UNIVERSITY OF NORTH CAROLINA

SEA GRANT PROGRAM

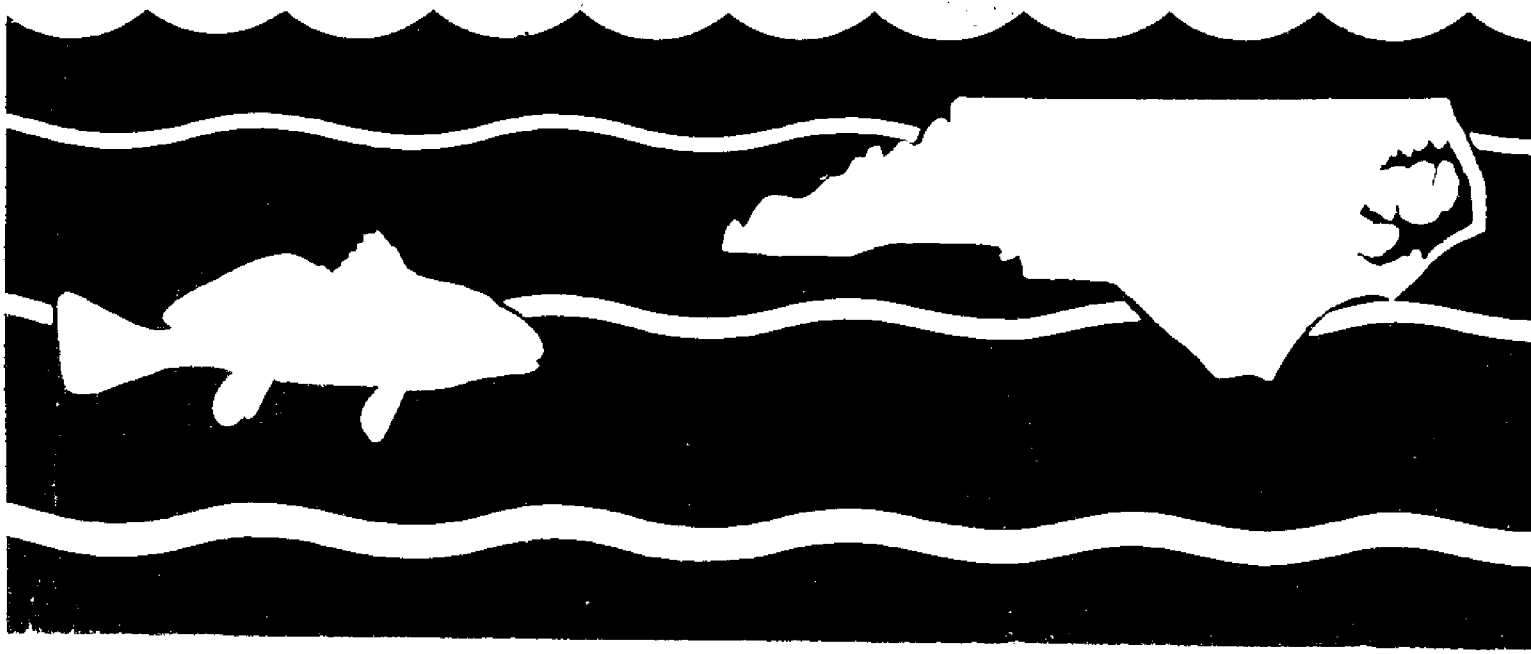
HYDROGRAPHIC ATLAS OF NORTH CAROLINA
ESTUARINE AND SOUND WATERS, 1972

F. J. Schwartz and A. F. Chestnut

SEA GRANT PUBLICATION

UNC-SG-73-12

JUNE, 1973



HYDROGRAPHIC ATLAS OF NORTH CAROLINA

ESTUARINE AND SOUND WATERS, 1972

by

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Institute of Marine Sciences
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This work was partially sponsored by Office of Sea Grant, NOAA, U.S. Dept. of Commerce, under Grant No. 04-3-158-40, and the State of North Carolina, Department of Administration. The U.S. Government is authorized to produce and distribute reprints for governmental purposes notwithstanding any copyright that may appear hereon.

SEA GRANT PUBLICATION UNC-SG-73-12

JUNE, 1973

Sea Grant Program, School of Public Health, University of North Carolina
Chapel Hill, North Carolina 27514

Hydrographic Atlas of North Carolina

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Abstract

An atlas of figures, tables, and short text presents water temperature and salinity data for all North Carolina estuarine and sound coastal waters from Virginia to South Carolina except Currituck Sound. Monthly surface and bottom isohalines and isotherms are illustrated in 42 figures. Tables list actual raw determinations for these parameters.

Introduction

North Carolina's coastal estuarine and sound waters, which harbor myriads of organisms, larvae, or transients, hydrographically still remain relatively unknown. Williams et al. (1966) summarized the literature to the area and compiled data for 76 stations sampled between June 1948 and June 1966 and scattered from Albemarle to Bogue Sounds; those sounds to the south of Bogue Sound were sampled at irregular intervals or remained too poorly studied to report upon.

Recently, Newton, Pilkey, and Blanton (1971) summarized the hydrographic conditions along the North Carolina coast but data still remained wanting for the sounds or estuaries. Sporadic observations were noted by Woods (1967), Williams and Deubler (1968), Williams, Murdoch, and Thomas (1968), and Thayer (1971), for some of the same areas studied by Williams et al. Only Williams

and Deubler (1968) and Carpenter (1971) report on limited data from Lockwood's Folly and the Cape Fear River, to the south of Bogue Sound. Several unpublished works by Copeland and Hobbie exist for observations on portions of the lower Pamlico River. This report presents data compiled in 1972.

Scientists and the public are taking more interest and concern toward estuaries (Lauff, 1967) and use of North Carolina's coastal waters. As a result of two projects which took us into all North Carolina's estuaries but Currituck Sound (primarily a freshwater sound), monthly water temperature and salinity samples were conducted in 1972 at 84 established stations located between Virginia and South Carolina (Fig. 1). Surface and bottom data were obtained by sampling with a three liter Kemmerer water sampler. Water temperatures were obtained with mercury thermometers and read to the nearest degree Celcius while salinities were noted to the nearest part per thousand with a A/O salinity refractometer.

Major hydrographic features are shown as 42 isohaline or isotherm surface and bottom figures (Figs. 2-43). Monthly raw data is listed in Tables 1-82. Precise station locations (Table 83) can be found on the most recent U. S. Coast and Geodetic Survey and Harbor charts.

Acknowledgements

Many people contributed time and effort in obtaining segments of the data we report. All were Institute personnel or students. Boats were manned by Captains T. Kellum and Elmo Murphy; mates were Jerry Spencer and William Willis. Students were Allyn Powell, Roy Hyle, Steve Bortone, Teri L. Herbert, Ann LeFurgey, and Howard Marshall. Research assistants were Robert Chapman, Kenneth Bradley, and Vicki Hyman. Rosemond Baldree prepared the tables, figures, and typed the final copy of this report.

Field observations were, in part, made possible during support by grants: Public Law 89-720, Jellyfish Act and The U. S. Army Corps Engineers, Wilmington, N. C. district. Publication support was possible with Sea Grant Funds.

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Table 1. Albemarle Sound East.

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

	Temperature				Salinity			
Mo.	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$
				Surface				
J			ND	ND			ND	ND
F			1	10.0			1	2.8
M			1	12.0			1	0.0
A			1	18.0			1	5.5
M			1	21.0			1	1.1
J			1	24.8			1	1.1
J			1	32.2			1	1.6
A			1	26.6			1	2.2
S			1	22.5			1	1.1
O			1	17.2			1	1.6
N			1	12.5			1	1.1
D			ND	ND			ND	ND
				Bottom				
J			ND	ND			ND	ND
F			1	8.0			1	0.0
M			1	12.0			1	0.0
A			1	17.0			1	8.3
M			ND	ND			ND	1.7
J			ND	ND			ND	ND
J			1	28.0			1	1.6
A			1	27.0			1	5.5
S			1	22.0			1	1.1
O			ND	ND			1	1.6
N			1	12.0			1	1.6
D			ND	ND			ND	ND

Table 2. Albemarle Sound North.

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

	Temperature				Salinity			
Mo.	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$
				Surface				
J			ND	ND			ND	ND
F			1	7.0			1	0.0
M			1	12.0			1	0.0
A			1	17.0			1	1.1
M			1	21.0			1	0.0
J			1	23.8			1	1.1
J			1	30.0			1	0.6
A			1	26.6			1	1.1
S			1	22.9			1	2.2
O			1	17.5			1	1.1
N			1	13.2			1	0.0
D			ND	ND			ND	ND
				Bottom				
J			ND	ND			ND	ND
F			1	7.0			1	0.0
M			1	12.0			1	0.0
A			1	16.0			1	1.1
M			1	20.0			1	2.2
J			1	24.0			1	1.1
J			1	28.0			1	1.6
A			1	27.0			1	1.1
S			1	22.5			1	2.2
O			ND	ND			1	1.1
N			1	12.0			1	0.0
D			ND	ND			ND	ND

Table 3. Albemarle Sound Northwest.

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

	Temperature				Salinity			
Mo.	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$
				Surface				
J			ND	ND			ND	ND
F			1	7.0			1	0.0
M			1	12.0			1	0.0
A			1	16.0			1	0.6
M			1	21.0			1	1.1
J			1	23.8			1	1.1
J			1	30.0			1	1.6
A			1	26.5			1	0.0
S			1	22.9			1	1.1
O			1	17.4			1	1.1
N			1	13.2			1	0.0
D			ND	ND			ND	ND
				Bottom				
J			ND	ND			ND	ND
F			1	7.0			1	0.0
M			1	10.0			1	0.0
A			1	17.0			1	0.6
M			1	21.0			1	0.6
J			1	24.0			1	1.1
J			1	27.0			1	2.7
A			1	26.5			1	0.0
S			1	22.5			1	1.6
O			ND	ND			1	1.1
N			1	13.0			1	0.0
D			ND	ND			ND	ND

Table 4. Albemarle Sound West.

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

	Temperature				Salinity			
Mo.	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$
				Surface				
J			ND	ND			ND	ND
F			1	7.0			1	0.0
M			1	13.0			1	0.0
A			1	16.0			1	0.0
M			1	21.5			1	0.0
J			1	24.0			1	1.1
J			1	27.6			1	1.4
A			1	26.5			1	0.0
S			1	23.0			1	1.1
O			1	17.6			1	1.1
N			1	13.4			1	0.0
D			ND	ND			ND	ND
				Bottom				
J			ND	ND			ND	ND
F			1	7.0			1	0.0
M			1	11.0			ND	ND
A			1	17.0			1	0.0
M			1	20.5			1	0.0
J			1	23.0			1	1.1
J			1	27.5			1	2.2
A			1	26.0			1	0.0
S			1	23.0			1	1.1
O			ND	ND			1	1.1
N			1	13.0			1	0.0
D			ND	ND			ND	ND

Table 5. Albemarle Sound South.

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

	Temperature				Salinity			
Mo.	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$
				Surface				
J			ND	ND			ND	ND
F			1	7.0			1	0.0
M			1	12.0			1	0.0
A			1	17.0			1	1.7
M			1	21.0			1	0.0
J			1	24.0			1	1.6
J			1	31.0			1	1.6
A			1	26.6			1	0.0
S			1	22.8			1	1.1
O			1	17.5			1	2.2
N			1	13.4			1	0.0
D			ND	ND			ND	ND
				Bottom				
J			ND	ND			ND	ND
F			1	6.5			1	0.0
M			1	11.0			1	0.0
A			1	17.0			1	2.8
M			1	20.0			1	0.6
J			1	24.5			1	1.6
J			1	27.5			1	1.6
A			1	27.0			1	0.0
S			1	22.5			1	1.1
O			ND	ND			1	2.7
N			1	13.0			1	0.0
D			ND	ND			ND	ND

Table 6. Alligator River Entrance.

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

Mo.	Temperature Max.	Temperature Min.	Temperature No.	Temperature $\bar{x}$	Salinity Max.	Salinity Min.	Salinity No.	Salinity $\bar{x}$
				Surface				
J			ND	ND			ND	ND
F			1	7.0			1	0.0
M			1	11.0			1	0.0
A			1	19.0			1	0.6
M			1	21.0			1	0.0
J			1	24.0			1	1.6
J			1	29.6			1	0.6
A			1	26.2			1	0.0
S			1	22.0			1	0.0
O			1	17.2			1	1.1
N			1	12.5			1	0.0
D			ND	ND			ND	ND
				Bottom				
J			ND	ND			ND	ND
F			1	6.5			1	0.0
M			1	11.0			1	0.0
A			1	18.5			1	1.1
M			1	21.0			1	0.0
J			1	25.0			1	1.1
J			1	27.5			1	0.6
A			1	26.0			1	0.0
S			1	22.0			1	0.6
O			ND	ND			ND	ND
N			1	12.5			1	0.0
D			ND	ND			ND	ND

Table 7. Alligator River Marker "8".

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

	Temperature				Salinity			
Mo.	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$
				Surface				
J			ND	ND			ND	ND
F			1	8.0			1	0.0
M			1	8.0			1	0.0
A			1	18.5			1	1.1
M			1	22.0			1	0.0
J			1	25.0			1	1.6
J			1	28.5			1	0.3
A			1	27.0			1	0.0
S			1	23.0			1	0.0
O			1	17.0			1	0.5
N			1	13.2			1	0.0
D			ND	ND			ND	ND
				Bottom				
J			ND	ND			ND	ND
F			1	7.5			1	0.0
M			1	7.0			1	0.0
A			1	19.0			1	1.1
M			1	21.0			1	0.0
J			ND	ND			1	1.6
J			1	28.0			1	0.3
A			1	28.0			1	0.0
S			1	22.5			1	0.0
O			ND	ND			1	0.5
N			1	13.0			1	0.0
D			ND	ND			ND	ND

Table 8. Alligator River Marker "20"

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

	Temperature				Salinity			
Mo.	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$
				Surface				
J			ND	ND			ND	ND
F			1	8.0			1	0.0
M			1	13.0			1	0.0
A			1	19.0			1	1.1
M			1	22.0			1	0.0
J			1	25.8			1	0.6
J			1	28.2			1	0.6
A			1	29.2			1	1.6
S			1	23.1			1	0.0
O			1	17.5			1	0.5
N			1	12.8			1	0.0
D			ND	ND			ND	ND
				Bottom				
J			ND	ND			ND	ND
F			1	8.0			1	0.0
M			1	12.0			1	0.0
A			1	19.0			1	2.2
M			1	22.0			1	0.0
J			1	26.5			1	0.0
J			1	28.0			1	0.6
A			1	27.5			1	1.6
S			1	23.0			1	0.0
O			ND	ND			1	0.5
N			ND	ND			1	0.0
D			ND	ND			ND	ND

Table 9. Alligator River Marker "28".

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

	Temperature				Salinity			
Mo.	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$
				Surface				
J			ND	ND			ND	ND
F			1	8.0			1	0.0
M			1	13.0			1	0.0
A			1	20.0			1	1.1
M			1	22.0			1	0.0
J			1	25.7			1	1.6
J			1	27.4			1	0.6
A			1	29.0			1	1.1
S			1	23.4			1	1.1
O			1	17.6			1	0.0
N			1	13.0			1	0.0
D			ND	ND			ND	ND
				Bottom				
J			ND	ND			ND	ND
F			1	8.0			1	0.0
M			1	12.0			ND	ND
A			1	20.0			1	0.6
M			1	21.0			1	0.0
J			1	26.0			1	1.6
J			1	28.0			1	0.6
A			1	27.0			1	1.6
S			1	23.0			1	1.1
O			ND	ND			1	0.0
N			ND	ND			1	0.0
D			ND	ND			ND	ND

Table 10. Croatan North.

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

	Temperature				Salinity			
Mo.	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$
				Surface				
J			ND	ND			ND	ND
F			1	8.0			1	8.3
M			1	12.0			1	0.0
A			1	18.0			1	5.5
M			1	22.0			1	1.7
J			1	25.0			1	4.9
J			1	28.6			1	1.6
A			1	26.8			1	7.1
S			1	22.4			1	2.2
O			1	17.0			1	1.1
N			1	12.2			1	3.2
D			ND	ND			ND	ND
				Bottom				
J			ND	ND			ND	ND
F			1	9.0			1	9.9
M			1	13.0			ND	ND
A			1	18.0			1	5.5
M			1	21.0			1	2.8
J			1	24.8			1	4.4
J			1	27.0			1	1.6
A			1	26.5			1	6.6
S			1	22.0			1	2.2
O			ND	ND			1	1.1
N			1	12.0			1	3.2
D			ND	ND			ND	ND

Table 11. Croatan Sound.

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

	Temperature				Salinity			
Mo.	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$
				Surface				
J			ND	ND			ND	ND
F			1	8.0			1	6.6
M			1	12.0			1	0.0
A			1	18.0			1	5.5
M			1	23.0			1	2.2
J			1	25.8			1	5.5
J			1	28.2			1	1.6
A			1	27.8			1	9.8
S			1	23.5			1	1.6
O			1	17.8			1	2.7
N			1	14.2			1	6.0
D			ND	ND			ND	ND
				Bottom				
J			ND	ND			ND	ND
F			1	8.0			1	5.5
M			1	11.0			1	0.0
A			1	18.0			1	7.7
M			1	21.0			1	11.6
J			1	25.3			1	5.5
J			1	29.0			1	1.6
A			1	27.0			1	12.0
S			1	23.0			1	2.2
O			ND	ND			1	3.8
N			1	13.5			1	6.6
D			ND	ND			ND	ND

Table 12. Croatan South.

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

	Temperature				Salinity			
Mo.	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$
				Surface				
J			ND	ND			ND	ND
F			1	8.0			1	15.4
M			1	11.0			1	8.0
A			1	18.0			1	9.9
M			1	24.0			1	6.6
J			1	26.5			1	6.0
J			1	27.2			1	1.4
A			1	25.7			1	10.9
S			1	24.0			1	3.8
O			1	17.6			1	6.6
N			1	15.0			1	18.6
D			1	11.4			1	1.1
				Bottom				
J			ND	ND			ND	ND
F			1	9.0			1	16.5
M			1	11.0			1	16.0
A			1	18.0			1	12.1
M			1	23.0			1	11.5
J			1	24.8			1	12.1
J			1	27.5			1	4.0
A			1	26.0			1	24.1
S			1	23.5			1	3.8
O			ND	ND			1	6.0
N			1	14.5			1	19.7
D			ND	ND			ND	ND

Table 13. Oregon Inlet

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

	Temperature				Salinity			
Mo.	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$
				Surface				
J			ND	ND			ND	ND
F			1	7.5			1	13.2
M			1	11.0			1	11.0
A			1	17.5			1	16.5
M			1	24.0			1	16.5
J			1	27.0			1	12.1
J			1	27.5			1	7.1
A			1	25.5			1	25.7
S			1	23.0			1	31.8
O			1	18.8			1	30.7
N			1	14.8			1	18.0
D			ND	ND			ND	ND
				Bottom				
J			ND	ND			ND	ND
F			1	7.5			1	14.3
M			1	10.0			1	20.9
A			1	17.3			1	17.6
M			1	23.0			1	17.0
J			1	25.0			1	15.9
J			1	27.5			1	7.1
A			1	26.0			1	26.3
S			1	23.0			1	31.8
O			ND	ND			1	30.7
N			1	15.0			1	18.6
D			ND	ND			ND	ND

Table 14. Stumpy Point East 35° 40' N 75° 40' W.

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

	Temperature				Salinity			
Mo.	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$
				Surface				
J			ND	ND			ND	ND
F			1	7.5			1	13.8
M			1	11.0			1	11.0
A			1	17.5			1	17.1
M			1	25.0			1	5.5
J			1	27.0			1	9.9
J			1	28.9			1	6.6
A			1	26.5			1	12.6
S			1	26.0			1	18.6
O			1	18.2			1	19.7
N			1	15.3			1	18.6
D			1	12.2			1	5.5
				Bottom				
J			ND	ND			ND	ND
F			1	8.0			1	14.3
M			1	11.0			1	11.0
A			1	17.2			1	17.6
M			1	23.5			1	11.0
J			1	24.5			1	14.2
J			1	27.3			1	15.3
A			1	26.0			1	24.6
S			1	26.0			1	20.3
O			ND	ND			1	27.3
N			1	16.0			1	19.2
D			ND	ND			ND	ND

Table 15. Stumpy Point Entrance.

(Temperatures are ^{o}C and salinities are p.p.t.)

	Temperature				Salinity				Oxygen			
Mo.	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$
					Surface							
J			ND	ND			ND	ND			ND	ND
F			1	8.0			1	15.4			ND	ND
M			1	12.0			1	11.6			ND	ND
A			1	18.0			1	15.9			ND	ND
M			1	21.5			1	7.2			ND	ND
J			1	27.0			1	9.9			ND	ND
J			1	29.1			1	4.9			ND	ND
A			1	26.6			1	12.0			1	8.4
S			1	26.0			1	18.6			1	3.7
O			1	18.2			1	19.7			1	5.9
N			1	15.4			1	17.5			1	7.2
D			1	12.0			1	7.1			ND	ND
					Bottom							
J			ND	ND			ND	ND			ND	ND
F			1	8.0			1	14.9			ND	ND
M			1	10.5			1	15.9			ND	ND
A			1	17.5			1	17.6			ND	ND
M			1	22.0			1	12.7			ND	ND
J			1	26.0			1	14.2			ND	ND
J			1	27.5			1	13.7			ND	ND
A			1	26.5			1	12.0			1	7.6
S			1	26.0			1	20.8			1	5.0
O			ND	ND			1	20.9			1	5.9
N			1	16.0			1	20.8			1	6.2
D			ND	ND			ND	ND			ND	ND

Table 16. Pamlico Sound. Northeast of Long Shoal

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

Mo.	Temperature Max.	Temperature Min.	Temperature No.	Temperature $\bar{x}$	Salinity Max.	Salinity Min.	Salinity No.	Salinity $\bar{x}$
				Surface				
J			ND	ND			ND	ND
F			1	8.0			1	13.2
M			1	12.0			1	15.9
A			1	17.5			1	18.2
M			1	26.0			1	16.5
J			1	25.8			1	16.4
J			1	28.8			1	15.9
A			1	26.2			1	16.4
S			1	26.0			1	19.2
O			1	18.2			1	19.7
N			1	15.4			1	18.0
D			1	11.8			1	9.9
				Bottom				
J			ND	ND			ND	ND
F			1	8.0			1	13.2
M			1	11.5			1	16.5
A			1	17.3			1	18.7
M			1	22.0			1	17.6
J			1	24.5			1	17.5
J			1	27.5			1	18.1
A			1	26.0			1	16.4
S			1	25.5			1	20.8
O			ND	ND			1	19.7
N			1	16.0			1	18.0
D			ND	ND			ND	ND

Table 17. Northwest of Clam Shoal 35° 23' N 75° 42' W

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

	Temperature				Salinity			
Mo.	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$
				Surface				
J			ND	ND			ND	ND
F			1	8.0			1	16.5
M			1	12.0			1	17.6
A			1	18.5			1	18.2
M			1	23.5			1	17.6
J			1	25.3			1	19.7
J			1	28.0			1	20.3
A			1	26.0			1	19.2
S			1	26.0			1	19.2
O			1	18.6			1	20.9
N			1	15.6			1	19.7
D			1	11.5			1	20.3
				Bottom				
J			ND	ND			ND	ND
F			1	8.0			1	23.1
M			1	12.5			1	17.6
A			1	17.5			1	18.7
M			1	22.0			1	23.6
J			1	24.0			1	25.2
J			1	27.0			1	24.1
A			1	26.0			1	20.3
S			1	25.0			1	20.3
O			ND	ND			1	21.4
N			1	16.0			1	18.6
D			ND	ND			ND	ND

Table 18. Hatteras Inlet

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

	Temperature				Salinity			
Mo.	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$
				Surface				
J			ND	ND			ND	ND
F			1	8.0			1	16.5
M			1	12.0			1	16.5
A			1	17.5			1	18.2
M			1	23.0			1	19.8
J			1	24.8			1	21.9
J			1	27.7			1	20.8
A			1	25.5			1	19.7
S			1	26.0			1	19.7
O			1	18.6			1	20.9
N			1	16.0			1	21.9
D			1	12.8			1	19.7
				Bottom				
J			ND	ND			ND	ND
F			1	11.0			1	29.1
M			1	13.0			1	19.8
A			1	16.5			1	25.3
M			1	22.0			1	25.3
J			1	24.8			1	28.5
J			1	27.5			1	26.8
A			1	26.0			1	28.5
S			1	25.5			1	20.3
O			ND	ND			1	21.9
N			1	17.0			1	21.9
D			ND	ND			ND	ND

Table 19. Hatteras Inlet - Shark Shoal.

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

	Temperature				Salinity			
Mo.	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$
				Surface				
J			ND	ND			ND	ND
F			1	8.5			1	17.1
M			1	13.0			1	18.7
A			1	18.0			1	18.7
M			1	23.0			1	20.9
J			1	24.9			1	21.9
J			1	28.0			1	24.1
A			1	25.5			1	18.6
S			1	25.5			1	19.2
O			1	18.2			1	21.4
N			1	16.0			1	21.4
D			1	12.2			1	19.7
				Bottom				
J			ND	ND			ND	ND
F			1	9.0			1	16.5
M			1	13.0			1	18.7
A			1	17.0			1	25.9
M			1	22.5			1	22.0
J			1	24.9			1	24.1
J			1	23.6			1	24.1
A			1	26.0			1	21.4
S			1	25.0			1	21.9
O			ND	ND			1	21.9
N			1	16.0			1	21.4
D			ND	ND			ND	ND

Table 20. Southeast of Gull Shoal 35° 23' N 75°53.5' W.

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

	Temperature				Salinity			
Mo.	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$
				Surface				
J			ND	ND			ND	ND
F			1	7.5			1	14.9
M			1	11.5			1	15.9
A			1	16.5			1	16.5
M			1	22.5			1	16.5
J			1	24.9			1	18.6
J			1	27.5			1	19.7
A			1	26.0			1	19.7
S			1	25.0			1	18.6
O			1	18.6			1	21.4
N			1	15.4			1	20.8
D			1	11.4			1	19.7
				Bottom				
J			ND	ND			ND	ND
F			1	7.5			1	17.6
M			1	11.7			1	24.8
A			1	16.5			1	24.2
M			1	21.5			1	21.5
J			1	23.8			1	27.4
J			1	27.5			1	20.3
A			1	26.0			1	21.4
S			1	24.5			1	22.5
O			ND	ND			1	21.9
N			1	16.0			1	20.8
D			ND	ND			ND	ND

Table 21. Wysocking Bay - Gull Shoal R"4".

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

	Temperature				Salinity			
Mo.	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$
				Surface				
J			ND	ND			ND	ND
F			1	8.5			1	13.2
M			1	12.0			1	14.3
A			1	18.0			1	15.4
M			1	22.0			1	12.7
J			1	25.0			1	18.1
J			1	27.4			1	17.5
A			1	25.6			1	15.9
S			1	25.5			1	16.9
O			1	18.0			ND	ND
N			1	15.4			1	20.8
D			1	11.0			1	18.6
				Bottom				
J			ND	ND			ND	ND
F			1	8.5			1	13.2
M			1	11.0			1	16.5
A			1	17.5			1	14.9
M			1	22.0			1	16.5
J			1	25.2			1	18.1
J			1	23.5			1	18.1
A			1	26.0			1	15.9
S			ND	ND			1	17.5
O			ND	ND			ND	ND
N			1	16.0			1	19.7
D			ND	ND			ND	ND

Table 22. Pamlico Sound. South of Long Shoal.

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

	Temperature				Salinity			
Mo.	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$
				Surface				
J			ND	ND			ND	ND
F			1	7.5			1	13.8
M			1	12.0			1	17.1
A			1	17.5			1	18.7
M			1	26.0			1	17.0
J			1	25.3			1	18.0
J			1	28.2			1	17.5
A			1	26.0			1	18.0
S			1	26.0			1	18.6
O			1	18.8			ND	ND
N			1	15.5			1	19.2
D			1	11.6			1	14.7
				Bottom				
J			ND	ND			ND	ND
F			1	8.0			1	13.8
M			1	11.8			1	17.1
A			1	18.5			1	18.7
M			1	23.0			1	17.6
J			1	24.5			1	21.9
J			1	27.5			1	20.8
A			1	26.0			1	18.6
S			1	25.5			1	20.8
O			ND	ND			ND	ND
N			1	16.0			1	19.2
D			ND	ND			ND	ND

Table 23. Big Foot Slough Channel.

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

	Temperature				Salinity				Oxygen			
Mo.	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$
					Surface							
J			1	14.0			1	21.4			ND	ND
F			1	9.0			1	16.9			ND	ND
M	14.0	13.5	2	13.8	25.0	17.6	2	21.3			ND	ND
A	18.5	18.5	2	18.5	17.6	17.5	2	17.6			ND	ND
M			1	21.7			1	21.9			ND	ND
J	25.8	24.7	2	25.3	22.0	19.7	2	20.9			ND	ND
J	28.4	28.4	2	28.4	20.8	17.5	2	19.2			ND	ND
A			1	26.0			1	22.5			1	9.6
S			1	25.5			1	19.7			ND	ND
O			1	17.3			1	19.7			1	8.5
N			1	15.4			1	23.0			1	5.0
D			1	12.0			1	18.6			1	10.3
					Bottom							
J			1	16.0			1	32.9	11.2	9.6	2	10.4
F			1	9.0			1	18.1	11.6	10.7	2	11.2
M	14.5	13.7	2	14.1	25.3	19.3	2	22.3			1	14.7
A	18.2	18.2	2	18.2	20.8	20.4	2	20.6			1	8.9
M			1	21.5			1	23.3			1	9.7
J	25.7	24.8	2	25.3	23.8	22.0	2	22.9			1	8.4
J	28.3	28.0	2	28.2	20.8	20.8	2	20.8			1	8.4
A			1	25.0			1	21.9			1	8.2
S			1	25.5			1	20.3			ND	ND
O			ND	ND			1	20.3			1	8.5
N			1	16.0			1	23.0			1	6.0
D												

Table 24. Teach's Hole Channel.

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

	Temperature				Salinity				Oxygen			
Mo.	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$
					Surface							
J			1	16.5			1	32.6			ND	ND
F			1	9.5			1	18.6			ND	ND
M			1	13.2			1	19.6			ND	ND
A			1	18.5			1	17.9			ND	ND
M			1	21.5			1	28.6			ND	ND
J			1	26.3			1	23.0			ND	ND
J			1	28.1			1	22.2			ND	ND
A			1	26.0			1	21.4			1	8.7
S			1	26.0			1	20.8			1	7.7
O			1	18.0			1	23.0			1	7.9
N			1	17.0			1	30.0			1	3.4
D			1	12.4			1	20.3			1	9.9
					Bottom							
J			1	16.8			1	33.4			1	9.1
F			1	10.0			1	21.9			1	10.7
M			1	13.7			1	20.4			1	10.4
A			1	19.2			1	20.4			1	9.7
M			1	21.5			1	28.6			1	10.6
J			1	26.5			1	24.4			1	8.6
J			1	28.5			1	21.9			1	8.7
A			1	26.0			1	23.0			1	7.9
S			1	26.0			1	20.8			1	7.5
O			ND	ND			1	25.0			1	8.1
N			1	17.0			1	31.7			ND	ND
D			ND	ND			ND	ND			ND	ND

Table 25. Royal Shoal - NW Point.

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

	Temperature				Salinity				Oxygen			
Mo.	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$
					Surface							
J			1	12.0			1	12.3			ND	ND
F			1	7.5			1	12.1			ND	ND
M			1	14.5			1	12.4			ND	ND
A			1	18.2			1	12.8			ND	ND
M			1	21.7			1	16.2			ND	ND
J			1	25.9			1	17.5			ND	ND
J			1	27.8			1	17.2			ND	ND
A			1	25.9			1	18.0			ND	ND
S			1	25.5			1	19.7			ND	ND
O			1	17.2			1	19.2			ND	ND
N			1	15.8			1	19.7			ND	ND
D			1	11.6			1	18.0			ND	ND
					Bottom							
J			1	12.3			1	12.6			1	12.7
F			1	8.0			1	13.2			1	11.8
M			1	12.7			1	13.5			ND	ND
A			1	18.0			1	13.6			1	13.9
M			1	21.5			1	17.3			1	9.4
J			1	24.2			1	19.7			1	7.6
J			1	27.5			1	18.3			1	9.3
A			1	26.0			1	18.0			ND	ND
S			1	25.0			1	19.7			ND	ND
O			ND	ND			1	19.2			ND	ND
N			1	16.0			1	19.7			ND	ND
D			ND	ND			ND	ND			ND	ND

Table 26. Bluff Shoals.

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

	Temperature				Salinity			
Mo.	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$
				Surface				
J			ND	ND			ND	ND
F			1	7.0			1	13.2
M			1	12.0			1	15.4
A			1	17.0			1	17.6
M			1	22.0			1	16.5
J			1	25.4			1	20.3
J			1	27.0			1	18.6
A			1	26.0			1	18.6
S			1	25.0			1	19.1
O			1	18.2			1	19.7
N			1	15.6			1	24.0
D			1	11.0			1	18.0
				Bottom				
J			ND	ND			ND	ND
F			1	8.0			1	15.9
M			1	11.0			1	17.6
A			1	16.8			1	22.6
M			1	21.0			1	23.1
J			1	24.0			1	23.6
J			1	27.0			1	19.7
A			1	26.0			1	20.3
S			1	25.0			1	19.1
O			ND	ND			1	20.3
N			1	16.0			1	23.0
D			ND	ND			ND	ND

Table 27. Brant Island Shoal East.

(Temperatures are ^{o}C and salinities are p.p.t.)

	Temperature				Salinity				Oxygen			
Mo.	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$
					Surface							
J			1	11.8			1	11.8			ND	ND
F			1	7.0			1	11.5			ND	ND
M			1	13.2			1	11.8			ND	ND
A			1	18.2			1	12.7			ND	ND
M			1	21.7			1	15.9			ND	ND
J			1	26.8			1	16.2			ND	ND
J			1	27.5			1	16.4			ND	ND
A			ND	ND			ND	ND			ND	ND
S			ND	ND			ND	ND			ND	ND
O			ND	ND			ND	ND			ND	ND
N			ND	ND			ND	ND			ND	ND
D			ND	ND			ND	ND			ND	ND
					Bottom							
J			1	11.5			1	13.9			1	9.1
F			1	7.0			1	12.1			1	11.3
M			1	11.7			1	14.9			1	9.6
A			1	17.7			1	14.6			1	10.3
M			1	21.5			1	21.7			1	7.1
J			1	24.1			1	22.2			1	7.1
J			1	27.8			1	17.2			1	7.6
A			ND	ND			ND	ND			ND	ND
S			ND	ND			ND	ND			ND	ND
O			ND	ND			ND	ND			ND	ND
N			ND	ND			ND	ND			ND	ND
D			ND	ND			ND	ND			ND	ND

Table 28. Brant Island Shoal.

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

	Temperature				Salinity				Oxygen			
Mo.	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$
					Surface							
J			1	12.0			1	10.9			ND	ND
F			1	7.0			1	12.1			ND	ND
M			1	12.0			1	12.1			ND	ND
A			1	18.0			1	13.2			ND	ND
M			1	20.2			1	14.6			ND	ND
J			1	25.6			1	15.8			ND	ND
J			1	27.1			1	15.9			ND	ND
A			1	26.1			1	19.2			ND	ND
S			1	25.0			1	18.6			ND	ND
O			1	18.6			1	18.1			ND	ND
N			1	15.6			1	19.2			ND	ND
D			1	11.5			1	17.0			ND	ND
					Bottom							
J			1	11.5			1	12.3			1	11.3
F			1	7.0			1	13.4			1	11.5
M			1	11.2			1	13.8			1	9.4
A			1	17.7			1	14.3			1	9.1
M			1	20.5			1	21.2			1	9.3
J			1	23.9			1	20.8			1	6.5
J			1	27.0			1	17.0			1	7.8
A			1	26.0			1	19.2			ND	ND
S			1	25.0			1	18.6			ND	ND
O			ND	ND			1	18.6			ND	ND
N			1	16.0			1	19.7			ND	ND
D			ND	ND			ND	ND			ND	ND

Table 29. Brant Island Shoal West.

(Temperatures are ^{o}C and salinities are p.p.t.)

	Temperature				Salinity				Oxygen			
Mo.	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$
					Surface							
J			1	12.3			1	10.7			ND	ND
F			ND	ND			ND	ND			ND	ND
M			1	11.5			1	11.8			ND	ND
A			1	17.7			1	9.7			ND	ND
M			1	20.5			1	14.6			ND	ND
J			1	25.8			1	12.3			ND	ND
J			1	27.1			1	15.9			ND	ND
A			ND	ND			ND	ND			ND	ND
S			ND	ND			ND	ND			ND	ND
O			ND	ND			ND	ND			ND	ND
N			ND	ND			ND	ND			ND	ND
D			ND	ND			ND	ND			ND	ND
					Bottom							
J			1	11.8			1	12.9			1	10.6
F			ND	ND			ND	ND			1	11.8
M			1	11.5			1	13.8			1	11.1
A			1	16.0			1	8.8			1	9.2
M			1	20.5			1	15.7			1	7.3
J			1	24.3			1	18.9			1	3.8
J			1	26.5			1	16.7			1	2.8
A			ND	ND			ND	ND			ND	ND
S			ND	ND			ND	ND			ND	ND
O			ND	ND			ND	ND			ND	ND
N			ND	ND			ND	ND			ND	ND
D			ND	ND			ND	ND			ND	ND

Table 30. Rose Bay.

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

	Temperature				Salinity			
Mo.	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$
				Surface				
J			ND	ND			ND	ND
F			1	8.0			1	7.2
M			1	15.0			1	7.7
A	22.0	19.5	2	20.8	8.2	6.0	2	7.1
M			1	23.0			1	10.5
J			1	22.3			1	10.4
J			1	30.2			1	11.5
A			1	28.0			1	13.7
S			1	22.5			1	14.3
O			1	15.6			1	12.1
N			1	12.8			1	14.8
D			ND	ND			ND	ND
				Bottom				
J			ND	ND			ND	ND
F			1	8.0			1	7.2
M			1	14.0			1	7.7
A			1	19.5			1	8.8
M			1	22.5			1	11.0
J			1	27.0			1	10.9
J			1	30.0			1	12.0
A			1	27.0			1	14.3
S			1	22.0			1	14.3
O			ND	ND			1	12.6
N			1	13.0			1	14.8
D			ND	ND			ND	ND

Table 31. Swanquarter Bay.

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

	Temperature				Salinity			
Mo.	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$
				Surface				
J			ND	ND			ND	ND
F	9.0	8.0	2	8.5	8.3	7.2	2	7.7
M			1	15.0			1	8.8
A	21.0	20.0	2	20.5	9.4	5.5	2	7.4
M			1	22.0			1	11.0
J			1	26.0			1	10.9
J			1	30.1			1	13.1
A			1	28.0			1	14.8
S			1	22.5			1	14.3
O			1	15.6			1	14.8
N			1	13.0			1	17.0
D			ND	ND			ND	ND
				Bottom				
J			ND	ND			ND	ND
F	9.0	8.0	2	8.5	8.3	7.2	2	7.7
M			1	15.0			1	8.3
A			1	21.0			1	9.4
M			1	21.0			1	11.0
J			1	25.0			1	10.9
J			1	29.5			1	14.8
A			1	28.0			1	15.3
S			1	22.0			1	14.3
O			ND	ND			1	13.7
N			1	13.0			1	16.4
D			ND	ND			ND	ND

Table 32. Pungo River Marker #3.

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

	Temperature				Salinity			
Mo.	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$
				Surface				
J			ND	ND			ND	ND
F			1	8.0			1	6.6
M			1	13.0			1	6.6
A			1	19.0			1	6.6
M			1	23.0			1	6.6
J			1	26.7			1	7.7
J			1	32.0			1	7.7
A			1	27.0			1	8.7
S			1	22.4			1	12.1
O			1	16.0			1	10.9
N			1	13.2			1	13.0
D			ND	ND			ND	ND
				Bottom				
J			ND	ND			ND	ND
F			1	8.0			1	6.6
M			1	12.0			1	8.3
A			1	19.0			1	6.6
M			1	22.0			1	8.8
J			1	26.5			1	8.2
J			1	28.5			1	12.6
A			1	26.5			1	13.2
S			1	23.0			1	12.6
O			ND	ND			1	10.9
N			1	13.0			1	14.2
D			ND	ND			ND	ND

Table 33. Pungo River across from Able Bay.

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

	Temperature				Salinity			
Mo.	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$
				Surface				
J			ND	ND			ND	ND
F			1	8.0			1	6.6
M			1	13.0			1	6.1
A			1	19.0			1	7.1
M			1	23.0			1	9.4
J			1	27.2			1	9.3
J			1	29.0			1	8.8
A			1	28.5			1	10.9
S			1	23.0			1	14.3
O			1	16.2			1	11.5
N			1	13.5			1	12.6
D			ND	ND			ND	ND
				Bottom				
J			ND	ND			ND	ND
F			1	8.0			1	6.6
M			1	13.0			1	6.1
A			1	19.0			1	7.1
M			1	22.0			1	9.9
J			1	27.0			1	9.8
J			1	29.0			1	15.3
A			1	27.0			1	14.3
S			1	22.5			1	14.3
O			ND	ND			1	12.1
N			ND	ND			1	12.6
D			ND	ND			ND	ND

Table 34. Pamlico Point.

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

	Temperature				Salinity			
Mo.	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$
				Surface				
J			ND	ND			ND	ND
F			1	9.0			1	6.1
M			1	14.0			1	6.6
A			1	19.0			1	9.9
M			1	21.0			1	10.5
J			1	25.4			1	10.4
J			1	29.8			1	5.5
A			1	28.0			1	10.9
S			1	22.6			1	12.1
O			1	16.2			1	14.2
N			ND	ND			ND	ND
D			ND	ND			ND	ND
				Bottom				
J			ND	ND			ND	ND
F			1	7.0			1	6.1
M			1	14.0			1	7.7
A			1	19.0			1	9.9
M			1	20.5			1	11.0
J			1	24.0			1	10.9
J			1	29.0			1	13.1
A			1	27.0			1	13.2
S			1	22.5			1	12.1
O			ND	ND			1	15.8
N			ND	ND			ND	ND
D			ND	ND			ND	ND

Table 35. Oyster Creek (Pamlico River).

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

	Temperature				Salinity			
Mo.	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$
				Surface				
J			ND	ND			ND	ND
F			1	7.0			1	4.9
M			1	14.0			1	7.7
A			1	20.0			1	7.7
M			1	21.5			1	7.7
J			1	24.7			1	8.2
J			1	29.7			1	8.2
A			1	27.0			1	10.4
S			1	22.9			1	12.1
O			ND	ND			ND	ND
N			ND	ND			ND	ND
D			ND	ND			ND	ND
				Bottom				
J			ND	ND			ND	ND
F			1	7.0			1	4.9
M			1	14.0			1	8.3
A			1	19.0			1	8.8
M			1	21.0			1	10.5
J			1	24.0			1	8.7
J			1	29.0			1	10.4
A			1	27.0			1	10.9
S			1	23.0			1	12.6
O			ND	ND			ND	ND
N			ND	ND			ND	ND
D			ND	ND			ND	ND

Table 36. Goose Creek.

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

	Temperature				Salinity			
Mo.	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$
				Surface				
J			ND	ND			ND	ND
F			1	8.0			1	2.2
M			1	14.0			1	6.6
A			1	20.0			1	8.2
M			1	21.0			1	5.5
J			1	24.8			1	7.7
J			1	30.2			1	7.1
A			1	28.0			1	9.9
S			1	22.6			1	10.9
O			1	15.9			1	12.1
N			1	13.0			1	12.1
D			ND	ND			ND	ND
				Bottom				
J			ND	ND			ND	ND
F			1	7.5			1	2.2
M			1	14.0			1	7.7
A			1	19.0			1	8.2
M			1	20.5			1	5.5
J			1	24.3			1	8.7
J			1	29.8			1	9.9
A			1	27.0			1	13.2
S			1	22.5			1	11.5
O			ND	ND			1	12.1
N			ND	ND			ND	ND
D			ND	ND			ND	ND

Table 37. Jones Bay Marker "4".

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

	Temperature				Salinity			
Mo.	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$
				Surface				
J			ND	ND			ND	ND
F			1	8.5			1	6.6
M			1	15.0			1	11.0
A			1	21.5			1	10.9
M			1	21.0			1	10.5
J			1	26.6			1	9.9
J			1	28.5			1	9.9
A			1	28.0			1	13.2
S			1	23.1			1	14.8
O			1	15.0			1	18.1
N			1	13.0			1	14.2
D			ND	ND			ND	ND
				Bottom				
J			ND	ND			ND	ND
F			1	8.0			1	6.6
M			1	16.0			1	11.0
A			1	21.5			1	10.9
M			1	21.0			1	10.5
J			1	26.8			1	10.4
J			1	27.0			1	13.1
A			1	28.5			1	13.2
S			1	23.0			1	14.8
O			ND	ND			1	17.5
N			1	13.0			1	14.2
D			ND	ND			ND	ND

Table 38. Bay River - Bay Point Bouy.

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

	Temperature				Salinity				Oxygen			
Mo.	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$
					Surface							
J			ND	ND			ND	ND			ND	ND
F			1	8.0			1	6.6			ND	ND
M	15.0	14.0	2	14.5			1	8.8			ND	ND
A	21.0	20.0	2	20.5	12.1	12.1	2	12.1			ND	ND
M	22.0	21.0	3	21.5	11.0	10.7	2	10.9			ND	ND
J	26.5	26.5	2	26.5	12.0	11.5	2	11.8			ND	ND
J	27.0	27.9	2	27.9	14.0	13.4	2	13.7			ND	ND
A			1	27.0			1	14.8			ND	ND
S			1	23.5			1	15.3			ND	ND
O			1	15.4			1	21.9			ND	ND
N			1	12.4			1	15.3			ND	ND
D			ND	ND			ND	ND			ND	ND
					Bottom							
J			ND	ND			ND	ND	10.4	9.5	2	9.9
F			1	8.0			1	6.6	11.5	11.2	2	11.4
M	15.0	14.0	2	14.0			1	8.8	9.6	9.6	2	9.6
A	21.0	21.0	2	21.0	12.1	10.9	2	11.5	10.0	7.6	2	8.8
M	21.5	20.7	3	21.2	11.6	11.0	2	11.3	9.9	8.7	2	9.3
J	26.2	26.2	2	26.2	12.6	12.6	2	12.6	7.6	7.1	2	7.4
J	27.5	27.0	2	27.3	14.5	14.2	2	14.4	8.7	6.4	2	7.6
A			1	27.0			1	16.4			ND	ND
S			1	23.5			1	16.4			ND	ND
O			ND	ND			1	23.0			ND	ND
N			1	12.5			1	15.9			ND	ND
D			ND	ND			ND	ND			ND	ND

Table 39. Neuse River Entrance Light.

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

	Temperature				Salinity				Oxygen			
Mo.	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$
					Surface							
J			1	12.0			1	8.2			ND	ND
F			1	7.0			1	7.4			ND	ND
M			1	11.7			1	9.1			ND	ND
A			1	16.7			1	10.5			ND	ND
M			1	21.2			1	11.3			ND	ND
J			1	25.1			1	11.2			ND	ND
J			1	26.9			1	14.5			ND	ND
A			1	26.0			1	15.9			ND	ND
S			1	25.5			1	15.3			ND	ND
O			1	18.8			1	16.4			ND	ND
N			1	15.6			1	15.9			ND	ND
D			1	11.4			1	13.0			ND	ND
					Bottom							
J			1	12.0			1	9.6			1	10.0
F			1	7.0			1	7.9			1	11.6
M			1	11.5			1	11.0			1	11.5
A			1	15.5			1	13.5			1	9.1
M			1	21.7			1	11.6			1	10.2
J			1	23.9			1	16.7			1	7.9
J			1	27.0			1	15.9			1	8.3
A			1	26.0			1	15.9			ND	ND
S			1	25.5			1	15.9			ND	ND
O			ND	ND			1	17.0			ND	ND
N			1	16.0			1	16.1			ND	ND
D			ND	ND			ND	ND			ND	ND

Table 40. Gum Thicket Shoal Marker R "6".

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

	Temperature				Salinity				Oxygen			
Mo.	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$
					Surface							
J			1	12.0			1	8.5			ND	ND
F			1	7.0			1	6.3			ND	ND
M			1	11.5			1	9.4			ND	ND
A			1	15.5			1	11.6			ND	ND
M			1	21.2			1	9.4			ND	ND
J			1	25.3			1	12.1			ND	ND
J			1	27.5			1	12.9			ND	ND
A			1	24.9			1	15.3			ND	ND
S			1	25.5			1	13.1			ND	ND
O			1	18.8			1	17.0			ND	ND
N			1	15.6			1	14.8			ND	ND
D			1	11.5			1	11.5			ND	ND
					Bottom							
J			1	12.0			1	9.3			1	9.7
F			1	7.3			1	6.3			1	10.2
M			1	12.0			1	9.4			1	10.2
A			1	15.8			1	12.1			1	9.9
M			1	21.0			1	11.6			1	3.2
J			1	24.5			1	13.1			1	9.0
J			1	27.3			1	13.4			1	9.5
A			1	26.0			1	15.3			ND	ND
S			1	25.5			1	13.6			ND	ND
O			ND	ND			1	17.0			ND	ND
N			1	16.0			1	15.3			ND	ND
D			ND	ND			ND	ND			ND	ND

Table 41. West Bay.

(Temperatures are ^{o}C and salinities are p.p.t.)

	Temperature				Salinity			
Mo.	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$
				Surface				
J			ND	ND			ND	ND
F			ND	ND			ND	ND
M			1	11.0			1	8.8
A			1	19.0			1	10.0
M			1	18.0			1	15.0
J			1	26.0			1	12.1
J			ND	ND			ND	ND
A			1	27.0			1	17.0
S			1	24.5			1	14.7
O			ND	ND			ND	ND
N			1	17.0			1	14.3
D			ND	ND			ND	ND
				Bottom				
J			ND	ND			ND	ND
F			ND	ND			ND	ND
M			ND	ND			ND	ND
A			1	18.5			ND	ND
M			1	18.0			ND	ND
J			ND	ND			ND	ND
J			ND	ND			ND	ND
A			ND	ND			ND	ND
S			1	24.0			1	15.3
O			ND	ND			ND	ND
N			ND	ND			1	14.3
D			ND	ND			ND	ND

Table 42. Turnagain Bay.

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

	Temperature				Salinity			
Mo.	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$
				Surface				
J			ND	ND			ND	ND
F			ND	ND			ND	ND
M			1	11.0			1	5.5
A			1	19.0			1	7.0
M			1	19.0			1	9.0
J			1	25.5			1	7.7
J			ND	ND			ND	ND
A			1	27.0			1	9.9
S			1	25.0			1	12.1
O			ND	ND			ND	ND
N			ND	ND			ND	ND
D			ND	ND			ND	ND
				Bottom				
J			ND	ND			ND	ND
F			ND	ND			ND	ND
M			ND	ND			ND	ND
A			1	16.0			ND	ND
M			1	17.0			ND	ND
J			ND	ND			ND	ND
J			ND	ND			ND	ND
A			ND	ND			ND	ND
S			1	25.0			1	12.1
O			ND	ND			ND	ND
N			ND	ND			1	13.7
D			ND	ND			ND	ND

Table 43. Garbacon Shoal.

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

	Temperature				Salinity				Oxygen			
Mo.	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$
					Surface							
J			1	13.3			1	5.2			ND	ND
F			1	8.0			1	1.1			ND	ND
M			1	14.0			1	7.7			ND	ND
A			1	16.5			1	9.9			ND	ND
M			1	20.7			1	8.8			ND	ND
J			1	25.0			1	9.3			ND	ND
J			1	28.0			1	10.9			ND	ND
A			1	26.0			1	15.3			ND	ND
S			1	25.5			1	10.9			ND	ND
O			1	18.8	14.8	13.1	2	13.6			ND	ND
N			1	15.5			1	14.2			ND	ND
D			1	12.0			1	8.7			ND	ND
					Bottom							
J			1	12.0			1	9.9			1	8.7
F			1	8.5			1	1.1			1	11.3
M			1	14.0			1	7.7			1	10.4
A			1	15.0			1	12.9			1	5.7
M			1	21.0			1	9.9			ND	ND
J			1	24.4			1	15.6			1	5.2
J			1	26.0			1	16.7			1	3.3
A			1	26.0			1	15.3			ND	ND
S			1	24.0			1	16.4			ND	ND
O			ND	ND	14.8	12.1	2	13.5			ND	ND
N			1	15.5			1	14.2			ND	ND
D			ND	ND			ND	ND			ND	ND

Table 44. Neuse River - Bridgeton.

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

	Temperature				Salinity			
Mo.	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$
				Surface				
J			ND	ND			ND	ND
F	10.0	9.0	2	9.5	0.0	0.0	2	0.0
M			ND	ND			ND	ND
A			ND	ND			ND	ND
M			1	21.0			1	1.0
J	25.0	20.0	1	22.5	1.6	0.0	2	0.8
J			ND	ND			ND	ND
A			1	27.5			1	4.9
S			ND	ND			ND	ND
O			1	20.0			1	3.8
N			1	18.0			1	6.0
D			ND	ND			ND	ND
				Bottom				
J			ND	ND			ND	ND
F			ND	ND			ND	ND
M			ND	ND			ND	ND
A			ND	ND			ND	ND
M			ND	ND			ND	ND
J			ND	ND			ND	ND
J			ND	ND			ND	ND
A			ND	ND			ND	ND
S			ND	ND			ND	ND
O			ND	ND			ND	ND
N			ND	ND			ND	ND
D			ND	ND			ND	ND

Table 45. Middle Marsh.

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

	Temperature				Salinity			
Mo.	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$
				Surface				
J			ND	ND			ND	ND
F			ND	ND			ND	ND
M			1	14.0			1	31.9
A			1	18.5			ND	ND
M			1	19.5			1	32.0
J			1	25.0			1	30.7
J			ND	ND			ND	ND
A			1	29.0			1	34.5
S			1	26.5			1	30.6
O			ND	ND			ND	ND
N			ND	ND			1	28.5
D			ND	ND			ND	ND
				Bottom				
J			ND	ND			ND	ND
F			ND	ND			ND	ND
M			ND	ND			ND	ND
A			1	18.5			ND	ND
M			1	19.0			ND	ND
J			ND	ND			ND	ND
J			ND	ND			ND	ND
A			ND	ND			ND	ND
S			1	27.0			1	30.6
O			ND	ND			ND	ND
N			ND	ND			1	26.8
D			ND	ND			ND	ND

Table 46. Drum Inlet.

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

	Temperature				Salinity			
Mo.	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$
				Surface				
J			ND	ND			ND	ND
F			ND	ND			ND	ND
M			1	13.0			1	30.3
A			1	19.0			1	26.0
M			1	18.0			1	28.0
J			1	25.0			1	25.2
J			ND	ND			ND	ND
A			1	22.5			1	35.6
S			1	25.0			1	23.0
O			ND	ND			ND	ND
N			ND	ND			1	19.2
D			ND	ND			ND	ND
				Bottom				
J			ND	ND			ND	ND
F			ND	ND			ND	ND
M			ND	ND			ND	ND
A			1	18.0			ND	ND
M			1	17.0			ND	ND
J			ND	ND			ND	ND
J			ND	ND			ND	ND
A			ND	ND			ND	ND
S			1	25.5			1	24.1
O			ND	ND			ND	ND
N			ND	ND			1	20.8
D			ND	ND			ND	ND

Table 47. Marshallburg.

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

	Temperature				Salinity			
Mo.	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$
				Surface				
J			ND	ND			ND	ND
F			ND	ND			ND	ND
M			1	18.0			1	30.3
A			1	19.5			1	32.0
M			1	20.0			1	32.0
J			1	26.5			ND	ND
J			ND	ND			ND	ND
A			1	29.0			1	35.6
S			1	26.0			1	25.7
O			ND	ND			ND	ND
N			ND	ND			1	27.4
D			ND	ND			ND	ND
				Bottom				
J			ND	ND			ND	ND
F			ND	ND			ND	ND
M			ND	ND			ND	ND
A			1	19.8			ND	ND
M			1	18.0			ND	ND
J			ND	ND			ND	ND
J			ND	ND			ND	ND
A			ND	ND			ND	ND
S			1	26.0			1	25.7
O			ND	ND			ND	ND
N			ND	ND			1	26.3
D			ND	ND			ND	ND

Table 48. Barden Inlet.

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

	Temperature				Salinity			
Mo.	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$
				Surface				
J			ND	ND			ND	ND
F			ND	ND			ND	ND
M			1	14.0			1	33.0
A			1	17.0			ND	ND
M			1	19.0			1	33.0
J			1	24.0			1	31.8
J			ND	ND			ND	ND
A			1	30.0			1	37.8
S			1	26.5			1	32.9
O			ND	ND			ND	ND
N			ND	ND			1	29.6
D			ND	ND			ND	ND
				Bottom				
J			ND	ND			ND	ND
F			ND	ND			ND	ND
M			ND	ND			ND	ND
A			1	17.0			ND	ND
M			1	18.0			ND	ND
J			ND	ND			ND	ND
J			ND	ND			ND	ND
A			ND	ND			ND	ND
S			1	27.0			1	31.2
O			ND	ND			ND	ND
N			ND	ND			1	30.7
D			ND	ND			ND	ND

Table 49. Beaufort Inlet.

(Temperatures are ^{o}C and salinities are p.p.t.)

Mo.	Temperature Max.	Temperature Min.	Temperature No.	Temperature $\bar{x}$	Salinity Max.	Salinity Min.	Salinity No.	Salinity $\bar{x}$
				Surface				
J			ND	ND			ND	ND
F			ND	ND			ND	ND
M			1	13.0			1	33.0
A			1	17.0			ND	ND
M			1	19.0			1	32.0
J			1	24.0			1	31.8
J			ND	ND			ND	ND
A			1	30.0			1	36.1
S			1	27.0			1	32.3
O			ND	ND			ND	ND
N			ND	ND			1	31.2
D			ND	ND			ND	ND
				Bottom				
J			ND	ND			ND	ND
F			ND	ND			ND	ND
M			ND	ND			ND	ND
A			1	17.0			ND	ND
M			1	20.0			ND	ND
J			ND	ND			ND	ND
J			ND	ND			ND	ND
A			ND	ND			ND	ND
S			1	26.5			1	31.8
O			ND	ND			ND	ND
N			ND	ND			ND	ND
D			ND	ND			ND	ND

Table 50. Newport River Bridge.

(Temperatures are ^{o}C and salinities are p.p.t.)

	Temperature				Salinity			
Mo.	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$
				Surface				
J			ND	ND			ND	ND
F			1	10.0			1	0.0
M			ND	ND			ND	ND
A			ND	ND			ND	ND
M			1	21.0			1	0.0
J			1	23.0			1	0.0
J			ND	ND			ND	ND
A			1	27.0			1	1.1
S			ND	ND			ND	ND
O			ND	ND			ND	ND
N			ND	ND			ND	ND
D			ND	ND			ND	ND
				Bottom				
J			ND	ND			ND	ND
F			ND	ND			ND	ND
M			ND	ND			ND	ND
A			ND	ND			ND	ND
M			ND	ND			ND	ND
J			ND	ND			ND	ND
J			ND	ND			ND	ND
A			ND	ND			ND	ND
S			ND	ND			ND	ND
O			ND	ND			ND	ND
N			ND	ND			ND	ND
D			ND	ND			ND	ND

Table 51. Newport River Station #1.

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

	Temperature				Salinity			
Mo.	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$
				Surface				
J			1	16.8			1	33.9
F			1	5.0			1	17.6
M			1	15.0			1	23.1
A			1	14.5			1	34.5
M			1	18.9			1	34.5
J			1	22.7			1	34.5
J			1	26.0			1	31.2
A			1	25.7			1	33.4
S			1	27.0			1	25.8
O			1	19.0			1	25.2
N			1	15.0			1	30.7
D			1	8.0			1	28.5
				Bottom				
J			1	15.1			1	33.9
F			1	6.0			1	21.5
M			1	15.3			1	25.6
A			1	14.5			1	35.6
M			1	19.0			1	35.6
J			1	23.0			1	34.5
J			1	25.5			1	32.2
A			1	26.0			1	33.9
S			1	26.7			1	29.0
O			1	18.7			1	27.9
N			1	15.0			1	30.8
D			1	9.0			1	29.6

Table 52. Newport River Station #2.

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

	Temperature				Salinity			
Mo.	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$
				Surface				
J			1	15.5			1	32.3
F			1	5.0			1	16.5
M			1	15.5			1	21.5
A			1	14.0			1	33.9
M			1	19.4			1	35.1
J			1	22.8			1	32.9
J			1	28.5			1	31.8
A			1	25.7			1	31.2
S			1	27.0			1	23.5
O			1	19.0			1	28.5
N			1	15.0			1	30.7
D			1	6.5			1	21.9
				Bottom				
J			1	15.5			1	32.3
F			1	6.0			1	19.3
M			1	15.7			1	24.2
A			1	14.5			1	34.5
M			1	19.0			1	35.1
J			1	22.4			1	33.9
J			1	25.0			1	31.8
A			1	26.0			1	32.9
S			1	26.0			1	26.3
O			1	19.0			1	28.5
N			1	14.0			1	31.8
D			1	6.5			1	23.0

Table 53. Newport River Station #3.

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

	Temperature				Salinity			
Mo.	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$
				Surface				
J			1	16.3			1	32.3
F			1	6.0			1	14.3
M			1	15.0			1	26.4
A			1	14.5			1	31.8
M			1	19.1			1	35.1
J			1	22.5			1	32.3
J			1	25.0			1	31.8
A			1	25.7			1	32.3
S			1	26.7			1	23.6
O			1	18.5			1	25.2
N			1	14.9			1	27.9
D			1	6.0			1	25.3
				Bottom				
J			1	15.6			1	32.3
F			1	6.0			1	13.2
M			1	15.3			1	31.4
A			1	14.5			1	32.3
M			1	18.9			1	33.9
J			1	22.5			1	32.9
J			1	25.0			1	31.2
A			1	26.2			1	32.9
S			1	26.0			1	26.3
O			1	18.6			1	26.8
N			1	14.3			1	30.1
D			1	7.0			1	25.8

Table 54. Newport River Station #4.

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

	Temperature				Salinity			
Mo.	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$
				Surface				
J			1	16.0			1	30.1
F			1	5.0			1	7.7
M			1	15.5			1	23.6
A			1	15.0			1	26.8
M			1	20.0			1	35.6
J			1	22.9			1	34.5
J			1	26.0			1	26.8
A			1	26.0			1	28.5
S			1	26.0			1	27.4
O			1	19.0			1	26.8
N			1	14.5			1	28.5
D			1	6.5			1	21.6
				Bottom				
J			1	15.7			1	30.7
F			1	7.0			1	19.3
M			1	15.5			1	24.8
A			1	14.5			1	26.8
M			1	19.9			1	36.2
J			1	23.5			1	33.4
J			1	25.5			1	29.6
A			1	26.5			1	30.7
S			1	26.0			1	28.5
O			1	19.5			1	27.4
N			1	15.0			1	29.6
D			1	6.5			1	21.9

Table 55. Newport River Station # 6.

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

	Temperature				Salinity			
Mo.	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$
				Surface				
J			1	16.4			1	28.5
F			1	5.5			1	6.6
M			1	16.5			1	15.9
A			1	15.0			1	28.5
M			1	20.6			1	33.9
J			1	23.4			1	35.6
J			1	26.0			1	23.0
A			1	26.7			1	29.6
S			1	26.5			1	22.5
O			1	19.3			1	19.7
N			1	12.8			1	18.6
D			1	7.0			1	17.5
				Bottom				
J			1	15.7			1	29.6
F			1	6.5			1	17.6
M			1	16.5			1	27.5
A			1	15.0			1	28.5
M			1	20.1			1	35.1
J			1	23.0			1	30.1
J			1	25.0			1	27.4
A			1	26.2			1	30.1
S			1	26.5			1	27.9
O			1	19.8			1	22.5
N			1	13.5			1	26.8
D			1	7.0			1	27.4

Table 56. Newport River Station # 7.

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

Mo.	Temperature Max.	Temperature Min.	Temperature No.	Temperature $\bar{x}$	Salinity Max.	Salinity Min.	Salinity No.	Salinity $\bar{x}$
				Surface				
J			1	16.5			1	29.0
F			1	5.0			1	7.2
M			1	15.5			1	31.9
A			1	14.8			1	25.2
M			1	20.3			1	32.9
J			1	23.0			1	34.5
J			1	27.0			1	23.0
A			1	26.0			1	31.8
S			1	26.5			1	30.1
O			1	20.5			1	28.5
N			1	13.8			1	27.9
D			1	6.5			1	23.0
				Bottom				
J			1	15.8			1	29.5
F			1	8.0			1	23.7
M			1	16.0			1	33.0
A			1	15.0			1	26.3
M			1	20.8			1	33.9
J			1	24.0			1	35.1
J			1	27.0			1	25.8
A			1	26.2			1	32.3
S			1	26.5			1	30.7
O			1	21.0			1	30.7
N			1	14.0			1	27.4
D			1	6.8			1	23.6

Table 57. Newport River Station # 8.

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

	Temperature				Salinity			
Mo.	Max.	Min.	No.	$\bar{x}$	Max.	Min,	No.	$\bar{x}$
				Surface				
J			1	15.9			1	31.2
F			1	5.0			1	7.7
M			1	16.0			1	22.0
A			1	14.5			1	30.1
M			1	19.9			1	35.6
J			1	22.9			1	32.9
J			1	26.0			1	24.1
A			1	26.0			1	30.1
S			1	26.5			1	25.2
O			1	19.0			1	25.8
N			1	14.8			1	28.5
D			1	6.5			1	24.1
				Bottom				
J			1	15.5			1	31.2
F			1	5.0			1	12.1
M			1	15.5			1	26.9
A			1	14.5			1	30.1
M			1	19.7			1	36.2
J			1	22.5			1	32.3
J			1	27.0			1	26.3
A			1	26.5			1	30.7
S			1	26.0			1	27.4
O			1	19.3			1	26.3
N			1	14.5			1	28.5
D			1	7.0			1	24.7

Table 58. Newport River Station # 10.

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

	Temperature				Salinity			
Mo.	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$
				Surface				
J			ND	ND			ND	ND
F			1	5.1			1	9.9
M			ND	ND			ND	ND
A			ND	ND			ND	ND
M			1	20.5			1	32.9
J			ND	ND			ND	ND
J			ND	ND			ND	ND
A			1	26.0			1	28.5
S			ND	ND			ND	ND
O			ND	ND			ND	ND
N			1	13.3			1	19.7
D			ND	ND			ND	ND
				Bottom				
J			ND	ND			ND	ND
F			1	5.5			1	11.0
M			ND	ND			ND	ND
A			ND	ND			ND	ND
M			1	19.8			1	33.4
J			ND	ND			ND	ND
J			ND	ND			ND	ND
A			1	25.5			1	29.6
S			ND	ND			ND	ND
O			ND	ND			ND	ND
N			1	13.1			1	21.9
D			ND	ND			ND	ND

Table 59. Newport River Station # 11.

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

	Temperature				Salinity			
Mo.	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$
				Surface				
J			ND	ND			ND	ND
F			1	5.5			1	8.3
M			ND	ND			ND	ND
A			ND	ND			ND	ND
M			1	20.5			1	33.9
J			ND	ND			ND	ND
J			ND	ND			ND	ND
A			1	26.0			1	27.4
S			ND	ND			ND	ND
O			ND	ND			ND	ND
N			1	13.8			1	21.4
D			ND	ND			ND	ND
				Bottom				
J			ND	ND			ND	ND
F			1	5.3			1	13.2
M			ND	ND			ND	ND
A			ND	ND			ND	ND
M			1	19.5			1	33.9
J			ND	ND			ND	ND
J			ND	ND			ND	ND
A			1	26.5			1	27.4
S			ND	ND			ND	ND
O			ND	ND			ND	ND
N			1	13.0			1	21.4
D			ND	ND			ND	ND

Table 60. Newport River Station #13.

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

	Temperature				Salinity			
Mo.	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$
				Surface				
J			ND	ND			ND	ND
F			1	4.9			1	7.2
M			ND	ND			ND	ND
A			ND	ND			ND	ND
M			1	20.0			1	31.8
J			ND	ND			ND	ND
J			ND	ND			ND	ND
A			1	26.0			1	27.4
S			ND	ND			ND	ND
O			ND	ND			ND	ND
N			1	12.5			1	20.3
D			ND	ND			ND	ND
				Bottom				
J			ND	ND			ND	ND
F			1	4.0			1	7.2
M			ND	ND			ND	ND
A			ND	ND			ND	ND
M			1	20.0			1	33.4
J			ND	ND			ND	ND
J			ND	ND			ND	ND
A			1	26.0			1	29.6
S			ND	ND			ND	ND
O			ND	ND			ND	ND
N			1	12.5			1	23.0
D			ND	ND			ND	ND

Table 61. Newport River Station # 14.

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

	Temperature				Salinity			
Mo.	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$
				Surface				
J			ND	ND			ND	ND
F			1	4.0			1	4.4
M			ND	ND			ND	ND
A			ND	ND			ND	ND
M			1	20.5			1	29.0
J			ND	ND			ND	ND
J			ND	ND			ND	ND
A			1	26.0			1	27.4
S			ND	ND			ND	ND
O			ND	ND			ND	ND
N			1	12.8			1	19.6
D			ND	ND			ND	ND
				Bottom				
J			ND	ND			ND	ND
F			1	4.2			1	4.9
M			ND	ND			ND	ND
A			ND	ND			ND	ND
M			1	20.0			1	29.6
J			ND	ND			ND	ND
J			ND	ND			ND	ND
A			1	26.0			1	27.4
S			ND	ND			ND	ND
O			ND	ND			ND	ND
N			1	12.4			1	19.6
D			ND	ND			ND	ND

Table 62. Newport River Station #15.

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

	Temperature				Salinity			
Mo.	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$
				Surface				
J			ND	ND			ND	ND
F			1	3.5			1	0.0
M			ND	ND			ND	ND
A			ND	ND			ND	ND
M			1	20.0			1	26.3
J			ND	ND			ND	ND
J			ND	ND			ND	ND
A			1	26.1			1	19.2
S			ND	ND			ND	ND
O			ND	ND			ND	ND
N			1	13.0			1	13.7
D			ND	ND			ND	ND
				Bottom				
J			ND	ND			ND	ND
F			1	3.5			1	0.0
M			ND	ND			ND	ND
A			ND	ND			ND	ND
M			1	20.3			1	26.8
J			ND	ND			ND	ND
J			ND	ND			ND	ND
A			1	26.0			1	23.0
S			ND	ND			ND	ND
O			ND	ND			ND	ND
N			1	12.5			1	13.7
D			ND	ND			ND	ND

Table 63. Bogue Inlet-Emerald Isle Bridge.

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

	Temperature				Salinity			
Mo.	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$
				Surface				
J			ND	ND			ND	ND
F	12.0	10.0	3	11.0	31.9	26.4	3	28.9
M			ND	ND			ND	ND
A			1	16.0			1	38.0
M			1	21.5			1	34.0
J	23.0	22.0	2	22.5	33.4	30.1	2	31.8
J			ND	ND			ND	ND
A	28.0	26.8	2	27.4	33.4	32.9	2	33.2
S			ND	ND			ND	ND
O	21.0	19.0	2	20.0	35.1	33.4	2	34.2
N			1	17.8			1	33.9
D			1	15.0			1	31.2
				Bottom				
J			ND	ND			ND	ND
F			1	12.0			1	30.0
M			ND	ND			ND	ND
A			1	16.0			1	35.0
M			ND	ND			ND	ND
J			ND	ND			ND	ND
J			ND	ND			ND	ND
A			1	26.0			1	34.0
S			ND	ND			ND	ND
O			1	21.0			1	35.6
N			1	18.0			1	33.9
D			ND	ND			ND	ND

Table 64. White Oak River East #44.

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

	Temperature				Salinity			
Mo.	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$
				Surface				
J			ND	ND			ND	ND
F			1	11.0			1	14.3
M			1	15.0			1	32.0
A			ND	ND			ND	ND
M			1	20.0			1	33.6
J			1	22.0			1	37.0
J			ND	ND			ND	ND
A			1	28.0			1	32.8
S			1	25.5			1	32.3
O			1	20.0			1	31.8
N			1	18.0			1	34.5
D			ND	ND			ND	ND
				Bottom				
J			ND	ND			ND	ND
F			ND	ND			ND	ND
M			1	15.5			1	32.0
A			ND	ND			ND	ND
M			1	20.0			1	34.1
J			1	21.8			1	38.0
J			ND	ND			ND	ND
A			ND	ND			ND	ND
S			ND	ND			ND	ND
O			ND	ND			ND	ND
N			ND	ND			ND	ND
D			ND	ND			ND	ND

Table 65. White Oak River bridge.

(Temperatures are ^{o}C and salinities are p.p.t.)

	Temperature				Salinity			
Mo.	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$
				Surface				
J			ND	ND			ND	ND
F			1	10.0			1	22.6
M			ND	ND			ND	ND
A			ND	ND			ND	ND
M			1	21.5			1	30.0
J	24.0	21.5	2	22.8	25.7	24.7	2	25.2
J			ND	ND			ND	ND
A			1	28.0			1	32.8
S			ND	ND			ND	ND
O			ND	ND			ND	ND
N			ND	ND			ND	ND
D			ND	ND			ND	ND
				Bottom				
J			ND	ND			ND	ND
F			ND	ND			ND	ND
M			ND	ND			ND	ND
A			ND	ND			ND	ND
M			ND	ND			ND	ND
J			ND	ND			ND	ND
J			ND	ND			ND	ND
A			ND	ND			ND	ND
S			ND	ND			ND	ND
O			ND	ND			ND	ND
N			ND	ND			ND	ND
D			ND	ND			ND	ND

Table 66. Bogue Inlet - Queens Creek.

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

	Temperature				Salinity			
Mo.	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$
				Surface				
J			ND	ND			ND	ND
F			1	12.0			1	19.2
M			1	15.5			1	24.0
A			ND	ND			ND	ND
M			1	20.0			1	28.1
J			1	22.5			1	34.5
J			ND	ND			ND	ND
A			1	26.5			1	28.5
S			1	25.0			1	25.8
O			1	19.0			1	33.9
N			1	15.4			1	32.8
D			1	15.0			1	26.3
				Bottom				
J			ND	ND			ND	ND
F			1	12.0			1	20.8
M			1	16.0			1	25.0
A			ND	ND			ND	ND
M			1	19.5			1	28.6
J			1	22.0			1	35.6
J			ND	ND			ND	ND
A			1	25.0			1	30.0
S			ND	ND			ND	ND
O			1	19.0			1	33.9
N			1	16.0			1	33.9
D			ND	ND			ND	ND

Table 67. Bogue Inlet - Saunders Creek #55.

(Temperatures are ^{o}C and salinities are p.p.t.)

	Temperature				Salinity			
Mo.	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$
				Surface				
J			ND	ND			ND	ND
F			1	12.0			1	23.0
M			1	15.5			1	27.0
A			1	16.5			1	35.0
M			1	20.5			1	30.3
J			1	23.0			1	35.6
J			1	22.0			1	20.8
A			1	27.2			1	30.7
S			1	25.0			1	29.6
O			1	20.0			1	36.2
N			1	16.4			1	37.0
D			1	15.0			1	27.4
				Bottom				
J			ND	ND			ND	ND
F			1	11.0			1	24.0
M			1	15.5			1	27.0
A			1	16.0			1	34.0
M			1	20.0			1	33.6
J			1	22.6			1	36.1
J			1	22.0			1	28.5
A			1	25.0			1	30.7
S			ND	ND			ND	ND
O			1	20.0			1	36.2
N			1	16.5			1	37.0
D			ND	ND			ND	ND

Table 68. New River Inlet #74.

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

Mo.	Temperature Max.	Temperature Min.	Temperature No.	Temperature $\bar{x}$	Salinity Max.	Salinity Min.	Salinity No.	Salinity $\bar{x}$
				Surface				
J			ND	ND			ND	ND
F			1	11.0			1	26.2
M			1	15.0			1	25.0
A			1	16.5			1	35.0
M			1	21.0			1	37.4
J			1	22.0			1	33.4
J			1	27.0			1	35.6
A			1	29.5			1	30.1
S			1	25.0			1	23.0
O			1	21.0			1	36.2
N			1	15.8			1	29.5
D			1	14.5			1	26.3
				Bottom				
J			ND	ND			ND	ND
F			1	11.0			1	27.0
M			1	15.0			1	28.0
A			1	16.0			1	34.0
M			1	21.0			1	35.8
J			1	22.0			1	35.0
J			1	21.5			1	34.0
A			1	29.5			1	34.0
S			ND	ND			ND	ND
O			1	21.0			1	36.2
N			1	16.0			1	29.5
D			ND	ND			ND	ND

Table 69. Old Topsail Sound #86.

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

	Temperature				Salinity			
Mo.	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$
				Surface				
J			ND	ND			ND	ND
F			1	10.0			1	27.5
M			1	15.0			1	32.0
A			1	18.5			1	34.0
M			1	21.5			1	33.0
J			1	24.9			1	34.8
J	25.0	23.0	2	24.0	35.1	34.5	2	34.8
A			1	29.5			1	38.4
S			1	26.0			1	32.3
O			1	18.0			1	35.1
N			1	18.2			1	33.4
D			1	14.5			1	26.2
				Bottom				
J			ND	ND			ND	ND
F			1	9.5			1	29.7
M			1	15.0			1	32.0
A			1	17.0			1	34.5
M			1	21.5			1	33.0
J			1	24.0			1	36.0
J	24.0	22.5	2	23.3	35.6	34.0	2	34.8
A			1	29.0			1	38.4
S			ND	ND			ND	ND
O			1	18.0			1	35.6
N			1	18.0			1	35.6
D			ND	ND			ND	ND

Table 70. Howard Channel - New Topsail Inlet.

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

Mo.	Temperature Max.	Temperature Min.	Temperature No.	Temperature $\bar{x}$	Salinity Max.	Salinity Min.	Salinity No.	Salinity $\bar{x}$
				Surface				
J			ND	ND			ND	ND
F			1	9.5			1	34.1
M			1	14.0			1	32.0
A			1	17.0			1	34.0
M			1	21.5			1	35.2
J			1	25.0			1	35.6
J			1	25.0			1	35.1
A			1	29.5			1	38.4
S			1	26.0			1	35.1
O			1	19.0			1	35.1
N			ND	ND			ND	ND
D			1	14.5			1	26.0
				Bottom				
J			ND	ND			ND	ND
F			1	9.5			1	35.2
M			1	14.0			1	34.0
A			1	16.8			1	35.0
M			1	22.0			1	35.8
J			1	24.0			1	35.6
J			1	24.0			1	35.6
A			1	29.5			1	37.8
S			ND	ND			ND	ND
O			1	18.0			1	35.1
N			ND	ND			ND	ND
D			ND	ND			ND	ND

Table 71. Green Channel.

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

Mo.	Temperature Max.	Min.	No.	$\bar{x}$	Salinity Max.	Min.	No.	$\bar{x}$
				Surface				
J			ND	ND			ND	ND
F			1	9.0			1	34.1
M			1	14.0			1	35.0
A			1	17.0			1	35.0
M			1	21.0			1	35.2
J			1	24.8			1	38.0
J			1	25.0			1	35.1
A			1	29.5			1	37.3
S			1	26.5			1	36.2
O			1	18.5			1	34.5
N			1	18.4			1	34.5
D			1	14.5			1	33.4
				Bottom				
J			ND	ND			ND	ND
F			1	9.0			1	34.1
M			1	14.0			1	35.0
A			1	16.0			1	36.0
M			1	21.5			1	35.8
J			1	24.0			1	38.0
J			1	25.0			1	35.6
A			1	29.0			1	36.2
S			ND	ND			ND	ND
O			1	18.0			1	34.5
N			1	19.0			1	35.6
D			ND	ND			ND	ND

Table 72. Pages Creek.

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

	Temperature				Salinity			
Mo.	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$
				Surface				
J			ND	ND			ND	ND
F	9.0	9.0	2	9.0	35.8	33.0	2	34.4
M			1	14.5			1	36.0
A			1	18.1			1	35.0
M			1	21.0			1	35.2
J			1	25.0			1	37.0
J			1	26.0			1	35.1
A			1	29.5			1	36.2
S			1	26.0			1	37.3
O			1	19.0			1	35.6
N			1	18.8			1	35.0
D			1	14.5			1	34.0
				Bottom				
J			ND	ND			ND	ND
F	9.0	9.0	2	9.0	34.1	34.1	2	34.1
M			1	14.5			1	37.0
A			1	17.5			1	35.5
M			1	21.0			1	36.9
J			1	23.0			1	38.0
J			1	26.0			1	35.1
A			1	29.0			1	36.2
S			ND	ND			ND	ND
O			1	18.0			1	34.5
N			1	19.0			1	35.0
D			ND	ND			ND	ND

Table 73. Mason Inlet - Howe Point.

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

	Temperature				Salinity			
Mo.	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$
				Surface				
J			ND	ND			ND	ND
F			1	9.0			1	34.1
M			1	15.0			1	35.0
A			1	18.0			1	35.0
M			1	21.0			1	35.2
J			1	24.6			1	37.0
J			1	20.0			1	35.6
A			1	29.5			1	37.3
S			1	26.5			1	37.8
O			1	19.0			1	34.5
N			1	18.8			1	34.5
D			1	14.5			1	33.4
				Bottom				
J			ND	ND			ND	ND
F			1	9.0			1	33.0
M			1	14.5			1	37.0
A			1	17.5			1	36.5
M			1	21.0			1	35.2
J			1	24.0			1	38.0
J			1	25.0			1	32.9
A			1	29.0			1	37.3
S			ND	ND			ND	ND
O			1	18.0			1	35.6
N			1	19.0			1	37.8
D			ND	ND			ND	ND

Table 74. Masonboro Inlet.

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

Mo.	Temperature Max.	Temperature Min.	Temperature No.	Temperature $\bar{x}$	Salinity Max.	Salinity Min.	Salinity No.	Salinity $\bar{x}$
				Surface				
J			ND	ND			ND	ND
F			1	9.0			1	33.0
M			1	14.0			1	36.0
A			1	18.0			1	35.0
M			1	21.0			1	35.2
J			1	24.3			1	33.4
J			1	25.0			1	35.0
A			1	29.5			1	36.2
S			1	25.5			1	36.7
O			1	20.5			1	35.1
N			1	18.6			1	35.0
D			1	14.5			1	21.9
				Bottom				
J			ND	ND			ND	ND
F			1	9.0			1	33.0
M			1	14.0			1	35.0
A			1	17.5			1	36.0
M			1	20.5			1	34.7
J			1	24.0			1	32.8
J			1	25.0			1	35.0
A			1	28.0			1	36.7
S			ND	ND			ND	ND
O			1	20.0			1	34.5
N			1	19.0			1	35.0
D			ND	ND			ND	ND

Table 75. Carolina Beach.

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

Mo.	Temperature Max.	Temperature Min.	Temperature No.	Temperature $\bar{x}$	Salinity Max.	Salinity Min.	Salinity No.	Salinity $\bar{x}$
				Surface				
J			ND	ND			ND	ND
F			1	9.0			1	31.9
M			1	15.5			1	26.0
A			1	17.6			1	30.0
M			1	20.5			1	15.4
J			1	24.6			1	19.0
J			1	25.0			1	19.2
A			1	29.5			1	36.2
S			1	25.0			1	25.8
O			1	20.5			1	33.9
N			1	18.2			1	23.0
D			1	12.0			1	4.4
				Bottom				
J			ND	ND			ND	ND
F			1	9.0			1	33.0
M			1	15.0			1	30.0
A			1	17.0			1	31.5
M			1	20.0			1	17.6
J			1	26.5			1	20.8
J			1	25.0			1	22.0
A			1	28.0			1	36.2
S			ND	ND			ND	ND
O			1	20.5			1	33.9
N			1	18.5			1	25.0
D			ND	ND			ND	ND

Table 76. Cape Fear #174 .

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

	Temperature				Salinity			
Mo.	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$
				Surface				
J			ND	ND			ND	ND
F			1	8.0			1	1.7
M			1	15.0			1	11.0
A			1	19.5			1	14.0
M			1	20.0			1	7.7
J			1	24.3			1	15.9
J			1	26.0			1	16.4
A			1	29.6			1	12.6
S			1	25.5			1	12.6
O			1	20.5			1	15.3
N			1	18.2			1	20.8
D			1	11.0			1	4.4
				Bottom				
J			ND	ND			ND	ND
F			1	9.0			1	23.1
M			1	15.0			1	13.6
A			1	18.0			1	27.0
M			1	20.0			1	8.8
J			1	24.0			1	16.0
J			1	25.0			1	17.5
A			1	29.0			1	15.3
S			ND	ND			ND	ND
O			1	20.5			1	16.4
N			1	18.0			1	21.9
D			ND	ND			ND	ND

Table 77. Cape Fear #18.

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

Mo.	Temperature Max.	Temperature Min.	Temperature No.	Temperature $\bar{x}$	Salinity Max.	Salinity Min.	Salinity No.	Salinity $\bar{x}$
				Surface				
J			ND	ND			ND	ND
F			1	8.0			1	5.5
M			1	14.5			1	20.0
A			1	19.0			1	18.0
M			1	20.0			1	16.5
J			1	24.3			1	25.7
J			1	25.0			1	24.6
A			1	29.6			1	25.2
S			1	25.0			1	28.5
O			1	20.5			1	20.8
N			1	18.2			1	31.0
D			1	11.0			1	8.8
				Bottom				
J			ND	ND			ND	ND
F			1	8.0			1	8.3
M			1	14.5			1	21.0
A			1	18.0			1	25.0
M			1	19.5			1	20.9
J			1	24.2			1	26.8
J			1	25.0			1	27.4
A			1	28.5			1	24.7
S			1	20.0			1	21.9
O			ND	ND			ND	ND
N			1	16.0			1	29.0
D			ND	ND			ND	ND

Table 78. Elizabeth River #11.

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

Mo.	Temperature Max.	Temperature Min.	Temperature No.	Temperature $\bar{x}$	Salinity Max.	Salinity Min.	Salinity No.	Salinity $\bar{x}$
				Surface				
J			ND	ND			ND	ND
F			1	8.0			1	9.9
M			1	14.5			1	20.0
A			1	19.0			1	25.0
M			1	21.0			1	20.4
J			1	23.5			1	30.7
J			1	25.5			1	26.3
A			1	29.6			1	23.5
S			1	24.0			1	24.7
O			1	20.5			1	28.5
N			1	18.4			1	31.0
D			1	12.0			1	13.7
				Bottom				
J			ND	ND			ND	ND
F			1	8.0			1	16.5
M			1	14.7			1	22.0
A			1	19.0			1	25.0
M			1	20.5			1	19.8
J			1	23.2			1	31.7
J			1	25.0			1	27.4
A			1	28.0			1	23.5
S			ND	ND			ND	ND
O			1	20.5			1	29.0
N			1	18.0			1	30.6
D			ND	ND			ND	ND

Table 79. Lockwoods Folly.

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

Mo.	Temperature Max.	Temperature Min.	Temperature No.	Temperature $\bar{x}$	Salinity Max.	Salinity Min.	Salinity No.	Salinity $\bar{x}$
				Surface				
J			ND	ND			ND	ND
F			1	8.0			1	27.5
M			ND	ND			1	32.0
A			1	18.0			1	34.0
M			1	21.5			1	34.1
J			1	23.7			1	34.5
J			1	26.0			1	35.0
A			1	29.5			1	34.0
S			1	25.0			1	36.2
O			1	21.0			1	36.2
N			1	18.5			1	35.0
D			1	13.5			1	24.6
				Bottom				
J			ND	ND			ND	ND
F			1	8.0			1	27.5
M			1	14.0			1	32.0
A			1	18.0			1	34.0
M			1	20.5			1	33.6
J			1	22.0			1	34.5
J			1	25.0			1	33.9
A			1	28.0			1	34.0
S			ND	ND			ND	ND
O			1	21.0			1	37.2
N			1	18.5			1	35.0
D			ND	ND			ND	ND

Table 80. Shallotte Inlet Marker 78N.

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

Mo.	Temperature Max.	Temperature Min.	Temperature No.	Temperature $\bar{x}$	Salinity Max.	Salinity Min.	Salinity No.	Salinity $\bar{x}$
				Surface				
J			ND	ND			ND	ND
F			1	7.5			1	23.1
M			1	14.0			1	32.0
A			1	17.5			1	32.0
M			1	22.0			1	33.0
J			1	24.1			1	33.0
J			1	25.0			1	35.1
A			1	29.0			1	35.6
S			1	25.0			1	34.5
O			1	21.0			1	36.7
N			1	18.2			1	34.5
D			1	14.0			1	28.5
				Bottom				
J			ND	ND			ND	ND
F			1	8.0			1	26.4
M			1	14.0			1	32.0
A			1	17.2			1	33.5
M			1	21.0			1	34.1
J			1	23.0			1	33.9
J			1	25.0			1	35.1
A			1	28.0			1	35.0
S			ND	ND			ND	ND
O			1	20.0			1	36.7
N			1	18.0			1	35.0
D			ND	ND			ND	ND

Table 81. Tubbs Inlet.

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

	Temperature				Salinity			
Mo.	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$
				Surface				
J			ND	ND			ND	ND
F			1	9.0			1	20.4
M			1	14.0			1	30.0
A			1	20.0			1	28.0
M			1	22.0			1	25.9
J			1	24.0			1	25.7
J			1	25.0			1	32.9
A			1	28.0			1	33.4
S			1	23.0			1	34.5
O			1	20.5			1	35.1
N			1	18.0			1	34.5
D			1	12.0			1	16.4
				Bottom				
J			ND	ND			ND	ND
F			1	9.0			1	26.4
M			1	14.0			1	31.0
A			1	19.0			1	31.0
M			1	22.0			1	35.8
J			1	21.5			1	32.0
J			1	24.0			1	32.9
A			1	28.0			1	34.0
S			ND	ND			ND	ND
O			1	20.5			1	34.5
N			ND	ND			1	34.5
D			ND	ND			ND	ND

Table 82. Little River Inlet.

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

	Temperature				Salinity			
Mo.	Max.	Min.	No.	$\bar{x}$	Max.	Min.	No.	$\bar{x}$
				Surface				
J			ND	ND			ND	ND
F	8.0	8.0	2	8.0	15.9	16.5	2	16.2
M			1	13.0			1	28.0
A			1	19.0			1	20.0
M			1	22.0			1	22.6
J			1	23.3			1	23.0
J			1	25.0			1	24.0
A			1	29.0			1	30.1
S			1	23.0			1	32.9
O			1	21.0			1	27.4
N			1	17.4			1	29.5
D			1	11.0			1	14.7
				Bottom				
J			ND	ND			ND	ND
F	8.0	8.0	2	8.0	20.9	22.6	2	21.7
M			1	14.0			1	28.0
A			1	20.0			1	25.0
M			1	22.0			1	24.8
J			1	22.0			1	24.0
J			1	23.0			1	20.8
A			1	28.0			1	33.4
S			1	23.0			1	32.9
O			1	20.5			1	32.0
N			1	18.0			1	33.9
D			ND	ND			ND	ND

Table 83. Precise longitude and latitude designations for the 84 permanent sampling stations.

	Station	Latitude	Longitude
1.	Albemarle Sound East	35° 59' N	75° 50' W
2.	Albemarle Sound North	36° 06' N	75° 55' W
3.	Albemarle Sound Northwest	36° 05' N	76° 03' W
4.	Albemarle Sound West	36° 02' N	76° 07' W
5.	Albemarle Sound South	36° 01' N	75° 58' W
6.	Alligator River Entrance	35° 59' N	75° 59' W
7.	Alligator River 8	35° 56' N	76° 00' W
8.	Alligator River 20	35° 50' N	76° 02' W
9.	Alligator River 28	35° 44' N	76° 01' W
10.	Croatan Sound North	35° 58' N	75° 45' W
11.	Croatan Sound	35° 54' N	75° 43' W
12.	Croatan Sound South	35° 49' N	75° 42' W
13.	Oregon Inlet	35° 45' N	75° 36' W
14.	Stumpy Point East	35° 42' N	75° 38' W
15.	Stumpy Point Entrance	35° 40' N	75° 45' W
16.	Northeast of Long Shoal	35° 35' N	75° 36' W
17.	Northwest of Clam Shoal	35° 23' N	75° 42' W
18.	Hatteras Inlet-Shark Shoal	35° 17' N	75° 44' W
19.	Hatteras Inlet	35° 14' N	75° 46' W
20.	Southeast of Gull Shoal	35° 23' N	75° 53' W
21.	Wysocking Bay	35° 25' N	76° 03' W
22.	South of Long Shoal	35° 26' N	75° 40' W
23.	Big Foot Slough Channel	35° 09' N	76° 01' W
24.	Teach's Hole Channel	35° 07' N	76° 00' W
25.	Royal Shoal	35° 09' N	76° 10' W
26.	Bluff Shoal	35° 13' N	76° 04' W
27.	Brant Island Shoal East	35° 08' N	76° 13' W

Station	Latitude	Longitude
28. Brant Island Shoal	35° 08' N	76° 18' W
29. Brant Island Shoal West	35° 08' N	76° 24' W
30. Rose Bay	35° 23' N	76° 26' W
30a. Ranger Point	35° 25' N	76° 25' W
30b. Swan Point	35° 25' N	76° 25' W
31. Swanquarter Narrows	35° 20' N	76° 18' W
31a. Swanquarter Harbor	35° 23' N	76° 21' W
31b. Swanquarter Bay	35° 21' N	76° 20' W
32. Pungo River 3	35° 31' N	76° 36' W
33. Pungo River-Able Bay	35° 23' N	76° 34' W
34. Pamlico Point	35° 19' N	76° 27' W
35. Oyster Creek	35° 19' N	76° 31' W
36. Goose Creek	35° 20' N	76° 36' W
37. Jones Bay-Maiden Point	35° 14' N	76° 34' W
38. Bay River-Bay Point	35° 10' N	76° 30' W
38a. Bay River-Bonner Bay	35° 10' N	76° 36' W
38b. Bay River-upstream station	35° 10' N	76° 39' W
39. Neuse River Entrance Light	35° 07' N	76° 29' W
40. Gum Thicket Shoal	35° 04' N	76° 34' W
41. West Bay	34° 59' N	76° 24' W
42. Turnagain Bay	35° 00' N	76° 30' W
43. Garbacon Shoal	35° 01' N	76° 40' W
44. Neuse River Bridge	35° 08' N	77° 02' W
44a. Trent River Bridge	35° 05' N	77° 03' W
45. North River-Middle Marsh	34° 47' N	76° 36' W
46. Drum Inlet	34° 53' N	76° 17' W
47. Marshallburg	34° 43' N	76° 29' W

	Station	Latitude	Longitude
48.	Barden Inlet	34° 37' N	76° 33' W
49.	Beaufort Inlet	34° 40' N	76° 40' W
50-61.	Newport River 12 stations	34° 45' N	76° 42' W
62.	Newport River Station 15	34° 45' N	76° 46' W
63.	Bogue Inlet-Emerald Isle Bridge	34° 41' N	77° 03' W
64.	White Oak River East	34° 40' N	77° 05' W
65.	White Oak River Bridge	34° 41' N	77° 07' W
65a.	White Oak River	34° 43' N	77° 07' W
66.	Queens Creek	34° 40' N	77° 09' W
67.	Saunders Creek #55	34° 38' N	77° 11' W
68.	New River Inlet #74	34° 33' N	77° 22' W
68a.	New River Inlet Dredge Station	34° 30' N	77° 25' W
69.	Old Topsail Sound #86	34° 20' N	77° 41' W
69a.	Old Topsail Sound Dredge Station	34° 21' N	77° 39' W
69b.	Old Topsail Sound Dredge Station	34° 22' N	77° 37' W
70.	Howard Channel-New Topsail Inlet	34° 18' N	77° 44' W
70a.	Howard Channel-New Topsail Inlet Dredge Station	34° 19' N	77° 44' W
71.	Green Channel	34° 16' N	77° 44' W
72.	Pages Creek	34° 19' N	77° 43' W
73.	Mason Inlet-Howe Point	34° 15' N	77° 45' W
74.	Masonboro Inlet	34° 11' N	77° 49' W
75.	Carolina Beach	34° 05' N	77° 53' W
76.	Cape Fear #174	34° 01' N	77° 57' W
77.	Cape Fear #18	33° 56' N	77° 59' W
78.	Elizabeth River #11	33° 55' N	78° 05' W
79.	Lockwoods Folly	33° 55' N	78° 15' W
79a.	Lockwoods Folly East Dredge Station	33° 55' N	78° 13' W

Station	Latitude	Longitude
80. Shallotte Inlet 78 N	33° 55' N	78° 23' W
80a. Shallotte Inlet-Saucepan Creek	33° 54' N	78° 25' W
80b. Shallotte Inlet East	33° 54' N	78° 22' W
81. Tubbs Inlet	33° 53' N	78° 29' W
82. Little River Inlet	33° 52' N	78° 32' W
82a. Little River Inlet Dredge Station	33° 51' N	78° 33' W

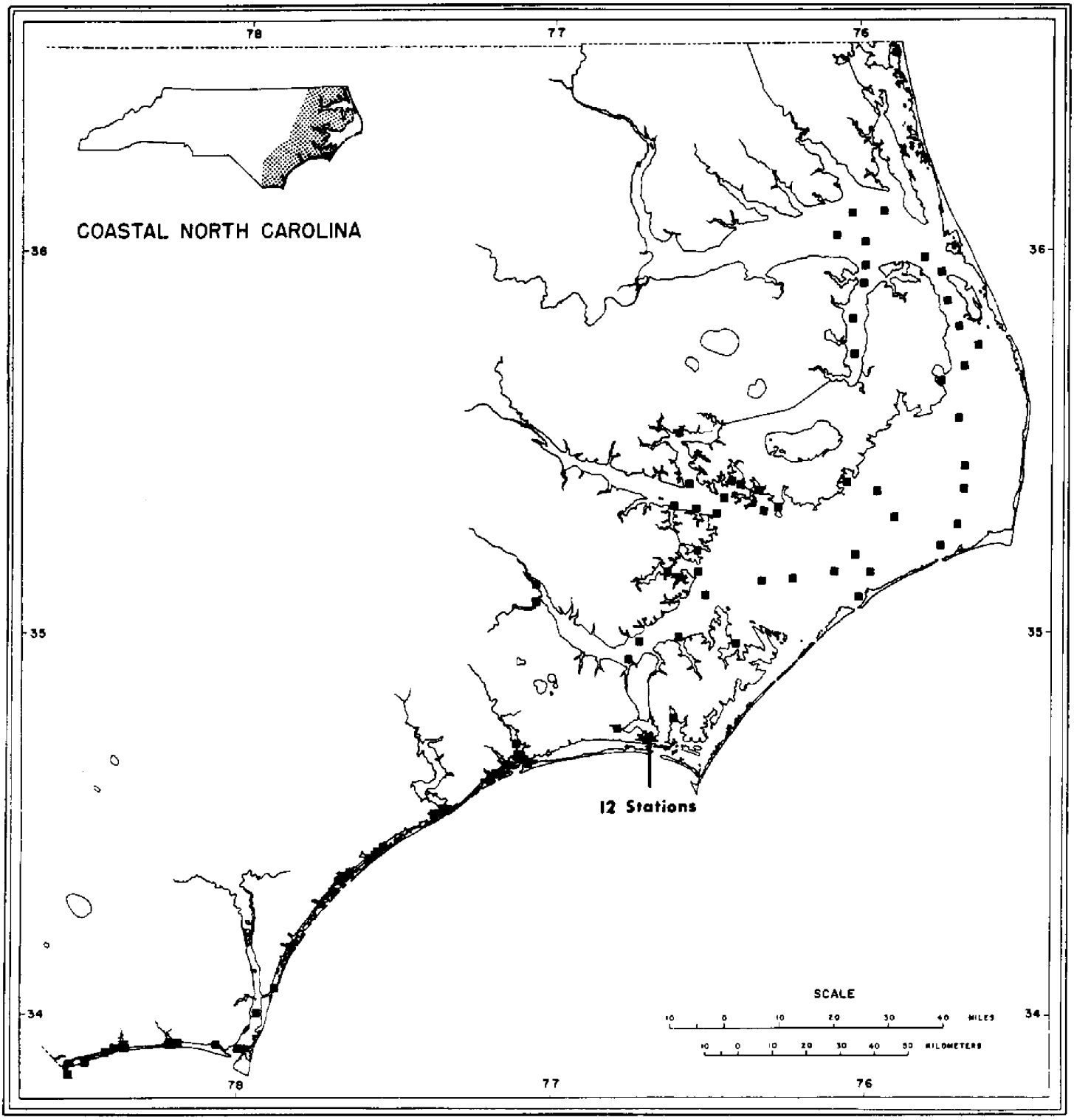

Figure 1. Map of coastal North Carolina designating each of the 84 sampling stations.

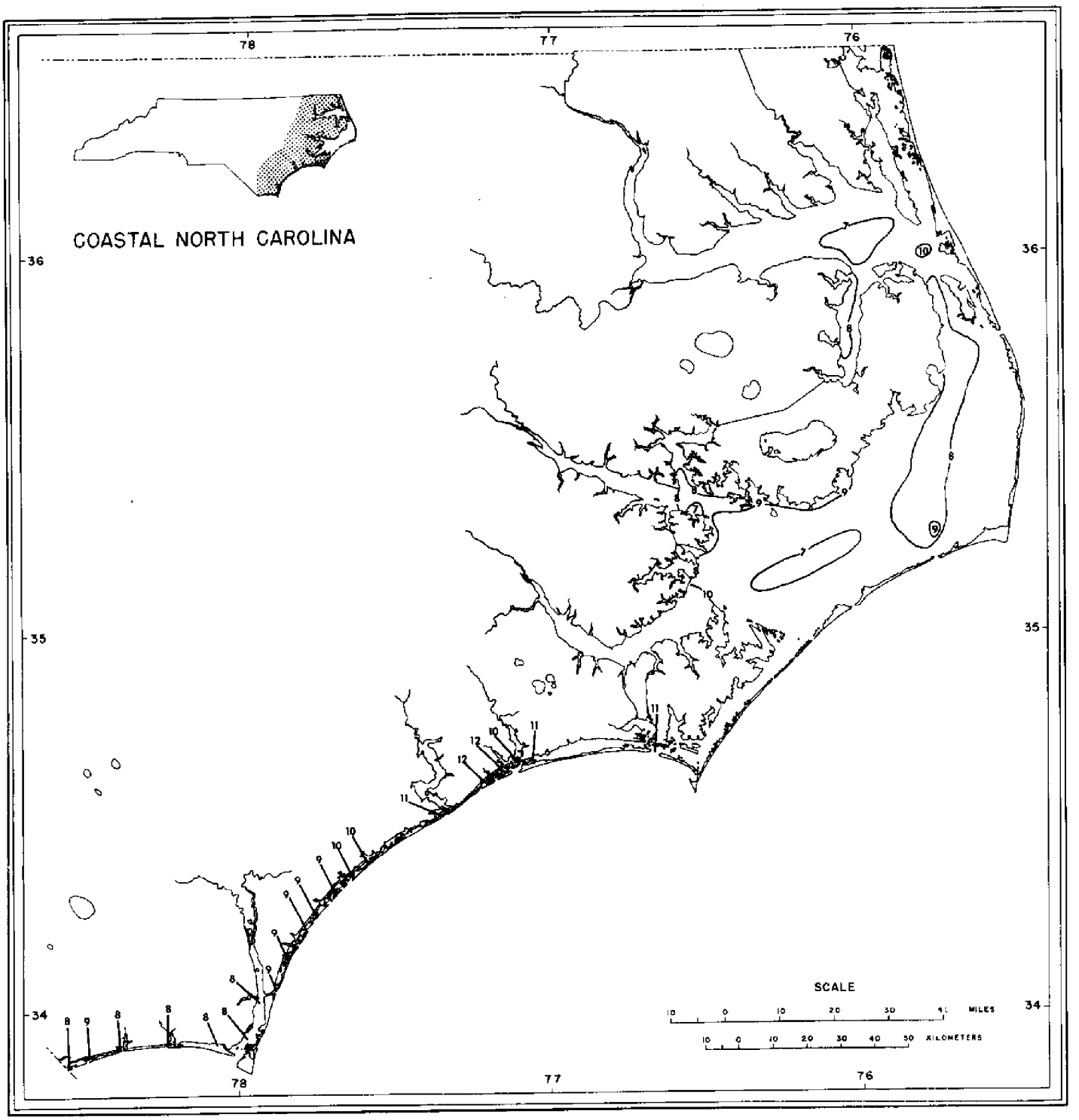

Figure 2. Surface isotherms in °C., February.

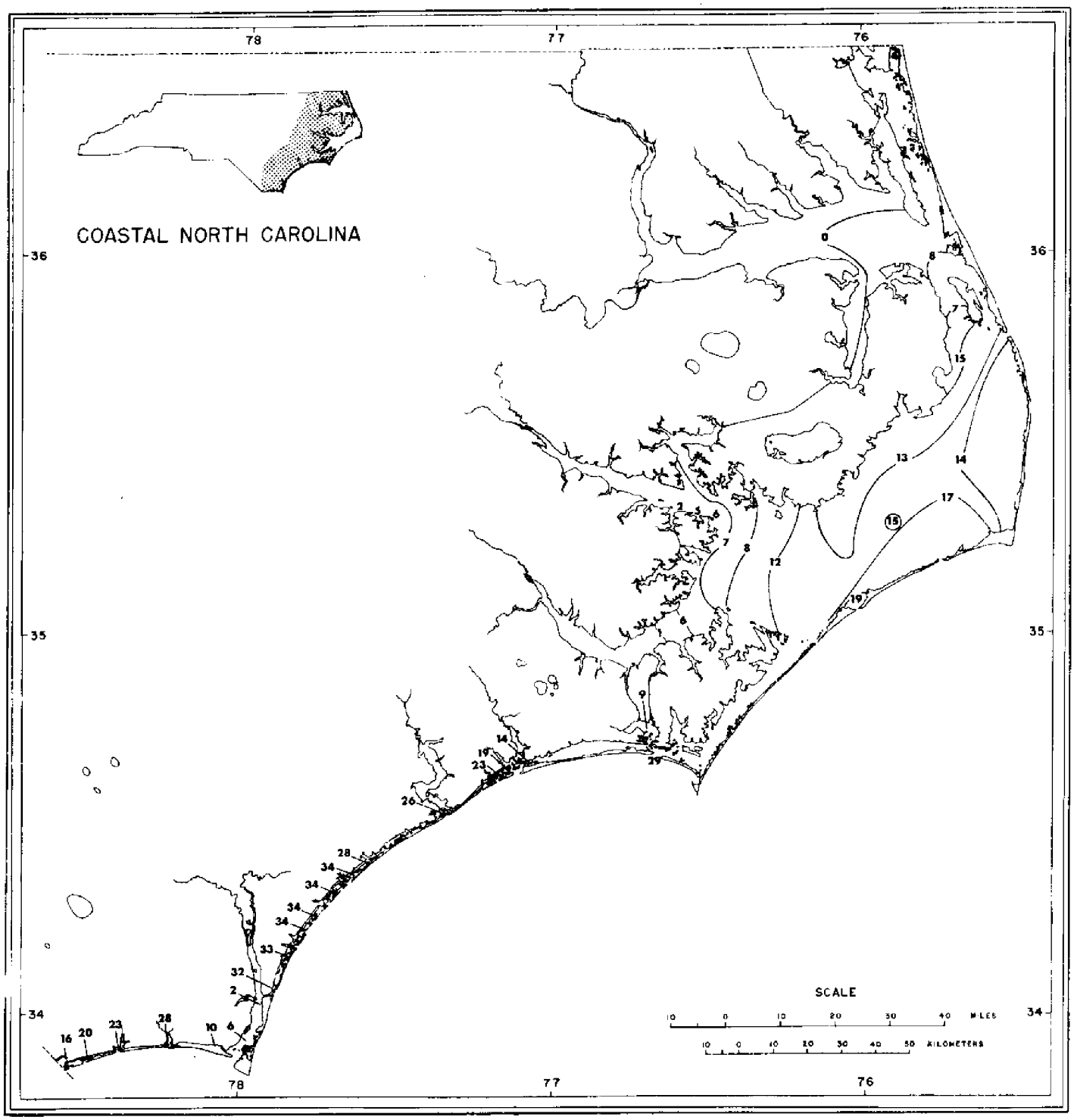

Figure 5. Surface isohalines in p.p.t., February.

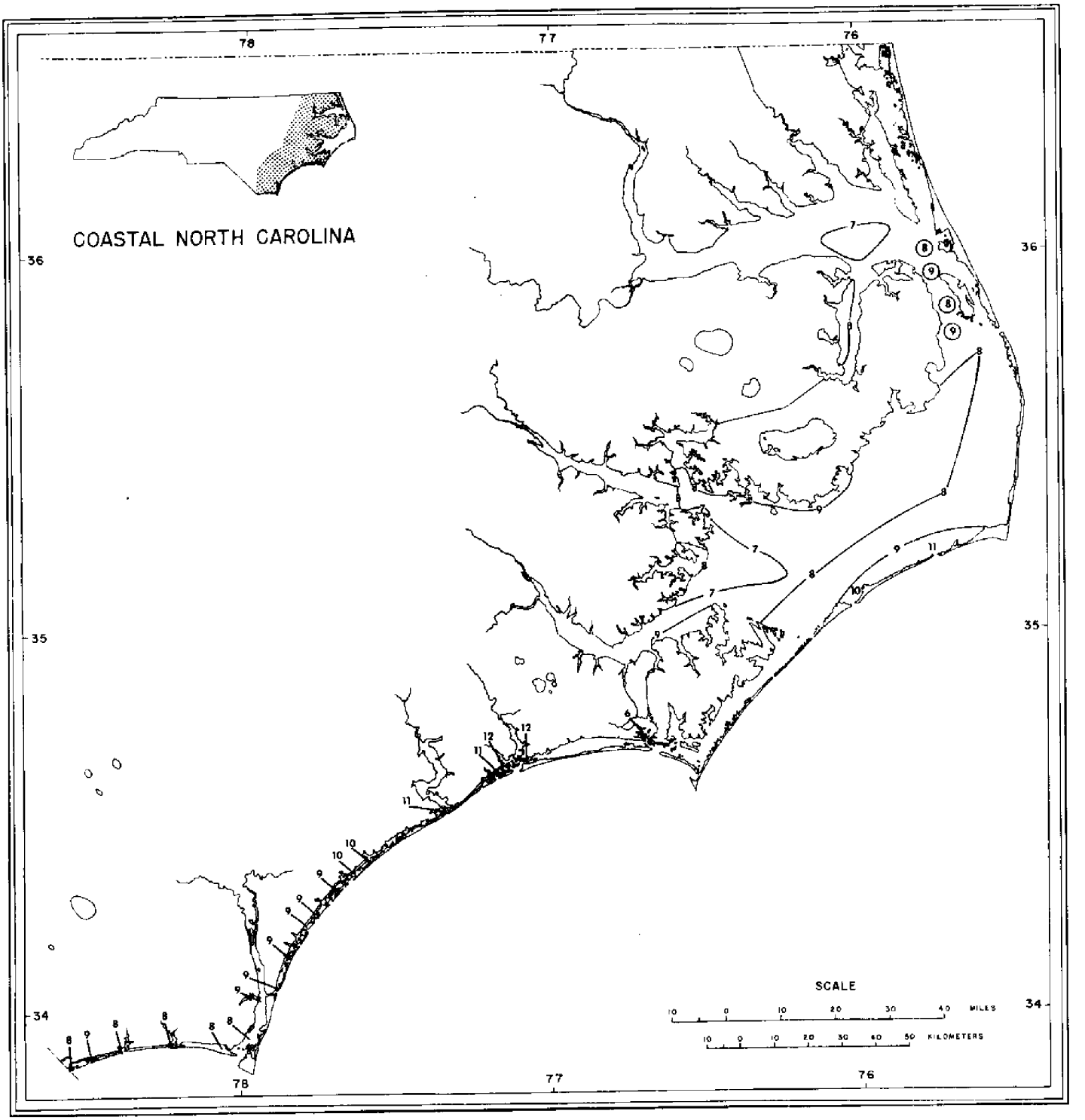

Figure 4. Bottom isotherms in °C., February.

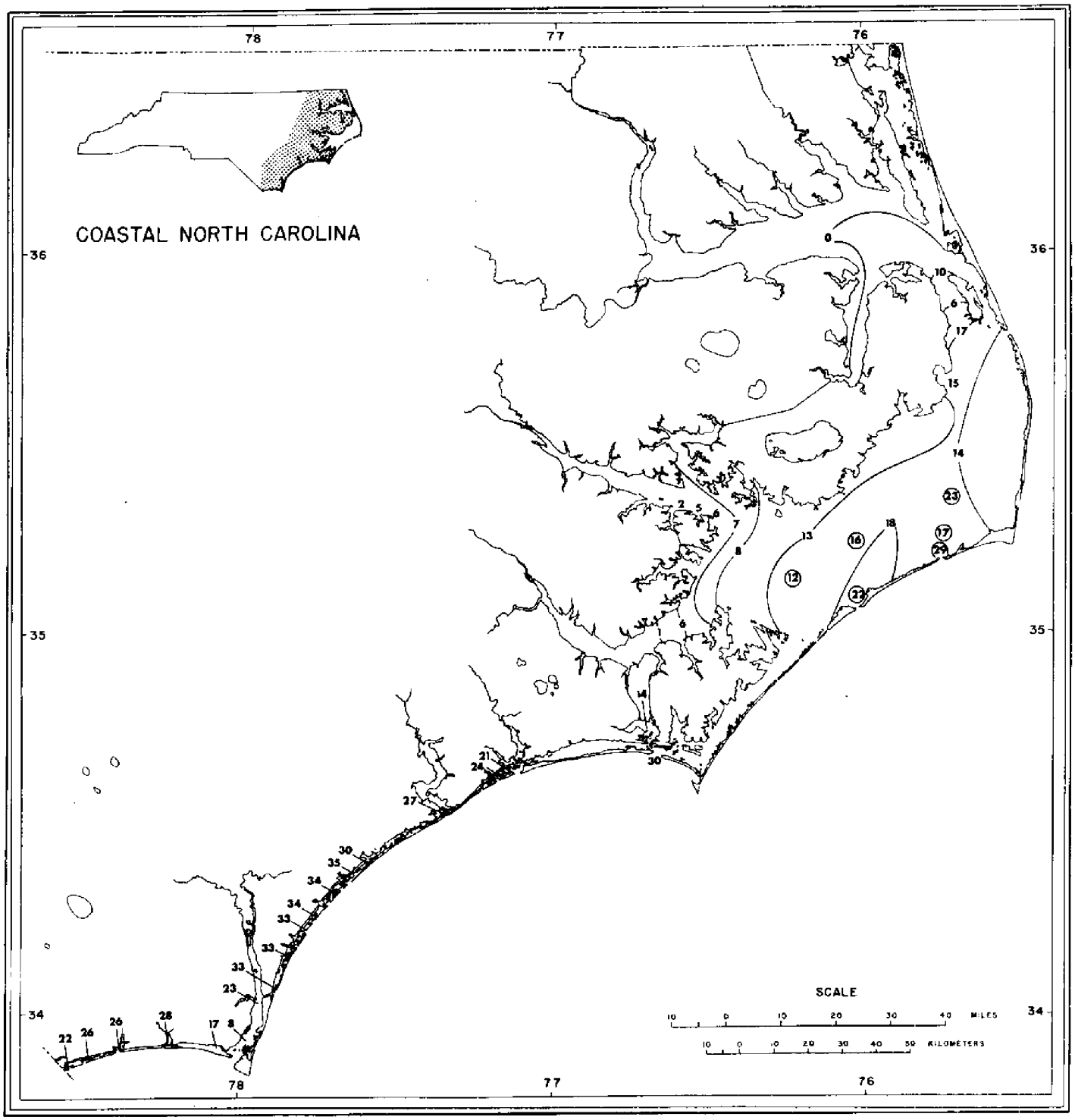

Figure 5. Bottom isohalines in p.p.t., February.

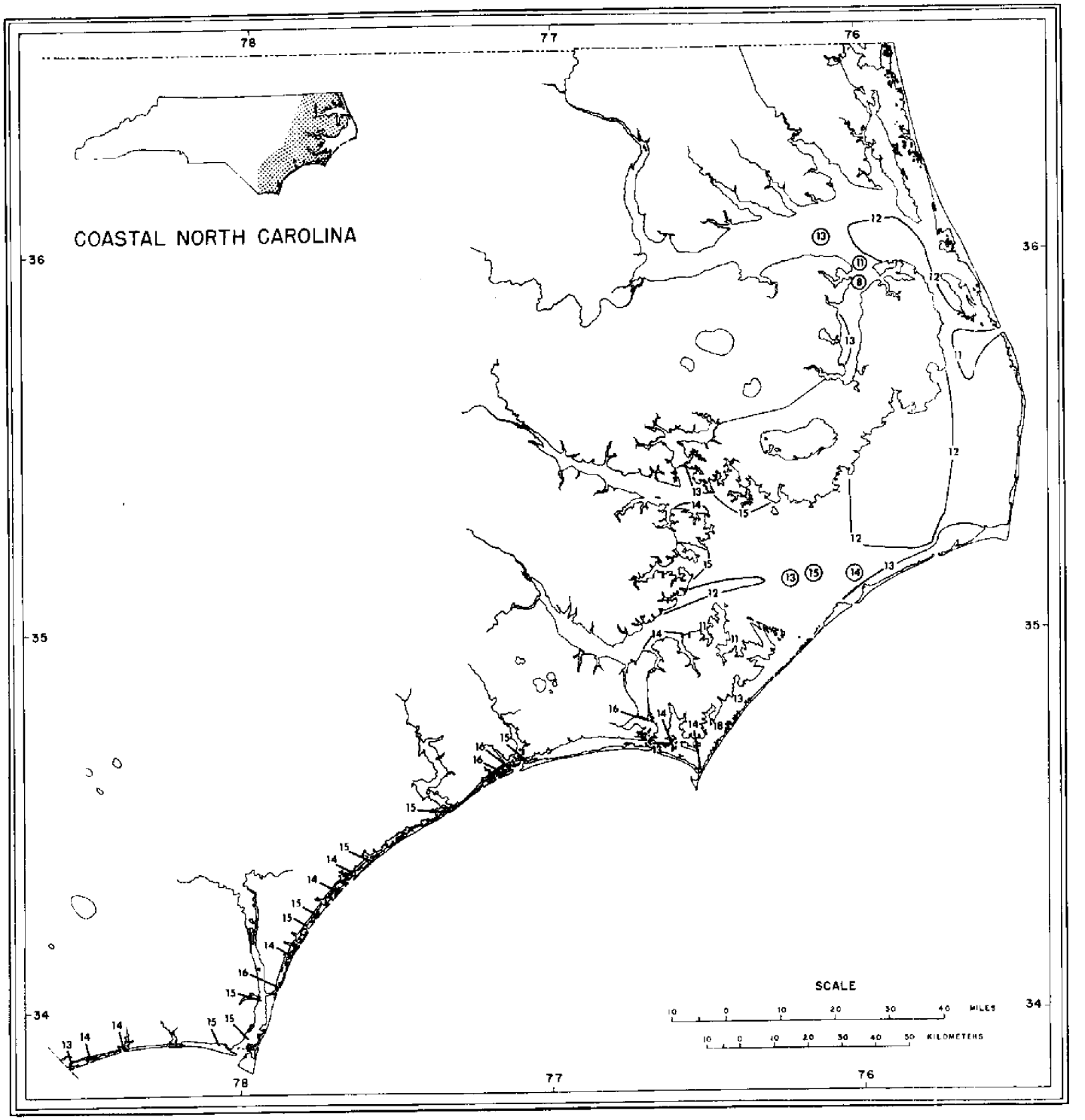

Figure 6. Surface isotherms in °C., March.

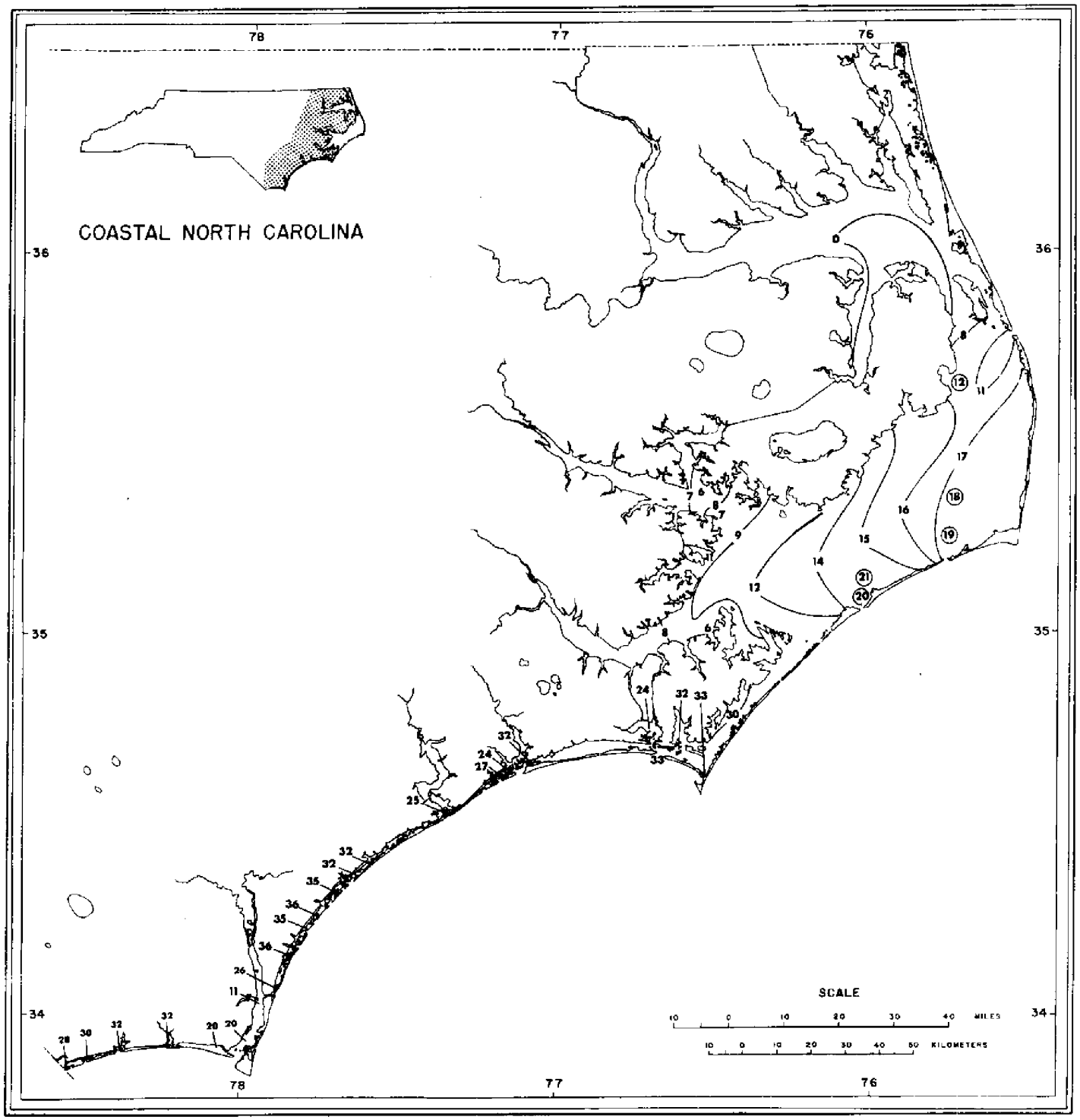

Figure 7. Surface isohalines in p.p.t., March.

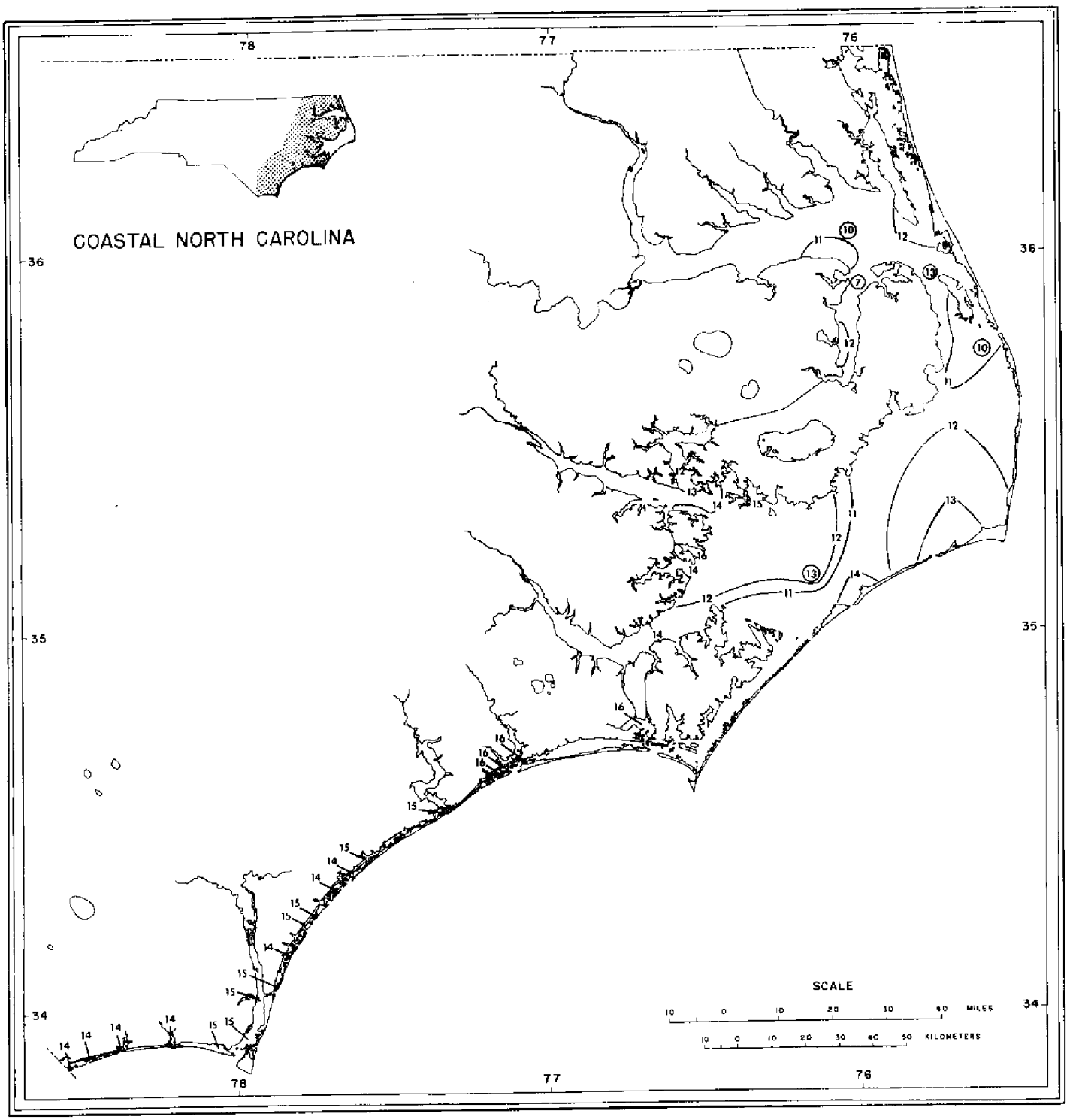

Figure 8. Bottom isotherms in °C., March.

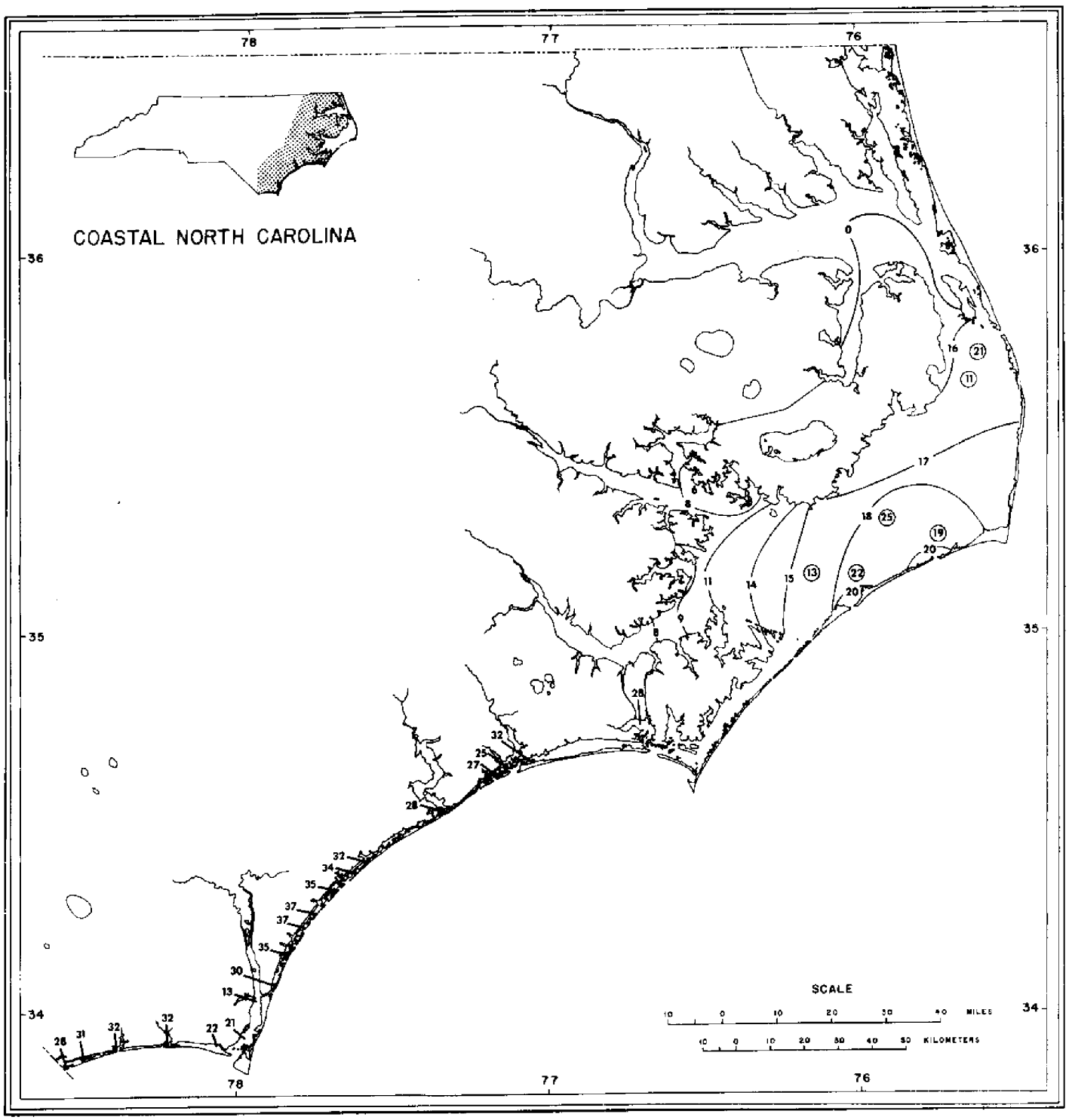

Figure 9. Bottom isohalines in p.p.t., March.

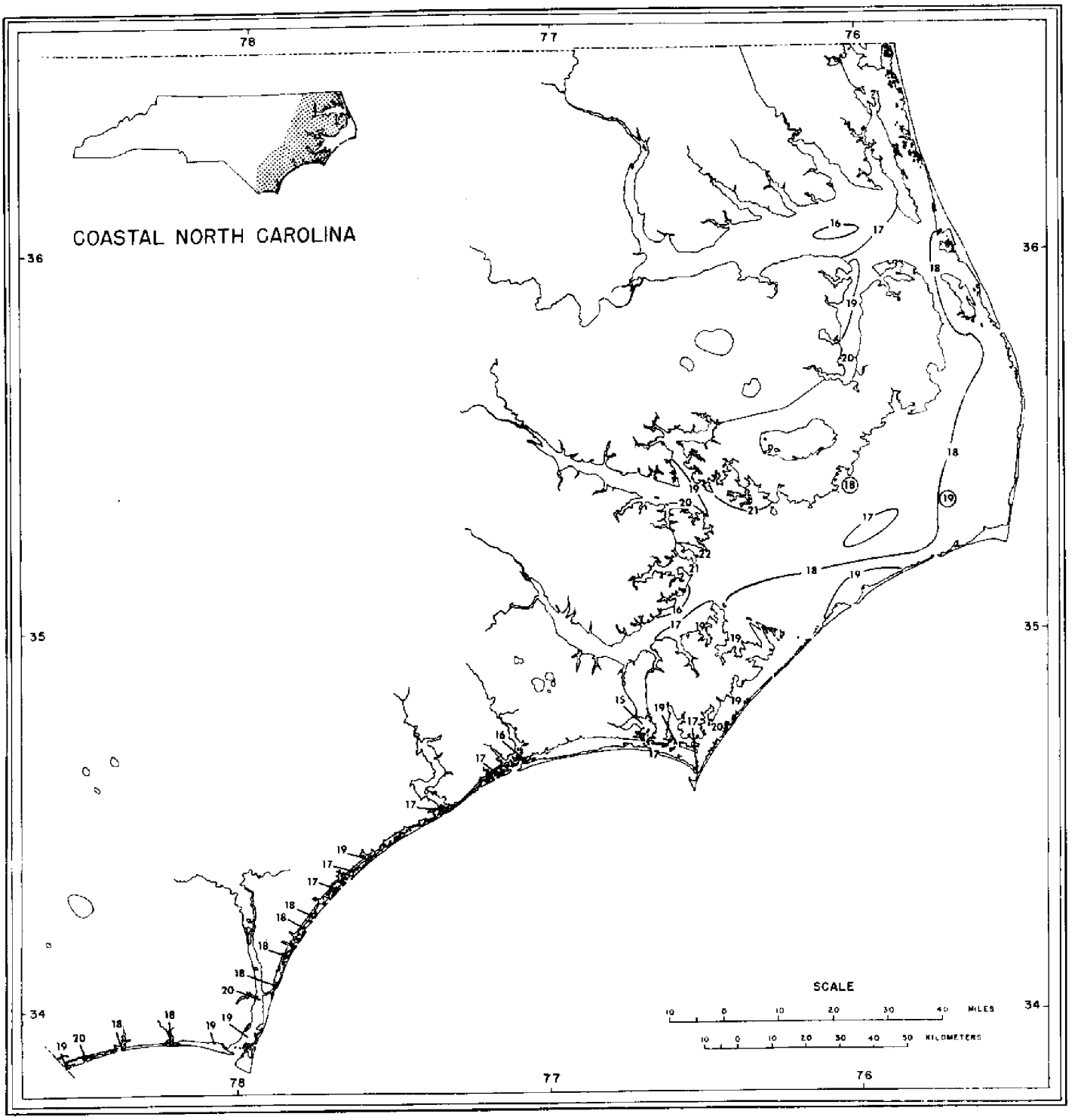

Figure 10. Surface isotherms in °C., April.

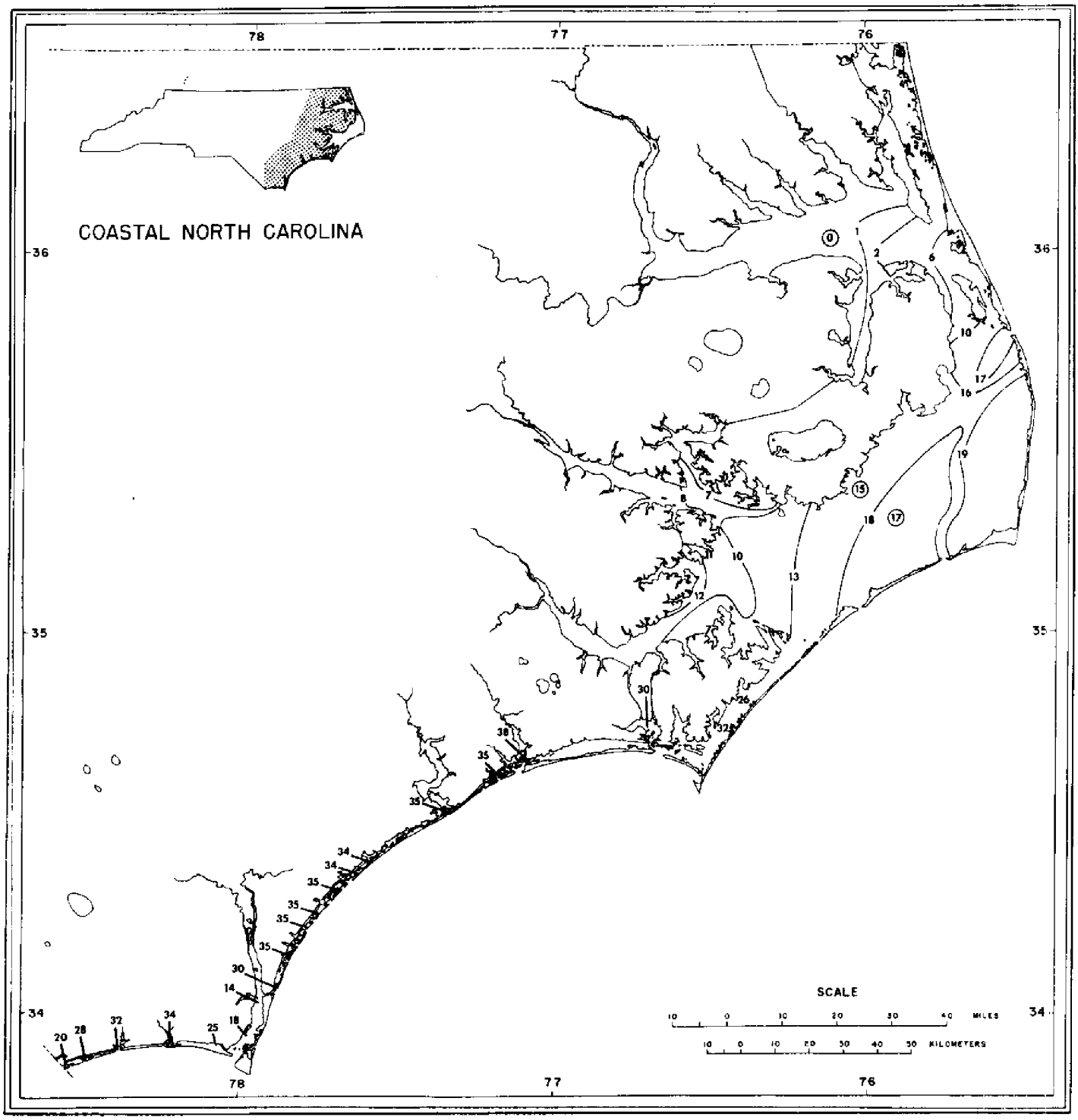

Figure 11. Surface isohalines in p.p.t., April.

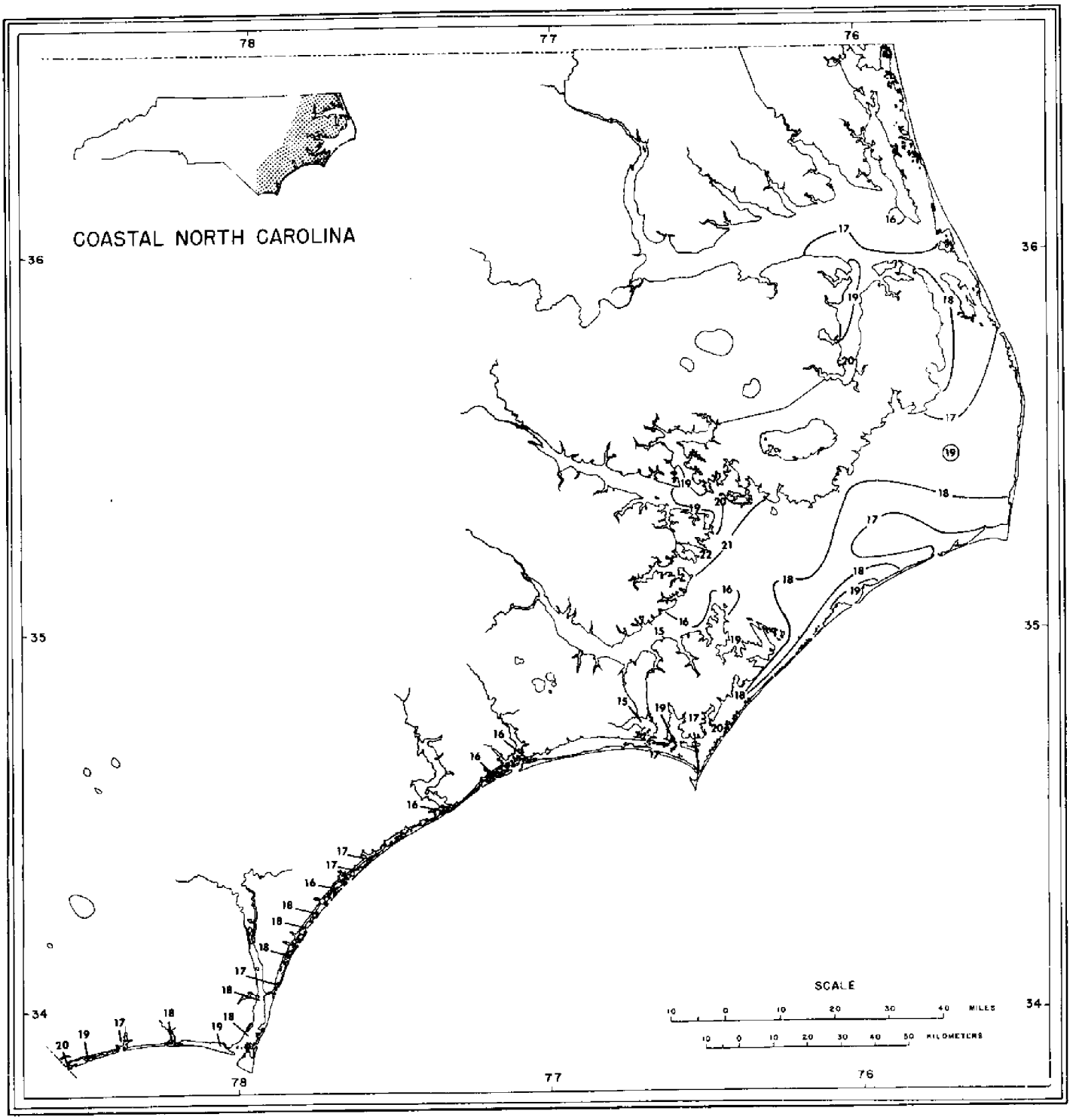

Figure 12. Bottom isotherms in °C., April.

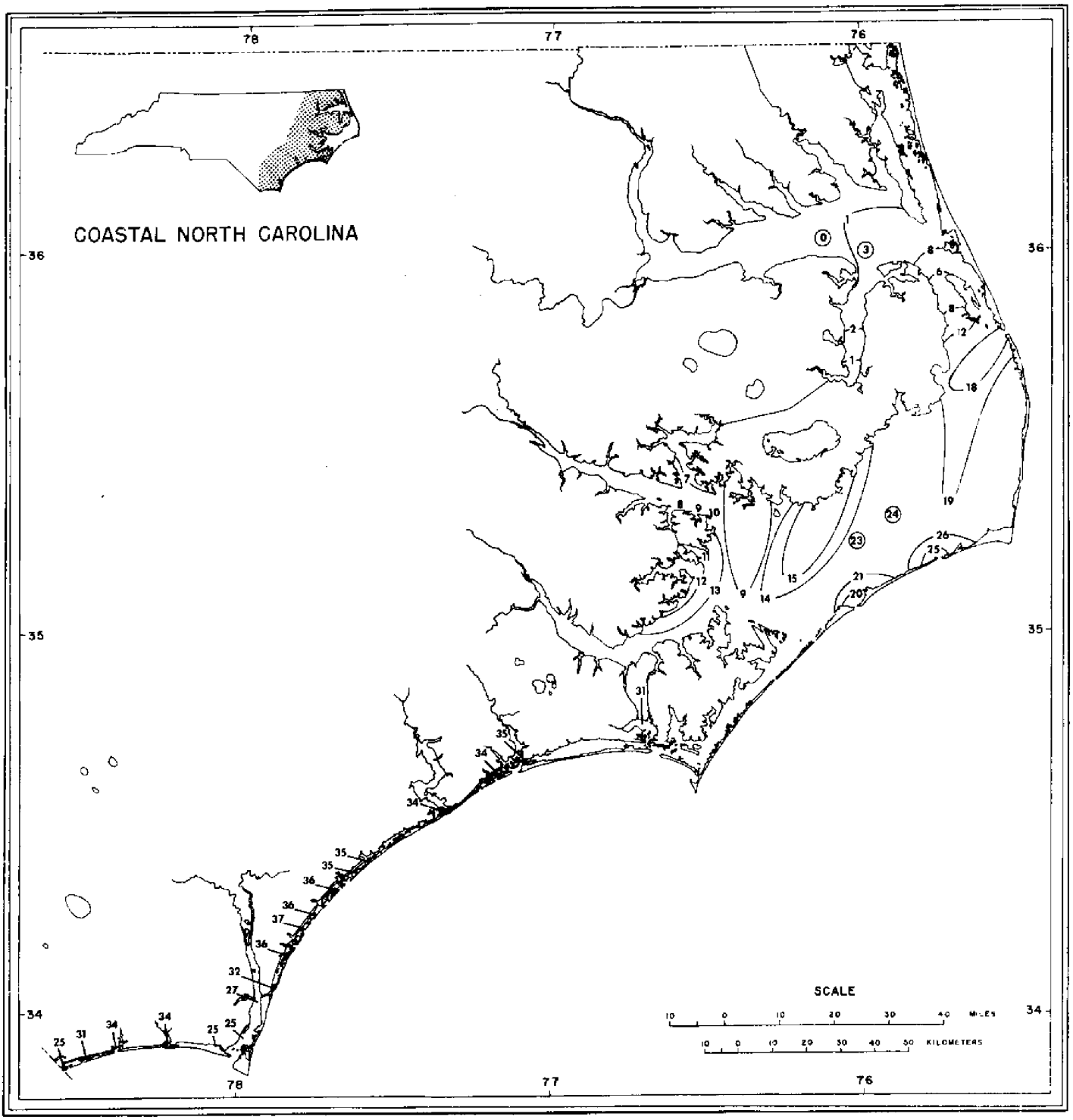

Figure 13. Bottom isohalines in p.p.t., April.

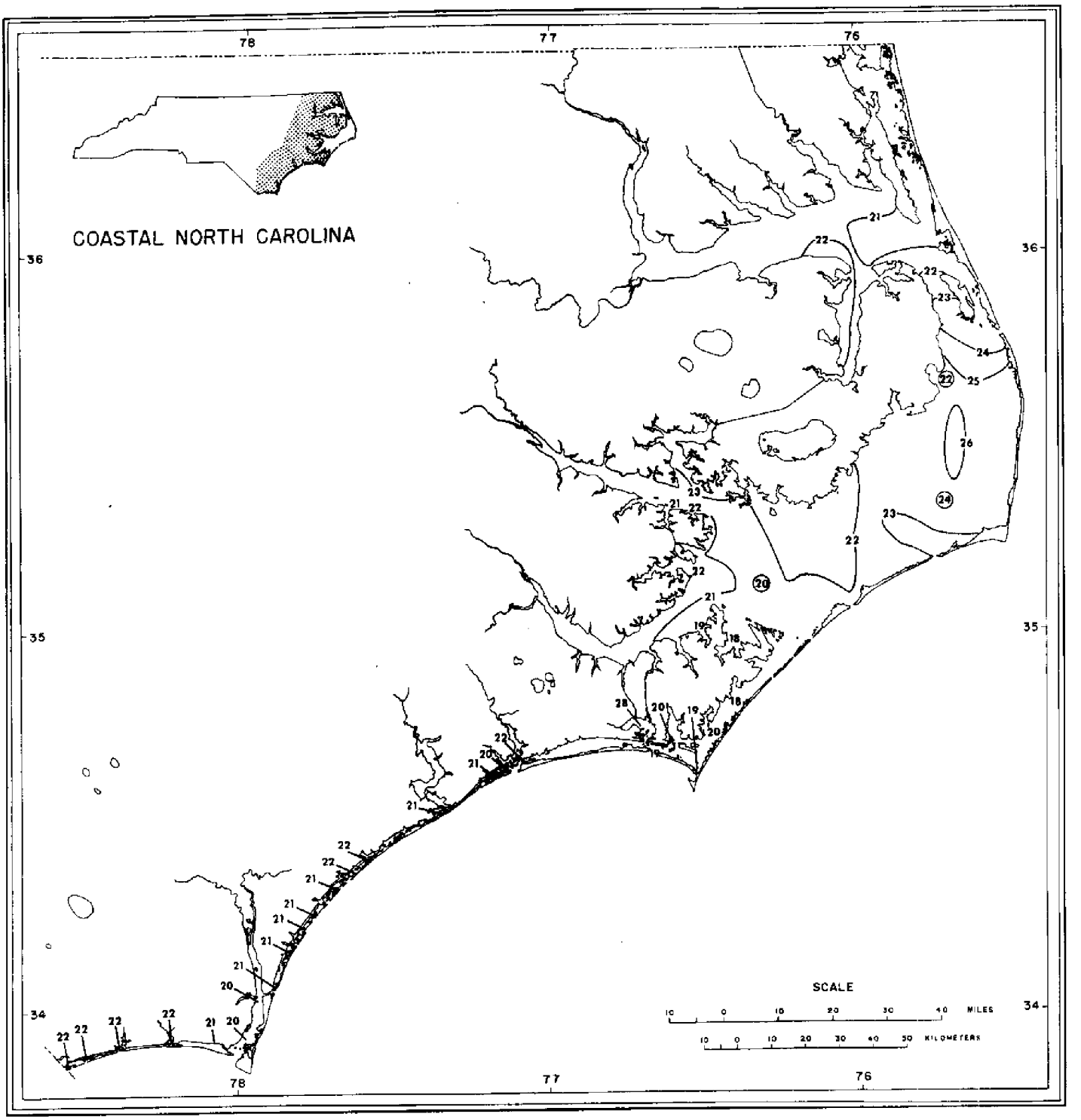

Figure 14. Surface isotherms in °C., May.

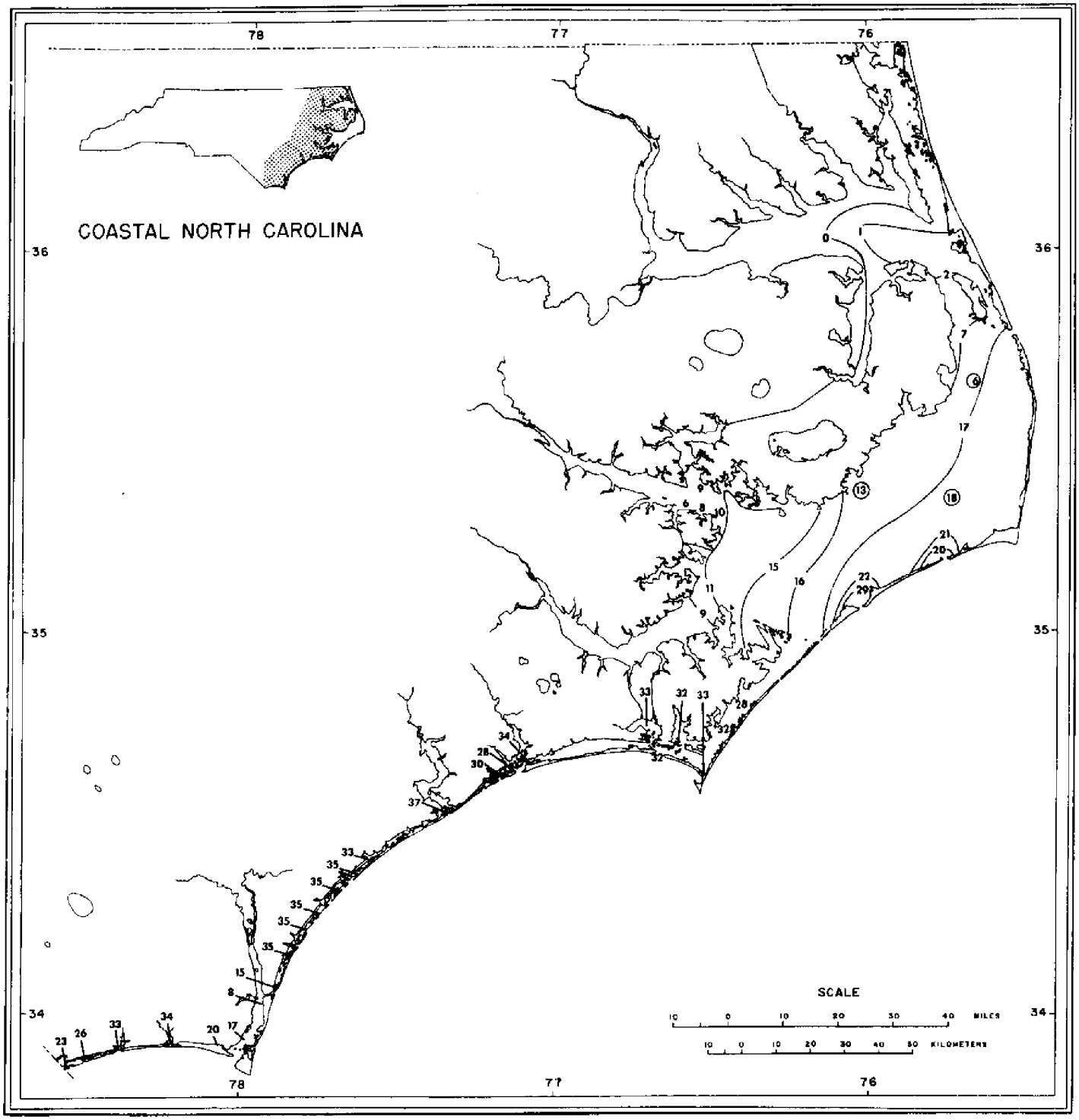

Figure 15. Surface isohalines in p.p.t., May.

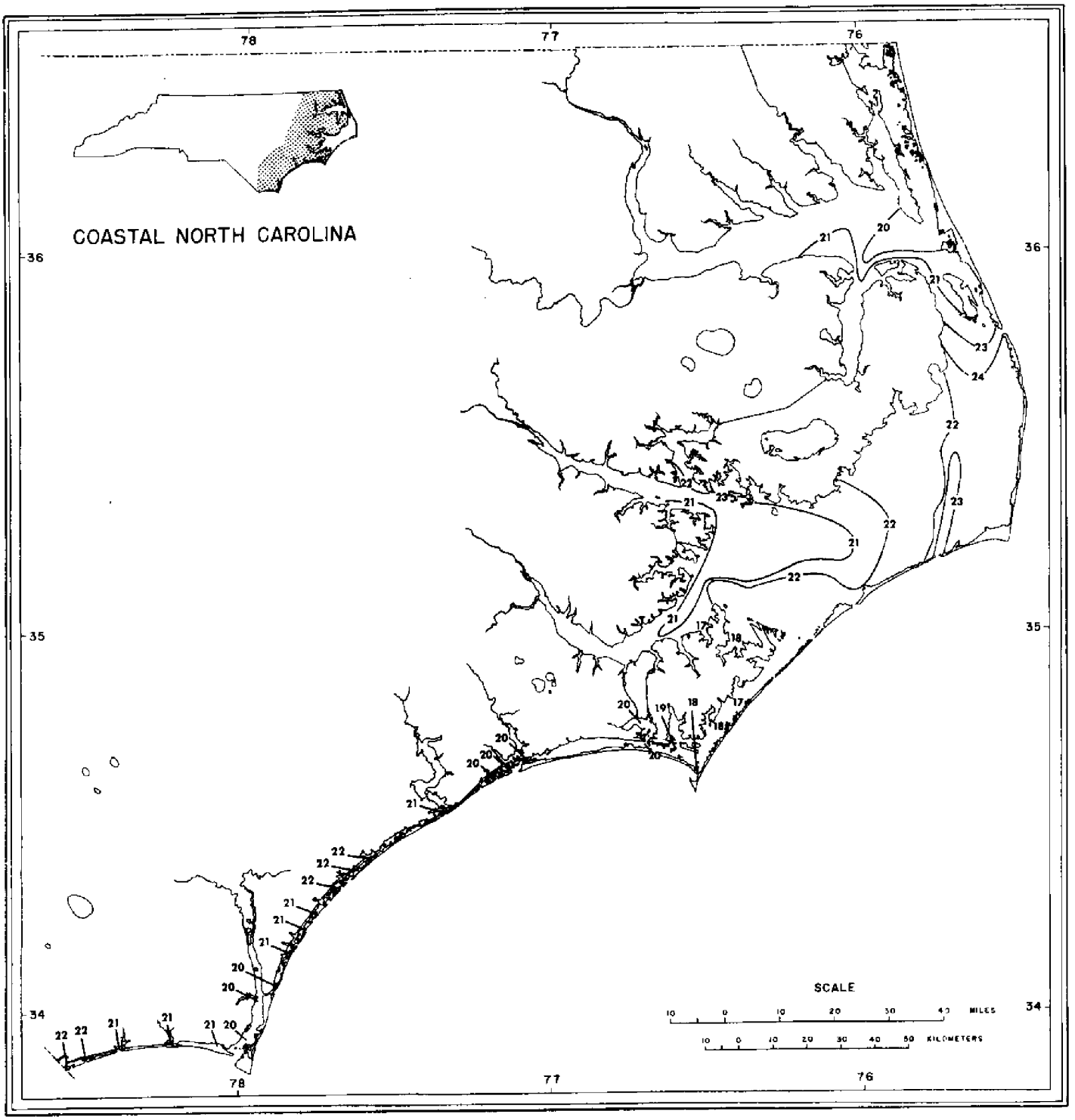

Figure 16. Bottom isotherms in °C., May.

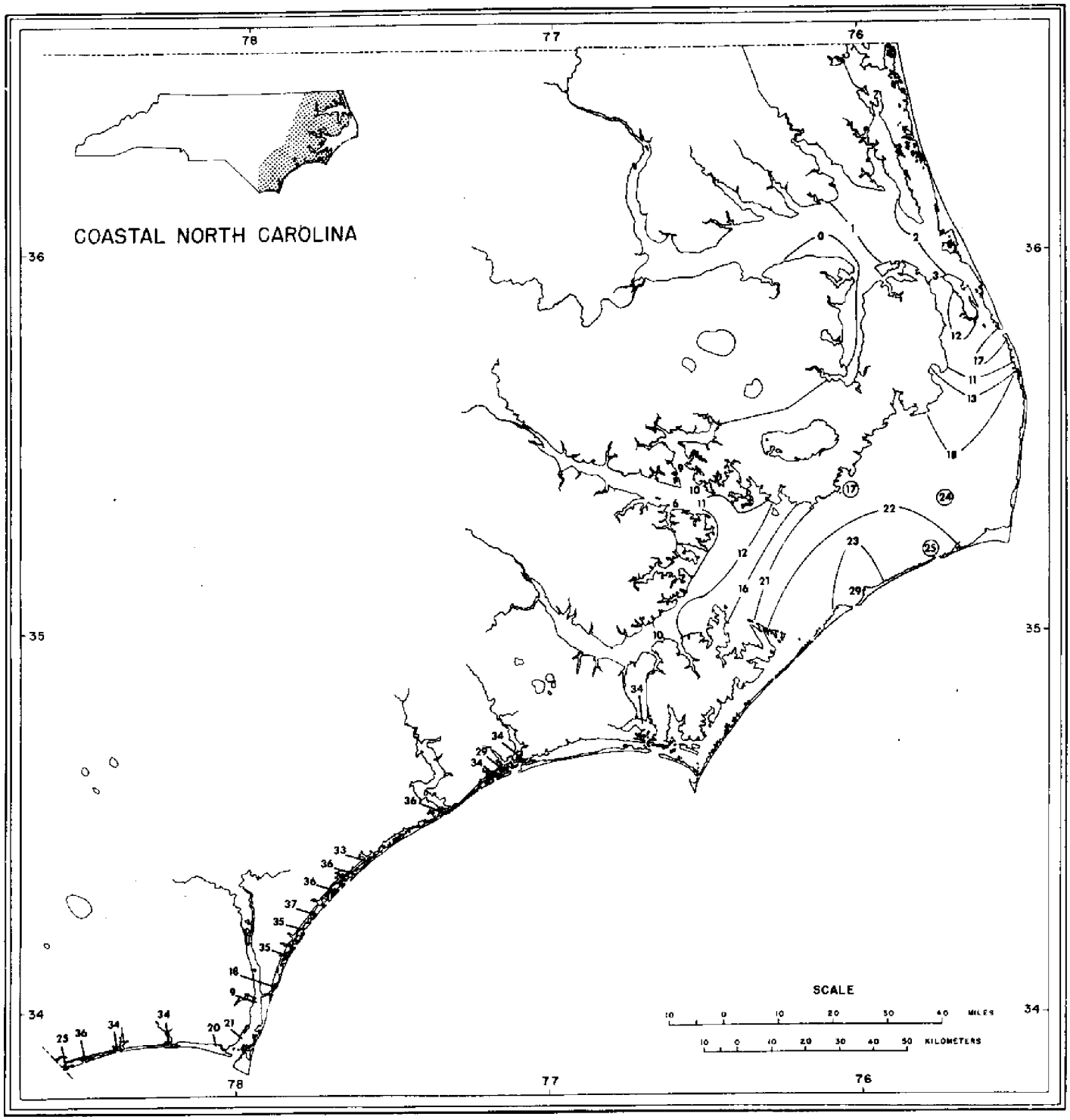

Figure 17. Bottom isohalines in p.p.t., May.

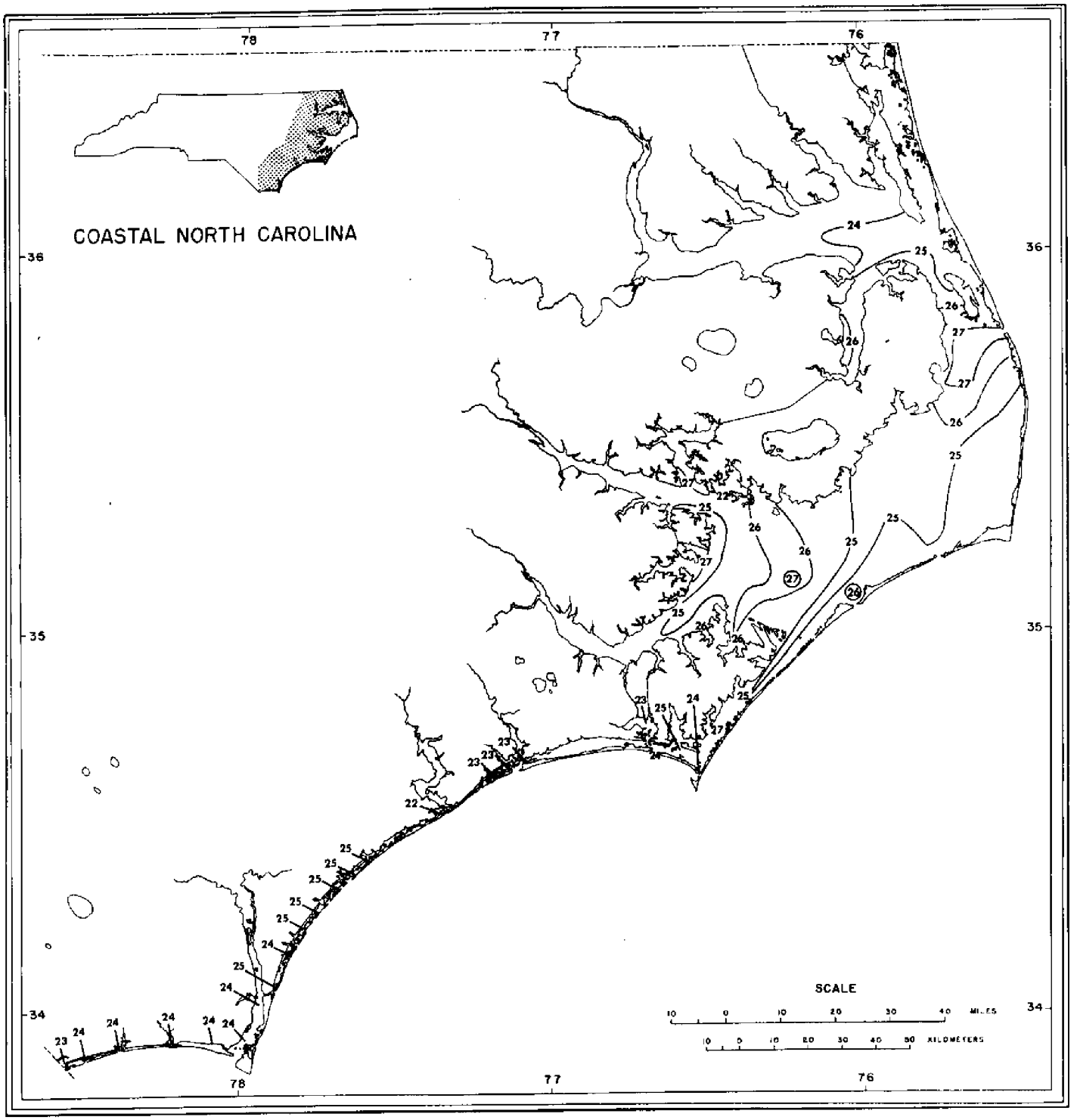

Figure 18. Surface isotherms in °C., June.

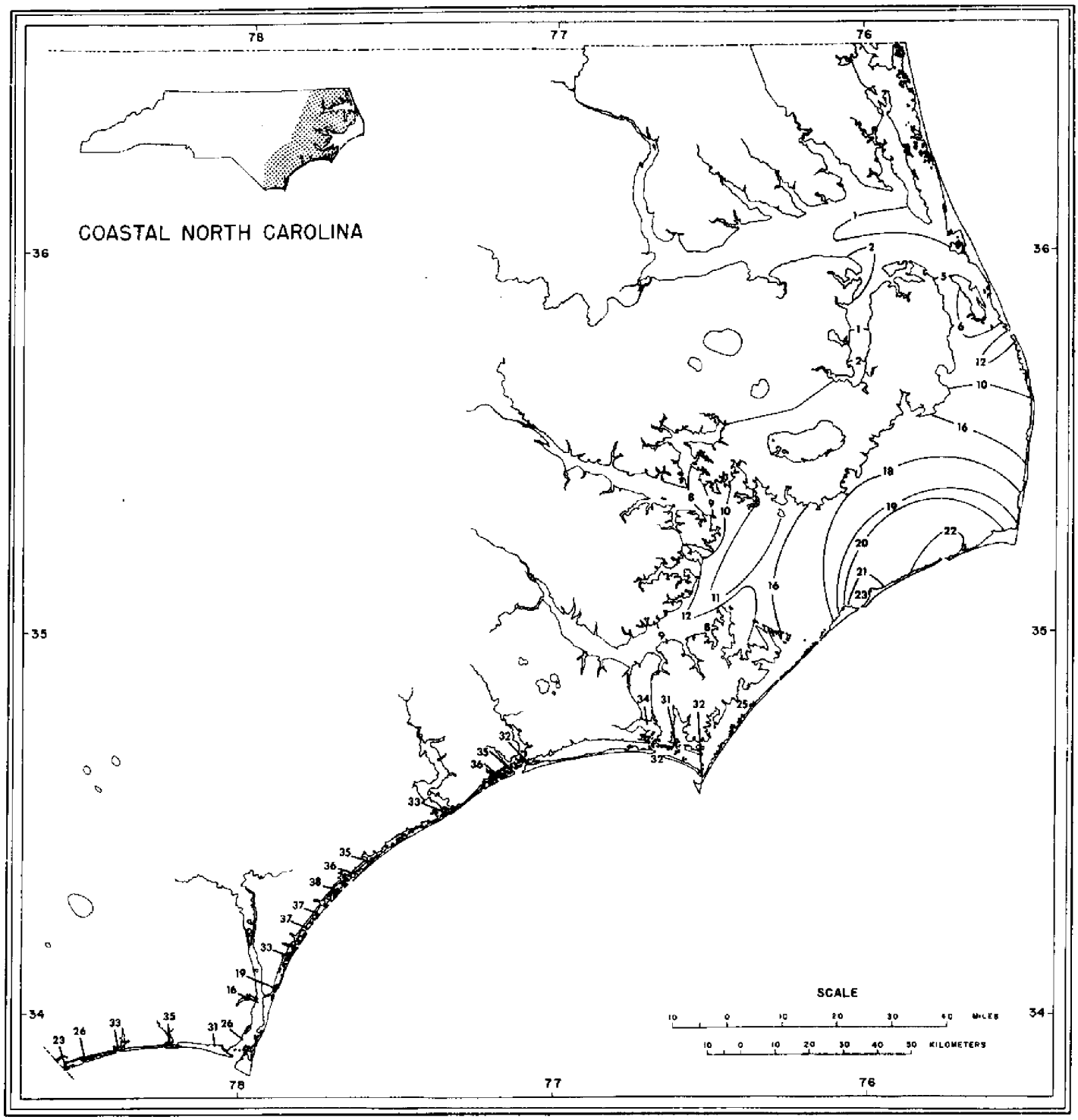

Figure 19. Surface isohalines in p.p.t., June.

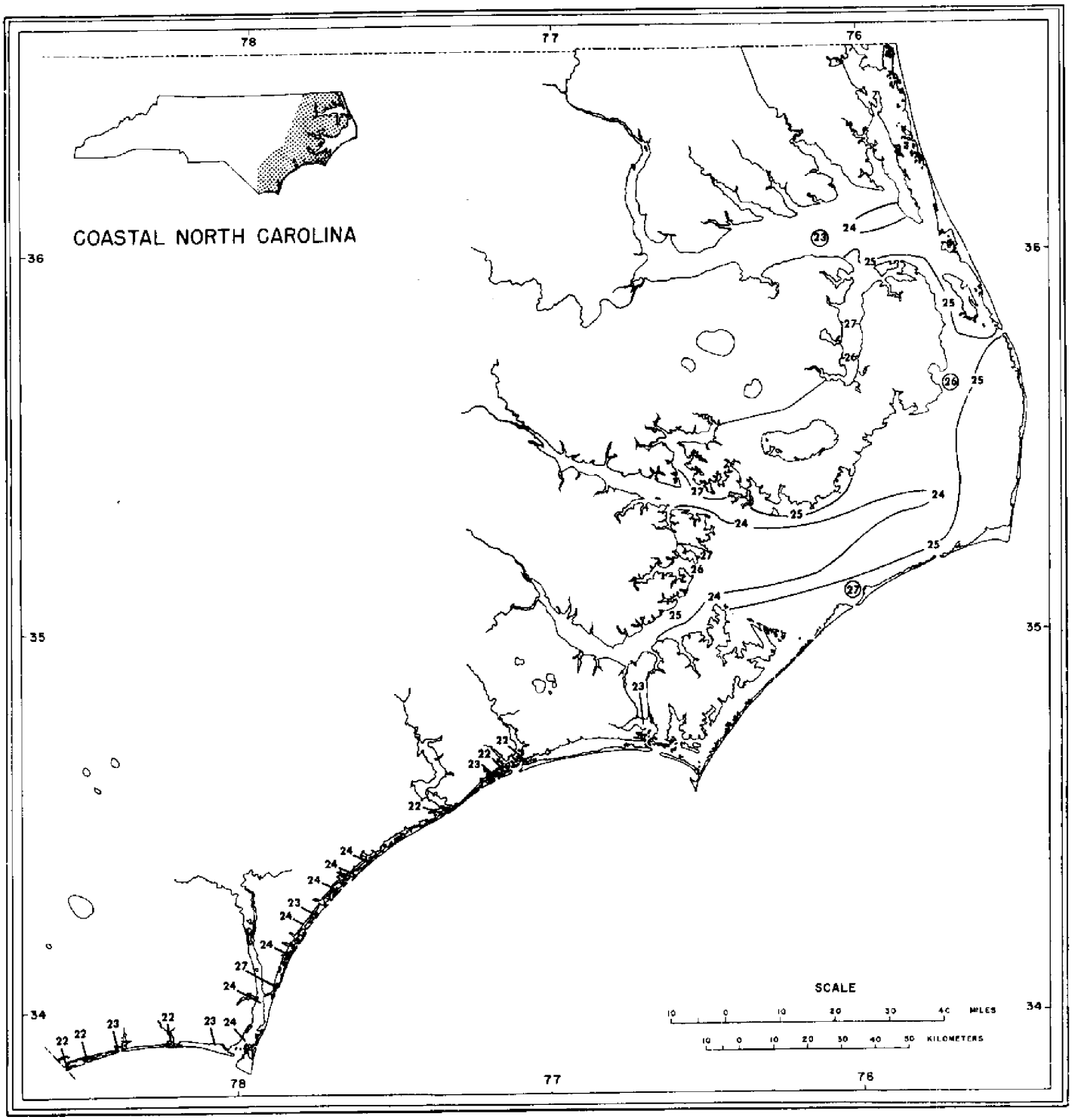

Figure 20. Bottom isotherms in °C., June.

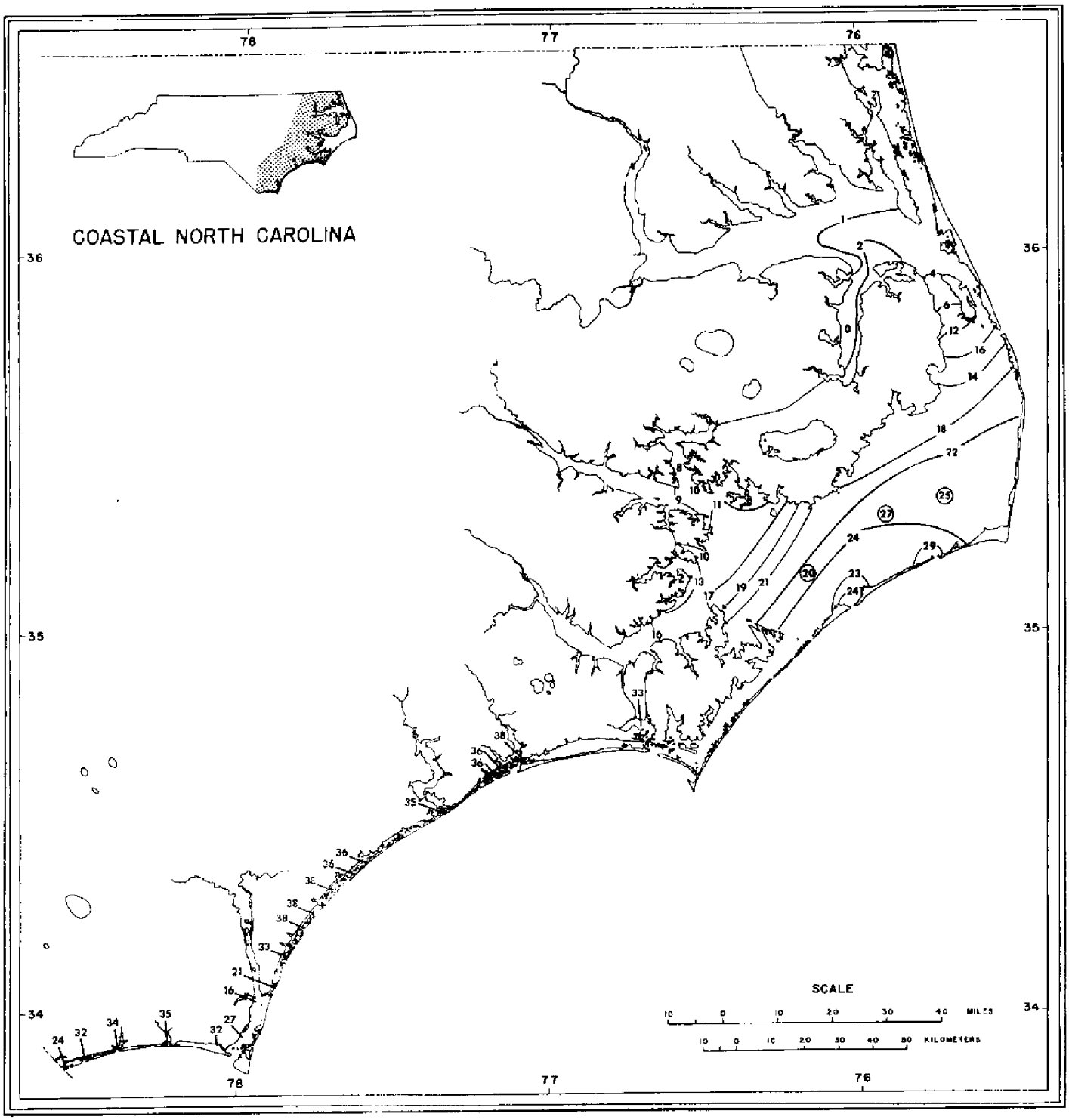

Figure 21. Bottom isohalines in p.p.t., June.

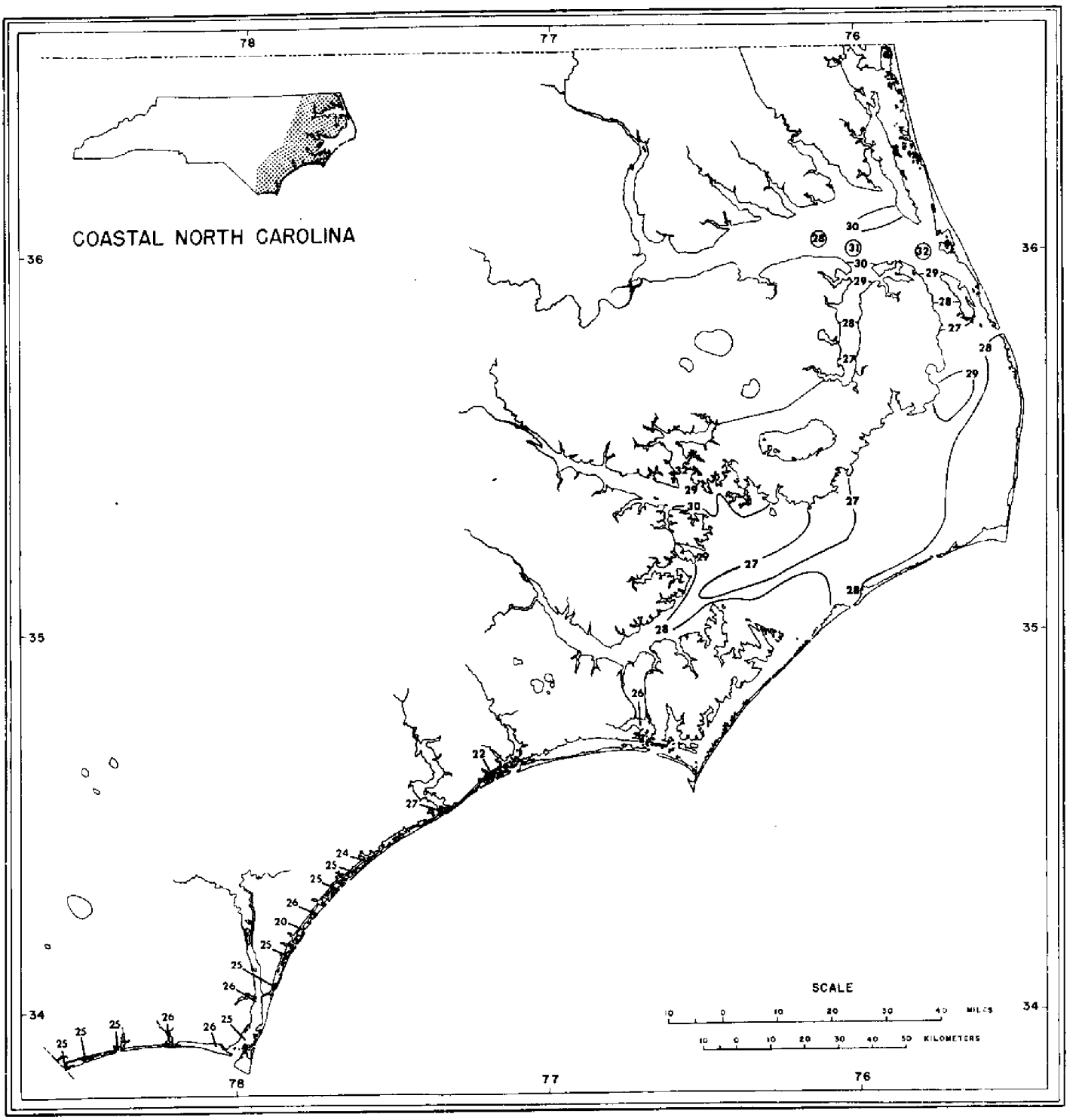

Figure 22. Surface isotherms in °C., July.

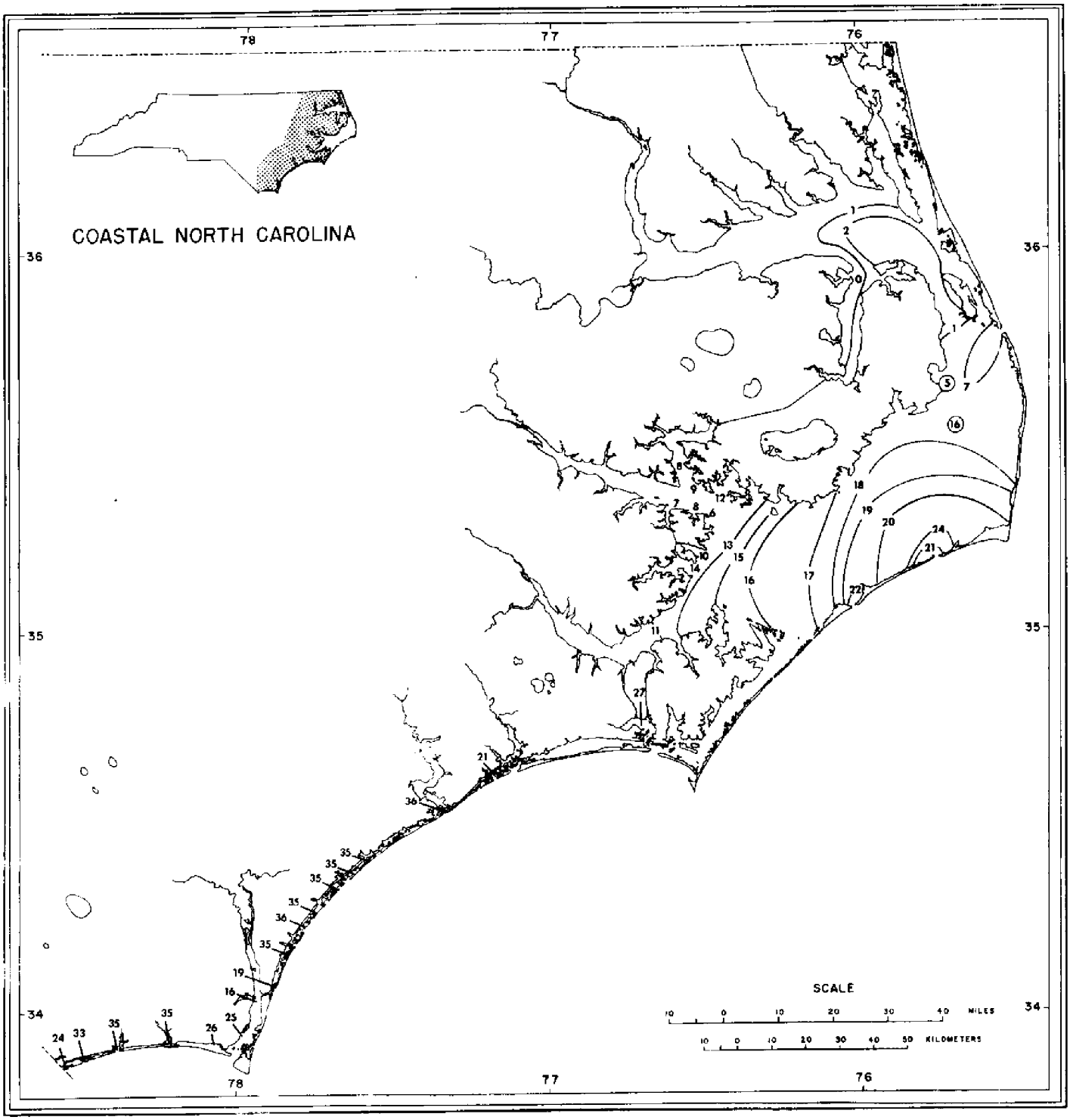

Figure 23. Surface isohalines in p.p.t., July.

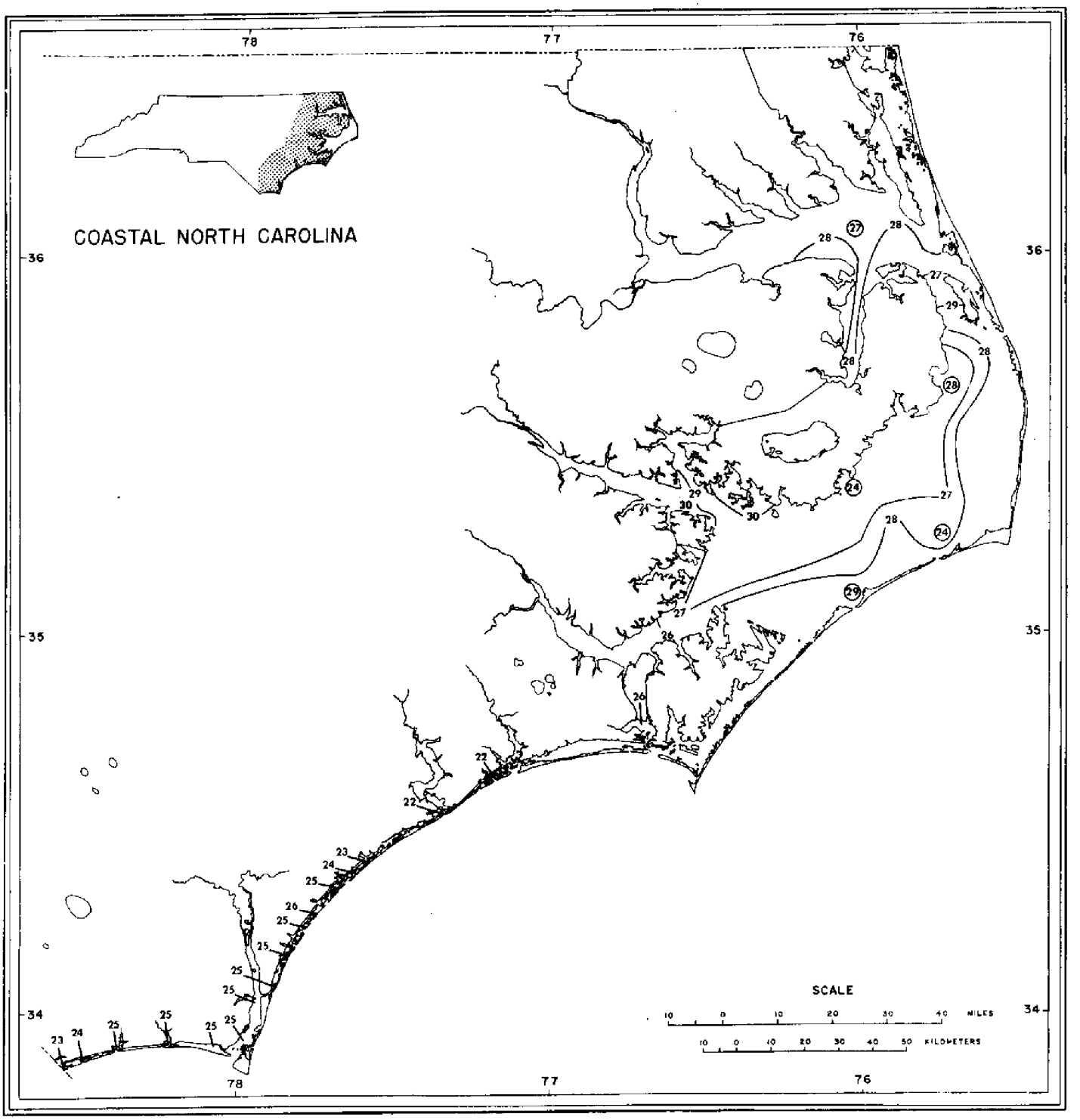

Figure 24. Bottom isotherms in °C., July.

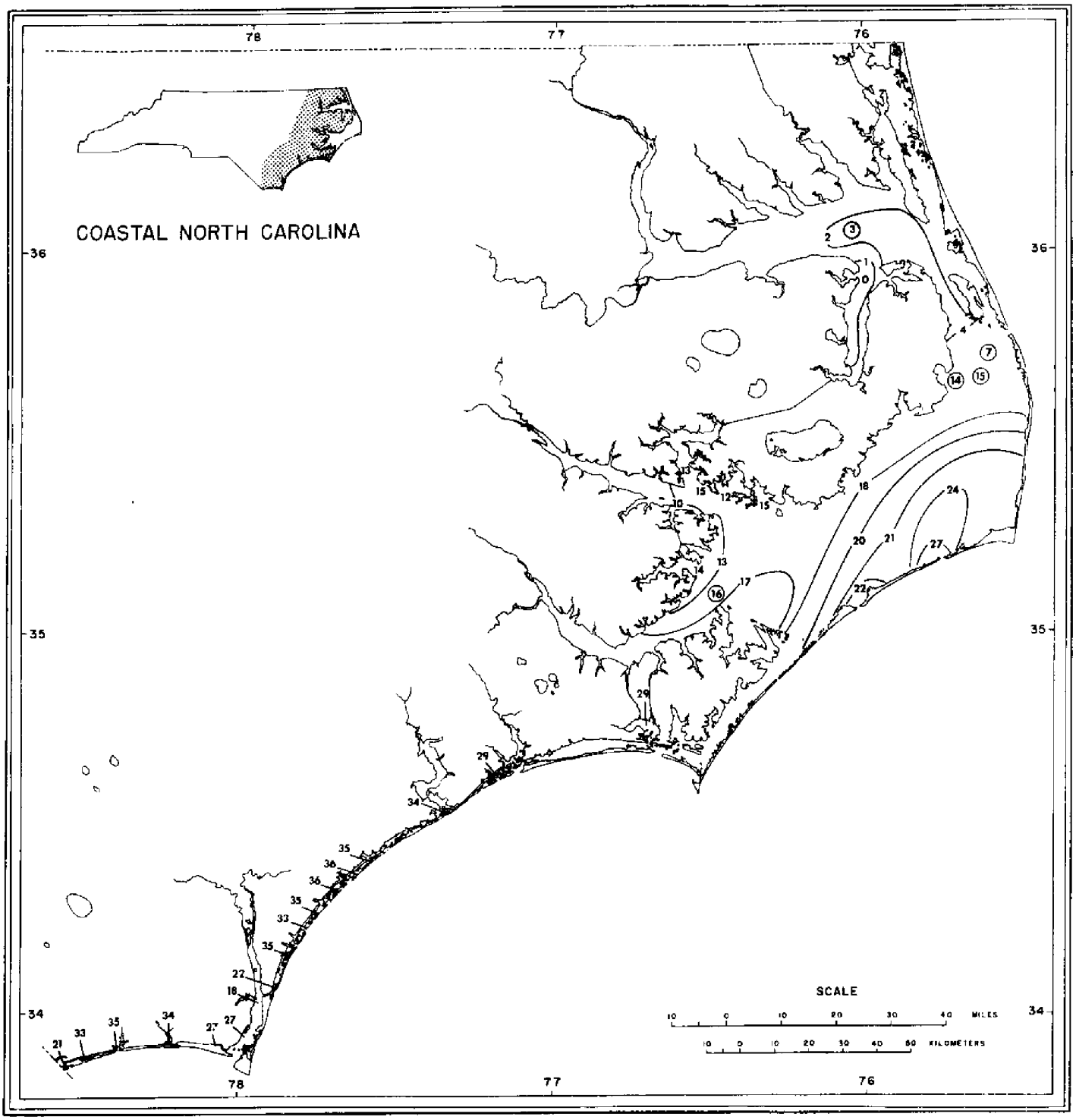

Figure 25. Bottom isohalines in p.p.t., July.

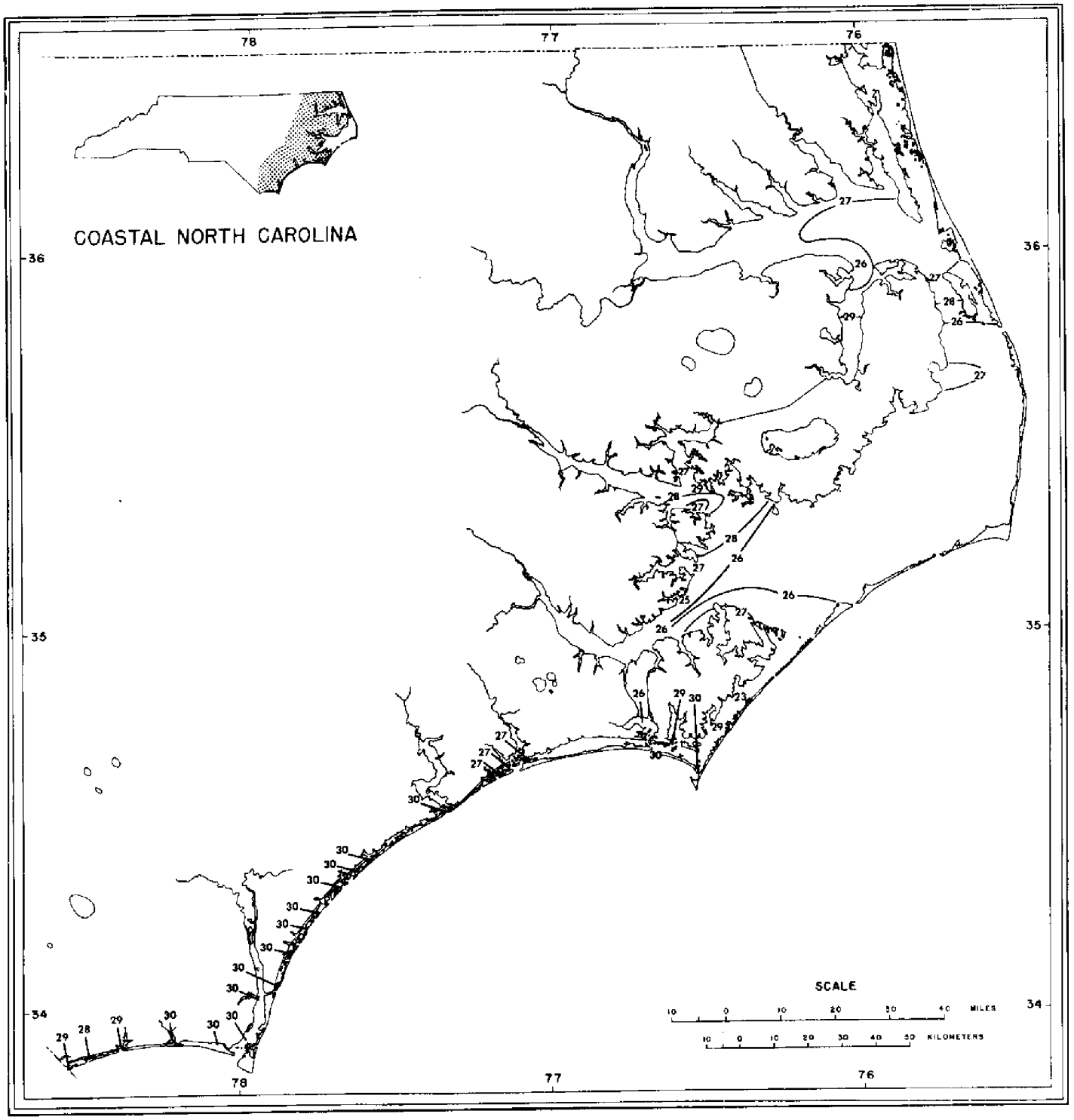

Figure 26. Surface isotherms in °C., August.

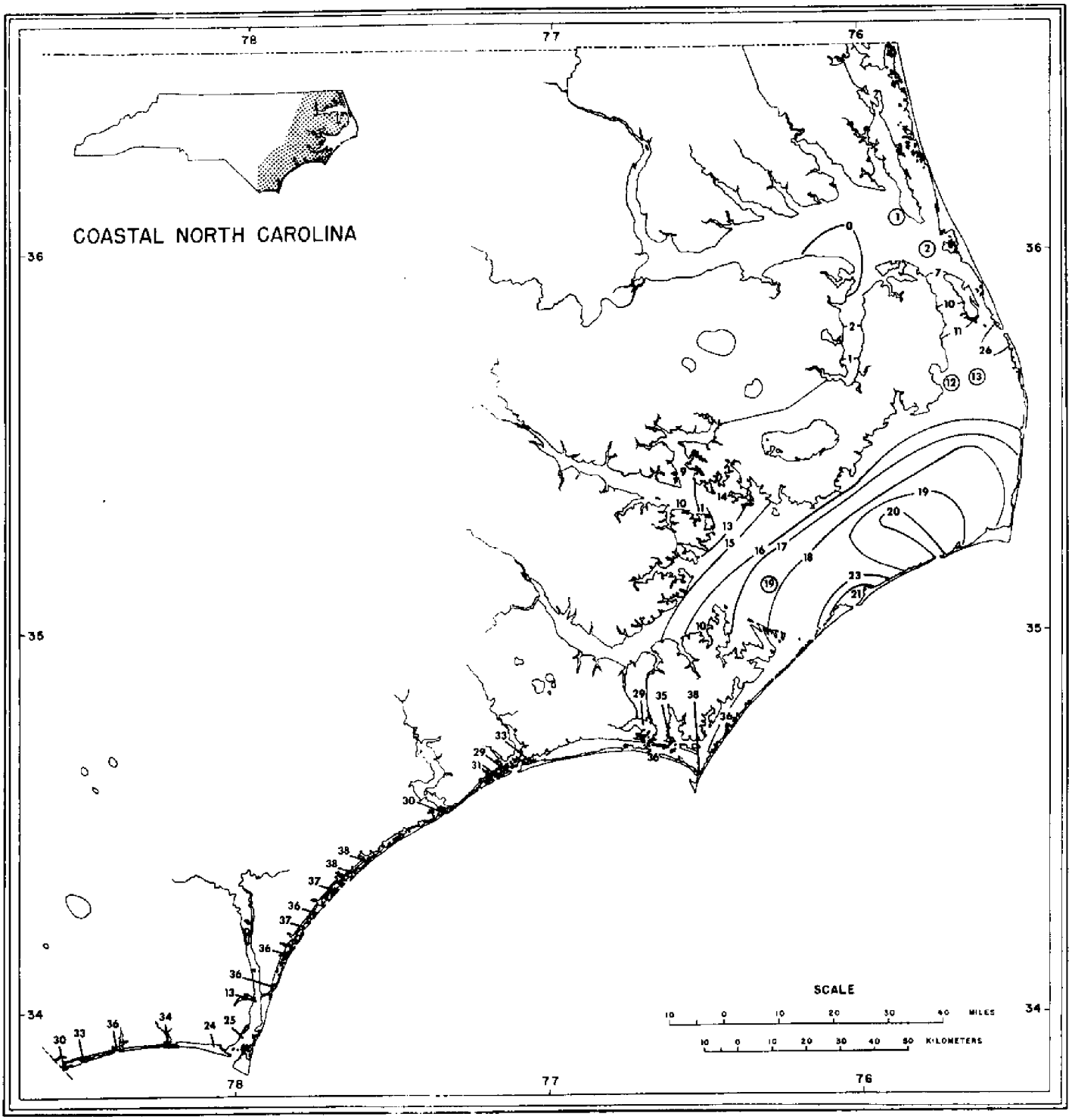

Figure 3[illegible] Surface isohalines in p.p.t., August.

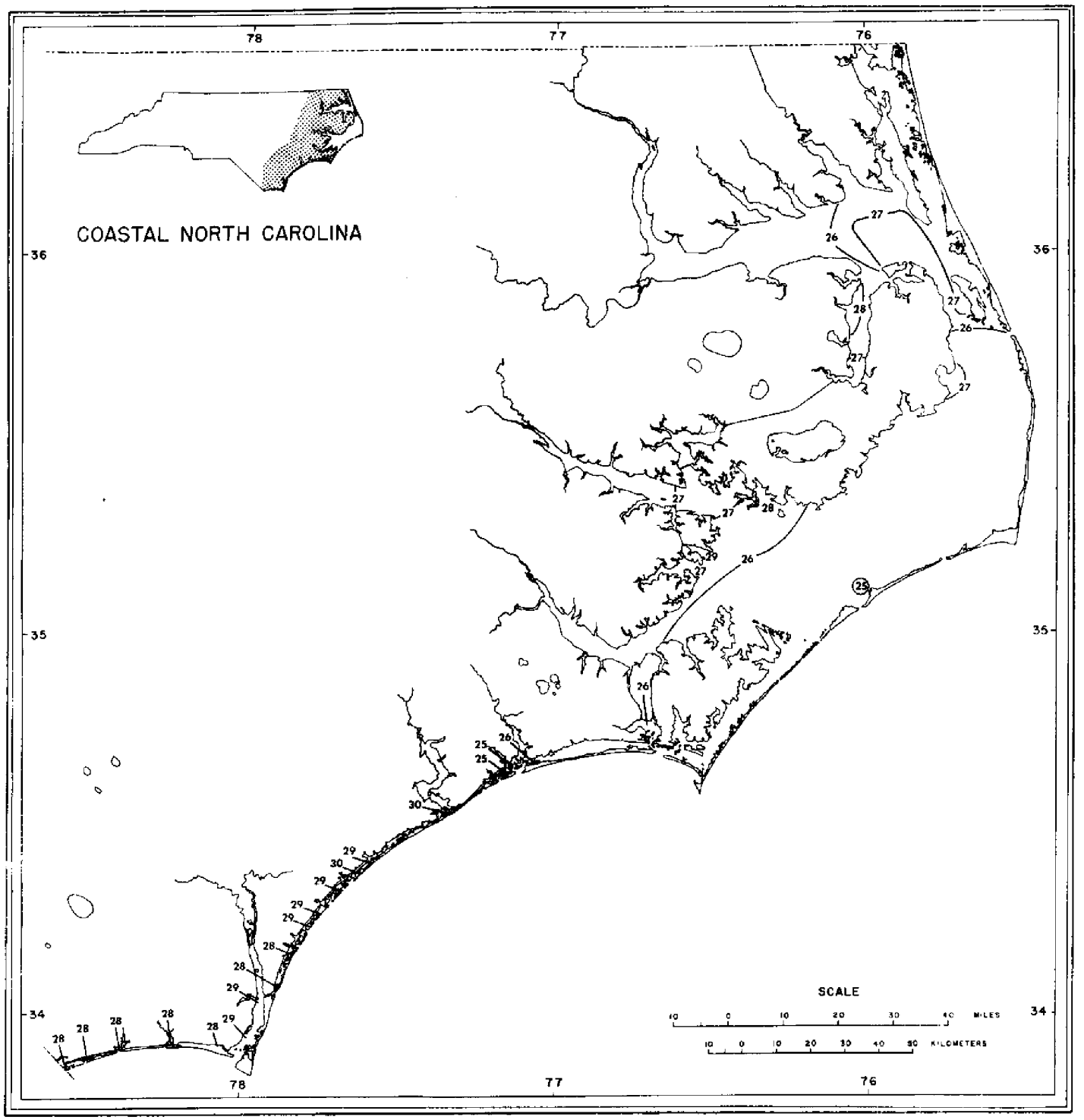

Figure 28. Bottom isotherms in °C., August.

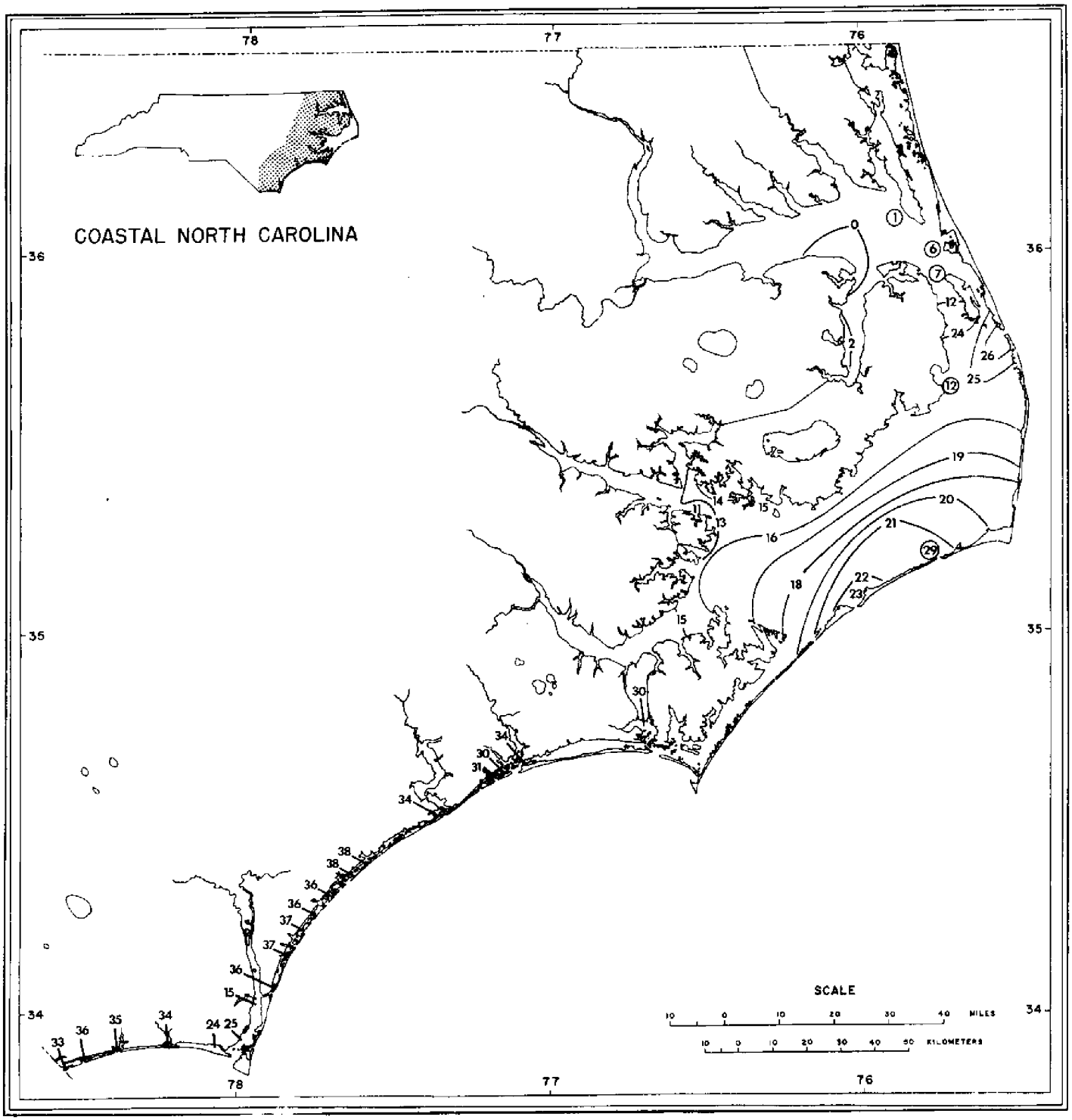

Figure 29. Bottom isohalines in p.p.t., August.

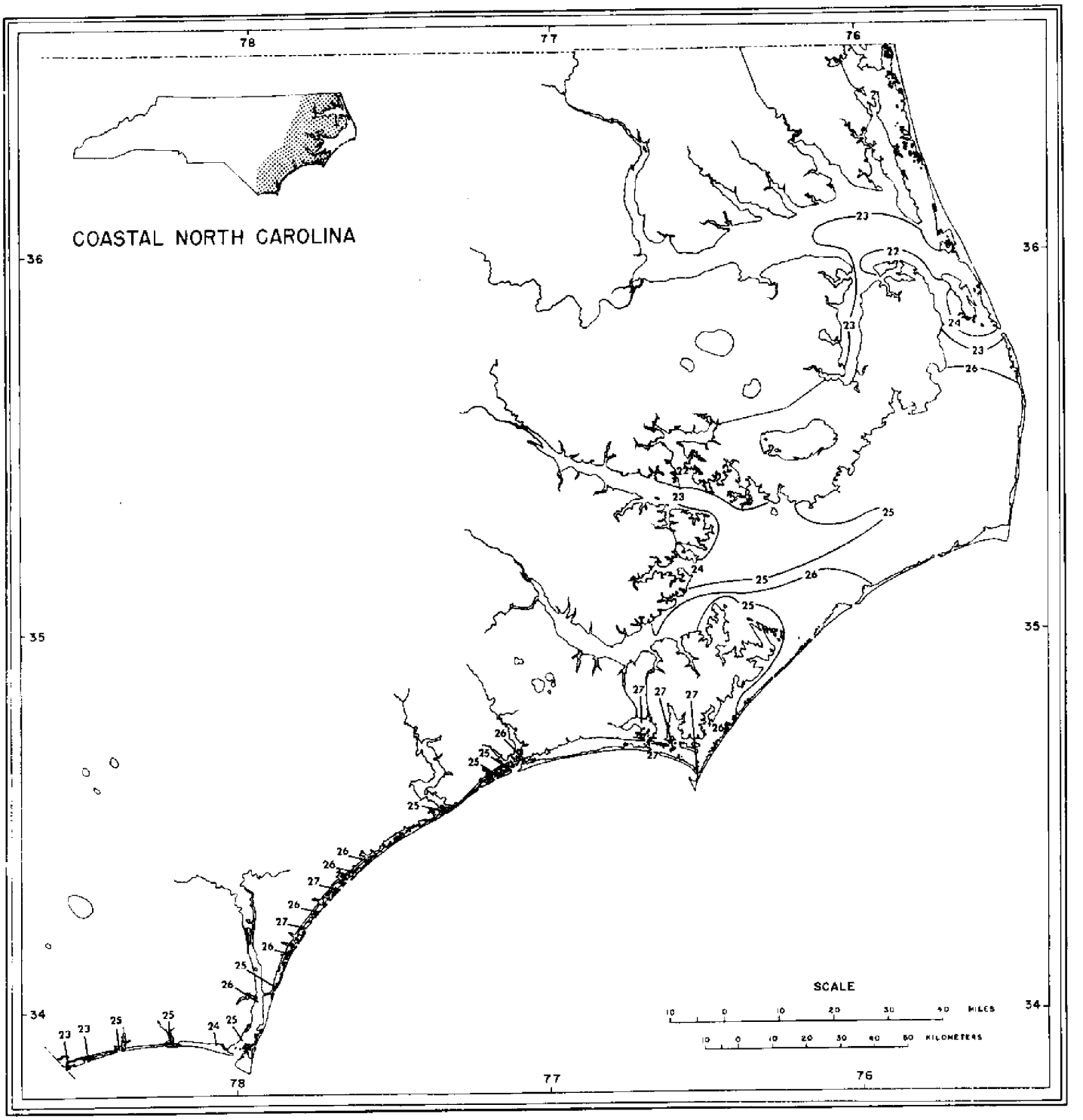

Figure 30. Surface isotherms in °C., September.

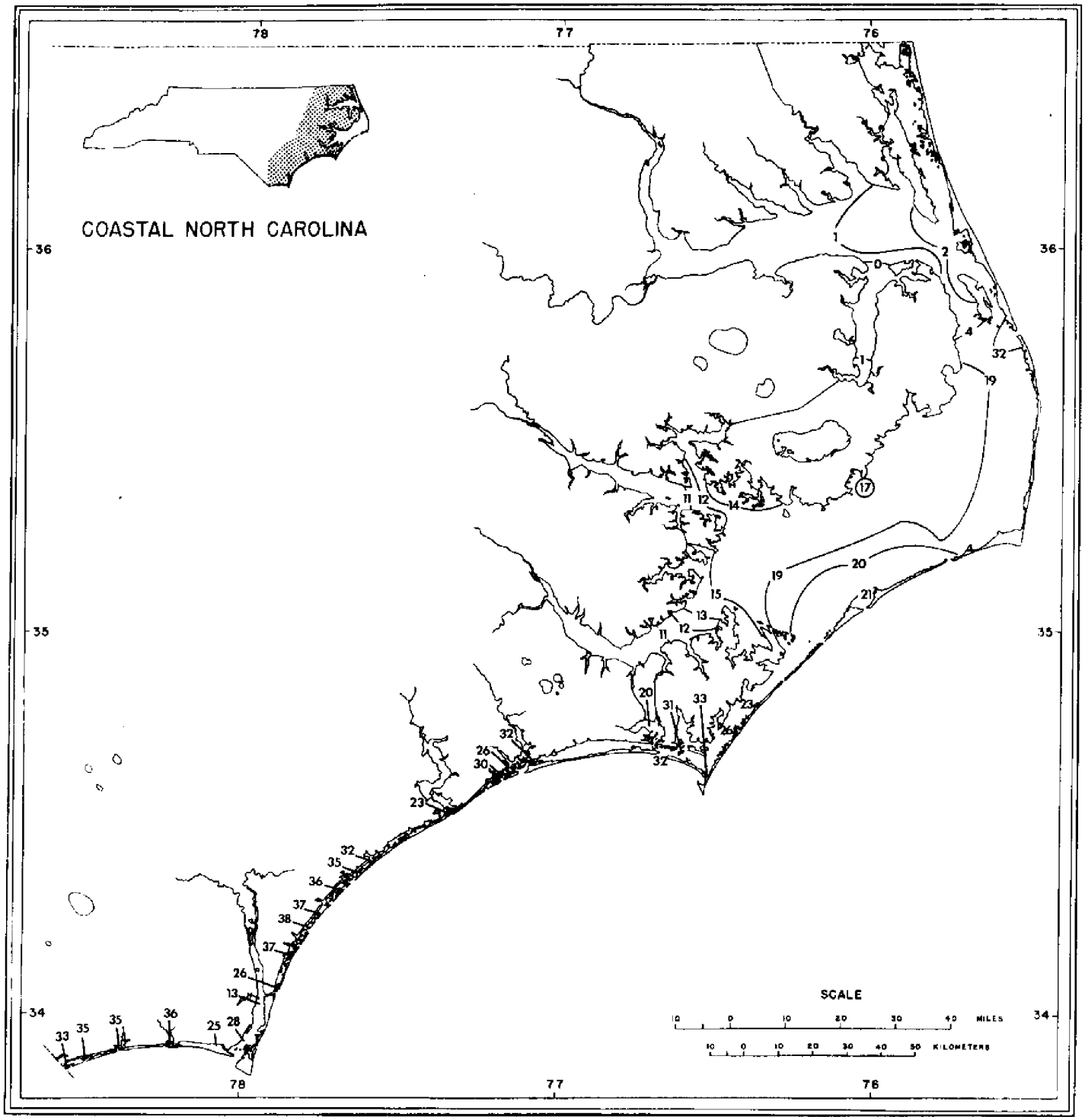

Figure 31. Surface isohalines in p.p.t., September.

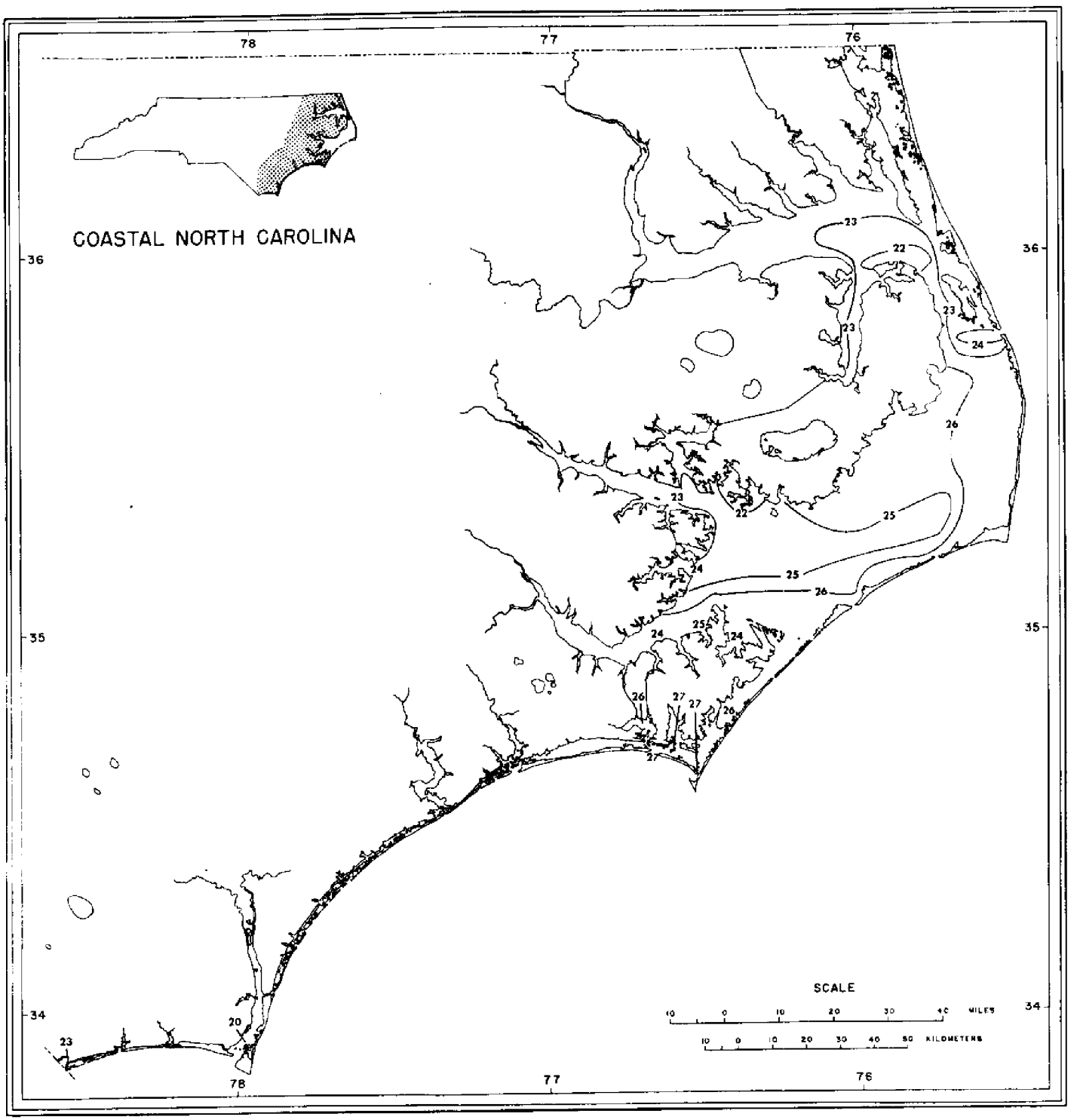

Figure 32. Bottom isotherms in °C., September.

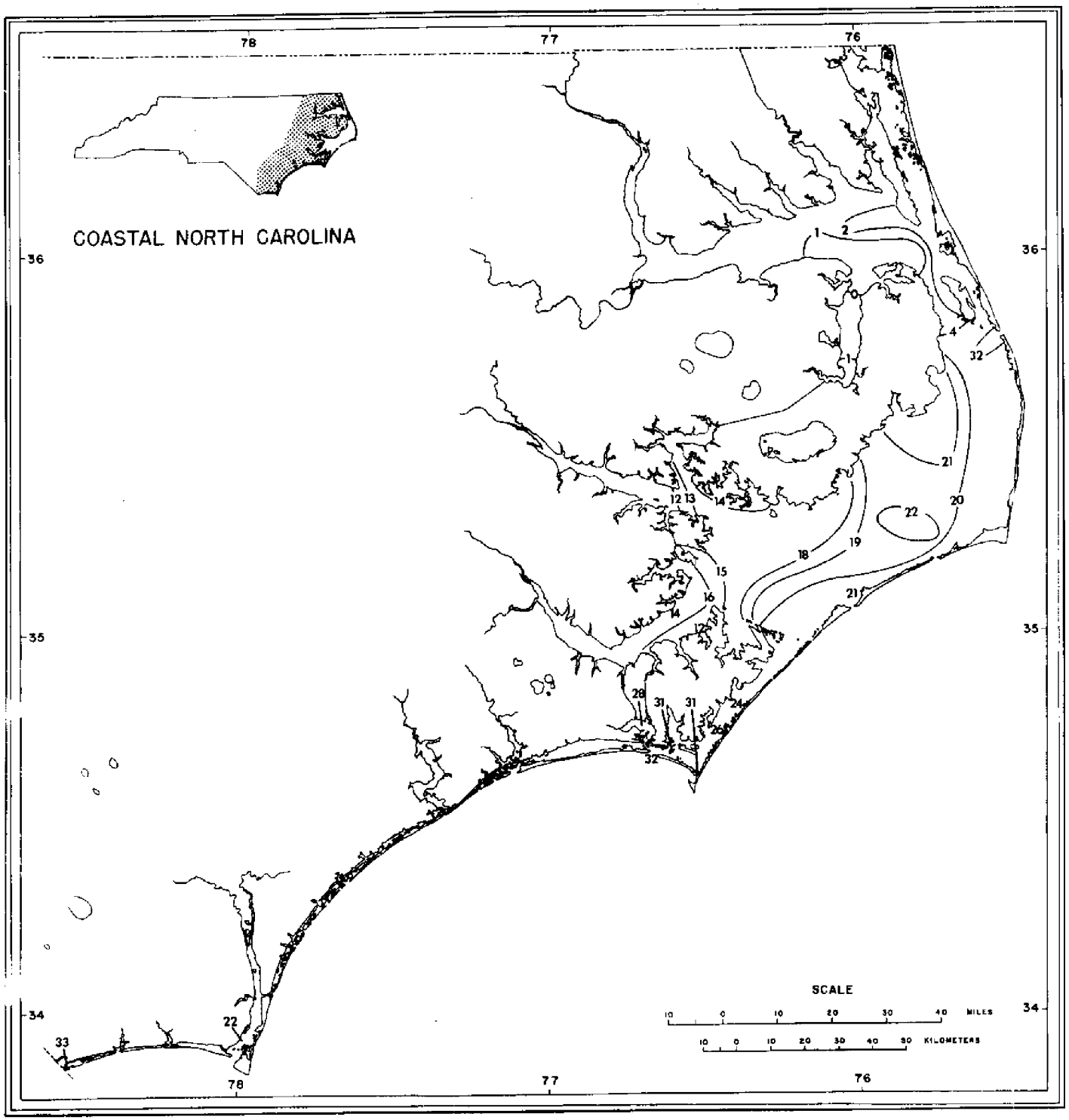

Figure 33. Bottom isohalines in p.p.t., September.

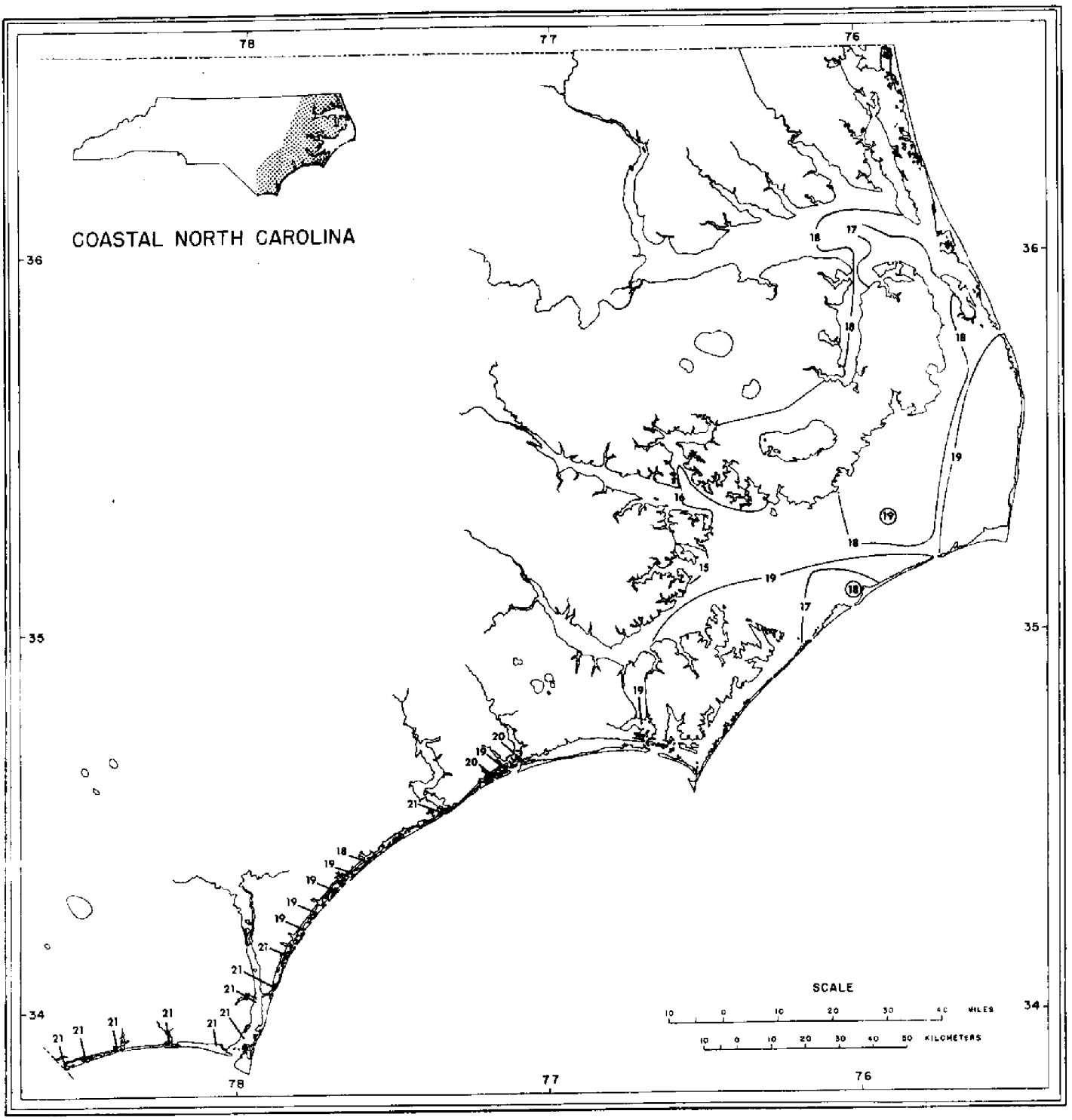

Figure 34. Surface isotherms in °C., October.

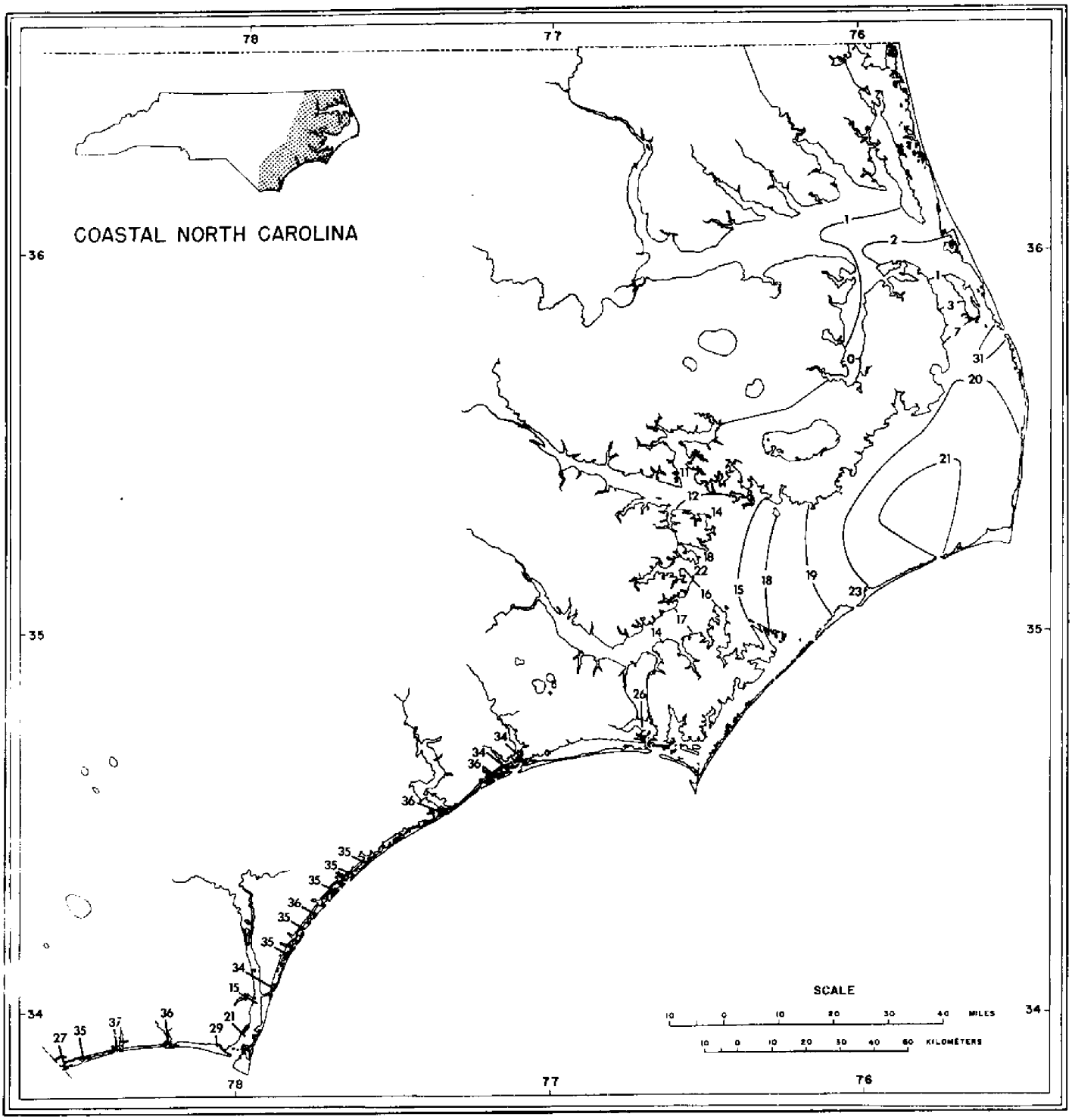

Figure 35. Surface isohalines in p.p.t., October.

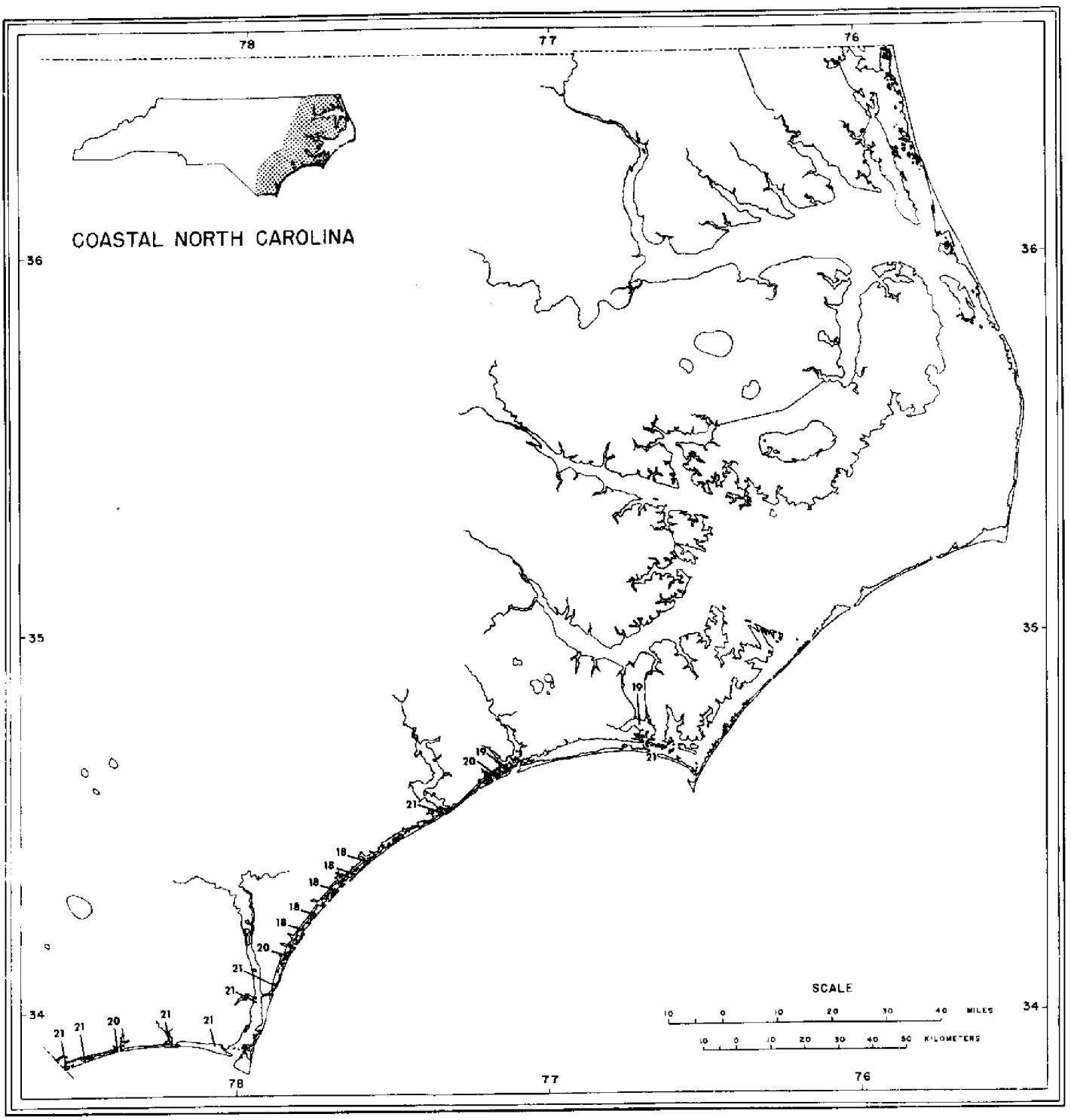

Figure 36. Bottom isotherms in °C., October.

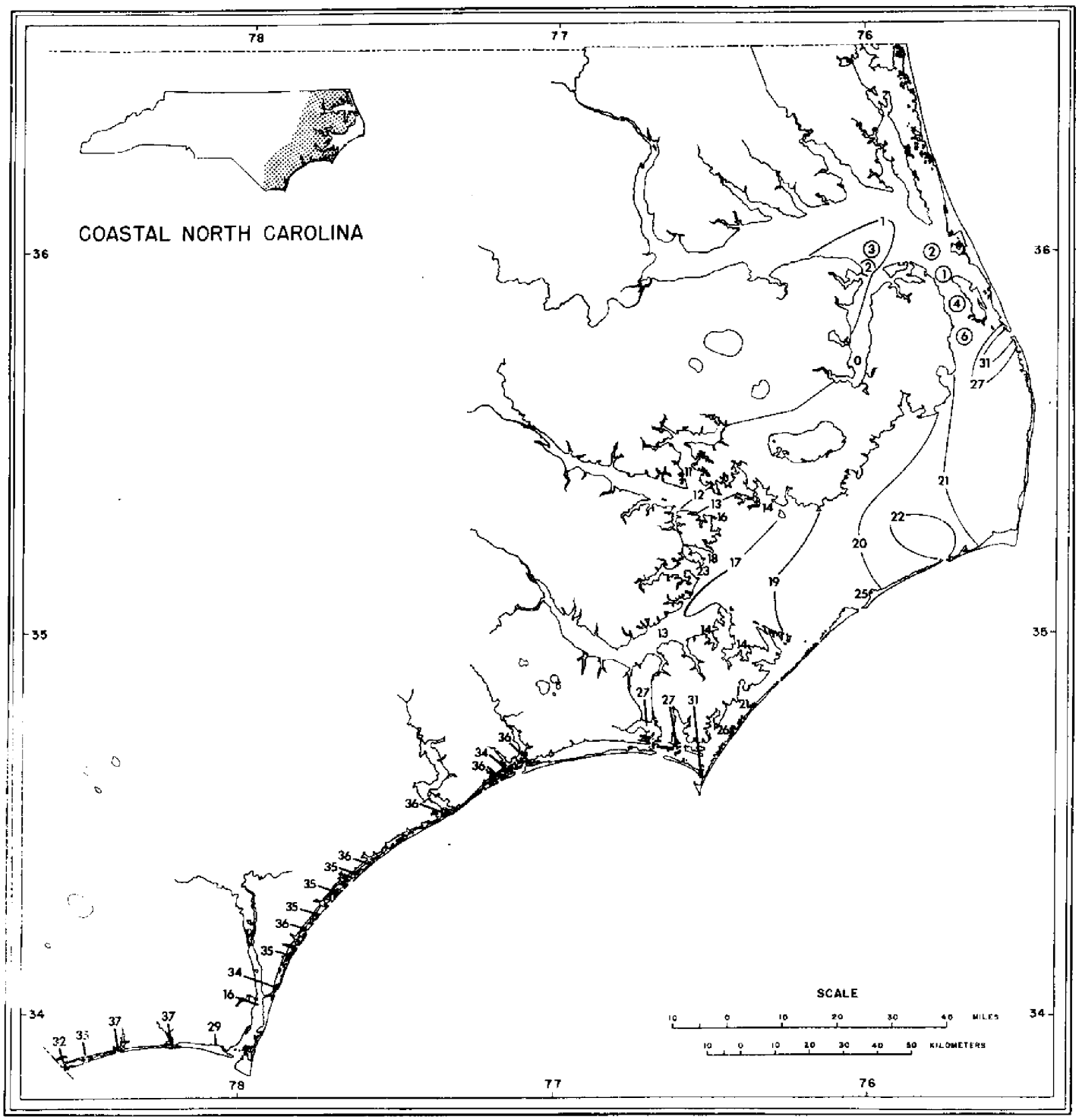

Figure 37. Bottom isohalines in p.p.t., October.

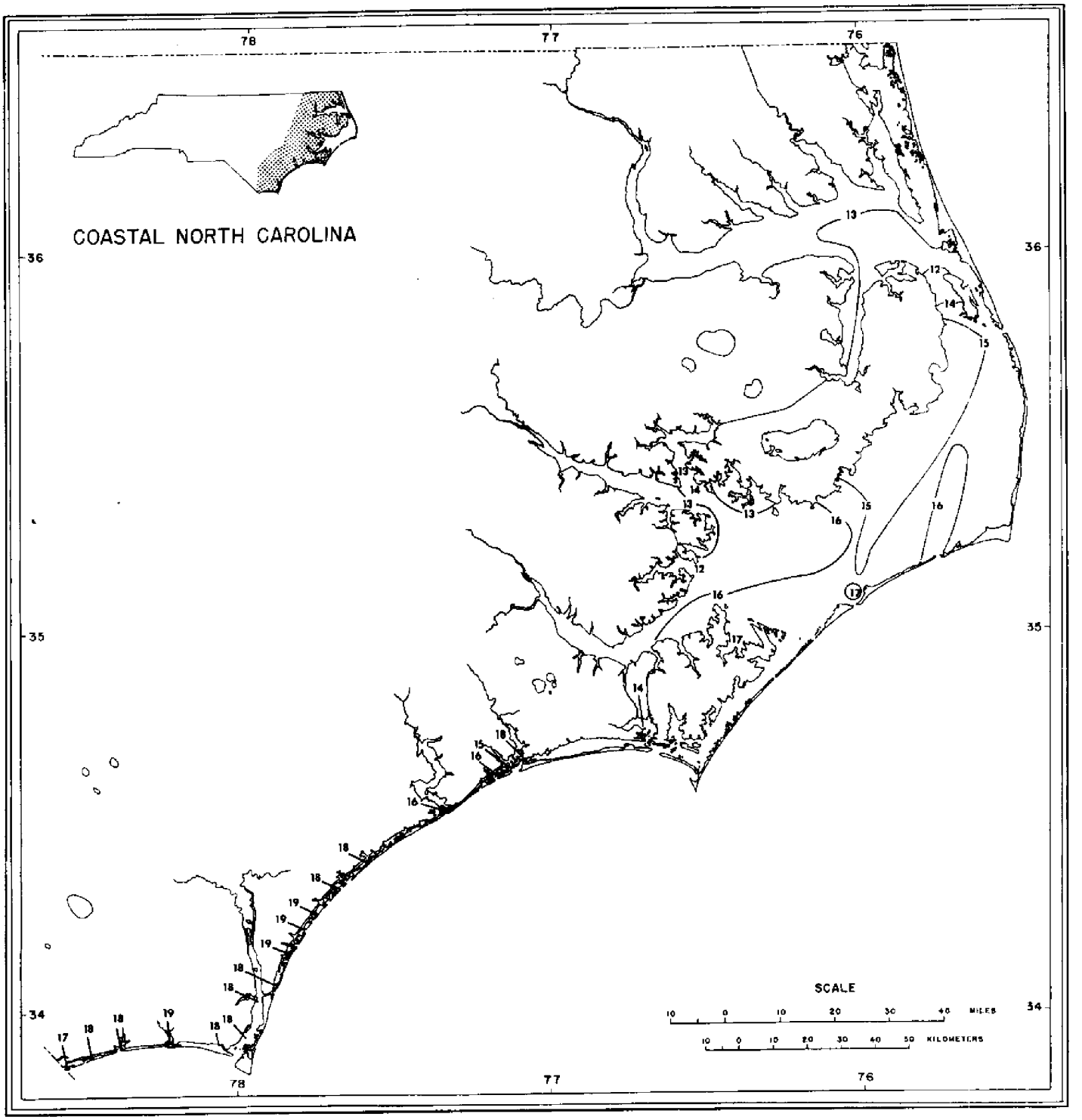

Figure 38. Surface isotherms in °C., November.

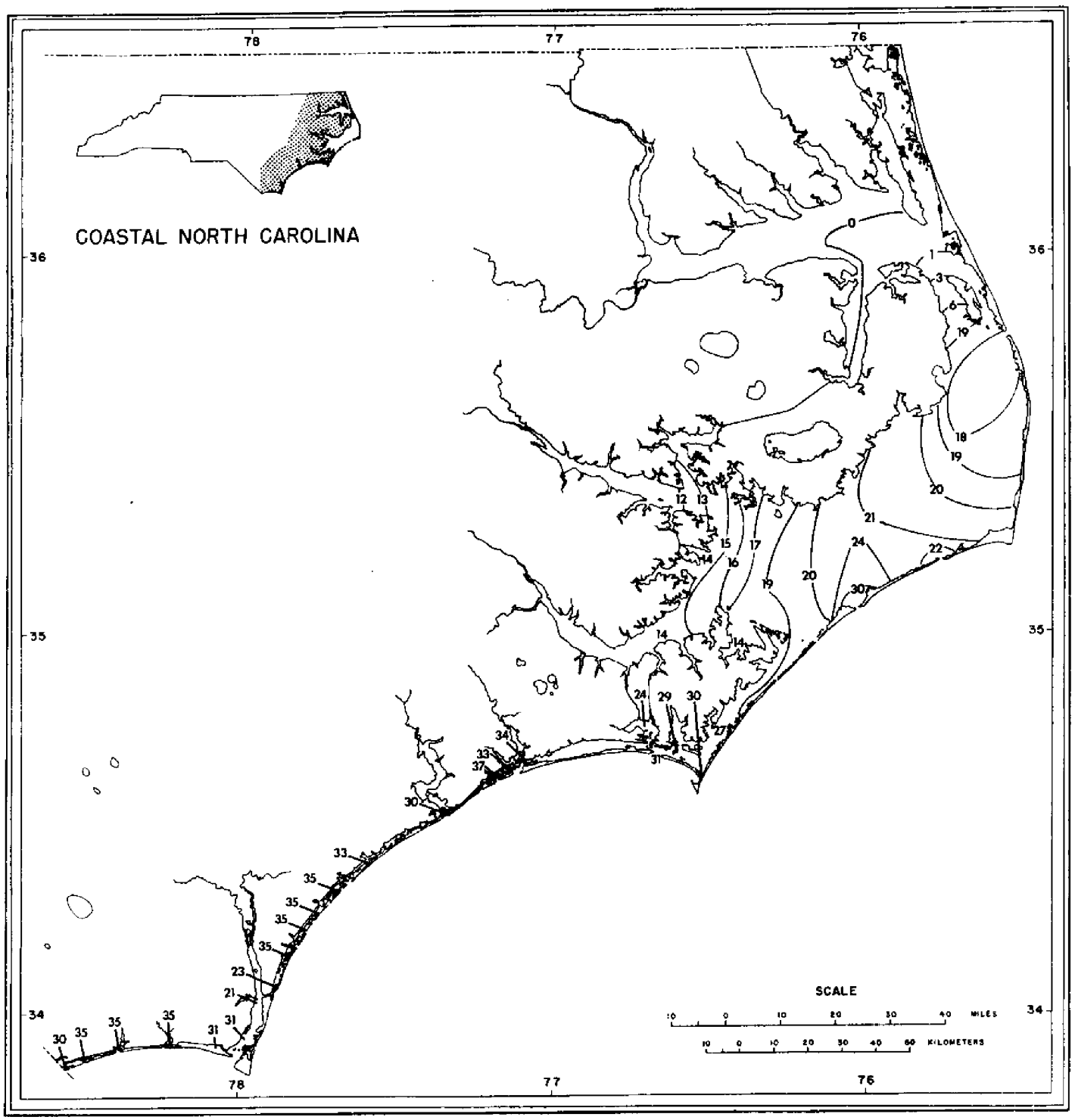

Figure 39. Surface isohalines in p.p.t., November.

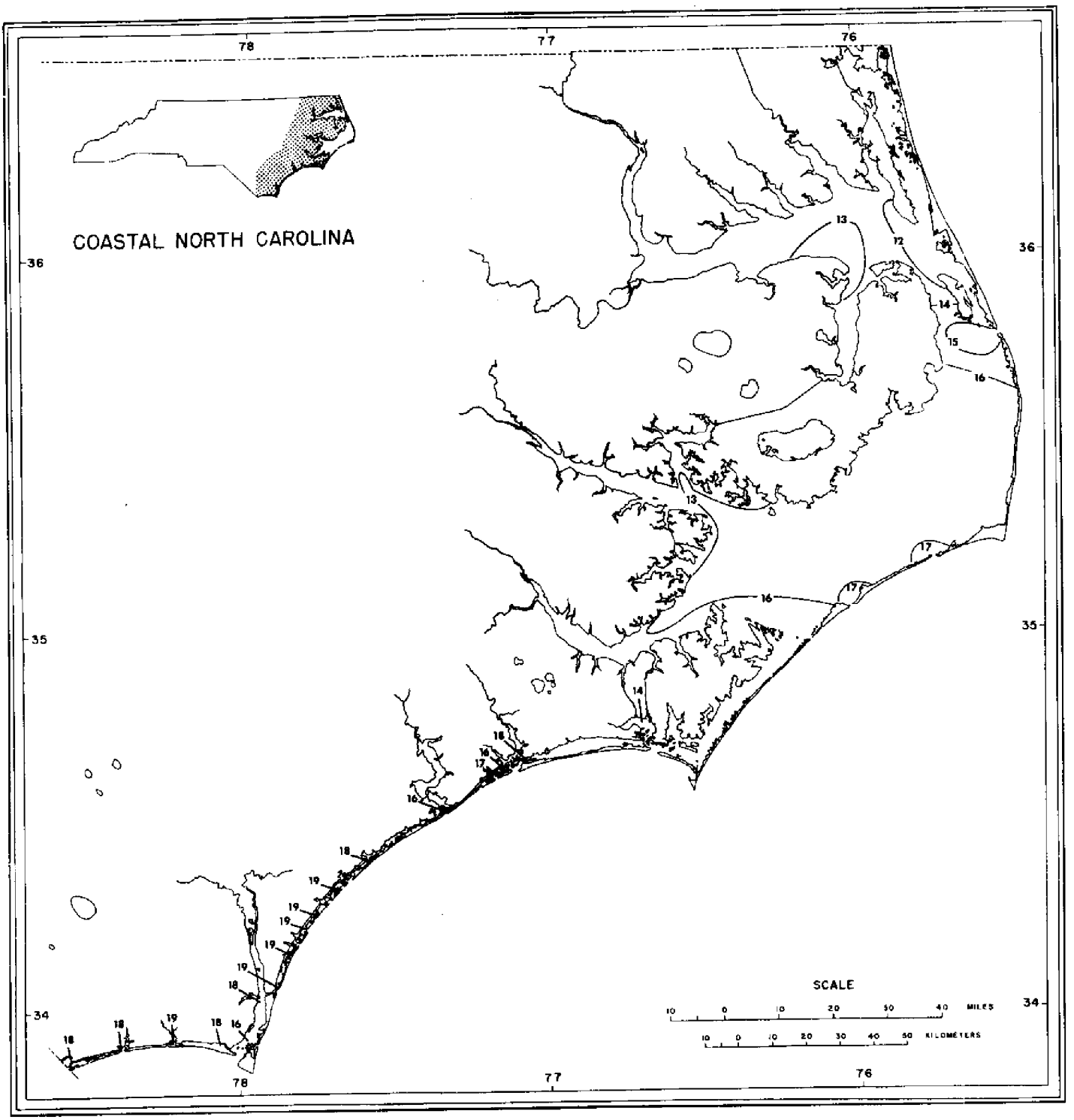

Figure 40. Bottom isotherms in °C., November.

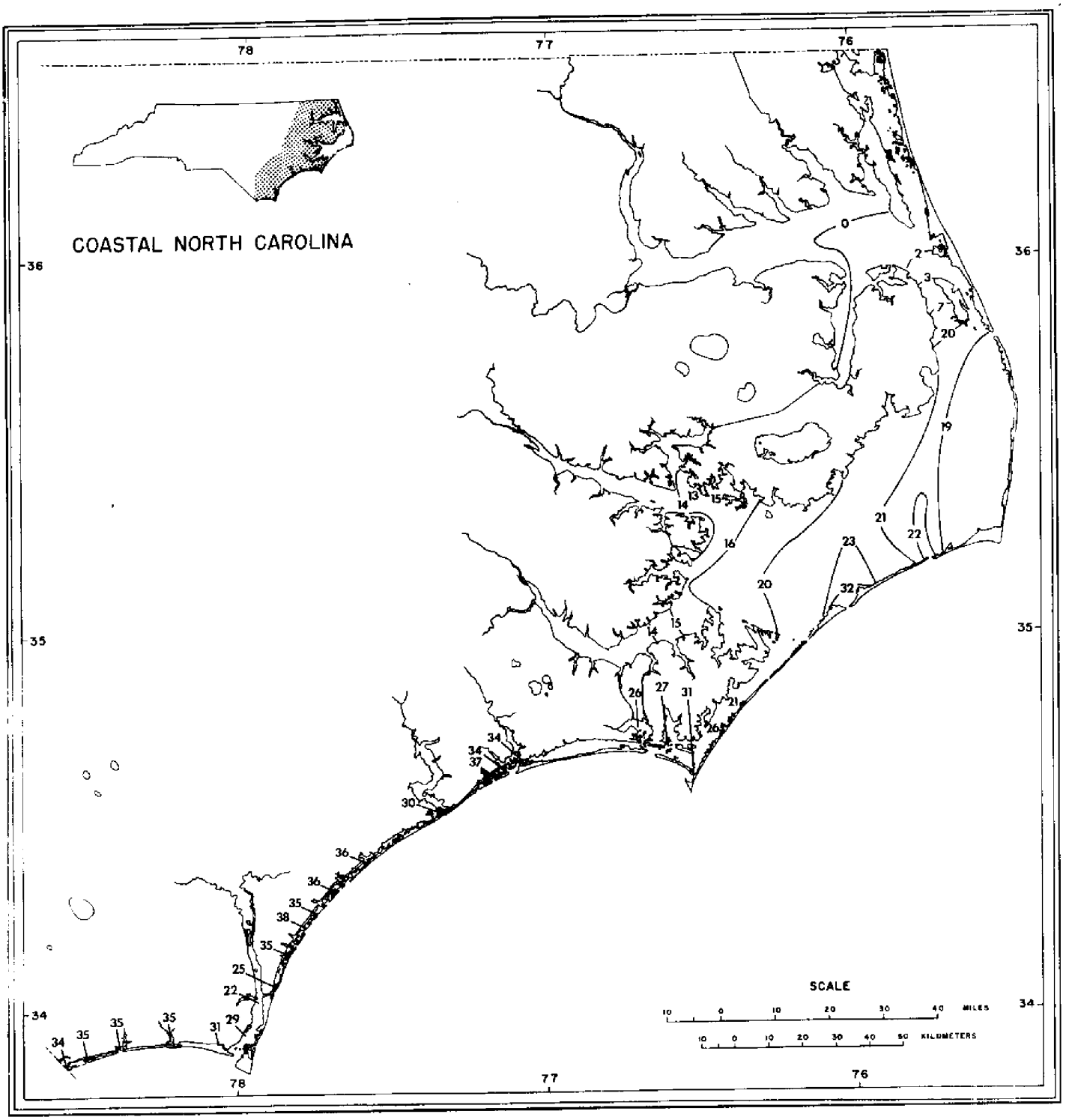

Figure 41. Bottom isohalines in p.p.t., November.

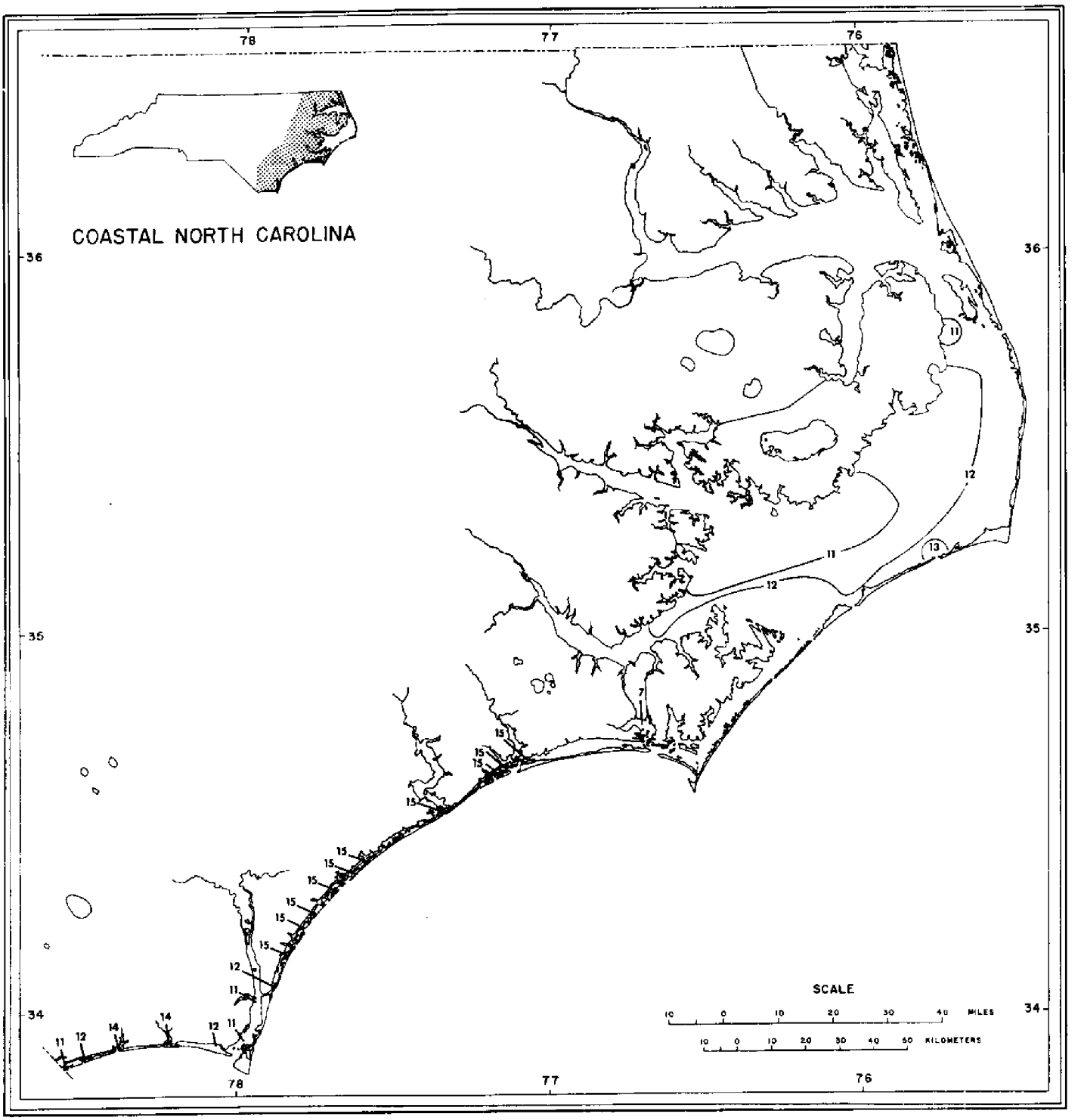

Figure 42. Surface isotherms in °C., December.

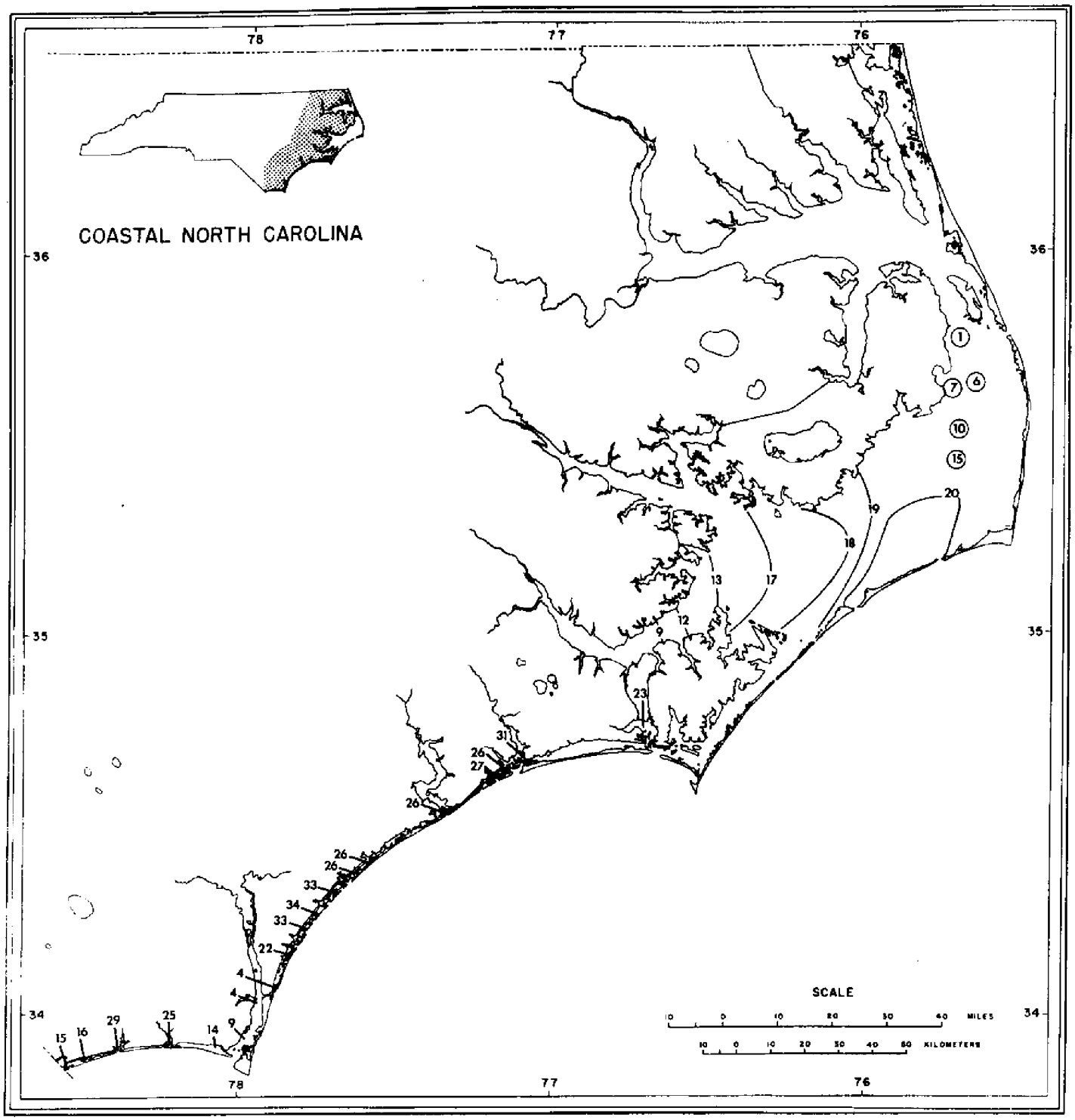

Figure 43. Surface isohalines in p.p.t., December.

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UNC-SG-72-01. Lyman, J. and W. Rickards. University of North Carolina Sea Grant Program, Annual Report, 1 July 1970 - 30 June 1971.

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UNC-SG-72-14. Tung, C. C. and N. E. Huang. Some statistical properties of wave-current force on objects.

UNC-SG-72-15. Tung, C. C. and N. E. Huang. Wave-current force spectra.

UNC-SG-73-01. Wurfel, S. W. The surge of sea law.

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UNC-SG-73-12. Schwartz, F. J. and A. F. Chestnut. Hydrographic atlas of North Carolina estuarine and sound waters, 1972.

UNC-SG-73-13. Lyman, J. and W. Rickards. University of North Carolina Sea Grant Program, Annual Report, 1 July 1971 - 31 December 1972.

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