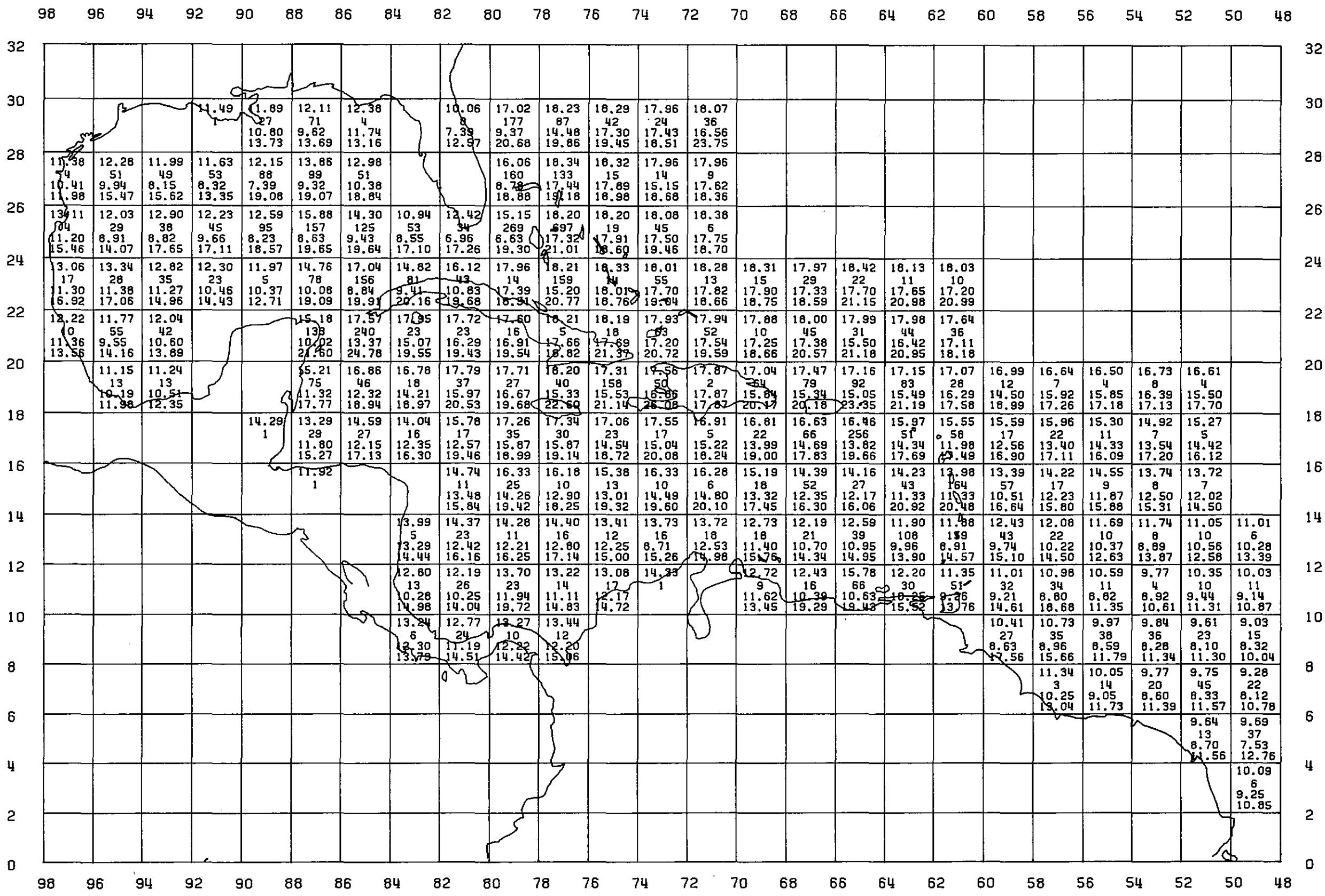
SIGMA-T
200 METER DEPTH

MONTHS 1 TO 12
8217 STATIONS WERE PLOTTED



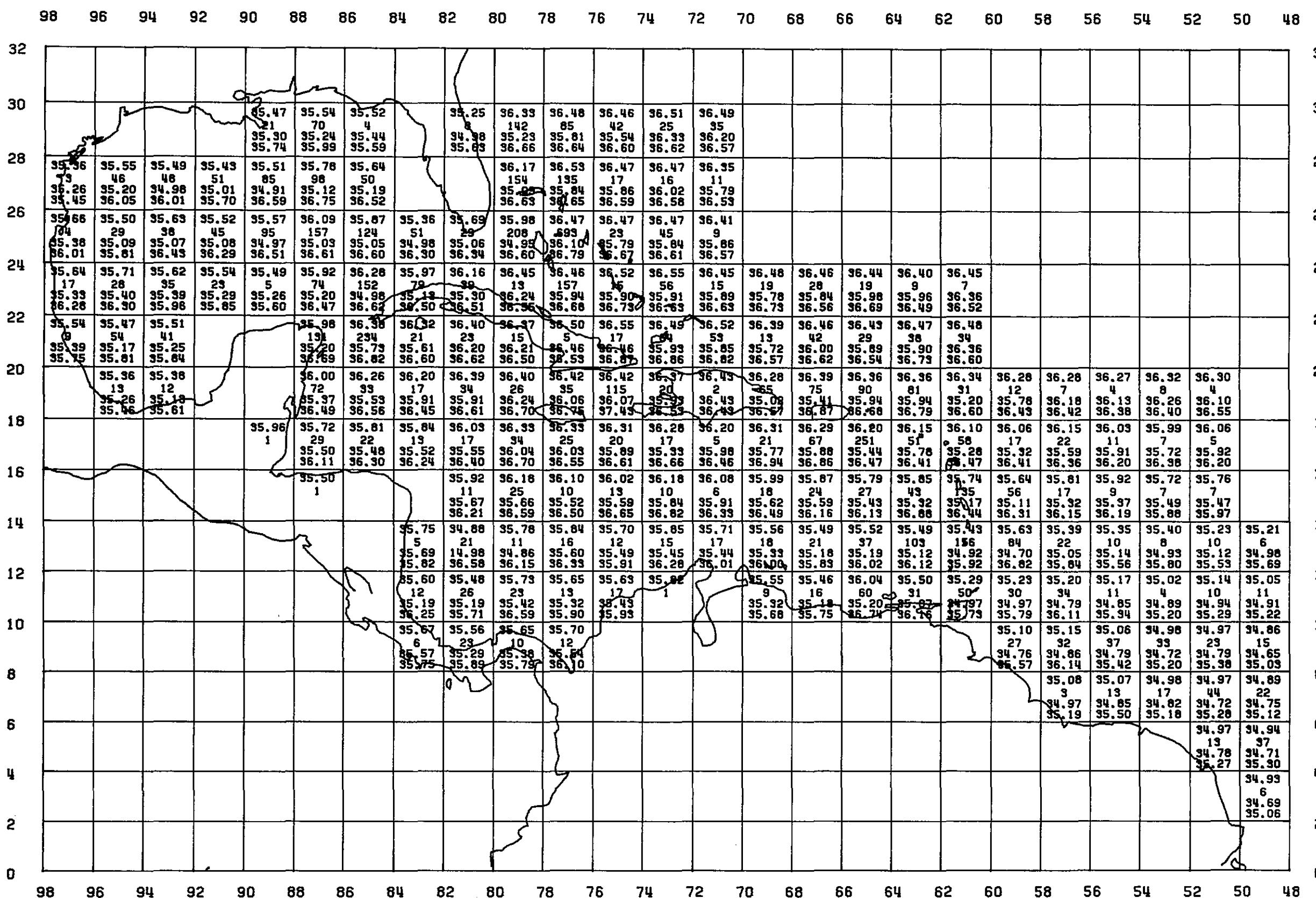
TEMPERATURE
300 METER DEPTH

MONTHS 1 TO 12
7825 STATIONS WERE PLOTTED



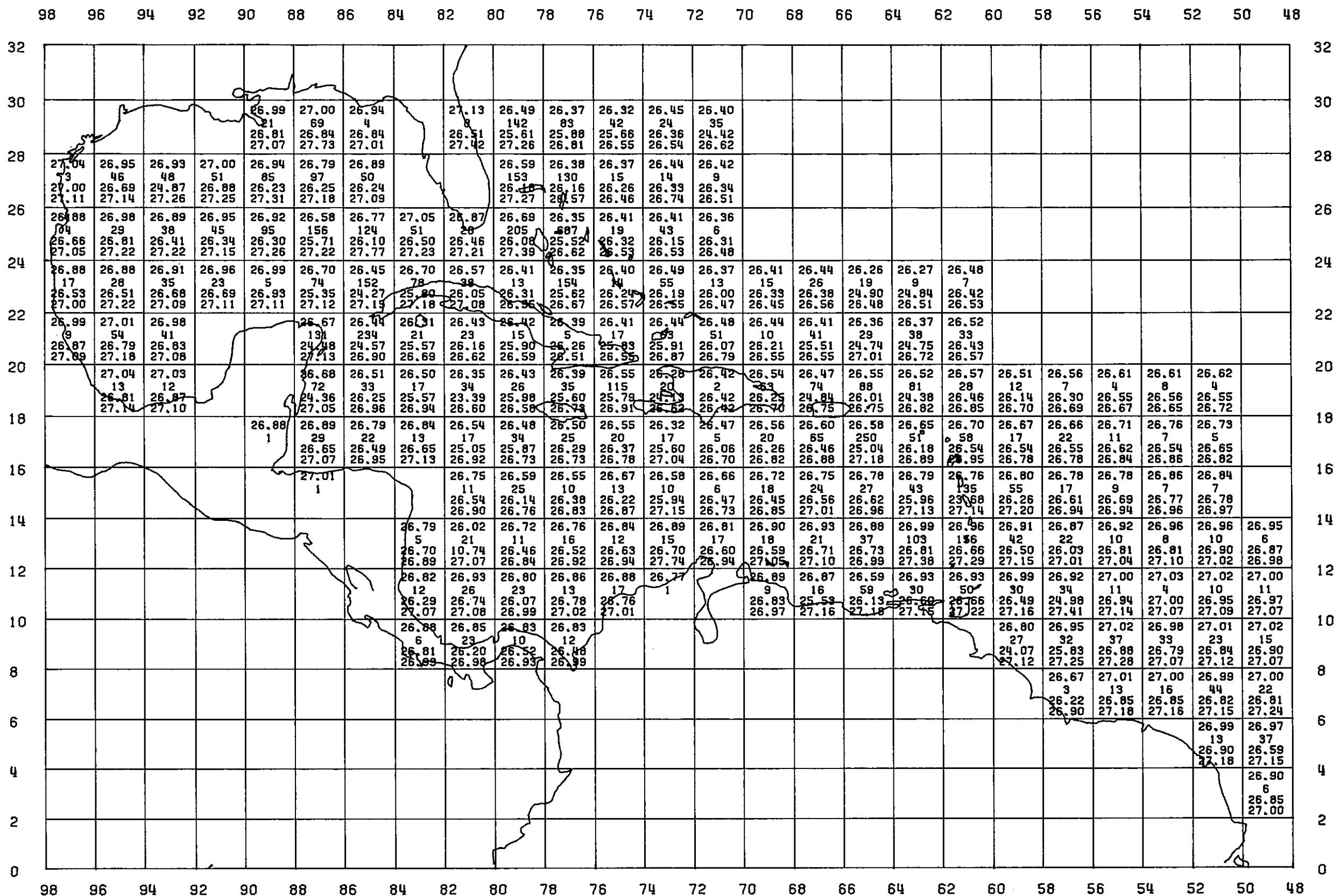
SALINITY
300 METER DEPTH

MONTHS 1 TO 12
7480 STATIONS WERE PLOTTED



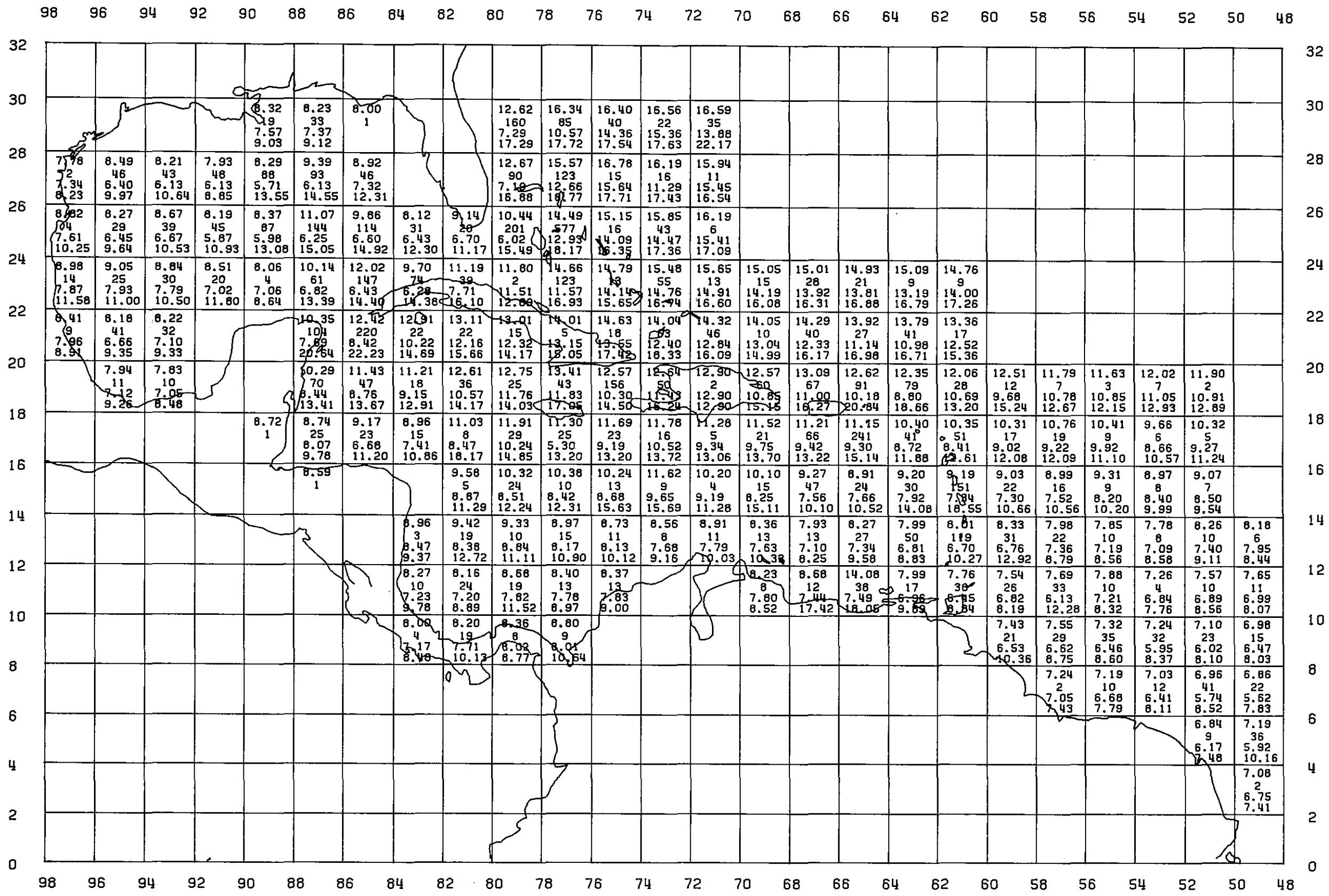
SIGMA-T
300 METER DEPTH

MONTHS 1 TO 12
7362 STATIONS WERE PLOTTED



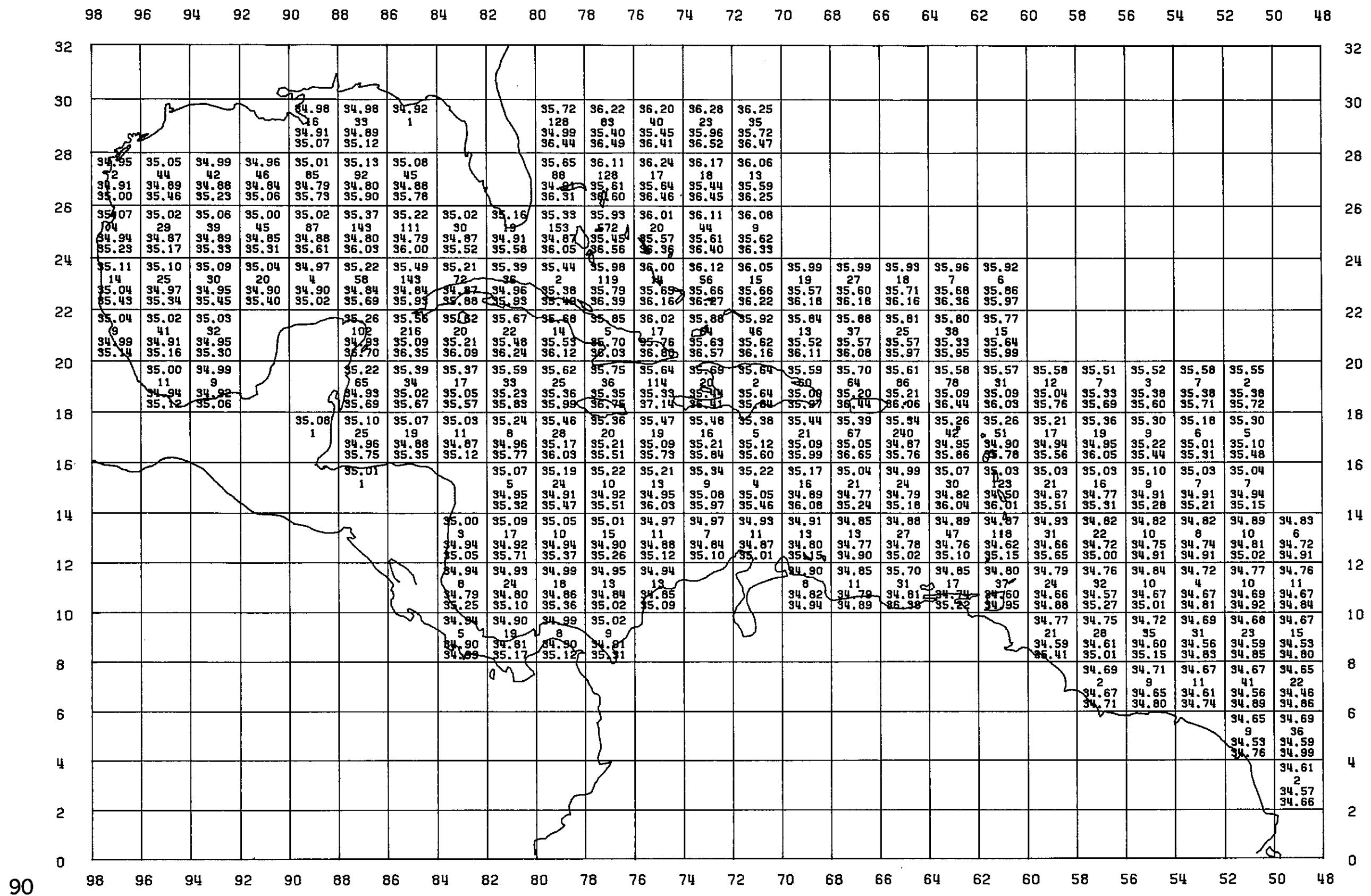
TEMPERATURE
500 METER DEPTH

MONTHS 1 TO 12
6672 STATIONS WERE PLOTTED



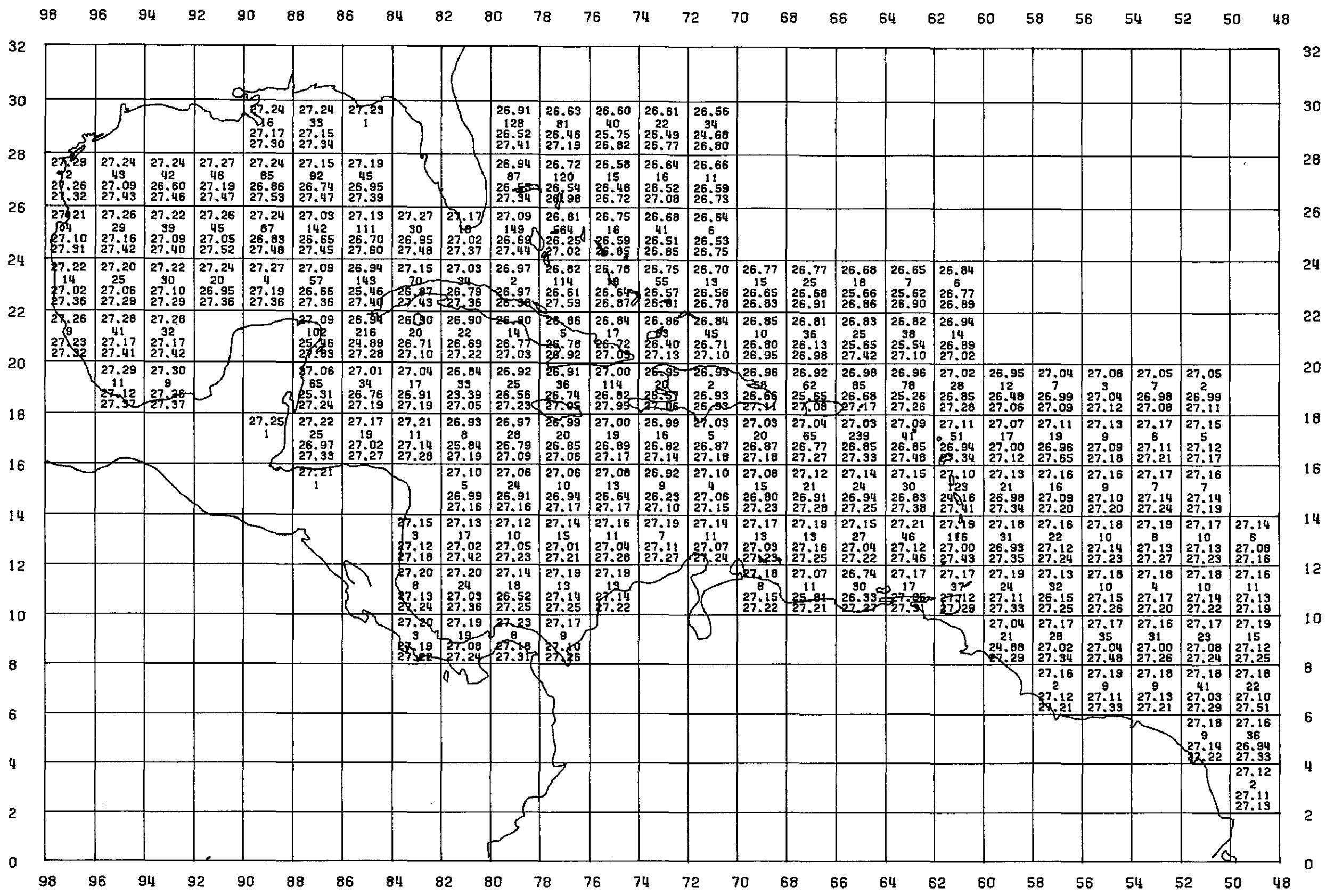
SALINITY
500 METER DEPTH

MONTHS 1 TO 12
6346 STATIONS WERE PLOTTED



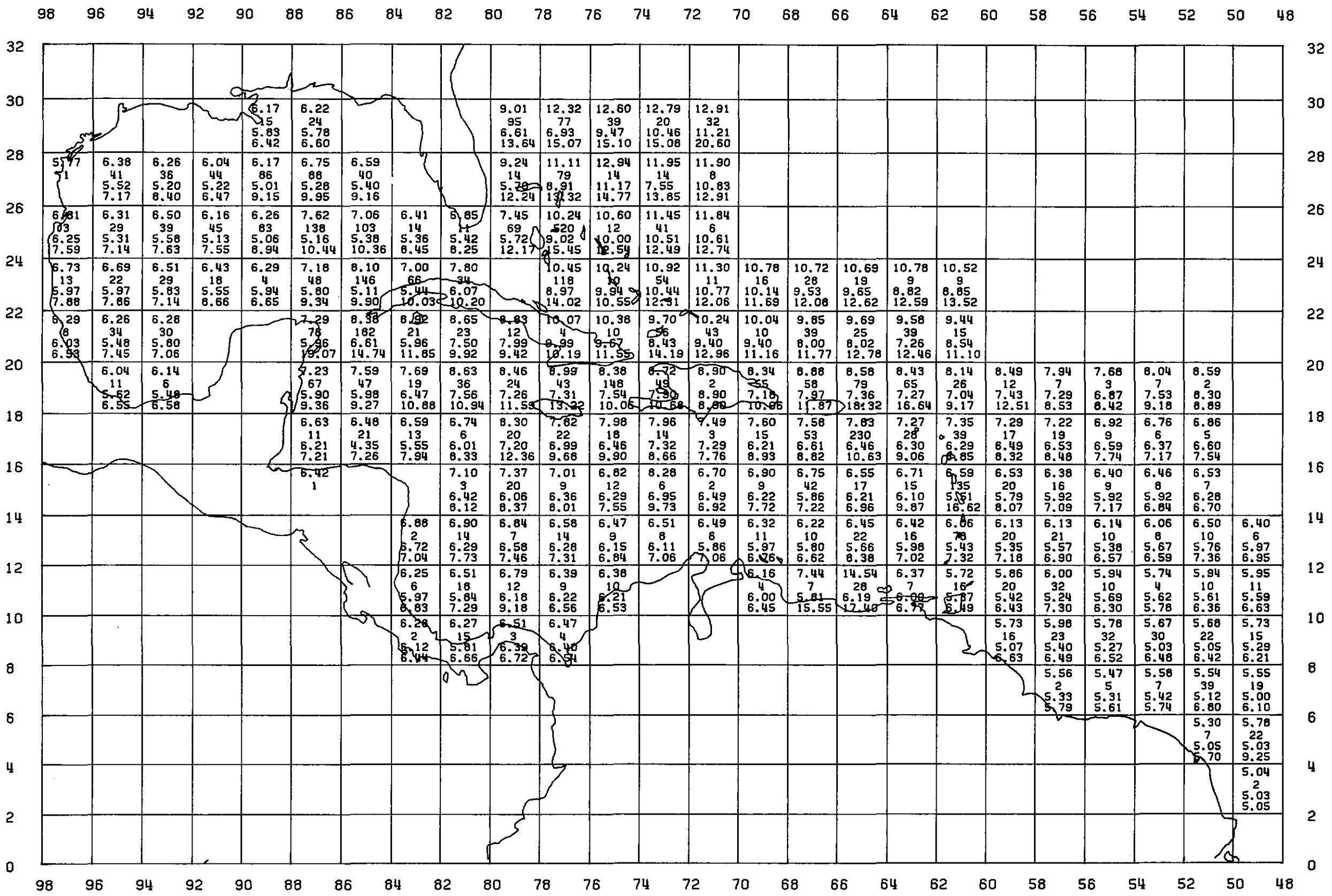
SIGMA-T
500 METER DEPTH

MONTHS 1 TO 12
6253 STATIONS WERE PLOTTED



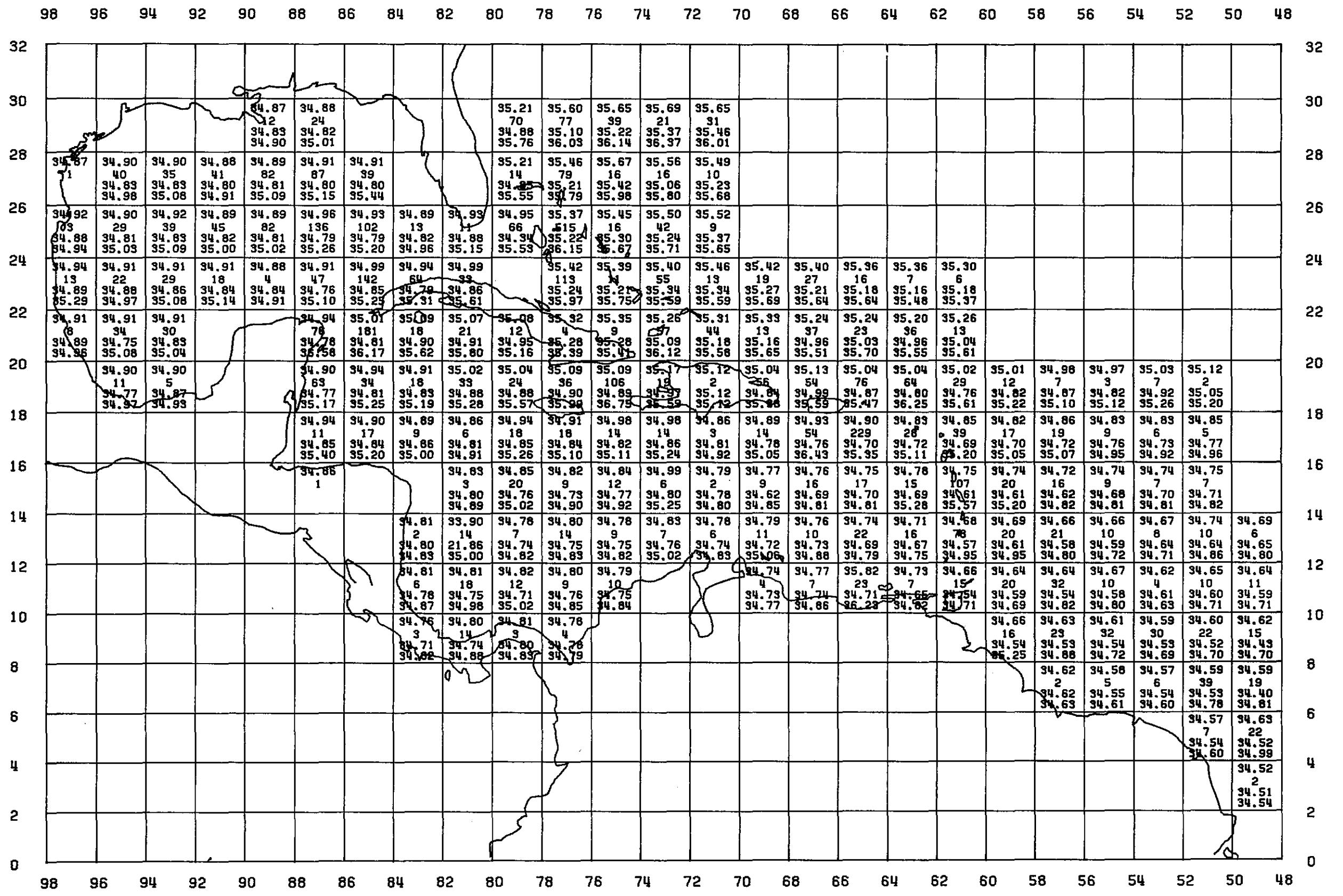
TEMPERATURE
700 METER DEPTH

MONTHS 1 TO 12
5548 STATIONS WERE PLOTTED



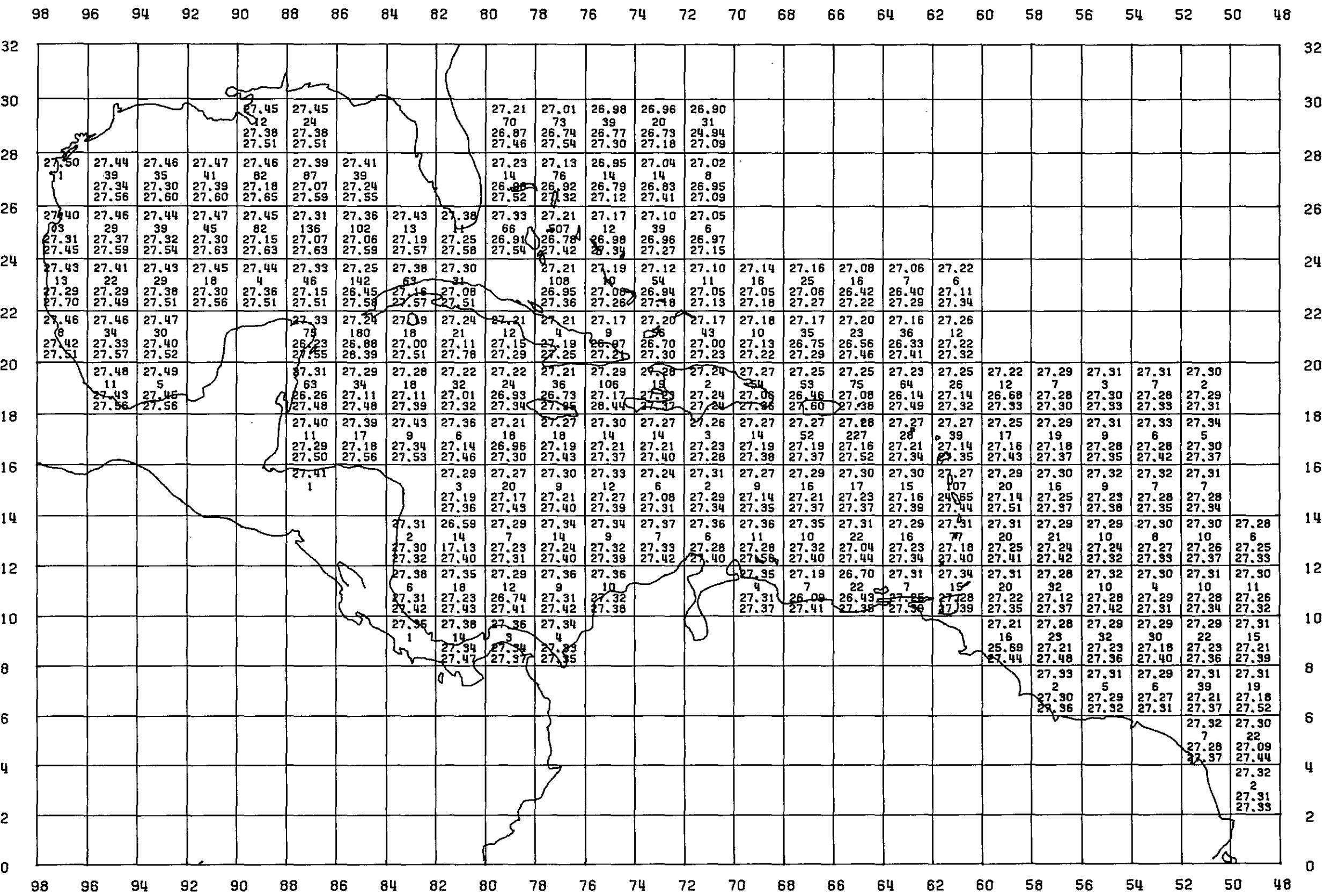
SALINITY
700 METER DEPTH

MONTHS 1 TO 12
5297 STATIONS WERE PLOTTED



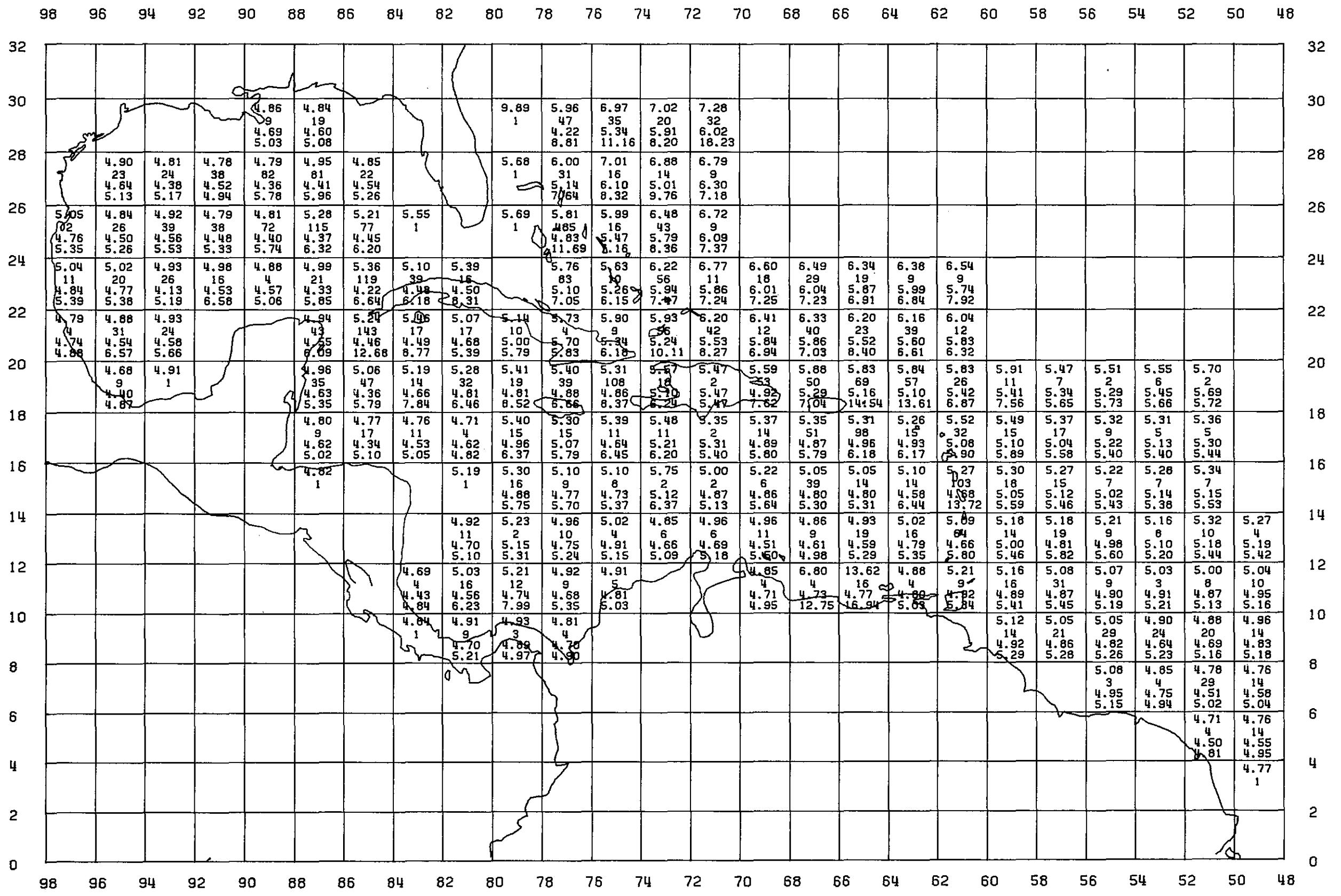
SIGMA-T
700 METER DEPTH

MONTHS 1 TO 12
5220 STATIONS WERE PLOTTED



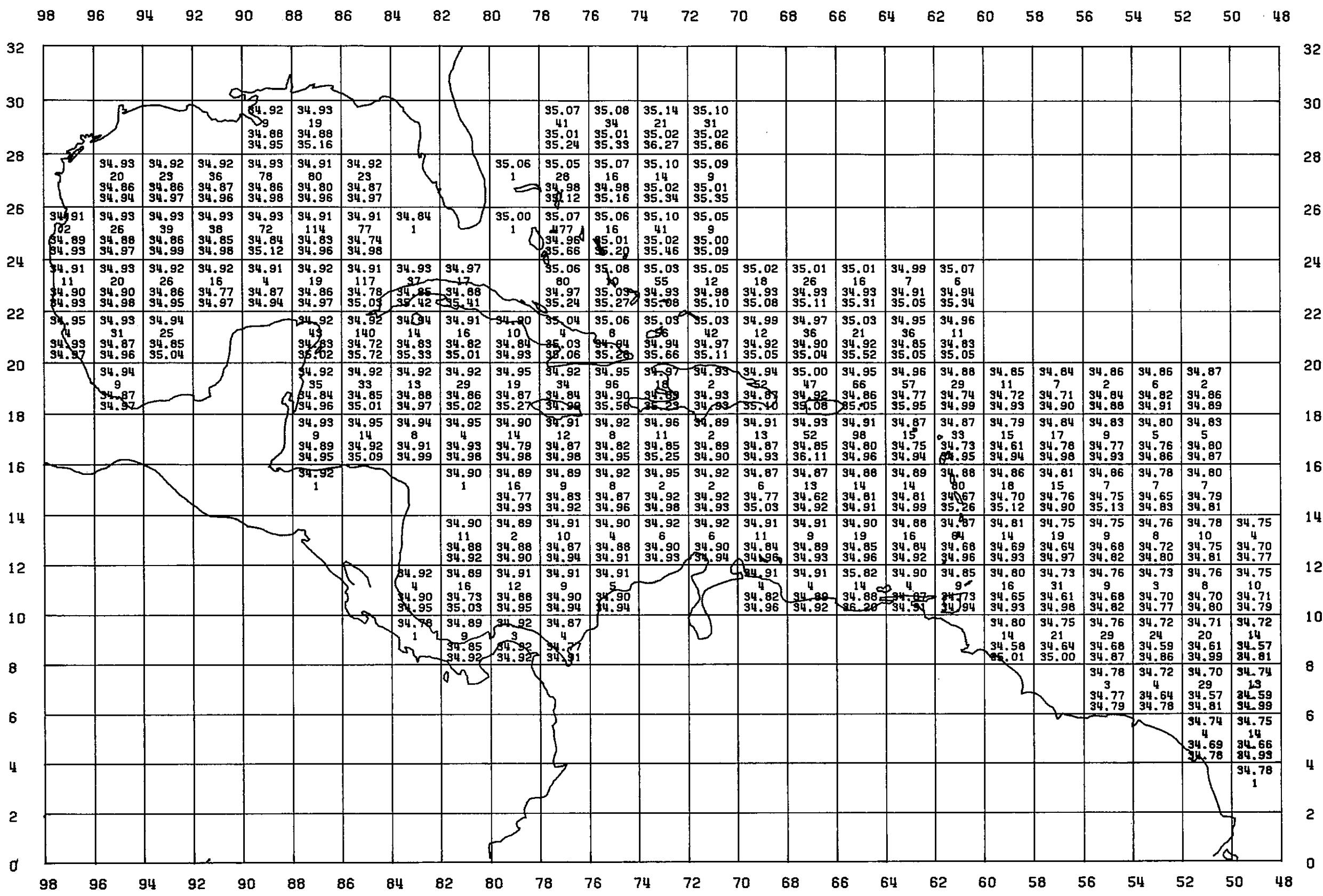
TEMPERATURE
1000 METER DEPTH

MONTHS 1 TO 12
4292 STATIONS WERE PLOTTED



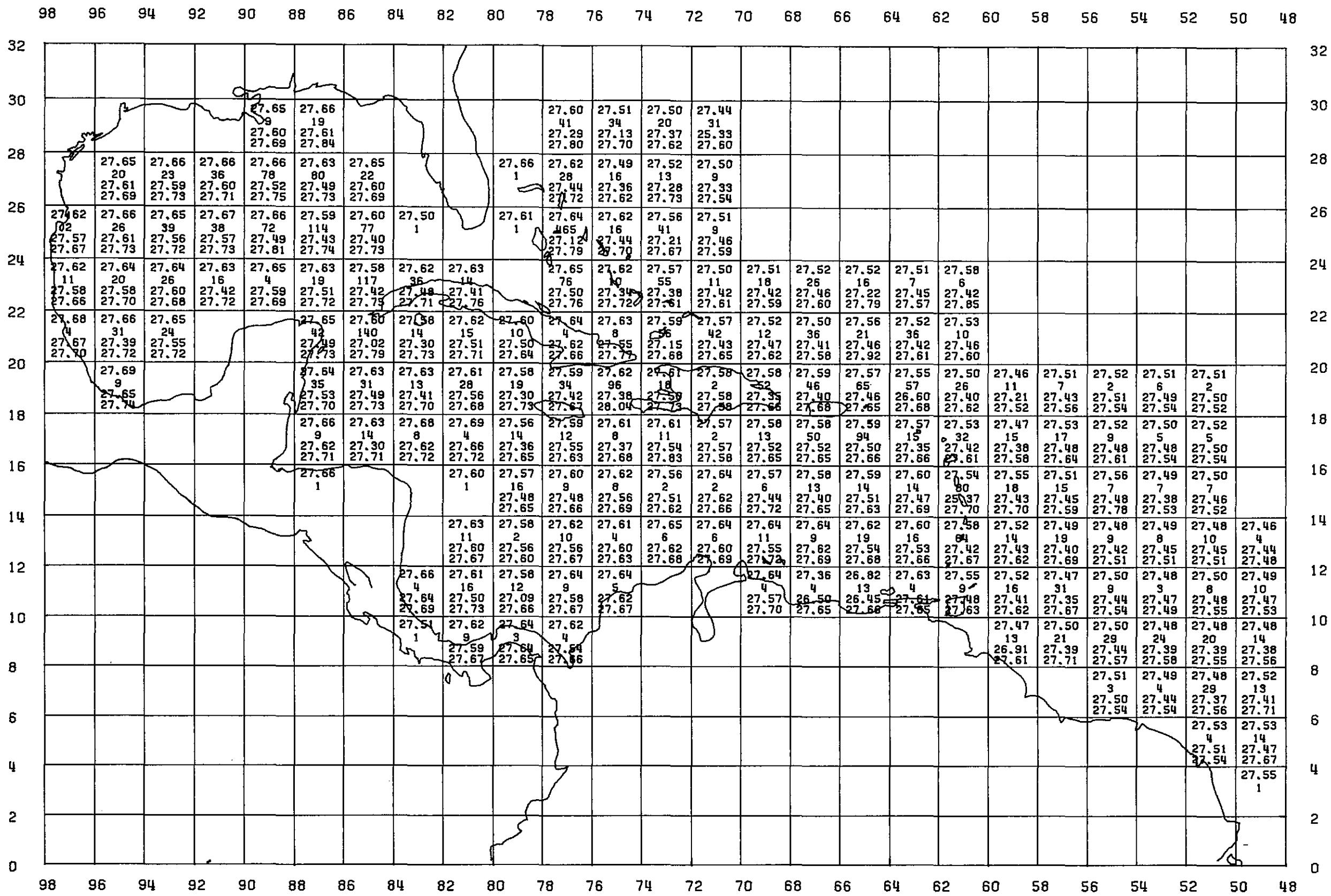
SALINITY
1000 METER DEPTH

MONTHS 1 TO 12
4120 STATIONS WERE PLOTTED



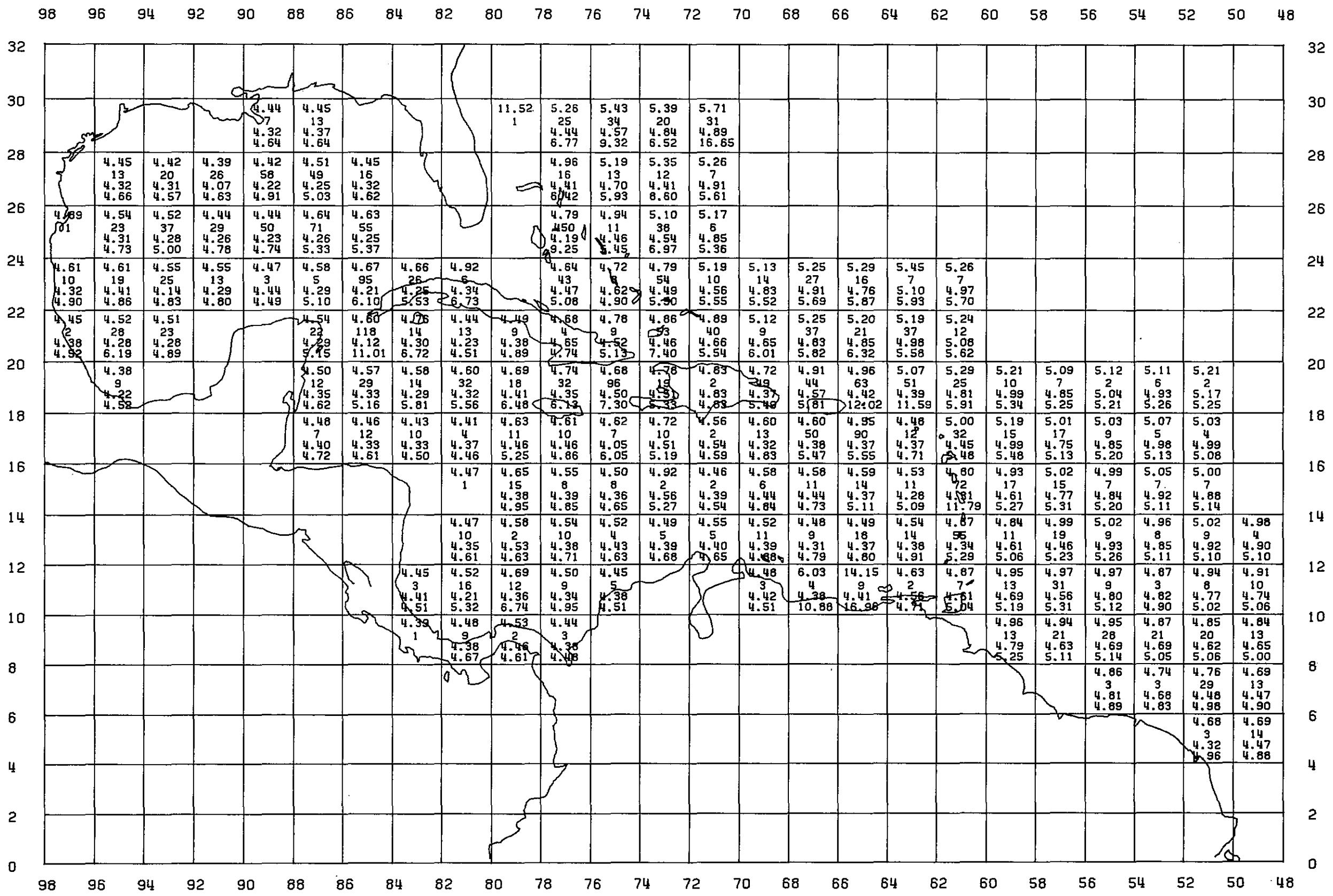
SIGMA-T
1000 METER DEPTH

MONTHS 1 TO 12
4075 STATIONS WERE PLOTTED



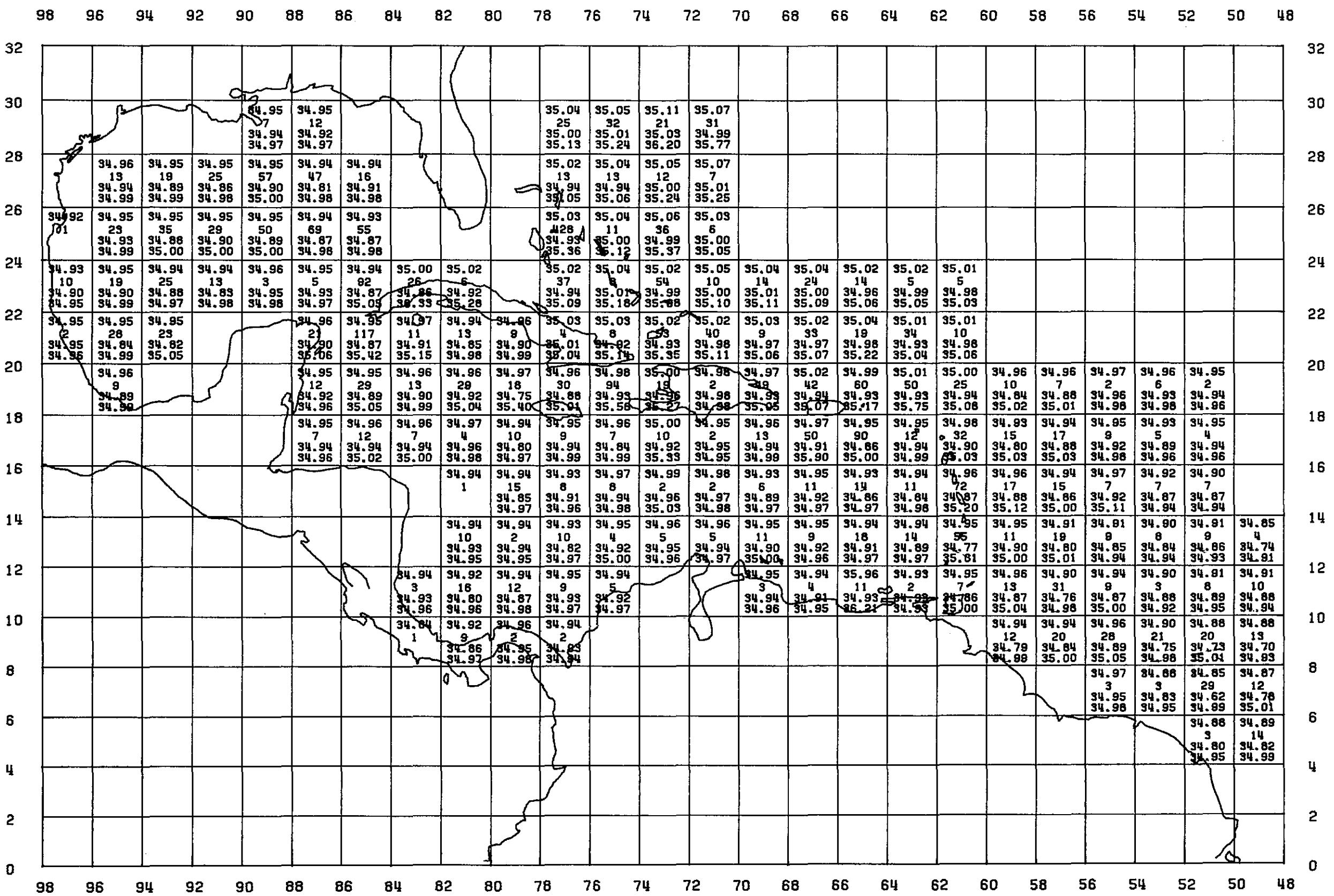
TEMPERATURE
1200 METER DEPTH

MONTHS 1 TO 12
3559 STATIONS WERE PLOTTED



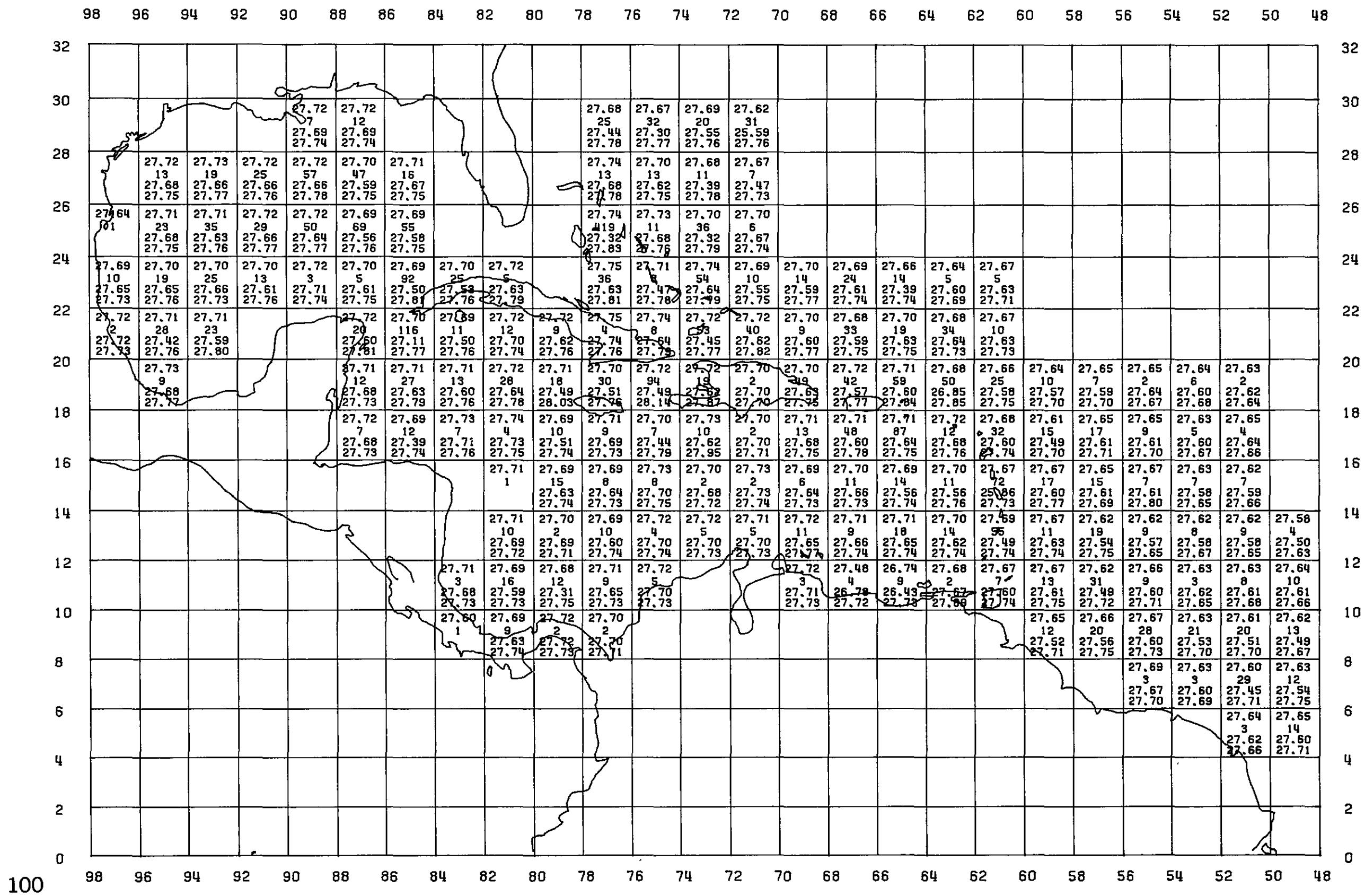
SALINITY
1200 METER DEPTH

MONTHS 1 TO 12
3464 STATIONS WERE PLOTTED



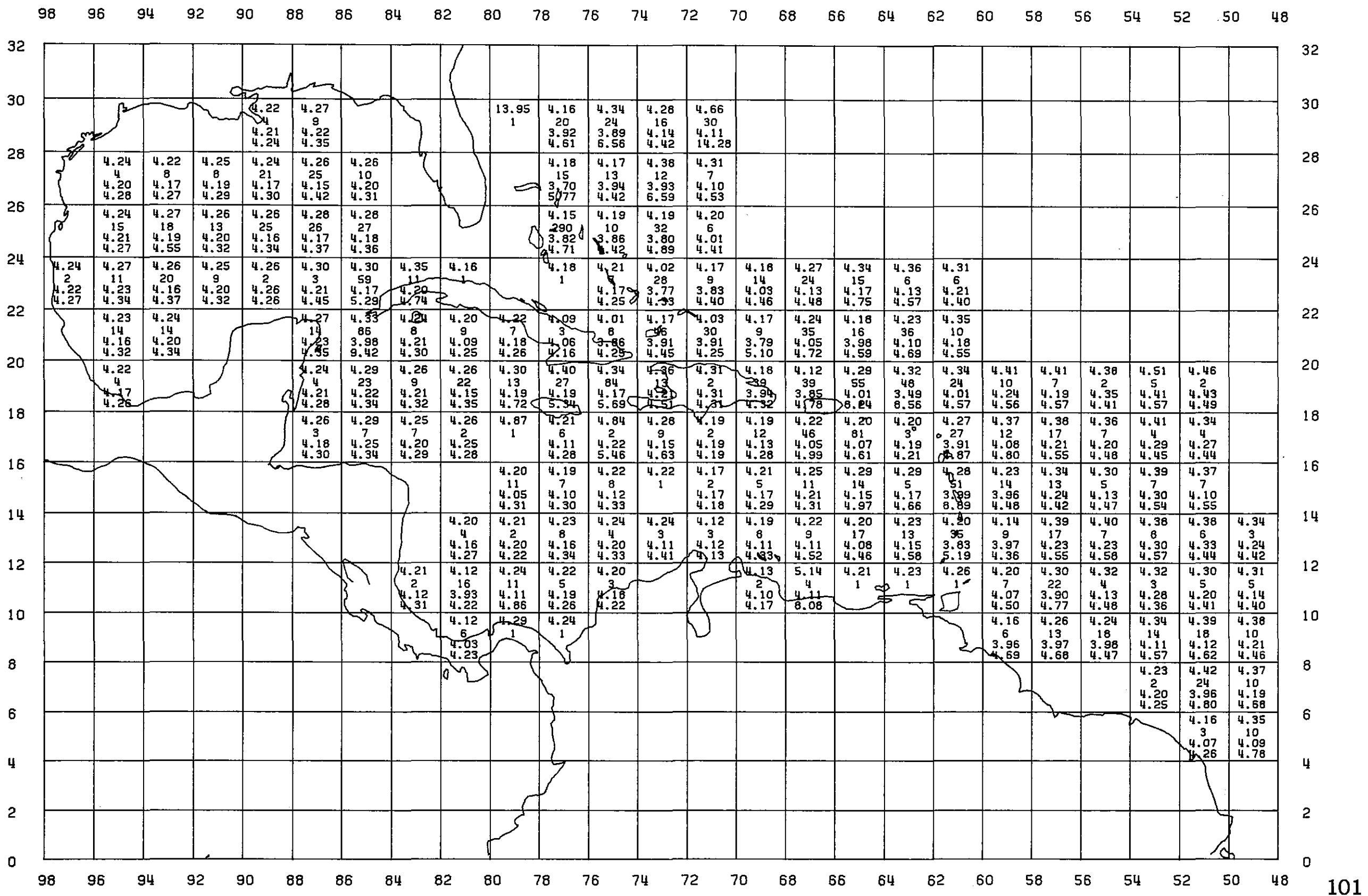
SIGMA-T
1200 METER DEPTH

MONTHS 1 TO 12
3436 STATIONS WERE PLOTTED



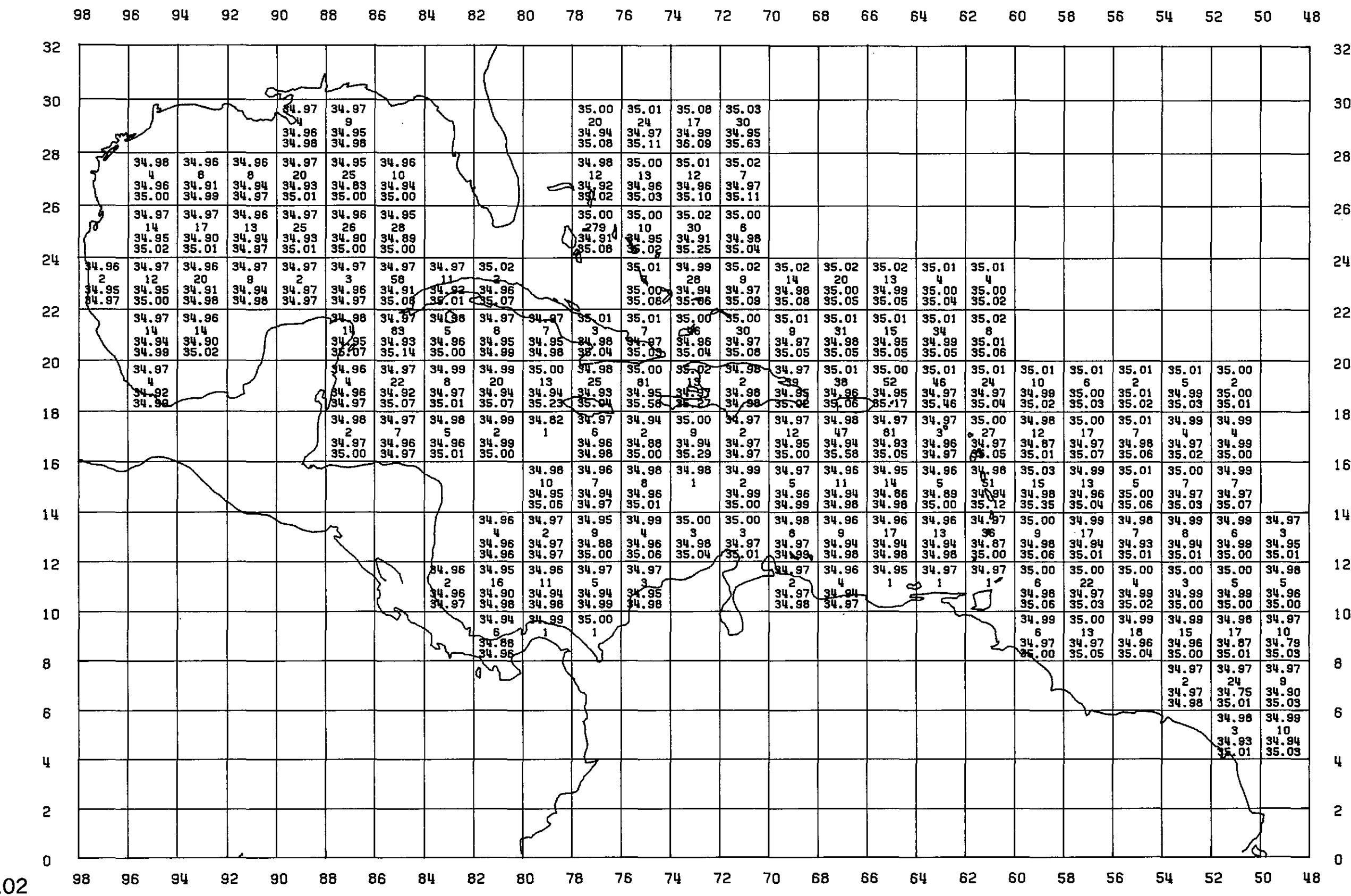
TEMPERATURE
1500 METER DEPTH

MONTHS 1 TO 12
2491 STATIONS WERE PLOTTED



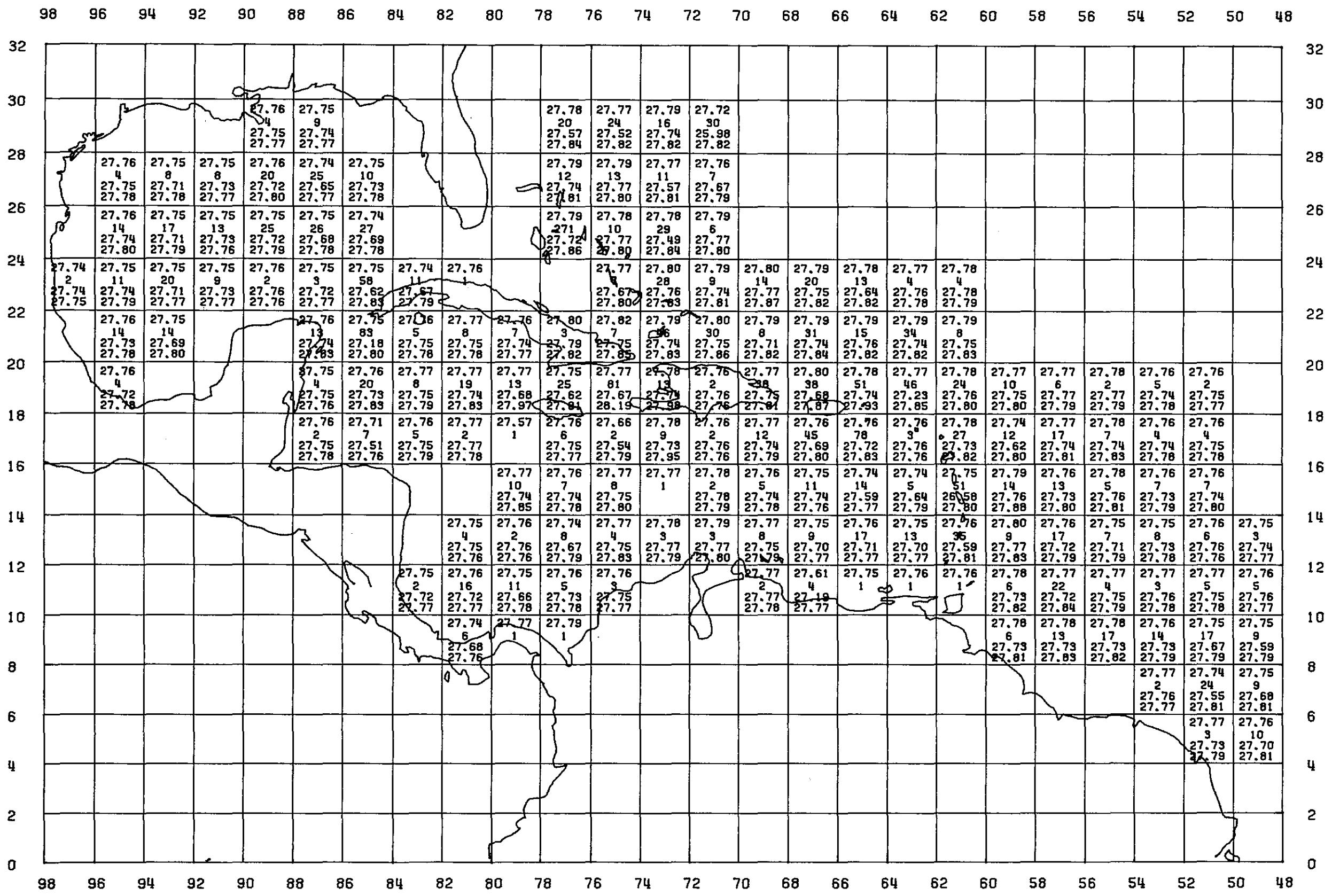
SALINITY
1500 METER DEPTH

MONTHS 1 TO 12
2428 STATIONS WERE PLOTTED



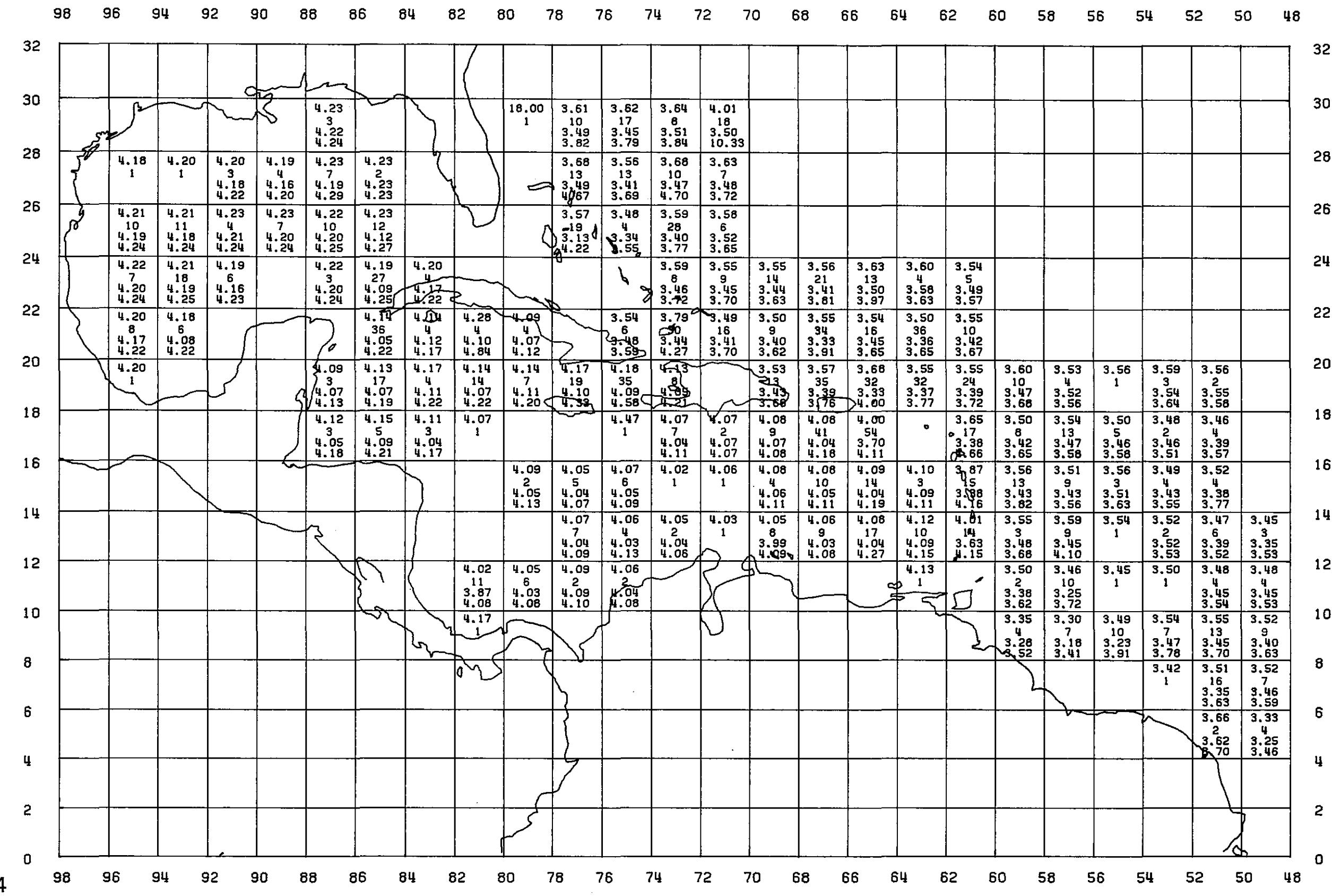
SIGMA-T
1500 METER DEPTH

MONTHS 1 TO 12
2396 STATIONS WERE PLOTTED



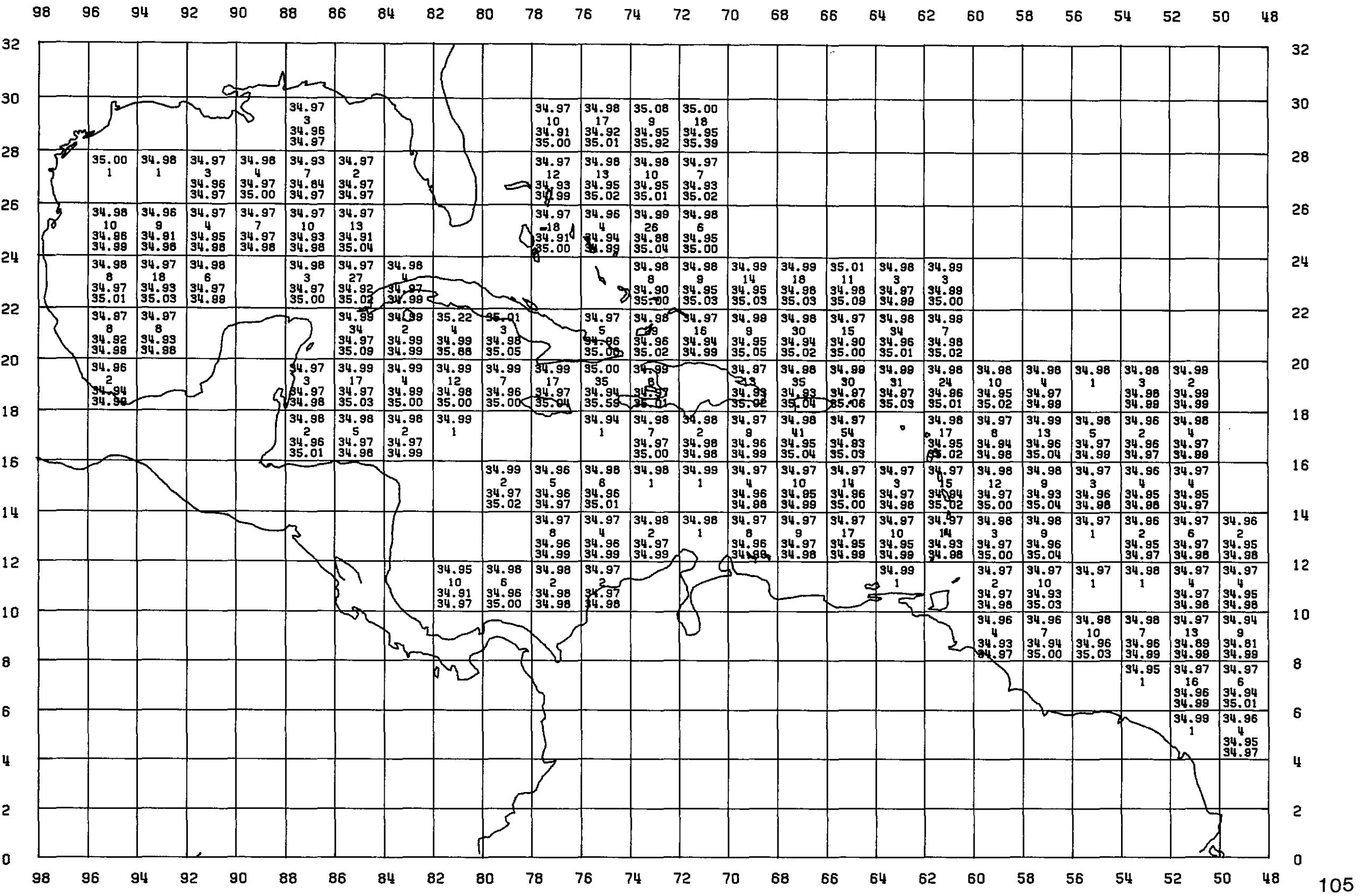
TEMPERATURE
2000 METER DEPTH

MONTHS 1 TO 12
1341 STATIONS WERE PLOTTED



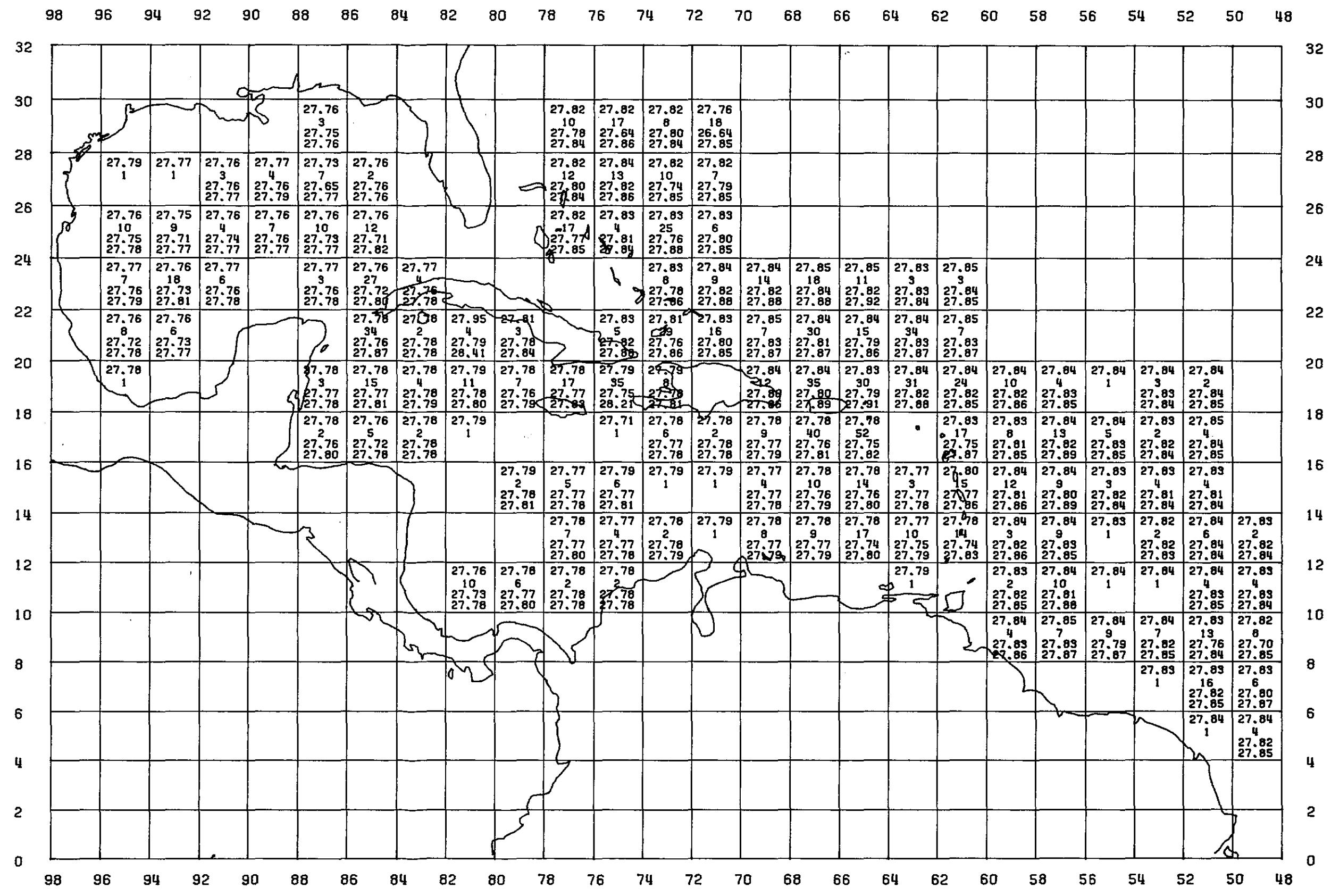
SALINITY
2000 METER DEPTH

MONTHS 1 TO 12
1301 STATIONS WERE PLOTTED



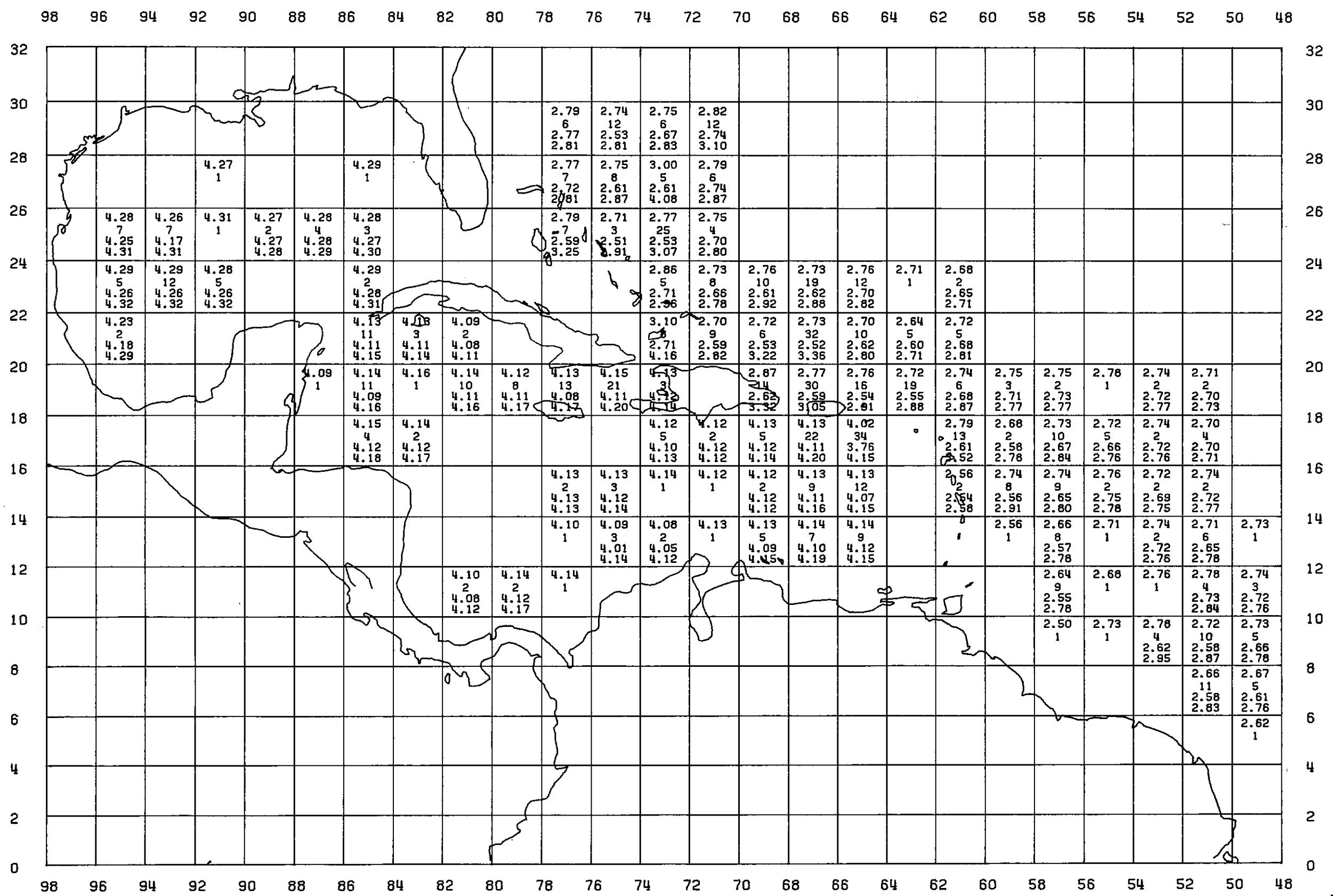
SIGMA-T
2000 METER DEPTH

MONTHS 1 TO 12
1280 STATIONS WERE PLOTTED



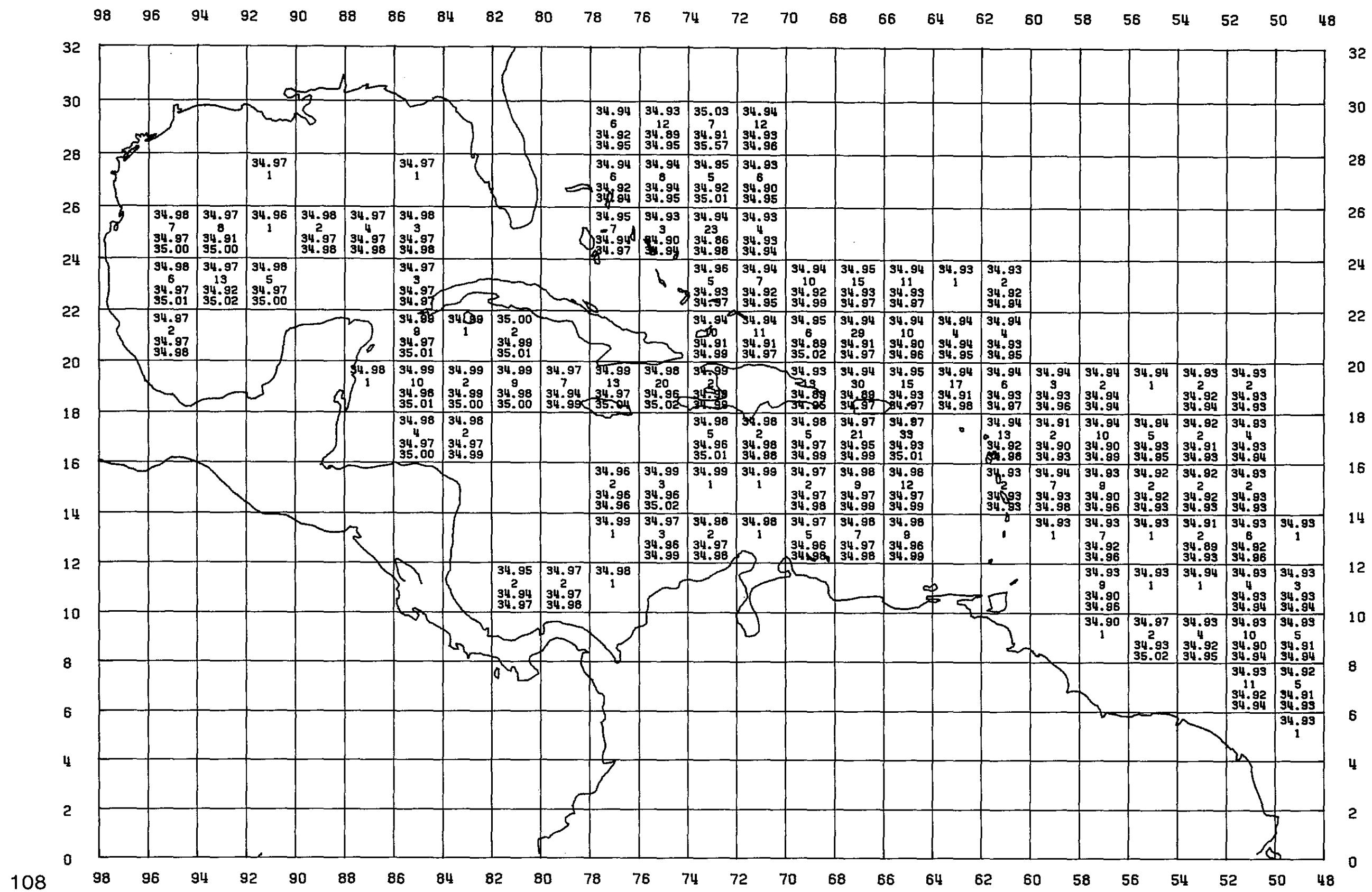
TEMPERATURE
3000 METER DEPTH

MONTHS 1 TO 12
737 STATIONS WERE PLOTTED



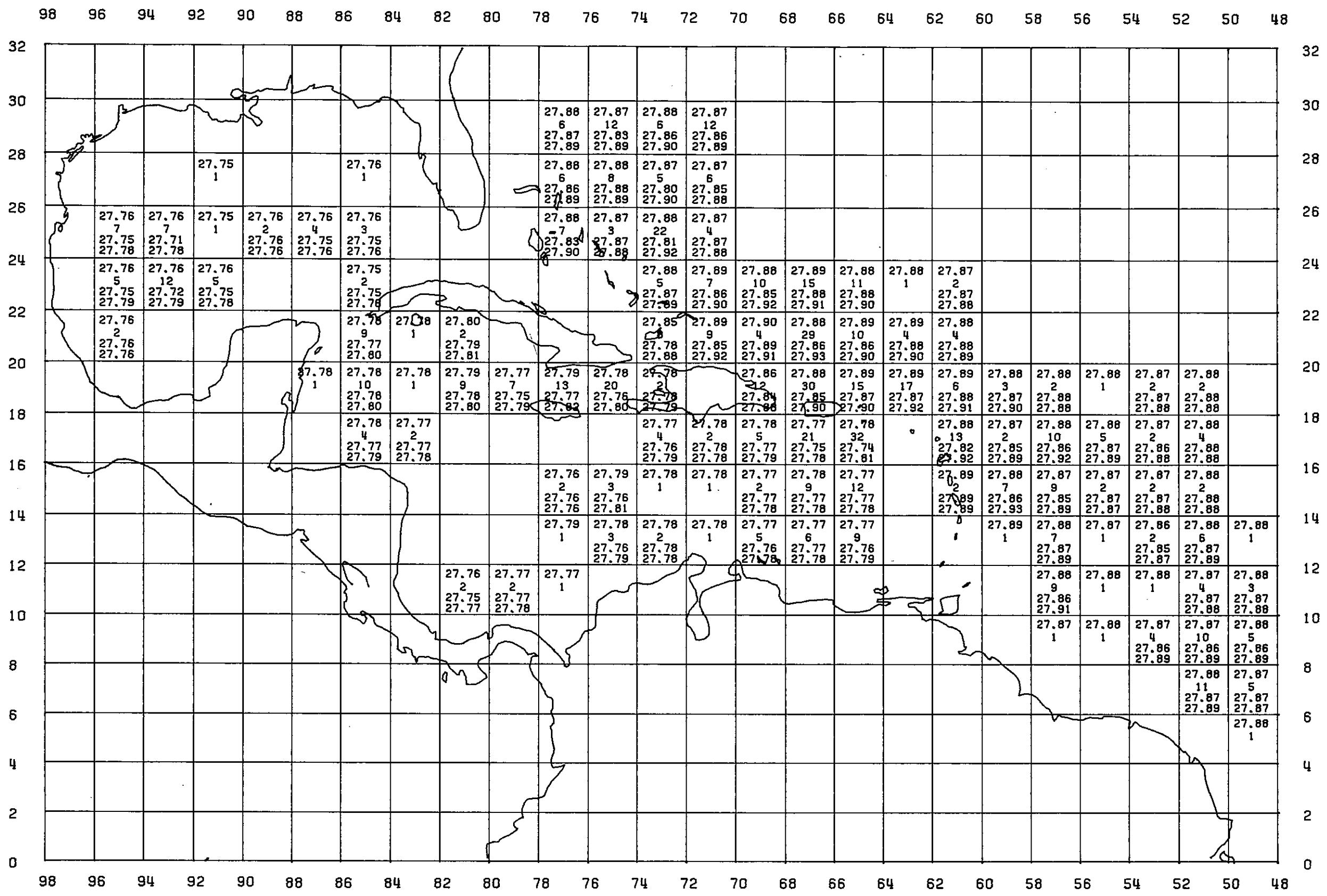
SALINITY
3000 METER DEPTH

MONTHS 1 TO 12
717 STATIONS WERE PLOTTED



SIGMA-T
3000 METER DEPTH

MONTHS 1 TO 12
699 STATIONS WERE PLOTTED



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