

# DRAFT 1

## The following are 1<sup>ST</sup> DRAFT coordinates for the final regulations of the IMO-approved North American ECA

.1 The North American emission control areas, which means <sup>1</sup>:

<sup>1</sup> Unless otherwise specified, all coordinates listed are in World Geodetic System 1984 (WGS84) and the term “straight line” means geodesic line.

Along the Pacific coast of the United States (including southeastern Alaska) and Canada, the limit of the ECA is defined by geodesic lines connecting the following coordinates (in NAD83/WGS84):

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

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40. 53-40-39N. 138-48-53W
41. 54-13-45N. 139-32-38W
42. 54-39-25N. 139-56-19W
43. 55-20-18N. 140-55-45W
44. 56-07-12N. 141-36-18W
45. 56-28-32N. 142-17-19W
46. 56-37-19N. 142-48-57W
47. 58-51-04N. 153-15-03 W

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Along the Atlantic coast of Canada and the United States, the limit of the ECA is defined by a geodesic line drawn between 60°00'00"N, 64°09'36"W and 60°00'00"N, 56°43'00"W, thence continuing south connecting the following coordinates using geodesic lines through the Gulf of Mexico (in WGS84/NAD83):

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

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46. 38-05-29N,068-46-55W
47. 37-58-14N,069-34-07W
48. 37-57-47N,070-24-09W
49. 37-52-46N,070-37-50W
50. 37-18-37N,071-08-33W
51. 36-32-25N,071-33-59W
52. 35-34-58N,071-26-02W
53. 34-33-10N,071-37-04W
54. 33-54-49N,071-52-35W
55. 33-19-23N,072-17-12W
56. 32-45-31N,072-54-05W
57. 31-55-13N,074-12-02W
58. 31-27-14N,075-15-20W
59. 31-03-16N,075-51-18W
60. 30-45-42N,076-31-38W
61. 30-12-48N,077-18-29W
62. 29-25-17N,076-56-42W
63. 28-36-59N,076-47-60W
64. 28-17-13N,076-40-10W
65. 28-17-12N,079-11-23W
66. 27-52-56N,079-28-35W
67. 27-26-01N,079-31-38W
68. 27-16-13N,079-34-18W
69. 27-11-54N,079-34-56W
70. 27-05-59N,079-35-19W
71. 27-00-28N,079-35-17W
72. 26-55-16N,079-34-39W
73. 26-53-58N,079-34-27W
74. 26-45-46N,079-32-41W
75. 26-44-30N,079-32-23W
76. 26-43-40N,079-32-20W
77. 26-41-12N,079-32-01W
78. 26-38-13N,079-31-32W
79. 26-36-30N,079-31-06W
80. 26-35-21N,079-30-50W
81. 26-34-51N,079-30-46W
82. 26-34-11N,079-30-38W
83. 26-31-12N,079-30-15W
84. 26-29-05N,079-29-53W
85. 26-25-31N,079-29-58W
86. 26-23-29N,079-29-55W
87. 26-23-21N,079-29-54W
88. 26-18-57N,079-31-55W
89. 26-15-26N,079-33-17W
90. 26-15-13N,079-33-23W
91. 26-08-09N,079-35-53W
92. 26-07-47N,079-36-09W
93. 26-06-59N,079-36-35W
94. 26-02-52N,079-38-22W
95. 25-59-30N,079-40-03W
96. 25-59-16N,079-40-08W

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97. 25-57-48N,079-40-38W
98. 25-56-18N,079-41-06W
99. 25-54-04N,079-41-38W
100. 25-53-24N,079-41-46W
101. 25-51-54N,079-41-59W
102. 25-49-33N,079-42-16W
103. 25-48-24N,079-42-23W
104. 25-48-20N,079-42-24W
105. 25-46-26N,079-42-44W
106. 25-46-16N,079-42-45W
107. 25-43-40N,079-42-59W
108. 25-42-31N,079-42-48W
109. 25-40-37N,079-42-27W
110. 25-37-24N,079-42-27W
111. 25-37-08N,079-42-27W
112. 25-31-03N,079-42-12W
113. 25-27-59N,079-42-11W
114. 25-24-04N,079-42-12W
115. 25-22-21N,079-42-20W
116. 25-21-29N,079-42-08W
117. 25-16-52N,079-41-24W
118. 25-15-57N,079-41-31W
119. 25-10-39N,079-41-31W
120. 25-09-51N,079-41-36W
121. 25-09-03N,079-41-45W
122. 25-03-55N,079-42-29W
123. 25-02-60N,079-42-56W
124. 25-00-30N,079-44-05W
125. 24-59-03N,079-44-48W
126. 24-55-28N,079-45-57W
127. 24-44-18N,079-49-24W
128. 24-43-04N,079-49-38W
129. 24-42-36N,079-50-50W
130. 24-41-47N,079-52-57W
131. 24-38-32N,079-59-58W
132. 24-36-27N,080-03-51W
133. 24-33-18N,080-12-43W
134. 24-33-05N,080-13-21W
135. 24-32-13N,080-15-16W
136. 24-31-27N,080-16-55W
137. 24-30-57N,080-17-47W
138. 24-30-14N,080-19-21W
139. 24-30-06N,080-19-44W
140. 24-29-38N,080-21-05W
141. 24-28-18N,080-24-35W
142. 24-28-06N,080-25-10W
143. 24-27-23N,080-27-20W
144. 24-26-30N,080-29-30W
145. 24-25-07N,080-32-22W
146. 24-23-30N,080-36-09W
147. 24-22-33N,080-38-56W

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148. 24-22-07N,080-39-51W
149. 24-19-31N,080-45-21W
150. 24-19-16N,080-45-47W
151. 24-18-38N,080-46-49W
152. 24-18-35N,080-46-54W
153. 24-09-51N,080-59-47W
154. 24-09-48N,080-59-51W
155. 24-08-58N,081-01-07W
156. 24-08-30N,081-01-51W
157. 24-08-26N,081-01-57W
158. 24-07-28N,081-03-06W
159. 24-02-20N,081-09-05W
160. 23-59-60N,081-11-16W
161. 23-55-32N,081-12-55W
162. 23-53-52N,081-19-43W
163. 23-50-52N,081-29-59W
164. 23-50-02N,081-39-59W
165. 23-49-05N,081-49-59W
166. 23-49-05N,082-00-11W
167. 23-49-42N,082-09-59W
168. 23-51-14N,082-24-59W
169. 23-51-14N,082-39-59W
170. 23-49-42N,082-48-53W
171. 23-49-32N,082-51-11W
172. 23-49-24N,082-59-59W
173. 23-49-52N,083-14-59W
174. 23-51-22N,083-25-49W
175. 23-52-27N,083-33-01W
176. 23-54-04N,083-41-35W
177. 23-55-47N,083-48-11W
178. 23-58-38N,083-59-59W
179. 24-09-37N,084-29-27W
180. 24-13-20N,084-38-39W
181. 24-16-41N,084-46-07W
182. 24-23-30N,084-59-59W
183. 24-26-37N,085-06-19W
184. 24-38-57N,085-31-54W
185. 24-44-17N,085-43-11W
186. 24-53-57N,085-59-59W
187. 25-10-44N,086-30-07W
188. 25-43-15N,086-21-14W
189. 26-13-13N,086-06-45W
190. 26-27-22N,086-13-15W
191. 26-33-46N,086-37-07W
192. 26-01-24N,087-29-35W
193. 25-42-25N,088-33-00W
194. 25-46-54N,090-29-41W
195. 25-44-39N,090-47-05W
196. 25-51-43N,091-52-50W
197. 26-17-44N,093-03-59W
198. 25-59-55N,093-33-52W

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- 199. 26-00-32N,095-39-27W
- 200. 26-00-33N,096-48-30W
- 201. 25-58-32N,096-55-28W
- 202. 25-58-15N,096-58-41W
- 203. 25-57-58N,097-01-54W
- 204. 25-57-41N,097-05-08W
- 205. 25-57-24N,097-08-21W
- 206. 25-57-24N,097-08-47W

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In the area off the coasts of the Hawai'ian Islands of Hawai'i, Maui, Oahu, Moloka'i, Ni'ihau, Kaua'i, Lāna'i, and Kaho'olawe, the limit of the ECA shall be determined by straight lines connecting the following coordinates:

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