

Subject

Commencement of control for SO_x and particulate matter (PM) within North American Emission Control Area under MARPOL ANNEX VI.

ClassNK

Technical Information

No. TEC-0916
Date 24 July 2012

To whom it may concern

As already advised in ClassNK Technical Information TEC-0832 issued on 11 November 2010, the control of the sulphur content in fuel oil for ships operating within the designated North American Emission Control Area (MARPOL ANNEX VI, Regulation 14) will commence on 1 August 2012. The attached MEPC.1/Circ.723 provides the boundary of the Emission Control Area. After the commencement of the sulphur control, the limit value of the sulphur content of any fuel oils used onboard ships within this area is changed from 3.50% m/m to 1.00% m/m. Therefore, at the time of bunkering, please make sure that the sulphur content of the fuel oil used onboard ship on and after that date satisfies the new limit value (1.00% m/m) unless the ship complies with this requirements through the use of an exhaust gas cleaning system or other system that is approved as equivalent in accordance with Regulation 4 of MARPOL ANNEX VI.

In addition, regarding the fuel oil changeover and International Air Pollution Prevention Certificate (hereinafter referred to as IAPP Certificate), please note the followings.

[Document of fuel oil changeover procedure and entry in log-book]

When compliance with the requirements is achieved by changing over to a low sulphur fuel oil from the fuel oil normally used, it is required that a written procedure showing how the fuel oil changeover is to be done is retained onboard the ship.

In addition, at the time of completing the fuel oil changeover before entering the Emission Control Area and at the time of starting the fuel oil changeover after exiting the area, the volume of low sulphur fuel oils in each tank as well as the date, time, and position of the ship are to be recorded in the log-book.

[Description in paragraph 2.3.2 of Supplement to IAPP Certificate]

There are the cases where any checkbox in 2.3.2 of the Supplement to the IAPP Certificate, which shows the limit values of sulphur content in fuel oils within Emission Control Areas, has not been ticked off, and the relevant Note at the end of the Supplement is indicated that the vessel is not intended to operate within Emission Control Areas.

In case where a vessel having such an IAPP Certificate is intended to operate within an Emission Control Area, it is required to replace the IAPP Certificate in order to delete the Note and tick off the relevant checkbox(es) in the paragraph.

If you wish to receive a replacement of the IAPP Certificate, please contact ClassNK, Classification Department.

(To be continued)

NOTES:

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[For questions on the relevant requirements]

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[For questions on the replacement of an IAPP Certificate]

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Attachment:

1. MEPC.1/Circ.723



E

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Ref. T5/1.01

MEPC.1/Circ.723
13 May 2010

**INFORMATION ON NORTH AMERICAN EMISSION CONTROL AREA (ECA)
UNDER MARPOL ANNEX VI**

1 The Marine Environment Protection Committee, at its sixtieth session (22 to 26 March 2010), adopted, by resolution MEPC.190(60), amendments to MARPOL Annex VI to designate the North American Emission Control Area for NO_x, SO_x and particulate matter (amendments to regulation 13, 14 and new Appendix VII).

2 MEPC 60 agreed to circulate information on the North American Emission Control Area (ECA) and requested the Secretariat to disseminate the information as an MEPC Circular.

3 The new appendix VII to MARPOL Annex VI contains the definition and boundaries with the full coordinates of the North American ECA, which is based on the "North American Datum of 1983/World Geodetic System 1984 (NAD83/WGS84)". Diagrams showing geographical distribution of the North American ECA are set out in annex 1 to this circular, and the full list of coordinates may be found in annex 2 to this circular.

4 The above amendments are expected to enter into force on 1 August 2011, upon their deemed acceptance on 1 February 2011.

5 In accordance with the provisions of regulation 14.7 of MARPOL Annex VI, ships operating in the North American ECA are exempted from the requirements for SO_x and particulate matter during the first twelve months after entry into force. Therefore, the requirements within the North American ECA for SO_x and particulate matter will be effective on 1 August 2012.

6 While ships are operating in the North American ECA, the sulphur content of fuel oil used on board ships shall not exceed 1.00% m/m on and after 1 August 2012, and 0.10% m/m on and after 1 January 2015.

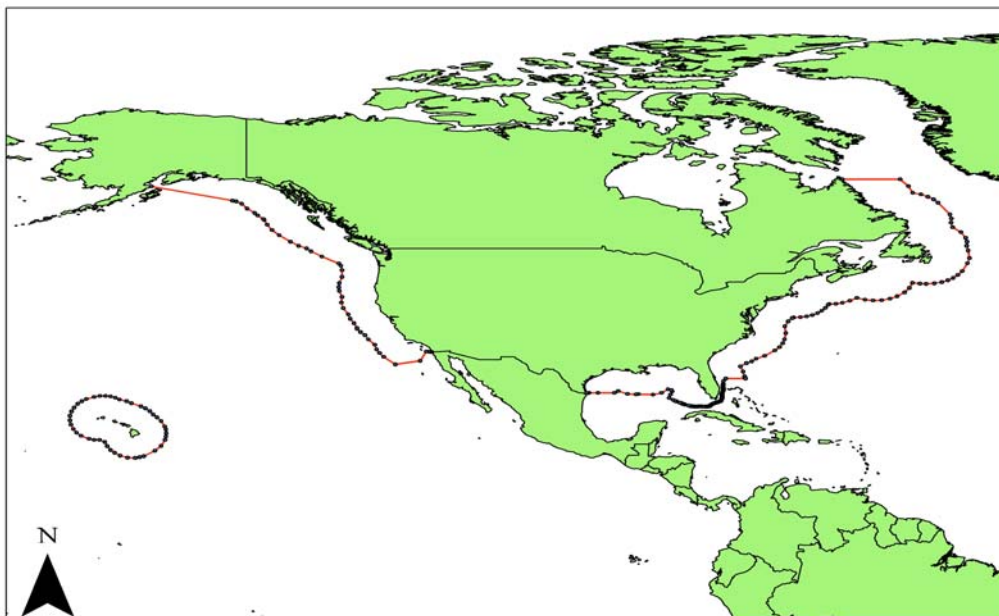
7 Ships constructed on or after 1 January 2016 shall comply with the NO_x emission limits specified in regulation 13.5.1.1, when operating within the North American ECA.

8 Member Governments are invited to bring this circular to the attention of their Administrations, relevant shipping organizations, recognized organizations, shipping companies and other stakeholders concerned.

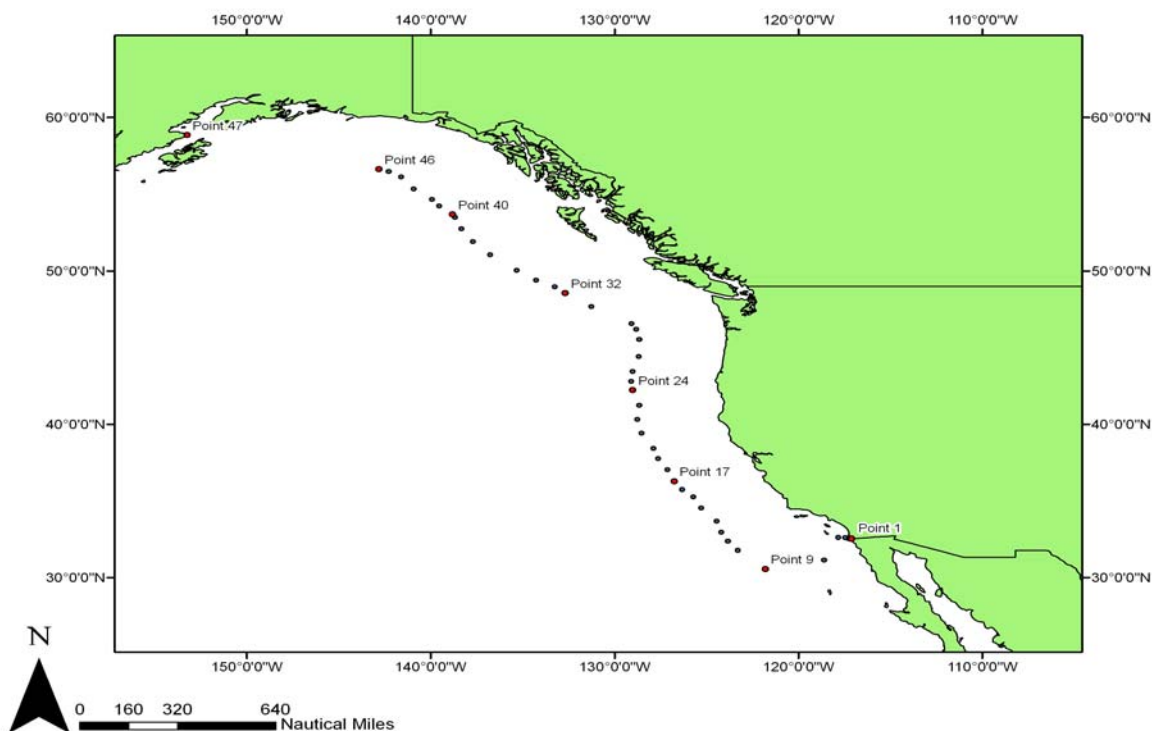
ANNEX 1

**GEOGRAPHICAL DISTRIBUTION OF THE NORTH AMERICAN
EMISSION CONTROL AREA**

- 1 General view of the North American Emission Control Area

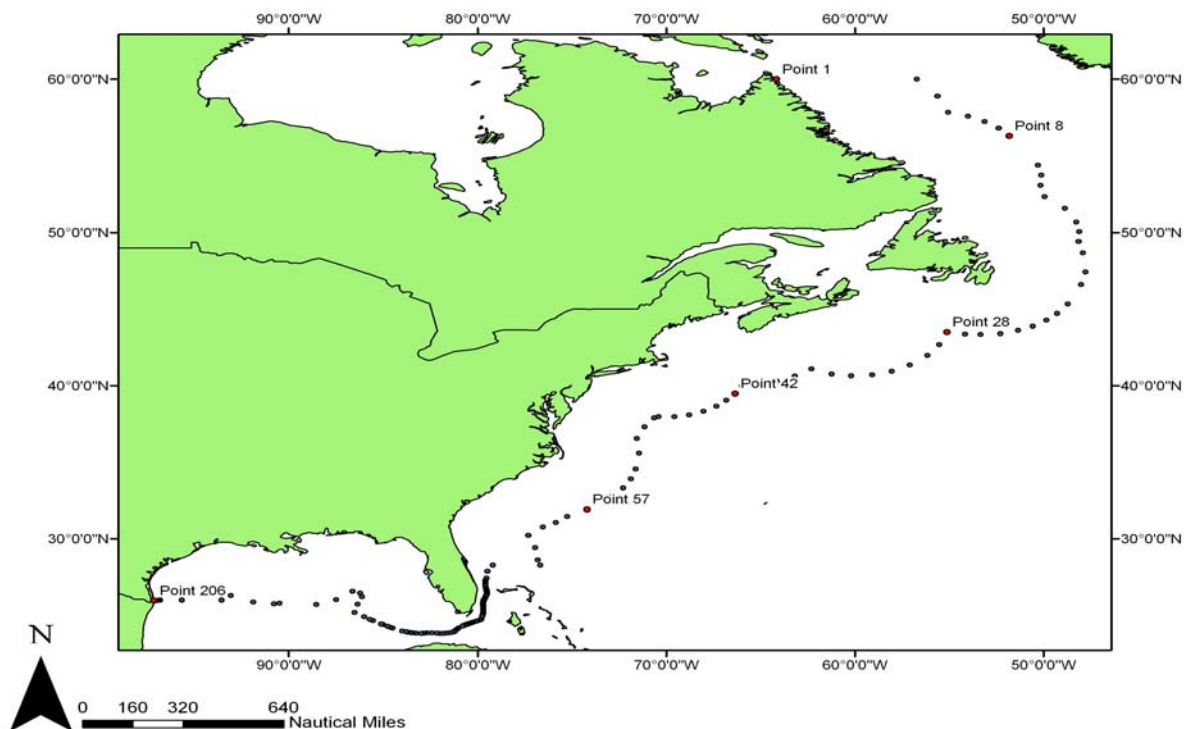


- 2 Magnified view of the Pacific coast



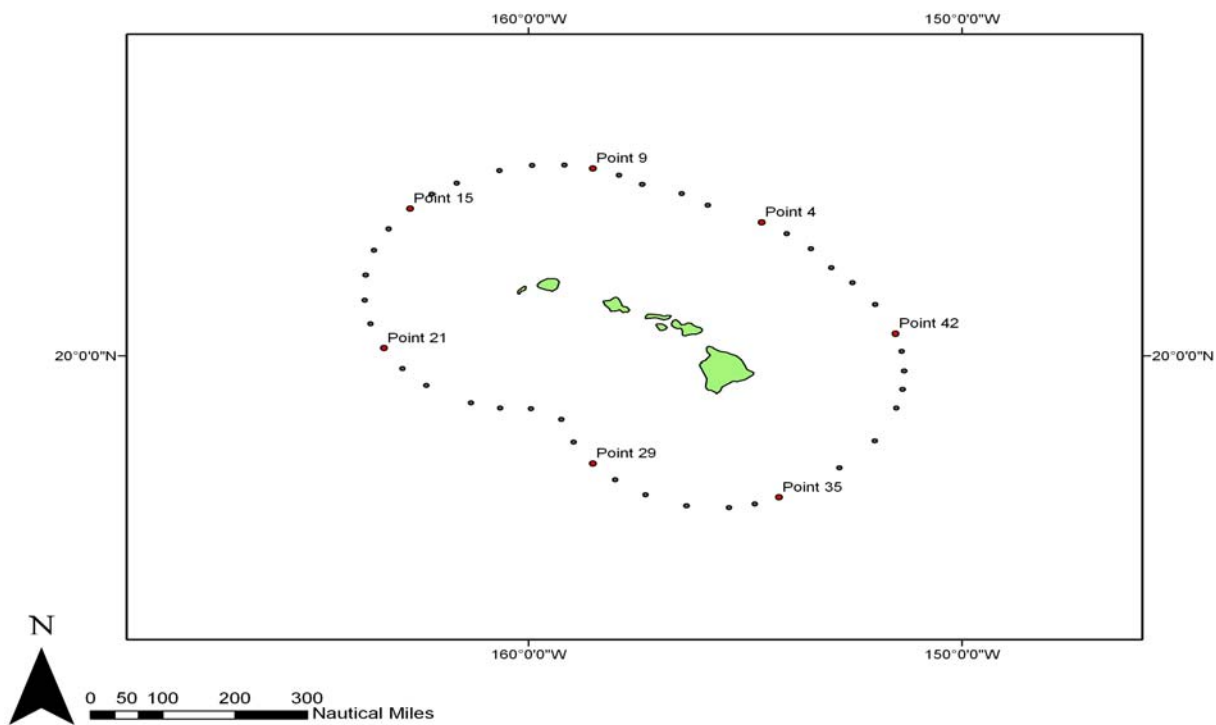
Note: The points correspond to the list of coordinates in paragraph 1 of annex 2.

3 Magnified view of the Atlantic coast and the Gulf of Mexico coast



Note: The points correspond to the list of coordinates in paragraph 2 of annex 2.

4 Magnified view of the Hawaiian Islands



Note: The points correspond to the list of coordinates in paragraph 3 of annex 2.

ANNEX 2

NEW APPENDIX VII TO MARPOL ANNEX VI

The North American area comprises:

- 1 the sea area located off the **Pacific coasts** of the United States and Canada, enclosed by geodesic lines connecting the following coordinates:

POINT	LATITUDE	LONGITUDE
1	32° 32' 10" N.	117° 06' 11" W.
2	32° 32' 04" N.	117° 07' 29" W.
3	32° 31' 39" N.	117° 14' 20" W.
4	32° 33' 13" N.	117° 15' 50" W.
5	32° 34' 21" N.	117° 22' 01" W.
6	32° 35' 23" N.	117° 27' 53" W.
7	32° 37' 38" N.	117° 49' 34" W.
8	31° 07' 59" N.	118° 36' 21" W.
9	30° 33' 25" N.	121° 47' 29" W.
10	31° 46' 11" N.	123° 17' 22" W.
11	32° 21' 58" N.	123° 50' 44" W.
12	32° 56' 39" N.	124° 11' 47" W.
13	33° 40' 12" N.	124° 27' 15" W.
14	34° 31' 28" N.	125° 16' 52" W.
15	35° 14' 38" N.	125° 43' 23" W.
16	35° 43' 60" N.	126° 18' 53" W.
17	36° 16' 25" N.	126° 45' 30" W.
18	37° 01' 35" N.	127° 07' 18" W.
19	37° 45' 39" N.	127° 38' 02" W.
20	38° 25' 08" N.	127° 52' 60" W.
21	39° 25' 05" N.	128° 31' 23" W.
22	40° 18' 47" N.	128° 45' 46" W.
23	41° 13' 39" N.	128° 40' 22" W.
24	42° 12' 49" N.	129° 00' 38" W.
25	42° 47' 34" N.	129° 05' 42" W.
26	43° 26' 22" N.	129° 01' 26" W.
27	44° 24' 43" N.	128° 41' 23" W.
28	45° 30' 43" N.	128° 40' 02" W.
29	46° 11' 01" N.	128° 49' 01" W.
30	46° 33' 55" N.	129° 04' 29" W.
31	47° 39' 55" N.	131° 15' 41" W.
32	48° 32' 32" N.	132° 41' 00" W.
33	48° 57' 47" N.	133° 14' 47" W.
34	49° 22' 39" N.	134° 15' 51" W.
35	50° 01' 52" N.	135° 19' 01" W.
36	51° 03' 18" N.	136° 45' 45" W.
37	51° 54' 04" N.	137° 41' 54" W.
38	52° 45' 12" N.	138° 20' 14" W.
39	53° 29' 20" N.	138° 40' 36" W.
40	53° 40' 39" N.	138° 48' 53" W.
41	54° 13' 45" N.	139° 32' 38" W.
42	54° 39' 25" N.	139° 56' 19" W.
43	55° 20' 18" N.	140° 55' 45" W.
44	56° 07' 12" N.	141° 36' 18" W.
45	56° 28' 32" N.	142° 17' 19" W.
46	56° 37' 19" N.	142° 48' 57" W.
47	58° 51' 04" N.	153° 15' 03" W.

- 2 the sea areas located off the **Atlantic coasts** of the United States, Canada, and France (Saint-Pierre-et-Miquelon) and the **Gulf of Mexico coast** of the United States enclosed by geodesic lines connecting the following coordinates:

POINT	LATITUDE	LONGITUDE
1	60° 00' 00" N.	64° 09' 36" W.
2	60° 00' 00" N.	56° 43' 00" W.
3	58° 54' 01" N.	55° 38' 05" W.
4	57° 50' 52" N.	55° 03' 47" W.
5	57° 35' 13" N.	54° 00' 59" W.
6	57° 14' 20" N.	53° 07' 58" W.
7	56° 48' 09" N.	52° 23' 29" W.
8	56° 18' 13" N.	51° 49' 42" W.
9	54° 23' 21" N.	50° 17' 44" W.
10	53° 44' 54" N.	50° 07' 17" W.
11	53° 04' 59" N.	50° 10' 05" W.
12	52° 20' 06" N.	49° 57' 09" W.
13	51° 34' 20" N.	48° 52' 45" W.
14	50° 40' 15" N.	48° 16' 04" W.
15	50° 02' 28" N.	48° 07' 03" W.
16	49° 24' 03" N.	48° 09' 35" W.
17	48° 39' 22" N.	47° 55' 17" W.
18	47° 24' 25" N.	47° 46' 56" W.
19	46° 35' 12" N.	48° 00' 54" W.
20	45° 19' 45" N.	48° 43' 28" W.
21	44° 43' 38" N.	49° 16' 50" W.
22	44° 16' 38" N.	49° 51' 23" W.
23	43° 53' 15" N.	50° 34' 01" W.
24	43° 36' 06" N.	51° 20' 41" W.
25	43° 23' 59" N.	52° 17' 22" W.
26	43° 19' 50" N.	53° 20' 13" W.
27	43° 21' 14" N.	54° 09' 20" W.
28	43° 29' 41" N.	55° 07' 41" W.
29	42° 40' 12" N.	55° 31' 44" W.
30	41° 58' 19" N.	56° 09' 34" W.
31	41° 20' 21" N.	57° 05' 13" W.
32	40° 55' 34" N.	58° 02' 55" W.
33	40° 41' 38" N.	59° 05' 18" W.
34	40° 38' 33" N.	60° 12' 20" W.
35	40° 45' 46" N.	61° 14' 03" W.
36	41° 04' 52" N.	62° 17' 49" W.
37	40° 36' 55" N.	63° 10' 49" W.
38	40° 17' 32" N.	64° 08' 37" W.
39	40° 07' 46" N.	64° 59' 31" W.
40	40° 05' 44" N.	65° 53' 07" W.
41	39° 58' 05" N.	65° 59' 51" W.
42	39° 28' 24" N.	66° 21' 14" W.
43	39° 01' 54" N.	66° 48' 33" W.
44	38° 39' 16" N.	67° 20' 59" W.
45	38° 19' 20" N.	68° 02' 01" W.
46	38° 05' 29" N.	68° 46' 55" W.
47	37° 58' 14" N.	69° 34' 07" W.
48	37° 57' 47" N.	70° 24' 09" W.

POINT	LATITUDE	LONGITUDE
49	37° 52' 46" N.	70° 37' 50" W.
50	37° 18' 37" N.	71° 08' 33" W.
51	36° 32' 25" N.	71° 33' 59" W.
52	35° 34' 58" N.	71° 26' 02" W.
53	34° 33' 10" N.	71° 37' 04" W.
54	33° 54' 49" N.	71° 52' 35" W.
55	33° 19' 23" N.	72° 17' 12" W.
56	32° 45' 31" N.	72° 54' 05" W.
57	31° 55' 13" N.	74° 12' 02" W.
58	31° 27' 14" N.	75° 15' 20" W.
59	31° 03' 16" N.	75° 51' 18" W.
60	30° 45' 42" N.	76° 31' 38" W.
61	30° 12' 48" N.	77° 18' 29" W.
62	29° 25' 17" N.	76° 56' 42" W.
63	28° 36' 59" N.	76° 47' 60" W.
64	28° 17' 13" N.	76° 40' 10" W.
65	28° 17' 12" N.	79° 11' 23" W.
66	27° 52' 56" N.	79° 28' 35" W.
67	27° 26' 01" N.	79° 31' 38" W.
68	27° 16' 13" N.	79° 34' 18" W.
69	27° 11' 54" N.	79° 34' 56" W.
70	27° 05' 59" N.	79° 35' 19" W.
71	27° 00' 28" N.	79° 35' 17" W.
72	26° 55' 16" N.	79° 34' 39" W.
73	26° 53' 58" N.	79° 34' 27" W.
74	26° 45' 46" N.	79° 32' 41" W.
75	26° 44' 30" N.	79° 32' 23" W.
76	26° 43' 40" N.	79° 32' 20" W.
77	26° 41' 12" N.	79° 32' 01" W.
78	26° 38' 13" N.	79° 31' 32" W.
79	26° 36' 30" N.	79° 31' 06" W.
80	26° 35' 21" N.	79° 30' 50" W.
81	26° 34' 51" N.	79° 30' 46" W.
82	26° 34' 11" N.	79° 30' 38" W.
83	26° 31' 12" N.	79° 30' 15" W.
84	26° 29' 05" N.	79° 29' 53" W.
85	26° 25' 31" N.	79° 29' 58" W.
86	26° 23' 29" N.	79° 29' 55" W.
87	26° 23' 21" N.	79° 29' 54" W.
88	26° 18' 57" N.	79° 31' 55" W.
89	26° 15' 26" N.	79° 33' 17" W.
90	26° 15' 13" N.	79° 33' 23" W.
91	26° 08' 09" N.	79° 35' 53" W.
92	26° 07' 47" N.	79° 36' 09" W.
93	26° 06' 59" N.	79° 36' 35" W.
94	26° 02' 52" N.	79° 38' 22" W.
95	25° 59' 30" N.	79° 40' 03" W.
96	25° 59' 16" N.	79° 40' 08" W.
97	25° 57' 48" N.	79° 40' 38" W.
98	25° 56' 18" N.	79° 41' 06" W.
99	25° 54' 04" N.	79° 41' 38" W.
100	25° 53' 24" N.	79° 41' 46" W.
101	25° 51' 54" N.	79° 41' 59" W.

POINT	LATITUDE	LONGITUDE
102	25° 49' 33" N.	79° 42' 16" W.
103	25° 48' 24" N.	79° 42' 23" W.
104	25° 48' 20" N.	79° 42' 24" W.
105	25° 46' 26" N.	79° 42' 44" W.
106	25° 46' 16" N.	79° 42' 45" W.
107	25° 43' 40" N.	79° 42' 59" W.
108	25° 42' 31" N.	79° 42' 48" W.
109	25° 40' 37" N.	79° 42' 27" W.
110	25° 37' 24" N.	79° 42' 27" W.
111	25° 37' 08" N.	79° 42' 27" W.
112	25° 31' 03" N.	79° 42' 12" W.
113	25° 27' 59" N.	79° 42' 11" W.
114	25° 24' 04" N.	79° 42' 12" W.
115	25° 22' 21" N.	79° 42' 20" W.
116	25° 21' 29" N.	79° 42' 08" W.
117	25° 16' 52" N.	79° 41' 24" W.
118	25° 15' 57" N.	79° 41' 31" W.
119	25° 10' 39" N.	79° 41' 31" W.
120	25° 09' 51" N.	79° 41' 36" W.
121	25° 09' 03" N.	79° 41' 45" W.
122	25° 03' 55" N.	79° 42' 29" W.
123	25° 02' 60" N.	79° 42' 56" W.
124	25° 00' 30" N.	79° 44' 05" W.
125	24° 59' 03" N.	79° 44' 48" W.
126	24° 55' 28" N.	79° 45' 57" W.
127	24° 44' 18" N.	79° 49' 24" W.
128	24° 43' 04" N.	79° 49' 38" W.
129	24° 42' 36" N.	79° 50' 50" W.
130	24° 41' 47" N.	79° 52' 57" W.
131	24° 38' 32" N.	79° 59' 58" W.
132	24° 36' 27" N.	80° 03' 51" W.
133	24° 33' 18" N.	80° 12' 43" W.
134	24° 33' 05" N.	80° 13' 21" W.
135	24° 32' 13" N.	80° 15' 16" W.
136	24° 31' 27" N.	80° 16' 55" W.
137	24° 30' 57" N.	80° 17' 47" W.
138	24° 30' 14" N.	80° 19' 21" W.
139	24° 30' 06" N.	80° 19' 44" W.
140	24° 29' 38" N.	80° 21' 05" W.
141	24° 28' 18" N.	80° 24' 35" W.
142	24° 28' 06" N.	80° 25' 10" W.
143	24° 27' 23" N.	80° 27' 20" W.
144	24° 26' 30" N.	80° 29' 30" W.
145	24° 25' 07" N.	80° 32' 22" W.
146	24° 23' 30" N.	80° 36' 09" W.
147	24° 22' 33" N.	80° 38' 56" W.
148	24° 22' 07" N.	80° 39' 51" W.
149	24° 19' 31" N.	80° 45' 21" W.
150	24° 19' 16" N.	80° 45' 47" W.
151	24° 18' 38" N.	80° 46' 49" W.
152	24° 18' 35" N.	80° 46' 54" W.
153	24° 09' 51" N.	80° 59' 47" W.
154	24° 09' 48" N.	80° 59' 51" W.

POINT	LATITUDE	LONGITUDE
155	24° 08' 58" N.	81° 01' 07" W.
156	24° 08' 30" N.	81° 01' 51" W.
157	24° 08' 26" N.	81° 01' 57" W.
158	24° 07' 28" N.	81° 03' 06" W.
159	24° 02' 20" N.	81° 09' 05" W.
160	23° 59' 60" N.	81° 11' 16" W.
161	23° 55' 32" N.	81° 12' 55" W.
162	23° 53' 52" N.	81° 19' 43" W.
163	23° 50' 52" N.	81° 29' 59" W.
164	23° 50' 02" N.	81° 39' 59" W.
165	23° 49' 05" N.	81° 49' 59" W.
166	23° 49' 05" N.	82° 00' 11" W.
167	23° 49' 42" N.	82° 09' 59" W.
168	23° 51' 14" N.	82° 24' 59" W.
169	23° 51' 14" N.	82° 39' 59" W.
170	23° 49' 42" N.	82° 48' 53" W.
171	23° 49' 32" N.	82° 51' 11" W.
172	23° 49' 24" N.	82° 59' 59" W.
173	23° 49' 52" N.	83° 14' 59" W.
174	23° 51' 22" N.	83° 25' 49" W.
175	23° 52' 27" N.	83° 33' 01" W.
176	23° 54' 04" N.	83° 41' 35" W.
177	23° 55' 47" N.	83° 48' 11" W.
178	23° 58' 38" N.	83° 59' 59" W.
179	24° 09' 37" N.	84° 29' 27" W.
180	24° 13' 20" N.	84° 38' 39" W.
181	24° 16' 41" N.	84° 46' 07" W.
182	24° 23' 30" N.	84° 59' 59" W.
183	24° 26' 37" N.	85° 06' 19" W.
184	24° 38' 57" N.	85° 31' 54" W.
185	24° 44' 17" N.	85° 43' 11" W.
186	24° 53' 57" N.	85° 59' 59" W.
187	25° 10' 44" N.	86° 30' 07" W.
188	25° 43' 15" N.	86° 21' 14" W.
189	26° 13' 13" N.	86° 06' 45" W.
190	26° 27' 22" N.	86° 13' 15" W.
191	26° 33' 46" N.	86° 37' 07" W.
192	26° 01' 24" N.	87° 29' 35" W.
193	25° 42' 25" N.	88° 33' 00" W.
194	25° 46' 54" N.	90° 29' 41" W.
195	25° 44' 39" N.	90° 47' 05" W.
196	25° 51' 43" N.	91° 52' 50" W.
197	26° 17' 44" N.	93° 03' 59" W.
198	25° 59' 55" N.	93° 33' 52" W.
199	26° 00' 32" N.	95° 39' 27" W.
200	26° 00' 33" N.	96° 48' 30" W.
201	25° 58' 32" N.	96° 55' 28" W.
202	25° 58' 15" N.	96° 58' 41" W.
203	25° 57' 58" N.	97° 01' 54" W.
204	25° 57' 41" N.	97° 05' 08" W.
205	25° 57' 24" N.	97° 08' 21" W.
206	25° 57' 24" N.	97° 08' 47" W.

- 3 the sea area located off the coasts of the **Hawaiian Islands** of Hawai'i, Maui, Oahu, Moloka'i, Ni'ihau, Kaua'i, Lāna'i, and Kaho'olawe, enclosed by geodesic lines connecting the following coordinates:

POINT	LATITUDE	LONGITUDE
1	22° 32' 54" N.	153° 00' 33" W.
2	23° 06' 05" N.	153° 28' 36" W.
3	23° 32' 11" N.	154° 02' 12" W.
4	23° 51' 47" N.	154° 36' 48" W.
5	24° 21' 49" N.	155° 51' 13" W.
6	24° 41' 47" N.	156° 27' 27" W.
7	24° 57' 33" N.	157° 22' 17" W.
8	25° 13' 41" N.	157° 54' 13" W.
9	25° 25' 31" N.	158° 30' 36" W.
10	25° 31' 19" N.	159° 09' 47" W.
11	25° 30' 31" N.	159° 54' 21" W.
12	25° 21' 53" N.	160° 39' 53" W.
13	25° 00' 06" N.	161° 38' 33" W.
14	24° 40' 49" N.	162° 13' 13" W.
15	24° 15' 53" N.	162° 43' 08" W.
16	23° 40' 50" N.	163° 13' 00" W.
17	23° 03' 20" N.	163° 32' 58" W.
18	22° 20' 09" N.	163° 44' 41" W.
19	21° 36' 45" N.	163° 46' 03" W.
20	20° 55' 26" N.	163° 37' 44" W.
21	20° 13' 34" N.	163° 19' 13" W.
22	19° 39' 03" N.	162° 53' 48" W.
23	19° 09' 43" N.	162° 20' 35" W.
24	18° 39' 16" N.	161° 19' 14" W.
25	18° 30' 31" N.	160° 38' 30" W.
26	18° 29' 31" N.	159° 56' 17" W.
27	18° 10' 41" N.	159° 14' 08" W.
28	17° 31' 17" N.	158° 56' 55" W.
29	16° 54' 06" N.	158° 30' 29" W.
30	16° 25' 49" N.	157° 59' 25" W.
31	15° 59' 57" N.	157° 17' 35" W.
32	15° 40' 37" N.	156° 21' 06" W.
33	15° 37' 36" N.	155° 22' 16" W.
34	15° 43' 46" N.	154° 46' 37" W.
35	15° 55' 32" N.	154° 13' 05" W.
36	16° 46' 27" N.	152° 49' 11" W.
37	17° 33' 42" N.	152° 00' 32" W.
38	18° 30' 16" N.	151° 30' 24" W.
39	19° 02' 47" N.	151° 22' 17" W.
40	19° 34' 46" N.	151° 19' 47" W.
41	20° 07' 42" N.	151° 22' 58" W.
42	20° 38' 43" N.	151° 31' 36" W.
43	21° 29' 09" N.	151° 59' 50" W.
44	22° 06' 58" N.	152° 31' 25" W.
45	22° 32' 54" N.	153° 00' 33" W.