71008

-GENERAL INFORMATION

Ship: United Geo I Leg 8

Area of Operation: Caribbean--Gulf Transit

Dates of Operation: DECEMBER 15 - DECEMBER 24, 1971

Personnel: James Case, Chief Scientist

Purpose:

Major Equipment:

Navigation:

Data Acquired:

Comments:

Tabulated Data:

United Geol — Line — J.D. — Time — Analog Gravity

UNITED SEPT 1968

Sheet No. 1 71008

GRAVITY

PROGRAMMER _____ DIVISION _____

LOCATION _____ PHONE _____

U. S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
COMPUTER CODING F

FORTRAN STATEMENT NUMBER | CONT | PROGRAM IDENTIFICATION: Leg 8 - Puerto Rico | PROGRAM INFORMATION:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46
U	0	0	0	1	3	4	9	2	3	0	9				9	9	3	0	.	9				U	0	0	0	1	3	5	0	0	1	3	5				9	8	7	9	.	3	
									1	0					9	9	3	0	.	1														4	0					9	8	7	7	.	1	
									1	5					9	9	2	6	.	7														4	5					9	8	7	6	.	1	
									2	0					9	9	2	4	.	8														5	0					9	8	7	3	.	7	
									2	5					9	9	2	4	.	0													0	1	5	5				9	8	6	7	.	8	
									3	0					9	9	2	1	.	1													0	2	0	0				9	8	5	6	.	8	
									3	5					9	9	1	9	.	7														0	5					9	8	4	2	.	2	
									4	0					9	9	2	0	.	2														1	0					9	8	3	0	.	9	
									4	5					9	9	2	5	.	8														1	5					9	8	2	5	.	9	
									5	0					9	9	2	7	.	1														2	0					9	8	2	3	.	2	
					3	4	9	2	3	5	5				9	9	2	6	.	8														2	5					9	8	2	2	.	9	
					3	5	0	0	0	0	0				9	9	2	7	.	6														3	0					9	8	2	4	.	4	
										0	5				9	9	2	4	.	0														3	5					9	8	2	4	.	7	
										1	0				9	9	1	5	.	6														4	0					9	8	2	7	.	1	
										1	5				9	9	2	0	.	7														4	5					9	8	2	8	.	3	
										2	0				9	9	2	4	.	9														5	0					9	8	2	8	.	8	
										2	5				9	9	2	0	.	8													0	2	5	5				9	8	2	9	.	6	
										3	0				9	9	1	7	.	8													0	3	0	0				9	8	2	5	.	3	
										3	5				9	9	1	1	.	8														0	5					9	8	1	6	.	8	
										4	0				9	8	9	8	.	5														1	0					9	8	0	4	.	1	
										4	5				9	8	9	0	.	1														1	5					9	7	9	8	.	7	
										5	0				9	8	8	2	.	8														2	0					9	8	0	1	.	0	
								0	0	5	5				9	8	8	4	.	4														2	5					9	7	9	9	.	5	
								0	1	0	0				9	8	7	4	.	2														3	0					9	8	0	1	.	4	
										0	5				9	8	8	5	.	2														3	5					9	7	9	9	.	0	
										1	0				9	8	8	6	.	0														4	0					9	8	0	5	.	0	
										1	5				9	8	8	5	.	0														4	5					9	8	0	3	.	3	
										2	0				9	8	8	0	.	4														5	0					9	8	0	2	.	0	
										2	5				9	8	7	8	.	0													0	3	5	5				9	7	9	8	.	7	
										3	0				9	8	8	0	.	2													0	4	0	0				9	7	9	9	.	1	

2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46

RM 9—1635
Y 1967

0 = ZERO Ø = ALPHA O 1 = ONE I = ALPHA I 2 = TWO Z = ALPHA Z / = SLA

No. 2

PROGRAMMER _____ DIVISION _____

LOCATION _____ PHONE _____

U. S. DEPARTMENT OF THE INTERIO
GEOLOGICAL SURVEY
COMPUTER CODING F

FORTRAN STATEMENT NUMBER (C) | CONT

PROGRAM IDENTIFICATION: Leg 8 - Puerto Rico

PROGRAM INFORMATION:

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U0001350040597979.8
          10 9797.1
          15 9800.5
          20 9800.0
          25 9802.3
          30 9799.7
          35 9806.8
          40 9809.1
          45 9814.7
          50 9817.8
       0455  9819.8
       0500  9828.1
          05 9830.9
          10 9837.2
          15 9845.6
          20 9847.0
          25 9854.5
          30 9859.4
          35 9865.1
          40 9858.9
          45 9877.7
          50 9880.9
       0555  9882.0
       0600  9881.0
          05 9881.2
          10 9879.4
          15 9872.1
          20 9870.5
          25 9867.2
          30 9864.8

U0001350063540 9860.9
          45 9857.6
          50 9854.9
       0655  9840.1
       0700  9840.3
          05 9842.4
          10 9831.4
          15 9833.4
          20 9831.2
          25 9828.1
          30 9827.9
          35 9821.0
          40 9819.9
          45 9821.3
          50 9817.9
       0755  9818.6
       0800  9819.5
          05 9816.6
          10 9813.8
          15 9812.1
          20 9809.0
          25 9807.8
          30 9807.8
          35 9806.3
          40 9809.3
          45 9806.9
          50 9806.7
       0855  9801.8
       0900  9799.6
```

FORM 9—1635
JULY 1967

0 = ZERO Ø = ALPHA O 1 = ONE I = ALPHA I 2 = TWO Z = ALPHA Z / = SLA

No. 3

PROGRAMMER _____ DIVISION _____

LOCATION _____ PHONE _____

U. S. DEPARTMENT OF THE INTERI
GEOLOGICAL SURVEY

COMPUTER CODING

FORTRAN STATEMENT NUMBER | C | CONT

PROGRAM IDENTIFICATION: Leg 8 - Puerto Rico

PROGRAM INFORMATION: _____

| C | STATEMENT NUMBER | CONT | | |

No. 4

PROGRAMMER _____ DIVISION _____

LOCATION _____ PHONE _____

U. S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
COMPUTER CODING FO

FORTRAN STATEMENT NUMBER | CONT

PROGRAM IDENTIFICATION: Leg 8 - Puerto Rico

PROGRAM INFORMATION: _____

| | | |

No. 5

PROGRAMMER _____ DIVISION _____

LOCATION _____ PHONE _____

U. S. DEPARTMENT OF THE INTER
GEOLOGICAL SURVEY

COMPUTER CODING

FORTRAN STATEMENT NUMBER | C | CONT

PROGRAM IDENTIFICATION: Leg 8 - Puerto Rico

PROGRAM INFORMATION: _____

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
1	U	0	0	0	1	3	5	0	1	9	0	5				9	7	2	1	.	9				U	0	0	0	1	3	5	0	2	1	3	5				9	7	5	8	.	1
2											1	0				9	7	2	1	.	2															4	0				9	7	5	8	.	3
3											1	5				9	7	2	2	.	4															4	5				9	7	5	8	.	9
4											2	0				9	7	2	1	.	3												↓	↓	5	0				9	7	5	5	.	9
5											2	5				9	7	2	1	.	1												2	1	5	5				9	7	5	8	.	2
6											3	0				9	7	2	4	.	3												2	2	0	0				9	7	5	8	.	5
7											3	5				9	7	2	6	.	9														0	5				9	7	5	6	.	7
8											4	0				9	7	2	4	.	8														1	0				9	7	5	5	.	7
9											4	5				9	7	2	5	.	9														1	5				9	7	5	3	.	9
10									↓	↓	5	0				9	7	2	7	.	3														2	0				9	7	5	1	.	8
11									1	9	5	5				9	7	2	8	.	3														2	5				9	7	5	0	.	1
12									2	0	0	0				9	7	2	4	.	4														3	0				9	7	5	2	.	0
13											0	5				9	7	3	1	.	0														3	5				9	7	5	1	.	0
14											1	0				9	7	2	8	.	9														4	0				9	7	3	8	.	8
15											1	5				9	7	3	1	.	3														4	5				9	7	2	3	.	6
16											2	0				9	7	3	2	.	0												↓	↓	5	0				9	7	4	4	.	7
17											2	5				9	7	3	1	.	9												2	2	5	5				9	7	4	1	.	2
18											3	0				9	7	3	1	.	8												2	3	0	0				9	7	3	6	.	1
19											3	5				9	7	3	4	.	4														0	5				9	7	3	6	.	9
20											4	0				9	7	3	6	.	2														1	0				9	7	3	7	.	2
21											4	5				9	7	3	5	.	3														1	5				9	7	3	3	.	2
22									↓	↓	5	0				9	7	4	3	.	8														2	0				9	7	3	4	.	2
23									2	0	5	5				9	7	4	6	.	4														2	5				9	7	3	5	.	0
24									2	1	0	0				9	7	4	8	.	9														3	0				9	7	3	4	.	3
25											0	5				9	7	5	0	.	7														3	5				9	7	3	5	.	9
26											1	0				9	7	4	5	.	3														4	0				9	7	3	6	.	1
27											1	5				9	7	5	6	.	0														4	5				9	7	3	4	.	3
28											2	0				9	7	5	7	.	9								↓	↓	↓	↓	↓	5	0				9	7	3	7	.	9
29											2	5				9	7	5	8	.	1								3	5	0	2	3	5	5				9	7	3	9	.	5
30	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	3	0				9	7	5	9	.	0				↓	↓	↓	↓	↓	3	5	1	0	0	0	0				9	7	3	7	.	2
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45

FORM 9—1635
JULY 1967

0 = ZERO Ø = ALPHA O 1 = ONE I = ALPHA I 2 = TWO Z = ALPHA Z / = SL

No. 6

PROGRAMMER _____ DIVISION _____

LOCATION _____ PHONE _____

U. S. DEPARTMENT OF THE INTERI
GEOLOGICAL SURVEY

COMPUTER CODING

FORTRAN STATEMENT NUMBER (C) | CONT

PROGRAM IDENTIFICATION: Leg 8 - Puerto Rico

PROGRAM INFORMATION: _____

| C | STATEMENT NUMBER | CONT | | |

No. 7

PROGRAMMER _____ DIVISION _____

LOCATION _____ PHONE _____

U. S. DEPARTMENT OF THE INTERI
GEOLOGICAL SURVEY

COMPUTER CODING

FORTRAN STATEMENT C NUMBER | CONT

PROGRAM IDENTIFICATION: Leg 8 - Puerto Rico

PROGRAM INFORMATION: _____

```
1   4 0 0 0 1 3 5 1 0 5 0 5          9 7 3 7 . 7   4 0 0 0 1 3 5 1 0 7 3 5          9 7 1 7 . 2
2                 1 0                9 7 3 7 . 1                 4 0                9 7 1 8 . 7
3                 1 5                9 7 3 6 . 5                 4 5                9 7 1 7 . 4
4                 2 0                9 7 3 4 . 7                 5 0                9 7 1 7 . 6
5                 2 5                9 7 3 0 . 4                 0 7 5 5            9 7 1 7 . 1
6                 3 0                9 7 2 9 . 9                 0 8 0 0            9 7 1 9 . 3
7                 3 5                9 7 3 0 . 4                 0 5                9 7 1 9 . 3
8                 4 0                9 7 2 9 . 1                 1 0                9 7 2 0 . 0
9                 4 5                9 7 2 5 . 3                 1 5                9 7 2 1 . 0
0                 5 0                9 7 2 4 . 3                 2 0                9 7 2 4 . 5
1               0 5 5 5              9 7 2 5 . 0                 2 5                9 7 2 8 . 2
2               0 6 0 0              9 7 2 3 . 2                 3 0                9 7 3 0 . 1
3                   0 5              9 7 2 2 . 5                 3 5                9 7 3 2 . 3
4                   1 0              9 7 2 0 . 7                 4 0                9 7 3 9 . 0
5                   1 5              9 7 1 9 . 2                 4 5                9 7 4 7 . 2
6                   2 0              9 7 1 8 . 6                 5 0                9 7 5 2 . 8
7                   2 5              9 7 1 8 . 5                 0 8 5 5            9 7 6 4 . 3
8                   3 0              9 7 1 6 . 9                 0 9 0 0            9 7 6 9 . 9
9                   3 5              9 7 1 6 . 9                 0 5                9 7 7 4 . 7
0                   4 0              9 7 1 8 . 1                 1 0                9 7 7 4 . 1
1                   4 5              9 7 1 9 . 2                 1 5                9 7 7 3 . 1
2                 5 0                9 7 1 9 . 4                 2 0                9 7 7 0 . 3
3               0 6 5 5              9 7 2 0 . 2                 2 5                9 7 6 5 . 6
4               0 7 0 0              9 7 2 0 . 0                 3 0                9 7 6 1 . 4
5                   0 5              9 7 2 2 . 1                 3 5                9 7 5 9 . 9
6                   1 0              9 7 2 3 . 0                 4 0                9 7 5 5 . 0
7                   1 5              9 7 2 1 . 4                 4 5                9 7 5 4 . 5
8                   2 0              9 7 2 2 . 2                 5 0                9 7 5 5 . 1
9                   2 5              9 7 2 0 . 8                 0 9 5 5            9 7 5 3 . 0
0                   3 0              9 7 1 9 . 3                 1 0 0 0            9 7 5 4 . 2
```

FORM 9—1635
JULY 1967

0 = ZERO Ø = ALPHA O 1 = ONE I = ALPHA I 2 = TWO Z = ALPHA Z / = SL

No. 8

PROGRAMMER _____ DIVISION _____

LOCATION _____ PHONE _____

U. S. DEPARTMENT OF THE INTERIO
GEOLOGICAL SURVEY
COMPUTER CODING F

PROGRAM IDENTIFICATION: Leg 8 - Puerto Rico

PROGRAM INFORMATION: _____

| | | |

No. 9

PROGRAMMER _____ DIVISION _____

LOCATION _____ PHONE _____

U. S. DEPARTMENT OF THE INTERIO
GEOLOGICAL SURVEY
COMPUTER CODING F

PROGRAM IDENTIFICATION: Leg 8 - Puerto Rico

PROGRAM INFORMATION: _____

| | | |

No. 10

PROGRAMMER _____ DIVISION _____

LOCATION _____ PHONE _____

U. S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
COMPUTER CODING F

PROGRAM IDENTIFICATION: Leg 8 — Puerto Rico

PROGRAM INFORMATION:

| | | |

No. 11

PROGRAMMER | DIVISION | U. S. DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

LOCATION | PHONE | COMPUTER CODING F

PROGRAM IDENTIFICATION: Leg 8 - Puerto Rico

PROGRAM INFORMATION:

U00013520105	9684.8	U00013520335	9851.8
10	9686.3	40	9858.4
15	9684.0	45	9863.8
20	9684.3	50	9869.5
25	9688.1	0355	9878.2
30	9687.7	0400	9890.1
35	9682.3	05	9898.4
40	9683.0	10	9899.6
45	9682.3	15	9892.9
50	9685.5	20	9882.2
0155	9684.6	25	9871.7
0200	9687.3	30	9859.9
05	9689.2	35	9850.2
10	9692.0	40	9838.2
15	9694.0	45	9824.6
20	9700.7	50	9809.4
25	9705.1	0455	9790.5
30	9710.6	0500	9780.6
35	9717.8	05	9769.9
40	9727.9	10	9761.6
45	9737.7	15	9755.9
50	9749.1	20	9750.7
0255	9763.7	25	9749.7
0300	9777.5	30	9748.8
05	9792.6	35	9749.2
10	9806.8	40	9749.8
15	9819.9	45	9750.0
20	9832.7	50	9752.9
25	9841.0	0555	9753.8
30	9847.3	0600	9756.3

FORM 2-1624
JULY 1967

0 = ZERO | Ø = ALPHA O | 1 = ONE | I = ALPHA I | 2 = TWO | Z = ALPHA Z | / = SL

No. 12

PROGRAMMER | DIVISION | U. S. DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

LOCATION | PHONE | COMPUTER CODING F

PROGRAM IDENTIFICATION: Leg 8 - Puerto Rico

PROGRAM INFORMATION:

| | | |

No. 13

PROGRAMMER | DIVISION | U. S. DEPARTMENT OF THE INTERIOR
LOCATION | PHONE | GEOLOGICAL SURVEY
COMPUTER CODING F

PROGRAM IDENTIFICATION: Leg 8 - Puerto Rico

PROGRAM INFORMATION:

```
U0001.3521105   9808.2
          10    9810.3
          15    9815.9
          20    9819.6
          25    9822.8
          30    9829.1
          35    9833.6
          40    9835.4
          45    9844.2
          50    9851.9
        1155    9859.5
        1200    9863.9
          05    9871.1
          10    9878.6
          15    9883.8
          20    9885.9
          25    9890.8
          30    9891.4
          35    9892.3
          40    9892.6
          45    9890.2
          50    9890.3
        1255    9891.2
        1300    9893.9
          05    9895.5
          10    9897.7
          15    9899.0
          20    9902.1
          25    9902.6
          30    9907.0

U0001.3521335   9907.8
          40    9907.9
          45    9910.1
          50    9907.0
        1355    9905.4
        1400    9901.8
          05    9895.3
          10    9887.6
          15    9881.7
          20    9876.7
          25    9871.0
          30    9867.4
          35    9863.8
          40    9862.1
          45    9859.7
          50    9859.1
        1455    9859.0
        1500    9858.7
          05    9859.9
          10    9859.6
          15    9860.2
          20    9862.6
          25    9862.2
          30    9863.7
          35    9865.0
          40    9866.9
          45    9867.6
          50    9867.0
        1555    9863.9
        1600    9862.9
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0 = ZERO | Ø = ALPHA O | 1 = ONE | I = ALPHA I | 2 = TWO | Z = ALPHA Z

No. 14

PROGRAMMER | DIVISION | U. S. DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

LOCATION | PHONE | COMPUTER CODING F

PROGRAM IDENTIFICATION: Leg 8 - Puerto Rico

PROGRAM INFORMATION:

U0001352	1605	9857.6	
	10	9857.7	
	15	9858.3	
	20	9860.2	
	25	9865.9	
	30	9872.2	
	35	9882.3	
	40	9895.1	
	45	9907.8	
	50	9917.7	
	1655	9919.7	
	1700	9918.2	
	05	9916.9	
	10	9910.9	
	15	9903.6	
	20	9892.3	
	25	9878.9	
	30	9863.9	
	35	9849.0	
	40	9838.0	
	45	9829.0	
	50	9821.1	
	1755	9816.6	
	1800	9816.0	
	05	9814.6	
	10	9813.0	
	15	9811.7	
	20	9810.0	
	25	9807.4	
	30	9807.1	

U0001352	1835	9804.5	
	40	9804.4	
	45	9804.3	
	50	9802.2	
	1855	9801.8	
	1900	9802.9	
	05	9802.2	
	10	9801.7	
	15	9801.3	
	20	9800.8	
	25	9796.9	
	30	9796.0	
	35	9796.0	
	40	9795.0	
	45	9796.1	
	50	9795.1	
	1955	9793.4	
	2000	9792.3	
	05	9790.6	
	10	9789.6	
	15	9787.8	
	20	9786.6	
	25	9785.5	
	30	9784.5	
	35	9783.3	
	40	9781.6	
	45	9779.4	
	50	9776.8	
	2055	9773.9	
	2100	9770.0	

FORM [illegible] 1634
JULY 1967

0 = ZERO | Ø = ALPHA O | 1 = ONE | I = ALPHA I | 2 = TWO | Z = ALPHA Z

No. 15

PROGRAMMER | DIVISION | U. S. DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

LOCATION | PHONE | COMPUTER CODING F

PROGRAM IDENTIFICATION: Leg 8 Puerto Rico

PROGRAM INFORMATION:

| | | |

No. 16

PROGRAMMER | DIVISION | U.S. DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

LOCATION | PHONE | COMPUTER CODING F

PROGRAM IDENTIFICATION: Leg 8 - Puerto Rico

PROGRAM INFORMATION:

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U0001353020505    9780.9
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                  15  9779.3
                  20  9780.4
                  25  9779.0
                  30  9778.4
                  35  9779.7
                  40  9779.9
                  45  9779.1
                  50  9779.1
            0255  9779.6
            0300  9780.9
                  05  9781.2
                  10  9782.3
                  15  9784.3
                  20  9785.3
                  25  9786.7
                  30  9789.3
                  35  9790.1
                  40  9791.3
                  45  9794.2
                  50  9796.2
            0355  9798.4
            0400  9800.9
                  05  9804.0
                  10  9806.9
                  15  9809.0
                  20  9810.2
                  25  9812.7
                  30  9814.8

U0001353043540    9816.2
                  40  9818.3
                  45  9820.0
                  50  9820.6
            0455  9820.8
            0500  9820.7
                  05  9821.3
                  10  9820.5
                  15  9820.1
                  20  9820.3
                  25  9820.7
                  30  9820.7
                  35  9820.9
                  40  9821.3
                  45  9820.9
                  50  9820.4
            0555  9819.2
            0600  9817.8
                  05  9819.4
                  10  9818.6
                  15  9819.4
                  20  9819.8
                  25  9819.5
                  30  9820.3
                  35  9820.2
                  40  9821.3
                  45  9821.8
                  50  9822.1
            0655  9827.0
            0700  9826.9
```

FORM 9-1634
JULY 1967

0 = ZERO | Ø = ALPHA O | 1 = ONE | I = ALPHA I | 2 = TWO | Z = ALPHA Z

No. 17

PROGRAMMER | DIVISION | U. S. DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

LOCATION | PHONE | COMPUTER CODING F

PROGRAM IDENTIFICATION: Leg 8 - Puerto Rico

PROGRAM INFORMATION:

U0001353070 5	9828.2	U0001353093 5	9810.5
10	9829.3	40	9810.0
15	9830.8	45	9809.9
20	9831.9	50	9809.7
25	9832.9	0955	9805.9
30	9832.3	1000	9799.5
35	9831.3	05	9806.1
40	9830.6	10	9798.1
45	9827.1	15	9800.0
50	9825.1	20	9804.0
0755	9822.0	25	9800.9
0800	9822.0	30	9801.9
05	9822.9	35	9797.0
10	9821.1	40	9793.9
15	9821.1	45	9795.3
20	9820.3	50	9790.4
25	9822.0	1055	9792.1
30	9821.9	1100	9790.1
35	9822.4	05	9786.3
40	9822.9		
45	9822.8		
50	9824.6		
0855	9822.9		
0900	9825.7		
05	9826.1	11	9781.9
10	9825.3	20	9780.2
15	9824.1	30	9775.8
20	9820.9	40	9772.4
25	9820.2	50	9770.0
30	9814.5	1200	9769.6

From this Point on a 10 min interva is used.

FORM 9-[illegible]
JULY 1967

0 = ZERO | ø = ALPHA O | 1 = ONE | I = ALPHA I | 2 = TWO | Z = ALPHA Z | / = CL

No. 18

PROGRAMMER DIVISION

LOCATION PHONE

U. S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
COMPUTER CODING F

PROGRAM IDENTIFICATION: Leg 8 — Puerto Rico

PROGRAM INFORMATION:

```
U0001353121 0   9769.9
          20    9769.7
          30    9769.1
        40      9774.2
    1250        9782.0
    1300        9787.7
      10        9796.0
      20        9806.1
      30        9814.9
    40          9826.6
    1350        9838.0
    1400        9848.3
      10        9855.9
      20        9856.0
      30        9857.2
    40          9853.3
    1450        9850.7
    1500        9859.9
      10        9865.8
      20        9875.8
      30        9889.1
    40          9900.6
    1550        9915.7
    1600        9917.5
      10        9918.1
      20        9922.2
      30        9926.0
    40          9933.3
    1650        9935.3
    1700        9946.8

U0001353171 0   9939.6
          20    9924.4
          30    9889.9
        40      9888.2
    1750        9876.2
    1800        9884.3
      10        9897.7
      20        9929.0
      30        9941.9
    40          9941.7
    1850        9944.7
    1900        9949.1
      10        9959.2
      20        9969.2
      30        9961.0
    40          9950.2
    1950        9947.9
    2000        9956.3
      10        9959.8
      20        9947.8
      30        9936.4
    40          9928.9
    2050        9921.5
    2100        9914.4
      10        9912.7
      20        9912.4
      30        9910.1
    40          9908.0
    2150        9909.7
    2200        9907.0
```

FORM 9-1634
JULY 1967

0 = ZERO ∅ = ALPHA O 1 = ONE I = ALPHA I 2 = TWO Z = ALPHA Z / = SL

No. 19

PROGRAMMER | DIVISION | PHONE

U. S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
COMPUTER CODING

PROGRAM IDENTIFICATION: Leg 8 - Puerto Rico

PUNCHING INFORMATION:

U0001353221 0	9902.3
	No-Record
	?
3540410	9942.8
20	9941.3
30	9937.8
40	9938.6
0450	9944.3
0500	9951.8
10	9959.1
20	9959.2
30	9960.1
40	9964.9
0550	9970.3
0600	9975.7
10	9975.1
20	9965.7
30	9954.8
40	9941.2
0650	9931.1
0700	9928.0
10	9926.3
20	9924.4
30	9928.8
40	9934.7
0750	9940.4
0800	9939.0

U0001354081 0	9935.7
20	9935.7
30	9933.0
40	9933.3
0850	9936.9
0900	9936.5
10	9938.7
20	9938.7
30	9945.1
40	9946.2
0950	9945.8
1000	9945.4
10	9946.4
20	9945.3
30	9947.7
40	9945.4
1050	9946.8
1100	9943.3
10	9937.8
20	9931.2
30	9934.0
40	9934.1
1150	9933.6
1200	9934.8
10	9936.8
20	9941.8
30	9939.2
40	9938.2
1250	9941.7
1300	9942.4

FORM X-1634
JULY 1967

0 = ZERO | Ø = ALPHA O | 1 = ONE | I = ALPHA I | 2 = TWO | Z = ALPHA Z

No. 20

PROGRAMMER | DIVISION | U. S. DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

LOCATION | PHONE | COMPUTER CODING F

PROGRAM IDENTIFICATION: Leg 8 - Puerto Rico

PROGRAM INFORMATION:

U0001354 1310	9947.2	U0001354 1810	9951.9
20	9948.8	20	9952.4
30	9953.9	30	9953.0
40	9953.4	40	9954.8
1350	9947.7	1850	9956.8
1400	9940.2	1900	9961.2
10	9933.3	10	9962.9
20	9932.3	20	9963.2
30	9930.6	?	No Recor
40	9927.8	0	
1450	9936.7	2040	9971.8
1500	9934.2	2050	9977.8
10	9934.3	2100	9979.5
20	9935.9	10	9980.3
30	9934.6	20	9982.5
40	9941.3	30	9983.6
1550	9937.3	40	9986.8
1600	9941.8	2150	9986.8
10	9940.6	2200	9987.9
20	9942.3	10	9984.3
30	9946.4	20	9987.4
40	9948.8	30	9985.3
1650	9948.3	40	9979.3
1700	9949.5	2250	9975.7
10	9949.6	2300	9972.6
20	9949.9	10	9970.2
30	9948.2	20	9946.3
40	9951.3	30	9965.7
1750	9949.4	40	9962.6
1800	9948.9		

FORM P - 1634
JULY 1967

0 = ZERO | Ø = ALPHA O | 1 = ONE | I = ALPHA I | 2 = TWO | Z = ALPHA Z

No. 21

PROGRAMMER _____ DIVISION _____

LOCATION _____ PHONE _____

U. S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
COMPUTER CODING

PROGRAM IDENTIFICATION: Leg 8 - Puerto Rico

PROGRAM INFORMATION:

U00013542350	9964.6	U00013550450	9964.3
35500000	9968.5	0500	9959.1
10	9975.2	10	9956.2
20	9981.3	20	9960.2
30	9981.1	30	9967.1
40	9973.1	40	9964.8
0050	9964.4	0550	9968.1
0100	9955.6	0600	9975.0
10	9950.5	10	9980.7
20	9945.3	20	9986.7
30	9943.0	30	9990.0
40	9940.7	40	9997.0
0150	9937.8	0650	10004.3
0200	9938.6	0700	10011.2
10	9935.6	10	10018.8
20	9944.0	20	10029.6
30	9948.9	30	10042.7
40	9956.0	40	10056.5
0250	9966.5	0750	10069.7
0300	9975.7	0800	10077.7
10	9981.8	10	10085.3
20	9983.4	20	10088.9
30	9978.5	30	10095.2
40	9971.1	40	10097.2
0350	9959.8	0850	10099.2
0400	9956.7	0900	10106.6
10	9963.1	10	10117.8
20	9966.2	20	10127.8
30	9964.4	30	10135.9
40	9964.7	40	10133.2

FORM 9-1034
JULY 1967

0 = ZERO Ø = ALPHA O 1 = ONE I = ALPHA I 2 = TWO Z = ALPHA Z

No. 22

PROGRAMMER _____ DIVISION _____

LOCATION _____ PHONE _____

U. S. DEPARTMENT OF THE INTERIO
GEOLOGICAL SURVEY
COMPUTER CODING F

PROGRAM IDENTIFICATION: Leg 8 - Puerto Rico

PROGRAM INFORMATION: _____

```
U0001355095010133.1
1000101334.9
10101336.6
20101351.1
30101383.3
40101406.6
1050101430.0
1100101390.0
10101335.5
20101311.1
30101301.1
40101287.7
1150101220.0
1200101187.7
10101186.6
20101203.3
30101213.3
40101242.2
1250101288.8
1300101280.0
10101250.0
20101293.3
30101317.7
40101299.9
1350101333.3
1400101341.1
10101288.8
20101216.6
30101139.9
40101069.9
U0001355145010102.1
1500101099.1
10101097.8
20101097.9
30101100.2
40101013.3
1550101039.9
1600101067.7
10101068.8
20101070.0
30101056.6
40101054.4
1650101044.4
1700101032.2
10101043.3
20101091.1
30101134.4
40101171.1
1750101189.9
1800101202.2
10101208.8
20101216.6
30101204.4
40101237.7
1850101268.8
1900101310.0
10101338.8
20101392.2
30101397.7
40101396.6
```

FORM 9--1634
JULY 1967

0 = ZERO Ø = ALPHA O 1 = ONE I = ALPHA I 2 = TWO Z = ALPHA Z / = SLA

No. 23

PROGRAMMER _____ DIVISION _____

LOCATION _____ PHONE _____

U. S. DEPARTMENT OF THE INTERIO
GEOLOGICAL SURVEY
COMPUTER CODING F

PROGRAM IDENTIFICATION: Leg 8 - Puerto Rico

PROGRAM INFORMATION: _____

| | | |

No. 24

PROGRAMMER _____ DIVISION _____

LOCATION _____ PHONE _____

U. S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
COMPUTER CODING F

PROGRAM IDENTIFICATION: Leg 8 - Puerto Rico

PROGRAM INFORMATION: _____

| | | |

No. 25

PROGRAMMER _____ DIVISION _____

LOCATION _____ PHONE _____

U. S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
COMPUTER CODING F

PROGRAM IDENTIFICATION: Leg 8 - Puerto Rico

PROGRAM INFORMATION: _____

```
U00013561550    10190.3
          1600  10195.2
            10  10204.4
            20  10207.4
            30  10211.9
          1640  10214.3
          1650  10219.2
          1700  10222.6
            10  10225.3
            20  10227.3
            30  10229.8
          1740  10230.1
          1750  10231.4
          1800  10229.5
            10  10226.4
            20  10228.0
            30  10226.7
          1840  10227.7
          1850  10227.6
          1900  10228.9
            10  10230.1
            20  10230.3
            30  10234.0
          1940  10233.3
          1950  10233.4
          2000  10234.4
            10  10234.7
            20  10234.2
            30  10237.3
          2040  10234.0

U00013562050    10234.4
          2100  10235.3
            10  10233.6
            20  10235.2
            30  10234.8
          2140  10235.4
          2150  10235.3
          2200  10235.8
            10  10235.4
            20  10235.1
            30  10235.7
          2240  10234.8
          2250  10235.3
          2300  10234.9
            10  10234.9
            20  10234.7
            30  10236.6
          2340  10237.0
35623450        10241.4
35700000        10244.3
            10  10245.2
            20  10228.0
            30  10254.1
          2340  10257.1
          0050  10259.6
          0100  10260.8
            10  10263.9
            20  10263.9
            30  10266.7
          0040  10267.9
```

FORM 9-1634
JULY 1967

0 = ZERO Ø = ALPHA O 1 = ONE I = ALPHA I 2 = TWO Z = ALPHA Z / = SLA

No. 26

PROGRAMMER ____ DIVISION ____

LOCATION ____ PHONE ____

U. S. DEPARTMENT OF THE INTERIO
GEOLOGICAL SURVEY
COMPUTER CODING F

PROGRAM IDENTIFICATION: Leg 8 - Puerto Rico

PROGRAM INFORMATION: ____

| | | |

No. 27

PROGRAMMER | DIVISION | U. S. DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

LOCATION | PHONE | COMPUTER CODING F

PROGRAM IDENTIFICATION: Leg 8 - Puerto Rico

PROGRAM INFORMATION:

U00013571150	10293.6	U00013571650	10348.0
1200	10291.2	1700	10347.2
10	10287.4	10	10349.0
20	10285.3	20	10351.9
30	10285.6	30	10357.1
40	10285.9	40	10355.5
1250	10288.7	1750	10354.8
1300	10292.3	1800	10360.7
10	10294.6	10	10363.6
20	10297.8	20	10314.3
30	10303.2	30	10315.6
40	10303.9	40	10314.3
1350	10305.1	1850	10314.1
1400	10305.4	1900	10314.6
10	10310.7	10	10314.1
20	10312.3	20	10360.3
30	10313.8	30	10358.7
40	10314.6	40	10358.7
1450	10315.6	1950	10358.5
1500	10317.8	2000	10361.4
10	10321.3	10	10363.3
20	10323.8	20	10364.9
30	10325.3	30	10367.9
40	10325.4	40	10371.3
1550	10327.4	2050	10375.7
1600	10329.3	2100	10379.7
10	10332.8	10	10380.9
20	10336.6	20	10380.0
30	10341.2	30	10382.2
40	10344.4	40	10385.8

0 = ZERO | Ø = ALPHA O | 1 = ONE | I = ALPHA I | 2 = TWO | Z = ALPHA Z

No. 28

PROGRAMMER | DIVISION | LOCATION | PHONE

U. S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
COMPUTER CODING F

PROGRAM IDENTIFICATION: Leg 8 - Puerto Rico

PROGRAM INFORMATION:

U0001357 2150	10390.7
2200	10396.5
10	10400.9
20	10404.6
30	10406.8
40	10409.4
2250	10412.0
2300	10413.1
10	10415.7
20	10417.9
30	10422.0
40	10428.3
3572350	10428.2
3580000	10429.7
10	10427.6
20	10426.3
30	10425.7
40	10424.1
0050	10425.5
0100	10425.7
10	10428.9
20	10432.8
30	10433.1
40	10431.7
0150	10431.8
0200	Course .
10	Change .
20	10392.9
30	10391.9
40	10391.3

U0001358 0250	10391.8
0300	10389.0
10	10388.6
20	10387.1
30	10387.2
40	10385.8
0350	10385.4
0400	10383.2
10	10382.3
20	10382.5
30	10380.6
40	10380.4
0450	10377.8
0500	10377.1
10	10377.7
20	10373.6
30	10363.5
40	10366.4
0550	10363.3
0600	10365.7
10	10365.7
20	10366.9
30	10365.5
40	10367.4
0650	10368.4
0700	10368.6
10	10370.2
20	10369.6
30	10368.3
40	10370.4

0 = ZERO | Ø = ALPHA O | 1 = ONE | I = ALPHA I | 2 = TWO | Z = ALPHA Z

No. 29

PROGRAMMER | DIVISION | U. S. DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

LOCATION | PHONE | COMPUTER CODING F

PROGRAM IDENTIFICATION: Leg - 8 - Puerto Rico

PROGRAM INFORMATION:

U0001	35807 50	10368.2
	0800	10368.4
	10	10367.9
	20	10368.3
	30	10370.8
	40	10372.3
	0850	10372.9
	0900	10371.7
	10	10371.5
	20	10369.7
	30	10372.0
	40	10373.3
	0950	10372.3
	1000	10373.8 (Course Change)
	10	10404.8
	20	10406.3
	1030	10405.4

Entering Port — Course & Speed erratic

	1520	10369.1

Final reading in port

FORM [illegible]
JULY 1967

0 = ZERO | Ø = ALPHA O | 1 = ONE | I = ALPHA I | 2 = TWO | Z = ALPHA Z | / = SLA