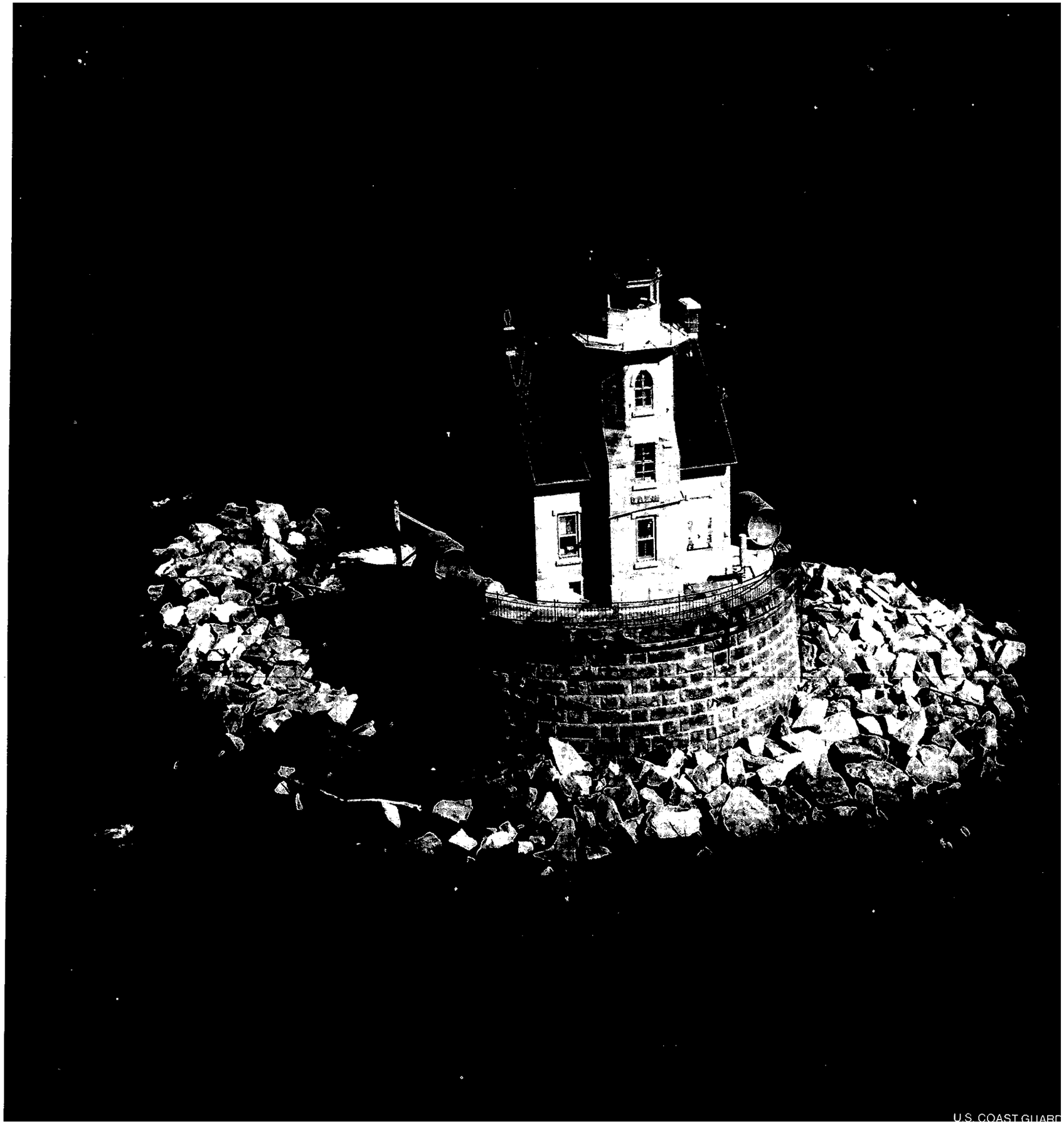
LONG ISLAND SOUND AND BLOCK ISLAND SOUND

TIDAL CURRENT CHARTS

Seventh Edition 1979

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
National Ocean Survey
Rockville, Md. 20852



U.S. COAST GUARD

TIDAL CURRENT CHARTS
LONG ISLAND SOUND AND BLOCK ISLAND SOUND
SEVENTH EDITION 1979

These charts supersedes both the "Tidal Current Charts, Long Island Sound and Block Island Sound," Fifth Edition 1973; and "Tidal Current Charts, Block Island Sound and Eastern Long Island Sound," First Edition 1971.

These charts differ from the superseded hourly spaced charts. These charts are computed on an equal interval basis for each flood and ebb phase.

These tidal current charts present a comprehensive view of the speed and direction of the current in Block Island Sound and Long Island Sound throughout the tidal cycle. The arrows show the true direction of the current. The figures give the speed in knots at average spring speeds, that is, the greater flood and greater ebb speeds at the time of new or full Moon when the currents are stronger than average. When the current is less than 0.1 knot it is designated as weak. The data depicts the average speed and direction at the exact location of the station. Inference of the current between stations must be done according to the user's experience and local knowledge.

NONTIDAL CURRENTS. These charts depict the flow of the tidal currents under normal weather conditions. Strong winds and freshets, however, bring about nontidal currents which may modify considerably the speeds and directions shown on the charts.

USE OF CHARTS. The charts which may be used for any year, are referred to the times of slack waters at The Race. Daily predictions for that station are included in the "Tidal Current Tables, Atlantic Coast of North America," published annually by the National Ocean Survey.

There are 13 charts: 6 are referred to "Slack: flood begins" (SFB) and 7 are referred to "Slack: ebb begins" (SEB). These charts are computed on an equal interval basis for each flood and ebb. The chart to be used for any desired time is determined in the following manner. For the six equal interval charts referred to "Slack: flood begins" compute as follows: determine the time duration of flood in minutes by computing the time difference between "Slack: flood begins" and "Slack: ebb begins." Divide the time duration by six to determine the time in minutes for each flood interval. Add this time interval consecutively to "Slack: flood begins" to determine the times for each successive interval. The chart to be used for any desired time will be closest to the computed chart time. Compute the chart series referred to "Slack: ebb begins" by dividing the ebb duration by seven and following the above procedure.

The spring speeds shown on the charts must be corrected to the speeds to be expected at the day and hour of their use. The speed of the tidal current varies from day to day principally in accordance with the phase, distance and declination of the Moon. To obtain the speed for any particular day and hour, the speeds indicated on the charts should be modified as follows: obtain from the Tidal Current Tables the predicted speed of the "Maximum Flood" or "Maximum Ebb" at The Race, following the slack to which the appropriate chart is referred. With this predicted speed enter the following table and obtain the corresponding correction factor. The speed of the current for the particular day and hour is then obtained by multiplying the speed indicated on the chart by this factor.

Factors for correcting speeds

Maximum Flood		Maximum Ebb	
Predicted speed (knots) at The Race	Factor to apply to speed on charts	Predicted speed (knots) at The Race	Factor to apply to speed on charts
1.2 to 1.5 multiply by-------	0.4	1.8 to 2.1 multiply by-------	0.5
1.6 to 1.8 multiply by-------	0.5	2.2 to 2.5 multiply by-------	0.6
1.9 to 2.2 multiply by-------	0.6	2.6 to 2.9 multiply by-------	0.7
2.3 to 2.5 multiply by-------	0.7	3.0 to 3.3 multiply by-------	0.8
2.6 to 2.8 multiply by-------	0.8	3.4 to 3.7 multiply by-------	0.9
2.9 to 3.2 multiply by-------	0.9	3.8 to 4.1 multiply by-------	1.0
3.3 to 3.5 multiply by-------	1.0	4.2 to 4.5 multiply by-------	1.1
3.6 to 3.9 multiply by-------	1.1	4.6 to 4.9 multiply by-------	1.2
4.0 to 4.2 multiply by-------	1.2	5.0 to 5.3 multiply by-------	1.3
4.3 to 4.5 multiply by-------	1.3		

DAY	SLACK WATER TIME	MAXIMUM CURRENT TIME	MAXIMUM CURRENT VEL.
	H.M.	H.M.	KNOTS
4 F	0011	0303	2.2F
	0552	0920	2.9E
	1246	1547	2.3F
	1833	2149	2.7E
5 SA	0112	0410	2.2F
	0652	1015	2.9E
	1341	1644	2.4F
	1929	2245	2.8E
6 SU	0207	0509	2.3F
	0748	1106	3.0E
	1431	1729	2.5F
	2018	2334	3.0E

The speed factor 0.6 applies to all six charts starting with SFB @ 00^h11^m .

EXAMPLE. Suppose the direction and speed of the current in Plum Gut (between Plum Island and Orient Point) at 10′ depth, is desired for 03^h25^m a.m. (EST) on the fourth day of the month when the predictions for the Race are given in the Tidal Current Tables, Atlantic Coast of North America as shown above.

PROCEDURE. The time of 03^h25^m a.m. (EST) occurs during the flood phase at the reference station. The duration of this flood phase is SEB @ 05^h52^m SFB @ $00^h11^m = 5^h41^m$ or 341 minutes. Divide 341 minutes by 6 to determine the time duration of each interval (56.83 minutes). Add this 56.83 minutes consecutively to each interval starting with: SFB @ 00^h11^m.

SFB @ 00^h11^m
SFB + 1 @ 01^h08^m
SFB + 2 @ 02^h05^m
SFB + 3 @ 03^h01^m
SFB + 4 @ 03^h58^m
SFB + 5 @ 04^h55^m

The desired time of 03^h25^m a.m. (EST) is nearest to the time of SFB + 3 @ 03^h01^m. Use chart SFB + 3 and multiply all speeds on the chart by the speed correction factor. For a predicted maximum flood @ 03^h03^m of 2.2 knots the table gives a correction factor of 0.6. The speed at Plum Gut is 2.7 knots x 0.6 = 1.6 knots.

INTERPOLATION. The time of 03^h25^m a.m. (EST) is approximately midway between SFB + 3 @ $03^h01^m = 1.6$ knots and SFB + 4 @ 03^h58^m 1.4 x 0.6=.8 knots. The interpolated speed at $03^h25^m = 1.3$ knots.

NOTE: The name designation for each equal interval chart has been shortened to allow for inclusion in the Tidal Current Charts and Tidal Current Chart Diagrams. The six equal interval charts referred to the flood phase at the reference station (The Race) are SFB, SFB + 1, SFB + 2, SFB + 3, SFB + 4, and SFB + 5. The seven equal interval charts referred to the ebb phase are: SEB, SEB + 1, SEB + 2, SEB + 3, SEB + 4, SEB + 5, and SEB + 6.

INDEX CHARTS. These station index charts on pages 30 and 31 shows the location of the tidal current stations and the depths of the meters. Only the top two depths are depicted on the tidal current charts. Data for the bottom depths are included on the back cover.

All persons using these charts are invited to send information or suggestions for increasing their usefulness to the:

Director, National Ocean Survey
6001 Executive Blvd.
Rockville, Md. 20852

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A-5510

TIDAL CURRENT DIAGRAM
FOR
LONG ISLAND SOUND AND BLOCK ISLAND SOUND TIDAL CURRENT CHARTS

The following instructions to compute an equal interval tidal current chart diagram must refer to the times of slack water at The Race. Daily predictions for The Race are included in the "Tidal Current Tables, Atlantic Coast of North America," published annually by the National Ocean Survey, NOAA.

INSTRUCTIONS TO CONSTRUCT TIDAL CURRENT DIAGRAMS. Computations may easily be made for consecutive days in advance of their use.

DAY	SLACK WATER TIME H.M.	MAXIMUM CURRENT TIME H.M.	MAXIMUM CURRENT VEL. KNOTS
4 F	0011	0303	2.2F
	0552	0920	2.9E
	1246	1547	2.3F
	1833	2149	2.7E
5 SA	0112	0410	2.2F
	0652	1015	2.9E
	1341	1644	2.4F
	1929	2245	2.8E
6 SU	0207	0509	2.3F
	0748	1106	3.0E
	1431	1729	2.5F
	2018	2334	3.0E

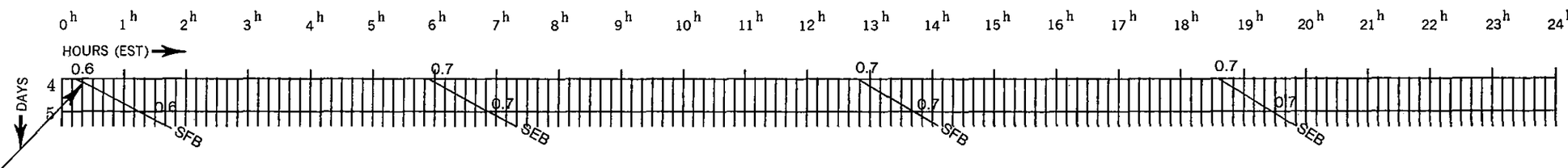
Factors for correcting speeds

MAXIMUM FLOOD

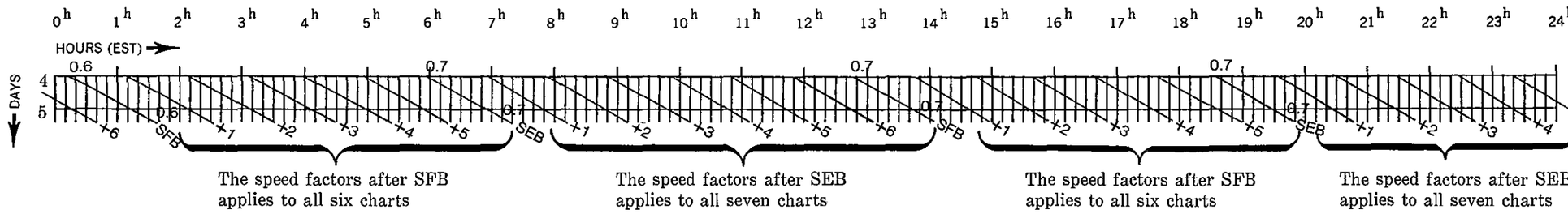
Predicted speed (knots) at The Race	Factor to apply to speed on charts
1.2 to 1.5 multiply by-------	0.4
1.6 to 1.8 multiply by-------	0.5
1.9 to 2.2 multiply by-------	0.6
2.3 to 2.5 multiply by-------	0.7
2.6 to 2.8 multiply by-------	0.8
2.9 to 3.2 multiply by-------	0.9
3.3 to 3.5 multiply by-------	1.0
3.6 to 3.9 multiply by-------	1.1
4.0 to 4.2 multiply by-------	1.2
4.3 to 4.5 multiply by-------	1.3

MAXIMUM EBB

Predicted speed (knots) at The Race	Factor to apply to speed on charts
1.8 to 2.1 multiply by-------	0.5
2.2 to 2.5 multiply by-------	0.6
2.6 to 2.9 multiply by-------	0.7
3.0 to 3.3 multiply by-------	0.8
3.4 to 3.7 multiply by-------	0.9
3.8 to 4.1 multiply by-------	1.0
4.2 to 4.5 multiply by-------	1.1
4.6 to 4.9 multiply by-------	1.2
5.0 to 5.3 multiply by-------	1.3



Step 1: (a) Plot times of slack waters using current predictions for The Race.
(b) Convert predicted speeds for floods and ebbs to speed factors and place after proper slacks.
Example: Predicted maximum flood speed @ 03^h03^m is 2.2 knots = speed correction factor 0.6 (place after SFB @ 00^h11^m).
(c) Draw lines connecting all slacks and label.



The speed factors after SFB applies to all six charts

The speed factors after SEB applies to all seven charts

The speed factors after SFB applies to all six charts

The speed factors after SEB applies to all seven charts

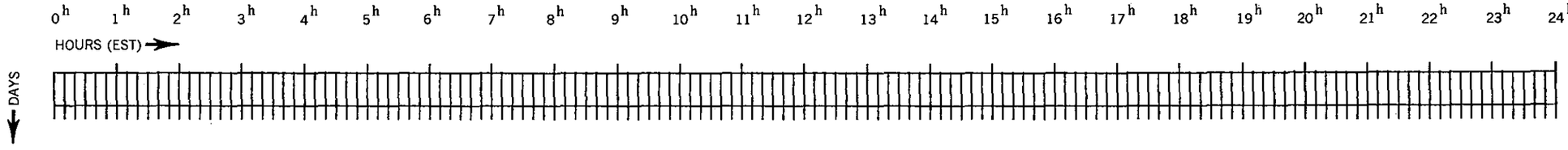
Step 2: (a) Compute equal intervals between slacks in the following manner:
The first flood duration (on the 4th) is computed by determining the difference between slack; flood begins @ 00^h11^m and slack: ebb begins @ $05^h52^m = 5^h41^m$ (341 minutes). Divide 341 minutes by 6 to determine the time duration for each equal intervals, (56.83 minutes). Add this 56.83 minutes consecutively to each interval starting with SFB @ 00^h11^m
The succeeding intervals occurs at: SFB + 1 @ 01^h08^m, SFB + 2 @ 02^h05^m, SFB +3 @ 03^h01^m, SFB +4 @ 03^h58^m, and SFB + 5 @ 04^h55^m.
(b) Compute equal intervals for all phases and plot.
(c) Draw lines connecting like intervals and label.

INSTRUCTION IN USE OF TIDAL CURRENT DIAGRAMS.

EXAMPLE: Determine chart to use at 03^h25^m (EST) on the 4th day of the month using the above diagram.

PROCEDURE: The diagram in step 2 indicates that the chart SFB + 3 is the chart to use. Apply the speed correction factor 0.6 (the speed factor appears after the slack line at 00^h11^m) to all speeds on the chart.

Graph for computing tidal current diagram (NOTE: It is suggested that a transparent overlay be used over the graph to permit repeated use).



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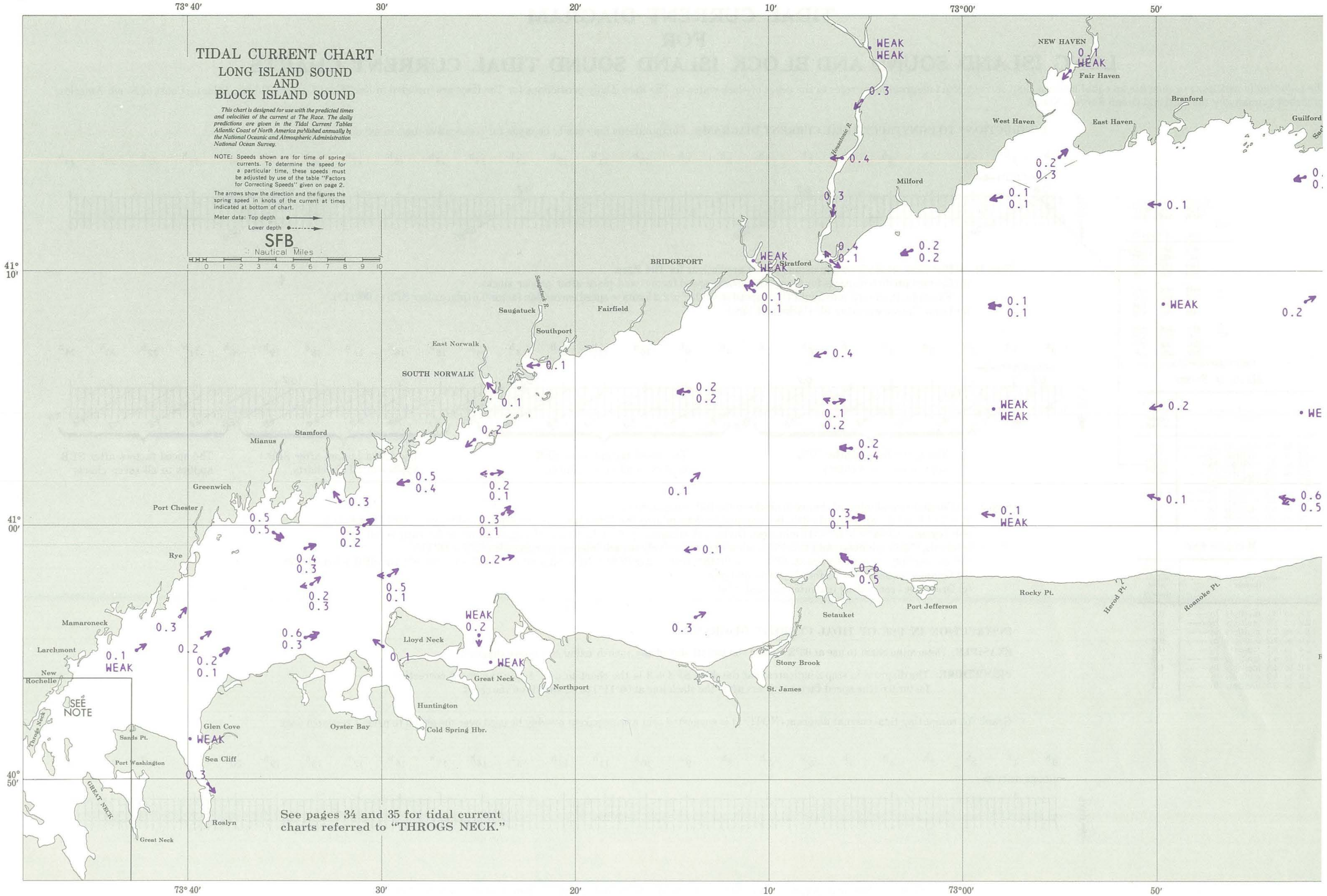
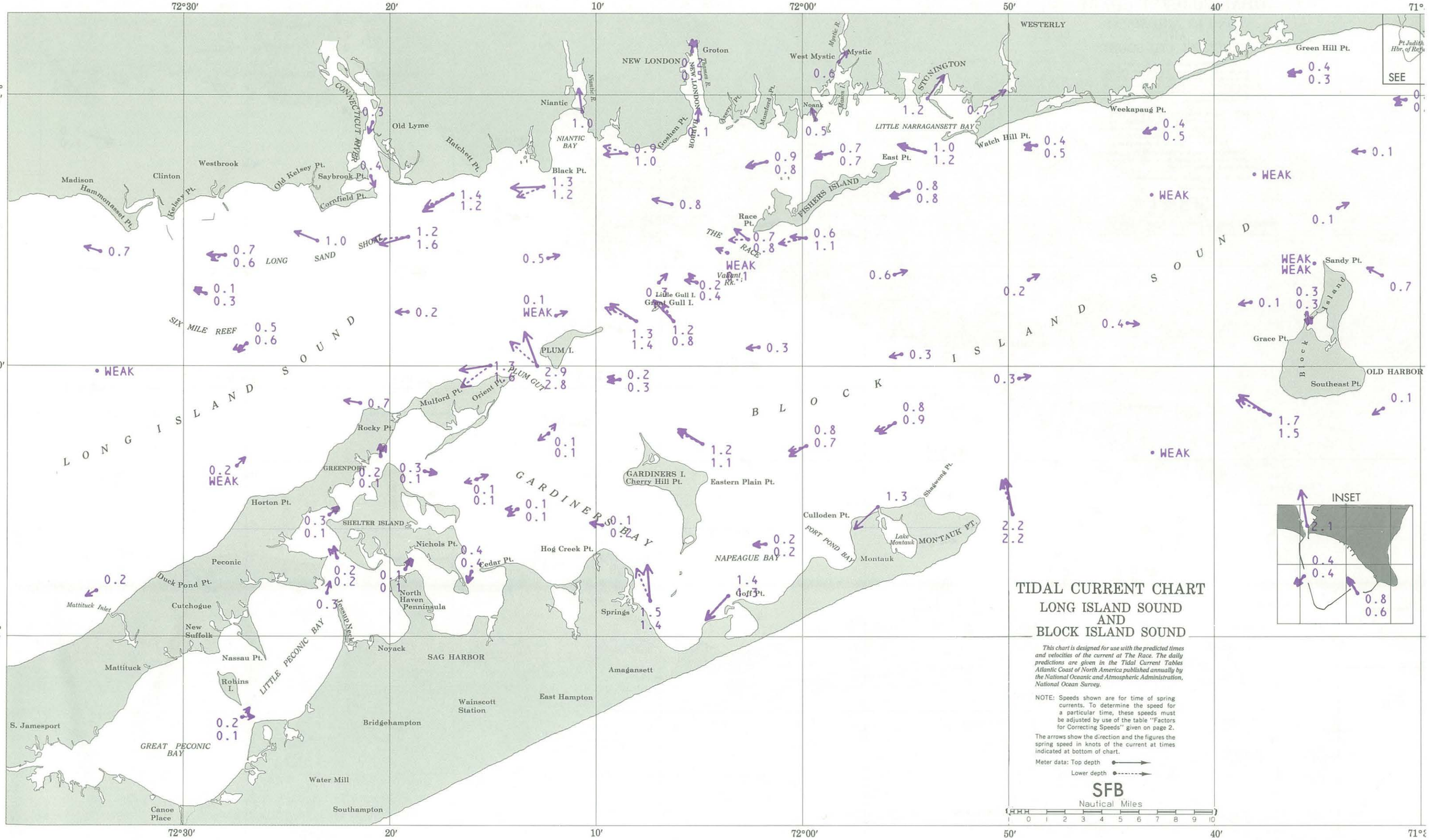

TIDAL CURRENT CHART
LONG ISLAND SOUND
AND
BLOCK ISLAND SOUND
This chart is designed for use with the predicted times and velocities of the current at The Race. The daily predictions are given in the Tidal Current Tables Atlantic Coast of North America published annually by the National Oceanic and Atmospheric Administration National Ocean Survey.
NOTE: Speeds shown are for time of spring currents. To determine the speed for a particular time, these speeds must be adjusted by use of the table "Factors for Correcting Speeds" given on page 2.
The arrows show the direction and the figures the spring speed in knots of the current at times indicated at bottom of chart.
Meter data: Top depth
Lower depth
SFB
Nautical Miles
73° 40′
30′
20′
10′
73°00′
50′
41° 10′
41° 00′
40° 50′
NEW HAVEN
Fair Haven
West Haven
East Haven
Branford
Guilford
Milford
Housatonic R.
BRIDGEPORT
Stratford
Saugatuck R.
Saugatuck
Fairfield
Southport
East Norwalk
SOUTH NORWALK
Stamford
Mianus
Greenwich
Port Chester
Rye
Mamaroneck
Larchmont
New Rochelle
SEE NOTE
Throgs Neck
Sands Pt.
Port Washington
GREAT NECK
Great Neck
Glen Cove
Sea Cliff
Roslyn
Oyster Bay
Lloyd Neck
Huntington
Cold Spring Hbr.
Great Neck
Northport
St. James
Stony Brook
Setauket
Port Jefferson
Rocky Pt.
Herod Pt.
Roanoke Pt.
See pages 34 and 35 for tidal current charts referred to "THROGS NECK."



TIDAL CURRENT CHART

LONG ISLAND SOUND AND BLOCK ISLAND SOUND

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The arrows show the direction and the figures the spring speed in knots of the current at times indicated at bottom of chart.

Meter data: Top depth ——●——→

Lower depth ——●- - - →

SFB

Nautical Miles

0 1 2 3 4 5 6 7 8 9 10

SFB

CUT ON LINE

TIDAL CURRENT CHART
LONG ISLAND SOUND AND BLOCK ISLAND SOUND

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The arrows show the direction and the figures the spring speed in knots of the current at times indicated at bottom of chart.

Meter data: Top depth ●——→

Lower depth ●- - - -→

SFB+1

Nautical Miles

0 1 2 3 4 5 6 7 8 9 10

73° 40′ 30′ 20′ 10′ 73°00′ 50′

41° 10′

41° 00′

40° 50′

NEW HAVEN
Fair Haven
West Haven
East Haven
Branford
Guilford
Milford
Housatonic R.
BRIDGEPORT
Stratford
Saugatuck R.
Saugatuck
Southport
Fairfield
East Norwalk
SOUTH NORWALK
Stamford
Mianus
Greenwich
Port Chester
Rye
Mamaroneck
Larchmont
New Rochelle
SEE NOTE
Throgs Neck
Sands Pt.
Port Washington
GREAT NECK
Great Neck
Roslyn
Glen Cove
Sea Cliff
Oyster Bay
Lloyd Neck
Huntington
Cold Spring Hbr.
Great Neck
Northport
Stony Brook
St. James
Setauket
Port Jefferson
Rocky Pt.
Herod Pt.
Roanoke Pt.

See pages 34 and 35 for tidal current charts referred to "THROGS NECK."

TIDAL CURRENT CHART

LONG ISLAND SOUND AND BLOCK ISLAND SOUND

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The arrows show the direction and the figures the spring speed in knots of the current at times indicated at bottom of chart.

Meter data: Top depth ●——→

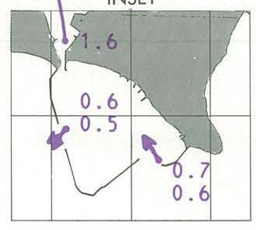
Lower depth ●- - - -→

SFB+1

Nautical Miles

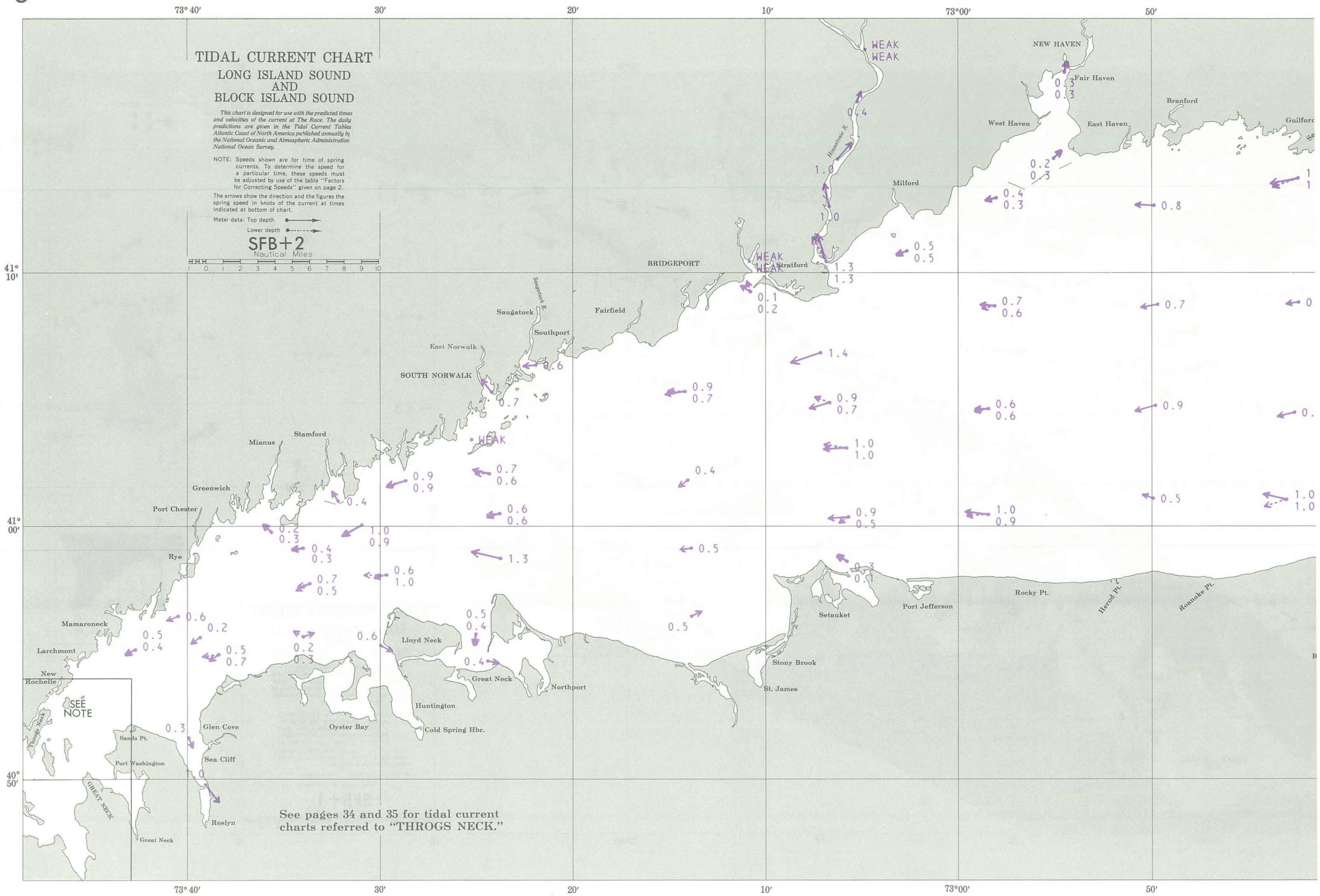
0 1 2 3 4 5 6 7 8 9 10

INSET



SFB+1

CUT ON LINE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AND
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The arrows show the direction and the figures the spring speed in knots of the current at times indicated at bottom of chart.
Meter data: Top depth
Lower depth
SFB+2
Nautical Miles
1 0 1 2 3 4 5 6 7 8 9 10
73° 40′
30′
20′
10′
73°00′
50′
41° 10′
41° 00′
40° 50′
NEW HAVEN
Fair Haven
West Haven
East Haven
Branford
Guilford
Milford
Housatonic R.
WEAK
WEAK
BRIDGEPORT
Stratford
Fairfield
Saugatuck
Saugatuck R.
Southport
East Norwalk
SOUTH NORWALK
Stamford
Mianus
Greenwich
Port Chester
Rye
Mamaroneck
Larchmont
New Rochelle
SEE NOTE
Throgs Neck
Sands Pt.
Port Washington
GREAT NECK
Great Neck
Glen Cove
Sea Cliff
Roslyn
Oyster Bay
Lloyd Neck
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Great Neck
Northport
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Rocky Pt.
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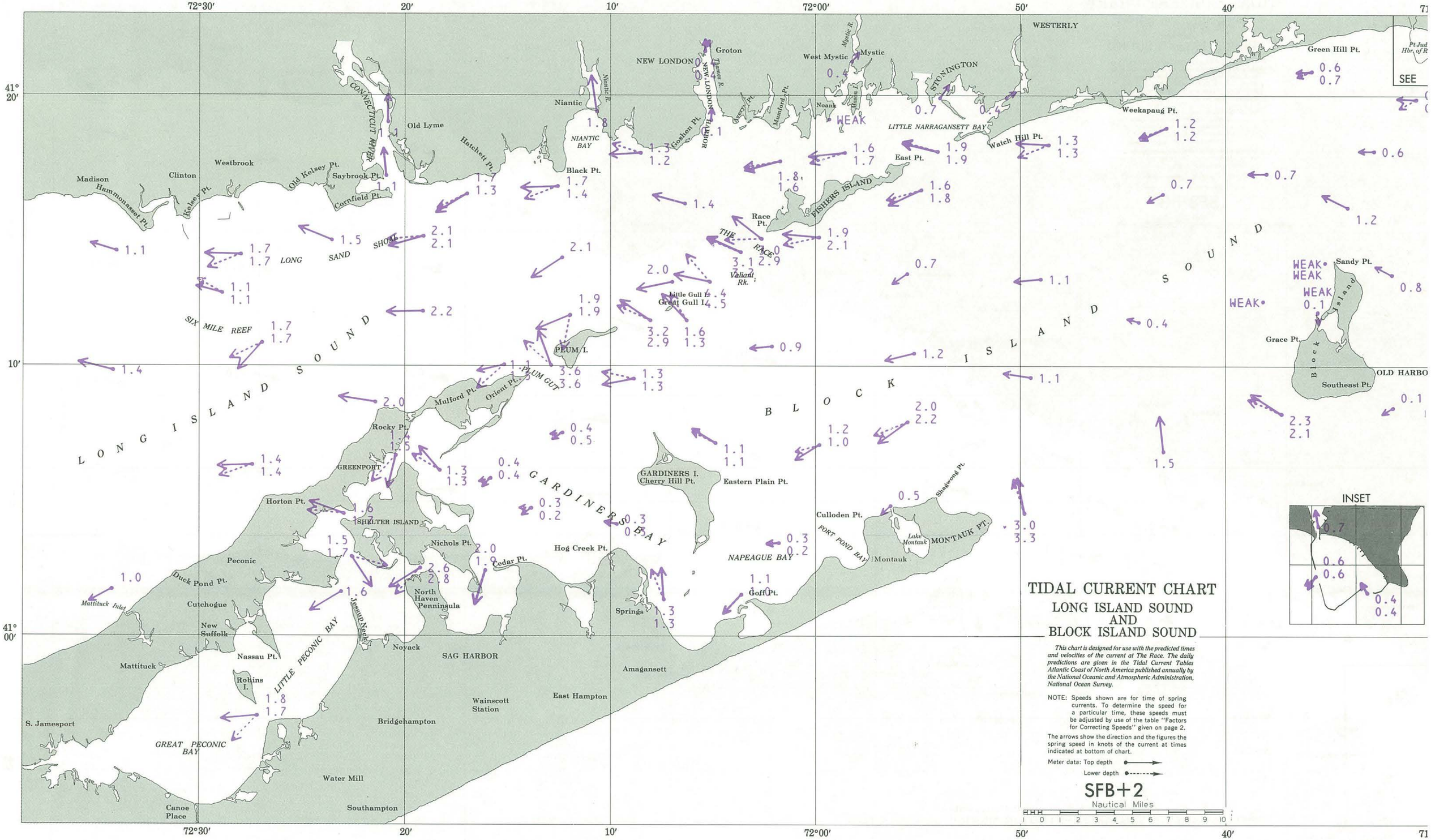
Roanoke Pt.
See pages 34 and 35 for tidal current charts referred to "THROGS NECK."



TIDAL CURRENT CHART
LONG ISLAND SOUND AND BLOCK ISLAND SOUND

This chart is designed for use with the predicted times and velocities of the current at The Race. The daily predictions are given in the Tidal Current Tables Atlantic Coast of North America published annually by the National Oceanic and Atmospheric Administration, National Ocean Survey.

NOTE: Speeds shown are for time of spring currents. To determine the speed for a particular time, these speeds must be adjusted by use of the table "Factors for Correcting Speeds" given on page 2.

The arrows show the direction and the figures the spring speed in knots of the current at times indicated at bottom of chart.

Meter data: Top depth →
Lower depth ⇢

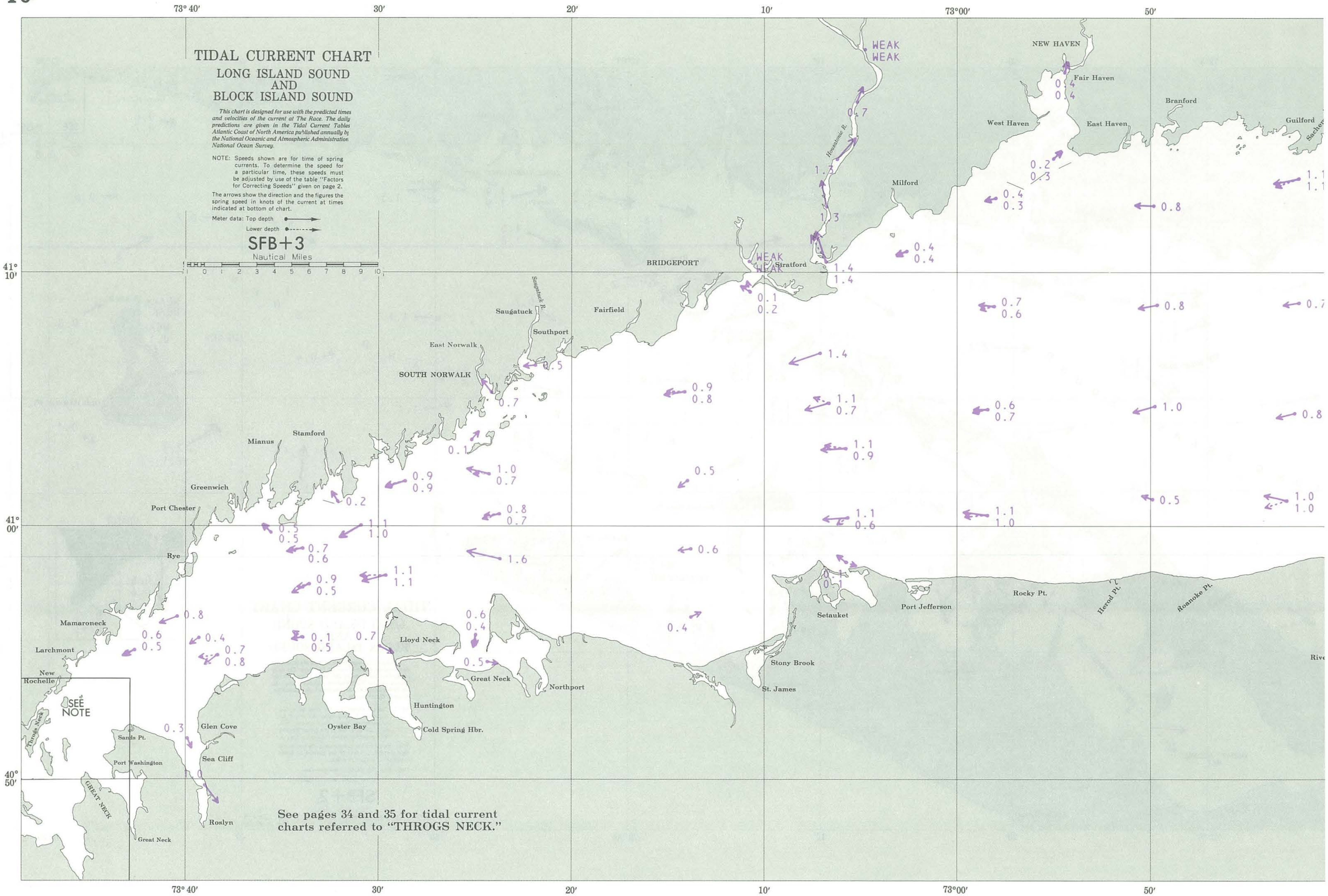
SFB+2

Nautical Miles

1 0 1 2 3 4 5 6 7 8 9 10

SFB+2

CUT ON LINE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The arrows show the direction and the figures the spring speed in knots of the current at times indicated at bottom of chart.
Meter data: Top depth
Lower depth
SFB+3
Nautical Miles
1 0 1 2 3 4 5 6 7 8 9 10
73° 40′
30′
20′
10′
73°00′
50′
41° 10′
41° 00′
40° 50′
NEW HAVEN
Fair Haven
West Haven
East Haven
Branford
Guilford
Milford
BRIDGEPORT
Stratford
Housatonic R.
Fairfield
Saugatuck
Saugatuck R.
Southport
East Norwalk
SOUTH NORWALK
Stamford
Mianus
Greenwich
Port Chester
Rye
Mamaroneck
Larchmont
New Rochelle
SEE NOTE
Throgs Neck
Sands Pt.
Port Washington
GREAT NECK
Great Neck
Glen Cove
Sea Cliff
Roslyn
Oyster Bay
Huntington
Cold Spring Hbr.
Lloyd Neck
Great Neck
Northport
St. James
Stony Brook
Setauket
Port Jefferson
Rocky Pt.
Herod Pt.
Roanoke Pt.
WEAK
WEAK
0.7
1.3
1.3
1.4
1.4
WEAK
WEAK
0.1
0.2
0.4
0.4
0.4
0.4
0.2
0.3
0.4
0.3
0.8
1.1
1.1
0.7
0.6
0.8
0.7
1.4
0.5
0.9
0.8
1.1
0.7
0.6
0.7
1.0
0.8
0.7
1.1
0.9
0.1
1.0
0.7
0.9
0.9
0.5
0.2
0.8
0.7
1.1
0.6
1.1
1.0
0.5
1.0
1.0
1.1
1.0
0.5
0.5
0.7
0.6
1.6
0.6
0.1
0.1
0.9
0.5
1.1
1.1
0.8
0.6
0.5
0.4
0.7
0.8
0.1
0.5
0.7
0.6
0.4
0.4
0.5
0.3
1.0
See pages 34 and 35 for tidal current charts referred to "THROGS NECK."

TIDAL CURRENT CHART
LONG ISLAND SOUND AND BLOCK ISLAND SOUND

This chart is designed for use with the predicted times and velocities of the current at The Race. The daily predictions are given in the Tidal Current Tables Atlantic Coast of North America published annually by the National Oceanic and Atmospheric Administration, National Ocean Survey.

NOTE: Speeds shown are for time of spring currents. To determine the speed for a particular time, these speeds must be adjusted by use of the table "Factors for Correcting Speeds" given on page 2.

The arrows show the direction and the figures the spring speed in knots of the current at times indicated at bottom of chart.

Meter data: Top depth ●——→

Lower depth ●- - - -→

SFB+3

Nautical Miles

1 0 1 2 3 4 5 6 7 8 9 10

INSET

SEE Pt Judith Hbr. of Refuge

SFB+3 CUT ON LINE

TIDAL CURRENT CHART
LONG ISLAND SOUND AND BLOCK ISLAND SOUND

This chart is designed for use with the predicted times and velocities of the current at The Race. The daily predictions are given in the Tidal Current Tables Atlantic Coast of North America published annually by the National Oceanic and Atmospheric Administration National Ocean Survey.

NOTE: Speeds shown are for time of spring currents. To determine the speed for a particular time, these speeds must be adjusted by use of the table "Factors for Correcting Speeds" given on page 2.

The arrows show the direction and the figures the spring speed in knots of the current at times indicated at bottom of chart.

Meter data: Top depth ●——→
Lower depth ●- - - -→

SFB+4

Nautical Miles
1 0 1 2 3 4 5 6 7 8 9 10

73° 40′ 30′ 20′ 10′ 73°00′ 50′

41° 10′
41° 00′
40° 50′

NEW HAVEN
Fair Haven
Branford
West Haven
East Haven
Guilford
Milford
BRIDGEPORT
Stratford
Saugatuck
Saugatuck R.
Fairfield
Southport
East Norwalk
SOUTH NORWALK
Housatonic R.
Mianus
Stamford
Greenwich
Port Chester
Rye
Mamaroneck
Larchmont
New Rochelle
Throgs Neck
Sands Pt.
Port Washington
Sea Cliff
GREAT NECK
Great Neck
Roslyn
Glen Cove
Oyster Bay
Lloyd Neck
Huntington
Cold Spring Hbr.
Great Neck
Northport
Stony Brook
St. James
Setauket
Port Jefferson
Rocky Pt.
Herod Pt.
Roanoke Pt.

WEAK WEAK
0.7
1.1
1.1
0.2 0.2
0.3 0.2
0.7
0.8 0.7
0.3 0.3
1.2 1.2
WEAK WEAK
0.1 0.1
0.6 0.5
0.7
0.6
1.1
0.8 0.7
1.0 0.6
0.5 0.6
0.8
0.7
0.9 0.6
0.4
0.3
0.7 0.8
0.3
1.0 0.7
0.8 0.8
0.1
1.0 0.9
0.8 0.6
0.9 0.4
0.9 0.8
0.7 0.6
0.8 0.6
1.4
0.4
0.1 0.2
0.8 0.6
0.8 0.4
1.1 1.0
0.3
0.8 0.4
0.6 0.4
0.5 0.6
0.6
0.5 0.4
0.7 0.8
0.4
0.3
0.4

SEE NOTE

See pages 34 and 35 for tidal current charts referred to "THROGS NECK."

TIDAL CURRENT CHART
LONG ISLAND SOUND AND BLOCK ISLAND SOUND

This chart is designed for use with the predicted times and velocities of the current at The Race. The daily predictions are given in the Tidal Current Tables Atlantic Coast of North America published annually by the National Oceanic and Atmospheric Administration, National Ocean Survey.

NOTE: Speeds shown are for time of spring currents. To determine the speed for a particular time, these speeds must be adjusted by use of the table "Factors for Correcting Speeds given on page 2.

The arrows show the direction and the figures the spring speed in knots of the current at times indicated at bottom of chart.

Meter data: Top depth →
Lower depth ⇢

SFB+4

Nautical Miles

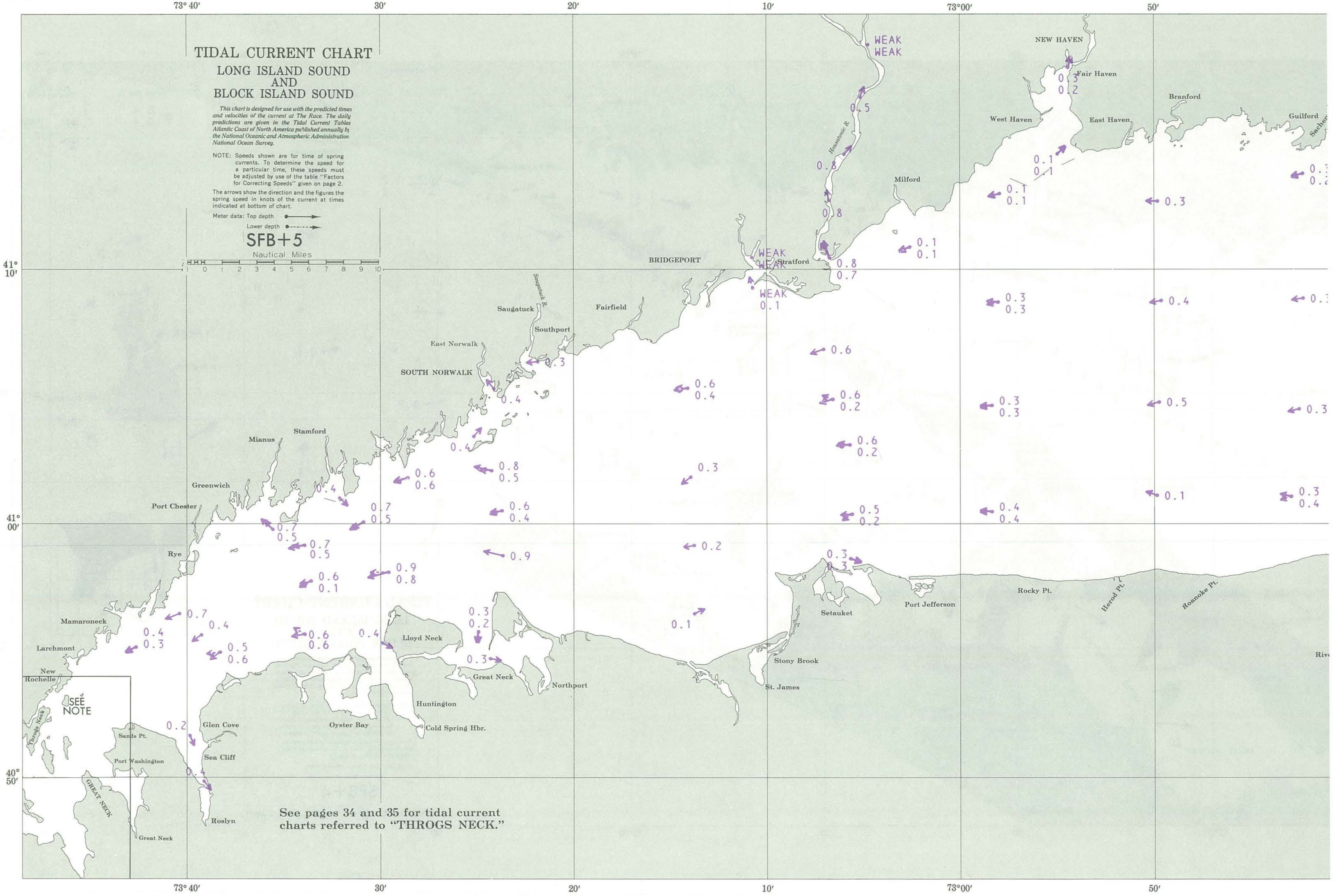
0 1 2 3 4 5 6 7 8 9 10

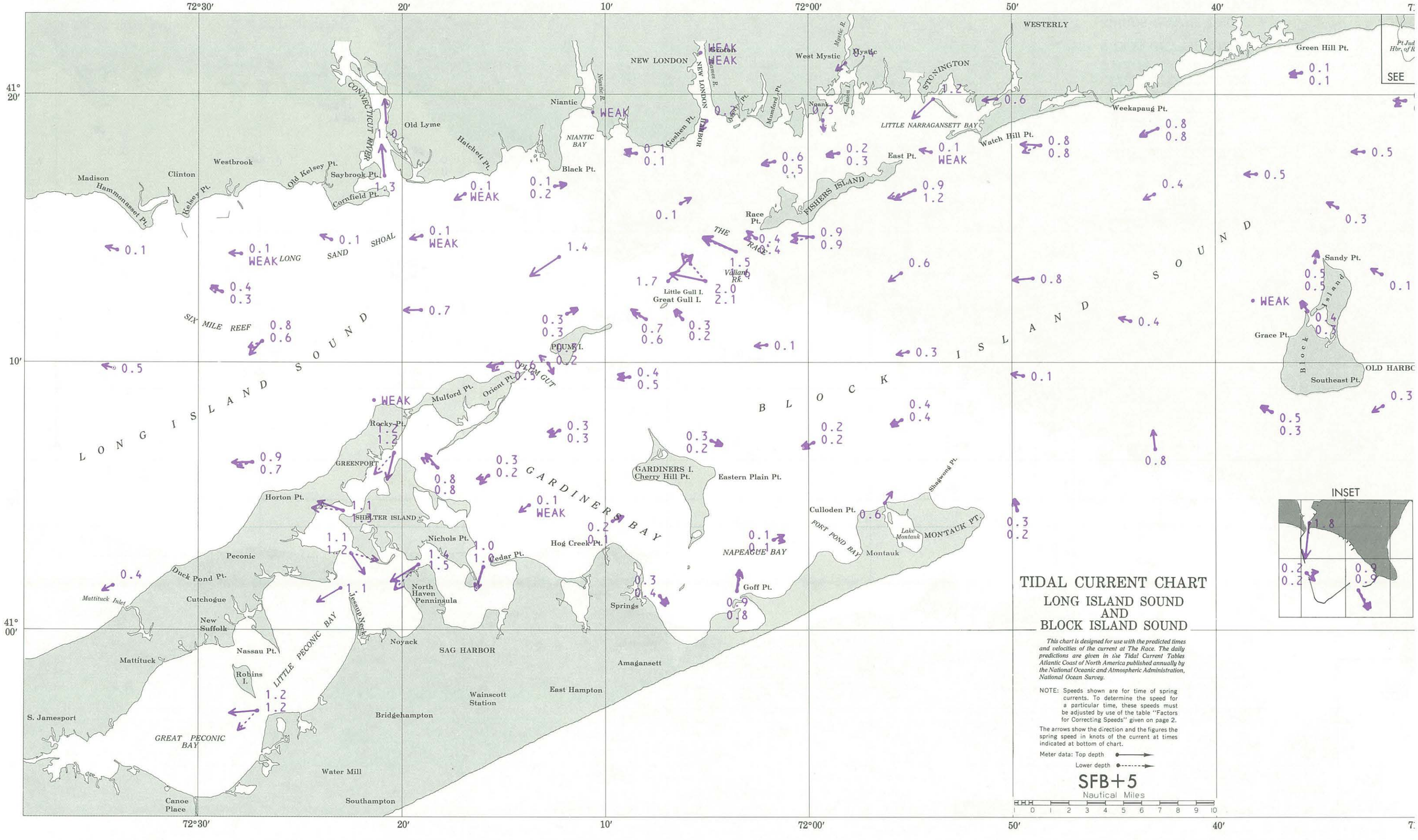
INSET

SEE

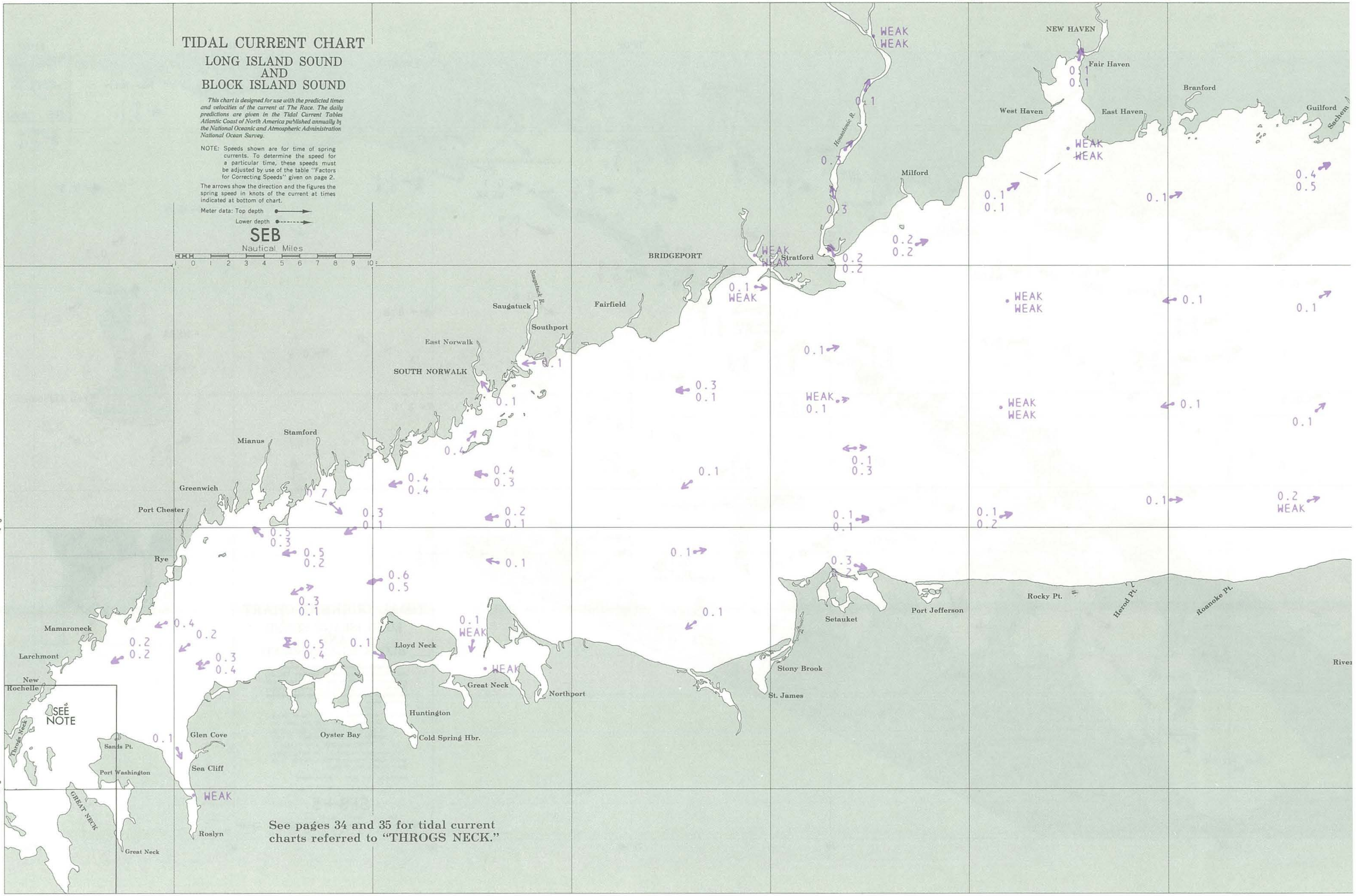
CUT ON LINE

SFB+4

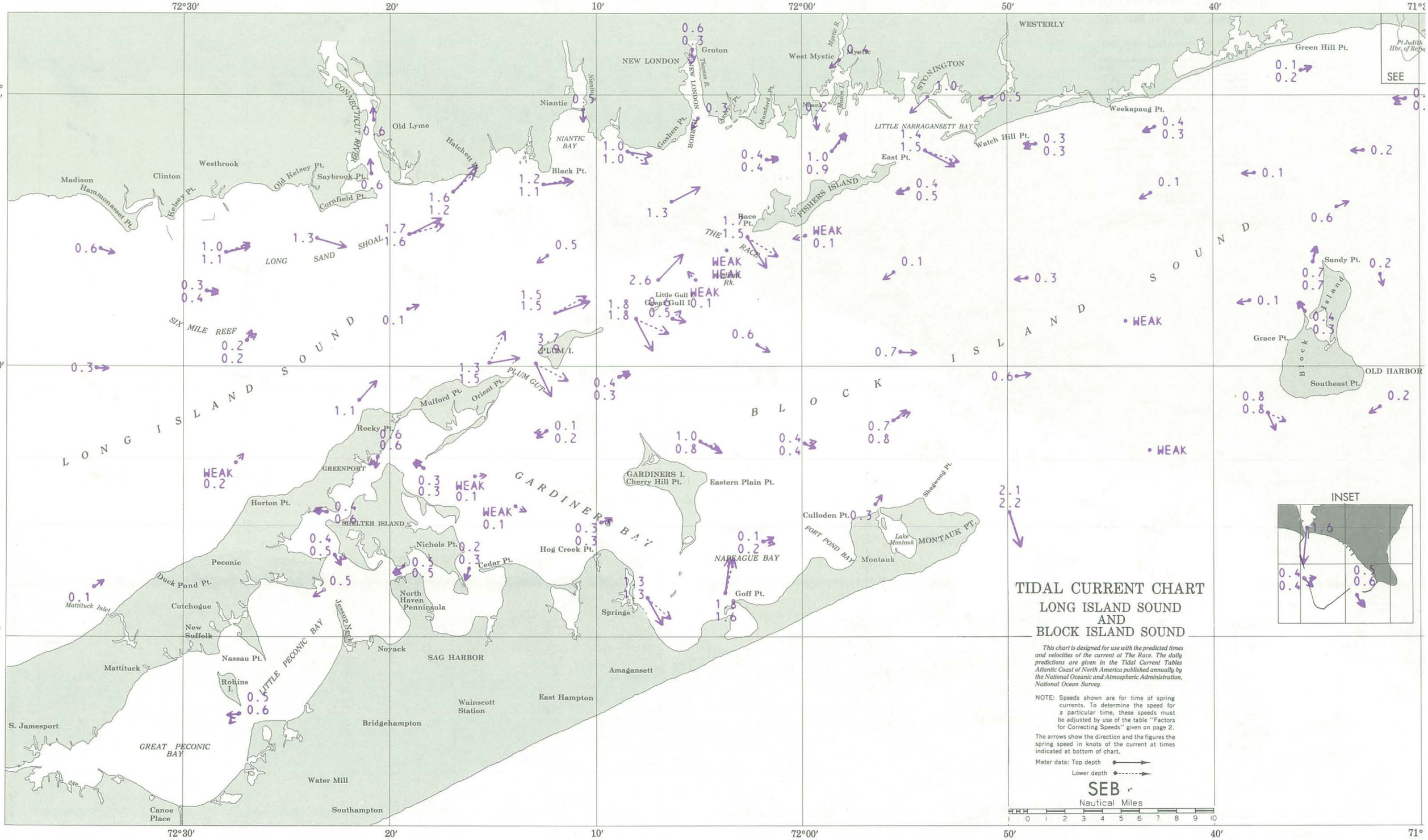

TIDAL CURRENT CHART
LONG ISLAND SOUND
AND
BLOCK ISLAND SOUND
This chart is designed for use with the predicted times and velocities of the current at The Race. The daily predictions are given in the Tidal Current Tables Atlantic Coast of North America published annually by the National Oceanic and Atmospheric Administration National Ocean Survey.
NOTE: Speeds shown are for time of spring currents. To determine the speed for a particular time, these speeds must be adjusted by use of the table "Factors for Correcting Speeds" given on page 2.
The arrows show the direction and the figures the spring speed in knots of the current at times indicated at bottom of chart.
Meter data: Top depth
Lower depth
SFB+5
Nautical Miles
73° 40′
30′
20′
10′
73°00′
50′
41° 10′
41° 00′
40° 50′
NEW HAVEN
Fair Haven
West Haven
East Haven
Branford
Guilford
Milford
Housatonic R.
Stratford
BRIDGEPORT
Fairfield
Saugatuck R.
Saugatuck
Southport
East Norwalk
SOUTH NORWALK
Stamford
Mianus
Greenwich
Port Chester
Rye
Mamaroneck
Larchmont
New Rochelle
Throgs Neck
SEE NOTE
Sands Pt.
Port Washington
GREAT NECK
Great Neck
Glen Cove
Sea Cliff
Roslyn
Oyster Bay
Lloyd Neck
Huntington
Cold Spring Hbr.
Great Neck
Northport
Stony Brook
St. James
Setauket
Port Jefferson
Rocky Pt.
Herod Pt.
Roanoke Pt.
WEAK
See pages 34 and 35 for tidal current charts referred to "THROGS NECK."



SFB+5 CUT ON LINE



See pages 34 and 35 for tidal current charts referred to "THROGS NECK."



TIDAL CURRENT CHART

LONG ISLAND SOUND AND BLOCK ISLAND SOUND

This chart is designed for use with the predicted times and velocities of the current at The Race. The daily predictions are given in the Tidal Current Tables Atlantic Coast of North America published annually by the National Oceanic and Atmospheric Administration, National Ocean Survey.

NOTE: Speeds shown are for time of spring currents. To determine the speed for a particular time, these speeds must be adjusted by use of the table "Factors for Correcting Speeds" given on page 2.

The arrows show the direction and the figures the spring speed in knots of the current at times indicated at bottom of chart.

Meter data: Top depth ——→

Lower depth - - - -→

SEB

Nautical Miles

0 1 2 3 4 5 6 7 8 9 10

SEB | CUT ON LINE

TIDAL CURRENT CHART

LONG ISLAND SOUND AND BLOCK ISLAND SOUND

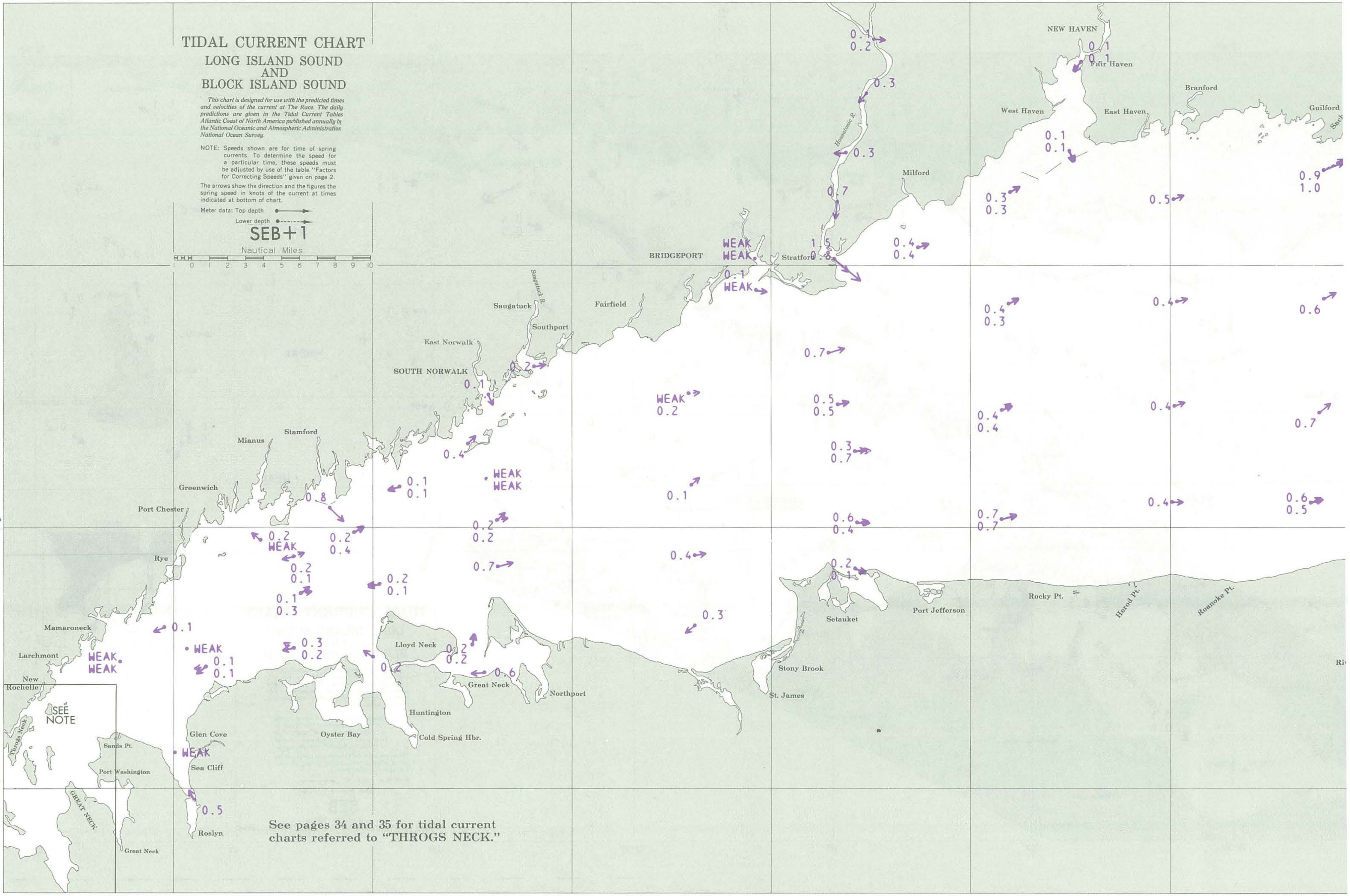
This chart is designed for use with the predicted times and velocities of the current at The Race. The daily predictions are given in the Tidal Current Tables Atlantic Coast of North America published annually by the National Oceanic and Atmospheric Administration National Ocean Survey.

NOTE: Speeds shown are for time of spring currents. To determine the speed for a particular time, these speeds must be adjusted by use of the table "Factors for Correcting Speeds" given on page 2.

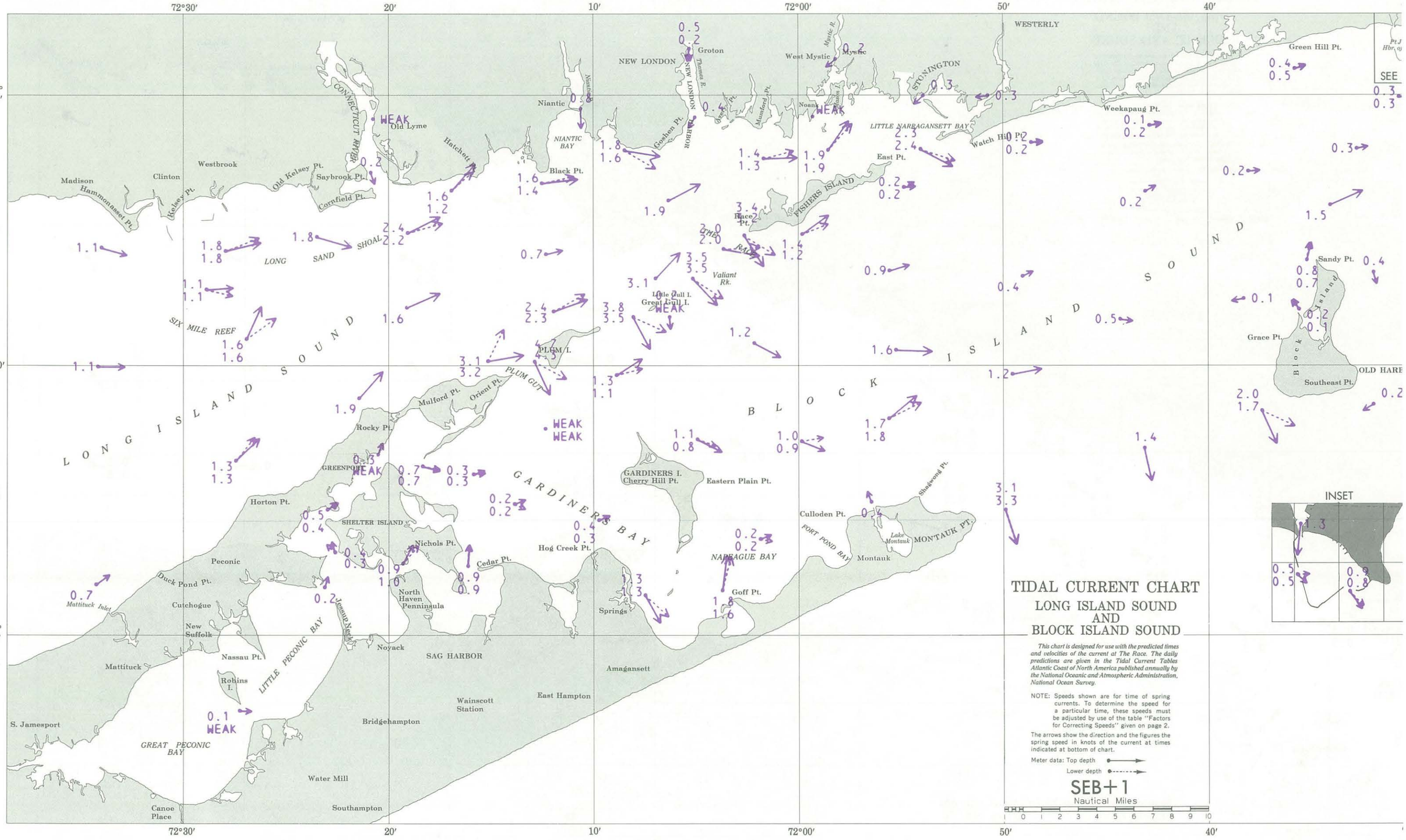
The arrows show the direction and the figures the spring speed in knots of the current at times indicated at bottom of chart.

Meter data: Top depth
Lower depth

SEB+1



See pages 34 and 35 for tidal current charts referred to "THROGS NECK."



SEB+1 | CUT ON LINE

TIDAL CURRENT CHART
LONG ISLAND SOUND AND BLOCK ISLAND SOUND

This chart is designed for use with the predicted times and velocities of the current at The Race. The daily predictions are given in the Tidal Current Tables Atlantic Coast of North America published annually by the National Oceanic and Atmospheric Administration National Ocean Survey.

NOTE: Speeds shown are for time of spring currents. To determine the speed for a particular time, these speeds must be adjusted by use of the table "Factors for Correcting Speeds" given on page 2.

The arrows show the direction and the figures the spring speed in knots of the current at times indicated at bottom of chart.

Meter data: Top depth ——→

Lower depth ·----→

SEB+2

Nautical Miles

1 0 1 2 3 4 5 6 7 8 9 10

73° 40′ 30′ 20′ 10′ 73°00′ 50′

41° 10′

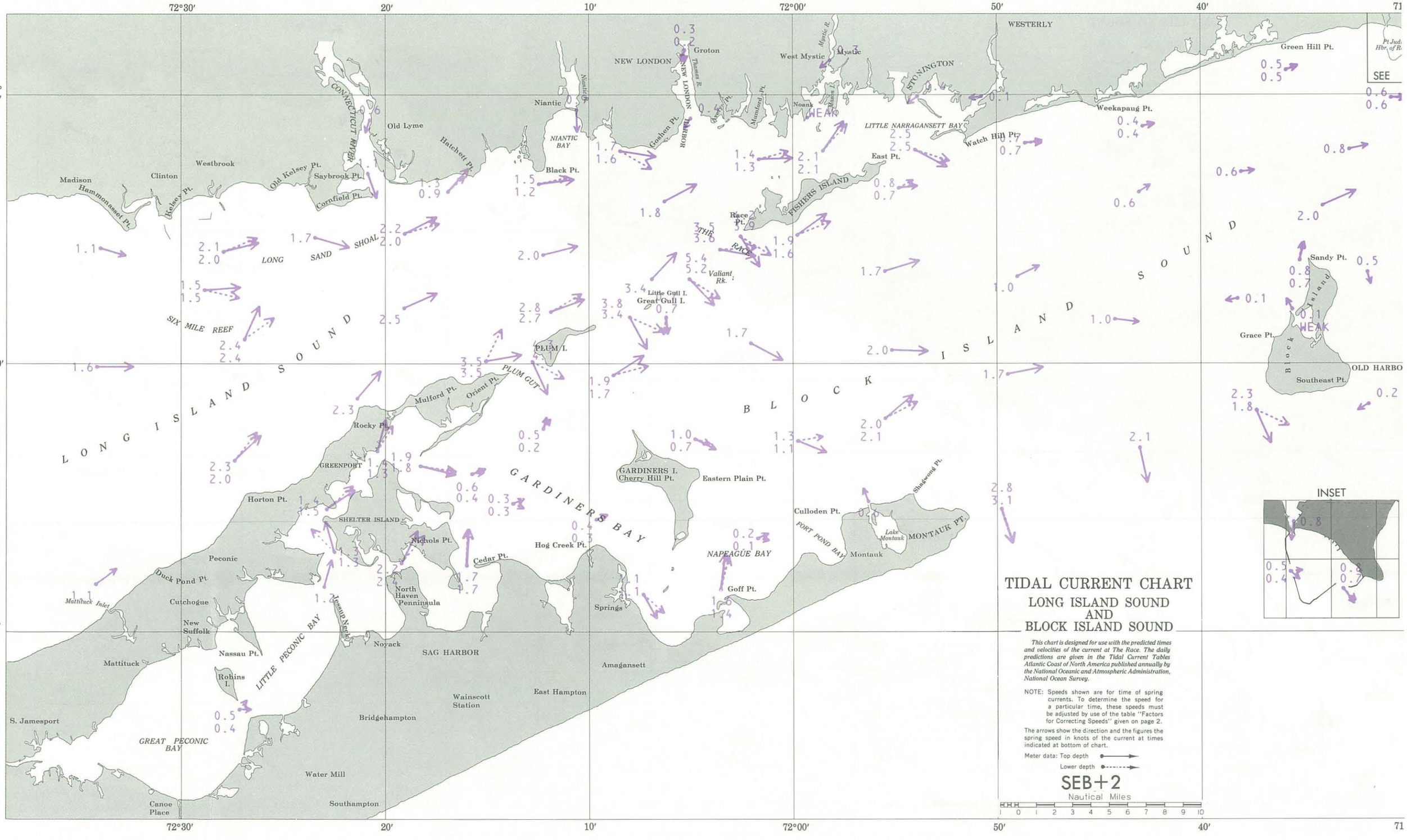
41° 00′

40° 50′

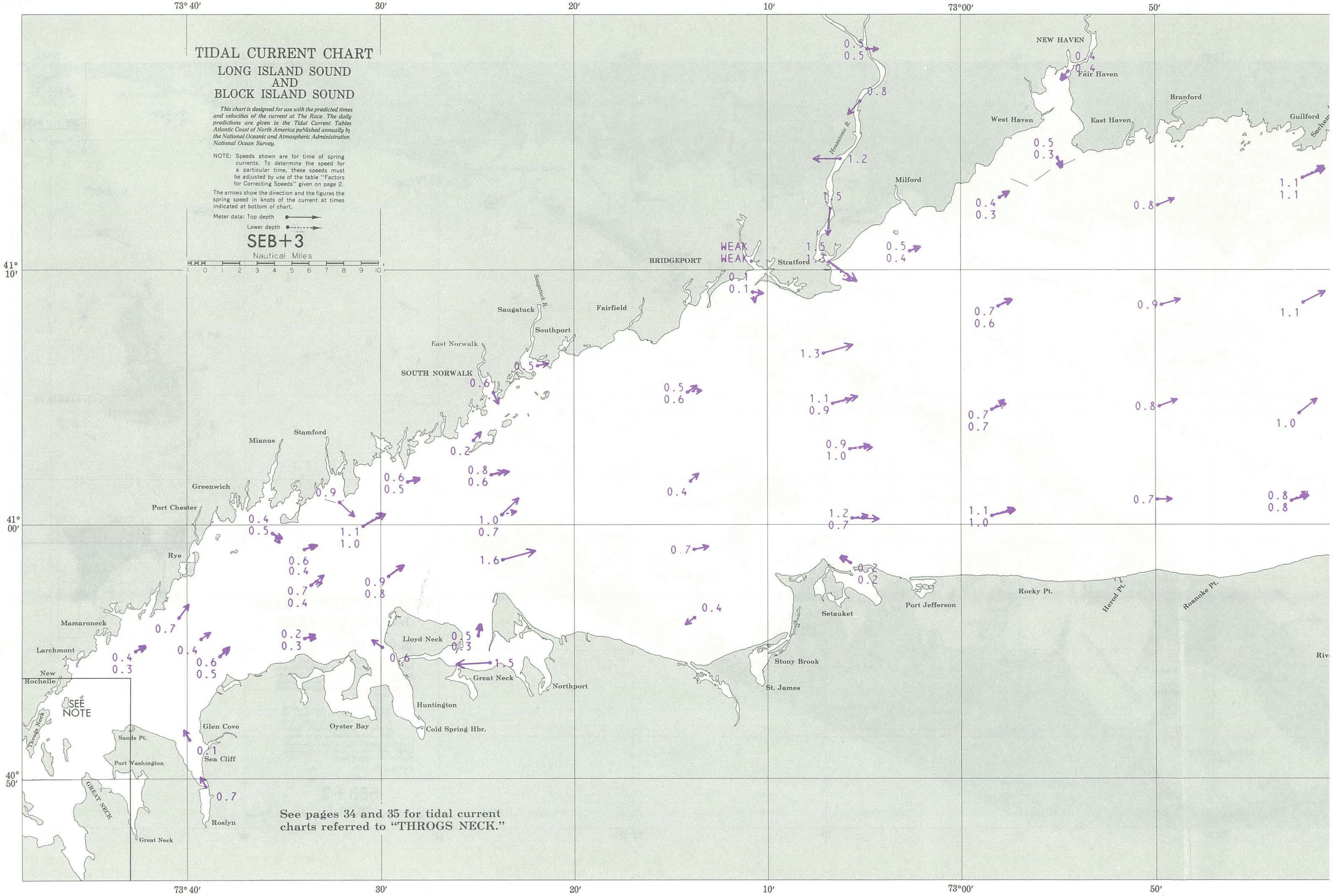
NEW HAVEN
Fair Haven
West Haven
East Haven
Branford
Guilford
Sachem Hd
Milford
Housatonic R.
BRIDGEPORT
Stratford
Saugatuck R.
Saugatuck
Southport
Fairfield
East Norwalk
SOUTH NORWALK
Stamford
Mianus
Greenwich
Port Chester
Rye
Mamaroneck
Larchmont
New Rochelle
SEE NOTE
Throgs Neck
Sands Pt.
Port Washington
GREAT NECK
Great Neck
Glen Cove
Sea Cliff
Roslyn
Oyster Bay
Lloyd Neck
Huntington
Cold Spring Hbr.
Great Neck
Northport
St. James
Stony Brook
Setauket
Port Jefferson
Rocky Pt.
Herod Pt.
Roanoke Pt.
Riverh

WEAK

See pages 34 and 35 for tidal current charts referred to "THROGS NECK."



SEB+2 CUT ON LINE


TIDAL CURRENT CHART
LONG ISLAND SOUND AND BLOCK ISLAND SOUND
This chart is designed for use with the predicted times and velocities of the current at The Race. The daily predictions are given in the Tidal Current Tables Atlantic Coast of North America published annually by the National Oceanic and Atmospheric Administration National Ocean Survey.
NOTE: Speeds shown are for time of spring currents. To determine the speed for a particular time, these speeds must be adjusted by use of the table "Factors for Correcting Speeds" given on page 2.
The arrows show the direction and the figures the spring speed in knots of the current at times indicated at bottom of chart.
Meter data: Top depth
Lower depth
SEB+3
Nautical Miles
0 1 2 3 4 5 6 7 8 9 10
73° 40′
30′
20′
10′
73°00′
50′
41° 10′
41° 00′
40° 50′
NEW HAVEN
Fair Haven
West Haven
East Haven
Branford
Guilford
Milford
Housatonic R.
Stratford
BRIDGEPORT
Fairfield
Saugatuck R.
Saugatuck
Southport
East Norwalk
SOUTH NORWALK
Stamford
Mianus
Greenwich
Port Chester
Rye
Mamaroneck
Larchmont
New Rochelle
SEE NOTE
Throgs Neck
Sands Pt.
Port Washington
GREAT NECK
Great Neck
Glen Cove
Sea Cliff
Roslyn
Oyster Bay
Lloyd Neck
Huntington
Cold Spring Hbr.
Great Neck
Northport
St. James
Stony Brook
Setauket
Port Jefferson
Rocky Pt.
Herod Pt.
Roanoke Pt.
WEAK
WEAK
See pages 34 and 35 for tidal current charts referred to "THROGS NECK."

72°30′ 20′ 10′ 72°00′ 50′ 40′ 71

41° 20′

10′

41° 00′

72°30′ 20′ 10′ 72°00′ 50′ 40′ 71

CONNECTICUT RIVER
Madison
Hammonasset Pt.
Clinton
Kelsey Pt.
Westbrook
Old Lyme
Old Kelsey Pt.
Saybrook Pt.
Cornfield Pt.
Hatchett Pt.
Niantic
Niantic R.
NIANTIC BAY
Black Pt.
NEW LONDON
Groton
Thames R.
NEW LONDON HARBOR
Goshen Pt.
Mumford Pt.
West Mystic
Mystic
Mystic R.
Noank
Dumpling I.
WESTERLY
STONINGTON
Green Hill Pt.
Weekapaug Pt.
LITTLE NARRAGANSETT BAY
Watch Hill Pt.
East Pt.
FISHERS ISLAND
Race Pt.
THE RACE
Valiant Rk.
Little Gull I.
Great Gull I.
SIX MILE REEF
LONG SAND SHOAL
LONG ISLAND SOUND
BLOCK ISLAND SOUND
Sandy Pt.
Block Island
Grace Pt.
Southeast Pt.
OLD HARBO
PLUM I.
PLUM GUT
Orient Pt.
Mulford Pt.
Rocky Pt.
GREENPORT
Horton Pt.
SHELTER ISLAND
Nichols Pt.
Peconic
Duck Pond Pt.
Cutchogue
New Suffolk
Mattituck
Mattituck Inlet
Nassau Pt.
Robins I.
LITTLE PECONIC BAY
Aquebogue Neck
Noyack
SAG HARBOR
Amagansett
Wainscott Station
East Hampton
Bridgehampton
S. Jamesport
GREAT PECONIC BAY
Water Mill
Southampton
Canoe Place
GARDINERS BAY
GARDINERS I.
Cherry Hill Pt.
Eastern Plain Pt.
Cedar Pt.
Hog Creek Pt.
North Haven Peninsula
Springs
NAPEAGUE BAY
Goff Pt.
Culloden Pt.
Shagwong Pt.
PORT POND BAY
Montauk
Lake Montauk
MONTAUK PT.

SEE

INSET

TIDAL CURRENT CHART
LONG ISLAND SOUND AND BLOCK ISLAND SOUND

This chart is designed for use with the predicted times and velocities of the current at The Race. The daily predictions are given in the Tidal Current Tables Atlantic Coast of North America published annually by the National Oceanic and Atmospheric Administration, National Ocean Survey.

NOTE: Speeds shown are for time of spring currents. To determine the speed for a particular time, these speeds must be adjusted by use of the table "Factors for Correcting Speeds" given on page 2.

The arrows show the direction and the figures the spring speed in knots of the current at times indicated at bottom of chart.

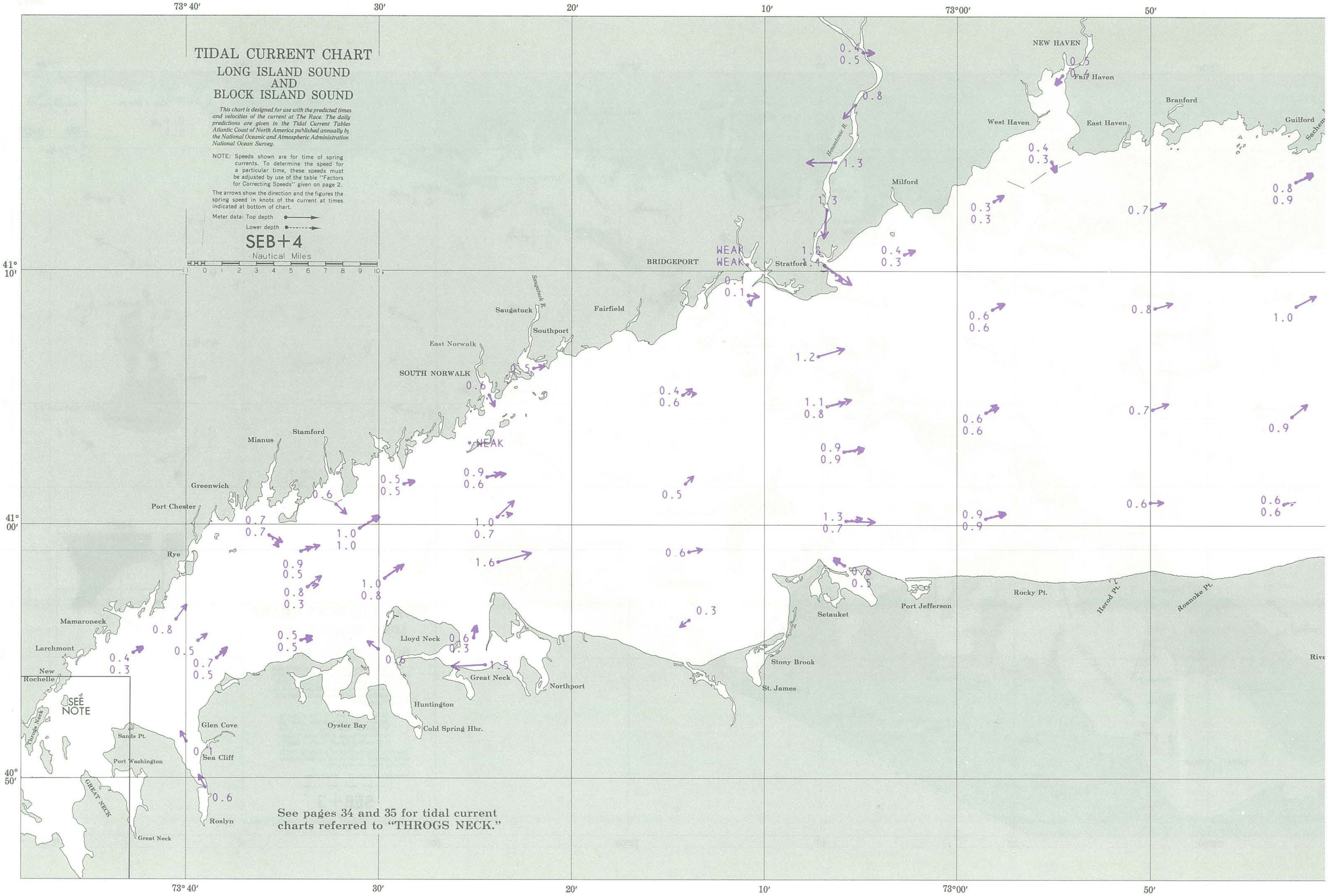
Meter data: Top depth ——→
Lower depth - - - →

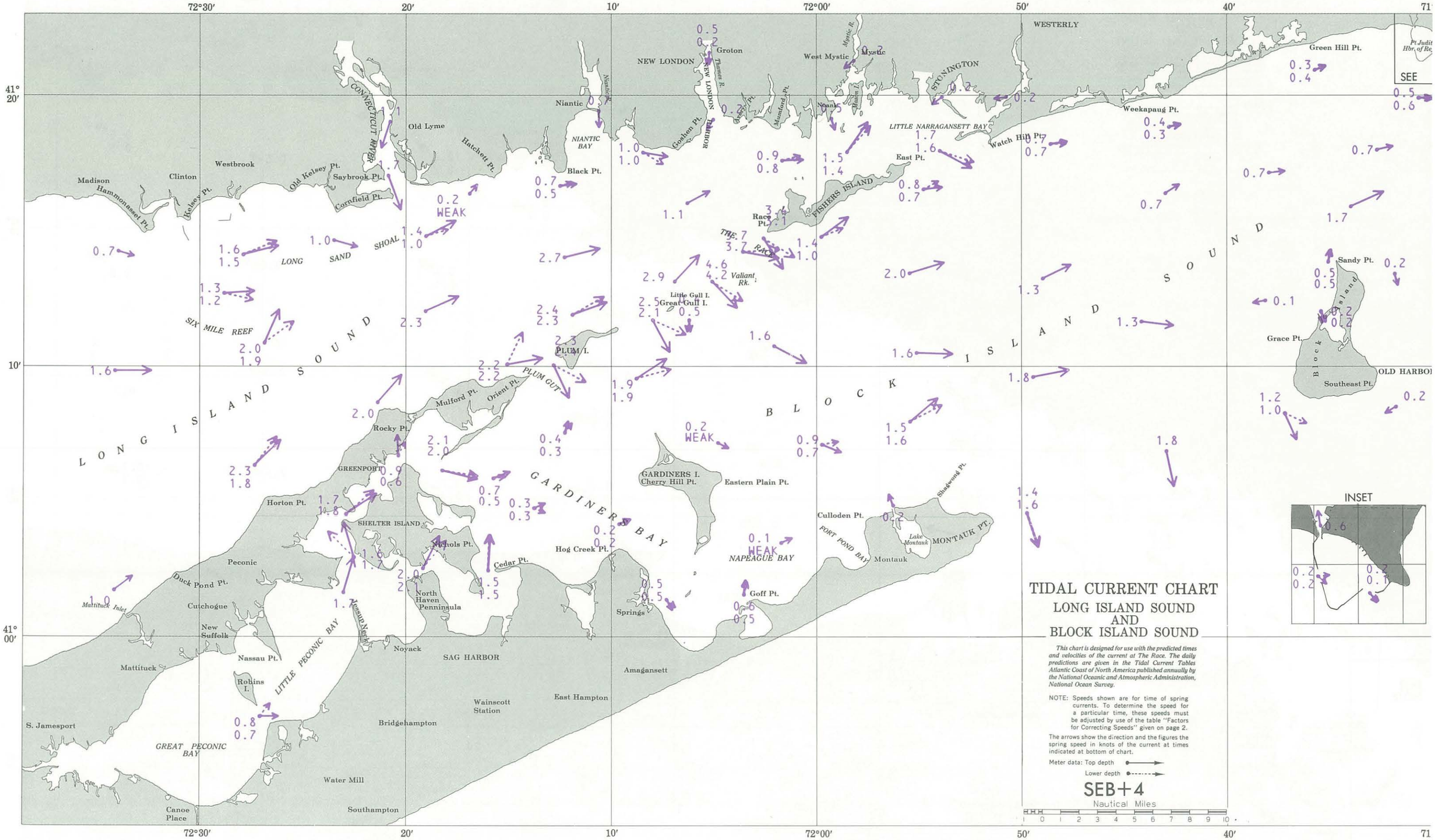
SEB+3

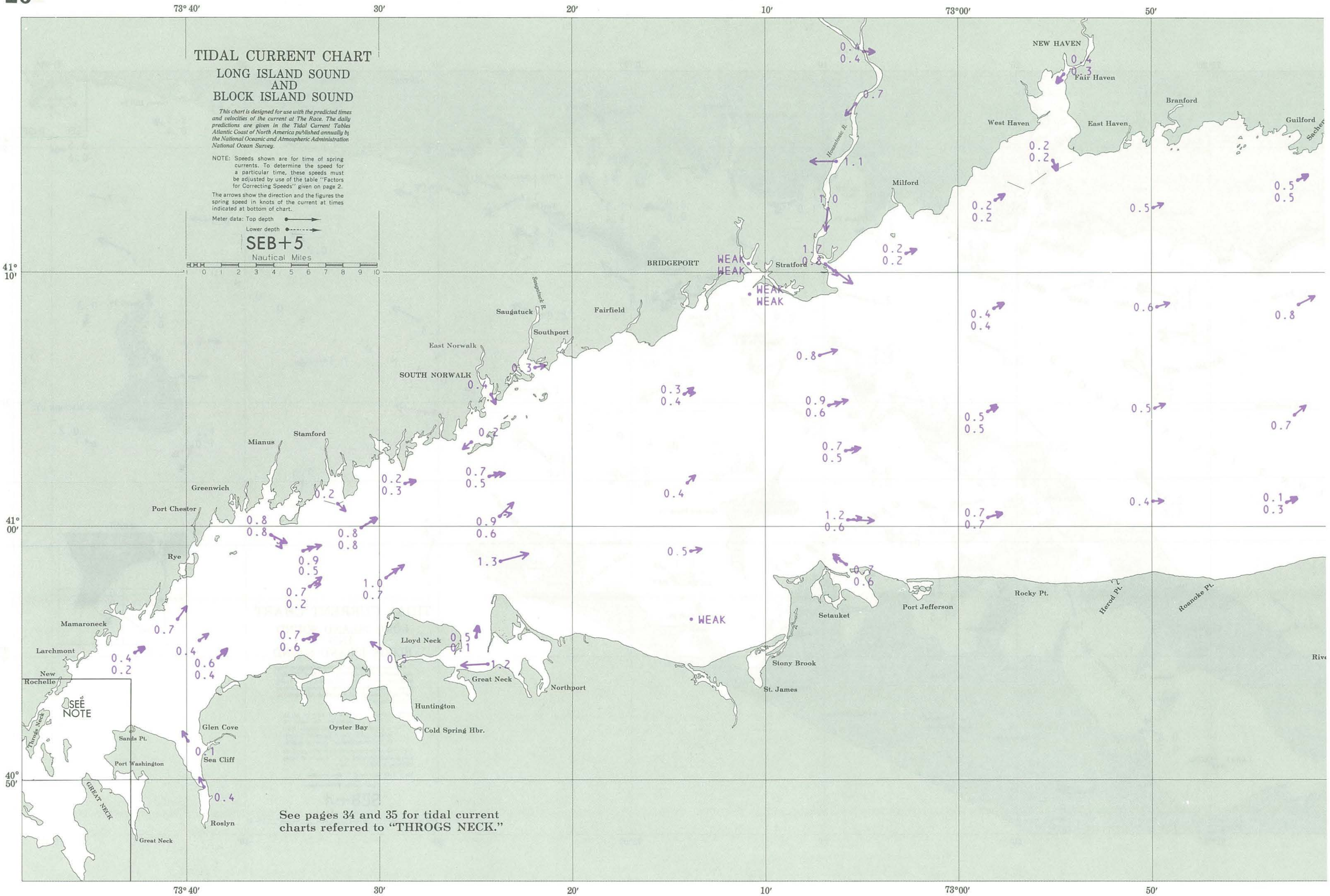
Nautical Miles

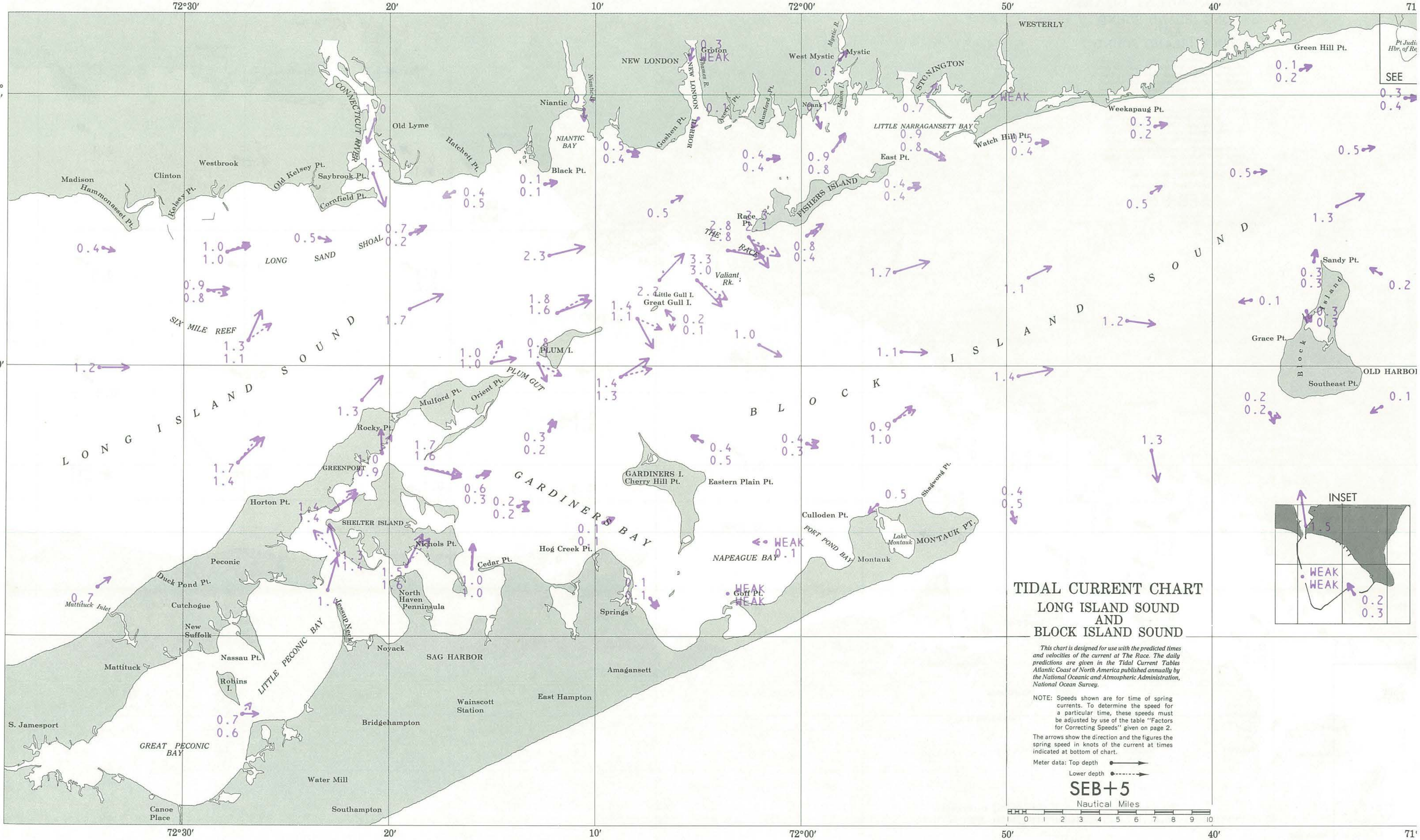
0 1 2 3 4 5 6 7 8 9 10

SEB+3 CUT ON LINE


TIDAL CURRENT CHART
LONG ISLAND SOUND AND BLOCK ISLAND SOUND
This chart is designed for use with the predicted times and velocities of the current at The Race. The daily predictions are given in the Tidal Current Tables Atlantic Coast of North America published annually by the National Oceanic and Atmospheric Administration National Ocean Survey.
NOTE: Speeds shown are for time of spring currents. To determine the speed for a particular time, these speeds must be adjusted by use of the table "Factors for Correcting Speeds" given on page 2.
The arrows show the direction and the figures the spring speed in knots of the current at times indicated at bottom of chart.
Meter data: Top depth
Lower depth
SEB+4
Nautical Miles
73° 40′
30′
20′
10′
73°00′
50′
41° 10′
41° 00′
40° 50′
NEW HAVEN
Fair Haven
West Haven
East Haven
Branford
Guilford
Milford
Housatonic R.
BRIDGEPORT
Stratford
Fairfield
Saugatuck
Saugatuck R.
Southport
East Norwalk
SOUTH NORWALK
Stamford
Mianus
Greenwich
Port Chester
Rye
Mamaroneck
Larchmont
New Rochelle
SEE NOTE
Throgs Neck
Sands Pt.
Port Washington
GREAT NECK
Great Neck
Glen Cove
Sea Cliff
Roslyn
Oyster Bay
Huntington
Cold Spring Hbr.
Lloyd Neck
Great Neck
Northport
Stony Brook
St. James
Setauket
Port Jefferson
Rocky Pt.
Herod Pt.
Roanoke Pt.
WEAK
See pages 34 and 35 for tidal current charts referred to "THROGS NECK."


72°30′
20′
10′
72°00′
50′
40′
41° 20′
10′
41° 00′
CONNECTICUT RIVER
Old Lyme
Hatchett Pt.
Niantic
Niantic R.
NIANTIC BAY
Black Pt.
Madison
Hammonasset Pt.
Clinton
Kelsey Pt.
Westbrook
Old Kelsey Pt.
Saybrook Pt.
Cornfield Pt.
NEW LONDON
Groton
Thames R.
NEW LONDON HARBOR
Goshen Pt.
Pine Pt.
Mumford Pt.
West Mystic
Mystic
Mystic R.
Noank
Monte Pt.
STONINGTON
WESTERLY
Green Hill Pt.
Pt Judith Hbr. of Re
SEE
Weekapaug Pt.
LITTLE NARRAGANSETT BAY
Watch Hill Pt.
East Pt.
FISHERS ISLAND
Race Pt.
THE RACE
Valiant Rk.
Little Gull I.
Great Gull I.
SIX MILE REEF
SHOAL
LONG
SAND
PLUM I.
PLUM GUT
Orient Pt.
Mulford Pt.
Rocky Pt.
GREENPORT
LONG ISLAND SOUND
BLOCK ISLAND SOUND
Sandy Pt.
Block Island
Grace Pt.
Southeast Pt.
OLD HARBOR
GARDINERS BAY
GARDINERS I.
Cherry Hill Pt.
Eastern Plain Pt.
Horton Pt.
SHELTER ISLAND
Nichols Pt.
Hog Creek Pt.
Cedar Pt.
NAPEAGUE BAY
Culloden Pt.
Shadwong Pt.
FORT POND BAY
Lake Montauk
MONTAUK PT.
Montauk
Goff Pt.
Springs
Amagansett
East Hampton
Wainscott Station
Bridgehampton
Water Mill
Southampton
Canoe Place
Peconic
Duck Pond Pt.
Cutchogue
New Suffolk
Mattituck Inlet
Mattituck
Nassau Pt.
Robins I.
LITTLE PECONIC BAY
GREAT PECONIC BAY
Jessup Neck
Noyack
SAG HARBOR
North Haven Penninsula
S. Jamesport
INSET
TIDAL CURRENT CHART
LONG ISLAND SOUND AND BLOCK ISLAND SOUND
This chart is designed for use with the predicted times and velocities of the current at The Race. The daily predictions are given in the Tidal Current Tables Atlantic Coast of North America published annually by the National Oceanic and Atmospheric Administration, National Ocean Survey.
NOTE: Speeds shown are for time of spring currents. To determine the speed for a particular time, these speeds must be adjusted by use of the table "Factors for Correcting Speeds" given on page 2.
The arrows show the direction and the figures the spring speed in knots of the current at times indicated at bottom of chart.
Meter data: Top depth
Lower depth
SEB+4
Nautical Miles
0 1 2 3 4 5 6 7 8 9 10


TIDAL CURRENT CHART
LONG ISLAND SOUND
AND
BLOCK ISLAND SOUND
This chart is designed for use with the predicted times and velocities of the current at The Race. The daily predictions are given in the Tidal Current Tables Atlantic Coast of North America published annually by the National Oceanic and Atmospheric Administration National Ocean Survey.
NOTE: Speeds shown are for time of spring currents. To determine the speed for a particular time, these speeds must be adjusted by use of the table "Factors for Correcting Speeds" given on page 2.
The arrows show the direction and the figures the spring speed in knots of the current at times indicated at bottom of chart.
Meter data: Top depth
Lower depth
SEB+5
Nautical Miles
1 0 1 2 3 4 5 6 7 8 9 10
73° 40′
30′
20′
10′
73°00′
50′
41° 10′
41° 00′
40° 50′
NEW HAVEN
Fair Haven
West Haven
East Haven
Branford
Guilford
Milford
Housatonic R.
BRIDGEPORT
Stratford
Fairfield
Southport
Saugatuck
Saugatuck R.
East Norwalk
SOUTH NORWALK
Stamford
Mianus
Greenwich
Port Chester
Rye
Mamaroneck
Larchmont
New Rochelle
SEE NOTE
Throgs Neck
Sands Pt.
Port Washington
GREAT NECK
Great Neck
Glen Cove
Sea Cliff
Roslyn
Oyster Bay
Lloyd Neck
Huntington
Cold Spring Hbr.
Great Neck
Northport
Stony Brook
St. James
Setauket
Port Jefferson
Rocky Pt.
Herod Pt.
Roanoke Pt.
WEAK
See pages 34 and 35 for tidal current charts referred to "THROGS NECK."


72°30'
20'
10'
72°00'
50'
40'
71°
41° 20'
10'
41° 00'
WESTERLY
NEW LONDON
Groton
West Mystic
Mystic
STONINGTON
Green Hill Pt.
Pt Judith Hbr. of Refuge
SEE INSET
Niantic
Old Lyme
CONNECTICUT RIVER
Hatchett Pt.
NIANTIC BAY
Black Pt.
Goshen Pt.
NEW LONDON HARBOR
Thames R.
Avery Pt.
Mumford Pt.
Noank
Mason I.
Mystic R.
LITTLE NARRAGANSETT BAY
Watch Hill Pt.
Weekapaug Pt.
East Pt.
FISHERS ISLAND
Madison
Hammonasset Pt.
Clinton
Kelsey Pt.
Westbrook
Old Kelsey Pt.
Saybrook Pt.
Cornfield Pt.
LONG SAND SHOAL
SIX MILE REEF
Race Pt.
THE RACE
Valiant Rk.
Little Gull I.
Great Gull I.
PLUM I.
PLUM GUT
Mulford Pt.
Orient Pt.
Rocky Pt.
GREENPORT
LONG ISLAND SOUND
BLOCK ISLAND SOUND
Sandy Pt.
Grace Pt.
Block Island
OLD HARBOR
Southeast Pt.
GARDINERS BAY
GARDINERS I.
Cherry Hill Pt.
Eastern Plain Pt.
Horton Pt.
SHELTER ISLAND
Nichols Pt.
Cedar Pt.
Hog Creek Pt.
Culloden Pt.
Shagwong Pt.
FORT POND BAY
NAPEAGUE BAY
Goff Pt.
Lake Montauk
MONTAUK PT.
Montauk
Peconic
Duck Pond Pt.
Mattituck Inlet
Cutchogue
New Suffolk
Nassau Pt.
Mattituck
Robins I.
LITTLE PECONIC BAY
Jessup Neck
North Haven Penninsula
Noyack
SAG HARBOR
Springs
Amagansett
East Hampton
Wainscott Station
Bridgehampton
S. Jamesport
GREAT PECONIC BAY
Water Mill
Canoe Place
Southampton
INSET
WEAK
TIDAL CURRENT CHART
LONG ISLAND SOUND AND BLOCK ISLAND SOUND
This chart is designed for use with the predicted times and velocities of the current at The Race. The daily predictions are given in the Tidal Current Tables Atlantic Coast of North America published annually by the National Oceanic and Atmospheric Administration, National Ocean Survey.
NOTE: Speeds shown are for time of spring currents. To determine the speed for a particular time, these speeds must be adjusted by use of the table "Factors for Correcting Speeds" given on page 2.
The arrows show the direction and the figures the spring speed in knots of the current at times indicated at bottom of chart.
Meter data: Top depth
Lower depth
SEB+5
Nautical Miles
1 0 1 2 3 4 5 6 7 8 9 10

SEB+5

TIDAL CURRENT CHART
LONG ISLAND SOUND AND BLOCK ISLAND SOUND

This chart is designed for use with the predicted times and velocities of the current at The Race. The daily predictions are given in the Tidal Current Tables Atlantic Coast of North America published annually by the National Oceanic and Atmospheric Administration National Ocean Survey.

NOTE: Speeds shown are for time of spring currents. To determine the speed for a particular time, these speeds must be adjusted by use of the table "Factors for Correcting Speeds" given on page 2.

The arrows show the direction and the figures the spring speed in knots of the current at times indicated at bottom of chart.

Meter data: Top depth ●——→

Lower depth ●- - - -→

SEB+6

Nautical Miles

0 1 2 3 4 5 6 7 8 9 10

73° 40′ 30′ 20′ 10′ 73°00′ 50′

41° 10′

41° 00′

40° 50′

NEW HAVEN
Fair Haven
West Haven
East Haven
Branford
Guilford
Milford
BRIDGEPORT
Stratford
Housatonic R.
Saugatuck R.
Saugatuck
Southport
Fairfield
East Norwalk
SOUTH NORWALK
Stamford
Mianus
Greenwich
Port Chester
Rye
Mamaroneck
Larchmont
New Rochelle
Throgs Neck
SEE NOTE
Sands Pt.
Port Washington
GREAT NECK
Great Neck
Roslyn
Glen Cove
Sea Cliff
Oyster Bay
Lloyd Neck
Huntington
Cold Spring Hbr.
Great Neck
Northport
Setauket
Port Jefferson
Stony Brook
St. James
Rocky Pt.
Herod Pt.
Roanoke Pt.

See pages 34 and 35 for tidal current charts referred to "THROGS NECK."

72°30′ 20′ 10′ 72°00′ 50′ 40′

41° 20′

10′

41° 00′

LONG ISLAND SOUND

BLOCK ISLAND SOUND

CONNECTICUT RIVER

Old Lyme

Hatchett Pt.

Niantic

Niantic R.

NIANTIC BAY

Black Pt.

Cornfield Pt.

Saybrook Pt.

Old Kelsey Pt.

Westbrook

Clinton

Kelsey Pt.

Madison

Hammonasset Pt.

WEAK

LONG SAND SHOAL

SIX MILE REEF

PLUM I.

PLUM GUT

Mulford Pt.

Orient Pt.

Rocky Pt.

GREENPORT

Horton Pt.

SHELTER ISLAND

Nichols Pt.

Peconic

Duck Pond Pt.

Mattituck Inlet

Cutchogue

New Suffolk

Nassau Pt.

Mattituck

Robins I.

LITTLE PECONIC BAY

S. Jamesport

GREAT PECONIC BAY

Canoe Place

Water Mill

Southampton

Bridgehampton

Wainscott Station

East Hampton

Amagansett

SAG HARBOR

Noyack

Jessup Neck

North Haven Peninsula

Cedar Pt.

Hog Creek Pt.

Springs

Gerard Pt.

NAPEAGUE BAY

GARDINERS BAY

GARDINERS I.
Cherry Hill Pt.

Eastern Plain Pt.

Culloden Pt.

FORT POND BAY

Montauk

Lake Montauk

MONTAUK PT.

Shagwong Pt.

NEW LONDON

Groton

NEW LONDON HARBOR

Thames R.

Goshen Pt.

Harkness Pt.

Mumford Pt.

Noank

West Mystic

Mystic

Mystic R.

Mason I.

STONINGTON

WESTERLY

LITTLE NARRAGANSETT BAY

Watch Hill Pt.

Weekapaug Pt.

Green Hill Pt.

Pt. Judith Hbr. of Refuge

SEE

East Pt.

FISHERS ISLAND

Race Pt.

THE RACE

Valiant Rk.

Little Gull I.

Great Gull I.

Sandy Pt.

Block Island

Grace Pt.

Southeast Pt.

OLD HARBOR

TIDAL CURRENT CHART

LONG ISLAND SOUND AND BLOCK ISLAND SOUND

This chart is designed for use with the predicted times and velocities of the current at The Race. The daily predictions are given in the Tidal Current Tables Atlantic Coast of North America published annually by the National Oceanic and Atmospheric Administration, National Ocean Survey.

NOTE: Speeds shown are for time of spring currents. To determine the speed for a particular time, these speeds must be adjusted by use of the table "Factors for Correcting Speeds" given on page 2.

The arrows show the direction and the figures the spring speed in knots of the current at times indicated at bottom of chart.

Meter data: Top depth ●——→

Lower depth ●- - - -→

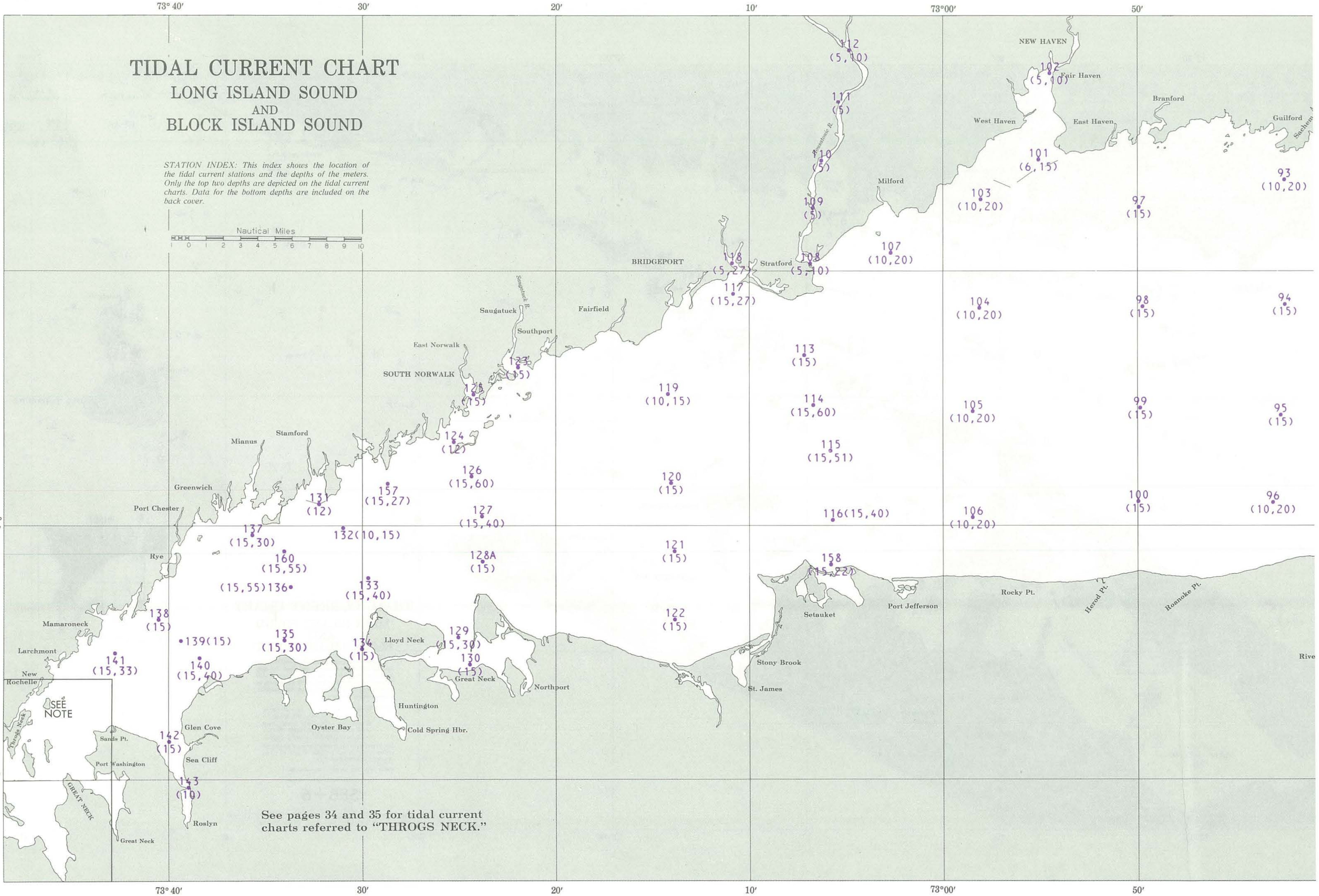
SEB+6

Nautical Miles

0 1 2 3 4 5 6 7 8 9 10

INSET

SE


TIDAL CURRENT CHART
LONG ISLAND SOUND
AND
BLOCK ISLAND SOUND
STATION INDEX: This index shows the location of the tidal current stations and the depths of the meters. Only the top two depths are depicted on the tidal current charts. Data for the bottom depths are included on the back cover.
Nautical Miles
1 0 1 2 3 4 5 6 7 8 9 10
73° 40′
30′
20′
10′
73°00′
50′
41° 10′
41° 00′
40° 50′
NEW HAVEN
Fair Haven
West Haven
East Haven
Branford
Guilford
Sachem
Milford
Housatonic R.
Stratford
BRIDGEPORT
Fairfield
Saugatuck R.
Saugatuck
Southport
East Norwalk
SOUTH NORWALK
Stamford
Mianus
Greenwich
Port Chester
Rye
Mamaroneck
Larchmont
New Rochelle
SEE NOTE
Throgs Neck
Sands Pt.
Port Washington
GREAT NECK
Great Neck
Glen Cove
Sea Cliff
Roslyn
Oyster Bay
Lloyd Neck
Huntington
Cold Spring Hbr.
Great Neck
Northport
Stony Brook
St. James
Setauket
Port Jefferson
Rocky Pt.
Herod Pt.
Roanoke Pt.
Rive
112 (5,10)
111 (5)
110 (5)
109 (5)
108 (5,10)
118 (5,27)
117 (15,27)
102 (5,10)
101 (6,15)
103 (10,20)
107 (10,20)
97 (15)
93 (10,20)
104 (10,20)
98 (15)
94 (15)
113 (15)
123 (15)
125 (15)
119 (10,15)
114 (15,60)
105 (10,20)
99 (15)
95 (15)
124 (12)
115 (15,51)
126 (15,60)
120 (15)
157 (15,27)
131 (12)
127 (15,40)
116(15,40)
106 (10,20)
100 (15)
96 (10,20)
137 (15,30)
132(10,15)
160 (15,55)
121 (15)
128A (15)
158 (15,22)
(15,55)136
133 (15,40)
138 (15)
122 (15)
129 (15,30)
139(15)
135 (15,30)
134 (15)
130 (15)
141 (15,33)
140 (15,40)
142 (15)
143 (10)
See pages 34 and 35 for tidal current charts referred to "THROGS NECK."

TIDAL CURRENT CHART

LONG ISLAND SOUND AND BLOCK ISLAND SOUND

STATION INDEX: This index shows the location of the tidal current stations and the depths of the meters. Only the top two depths are depicted on the tidal current charts. Data for the bottom depths are included on the back cover.

Nautical Miles

1 0 1 2 3 4 5 6 7 8 9 10

INSET

SEE

TIDAL CURRENT CHARTS, LONG ISLAND SOUND AND BLOCK ISLAND SOUND

(EXTREME WESTERN END)

These equal interval charts on pages 34 and 35 include the stations in the extreme western end of Long Island Sound. The stations in this chart area have the same characteristics as the reference station at "Throgs Neck."

These charts supersede the "Tidal Current Charts, Long Island Sound and Block Island Sound," Fifth Edition 1973.

These charts differ from the superseded hourly spaced charts. These charts are computed on an equal interval basis for each flood and ebb phase.

These tidal current charts present a comprehensive view of the speed and direction of the current in the extreme western end of Long Island Sound throughout the tidal cycle. The arrows show the true direction of the current. The figures give the speed in knots at average spring speeds, that is, the greater flood and greater ebb speeds at the time of new or full Moon when the currents are stronger than average. When the current is less than 0.1 knot it is designated as weak. The data depicts the average speed and direction at the exact location of the station. Inference of the current between stations must be done according to the user's experience and local knowledge.

NONTIDAL CURRENTS. These charts depict the flow of the tidal currents under normal weather conditions. Strong winds and freshets, however, bring about nontidal currents which may modify considerably the speeds and directions shown on the charts.

USE OF CHARTS. The charts which may be used for any year, are referred to the times of slack waters at "Throgs Neck." Daily predictions for "Throgs Neck" are included in the "Tidal Current Tables, Atlantic Coast of North America," published annually by the National Ocean Survey.

There are 13 charts: 7 are referred to "Slack: flood begins" (SFB) and 6 are referred to "Slack: ebb begins" (SEB). These charts are computed on an equal interval basis for each flood and ebb. The chart to be used for any desired time is determined in the following manner. For the seven equal interval charts referred to "Slack: flood begins," compute as follows: determine the time duration of flood in minutes by computing the time difference between "Slack: flood begins," and "Slack: ebb begins." Divide the time duration by seven to determine the time in minutes for each flood interval. Add this time interval consecutively to "Slack: flood begins," to determine the times for each successive interval. The chart to be used for any desired time will be closest to the computed chart time. Compute the chart series referred to "Slack: ebb begins," by dividing the ebb duration by six and following the above procedure.

See page 33 for diagram method to determine the chart and the speed factor to use.

The spring speeds shown on the charts must be corrected to the speeds to be expected at the day and hour of their use. The speed of the tidal current varies from day to day principally in accordance with the phase, distance and declination of the Moon. To obtain the speed for any particular day and hour, the speeds indicated on the charts should be modified as follows: obtain from the Tidal Current Tables the predicted speed of the "Maximum Flood" or "Maximum Ebb" at Throgs Neck following the slack to which the appropriate chart is referred. With this predicted speed enter the following table and obtain the corresponding correction factor. The speed of the current for the particular day and hour is then obtained by multiplying the speed indicated on the chart by this factor.

Factors for correcting speeds

MAXIMUM FLOOD		MAXIMUM EBB	
Predicted speed (knots) at Throgs Neck	Factor to apply to speed on charts	Predicted speed (knots) at Throgs Neck	Factor to apply to speed on charts
0.4-------	0.4	0.3-0.4-------	0.3
0.5-------	0.5	0.5-------	0.4
0.6-------	0.6	0.6-------	0.5
0.7-------	0.7	0.7-------	0.6
0.8-------	0.8	0.8-------	0.7
0.9-------	0.9	0.9-------	0.8
1.0-------	1.0	1.0-------	0.9
1.1-------	1.1	1.1-1.2-------	1.0
1.2-------	1.2	1.3-------	1.1
1.3-------	1.3	1.4-------	1.2
1.4-------	1.4		
1.5-------	1.5		

DAY	SLACK WATER TIME	MAXIMUM CURRENT TIME	MAXIMUM CURRENT VEL.
	H.M.	H.M.	KNOTS
1	0047	0303	0.9E
	0634	0929	0.7F
	1314	1528	0.9E
	1859	2153	0.7F
2	0142	0353	0.8E
	0724	1020	0.7F
	1409	1618	0.8E
	1949	2246	0.6F
3	0236		

The speed factor 0.8 applies to all six charts starting with SEB @ 00^h47^m.

EXAMPLE. Determine the speed and direction of the current west of Elm Pt. at 02^h05^m (EST) on the first day of the month when the predictions at Throgs Neck are as shown above.

PROCEDURE. The time of 02^h05^m a.m. (EST) occurs during the ebb phase at the reference station. The duration of this ebb phase is SFB @ 06^h34^m SEB @ $00^h47^m = 05^h47^m$ (347 minutes). Divide 347 minutes by 6 to determine the time duration of each ebb equal interval (57.83). Add this 57.83 minutes consecutively to each interval starting with SEB @ 00^h47^m. The succeeding intervals occur at SEB +1 @ 01^h45^m, SEB +2 @ 02^h43^m, SEB +3 @ 03^h41^m, SEB +4 @ 04^h39^m and SEB +5 @ 05^h37^m. The desired time of 02^h05^m is nearest to the time of SEB +1 @ 01^h45^m.

Use chart SEB +1 and multiply all speeds on the chart by the speed correction factor. For a predicted maximum ebb @ 03^h03^m of 0.9 knot the table gives a correction factor of 0.8 to multiply all speeds shown on chart SEB +1. The corrected speed for the station west of Elm Pt. is 0.6 x .8=0.5 knots.

NOTE: The name designation for each equal interval chart has been shortened to allow for inclusion in the Tidal Current Charts and Tidal Current Chart Diagrams. The seven equal charts referred to the flood phase at the reference station (Throgs Neck) are: SFB, SFB +1, SFB +2, SFB +3, SFB +4, SFB +5 and SFB +6. The six equal interval charts referred to the ebb phase are: SEB, SEB +1, SEB + 2, SEB +3, SEB +4, and SEB +5.

INDEX CHARTS. The station index chart on page 35 shows the location of the tidal current stations and the depths of the meters. Only the top two depths are depicted on the tidal current charts. Data for the bottom depths are included on the back cover.

All persons using these charts are invited to send information or suggestions for increasing their usefulness to the:

Director, National Ocean Survey
6001 Executive Blvd.
Rockville, Md. 20852

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TIDAL CURRENT DIAGRAM
FOR
LONG ISLAND SOUND AND BLOCK ISLAND SOUND TIDAL CURRENT CHARTS
(Extreme Western End)

The following instructions to compute an equal interval tidal current chart diagram must refer to the times of slack water at "Throgs Neck." Daily predictions for "Throgs Neck" are included in the "Tidal Current Tables, Atlantic Coast of North America," published annually by the National Ocean Survey, NOAA.

INSTRUCTIONS TO CONSTRUCT TIDAL CURRENT DIAGRAMS (computations may be made for consecutive days in advance of their use).

PREDICTIONS AT THROGS NECK

DAY	SLACK WATER TIME H.M.	MAXIMUM CURRENT TIME -VEL. H.M.	KNOTS
1	0047	0303	0.9E
	0634	0929	0.7F
	1314	1528	0.9E
	1859	2153	0.7F
2	0142	0353	0.8E
	0724	1020	0.7F
	1409	1618	0.8E
	1949	2246	0.6F
3	0236		

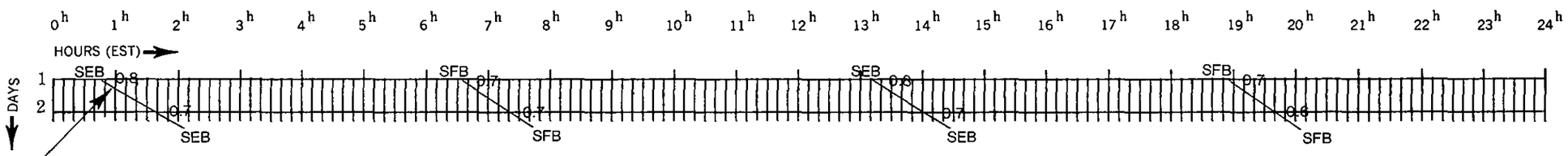
Factors for correcting speeds

Maximum Ebb

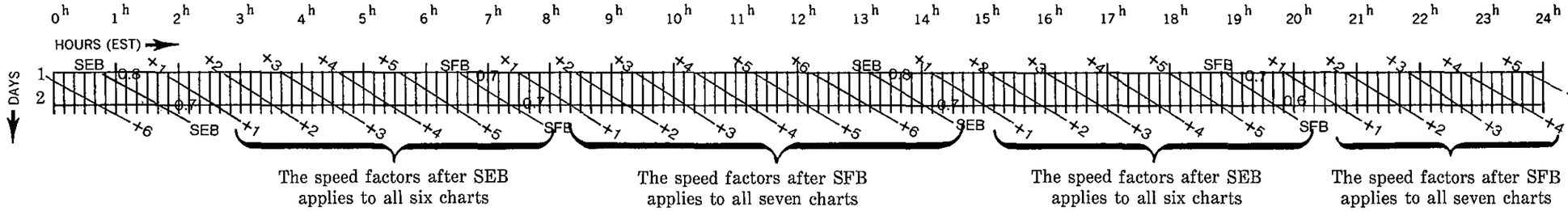
Predicted speed (knots) at Throgs Neck	Factor to apply to speed on charts
.3 - .4	.3
.5	.4
.6	.5
.7	.6
.8	.7
.9	.8
1.0	.9
1.1 - 1.2	1.0
1.3	1.1
1.4	1.2

Maximum Flood

Predicted speed (knots) at Throgs Neck	Factor to apply to speed on charts
.4	.4
.5	.5
.6	.6
.7	.7
.8	.8
.9	.9
1.0	1.0
1.1	1.1
1.2	1.2
1.3	1.3
1.4	1.4
1.5	1.5



Step 1: a. Plot all times of slack waters using current predictions from Throgs Neck.
b. Convert predicted speeds for floods and ebbs to speed factors and place after proper slacks. Example: Predicted maximum ebb speed @ 03^h03^m is 0.9 knots = speed correction factor 0.8 (place after SEB @ 00^h47^m).
c. Draw lines connecting all slacks and label.



The speed factors after SEB applies to all six charts

The speed factors after SFB applies to all seven charts

The speed factors after SEB applies to all six charts

The speed factors after SFB applies to all seven charts

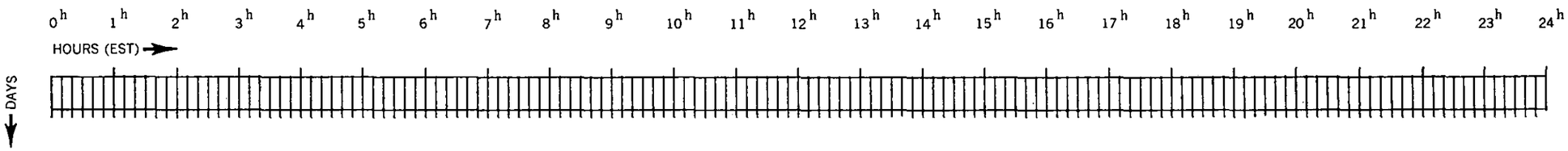
Step 2: Compute equal intervals between slacks in the following manner:
a. The first ebb duration is computed by determining the time interval between slack; ebb begins @ 00^h47^m and slack: flood begins @ $06^h34^m = 05^h47^m$ (347 minutes). Divide 347 minutes by 6 to determine the time duration for each equal interval (57.83). Add this 57.83 minutes consecutively to each interval starting with SEB @ 00^h47^m. The succeeding intervals occur at SEB +1 @ 01^h45^m, SEB +2 @ 02^h43^m, SEB +3 @ 03^h41^m, SEB +4 @ 04^h39^m, and SEB +5 @ 05^h37^m.
b. Compute equal intervals for all phases and plot.
c. Draw lines connecting like intervals.

INSTRUCTION IN USE OF TIDAL CURRENT DIAGRAMS.

EXAMPLE: Determine chart to use at 02^h05^m (EST) on the 1st day of the month using the above diagram.

PROCEDURE: The diagram in step 2 indicates that the chart SEB +1 is the chart to use. Apply the speed correction factor 0.8 (the speed factor appears after the slack line at 00^h47^m) to all speeds on the chart.

Graph for computing tidal current diagram (NOTE: It is suggested that a transparent overlay be used over the graph to permit repeated use).



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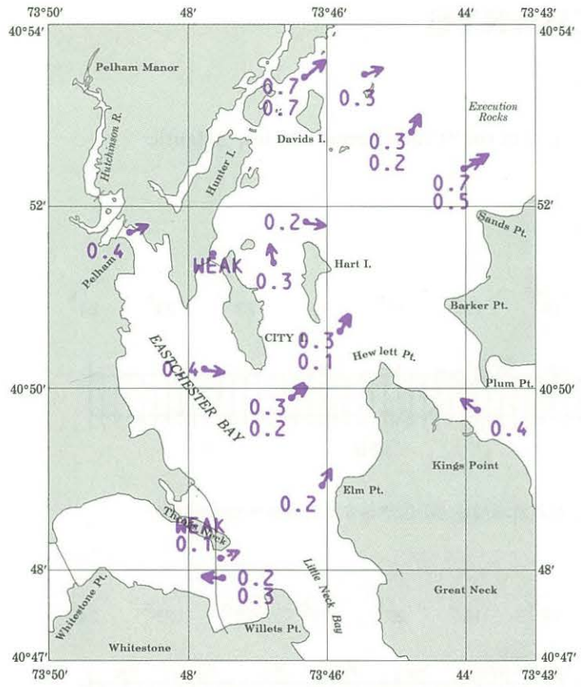
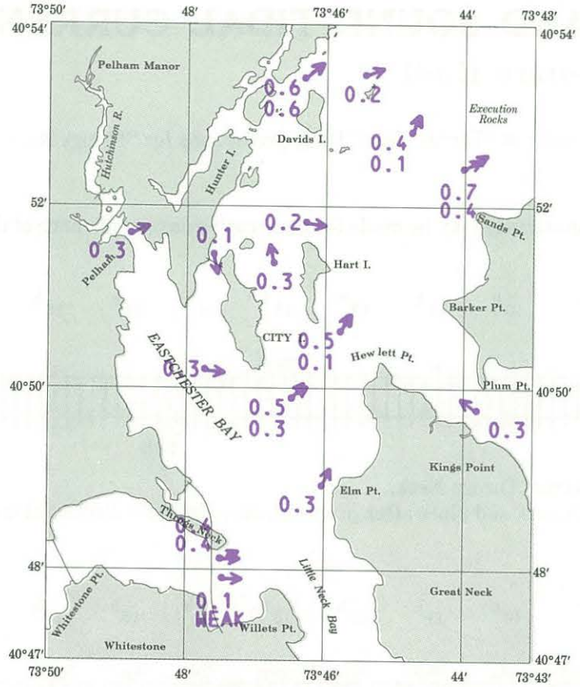
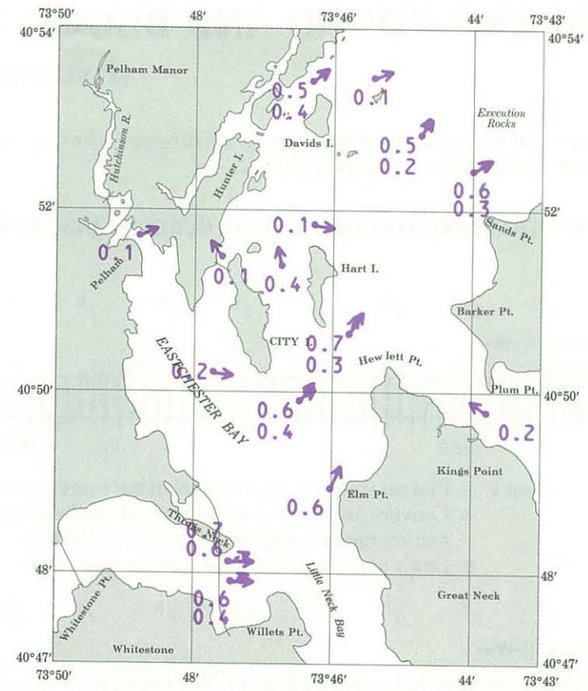


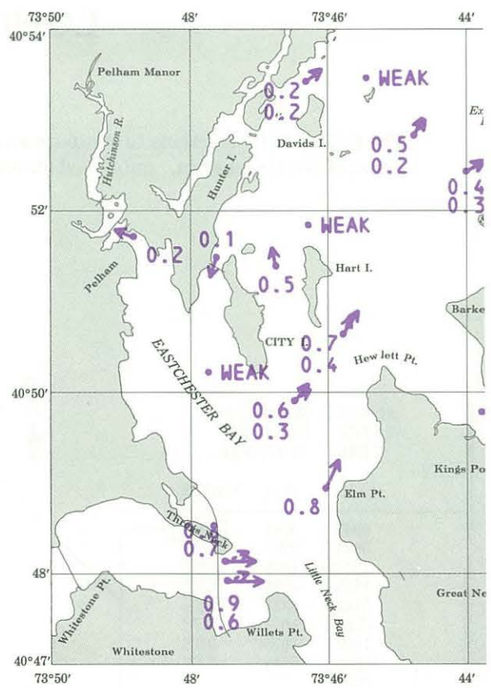
SFB



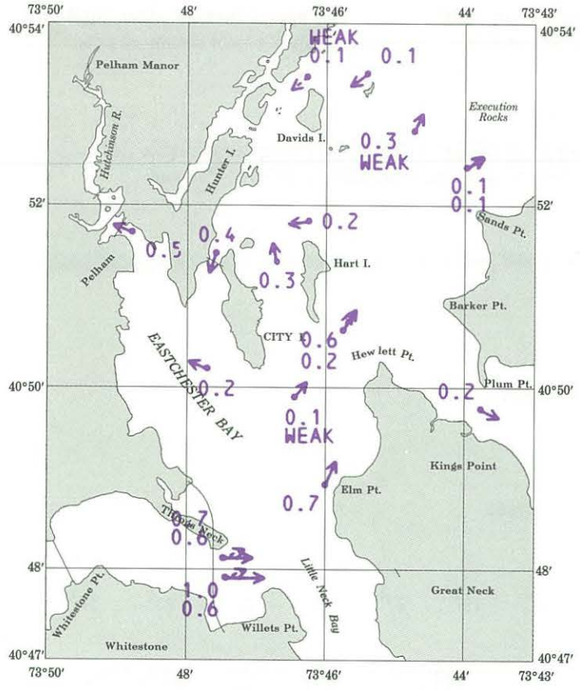
SFB+1



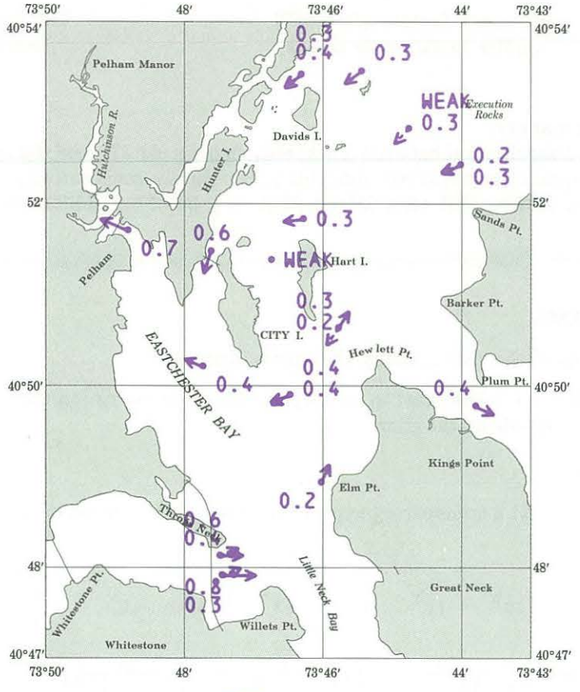
SFB+2



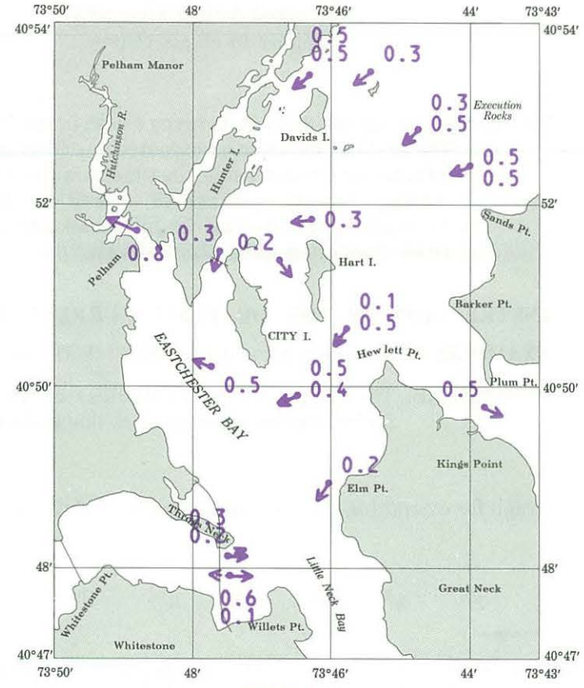
SFB+3



SFB+4

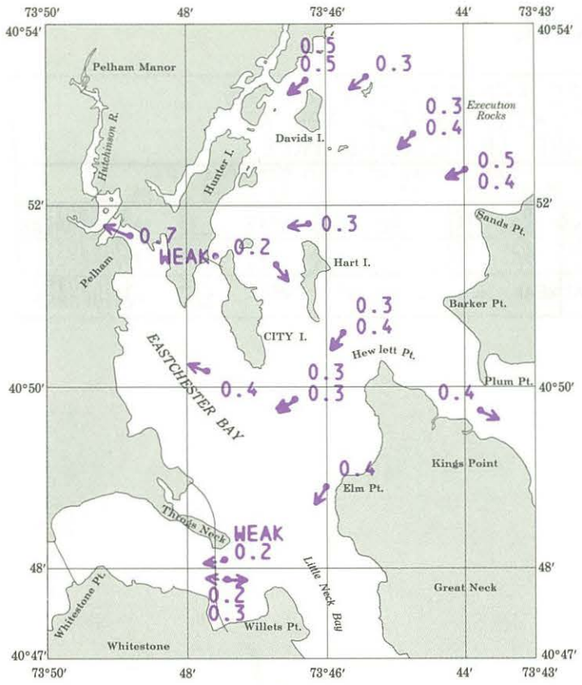


SFB+5

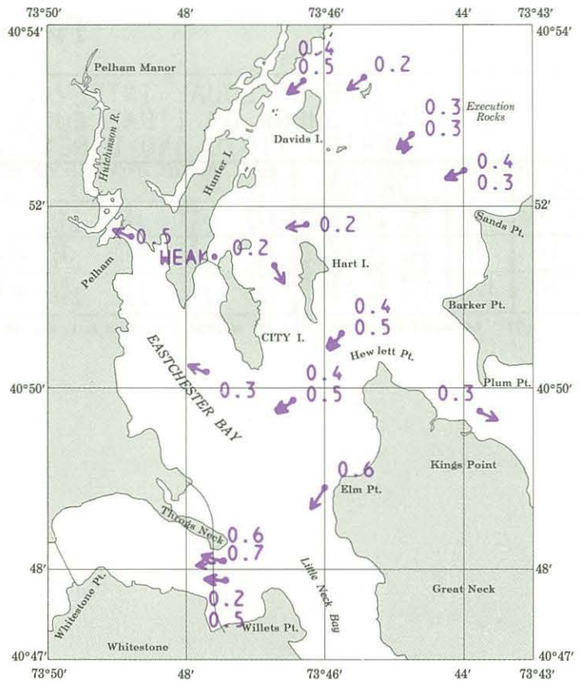


SFB+6

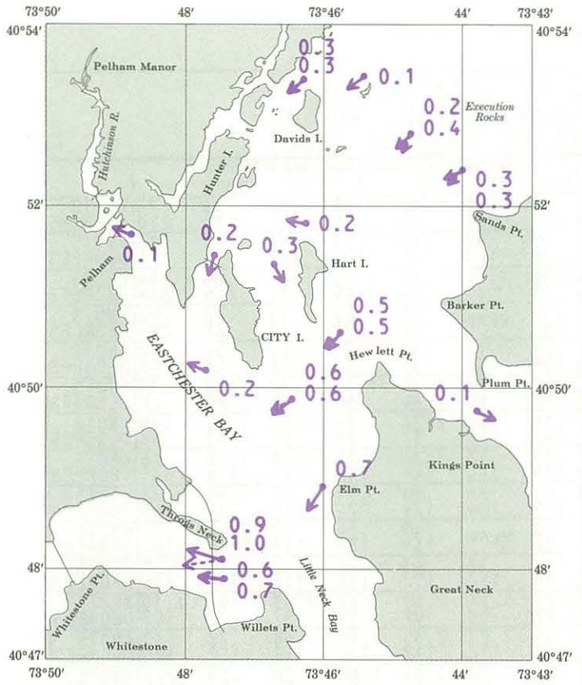
These charts are referred to the reference station at "Throgs Neck."



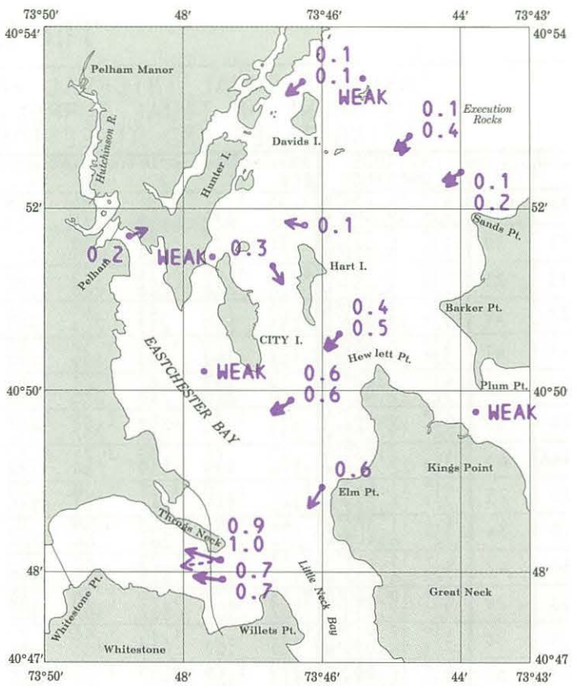
SEB



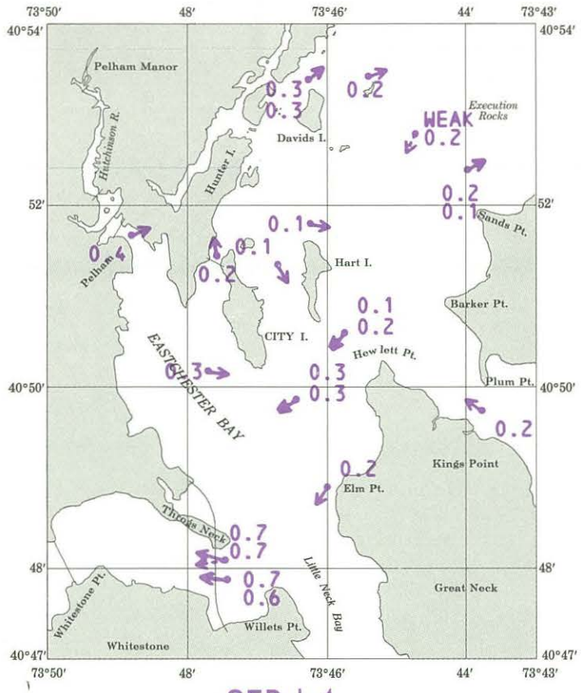
SEB+1



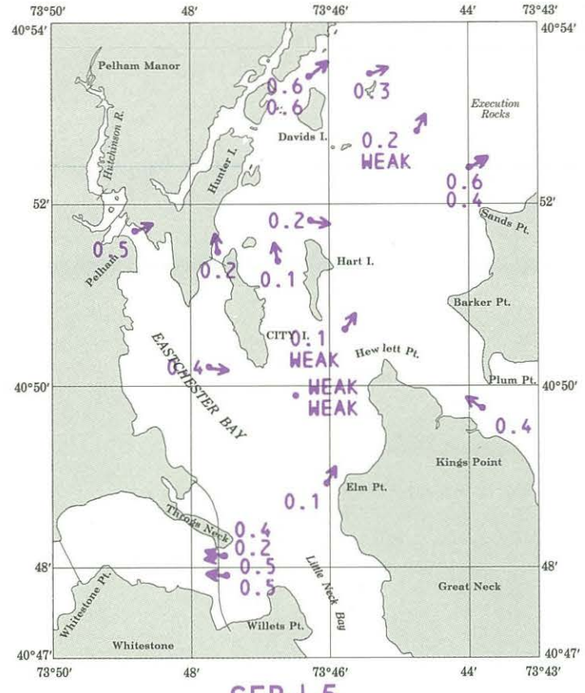
SEB+2



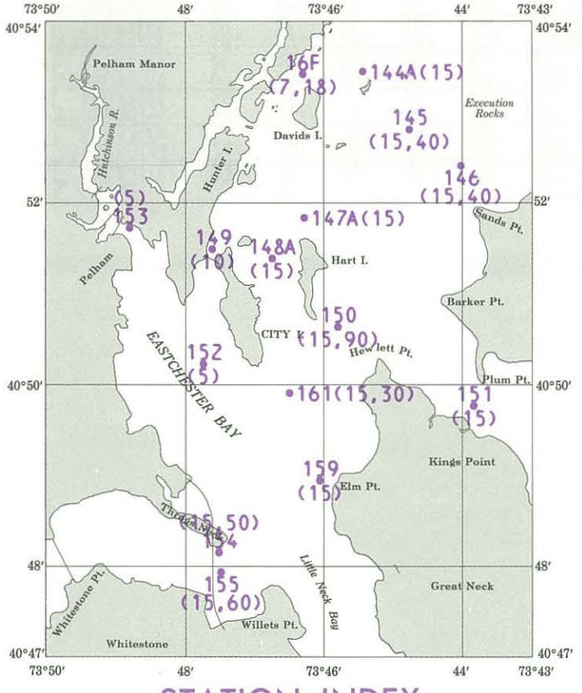
SEB+3



SEB+4



SEB+5



STATION INDEX

These charts are referred to the reference station at "Throgs Neck."

The Race

TABLE OF EQUAL INTERVAL VALUES FOR STATION DEPTHS NOT SHOWN ON TIDAL CURRENT CHARTS. SPEEDS ARE AT SPRING TIDES AND DIRECTIONS ARE IN DEGREES TRUE.

STATION NO.	DEPTH (FT)	LATITUDE LONGITUDE	EQUAL INTERVALS AFTER SLACK FLOOD BEGINS (SFB) SFB	+1	+2	+3	+4	+5	EQUAL INTERVALS AFTER SLACK EBB BEGINS (SEB) SEB	+1	+2	+3	+4	+5	+6	
(1) 28	100	41° 14.750'N 71° 59.800'W	1.35 214	1.77 214	1.95 214	1.85 214	1.46 214	.83 214	.08 214	1.20 55	1.38 55	1.08 55	.56 55	.08 214	.76 214	KNOTS DEGREES
31	30	41° 7.117'N 72° 4.850'W	.92 271	.97 271	.86 271	.61 271	.25 271	.20 108	.59 108	.57 108	.40 108	.15 108	.17 271	.49 271	.76 271	KNOTS DEGREES
33	25	41° 1.483'N 72° 3.617'W	1.43 226	1.40 226	1.16 226	.75 226	.23 226	.94 15	1.90 15	1.87 15	1.61 15	1.16 15	.60 15	.06 226	.94 226	KNOTS DEGREES
37	30	41° 7.500'N 72° 12.300'W	.25 253	.39 253	.44 253	.41 253	.36 253	.25 253	.14 253	WEAK	.18 27	.20 27	.15 27	.07 27	.07 253	KNOTS DEGREES
41	41	41° 6.650'N 72° 20.433'W	.15 198	.79 199	1.29 199	1.52 199	1.45 199	1.10 199	.54 199	.14 33	.86 33	.71 33	.54 18	.56 18	.30 18	KNOTS DEGREES
42	65	41° 4.483'N 72° 22.950'W	.10 80	.99 280	1.87 280	2.21 280	2.02 280	1.47 280	.67 280	.32 80	1.48 80	1.87 80	1.72 80	1.33 80	.77 80	KNOTS DEGREES
44	35	41° 2.467'N 72° 19.250'W	.15 237	1.72 237	2.64 237	2.68 237	2.27 237	1.52 237	.54 237	.87 32	2.22 32	2.36 32	2.06 32	1.51 32	.76 32	KNOTS DEGREES
44A	65	41° 2.883'N 72° 22.567'W	.21 344	.76 139	1.53 139	1.71 139	1.52 139	1.10 139	.51 139	.23 344	1.23 344	1.75 344	1.70 344	1.38 344	.86 344	KNOTS DEGREES
50	25	41° 11.667'N 72° 6.233'W	1.07 345	1.30 345	1.37 345	1.20 345	.79 345	.22 345	.64 109	.26 174	.55 174	.51 174	.15 174	.30 345	.72 345	KNOTS DEGREES
50	34	41° 11.800'N 72° 6.400'W	.66 264	.91 264	1.03 264	.99 264	.66 264	.11 264	.48 39	WEAK	.49 139	.56 139	.37 139	WEAK	.33 264	KNOTS DEGREES
50	42	41° 11.667'N 72° 6.233'W	.83 315	1.03 315	1.09 315	.92 315	.53 315	WEAK	.47 45	.18 152	.43 152	.41 152	.22 152	.11 315	.51 315	KNOTS DEGREES
53	20	41° 10.000'N 72° 12.833'W	3.13 307	4.17 307	3.99 307	3.10 307	1.68 307	.06 97	4.23 97	5.24 97	4.82 97	3.88 97	2.53 97	.92 97	1.10 307	KNOTS DEGREES
54	50	41° 17.917'N 71° 54.000'W	1.15 300	1.79 300	1.85 300	1.48 300	.79 300	.10 112	1.44 112	2.23 112	2.35 112	2.05 112	1.48 112	.72 112	.17 300	KNOTS DEGREES
57	67	41° 17.883'N 71° 58.533'W	.70 262	1.26 262	1.48 262	1.33 262	.92 262	.31 262	.64 54	1.52 54	1.81 54	1.66 54	1.26 54	.69 54	WEAK	KNOTS DEGREES
67	54	41° 17.867'N 72° 8.467'W	.89 292	1.25 292	1.23 292	1.00 292	.60 292	.11 292	.90 102	1.48 102	1.45 102	1.22 102	.84 102	.37 102	.23 292	KNOTS DEGREES
69	42	41° 16.633'N 72° 12.500'W	1.05 257	1.32 257	1.33 257	1.06 257	.55 257	.14 68	.97 68	1.20 68	1.07 68	.80 68	.43 68	WEAK	.59 257	KNOTS DEGREES
92F	20	41° 4.100'N 72° 9.700'W	.13 281	.24 281	.29 281	.26 281	.17 281	WEAK	.09 67	.16 67	.17 67	.15 67	.11 67	.06 67	WEAK	KNOTS DEGREES
101	24	41° 14.433'N 72° 55.000'W	.26 32	.32 32	.31 32	.26 32	.20 32	.11 32	WEAK	.16 163	.31 163	.30 163	.22 163	.07 163	.11 32	KNOTS DEGREES
119	20	41° 5.217'N 73° 14.167'W	.22 265	.55 265	.77 265	.83 265	.72 265	.49 265	.17 265	.22 60	.55 60	.59 60	.49 60	.32 60	.09 60	KNOTS DEGREES
127	170	41° .383'N 73° 23.800'W	.24 188	.55 188	.71 188	.71 188	.63 188	.49 188	.31 188	.11 188	.17 54	.45 54	.53 54	.39 54	.10 54	KNOTS DEGREES
132	20	40° 59.933'N 73° 30.983'W	.16 107	.43 251	1.02 251	1.12 251	.98 251	.70 251	.34 251	.10 107	.83 107	1.00 107	.91 107	.74 107	.47 107	KNOTS DEGREES
132	40	40° 59.933'N 73° 30.983'W	.06 71	.39 247	.72 247	.84 247	.76 247	.55 247	.26 247	.13 71	.70 71	.89 71	.80 71	.62 71	.37 71	KNOTS DEGREES

(1) THE VALUES IN THE ABOVE TABLE ARE REFERENCED TO THE RACE, LONG ISLAND

Throgs Neck

TABLE OF EQUAL INTERVAL VALUES FOR STATION DEPTHS NOT SHOWN ON TIDAL CURRENT CHARTS. SPEEDS ARE AT SPRING TIDES AND DIRECTIONS ARE IN DEGREES TRUE.

STATION NO.	DEPTH (FT)	LATITUDE LONGITUDE	EQUAL INTERVALS AFTER SLACK EGG BEGINS (SEB) SEB	+1	+2	+3	+4	+5	EQUAL INTERVALS AFTER SLACK FLOOD BEGINS (SFB) SFB	+1	+2	+3	+4	+5	+6	
(1) 16F	29	40° 53.400'N 73° 46.300'W	.54 232	.46 232	.28 232	.06 232	.30 50	.58 50	.61 50	.54 50	.37 50	.14 50	.12 232	.38 232	.53 232	KNOTS DEGREES
145	70	40° 52.800'N 73° 44.750'W	.33 226	.31 226	.25 226	.16 226	WEAK	.09 25	.23 25	.37 25	.46 25	.48 25	.32 25	WEAK	.26 226	KNOTS DEGREES
146	100	40° 52.400'N 73° 44.000'W	.34 224	.21 224	.17 235	.07 235	WEAK	WEAK	WEAK	WEAK	WEAK	WEAK	WEAK	.34 224	.42 224	KNOTS DEGREES

(1) THE VALUES IN THE ABOVE TABLE ARE REFERENCED TO THROGS NECK, NEW YORK