

## **NOTE TO USER - 1977**

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Appended find:

January, 1977

February, 1977

March, 1977

April, 1977

May, 1977

June, 1977

MIAMI SFSS ANALYSIS OF THE GULF OF MEXICO LOOP CURRENT: 02 MAY 1977

PART A

CODED POINTS GIVE LATITUDE/LONGITUDE ALONG THE COASTWARD EDGE OF THE WARMER WATER.

226862 232863 247861 257852 263850 265844 260837 250836 244834 241828  
243825 241820 241815// \_\_\_\_\_  
\_\_\_\_\_

AREA of WM

ACTUAL FLOW

WATER BOUND BY:

242889/251899/

267896/277887/

280880/272868/

261869/242889//

N of MAIN LOOP

FLOW IS AN AREA

OF WM WATER

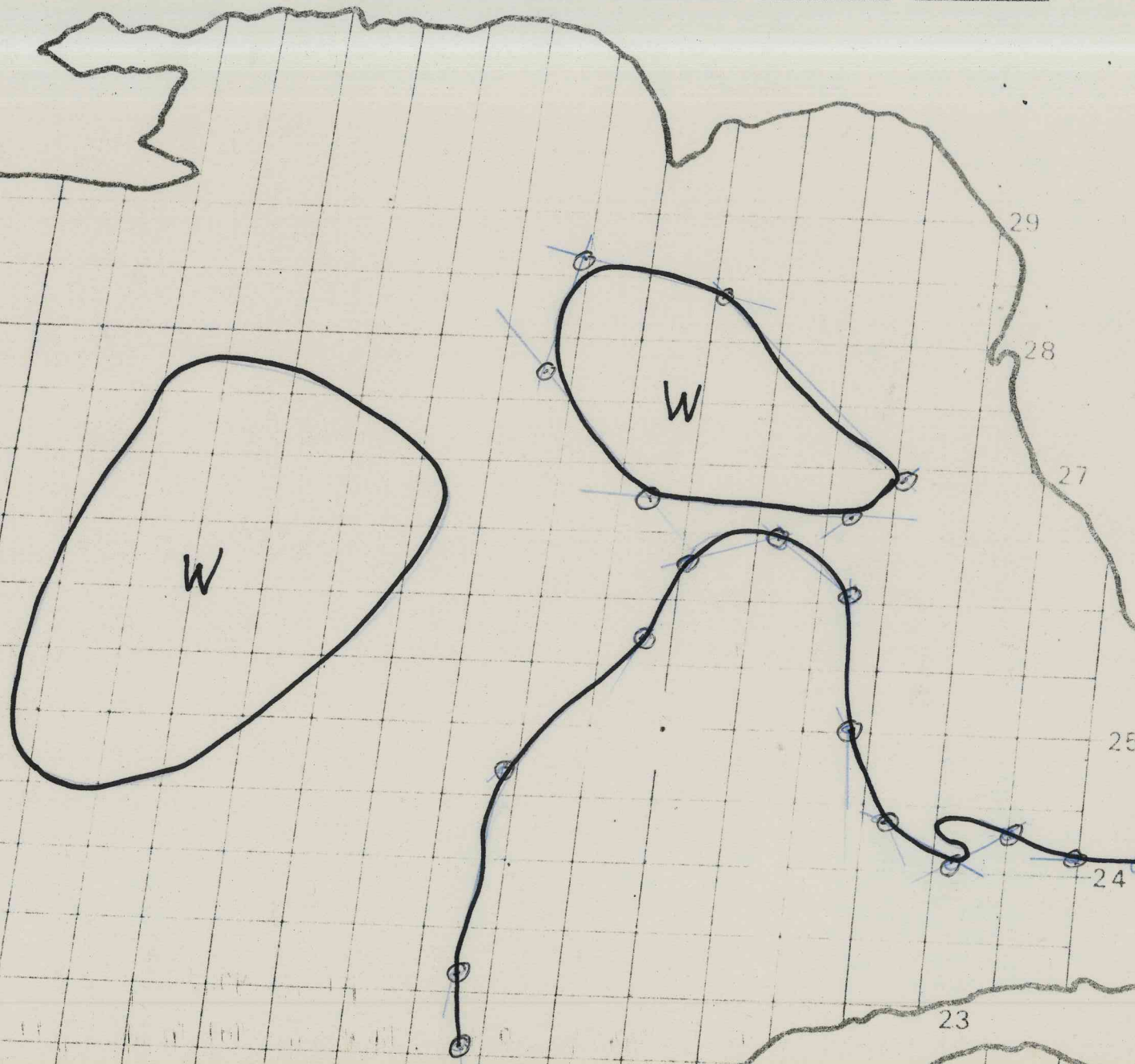
BOUND BY:

267853/272862/

286860/284849/

267835/266838/

267853/



CODED POINTS GIVE LATITUDE/LONGITUDE ALONG THE COASTWARD EDGE OF THE WARMER WATER.

27/1800 18/779 305800 315-795 320786 323775 330770 337764

341756 345750 351749 353747 362739

366738 374726 377702 381699 384673 380676

363678 363673

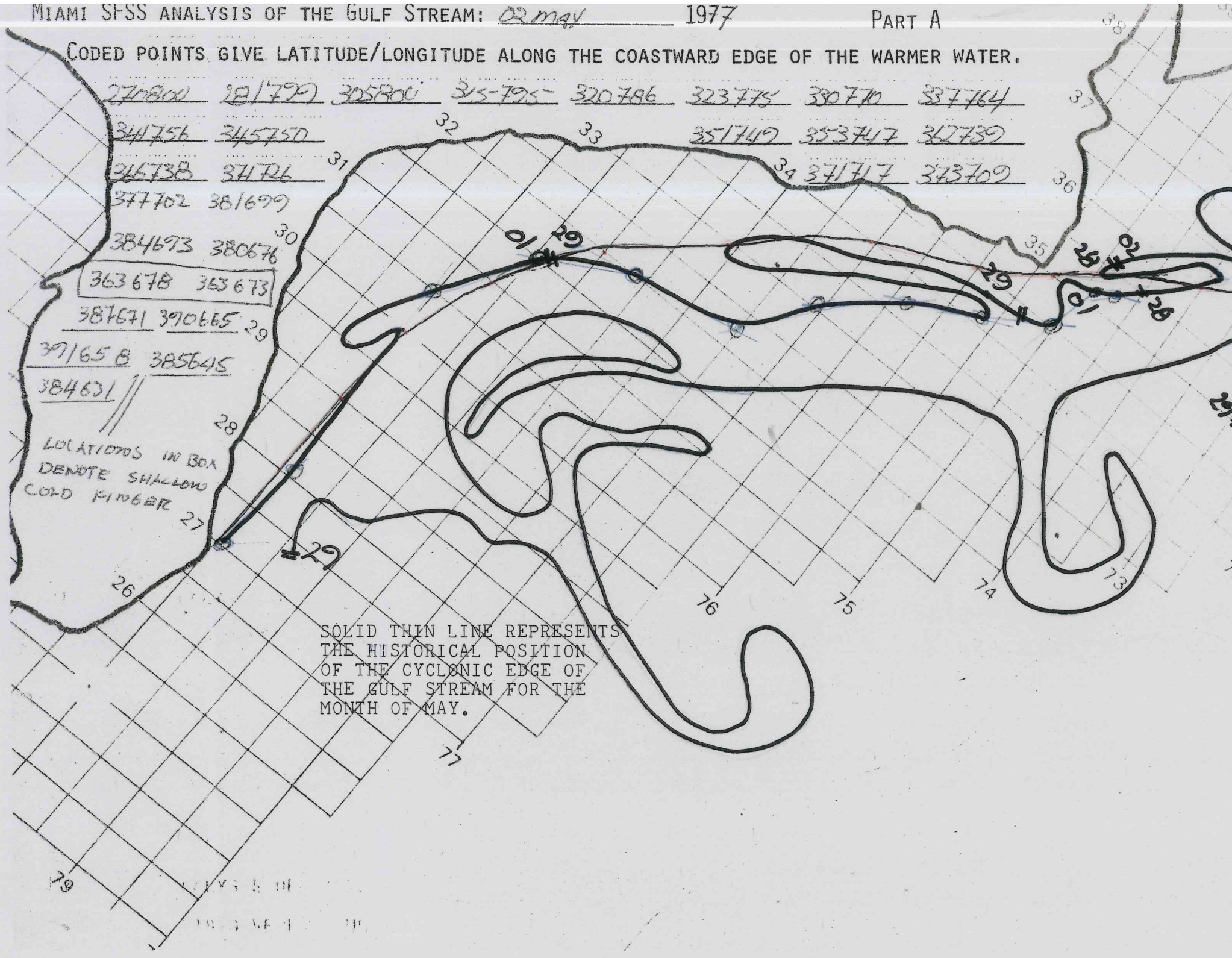
387671 390665

391658 385645

384631

LOCATIONS IN BOX  
DENOTE SHALLOW  
COLD FINGER

SOLID THIN LINE REPRESENTS  
THE HISTORICAL POSITION  
OF THE CYCLONIC EDGE OF  
THE GULF STREAM FOR THE  
MONTH OF MAY.



NNNNIV

ZOZC

SXNT1 KWBC 021955

GULF STREAM LOCATION - THE LINE DESCRIBED BY THE FOLLOWING  
SEQUENCE OF POINTS REPRESENTS THE WEST WALL OF THE GULF STREAM.

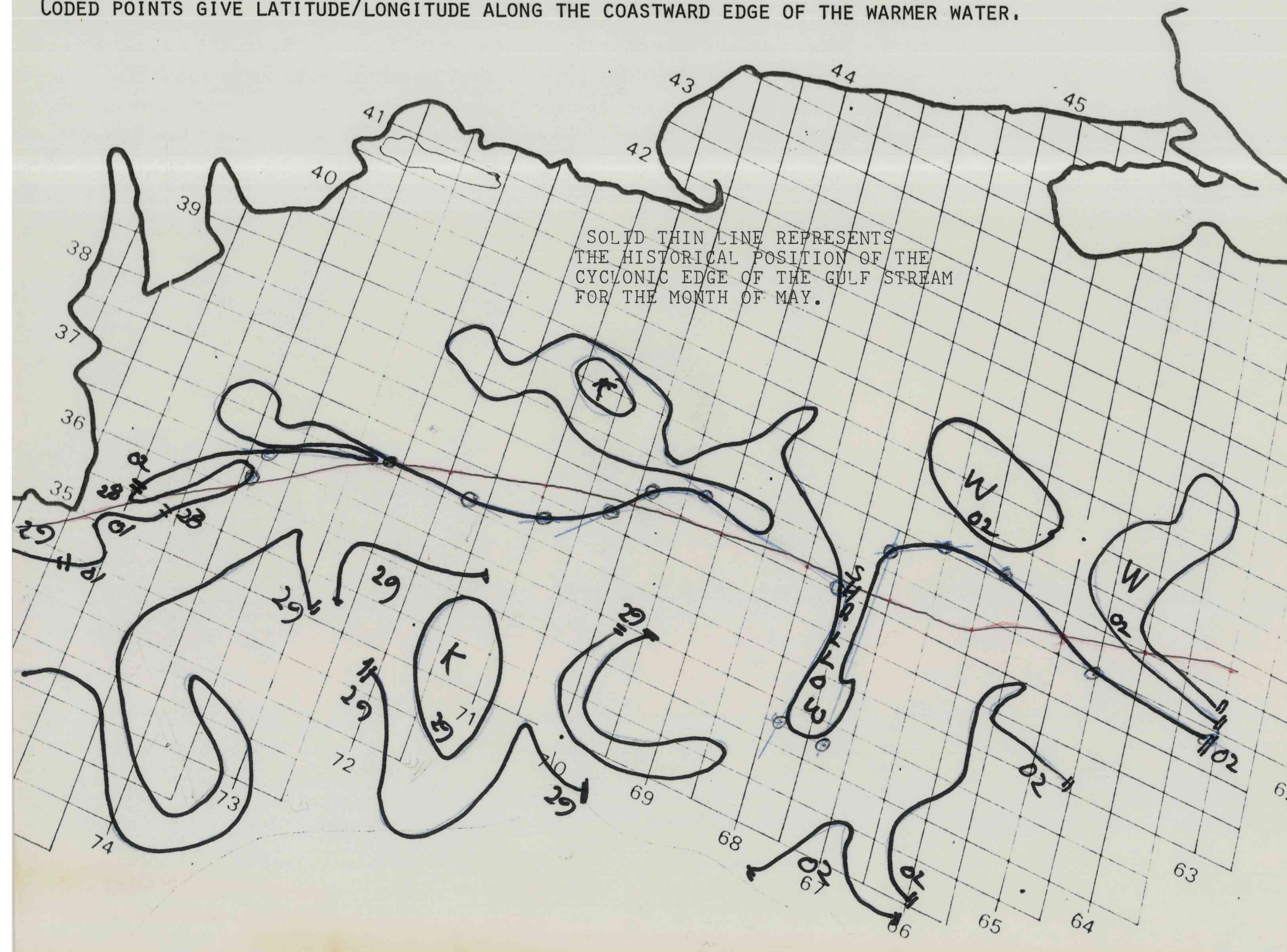
27.0/80.0	30.0/80.2	31.5/79.5	32.0/78.6
32.3/77.5	33.0/77.0	33.7/76.4	34.0/75.3
35.0/75.2	36.2/74.2	36.6/73.6	36.8/72.0
37.0/71.1	38.0/70.3	38.4/69.3	38.2/68.2
36.2/68.1	36.5/67.5	38.7/66.6	38.8/66.0
38.6/65.0			

THE MAXIMUM CURRENT OF THE GULF STREAM LIES BETWEEN 19-25KM  
SEAWARD OF THIS LINE. ANALYSIS DATE. 05/02/77 1930

NNNNI

CODED POINTS GIVE LATITUDE/LONGITUDE ALONG THE COASTWARD EDGE OF THE WARMER WATER.

SOLID THIN LINE REPRESENTS  
THE HISTORICAL POSITION OF THE  
CYCLONIC EDGE OF THE GULF STREAM  
FOR THE MONTH OF MAY.



## GULFSTREAM DISCUSSION

02 MAY 77

FM 32°N TO 34°N THE LARGE MEANDER KEEPS THE STREAM EAST OF THE HISTORICAL POSITION. THE MOST OUTSTANDING FEATURE SEEN TODAY IS THE SHALLOW COLD FINGER ALG 67.5°W, PROTRUDING S ALMOST 03° OF LATITUDE.

04 MAY 77

LTL CHG FM 02 MAY. COLD FINGER NR 67°W HAS TRANSLATED TO THE EAST ABT 20 MI OVR PAST 2 DAYS, INDICATING THAT THE FEATURE IS INDEED QUITE SHALLOW. IN ALL PROBABILITY THE MAIN CORE OF THE STREAM RUNS BENEATH THIS FEATURE, BUT THE SURFACE CURRENTS FLOW AROUND IT.

06 MAY 77

NOT MUCH NEW DATA PAST TWO DAYS, MSTLY BECAUSE OF CLD COVER. WHAT LITTLE THAT CAN BE SEEN HAS NOT CHANGED VERY MUCH EITHER!!

09 MAY 77

THE STREAM IS QUITE CLOSE TO THE MEAN POSITION WITH THE EXCEPTION OF THE PORTION BTN 32°N AND 35°N WHERE A SERIES OF MEANDERS MOVES THE SYCLONIC EDGE EWD UP TO 60 N. MI.

11 MAY 77

ONLY A SMALL PIECE OF DATA TODAY SHOWS THE MEANDER OFF THE CAROLINAS IN ABT THE SAME POSITION AS SEEN ON 09 MAY.

13 MAY 77

GOOD ANALYSIS N OF 29°N SHOWS THE STREAM OSCILLATING ABT THE MEAN POSITION, WITH THE GREATEST EXCURSIONS BTN 33.5°N AND CAPE HATTERAS.

16 MAY 77

THE STREAM VARIES ONLY SLIGHTLY FROM ITS MEAN POSITION, EXCEPT IN THE MEANDER BTN 32.5°N AND 34.8°N.

18 MAY 77

THE STREAM APPEARS SLIGHTLY SOUTH OF THE MEAN POSITION WHICH IS SOMEWHAT SUSPICIOUS, HOWEVER IT FITS THE DATA FROM MONDAY QUITE WELL. THE ONLY MAJOR DEVIATION FROM THE MEAN AGAIN IS IN THE OFF-ING OF THE CAROLINAS.

20 MAY 77

ONLY BITS AND PIECES OF DATA PAST TWO DAYS HAVE STREAM SOMEWHAT SOUTH OF THE MEAN POSITION N OF 32°N.

23 MAY 77.

THE STREAM CONTINUES TO DEVIATE FROM THE MEAN POSITION ONLY IN THE AREA BTN 32°N AND 34°N AND E OF 66°W.

25 MAY 77.

NO DATA SOUTH OF 35°N. LARGE COLD EDDY APPEARS NR ~~28~~ 37N60W.

27 MAY 77.

NO DATA S OF 36.5°N.

30 MAY 77.

WHERE IT CAN BE SEEN THE STREAM IS NEAR THE HISTORICAL POSITION, EXCEPT IN THE PORTIONS NEAR 71W AND 63W/

CODED POINTS GIVE LATITUDE/LONGITUDE ALONG THE COASTWARD EDGE OF THE WARMER WATER.

276799 290802 301800 310797 314790 324782 325773 333769

341761 346754 351750 357745 360741

365733 372730 374723 370714

373704 376701

384684 380677

373678 360674

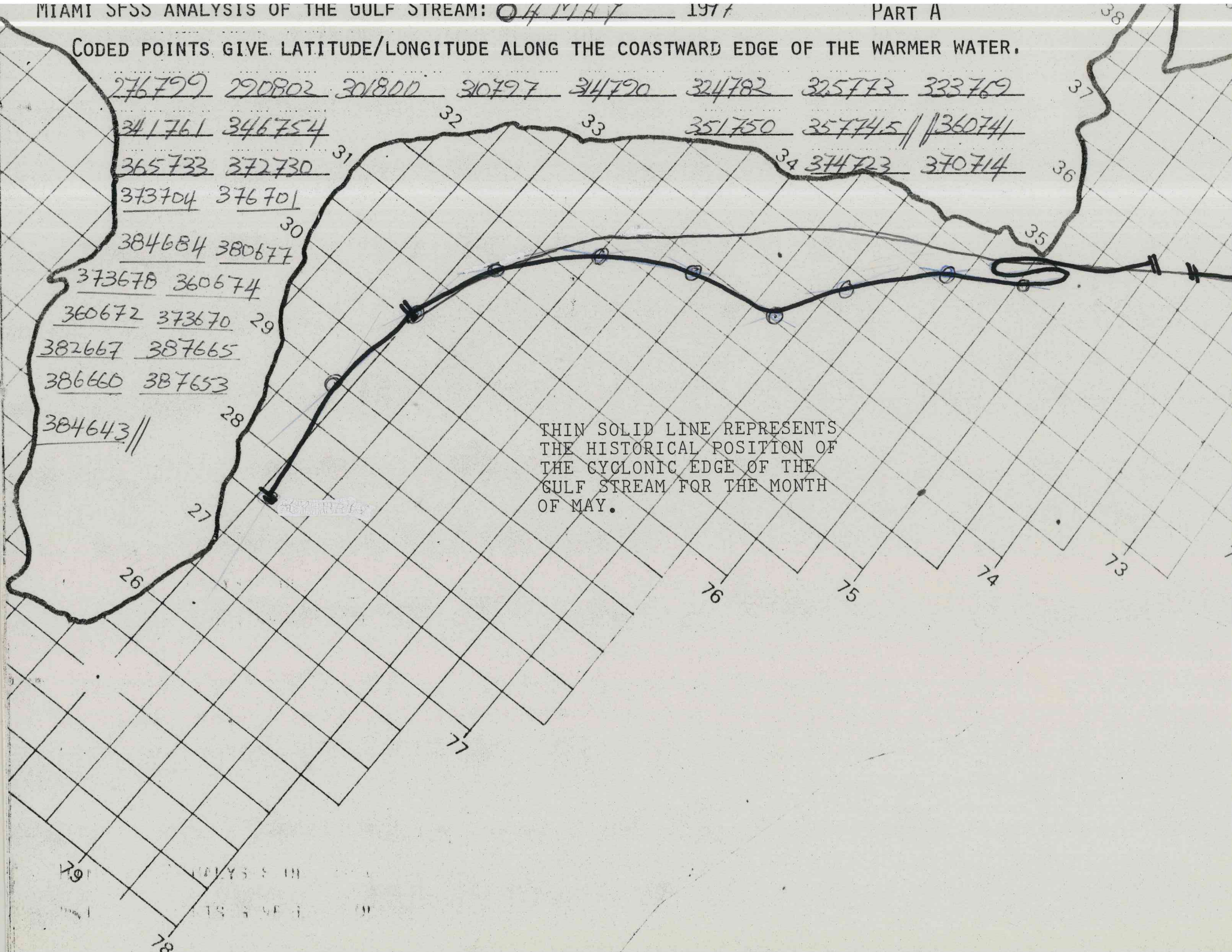
360672 373670 29

382667 387665

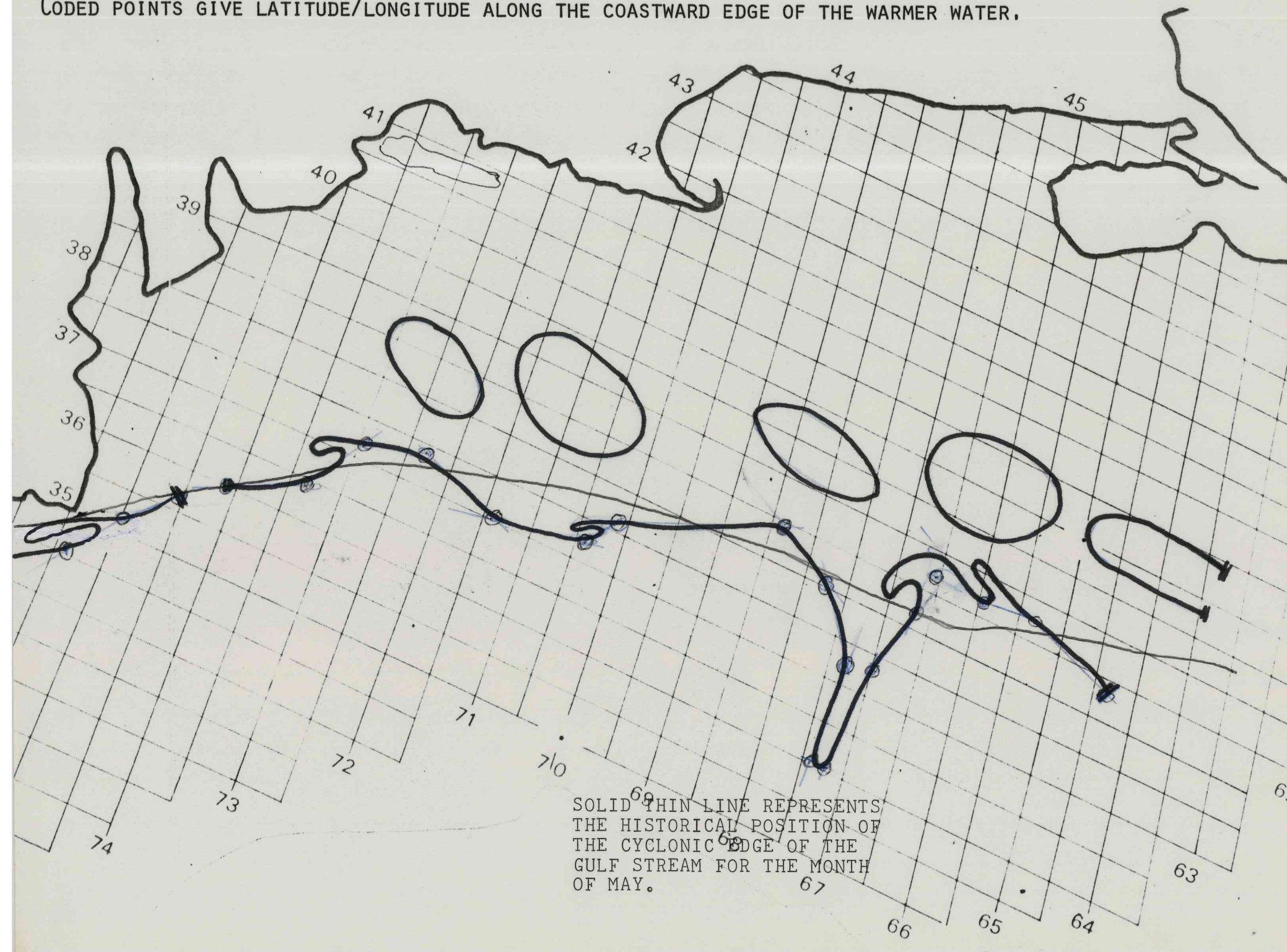
386660 387653

384643 //

THIN SOLID LINE REPRESENTS  
THE HISTORICAL POSITION OF  
THE CYCLONIC EDGE OF THE  
GULF STREAM FOR THE MONTH  
OF MAY.



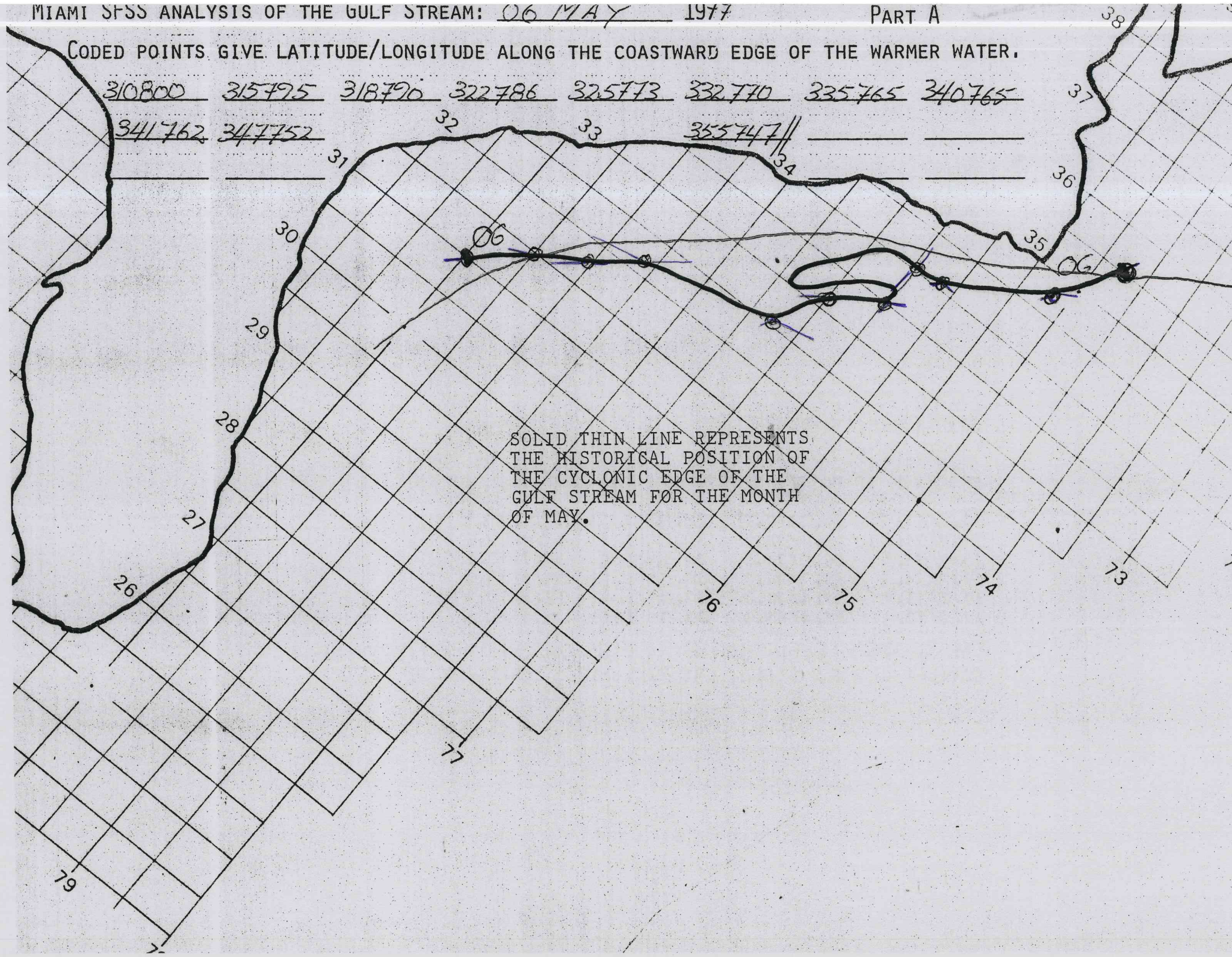
CODED POINTS GIVE LATITUDE/LONGITUDE ALONG THE COASTWARD EDGE OF THE WARMER WATER.



CODED POINTS GIVE LATITUDE/LONGITUDE ALONG THE COASTWARD EDGE OF THE WARMER WATER.

310800 315495 318790 322786 325773 332770 335765 340765

341762 347752



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V ↓

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SXNT1 MWBC 061850

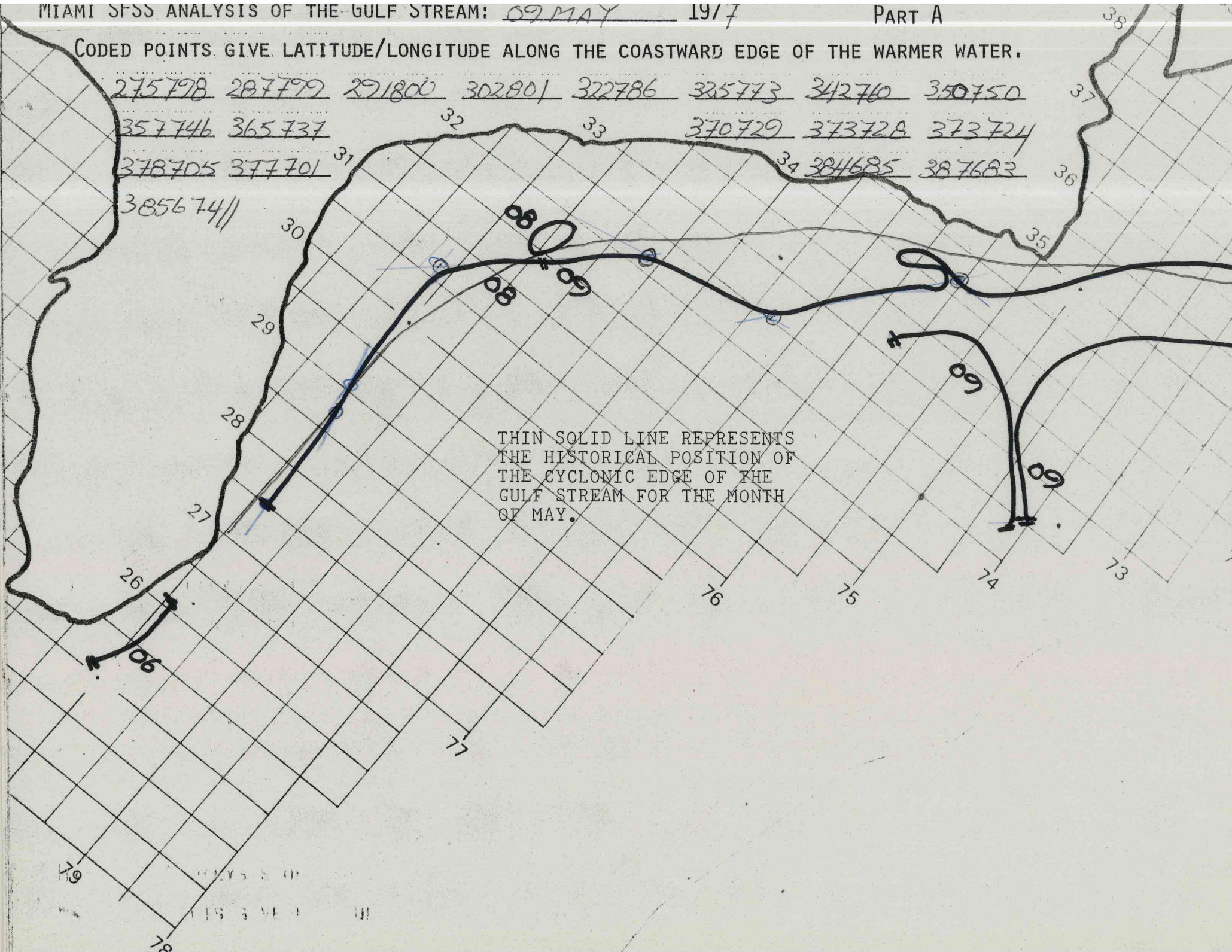
GULF STREAM LOCATION ↑ THE LINE DESCRIBED BY THE FOLLOWING  
SEQUENCE OF POINTS REPRESENTS THE WEST WALL OF THE GULF STREAM.

27.6/79.9	29.0/80.2	31.0/80.0	31.5/79.5
31.8/79.0	32.2/78.6	32.5/77.3	33.2/77.0
33.5/76.5	34.0/76.5	34.1/76.2	34.7/75.2
35.5/74.7	35.7/74.5	36.0/74.1	36.5/73.3
37.2/73.0	37.4/72.3	37.0/71.4	37.3/70.4
37.6/70.1	38.4/68.4	38.0/67.7	

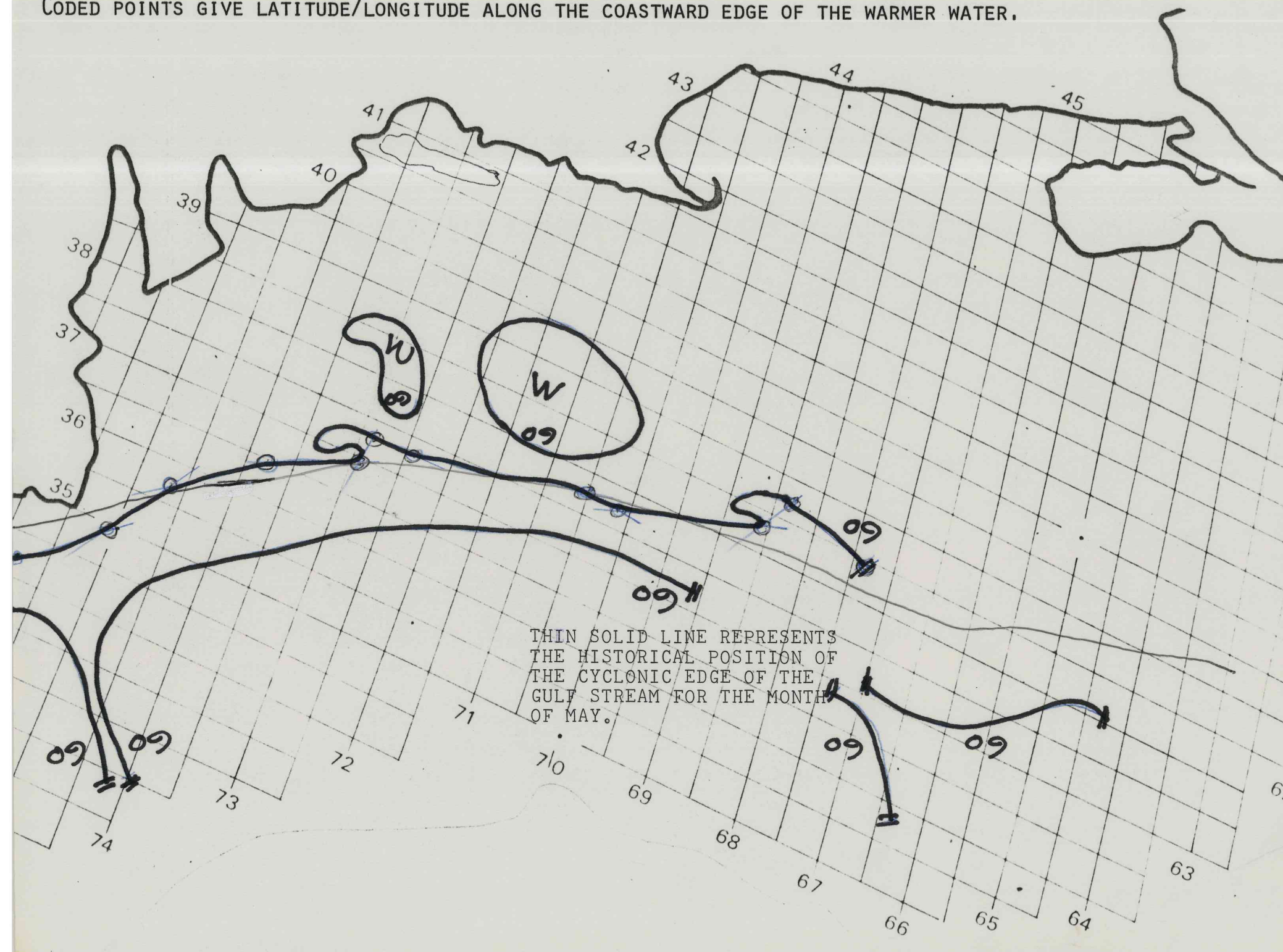
THE MAXIMUM CURRENT OF THE GULF STREAM LIES BETWEEN 19+25KM  
SEAWARD OF THIS LINE. ANALYSIS DATED 05/06/77 AT 1830

CODED POINTS GIVE LATITUDE/LONGITUDE ALONG THE COASTWARD EDGE OF THE WARMER WATER.

275798 287799 291800 302801 322786 325773 342760 350750  
357746 365737 370729 373728 373724  
378705 377701 384685 387683  
385674



CODED POINTS GIVE LATITUDE/LONGITUDE ALONG THE COASTWARD EDGE OF THE WARMER WATER.



LOOP CURRENT DISTUSSION

11 MAY 77

EXTSV CLD COVER AND WK THERMAL GRADIENT PREVENTS A GOOD ANALYSIS TODAY.

13 MAY 77.

NOTHING PAST TWO DAYS TO IMPROVE ON 09 MAY.

16 MAY 77

MODERATELY GOOD ANALYSIS PAST 03 DAYS.

18 MAY 77

NO NEW DATA PAST TWO DAYS.

20 MAY 77

NO NEW DATA PAST 02 DAYS.

23 MAY 77.

ENOUGH PIECES PAST 03 DAYS TO MAKE A FAIR ANALYSIS. THE THERMAL GRADIENT IS BECOMING VERY WEAK.

25 MAY

GOOD ANALYSIS PAST 02 DAYS.

MIAMI SFSS ANALYSIS OF THE GULF OF MEXICO LOOP CURRENT: MAY 12 1977

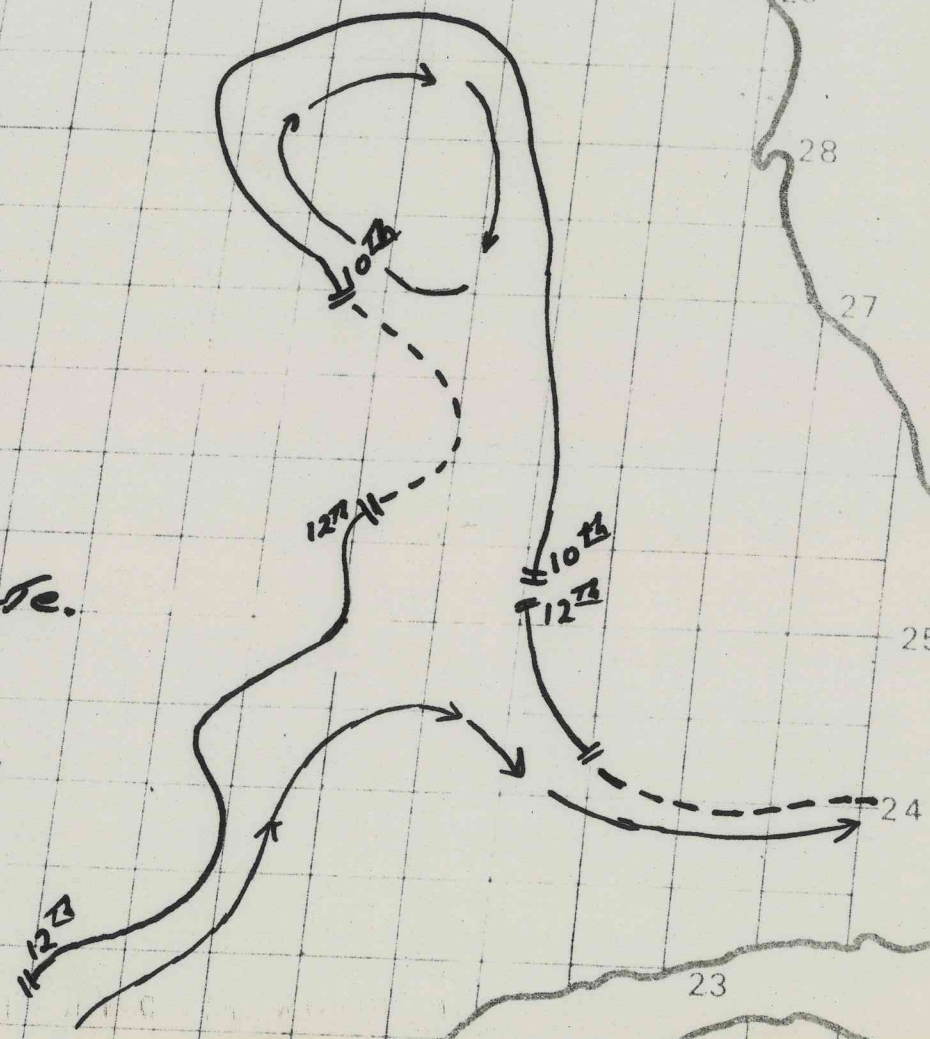
PART A

CODED POINTS GIVE LATITUDE/LONGITUDE ALONG THE COASTWARD EDGE OF THE WARMER WATER.

DATA between  
MAY 9-12 has been  
SPORADIC with questionable  
THERMAL Location due to  
cloud cover.

This is the best  
COMPOSITE ANALYSIS to date.

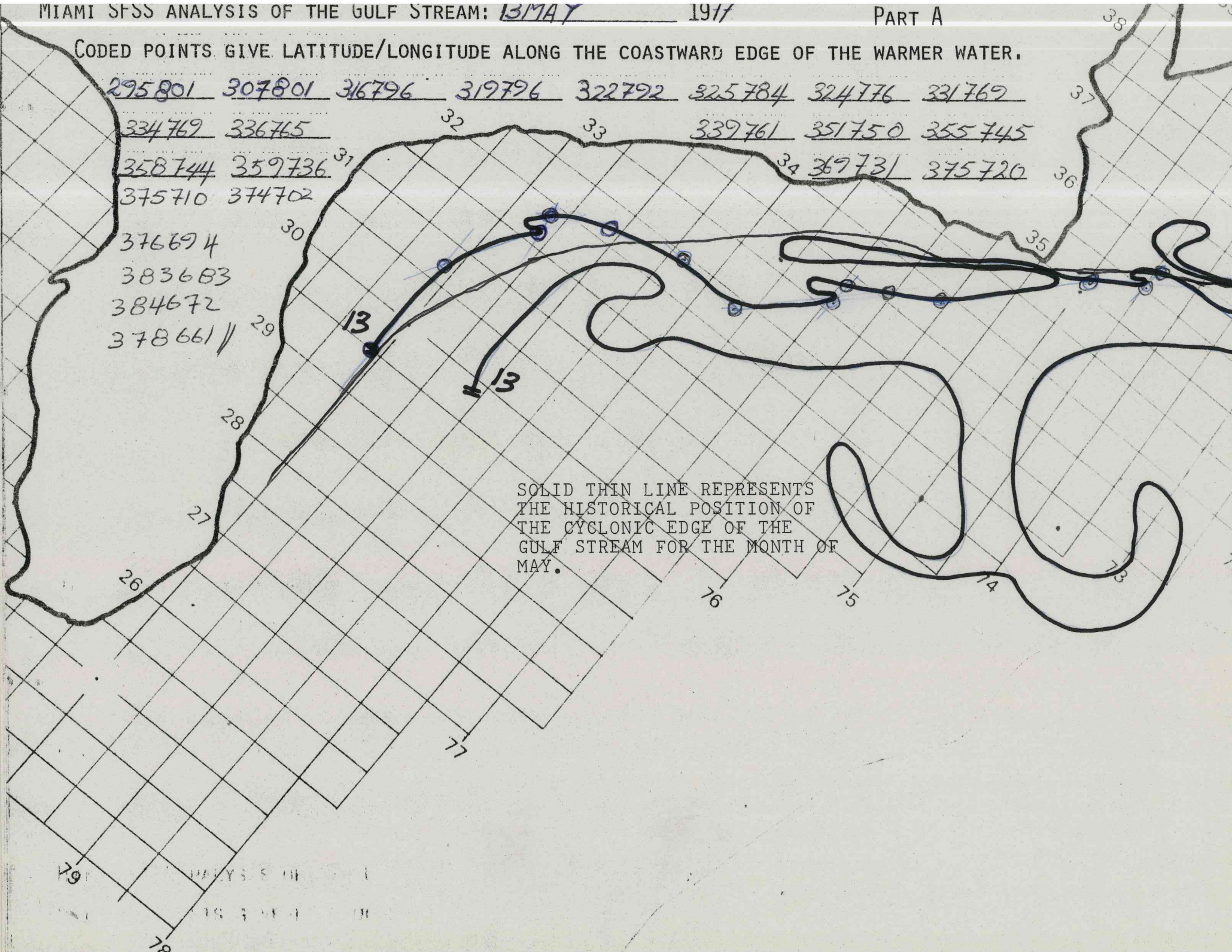
||-----|| ~ Forecast Position



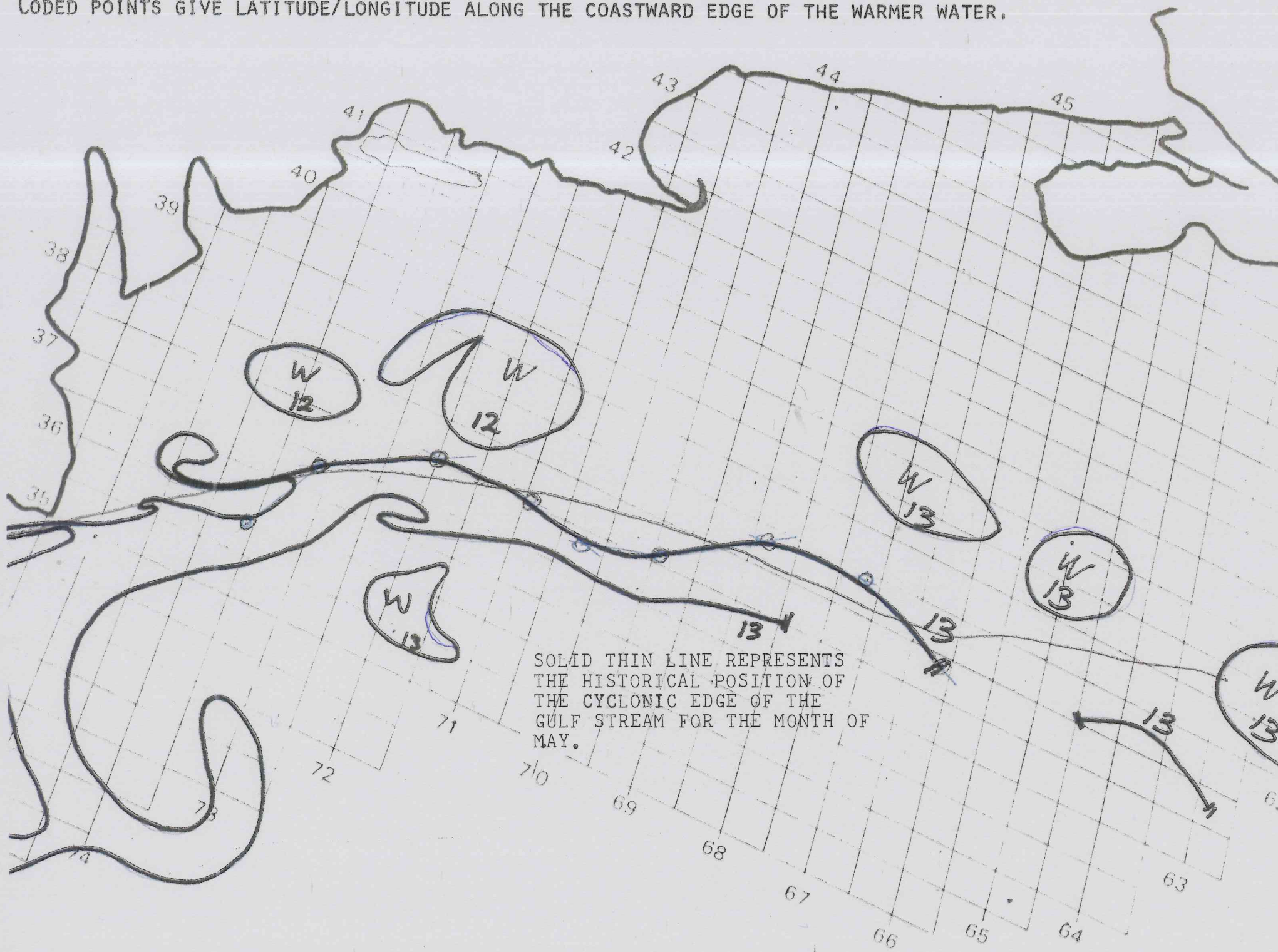
CODED POINTS GIVE LATITUDE/LONGITUDE ALONG THE COASTWARD EDGE OF THE WARMER WATER.

295801 307801 316796 319796 322792 325784 324776 331769  
334769 336765 339761 351750 355745  
358744 359736 369731 375720  
375710 374702  
376694  
383683  
384672  
378661 //

SOLID THIN LINE REPRESENTS  
THE HISTORICAL POSITION OF  
THE CYCLONIC EDGE OF THE  
GULF STREAM FOR THE MONTH OF  
MAY.



CODED POINTS GIVE LATITUDE/LONGITUDE ALONG THE COASTWARD EDGE OF THE WARMER WATER.



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SXNTI KWBC 132034  
GULF STREAM LOCATION

THE LINE DESCRIBED BY THE FOLLOWING SEQUENCE OF POINTS  
REPRESENTS THE WEST WALL OF THE GULF STREAM.

29.5/80.1	30.7/80.1	31.6/79.6	31.9/79.6
32.2/79.2	32.5/78.4	32.4/77.6	33.1/76.9
33.4/76.9	33.6/76.5	33.9/76.1	35.1/75.0
35.5/74.5	35.8/74.4	35.9/73.6	36.9/73.1
37.5/72.0	37.5/71.0	37.4/70.2	37.6/69.4
38.3/68.3	38.4/67.2	37.8/66.1	

THE MAXIMUM CURRENT OF THE GULF STREAM LIES BETWEEN 19 TO 25  
KM SEAWARD OF THIS LINE. ANALYSIS DATE 05/13/77 AT 2030

MIAMI SFSS ANALYSIS OF THE GULF OF MEXICO LOOP CURRENT: 16 MAY 1977

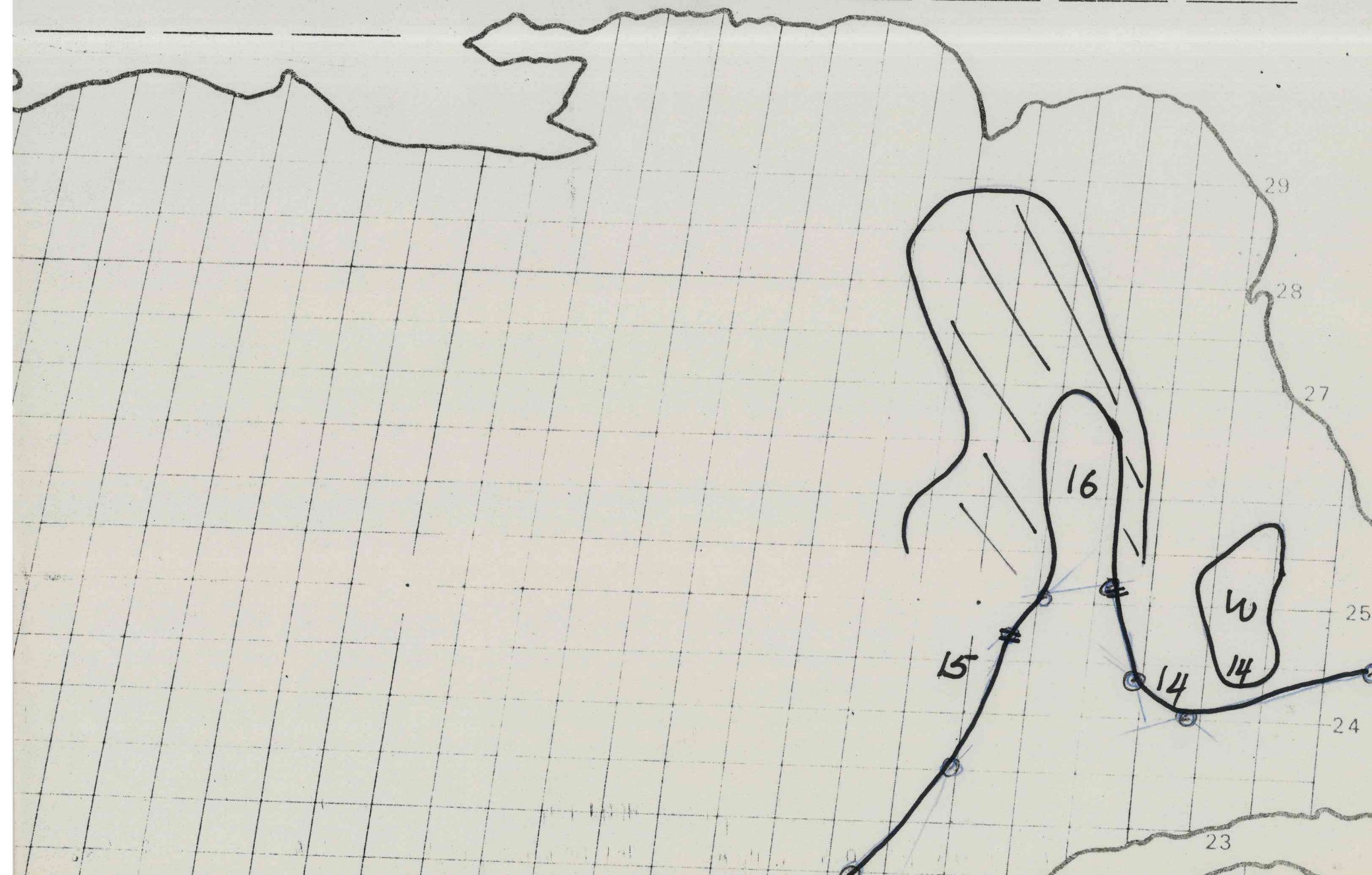
PART A

CODED POINTS GIVE LATITUDE/LONGITUDE ALONG THE COASTWARD EDGE OF THE WARMER WATER.

225858 235850 247847 251845 257838 244836 240831 245816 // \_\_\_\_\_

\_\_\_\_\_

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MIAMI SFSS ANALYSIS OF THE GULF STREAM: 16 MAY 1977

PART A

CODED POINTS GIVE LATITUDE/LONGITUDE ALONG THE COASTWARD EDGE OF THE WARMER WATER.

275800 310800 312797 320794 323787 326786 326772 333769

342758 344753

371729 375720

376706 375700

385685

386665

374650 382636

378630

THE THIN SOLID LINE REPRESENTS  
THE MEAN POSITION OF THE  
CYCLONIC EDGE OF THE GULF STREAM  
FOR THE MONTH OF MAY.

June 3  
WPB - GBT  
GBT - Canoe  
Chue to  
Hett  
make little

4V

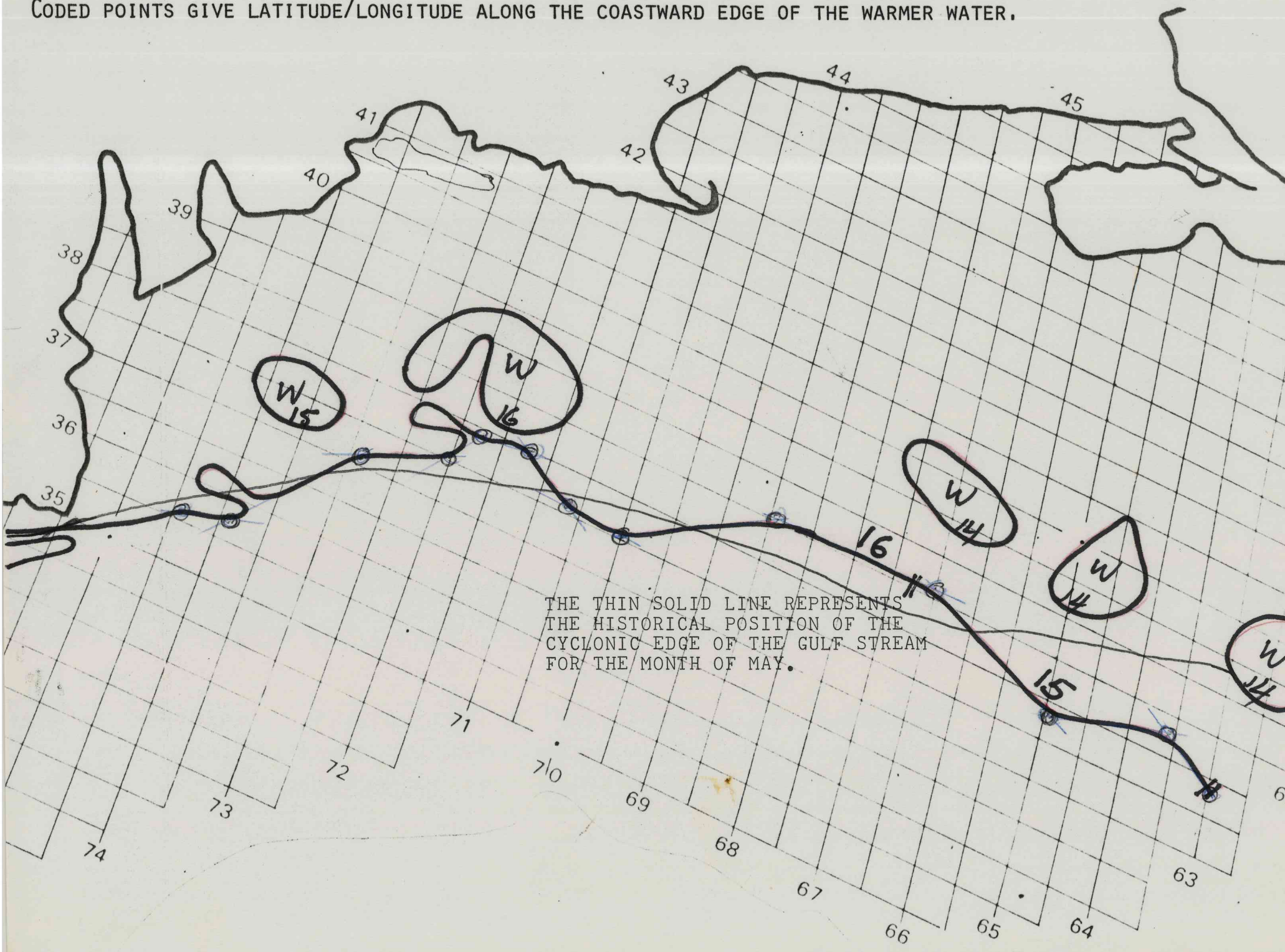
ZCZC  
SXNTI KWBC 162045

GULF STREAM LOCATION THE LINE DESCRIBED BY THE FOLLOWING  
SEQUENCE OF POINTS REPRESENTS THE WEST WALL OF THE GULF STREAM.

27.0/80.0	30.0/80.1	30.5/80.0	32.4/79.1
32.5/77.5	33.1/76.5	33.5/76.0	34.3/76.0
34.3/75.4	35.3/75.0	36.2/73.8	36.7/73.0
37.5/72.4	37.5/71.6	37.8/71.2	37.7/70.0
37.9/69.4	38.1/69.0	38.2/68.3	

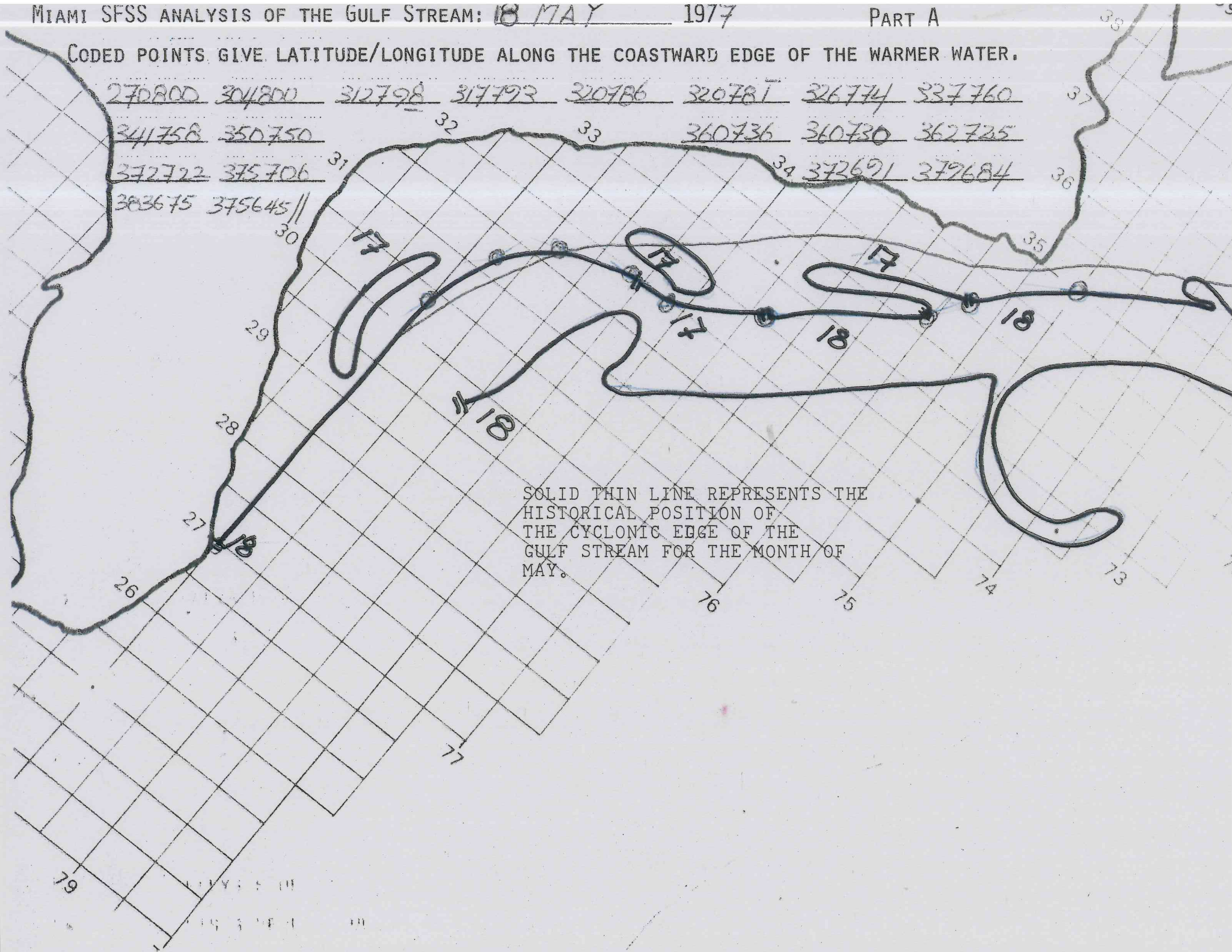
THE MAXIMUM CURRENT OF THE GULF STREAM LIES BETWEEN 19 25 KM  
SEAWARD OF THIS LINE. ANALYSIS DATE 05/16/77

CODED POINTS GIVE LATITUDE/LONGITUDE ALONG THE COASTWARD EDGE OF THE WARMER WATER.



CODED POINTS GIVE LATITUDE/LONGITUDE ALONG THE COASTWARD EDGE OF THE WARMER WATER.

270800	304800	312798	317793	320786	320781	326774	337760
341758	350750				360736	360730	362725
372722	375706				372691	379684	
383675	375645						



SOLID THIN LINE REPRESENTS THE HISTORICAL POSITION OF THE CYCLONIC EDGE OF THE GULF STREAM FOR THE MONTH OF MAY.

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SXNTI KWBC 132023

GULF STREAM LOCATION

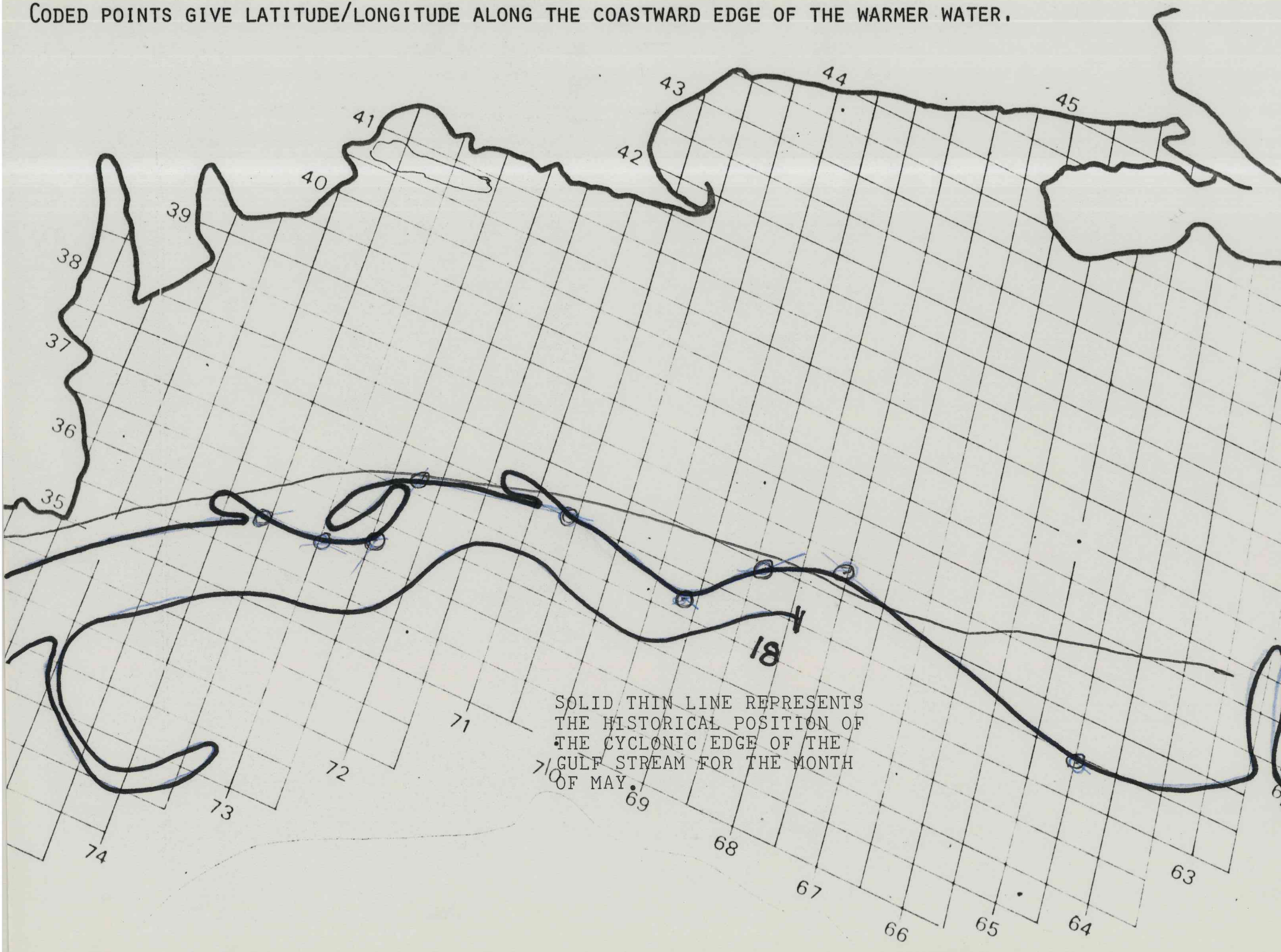
THE LINE DESCRIBED BY THE FOLLOWING SEQUENCE OF POINTS  
REPRESENTS THE WEST WALL OF THE GULF STREAM.

27.0/80.0	30.4/80.0	31.2/79.8	31.7/79.3
32.0/78.6	32.0/78.1	32.6/77.4	33.7/76.0
34.1/75.8	35.0/75.0	36.0/73.6	36.0/73.0
36.2/72.5	37.2/72.2	37.5/70.6	37.2/69.1
37.9/68.4	38.3/67.5	37.5/64.5	

THE MAXIMUM CURRENT OF THE GULF STREAM LIES BETWEEN 19 AND  
25KM SEWARD OF THIS LINE. ANALYSIS DATE 05/13/77 AT 2030

BT  
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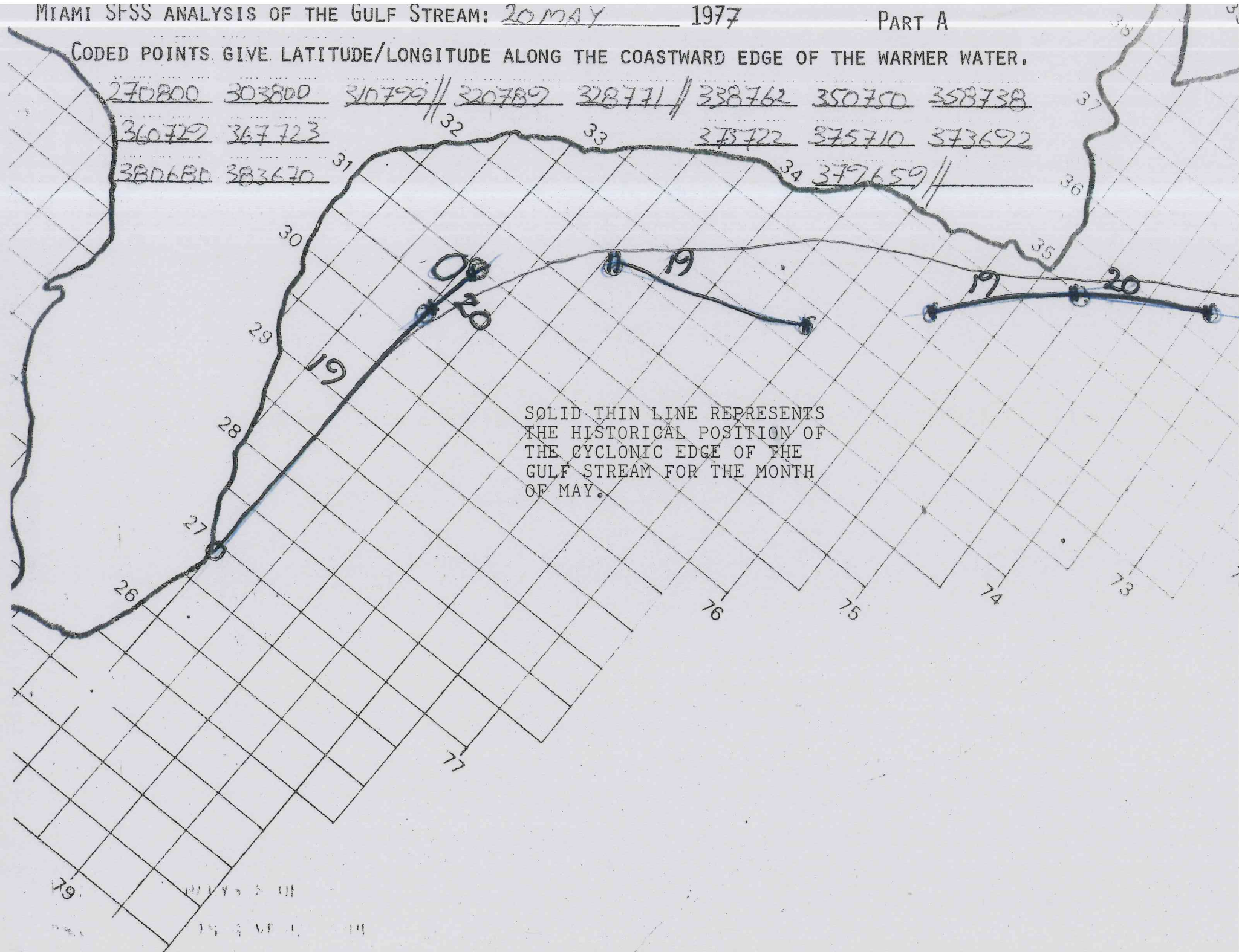
CODED POINTS GIVE LATITUDE/LONGITUDE ALONG THE COASTWARD EDGE OF THE WARMER WATER.



SOLID THIN LINE REPRESENTS  
THE HISTORICAL POSITION OF  
THE CYCLONIC EDGE OF THE  
GULF STREAM FOR THE MONTH  
OF MAY.

CODED POINTS GIVE LATITUDE/LONGITUDE ALONG THE COASTWARD EDGE OF THE WARMER WATER.

<u>270800</u>	<u>303800</u>	<u>310799</u>	<u>320789</u>	<u>328771</u>	<u>338762</u>	<u>350750</u>	<u>358738</u>
<u>360729</u>	<u>367723</u>				<u>375722</u>	<u>375710</u>	<u>373692</u>
<u>380680</u>	<u>383670</u>					<u>379659</u>	



SOLID THIN LINE REPRESENTS  
THE HISTORICAL POSITION OF  
THE CYCLONIC EDGE OF THE  
GULF STREAM FOR THE MONTH  
OF MAY.

MIAMI SFSS

15 MAY 1977

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SXNTI KWBC 201730

GULF STREAM LOCATION † THE LINE DESCRIBED BY THE FOLLOWING  
SEQUENCE OF POINTS REPRESENTS THE WEST WALL OF THE UGULF STREAM.

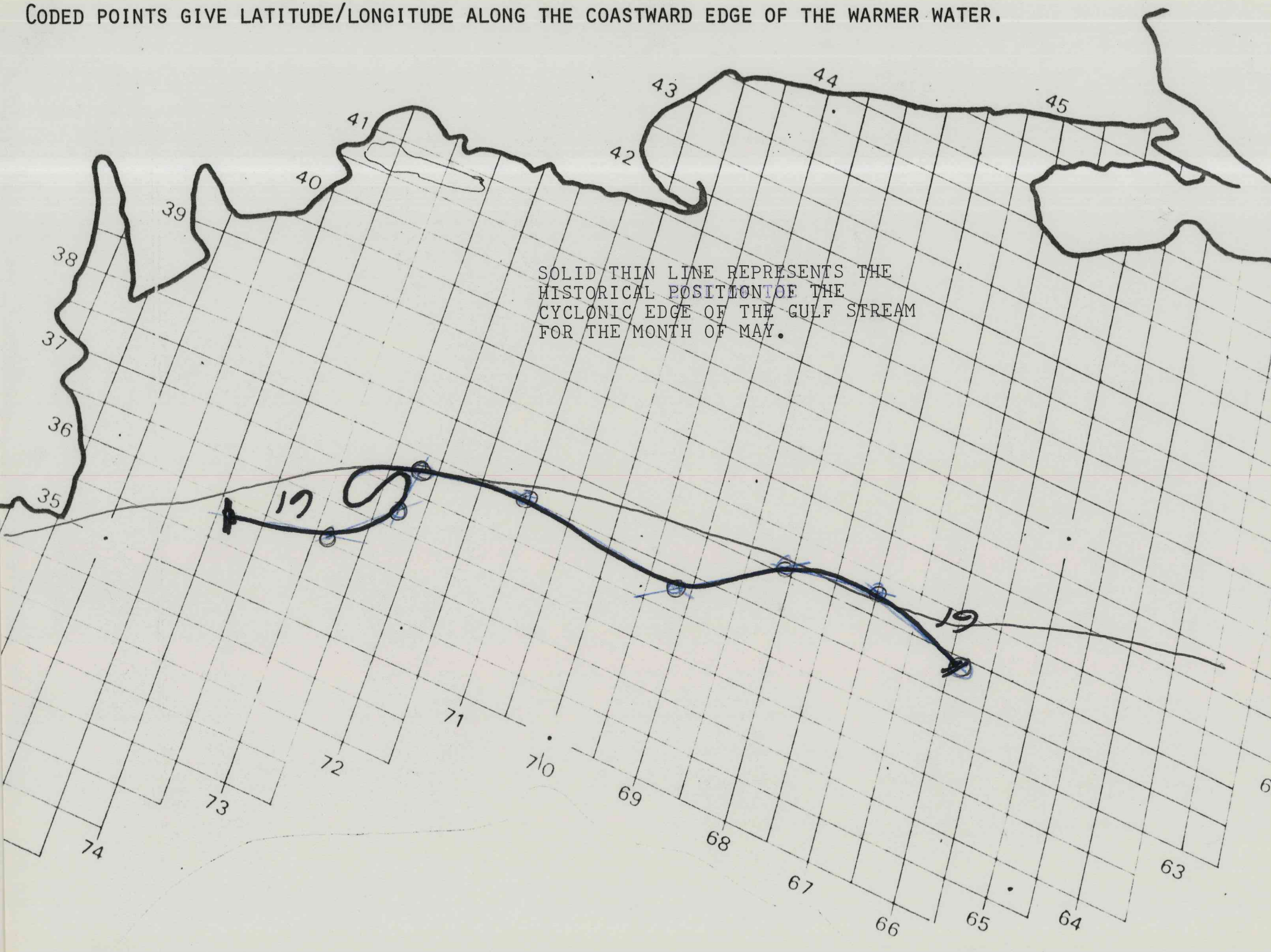
27.0/80.0	30.4/80.0	31.2/79.8	31.7/79.3
32.0/78.6	32.0/78.1	32.6/77.4	33.7/76.0
34.1/75.8	35.0/75.0	35.3/74.9	36.1/74.0
36.8/72.4	37.5/71.9	37.5/70.6	37.2/69.1

THE MAXIMUM CURRENT OF THE GULF STREAM LIES BETWEEN 19†25KM  
SEAWARD OF THIS LINE. ANALYSIS DATEO 05/20/77 AT 1700  
RLM

NNNN

CODED POINTS GIVE LATITUDE/LONGITUDE ALONG THE COASTWARD EDGE OF THE WARMER WATER.

SOLID THIN LINE REPRESENTS THE  
HISTORICAL POSITION OF THE  
CYCLONIC EDGE OF THE GULF STREAM  
FOR THE MONTH OF MAY.

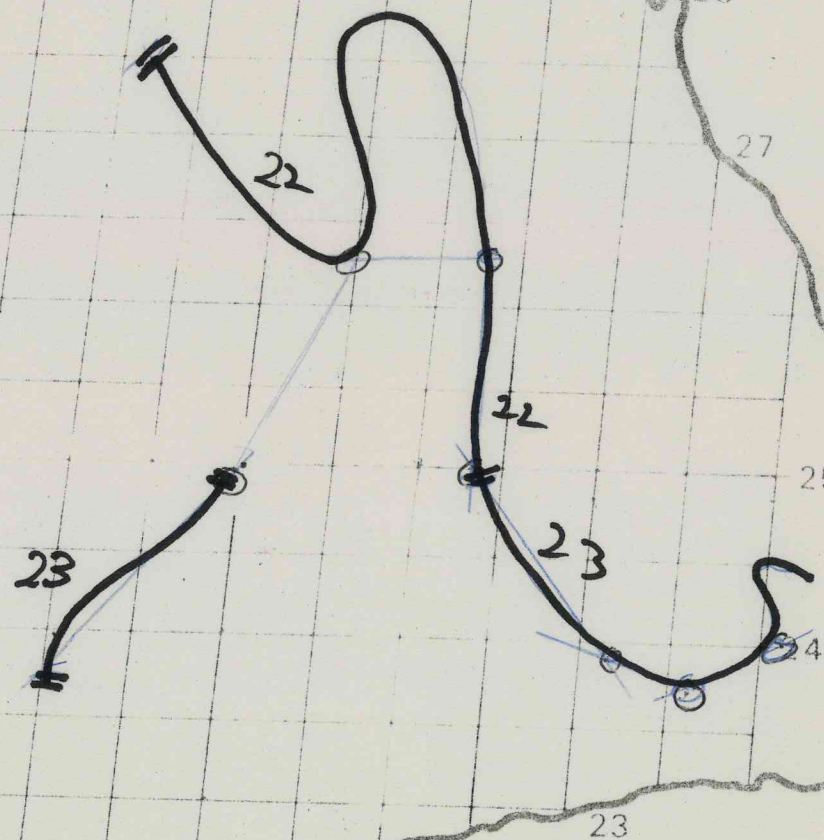


MIAMI SFSS ANALYSIS OF THE GULF OF MEXICO LOOP CURRENT: 23 MAY 1977

PART A

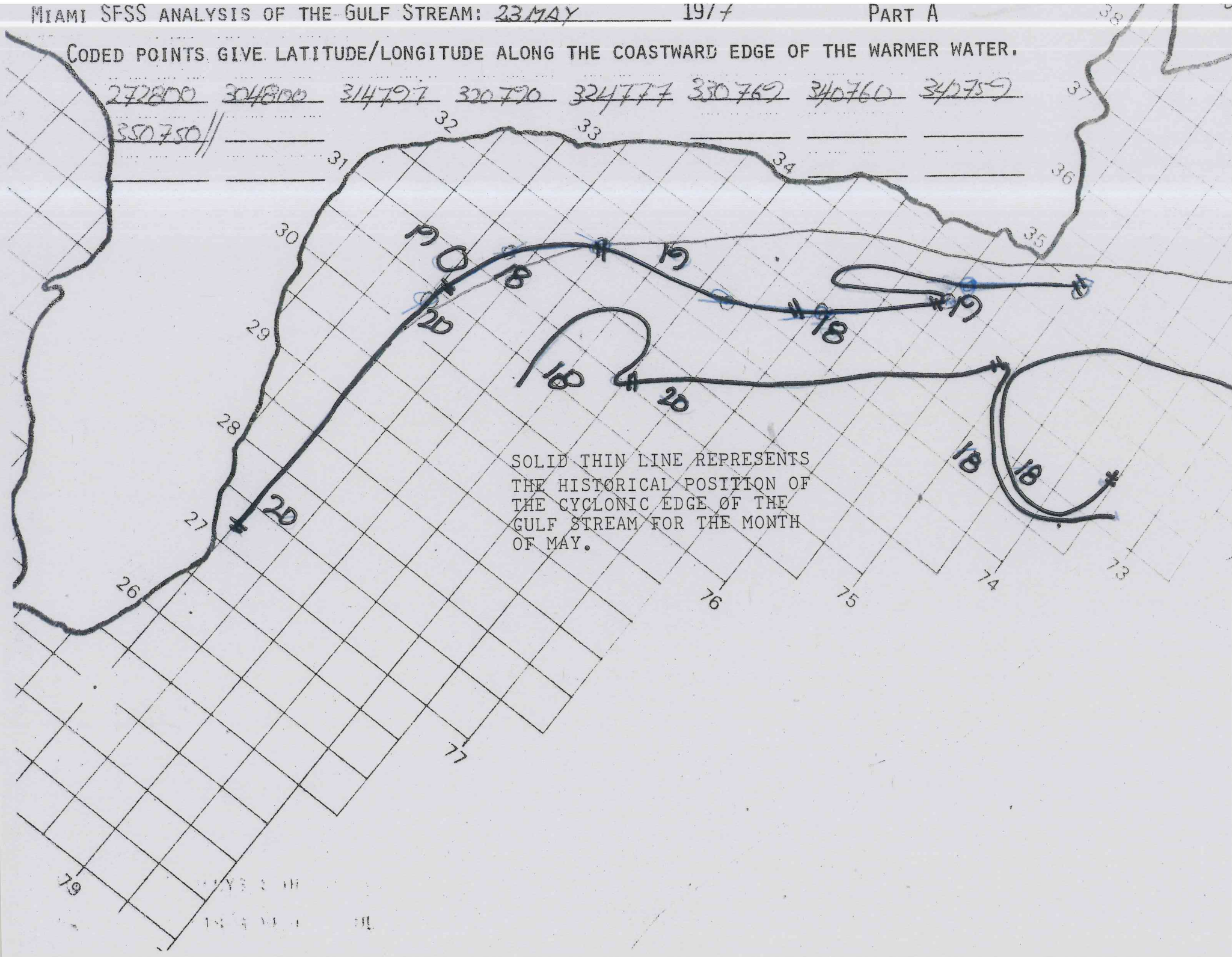
CODED POINTS GIVE LATITUDE/LONGITUDE ALONG THE COASTWARD EDGE OF THE WARMER WATER.

237860 250850 ~~241850~~ 263845 263837 250836 239828 237824 240819 //



CODED POINTS GIVE LATITUDE/LONGITUDE ALONG THE COASTWARD EDGE OF THE WARMER WATER.

272800 304800 314797 320790 324777 330769 340760 342759  
350750//





ZCZC

SXNTI KWBC 232031

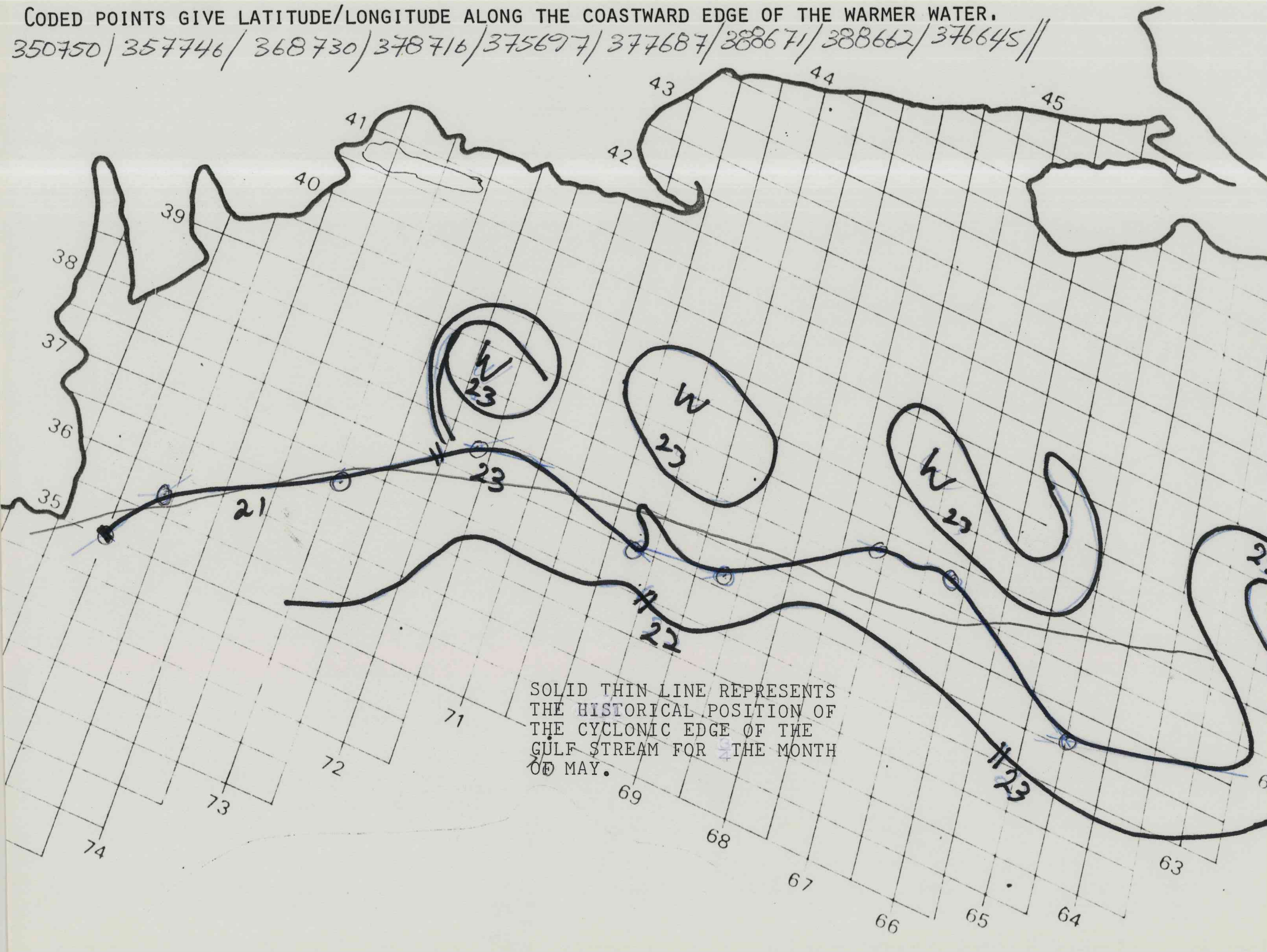
GULF STREAM LOCATION THE LINE DESCRIBED BY THE FOLLOWING  
SEQUENCE OF POINTS REPRESENTS THE WEST WALL OF THE GULF STREAM.

27.0/80.0	30.4/80.0	31.2/79.8	31.7/79.3
32.0/78.6	32.0/78.1	32.6/77.4	33.7/76.0
34.1/75.8	35.0/75.0	35.7/74.6	36.8/73.0
37.8/71.6	37.5/69.7	37.7/68.7	38.8/67.1
38.8/66.2	37.6/64.5		

THE MAXIMUM CURRENT OF THE GULF STREAM LIES BETWEEN 19/25KM  
SEAWARD OF THIS LINE. ANALYSIS DATE 05/23/77 2030Z

CODED POINTS GIVE LATITUDE/LONGITUDE ALONG THE COASTWARD EDGE OF THE WARMER WATER.

350750/357746/368730/378716/375697/377687/388671/388662/376645//

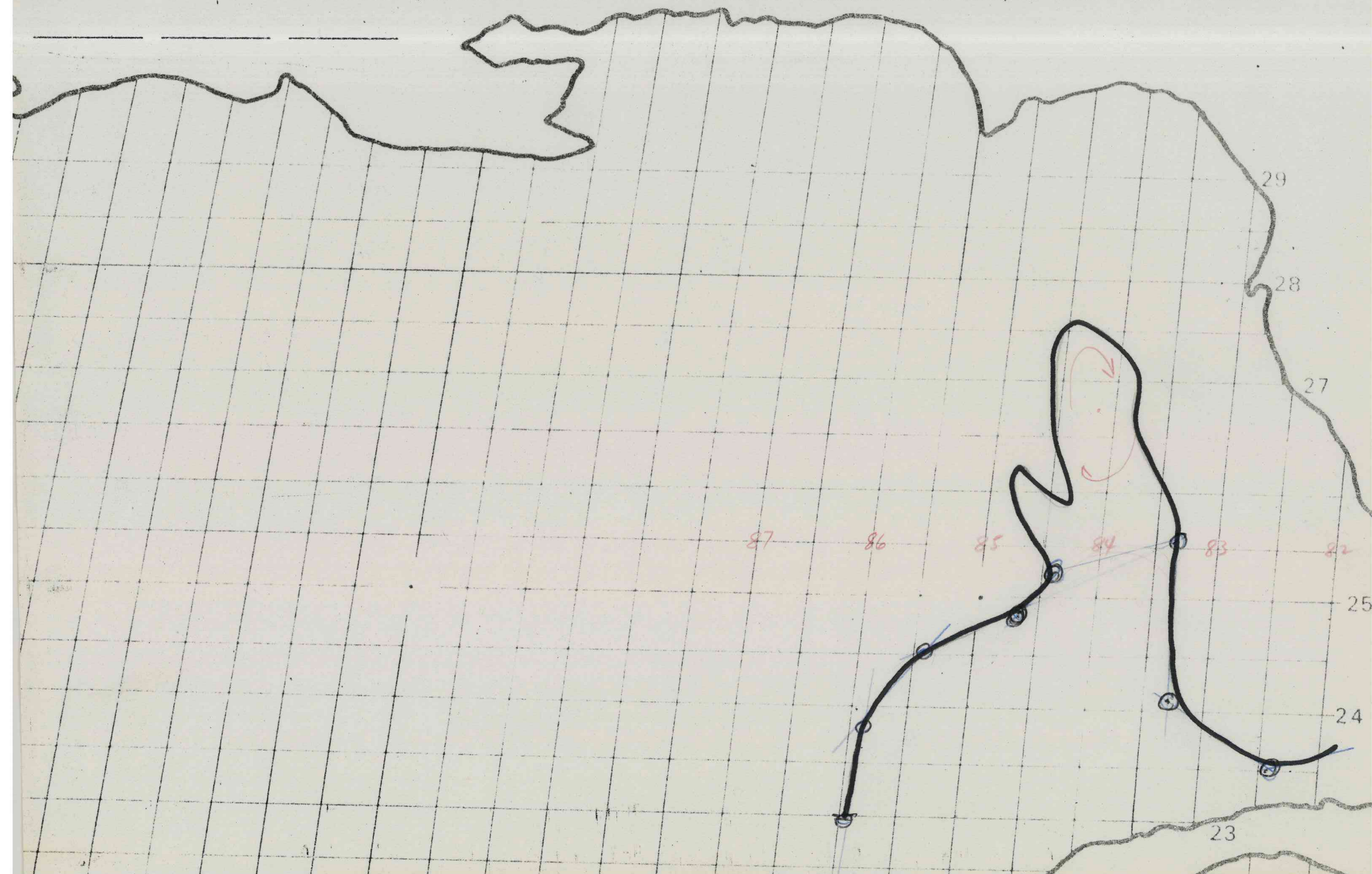


MIAMI SFSS ANALYSIS OF THE GULF OF MEXICO LOOP CURRENT: 25 MAY 1977

PART A

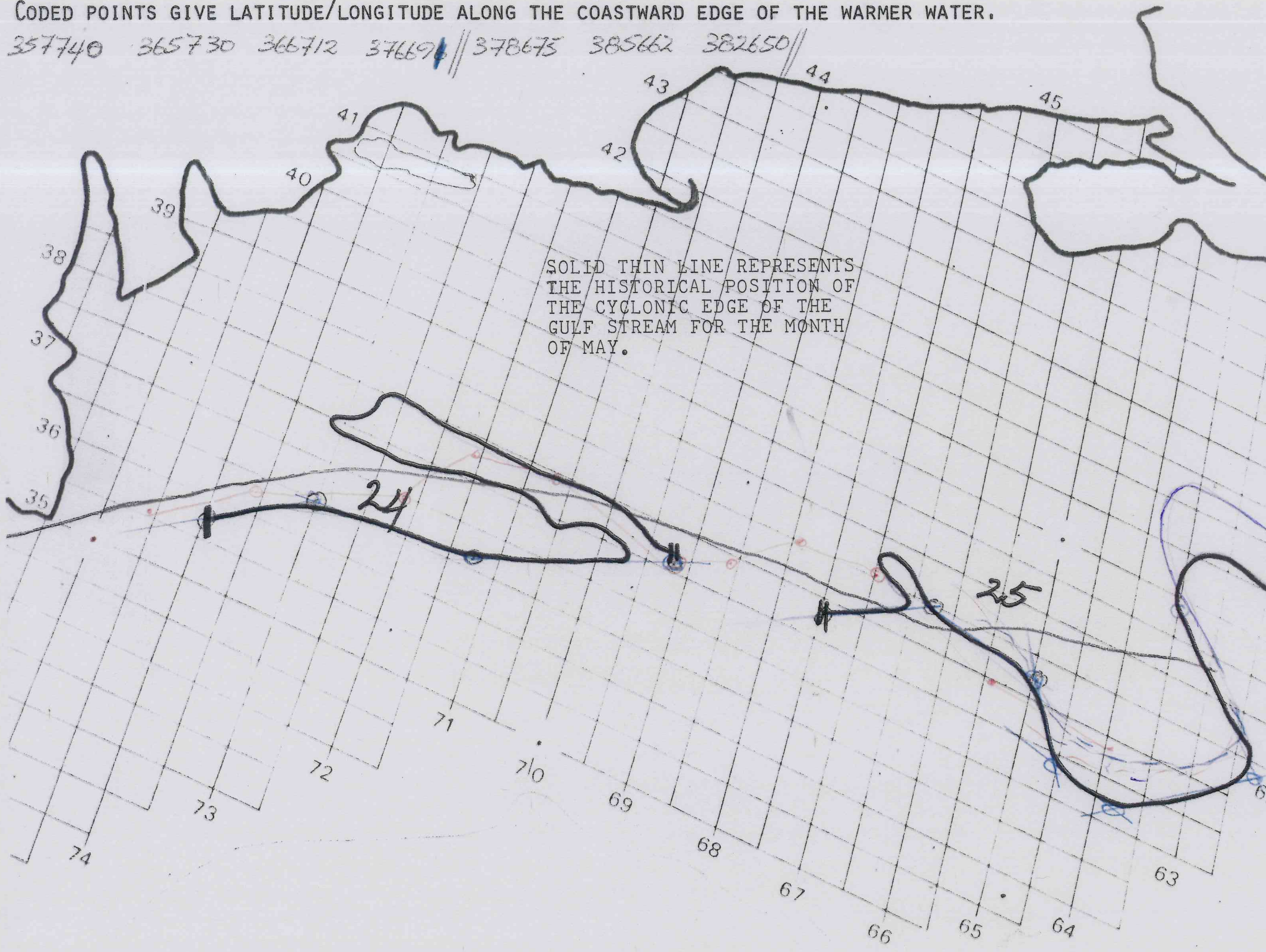
CODED POINTS GIVE LATITUDE/LONGITUDE ALONG THE COASTWARD EDGE OF THE WARMER WATER.

230860 238859 245854 248847 252844 256833 241833 235824 //



CODED POINTS GIVE LATITUDE/LONGITUDE ALONG THE COASTWARD EDGE OF THE WARMER WATER.

357740 365730 366712 376696 // 378675 385662 382650 //



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SXNTI KWBC 252055

GULF STREAM LOCATION THE LINE DESCRIBED BY THE FOLLOWING  
SEQUENCE OF POINTS REPRESENTS THE WEST WALL OF THE GULF STREAM.

27.0/80.0	29.5/80.1	31.0/80.1	31.7/79.3
32.0/78.6	32.0/78.1	32.6/77.4	33.7/76.0
34.1/75.8	35.0/75.0	35.6/74.6	36.4/73.7
37.0/72.2	37.8/71.6	38.0/70.7	37.7/69.1
37.9/68.6	38.5/67.9	38.6/67.0	38.0/65.4
37.9/63.9			

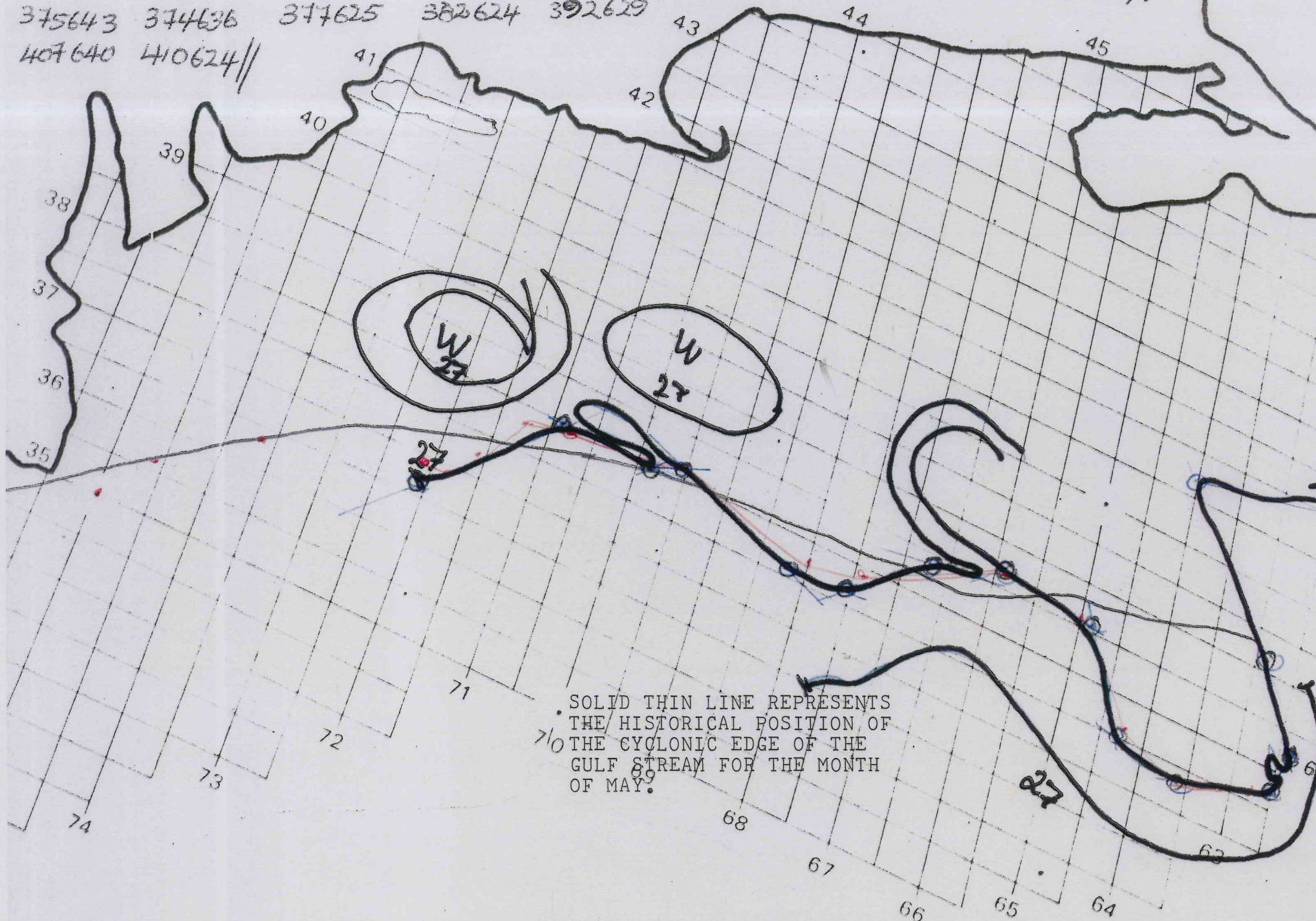
THE MAXIMUM CURRENT OF THE GULF STREAM LIES BETWEEN  
19+25 KM SEAWARD OF THIS LINE. ANALYSIS DATE 05/25/77

CODED POINTS GIVE LATITUDE/LONGITUDE ALONG THE COASTWARD EDGE OF THE WARMER WATER.

366721 380709 380699 381695 376687 377675 384667 387659 386649

375643 374636 377625 382624 392629

407640 410624



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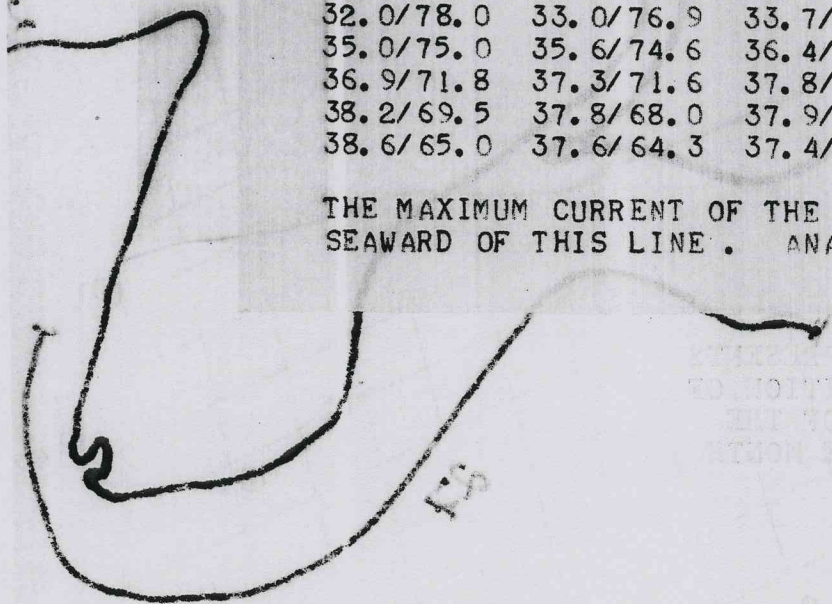
ZCZC WBC406

SXNT1 KWBC 272034

GULF STREAM LOCATION THE LINE DESCRIBED BY THE FOLLOWING  
SEQUENCE OF POINTS REPRESENTS THE WEST WALL OF THE GULF STREAM.

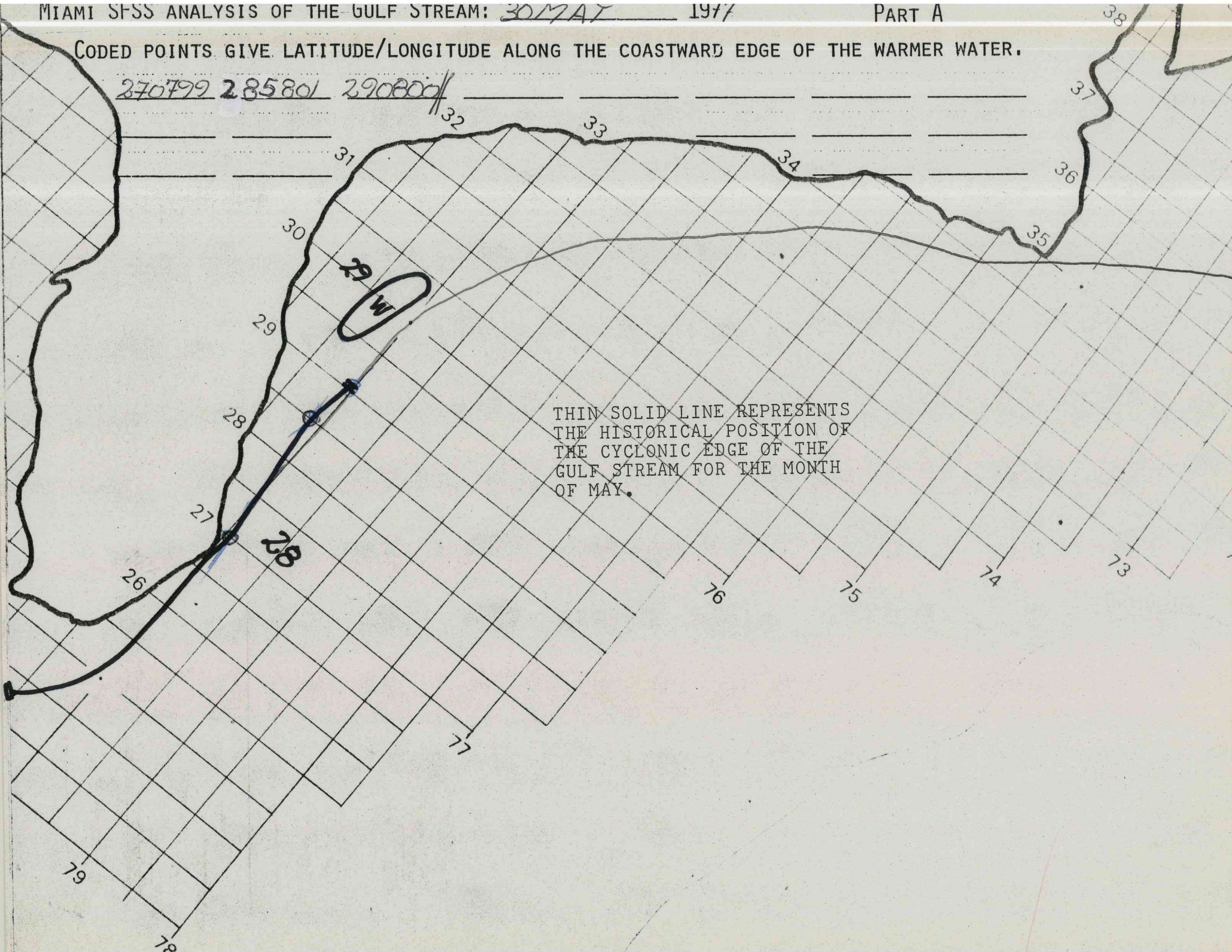
27.0/80.0	29.5/80.1	31.0/80.1	31.7/79.3
32.0/78.0	33.0/76.9	33.7/76.0	34.1/75.8
35.0/75.0	35.6/74.6	36.4/73.7	36.9/72.2
36.9/71.8	37.3/71.6	37.8/71.3	38.0/70.8
38.2/69.5	37.8/68.0	37.9/67.4	38.7/65.8
38.6/65.0	37.6/64.3	37.4/63.7	37.6/62.7

THE MAXIMUM CURRENT OF THE GULF STREAM LIES BETWEEN 19/25 KM  
SEAWARD OF THIS LINE. ANALYSIS DATE 05/27/77 2030Z



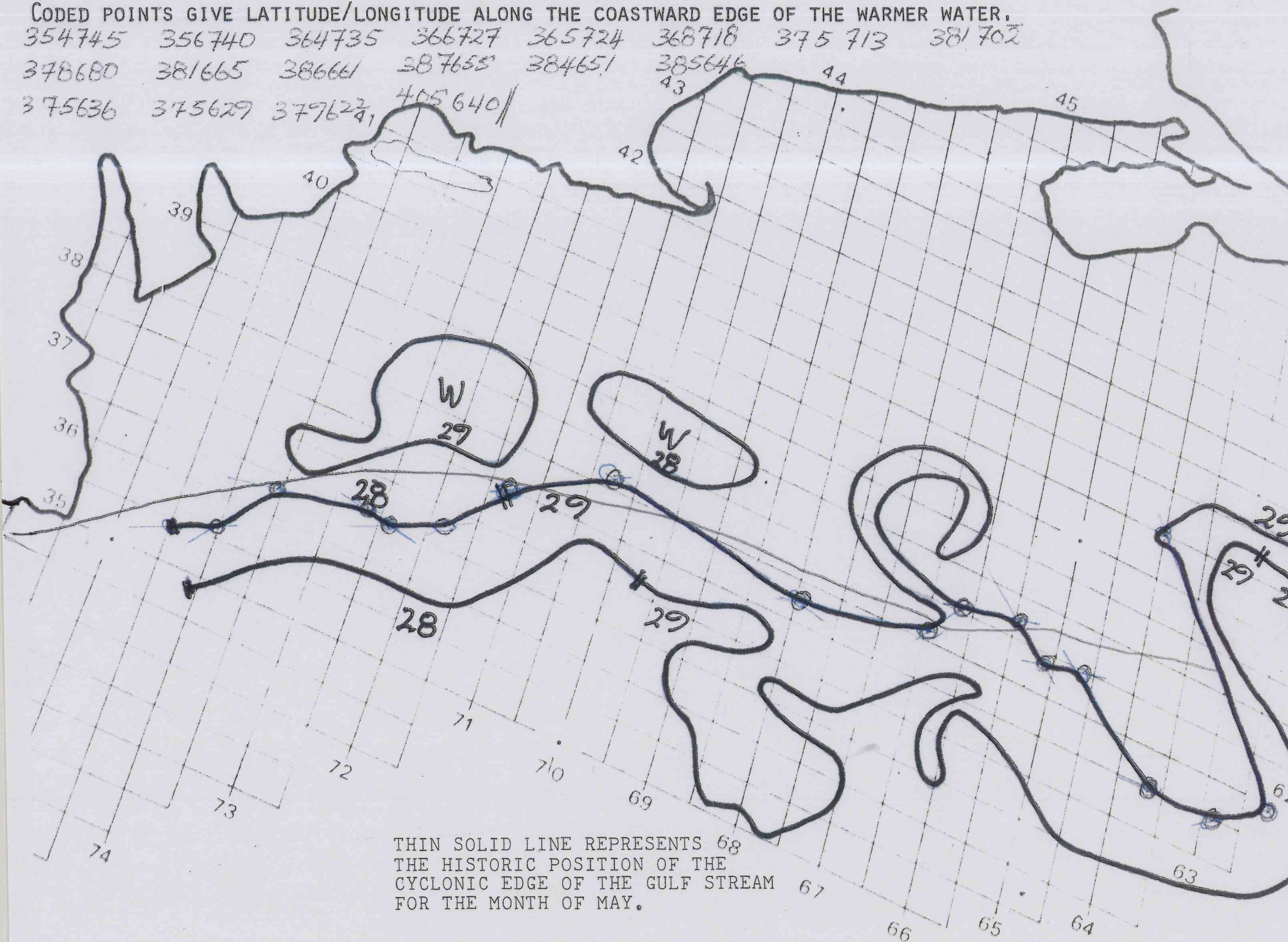
CODED POINTS GIVE LATITUDE/LONGITUDE ALONG THE COASTWARD EDGE OF THE WARMER WATER.

270799 285801 290807



CODED POINTS GIVE LATITUDE/LONGITUDE ALONG THE COASTWARD EDGE OF THE WARMER WATER.

354745 356740 364735 366727 365724 368718 375713 381702  
 378680 381665 386661 387655 384651 385646  
 375636 375629 379622, 405640



NNNN↓A

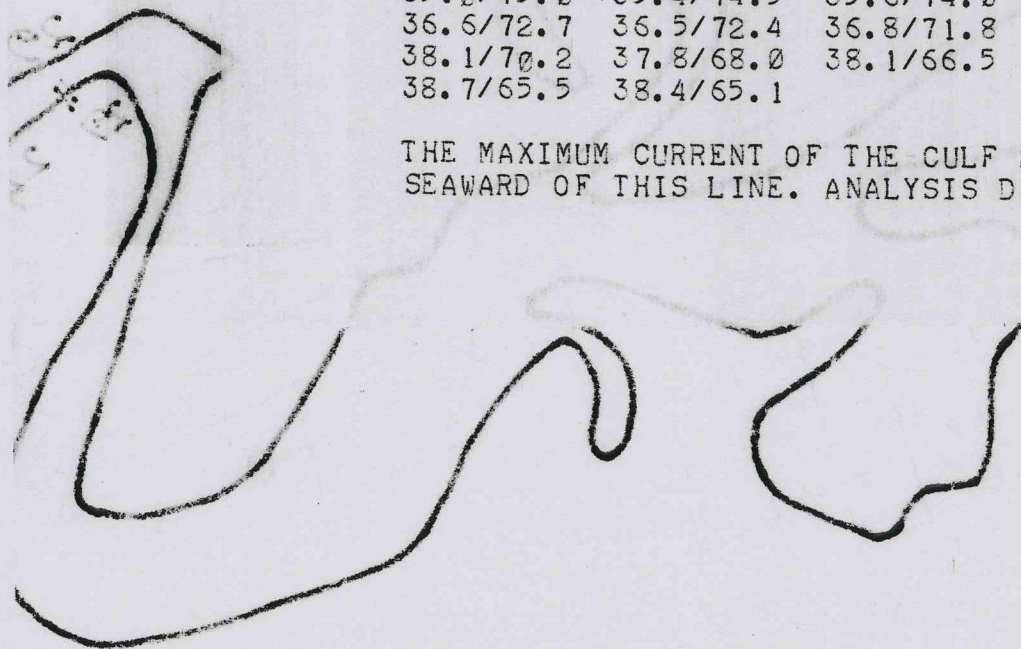
ZCZC WBC514

SXNT1 KWBC 312030

GULF STREAM LOCATION THE LINE DESCRIBED BY THE FOLLOWING  
SEQUENCE OF POINTS REPRESENTS THE WEST WALL OF THE GULF STREAM.

27.0/79.9	28.5/80.1	29.0/80.0	31.0/79.7
31.7/79.0	32.0/78.0	33.0/76.9	34.0/75.9
35.0/75.0	35.4/74.5	35.6/74.0	36.4/73.5
36.6/72.7	36.5/72.4	36.8/71.8	37.5/71.3
38.1/70.2	37.8/68.0	38.1/66.5	38.6/66.1
38.7/65.5	38.4/65.1		

THE MAXIMUM CURRENT OF THE GULF STREAM LIES BETWEEN 19/25KM  
SEAWARD OF THIS LINE. ANALYSIS DATE 05/31/77 2030Z



## **NOTE TO USER - 1977**

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Appended find:

January, 1977

February, 1977

March, 1977

April, 1977

May, 1977

June, 1977

MIAMI SFSS ANALYSIS OF THE GULF OF MEXICO LOOP CURRENT: 02 MAY 1977

PART A

CODED POINTS GIVE LATITUDE/LONGITUDE ALONG THE COASTWARD EDGE OF THE WARMER WATER.

226862 232863 247861 257852 263850 265844 260837 250836 244834 241828  
243825 241820 241815//

AREA of WM

ACTUAL FLOW

WATER BOUND BY:

242889/251899/

267896/277887/

280880/272868/

261869/242889//

N of MAIN LOOP

FLOW IS AN AREA

OF WM WATER

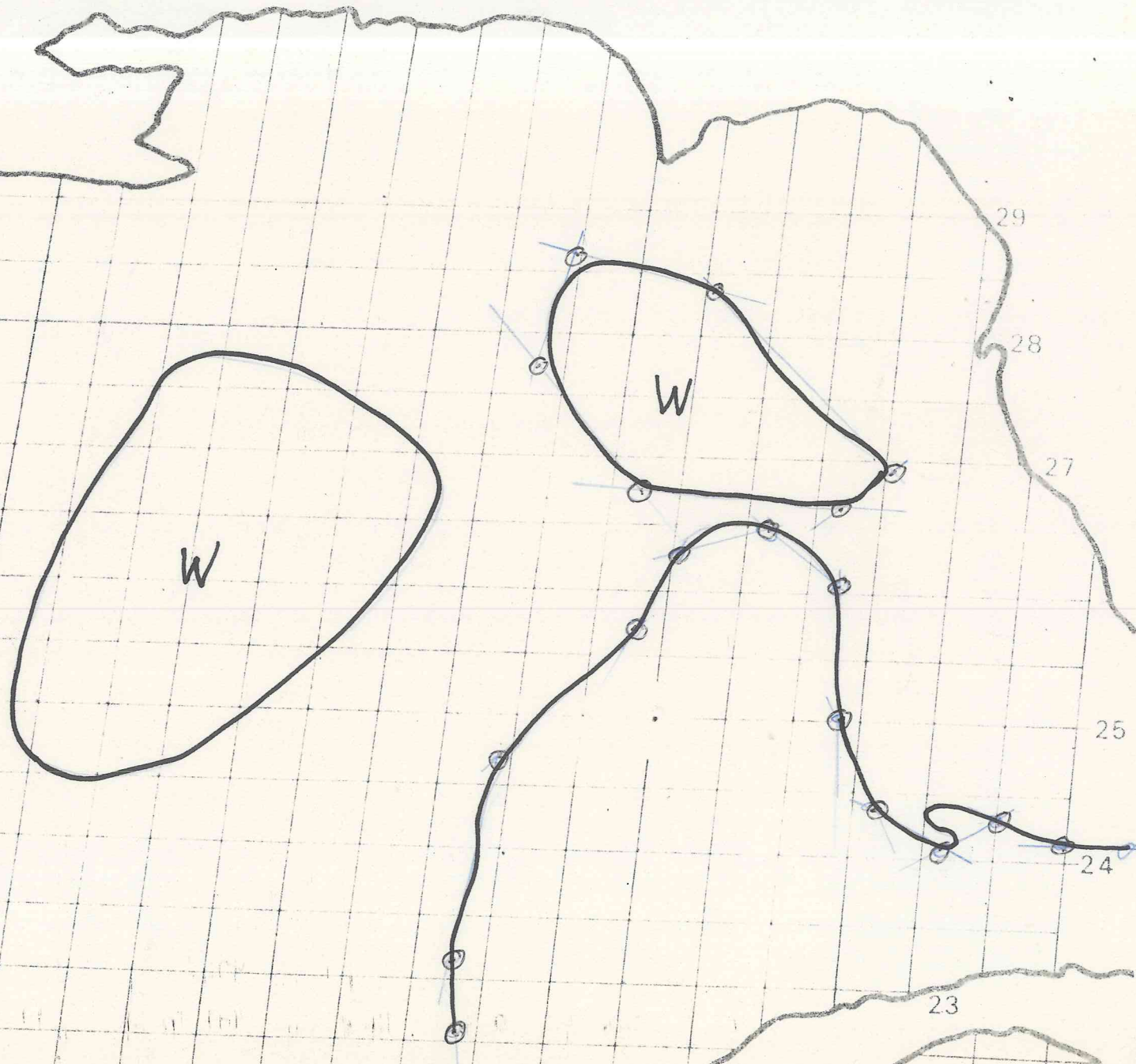
BOUND BY:

267853/272862/

286860/284849/

267835/266838/

267853/



MIAMI SFSS ANALYSIS OF THE GULF STREAM: 02 MAY 1977

PART A

CODED POINTS GIVE LATITUDE/LONGITUDE ALONG THE COASTWARD EDGE OF THE WARMER WATER.

270800 181799 305800 315-795 320786 323775 330770 337764

341756 345750

345738 34726

377702 381699

384693 380676

363678 363673

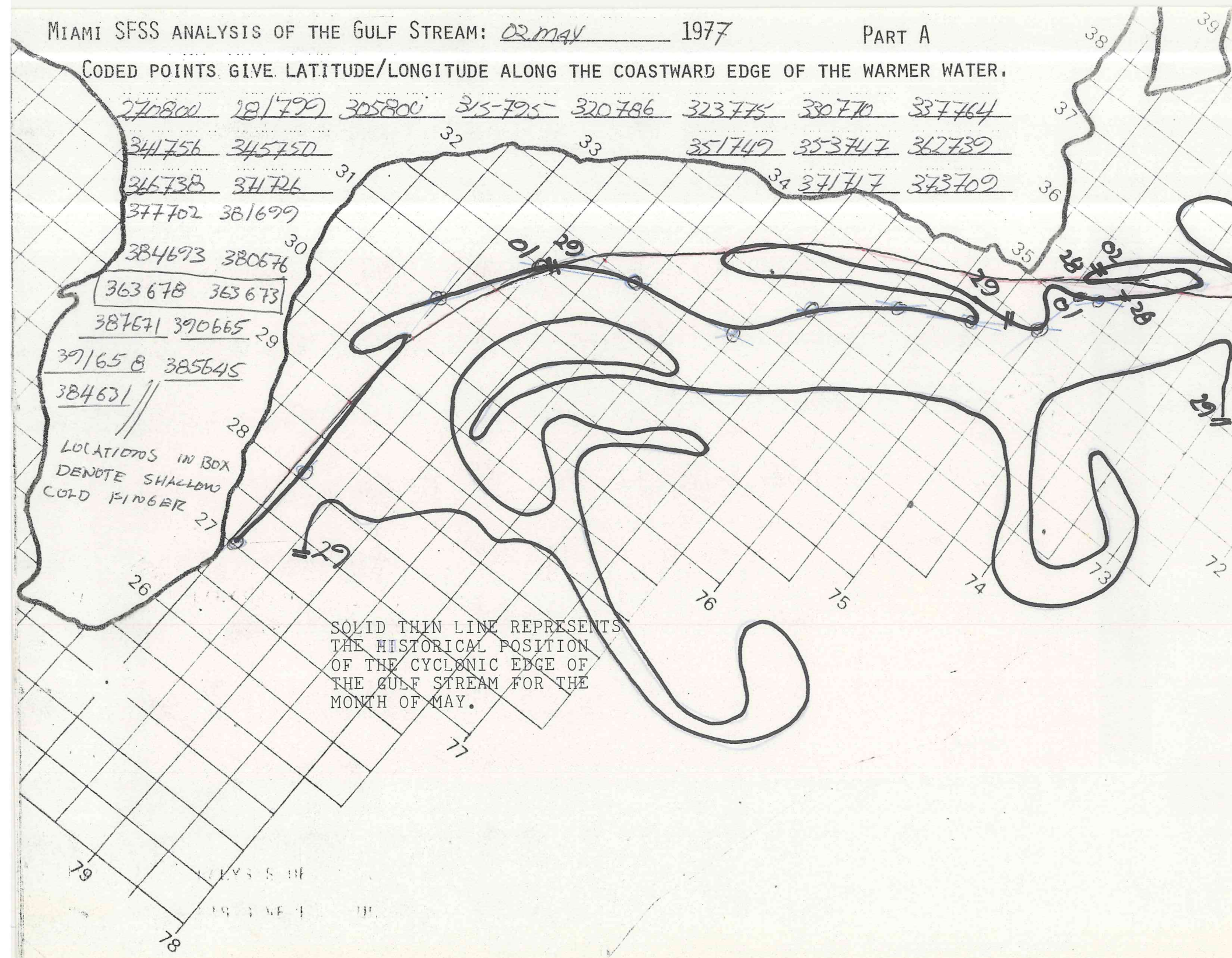
387671 390665 29

391658 385645

384631 //

LOCATIONS IN BOX  
DENOTE SHALLOW  
COLD FINGER 27

SOLID THIN LINE REPRESENTS  
THE HISTORICAL POSITION  
OF THE CYCLONIC EDGE OF  
THE GULF STREAM FOR THE  
MONTH OF MAY.



NNNNIV

ZCZC

SXNT1 KWBC 021955

GULF STREAM LOCATION - THE LINE DESCRIBED BY THE FOLLOWING  
SEQUENCE OF POINTS REPRESENTS THE WEST WALL OF THE GULF STREAM.

27.0/80.0	30.0/80.2	31.5/79.5	32.0/78.6
32.3/77.5	33.0/77.0	33.7/76.4	34.0/75.3
35.0/75.2	36.2/74.2	36.6/73.6	36.8/72.0
37.0/71.1	38.0/70.3	38.4/69.3	38.2/68.2
36.2/68.1	36.5/67.5	38.7/66.6	38.8/66.0
38.6/65.0			

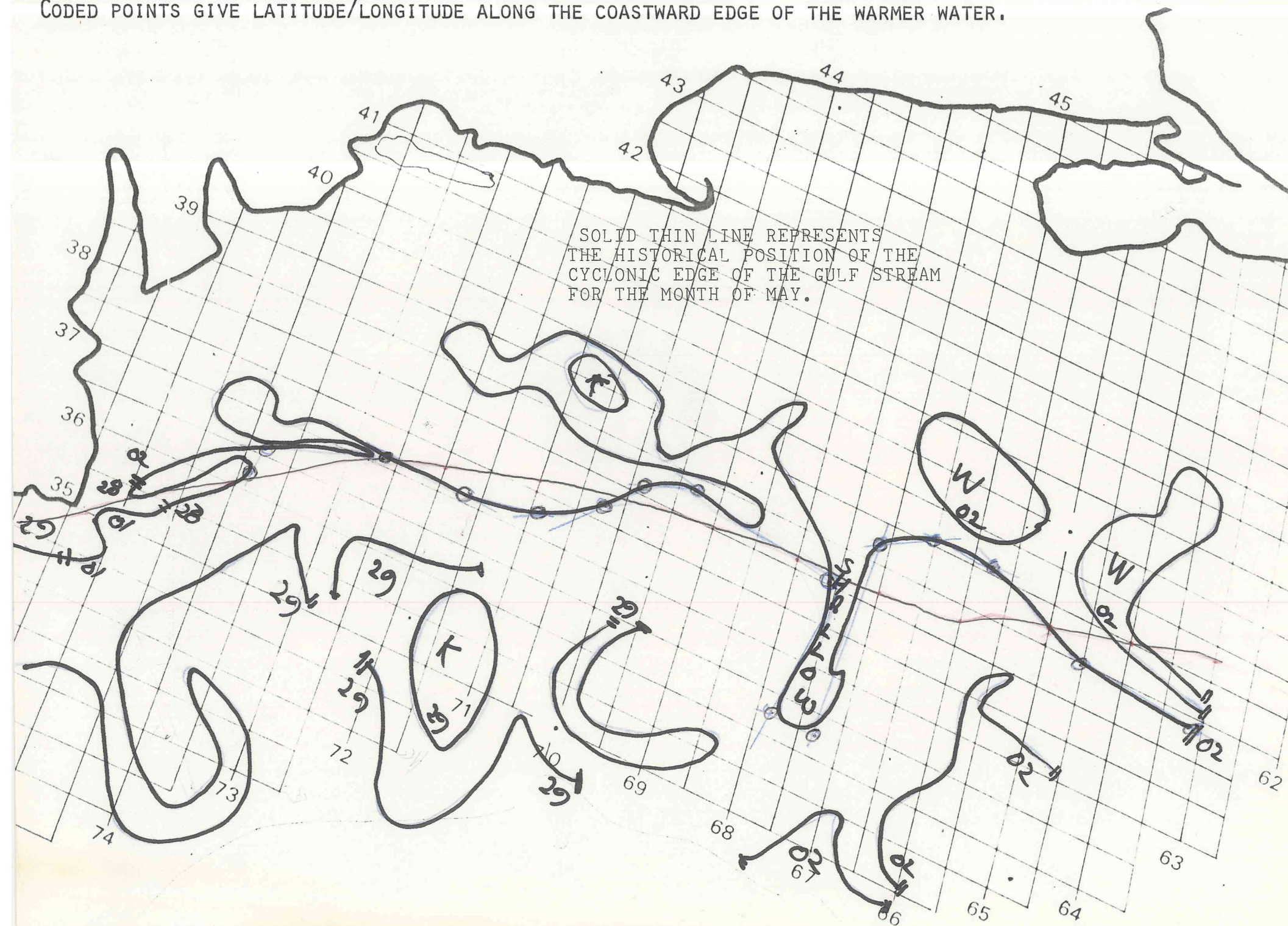
THE MAXIMUM CURRENT OF THE GULF STREAM LIES BETWEEN 19-25KM  
SEAWARD OF THIS LINE. ANALYSIS DATE. 05/02/77 1930

NNNNI

MIAMI SFSS ANALYSIS OF THE GULF STREAM: 02 MAY 1977

PART B

CODED POINTS GIVE LATITUDE/LONGITUDE ALONG THE COASTWARD EDGE OF THE WARMER WATER.



GULFSTREAM DISCUSSION

02 MAY 77

FM 32°N TO 34°N THE LARGE MEANDER KEEPS THE STREAM EAST OF THE HISTORICAL POSITION. THE MOST OUTSTANDING FEATURE SEEN TODAY IS THE SHALLOW COLD FINGER ALG 67.5°W, PROTRUDING S ALMOST 03° OF LATITUDE.

04 MAY 77

LTL CHG FM 02 MAY. COLD FINGER NR 67°W HAS TRANSLATED TO THE EAST ABT 20 MI OVR PAST 2 DAYS, INDICATING THAT THE FEATURE IS INDEED QUITE SHALLOW. IN ALL PROBABILITY THE MAIN CORE OF THE STREAM RUNS BENEATH THIS FEATURE, BUT THE SURFACE CURRENTS FLOW AROUND IT.

06 MAY 77

NOT MUCH NEW DATA PAST TWO DAYS, MSTLY BECAUSE OF CLD COVER. WHAT LITTLE THAT CAN BE SEEN HAS NOT CHANGED VERY MUCH EITHER!!

09 MAY 77

THE STREAM IS QUITE CLOSE TO THE MEAN POSITION WITH THE EXCEPTION OF THE PORTION BTN 32°N AND 35°N WHERE A SERIES OF MEANDERS MOVES THE SYCLONIC EDGE EWD UP TO 60 N. MI.

11 MAY 77

ONLY A SMALL PIECE OF DATA TODAY SHOWS THE MEANDER OFF THE CAROLINAS IN ABT THE SAME POSITION AS SEEN ON 09 MAY.

13 MAY 77

GOOD ANALYSIS N OF 29°N SHOWS THE STREAM OSCILLATING ABT THE MEAN POSITION, WITH THE GREATEST EXCURSIONS BTN 33.5°N AND CAPE HATTERAS.

16 MAY 77

THE STREAM VARIES ONLY SLIGHTLY FROM ITS MEAN POSITION, EXCEPT IN THE MEANDER BTN 32.5°N AND 34.8°N.

18 MAY 77

THE STREAM APPEARS SLIGHTLY SOUTH OF THE MEAN POSITION WHICH IS SOMEWHAT SUSPICIOUS, HOWEVER IT FITS THE DATA FROM MONDAY QUITE WELL. THE ONLY MAJOR DEVIATION FROM THE MEAN AGAIN IS IN THE OFFING OF THE CAROLINAS.

20 MAY 77

ONLY BITS AND PIECES OF DATA PAST TWO DAYS HAVE STREAM SOMEWHAT SOUTH OF THE MEAN POSITION N OF 32°N.

23 MAY 77.

THE STREAM CONTINUES TO DEVIATE FROM THE MEAN POSITION ONLY IN THE AREA BTN 32°N AND 34°N AND E OF 66°W.

25 MAY 77.

NO DATA SOUTH OF 35°N. LARGE COLD EDDY APPEARS NR ~~20~~ 37N60W.

27 MAY 77.

NO DATA S OF 36.5°N.

30 MAY 77.

WHERE IT CAN BE SEEN THE STREAM IS NEAR THE HISTORICAL POSITION, EXCEPT IN THE PORTIONS NEAR 71W AND 63W/

MIAMI SFSS ANALYSIS OF THE GULF STREAM: 04 MAY 1977

PART A

CODED POINTS GIVE LATITUDE/LONGITUDE ALONG THE COASTWARD EDGE OF THE WARMER WATER.

276799 290802 301800 310797 314790 324782 325773 333769  
341761 346754 365733 372730 373704 376701 384684 380677  
373678 360674 360672 373670 382667 387665 386660 387653  
384643 374723 370714

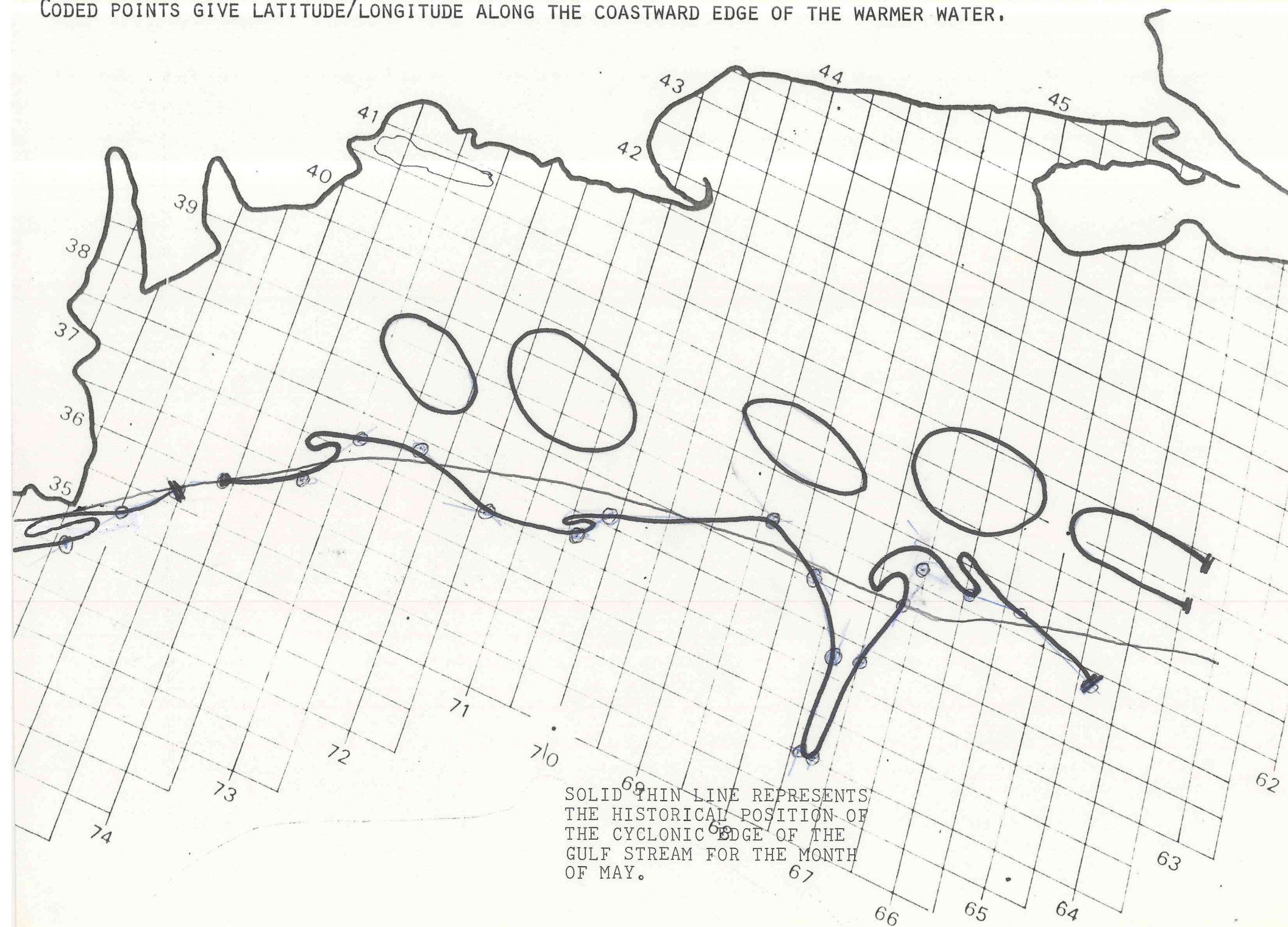
THIN SOLID LINE REPRESENTS  
THE HISTORICAL POSITION OF  
THE CYCLONIC EDGE OF THE  
GULF STREAM FOR THE MONTH  
OF MAY.

179  
178

MIAMI SFSS ANALYSIS OF THE GULF STREAM: 04 MAY 1977

PART B

CODED POINTS GIVE LATITUDE/LONGITUDE ALONG THE COASTWARD EDGE OF THE WARMER WATER.



MIAMI SFSS ANALYSIS OF THE GULF STREAM: 06 MAY 1977

PART A

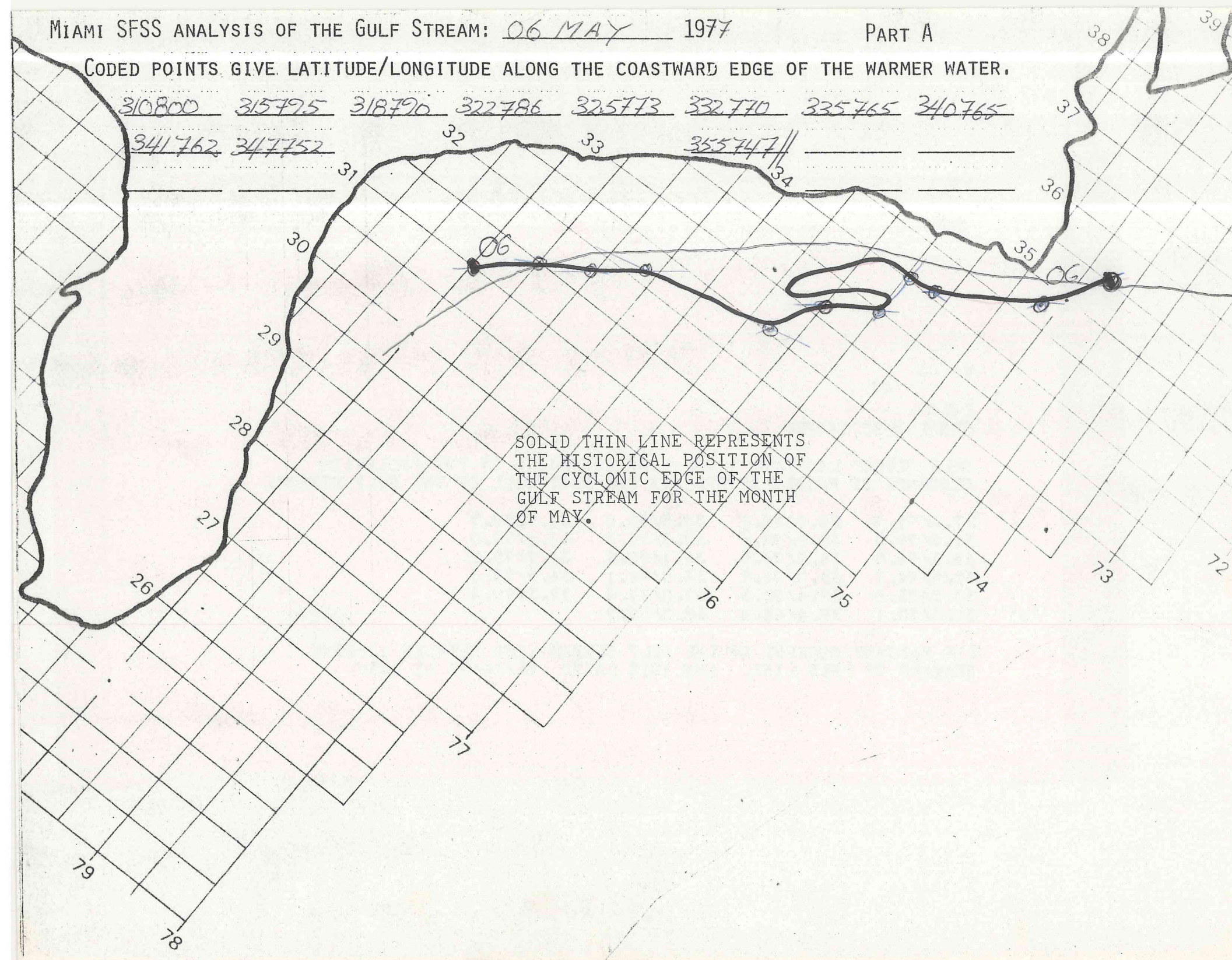
CODED POINTS GIVE LATITUDE/LONGITUDE ALONG THE COASTWARD EDGE OF THE WARMER WATER.

310800 315795 318790 322786 325773 332770 335765 340765

341762 347752

355747

SOLID THIN LINE REPRESENTS  
THE HISTORICAL POSITION OF  
THE CYCLONIC EDGE OF THE  
GULF STREAM FOR THE MONTH  
OF MAY.



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V ↓

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SXNT1 WBC 061850

GULF STREAM LOCATION ↑ THE LINE DESCRIBED BY THE FOLLOWING  
SEQUENCE OF POINTS REPRESENTS THE WEST WALL OF THE GULF STREAM.

27.6/79.9	29.0/80.2	31.0/80.0	31.5/79.5
31.8/79.0	32.2/78.6	32.5/77.3	33.2/77.0
33.5/76.5	34.0/76.5	34.1/76.2	34.7/75.2
35.5/74.7	35.7/74.5	36.0/74.1	36.5/73.3
37.2/73.0	37.4/72.3	37.0/71.4	37.3/70.4
37.6/70.1	38.4/68.4	38.0/67.7	

THE MAXIMUM CURRENT OF THE GULF STREAM LIES BETWEEN 19+25KM  
SEAWARD OF THIS LINE. ANALYSIS DATED 05/06/77 AT 1830

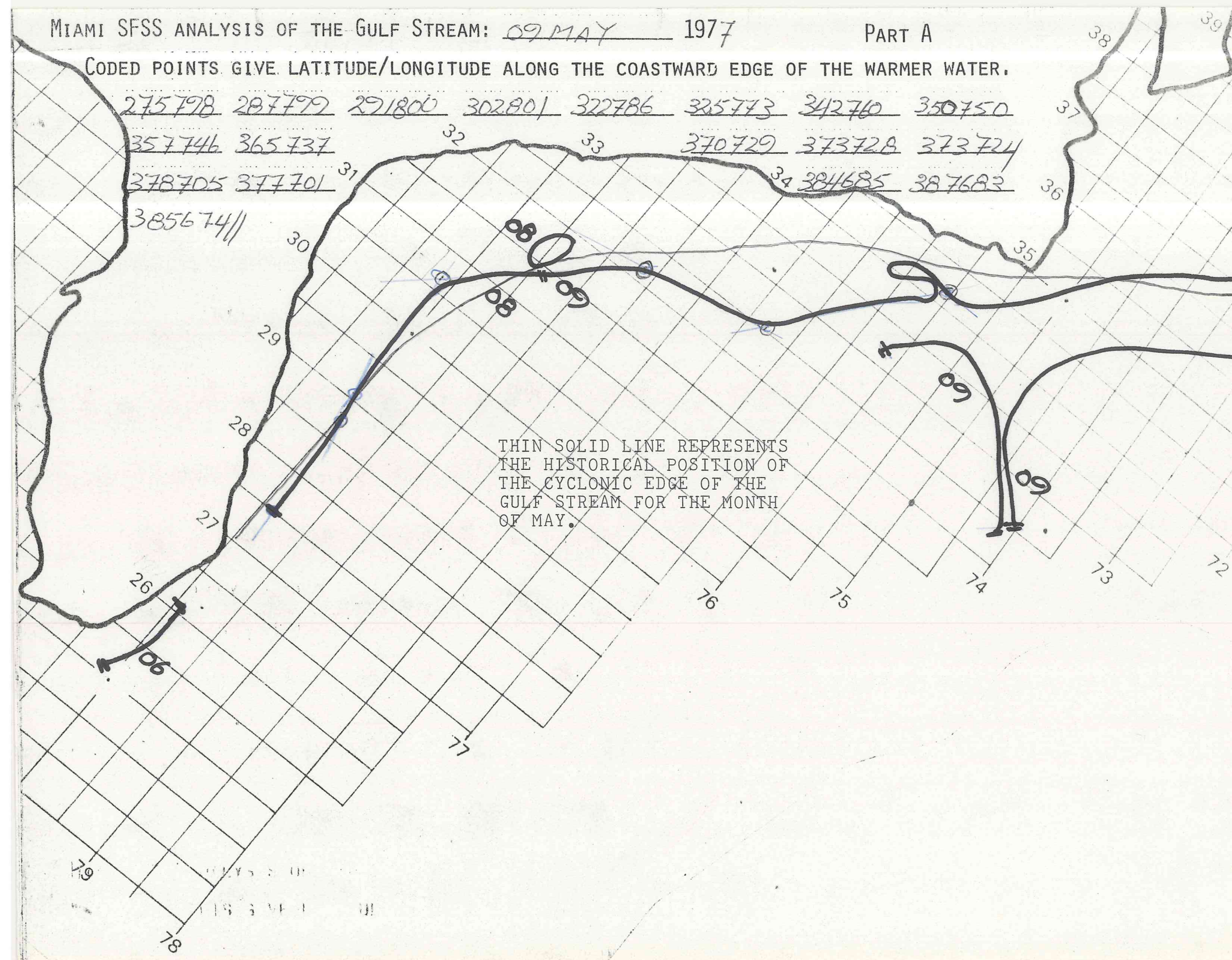
MIAMI SFSS ANALYSIS OF THE GULF STREAM: 09 MAY 1977

PART A

CODED POINTS GIVE LATITUDE/LONGITUDE ALONG THE COASTWARD EDGE OF THE WARMER WATER.

275798 287799 291800 302801 322786 325773 342760 350750  
357746 365737 370729 373728 373724  
378705 377701 384685 387683  
385674

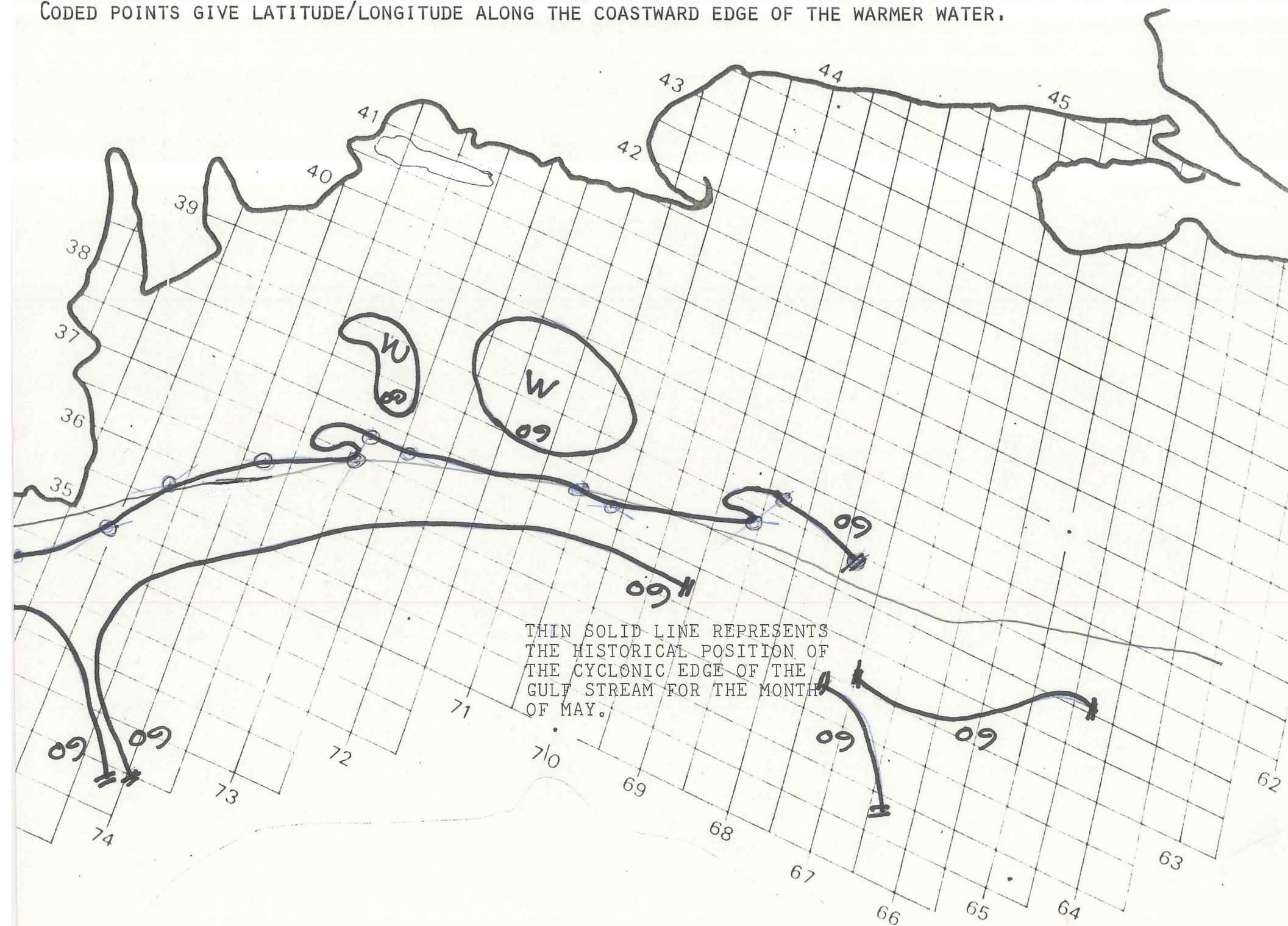
THIN SOLID LINE REPRESENTS  
THE HISTORICAL POSITION OF  
THE CYCLONIC EDGE OF THE  
GULF STREAM FOR THE MONTH  
OF MAY.



MIAMI SFSS ANALYSIS OF THE GULF STREAM: 09 MAY 1977

PART B

CODED POINTS GIVE LATITUDE/LONGITUDE ALONG THE COASTWARD EDGE OF THE WARMER WATER.



LOOP CURRENT DISTUSSION

11 MAY 77

EXTSV CLD COVER AND WK THERMAL GRADIENT PREVENTS A GOOD ANALYSIS TODAY.

13 MAY 77.

NOTHING PAST TWO DAYS TO IMPROVE ON 09 MAY.

16 MAY 77

MODERATELY GOOD ANALYSIS PAST 03 DAYS.

18 MAY 77

NO NEW DATA PAST TWO DAYS.

20 MAY 77

NO NEW DATA PAST 02 DAYS.

23 MAY 77.

ENOUGH PIECES PAST 03 DAYS TO MAKE A FAIR ANALYSIS. THE THERMAL GRADIENT IS BECOMING VERY WEAK.

25 MAY

GOOD ANALYSIS PAST 02 DAYS.

MIAMI SFSS ANALYSIS OF THE GULF OF MEXICO LOOP CURRENT: MAY 12 1977

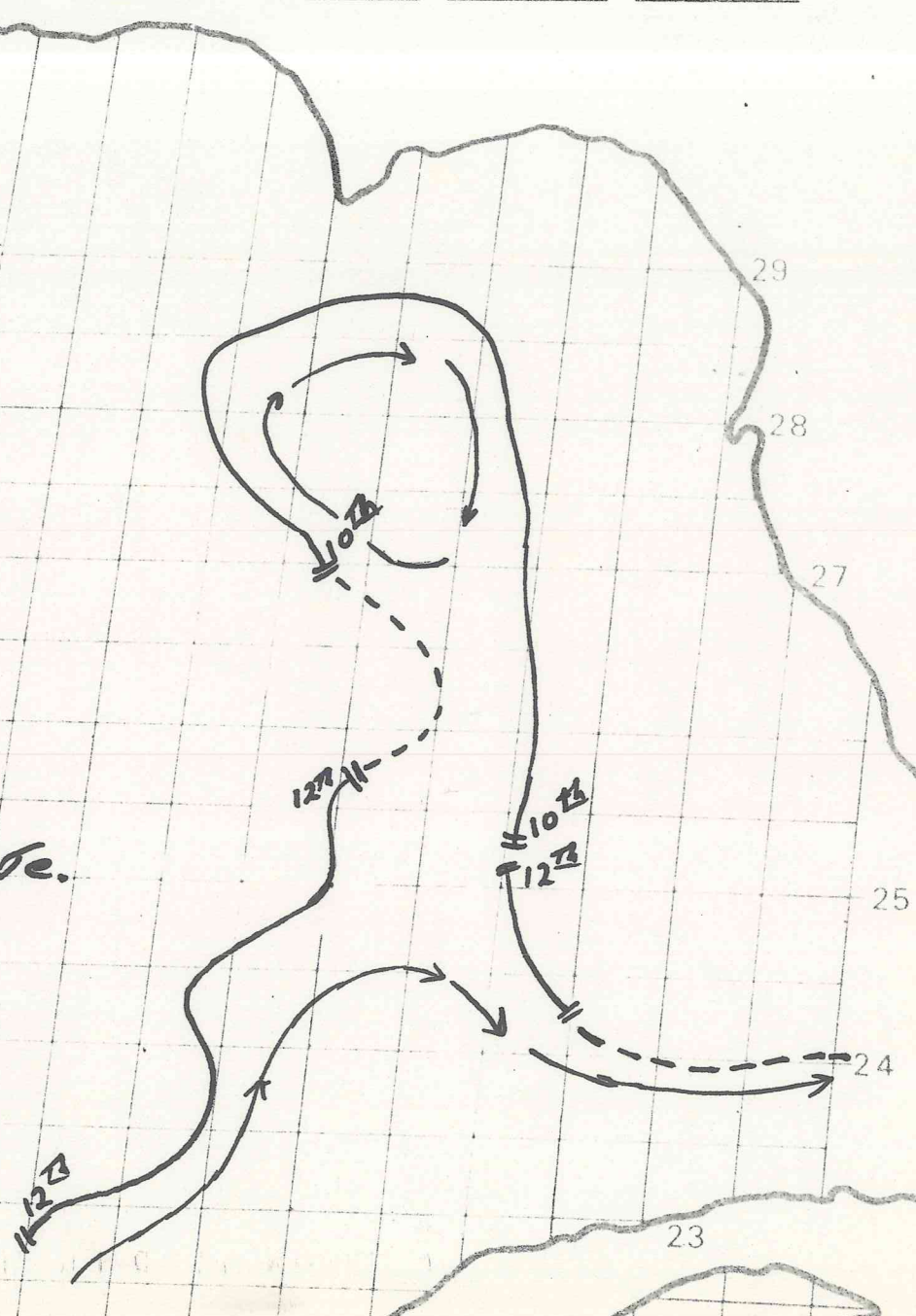
PART A

CODED POINTS GIVE LATITUDE/LONGITUDE ALONG THE COASTWARD EDGE OF THE WARMER WATER.

DATA between  
MAY 9-12 has been  
SPORADIC with questionable  
THERMAL Location due to  
cloud cover.

This is the best  
Composite Analysis to date.

||-----|| ~ Forecast Position



MIAMI SFSS ANALYSIS OF THE GULF STREAM: 13 MAY 1977

PART A

CODED POINTS GIVE LATITUDE/LONGITUDE ALONG THE COASTWARD EDGE OF THE WARMER WATER.

295801 307801 316796 319796 322792 325784 324776 331769

334769 336765 339761 351750 355745

358744 359736 369731 375720

375710 374702

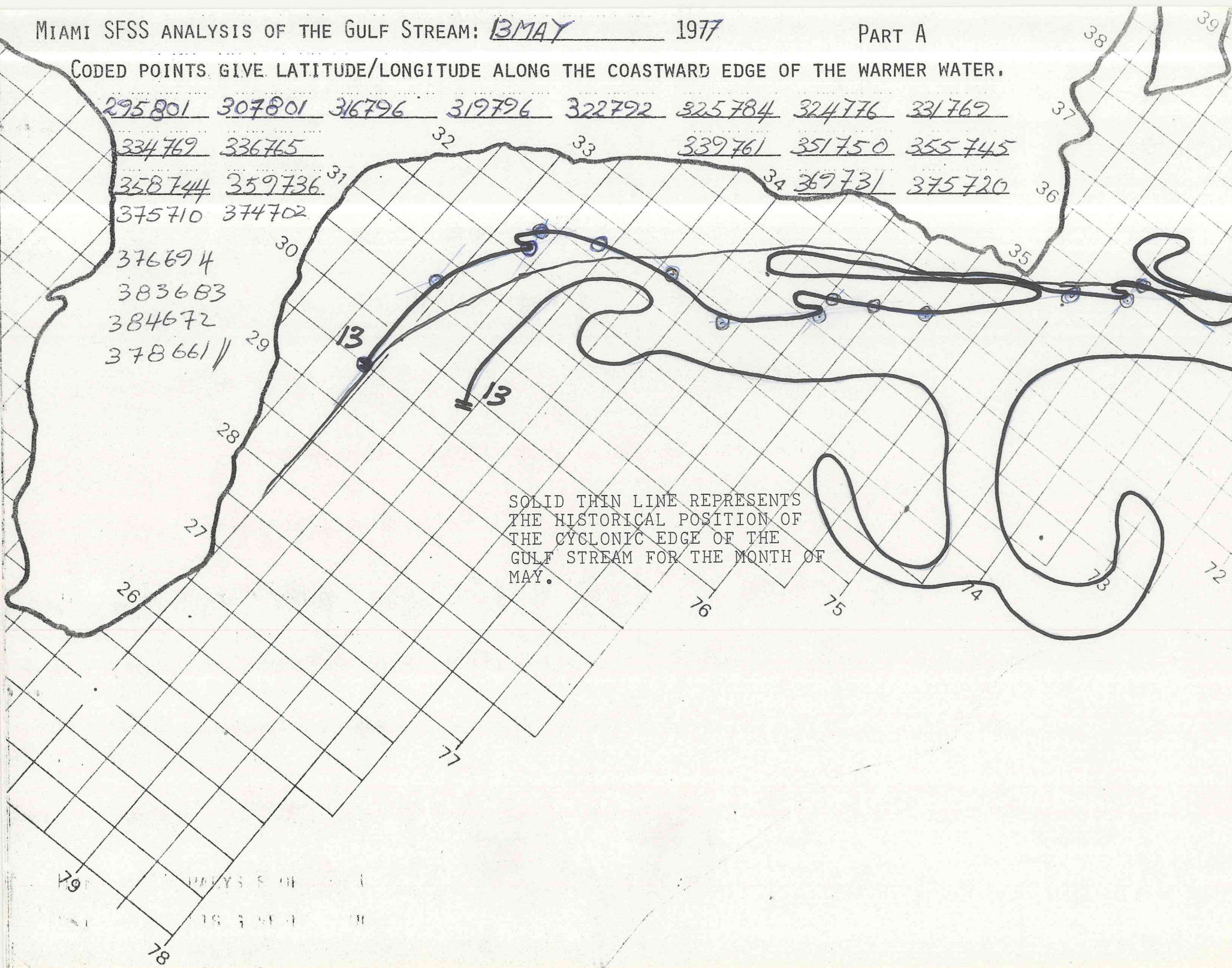
376694

383683

384672

378661 //

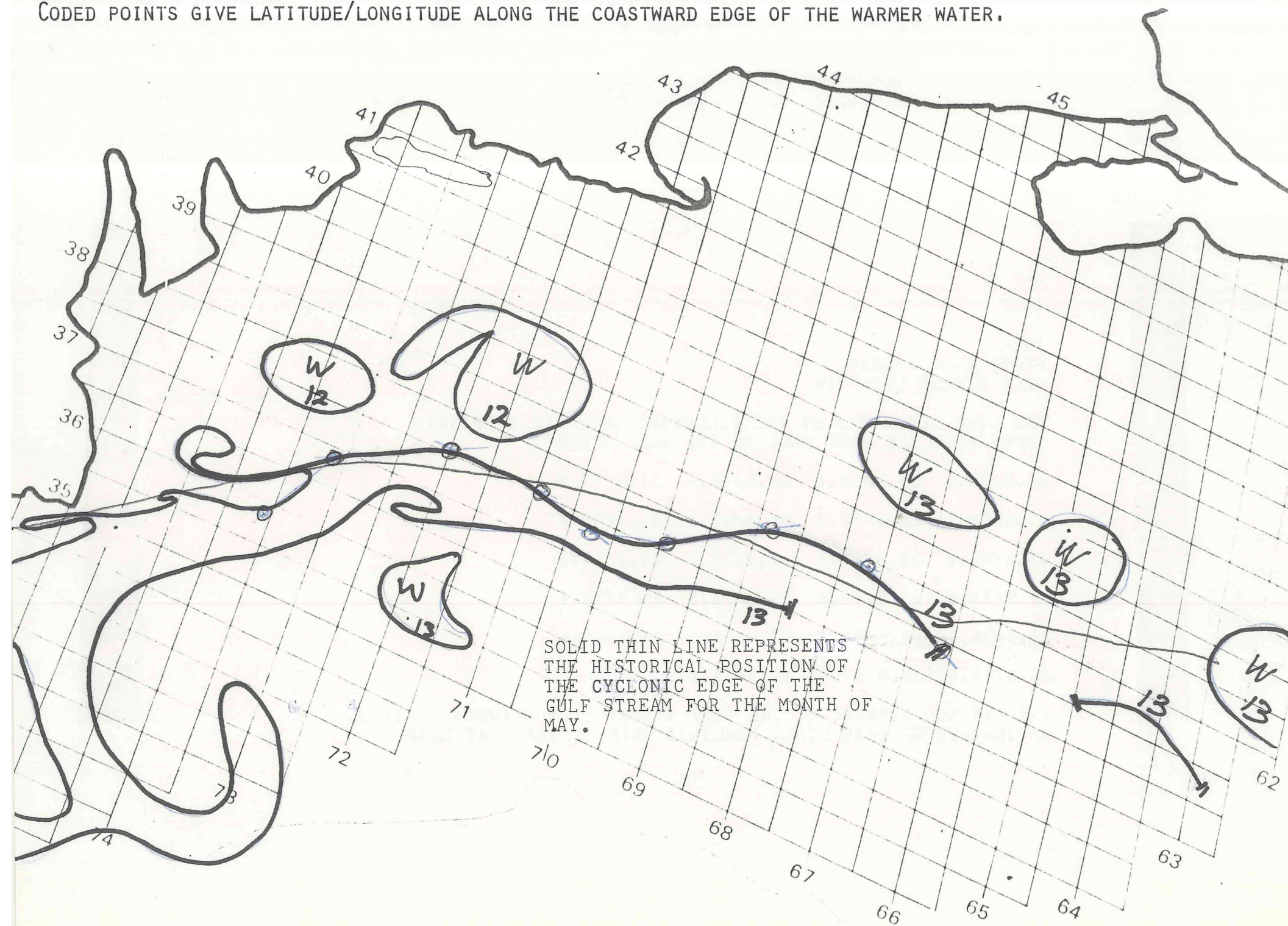
SOLID THIN LINE REPRESENTS  
THE HISTORICAL POSITION OF  
THE CYCLONIC EDGE OF THE  
GULF STREAM FOR THE MONTH OF  
MAY.



MIAMI SFSS ANALYSIS OF THE GULF STREAM: 13 MAY 1977

PART B

CODED POINTS GIVE LATITUDE/LONGITUDE ALONG THE COASTWARD EDGE OF THE WARMER WATER.



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SXNTI KWBC 132034  
GULF STREAM LOCATION

THE LINE DESCRIBED BY THE FOLLOWING SEQUENCE OF POINTS  
REPRESENTS THE WEST WALL OF THE GULF STREAM.

29.5/80.1	30.7/80.1	31.6/79.6	31.9/79.6
32.2/79.2	32.5/78.4	32.4/77.6	33.1/76.9
33.4/76.9	33.6/76.5	33.9/76.1	35.1/75.0
35.5/74.5	35.8/74.4	35.9/73.6	36.9/73.1
37.5/72.0	37.5/71.0	37.4/70.2	37.6/69.4
38.3/68.3	38.4/67.2	37.8/66.1	

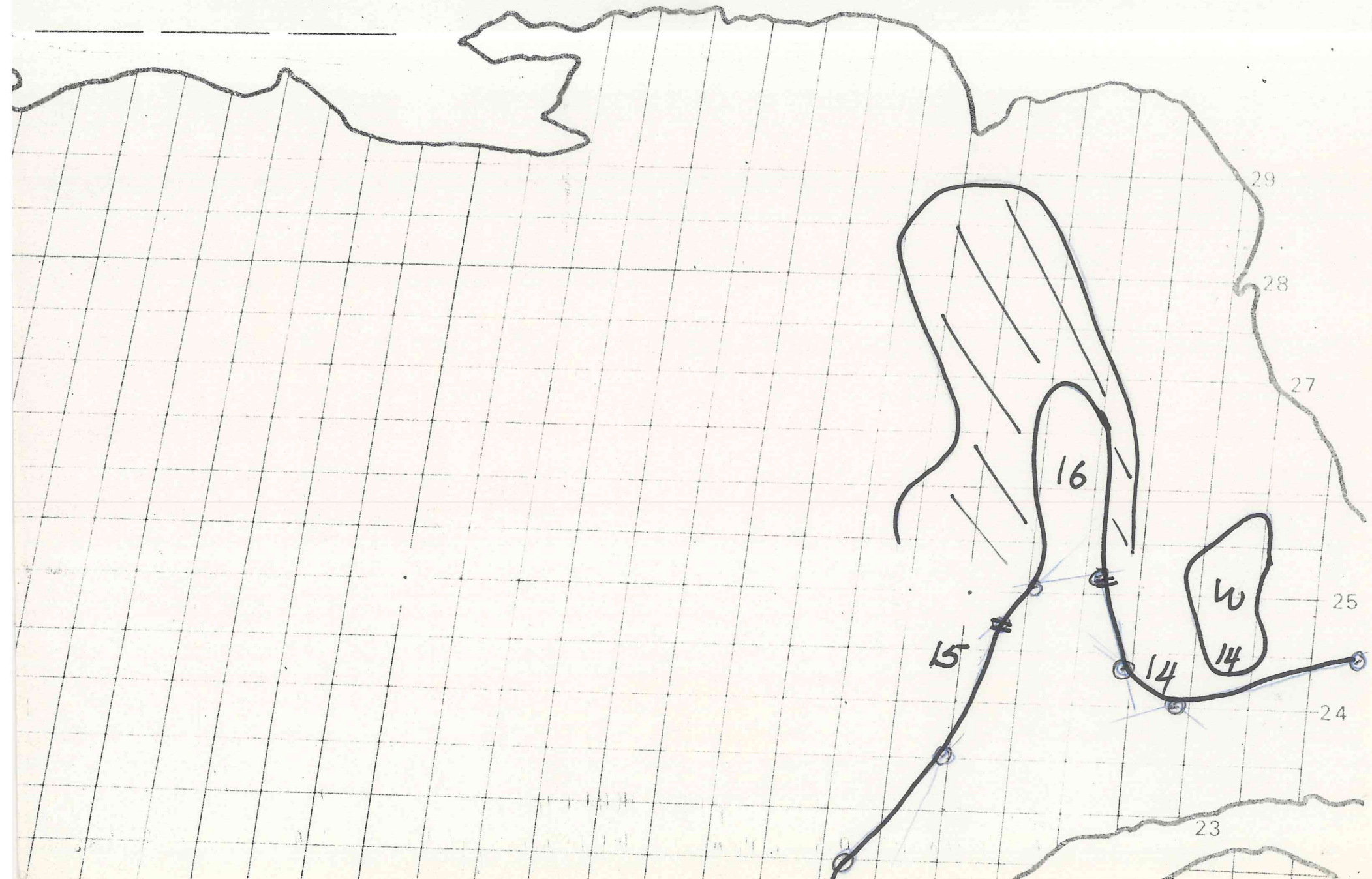
THE MAXIMUM CURRENT OF THE GULF STREAM LIES BETWEEN 19 TO 25  
KM SEAWARD OF THIS LINE. ANALYSIS DATE 05/13/77 AT 2030

MIAMI SFSS ANALYSIS OF THE GULF OF MEXICO LOOP CURRENT: 16 MAY 1977

PART A

CODED POINTS GIVE LATITUDE/LONGITUDE ALONG THE COASTWARD EDGE OF THE WARMER WATER.

225858 235850 247847 251845 257838 244836 240831 245816 //



MIAMI SFSS ANALYSIS OF THE GULF STREAM: 16 MAY 1977

PART A

CODED POINTS GIVE LATITUDE/LONGITUDE ALONG THE COASTWARD EDGE OF THE WARMER WATER.

275800	310800	312797	320794	323787	326786	326772	333769
342758	346753				350753	356744	357739
371729	375720				379717	380712	
376706	375700						
385685							
386665							
374650	382636						
378630.							

THE THIN SOLID LINE REPRESENTS  
THE MEAN POSITION OF THE  
CYCLONIC EDGE OF THE GULF STREAM  
FOR THE MONTH OF MAY.

June 3  
WPB - GBT  
GBT - Canaveral  
Chuebe  
ghetty  
make little

4V

ZCZC  
SXNTI KWBC 162045

GULF STREAM LOCATION THE LINE DESCRIBED BY THE FOLLOWING  
SEQUENCE OF POINTS REPRESENTS THE WEST WALL OF THE GULF STREAM.

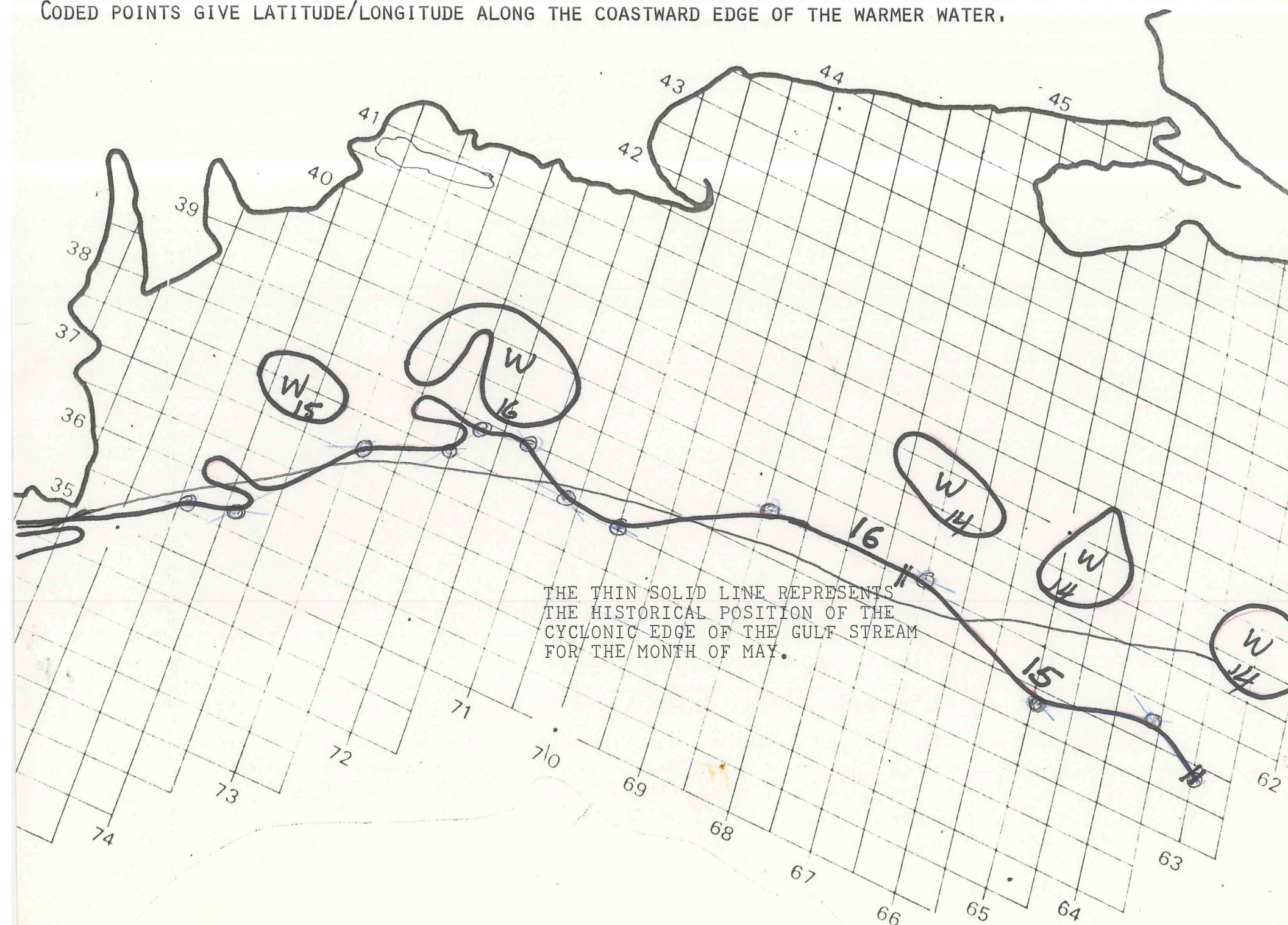
27.0/80.0	30.0/80.1	30.5/80.0	32.4/79.1
32.5/77.5	33.1/76.5	33.5/76.0	34.3/76.0
34.3/75.4	35.3/75.0	36.2/73.8	36.7/73.0
37.5/72.4	37.5/71.6	37.8/71.2	37.7/70.0
37.9/69.4	38.1/69.0	38.2/68.3	

THE MAXIMUM CURRENT OF THE GULF STREAM LIES BETWEEN 19 25 KM  
SEAWARD OF THIS LINE. ANALYSIS DATE 05/16/77

MIAMI SFSS ANALYSIS OF THE GULF STREAM: 16 MAY 1977

PART B

CODED POINTS GIVE LATITUDE/LONGITUDE ALONG THE COASTWARD EDGE OF THE WARMER WATER.



MIAMI SFSS ANALYSIS OF THE GULF STREAM: 18 MAY 1977

PART A

CODED POINTS GIVE LATITUDE/LONGITUDE ALONG THE COASTWARD EDGE OF THE WARMER WATER.

270800	304800	312798	317793	320786	320781	326774	337760
341758	350750			360736	360730	362725	
372722	375706			372691	379684		
383675	375645						

SOLID THIN LINE REPRESENTS THE  
HISTORICAL POSITION OF  
THE CYCLONIC EDGE OF THE  
GULF STREAM FOR THE MONTH OF  
MAY.

NNNNL↓

V

ZCZC  
SXNTI KWBC 132023

GULF STREAM LOCATION

THE LINE DESCRIBED BY THE FOLLOWING SEQUENCE OF POINTS  
REPRESENTS THE WEST WALL OF THE GULF STREAM.

27.0/80.0	30.4/80.0	31.2/79.8	31.7/79.3
32.0/78.6	32.0/78.1	32.6/77.4	33.7/76.0
34.1/75.8	35.0/75.0	36.0/73.6	36.0/73.0
36.2/72.5	37.2/72.2	37.5/70.6	37.2/69.1
37.9/68.4	38.3/67.5	37.5/64.5	

THE MAXIMUM CURRENT OF THE GULF STREAM LIES BETWEEN 19 AND  
25KM SEWARD OF THIS LINE. ANALYSIS DATE 05/13/77 AT 2030

BT  
↓0018

MIAMI SFSS ANALYSIS OF THE GULF STREAM: 18 MAY 1977

PART B

CODED POINTS GIVE LATITUDE/LONGITUDE ALONG THE COASTWARD EDGE OF THE WARMER WATER.



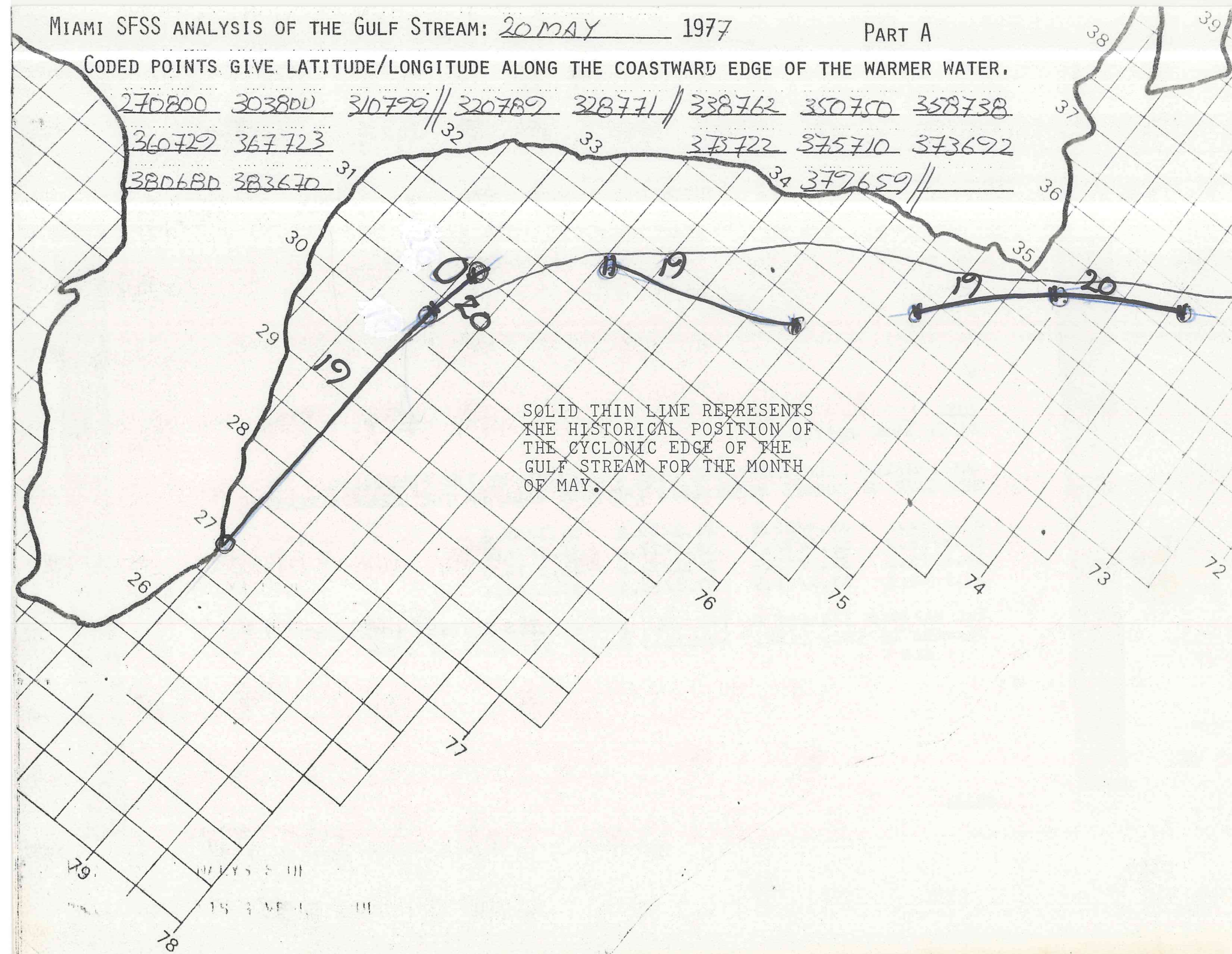
MIAMI SFSS ANALYSIS OF THE GULF STREAM: 20 MAY 1977

PART A

CODED POINTS GIVE LATITUDE/LONGITUDE ALONG THE COASTWARD EDGE OF THE WARMER WATER.

270800 303800 310799 // 320789 328771 // 338762 350750 358738  
360729 367723 373722 375710 373692  
380680 383670 379659 //

SOLID THIN LINE REPRESENTS  
THE HISTORICAL POSITION OF  
THE CYCLONIC EDGE OF THE  
GULF STREAM FOR THE MONTH  
OF MAY.



V

ZCZC

SXNTI KWBC 201730

GULF STREAM LOCATION † THE LINE DESCRIBED BY THE FOLLOWING  
SEQUENCE OF POINTS REPRESENTS THE WEST WALL OF THE UGULF STREAM.

27.0/80.0	30.4/80.0	31.2/79.8	31.7/79.3
32.0/78.6	32.0/78.1	32.6/77.4	33.7/76.0
34.1/75.8	35.0/75.0	35.3/74.9	36.1/74.0
36.8/72.4	37.5/71.9	37.5/70.6	37.2/69.1

THE MAXIMUM CURRENT OF THE GULF STREAM LIES BETWEEN 19†25KM  
SEAWARD OF THIS LINE. ANALYSIS DATEO 05/20/77 AT 1700

RLM

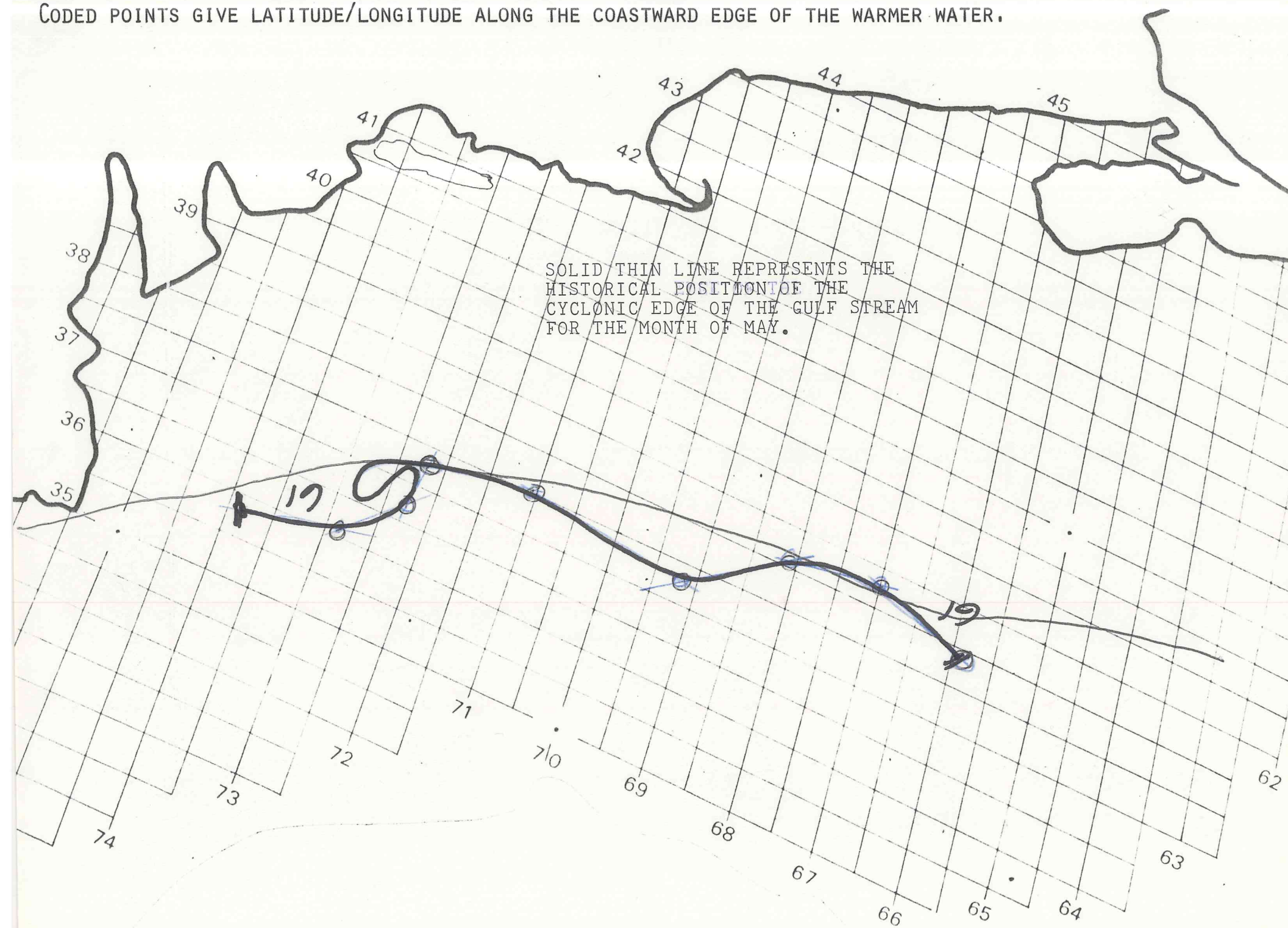
NNNN

MIAMI SFSS ANALYSIS OF THE GULF STREAM: 20 MAY 1977

PART B

CODED POINTS GIVE LATITUDE/LONGITUDE ALONG THE COASTWARD EDGE OF THE WARMER WATER.

SOLID THIN LINE REPRESENTS THE  
HISTORICAL POSITION OF THE  
CYCLONIC EDGE OF THE GULF STREAM  
FOR THE MONTH OF MAY.

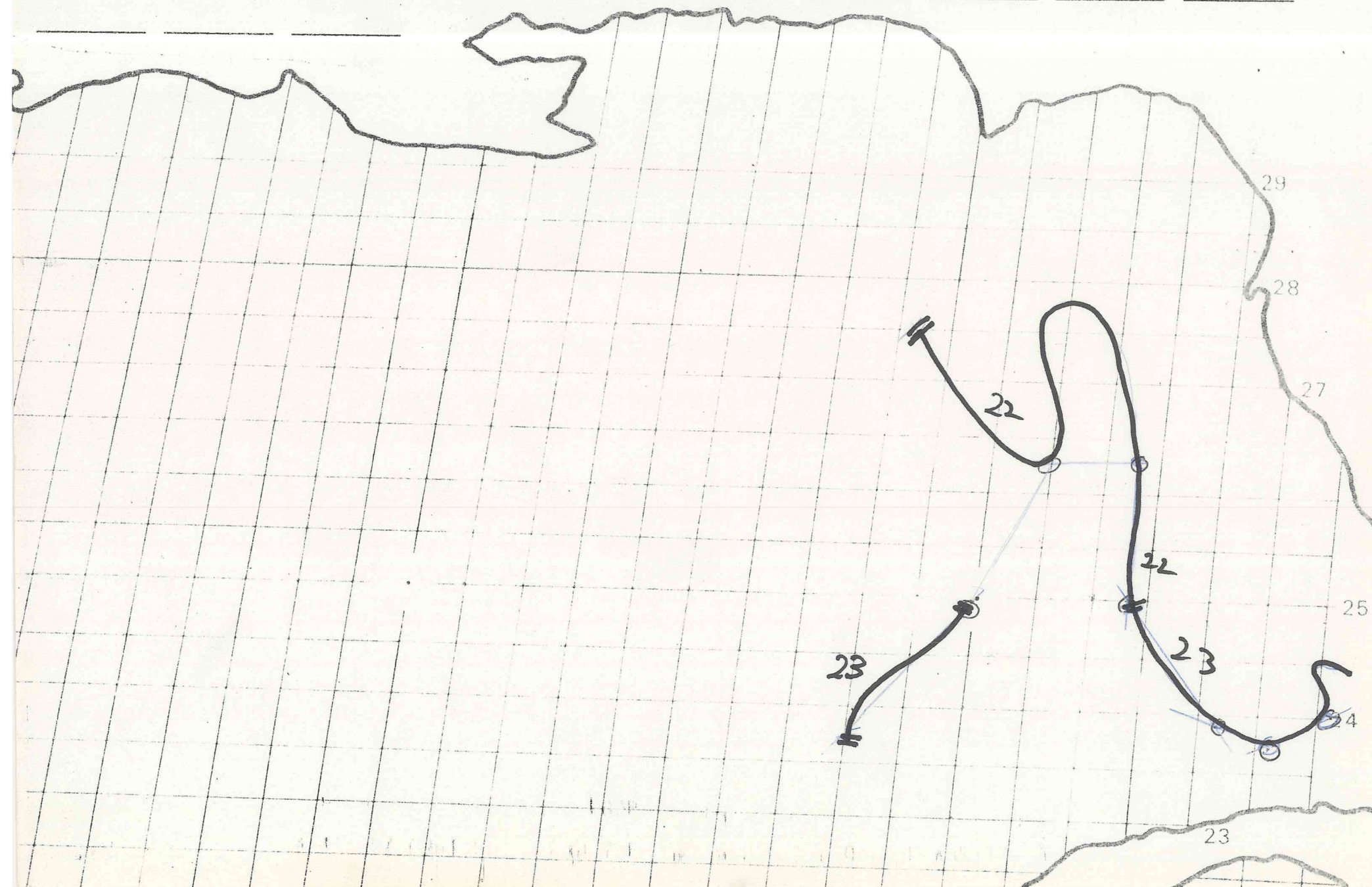


MIAMI SFSS ANALYSIS OF THE GULF OF MEXICO LOOP CURRENT: 23 MAY 1977

PART A

CODED POINTS GIVE LATITUDE/LONGITUDE ALONG THE COASTWARD EDGE OF THE WARMER WATER.

237860 250850 ~~241850~~ 263845 263837 250836 239828 237824 240819 //

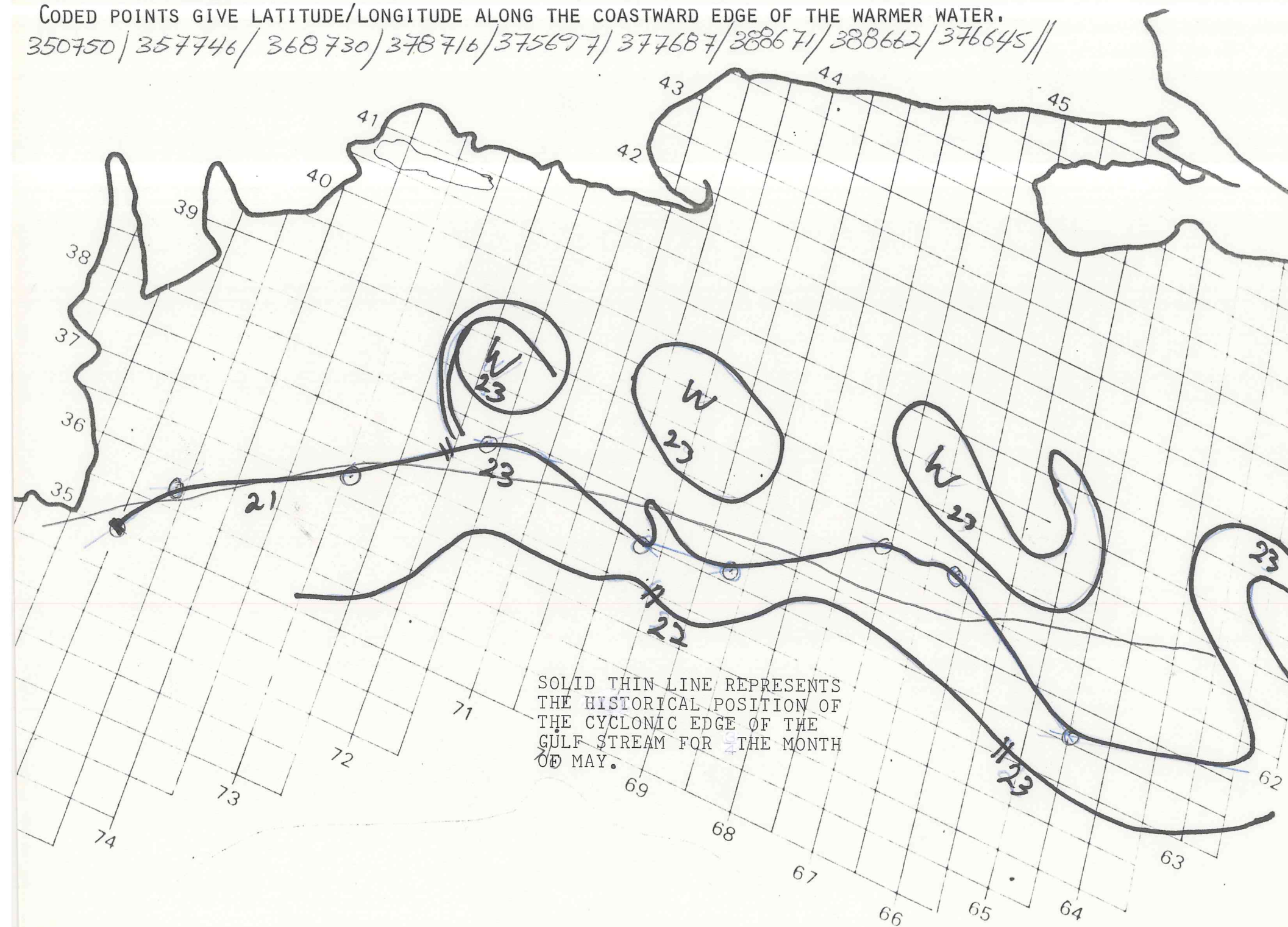


MIAMI SFSS ANALYSIS OF THE GULF STREAM: 23 MAY 1977

PART B

CODED POINTS GIVE LATITUDE/LONGITUDE ALONG THE COASTWARD EDGE OF THE WARMER WATER.


350750/357746/368730/378716/375697/377687/388671/388662/376645//



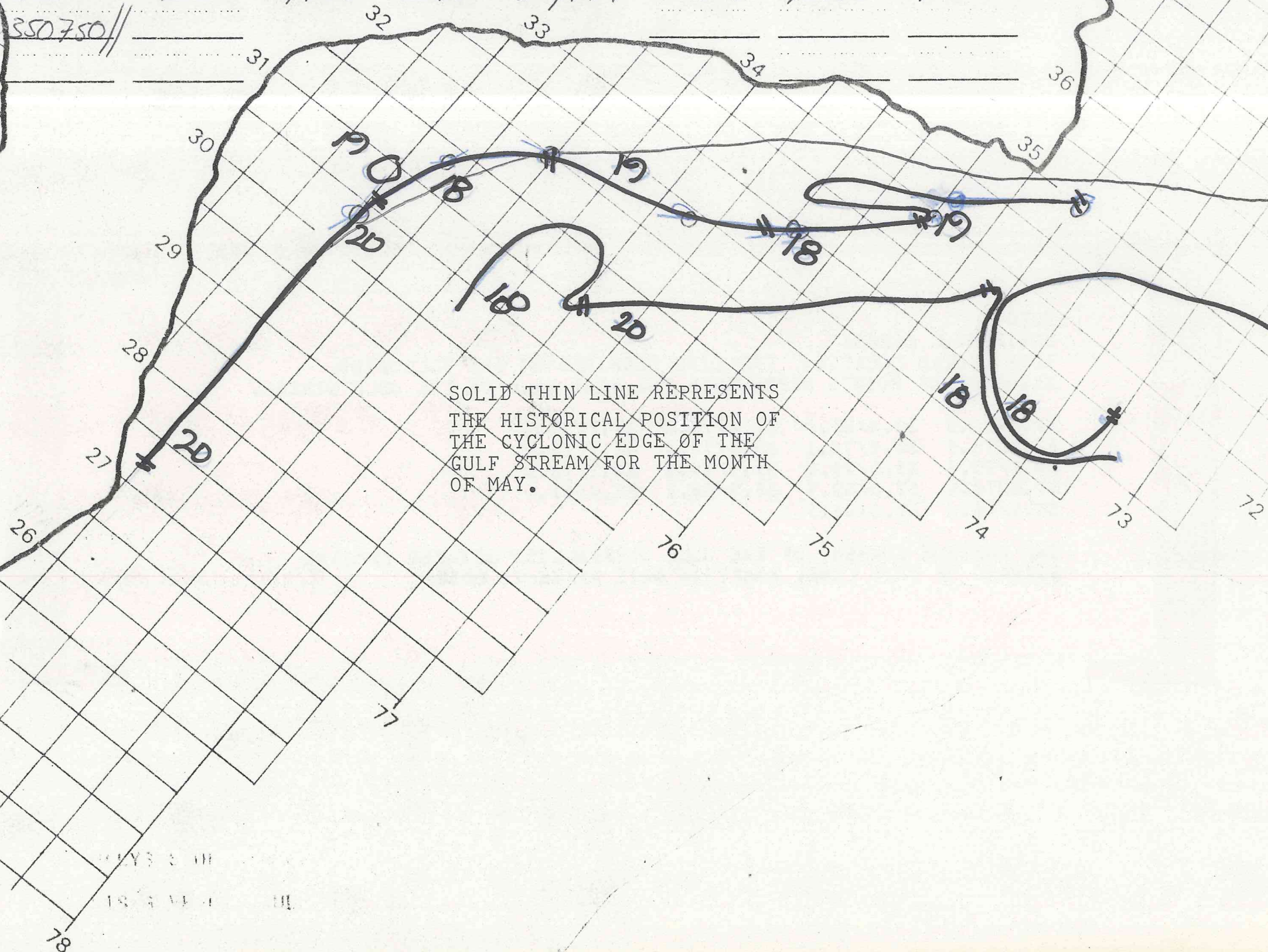
PART A

272800 304800 314797 320790 324777 330769 340760 342759

350750//



A hand-drawn sketch of a mountain range with two peaks labeled 32 and 33. The sketch is drawn on a grid background.





ZCZC

SXNTI KWBC 232031

GULF STREAM LOCATION THE LINE DESCRIBED BY THE FOLLOWING  
SEQUENCE OF POINTS REPRESENTS THE WEST WALL OF THE GULF STREAM.

27.0/80.0	30.4/80.0	31.2/79.8	31.7/79.3
32.0/78.6	32.0/78.1	32.6/77.4	33.7/76.0
34.1/75.8	35.0/75.0	35.7/74.6	36.8/73.0
37.8/71.6	37.5/69.7	37.7/68.7	38.8/67.1
38.8/66.2	37.6/64.5		

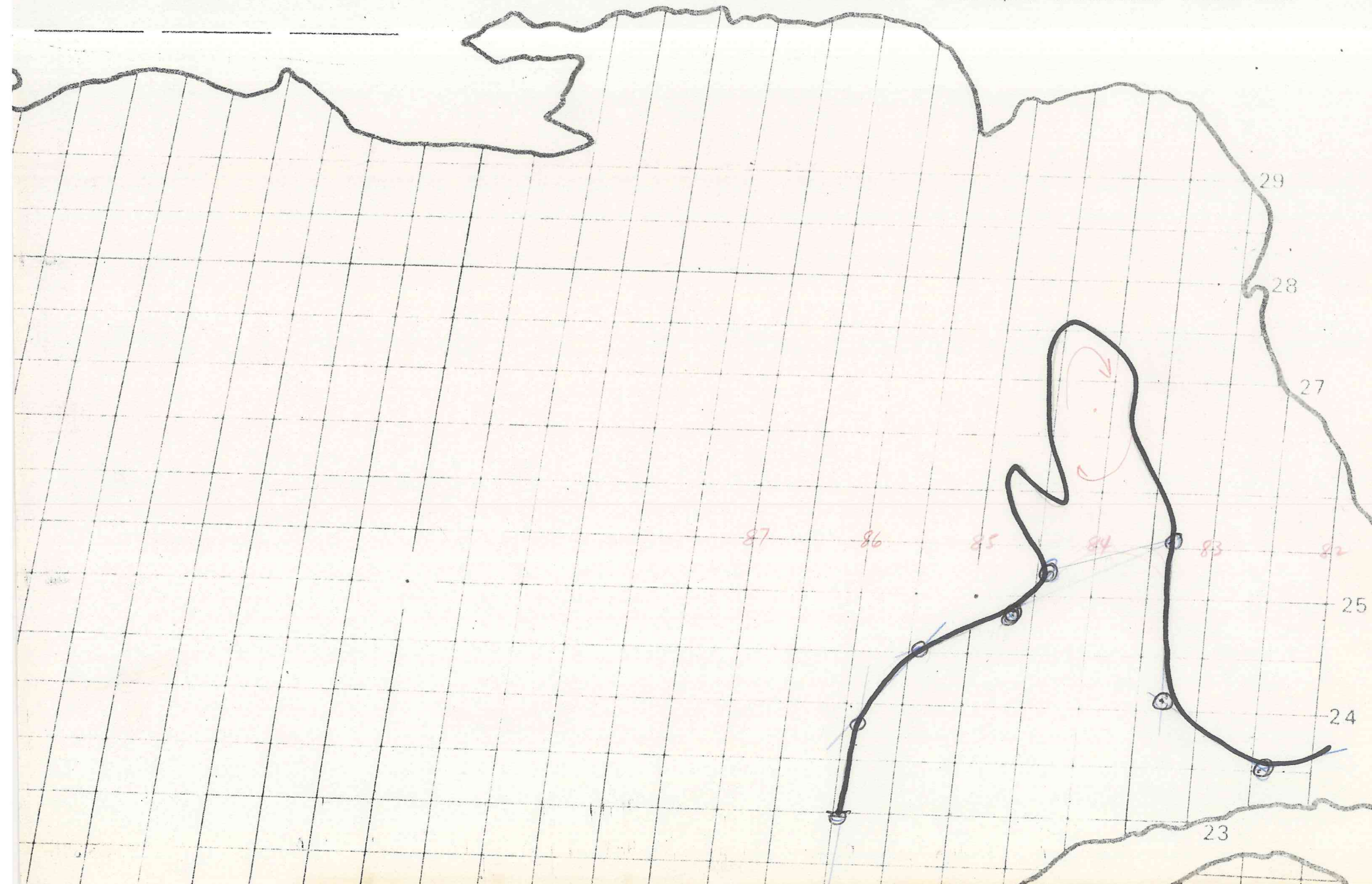
THE MAXIMUM CURRENT OF THE GULF STREAM LIES BETWEEN 19/25KM  
SEAWARD OF THIS LINE. ANALYSIS DATE 05/23/77 2030Z

MIAMI SFSS ANALYSIS OF THE GULF OF MEXICO LOOP CURRENT: 25 MAY 1977

PART A

CODED POINTS GIVE LATITUDE/LONGITUDE ALONG THE COASTWARD EDGE OF THE WARMER WATER.

230860 238859 245854 248847 252844 256833 241833 235824 //



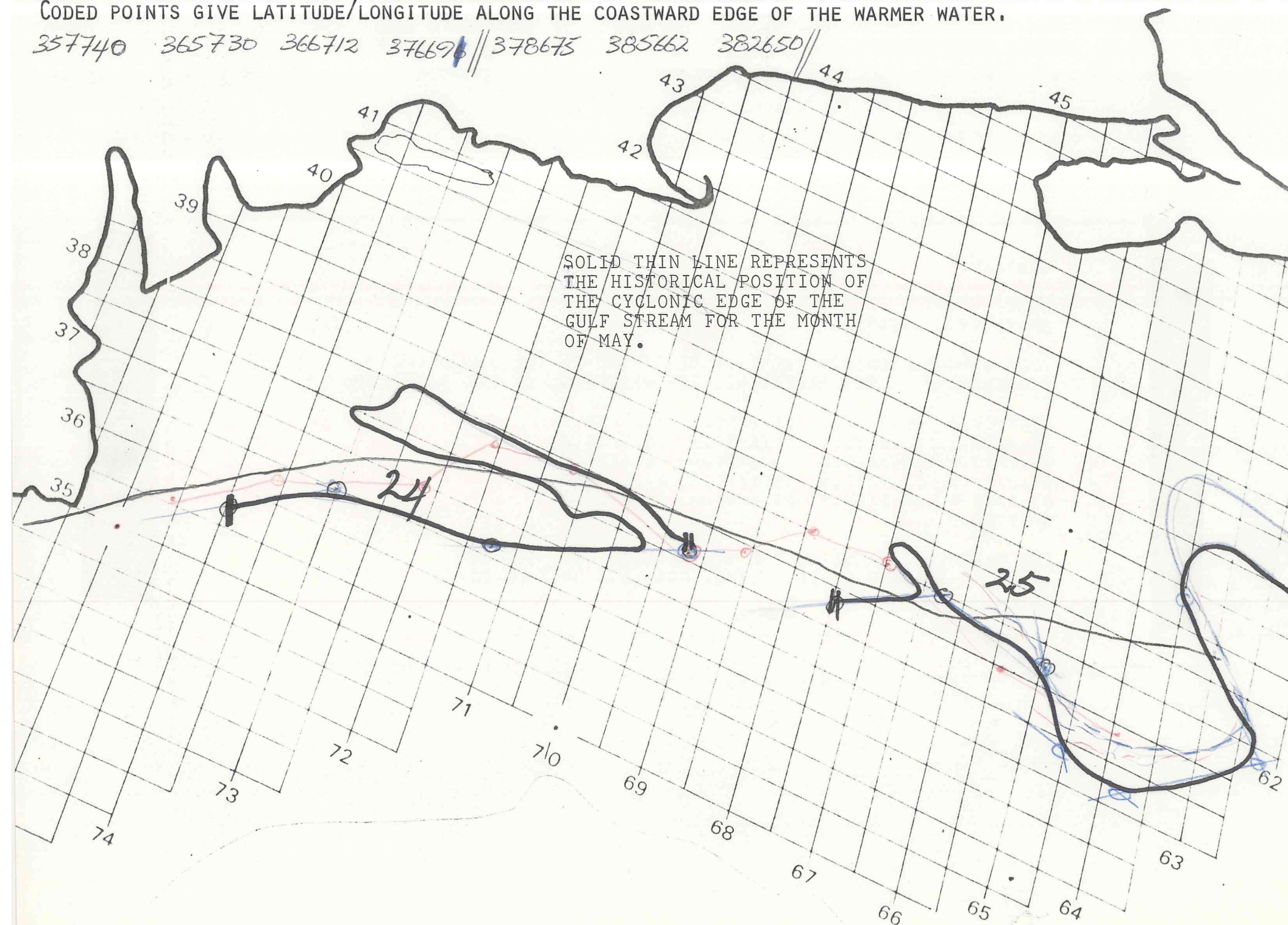
MIAMI SFSS ANALYSIS OF THE GULF STREAM: 25 MAY 1977

PART B

CODED POINTS GIVE LATITUDE/LONGITUDE ALONG THE COASTWARD EDGE OF THE WARMER WATER.

357740 365730 366712 376696 // 378675 385662 382650 //

SOLID THIN LINE REPRESENTS  
THE HISTORICAL POSITION OF  
THE CYCLONIC EDGE OF THE  
GULF STREAM FOR THE MONTH  
OF MAY.



NNNN14V

ZCZC

SXNTI KWBC 252055

GULF STREAM LOCATION THE LINE DESCRIBED BY THE FOLLOWING  
SEQUENCE OF POINTS REPRESENTS THE WEST WALL OF THE GULF STREAM.

27.0/80.0	29.5/80.1	31.0/80.1	31.7/79.3
32.0/78.6	32.0/78.1	32.6/77.4	33.7/76.0
34.1/75.8	35.0/75.0	35.6/74.6	36.4/73.7
37.0/72.2	37.8/71.6	38.0/70.7	37.7/69.1
37.9/68.6	38.5/67.9	38.6/67.0	38.0/65.4
37.9/63.9			

THE MAXIMUM CURRENT OF THE GULF STREAM LIES BETWEEN  
19+25 KM SEAWARD OF THIS LINE. ANALYSIS DATE 05/25/77

MIAMI SFSS ANALYSIS OF THE GULF STREAM: 27 MAY 1977

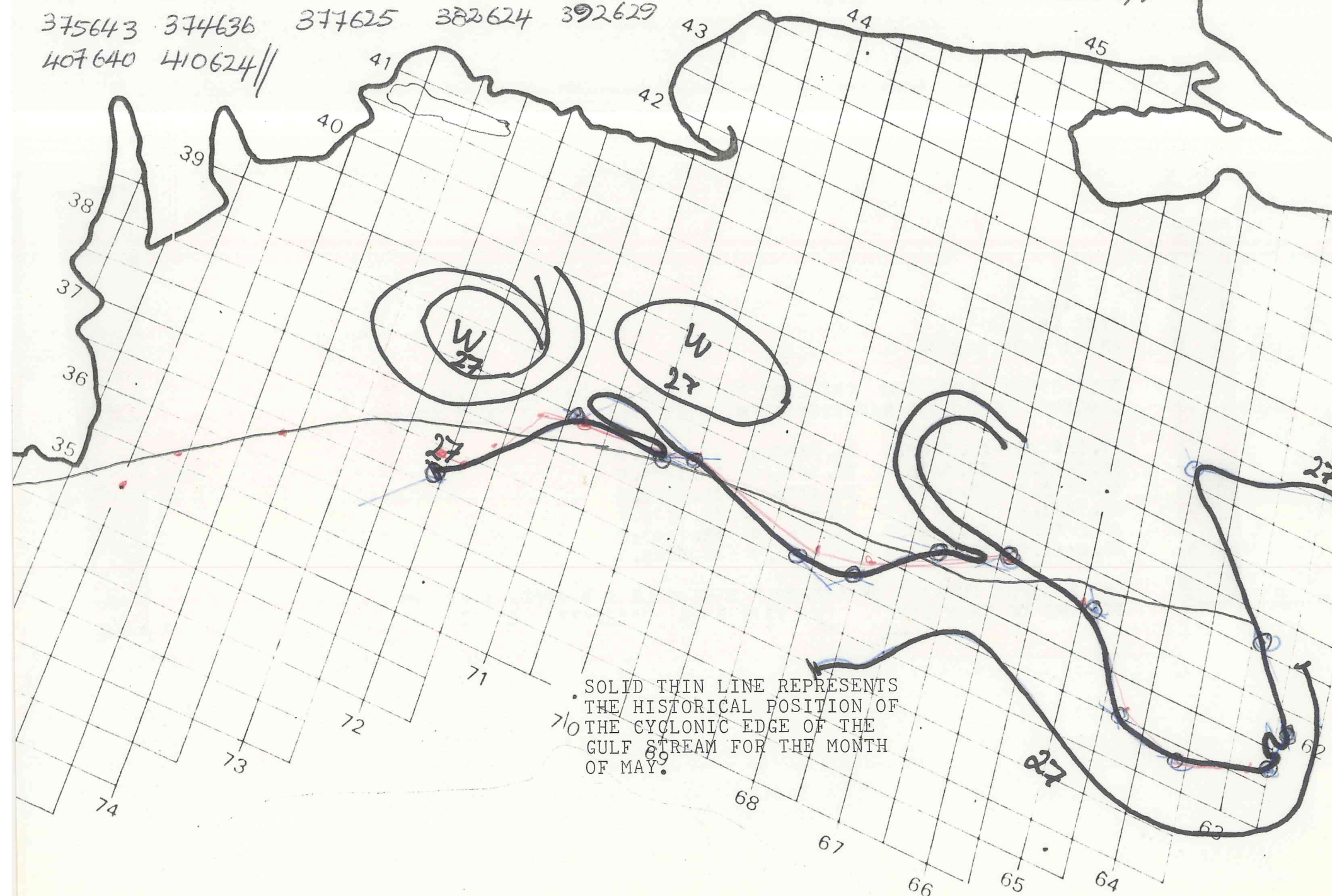
PART B

CODED POINTS GIVE LATITUDE/LONGITUDE ALONG THE COASTWARD EDGE OF THE WARMER WATER.

366721 380709 380699 381695 376687 377675 384667 387659 386649

375643 374636 377625 382624 392629

407640 410624//



NNNN

↓A

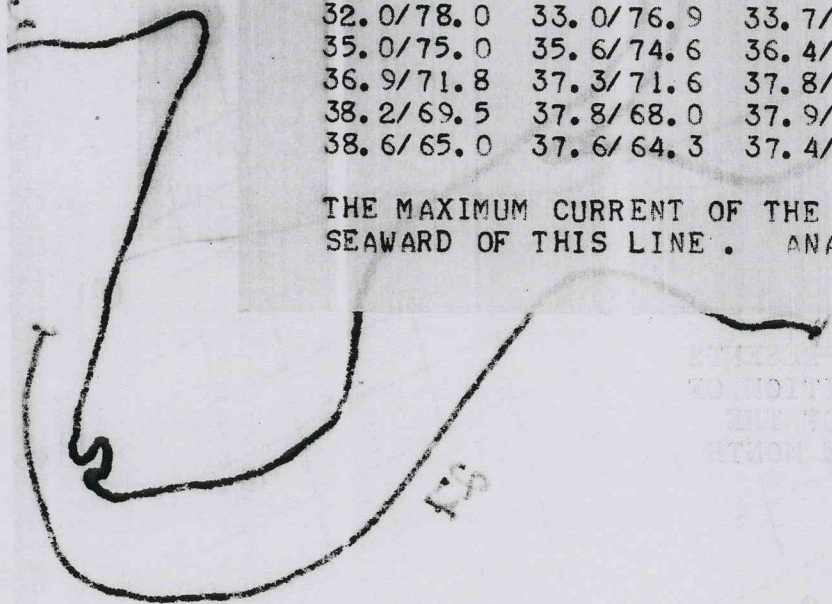
ZCZC WBC406

SXNT1 KWBC 272034

GULF STREAM LOCATION THE LINE DESCRIBED BY THE FOLLOWING  
SEQUENCE OF POINTS REPRESENTS THE WEST WALL OF THE GULF STREAM.

27.0/80.0	29.5/80.1	31.0/80.1	31.7/79.3
32.0/78.0	33.0/76.9	33.7/76.0	34.1/75.8
35.0/75.0	35.6/74.6	36.4/73.7	36.9/72.2
36.9/71.8	37.3/71.6	37.8/71.3	38.0/70.8
38.2/69.5	37.8/68.0	37.9/67.4	38.7/65.8
38.6/65.0	37.6/64.3	37.4/63.7	37.6/62.7

THE MAXIMUM CURRENT OF THE GULF STREAM LIES BETWEEN 19/25 KM  
SEAWARD OF THIS LINE. ANALYSIS DATE 05/27/77 2030Z



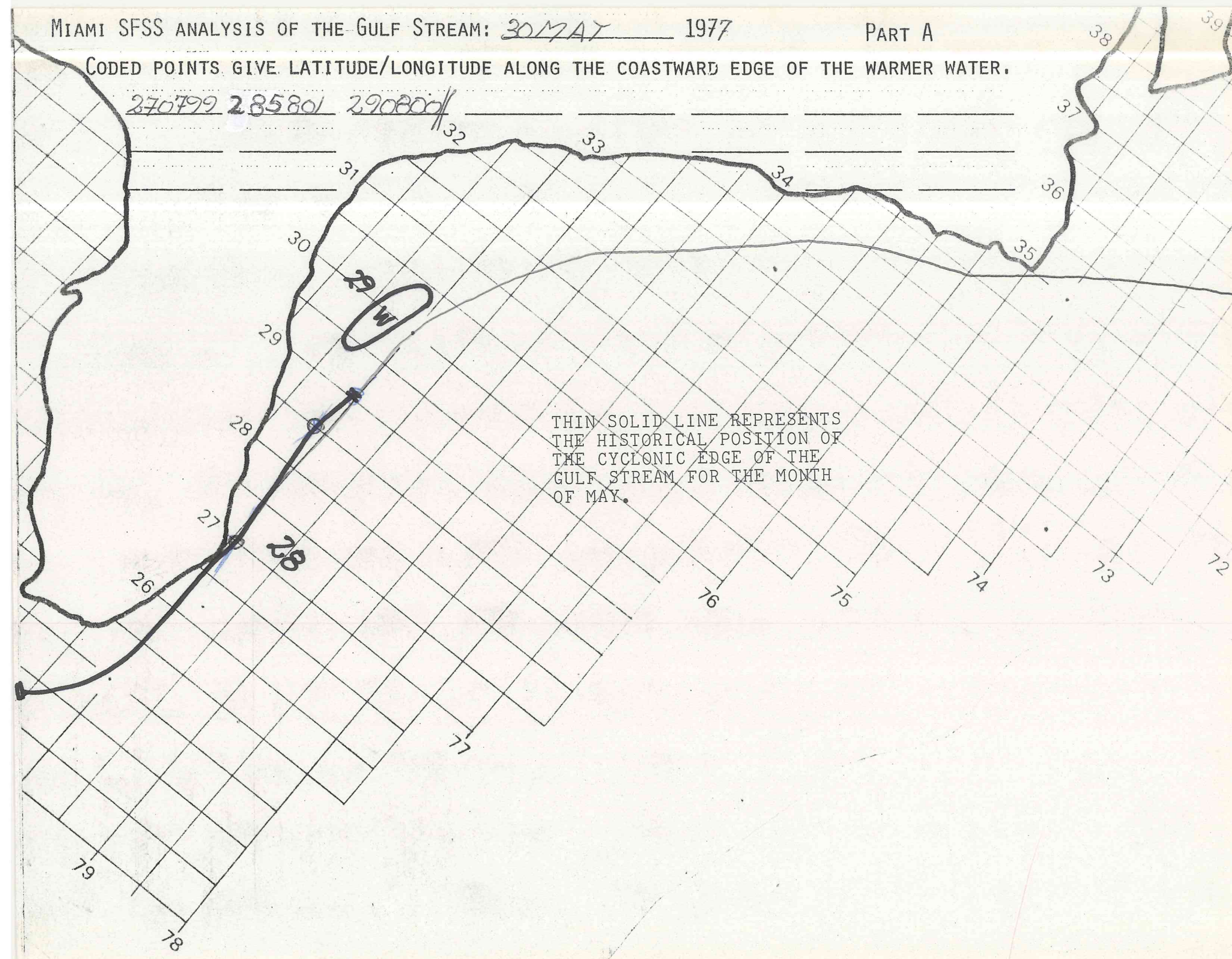
MIAMI SFSS ANALYSIS OF THE GULF STREAM: 30 MAY 1977

PART A

CODED POINTS GIVE LATITUDE/LONGITUDE ALONG THE COASTWARD EDGE OF THE WARMER WATER.

270799 285801 290800 /

THIN SOLID LINE REPRESENTS  
THE HISTORICAL POSITION OF  
THE CYCLONIC EDGE OF THE  
GULF STREAM FOR THE MONTH  
OF MAY.

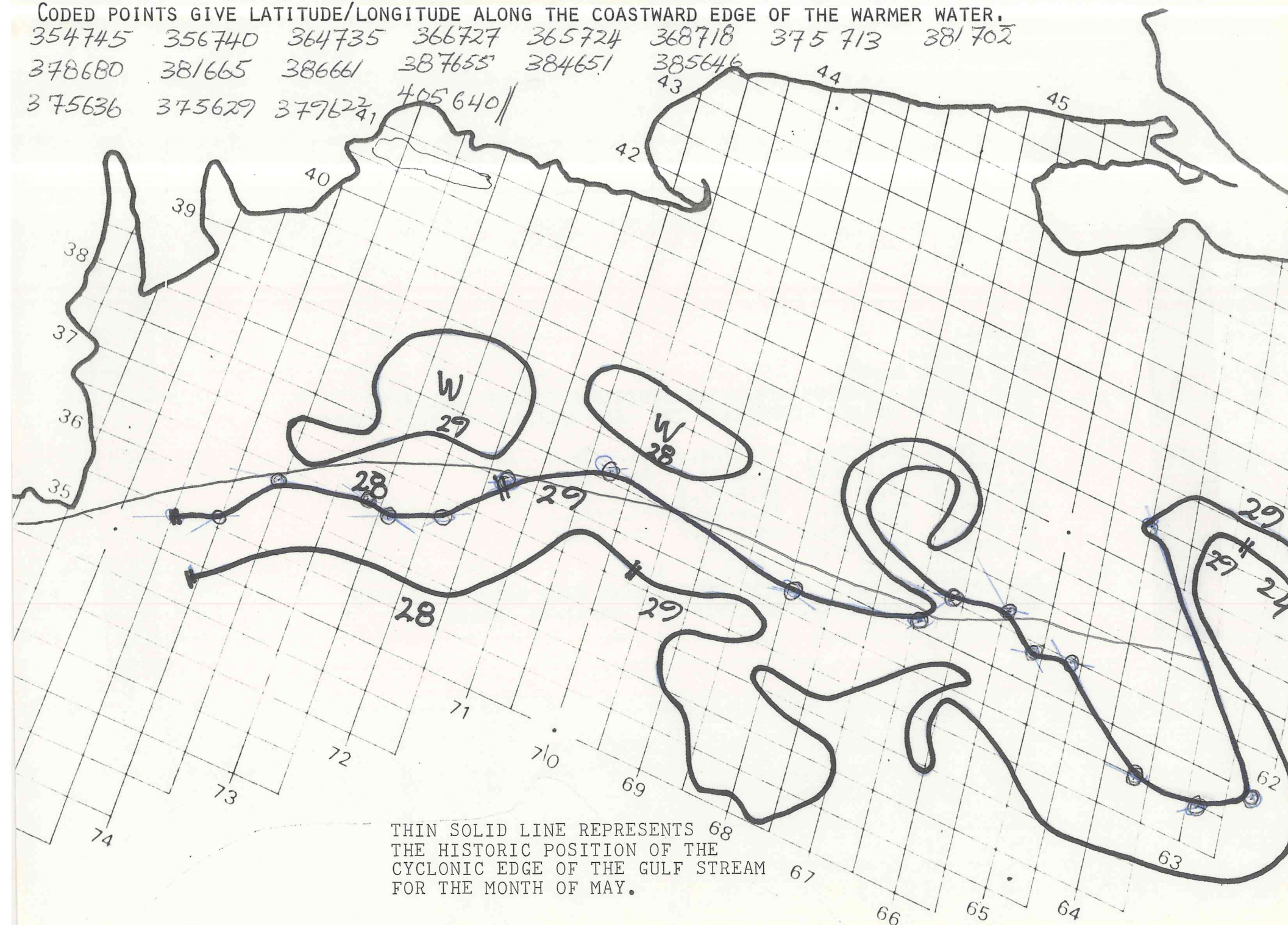


MIAMI SFSS ANALYSIS OF THE GULF STREAM: 30 MAY 1977

PART B

CODED POINTS GIVE LATITUDE/LONGITUDE ALONG THE COASTWARD EDGE OF THE WARMER WATER.

354745 356740 364735 366727 365724 368718 375713 381702  
 378680 381665 386661 387655 384651 385646  
 375636 375629 379623 405640



NNNN↓A

ZCZC WBC514

SXNT1 KWBC 312030

GULF STREAM LOCATION THE LINE DESCRIBED BY THE FOLLOWING  
SEQUENCE OF POINTS REPRESENTS THE WEST WALL OF THE GULF STREAM.

27.0/79.9	28.5/80.1	29.0/80.0	31.0/79.7
31.7/79.0	32.0/78.0	33.0/76.9	34.0/75.9
35.0/75.0	35.4/74.5	35.6/74.0	36.4/73.5
36.6/72.7	36.5/72.4	36.8/71.8	37.5/71.3
38.1/70.2	37.8/68.0	38.1/66.5	38.6/66.1
38.7/65.5	38.4/65.1		

THE MAXIMUM CURRENT OF THE GULF STREAM LIES BETWEEN 19/25KM  
SEAWARD OF THIS LINE. ANALYSIS DATE 05/31/77 2030Z

