

**NATIONAL INSTITUTE OF OCEANOGRAPHY**

**WORMLEY, GODALMING, SURREY**

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**Definition of Matthews Area  
Boundary Lines**

**FOR USE ON A COMPUTER**

**by**

**RUTH A. SHERWOOD**

**N.I.O. INTERNAL REPORT No. N. 26**

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**AUGUST 1972**

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## Introduction

On board R.R.S. Discovery in 1970 the correction of depths obtained by means of a precision echo sounder were automated. Precision echo sounders work on a pre-set sounding velocity, which in this case is 800 fms/sec. A pulse is sent out, and the time for it to reach the ocean bed and return is measured. From this information the depth is determined, and recorded on a continuous chart. However the velocity of sound in water depends on temperature, salinity and pressure. Therefore the nominal depths obtained from a standard sounding velocity have to be corrected. These corrections are obtained from Matthews Area Tables, published in 1939 (see "Velocity of Sound in Pure Water and Sea Water" by Matthews 1939 for more details). In 1970 curves were fitted to the figures in the tables, and two computer programs written to enable the corrections to be calculated automatically on the computer. The results are shown in N.I.O. Internal Report No. N22.

As the ship passed from one Matthews Area to another, this fact was manually entered into the computer. However, it was felt desirable to try to make the selection of area equation automatic, and the method of doing this is discussed in this report.

The programs and data were implemented on the ship in 1972.

Method

In 1939 Matthews published tables giving lists of corrections to be applied to depths obtained from echo sounders. The tables covered the oceans of the world, dividing them into 52 areas. For consideration, a section was taken in the Atlantic and Mediterranean from 10°N to 70°N and 5°E to 65°W. This section includes Matthews Areas 1-20 in the Atlantic and 48-49 in the Mediterranean.

The first stage was to obtain as accurately as possible where the Matthews Area boundaries were situated. The scale of the original contoured map was too small for consideration. In everyday practice, sections, which are 6° in latitude by 10°-20° longitude, are enlarged to a scale of 1:1 million plotting charts. For the section under consideration about 50 plotting charts were used.

The data had to be represented in a form such that at a given latitude and longitude, the Matthews Area could be easily obtained. For this purpose the section was divided into 1° squares. The shape of the lines forming the boundaries of each Matthews Area was such that over a large distance equations could not easily be fitted. However, within a one degree square, a straight line approximation to the boundary was, in most cases, sufficiently accurate. The points of intersection of these straight lines with the boundaries of the squares were taken; if no boundary occurred in a given square then the Matthews Area number was taken instead. The data were written onto a grid (see Fig. 1).

		W				
31	30	29	28	27	26	
						56
	7 30°40'W on 56N 55°53'N on 30W	7 55°58'N on 30W	7 55°38'N on 29°W	7	7	
	6	6	6	55°7'N on 28°W 6		
				7 27°49'W on 55°N 29°11'W on 54°N	7	55 N
	6	6	6	6		
				27°41'W on 54°N 27°54'W on 53°N 6                      7	7	54 53

FIG. 1.

Only one line intersected the 1° squares in most intersection cases, but in some 50 cases two lines cut the squares. Each line was treated in the same way.

The data considered totalled 4200 1° squares.

In this way the data can be drawn onto a grid. If a computer is not available there is sufficient information to easily determine the required Matthews Area by hand.

The data, is now in a form such that it can be economically transferred onto the computer, by means of data files, and stored for permanent reference.

## Computer Method

Two data files were constructed to hold the data on the computer.

1. The region considered, contains 4200 1° squares. The first data file contains information about one 1° square. In the sections considered the first record in the file contains information about the square at 10°N 5°E, and the square position is calculated from the S.E. corner.

Using the formula:

$$60 \times \text{Absolute value (Long. -5) + (Lat. -9)} \quad (\text{a})$$

the correct record can be accessed. However if the total region considered, in this case 10-70°N and 5°E-65°W, is changed, the formula would have to be modified accordingly.

A generalised formula would be:

$$A \times \text{Absolute value (Long. -B) + (Lat. -C)} \quad (\text{b})$$

where

A is the range of latitude.

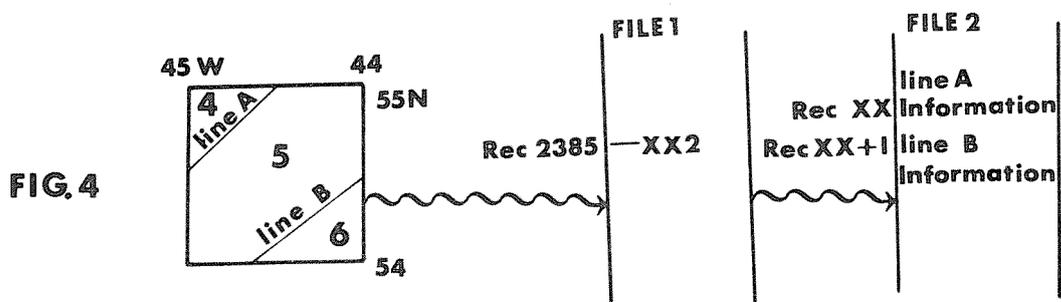
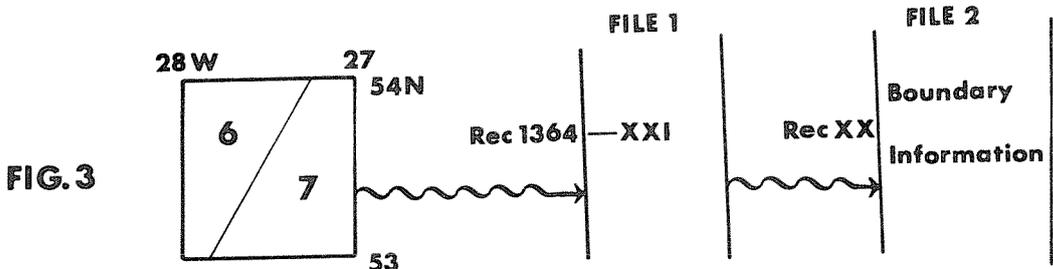
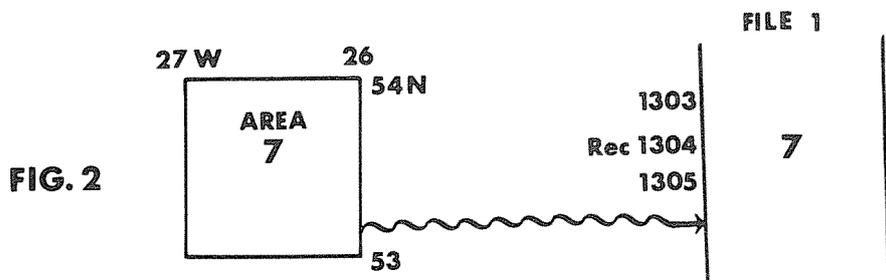
B is the most easterly longitude used.

C is the most southerly latitude used.

Using formula (b) any regions in the northern hemisphere can be used. It is not necessary for the area to be 60° x 70°. Smaller areas can fit onto the existing data files, but larger areas would require more disk space on the computer. 60° x 70° is a convenient size, such that in any one cruise no more than two such areas should be required.

### 2. Record Structure. File 1

As has been said, the first data file contains 4200 records. For each 1° square there is a unique record on the file. If the 1° square contains no boundary lines, the file record contains the Matthews Area. (see Fig. 2) In this case the record is positive. If the 1° square contains a boundary line the file record is negative. (see Fig. 3) It contains the record number to be accessed in the second file (see below) and the number of records to be accessed. That is, if the square was crossed by two boundary lines, two records would have to be read. (see Fig. 4)



Theoretically any number of lines can cross a square, but in practice three is the largest number that do so. This occurs in areas where the water properties are changing rapidly spatially i.e. in the Atlantic off the coast of America in the Gulf Stream.

File 2

The second file contains information about the boundary lines of the Matthews Areas. The number of records in this file depends on the number of boundary lines crossing  $1^\circ$  squares in the section considered. In this case it is 952 records. The structure of the file is as follows. In each record there are eleven integers.

1. When a straight line cuts a square, the area between

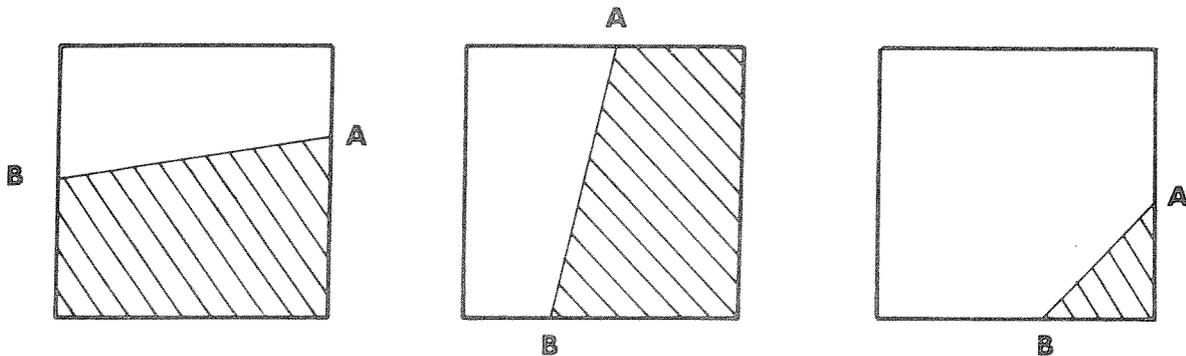
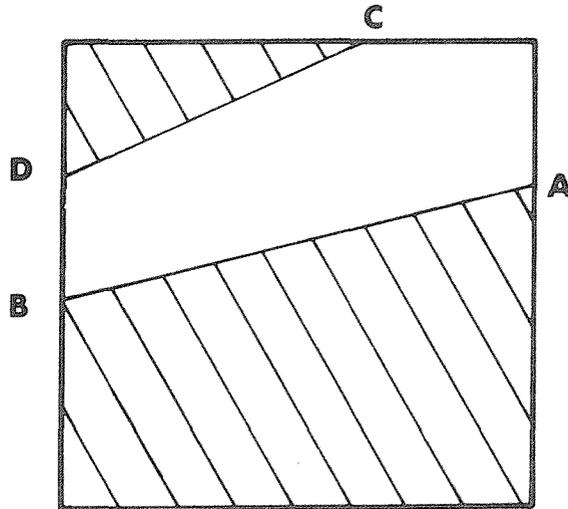


FIG.5.

the lines and the sides of the square on one side of it form either a four sided or three sided figure (see Fig. 5 shaded areas) (obviously with the three sided figure, the other side of the line forms a five sided figure but this is never considered).

The first integer is the number of sides of the figure so formed.

2. and 3. The latitude in degrees and minutes of point A.
4. and 5. The longitude in deg. and minutes of point A.
6. and 7. The latitude in degrees and minutes of point B.
8. and 9. The longitude in deg. and minutes of point B.
10. The Matthews Area within the figure considered.
11. The Matthews Area outside the area considered.



**FIG.6.**

If two lines cut a  $1^\circ$  square, two records in the second file are accessed.

The first record gives the information, for points A and B (see Fig. 6) and the second record, for points C and D. By default if the point under consideration is in neither of the shaded areas, it must be in the third unshaded area.

#### Correction Errors

In approximately 5% of the  $1^\circ$  squares the Matthews Boundary line varied from the straight line approximation by more than 5 miles. (Taking a straight line from the line approximation to the curve at the point of greatest divergence), (see Fig. 7). The actual errors were from 5-25 miles. These cases were dealt with in two ways.

(a) Errors from 5-10 miles

Line AB was moved to a new position CD so that the error became divided into two a and b both less than 5 miles giving a straight line approximation of sufficient accuracy. (see Fig. 8)

(b) Errors greater than 10 miles

Instead of considering the area under line AB, the area under lines AD and BC were considered, as though they were two intersection lines. By doing this the error is reduced considerably. (see Fig. 9 shaded areas)

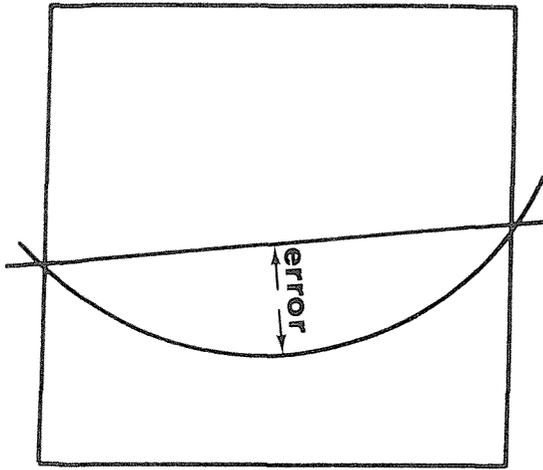


FIG. 7.

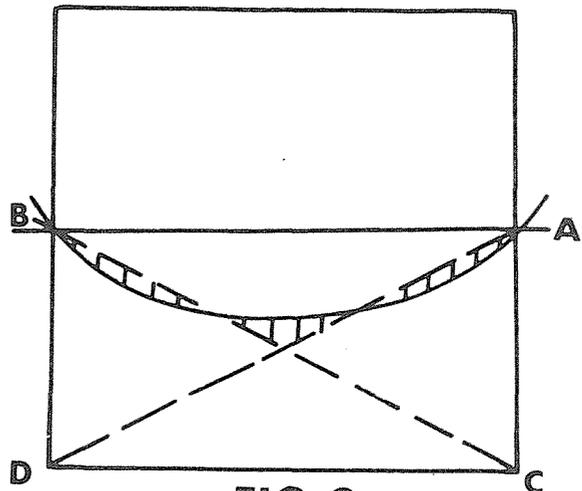


FIG. 9.

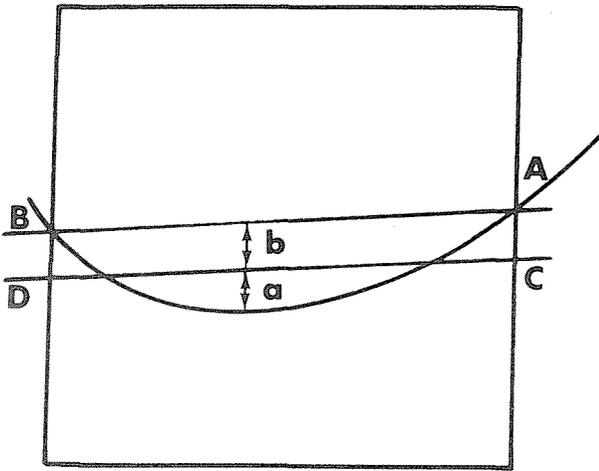


FIG. 8.

With the above two data files defined and filled with the data obtained from the plotting sheets, a computer program was written to calculate the correct area and correction. Navigation as to the current position of the ship is already stored on the computer so that the latitude and longitude can be found for any given time. Having obtained the position, the two files are then accessed to find the relevant Matthews Area. Knowing the area, the depth can be corrected from the known equations (see Internal Report N22). The results are printed out to a typewriter and onto a disk file for permanent storage.

Around coastlines or on the continental shelf, no Matthews Corrections have been made. If corrections are required in these areas or if for some reason previously corrected depths are deemed to be in the wrong areas, an override program is available. This allows the user to alter records corrected on disk but destroys the original correction. Hopefully it will be used with discretion.

## Conclusion

Matthews area boundary lines can be defined by dividing the areas into 1° squares and approximating the curved boundary lines to straight lines within these squares. This has been done for a 60 x 70 degree area in the North Atlantic. With suitable navigation data a depth entered into the computer together with day and time can be corrected and a true depth plotted against position. It would be an easy job to extend these results to the Matthews Areas in other oceans.

## References

Tables of the Velocity of Sound in Pure Water and Sea Water - D. J. Matthews  
EIC(1939).

N.I.O. Internal Report N22, Computer Approximations for Matthews Areas.

## Appendix

The following two sets of data, contain the Matthews Areas and boundary line information as stored on the computer.

1) The first set of data contains 180 one degree squares per page. The latitude and longitude is the position of the South East corner of the square. Longitude is +ve if East, -ve if West.

The area given if positive is the Matthews Area used for that one degree square. A zero area refers to either land or shallow water such as the continental shelf (where an area is not defined). If the number written is negative, the last digit is the number of boundary lines crossing the square, that is the number of records to be read on the second set of tables. The rest of the number gives the record to be read in the second table. For example for latitude 43 longitude -42 under Area is printed -6002. This means read two records in the second table, starting at record 600.

2) The second set of data contains the points of intersection on one degree squares of the boundary lines. The following is an explanation of the numbers listed.

S is the figure formed by the intersection of the boundary line (see Fig. 5), and is either a 3 or 4 sided figure. Then follow two sets of latitude and longitude in degrees and minutes. These are the points of intersection of the boundary line with the one degree square considered.

Area In is the Matthews Area inside the 3 or 4 sided figure, and Area Out is the area outside. The record number is that referred to in the first data set.

LAT.	LONG.	AREA
10	5	0
11	5	0
12	5	0
13	5	0
14	5	0
15	5	0
16	5	0
17	5	0
18	5	0
19	5	0
20	5	0
21	5	0
22	5	0
23	5	0
24	5	0
25	5	0
26	5	0
27	5	0
28	5	0
29	5	0
30	5	0
31	5	0
32	5	0
33	5	0
34	5	0
35	5	0
36	5	4
37	5	4
38	5	4
39	5	4
40	5	4
41	5	4
42	5	4
43	5	4
44	5	0
45	5	0
46	5	0
47	5	0
48	5	0
49	5	0
50	5	0
51	5	0
52	5	0
53	5	3
54	5	3
55	5	3
56	5	3
57	5	3
58	5	3
59	5	3
60	5	3
61	5	3
62	5	3
63	5	3
64	5	-1
65	5	-1
66	5	-2
67	5	-2
68	5	3
69	5	3

LAT.	LONG.	AREA
10	4	0
11	4	0
12	4	0
13	4	0
14	4	0
15	4	0
16	4	0
17	4	0
18	4	0
19	4	0
20	4	0
21	4	0
22	4	0
23	4	0
24	4	0
25	4	0
26	4	0
27	4	0
28	4	0
29	4	0
30	4	0
31	4	0
32	4	0
33	4	0
34	4	0
35	4	0
36	4	4
37	4	4
38	4	4
39	4	4
40	4	4
41	4	4
42	4	4
43	4	4
44	4	0
45	4	0
46	4	0
47	4	0
48	4	0
49	4	0
50	4	0
51	4	0
52	4	0
53	4	3
54	4	3
55	4	3
56	4	3
57	4	3
58	4	3
59	4	3
60	4	3
61	4	3
62	4	3
63	4	3
64	4	-3
65	4	-3
66	4	-4
67	4	-4
68	4	3
69	4	3

LAT.	LONG.	AREA
10	3	0
11	3	0
12	3	0
13	3	0
14	3	0
15	3	0
16	3	0
17	3	0
18	3	0
19	3	0
20	3	0
21	3	0
22	3	0
23	3	0
24	3	0
25	3	0
26	3	0
27	3	0
28	3	0
29	3	0
30	3	0
31	3	0
32	3	0
33	3	0
34	3	0
35	3	0
36	3	4
37	3	4
38	3	4
39	3	4
40	3	4
41	3	4
42	3	4
43	3	4
44	3	0
45	3	0
46	3	0
47	3	0
48	3	0
49	3	0
50	3	0
51	3	0
52	3	0
53	3	3
54	3	3
55	3	3
56	3	3
57	3	3
58	3	3
59	3	3
60	3	3
61	3	3
62	3	3
63	3	3
64	3	-5
65	3	-5
66	3	-6
67	3	-6
68	3	3
69	3	3

LAT.	LONG.	AREA
10	2	0
11	2	0
12	2	0
13	2	0
14	2	0
15	2	0
16	2	0
17	2	0
18	2	0
19	2	0
20	2	0
21	2	0
22	2	0
23	2	0
24	2	0
25	2	0
26	2	0
27	2	0
28	2	0
29	2	0
30	2	0
31	2	0
32	2	0
33	2	0
34	2	0
35	2	0
36	2	4
37	2	48
38	2	48
39	2	48
40	2	48
41	2	0
42	2	0
43	2	0
44	2	0
45	2	0
46	2	0
47	2	0
48	2	0
49	2	0
50	2	0
51	2	0
52	2	3
53	2	3
54	2	3
55	2	3
56	2	3
57	2	3
58	2	3
59	2	3
60	2	3
61	2	3
62	2	3
63	2	-71
64	2	-81
65	2	4
66	2	4
67	2	-91
68	2	-101
69	2	3

LAT.	LONG.	AREA
10	1	0
11	1	0
12	1	0
13	1	0
14	1	0
15	1	0
16	1	0
17	1	0
18	1	0
19	1	0
20	1	0
21	1	0
22	1	0
23	1	0
24	1	0
25	1	0
26	1	0
27	1	0
28	1	0
29	1	0
30	1	0
31	1	0
32	1	0
33	1	0
34	1	0
35	1	0
36	1	4
37	1	48
38	1	48
39	1	48
40	1	0
41	1	0
42	1	0
43	1	0
44	1	0
45	1	0
46	1	0
47	1	0
48	1	0
49	1	0
50	1	0
51	1	0
52	1	0
53	1	3
54	1	3
55	1	3
56	1	3
57	1	3
58	1	3
59	1	3
60	1	3
61	1	3
62	1	3
63	1	-111
64	1	4
65	1	4
66	1	4
67	1	4
68	1	-121
69	1	3

LAT.	LONG.	AREA
10	0	0
11	0	0
12	0	0
13	0	0
14	0	0
15	0	0
16	0	0
17	0	0
18	0	0
19	0	0
20	0	0
21	0	0
22	0	0
23	0	0
24	0	0
25	0	0
26	0	0
27	0	0
28	0	0
29	0	0
30	0	0
31	0	0
32	0	0
33	0	0
34	0	0
35	0	4
36	0	48
37	0	48
38	0	48
39	0	0
40	0	0
41	0	0
42	0	0
43	0	0
44	0	0
45	0	0
46	0	0
47	0	0
48	0	0
49	0	0
50	0	0
51	0	0
52	0	0
53	0	0
54	0	0
55	0	3
56	0	3
57	0	3
58	0	3
59	0	3
60	0	3
61	0	3
62	0	3
63	0	-131
64	0	4
65	0	4
66	0	4
67	0	4
68	0	-141
69	0	3

LAT.	LONG.	AREA
10	-1	0
11	-1	0
12	-1	0
13	-1	0
14	-1	0
15	-1	0
16	-1	0
17	-1	0
18	-1	0
19	-1	0
20	-1	0
21	-1	0
22	-1	0
23	-1	0
24	-1	0
25	-1	0
26	-1	0
27	-1	0
28	-1	0
29	-1	0
30	-1	0
31	-1	0
32	-1	0
33	-1	0
34	-1	0
35	-1	48
36	-1	48
37	-1	48
38	-1	0
39	-1	0
40	-1	0
41	-1	0
42	-1	0
43	-1	0
44	-1	0
45	-1	0
46	-1	0
47	-1	0
48	-1	0
49	-1	0
50	-1	0
51	-1	0
52	-1	0
53	-1	0
54	-1	0
55	-1	0
56	-1	3
57	-1	3
58	-1	3
59	-1	3
60	-1	3
61	-1	3
62	-1	-151
63	-1	-162
64	-1	-9412
65	-1	-191
66	-1	4
67	-1	4
68	-1	-201
69	-1	3

LAT.	LONG.	AREA
10	-2	0
11	-2	0
12	-2	0
13	-2	0
14	-2	0
15	-2	0
16	-2	0
17	-2	0
18	-2	0
19	-2	0
20	-2	0
21	-2	0
22	-2	0
23	-2	0
24	-2	0
25	-2	0
26	-2	0
27	-2	0
28	-2	0
29	-2	0
30	-2	0
31	-2	0
32	-2	0
33	-2	0
34	-2	0
35	-2	48
36	-2	48
37	-2	0
38	-2	0
39	-2	0
40	-2	0
41	-2	0
42	-2	0
43	-2	0
44	-2	0
45	-2	0
46	-2	0
47	-2	0
48	-2	0
49	-2	0
50	-2	0
51	-2	0
52	-2	0
53	-2	0
54	-2	0
55	-2	0
56	-2	0
57	-2	0
58	-2	3
59	-2	3
60	-2	3
61	-2	3
62	-2	-211
63	-2	-222
64	-2	-9392
65	-2	-252
66	-2	4
67	-2	4
68	-2	-271
69	-2	-281

LAT.	LONG.	AREA
10	-3	0
11	-3	0
12	-3	0
13	-3	0
14	-3	0
15	-3	0
16	-3	0
17	-3	0
18	-3	0
19	-3	0
20	-3	0
21	-3	0
22	-3	0
23	-3	0
24	-3	0
25	-3	0
26	-3	0
27	-3	0
28	-3	0
29	-3	0
30	-3	0
31	-3	0
32	-3	0
33	-3	0
34	-3	0
35	-3	-291
36	-3	-301
37	-3	0
38	-3	0
39	-3	0
40	-3	0
41	-3	0
42	-3	0
43	-3	0
44	-3	0
45	-3	0
46	-3	0
47	-3	0
48	-3	0
49	-3	0
50	-3	0
51	-3	0
52	-3	0
53	-3	0
54	-3	0
55	-3	0
56	-3	0
57	-3	0
58	-3	0
59	-3	3
60	-3	3
61	-3	3
62	-3	-312
63	-3	-332
64	-3	2
65	-3	-352
66	-3	-371
67	-3	4
68	-3	4
69	-3	-382

LAT.	LONG.	AREA
10	-4	0
11	-4	0
12	-4	0
13	-4	0
14	-4	0
15	-4	0
16	-4	0
17	-4	0
18	-4	0
19	-4	0
20	-4	0
21	-4	0
22	-4	0
23	-4	0
24	-4	0
25	-4	0
26	-4	0
27	-4	0
28	-4	0
29	-4	0
30	-4	0
31	-4	0
32	-4	0
33	-4	0
34	-4	0
35	-4	47
36	-4	47
37	-4	0
38	-4	0
39	-4	0
40	-4	0
41	-4	0
42	-4	0
43	-4	0
44	-4	0
45	-4	12
46	-4	12
47	-4	0
48	-4	0
49	-4	0
50	-4	0
51	-4	0
52	-4	0
53	-4	0
54	-4	0
55	-4	0
56	-4	0
57	-4	0
58	-4	0
59	-4	0
60	-4	0
61	-4	-401
62	-4	-413
63	-4	-441
64	-4	2
65	-4	-451
66	-4	-662
67	-4	4
68	-4	-681
69	-4	-692

LAT.	LONG.	AREA
10	-5	0
11	-5	0
12	-5	0
13	-5	0
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LAT.	LONG.	AREA	LAT.	LONG.	AREA	LAT.	LONG.	AREA
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LAT.	LONG.	AREA
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LAT.	LONG.	AREA
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LAT.	LONG.	AREA
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LAT.	LONG.	AREA
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LAT.	LONG.	AREA
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41	-37	-4921
42	-37	-4932
43	-37	-4951
44	-37	10
45	-37	10
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47	-37	-4972
48	-37	-4991
49	-37	8
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51	-37	-5011
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54	-37	6
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62	-37	6
63	-37	6
64	-37	-5051
65	-37	1
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LAT.	LONG.	AREA
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12	-38	19
13	-38	-5061
14	-38	11
15	-38	11
16	-38	11
17	-38	11
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30	-38	13
31	-38	13
32	-38	-5091
33	-38	12
34	-38	12
35	-38	-5101
36	-38	11
37	-38	11
38	-38	11
39	-38	11
40	-38	11
41	-38	-5112
42	-38	-5131
43	-38	-5141
44	-38	-5151
45	-38	-5161
46	-38	10
47	-38	-5171
48	-38	-5181
49	-38	8
50	-38	-5191
51	-38	-5201
52	-38	6
53	-38	6
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61	-38	6
62	-38	6
63	-38	-5211
64	-38	-5221
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LAT.	LONG.	AREA
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12	-39	19
13	-39	-5231
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15	-39	11
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17	-39	11
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19	-39	-5241
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21	-39	12
22	-39	-5251
23	-39	13
24	-39	13
25	-39	13
26	-39	13
27	-39	13
28	-39	13
29	-39	13
30	-39	13
31	-39	13
32	-39	-5261
33	-39	12
34	-39	-5271
35	-39	-5281
36	-39	11
37	-39	11
38	-39	11
39	-39	11
40	-39	-5291
41	-39	-5301
42	-39	9
43	-39	9
44	-39	9
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47	-39	-5331
48	-39	-5341
49	-39	-5351
50	-39	-5361
51	-39	-5371
52	-39	6
53	-39	6
54	-39	6
55	-39	6
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57	-39	6
58	-39	-5381
59	-39	-5041
60	-39	-5391
61	-39	6
62	-39	6
63	-39	-5401
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LAT.	LONG.	AREA
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12	-40	-5411
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14	-40	11
15	-40	11
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30	-40	13
31	-40	13
32	-40	-5451
33	-40	12
34	-40	-5461
35	-40	11
36	-40	11
37	-40	11
38	-40	-5471
39	-40	-5481
40	-40	-5491
41	-40	9
42	-40	9
43	-40	9
44	-40	9
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47	-40	-5522
48	-40	-5541
49	-40	-5552
50	-40	-5571
51	-40	-5581
52	-40	6
53	-40	6
54	-40	6
55	-40	6
56	-40	6
57	-40	-5591
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59	-40	5
60	-40	-5611
61	-40	-5621
62	-40	-5631
63	-40	-5641
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67	-40	0
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LAT.	LONG.	AREA
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12	-41	-5651
13	-41	11
14	-41	11
15	-41	11
16	-41	11
17	-41	11
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29	-41	13
30	-41	13
31	-41	-5691
32	-41	-5111
33	-41	12
34	-41	-5701
35	-41	11
36	-41	11
37	-41	-5711
38	-41	12
39	-41	-5721
40	-41	-5731
41	-41	9
42	-41	9
43	-41	-5741
44	-41	-5751
45	-41	-5762
46	-41	-5782
47	-41	-5801
48	-41	-5811
49	-41	-9492
50	-41	-5831
51	-41	-5841
52	-41	6
53	-41	6
54	-41	6
55	-41	6
56	-41	-5851
57	-41	-5861
58	-41	5
59	-41	5
60	-41	5
61	-41	-9432
62	-41	-5881
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66	-41	0
67	-41	0
68	-41	0
69	-41	0

LAT.	LONG.	AREA
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12	-42	-5891
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14	-42	11
15	-42	11
16	-42	11
17	-42	11
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29	-42	13
30	-42	13
31	-42	-5931
32	-42	12
33	-42	12
34	-42	-5941
35	-42	11
36	-42	-5951
37	-42	-5961
38	-42	12
39	-42	-5971
40	-42	-5981
41	-42	9
42	-42	-521
43	-42	-6002
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45	-42	-6031
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53	-42	6
54	-42	6
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63	-42	0
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LAT.	LONG.	AREA
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12	-43	-6131
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14	-43	11
15	-43	11
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17	-43	11
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21	-43	12
22	-43	12
23	-43	-6151
24	-43	-6161
25	-43	13
26	-43	13
27	-43	13
28	-43	13
29	-43	13
30	-43	13
31	-43	-6171
32	-43	12
33	-43	12
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36	-43	-6201
37	-43	12
38	-43	12
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45	-43	-6271
46	-43	-6281
47	-43	-6291
48	-43	-6301
49	-43	-6312
50	-43	-6332
51	-43	6
52	-43	6
53	-43	6
54	-43	-6351
55	-43	-6362
56	-43	-6381
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LAT.	LONG.	AREA
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46	-44	6
47	-44	-6491
48	-44	-6501
49	-44	-6512
50	-44	-9472
51	-44	-6551
52	-44	-6561
53	-44	-6571
54	-44	-6582
55	-44	-6601
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LAT.	LONG.	AREA
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38	-45	12
39	-45	-6661
40	-45	-6671
41	-45	-6682
42	-45	-6701
43	-45	-6711
44	-45	6
45	-45	6
46	-45	-531
47	-45	-6721
48	-45	-6731
49	-45	-6741
50	-45	-6751
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52	-45	-6781
53	-45	-6791
54	-45	-6801
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LAT.	LONG.	AREA
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15	-46	11
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17	-46	11
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23	-46	12
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25	-46	-6831
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31	-46	-6841
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33	-46	12
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37	-46	12
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43	-46	-6881
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67	-46	0
68	-46	0
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LAT.	LONG.	AREA
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12	-47	-6961
13	-47	-6971
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15	-47	11
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25	-47	-6991
26	-47	-541
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37	-47	12
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LAT.	LONG.	AREA
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17	-48	11
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25	-48	12
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27	-48	13
28	-48	13
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31	-48	13
32	-48	-7121
33	-48	-7131
34	-48	12
35	-48	12
36	-48	12
37	-48	12
38	-48	12
39	-48	-7142
40	-48	-7162
41	-48	-7181
42	-48	-7191
43	-48	6
44	-48	-7201
45	-48	-7212
46	-48	-7231
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LAT.	LONG.	AREA
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LAT.	LONG.	AREA
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17	-50	11
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37	-50	12
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39	-50	-7442
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42	-50	-7492
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LAT.	LONG.	AREA
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36	-51	-7551
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39	-51	-7562
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41	-51	-7601
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LAT.	LONG.	AREA
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34	-52	13
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36	-52	-7681
37	-52	-571
38	-52	12
39	-52	-7691
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41	-52	-7722
42	-52	-7741
43	-52	-7753
44	-52	-7781
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LAT.	LONG.	AREA
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12	-53	19
13	-53	-7791
14	-53	11
15	-53	11
16	-53	11
17	-53	-581
18	-53	-7801
19	-53	12
20	-53	12
21	-53	12
22	-53	12
23	-53	12
24	-53	12
25	-53	12
26	-53	-7811
27	-53	13
28	-53	13
29	-53	13
30	-53	13
31	-53	13
32	-53	13
33	-53	13
34	-53	13
35	-53	13
36	-53	13
37	-53	-7821
38	-53	-7831
39	-53	12
40	-53	-7841
41	-53	-7852
42	-53	-7871
43	-53	-7882
44	-53	-7902
45	-53	4
46	-53	4
47	-53	0
48	-53	0
49	-53	0
50	-53	4
51	-53	4
52	-53	4
53	-53	4
54	-53	4
55	-53	4
56	-53	4
57	-53	4
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61	-53	4
62	-53	4
63	-53	4
64	-53	4
65	-53	4
66	-53	0
67	-53	0
68	-53	0
69	-53	0

LAT.	LONG.	AREA
10	-54	19
11	-54	19
12	-54	19
13	-54	-7921
14	-54	11
15	-54	11
16	-54	11
17	-54	-7931
18	-54	12
19	-54	12
20	-54	12
21	-54	12
22	-54	12
23	-54	12
24	-54	12
25	-54	-7941
26	-54	-7951
27	-54	13
28	-54	13
29	-54	13
30	-54	13
31	-54	13
32	-54	13
33	-54	13
34	-54	13
35	-54	13
36	-54	13
37	-54	13
38	-54	-7961
39	-54	-7971
40	-54	-7981
41	-54	-7992
42	-54	-8012
43	-54	-8032
44	-54	-8051
45	-54	-8061
46	-54	4
47	-54	0
48	-54	0
49	-54	0
50	-54	4
51	-54	4
52	-54	4
53	-54	4
54	-54	4
55	-54	4
56	-54	4
57	-54	4
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59	-54	4
60	-54	4
61	-54	4
62	-54	4
63	-54	4
64	-54	4
65	-54	4
66	-54	4
67	-54	-8071
68	-54	1
69	-54	1

LAT.	LONG.	AREA
10	-55	19
11	-55	19
12	-55	-8081
13	-55	11
14	-55	11
15	-55	11
16	-55	-8091
17	-55	-8101
18	-55	12
19	-55	12
20	-55	12
21	-55	12
22	-55	12
23	-55	12
24	-55	12
25	-55	-8111
26	-55	13
27	-55	13
28	-55	13
29	-55	13
30	-55	13
31	-55	13
32	-55	13
33	-55	13
34	-55	13
35	-55	13
36	-55	13
37	-55	13
38	-55	13
39	-55	-8121
40	-55	-8131
41	-55	-8141
42	-55	-8151
43	-55	-8162
44	-55	-8183
45	-55	-591
46	-55	4
47	-55	0
48	-55	0
49	-55	0
50	-55	0
51	-55	0
52	-55	0
53	-55	0
54	-55	4
55	-55	4
56	-55	4
57	-55	4
58	-55	4
59	-55	4
60	-55	4
61	-55	4
62	-55	4
63	-55	4
64	-55	4
65	-55	4
66	-55	4
67	-55	-8211
68	-55	1
69	-55	1

LAT.	LONG.	AREA
10	-56	19
11	-56	19
12	-56	-8221
13	-56	11
14	-56	11
15	-56	11
16	-56	-8231
17	-56	12
18	-56	12
19	-56	12
20	-56	12
21	-56	12
22	-56	12
23	-56	12
24	-56	12
25	-56	-8241
26	-56	13
27	-56	13
28	-56	13
29	-56	13
30	-56	13
31	-56	13
32	-56	13
33	-56	13
34	-56	13
35	-56	13
36	-56	13
37	-56	13
38	-56	13
39	-56	13
40	-56	-8251
41	-56	-8262
42	-56	-8282
43	-56	-8302
44	-56	-8323
45	-56	4
46	-56	4
47	-56	4
48	-56	0
49	-56	0
50	-56	0
51	-56	0
52	-56	0
53	-56	0
54	-56	4
55	-56	4
56	-56	4
57	-56	4
58	-56	4
59	-56	4
60	-56	4
61	-56	4
62	-56	4
63	-56	4
64	-56	4
65	-56	4
66	-56	4
67	-56	-8351
68	-56	1
69	-56	1

LAT.	LONG.	AREA
10	-57	19
11	-57	-8361
12	-57	-8371
13	-57	11
14	-57	11
15	-57	-8381
16	-57	-8391
17	-57	12
18	-57	12
19	-57	12
20	-57	12
21	-57	12
22	-57	12
23	-57	12
24	-57	-8401
25	-57	-8411
26	-57	13
27	-57	13
28	-57	13
29	-57	13
30	-57	13
31	-57	13
32	-57	13
33	-57	13
34	-57	13
35	-57	13
36	-57	13
37	-57	13
38	-57	13
39	-57	13
40	-57	13
41	-57	-8422
42	-57	-8442
43	-57	-8463
44	-57	-8492
45	-57	4
46	-57	4
47	-57	4
48	-57	0
49	-57	0
50	-57	0
51	-57	0
52	-57	0
53	-57	0
54	-57	0
55	-57	4
56	-57	4
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58	-57	4
59	-57	4
60	-57	4
61	-57	4
62	-57	4
63	-57	4
64	-57	4
65	-57	4
66	-57	4
67	-57	-8511
68	-57	1
69	-57	1

LAT.	LONG.	AREA
10	-58	19
11	-58	-8521
12	-58	11
13	-58	11
14	-58	-8531
15	-58	12
16	-58	12
17	-58	12
18	-58	12
19	-58	12
20	-58	12
21	-58	12
22	-58	12
23	-58	12
24	-58	-8541
25	-58	13
26	-58	13
27	-58	13
28	-58	13
29	-58	13
30	-58	13
31	-58	13
32	-58	13
33	-58	13
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35	-58	13
36	-58	13
37	-58	13
38	-58	13
39	-58	13
40	-58	13
41	-58	-8552
42	-58	-8572
43	-58	-8592
44	-58	-8611
45	-58	4
46	-58	4
47	-58	4
48	-58	0
49	-58	0
50	-58	0
51	-58	0
52	-58	0
53	-58	0
54	-58	0
55	-58	4
56	-58	4
57	-58	4
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59	-58	4
60	-58	4
61	-58	4
62	-58	4
63	-58	4
64	-58	4
65	-58	4
66	-58	-8621
67	-58	1
68	-58	1
69	-58	1

LAT.	LONG.	AREA
10	-59	19
11	-59	-8631
12	-59	11
13	-59	-8641
14	-59	-8651
15	-59	12
16	-59	12
17	-59	12
18	-59	12
19	-59	12
20	-59	12
21	-59	12
22	-59	12
23	-59	12
24	-59	-8661
25	-59	13
26	-59	13
27	-59	13
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35	-59	13
36	-59	13
37	-59	13
38	-59	13
39	-59	13
40	-59	-8671
41	-59	-8683
42	-59	-8712
43	-59	-8732
44	-59	-8751
45	-59	4
46	-59	4
47	-59	4
48	-59	0
49	-59	0
50	-59	0
51	-59	0
52	-59	0
53	-59	0
54	-59	0
55	-59	0
56	-59	4
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60	-59	4
61	-59	4
62	-59	4
63	-59	4
64	-59	4
65	-59	4
66	-59	-8761
67	-59	1
68	-59	1
69	-59	1

LAT.	LONG.	AREA
10	-60	19
11	-60	-8771
12	-60	-8781
13	-60	-8791
14	-60	12
15	-60	12
16	-60	12
17	-60	12
18	-60	12
19	-60	12
20	-60	12
21	-60	12
22	-60	12
23	-60	-8801
24	-60	13
25	-60	13
26	-60	13
27	-60	13
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29	-60	13
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31	-60	13
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33	-60	13
34	-60	13
35	-60	13
36	-60	13
37	-60	13
38	-60	13
39	-60	13
40	-60	-8812
41	-60	-8832
42	-60	-8852
43	-60	-8872
44	-60	4
45	-60	0
46	-60	0
47	-60	0
48	-60	0
49	-60	0
50	-60	0
51	-60	0
52	-60	0
53	-60	0
54	-60	0
55	-60	0
56	-60	0
57	-60	4
58	-60	4
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61	-60	4
62	-60	4
63	-60	4
64	-60	4
65	-60	4
66	-60	-8891
67	-60	1
68	-60	1
69	-60	1

LAT.	LONG.	AREA
10	-61	0
11	-61	-8902
12	-61	-8921
13	-61	-8931
14	-61	-8941
15	-61	-8951
16	-61	-8961
17	-61	12
18	-61	12
19	-61	12
20	-61	12
21	-61	12
22	-61	-601
23	-61	-611
24	-61	13
25	-61	13
26	-61	13
27	-61	13
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35	-61	13
36	-61	13
37	-61	13
38	-61	13
39	-61	13
40	-61	-8972
41	-61	-8991
42	-61	-9002
43	-61	-9021
44	-61	4
45	-61	0
46	-61	0
47	-61	0
48	-61	0
49	-61	0
50	-61	0
51	-61	0
52	-61	0
53	-61	0
54	-61	0
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57	-61	0
58	-61	4
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61	-61	4
62	-61	4
63	-61	4
64	-61	4
65	-61	4
66	-61	-9031
67	-61	1
68	-61	1
69	-61	1

LAT.	LONG.	AREA
10	-62	0
11	-62	-9041
12	-62	-9051
13	-62	-9061
14	-62	-9071
15	-62	-9081
16	-62	16
17	-62	-9091
18	-62	-9101
19	-62	12
20	-62	12
21	-62	12
22	-62	-621
23	-62	13
24	-62	13
25	-62	13
26	-62	13
27	-62	13
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34	-62	13
35	-62	13
36	-62	13
37	-62	13
38	-62	13
39	-62	-9111
40	-62	-9122
41	-62	-9142
42	-62	-9161
43	-62	4
44	-62	4
45	-62	0
46	-62	0
47	-62	0
48	-62	0
49	-62	0
50	-62	0
51	-62	0
52	-62	0
53	-62	0
54	-62	0
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56	-62	0
57	-62	0
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59	-62	4
60	-62	4
61	-62	4
62	-62	4
63	-62	4
64	-62	4
65	-62	4
66	-62	0
67	-62	1
68	-62	1
69	-62	1

LAT.	LONG.	AREA
10	-63	17
11	-63	17
12	-63	17
13	-63	17
14	-63	17
15	-63	-9171
16	-63	-9181
17	-63	-9191
18	-63	-9201
19	-63	12
20	-63	12
21	-63	12
22	-63	-631
23	-63	13
24	-63	13
25	-63	13
26	-63	13
27	-63	13
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31	-63	13
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33	-63	13
34	-63	13
35	-63	13
36	-63	13
37	-63	13
38	-63	13
39	-63	-9212
40	-63	-9232
41	-63	-9252
42	-63	5
43	-63	5
44	-63	0
45	-63	0
46	-63	0
47	-63	0
48	-63	0
49	-63	0
50	-63	0
51	-63	0
52	-63	0
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57	-63	0
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59	-63	0
60	-63	4
61	-63	4
62	-63	4
63	-63	4
64	-63	4
65	-63	4
66	-63	0
67	-63	1
68	-63	1
69	-63	1

LAT.	LONG.	AREA
10	-64	17
11	-64	17
12	-64	17
13	-64	17
14	-64	17
15	-64	17
16	-64	17
17	-64	-9272
18	-64	-9291
19	-64	12
20	-64	12
21	-64	-9301
22	-64	-9311
23	-64	13
24	-64	13
25	-64	13
26	-64	13
27	-64	13
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29	-64	13
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31	-64	13
32	-64	13
33	-64	13
34	-64	13
35	-64	13
36	-64	13
37	-64	13
38	-64	-9321
39	-64	-9332
40	-64	-9351
41	-64	-9361
42	-64	5
43	-64	5
44	-64	0
45	-64	0
46	-64	0
47	-64	0
48	-64	0
49	-64	0
50	-64	0
51	-64	0
52	-64	0
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57	-64	0
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60	-64	0
61	-64	0
62	-64	0
63	-64	0
64	-64	4
65	-64	4
66	-64	0
67	-64	1
68	-64	1
69	-64	1

REC NO	S	LAT		LONG		LAT		LONG		AREA	
		DEG	MIN	DEG	MIN	DEG	MIN	DEG	MIN	IN	OUT
1	3	65	29	5	0	65	0	4	0	3	4
2	4	67	56	5	0	67	55	4	0	4	3
3	3	65	0	4	0	64	31	3	0	4	3
4	4	67	55	4	0	67	55	3	0	4	3
5	4	64	31	3	0	64	7	2	0	3	4
6	4	67	55	3	0	67	59	2	0	4	3
7	3	64	0	1	41	63	40	1	0	4	3
8	3	64	7	2	0	64	0	1	41	3	4
9	3	67	59	2	0	68	0	1	50	3	4
10	3	68	0	1	50	68	7	1	0	4	3
11	4	63	40	1	0	63	24	0	0	3	4
12	4	68	7	1	0	68	19	0	0	4	4
13	4	63	24	0	0	63	5	-1	0	3	4
14	4	68	19	0	0	68	36	-1	0	4	3
15	3	63	0	-1	-9	62	44	-2	0	4	3
16	3	63	5	-1	0	63	0	-1	-9	3	4
17	3	64	0	-1	-48	63	48	-2	0	3	4
18	4	65	0	-1	-45	64	0	-1	-48	4	3
19	3	65	0	-1	-45	65	13	-2	0	3	4
20	4	68	36	-1	0	68	51	-2	0	4	3
21	4	62	44	-2	0	62	24	-3	0	4	4
22	4	63	48	-2	0	63	10	-3	0	4	3
23	3	64	0	-2	-25	63	35	-3	0	2	3
24	4	65	0	-2	-40	64	0	-2	-25	3	2
25	3	65	0	-2	-40	65	14	-3	0	2	3
26	4	65	13	-2	0	65	54	-3	0	3	4
27	3	68	51	-2	0	69	0	-2	-43	3	4
28	3	69	0	-2	-43	69	3	-3	0	4	3
29	4	36	0	-3	-55	35	0	-3	-55	48	47
30	4	37	0	-3	-55	36	0	-3	-55	48	47
31	4	62	24	-3	0	62	4	-4	0	3	4
32	3	63	0	-3	-17	62	37	-4	0	3	4
33	3	63	10	-3	0	63	0	-3	-17	4	3
34	4	63	35	-3	0	63	4	-4	0	3	2
35	4	65	14	-3	0	65	49	-4	0	2	3
36	3	65	54	-3	0	66	0	-3	-11	4	3
37	3	66	0	-3	-11	66	20	-4	0	3	4
38	4	69	3	-3	0	69	8	-4	0	4	3
39	3	70	0	-3	-26	69	50	-4	0	2	3
40	3	62	0	-4	-11	61	44	-5	0	4	3
41	3	62	4	-4	0	62	0	-4	-11	3	4
42	4	62	37	-4	0	62	8	-5	0	4	3
43	3	63	0	-4	-7	62	36	-5	0	2	3
44	3	63	3	-4	0	63	0	-4	-7	3	2
45	3	65	49	-4	0	66	0	-4	-38	3	2
46	3	61	0	-9	-56	61	3	-10	0	7	2
47	4	59	36	-18	0	59	38	-19	0	8	7
48	3	41	0	-27	-59	40	59	-28	0	11	12
49	4	54	0	-27	-41	53	0	-27	-54	7	6
50	3	37	0	-34	-45	36	51	-35	0	11	12
51	3	32	10	-41	0	32	0	-41	-52	13	12
52	3	43	0	-42	-30	42	27	-43	0	8	9
53	3	47	0	-45	-59	46	59	-46	0	5	6
54	3	26	0	-47	-59	26	1	-48	0	12	13
55	3	47	6	-47	0	47	0	-47	-7	5	4
56	3	35	5	-51	0	36	0	-51	-54	12	13
57	3	37	0	-52	-59	37	1	-53	0	13	12
58	3	18	0	-53	-32	17	59	-54	0	12	11
59	3	45	2	-55	0	45	0	-55	-16	5	4
60	3	23	0	-61	-55	22	57	-62	0	13	12

REC NO	S	LAT		LONG		LAT		LONG		AREA	
		DEG	MIN	DEG	MIN	DEG	MIN	DEG	MIN	IN	OUT
61	3	23	29	-61	0	23	0	-61	-55	12	13
62	4	22	57	-62	0	22	27	-63	0	12	13
63	4	22	27	-63	0	22	1	-64	0	12	13
64	0	0	0	0	0	0	0	0	0	0	0
65	0	0	0	0	0	0	0	0	0	0	0
66	3	66	0	-4	-38	66	12	-5	0	2	3
67	4	66	20	-4	0	66	59	-5	0	3	4
68	3	69	0	-4	-57	68	59	-5	0	3	4
69	3	69	8	-4	0	69	0	-4	-57	4	3
70	4	69	50	-4	0	69	28	-5	0	3	2
71	4	61	44	-5	0	61	26	-6	0	3	4
72	3	62	0	-5	-19	61	47	-6	0	3	4
73	3	62	8	-5	0	62	0	-5	-19	4	3
74	4	62	36	-5	0	62	13	-6	0	3	2
75	4	66	12	-5	0	66	57	-6	0	2	3
76	3	66	59	-5	0	67	0	-5	-1	4	3
77	4	68	0	-5	-57	67	0	-5	-1	4	3
78	3	68	59	-5	0	68	0	-5	-57	4	3
79	4	69	28	-5	0	69	1	-6	0	3	2
80	4	58	34	-6	0	58	57	-7	0	8	7
81	4	59	21	-6	0	59	51	-7	0	7	0
82	4	61	26	-6	0	61	20	-7	0	3	4
83	4	61	47	-6	0	61	40	-7	0	4	3
84	4	62	13	-6	0	62	5	-7	0	3	2
85	3	66	57	-6	0	67	0	-6	-5	3	2
86	4	68	0	-6	-58	67	0	-6	-5	3	2
87	4	69	0	-6	-1	68	0	-6	-58	3	2
88	3	69	1	-6	0	69	0	-6	-1	3	2
89	3	58	57	-7	0	59	0	-7	-6	7	8
90	3	59	0	-7	-6	59	30	-8	0	8	7
91	3	59	51	-7	0	60	0	-7	-18	0	7
92	3	55	43	-8	0	56	0	-8	-55	9	0
93	3	56	0	-8	-55	56	2	-9	0	0	9
94	4	57	46	-8	0	57	55	-9	0	9	8
95	4	59	30	-8	0	59	41	-9	0	8	7
96	3	60	2	-8	0	60	19	-9	0	7	0
97	4	43	8	-9	0	43	8	-10	0	13	12
98	4	47	16	-9	0	47	6	-10	0	12	11
99	4	56	2	-9	0	56	23	-10	0	10	9
100	3	57	55	-9	0	58	0	-9	-37	8	9
101	3	58	0	-9	-37	58	3	-10	0	9	8
102	4	59	41	-9	0	59	44	-10	0	8	7
103	3	60	19	-9	0	61	0	-9	-56	2	7
104	4	43	8	-10	0	43	47	-11	0	13	12
105	3	47	0	-10	-21	46	47	-11	0	11	12
106	3	47	6	-10	0	47	0	-10	-21	12	11
107	3	49	0	-10	-14	48	6	-11	0	10	11
108	4	56	23	-10	0	56	42	-11	0	10	9
109	4	58	3	-10	0	58	12	-11	0	9	8
110	4	59	44	-10	0	59	46	-11	0	8	7
111	4	61	3	-10	0	61	38	-11	0	7	2
112	3	70	0	-10	-10	69	45	-11	0	1	2
113	3	43	47	-11	0	44	0	-11	-21	12	13
114	3	44	0	-11	-21	44	20	-12	0	13	12
115	4	46	47	-11	0	46	25	-12	0	12	11
116	3	48	0	-11	-5	47	24	-12	0	10	11
117	3	48	6	-11	0	48	0	-11	-5	11	10
118	4	56	42	-11	0	56	52	-12	0	10	9
119	4	58	12	-11	0	58	21	-12	0	9	8
120	4	59	46	-11	0	59	46	-12	0	8	7

REC NO	S	LAT		LONG		LAT		LONG		AREA	
		DEG	MIN	DEG	MIN	DEG	MIN	DEG	MIN	IN	OUT
121	3	61	38	-11	0	62	0	-11	-45	2	7
122	3	62	0	-11	-45	62	6	-12	0	7	2
123	3	68	0	-11	-55	67	5	-12	0	2	1
124	4	69	0	-11	-50	68	0	-11	-55	2	1
125	3	69	45	-11	0	69	0	-11	-50	2	1
126	4	44	22	-12	0	44	46	-13	0	13	12
127	4	46	25	-12	0	46	2	-13	0	12	11
128	4	47	24	-12	0	47	19	-13	0	11	10
129	4	56	52	-12	0	56	49	-13	0	10	9
130	4	58	21	-12	0	58	29	-13	0	9	8
131	4	59	46	-12	0	59	44	-13	0	8	7
132	4	62	6	-12	0	62	23	-13	0	7	2
133	4	67	0	-12	-2	66	0	-12	-40	2	1
134	3	67	5	-12	0	67	0	-12	-2	2	1
135	4	44	46	-13	0	44	48	-14	0	13	12
136	3	46	0	-13	-6	45	42	-14	0	11	12
137	3	46	2	-13	0	46	0	-13	-6	12	11
138	4	47	19	-13	0	47	13	-14	0	11	10
139	4	56	49	-13	0	56	36	-14	0	10	9
140	4	58	29	-13	0	58	34	-14	0	9	8
141	4	59	44	-13	0	59	42	-14	0	8	7
142	4	62	23	-13	0	62	35	-14	0	7	2
143	4	44	48	-14	0	44	33	-15	0	13	12
144	4	45	42	-14	0	45	22	-15	0	12	11
145	4	47	13	-14	0	47	8	-15	0	11	10
146	4	56	36	-14	0	56	11	-15	0	10	9
147	4	58	34	-14	0	58	39	-15	0	9	8
148	4	59	42	-14	0	59	39	-15	0	8	7
149	4	62	35	-14	0	62	42	-15	0	7	2
150	3	44	33	-15	0	44	0	-16	0	13	12
151	4	45	22	-15	0	45	5	-16	0	12	11
152	4	47	8	-15	0	47	5	-16	0	11	10
153	3	56	0	-15	-39	55	37	-16	0	9	10
154	3	56	11	-15	0	56	0	-15	-39	10	9
155	4	58	39	-15	0	58	42	-16	0	9	8
156	4	59	39	-15	0	59	36	-16	0	8	7
157	4	62	42	-15	0	62	48	-16	0	7	2
158	4	10	20	-16	0	10	40	-17	0	19	11
159	4	13	0	-16	-33	12	0	-16	-25	0	11
160	4	14	0	-16	-45	13	0	-16	-33	0	11
161	3	16	0	-16	-29	15	14	-17	0	11	0
162	4	17	0	-16	-22	16	0	-16	-27	0	11
163	4	18	0	-16	-10	17	0	-16	-22	0	11
164	3	43	0	-16	-57	42	58	-17	0	12	13
165	3	44	0	-16	0	43	0	-16	-57	13	12
166	3	45	0	-16	-15	44	47	-17	0	11	12
167	3	45	5	-16	0	45	0	-16	-15	12	11
168	4	47	5	-16	0	47	4	-17	0	11	10
169	3	55	0	-16	-56	54	57	-17	0	9	10
170	3	55	37	-16	0	55	0	-16	-56	10	9
171	4	58	42	-16	0	58	44	-17	0	9	8
172	4	59	36	-16	0	59	35	-17	0	8	7
173	4	62	48	-16	0	62	51	-17	0	7	0
174	4	10	40	-17	0	10	59	-18	0	19	11
175	4	14	29	-17	0	14	53	-18	0	11	0
176	4	22	27	-17	0	22	18	-18	0	11	12
177	3	24	0	-17	-32	23	49	-18	0	13	0
178	3	42	0	-17	-28	41	30	-18	0	12	13
179	3	42	58	-17	0	42	0	-17	-28	13	12
180	4	44	47	-17	0	44	29	-18	0	12	11

REC NO	S	LAT		LONG		LAT		LONG		AREA	
		DEG	MIN	DEG	MIN	DEG	MIN	DEG	MIN	IN	OUT
181	4	47	4	-17	0	47	3	-18	0	11	10
182	4	54	57	-17	0	54	14	-18	0	10	9
183	4	58	44	-17	0	58	45	-18	0	9	8
184	4	59	35	-17	0	59	36	-18	0	8	7
185	4	62	51	-17	0	62	54	-18	0	7	0
186	3	10	59	-18	0	11	0	-18	-5	11	19
187	4	12	0	-18	-49	11	0	-18	-5	11	19
188	3	12	0	-18	-49	12	55	-19	0	19	11
189	3	22	0	-18	-55	21	58	-19	0	12	11
190	3	22	18	-18	0	22	0	-18	-55	11	12
191	4	23	49	-18	0	23	30	-19	0	12	13
192	3	41	0	-18	-28	40	30	-19	0	12	13
193	3	41	30	-18	0	41	0	-18	-28	13	12
194	4	44	29	-18	0	44	10	-19	0	12	11
195	4	47	3	-18	0	47	3	-19	0	11	10
196	3	54	0	-18	-23	53	31	-19	0	9	10
197	3	54	14	-18	0	54	0	-18	-23	10	9
198	4	58	45	-18	0	58	37	-19	0	9	8
199	4	62	54	-18	0	62	57	-19	0	7	0
200	4	13	0	-19	-2	14	0	-19	-26	11	19
201	3	14	0	-19	-26	14	34	-20	0	19	11
202	4	21	58	-19	0	21	42	-20	0	11	12
203	4	23	30	-19	0	23	15	-20	0	12	13
204	3	40	0	-19	-32	39	38	-20	0	12	13
205	3	40	30	-19	0	40	0	-19	-32	13	12
206	3	44	0	-19	-33	43	52	-20	0	11	12
207	3	44	10	-19	0	44	0	-19	-33	12	11
208	4	47	3	-19	0	47	5	-20	0	11	10
209	3	53	0	-19	-42	52	47	-20	0	9	10
210	3	53	31	-19	0	53	0	-19	-42	10	9
211	4	58	37	-19	0	58	15	-20	0	9	8
212	4	59	38	-19	0	59	40	-20	0	8	7
213	3	62	57	-19	0	63	0	-19	-56	0	0
214	3	63	0	-19	-56	63	1	-20	0	7	7
215	4	14	34	-20	0	14	59	-21	0	19	11
216	4	21	42	-20	0	21	30	-21	0	11	12
217	4	23	15	-20	0	23	2	-21	0	12	13
218	3	39	0	-20	-52	38	54	-21	0	12	13
219	3	39	38	-20	0	39	0	-20	-52	13	12
220	4	43	52	-20	0	43	33	-21	0	12	11
221	4	47	5	-20	0	47	7	-21	0	11	10
222	4	52	47	-20	0	52	8	-21	0	10	9
223	3	55	0	-20	-56	54	50	-21	0	8	9
224	4	56	0	-20	-50	55	0	-20	-56	9	8
225	4	57	0	-20	-40	56	0	-20	-50	9	8
226	4	58	0	-20	-18	57	0	-20	-40	9	8
227	3	58	14	-20	0	58	0	-20	-18	9	8
228	4	59	41	-20	0	59	36	-21	0	8	7
229	4	63	1	-20	0	63	5	-21	0	7	0
230	3	14	59	-21	0	15	0	-21	-1	11	19
231	3	15	0	-21	-1	15	18	-22	0	11	11
232	4	21	30	-21	0	21	20	-22	0	11	12
233	3	23	0	-21	-7	22	50	-22	0	13	12
234	3	23	2	-21	0	23	0	-21	-7	12	13
235	4	38	54	-21	0	38	13	-22	0	13	12
236	4	43	33	-21	0	43	10	-22	0	12	11
237	3	47	0	-21	-58	46	59	-22	0	10	11
238	3	47	7	-21	0	47	0	-21	-58	11	10
239	3	52	0	-21	-10	51	11	-22	0	11	10
240	3	52	8	-21	0	52	0	-21	-10	10	9

REC NO	S	LAT		LONG		LAT		LONG		AREA	
		DEG	MIN	DEG	MIN	DEG	MIN	DEG	MIN	IN	OUT
241	3	54	0	-21	-21	53	12	-22	0	8	9
242	3	54	50	-21	0	54	0	-21	-21	9	8
243	4	59	36	-21	0	59	16	-22	0	8	7
244	4	63	5	-21	0	63	11	-22	0	7	0
245	4	15	18	-22	0	15	31	-23	0	19	11
246	4	21	20	-22	0	21	14	-23	0	11	12
247	4	22	50	-22	0	22	44	-23	0	12	13
248	3	38	0	-22	-20	37	35	-23	0	13	12
249	3	38	13	-22	0	38	0	-22	-20	13	12
250	3	43	0	-22	-30	42	51	-23	0	11	12
251	3	43	10	-22	0	43	0	-22	-30	12	11
252	4	46	59	-22	0	46	30	-23	0	11	10
253	3	51	0	-22	-12	50	16	-23	0	9	10
254	3	51	11	-22	0	51	0	-22	-12	10	9
255	3	53	0	-22	-10	52	8	-23	0	8	9
256	3	53	12	-22	0	53	0	-22	-10	9	8
257	3	56	0	-22	-54	55	15	-23	0	7	8
258	4	57	0	-22	-50	56	0	-22	-54	8	7
259	4	58	0	-22	-43	57	0	-22	-50	8	7
260	4	59	0	-22	-17	58	0	-22	-43	8	7
261	3	59	16	-22	0	59	0	-22	-17	8	7
262	4	63	11	-22	0	63	28	-23	0	7	0
263	4	15	31	-23	0	15	39	-24	0	19	11
264	4	21	14	-23	0	21	8	-24	0	11	12
265	4	22	44	-23	0	22	27	-24	0	12	13
266	4	37	35	-23	0	37	3	-24	0	13	12
267	4	42	51	-23	0	42	33	-24	0	12	11
268	3	46	0	-23	-47	45	51	-24	0	10	11
269	3	46	30	-23	0	46	0	-23	-47	11	10
270	3	50	0	-23	-18	49	25	-24	0	9	10
271	3	50	16	-23	0	50	0	-23	-19	10	9
272	3	52	0	-23	-9	51	10	-24	0	8	9
273	3	52	8	-23	0	52	0	-23	-9	9	8
274	3	53	0	-23	-49	52	42	-24	0	7	8
275	4	54	0	-23	-25	53	0	-23	-50	8	7
276	4	55	0	-23	-4	54	0	-23	-25	8	7
277	3	55	15	-23	0	55	0	-23	-4	8	7
278	4	63	28	-23	0	63	52	-24	0	7	0
279	4	15	39	-24	0	15	47	-25	0	19	11
280	3	21	0	-24	-52	20	57	-25	0	12	11
281	3	21	8	-24	0	21	0	-24	-52	11	12
282	4	22	27	-24	0	22	15	-25	0	12	13
283	3	37	0	-24	-5	36	34	-25	0	12	13
284	3	37	3	-24	0	37	0	-24	-5	13	12
285	4	42	33	-24	0	42	22	-25	0	12	11
286	4	45	51	-24	0	45	8	-25	0	11	10
287	3	49	0	-24	-33	48	38	-25	0	9	10
288	3	49	25	-24	0	49	0	-24	-33	10	9
289	3	51	0	-24	-11	50	12	-25	0	8	9
290	3	51	10	-24	0	51	0	-24	-11	8	7
291	3	52	42	-24	0	52	0	-24	-33	8	7
292	3	63	52	-24	0	64	0	-24	-19	0	7
293	3	64	0	-24	-19	64	18	-25	0	7	0
294	4	15	42	-25	0	15	51	-26	0	19	11
295	4	20	57	-25	0	20	43	-26	0	11	12
296	4	22	15	-25	0	22	15	-26	0	12	13
297	4	36	34	-25	0	36	9	-26	0	13	12
298	4	42	22	-25	0	42	1	-26	0	12	11
299	3	45	0	-25	-17	44	58	-26	0	10	11
300	3	45	8	-25	0	45	0	-25	-17	11	10

REC NO	S	LAT		LONG		LAT		LONG		AREA	
		DEG	MIN	DEG	MIN	DEG	MIN	DEG	MIN	IN	OUT
301	3	48	0	-25	-49	47	53	-26	0	9	10
302	3	48	38	-25	0	48	0	-25	-49	10	9
303	3	50	0	-25	-15	49	20	-26	0	8	9
304	3	50	12	-25	0	50	0	-25	-13	9	8
305	4	51	46	-25	0	51	29	-26	0	8	7
306	4	64	18	-25	0	64	44	-26	0	7	6
307	3	65	0	-25	-1	65	6	-26	0	6	1
308	4	15	51	-26	0	15	55	-27	0	19	11
309	4	20	43	-26	0	20	35	-27	0	11	12
310	4	22	15	-26	0	22	22	-27	0	12	13
311	3	36	0	-26	-29	35	59	-27	0	12	13
312	3	36	9	-26	0	36	0	-26	-29	13	12
313	3	42	0	-26	-2	41	31	-27	0	11	12
314	3	42	0	-26	-2	42	1	-26	0	12	11
315	3	45	0	-26	-15	44	58	-26	0	10	11
316	3	45	0	-26	-15	45	12	-27	0	11	10
317	4	47	57	-26	0	47	17	-27	0	10	9
318	3	49	0	-26	-23	48	28	-27	0	8	9
319	3	49	20	-26	0	49	0	-26	-33	9	8
320	4	51	29	-26	0	51	14	-27	0	8	7
321	4	64	44	-26	0	64	57	-27	0	7	6
322	4	65	6	-26	0	65	10	-27	0	6	1
323	4	15	55	-27	0	15	57	-28	0	19	11
324	4	20	35	-27	0	20	29	-28	0	11	12
325	4	22	22	-27	0	22	32	-28	0	12	13
326	4	35	59	-27	0	35	37	-28	0	13	12
327	3	41	31	-27	0	41	0	-28	0	12	11
328	4	45	12	-27	0	45	34	-28	0	11	10
329	3	47	0	-27	-31	46	44	-28	0	9	10
330	3	47	17	-27	0	47	0	-27	-31	10	9
331	3	48	0	-27	-36	47	45	-28	0	8	9
332	3	48	28	-27	0	48	0	-27	-33	9	8
333	4	51	14	-27	0	51	5	-28	0	8	7
334	3	53	0	-27	-54	52	51	-28	0	6	7
335	4	54	0	-27	-41	55	0	-27	-49	7	6
336	3	55	0	-27	-49	55	7	-28	0	6	7
337	4	64	57	-27	0	64	55	-28	0	7	6
338	4	65	10	-27	0	65	12	-28	0	6	1
339	4	15	57	-28	0	15	58	-29	0	19	11
340	4	20	29	-28	0	20	27	-29	0	11	12
341	4	22	32	-28	0	22	48	-29	0	12	13
342	4	35	37	-28	0	35	18	-29	0	13	12
343	3	41	0	-28	0	40	22	-29	0	11	12
344	4	45	34	-28	0	45	22	-29	0	11	10
345	4	46	44	-28	0	46	8	-29	0	10	9
346	4	47	45	-28	0	47	14	-29	0	9	8
347	4	51	5	-28	0	51	1	-29	0	8	7
348	4	52	51	-28	0	52	15	-29	0	7	6
349	4	55	7	-28	0	55	38	-29	0	6	7
350	4	64	55	-28	0	64	47	-29	0	7	6
351	4	65	12	-28	0	65	13	-29	0	6	1
352	4	15	58	-29	0	15	59	-30	0	19	11
353	4	20	27	-29	0	20	22	-30	0	11	12
354	4	22	48	-29	0	22	58	-30	0	12	13
355	3	35	18	-29	0	35	0	-30	0	13	12
356	3	40	0	-29	-35	39	41	-30	0	11	12
357	3	40	22	-29	0	40	0	-29	-35	12	11
358	3	45	0	-29	-44	44	52	-30	0	10	11
359	3	45	22	-29	0	45	0	-29	-44	11	10
360	3	46	0	-29	-15	45	40	-30	0	9	10

REC NO	S	LAT		LONG		LAT		LONG		AREA	
		DEG	MIN	DEG	MIN	DEG	MIN	DEG	MIN	IN	OUT
361	3	46	8	-29	0	46	0	-29	-15	10	9
362	3	47	0	-29	-33	46	49	-30	0	8	9
363	3	47	14	-29	0	47	0	-29	-33	9	8
364	3	52	0	-29	-31	51	54	-30	0	6	7
365	3	52	15	-29	0	52	0	-29	-31	7	6
366	4	55	38	-29	0	55	53	-30	0	6	7
367	4	64	47	-29	0	64	41	-30	0	7	6
368	4	65	13	-29	0	65	11	-30	0	6	1
369	4	15	59	-30	0	15	52	-31	0	19	11
370	4	20	22	-30	0	20	15	-31	0	11	12
371	3	22	58	-30	0	23	0	-30	-5	13	12
372	3	23	0	-30	-5	23	6	-31	0	12	13
373	3	35	0	-30	0	34	40	-31	0	12	13
374	4	39	41	-30	0	39	11	-31	0	12	11
375	4	44	52	-30	0	44	9	-31	0	11	10
376	4	45	40	-30	0	45	13	-31	0	10	9
377	4	46	49	-30	0	46	20	-31	0	9	8
378	4	51	54	-30	0	51	39	-31	0	7	6
379	3	55	53	-30	0	56	0	-30	-49	7	6
380	3	56	0	-30	-49	56	2	-31	0	6	7
381	4	64	41	-30	0	64	34	-31	0	7	6
382	4	65	11	-30	0	65	8	-31	0	6	1
383	4	15	52	-31	0	15	40	-32	0	19	11
384	4	20	15	-31	0	20	14	-32	0	11	12
385	4	23	6	-31	0	23	8	-32	0	12	13
386	4	34	40	-31	0	34	22	-32	0	13	12
387	3	39	0	-31	-22	38	37	-32	0	11	12
388	3	39	11	-31	0	39	0	-31	-22	12	11
389	3	44	0	-31	-18	43	50	-32	0	10	11
390	3	44	0	-31	-18	44	9	-31	0	11	10
391	3	45	0	-31	-24	44	39	-32	0	9	10
392	3	45	13	-31	0	45	0	-31	-24	10	9
393	4	46	20	-31	0	46	3	-32	0	9	8
394	4	50	59	-31	0	50	57	-32	0	8	7
395	4	51	39	-31	0	51	27	-32	0	7	6
396	4	56	2	-31	0	56	12	-32	0	6	7
397	4	64	34	-31	0	64	26	-32	0	7	6
398	4	65	8	-31	0	65	4	-32	0	6	1
399	4	15	40	-32	0	15	25	-33	0	19	11
400	4	20	14	-32	0	20	15	-33	0	11	12
401	4	23	8	-32	0	23	7	-33	0	12	13
402	4	34	22	-32	0	34	4	-33	0	13	12
403	4	38	37	-32	0	38	2	-33	0	12	11
404	4	43	50	-32	0	43	45	-33	0	11	10
405	4	44	39	-32	0	44	11	-33	0	10	9
406	4	46	3	-32	0	46	7	-33	0	9	8
407	4	50	57	-32	0	50	52	-33	0	8	7
408	4	51	27	-32	0	51	11	-33	0	7	6
409	4	56	12	-32	0	56	22	-33	0	6	7
410	4	64	26	-32	0	64	15	-33	0	7	6
411	4	65	4	-32	0	65	1	-33	0	6	1
412	4	15	25	-33	0	15	7	-34	0	19	11
413	4	20	15	-33	0	20	14	-34	0	11	12
414	4	23	7	-33	0	23	4	-34	0	12	13
415	3	34	0	-33	-16	33	48	-34	0	12	13
416	3	34	4	-33	0	34	0	-33	-16	13	12
417	3	38	0	-33	-4	37	27	-34	0	11	12
418	3	38	2	-33	0	38	0	-33	-4	12	11
419	4	43	45	-33	0	43	51	-34	0	11	10
420	4	44	11	-33	0	44	26	-34	0	10	9

REC NO	S	LAT		LONG		LAT		LONG		AREA	
		DEG	MIN	DEG	MIN	DEG	MIN	DEG	MIN	IN	OUT
421	4	46	7	-33	0	46	19	-34	0	9	8
422	4	50	52	-33	0	50	46	-34	0	8	7
423	4	51	11	-33	0	51	10	-34	0	7	6
424	4	56	22	-33	0	56	36	-34	0	6	7
425	4	64	15	-33	0	64	2	-34	0	7	6
426	3	65	0	-33	-1	64	55	-34	0	1	6
427	3	65	1	-33	0	65	0	-33	-1	6	1
428	3	15	0	-34	-24	14	48	-35	0	11	19
429	3	15	7	-34	0	15	0	-34	-24	19	11
430	4	20	14	-34	0	20	10	-35	0	11	12
431	3	23	0	-34	-43	22	58	-35	0	13	12
432	3	23	4	-34	0	23	0	-34	-43	12	13
433	4	33	48	-34	0	33	30	-35	0	13	12
434	3	37	0	-34	-45	36	51	-35	0	11	12
435	3	37	27	-34	0	37	0	-34	-45	12	11
436	4	43	51	-34	0	43	46	-35	0	11	10
437	3	44	26	-34	0	45	0	-34	-51	9	10
438	3	45	0	-34	-51	45	5	-35	0	10	9
439	4	46	19	-34	0	46	43	-35	0	9	8
440	4	50	46	-34	0	50	41	-35	0	8	7
441	4	51	10	-34	0	51	6	-35	0	7	6
442	4	56	36	-34	0	56	50	-35	0	6	7
443	3	61	0	-34	-28	60	7	-35	0	6	7
444	3	61	0	-34	-28	61	50	-35	0	6	7
445	3	64	0	-34	-6	63	32	-35	0	6	7
446	3	64	2	-34	0	64	0	-34	-6	7	6
447	4	64	55	-34	0	64	46	-35	0	6	1
448	4	14	48	-35	0	14	21	-36	0	19	11
449	4	20	10	-35	0	20	1	-36	0	11	12
450	4	22	58	-35	0	22	53	-36	0	12	13
451	4	33	30	-35	0	33	11	-36	0	13	12
452	4	36	51	-35	0	36	18	-36	0	12	11
453	4	43	46	-35	0	43	21	-36	0	11	10
454	4	45	5	-35	0	45	38	-36	0	10	9
455	3	46	43	-35	0	47	0	-35	-32	8	9
456	3	47	0	-35	-32	47	19	-36	0	9	8
457	4	50	41	-35	0	50	39	-36	0	8	7
458	4	51	6	-35	0	51	8	-37	0	7	6
459	3	56	50	-35	0	57	0	-35	-46	7	6
460	3	57	0	-35	-46	57	4	-36	0	6	7
461	3	60	0	-35	-8	59	19	-36	0	6	7
462	3	60	7	-35	0	60	0	-35	-8	7	6
463	3	61	50	-35	0	62	0	-35	-21	7	6
464	4	63	0	-35	-20	62	0	-35	-21	7	6
465	3	63	32	-35	0	63	0	-35	-20	7	6
466	4	64	46	-35	0	64	36	-36	0	6	1
467	3	14	0	-36	-45	13	54	-37	0	11	19
468	3	14	21	-36	0	14	0	-36	-45	19	11
469	3	20	0	-36	-3	19	47	-37	0	12	11
470	3	20	1	-36	0	20	0	-36	-3	11	12
471	4	22	53	-36	0	22	37	-37	0	12	13
472	3	33	0	-36	-46	32	57	-37	0	12	13
473	3	33	11	-36	0	33	0	-36	-46	13	12
474	3	36	0	-36	-35	35	58	-37	0	11	12
475	3	36	18	-36	0	36	0	-36	-35	12	11
476	3	43	0	-36	-40	42	31	-37	0	10	11
477	3	43	22	-36	0	43	0	-36	-40	11	10
478	3	45	38	-36	0	46	0	-36	-35	9	10
479	3	46	0	-36	-35	46	18	-37	0	10	9
480	4	47	16	-36	0	47	47	-37	0	9	8

REC NO	S	LAT		LONG		LAT		LONG		AREA	
		DEG	MIN	DEG	MIN	DEG	MIN	DEG	MIN	IN	OUT
481	4	50	39	-36	0	50	28	-37	0	8	7
482	4	51	8	-36	0	51	7	-37	0	7	6
483	4	57	4	-36	0	57	50	-37	0	6	7
484	3	59	0	-36	-22	58	13	-37	0	6	7
485	3	59	19	-36	0	59	0	-36	-22	7	6
486	4	64	36	-36	0	64	20	-37	0	6	1
487	4	13	54	-37	0	13	32	-38	0	19	11
488	4	19	47	-37	0	19	33	-38	0	11	12
489	4	22	37	-37	0	22	25	-38	0	12	13
490	4	32	57	-37	0	32	44	-38	0	13	12
491	4	35	58	-37	0	35	29	-38	0	12	11
492	3	42	0	-37	-18	41	28	-38	0	10	11
493	3	42	31	-37	0	42	0	-37	-18	11	10
494	3	43	0	-37	-54	42	3	-38	0	9	10
495	3	43	0	-37	-54	43	21	-38	0	9	10
496	3	46	18	-37	0	47	0	-37	-49	9	10
497	3	47	0	-37	-49	47	9	-38	0	10	9
498	3	47	47	-37	0	48	0	-37	-28	8	9
499	3	48	0	-37	-28	48	8	-38	0	9	8
500	4	50	28	-37	0	50	25	-38	0	8	7
501	4	51	7	-37	0	51	6	-38	0	7	6
502	3	57	50	-37	0	58	0	-37	-3	7	6
503	3	58	13	-37	0	58	0	-37	-3	7	6
504	4	59	0	-39	-19	60	0	-39	-39	6	5
505	4	64	20	-37	0	64	1	-38	0	6	1
506	4	13	32	-38	0	13	15	-39	0	19	11
507	4	19	33	-38	0	19	20	-39	0	11	12
508	4	22	25	-38	0	22	18	-39	0	12	13
509	4	32	44	-38	0	32	33	-39	0	13	12
510	4	35	29	-38	0	35	3	-39	0	12	11
511	4	41	28	-38	0	41	4	-39	0	11	10
512	3	42	0	-38	-4	41	4	-39	0	9	10
513	3	42	3	-38	0	42	0	-38	-4	10	9
514	3	43	21	-38	0	44	0	-38	-18	10	9
515	4	45	0	-38	-56	44	0	-38	-18	10	9
516	3	45	0	-38	-56	45	6	-39	0	9	10
517	4	47	9	-38	0	47	50	-39	0	10	9
518	4	48	8	-38	0	48	49	-39	0	9	8
519	4	50	25	-38	0	50	20	-39	0	8	7
520	4	51	6	-38	0	51	5	-39	0	7	6
521	3	64	0	-38	-3	63	36	-39	0	1	6
522	3	64	1	-38	0	64	0	-38	-3	6	1
523	4	13	15	-39	0	13	1	-40	0	19	11
524	4	19	20	-39	0	19	10	-40	0	11	12
525	4	22	18	-39	0	22	16	-40	0	12	13
526	4	32	33	-39	0	32	23	-40	0	13	12
527	3	35	0	-39	-6	34	38	-40	0	11	12
528	3	35	3	-39	0	35	0	-39	-6	12	11
529	3	41	0	-39	-11	40	40	-40	0	9	11
530	3	41	4	-39	0	41	0	-39	-11	11	9
531	3	45	6	-39	0	46	0	-39	-38	10	9
532	3	46	0	-39	-38	46	28	-40	0	9	10
533	4	47	50	-39	0	47	53	-40	0	10	9
534	3	48	49	-39	0	49	0	-39	-20	8	9
535	3	49	0	-39	-20	49	6	-40	0	9	8
536	4	50	20	-39	0	50	10	-40	0	8	7
537	4	51	5	-39	0	51	4	-40	0	7	6
538	3	59	0	-39	-19	58	12	-40	0	5	6
539	3	60	0	-39	-39	60	22	-40	0	5	6
540	4	63	36	-39	0	63	6	-40	0	6	1

REC NO	S	LAT DEG	LAT MIN	LONG DEG	LONG MIN	LAT DEG	LAT MIN	LONG DEG	LONG MIN	AREA IN	AREA OUT
541	3	13	0	-40	-2	12	57	-41	0	11	19
542	3	13	0	-40	-2	13	1	-40	0	19	11
543	4	19	10	-40	0	19	1	-41	0	11	12
544	4	22	16	-40	0	22	27	-41	0	12	13
545	4	32	23	-40	0	32	10	-41	0	13	12
546	4	34	38	-40	0	34	18	-41	0	12	11
547	3	39	0	-40	-33	38	1	-41	0	12	11
548	3	39	0	-40	-33	39	26	-41	0	12	11
549	4	40	40	-40	0	40	20	-41	0	11	9
550	3	46	28	-40	0	47	0	-40	-21	10	9
551	3	47	0	-40	-57	46	30	-41	0	8	9
552	4	48	0	-40	-55	47	0	-40	-57	9	8
553	3	47	53	-40	0	47	0	-40	-21	10	9
554	4	49	0	-40	-22	48	0	-40	-55	9	8
555	3	49	6	-40	0	49	0	-40	-22	9	8
556	3	50	0	-40	-42	49	55	-41	0	7	8
557	3	50	10	-40	0	50	0	-40	-42	8	7
558	4	51	4	-40	0	51	2	-41	0	7	6
559	3	58	0	-40	-11	57	7	-41	0	5	6
560	3	58	12	-40	0	58	0	-40	-11	6	5
561	3	60	22	-40	0	61	0	-40	-55	6	5
562	3	61	0	-40	-55	61	4	-41	0	5	6
563	3	63	0	-40	-8	62	10	-41	0	1	6
564	3	63	6	-40	0	63	0	-40	-8	6	1
565	4	12	57	-41	0	12	57	-42	0	19	11
566	3	19	0	-41	-1	18	49	-42	0	12	11
567	3	19	0	-41	-1	19	1	-41	0	11	12
568	4	22	27	-41	0	22	56	-42	0	12	13
569	3	32	0	-41	-52	31	59	-42	0	12	13
570	4	34	18	-41	0	34	19	-42	0	12	11
571	3	38	0	-41	0	37	7	-42	0	12	11
572	4	39	26	-41	0	39	31	-42	0	12	11
573	4	40	20	-41	0	40	3	-42	0	11	9
574	3	44	0	-41	-51	43	44	-42	0	8	9
575	4	45	0	-41	-25	44	0	-41	-51	9	8
576	4	46	0	-41	-5	45	0	-41	-25	9	8
577	3	46	0	-41	-56	45	4	-42	0	7	8
578	3	46	30	-41	0	46	0	-41	-5	9	8
579	4	47	0	-41	-58	46	0	-41	-56	8	7
580	3	47	0	-41	-58	47	43	-42	0	7	8
581	3	48	10	-42	0	49	0	-41	-56	7	8
582	3	49	55	-41	0	49	0	-41	-56	8	7
583	3	51	0	-41	-14	50	54	-42	0	6	7
584	3	51	2	-41	0	51	0	-41	-14	7	6
585	3	57	0	-41	-7	56	8	-42	0	5	6
586	3	57	7	-41	0	57	0	-41	-7	6	5
587	3	61	4	-41	0	62	0	-41	-9	6	5
588	3	62	10	-41	0	62	0	-41	-9	6	1
589	4	12	57	-42	0	12	57	-43	0	19	11
590	4	18	49	-42	0	18	37	-43	0	11	12
591	3	22	56	-42	0	23	0	-42	-7	13	12
592	3	23	0	-42	-7	23	34	-43	0	12	13
593	4	31	59	-42	0	31	53	-43	0	13	12
594	4	34	19	-42	0	34	52	-43	0	12	11
595	3	37	0	-42	-12	37	19	-43	0	12	11
596	3	37	6	-42	0	36	0	-42	-12	11	12
597	3	40	0	-42	-25	39	56	-43	0	11	9
598	3	40	3	-42	0	40	0	-42	-25	11	9
599	3	43	0	-42	-30	42	27	-43	0	8	9
600	3	43	44	-42	0	43	0	-42	-30	9	8

REC NO	S	LAT		LONG		LAT		LONG		AREA	
		DEG	MIN	DEG	MIN	DEG	MIN	DEG	MIN	IN	OUT
601	3	44	0	-42	-43	43	44	-43	0	7	8
602	4	45	0	-42	-1	44	0	-42	-43	8	7
603	3	45	0	-42	-1	45	4	-42	0	8	7
604	3	47	43	-42	0	48	0	-42	-2	8	7
605	3	48	10	-42	0	48	0	-42	-2	8	7
606	4	50	54	-42	0	50	18	-43	0	5	6
607	3	56	0	-42	-9	55	9	-43	0	5	6
608	3	56	8	-42	0	56	0	-42	-9	6	5
609	3	58	0	-42	-44	57	32	-43	0	4	5
610	4	59	0	-42	-27	58	0	-42	-44	5	4
611	4	60	0	-42	-11	59	0	-42	-27	5	4
612	3	60	33	-42	0	60	0	-42	-11	5	0
613	4	12	56	-43	0	12	56	-44	0	19	11
614	4	18	37	-43	0	18	24	-44	0	11	12
615	3	23	34	-43	0	24	0	-43	-43	13	12
616	3	24	0	-43	-43	24	7	-44	0	12	13
617	4	31	53	-43	0	31	43	-44	0	13	12
618	3	34	52	-43	0	35	0	-43	-9	11	12
619	4	36	0	-43	-13	35	0	-43	-9	11	12
620	3	36	19	-43	0	36	0	-43	-13	11	12
621	4	39	56	-43	0	39	55	-44	0	12	9
622	3	42	0	-43	-31	41	46	-44	0	8	8
623	3	42	27	-43	0	42	0	-43	-31	9	8
624	3	43	0	-43	-47	42	48	-44	0	7	8
625	3	43	44	-43	0	43	0	-43	-47	8	7
626	3	45	0	-43	-58	44	53	-44	0	6	6
627	4	46	0	-43	-55	45	0	-43	-58	7	6
628	4	47	0	-43	-53	46	0	-43	-55	7	6
629	4	48	0	-43	-50	47	0	-43	-53	7	6
630	4	49	0	-43	-31	48	0	-43	-50	7	6
631	4	50	0	-43	-11	49	0	-43	-31	7	6
632	3	50	0	-43	-53	49	28	-44	0	5	6
633	3	50	18	-43	0	50	0	-43	-12	5	6
634	3	50	0	-43	-53	50	28	-44	0	5	6
635	3	55	0	-43	-10	54	13	-44	0	5	6
636	3	55	9	-43	0	55	0	-43	-10	6	5
637	3	56	0	-43	-43	55	30	-44	0	4	5
638	4	57	0	-43	-13	56	0	-43	-43	5	4
639	3	57	32	-43	0	57	0	-43	-13	5	4
640	4	12	56	-44	0	12	56	-45	0	11	11
641	4	18	24	-44	0	18	16	-45	0	11	12
642	4	24	7	-44	0	24	42	-45	0	12	13
643	4	31	43	-44	0	31	36	-45	0	13	12
644	4	39	55	-44	0	39	50	-45	0	12	9
645	4	41	46	-44	0	41	14	-45	0	9	8
646	4	42	48	-44	0	42	4	-45	0	8	7
647	3	44	0	-44	-41	43	53	-45	0	6	6
648	3	44	53	-44	0	44	0	-44	-41	7	6
649	3	48	0	-44	-57	47	58	-45	0	5	6
650	4	49	0	-44	-24	48	0	-44	-57	6	6
651	3	49	28	-44	0	49	0	-44	-24	6	6
652	3	50	0	-44	-33	49	30	-45	0	4	4
653	3	50	28	-44	0	51	0	-44	-22	6	5
654	3	50	0	-44	-37	50	40	-45	0	4	4
655	3	51	0	-44	-22	51	59	-45	0	5	6
656	3	53	0	-44	-55	52	50	-45	0	5	6
657	4	54	0	-44	-7	53	0	-44	-55	6	5
658	3	54	13	-44	0	54	0	-44	-7	6	5
659	3	55	0	-44	-18	54	14	-45	0	4	4
660	3	55	30	-44	0	55	0	-44	-18	5	4

REC NO	S	LAT		LONG		LAT		LONG		AREA	
		DEG	MIN	DEG	MIN	DEG	MIN	DEG	MIN	IN	OUT
661	4	12	51	-45	0	12	54	-46	0	19	11
662	4	18	19	-45	0	18	14	-46	0	11	12
663	3	24	42	-45	0	25	0	-45	-34	13	12
664	3	25	0	-45	-34	25	15	-46	0	13	12
665	4	31	36	-45	0	31	37	-46	0	13	12
666	4	39	50	-45	0	39	43	-46	0	12	9
667	3	41	0	-45	-28	40	46	-46	0	8	9
668	3	41	14	-45	0	41	0	-45	-28	9	8
669	3	42	0	-45	-5	41	42	-46	0	7	8
670	3	42	4	-45	0	42	0	-45	-5	8	7
671	4	43	53	-45	0	43	28	-46	0	7	6
672	3	47	57	-45	0	47	0	-46	0	6	5
673	3	49	0	-45	-24	48	13	-46	0	4	5
674	3	49	30	-45	0	49	0	-45	-24	5	4
675	3	50	41	-45	0	51	0	-45	-39	5	4
676	3	51	0	-45	-39	51	12	-46	0	4	5
677	3	51	58	-45	0	52	0	-45	-1	6	5
678	3	52	50	-45	0	52	0	-45	-1	6	5
679	3	54	0	-45	-20	53	16	-46	0	4	5
680	3	54	14	-45	0	54	0	-45	-20	5	4
681	4	12	54	-46	0	12	56	-47	0	19	11
682	4	18	14	-46	0	18	8	-47	0	11	12
683	4	25	15	-46	0	25	48	-47	0	12	13
684	4	31	37	-46	0	31	51	-47	0	13	12
685	4	39	43	-46	0	39	32	-47	0	12	9
686	4	40	46	-46	0	40	21	-47	0	9	8
687	4	41	42	-46	0	41	23	-47	0	8	7
688	4	43	28	-46	0	43	12	-47	0	7	6
689	3	47	0	-46	0	46	0	-47	0	6	5
690	3	48	0	-46	-7	47	6	-47	0	4	5
691	3	48	13	-46	0	48	0	-46	-7	5	4
692	3	51	12	-46	0	52	0	-46	-52	5	4
693	3	52	0	-46	-52	52	12	-47	0	4	5
694	3	53	0	-46	-22	52	12	-47	0	4	5
695	3	53	16	-46	0	53	0	-46	-22	5	4
696	3	12	56	-47	0	13	0	-47	-40	11	19
697	3	13	0	-47	-40	13	3	-48	0	19	11
698	4	18	8	-47	0	18	7	-48	0	11	12
699	3	25	48	-47	0	26	0	-48	0	13	12
700	3	31	51	-47	0	32	0	-47	-16	12	13
701	3	32	0	-47	-16	32	26	-48	0	13	12
702	4	39	32	-47	0	39	19	-48	0	12	9
703	4	40	21	-47	0	40	2	-48	0	9	8
704	4	41	23	-47	0	41	6	-48	0	8	7
705	3	43	0	-47	-24	42	50	-48	0	6	7
706	3	43	12	-47	0	43	0	-47	-24	7	6
707	3	46	0	-47	0	45	3	-48	0	5	6
708	3	47	0	-47	-7	46	7	-48	0	4	5
709	4	13	3	-48	0	13	8	-49	0	19	11
710	4	18	7	-48	0	18	7	-49	0	11	12
711	3	26	0	-48	0	26	4	-49	0	12	13
712	3	32	26	-48	0	33	0	-48	-47	12	13
713	3	33	0	-48	-47	33	11	-49	0	13	12
714	4	39	19	-48	0	39	6	-49	0	12	9
715	3	40	0	-48	-8	39	54	-49	0	8	8
716	3	40	2	-48	0	40	0	-48	-8	9	8
717	3	41	0	-48	-26	40	52	-49	0	7	8
718	3	41	6	-48	0	41	0	-48	-26	8	7
719	4	42	50	-48	0	42	35	-49	0	7	6
720	3	45	0	-48	-1	44	5	-49	0	5	6

REC NO	S	LAT		LONG		LAT		LONG		AREA	
		DEG	MIN	DEG	MIN	DEG	MIN	DEG	MIN	IN	OUT
721	3	45	3	-48	0	45	0	-48	-1	6	5
722	3	46	0	-48	-7	45	7	-49	0	4	5
723	3	46	7	-48	0	46	0	-48	-7	5	4
724	4	13	8	-49	0	13	10	-50	0	19	11
725	4	18	7	-49	0	18	7	-50	0	11	12
726	4	26	4	-49	0	26	13	-50	0	12	13
727	3	33	11	-49	0	34	0	-49	-50	12	13
728	3	34	0	-49	-50	34	9	-50	0	13	12
729	3	39	0	-49	-32	38	57	-50	0	9	1
730	3	39	6	-49	0	39	0	-49	-32	12	9
731	4	39	54	-49	0	39	52	-50	0	9	8
732	4	40	52	-49	0	40	45	-50	0	8	7
733	4	42	35	-49	0	42	29	-50	0	7	6
734	3	44	0	-49	-6	43	21	-50	0	5	6
735	3	44	5	-49	0	44	0	-49	-6	6	5
736	3	45	0	-49	-6	44	12	-50	0	4	5
737	3	45	7	-49	0	45	0	-49	-6	5	4
738	3	13	10	-50	0	13	12	-51	0	19	11
739	3	18	7	-50	0	18	7	-51	0	11	12
740	3	26	13	-50	0	26	15	-51	0	12	13
741	3	34	9	-50	0	35	0	-50	-55	12	13
742	3	35	0	-50	-55	35	0	-51	0	13	12
743	3	38	57	-50	0	39	0	-50	-57	9	1
744	3	39	0	-50	-57	39	1	-51	0	12	9
745	4	39	52	-50	0	39	55	-51	0	9	8
746	4	40	45	-50	0	40	49	-51	0	8	7
747	4	42	29	-50	0	42	28	-51	0	7	6
748	3	43	0	-50	-50	42	59	-51	0	5	6
749	3	43	21	-50	0	43	0	-50	-50	6	5
750	3	44	0	-50	-15	43	34	-51	0	4	5
751	3	44	12	-50	0	44	0	-50	-15	5	4
752	4	13	12	-51	0	13	13	-52	0	19	11
753	4	18	7	-51	0	18	6	-52	0	11	12
754	4	26	15	-51	0	26	16	-52	0	12	13
755	3	36	0	-51	-54	36	5	-52	0	13	1
756	3	39	0	-51	0	39	27	-52	0	12	9
757	3	39	55	-51	0	40	0	-51	-19	8	9
758	3	40	0	-51	-19	40	21	-52	0	9	8
759	3	40	49	-51	0	41	0	-51	-27	7	8
760	3	41	0	-51	-27	41	17	-52	0	8	7
761	4	42	28	-51	0	42	49	-52	0	7	6
762	3	42	59	-51	0	43	0	-51	-10	5	6
763	3	43	0	-51	-10	43	15	-52	0	6	5
764	4	43	34	-51	0	43	54	-52	0	5	4
765	4	13	13	-52	0	13	12	-53	0	19	11
766	4	18	6	-52	0	18	4	-53	0	11	12
767	4	26	16	-52	0	26	12	-53	0	12	13
768	3	36	5	-52	0	37	0	-53	0	12	13
769	3	39	27	-52	0	40	0	-52	-51	9	1
770	3	40	0	-52	-51	40	0	-53	0	12	9
771	3	40	21	-52	0	41	6	-52	-55	8	9
772	3	41	0	-52	-55	41	4	-53	0	9	8
773	4	41	17	-52	0	41	54	-53	0	8	7
774	3	42	49	-52	0	43	0	-52	-25	6	7
775	3	43	0	-52	-25	43	13	-53	0	7	6
776	4	43	15	-52	0	43	55	-53	0	6	5
777	3	43	54	-52	0	44	0	-52	-8	4	5
778	3	44	0	-52	-8	44	30	-53	0	5	4
779	4	13	12	-53	0	13	8	-54	0	19	11
780	3	18	4	-53	0	18	0	-53	-32	11	12

REC NO	S	LAT		LONG		LAT		LONG		AREA	
		DEG	MIN	DEG	MIN	DEG	MIN	DEG	MIN	IN	OUT
781	4	26	12	-53	0	26	5	-54	0	12	13
782	3	37	0	-53	0	38	0	-53	-48	12	13
783	3	38	0	-53	-48	38	16	-54	0	13	12
784	4	40	6	-53	0	40	57	-54	0	12	9
785	4	41	4	-53	0	41	51	-54	0	9	8
786	3	41	54	-53	0	42	0	-53	-8	7	8
787	3	42	0	-53	-8	42	32	-54	0	8	7
788	4	43	13	-53	0	43	36	-54	0	7	6
789	3	43	55	-53	0	44	0	-53	-6	5	6
790	3	44	0	-53	-6	44	39	-54	0	6	5
791	3	44	30	-53	0	45	0	-54	0	4	5
792	4	13	8	-54	0	13	1	-55	0	19	11
793	3	18	0	-54	-39	17	42	-55	0	12	11
794	3	26	0	-54	-24	25	52	-55	0	13	12
795	3	26	5	-54	0	26	0	-54	-24	12	13
796	3	38	16	-54	0	39	0	-54	-39	12	13
797	3	39	0	-54	-39	39	28	-55	0	13	12
798	3	40	57	-54	0	41	0	-54	-2	9	12
799	3	41	0	-54	-2	41	39	-55	0	12	9
800	3	41	51	-54	0	42	0	-54	-12	8	9
801	3	42	0	-54	-12	42	23	-55	0	9	8
802	3	42	32	-54	0	43	0	-54	-56	7	8
803	3	43	0	-54	-56	43	2	-55	0	8	7
804	4	43	36	-54	0	43	56	-55	0	7	6
805	4	44	39	-54	0	44	41	-55	0	6	5
806	4	45	1	-54	0	45	2	-55	0	5	4
807	4	67	38	-54	0	67	30	-55	0	4	1
808	3	13	0	-55	0	12	40	-56	0	11	19
809	3	17	0	-55	-56	16	57	-56	0	12	11
810	3	17	42	-55	0	17	0	-55	-56	11	12
811	4	25	52	-55	0	25	35	-56	0	12	13
812	3	39	28	-55	0	40	0	-55	-27	12	13
813	3	40	0	-55	-27	40	26	-56	0	13	12
814	4	41	39	-55	0	41	59	-56	0	12	9
815	4	42	23	-55	0	42	32	-56	0	9	8
816	4	43	2	-55	0	43	15	-56	0	8	7
817	3	43	56	-55	0	44	0	-55	-15	6	7
818	3	44	0	-55	-15	44	2	-56	0	7	6
819	4	44	41	-55	0	44	24	-56	0	6	5
820	3	45	0	-55	-16	44	54	-56	0	4	5
821	4	67	30	-55	0	67	21	-56	0	4	1
822	4	12	40	-56	0	12	7	-57	0	19	11
823	4	16	57	-56	0	16	3	-57	0	11	12
824	4	25	35	-56	0	25	13	-57	0	12	13
825	3	40	26	-56	0	41	0	-56	-54	12	13
826	3	41	0	-56	-54	41	2	-57	0	13	12
827	3	41	59	-56	0	42	0	-56	-2	9	12
828	3	42	0	-56	-2	42	2	-57	0	12	9
829	4	42	32	-56	0	42	30	-57	0	9	8
830	4	43	15	-56	0	43	11	-57	0	8	7
831	3	44	0	-56	-10	43	47	-57	0	6	7
832	3	44	2	-56	0	44	0	-56	-10	7	6
833	4	44	24	-56	0	44	6	-57	0	6	5
834	4	44	54	-56	0	44	44	-57	0	5	4
835	4	67	21	-56	0	67	10	-57	0	4	1
836	3	12	0	-57	-9	11	55	-58	0	11	19
837	3	12	7	-57	0	12	0	-57	-9	19	11
838	3	15	1	-58	0	16	0	-57	-4	12	11
839	3	16	0	-57	-4	16	3	-57	0	11	12
840	3	25	0	-57	-33	24	48	-58	0	13	12

REC NO	S	LAT		LONG		LAT		LONG		AREA	
		DEG	MIN	DEG	MIN	DEG	MIN	DEG	MIN	IN	OUT
8841	3	25	13	-57	0	25	0	-57	-33	12	13
8842	4	41	2	-57	0	41	6	-58	0	13	12
8843	3	42	0	-57	-21	41	51	-58	0	9	12
8844	3	42	2	-57	0	42	0	-57	-21	12	9
8845	4	42	30	-57	0	42	28	-58	0	9	8
8846	4	43	11	-57	0	43	1	-58	0	8	7
8847	4	43	47	-57	0	43	25	-58	0	7	6
8848	3	44	0	-57	-22	43	49	-58	0	5	6
8849	3	44	6	-57	0	44	0	-57	-22	6	5
8850	4	44	44	-57	0	44	30	-58	0	5	4
8851	3	67	10	-57	0	67	0	-58	0	4	1
8852	4	11	55	-58	0	11	40	-59	0	19	11
8853	3	15	0	-58	0	14	7	-59	0	12	11
8854	4	24	48	-58	0	24	22	-59	0	12	13
8855	4	41	6	-58	0	41	34	-59	0	13	12
8856	4	41	51	-58	0	41	34	-59	0	12	9
8857	4	42	28	-58	0	42	9	-59	0	9	8
8858	3	43	0	-58	-4	42	46	-59	0	7	8
8859	3	43	1	-58	0	43	0	-58	-4	8	6
8860	4	43	49	-58	0	43	28	-59	0	6	5
8861	4	44	30	-58	0	44	14	-59	0	5	4
8862	3	67	0	-58	0	66	45	-59	0	1	4
8863	4	11	40	-59	0	11	20	-60	0	19	11
8864	3	14	0	-59	-8	13	25	-60	0	12	11
8865	3	14	7	-59	0	14	0	-59	-8	11	12
8866	3	24	22	-59	0	24	0	-59	-5	12	13
8867	3	40	47	-60	0	41	0	-59	-9	12	13
8868	3	41	0	-59	-9	41	2	-59	0	13	1
8869	4	41	34	-59	0	41	12	-60	0	12	9
8870	3	42	0	-59	-49	41	59	-60	0	8	8
8871	3	42	9	-59	0	42	0	-59	-4	9	8
8872	4	42	46	-59	0	42	19	-60	0	8	7
8873	4	43	28	-59	0	43	2	-60	0	6	5
8874	3	44	0	-59	-44	43	55	-60	0	4	4
8875	3	44	14	-59	0	44	0	-59	-4	5	4
8876	4	66	45	-59	0	66	27	-60	0	4	1
8877	4	11	20	-60	0	11	2	-61	0	19	11
8878	3	13	0	-60	-39	12	50	-61	0	12	11
8879	3	13	25	-60	0	13	0	-60	-3	11	12
8880	3	24	0	-60	-8	23	29	-61	0	13	12
8881	4	40	47	-60	0	40	27	-61	0	13	12
8882	3	41	0	-60	-32	40	51	-61	0	9	11
8883	3	41	12	-60	0	41	0	-60	-3	12	9
8884	4	41	59	-60	0	41	50	-61	0	9	8
8885	4	42	19	-60	0	42	1	-61	0	8	7
8886	3	43	0	-60	-1	42	33	-61	0	5	7
8887	3	43	2	-60	0	43	0	-60	-1	7	5
8888	4	43	55	-60	0	43	43	-61	0	5	4
8889	4	66	27	-60	0	66	8	-61	0	4	1
8890	4	12	0	-61	-17	11	0	-61	-5	11	16
8891	3	11	50	-62	0	11	0	-61	-5	17	16
8892	4	13	0	-61	-9	12	0	-61	-17	11	16
8893	4	14	0	-61	-3	13	0	-61	-9	12	16
8894	4	15	0	-61	-3	14	0	-61	-3	12	16
8895	4	16	0	-61	-24	15	0	-61	-3	12	16
8896	3	16	0	-61	-24	17	0	-62	0	16	12
8897	4	40	27	-61	0	40	5	-62	0	13	12
8898	4	40	51	-61	0	40	31	-62	0	12	9
8899	3	42	0	-61	-3	41	36	-62	0	7	9
900	3	42	1	-61	0	42	0	-61	-3	8	7

REC NO	S	LAT		LONG		LAT		LONG		AREA	
		DEG	MIN	DEG	MIN	DEG	MIN	DEG	MIN	IN	OUT
901	4	42	33	-61	0	42	8	-62	0	7	5
902	4	43	43	-61	0	43	29	-62	0	5	4
903	3	66	8	-61	0	66	0	-61	-11	4	0
904	3	11	50	-62	0	12	0	-62	-1	16	17
905	4	13	0	-62	-14	12	0	-62	-1	16	17
906	4	14	0	-62	-34	13	0	-62	-14	16	17
907	4	15	0	-62	-58	14	0	-62	-34	16	17
908	3	15	0	-62	-58	15	3	-63	0	17	16
909	3	17	1	-62	0	18	0	-62	-57	12	16
910	3	18	0	-62	-57	18	1	-63	0	16	12
911	3	40	0	-62	-12	39	38	-63	0	12	13
912	3	40	5	-62	0	40	0	-62	-12	13	12
913	4	40	31	-62	0	40	10	-63	0	12	9
914	4	41	36	-62	0	41	9	-63	0	9	7
915	3	42	0	-62	-34	41	53	-63	0	5	7
916	3	42	8	-62	0	42	0	-62	-34	7	5
917	3	15	3	-63	0	16	0	-63	-22	16	17
918	4	17	0	-63	-47	16	0	-63	-22	16	17
919	3	17	0	-63	-47	17	36	-64	0	17	16
920	4	18	1	-63	0	18	15	-64	0	16	12
921	4	39	38	-63	0	39	12	-64	0	13	12
922	3	40	0	-63	-29	39	50	-64	0	9	12
923	3	40	10	-63	0	40	0	-63	-29	12	9
924	3	41	0	-63	-23	40	47	-64	0	7	9
925	3	41	9	-63	0	41	0	-63	-23	9	7
926	4	41	53	-63	0	41	35	-64	0	7	5
927	3	17	36	-64	0	18	0	-64	-6	16	17
928	3	18	0	-64	-32	17	46	-65	0	18	17
929	4	18	15	-64	0	18	15	-65	0	18	12
930	3	22	0	-64	-2	21	42	-65	0	13	12
931	3	22	1	-64	0	22	0	-64	-2	12	13
932	3	39	0	-64	-25	38	43	-65	0	12	13
933	3	39	12	-64	0	39	0	-64	-25	13	12
934	4	39	50	-64	0	39	27	-65	0	12	9
935	4	40	47	-64	0	40	29	-65	0	9	7
936	4	41	35	-64	0	41	16	-65	0	7	5
937	3	51	10	-24	0	51	0	-24	-11	9	8
938	3	52	0	-24	-33	51	46	-25	0	7	8
939	3	64	0	-2	-24	64	42	-2	0	3	2
940	3	64	21	-2	0	65	0	-2	-40	3	2
941	3	64	0	-1	0	65	0	-1	-45	4	3
942	3	65	0	-1	0	64	0	-1	-48	4	3
943	4	61	4	-41	0	61	48	-42	0	5	6
944	3	61	0	-42	0	62	0	-41	-10	5	6
945	3	68	0	-6	0	69	0	-5	-29	3	4
946	3	69	0	-5	0	68	22	-6	0	3	4
947	3	51	0	-44	0	50	0	-44	-37	5	4
948	3	50	0	-44	0	50	52	-45	0	4	5
949	3	50	0	-41	0	49	29	-42	0	7	8
950	3	49	0	-42	0	50	0	-41	-29	7	8
951	3	35	0	-43	0	36	0	-43	-10	12	11

