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**A HYDROGRAPHIC ATLAS OF
LARGER NORTH CAROLINA SOUNDS**

Austin B. Williams

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William J. Woods

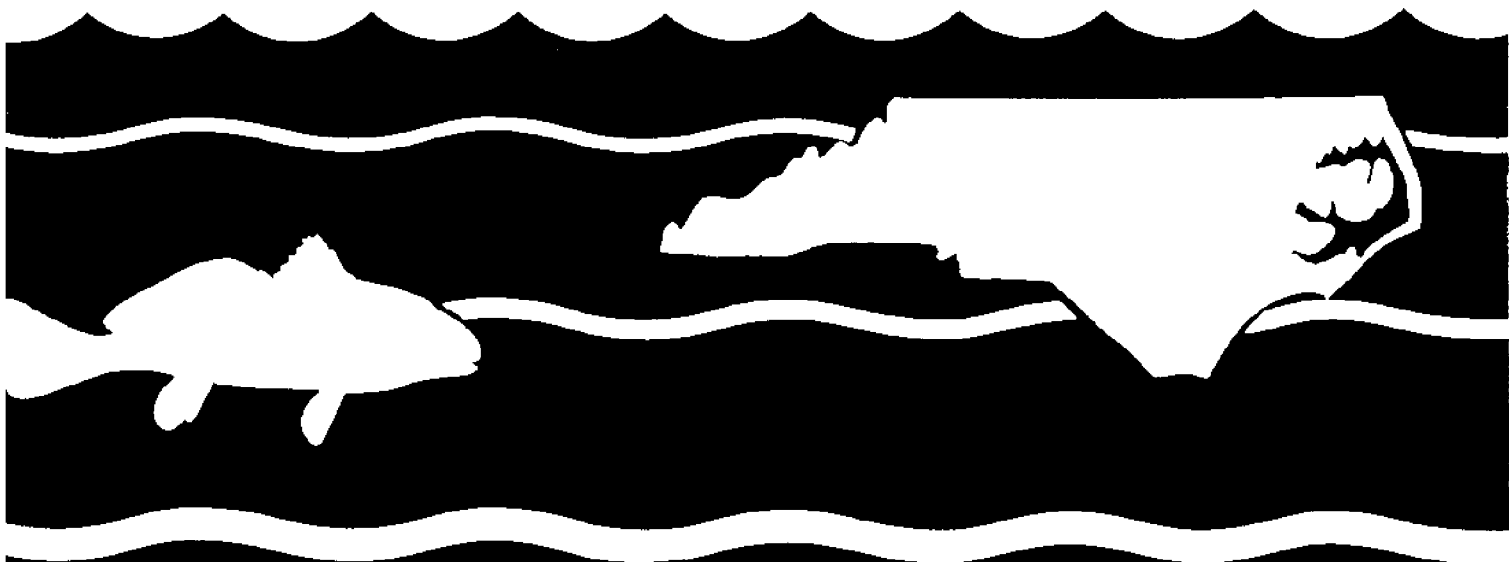
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Earl E. Deubler, Jr.

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A HYDROGRAPHIC ATLAS OF LARGER NORTH CAROLINA SOUNDS

by

Austin B. Williams, Gerald S. Posner, William J. Woods,
and Earl E. Deubler, Jr.

University of North Carolina Institute of Marine Sciences,
Morehead City, North Carolina

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ABSTRACT

An atlas of figures, tables, and short text provides a summary of salinity-temperature data for coastal North Carolina in files of the University of North Carolina Institute of Marine Sciences. Mean monthly surface and bottom isohalines and isotherms are depicted in a series of 48 figures. Monthly means and extremes for salinity-temperature values are listed in tables for 76 fixed stations.

INTRODUCTION

During the past three-quarters of a century, various portions of sounds and tidal rivers of North Carolina have been surveyed hydrographically as special interests required. Indeed, peculiarities of these estuaries have merited attention of maritime shipping interests since earliest colonial times because of their treacherous and shifting inlets through narrow barrier islands and their shallowness, which necessitated transfer of cargo at inlets from ships to shallow draft vessels for conveyance to inland ports. Coastal fisheries also generated an interest in hydrography which persists to the present. Bits of information on currents, salinities, temperatures, effects of storms, and other events including engineering projects, are scattered widely in the literature, from historic narratives to modern scientific papers, but effective physical description of these bodies of water has seldom been accomplished.

The smaller sounds, especially near Beaufort Inlet, have been sites for numerous biological studies and attendant physical observations, but, aside from these, published hydrographic records are sparse. Wells (1961) surveyed Newport River oyster beds and reviewed hydrographic records for that area. Williams (1955) surveyed a series of estuarine tributaries over the State during a study of juvenile shrimps and their nursery grounds, and Tagatz and Dudley (1961) surveyed shore habitats of marine fishes near Beaufort. But hydrographic accounts as such have been few. Marshall (1951) compiled a general historical review of hydrographic work in North Carolina marine waters; Roelofs and Bumpus (1953) summarized data collected from 1948 to 1953 in Pamlico Sound and reviewed previous studies in that area. Posner (1959) gave preliminary results of an expansion of this work, and Woods (in press) discussed recent studies in Western Pamlico Sound. The present atlas presents a digest of all hydrographic data collected by personnel of the Institute of Marine Sciences in estuaries north and east of the Whiteoak River, from June 1948 to June 1966, which can be referred to fixed stations.

Navigational aids and prominent geographic features have been logical reference points for hydrographic stations over the years. Data recorded at these places have reached levels conducive to summarization and general distribution. Two years ago the authors decided that all hydrographic data in Institute project files would be fitted, insofar as possible, to a set of

geographic points, placed in a central cross-indexed card file, and published in atlas form. We do not intend to interpret these data in this paper other than to establish contours; recordings are limited to ranges of variation and means.

Names of navigational aids and geographic places are from recent U.S. Coast and Geodetic Survey Coast and Harbor Charts (numbers and dates: 419, 1959; 420, 1964; 537, 1959; 538, 1959; 1228, 1959; 1229, 1964; 1231, 1964; 1232, 1964; 1233, 1957; 1234, 1962), and U.S. Geological Survey 7.5 minute series Topographic Quadrangles, 1939-54. Place names on these two series are not identical. Name changes were made in the mid-1950's; for such localities the latest published names were used.

Major hydrographic features are shown in figure 1. Hydrographic stations are numbered on figure 2. Tables following the series of maps are numbered in the same fashion; titles of tables give appropriate place names for numbered localities shown in figure 2. Individual station data for salinity and temperature are therefore summarized in the tables. The maps depict surface and bottom isohalines and isotherms based on monthly means shown in the tables. Distances given in table headings are in nautical miles.

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A great many people have contributed directly or indirectly to the accumulation of data. Most observers have been Institute staff members (A. C. Broad, A. F. Chestnut, E. E. Deubler, Jr., W. E. Fahy, W. A. Lund, Jr., H. J. Porter, G. S. Posner, E. W. Roelofs, A. B. Williams, W. J. Woods), but numerous student and full-time assistants have contributed as well. The authors had varied roles in production of the atlas. Posner and Woods were responsible for large series of data from sounds and rivers. Deubler and Williams took collateral data from rivers and inlets during faunal surveys. Deubler, Williams, and Woods collaborated on design of the cross-indexing system for data storage and form of presentation, and supervised clerical handling of data and mapping.

Mary Etta Pickard recorded and indexed all data except for calculation of means, which were computed and plotted by student assistants.

In addition to continuing legislative appropriations, partial support for this work was provided by National Science Foundation grants G-8785, G-9692; research grants from the Division of Commercial and Sports Fisheries of the North Carolina Department of Conservation and Development, and the Sport Fishing Institute; and contract aid from U.S. Fish and Wildlife Service, Commercial Fisheries Research and Development Act, Public Law 88-309, Project No. 2-9-R.

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Table 1.--Albemarle Sound, $\frac{1}{2}$ mile NE. Haulover Point, 1956

[Temperatures are °C. and salinities are p.p.t.]

Temperature						Salinity					
Mo.	Max.	Year	Min.	Year	No. \bar{x}	Max.	Year	Min.	Year	No.	\bar{x}
Surface											
J					1 3.24					1	4.87
F					1 9.35					1	4.11
M					1 7.85					1	3.55
A	12.68		12.28		2 12.48	3.39		3.17		2	3.28
M	20.95		20.74		2 20.85	3.24		2.97		2	3.11
J	24.11		23.63		2 23.87	3.73		3.24		2	3.49
J	28.83		28.80		2 28.82	3.62		3.57		2	3.60
A	26.90		26.81		2 26.87	3.80		3.51		2	3.66
S											
O					1 19.11					1	5.66
N											
D											
Bottom											
J					1 3.24					1	5.25
F					1 8.35					1	4.04
M					1 7.91					1	3.64
A					1 12.52					1	3.28
M					1 19.11					1	3.35
J					1 23.96					1	13.14
J					1 28.83					1	3.66
A					1 27.15					1	3.59
S											
O										1	14.65
N											
D											

Table 2.--Albemarle Sound, Alligator River Entrance at Bell 1, 1955-57

[Temperatures are °C. and salinities are p.p.t.]

Temperature						Salinity					
Mo.	Max.	Year	Min.	Year	No. \bar{x}	Max.	Year	Min.	Year	No. \bar{x}	
Surface											
J	3.84	1957	3.07	1956	3 3.48	4.04	1957	3.46	1956	4 3.73	
F	9.85	1956	7.08	1957	4 8.07	3.08	1957	2.74	1957	5 2.92	
M	11.69	1957	7.74	1956	2 9.72	2.48	1956	0.93	1957	3 1.49	
A	13.02	1956	11.79	1957	3 12.55	2.81	1956	1.13	1957	3 2.24	
M	22.91	1957	20.36	1956	4 21.35	3.04	1956	1.35	1957	4 2.09	
J	24.35	1956	24.26	1956	2 24.31	3.17	1956	3.08	1956	2 3.13	
J	29.13	1956	26.64	1957	3 28.19	3.95	1956	2.83	1957	3 3.46	
A	27.15	1956	26.38	1956	2 26.77	3.69	1956	3.69	1956	2 3.69	
S											
O				1955	1 21.46	5.91	1956	3.22	1955	2 4.57	
N	13.66	1956	13.46	1956	2 13.56	5.41	1956	5.37	1956	2 5.39	
D	12.54	1956	12.14	1956	3 12.41	4.11	1956	3.78	1956	3 3.93	
Bottom											
J	3.49	1957	3.04	1957	3 3.20	4.11	1957	3.48	1956	3 3.85	
F	9.79	1956	7.18	1957	4 8.06	3.37	1957	2.72	1957	4 3.09	
M	11.89	1957	7.85	1956	2 9.87	2.58	1956	0.90	1957	2 1.74	
A	12.96	1956	11.89	1957	2 12.43	2.72	1956	1.09	1957	2 1.91	
M	22.91	1957	20.46	1956	3 21.69	2.79	1956	1.29	1957	3 1.83	
J				1956	1 23.85				1956	1 3.19	
J	27.43	1956	26.74	1957	2 27.09	4.00	1956	2.67	1957	2 3.34	
A				1956	1 27.35				1956	1 3.77	
S											
O				1955	1 20.91				1956	1 6.91	
N	13.86	1956	13.46	1956	2 13.66	5.39	1956	5.31	1956	2 5.35	
D	12.54	1956	10.94	1956	3 11.61	4.54	1956	4.06	1956	3 4.29	

Table 3.--Albemarle Sound, Middle of Eastern Albemarle Sound, Run 2, 1955-57

[Temperatures are °C. and salinities are p.p.t.]

Temperature					Salinity						
No.	Max.	Year	Min.	Year	No. \bar{x}	Max.	Year	Min.	Year	No. \bar{x}	
Surface											
J	4.04	1957	2.96	1956	15 3.33	4.90	1956	3.62	1956	17 3.54	
F	9.02	1956	7.48	1957	4 7.93	3.93	1956	2.43	1957	7 3.31	
M	8.41	1956	7.89	1956	2 8.15	2.05	1956	1.31	1957	3 2.12	
A	13.07	1956	11.49	1957	3 12.45	3.95	1956	0.32	1957	4 2.11	
M	22.91	1957	20.29	1956	4 21.36	2.36	1956	1.58	1957	6 1.90	
J	24.78	1956	24.08	1956	2 24.13	3.80	1956	3.68	1956	2 3.74	
J	28.23	1956	26.54	1957	3 27.59	3.22	1956	2.03	1957	3 2.73	
A	26.95	1956	25.93	1956	2 26.44	2.90	1956	2.86	1956	2 2.88	
S											
O	21.57	1955	18.91	1956	2 20.24	7.29	1956	3.22	1955	3 5.84	
N	13.46	1956	13.36	1956	2 13.41	5.84	1956	5.52	1956	3 5.70	
D	11.80	1956	11.64	1956	2 11.72	4.09	1956	3.87	1956	4 3.97	
Bottom											
J	3.74	1957	3.29	1956	15 3.26	20.99	1956	3.95	1957	15 9.11	
F	8.91	1956	7.48	1957	4 8.01	3.86	1956	2.77	1957	4 3.16	
M				1956	1 8.46				1956	1 1.69	
A	12.91	1956	11.69	1956	2 12.30	3.69	1956	0.35	1957	2 2.02	
M	22.21	1957	20.18	1956	3 21.37	5.61	1957	1.69	1957	3 3.18	
J				1956	1 23.66				1956	1 4.29	
J	27.33	1956	26.44	1957	2 26.88	3.06	1956	2.12	1957	2 2.59	
A				1956	1 27.15				1956	1 2.92	
S											
O	21.02	1955	19.21	1956	2 20.12	7.59	1956	4.06	1955	2 5.83	
N	13.86	1956	13.61	1956	2 13.74	5.86	1956	5.77	1956	2 5.82	
D	11.04	1956	10.64	1956	2 10.84	4.65	1956	4.65	1956	2 4.65	

Table 4.--Albemarle Sound, North River Mouth at Light 46, 1955-57

[Temperatures are °C. and salinities are p.p.t.]

Temperature					Salinity					
Mo.	Max.	Year	Min.	Year	No. \bar{x}	Max.	Year	Min.	Year	No. \bar{x}
Surface										
J	3.84	1957	3.04	1957	3 3.47	4.15	1956	3.13	1957	4 3.42
F	10.35	1956	7.48	1957	4 8.57	4.47	1956	1.84	1957	6 2.41
M	11.94	1957	7.91	1956	3 9.36	2.47	1956	1.15	1957	3 1.96
A	13.41	1956	11.69	1957	2 12.55	2.30	1956	0.43	1957	3 1.21
M	23.71	1957	20.68	1957	4 22.48	2.21	1956	0.95	1957	6 1.34
J				1956	1 24.41				1956	1 2.90
J				1956	1 28.73	2.43	1956	1.85	1957	2 2.14
A				1956	1 26.45				1956	1 2.00
S										
O				1956	1 19.11	6.53	1956	4.86	1956	2 5.70
N	14.26	1956	13.66	1956	2 13.96	6.58	1956	6.46	1956	3 6.50
D	12.34	1956	8.46	1955	3 10.88	4.65	1956	3.17	1955	5 4.14
Bottom										
J	4.04	1957	3.24	1957	3 3.54	4.27	1956	3.13	1957	3 3.73
F	10.29	1956	7.58	1957	4 8.36	4.54	1956	1.94	1957	4 2.90
M	11.99	1957	8.24	1956	2 10.12	2.32	1956	1.00	1957	2 1.66
A	13.29	1956	11.89	1957	2 12.59	2.47	1956	0.79	1957	2 1.63
M	23.81	1957	20.68	1957	4 22.60	2.27	1956	0.99	1957	4 1.46
J				1956	1 24.02				1956	1 2.88
J				1956	1 28.23				1956	1 2.47
A				1956	1 26.85				1956	1 1.94
S										
O				1956	1 19.11				1956	1 7.18
N	14.56	1956	14.46	1956	2 14.51	6.58	1956	6.09	1956	2 6.34
D	12.84	1956	8.29	1955	3 11.12	4.74	1956	3.24	1955	3 4.10

Table 5.--Albemarle Sound, North River off Barnett Creek at Light 37, 1955-56

[Temperatures are °C. and salinities are p.p.t.]

Temperature					Salinity				
Mo. Max.	Year	Min.	Year	No. ¯	Max.	Year	Min.	Year	No. ¯
Surface									
J			1956	1 3.35				1956	1 3.24
F			1956	1 10.85				1956	1 3.28
M			1956	1 7.68				1956	1 2.41
A			1956	1 12.96				1956	1 1.93
M			1956	1 20.52				1956	1 1.98
J			1956	1 24.79				1956	1 2.09
J			1956	1 29.03				1956	1 1.94
A			1956	1 26.85				1956	1 1.84
S									
O									
N									
D			1955	1 7.57				1955	1 3.04
Bottom									
J			1956	1 3.46				1956	1 3.21
F			1956	1 10.18				1956	1 4.06
M			1956	1 7.57				1956	1 2.29
A			1956	1 12.91				1956	1 1.87
M			1956	1 20.52				1956	1 2.14
J			1956	1 24.46				1956	1 2.27
J			1956	1 27.73				1956	1 2.03
A			1956	1 27.35				1956	1 1.76
S									
O									
N									
D			1955	1 7.57				1955	1 3.12

Table 6.--Albemarle Sound, Pasquotank River off Miller Point at Light 4, 1955-56

[Temperatures are °C. and salinities are p.p.t.]

Temperature					Salinity							
Mo.	Max.	Year	Min.	Year	No.	\bar{x}	Max.	Year	Min.	Year	No.	\bar{x}
Surface												
J				1956	1	3.63				1956	1	3.71
F				1956	1	11.41				1956	1	3.28
M				1956	1	9.27				1956	1	2.11
A				1956	1	13.24				1956	1	1.17
M				1956	1	21.07				1956	1	1.46
J				1956	1	25.24				1956	1	1.44
J				1956	1	27.93				1956	1	1.37
A				1956	1	26.05				1956	1	2.12
S												
O												
N												
D				1955	1	7.96				1955	1	2.41
Bottom												
J				1956	1	3.52				1956	1	3.96
F				1956	1	11.46				1956	1	3.35
M				1956	1	9.47				1956	1	2.00
A				1956	1	13.19				1956	1	1.31
M				1956	1	21.07				1956	1	1.47
J				1956	1	24.18				1956	1	1.51
J				1956	1	27.93				1956	1	1.37
A				1956	1	26.05				1956	1	2.12
S												
O												
N												
D				1955	1	7.96				1955	1	2.41

Table 7.--Albemarle Sound, Pasquotank River Mouth at Light 1, 1955-56

[Temperatures are °C. and salinities are p.p.t.]

Temperature					Salinity					
Mo. Max.	Year	Min.	Year	No. \bar{x}	Max.	Year	Min.	Year	No. \bar{x}	
Surface										
J			1956	1 4.63				1956	1 4.63	
F			1956	1 10.02				1956	1 3.80	
M			1956	1 9.57				1956	1 2.38	
A	13.05	1956	12.52	1956	2 12.79	2.11	1956	1.91	1956	2 2.01
M	20.21	1956	20.13	1956	2 20.19	2.20	1956	2.05	1956	2 2.13
J	25.71	1956	24.68	1956	2 25.21	1.82	1956	1.56	1956	2 1.69
J	28.23	1956	27.40	1956	2 27.82	3.01	1956	2.56	1956	2 2.79
A	25.65	1956	25.18	1956	2 25.12	2.85	1956	2.27	1956	2 2.56
S										
O			1956	1 19.01				1956	1 6.47	
N										
D			1955	1 8.13				1955	1 2.95	
Bottom										
J			1956	1 4.65				1956	1 4.65	
F			1956	1 10.21				1956	1 3.80	
M			1956	1 9.57				1956	1 1.51	
A			1956	1 12.52				1956	1 2.29	
M			1956	1 20.13				1956	1 2.05	
J			1956	1 24.41				1956	1 1.82	
J			1956	1 28.23				1956	1 2.65	
A			1956	1 26.35				1956	1 2.18	
S										
O			1956	1 19.01				1956	1 6.64	
N										
D			1955	1 8.13				1956	1 2.92	

Table 8.--Albemarle Sound, Target Barge at Ship Point, 1955-56

[Temperatures are °C. and salinities are p.p.t.]

Temperature						Salinity					
Mo.	Max.	Year	Min.	Year	No. \bar{x}	Max.	Year	Min.	Year	No. \bar{x}	
Surface											
J											
F	9.85	1956	9.74	1956	2 9.80	3.41	1956	2.45	1956	2 2.93	
M				1956	1 9.07				1956	1 1.79	
A				1956	1 12.96				1956	1 1.84	
M				1956	1 20.52				1956	1 1.53	
J				1956	1 26.35				1956	1 2.00	
J				1956	1 27.93				1956	1 3.50	
A				1956	1 26.15				1956	1 3.21	
S											
O				1956	1 21.85				1956	1 1.64	
N											
D				1955	1 7.68				1955	1 2.05	
Bottom											
J											
F	9.91	1956	9.79	1956	2 9.85	3.42	1956	2.41	1956	2 2.92	
M				1956	1 9.96				1956	1 1.67	
A				1956	1 12.96				1956	1 1.80	
M				1956	1 20.52				1956	1 1.47	
J				1956	1 23.63				1956	1 0.93	
J				1956	1 27.63				1956	1 3.60	
A				1956	1 26.75				1956	1 3.21	
S											
O				1956	1 20.91						
N											
D				1956	1 7.68				1955	1 2.03	

Table 9.--Albemarle Sound, Harvey Point, Buoy SSE. of Point, 1955-56

[Temperatures are °C. and salinities are p.p.t.]

Temperature					Salinity					
Mo. Max.	Year	Min.	Year	No. \bar{x}	Max.	Year	Min.	Year	No. \bar{x}	
Surface										
J								1956	1	2.90
F			1956	1	10.02			1956	1	1.14
M			1956	1	9.63			1956	1	0.67
A			1956	1	13.63			1956	1	0.88
M			1956	1	20.74			1956	1	0.75
J			1956	1	27.29			1956	1	0.84
J			1956	1	28.03			1956	1	1.82
A			1956	1	26.35			1956	1	1.94
S										
O			1955	1	22.79					
N			1955	1	17.49			1955	1	1.17
D			1955	1	7.52			1955	1	1.53
Bottom										
J								1956	1	3.12
F			1956	1	9.96			1956	1	1.58
M			1956	1	9.63			1956	1	0.60
A			1956	1	13.02			1956	1	1.06
M			1956	1	20.16			1956	1	0.77
J			1956	1	23.79			1956	1	1.27
J			1956	1	27.83			1956	1	2.27
A			1956	1	26.65			1956	1	1.98
S										
O			1955	1	21.96					
N										
D			1955	1	7.52			1955	1	1.55

Table 10.--Albemarle Sound, Perquimans River at Blount Point, 1955-56

[Temperatures are °C. and salinities are p.p.t.]

Temperature					Salinity				
Mo. Max.	Year	Min.	Year	No. \bar{x}	Max.	Year	Min.	Year	No. \bar{x}
Surface									
J			1956	1 2.79				1956	1 1.93
F			1956	1 11.63				1956	1 1.74
M			1956	1 9.46				1956	1 0.99
A			1956	1 13.91				1956	1 0.70
M			1956	1 20.85				1956	1 0.77
J			1956	1 27.96				1956	1 0.57
J			1956	1 28.13				1956	1 1.42
A			1956	1 26.15				1956	1 1.73
S									
O									
N			1955	1 16.55				1955	1 0.91
D			1955	1 6.85				1955	1 1.65
Bottom									
J			1956	1 3.07				1956	1 1.87
F			1956	1 11.63				1956	1 1.74
M			1956	1 9.46				1956	1 1.00
A			1956	1 13.74				1956	1 0.76
M			1956	1 20.74				1956	1 0.93
J			1956	1 23.29				1956	1 0.72
J			1956	1 27.93				1956	1 1.38
A			1956	1 26.55				1956	1 1.69
S									
O									
N									
D			1955	1 6.85				1955	1 1.71

Table 11.--Albemarle Sound, Laurel Point Light, 1955-56

[Temperatures are °C. and salinities are p.p.t.]

Temperature					Salinity							
Mo.	Max.	Year	Min.	Year	No.	\bar{x}	Max.	Year	Min.	Year	No.	\bar{x}
Surface												
J				1956	1	2.91				1956	1	1.12
F				1956	1	10.18				1956	1	0.61
M	9.23	1956	9.13	1956	2	9.18	0.68	1956	0.38	1956	2	0.53
A				1956	1	13.41				1956	1	0.26
M				1956	1	21.63				1956	1	0.28
J				1956	1	26.57				1956	1	0.63
J				1956	1	28.13				1956	1	1.46
A				1956	1	26.25				1956	1	1.87
S												
O				1955	1	21.68				1955	1	0.76
N												
D				1955	1	7.63				1955	1	1.13
Bottom												
J				1956	1	2.74				1956	1	1.11
F				1956	1	9.91				1956	1	0.62
M				1956	1	9.24				1956	1	0.44
A				1956	1	13.52				1956	1	0.27
M				1956	1	20.74				1956	1	0.30
J				1956	1	24.46				1956	1	1.37
J				1956	1	27.53				1956	1	1.71
A				1956	1	26.40				1956	1	1.87
S												
O				1955	1	21.24						
N												
D				1955	1	7.63				1956	1	1.20

Table 12.--Albemarle Sound, highway bridge midway between Sandy Point and Leonards Point, 1955-56

[Temperatures are °C. and salinities are p.p.t.]

Temperature					Salinity							
Mo.	Max.	Year	Min.	Year	No.	\bar{x}	Max.	Year	Min.	Year	No.	\bar{x}
Surface												
J				1956	1	3.18				1956	1	0.20
F				1956	1	10.35				1956	1	0.10
M				1956	1	9.24				1956	1	0.07
A				1956	1	13.85				1956	1	0.09
M				1956	1	21.91				1956	1	0.08
J				1956	1	30.35				1956	1	0.10
J				1956	1	28.53				1956	1	0.97
A				1955	1	26.65				1956	1	0.97
S												
O	24.68	1955	21.96	1956	2	23.32				1956	1	0.10
N												
D				1955	1	7.63				1955	1	0.34
Bottom												
J				1956	1	3.13				1956	1	0.20
F				1956	1	10.29				1956	1	0.09
M				1956	1	9.24				1956	1	0.13
A				1956	1	13.63				1956	1	0.08
M				1956	1	20.68				1956	1	0.10
J				1956	1	23.41				1956	1	1.69
J				1956	1	27.43				1956	1	0.90
A				1956	1	26.75				1956	1	0.99
S												
O	21.13	1955	21.02	1956	2	21.08						
N												
D				1955	1	7.52				1955	1	0.32

Table 13.--Albemarle Sound, middle of sound between Cherry Point and Albemarle Beach, 1955-56

[Temperatures are °C. and salinities are p.p.t.]

Temperature						Salinity					
Mo.	Max.	Year	Min.	Year	No. \bar{x}	Max.	Year	Min.	Year	No.	\bar{x}
Surface											
J				1956	1 3.41				1956	1	0.21
F				1956	1 10.57				1956	1	0.07
M				1956	1 9.35				1956	1	0.07
A	14.99	1956	14.18	1956	2 14.59	0.07	1956	0.07	1956	2	0.07
M				1956	1 23.20				1956	1	0.14
J	29.55	1956	28.63	1956	2 29.09	0.12	1956	0.08	1956	2	0.19
J	28.80	1956	28.23	1956	2 28.52	0.77	1956	0.68	1956	2	0.73
A	26.25	1956	25.88	1956	2 26.07	0.61	1956	0.50	1956	2	0.56
S											
O											
N											
D				1955	1 7.07				1955	1	0.17
Bottom											
J				1956	1 3.13				1956	1	0.57
F				1956	1 10.57				1956	1	0.08
M				1956	1 9.29				1956	1	0.08
A				1956	1 13.80				1956	1	0.06
M											
J				1956	1 24.07				1956	1	0.08
J				1956	1 27.63				1956	1	0.84
A				1956	1 26.45				1956	1	0.48
S											
O											
N											
D				1955	1 7.13				1956	1	0.17

Table 14.--Albemarle Sound, Edenton Bay Entrance at Bell 2, 1955-56

[Temperatures are °C. and salinities are p.p.t.]

Temperature						Salinity					
Mo.	Max.	Year	Min.	Year	No. \bar{x}	Max.	Year	Min.	Year	No. \bar{x}	
Surface											
J				1956	1 4.18				1956	1 0.15	
F											
M				1956	1 9.96				1956	1 0.07	
A	15.09	1956	14.63	1956	2 14.86	0.08	1956	0.07	1956	2 0.08	
M	21.96	1956	20.59	1956	2 21.28	0.08	1956	0.07	1956	2 0.08	
J	26.07	1956	25.47	1956	2 25.77	0.08	1956	0.08	1956	2 0.08	
J				1956	1 29.42				1956	1 0.30	
A	26.15	1956	25.76	1956	2 25.96	0.28	1956	0.25	1956	2 0.27	
S											
O											
N											
D	11.02	1956	6.68	1955	2 8.85	0.21	1955	0.07	1956	2 0.14	
Bottom											
J				1956	1 4.18				1956	1 0.15	
F											
M				1956	1 10.07				1956	1 0.07	
A				1956	1 14.18				1956	1 0.06	
M				1956	1 21.91				1956	1 0.07	
J				1956	1 25.63				1956	1 0.10	
J				1956	1 28.43				1956	1 0.30	
A				1956	1 26.45				1956	1 0.28	
S											
O											
N											
D	10.91	1956	6.68	1955	2 8.80	0.21	1955	0.09	1956	2 0.15	

Table 15.--Croatan Sound, off Reeds Point, 1956-57

[Temperatures are °C. and salinities are p.p.t.]

Temperature						Salinity					
Mo.	Max.	Year	Min.	Year	No. \bar{x}	Max.	Year	Min.	Year	No.	\bar{x}
Surface											
J	5.77	1957	3.29	1956	5 4.66	14.24	1957	4.45	1957	9	7.76
F	9.35	1956	6.98	1956	5 7.92	4.07	1957	3.35	1957	10	3.55
M	12.44	1957	8.79	1956	3 11.21	4.00	1956	1.15	1957	5	1.76
A	12.57	1956	12.27	1956	2 12.42	3.22	1956	3.19	1956	2	3.21
M	23.21	1957	18.31	1957	6 20.93	13.73	1957	1.19	1957	8	5.23
J	24.17	1956	23.86	1956	3 23.98	16.42	1956	4.69	1956	3	12.41
J	28.93	1956	27.24	1957	4 28.05	8.55	1957	3.75	1956	5	5.43
A	26.95	1956	25.56	1956	2 26.26	4.56	1956	4.56	1956	2	4.56
S											
O	19.98	1956	6.74	1956	4 16.10	11.78	1956	6.24	1956	3	8.13
N	16.54	1956	13.76	1956	5 15.19	15.21	1956	5.88	1956	7	8.54
D	13.24	1956	8.03	1956	4 10.47	6.55	1956	3.96	1956	6	5.03
Bottom											
J	5.72	1957	3.29	1956	5 4.23	14.52	1957	6.31	1956	5	10.90
F	9.35	1956	7.13	1957	5 8.06	6.98	1956	3.48	1957	5	4.32
M	12.59	1957	8.68	1956	3 11.12	4.09	1956	1.19	1957	3	2.16
A				1956	1 12.16				1956	1	3.39
M	22.31	1957	15.01	1957	4 19.95	19.52	1957	3.82	1957	4	9.37
J				1956	1 23.91				1956	1	16.15
J	27.34	1957	26.24	1957	2 26.79	8.35	1957	3.98	1957	3	5.71
A				1956	1 27.25				1956	1	4.63
S											
O	21.55	1956	18.18	1956	4 19.78	17.99	1956	6.09	1956	3	10.14
N	17.04	1956	13.96	1956	5 15.57	15.53	1956	6.20	1956	5	9.54
D	12.84	1956	7.83	1956	4 10.44	7.20	1956	4.63	1956	4	6.19

Table 16.--Croatan Sound, Roanoke Marshes Light, 1955-57

[Temperatures are °C. and salinities are p.p.t.]

Temperature						Salinity					
No.	Max.	Year	Min.	Year	No. \bar{x}	Max.	Year	Min.	Year	No.	\bar{x}
Surface											
J	5.94	1957	3.63	1956	4 5.37	18.03	1957	8.59	1957	4	14.20
F	10.29	1956	7.48	1957	3 8.66	3.68	1957	3.50	1957	3	3.61
M	12.69	1957	7.48	1956	17 11.32	11.80	1956	1.94	1957	17	4.46
A	13.04	1956	12.41	1956	3 12.77	3.86	1956	2.27	1956	3	3.05
M	23.41	1957	20.52	1956	4 21.58	16.11	1956	7.76	1957	5	11.49
J	24.75	1956	21.74	1956	26 24.03	20.64	1956	16.33	1956	26	18.35
J	28.23	1956	26.74	1957	16 27.47	14.35	1957	5.97	1956	17	11.40
A	27.35	1956	25.59	1956	3 26.94	10.86	1956	8.49	1956	3	9.90
S											
O	22.13	1955	19.01	1956	4 20.21	21.22	1956	7.48	1956	3	13.38
N	17.04	1956	13.66	1956	4 15.33	12.36	1956	7.38	1956	5	9.93
D	13.94	1956	8.23	1956	4 11.12	9.11	1956	7.61	1956	4	8.13
Bottom											
J	6.27	1957	3.55	1956	4 4.88	20.11	1956	13.10	1957	4	17.27
F	10.29	1956	7.28	1957	3 8.62	11.70	1956	3.64	1957	3	10.21
M	12.59	1957	6.52	1956	16 11.36	21.44	1956	1.93	1957	16	5.92
A				1956	1 12.35				1956	1	3.04
M	23.51	1957	19.91	1956	3 21.74	19.45	1956	8.04	1957	4	14.04
J	26.33	1956	21.07	1956	25 23.35	27.79	1956	18.10	1956	25	19.88
J	28.04	1957	26.74	1957	16 27.28	19.90	1957	7.59	1956	16	13.57
A	27.85	1957	27.02	1956	2 27.44	10.91	1956	10.77	1956	2	10.84
S											
O	20.85	1955	19.26	1956	4 19.92	25.75	1956	7.59	1956	3	17.80
N	17.84	1956	13.86	1956	4 15.51	13.82	1956	8.42	1956	4	10.56
D	12.34	1956	8.13	1956	4 10.24	18.19	1956	13.69	1956	4	16.35

Table 17.--Oregon Inlet, 1956-59

[Temperatures are °C. and salinities are p.p.t.]

Temperature						Salinity					
Mo.	Max.	Year	Min.	Year	No. \bar{x}	Max.	Year	Min.	Year	No. \bar{x}	
Surface											
J	10.92	1957	3.98	1959	9 6.30	27.85	1958	8.51	1959	9 17.12	
F											
M	6.91	1956	6.52	1956	3 6.76	27.36	1956	21.80	1956	3 24.53	
A	9.74	1956	9.59	1956	2 9.67	30.64	1956	30.43	1956	2 30.54	
M											
J											
J											
A	20.80	1956	20.29	1956	2 20.55				1956	1 32.03	
S											
O											
N				1956	1 16.34				1956	1 26.92	
D	13.23	1956	11.03	1956	12 12.33	31.36	1956	20.13	1956	11 27.30	
Bottom											
J	10.17	1957	4.18	1959	5 7.12	31.09	1958	9.78	1959	4 16.23	
F											
M				1956	1 6.57						
A									1956	1 30.86	
M											
J											
J											
A				1956	1 20.18				1956	1 32.14	
S											
O											
N				1956	1 16.44				1956	1 26.92	
D	13.13	1956	11.83	1956	12 12.51	30.28	1956	23.12	1956	5 27.18	

Table 18.--Pamlico Sound, 4 mi. E. Stumpy Point Bay Entrance Light, 1955-57

[Temperatures are °C. and salinities are p.p.t.]

Temperature						Salinity					
Mo.	Max.	Year	Min.	Year	No. \bar{x}	Max.	Year	Min.	Year	No.	\bar{x}
Surface											
J	5.97	1957	3.63	1956	2 4.80	22.34	1956	14.22	1957	2	18.28
F	10.41	1956	10.20	1957	2 10.31	11.18	1956	7.32	1957	2	9.25
M	11.94	1957	8.52	1956	2 10.23	16.06	1956	5.79	1957	2	10.92
A				1956	1 12.63				1956	1	10.77
M	22.31	1957	17.31	1957	3 20.34	16.70	1956	13.98	1957	3	15.70
J				1956	1 23.96				1956	1	18.40
J	28.43	1956	27.24	1957	2 27.84	17.72	1957	12.29	1956	3	15.63
A				1956	1 27.25				1956	1	17.11
S											
O	20.18	1956	19.11	1956	2 19.65	24.18	1956	17.72	1956	2	20.95
N	16.84	1956	13.76	1956	2 15.30	14.79	1956	9.69	1956	2	12.24
D	9.13	1955	8.73	1956	2 8.93	19.42	1956	16.11	1955	2	17.76
Bottom											
J	7.77	1957	3.41	1956	2 5.59	26.53	1957	22.43	1956	2	24.48
F	10.30	1957	9.35	1956	2 9.83	14.02	1956	7.67	1957	2	10.83
M	12.09	1957	8.57	1956	2 10.33	16.06	1956	12.27	1957	2	14.16
A				1956	1 12.63				1956	1	10.59
M	22.11	1957	18.24	1956	2 20.18	25.90	1956	14.36	1957	3	18.88
J				1956	1 19.71				1956	1	27.11
J	27.29	1957	26.93	1956	2 27.11	18.53	1956	17.70	1957	2	18.12
A				1956	1 27.45				1956	1	17.20
S											
O	20.28	1956	19.27	1956	2 19.78	24.33	1956	17.66	1956	2	20.83
N	17.44	1956	14.26	1956	2 15.85	15.68	1956	11.58	1956	2	13.63
D	9.41	1955	9.33	1956	2 9.37	29.00	1955	19.67	1956	2	24.34

Table 19.--Pamlico Sound, Long Shoal Light, 1951-57

[Temperatures are °C. and salinities are p.p.t.]

Temperature						Salinity					
Mo.	Max.	Year	Min.	Year	No. \bar{x}	Max.	Year	Min.	Year	No. \bar{x}	
Surface											
J	6.50	1952	3.29	1956	3 5.40	24.14	1956	19.11	1957	3 20.92	
F	10.10	1957	7.00	1954	5 9.04	20.10	1954	18.15	1957	5 19.14	
M	12.09	1957	9.00	1952	6 9.43	19.36	1956	12.83	1957	6 16.12	
A	18.80	1952	13.41	1956	4 16.58	17.00	53/6	10.80	1951	4 14.38	
M	23.00	1953	17.51	1957	5 21.22	17.74	1956	12.60	1953	6 14.85	
J	26.30	1952	23.39	1956	2 24.84	17.90	1956	15.93	1952	2 16.92	
J	28.43	1956	27.14	1957	3 28.40	17.79	1956	16.73	1952	4 17.40	
A	28.75	1951	27.45	1956	3 28.23	18.66	1956	18.53	1956	3 18.59	
S				1951	1 23.90				1951	1 18.22	
O	22.46	1955	20.68	1956	3 21.21	21.30	1953	17.81	1955	3 19.94	
N	17.04	1956	14.16	1956	3 15.32	17.41	1956	16.15	1956	3 16.89	
D	13.54	1956	8.96	1955	3 10.60	19.79	1956	17.16	1955	4 18.63	
Bottom											
J	3.29	1956	1.87	1957	2 2.58	22.12	1956	20.03	1957	2 21.08	
F	9.91	1956	9.90	1957	2 9.90	19.49	1956	19.33	1957	2 19.41	
M	12.59	1957	9.18	1956	2 10.89	18.80	1956	16.58	1957	2 17.69	
A				1956	1 13.46				1956	1 17.07	
M	22.41	1957	18.21	1957	3 20.32	16.02	1957	18.17	1956	3 17.19	
J				1956	1 23.46				1956	1 17.97	
J	27.83	1956	27.14	1957	3 27.47	20.43	1956	17.68	1957	3 18.68	
A				1956	1 27.55				1956	1 18.91	
S											
O	22.29	1955	20.88	1956	2 21.59	20.77	1956	17.81	1955	2 19.29	
N	17.14	1956	14.76	1956	3 14.62	17.50	1956	16.08	1956	3 16.87	
D	12.64	1956	8.79	1955	3 10.30	19.85	1956	18.80	1955	3 19.33	

Table 20.--Pamlico Sound, 1½ mi. W. Gull Island, 1951-57

[Temperatures are °C. and salinities are p.p.t.]

Temperature						Salinity					
Mo.	Max.	Year	Min.	Year	No. \bar{x}	Max.	Year	Min.	Year	No.	\bar{x}
Surface											
J	7.60	1953	3.29	1956	4 5.82	22.70	1956	17.22	1952	4	19.80
F	10.18	1956	7.00	1954	5 9.06	20.10	1954	16.44	1952	4	18.44
M	11.94	1957	8.00	1952	4 9.78	19.40	1956	10.47	1952	4	15.56
A	19.70	1952	13.29	1956	4 16.62	17.48	1956	15.37	1952	4	16.45
M	24.41	1956	17.51	1957	4 21.73	19.11	1956	13.70	1953	4	15.38
J				1956	1 24.07				1956	1	17.52
J	30.00	1952	28.43	1956	2 29.22	20.39	1956	19.51	1952	2	19.95
A	29.00	1951	27.35	1956	2 28.18	21.52	1951	19.05	1956	2	20.28
S											
O	22.52	1955	20.68	1956	2 21.60				1956	1	20.39
N				1956	1 17.44				1956	1	23.12
D	10.90	1952	8.63	1956	3 9.52	19.49	1956	18.24	1952	3	18.72
Bottom											
J	6.87	1957	3.29	1956	2 5.08	22.70	1956	19.87	1957	2	21.29
F	10.10	1957	10.07	1956	2 10.08	19.69	1957	18.46	1956	2	19.08
M	11.99	1957	8.63	1956	2 10.31	19.33	1956	15.23	1957	2	17.28
A				1956	1 13.24				1956	1	17.52
M	20.35	1956	18.01	1957	2 19.18	18.44	1956	14.98	1957	2	16.71
J				1956	1 24.07				1956	1	17.65
J				1956	1 27.13				1956	1	21.38
A				1956	1 27.45				1956	1	19.25
S											
O	22.07	1955	20.98	1956	2 21.53				1956	1	20.41
N				1956	1 17.74				1956	1	23.19
D	8.74	1955	8.63	1956	2 8.69	19.51	1956	18.68	1955	2	19.09

Table 21.--Pamlico Sound, Pingleton Shoal Light, 1952-57

[Temperatures are °C. and salinities are p.p.t.]

Temperature						Salinity					
Mo.	Max.	Year	Min.	Year	No. \bar{x}	Max.	Year	Min.	Year	No.	\bar{x}
Surface											
J	6.12	1957	3.52	1956	2 4.97	20.55	1956	19.85	1957	2	20.20
F	9.91	1956	9.60	1957	2 9.76	20.07	1957	19.23	1956	2	19.70
M	12.39	1957	9.07	1956	2 10.73	19.70	1956	13.03	1957	2	16.27
A	15.50	1953	13.74	1956	2 14.62	18.06	1956	17.90	1953	2	17.98
M	20.85	1956	17.31	1957	3 19.65	19.90	1954	13.66	1957	3	16.78
J				1956	1 23.63				1956	1	17.25
J	27.98	1956	27.74	1957	2 27.86	18.12	1957	17.76	1956	2	17.94
A				1956	1 27.65				1956	1	18.30
S											
O	21.52	1955	19.31	1956	3 20.60	21.31	1956	20.30	1956	2	20.80
N	17.54	1956	14.56	1956	3 15.55	19.34	1956	18.64	1956	3	19.06
D	13.84	1956	8.93	1956	4 11.09	19.83	1956	17.22	1952	4	18.47
Bottom											
J	6.47	1957	3.52	1956	2 4.99	20.52	1956	19.85	1957	2	20.39
F	10.02	1956	9.70	1957	2 9.86	20.14	1957	19.96	1956	2	20.05
M	12.94	1957	9.07	1956	2 11.01	19.79	1956	13.51	1957	2	16.65
A				1956	1 13.30				1956	1	18.12
M	20.24	1956	17.81	1957	2 19.03	16.53	1956	14.00	1957	2	15.27
J				1956	1 23.52				1956	1	17.85
J	27.33	1956	26.84	1957	2 27.07	18.30	1957	17.99	1956	2	18.15
A				1956	1 27.65				1956	1	18.22
S											
O	22.41	1955	19.31	1956	3 21.07	21.29	1956	20.12	1956	2	20.71
N	17.59	1956	14.46	1956	3 15.67	19.74	1956	18.77	1956	3	19.28
D	12.69	1956	9.33	1956	2 11.01	19.74	1956	19.63	1956	2	19.68

Table 22.--Pamlico Sound, Far Creek channel near Marker 3, 1951-56

[Temperatures are °C. and salinities are p.p.t.]

Temperature						Salinity					
Mo.	Max.	Year	Min.	Year	No. \bar{x}	Max.	Year	Min.	Year	No. \bar{x}	
Surface											
J				1953	1 6.80				1953	1 16.10	
F	9.50	1952	7.80	1954	3 8.83	21.00	1954	19.58	1952	3 20.23	
M	13.60	1956	9.80	1954	4 10.92	18.70	1954	16.67	1952	4 17.56	
A	20.50	1951	16.00	1953	3 18.30	17.80	1953	15.37	1951	3 16.18	
M											
J				1952	1 26.60				1952	1 14.98	
J	30.00	1952	29.20	1951	2 29.60	18.01	1951	17.09	1952	2 17.55	
A											
S				1952	1 22.80				1952	1 18.17	
O	21.70	1952	20.40	1953	2 21.05	20.10	1953	18.00	1952	2 19.05	
N											
D				1952	1 10.70	19.60	1956	18.22	1952	2 18.91	
Bottom											
J											
F											
M											
A											
M				1954	1 21.00				1954	1 18.00	
J				1954	1 26.60				1954	1 16.70	
J											
A	29.40	1954	26.70	1953	2 28.05	20.80	1954	16.30	1953	2 18.55	
S				1954	1 27.00				1954	1 19.90	
O											
N											
D											

Table 23.--Pamlico Sound, Gibbs Shoal Light, 1948-57

Temperatures are °C. and salinities are p.p.t.]

Temperature						Salinity					
Mo.	Max.	Year	Min.	Year	No. \bar{x}	Max.	Year	Min.	Year	No.	\bar{x}
Surface											
J	7.70	1953	3.41	1956	4 5.98	21.00	1952	19.63	1957	4	20.46
F	10.57	1956	7.40	1954	4 8.99	20.90	1954	19.60	1956	4	20.05
M	13.60	1956	8.60	1949	9 11.12	13.80	1954	13.06	1949	9	16.68
A	19.40	1952	14.60	1953	4 16.85	18.40	1953	13.46	1952	5	16.65
M	22.50	1951	18.11	1957	5 20.77	18.15	1956	14.29	1957	4	16.09
J	30.60	1949	21.02	1956	5 27.54	17.50	1954	14.29	1949	5	16.02
J	31.00	1952	27.14	1957	4 28.62	18.42	1951	17.22	1952	4	18.03
A	29.20	1952	25.90	1948	4 27.91	18.48	1956	18.14	1952	4	18.32
S	26.80	1950	26.70	1950	2 26.75	14.52	1950	14.33	1950	2	14.42
O	21.88	1956	21.60	1953	2 21.74	20.19	1956	20.00	1953	2	20.10
N				1956	1 18.64				1956	1	19.69
D	10.10	1959	9.13	1955	4 9.59	19.94	1956	14.45	1949	4	17.16
Bottom											
J	6.52	1957	3.41	1956	2 4.97	20.32	1956	19.33	1957	2	20.08
F				1956	1 9.91				1956	1	21.26
M	13.01	1957	9.00	1949	3 10.37	16.73	1957	13.84	1949	3	15.13
A				1956	1 14.85				1956	1	17.97
M	20.30	1956	18.11	1957	2 19.21	17.88	1956	14.61	1957	2	16.25
J	28.70	1949	23.78	1956	3 26.96	17.61	1956	14.32	1949	3	15.66
J	27.43	1956	26.94	1957	2 27.18	18.35	1956	18.26	1957	2	18.31
A	27.85	1956	25.90	1948	2 26.88	18.62	1956	18.23	1948	2	18.42
S	25.30	1950	24.70	1950	2 25.00	18.23	1950	17.31	1950	2	17.77
O				1956	1 21.98				1956	1	20.17
N				1956	1 18.84				1956	1	19.72
D	10.40	1949	9.02	1955	4 9.59	19.78	1956	15.21	1949	4	17.40

Table 24.--Pamlico Sound, Wysocking Bay off Lone Tree Creek near Light 6, 1948-54

[Temperatures are °C. and salinities are p.p.t.]

Temperature

Salinity

Mo.	Max.	Year	Min.	Year	No.	\bar{x}	Max.	Year	Min.	Year	No.	\bar{x}
Surface												
J												
F												
M				1949	1	7.60				1949	1	11.96
A												
M				1953	1	23.20				1953	1	12.70
J	30.50	1949	25.20	1953	2	27.85	20.10	1954	12.63	1949	2	15.06
J												
A				1948	1	25.70				1948	1	18.50
S				1953	1	25.00				1953	1	16.70
O												
N				1949	1	11.50				1949	1	12.35
D												
Bottom												
J												
F												
M				1949	1	7.00				1949	1	12.68
A												
M												
J				1949	1	28.80				1949	1	12.92
J												
A				1948	1	25.70				1948	1	18.50
S												
O												
N				1949	1	11.20				1949	1	12.61
D												

Table 25.--Pamlico Sound, near Gull Shoal Light, 1949-56

Temperatures are °C. and salinities are p.p.t.

Temperature						Salinity					
No.	Max.	Year	Min.	Year	No. \bar{x}	Max.	Year	Min.	Year	No.	\bar{x}
Surface											
J	7.00	1952	6.20	1951	3 6.47	21.86	1952	19.54	1951	3	20.19
F	9.90	1951	8.90	1953	3 9.13	20.80	1951	20.10	1953	4	20.64
M	11.20	51/4	10.50	1954	3 10.97	19.60	1954	18.80	1951	3	19.27
A	19.40	1951	15.20	1953	4 18.18	19.54	1951	14.47	1952	4	17.81
M	22.00	1951	20.80	1952	2 21.40	17.17	1951	15.58	1952	2	16.38
J				1954	1 26.20				1954	1	20.10
J	28.30	1951	27.50	1951	2 27.90	19.60	1951	16.62	1951	2	18.11
A				1949	1 27.20	19.70	1949	14.70	1949	4	17.30
S				1951	1 24.20				1951	1	21.02
O	21.63	1956	14.60	1952	2 18.12	21.33	1956	19.90	1952	2	20.62
N											
D				1953	1 13.20				1953	1	21.60
Bottom											
J	7.50	1951	6.00	1951	2 6.75	21.09	1951	19.65	1951	2	20.37
F											
M											
A											
M											
J											
J											
A				1951	1 25.90				1949	1	14.80
S											
O				1956	1 21.58				1956	1	21.58
N											
D											

Table 26.--Pamlico Sound, Oliver Reef Light, 1948-56

[Temperatures are °C. and salinities are p.p.t.]

Temperature						Salinity					
Mo.	Max.	Year	Min.	Year	No. \bar{x}	Max.	Year	Min.	Year	No.	\bar{x}
Surface											
J	8.40	1953	3.46	1956	6 6.24	22.40	1953	18.40	1951	6	20.12
F	10.13	1956	7.80	1954	5 9.61	21.80	1953	18.40	1953	5	20.34
M	12.00	1951	8.50	1949	4 10.28	19.10	1953	15.30	1949	4	17.72
A	19.40	1952	15.29	1956	3 17.73	21.13	1956	15.39	1952	3	18.46
M	23.40	1953	20.35	1956	4 21.76	20.80	1954	19.01	1951	4	19.65
J	28.50	1949	23.79	1956	4 26.35	20.40	1954	17.00	1949	4	19.01
J	31.00	1952	27.53	1956	4 28.73	21.18	1956	19.11	1952	3	20.47
A	29.10	1952	27.35	1956	5 28.15	21.24	1956	19.60	1948	5	20.34
S	27.10	1950	24.20	1951	4 25.78	21.02	1951	16.80	1950	4	18.13
O	22.50	1953	14.10	1952	2 18.30	22.40	1953	19.81	1952	2	21.10
N				1950	1 20.50				1950	1	17.16
D	13.50	1953	9.29	1955	5 11.22	22.50	1953	15.00	1949	5	18.97
Bottom											
J	8.70	1951	3.52	1956	4 7.08	22.20	1951	20.90	1951	4	21.65
F				1956	1 10.29	21.23	1956	20.23	1956	2	20.23
M	8.68	1956	8.50	1949	3 8.59	18.31	1956	15.60	1949	2	16.96
A				1956	1 14.85				1956	1	29.45
M				1956	1 18.02				1956	1	29.63
J	26.30	1949	22.35	1956	2 24.32	22.92	1956	18.00	1949	2	20.46
J	28.30	1949	27.63	1956	2 27.96				1956	1	23.19
A	27.80	1948	27.35	1956	3 27.65	21.38	1956	20.50	1948	3	20.79
S	26.80	1950	26.80	1950	2 26.80	21.60	1950	21.60	1950	2	21.60
O											
N				1950	1 20.50				1950	1	17.52
D	12.20	1949	9.29	1955	3 10.96	21.40	1949	15.80	1949	3	19.08

Table 27.--Pamlico Sound, 1 $\frac{1}{4}$ mi. off N. Bluff Point, 1948-51

[Temperatures are °C. and salinities are p.p.t.]

Temperature					Salinity							
No.	Max.	Year	Min.	Year	No.	\bar{x}	Max.	Year	Min.	Year	No.	\bar{x}
Surface												
J				1951	1	6.10				1951	1	16.82
F												
M				1949	1	8.60				1949	1	14.15
A												
M												
J				1949	1	30.30				1949	1	11.92
J												
A				1948	1	25.80				1948	1	18.15
S				1950	1	26.00				1950	1	12.06
O												
N				1949	1	11.00				1949	1	11.77
D												
Bottom												
J				1951	1	5.90				1951	1	17.22
F												
M				1949	1	9.15				1949	1	15.16
A												
M												
J				1949	1	28.60				1949	1	13.56
J												
A				1948	1	25.80				1948	1	18.03
S				1950	1	25.50				1950	1	15.37
O												
N				1949	1	11.00				1949	1	13.73
D												

Table 28.--Pamlico Sound, Bluff Shoal Light, 1951-57

[Temperatures are °C. and salinities are p.p.t.]

Temperature						Salinity					
Mo.	Max.	Year	Min.	Year	No. \bar{x}	Max.	Year	Min.	Year	No.	\bar{x}
Surface											
J	9.00	1953	3.35	1956	6 6.70	22.40	1953	19.99	1957	6	20.80
F	10.10	1952	7.50	1954	7 9.06	22.29	1952	18.20	1953	7	20.04
M	13.18	1957	8.60	1952	7 10.82	19.20	1956	16.62	1957	7	18.19
A	19.20	1951	15.18	1956	5 16.86	20.40	1953	15.70	1952	5	18.45
M	25.40	1952	17.91	1957	9 22.28	19.90	1954	14.07	1957	10	17.42
J	27.10	1951	24.24	1956	6 26.31	20.90	1954	17.27	1952	5	19.12
J	31.00	1952	27.13	1956	5 28.87	21.71	1957	19.11	1952	5	20.58
A	29.30	1952	27.35	1956	6 28.24	22.52	1952	20.30	1952	6	21.17
S	24.50	1952	24.00	1951	3 24.23	21.94	1951	19.56	1952	3	20.84
O	23.80	1952	13.50	1952	8 19.74	22.52	1957	18.35	1952	7	20.74
N	18.74	1956	9.70	1951	4 12.04	20.95	1951	17.05	1951	4	18.32
D	13.00	1953	8.52	1955	5 11.01	20.21	1956	17.95	1955	5	19.36
Bottom											
J	6.87	1957	3.35	1956	2 5.11	20.52	1956	20.03	1957	2	20.28
F				1956	1 10.02				1956	1	23.24
M	13.19	1957	9.13	1956	2 11.16	19.60	1956	16.62	1957	2	18.11
A				1956	1 15.18				1956	1	18.13
M	20.68	1956	17.41	1957	2 19.04	18.33	1956	13.93	1957	2	16.13
J				1956	1 24.02				1956	1	19.52
J	28.13	1956	26.54	1957	2 27.34	24.31	1956	22.00	1957	2	23.16
A				1956	1 27.95				1956	1	22.59
S											
O	22.17	1955	17.70	1957	3 20.42	22.23	1956	23.21	1957	2	22.72
N				1956	1 18.84				1956	1	17.97
D	9.13	1955	8.52	1955	2 8.82	20.26	1956	17.92	1955	2	19.09

Table 29.--Pamlico Sound, Big Foot Slue, NW. of entrance at wreck, Ninefoot Shoal, NNW. Ocracoke, 1948-51

[Temperatures are °C. and salinities are p.p.t.]

Temperature						Salinity					
Mo.	Max.	Year	Min.	Year	No. \bar{x}	Max.	Year	Min.	Year	No.	\bar{x}
Surface											
J				1951	1 5.20				1951	1	21.00
F											
M				1949	1 9.00				1949	1	14.20
A				1949	1 17.70				1949	1	19.10
M				1951	1 22.50				1951	1	21.85
J	28.10	1949	20.20	1949	2 24.30	18.20	1949	16.60	1949	2	17.10
J											
A				1948	1 27.80				1948	1	21.80
S	26.90	1950	21.70	1949	3 24.77	22.40	1948	17.90	1949	3	19.57
O											
N				1950	1 20.10				1950	1	16.17
D	10.80	1949	8.80	1949	2 9.80	15.29	1949	14.90	1949	2	15.09
Bottom											
J				1951	1 5.50				1951	1	20.70
F											
M				1949	1 9.00				1949	1	14.20
A				1949	1 17.70				1949	1	19.10
M											
J	28.10	1949	20.10	1949	2 24.25	19.00	1949	18.40	1949	2	18.70
J											
A				1948	1 27.80				1948	1	23.70
S	27.20	1950	22.20	1949	3 25.03	23.20	48/50	19.20	1949	3	21.87
O											
N				1950	1 20.10				1950	1	16.29
D				1949	1 11.30				1949	1	17.45

Table 30.--Pamlico Sound, Ninefoot Shoal Light, 1951-56

[Temperatures are °C. and salinities are p.p.t.]

Temperature						Salinity					
Mo.	Max.	Year	Min.	Year	No. \bar{x}	Max.	Year	Min.	Year	No.	\bar{x}
Surface											
J	10.70	1952	3.24	1956	2 6.97	30.86	1952	16.98	1956	2	23.92
F	10.90	1951	10.68	1956	2 10.79	18.64	1956	10.90	1951	2	14.77
M				1956	1 9.18				1956	1	19.90
A				1956	1 16.02				1956	1	22.59
M	22.30	1951	20.79	1956	3 21.53	19.39	1951	18.87	1956	3	18.58
J				1956	1 21.96				1956	1	23.82
J	27.90	1951	27.03	1956	2 27.46	23.55	1951	22.61	1956	2	23.08
A	29.20	1951	27.60	1953	3 28.13	23.78	1956	21.60	1951	4	22.72
S				1951	1 23.70				1951	1	23.35
O											
N	9.80	1951	9.80	1951	2 9.80	23.38	1951	23.28	1951	2	23.33
D											
Bottom											
J				1956	1 3.74				1956	1	19.67
F				1956	1 10.57				1956	1	19.49
M				1956	1 8.91				1956	1	21.15
A				1956	1 15.91				1956	1	23.04
M				1956	1 20.79				1956	1	18.77
J				1956	1 21.96				1956	1	24.29
J				1956	1 27.13				1956	1	23.04
A				1956	1 28.05				1956	1	23.64
S											
O											
N											
D											

Table 31.--Pamlico Sound, N-12 buoy off Silver Lake, 1949-59

[Temperatures are °C. and salinities are p.p.t.]

Temperature						Salinity					
Mo.	Max.	Year	Min.	Year	No. \bar{x}	Max.	Year	Min.	Year	No. \bar{x}	
Surface											
J											
F											
M	12.22	1959	8.05	1949	2 10.14	18.39	1959	13.87	1949	2 16.13	
A	17.85	1949	14.00	1956	2 15.93	22.05	1949	20.44	1956	2 21.25	
M				1952	1 20.50				1952	1 18.34	
J	28.30	1949	20.40	1949	2 24.35	23.40	1949	20.55	1949	3 23.39	
J											
A				1953	1 27.20				1953	1 26.70	
S				1949	1 23.20				1949	1 31.40	
O											
N											
D											
Bottom											
J											
F											
M				1949	1 8.00				1949	1 12.59	
A				1949	1 16.80				1949	1 33.20	
M											
J	27.90	1949	20.30	1949	2 24.10	29.05	1949	20.91	1949	3 24.49	
J											
A											
S				1949	1 23.10				1949	1 33.00	
O											
N											
D											

Table 32.--Ocracoke Inlet, 1948-56

[Temperatures are °C. and salinities are p.p.t.]

Temperature						Salinity					
Mo.	Max.	Year	Min.	Year	No. \bar{x}	Max.	Year	Min.	Year	No.	\bar{x}
Surface											
J	8.50	1952	5.57	1956	3 6.76	29.20	1951	22.10	1951	3	25.12
F	11.85	1956	10.80	1951	3 11.30	23.50	1951	22.50	1951	3	23.09
M	11.95	1959	9.00	1949	3 10.53	30.32	1956	15.17	1949	3	20.91
A	16.57	1956	9.20	1949	5 14.19	33.13	1956	23.98	1956	5	28.78
M	23.40	1951	17.68	1956	2 20.54	31.13	1956	23.07	1951	2	27.10
J	29.80	1949	20.60	1949	3 24.42	35.21	1956	19.00	1949	3	25.14
J	29.00	1949	27.10	1949	3 28.01	27.72	1956	22.90	1949	2	25.31
A	29.90	1951	27.80	1948	5 28.57	35.80	1953	21.30	1948	6	25.94
S	25.80	1950	23.10	1949	4 24.10	33.80	1949	25.00	1950	4	29.99
O	23.74	1955	17.30	1952	2 20.52				1952	1	31.96
N				1950	1 21.40				1950	1	27.00
D	17.60	1948	11.90	1949	3 14.47	30.90	1948	18.30	1949	3	25.53
Bottom											
J	7.20	1951	6.24	1956	2 6.72	29.40	1956	23.12	1951	2	26.26
F				1956	1 11.41				1951	1	25.26
M	10.84	1956	9.80	1949	2 10.32	31.53	1956	19.65	1949	2	25.59
A				1956	1 15.46				1956	1	33.22
M				1956	1 17.74				1956	1	31.13
J	29.40	1949	22.74	1956	2 26.07	35.29	1956	22.10	1949	2	28.74
J	28.70	1949	28.13	1956	2 28.42	29.25	1956	22.90	1949	2	26.08
A	28.65	1956	27.80	1948	2 28.22	28.64	1956	23.70	1948	2	26.17
S	25.70	1950	23.10	1949	2 24.40	35.10	1949	25.90	1950	2	30.50
O				1955	1 23.74						
N				1950	1 21.40				1950	1	27.70
D	17.70	1948	12.00	1949	3 15.07	31.20	1948	20.97	1949	3	26.89

Table 33.--Pamlico Sound, Swanquarter Narrows, off tower, 1948-56

(Temperatures are °C. and salinities are p.p.t.)

Temperature						Salinity					
Mo.	Max.	Year	Min.	Year	No. \bar{x}	Max.	Year	Min.	Year	No. \bar{x}	
Surface											
J	8.70	1953	5.80	1951	6 7.17	18.68	1952	16.40	1951	6 17.18	
F	10.70	1951	8.40	1953	6 10.13	18.30	1951	15.20	1953	6 16.53	
M	11.00	1951	7.05	1949	6 9.94	17.80	1951	9.64	1949	6 13.83	
A				1951	1 18.20				1951	1 15.05	
M	22.50	1951	20.00	1952	4 21.22	15.24	1951	10.52	1952	4 13.64	
J	30.40	1949	25.90	1948	5 27.38	23.20	1949	11.43	1948	4 16.67	
J	28.00	1948	27.50	1951	2 27.75	16.52	1951	15.50	1948	2 16.01	
A	29.20	1951	26.40	1950	5 27.30	17.70	1948	11.15	1950	4 14.45	
S	28.10	1950	21.50	1956	3 24.73	19.47	1948	13.00	1950	3 16.99	
O	21.50	1953	12.30	1952	5 17.78	19.40	1948	13.50	1949	5 17.39	
N	20.80	1950	8.40	1951	3 12.15	18.64	1951	<15.50	1950	4 15.39	
D	13.60	1953	9.60	1952	3 12.00	18.70	1953	15.67	1952	3 17.26	
Bottom											
J				1951	1 6.10				1951	1 16.40	
F											
M				1949	1 6.95				1949	1 9.89	
A											
M											
J	30.40	1949	25.90	1948	3 27.40	23.60	1949	11.30	1948	2 17.45	
J											
A	27.40	1949	26.50	1948	2 26.95	17.20	1948	11.30	1949	3 15.23	
S	26.20	1950	24.40	1948	2 25.30	19.99	1948	13.40	1950	2 16.69	
O	20.20	1949	18.70	1948	2 19.45	19.80	1948	13.80	1948	2 16.80	
N	20.80	1950	11.00	1949	2 15.90	<15.50	1950	10.51	1949	2 13.01	
D											

Table 34.--Pamlico Sound, midway between Inner Middle and Great Island Lights, 1955-61

[Temperatures are °C. and salinities are p.p.t.]

Temperature						Salinity					
Mo.	Max.	Year	Min.	Year	No. \bar{x}	Max.	Year	Min.	Year	No. \bar{x}	
Surface											
J	5.50	1961	3.18	1956	2 4.34	16.17	1961	16.06	1956	2 16.12	
F	10.71	1959	2.00	1961	6 7.03	17.25	1961	11.09	1960	6 14.46	
M	13.30	1961	3.49	1960	7 10.10	15.41	1961	9.43	1960	7 12.81	
A	14.67	1956	12.00	1961	2 13.34	13.53	1961	13.03	1956	2 13.28	
M	24.94	1959	21.41	1956	3 22.90	14.70	1956	9.00	1958	3 12.32	
J	27.69	1959	24.10	1960	6 25.48	16.87	1959	9.42	1958	6 14.20	
J	29.08	1959	27.37	1958	3 28.36	17.14	1956	12.36	1958	3 15.03	
A	28.90	1958	25.30	1960	6 27.89	17.57	1956	13.51	1958	6 14.92	
S	24.51	1957	20.60	1960	2 22.55	22.56	1957	18.39	1960	2 20.48	
O	19.89	1957	15.20	1960	5 18.43	22.07	1957	15.41	1960	5 18.11	
N	13.85	1957	11.60	1960	4 12.41	21.73	1957	15.66	1960	4 19.10	
D	10.06	1959	2.60	1960	6 7.50	19.25	1957	15.41	1955	6 16.67	
Bottom											
J	5.50	1961	3.46	1956	2 4.48	16.31	1961	16.04	1956	2 16.18	
F	9.57	1956	1.90	1961	6 6.78	17.54	1961	11.24	1960	6 15.03	
M	13.10	1961	3.39	1960	7 9.50	16.11	1956	10.17	1960	7 14.12	
A	14.46	1956	11.80	1961	2 11.13	14.78	1956	13.66	1961	2 14.22	
M	23.84	1959	21.24	1956	3 22.61	14.81	1956	9.13	1958	3 12.38	
J	27.39	1959	23.80	1960	6 25.39	16.85	1959	9.38	1958	6 14.33	
J	28.03	1956	27.68	1959	3 27.83	17.47	1956	12.38	1958	3 15.54	
A	29.03	1958	24.00	1960	6 27.71	18.03	1956	14.47	1958	6 15.97	
S	24.91	1957	21.00	1960	2 22.96	22.56	1957	17.25	1960	2 19.91	
O	19.70	1960	15.10	1960	5 17.52	23.33	1957	14.89	1960	5 18.66	
N	11.66	1957	13.75	1957	4 12.66	21.76	1957	16.80	1960	4 19.44	
D	10.61	1958	3.10	1960	6 7.89	20.19	1957	15.46	1955	4 17.20	

Table 35.--Pamlico Sound, Inner Middle Light, 1951-66

[Temperatures are °C. and salinities are p.p.t.]

Temperature					Salinity							
Mo.	Max.	Year	Min.	Year	No.	\bar{x}	Max.	Year	Min.	Year	No.	\bar{x}
Surface												
J				1952	1	6.20				1952	1	19.99
F	10.70	1951	3.47	1965	4	7.50	16.65	1951	15.09	1964	4	16.08
M	11.50	1966	5.24	1965	4	9.34	19.00	1951	13.64	1966	4	15.64
A	21.15	1964	13.93	1965	4	18.32	14.29	1966	12.11	1964	4	13.26
M	21.89	1966	19.80	1954	3	20.99	16.30	1954	14.18	1966	3	15.51
J	26.50	1951	24.45	1965	4	26.46	17.54	1951	11.00	1964	4	14.66
J	27.84	1957	24.71	1965	4	25.70	19.80	1964	13.43	1963	4	16.52
A	29.20	1951	23.70	1965	4	26.84	20.24	1964	14.23	1965	4	17.98
S	27.00	1953	18.75	1965	3	22.73	18.00	1953	15.93	1965	3	17.07
O	24.30	1952	14.21	1964	3	18.84	18.80	1965	13.98	1964	3	16.97
N				1951	1	9.90				1951	1	18.59
D	12.80	1953	7.22	1964	6	9.11	19.22	1965	14.63	1964	6	17.06
Bottom												
J												
F	6.99	1964	3.52	1965	2	5.26	16.84	1965	15.73	1964	2	16.29
M	11.49	1966	5.20	1965	2	8.35	11.78	1965	14.18	1966	2	14.63
A	18.70	1966	13.49	1965	3	16.79	14.51	1964	13.96	1965	3	14.25
M	21.80	1966	19.68	1965	2	20.74	16.43	1965	16.10	1966	2	16.27
J	24.25	1965	23.25	1964	2	23.75	16.23	1965	16.00	1964	2	16.12
J	27.94	1957	25.01	1965	4	25.93	19.88	1964	15.79	1963	4	17.00
A	25.45	1964	23.90	1965	3	24.68	20.27	1965	15.18	1964	2	17.73
S	20.32	1964	20.23	1965	2	20.28	20.83	1964	19.13	1965	2	19.98
O	18.22	1965	13.25	1964	2	15.74	19.70	1965	17.96	1964	2	18.83
N												
D	9.56	1965	7.25	1964	4	8.26	21.37	1965	17.53	1964	4	18.66

Table 36.--Pamlico Sound, midway between Lower Middle and Brant Island Shoal Lights, 1955-59

[Temperatures are °C. and salinities are p.p.t.]

Temperature					Salinity							
Mo.	Max.	Year	Min.	Year	No.	\bar{x}	Max.	Year	Min.	Year	No.	\bar{x}
Surface												
J				1956	1	3.18				1956	1	17.52
F				1956	1	9.63				1956	1	16.46
M				1956	1	10.13				1956	1	16.67
A	14.63	1956	14.61	1959	2	14.62	15.91	1956	13.28	1959	2	14.60
M				1956	1	21.41				1956	1	15.55
J												
J				1956	1	28.73				1956	1	19.74
A				1956	1	28.65				1956	1	19.72
S												
O												
N												
D				1955	1	9.07				1955	1	16.82
Bottom												
J				1956	1	3.63				1956	1	17.52
F				1956	1	9.18				1956	1	16.64
M				1956	1	9.41				1956	1	17.07
A	15.41	1959	14.63	1956	2	15.02	16.49	1959	16.17	1956	2	16.33
M				1956	1	20.85				1956	1	15.73
J												
J				1956	1	28.03				1956	1	19.54
A				1956	1	27.90				1956	1	20.13
S												
O												
N												
D				1955	1	9.07				1955	1	16.89

Table 37.--Pamlico Sound, Brant Island Blue Light, 1949-65

[Temperatures are °C. and salinities are p.p.t.]

Temperature						Salinity					
Mo.	Max.	Year	Min.	Year	No. \bar{x}	Max.	Year	Min.	Year	No.	\bar{x}
Surface											
J	6.80	1952	3.52	1956	6 5.23	18.24	1952	9.25	1958	6	14.57
F	11.00	1953	1.90	1961	13 7.68	18.89	1952	10.32	1960	13	15.16
M	11.13	1959	3.79	1960	13 10.72	15.40	1954	7.27	1960	13	13.25
A	29.60	1951	12.30	1961	9 18.34	15.90	1951	10.37	1964	8	13.09
M	24.00	1953	20.60	1952	10 22.26	16.41	1957	10.07	1958	10	13.43
J	28.80	1952	23.80	1960	10 26.11	18.59	1959	11.18	1958	9	14.20
J	30.60	1952	24.64	1965	9 27.24	20.14	1956	11.18	1958	9	15.16
A	29.30	1951	25.60	1960	11 27.96	19.69	1956	12.94	1958	14	16.68
S	26.40	1964	19.45	1965	10 23.52	26.00	1950	13.42	1960	11	18.66
O	25.20	1952	16.40	1960	12 19.56	21.00	1957	13.24	1960	12	16.54
N	14.35	1963	8.80	1951	7 12.47	21.02	1957	11.94	1959	7	16.93
D	11.20	1952	6.60	1957	10 8.68	19.16	1965	13.78	1964	10	16.38
Bottom											
J	6.28	1958	3.63	1956	5 4.85	17.99	1961	10.54	1958	5	14.34
F	10.11	1959	1.90	1961	8 6.75	16.67	1961	12.63	1960	8	14.87
M	13.61	1959	4.19	1960	9 9.83	16.46	1961	9.24	1960	9	13.54
A	18.48	1966	12.60	1961	6 15.83	15.41	1956	12.18	1965	6	13.81
M	24.04	1959	20.48	1965	6 21.90	16.44	1966	10.30	1958	6	12.98
J	26.40	1949	23.20	1964	8 24.83	21.04	1959	11.20	1958	7	15.52
J	28.33	1956	24.00	1965	8 26.36	20.03	1956	11.53	1958	8	15.26
A	29.07	1958	24.41	1965	11 27.40	19.52	1956	15.75	1958	11	17.07
S	24.01	1957	19.45	1965	7 22.16	22.38	1957	14.20	1960	7	18.57
C	23.13	1958	16.40	1960	10 18.62	23.17	1957	13.96	1960	10	17.39
N	14.84	1959	12.06	1957	6 13.47	21.22	1957	14.76	1959	6	18.17
D	11.06	1959	6.82	1965	9 8.96	20.07	1957	15.39	1955	9	17.44

Table 38.--Pamlico Sound, Brant Island Shoal Light (tower), 1949-66

[Temperatures are °C. and salinities are p.p.t.]

Temperature						Salinity					
Mo.	Max.	Year	Min.	Year	No. \bar{x}	Max.	Year	Min.	Year	No.	\bar{x}
Surface											
J	9.00	1953	3.11	1956	3 5.98	18.96	1957	9.07	1958	10	15.12
F	9.18	1956	2.76	1961	8 6.67	18.66	1961	12.85	1960	12	12.78
M	20.16	1960	3.89	1960	13 11.61	19.90	1954	7.76	1960	19	14.64
A	21.18	1964	12.36	1961	10 16.61	17.94	1951	11.12	1964	11	14.69
M	24.94	1959	18.21	1957	8 21.90	18.80	1954	13.69	1965	10	16.67
J	27.99	1959	21.66	1960	11 24.76	19.63	1959	10.50	1958	13	15.02
J	30.28	1959	26.60	1964	11 27.21	21.12	1964	11.55	1958	19	17.11
A	29.55	1956	25.66	1960	12 27.94	21.53	1964	14.79	1958	9	17.31
S	25.30	1958	19.84	1965	7 22.23	20.81	1956	14.52	1960	7	16.59
O	23.17	1955	13.73	1964	11 17.36	23.59	1957	10.90	1964	26	18.88
N	18.74	1956	11.60	1960	6 13.99	21.33	1957	14.96	1960	10	19.30
D	10.76	1959	3.36	1960	12 7.95	20.16	1965	14.33	1949	17	16.92
Bottom											
J	5.90	1961	3.79	1956	2 4.84	18.91	1957	5.90	1961	3	14.31
F	9.46	1956	2.80	1961	7 6.19	18.12	1961	7.38	1960	11	14.49
M	20.10	1960	3.99	1960	11 11.13	17.38	1961	8.60	1960	15	13.92
A	18.58	1966	12.30	1961	6 15.57	16.82	1956	7.08	1961	7	13.71
M	24.74	1959	17.51	1957	6 20.96	17.17	1966	15.52	1959	4	16.35
J	26.89	1959	21.10	1960	9 24.39	19.36	1959	11.91	1958	9	18.63
J	28.38	1959	24.63	1958	11 26.68	22.97	1957	9.94	1958	13	18.16
A	29.50	1958	25.50	1965	9 27.39	22.63	1964	14.78	1958	9	17.87
S	25.10	1958	19.57	1965	6 20.57	22.51	1965	15.07	1960	7	18.65
O	22.79	1955	13.04	1964	10 17.73	23.80	1957	13.16	1964	13	17.56
N	14.35	1957	12.30	1960	5 13.10	22.68	1957	7.00	1960	8	16.74
D	10.96	1959	3.60	1960	12 11.84	21.16	1964	14.51	1960	13	17.97

Table 39.--Pamlico Sound, Brant Island Shoal Light (N. of tower) 1963-66

[Temperatures are °C. and salinities are p.p.t.]

Temperature						Salinity					
Mo.	Max.	Year	Min.	Year	No. \bar{x}	Max.	Year	Min.	Year	No.	\bar{x}
Surface											
J											
F	7.83	1964	3.66	1965	2 5.74	16.55	1965	15.97	1964	2	16.26
M				1966	1 11.48				1966	1	14.34
A	21.37	1964	18.72	1966	2 20.05	14.40	1966	11.57	1964	2	12.99
M	21.84	1966	21.62	1965	2 21.73	16.10	1966	13.82	1965	2	14.96
J				1964	1 20.50				1966	1	13.30
J	25.35	1963	24.58	1965	3 25.06	20.10	1964	14.48	1963	3	16.70
A	26.70	1963	24.19	1965	3 25.49	21.24	1964	15.67	1965	3	18.16
S	22.23	1964	19.84	1965	2 21.04	20.08	1965	16.30	1964	2	18.19
O	17.68	1965	13.56	1964	2 15.62	17.94	1965	12.64	1964	2	15.29
N											
D	9.29	1965	7.55	1965	4 8.32	20.00	1965	14.76	1964	4	17.31
Bottom											
J											
F	7.10	1964	3.48	1965	2 5.29	17.00	1965	16.28	1964	2	16.64
M				1966	1 11.71				1966	1	15.48
A	18.72	1966	17.98	1964	2 18.35	15.20	1964	14.40	1966	2	14.80
M	21.70	1966	18.55	1965	2 20.13	17.61	1966	15.76	1965	2	16.69
J				1966	1 20.30				1966	1	19.20
J	25.65	1963	24.86	1964	3 25.20	21.51	1964	14.57	1963	3	17.55
A	26.45	1963	24.47	1965	3 25.48	21.54	1964	18.10	1963	3	19.31
S	20.13	1964	19.84	1965	2 19.99	21.34	1964	20.08	1965	2	20.71
C	18.41	1965	13.06	1964	2 15.74	20.41	1965	17.38	1964	2	18.89
N											
D	10.57	1965	7.16	1964	4 8.52	23.34	1964	18.50	1964	4	20.62

Table 40.--Pamlico Sound, Royal Shoal, NW. Point, 1949-53

[Temperatures are °C. and salinities are p.p.t.]

Temperature						Salinity					
Mo.	Max.	Year	Min.	Year	No. \bar{x}	Max.	Year	Min.	Year	No.	\bar{x}
Surface											
J				1952	1 6.40				1952	1	19.50
F	10.40	1953	10.10	1952	2 10.25	19.96	1952	18.00	1953	2	18.98
M				1953	1 11.90				1953	1	17.00
A	17.90	1949	15.30	1953	2 16.60	16.70	1953	15.20	1949	2	15.95
M				1952	1 24.70				1952	1	16.62
J				1952	1 27.10				1952	1	16.76
J	31.20	1952	27.80	1949	2 29.50				1952	1	17.57
A											
S	24.30	1952	21.80	1949	2 23.05	20.28	1952	16.86	1949	2	18.57
O	20.10	1949	7.40	1949	2 13.75	15.35	1949	14.80	1949	2	15.08
N											
D				1949	1 10.70				1949	1	14.02
Bottom											
J											
F											
M											
A				1949	1 17.50				1949	1	15.40
M											
J											
J				1949	1 27.60						
A											
S				1949	1 21.90				1949	1	17.35
O	19.40	1949	7.90	1949	2 13.65	16.90	1949	15.26	1949	2	16.08
N											
D				1949	1 10.70				1949	1	14.02

Table 41.--Pamlico Sound, Royal Shoal, SW. Point Light 22, 1948-66

[Temperatures are °C. and salinities are p.p.t.]

Temperature

Salinity

Mo.	Max.	Year	Min.	Year	No.	\bar{x}	Max.	Year	Min.	Year	No.	\bar{x}
Surface												
J	6.70	1952	3.96	1956	2	5.33	19.78	1952	16.91	1956	2	18.34
F	11.67	1956	3.82	1965	4	8.35	19.10	1951	16.46	1956	4	17.51
M	11.72	1966	9.52	1956	5	10.74	18.37	1956	16.98	1966	4	17.42
A	20.73	1964	13.00	1956	4	15.67	18.06	1956	16.25	1964	4	16.63
M	22.10	1951	20.74	1956	4	21.40	19.56	1951	15.10	1965	4	17.83
J				1956	1	23.07				1956	1	20.35
J	28.23	1956	25.03	1958	3	26.22	22.90	1956	14.83	1958	3	18.59
A	29.30	1951	26.40	1948	4	28.07	23.51	1956	19.16	1963	3	21.54
S	24.40	1951	22.30	1964	2	23.35	22.61	1951	17.80	1964	2	20.21
O	22.41	1955	13.50	1952	5	18.00	23.64	1957	19.49	1958	4	21.41
N				1963	1	13.45				1963	1	19.07
D	10.08	1965	7.50	1964	4	8.33	21.04	1965	16.53	1964	4	18.47
Bottom												
J				1956	1	3.63				1956	1	16.92
F	11.52	1956	3.84	1965	3	7.64	19.43	1956	16.85	1964	3	18.02
M	11.45	1956	9.54	1959	3	10.47	25.97	1956	18.33	1959	3	21.45
A	18.95	1964	14.91	1956	2	16.93	18.56	1956	18.53	1964	2	18.54
M	21.31	1966	20.10	1965	3	20.66	20.77	1966	15.24	1965	3	18.20
J				1956	1	23.13				1956	1	35.24
J	28.23	1956	23.93	1958	3	25.62	27.32	1956	20.24	1963	3	23.27
A	27.90	1956	27.10	1963	2	27.50	25.82	1956	16.18	1963	3	21.75
S				1964	1	21.52				1964	1	20.50
O	21.57	1955	17.14	1965	4	19.05	21.14	1957	19.36	1958	3	21.87
N				1963	1	12.03				1963	1	21.18
D	9.06	1965	7.82	1964	3	8.29	23.99	1965	20.63	1964	3	21.03

Table 42.--Pamlico Sound, Hodges Reef Light, 1½ mi. NW., 1948-59

[Temperatures are °C. and salinities are p.p.t.]

Temperature					Salinity							
Mo.	Max.	Year	Min.	Year	No.	\bar{x}	Max.	Year	Min.	Year	No.	\bar{x}
Surface												
J	5.30	1950	5.30	1951	2	5.30	18.33	1950	18.30	1951	2	18.32
F												
M	11.11	1959	9.30	1949	2	10.20	14.58	1959	12.59	1949	2	13.59
A	18.10	1949	11.80	1957	3	14.37	17.34	1957	14.60	1949	3	16.26
M												
J	29.50	1949	21.00	1949	2	25.25	20.44	1949	14.80	1949	2	17.47
J												
A				1948	1	26.20				1948	1	22.83
S	26.20	1950	21.70	1949	2	23.95	19.50	1949	14.65	1950	2	17.08
O				1949	1	20.80				1949	1	15.89
N	21.20	1950	21.20	1950	2	21.20	15.61	1950	15.60	1950	2	15.60
D				1949	1	10.80				1949	1	13.51
Bottom												
J	5.70	1950	5.70	1951	2	5.70	18.50	1951	18.46	1950	2	18.48
F												
M				1949	1	9.25				1949	1	12.59
A				1949	1	18.60				1949	1	26.50
M												
J	28.30	1949	20.80	1949	2	24.55	24.88	1949	20.26	1949	2	22.57
J												
A				1948	1	26.20				1948	1	22.47
S	26.30	1950	21.60	1949	2	23.95	19.70	1949	16.44	1950	2	18.07
O				1949	1	20.30				1949	1	17.57
N	20.80	1950	20.80	1950	2	20.80	15.84	1950	15.80	1950	2	15.82
D				1949	1	10.70				1949	1	13.51

Table 43.--Pamlico Sound, Wainwright Slue at Light 2, 1951-59

[Temperatures are °C. and salinities are p.p.t.]

Temperature						Salinity					
Mo.	Max.	Year	Min.	Year	No. \bar{x}	Max.	Year	Min.	Year	No.	\bar{x}
Surface											
J	9.30	1953	3.63	1956	3 6.08	20.68	1952	16.17	1956	3	18.08
F	10.91	1956	9.00	1954	4 10.03	19.68	1952	15.95	1956	4	17.41
M	12.10	1953	9.63	1956	4 11.18	19.50	1951	16.04	1959	4	17.14
A	14.96	1956	11.80	1957	3 13.62	18.28	1957	16.83	1956	3	17.54
M	23.10	1952	19.20	1954	4 21.38	22.55	1952	16.26	1952	4	18.78
J	27.80	1952	21.96	1956	6 25.18	34.94	1952	22.72	1956	6	28.54
J	31.60	1952	24.83	1958	4 28.32	24.99	1956	15.07	1958	4	19.76
A	30.00	1953	28.35	1956	3 29.25	22.90	1956	17.48	1958	3	20.46
S	23.20	1951	22.80	1952	2 23.00	23.07	1951	21.62	1952	2	22.34
O											
N											
D	13.60	1953	9.40	1952	2 11.50	20.60	1953	19.05	1952	2	19.83
Bottom											
J				1956	1 3.85				1956	1	16.67
F				1956	1 11.29				1956	1	16.91
M				1956	1 9.63				1956	1	17.12
A				1956	1 15.41				1956	1	23.75
M				1956	1 21.07				1956	1	19.76
J	25.74	1956	21.41	1956	2 23.58	24.90	1956	24.42	1956	2	24.66
J	28.83	1956	24.33	1958	3 24.91	20.90	1956	15.17	1958	2	18.04
A	28.70	1958	27.85	1956	2 28.28	22.11	1956	20.46	1958	2	21.29
S											
O											
N											
D											

Table 44.--Pamlico Sound, West Bay Light, 1951-61

[Temperatures are °C. and salinities are p.p.t.]

Temperature					Salinity							
No.	Max.	Year	Min.	Year	No.	\bar{x}	Max.	Year	Min.	Year	No.	\bar{x}
Surface												
J	5.90	1961	3.41	1956	2	4.46				1961	1	16.55
F	10.41	1956	2.00	1961	3	6.57	18.15	1961	14.85	1956	3	16.00
M	14.20	1961	4.39	1960	5	10.53	14.81	1956	10.43	1960	5	13.05
A				1956	1	14.74				1956	1	16.00
M	24.94	1959	21.79	1956	2	23.37	17.90	1956	16.89	1959	2	17.39
J	28.19	1959	24.30	1960	5	25.90	16.89	1959	12.34	1960	5	16.27
J	28.73	1956	25.83	1958	3	27.44	20.66	1956	11.39	1958	3	15.04
A	29.80	1960	25.00	1960	6	27.35	22.11	1960	15.39	1960	6	16.90
S	27.60	1958	20.80	1960	4	24.28	18.30	1958	15.61	1960	4	16.84
O	20.19	1957	15.30	1960	4	18.37	21.46	1957	12.97	1960	4	17.45
N	12.72	1959	8.80	1951	3	11.11	18.72	1959	14.43	1960	3	16.23
D	10.76	1959	3.00	1960	4	8.04	16.42	1960	11.98	1960	4	15.94
Bottom												
J	6.00	1961	3.35	1956	2	4.68	16.85	1961	15.99	1956	2	16.42
F	10.41	1956	2.00	1961	3	6.64	18.43	1961	15.14	1960	3	16.63
M	11.50	1961	4.49	1960	4	8.81	17.32	1961	11.13	1960	4	15.08
A				1956	1	14.68				1956	1	16.20
M	24.24	1959	21.35	1956	2	22.79	19.34	1959	17.25	1956	2	18.29
J	26.39	1959	23.90	1960	5	25.24	23.18	1959	14.74	1960	5	18.18
J	28.23	1956	24.23	1958	3	26.71	27.77	1956	11.19	1958	3	17.86
A	29.07	1959	23.80	1960	6	26.79	26.83	1960	15.88	1960	6	19.67
S	25.50	1958	19.90	1960	4	23.15	24.13	1958	16.83	1960	4	19.13
O	20.10	1960	15.60	1960	4	18.27	22.18	1957	14.20	1960	4	18.83
N	12.80	1960	12.32	1959	2	12.56	17.04	1960	16.02	1959	2	16.53
D	11.11	1959	3.10	1960	4	8.30	18.01	1958	16.96	1960	4	17.50

Table 45.--Pamlico Sound, West Bay, 1949-60

[Temperatures are °C. and salinities are p.p.t.]

Temperature						Salinity					
No.	Max.	Year	Min.	Year	No. \bar{x}	Max.	Year	Min.	Year	No.	\bar{x}
Surface											
J											
F	12.80	1952	12.80	1952	2 12.80	17.56	1952	17.38	1952	2	17.67
M	16.00	1952	8.70	1952	30 11.07	23.04	1956	7.38	1960	30	15.04
A	25.20	1953	13.02	1956	3 17.67	11.16	1956	13.60	1953	3	13.93
M	29.00	1953	27.60	1956	2 28.30	17.00	1953	12.70	1956	2	14.85
J	27.60	1953	27.00	1953	2 27.30	15.80	1953	11.20	1953	2	13.50
J				1953	1 34.00				1953	1	12.30
A	29.70	1951	28.20	1953	2 28.95	18.30	1953	17.80	1951	2	18.07
S	31.60	1953	22.60	1956	3 26.10	20.90	1956	16.96	1958	3	18.62
O											
N											
D	10.30	1957	7.00	1949	7 9.00	15.79	1957	11.38	1949	7	13.69

Bottom

J											
F											
M				1960	1 8.58				1960	1	8.51
A											
M											
J											
J											
A											
S				1958	1 25.00				1958	1	16.71
O											
N											
D				1949	1 6.90				1949	1	12.12

Table 46.--Pamlico River, Pamlico Point Light, 1955-66

[Temperatures are °C. and salinities are p.p.t.]

Temperature						Salinity					
Mo.	Max.	Year	Min.	Year	No. \bar{x}	Max.	Year	Min.	Year	No.	\bar{x}
Surface											
J	6.88	1958	3.52	1956	2 5.20	14.63	1956	5.92	1958	2	10.28
F	10.41	1956	3.44	1965	5 6.54	14.00	1956	11.06	1958	5	12.64
M	13.22	1966	5.67	1965	3 9.62	13.03	1965	11.67	1966	3	12.30
A	20.47	1964	10.48	1965	5 15.87	11.94	1966	9.22	1964	5	10.48
M	22.53	1966	20.80	1965	5 21.46	13.21	1956	10.50	1965	5	11.23
J	25.60	1964	24.07	1965	3 24.91	14.47	1956	7.10	1964	3	11.80
J	29.13	1956	25.05	1963	4 26.39	14.60	1964	10.16	1963	4	12.20
A	25.60	1964	23.55	1965	2 24.57	14.91	1964	11.51	1965	2	13.21
S	22.70	1956	19.45	1965	3 21.42	17.47	1956	13.87	1964	3	15.77
O	22.91	1955	14.11	1964	4 18.07	19.85	1957	6.60	1955	4	12.15
N	14.75	1965	12.26	1957	2 13.50	21.28	1957	16.50	1965	2	18.94
D	9.90	1965	7.05	1964	4 8.13	18.68	1965	12.57	1964	5	14.82
Bottom											
J	7.18	1958	3.18	1956	2 5.18	17.61	1956	8.18	1958	2	12.89
F	9.85	1956	3.24	1965	5 6.22	15.30	1965	13.64	1965	5	14.61
M	11.95	1966	5.57	1965	3 8.99	13.58	1965	11.68	1966	3	12.81
A	18.38	1966	10.30	1965	5 15.32	13.08	1965	10.42	1965	5	11.87
M	22.47	1966	20.21	1965	5 21.07	13.35	1956	10.82	1966	5	11.64
J	24.91	1956	23.45	1965	3 23.94	14.63	1956	11.70	1964	3	13.31
J	28.13	1956	25.37	1964	4 25.91	17.48	1956	10.66	1965	4	14.09
A	25.07	1964	24.40	1965	2 24.74	19.50	1964	12.95	1965	2	16.23
S	23.00	1956	19.45	1965	3 20.75	20.17	1964	16.07	1965	3	18.70
O	21.96	1955	12.90	1964	4 17.80	21.74	1957	14.30	1964	3	18.31
N	14.69	1965	12.26	1957	2 13.48	21.49	1957	16.50	1965	2	18.99
D	9.90	1965	7.25	1965	5 8.71	19.06	1965	13.22	1964	5	16.20

Table 47.--Pamlico River, NW. Pamlico Point Light, 1941-51

[Temperatures are °C. and salinities are p.p.t.]

Temperature						Salinity					
No.	Max.	Year	Min.	Year	No. \bar{x}	Max.	Year	Min.	Year	No.	\bar{x}
Surface											
J	10.50	1949	5.50	1950	2 8.00	11.85	1950	7.65	1949	2	9.75
F				1950	1 12.40				1950	1	11.57
M	11.30	1951	8.80	1949	2 10.05	13.55	1951	4.87	1949	2	9.21
A											
M											
J				1949	1 29.70				1949	1	5.84
J	28.80	1949	27.90	1951	2 28.35	14.23	1951	6.22	1949	2	10.22
A	30.00	1951	26.80	1949	4 28.00	16.40	1949	8.00	1949	3	12.13
S				1950	1 26.40				1950	1	8.16
O	21.60	1951	19.00	1949	2 20.30	15.61	1951	10.28	1949	2	12.94
N				1949	1 10.10				1949	1	9.34
D									1948	1	3.41
Bottom											
J	8.60	1949	5.70	1950	2 7.15	13.62	1950	13.08	1949	2	13.35
F											
M				1941	1 9.40				1949	1	7.68
A											
M				1949	1 15.40				1949	1	15.40
J				1949	1 27.40				1949	1	11.13
J				1949	1 27.40				1949	1	23.06
A	28.00	1949	26.30	1949	3 26.86	15.40	1949	8.25	1949	3	12.82
S				1950	1 25.30				1950	1	12.07
O				1949	1 19.70				1949	1	11.12
N				1949	1 10.30				1949	1	10.74
D									1948	1	16.00

Table 48.--Pamlico River, Wades Point Light, 1952-66

[Temperatures are °C. and salinities are p.p.t.]

Temperature						Salinity					
Mo.	Max.	Year	Min.	Year	No. \bar{x}	Max.	Year	Min.	Year	No.	\bar{x}
Surface											
J	9.72	1966	4.41	1966	2 7.07				1966	1	17.00
F				1966	1 7.37				1966	1	10.48
M	12.93	1966	9.00	1966	2 10.97	7.82	1966	7.50	1966	2	7.66
A	14.89	1966	13.28	1966	2 14.09	10.40	1966	8.40	1966	2	9.40
M	25.10	1952	18.24	1966	5 21.84	9.37	1966	6.73	1966	5	7.93
J	28.10	1966	23.22	1966	3 25.27	10.70	1965	7.33	1966	3	8.88
J											
A				1965	1 25.76				1965	1	4.64
S	25.65	1965	24.00	1953	2 24.82	3.10	1953	9.50	1965	2	11.30
O											
N				1965	1 16.50				1965	1	12.00
D				1965	1 8.22				1965	1	15.93
Bottom											
J	8.69	1966	4.82	1966	2 6.76				1966	1	17.54
F				1966	1 7.68				1966	1	14.11
M	10.28	1966	9.37	1966	2 9.83	13.20	1966	8.12	1966	2	10.66
A	14.90	1966	12.91	1966	2 13.91	11.50	1966	8.79	1966	2	10.14
M	21.70	1966	18.31	1966	3 19.64	11.03	1966	7.00	1966	3	9.21
J	24.30	1966	22.50	1965	3 23.28	12.66	1966	7.98	1966	3	10.58
J											
A				1965	1 24.62				1965	1	13.52
S				1965	1 23.45				1965	1	18.60
O											
N											
D				1965	1 18.09				1965	1	16.32

Table 49.--Middle Pamlico River between Lights 1 and Quick Flash off Wades Point, 1948-51

[Temperatures are °C. and salinities are p.p.t.]

Temperature						Salinity					
Mo.	Max.	Year	Min.	Year	No. \bar{x}	Max.	Year	Min.	Year	No.	\bar{x}
Surface											
J	12.10	1949	5.70	1950	2 8.90	12.61	1950	7.70	1949	2	10.16
F											
M	12.60	1951	7.00	1949	2 9.80	12.20	1949	5.55	1949	2	8.88
A											
M											
J				1949	1 30.40				1949	1	7.44
J				1949	1 29.60				1949	1	5.21
A				1949	1 28.70				1949	1	8.75
S				1950	1 26.40				1950	1	9.03
O	19.60	1949	18.60	1948	2 19.10	12.15	1948	7.90	1949	2	10.02
N				1949	1 10.80				1949	1	8.64
D	15.20	1948	12.40	1948	2 13.80	9.32	1948	5.32	1948	2	7.32
Bottom											
J	10.40	1949	7.20	1950	2 8.80	13.70	1950	10.46	1949	2	12.08
F											
M				1949	1 8.60				1949	1	9.16
A											
M											
J				1949	1 27.40				1949	1	8.62
J				1949	1 27.40				1949	1	6.83
A				1949	1 27.90				1949	1	9.00
S				1950	1 26.00				1950	1	9.36
O	20.10	1949	19.50	1948	2 19.80	17.86	1948	10.00	1950	2	13.93
N				1949	1 10.60				1949	1	10.41
D	13.80	1948	13.00	1948	2 13.40	16.06	1948	9.80	1948	2	12.93

Table 50.--Pamlico River, N. Indian Island, Light 3, 1963-66

[Temperatures are °C. and salinities are p.p.t.]

Temperature						Salinity					
Mo.	Max.	Year	Min.	Year	No. \bar{x}	Max.	Year	Min.	Year	No.	\bar{x}
Surface											
J											
F	7.00	1964	2.35	1965	2 4.68	9.27	1965	8.52	1964	2	8.89
M	12.80	1966	5.47	1965	3 8.80	8.76	1965	6.49	1966	3	7.86
A	20.64	1964	15.20	1965	3 18.06	7.96	1966	5.24	1964	3	6.37
M	22.77	1965	22.41	1966	2 22.59	7.29	1966	6.73	1965	2	7.01
J	27.80	1964	24.61	1965	2 26.20	7.95	1965	4.50	1964	2	6.23
J	27.64	1965	24.55	1963	3 25.98	11.31	1964	5.62	1965	3	8.12
A	26.68	1963	24.01	1965	3 25.24	10.01	1964	8.42	1965	3	9.35
S	21.47	1964	20.08	1965	2 20.78	10.96	1965	7.27	1964	2	9.12
O	17.82	1965	12.00	1964	2 14.94	9.90	1965	5.60	1964	2	7.75
N	15.76	1963	11.10	1965	3 13.85	14.40	1963	12.10	1965	3	13.20
D	9.00	1964	6.92	1964	3 7.92	15.33	1965	7.24	1964	3	10.86
Bottom											
J											
F	7.55	1964	2.81	1965	2 5.18	10.98	1965	10.06	1964	2	10.52
M	12.72	1966	5.46	1965	3 8.79	10.10	1966	6.38	1966	3	8.38
A	18.59	1964	14.48	1965	3 17.20	8.15	1964	6.63	1965	3	7.59
M	22.38	1966	20.30	1965	2 21.34	8.02	1965	7.85	1966	2	7.94
J	24.43	1965	22.50	1964	2 23.47	9.30	1964	8.25	1965	2	8.78
J	26.30	1965	24.52	1964	3 25.47	15.61	1964	6.18	1965	3	9.96
A	26.25	1963	24.01	1965	3 25.24	10.10	1964	8.42	1965	3	9.40
S	20.00	1965	19.78	1964	2 19.89	18.40	1964	11.00	1965	2	14.70
O	17.79	1965	13.81	1964	2 15.80	13.45	1965	12.69	1964	2	13.07
N	15.53	1963	11.10	1965	3 13.73	14.18	1963	12.26	1965	3	13.18
D	8.80	1964	7.23	1965	3 7.88	16.20	1965	9.90	1964	3	12.71

Table 51.--Pamlico River, Rumley Marsh Light, 1957-66

[Temperatures are °C. and salinities are p.p.t.]

Temperature						Salinity					
Mo.	Max.	Year	Min.	Year	No. \bar{x}	Max.	Year	Min.	Year	No.	\bar{x}
Surface											
J	9.71	1966	3.74	1966	2 6.73	15.37	1966	13.84	1966	2	14.61
F	7.66	1966	2.50	1965	3 5.65	7.75	1965	4.52	1965	3	6.04
M	13.61	1966	5.78	1965	5 9.86	5.11	1965	2.80	1966	5	4.15
A	18.52	1966	11.08	1965	5 14.78	6.30	1966	3.04	1965	5	4.61
M	22.56	1965	18.00	1966	7 21.12	5.80	1965	3.79	1966	7	4.84
J	28.16	1966	23.30	1966	4 24.96	5.50	1965	3.08	1966	4	4.26
J	27.12	1965	26.05	1964	2 26.58	8.35	1964	3.06	1965	2	5.70
A	25.55	1964	23.95	1965	2 24.75	8.00	1964	5.60	1965	2	6.80
S	26.10	1965	20.12	1965	3 22.59	8.56	1965	5.44	1964	3	6.77
O	15.59	1965	13.57	1964	2 14.58	7.63	1965	3.52	1964	2	5.58
N	16.50	1965	10.88	1965	4 13.65	15.61	1957	11.00	1965	4	12.48
D	8.74	1964	7.29	1964	4 7.96	13.94	1965	5.42	1964	4	9.88
Bottom											
J	14.41	1966	8.56	1966	2 11.49	13.09	1966	15.72	1966	2	16.91
F	8.34	1966	3.21	1965	3 6.19	13.04	1966	8.10	1965	3	10.42
M	12.25	1966	4.62	1965	5 9.07	10.57	1966	5.38	1966	5	8.09
A	17.34	1966	10.32	1965	5 14.32	9.15	1966	4.15	1965	5	6.08
M	21.69	1966	18.42	1966	7 20.19	8.08	1966	4.25	1966	7	6.23
J	24.37	1965	21.60	1966	4 23.02	6.92	1965	4.20	1965	4	6.73
J	25.84	1966	25.70	1965	2 25.77	8.38	1964	5.08	1965	2	6.73
A	24.14	1964	23.95	1965	2 24.05	14.05	1964	5.72	1965	2	9.89
S	24.00	1965	19.87	1964	3 21.34	15.38	1964	8.77	1965	3	11.92
O	18.35	1965	14.39	1964	2 16.37	13.10	1965	11.90	1964	2	12.50
N	16.51	1965	10.99	1965	3 13.12	16.73	1957	11.65	1965	3	13.82
D	9.60	1964	7.33	1965	4 8.45	17.52	1965	11.20	1964	4	14.20

Table 52.--Pamlico River, Core Point, 1964-66

[Temperatures are °C. and salinities are p.p.t.]

Temperature					Salinity							
Mo.	Max.	Year	Min.	Year	No.	\bar{x}	Max.	Year	Min.	Year	No.	\bar{x}
Surface												
J												
F				1965	1	2.30				1965	1	4.93
M	12.25	1966	5.30	1965	3	8.59	2.96	1966	2.65	1966	3	2.76
A	18.45	1966	16.08	1965	2	17.26	4.67	1966	1.04	1965	2	2.86
M	22.83	1965	22.14	1966	2	22.49	3.08	1965	3.06	1966	2	3.07
J	27.82	1964	24.66	1965	2	26.24	3.50	1965	1.60	1964	2	2.55
J	27.30	1965	25.84	1964	2	26.57	6.51	1964	3.43	1965	2	4.97
A	25.09	1964	23.91	1965	2	24.50	6.00	1964	5.08	1965	2	5.54
S				1964	1	21.63				1964	1	4.14
O	15.75	1965	12.09	1964	2	13.92	6.08	1965	1.38	1964	2	3.73
N	14.85	1965	10.81	1965	2	12.83	10.07	1965	9.42	1965	2	9.74
D	8.87	1964	7.12	1964	3	7.79	12.56	1965	2.29	1964	3	7.22
Bottom												
J												
F				1965	1	2.81				1965	1	6.71
M	11.97	1966	5.32	1965	3	8.48	8.47	1966	2.96	1965	3	4.92
A	18.35	1966	16.08	1965	2	17.22	5.44	1966	1.04	1965	2	3.24
M	22.39	1966	20.65	1965	2	21.52	4.22	1965	3.18	1966	2	3.70
J	24.24	1964	22.90	1964	2	23.57	5.70	1964	4.56	1965	2	5.13
J	25.26	1965	24.93	1964	2	25.09	7.19	1964	3.43	1965	2	5.31
A	24.13	1965	24.05	1964	2	24.24	11.14	1964	7.73	1965	2	9.13
S				1964	1	20.06				1964	1	9.04
O	18.75	1965	14.11	1964	2	16.58	14.02	1965	11.75	1964	2	12.88
N	15.65	1965	10.81	1965	2	13.23	12.88	1965	10.07	1965	2	11.47
D	8.55	1964	7.34	1965	3	8.06	14.53	1965	9.50	1964	3	12.03

Table 53.--Pamlico River, Mauls Point Light, 1965-66

[Temperatures are °C. and salinities are p.p.t.]

Temperature

Salinity

Mo.	Max.	Year	Min.	Year	No.	\bar{x}	Max.	Year	Min.	Year	No.	\bar{x}
Surface												
J	10.34	1966	3.84	1966	2	7.09	12.76	1966	10.41	1966	2	11.58
F	8.04	1966	6.88	1965	3	7.64	1.10	1966	0.72	1965	3	0.87
M	14.10	1966	10.14	1966	2	12.12	0.80	1966	0.02	1966	2	0.41
A	16.08	1966	11.44	1965	3	13.70	3.90	1966	0.62	1965	3	2.13
M	21.73	1966	18.32	1966	5	20.86	2.00	1966	0.04	1966	5	1.51
J	28.50	1966	22.80	1965	3	24.87	2.39	1965	0.51	1966	3	1.40
J												
A				1965	1	25.20				1965	1	0.52
S				1965	1	26.55				1965	1	3.52
O												
N				1965	1	18.00				1965	1	8.20
D				1965	1	8.18				1965	1	9.26
Bottom												
J	10.32	1966	4.27	1966	2	7.29	14.00	1966	12.82	1966	2	13.41
F	8.56	1966	7.76	1965	3	8.07	11.88	1966	3.80	1966	3	6.63
M	12.00	1966	9.58	1966	2	10.79	9.55	1966	1.30	1966	2	5.43
A	15.93	1966	11.38	1965	3	13.50	4.20	1966	0.80	1965	3	2.35
M	21.54	1966	18.37	1966	5	20.49	4.84	1966	0.00	1966	5	2.62
J	23.99	1966	22.15	1966	3	22.79	5.37	1966	1.00	1965	3	2.47
J												
A				1965	1	24.36				1965	1	0.60
S				1965	1	24.50				1965	1	8.20
O												
N												
D				1965	1	10.70				1965	1	15.84

Table 54.--Bay River at Light 3, 1948-57

[Temperatures are °C. and salinities are p.p.t.]

Temperature						Salinity					
Mo.	Max.	Year	Min.	Year	No. \bar{x}	Max.	Year	Min.	Year	No.	\bar{x}
Surface											
J	10.90	1950	7.01	1951	2 8.96	15.90	1951	9.80	1950	2	12.85
F											
M	13.60	1956	9.30	1949	2 11.15	13.57	1956	9.30	1949	3	11.54
A											
M											
J				1949	1 29.50				1949	1	11.73
J	28.60	1949	28.30	1949	2 28.45	10.00	1949	9.33	1949	2	9.66
A				1951	1 21.20						
S				1950	1 27.00				1950	1	12.60
O	20.00	1948	14.80	1956	4 17.30	20.25	1957	11.49	1949	4	17.55
N				1949	1 11.20				1949	1	11.85
D	14.20	1948	8.50	1949	2 11.35	13.40	1948	12.50	1949	2	12.95
Bottom											
J	9.00	1950	5.70	1951	2 7.35	16.00	1951	13.60	1950	2	14.80
F											
M				1949	1 9.00				1949	1	9.60
A											
M											
J	27.30	1949	26.00	1949	2 26.65				1949	1	12.50
J	28.30	1949	28.20	1949	2 28.25	10.10	1949	9.90	1949	2	10.15
A				1951	1 30.00						
S				1950	1 25.60				1950	1	13.70
O	19.80	1948	19.80	1949	2 19.80	20.70	1948	12.20	1949	2	16.45
N				1949	1 11.10				1949	1	12.60
D	13.80	1948	7.80	1949	2 10.80	16.90	1948	12.50	1949	2	14.70

Table 55.--Bay River, Bay Point Light, 1949-66

[Temperatures are °C. and salinities are p.p.t.]

Temperature						Salinity					
Mo.	Max.	Year	Min.	Year	No. \bar{x}	Max.	Year	Min.	Year	No.	\bar{x}
Surface											
J	6.38	1958	5.41	1958	3 5.79	13.91	1958	4.47	1960	3	10.69
F	11.11	1959	3.41	1965	7 7.18	15.96	1966	10.54	1960	8	13.84
M	11.77	1959	6.39	1965	4 9.74	13.28	1965	10.93	1959	4	12.31
A	20.85	1966	13.14	1965	5 17.49	13.13	1966	9.52	1960	5	11.53
M	22.44	1958	21.15	1960	5 21.92	13.63	1966	7.43	1958	5	10.83
J	26.66	1956	21.07	1958	6 24.31	14.94	1956	8.51	1958	6	11.20
J	28.76	1958	24.50	1960	10 26.14	17.88	1964	8.89	1958	10	12.63
A	28.95	1959	24.50	1960	8 27.79	18.00	1964	12.59	1958	8	15.29
S	25.20	1958	20.50	1960	7 23.43	16.67	1959	13.42	1960	8	14.79
O	20.99	1957	14.60	1964	10 17.68	21.51	1957	11.18	1964	10	17.95
N	14.55	1957	11.40	1960	5 13.38	20.90	1957	14.40	1959	5	17.50
D	9.26	1965	7.07	1965	6 8.31	18.36	1965	14.34	1949	5	16.59
Bottom											
J	6.38	1958	4.91	1958	3 5.52	15.19	1958	14.27	1960	3	14.67
F	9.81	1959	4.01	1965	7 7.07	15.99	1966	12.11	1960	7	14.15
M	11.35	1966	6.32	1965	4 9.41	14.13	1959	12.12	1966	4	13.21
A	19.14	1966	13.16	1965	5 16.01	14.52	1960	12.12	1964	5	13.02
M	22.34	1958	20.65	1960	5 21.72	14.29	1966	8.96	1958	5	11.72
J	26.62	1956	21.07	1958	6 23.36	17.34	1956	8.51	1958	6	11.88
J	28.86	1958	24.72	1964	10 25.92	18.91	1964	9.20	1958	10	13.20
A	29.33	1958	25.00	1960	8 27.58	21.22	1964	14.99	1963	8	16.14
S	24.60	1960	20.60	1960	7 23.50	16.46	1958	13.78	1960	8	15.17
O	20.80	1960	12.74	1964	8 17.99	23.21	1957	12.27	1960	10	18.59
N	14.55	1957	11.70	1960	5 13.40	20.21	1957	13.37	1959	4	16.98
D	9.82	1965	6.70	1957	6 8.53	19.16	1957	14.62	1964	6	17.26

Table 56.--Bay River, Maw Point Shoal Light, 1949-59

[Temperatures are °C. and salinities are p.p.t.]

Temperature						Salinity					
Mo.	Max.	Year	Min.	Year	No. \bar{x}	Max.	Year	Min.	Year	No.	\bar{x}
Surface											
J	6.70	1951	3.58	1956	2 5.14	16.00	1951	15.25	1959	2	15.60
F				1956	1 10.10				1956	1	13.84
M				1956	1 12.80				1956	1	14.49
A											
M											
J				1949	1 29.20				1949	1	11.07
J											
A	29.38	1959	28.60	1958	3 28.96	16.60	1958	16.08	1958	3	16.30
S	26.30	1950	24.80	1958	3 25.37	14.98	1958	14.60	1950	2	14.80
O				1958	1 20.20	20.80	1956	14.05	1958	2	17.40
N	17.00	1958	11.50	1949	2 11.25	16.40	1958	11.90	1949	2	14.20
D	8.27	1958	7.80	1949	2 8.04	16.73	1958	11.70	1949	2	14.20
Bottom											
J	5.70	1951	3.78	1956	2 4.74	16.80	1951	15.72	1959	2	16.30
F											
M											
A											
M											
J				1949	1 28.50				1949	1	11.89
J											
A	28.60	1958	28.28	1959	3 28.49	20.48	1958	16.08	1958	3	17.90
S	25.00	1950	24.60	1950	2 24.80				1950	1	13.50
O				1958	1 19.50				1958	1	14.67
N	15.70	1958	11.50	1949	2 13.60	16.98	1958	12.40	1949	2	14.70
D	8.47	1958	7.50	1949	2 7.99	16.60	1958	11.60	1949	2	14.10

Table 57.--Neuse River Entrance Light, 1948-66

[Temperatures are °C. and salinities are p.p.t.]

Temperature						Salinity					
Mo.	Max.	Year	Min.	Year	No. \bar{x}	Max.	Year	Min.	Year	No.	\bar{x}
Surface											
J	10.71	1959	1.90	1961	12 6.04	19.06	1966	11.55	1959	15	15.78
F	10.70	1951	2.06	1966	16 7.38	17.83	1966	7.20	1960	16	13.75
M	13.80	1961	5.81	1965	17 11.15	15.26	1956	5.16	1960	17	10.86
A	21.13	1964	11.76	1965	12 16.76	14.60	1951	8.78	1965	12	11.01
M	25.54	1959	18.51	1957	17 21.52	15.23	1957	5.93	1958	20	11.87
J	28.80	1952	21.98	1964	26 25.82	18.04	1959	8.60	1958	26	12.74
J	28.80	1949	24.67	1965	13 27.15	19.74	1956	9.38	1958	13	13.98
A	30.30	1958	24.63	1964	16 27.29	31.75	1948	12.38	1965	16	16.44
S	26.55	1958	19.88	1965	13 23.57	21.83	1957	8.04	1964	13	14.83
O	25.40	1952	16.20	1960	17 18.79	20.73	1957	5.54	1964	18	15.01
N	20.20	1950	10.50	1951	12 13.89	18.51	1957	10.80	1950	14	15.99
D	12.10	1959	3.60	1960	15 8.95	18.69	1965	10.71	1959	16	15.08
Bottom											
J	9.61	1959	2.10	1961	11 5.98	19.16	1966	14.22	1960	11	17.04
F	10.07	1956	1.90	1961	13 5.35	18.70	1966	11.40	1960	13	15.19
M	13.49	1957	4.75	1965	14 10.04	15.90	1956	9.87	1960	13	12.63
A	18.73	1964	9.90	1965	10 14.64	13.95	1961	10.46	1964	10	12.26
M	23.74	1959	17.96	1957	15 20.69	15.93	1966	9.20	1958	15	12.69
J	27.63	1956	20.94	1956	25 24.52	20.75	1959	9.74	1958	24	14.70
J	28.38	1959	24.63	1965	13 26.72	20.30	1956	11.50	1949	13	15.71
A	28.93	1958	24.68	1964	14 26.81	31.80	1948	12.44	1965	15	16.79
S	26.75	1958	19.88	1965	13 23.48	21.83	1957	12.00	1949	13	16.03
O	23.41	1955	13.52	1964	14 18.95	22.66	1957	11.96	1960	12	16.23
N	20.40	1950	12.20	1960	8 14.72	20.39	1957	13.86	1959	10	16.93
D	11.26	1959	3.80	1960	12 8.84	20.55	1957	13.89	1959	13	16.69

Table 58.--Neuse River, Garbacon Shoal at Light 7, 1948-66

[Temperatures are °C. and salinities are p.p.t.]

Temperature						Salinity					
Mo.	Max.	Year	Min.	Year	No. \bar{x}	Max.	Year	Min.	Year	No.	\bar{x}
Surface											
J	10.60	1949	1.50	1961	23 6.52	15.74	1966	1.60	1949	23	9.83
F	12.51	1959	2.32	1966	25 8.11	19.39	1966	2.05	1960	23	8.98
M	14.60	1961	3.94	1960	21 10.67	11.38	1956	1.31	1960	21	6.46
A	21.15	1966	12.72	1965	15 16.14	11.20	1966	3.54	1965	16	7.20
M	25.04	1959	18.01	1957	18 21.82	13.84	1957	2.68	1958	19	8.35
J	29.20	1952	20.80	1949	27 25.24	15.19	1959	6.04	1958	27	9.20
J	29.28	1959	24.50	1960	19 27.52	16.06	1964	5.46	1958	21	11.43
A	30.20	1951	24.17	1964	23 27.59	18.50	1948	7.34	1960	19	13.38
S	28.40	1953	20.09	1965	26 24.32	20.63	1957	4.05	1964	28	13.24
O	23.13	1958	12.74	1964	16 19.06	20.19	1956	1.74	1964	25	12.52
N	20.60	1950	10.50	1951	21 13.75	16.89	1957	6.28	1959	22	11.63
D	13.80	1948	3.70	1960	24 8.83	24.10	1948	2.41	1948	24	11.33
Bottom											
J	9.21	1966	2.10	1961	21 6.04	17.02	1966	5.90	1958	21	13.07
F	10.70	1957	1.59	1966	19 7.36	18.40	1966	7.85	1960	19	11.76
M	12.59	1957	4.04	1960	18 9.47	15.70	1966	4.24	1960	17	10.19
A	18.83	1966	9.76	1965	15 14.69	14.60	1960	7.41	1961	15	10.39
M	23.74	1959	16.97	1965	16 20.21	13.29	1965	9.25	1958	14	10.96
J	27.20	1949	20.70	1949	26 23.55	22.40	1949	6.04	1958	24	12.49
J	28.48	1956	24.55	1965	19 26.81	23.18	1964	5.73	1958	21	14.76
A	29.00	1951	24.11	1964	20 26.69	20.61	1958	8.56	1965	19	16.15
S	27.10	1957	20.09	1965	24 23.58	20.90	1948	8.20	1949	25	14.46
O	23.46	1955	12.68	1964	13 19.05	18.17	1957	6.28	1964	14	12.02
N	20.10	1950	11.20	1949	19 14.19	21.02	1957	10.14	1960	19	14.34
D	13.80	1948	4.50	1958	22 9.19	19.83	1957	9.24	1959	23	13.45

Table 59.--(Neuse River) South River, Cedar Point on Big Creek, 1951-52

[Temperatures are °C. and salinities are p.p.t.]

Temperature						Salinity					
Mo.	Max.	Year	Min.	Year	No. \bar{x}	Max.	Year	Min.	Year	No.	\bar{x}
Surface											
J											
F				1952	1 11.00				1952	1	13.37
M											
A	22.00	1952	16.20	1952	2 19.10	9.00	1952	7.00	1952	2	8.00
M				1952	1 22.20				1952	1	10.34
J				1952	1 25.80				1952	1	9.57
J	32.40	1952	26.40	1952	3 29.66	13.31	1952	12.30	1952	3	12.80
A				1952	1 25.20				1952	1	11.95
S				1952	1 22.20				1952	1	14.75
O											
N											
D	11.00	1951	10.80	1952	2 10.90	13.71	1951	12.26	1952	2	12.69

Table 60.--(Neuse River) Adams Creek, Lights 4-7, 1951-66

[Temperatures are °C. and salinities are p.p.t.]

Temperature						Salinity					
Mo.	Max.	Year	Min.	Year	No. \bar{x}	Max.	Year	Min.	Year	No.	\bar{x}
Surface											
J	11.24	1966	2.20	1961	14 5.88	14.94	1966	2.99	1960	14	9.48
F	13.11	1959	2.38	1966	17 8.61	13.65	1952	1.40	1960	17	7.92
M	16.10	1961	4.49	1960	15 11.54	9.87	1960	1.65	1960	15	5.86
A	22.80	1952	12.80	1961	10 16.29	11.64	1957	3.00	1964	11	6.10
M	25.75	1964	16.81	1957	13 22.56	12.61	1957	2.58	1958	14	6.95
J	27.36	1964	22.27	1958	16 25.60	13.80	1956	4.36	1958	16	9.14
J	30.76	1958	25.80	1960	13 28.34	18.08	1956	4.80	1959	13	12.29
A	30.80	1958	25.10	1964	15 28.07	16.38	1964	7.00	1960	14	11.36
S	26.85	1958	21.04	1964	15 23.86	20.72	1957	4.50	1964	15	13.39
O	23.29	1955	12.98	1964	12 19.91	17.77	1957	1.89	1955	12	8.31
N	18.09	1956	9.30	1960	15 14.52	16.38	1957	6.56	1959	15	10.19
D	11.02	1955	2.10	1960	14 7.43	15.26	1955	5.63	1959	14	10.38
Bottom											
J	10.75	1961	1.50	1966	14 5.89	15.82	1966	4.04	1960	14	12.74
F	13.85	1956	2.40	1961	15 8.13	17.72	1958	1.42	1960	16	10.00
M	15.43	1966	4.49	1960	15 10.84	29.16	1961	1.44	1960	14	9.70
A	20.80	1960	13.16	1965	9 15.21	24.69	1960	4.72	1965	9	10.93
M	25.34	1959	16.91	1957	13 21.73	28.50	1965	6.00	1958	13	12.21
J	28.09	1959	20.77	1958	16 25.61	31.53	1959	5.34	1958	16	15.22
J	29.66	1958	25.80	1960	13 28.19	33.64	1956	11.28	1960	13	21.57
A	29.90	1958	23.50	1960	14 27.55	29.98	1964	9.11	1958	14	19.10
S	29.71	1957	20.61	1964	15 24.29	28.39	1957	9.69	1960	15	15.68
O	23.03	1958	13.08	1964	12 19.79	20.48	1960	2.92	1964	11	11.07
N	19.16	1959	9.30	1960	13 14.09	20.35	1957	6.91	1951	15	11.28
D	11.63	1955	2.70	1960	13 7.74	24.85	1959	8.87	1959	14	14.47

Table 61.--Neuse River, Wilkinson Point at Light 10, 1956-66

[Temperatures are °C. and salinities are p.p.t.]

Temperature						Salinity					
Mo.	Max.	Year	Min.	Year	No. \bar{x}	Max.	Year	Min.	Year	No.	\bar{x}
Surface											
J	10.80	1966	1.30	1961	11 5.70	14.50	1966	1.38	1960	11	8.02
F	11.20	1961	3.00	1966	11 7.29	8.53	1966	1.38	1960	10	5.96
M	13.82	1966	3.94	1960	6 10.76	5.23	1961	0.66	1959	6	2.93
A	18.53	1964	12.70	1961	7 15.31	11.31	1961	0.84	1964	8	4.37
M	23.55	1959	18.97	1966	11 21.94	9.82	1966	0.63	1958	10	5.25
J	26.86	1966	21.49	1966	12 24.98	11.42	1959	0.56	1965	11	5.70
J	29.16	1958	25.20	1960	9 27.31	15.57	1959	4.40	1958	9	8.75
A	29.57	1958	24.00	1960	18 27.33	14.69	1958	2.90	1960	20	9.12
S	26.30	1958	20.36	1964	8 23.74	11.70	1965	1.80	1964	8	7.71
O	20.00	1958	13.44	1964	3 17.43	10.01	1959	1.44	1964	4	5.51
N	16.40	1958	11.20	1960	11 14.06	13.50	1965	3.28	1959	11	8.76
D	9.18	1965	3.10	1958	8 7.15	11.40	1965	6.35	1959	8	8.80
Bottom											
J	9.64	1966	2.40	1961	11 5.71	17.23	1966	4.58	1960	11	12.59
F	10.90	1961	1.93	1966	10 7.06	16.54	1966	6.69	1960	10	10.15
M	13.16	1964	4.04	1960	7 10.11	14.00	1966	1.07	1964	6	9.31
A	15.71	1959	10.00	1965	7 13.30	13.82	1965	3.93	1961	8	9.49
M	23.12	1964	18.99	1966	9 20.54	11.56	1966	6.33	1964	11	9.33
J	26.21	1964	21.47	1966	12 23.70	17.65	1959	3.60	1965	11	9.41
J	28.26	1958	25.00	1960	9 26.56	18.64	1959	11.06	1960	9	15.15
A	28.90	1958	24.32	1964	20 27.27	18.80	1965	10.68	1959	20	17.00
S	26.75	1958	19.89	1964	8 23.30	20.54	1965	3.04	1960	8	12.03
O	20.76	1959	13.14	1964	3 18.13	12.74	1958	10.32	1960	4	11.90
N	17.26	1959	11.50	1960	10 14.56	15.75	1963	5.97	1960	10	12.62
D	10.50	1965	5.00	1960	8 8.35	17.95	1965	6.71	1959	8	11.58

Table 62.--Neuse River, Hampton Shoal at Light 17, 1958-61

[Temperatures are °C. and salinities are p.p.t.]

Temperature						Salinity					
No.	Max.	Year	Min.	Year	No. \bar{x}	Max.	Year	Min.	Year	No.	\bar{x}
Surface											
J	8.00	1958	1.40	1962	9 5.18	7.09	1961	0.39	1958	9	2.92
F	11.07	1960	6.06	1960	6 8.54	1.42	1959	0.06	1961	6	0.71
M	13.50	1961	4.04	1960	4 10.60	0.21	1960	0.06	1961	4	0.11
V	20.70	1960	13.60	1961	4 16.05	0.16	1959	0.07	1961	4	0.11
M	23.35	1959	20.93	1958	4 21.81	6.60	1960	0.08	1958	4	1.87
J	27.29	1957	22.87	1958	6 25.39	5.64	1959	0.10	1958	6	2.52
J	29.86	1958	26.10	1960	10 28.04	9.81	1959	0.75	1958	10	3.59
A	30.10	1959	24.00	1960	5 27.61	7.90	1958	0.57	1960	5	5.34
S	26.15	1958	22.00	1960	6 24.29	8.12	1960	0.52	1960	6	5.18
O	20.30	1958	18.76	1959	2 19.53	3.19	1959	1.35	1960	3	2.32
N	16.50	1958	10.60	1960	9 13.78	7.03	1960	1.87	1959	9	3.32
D	8.80	1959	7.37	1958	4 7.78	7.59	1960	2.16	1959	6	5.34
Bottom											
J	7.84	1960	2.50	1961	9 5.41	11.04	1961	0.82	1958	9	5.43
F	10.97	1960	3.84	1958	6 7.62	8.68	1958	0.14	1960	6	2.60
M	11.77	1959	4.24	1960	4 9.65	3.66	1961	0.07	1959	4	1.50
A	16.11	1959	13.90	1961	4 15.35	0.30	1961	0.07	1961	4	0.12
M	23.95	1959	20.55	1960	4 21.48	6.62	1960	0.07	1958	4	2.07
J	25.30	1958	22.07	1958	6 24.37	9.78	1959	0.16	1958	6	3.64
J	28.45	1960	24.80	1960	10 27.16	16.06	1959	1.96	1958	10	8.55
A	28.30	1958	24.60	1960	5 26.73	13.24	1958	6.49	1960	5	10.79
S	26.55	1958	23.00	1960	6 24.68	9.87	1960	1.15	1960	6	6.28
O	21.56	1959	19.80	1958	2 20.68	9.13	1958	5.39	1960	3	7.79
N	16.80	1958	10.60	1960	9 11.22	7.70	1958	2.68	1959	9	5.51
D	9.30	1959	3.80	1960	6 6.94	10.43	1958	3.06	1959	6	6.96

Table 63.--Neuse River, Fort Point at Light 25, 1958-66

[Temperatures are °C. and salinities are p.p.t.]

Temperature						Salinity					
No.	Max.	Year	Min.	Year	No. \bar{x}	Max.	Year	Min.	Year	No.	\bar{x}
Surface											
J	12.13	1966	4.48	1966	4 7.65	8.54	1966	0.25	1958	4	4.32
F	8.14	1958	3.12	1966	8 6.96	1.34	1965	0.11	1964	7	0.65
M	15.85	1966	9.71	1966	3 12.87	0.50	1966	0.00	1966	3	0.21
A	18.61	1966	11.54	1966	4 16.81	1.10	1966	0.07	1966	4	0.49
M	25.01	1964	19.17	1964	7 21.78	2.21	1964	0.07	1958	7	0.93
J	28.64	1964	21.26	1960	10 24.83	8.15	1966	0.08	1958	10	1.50
J	29.86	1958	27.00	1964	4 28.87	2.97	1964	0.30	1958	4	1.29
A	29.27	1958	24.14	1965	4 26.89	5.34	1958	0.50	1965	4	2.84
S	25.68	1965	21.30	1964	5 24.19	5.11	1958	0.00	1964	5	3.29
O	18.80	1958	12.15	1964	2 15.47	0.52	1964	0.34	1958	2	0.43
N	16.00	1965	12.60	1963	4 14.83	9.20	1965	3.30	1958	4	5.18
D	8.63	1965	7.27	1958	4 7.94	9.84	1965	1.38	1963	5	5.85
Bottom											
J	11.04	1966	4.50	1966	4 7.61	12.27	1966	0.43	1958	4	5.99
F	8.90	1958	1.55	1966	7 6.27	10.05	1966	0.12	1964	7	3.88
M	15.85	1966	9.72	1966	3 12.79	10.78	1966	0.13	1964	3	3.87
A	18.63	1966	13.18	1965	4 15.98	2.60	1966	0.06	1966	4	0.87
M	24.96	1964	19.44	1966	7 21.32	5.46	1964	0.05	1958	7	1.94
J	26.77	1964	21.27	1958	10 24.03	11.85	1966	0.07	1958	10	3.11
J	28.42	1958	26.40	1964	4 27.49	9.40	1958	0.30	1958	4	6.03
A	28.30	1958	23.70	1965	4 26.04	14.89	1958	0.66	1965	4	9.15
S	26.65	1958	0.00	1964	5 20.05	19.34	1964	6.56	1958	4	10.26
O	20.00	1958	11.74	1964	2 15.87	8.24	1958	0.50	1964	2	4.27
N	16.70	1958	13.36	1963	3 15.29	12.57	1963	7.63	1958	3	9.96
B	10.28	1965	8.87	1958	4 9.48	14.91	1965	5.39	1958	5	9.50

Table 64.--Core Sound, S. Harbor Island, Light 11, 1948-59

[Temperatures are °C. and salinities are p.p.t.]

Temperature						Salinity					
Mo.	Max.	Year	Min.	Year	No. \bar{x}	Max.	Year	Min.	Year	No. \bar{x}	
Surface											
J	9.40	1953	4.80	51/7	3 6.33	24.80	1951	17.50	1953	3 22.36	
F	10.40	1953	8.50	1954	3 9.50	20.68	1952	17.10	1953	3 18.53	
M	11.70	1951	9.35	1949	2 10.52	19.00	1951	11.60	1949	3 15.84	
A	20.70	1952	14.30	1953	3 18.13	28.21	1952	17.50	1953	3 24.10	
M				1952	1 21.00				1952	1 17.74	
J	29.80	1949	21.20	1949	7 25.85	34.05	1952	17.61	1949	7 23.85	
J	32.00	1952	27.79	1956	3 29.37	34.00	1952	21.92	1956	3 25.99	
A	30.00	1953	26.20	1948	5 27.98	36.09	1956	24.80	1953	5 30.50	
S	25.80	1950	21.60	1949	5 24.17	26.55	1948	20.10	1949	5 22.27	
O	20.80	1949	16.30	1948	2 18.55	19.52	1948	17.29	1949	2 18.40	
N	21.50	1950	21.50	1950	2 21.50	16.10	1950	16.10	1950	2 16.10	
D	13.80	1953	10.90	1952	5 12.64	22.29	1952	11.22	1948	5 16.74	
Bottom											
J	5.10	51/7	5.10	51/7	2 5.10	25.00	1951	24.78	1957	2 24.89	
F											
M											
A				1949	1 19.40				1949	1 27.60	
M											
J	27.50	1949	20.00	1949	5 24.07	31.43	1949	17.76	1949	5 24.75	
J				1956	1 26.96						
A	26.20	1948	26.20	1948	2 26.20	29.20	1948	29.20	1948	2 29.20	
S	25.80	1950	21.60	1949	4 24.52	30.07	1948	20.40	1949	4 24.77	
O	20.80	1949	16.30	1948	2 18.55	21.37	1948	20.28	1949	2 20.82	
N	21.00	1950	21.00	1950	2 21.00	17.63	1950	17.60	1950	2 17.62	
D	13.80	1948	12.20	1949	3 12.73	29.50	1949	12.02	1948	3 23.66	

Table 65.--Core Sound, SE. Hall Point, Light 20, 1948-56

[Temperatures are °C. and salinities are p.p.t.]

Temperature						Salinity					
Mo.	Max.	Year	Min.	Year	No. \bar{x}	Max.	Year	Min.	Year	No.	\bar{x}
Surface											
J	10.50	1953	7.20	1952	4 8.58	28.60	1951	20.00	1951	4	23.92
F	10.60	1952	9.20	1954	3 9.93	29.32	1952	19.20	1953	3	23.41
M	13.00	1953	7.50	1949	4 10.40	24.10	1951	17.60	1949	4	21.02
A	20.70	1952	15.60	1953	5 18.46	30.77	1952	24.63	1951	5	27.43
M	24.80	1953	21.00	1952	2 22.90	32.90	1953	30.90	1952	2	31.90
J	29.30	1949	21.00	1949	7 25.69	34.38	1952	22.10	1949	6	28.10
J	31.60	1952	28.35	1956	2 29.98	34.54	1956	33.82	1952	2	34.18
A	30.00	1953	26.00	1948	4 28.62	35.77	1952	32.50	1948	3	34.16
S	26.20	1950	21.60	1949	3 23.10	26.70	1950	22.01	1952	3	24.37
O				1949	1 20.90				1949	1	24.40
N	21.60	1950	8.90	1951	3 15.13	22.20	1950	21.05	1951	3	21.43
D	14.80	1953	7.30	1949	4 11.05	29.30	1949	16.10	1949	4	23.72
Bottom											
J	9.20	1951	7.70	1951	2 8.45	28.60	1951	20.10	1951	2	24.50
F											
M				1949	1 7.60				1949	1	17.60
A	19.40	1949	16.35	1956	2 17.88	28.08	1956	27.10	1949	2	27.59
M											
J	27.60	1949	22.50	1949	3 24.74	31.70	1949	22.30	1949	3	28.15
J				1956	1 28.35						
A				1948	1 26.00				1948	1	32.70
S	25.80	1950	22.80	1949	2 24.30	29.40	1950	24.80	1949	2	27.10
O				1949	1 21.00				1949	1	26.40
N				1950	1 21.40				1950	1	25.10
D	11.80	1949	7.40	1949	2 9.90	29.30	1949	17.60	1949	2	23.45

Table 66.--Drum Inlet, 1962-64

[Temperatures are °C. and salinities are p.p.t.]

Temperature						Salinity				
No.	Max.	Year	Min.	Year	No. \bar{x}	Max.	Year	Min.	Year	No. \bar{x}
Surface										
J	13.00	1964	6.00	1963	4 9.13	33.10	1963	31.31	1963	2 32.21
F	1.00	1963	9.50	1964	4 10.38	32.56	1964	29.52	1963	3 31.53
M	14.51	1964	11.95	1964	4 13.24	34.88	1964	32.63	1963	4 33.82
A	16.29	1956	15.00	1964	4 15.70	34.85	1963	30.23	1956	1 32.77
M	23.38	1964	16.50	1963	4 18.83	35.09	1964	18.71	1964	4 30.16
J	24.24	1964	20.00	1963	5 22.25	37.16	1963	28.12	1963	5 33.84
J	27.70	1956	23.19	1964	7 25.26	36.73	1964	28.19	1963	7 34.92
A	30.00	1963	24.56	1964	8 27.21	37.63	1956	30.22	1962	8 34.81
S	26.50	1962	23.00	1962	4 24.88	35.93	1963	26.20	1963	3 31.17
O	24.00	1962	18.51	1963	5 20.10	32.54	1962	28.69	1963	5 30.59
N	16.50	1962	11.52	1963	3 13.67	31.58	1962	26.35	1963	3 29.64
L	12.03	1963	3.30	1962	4 9.12	32.03	1963	22.22	1963	4 28.07

Table 67.--Core Sound, S. Nelson Bay Light 29, 1948-56

[Temperatures are °C. and salinities are p.p.t.]

Temperature						Salinity					
Mo.	Max.	Year	Min.	Year	No. \bar{x}	Max.	Year	Min.	Year	No.	\bar{x}
Surface											
J	10.60	1953	6.80	1952	4 8.15	27.69	1952	18.40	1951	4	24.03
F				1952	1 10.70				1952	1	30.08
M	13.20	1951	8.00	1949	4 10.88	23.00	1951	20.80	1953	4	21.76
A	20.40	1951	16.41	1956	4 19.03	31.35	1952	27.16	1951	4	29.15
M	24.80	1953	20.20	1952	2 22.50	32.90	1953	32.81	1952	2	32.86
J	28.60	1949	21.20	1949	4 25.72	34.12	1952	23.19	1956	4	28.53
J				1952	1 30.80				1952	1	34.33
A	30.00	1953	27.00	1948	5 28.98	36.50	1948	35.00	1953	4	35.76
S	26.40	1950	22.30	1952	2 24.35	22.70	1950	21.76	1952	2	22.23
O	20.20	1948	20.10	1949	2 20.15	23.60	1948	23.50	1949	2	23.55
N	21.00	1950	9.40	1951	3 13.27	25.73	1951	22.60	1950	3	24.69
D	14.20	1953	7.60	1949	4 11.10	32.90	1949	16.60	1949	4	23.87
Bottom											
J	7.90	1951	7.40	1951	2 7.65	24.20	1951	18.60	1951	2	21.40
F											
M				1949	1 7.95				1949	1	21.70
A	19.20	1949	16.41	1956	2 17.80	30.12	1956	28.50	1949	2	29.31
M											
J	27.70	1949	21.20	1949	3 25.01	33.10	1949	23.17	1956	3	27.39
J											
A	28.40	1956	27.00	1948	2 27.70	36.10	1948	35.73	1956	2	35.92
S				1950	1 26.40				1950	1	23.30
O	20.10	1949	19.90	1948	2 20.00	24.20	1949	23.70	1948	2	23.95
N				1950	1 20.50				1950	1	22.60
D	11.60	1949	7.00	1949	2 9.30	33.00	1949	20.10	1949	2	26.55

Table 68.--Core Sound, E. Marshallberg, Light 37, 1949-56

[Temperatures are °C. and salinities are p.p.t.]

Temperature						Salinity					
Mo.	Max.	Year	Min.	Year	No. \bar{x}	Max.	Year	Min.	Year	No.	\bar{x}
Surface											
J	8.10	1951	6.80	1951	3 7.47	29.70	1951	22.90	1951	3	27.37
F				1952	1 10.80				1952	1	32.19
M	13.70	1951	8.70	1949	3 10.10	24.30	1951	19.15	1952	3	21.58
A	19.50	1952	14.85	1956	4 17.46	32.40	1949	31.46	1952	4	31.82
M				1952	1 19.70				1952	1	33.12
J	27.80	1949	21.40	1949	4 25.45	34.05	1952	27.50	1949	4	30.58
J				1952	1 30.60				1952	1	34.51
A	29.70	1953	28.90	1956	4 29.30	35.16	1952	34.90	1953	3	35.04
S	26.90	1950	21.10	1949	3 23.33	29.30	1950	21.89	1952	3	26.40
O				1949	1 20.10				1949	1	22.10
N	20.80	1950	8.80	1951	3 12.80	25.19	1951	22.00	1950	3	24.13
D	14.20	1953	7.30	1949	3 11.20	33.30	1949	17.80	1949	3	26.17
Bottom											
J	8.50	1951	6.80	1951	2 7.65	29.90	1951	22.90	1951	2	26.40
F											
M				1949	1 8.70				1949	1	21.50
A	19.00	1949	14.74	1956	2 16.87	32.50	1949	31.87	1956	2	32.18
M											
J	27.80	1949	26.41	1956	2 27.10	31.40	1949	29.54	1956	2	30.47
J											
A											
S	26.90	1950	21.10	1949	2 24.00	30.40	1950	28.10	1949	2	29.25
O				1949	1 20.10				1949	1	23.30
N				1950	1 20.80				1950	1	22.20
D	12.00	1949	6.80	1949	2 9.40	33.30	1949	20.60	1949	2	26.95

Table 69.--The Straits, off Sleepy Creek, Light 44, 1948-53

[Temperatures are °C. and salinities are p.p.t.]

Temperature						Salinity					
Mo.	Max.	Year	Min.	Year	No. \bar{x}	Max.	Year	Min.	Year	No.	\bar{x}
Surface											
J	8.40	1951	6.40	1951	2 7.40	29.80	1951	22.50	1951	2	26.15
F				1952	1 10.80				1952	1	32.39
M	13.80	1951	8.80	1949	4 11.08	26.20	1951	19.29	1952	4	22.52
A	21.00	1951	18.70	1949	3 19.53	32.10	1949	30.10	1951	3	31.40
M	24.80	1953	19.90	1952	2 22.35	34.00	1953	32.50	1952	2	33.25
J	27.00	1952	21.80	1949	3 25.00	34.05	1952	29.60	1949	3	31.95
J											
A	29.00	1953	27.50	1948	3 28.47	35.20	1948	34.60	1953	2	34.90
S	27.50	1950	21.20	1949	3 23.90	30.95	1951	27.90	1949	3	29.62
O				1949	1 20.40				1949	1	21.50
N	21.20	1950	9.20	1951	2 15.20	24.45	1951	22.20	1950	2	23.32
D	14.00	1953	11.60	1952	3 12.57	33.30	1949	22.40	1949	4	27.79
Bottom											
J	8.90	1951	7.20	1951	2 8.05	30.10	1951	22.80	1951	2	26.45
F											
M				1949	1 8.60				1949	1	21.10
A				1949	1 18.20				1949	1	32.80
M											
J	26.80	1949	21.70	1949	2 24.25	32.20	1949	29.80	1949	2	31.05
J											
A				1943	1 27.20				1948	1	35.40
S	26.80	1950	21.20	1949	2 24.00	31.70	1950	28.15	1949	2	29.92
O				1949	1 20.10				1949	1	22.40
N				1950	1 20.70				1950	1	22.20
D	12.20	1949	7.20	1949	2 9.70	33.30	1949	22.41	1949	2	27.86

Table 70.--North River off Harkers Island, 1949-53

[Temperatures are °C. and salinities are p.p.t.]

Temperature						Salinity					
Mo.	Max.	Year	Min.	Year	No. \bar{x}	Max.	Year	Min.	Year	No.	\bar{x}
Surface											
J	11.70	1953	6.50	1951	4 8.80	31.74	1952	18.33	1951	4	25.62
F				1952	1 11.00				1952	1	32.47
M	13.60	1951	9.00	1949	3 10.70	30.30	1951	21.43	1952	3	25.41
A	20.60	1951	16.50	1949	4 17.92	33.30	1949	31.03	1951	4	32.38
M	23.60	1953	19.60	1952	2 21.60	33.80	1953	32.71	1952	2	33.26
J	26.20	49/51	21.70	1949	3 24.70	34.05	1952	29.90	1949	3	32.12
J				1952	1 29.60				1952	1	34.60
A	29.10	1951	28.60	1952	2 28.85				1952	1	35.17
S	27.20	1950	21.30	1949	4 23.45	32.60	1950	25.52	1952	4	29.51
O				1949	1 20.40				1949	1	22.80
N	21.30	1950	10.70	1951	3 14.23	27.77	1951	25.40	1950	3	26.98
D	14.00	1953	7.40	1949	4 11.28	33.40	1953	25.70	1949	4	29.81
Bottom											
J	8.80	1951	7.90	1951	2 8.35	23.20	1951	18.46	1951	2	20.83
F											
M				1949	1 8.80				1949	1	24.60
A				1949	1 16.50				1949	1	33.60
M											
J	26.20	1949	21.60	1949	2 23.90	33.10	1949	31.1	1949	2	32.10
J											
A											
S	27.40	1950	21.30	1949	2 24.35	32.50	1950	28.30	1949	2	30.40
O				1949	1 20.70				1949	1	23.60
N				1950	1 21.30				1950	1	25.50
D	12.20	1949	7.30	1949	2 9.75	32.50	1949	26.00	1949	2	29.25

Table 71.--Beaufort Inlet, 1949-58

[Temperatures are °C. and salinities are p.p.t.]

Temperature						Salinity					
Mo.	Max.	Year	Min.	Year	No. \bar{x}	Max.	Year	Min.	Year	No. \bar{x}	
Surface											
J	15.60	1950	8.60	1951	15 13.10	33.27	1951	28.06	1958	15 30.99	
F	13.90	1950	7.00	1951	10 10.70	33.85	1950	28.10	1951	10 32.46	
M	13.20	1950	8.70	1950	16 11.40	34.34	1950	32.42	1950	16 33.40	
A	17.30	1950	14.40	1950	11 16.10	34.13	1950	31.04	1956	11 33.20	
M	33.60	1950	18.40	1949	31 22.40	34.85	1950	24.00	1950	31 33.27	
J	32.70	1950	22.80	1957	14 27.00	35.34	1957	27.10	1950	14 33.44	
J	29.20	1950	24.20	1957	17 26.60	34.02	1949	18.23	1950	17 29.47	
A	30.00	1950	24.50	1950	17 27.60	34.78	1950	31.06	1950	15 33.66	
S	26.20	1949	21.40	1950	12 23.40	33.95	1949	27.40	1949	11 31.36	
O	25.20	1949	20.50	1949	15 22.20	34.05	1949	27.32	1950	11 31.26	
N	27.80	1949	13.40	1949	12 19.90	33.17	1949	29.99	1950	7 31.66	
D	11.90	1949	7.50	1950	7 10.60	33.84	1949	25.05	1949	7 30.83	
Bottom											
J	9.40	1951	8.60	1951	3 8.90	33.39	1951	30.84	1958	3 32.12	
F	13.60	1950	7.40	1951	8 9.90	34.57	1964	30.73	1950	8 33.18	
M											
A	16.50	1949	14.00	1950	5 15.10	34.50	1949	31.94	1956	5 33.39	
M	25.50	1950	18.20	1949	8 21.60	34.30	1949	30.30	1949	7 31.85	
J				1956	1 23.18				1956	1 33.48	
J	29.00	1950	23.90	1957	13 26.40	34.54	1950	24.16	1950	13 31.91	
A	29.80	1950	23.80	1950	13 27.10	35.10	1949	32.14	1956	11 33.99	
S	26.40	1949	20.60	1950	12 23.30	35.00	1949	31.10	1949	11 32.55	
O	25.00	1949	20.20	1949	14 22.00	35.10	1949	28.65	1950	11 31.78	
N	27.70	1949	13.00	1949	12 19.80	33.64	1949	30.62	1950	8 32.28	
D	11.80	1949	7.60	1950	7 10.50	34.07	1949	28.57	1949	7 32.25	

Table 72.--Newport River, Core Creek Entrance at Light 24, 1948-61

[Temperatures are °C. and salinities are p.p.t.]

Temperature						Salinity					
Mo.	Max.	Year	Min.	Year	No. \bar{x}	Max.	Year	Min.	Year	No.	\bar{x}
Surface											
J	12.80	1949	4.79	1956	14 8.11	29.79	1957	17.09	1952	15	22.66
F	14.70	1957	4.50	1961	11 10.25	25.40	1954	10.17	1960	12	21.07
M	17.00	1961	4.59	1960	12 12.55	32.72	1961	11.02	1960	12	20.83
A	21.70	1960	13.00	1961	9 17.75	30.30	1952	19.45	1959	9	26.04
M	26.54	1959	16.21	1957	7 22.58	31.06	1959	10.81	1958	7	21.39
J	31.00	1949	20.50	1949	15 25.80	34.34	1959	12.16	1949	15	24.69
J	30.32	1958	26.45	1959	14 28.71	35.25	1957	22.30	1949	13	29.05
A	30.70	1958	25.40	1960	15 28.24	34.76	1958	18.55	1959	14	27.24
S	28.50	1953	20.60	1956	18 25.25	35.28	1957	13.62	1958	18	24.44
O	23.70	1951	15.00	1960	10 20.56	27.70	1960	13.46	1949	10	21.50
N	22.00	1950	11.16	1959	17 15.37	30.64	1960	11.33	1958	18	22.81
D	14.10	1948	2.70	1958	18 9.88	30.50	1960	12.20	1948	18	21.12
Bottom											
J	12.80	1949	2.20	1961	13 7.94	32.09	1961	21.10	1951	13	25.92
F	14.80	1957	3.80	1961	11 10.28	28.31	1958	11.17	1960	10	23.16
M	15.40	1961	5.39	1960	12 12.34	31.82	1961	13.73	1956	10	23.03
A	20.20	1949	13.00	1961	8 16.34	32.70	1961	21.17	1959	8	27.80
M	25.45	1959	17.01	1957	7 22.00	32.03	1959	23.32	1958	7	28.38
J	29.70	1949	19.67	1958	15 25.10	34.33	1959	23.70	1949	14	29.68
J	29.88	1958	25.10	1960	13 28.26	34.69	1957	24.30	1949	13	30.03
A	30.30	1958	24.90	1960	14 27.79	34.94	1958	19.89	1958	14	29.89
S	28.05	1958	21.20	1956	16 24.54	34.74	1957	19.79	1960	16	28.41
O	23.35	1955	16.60	1960	8 20.94	30.01	1960	22.27	1960	8	26.32
N	21.90	1950	7.40	1951	18 14.88	31.60	1960	11.29	1958	17	25.90
D	15.20	1948	3.60	1960	17 10.06	32.09	1960	20.37	1948	17	25.99

Table 73.--Bogue Sound, Institute of Marine Sciences Pier, 1949-66

[Temperatures are °C. and salinities are p.p.t.]

Temperature						Salinity					
Mo.	Max.	Year	Min.	Year	No. \bar{x}	Max.	Year	Min.	Year	No.	\bar{x}
Surface											
J	25.70	1965	4.00	1966	86 11.20	35.00	1966	25.40	1954	87	30.90
F	15.80	1955	4.90	1966	57 11.30	34.20	1954	23.33	1963	53	29.88
M	20.00	1953	8.50	50/62	62 13.50	34.60	1950	24.72	1952	61	29.72
A	25.20	1954	13.00	1958	68 18.30	34.40	1955	20.68	1958	74	30.84
M	28.20	1953	15.80	1957	90 23.20	35.71	1957	9.52	1964	99	31.95
J	33.00	1951	18.50	1958	136 26.50	37.50	1955	25.10	1949	144	33.60
J	33.20	1953	23.70	1965	169 28.60	38.40	1954	18.44	1950	171	31.94
A	33.40	1951	21.40	1949	163 28.10	38.73	1961	17.50	1955	163	32.32
S	32.00	1951	19.00	1950	112 25.70	37.10	1956	13.60	1955	117	30.24
O	27.60	1954	12.50	1962	78 20.70	35.50	1954	22.86	1963	98	30.47
N	25.40	1949	7.80	1950	85 15.30	36.30	1954	18.20	1964	86	30.92
D	19.20	1951	5.00	1962	86 10.80	39.30	1963	23.22	1958	87	30.99
Bottom											
J	25.70	1965	5.80	1965	22 11.00	32.96	1965	27.43	1962	19	30.43
F	14.90	1950	4.60	1966	18 10.10	33.78	1964	23.96	1963	14	30.08
M	18.45	1949	8.40	1950	28 12.20	34.81	1950	25.18	1966	27	30.61
A	21.79	1964	13.00	1958	32 16.70	34.73	1950	24.70	1965	25	31.55
M	25.40	1964	15.80	1957	39 22.30	34.83	1950	10.08	1964	35	30.87
J	28.50	49/50	20.00	1958	35 25.20	34.76	1950	25.03	1949	30	31.72
J	31.50	1949	23.10	1965	48 27.60	34.97	1956	18.72	1950	43	27.09
A	30.00	1950	21.20	1949	59 27.30	36.83	1961	26.76	1950	55	32.51
S	27.30	1950	18.80	1950	31 23.90	35.10	1965	27.78	1964	30	31.44
C	25.20	1961	14.96	1964	21 20.20	35.25	1949	26.70	1964	20	31.13
N	25.30	1949	9.29	1955	39 15.60	34.50	1965	18.30	1964	35	30.93
D	15.10	1963	5.10	1958	33 9.20	35.74	1965	27.92	1962	34	31.12

Table 74.--Bogue Sound, Gales Creek at highway bridge, south side, 1964-65

[Temperatures are °C. and salinities are p.p.t.]

Temperature						Salinity					
Mo.	Max.	Year	Min.	Year	No. \bar{x}	Max.	Year	Min.	Year	No.	\bar{x}
Surface											
J											
F				1965	1 9.15	28.51	1965	26.35	1964	2	27.43
M				1965	1 13.82				1965	1	26.18
A				1964	1 22.88				1964	1	28.44
M											
J				1964	1 27.22				1964	1	32.74
J	26.90	1963	26.56	1964	2 26.73				1964	1	35.00
A				1964	1 26.02				1964	1	33.01
S				1964	1 22.39				1964	1	32.24
O				1951	1 22.50				1951	1	23.00
N				1964	1 14.88				1964	1	28.56
E											
Bottom											
J											
F				1965	1 9.00	28.51	1965	26.14	1964	2	27.48
M				1965	1 13.82				1965	1	26.18
A				1964	1 22.88				1964	1	28.44
M											
J				1964	1 27.29				1964	1	32.61
J				1964	1 26.70				1964	1	31.10
A				1964	1 25.33				1964	1	34.41
S				1964	1 21.77				1964	1	32.74
O											
N				1964	1 15.23				1964	1	28.92
D											

Table 75.--Bogue Sound, Broad Creek, mouth at Inland Waterway, Marker 26, 1952-57

[Temperatures are °C. and salinities are p.p.t.]

Temperature					Salinity							
Mo.	Max.	Year	Min.	Year	No.	\bar{x}	Max.	Year	Min.	Year	No.	\bar{x}
Surface												
J				1952	1	8.20				1952	1	30.71
F				1953	1	11.20						
M												
A				1952	1	20.20				1952	1	27.00
M				1957	1	26.50				1957	1	33.96
J				1952	1	28.00				1952	1	33.13
J				1952	1	27.00				1952	1	30.08
A												
S												
O												
N												
D												
Bottom												
J												
F				1953	1	13.10				1953	1	28.90
M												
A												
M												
J												
J	31.80	1952	26.80	1952	3	29.27	34.13	1952	30.50	1952	3	32.06
A				1952	1	29.10				1952	1	33.97
S				1952	1	22.80				1952	1	28.98
O												
N												
E				1952	1	10.20				1952	1	27.71

Table 76.--Bogue Sound, Light 37 off Goose Creek, 1956-65

[Temperatures are °C. and salinities are p.p.t.]

Temperature					Salinity							
Mo.	Max.	Year	Min.	Year	No.	\bar{x}	Max.	Year	Min.	Year	No.	\bar{x}
Surface												
J												
F				1965	1	9.26	29.68	1965	24.96	1964	3	26.67
M				1965	1	12.17				1965	1	27.74
A				1964	1	22.93				1964	1	31.10
M												
J	26.53	1964	21.13	1956	2	25.33	34.29	1964	33.77	1956	2	34.03
J	28.53	1956	26.55	1964	2	27.54	35.26	1956	32.50	1964	3	33.15
A	29.00	1956	26.88	1964	4	28.17	35.80	1964	32.84	1963	5	34.54
S	28.52	1956	21.82	1964	2	25.17	36.24	1956	30.95	1964	2	33.60
O												
N				1964	1	15.35				1964	1	29.73
D				1963	1	5.90						
Bottom												
J												
F				1965	1	9.10	29.71	1965	25.13	1964	2	27.12
M				1965	1	12.17				1965	1	27.88
A				1964	1	21.06				1964	1	32.83
M												
J	25.59	1964	21.02	1956	2	24.80	34.14	1964	33.73	1956	2	33.94
J	28.76	1956	26.10	1964	2	27.58	35.52	1956	32.50	1964	2	34.01
A	28.93	1956	26.12	1964	3	27.81	36.00	1956	33.23	1963	3	34.92
S				1964	1	21.05				1964	1	31.68
O												
N				1964	1	15.27				1964	1	29.66
D				1963	1	6.00						

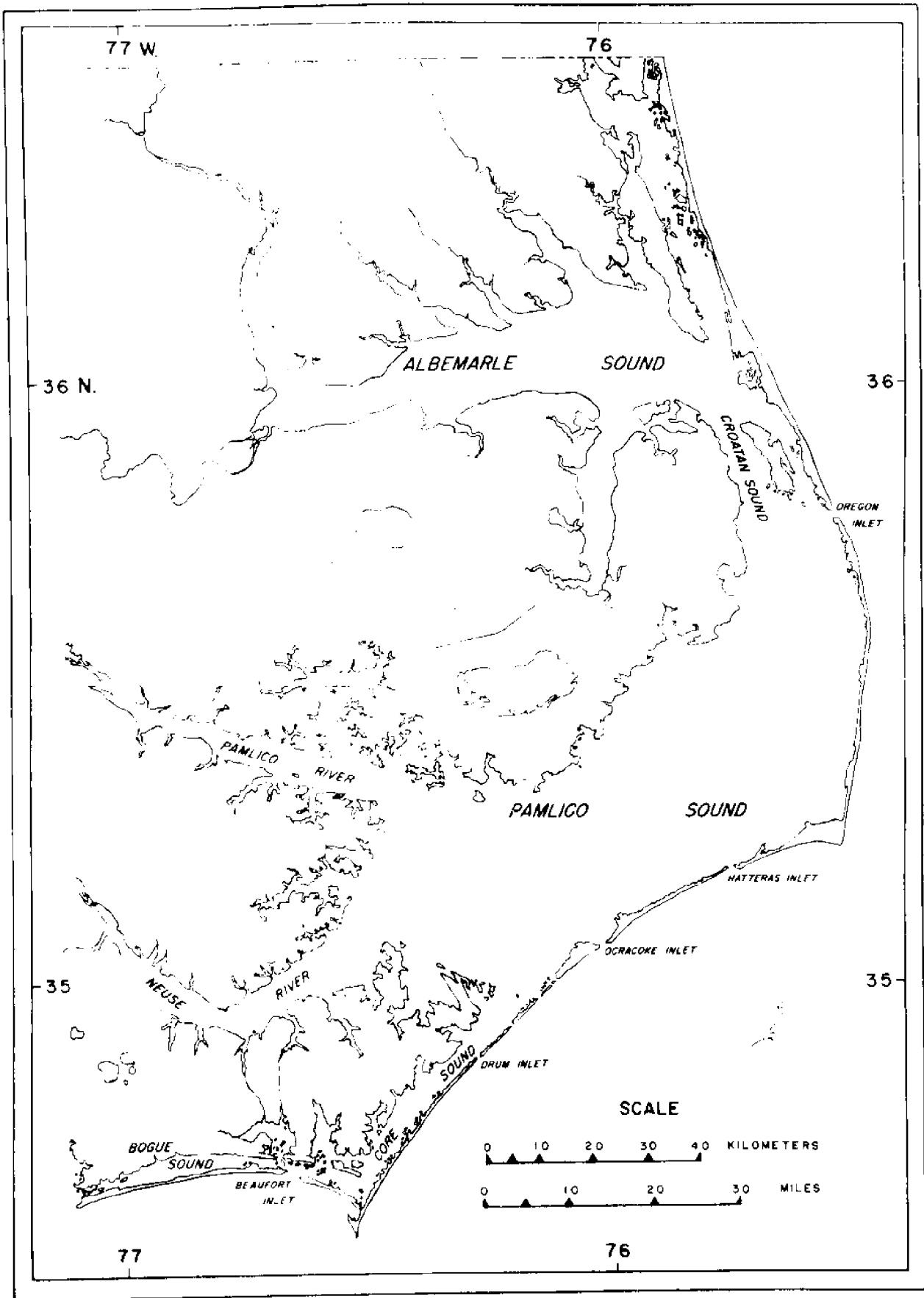


Figure 1.--Map of eastern North Carolina showing larger sounds, inlets, and tributaries from Virginia State line southward to Bogue Sound.

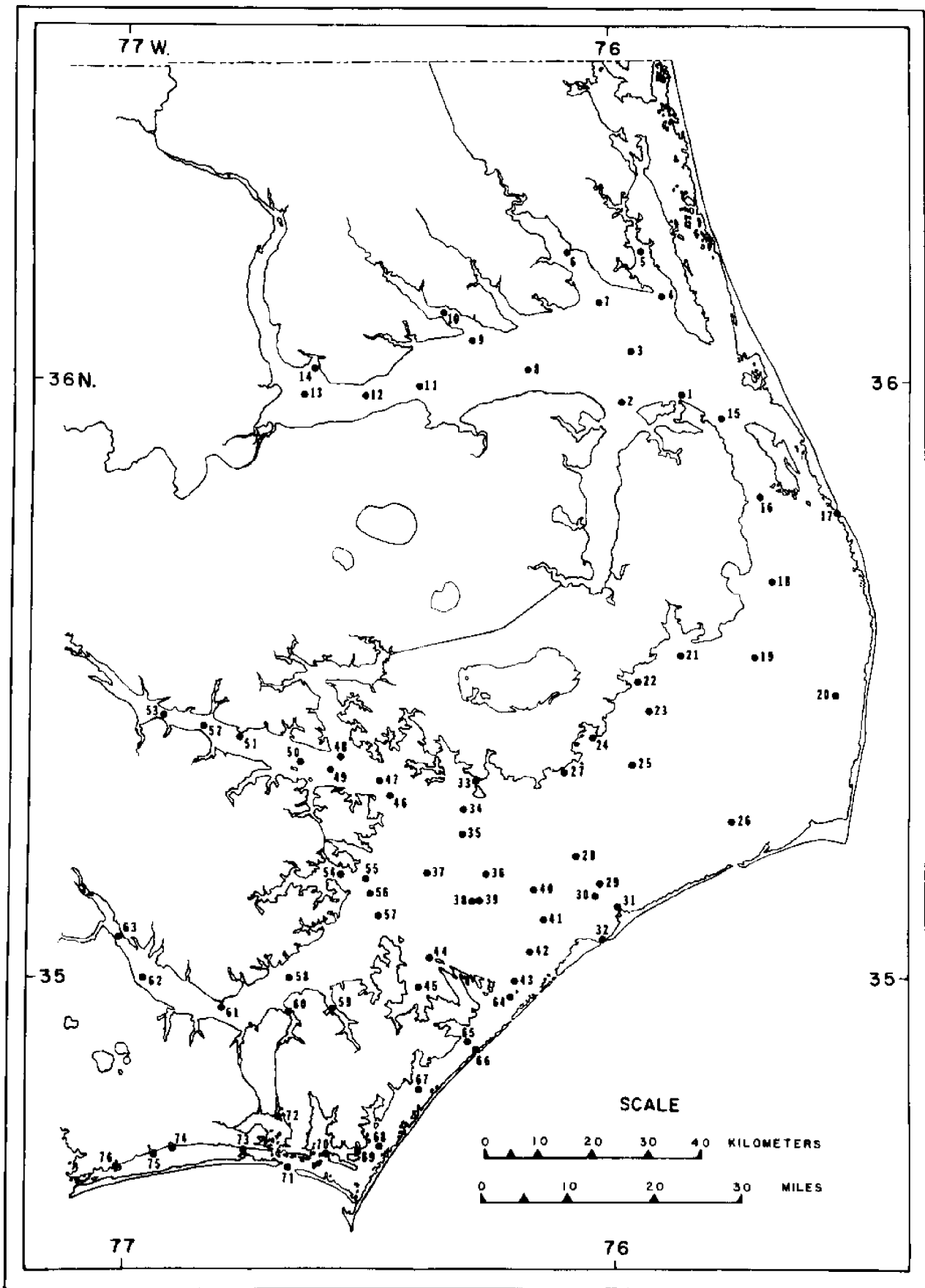


Figure 2.--Numbered localities represent fixed sampling stations listed in same sequence as accompanying tables. Dotted contour represents approximately 3.7 m. (12-foot) depth.

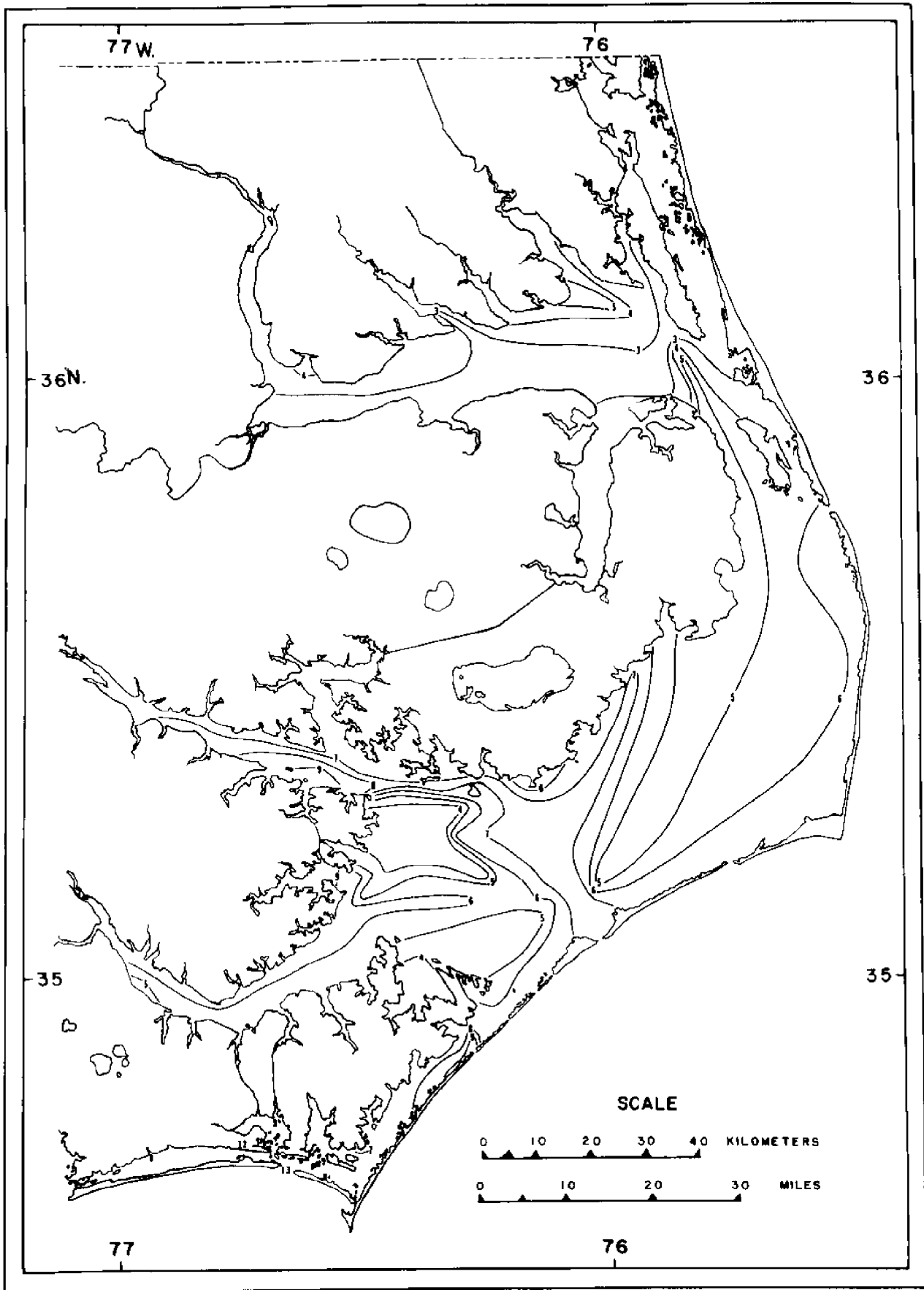


Figure 3.--Surface isotherms in °C., January.

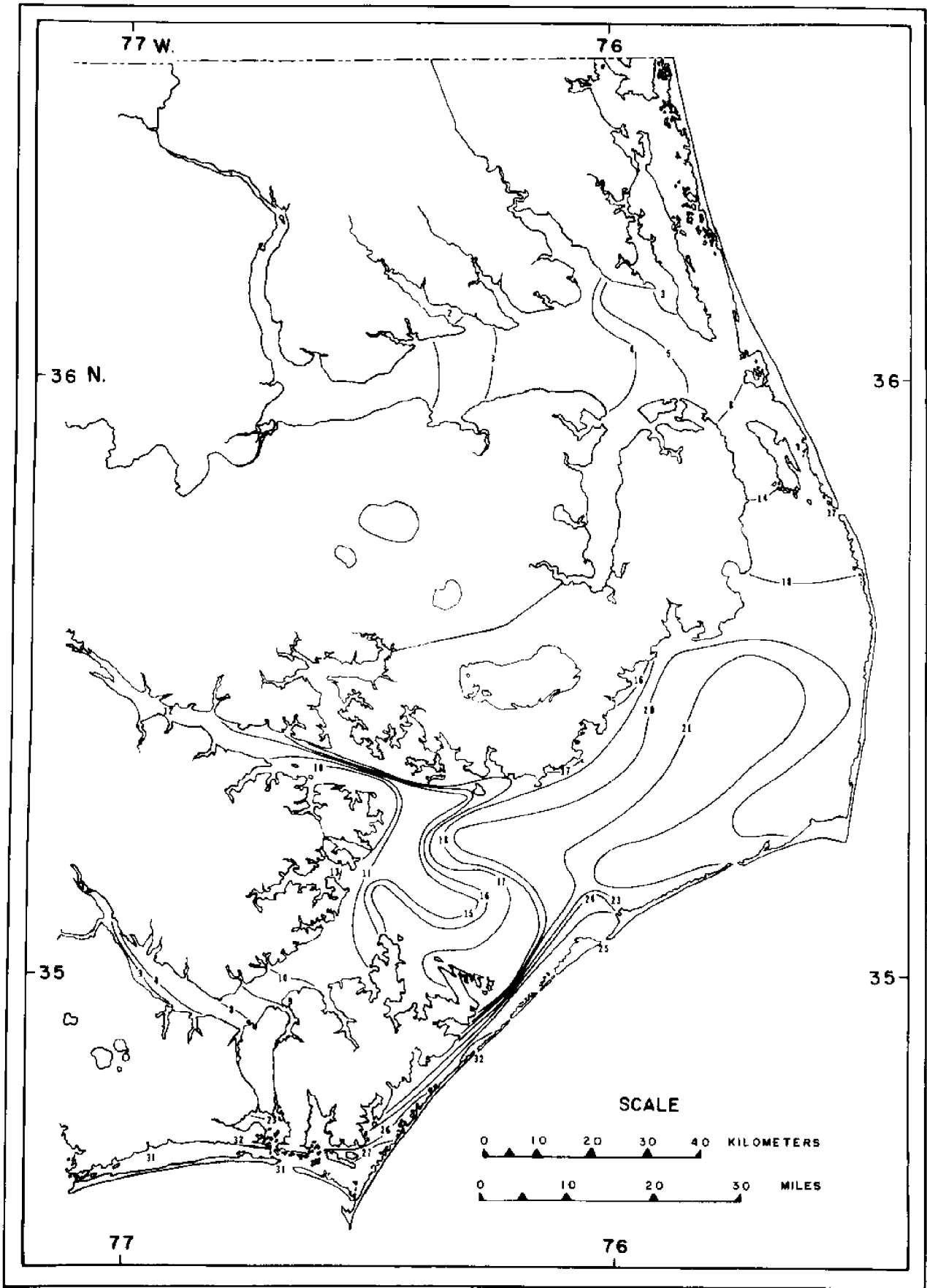


Figure 4.--Surface isohalines in p.p.t., January.

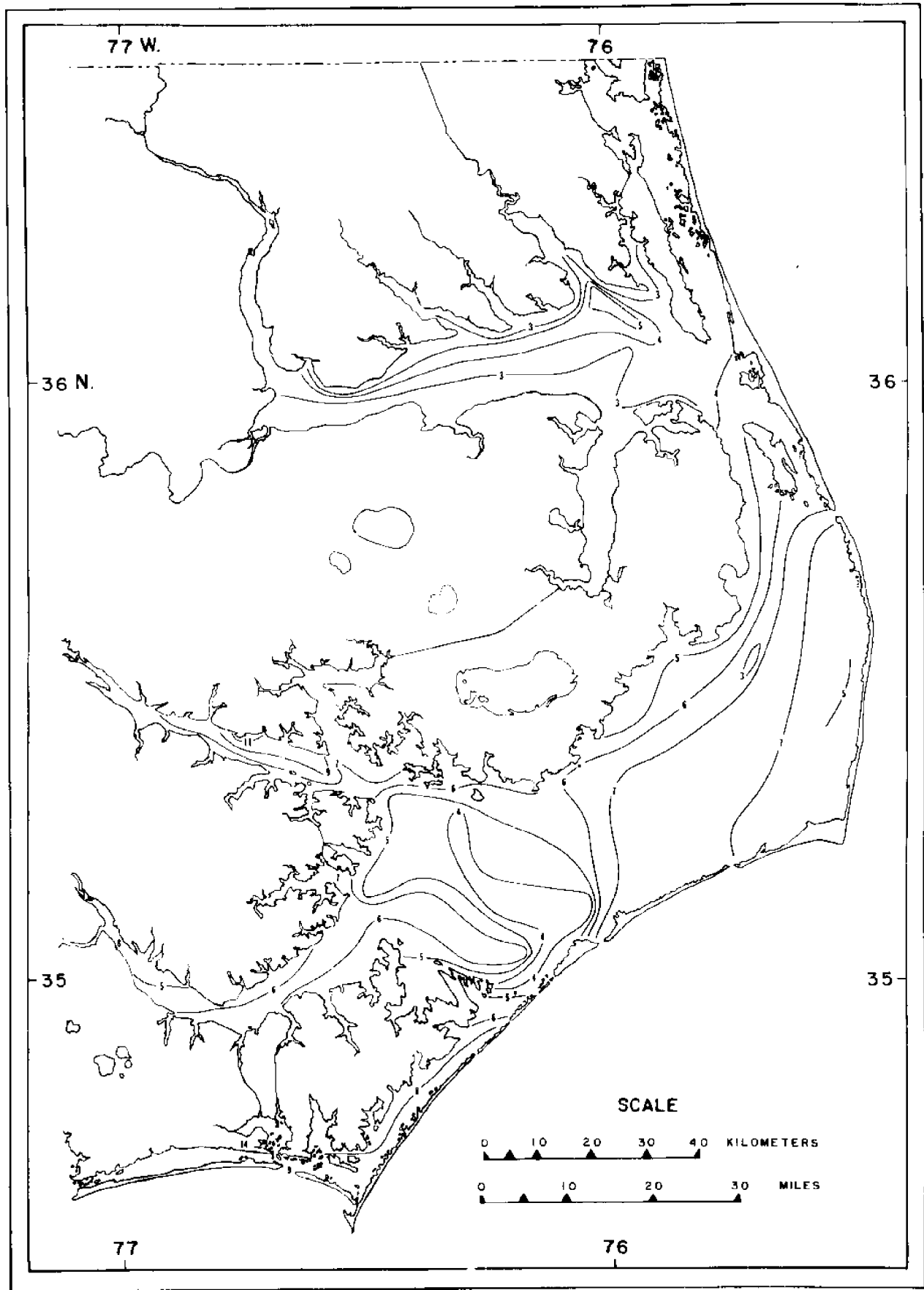


Figure 5.--Bottom isotherms in °C., January.

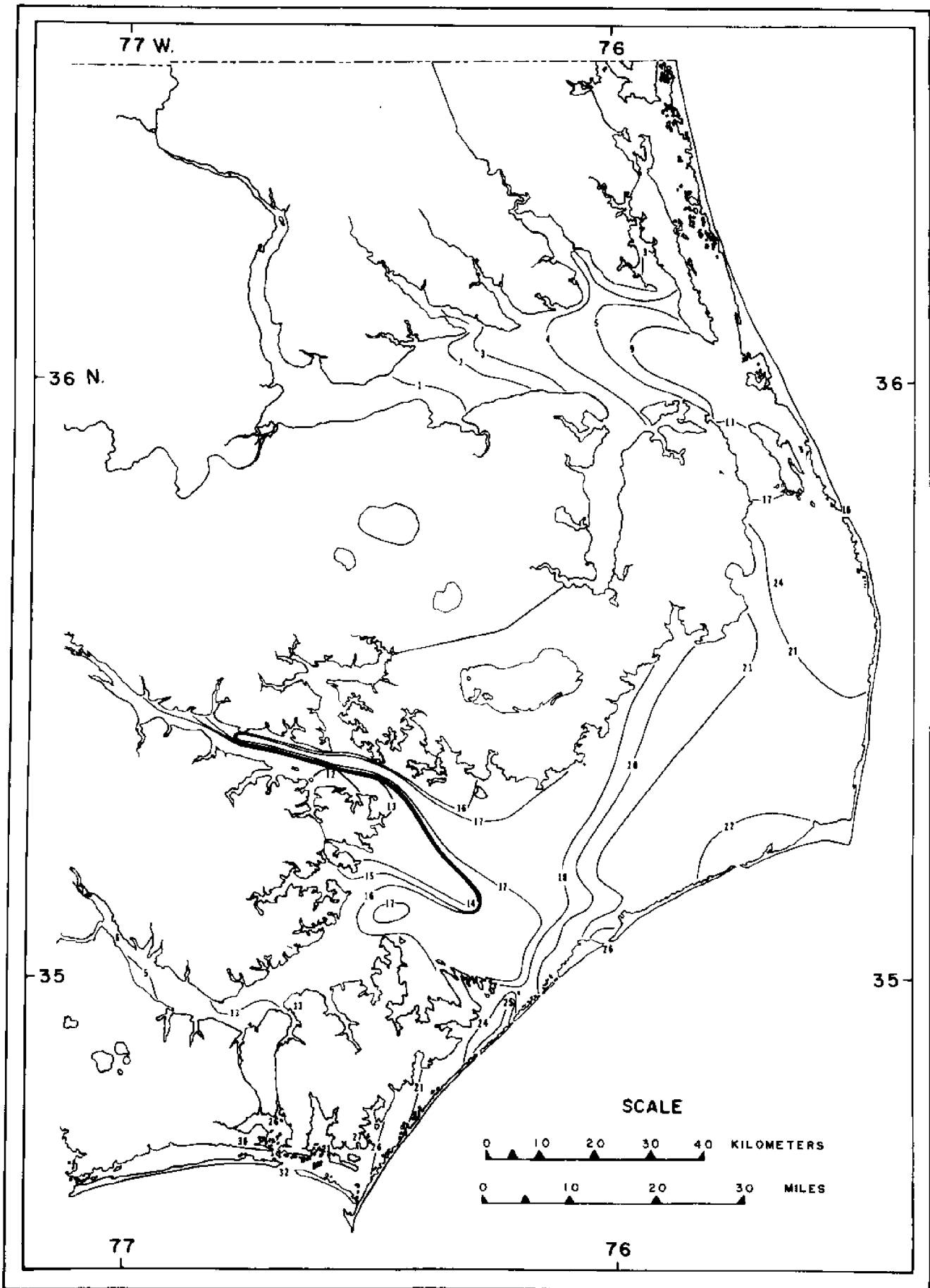


Figure 6.--Bottom isohalines in p.p.t., January.

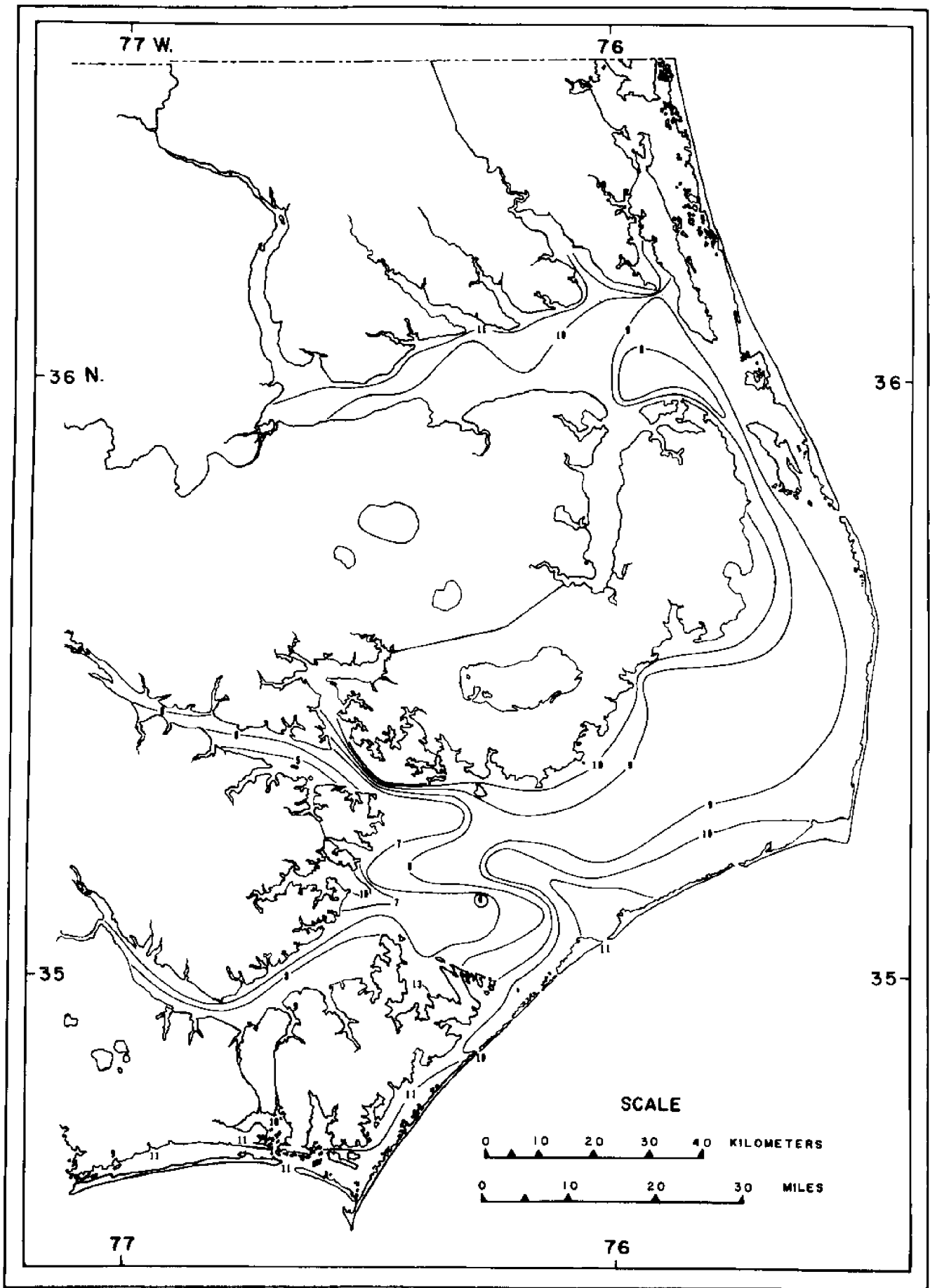


Figure 7.--Surface isotherms in °C., February.

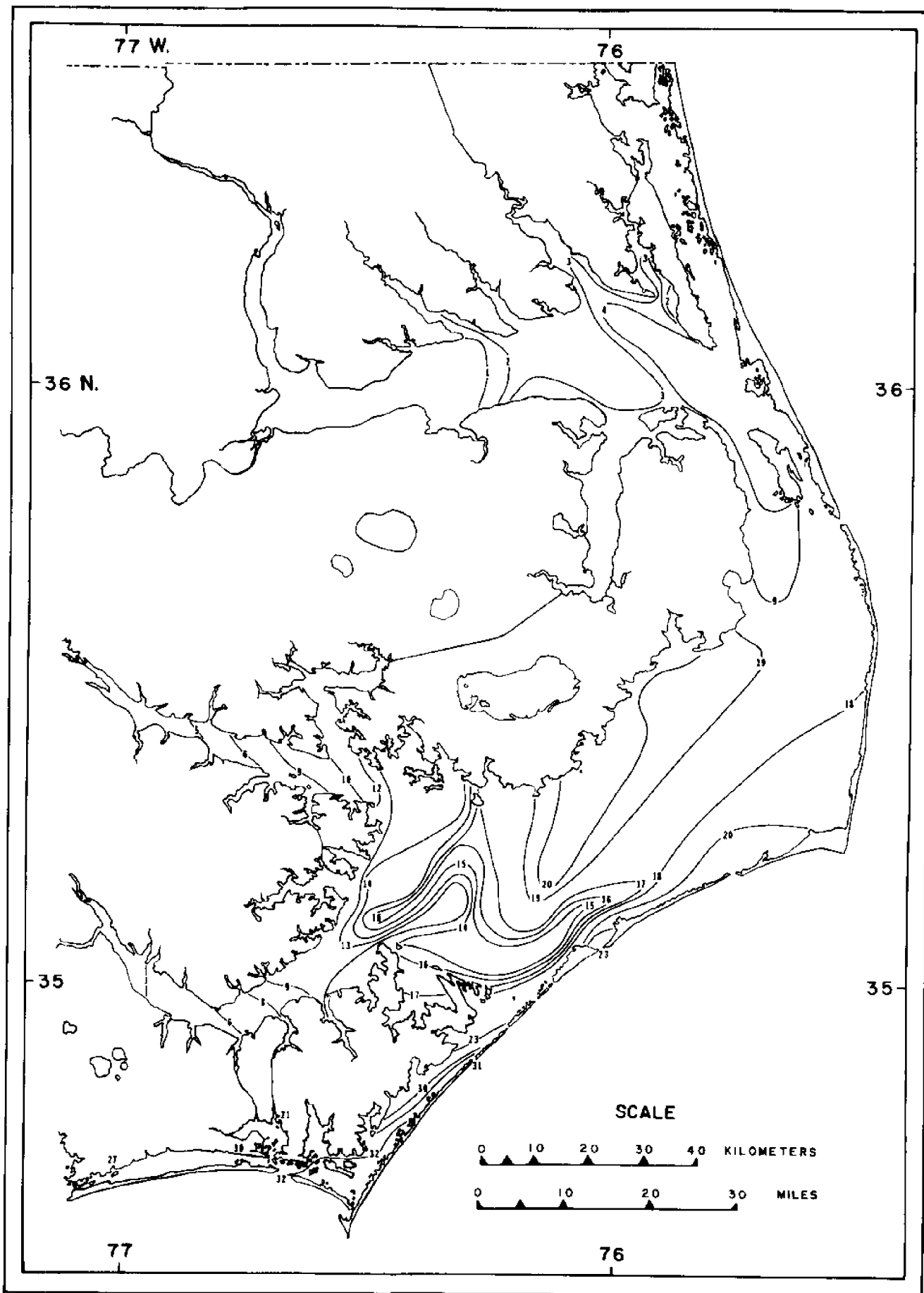


Figure 8.--Surface isohalines in p.p.t., February.

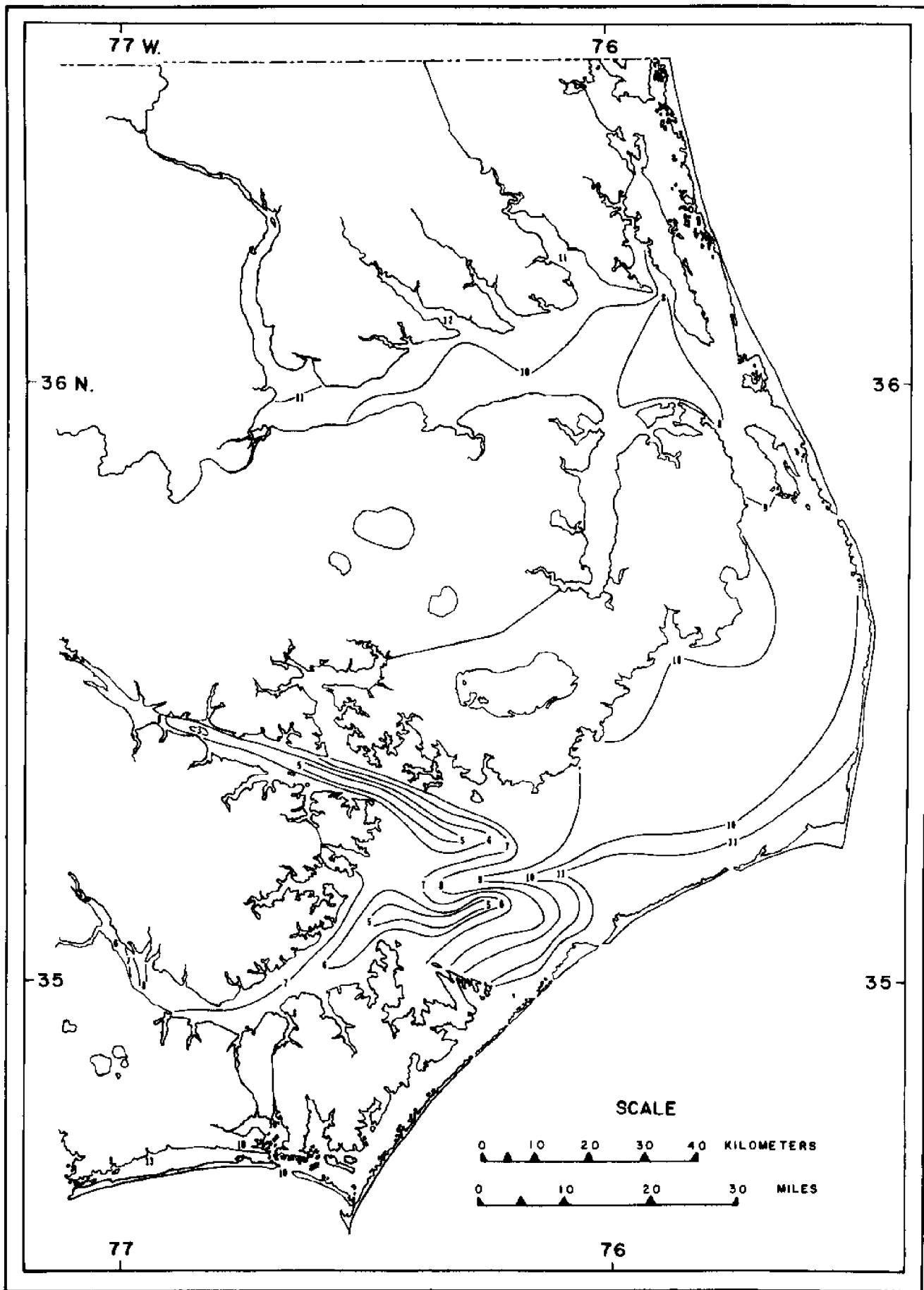


Figure 9.--Bottom isotherms in °C., February.

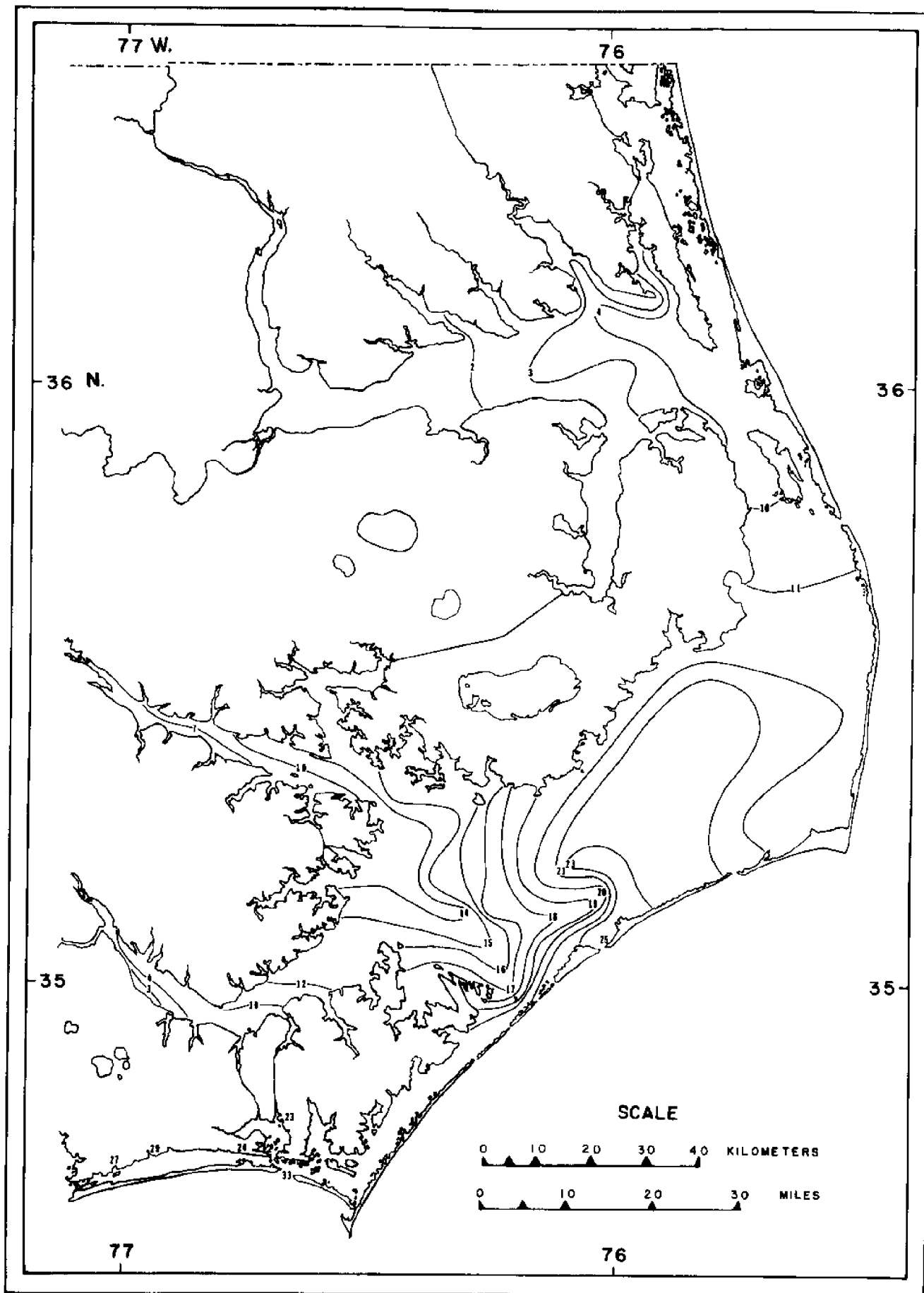


Figure 10.--Bottom isochalines in p.p.t., February.

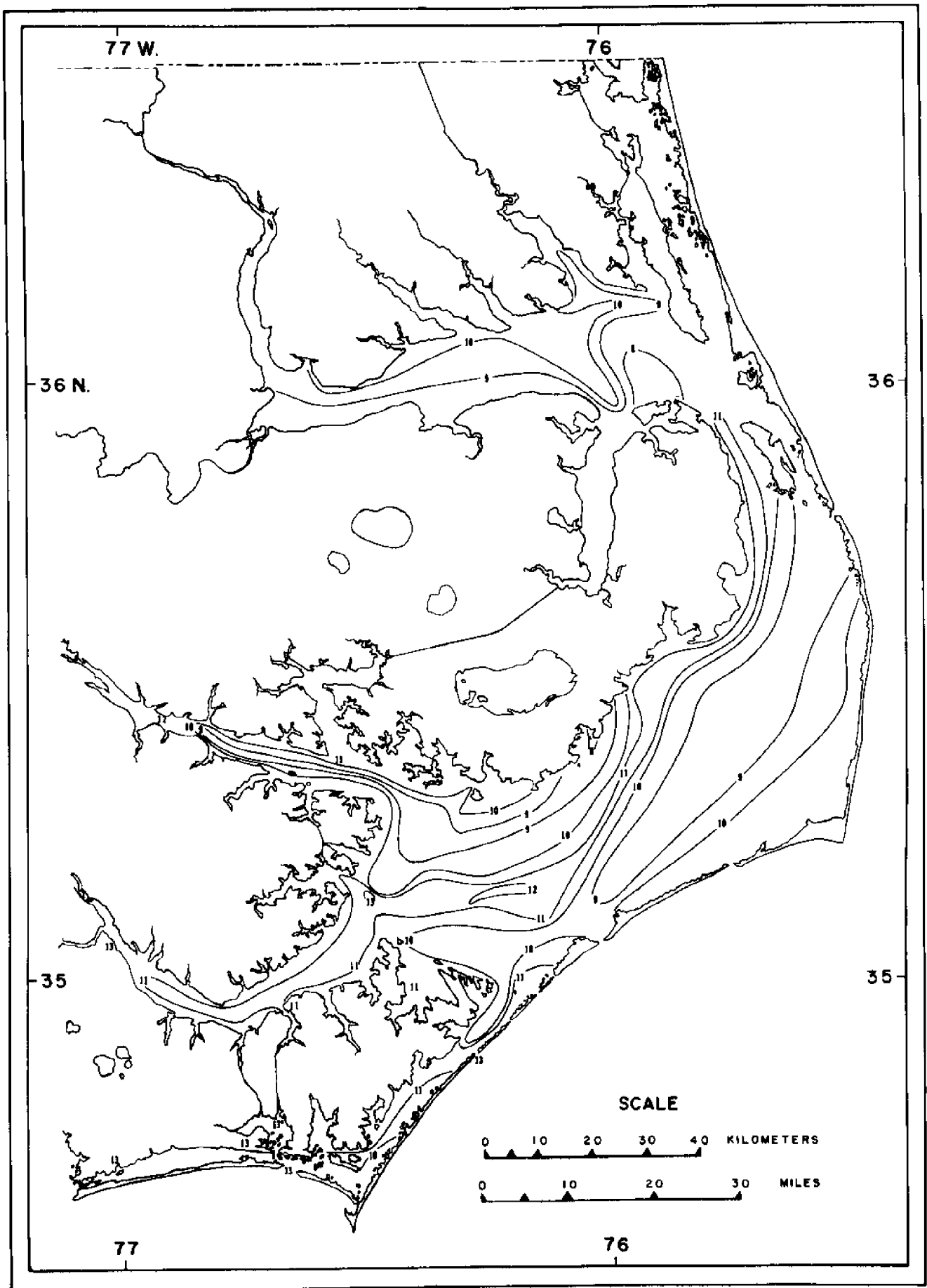


Figure 11.--Surface isotherms in °C., March.

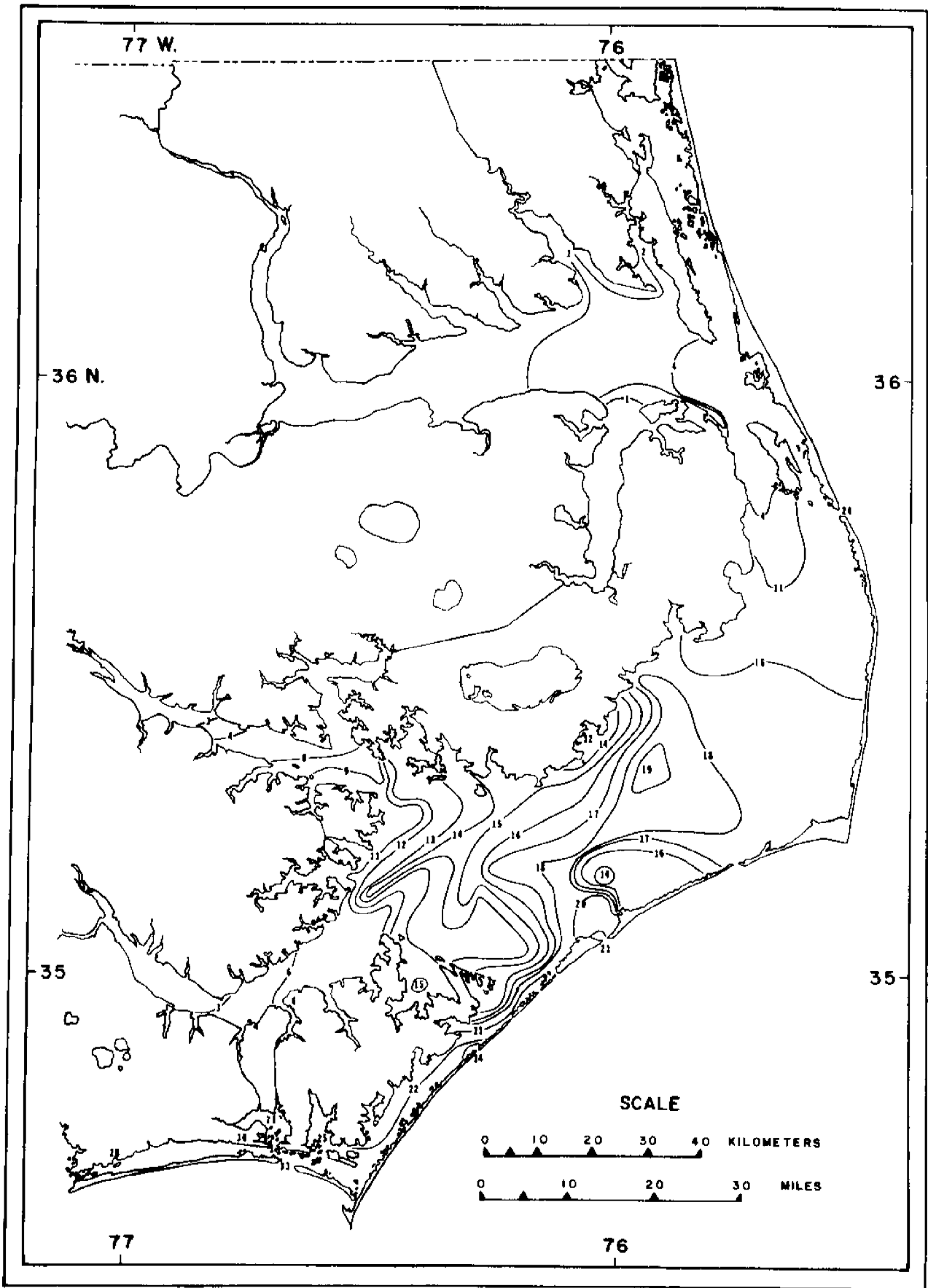


Figure 12.--Surface isohalines in p.p.t., March.

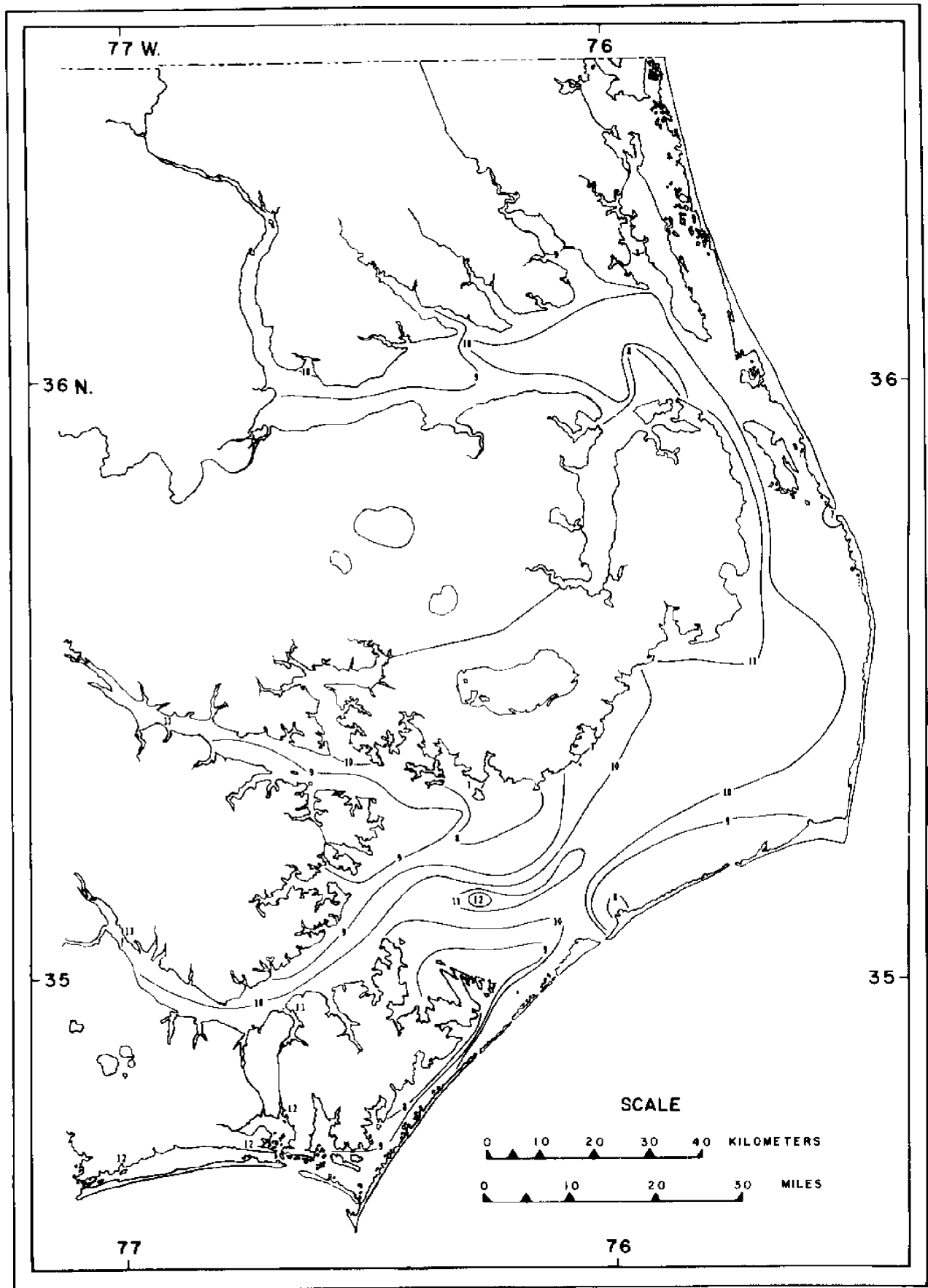


Figure 13.--Bottom isotherms in °C., March.

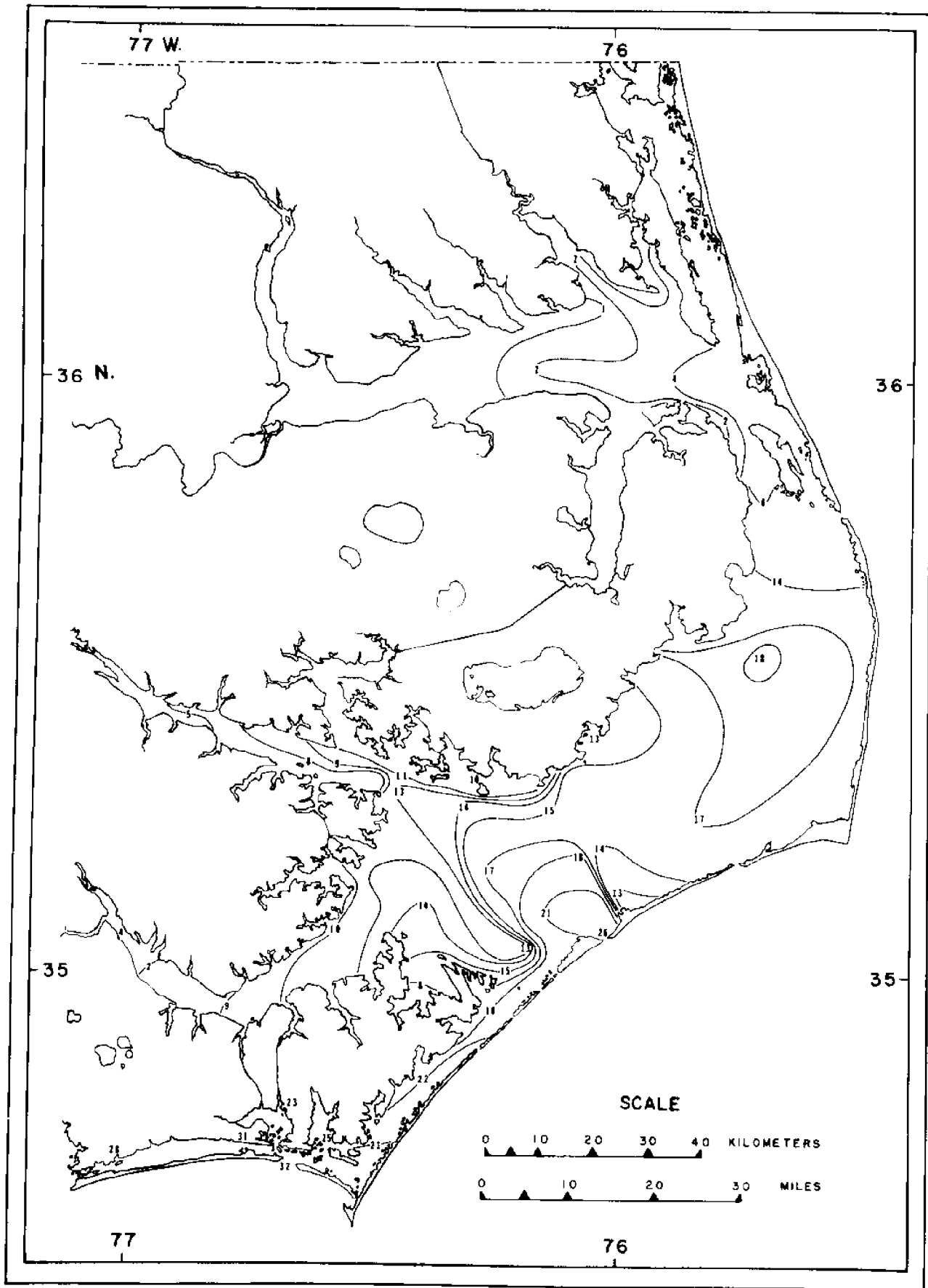


Figure 14.--Bottom isohalines in p.p.t., March.

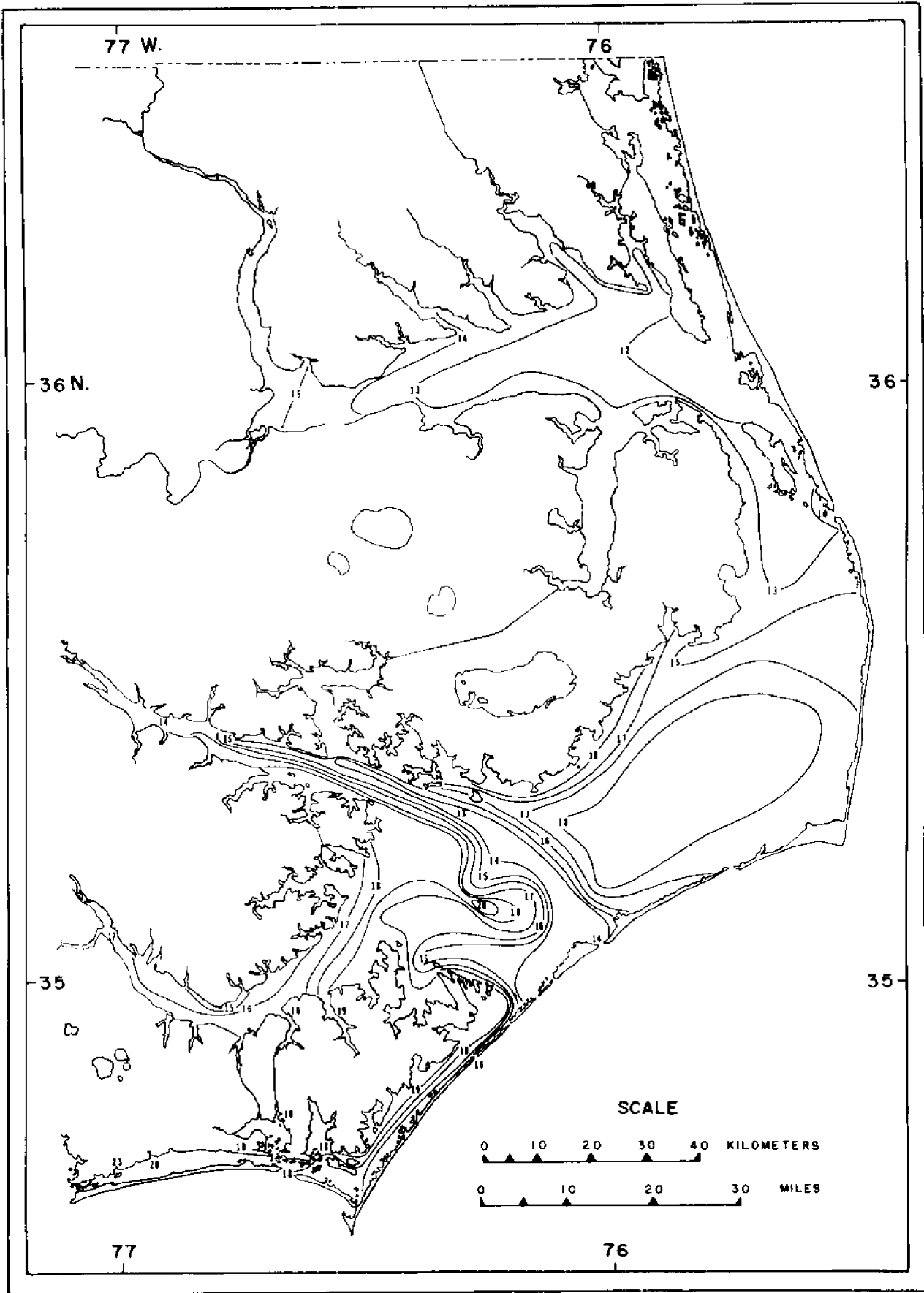


Figure 15.--Surface isotherms in °C., April.

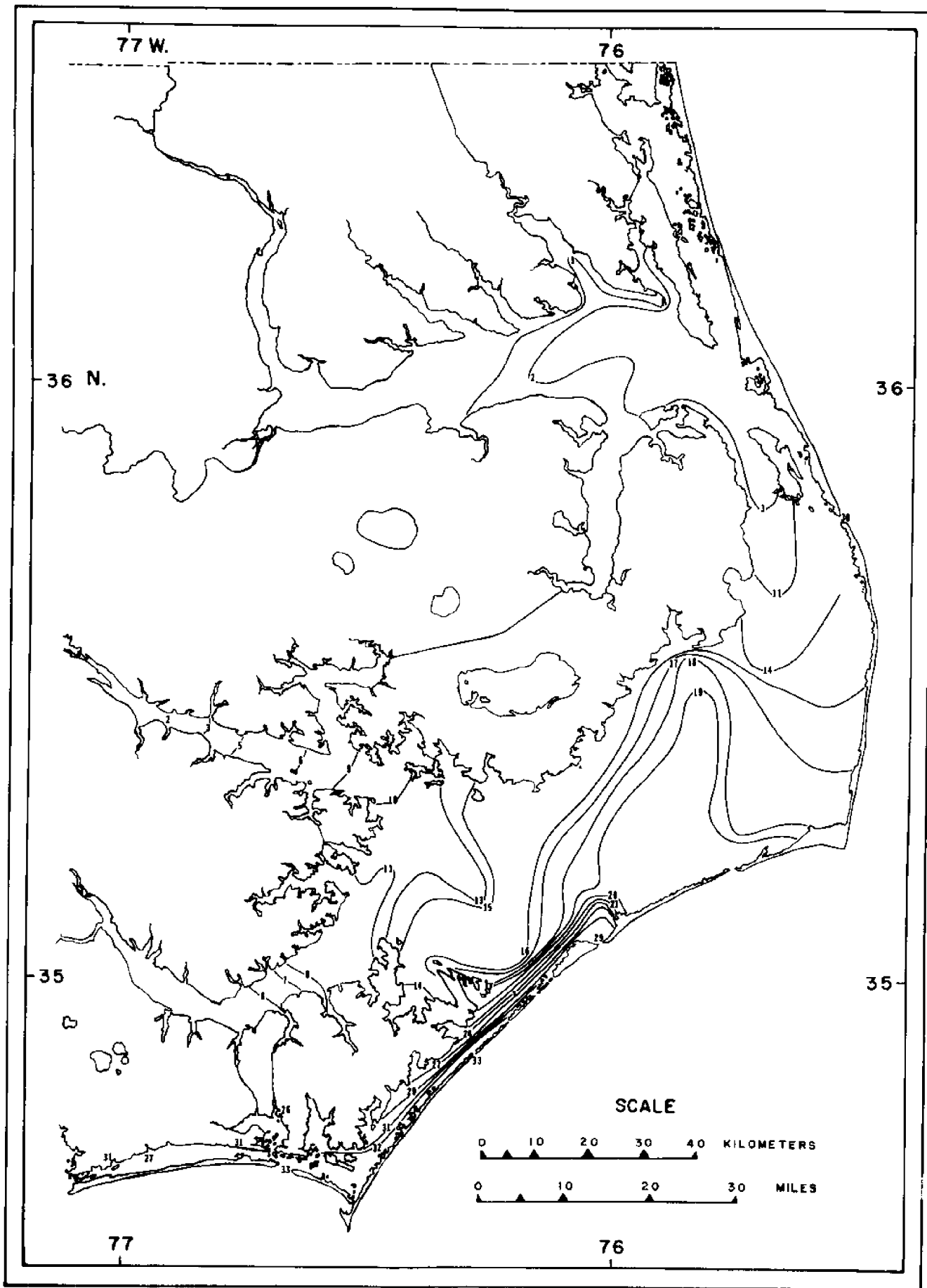


Figure 16.--Surface isohalines in p.p.t., April.

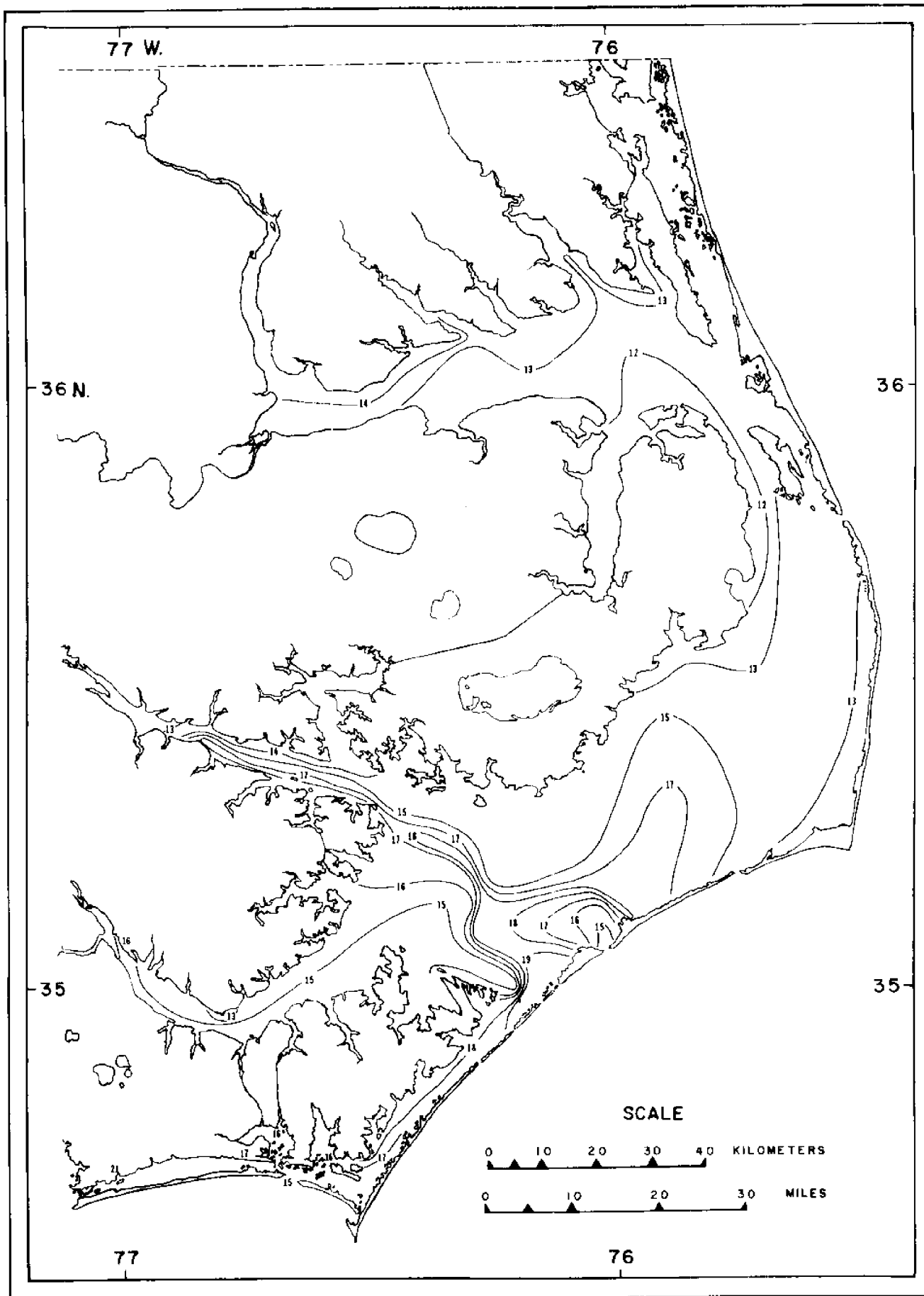


Figure 17.--Bottom isotherms in °C., April.

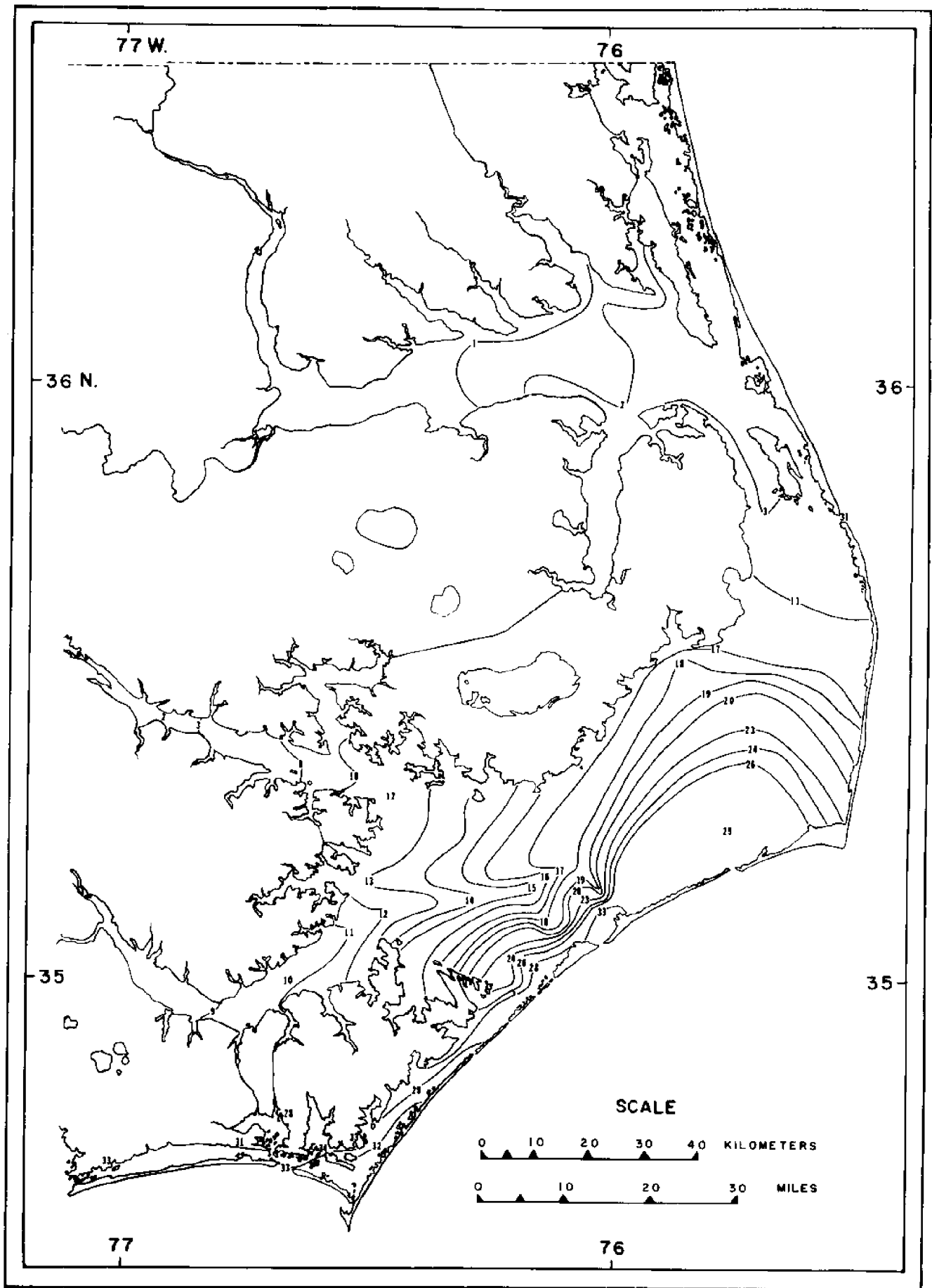


Figure 18.--Bottom isohalines in p.p.t., April.

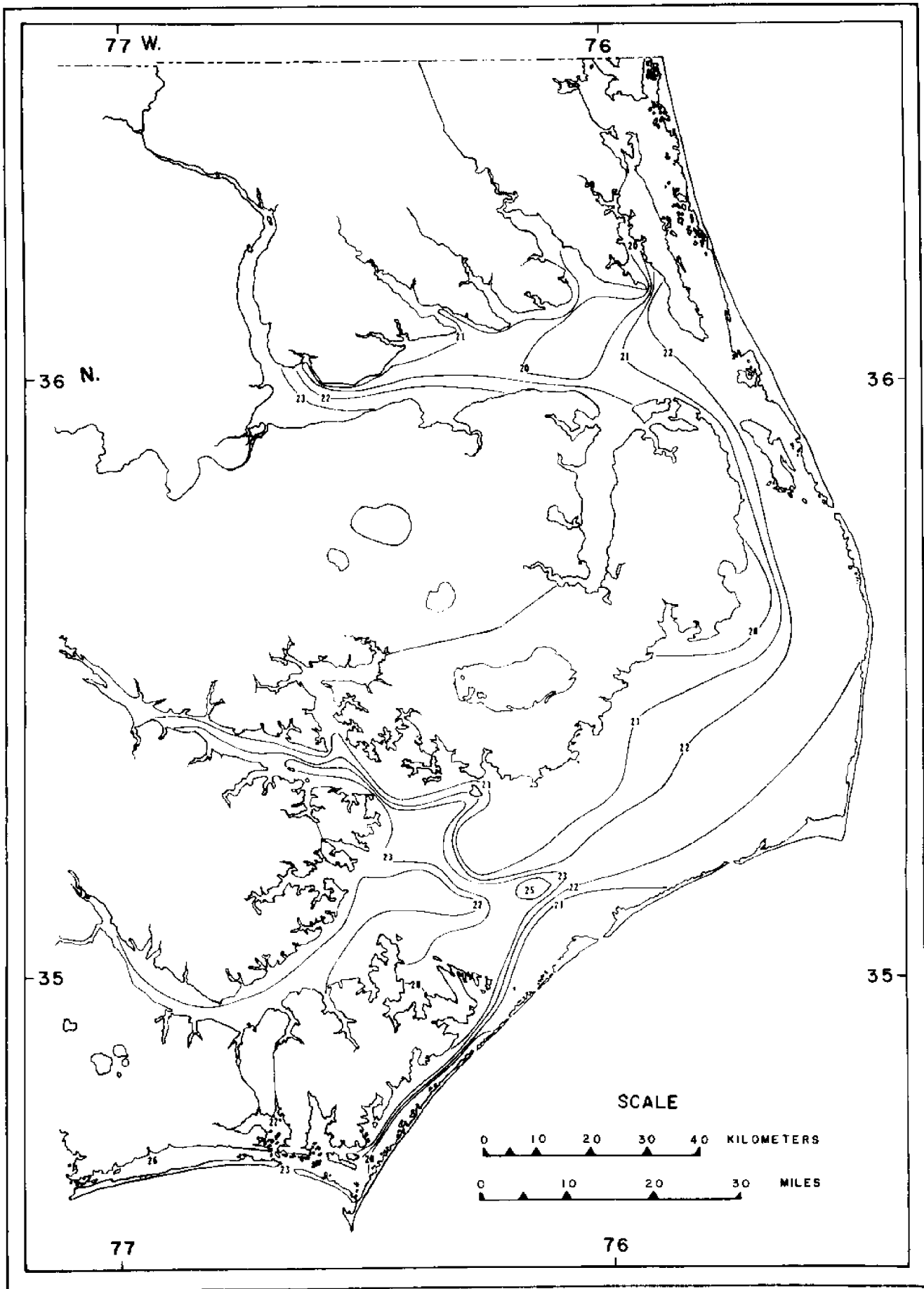


Figure 19.--Surface isotherms in °C., May.

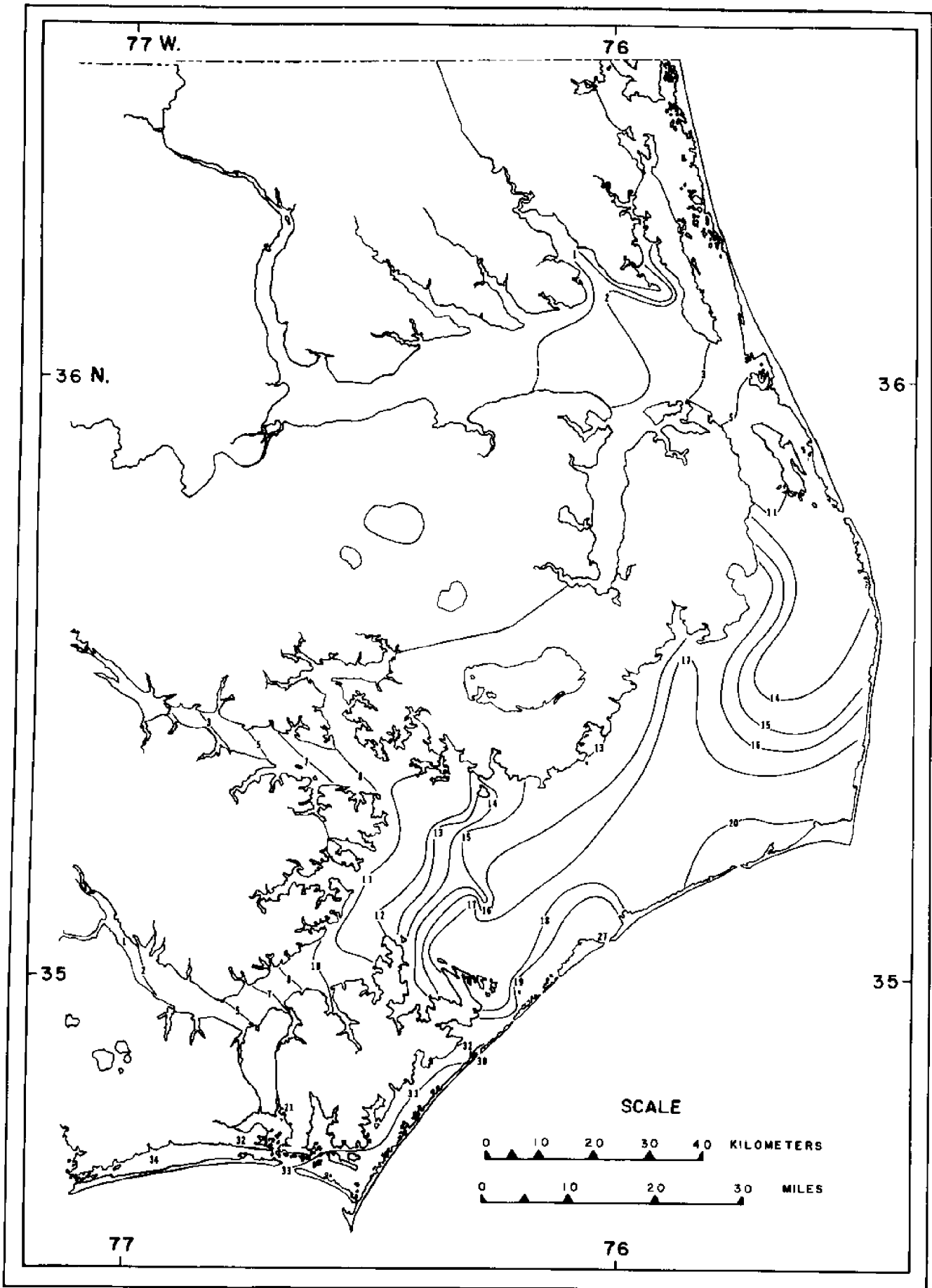


Figure 20.-- Surface isohalines in p.p.t., May.

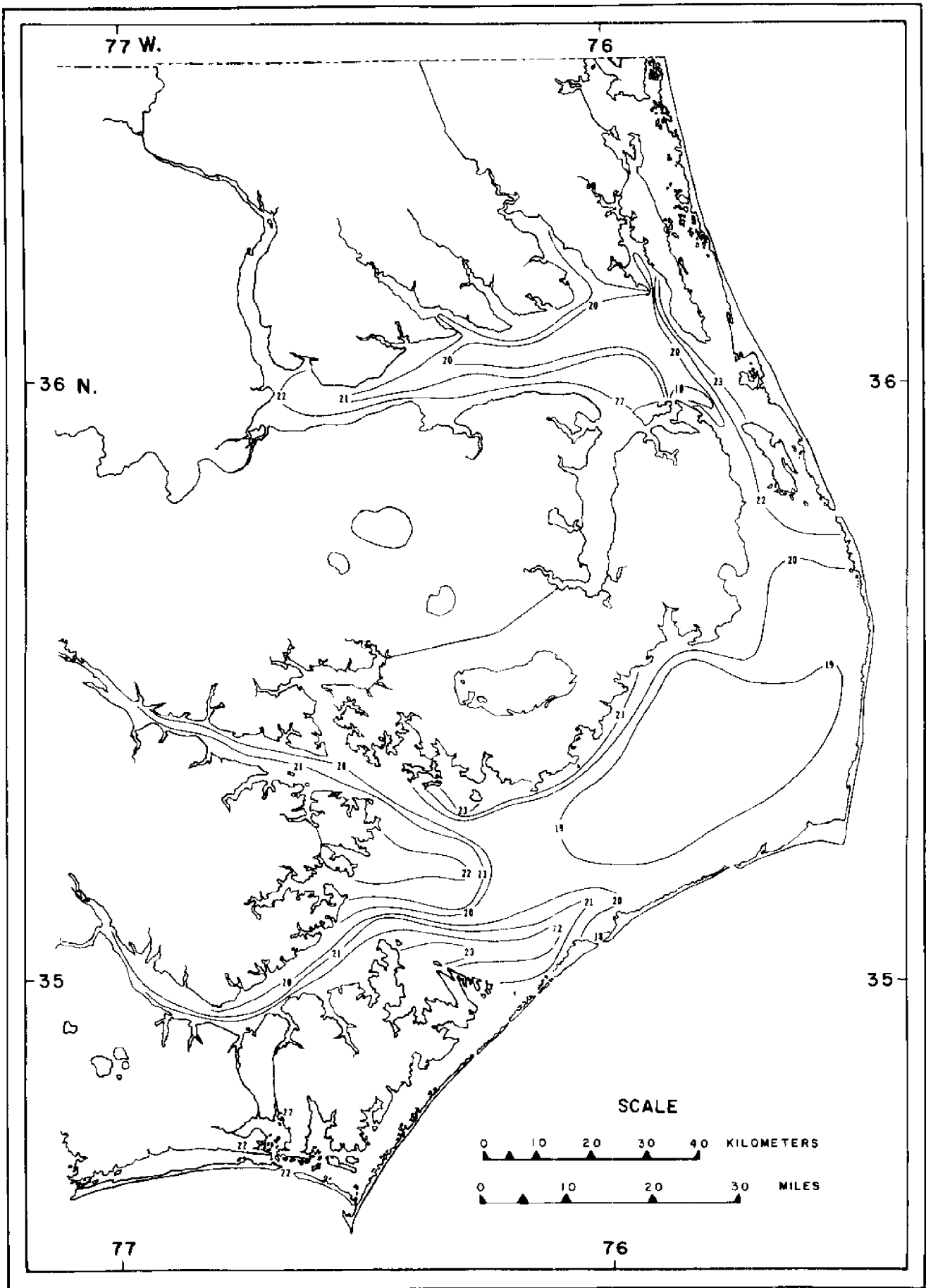


Figure 21.--Bottom isotherms in °C., May.

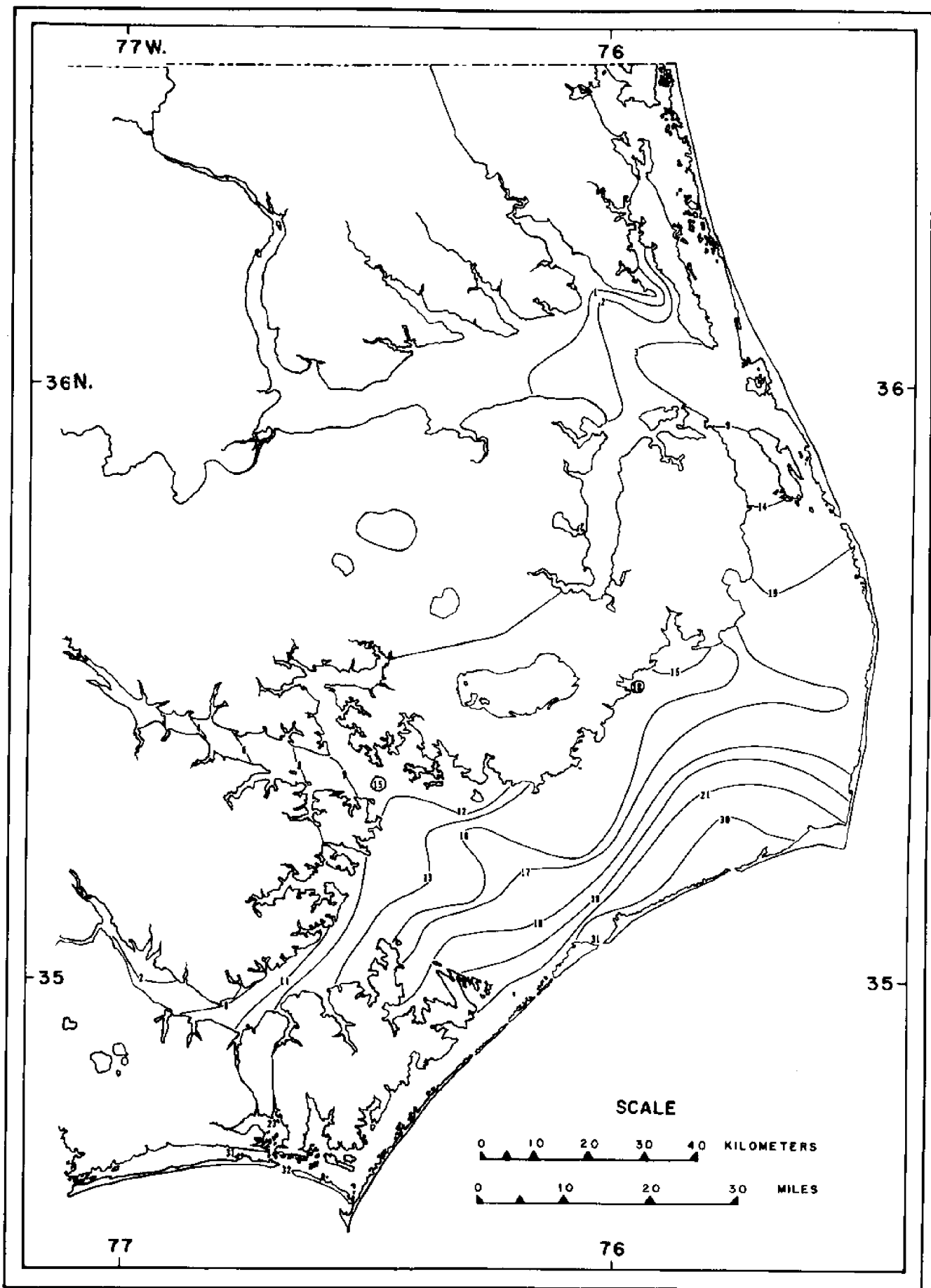


Figure 22.--Bottom isohalines in p.p.t., May.

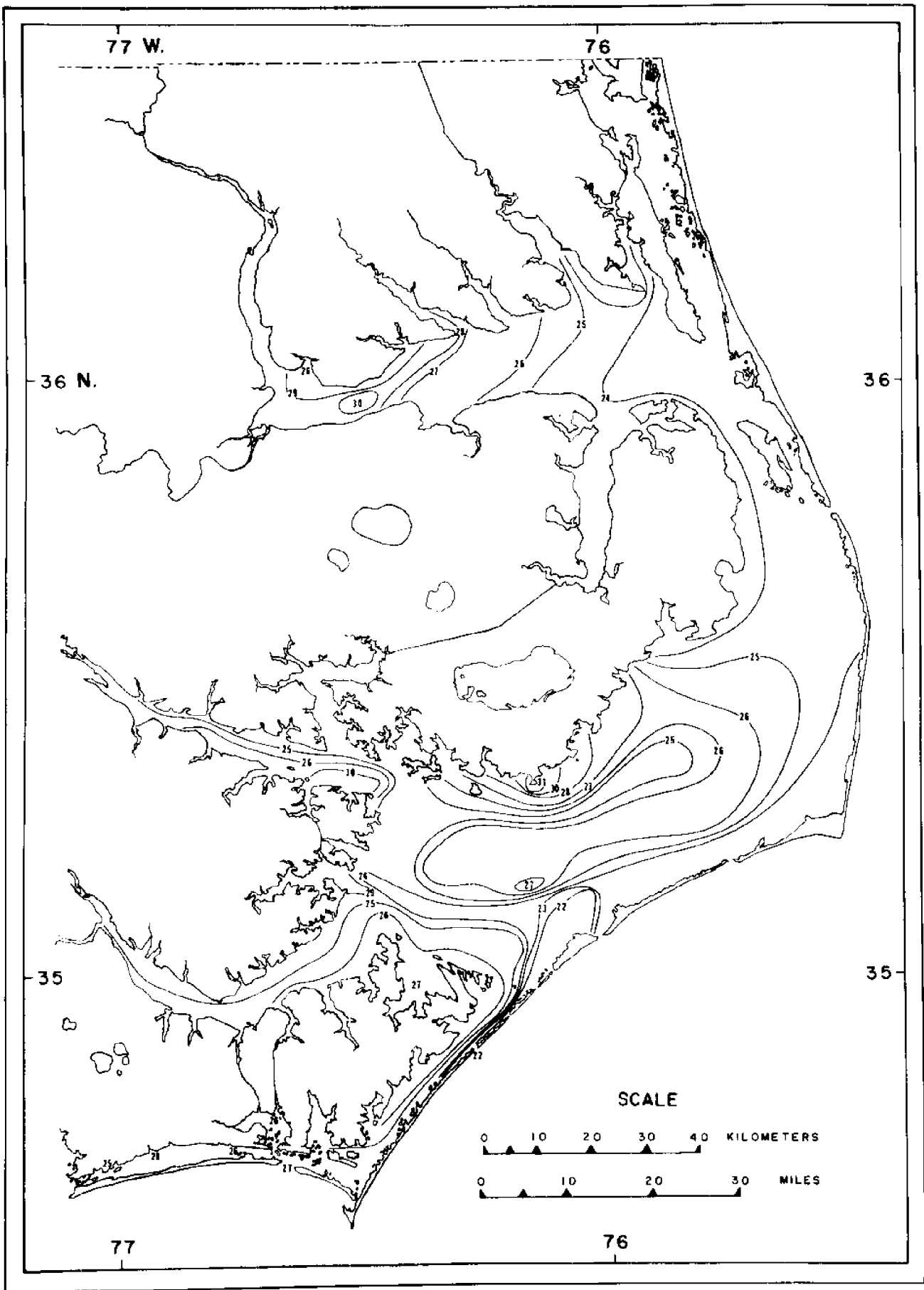


Figure 23.--Surface isotherms in °C., June.

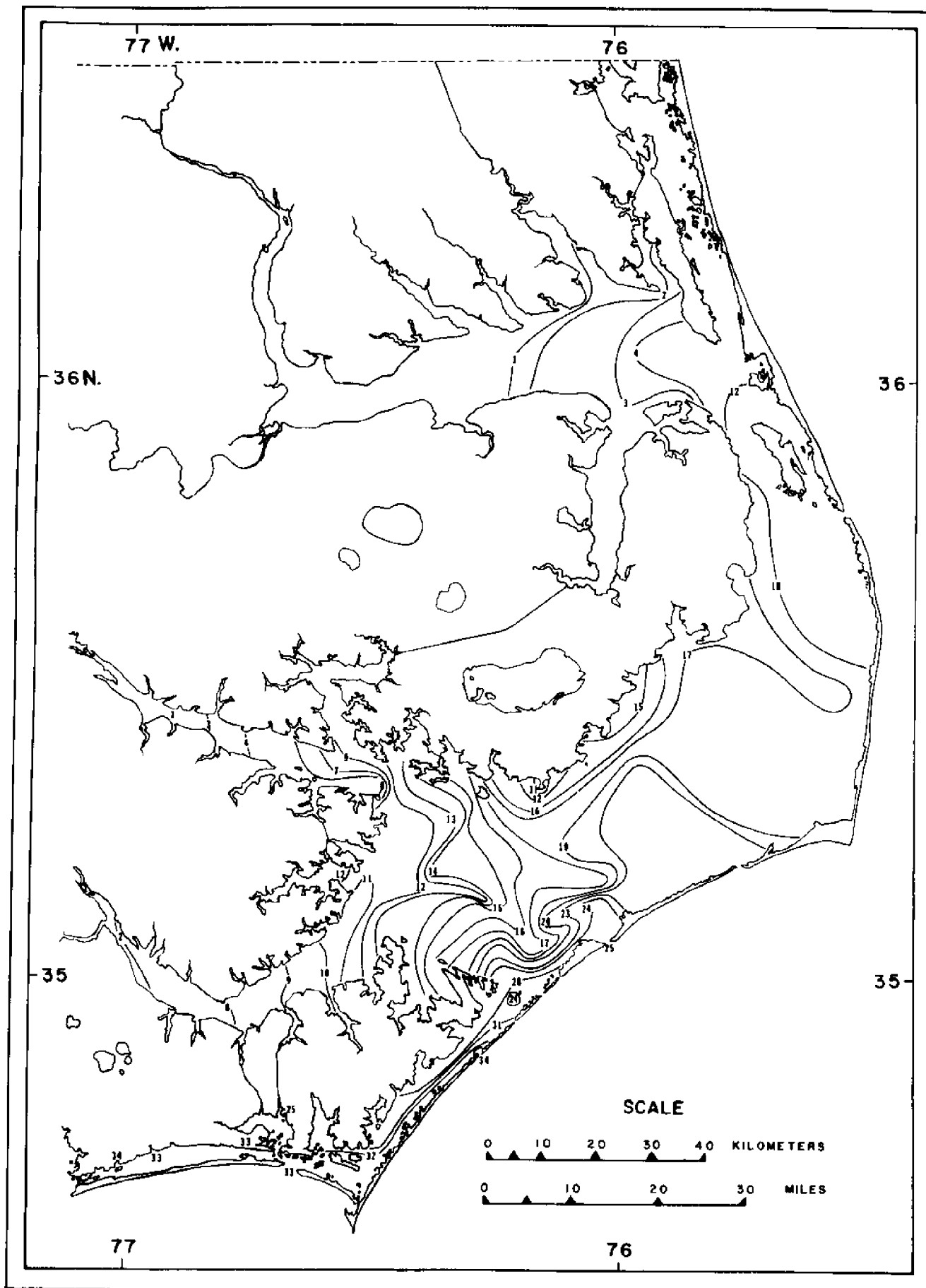


Figure 24.--Surface isohalines in p.p.t., June.

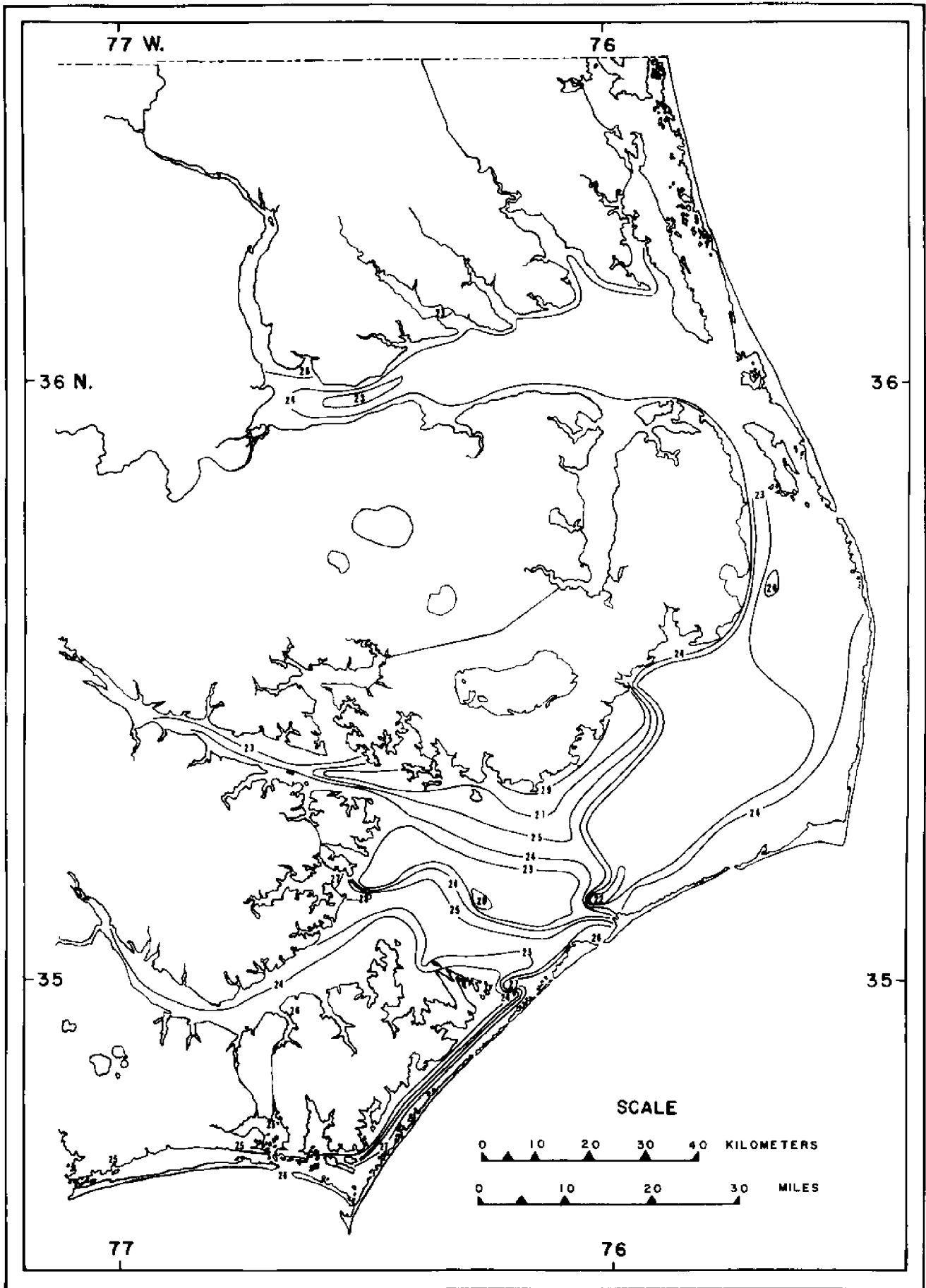


Figure 25.--Bottom isotherms in °C., June.

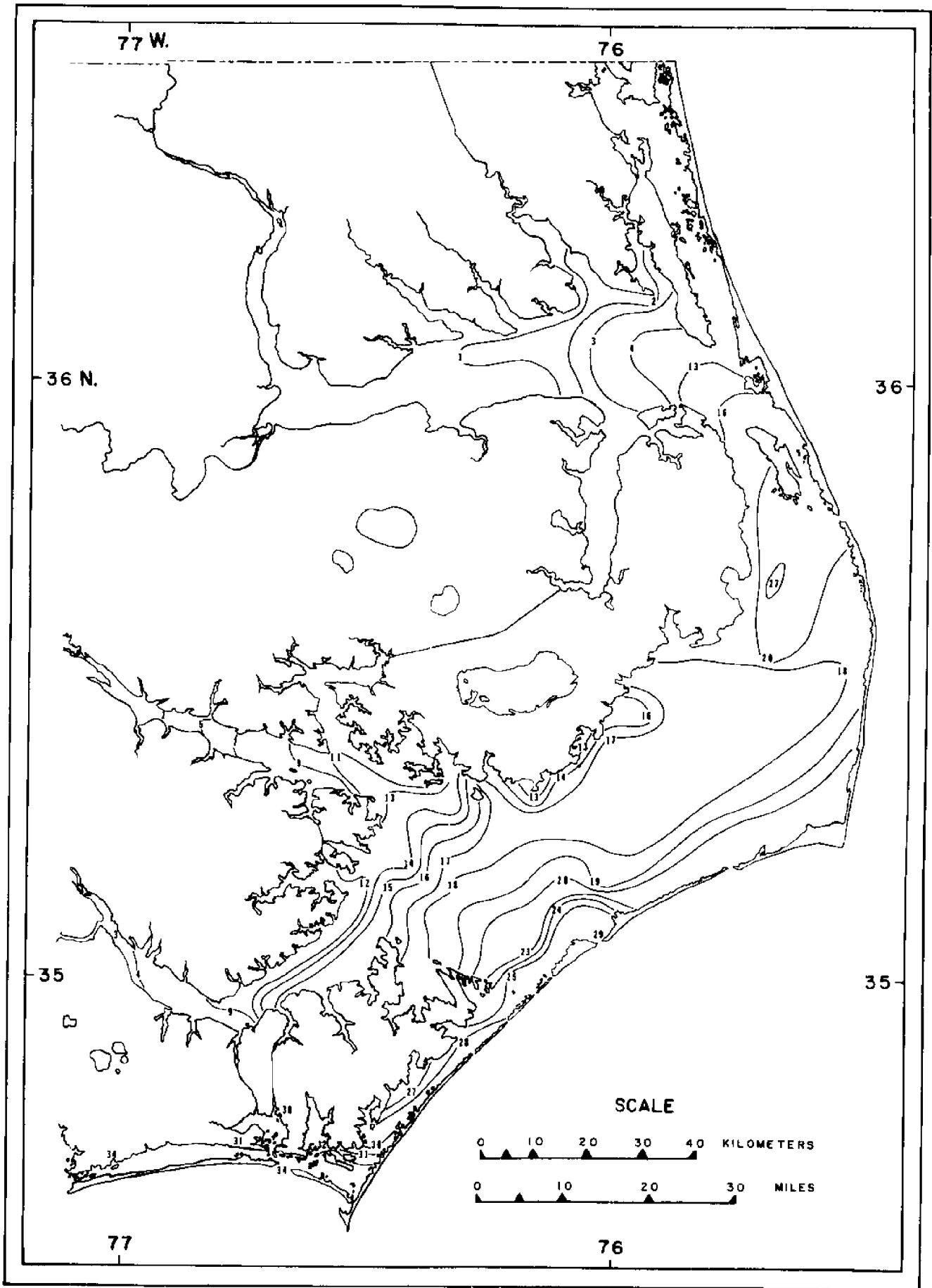


Figure 26.--Bottom isohalines in p.p.t., June.

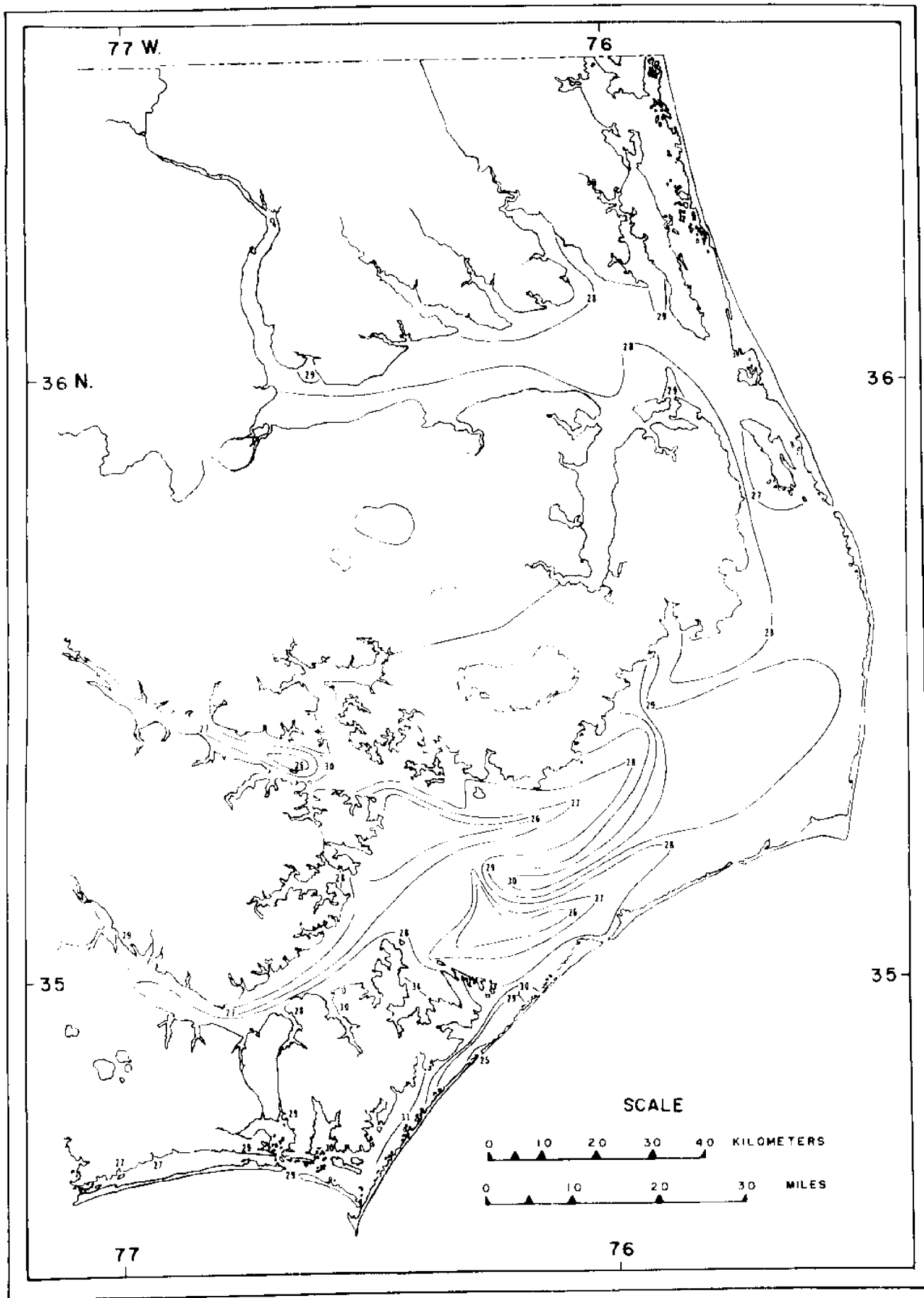


Figure 27.--Surface isotherms in °C., July.

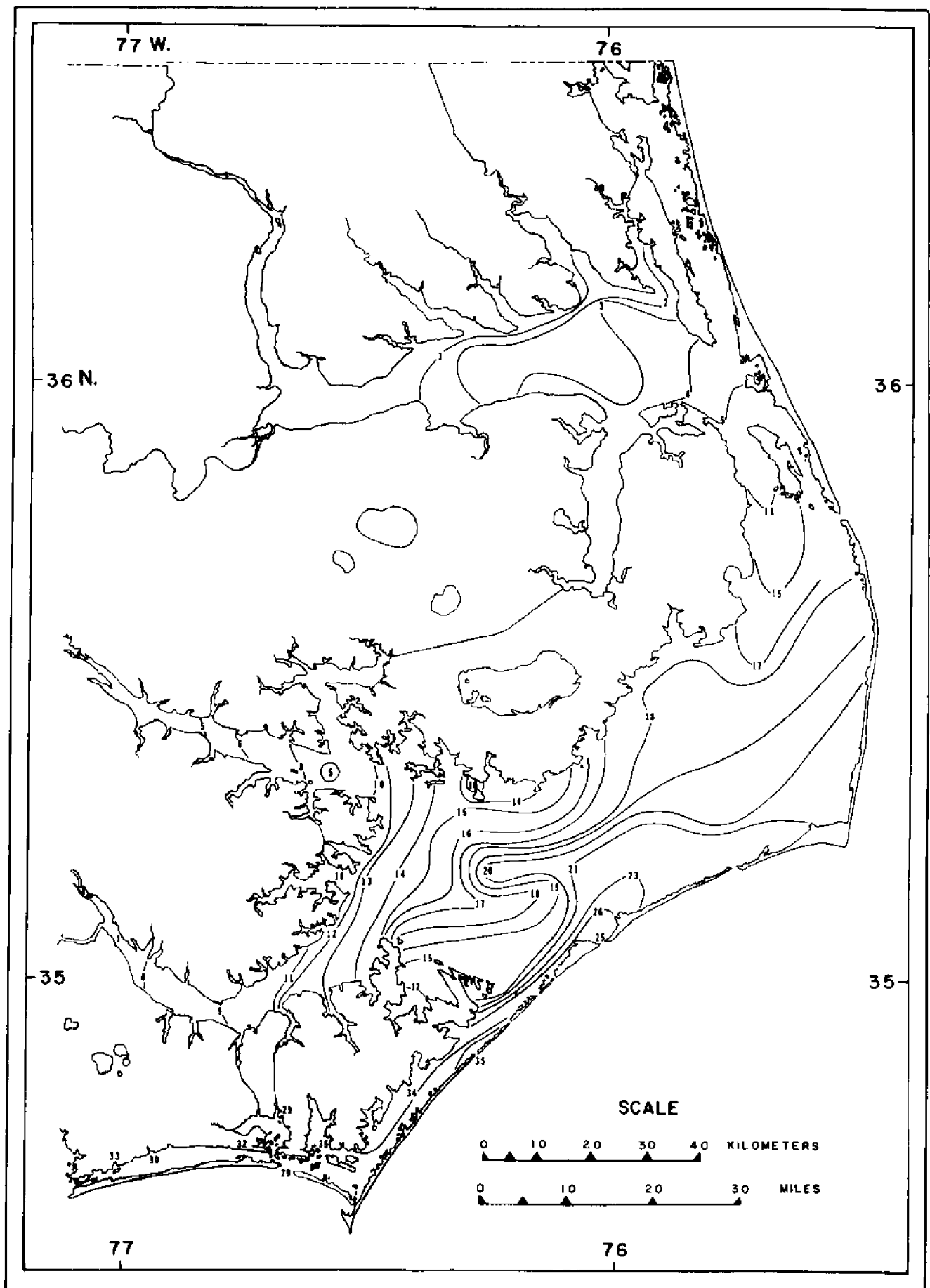


Figure 28.--Surface isohalines in p.p.t., July.

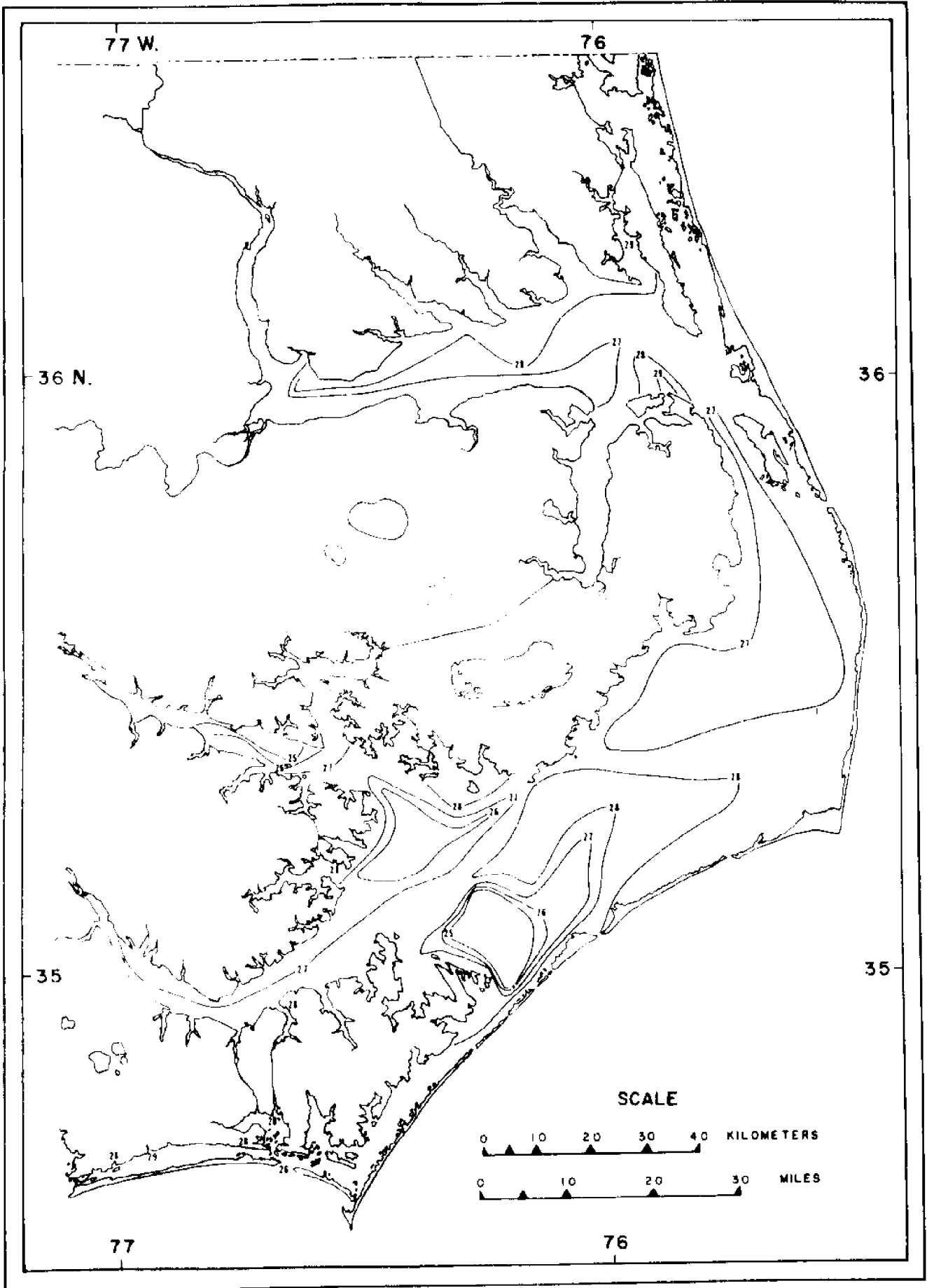


Figure 29.--Bottom isotherms in $^{\circ}\text{C}$., July.

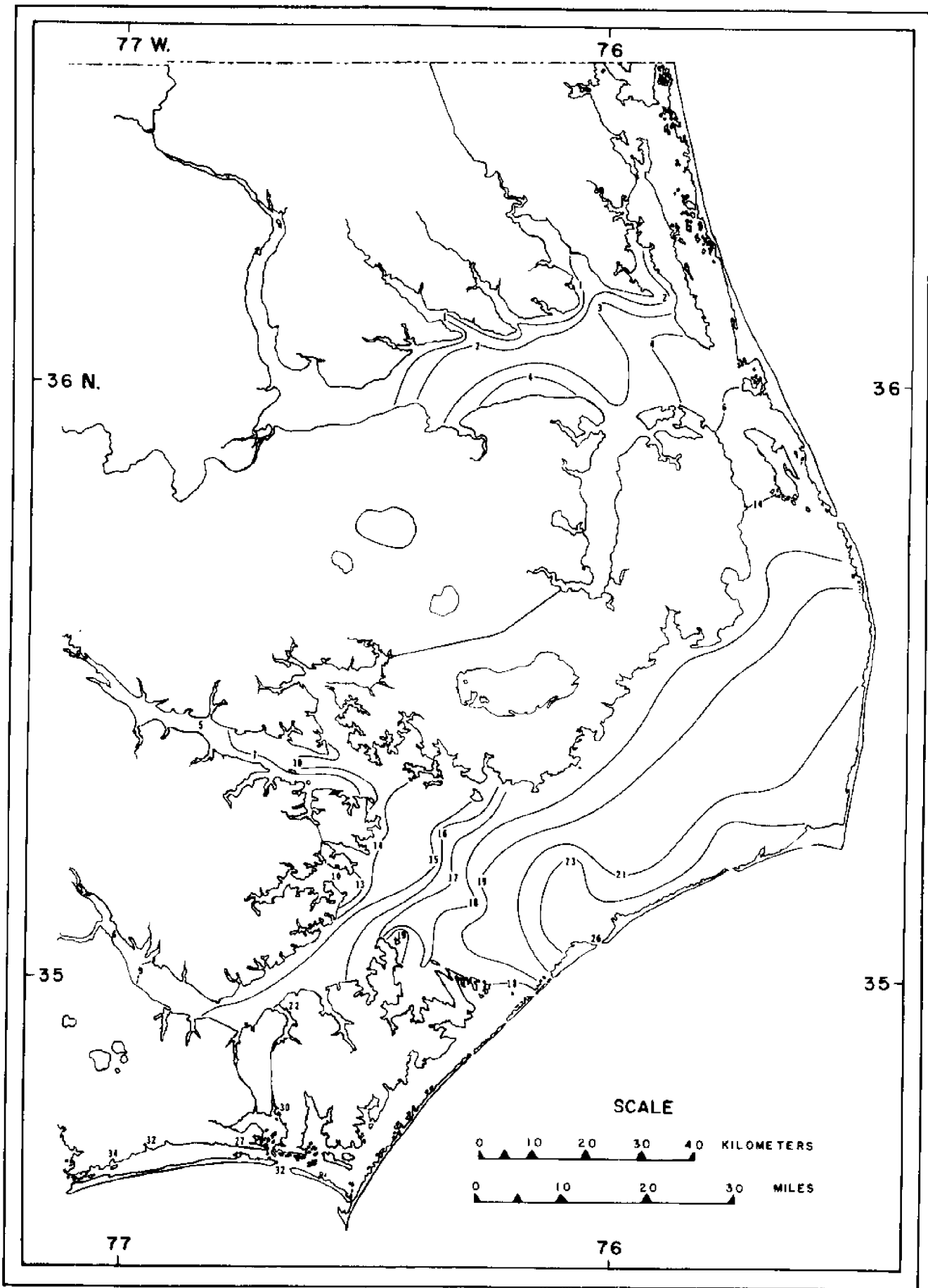


Figure 30.--Bottom isohalines in p.p.t., July.

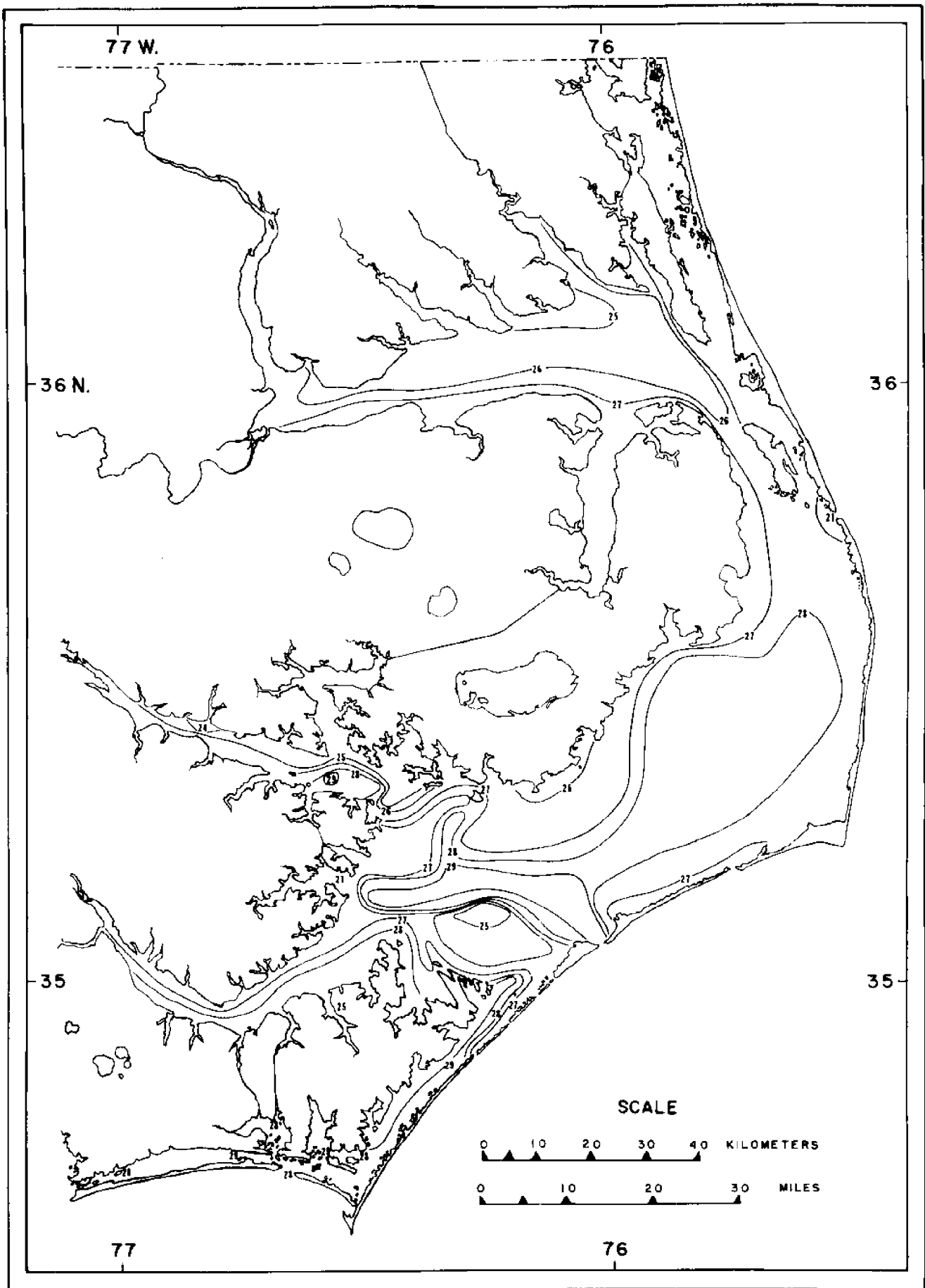


Figure 31.--Surface isotherms in °C., August.

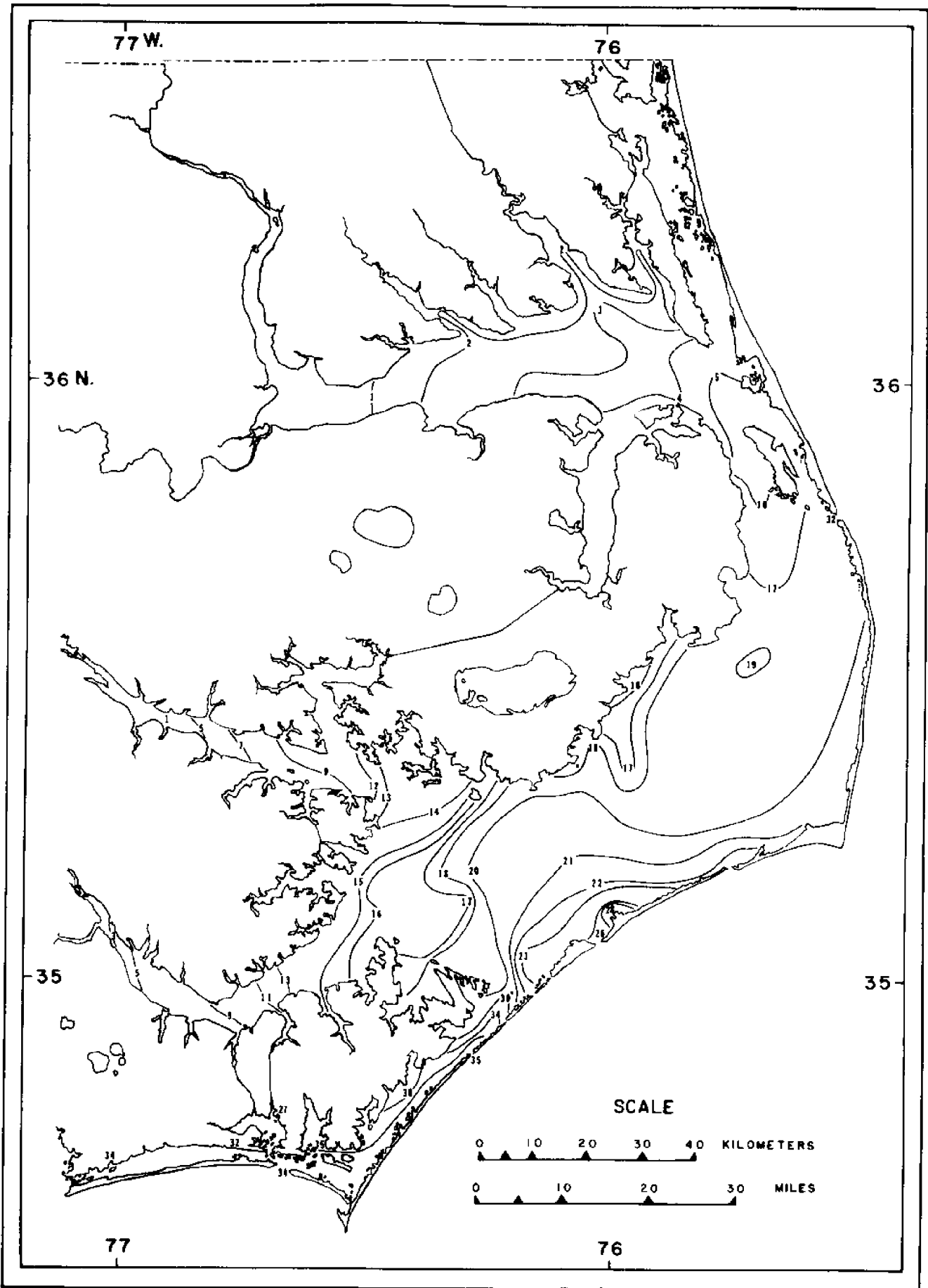


Figure 32.--Surface isohalines in p.p.t., August.

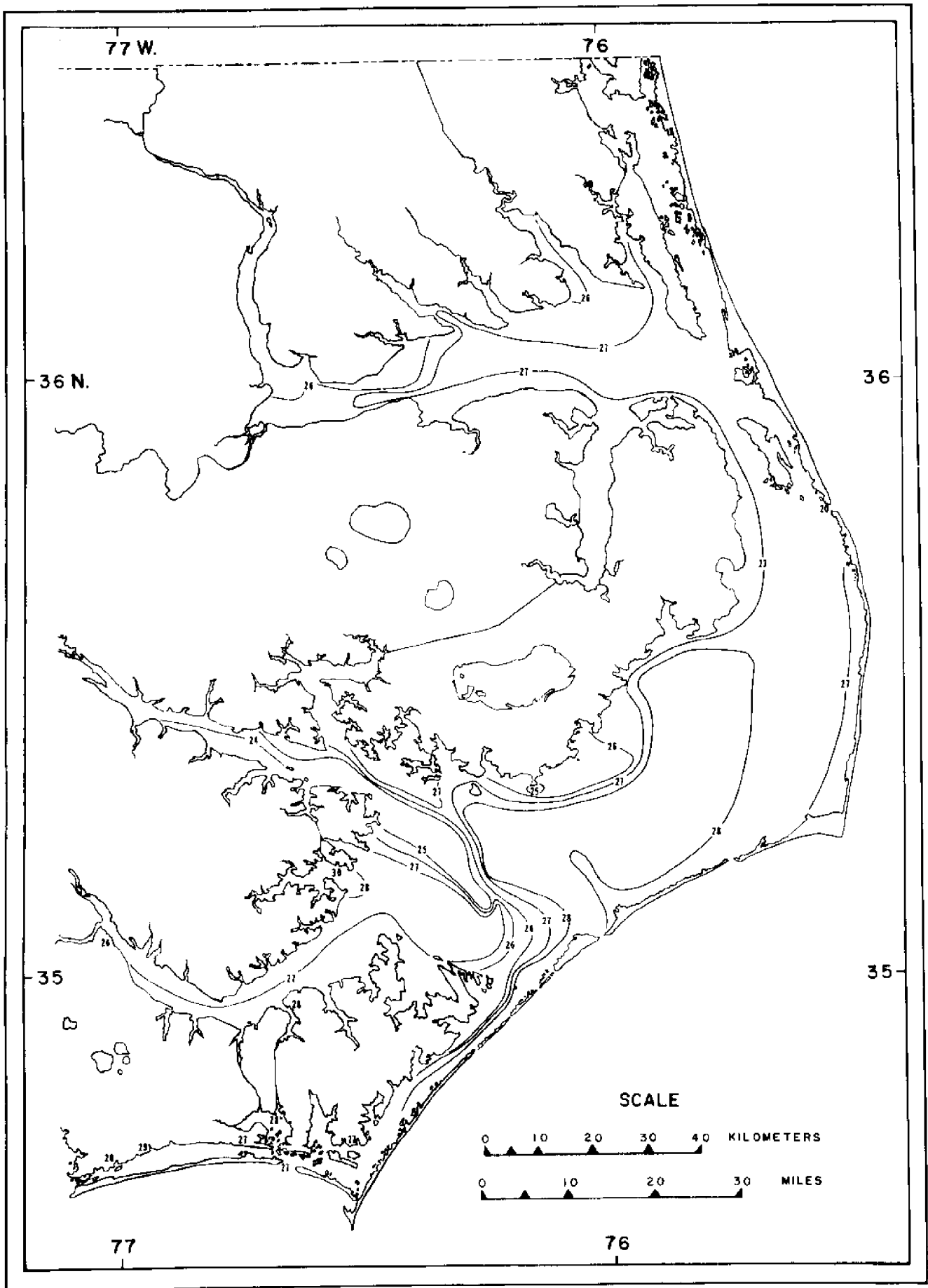


Figure 33.--Bottom isotherms in °C., August.

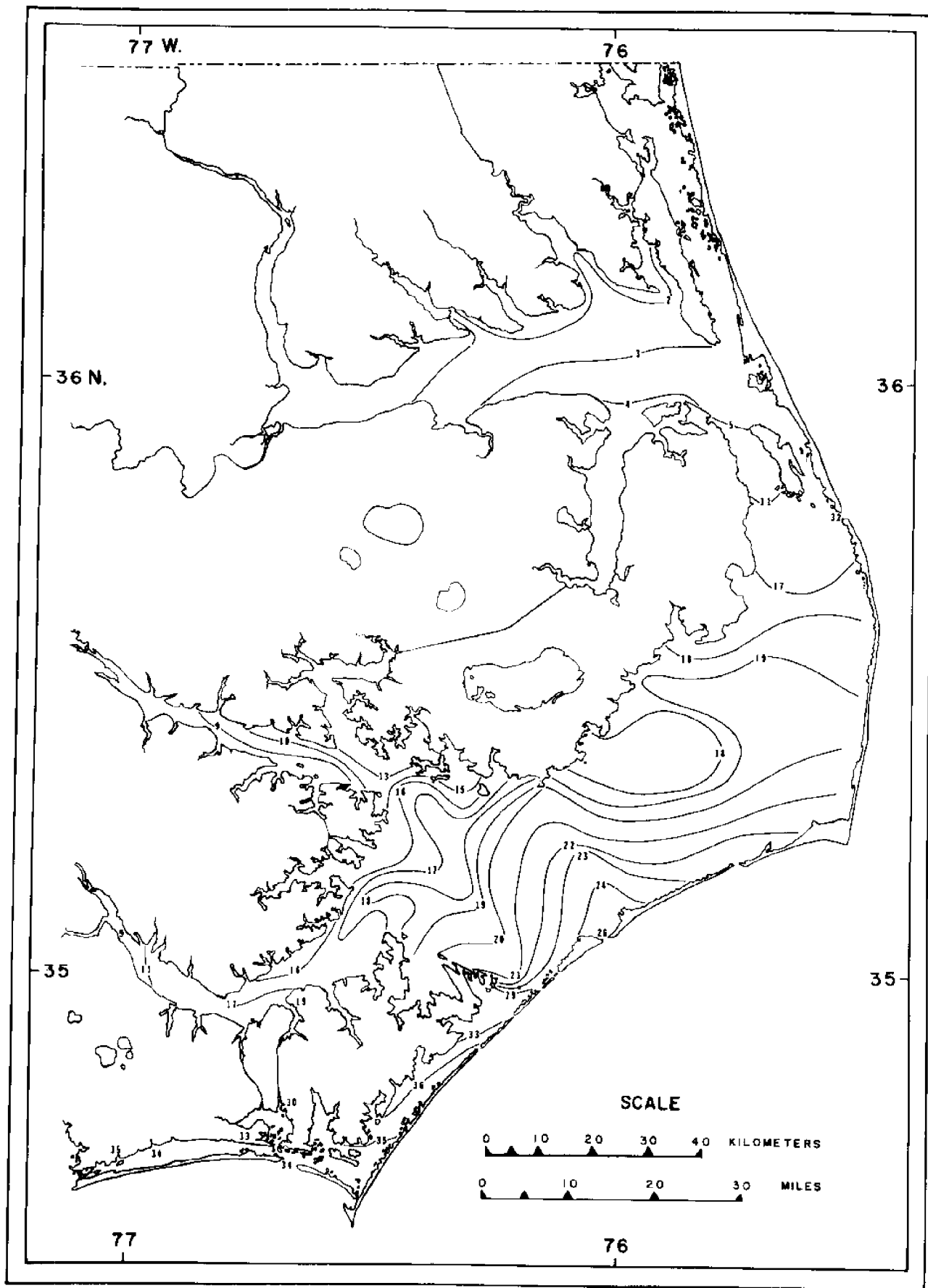


Figure 34.--Bottom isohalines in p.p.t., August.

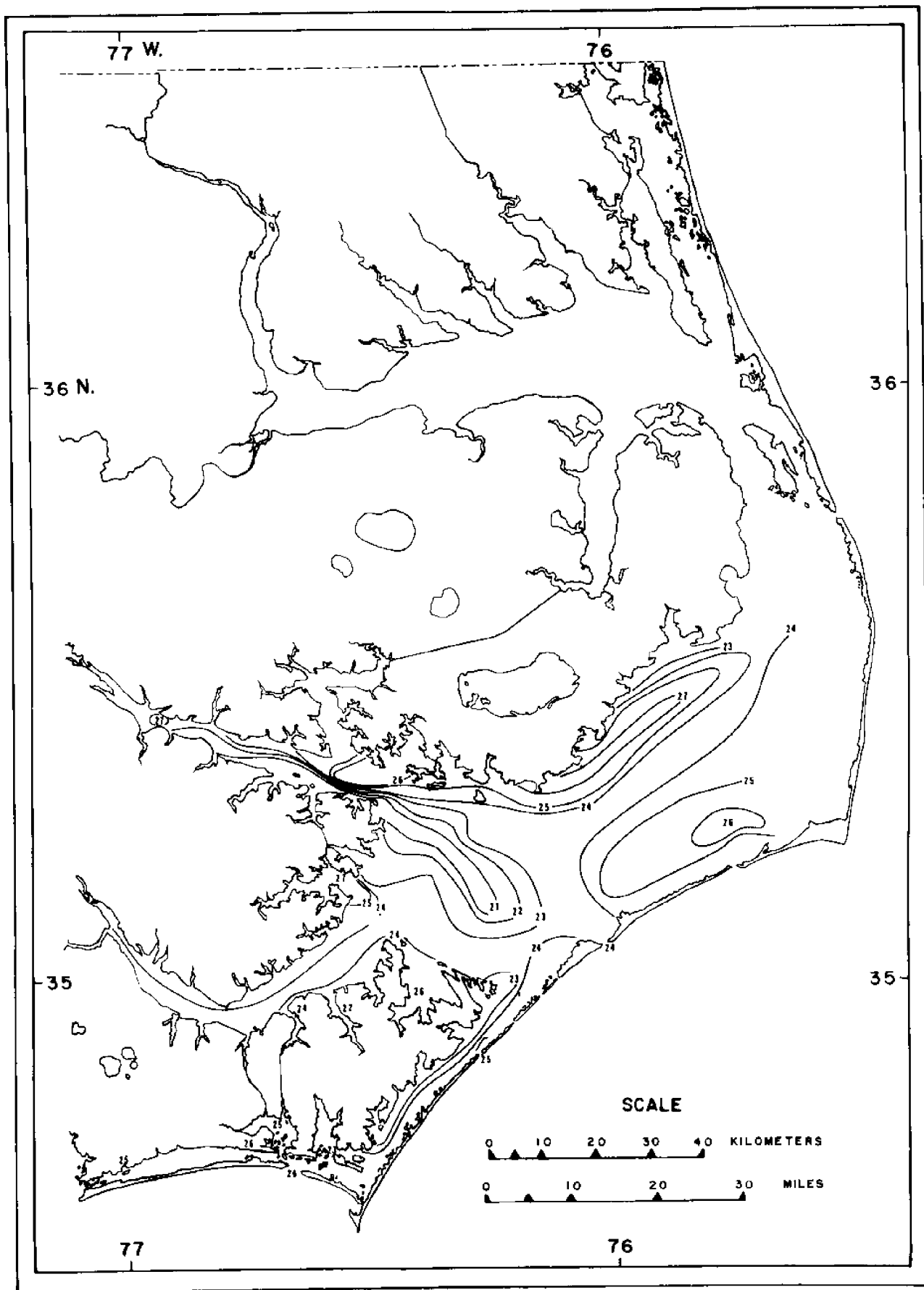


Figure 35.--Surface isotherms in °C., September.

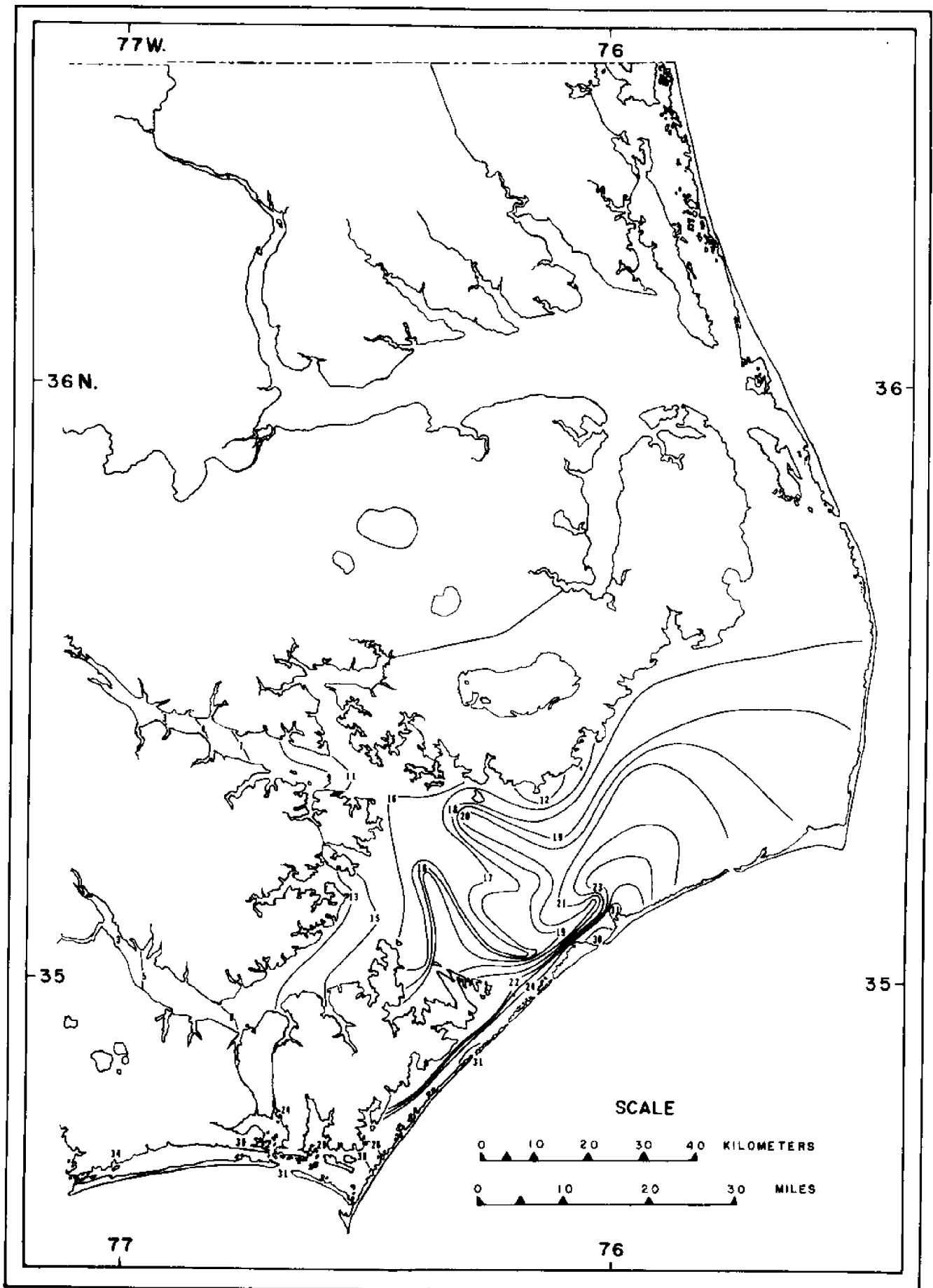


Figure 36.--Surface isohalines in p.p.t., September.

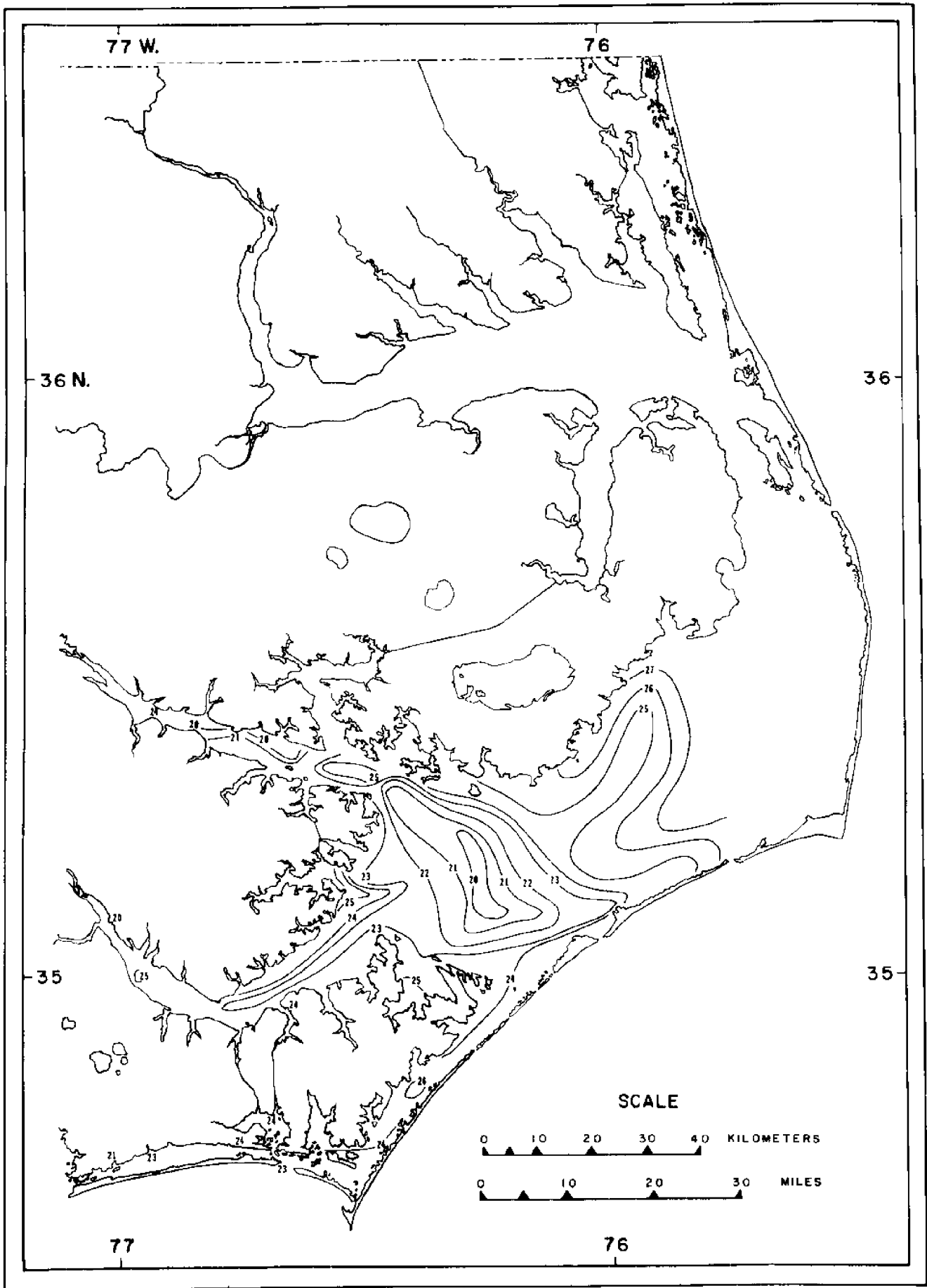


Figure 37.--Bottom isotherms in °C., September.

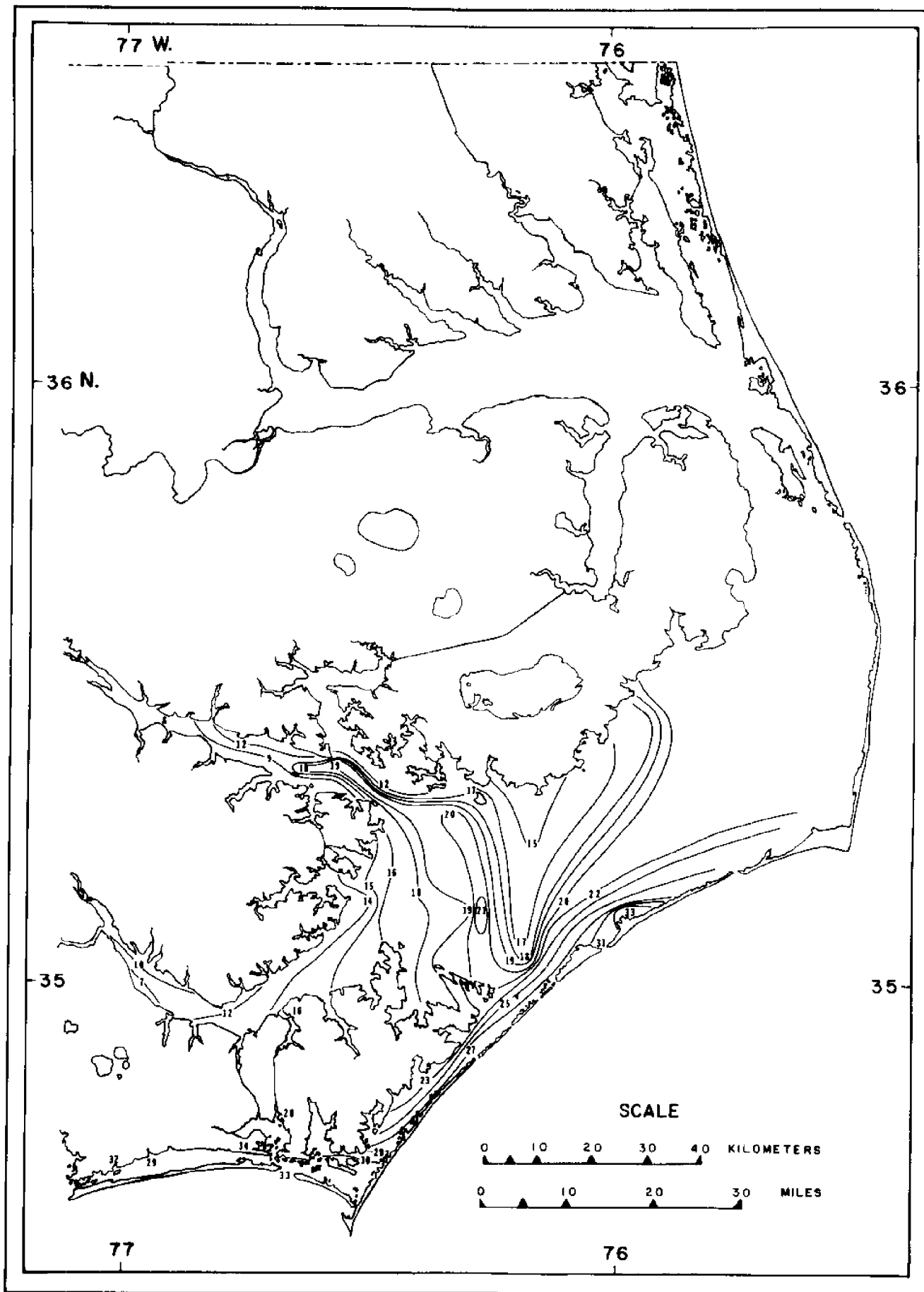


Figure 38.--Bottom isohalines in p.p.t., September.

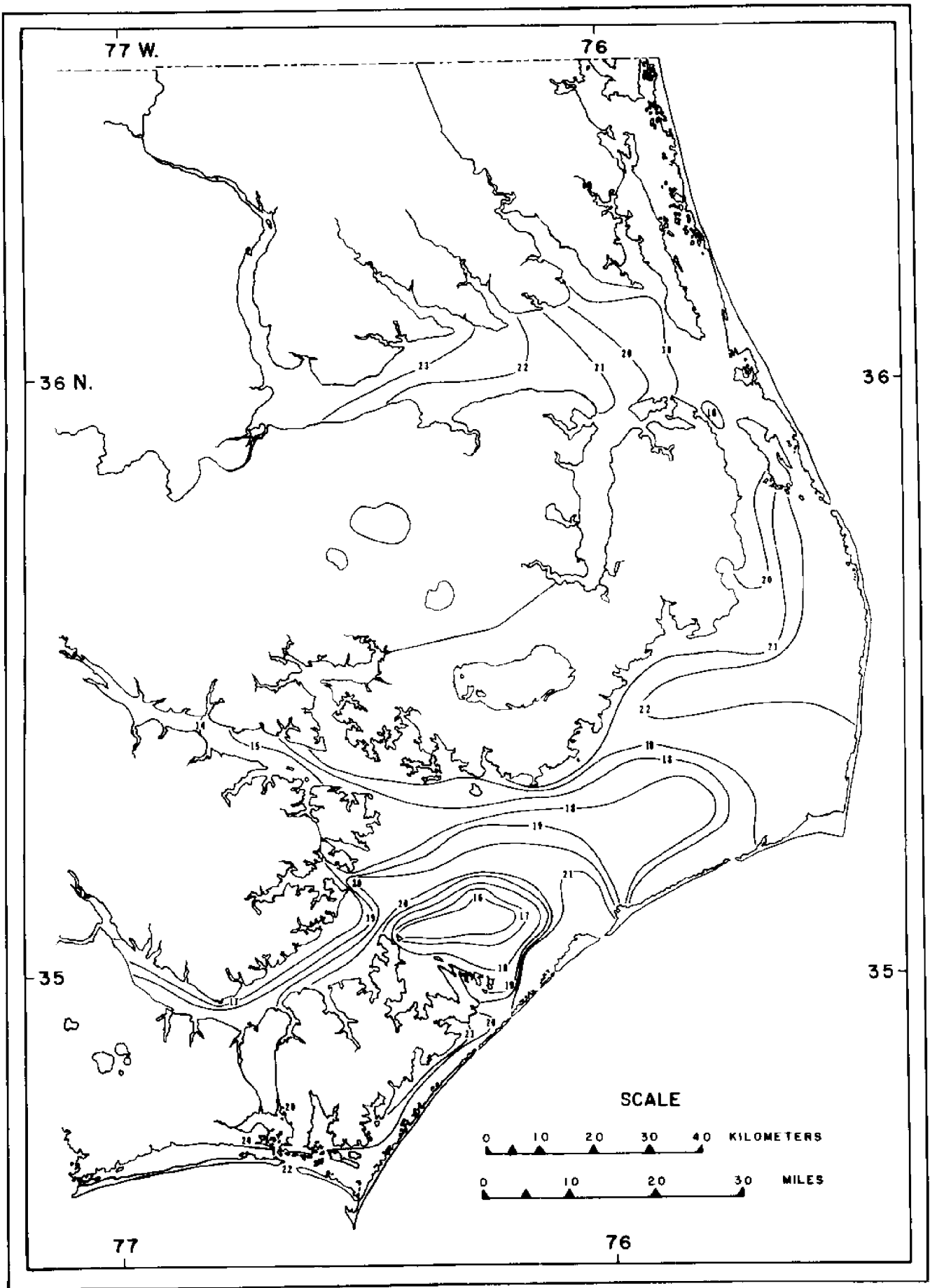


Figure 39.--Surface isotherms in °C., October.

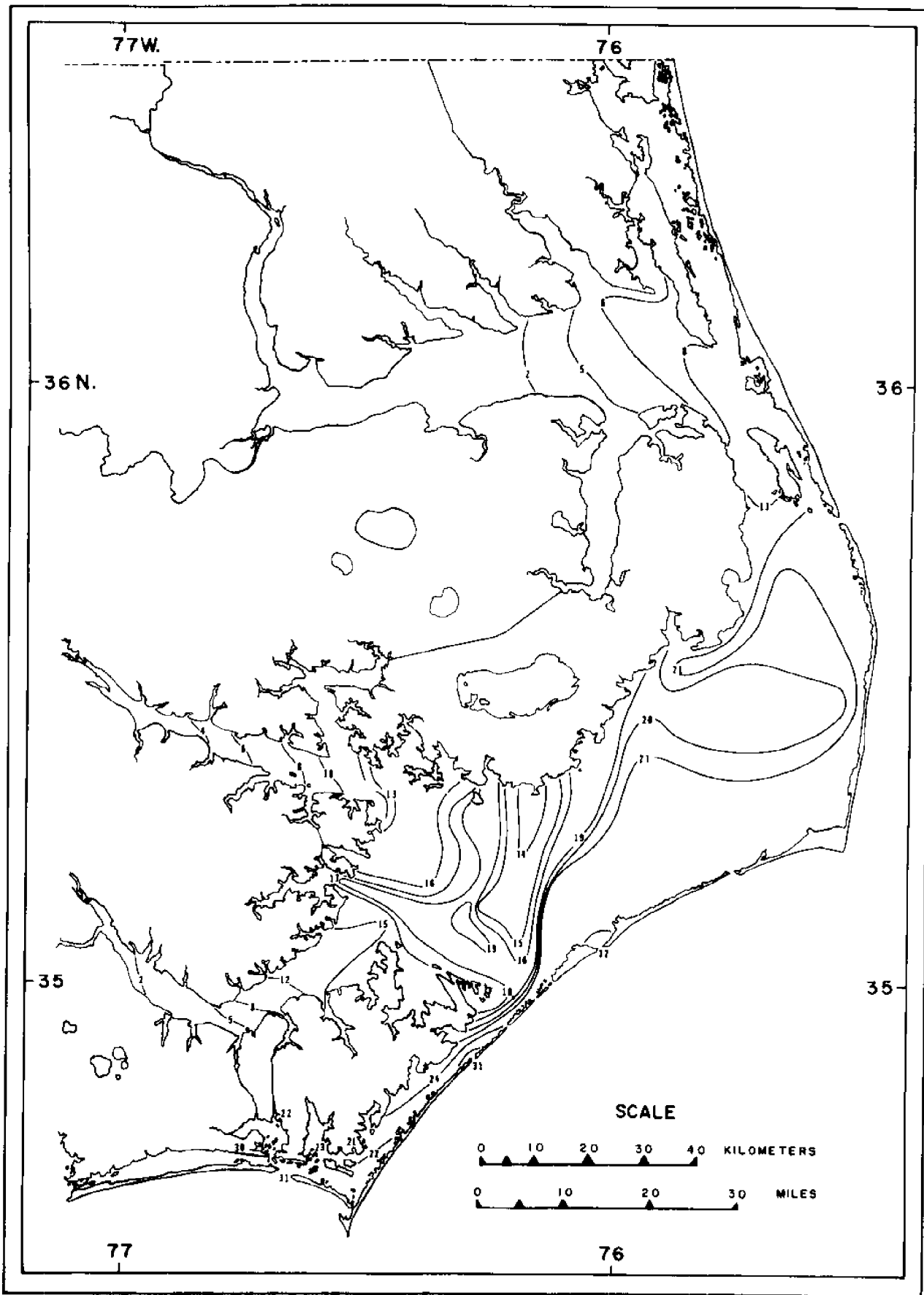


Figure 40.--Surface isohalines in p.p.t., October.

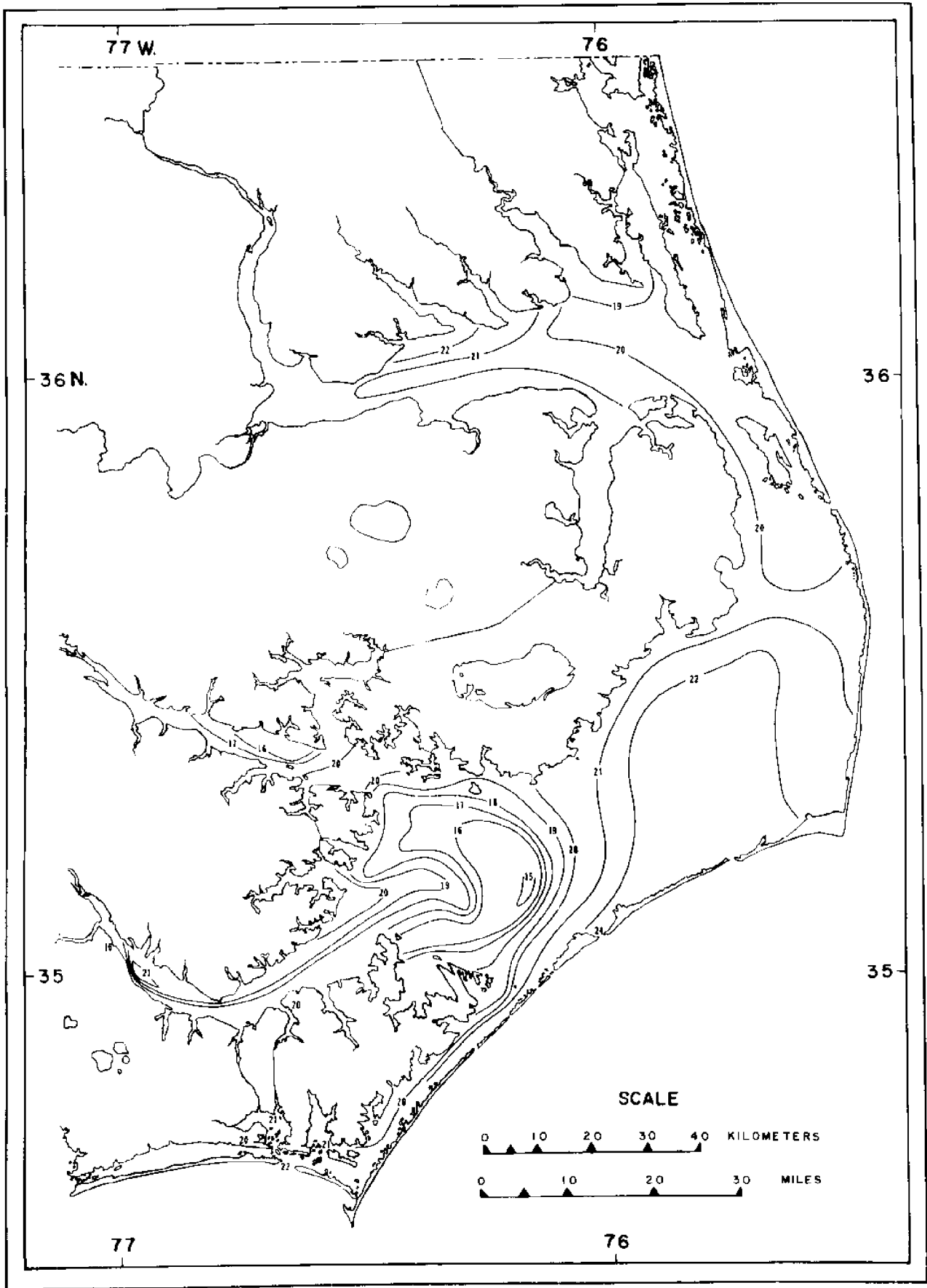


Figure 41.--Bottom isotherms in °C., October.

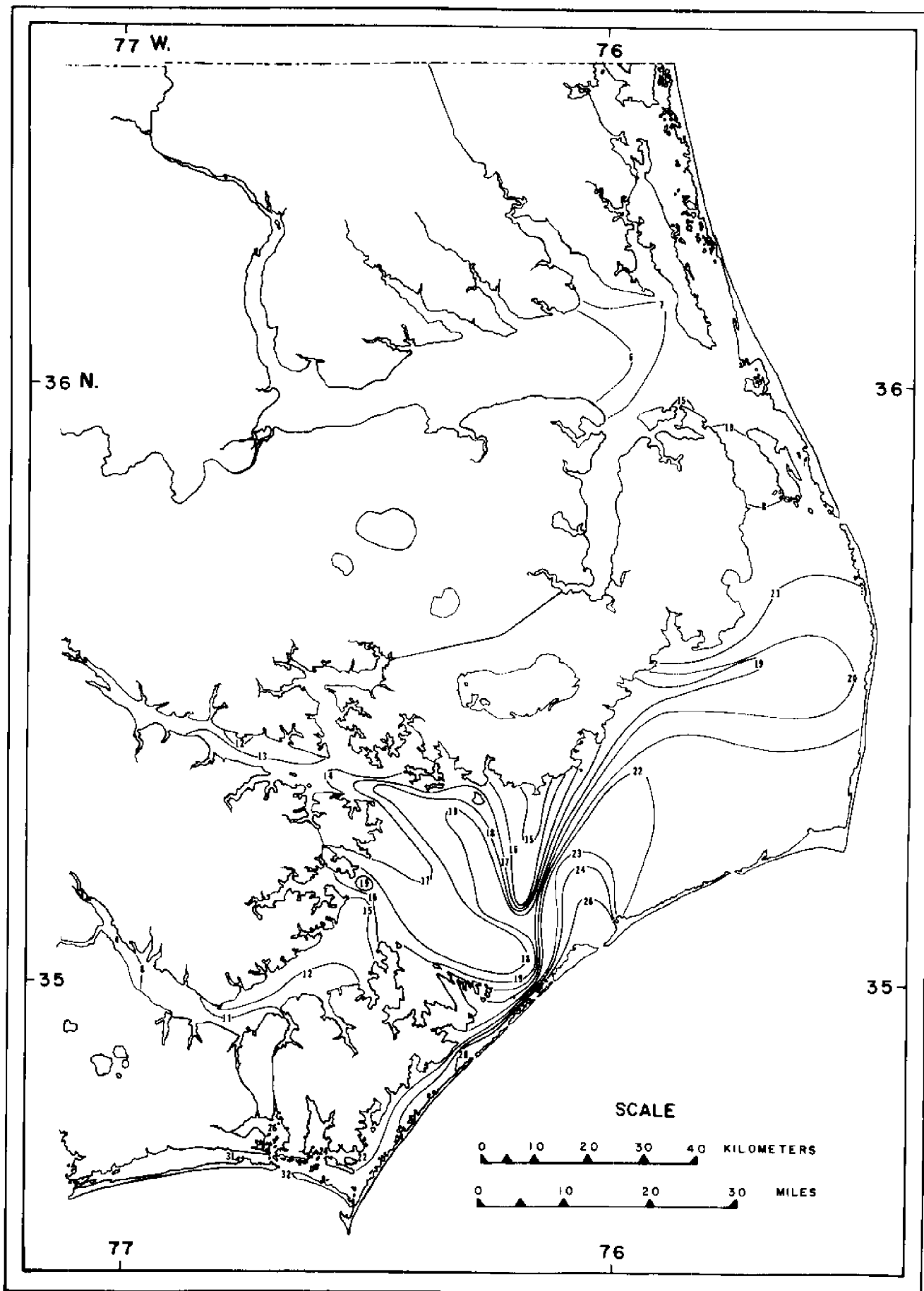


Figure 42.--Bottom isohalines in p.p.t., October.

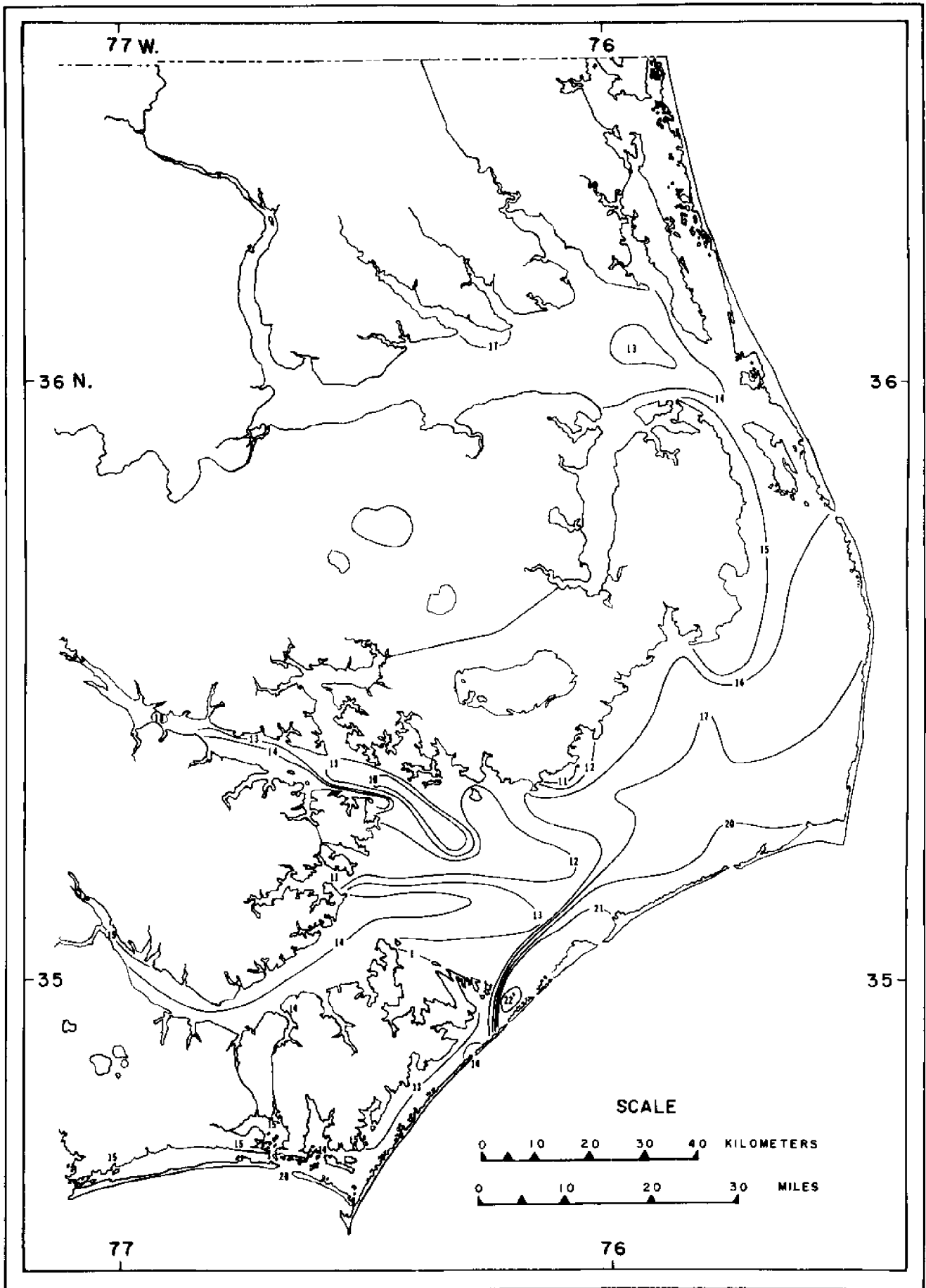


Figure 43.--Surface isotherms in °C., November.

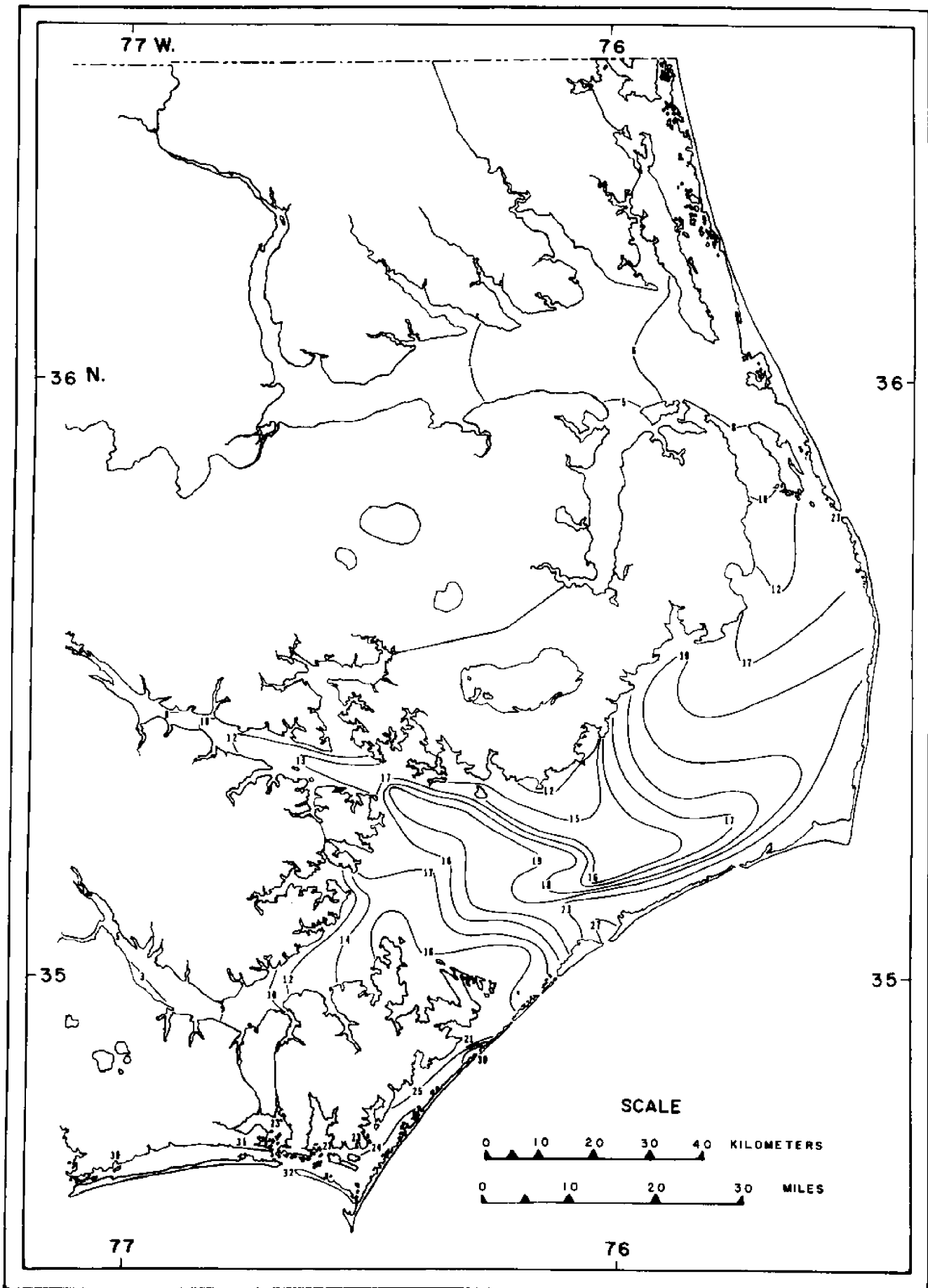


Figure 44.--Surface isohalines in p.p.t., November.

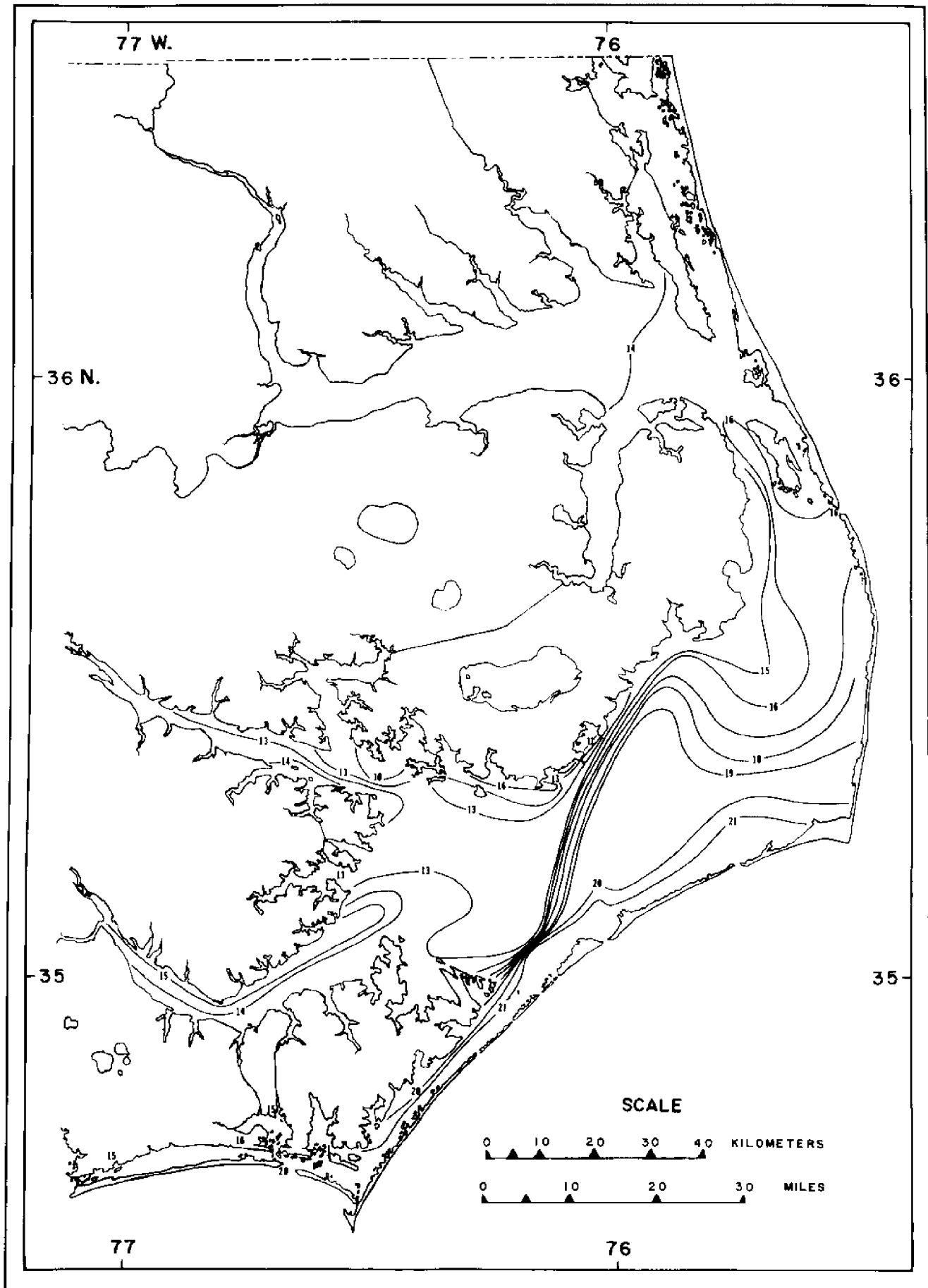


Figure 45.--Bottom isotherms in °C., November.

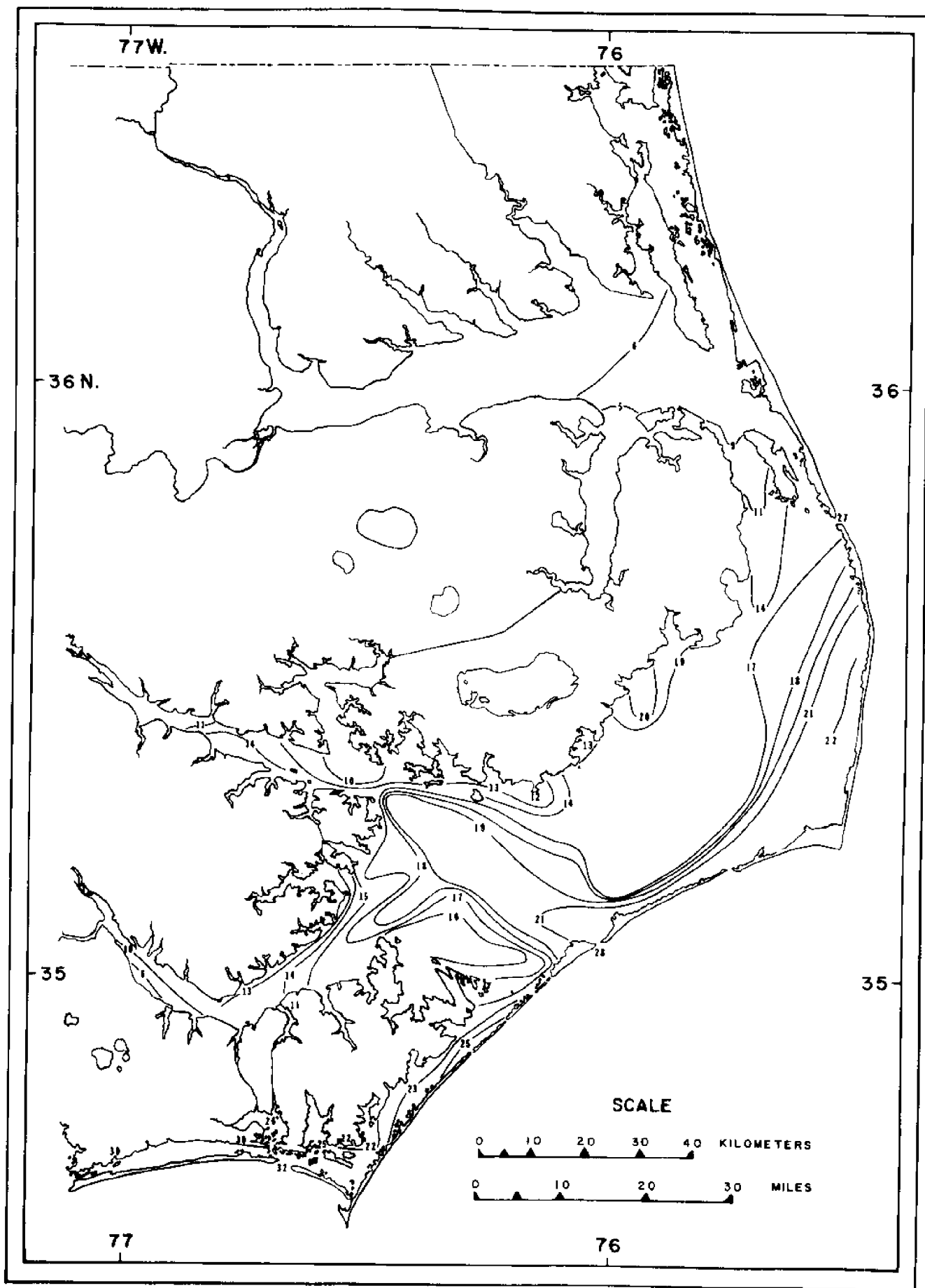


Figure 46.--Bottom isohalines in p.p.t., November.

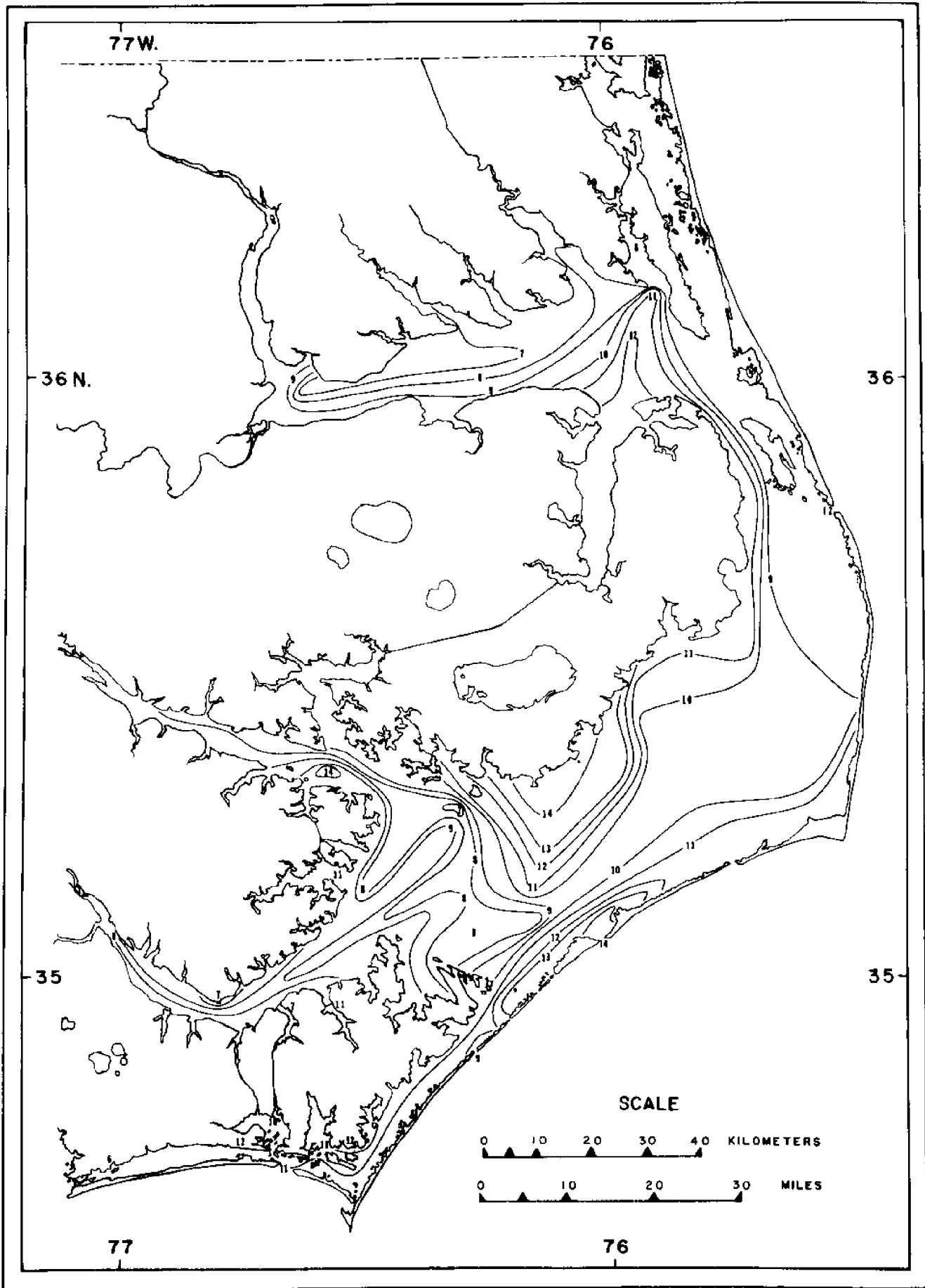


Figure 47.--Surface isotherms in °C., December.

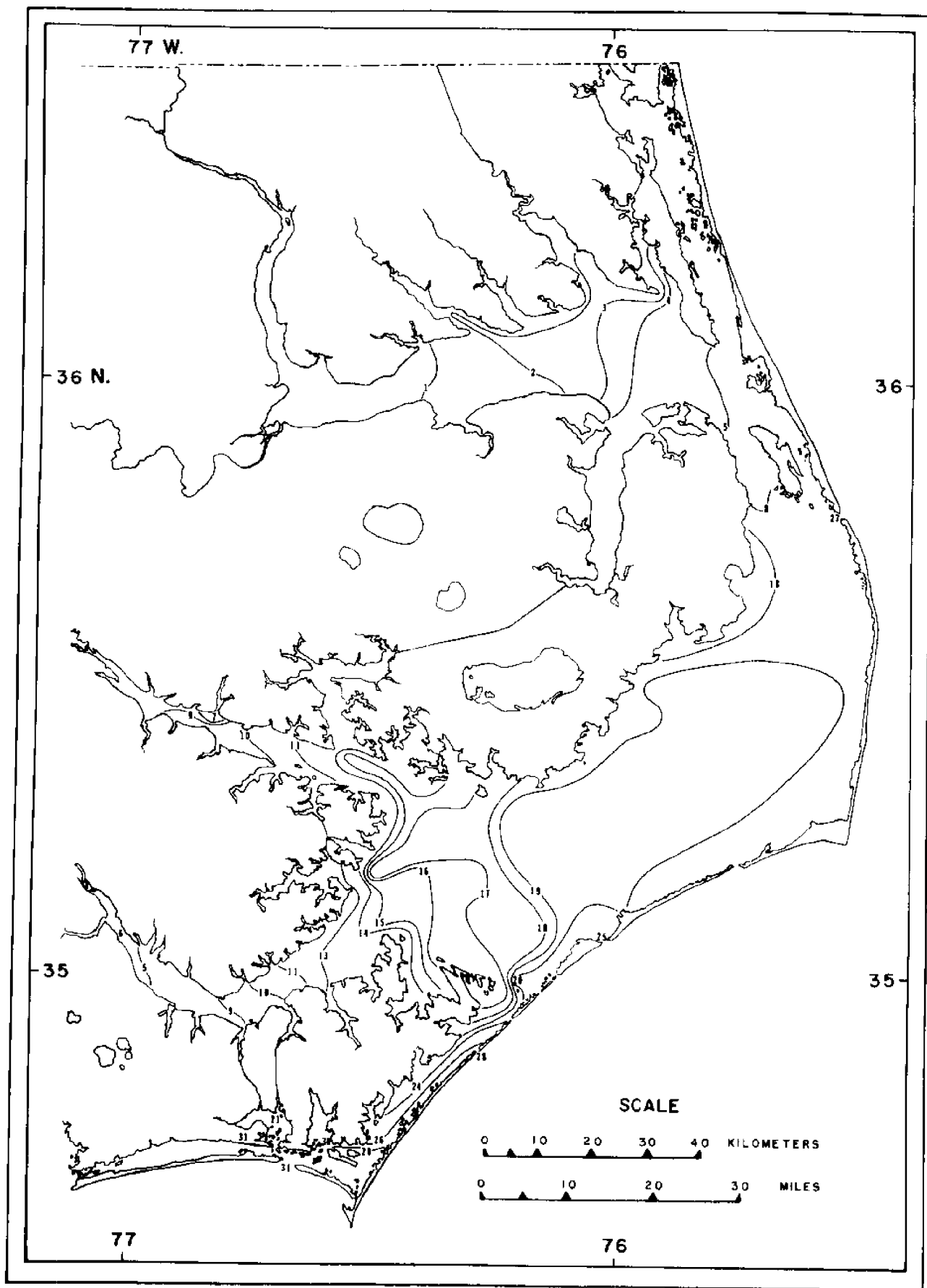


Figure 48.--Surface isohalines in p.p.t., December.

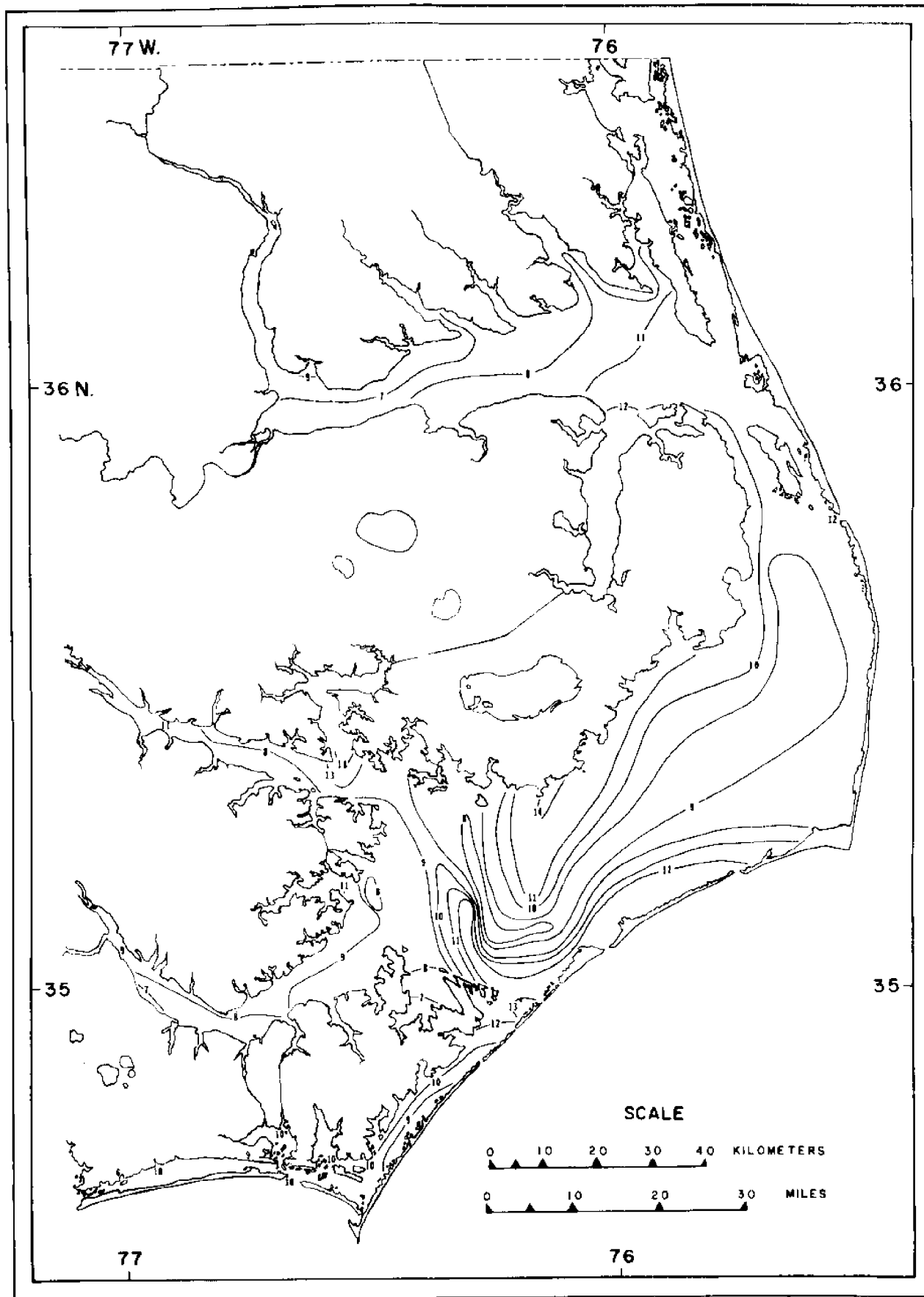


Figure 49.--Bottom isotherms in °C., December.

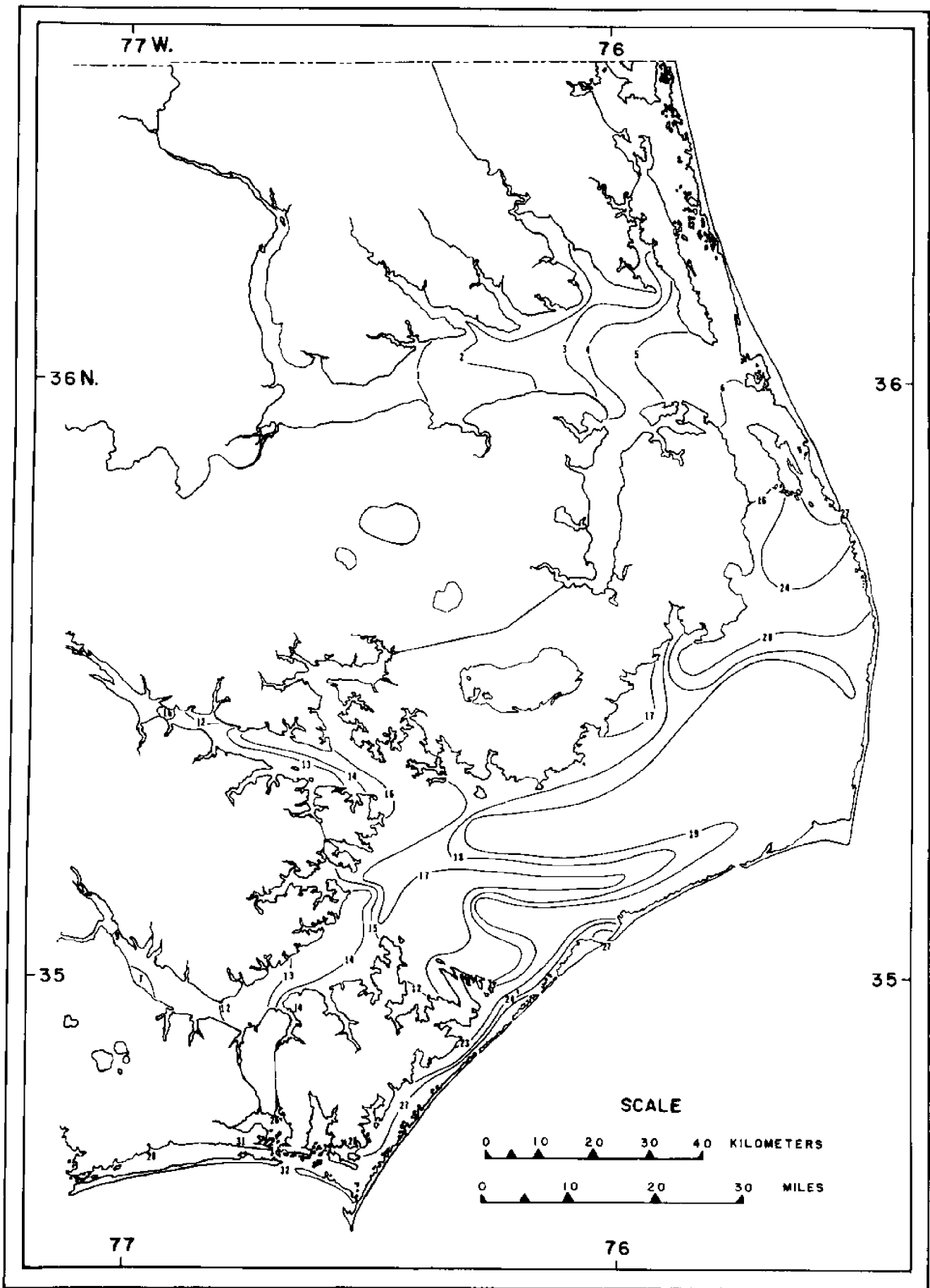


Figure 50.--Bottom isohalines in p.p.t., December.

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