



**MARITIME AND PORT AUTHORITY OF SINGAPORE**  
**SHIPPING CIRCULAR TO SHIPOWNERS**  
**NO. 21 OF 2013**

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**Applicable to:** Ship owners, managers, operators, masters, crew members, surveyors, marine fuel suppliers and the Shipping and Bunkering Community.

**ENTRY INTO EFFECT OF THE UNITED STATES CARIBBEAN SEA  
EMISSION CONTROL AREA UNDER MARPOL ANNEX VI**

1. This circular reminds the Shipping Community on the entry into effect of the United States Caribbean Sea Emission Control Area (ECA) under MARPOL Annex VI and urges the Community to take early actions for compliance to the regulations.
2. [Shipping Circular No. 20 of 2011](#) had drawn the attention of the Shipping Community to the designation of the US Caribbean Sea ECA by amendments to MARPOL Annex VI through Resolution MEPC.202(62). As informed in [Shipping Circular No. 20 of 2012](#), the amendments entered into force on 1 January 2013. In accordance with Regulation 14.7 of MARPOL Annex VI, the requirements will take effect 12 months immediately following the designation of the ECA (i.e. 1 January 2014).
3. From 1 January 2014, all ships operating within the US Caribbean Sea ECA shall only use fuel oil with sulphur content not exceeding 1.00% m/m, and from 1 January 2015, fuel with sulphur content not exceeding 0.10% m/m.
4. Shipowners and operators are advised to ensure that the absolute sulphur content of fuel oil used onboard ships does not exceed the limits as required under Regulation 14.4 of MARPOL Annex VI. Shipowners are also advised to properly maintain clear entries in the Oil Record Book and ensure the BDN is in good order as documentary proof of vessel's compliance to the requirements. For ships using separate fuel oils to comply with the ECA requirements, proper

changeover procedures for entry into an ECA shall be carried and implemented in accordance to Regulation 14.6 of MARPOL Annex VI.

5. Further information on the exact coordinates and map of the US Caribbean Sea ECA can be found at Circular [MEPC.1/Circ.755](#).

6. Any queries relating to this circular should be directed to Mr Princet Ang (Tel: 6375 6259).

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MEPC.1/Circ.755  
2 November 2011

**INFORMATION ON THE UNITED STATES CARIBBEAN SEA  
EMISSION CONTROL AREA UNDER MARPOL ANNEX VI**

1 The Marine Environment Protection Committee, at its sixty-second session (11 to 15 July 2011), adopted, by resolution MEPC.202(62), amendments to MARPOL Annex VI to designate the United States Caribbean Sea Emission Control Area for NO<sub>x</sub>, SO<sub>x</sub> and particulate matter (amendments to regulations 13, 14 and Appendix VII).

2 MEPC 62 agreed to circulate information on the United States Caribbean Sea Emission Control Area (ECA) and requested the Secretariat to disseminate the information as an MEPC Circular (MEPC 62/24, paragraph 6.37.7).

3 Appendix VII to MARPOL Annex VI contains the definition and boundaries with the full coordinates of the United States Caribbean Sea ECA, which is based on the "North American Datum of 1983/World Geodetic System 1984 (NAD83/WGS84)". Diagrams showing the geographical distribution of the United States Caribbean Sea 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 January 2013, upon their deemed acceptance on 1 July 2012.

5 In accordance with the provisions of regulation 14.7 of MARPOL Annex VI, the requirements within the United States Caribbean Sea ECA for SO<sub>x</sub> and particulate matter will be effective on 1 January 2014.

6 While ships are operating in the United States Caribbean Sea ECA, the sulphur content of fuel oil used on board ships shall not exceed 1.00% m/m on and after 1 January 2014, and 0.10% m/m on and after 1 January 2015. For ships, built on or before 1 August 2011, that are powered by propulsion boilers that were not originally designed for continued operation on marine distillate fuel or natural gas, the above sulphur requirements may not be applied prior to 1 January 2020 (regulation 14.4.4 of MARPOL Annex VI).

7 Ships constructed on or after 1 January 2016 shall comply with the NO<sub>x</sub> emission limits specified in regulation 13.5.1.1, when operating within the United States Caribbean Sea ECA.

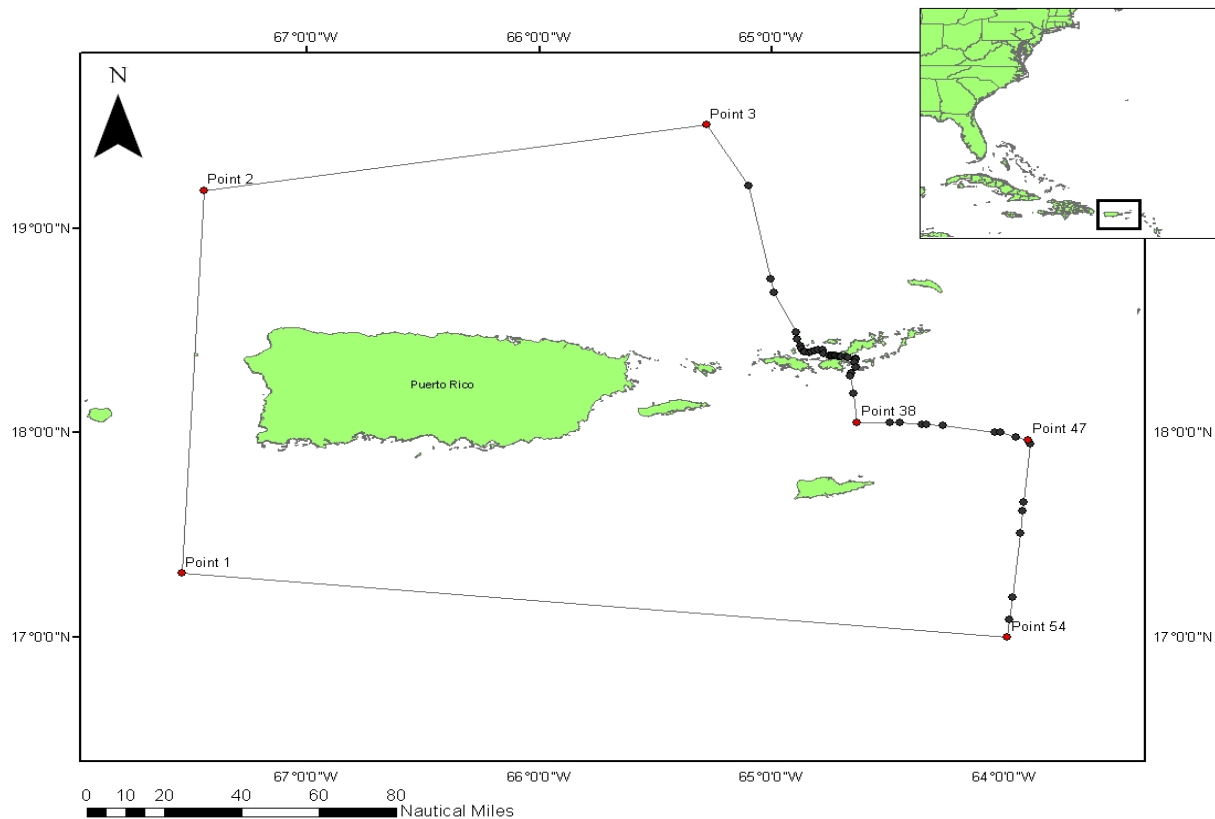
8 Member Governments are invited to bring this circular to the attention of their Administrations, relevant shipping organizations, recognized organizations, shipping companies and other stakeholders concerned.

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## ANNEX 1

### GEOGRAPHICAL DISTRIBUTION OF THE UNITED STATES CARIBBEAN SEA EMISSION CONTROL AREA



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

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**ANNEX 2****LIST OF COORDINATES FOR THE UNITED STATES CARIBBEAN SEA  
EMISSION CONTROL AREA**

The United States Caribbean Sea area includes the sea area located off the Atlantic and Caribbean coasts of the Commonwealth of Puerto Rico and the United States Virgin Islands, enclosed by geodesic lines connecting the following coordinates:

<b>POINT</b>	<b>LATITUDE</b>	<b>LONGITUDE</b>	<b>POINT</b>	<b>LATITUDE</b>	<b>LONGITUDE</b>
1	17° 18' 37" N.	67° 32' 14" W.	29	18° 21' 57" N.	64° 40' 60" W.
2	19° 11' 14" N.	67° 26' 45" W.	30	18° 21' 51" N.	64° 40' 15" W.
3	19° 30' 28" N.	65° 16' 48" W.	31	18° 21' 22" N.	64° 38' 16" W.
4	19° 12' 25" N.	65° 6' 8" W.	32	18° 20' 39" N.	64° 38' 33" W.
5	18° 45' 13" N.	65° 0' 22" W.	33	18° 19' 15" N.	64° 38' 14" W.
6	18° 41' 14" N.	64° 59' 33" W.	34	18° 19' 7" N.	64° 38' 16" W.
7	18° 29' 22" N.	64° 53' 51" W.	35	18° 17' 23" N.	64° 39' 38" W.
8	18° 27' 35" N.	64° 53' 22" W.	36	18° 16' 43" N.	64° 39' 41" W.
9	18° 25' 21" N.	64° 52' 39" W.	37	18° 11' 33" N.	64° 38' 58" W.
10	18° 24' 30" N.	64° 52' 19" W.	38	18° 3' 2" N.	64° 38' 3" W.
11	18° 23' 51" N.	64° 51' 50" W.	39	18° 2' 56" N.	64° 29' 35" W.
12	18° 23' 42" N.	64° 51' 23" W.	40	18° 2' 51" N.	64° 27' 2" W.
13	18° 23' 36" N.	64° 50' 17" W.	41	18° 2' 30" N.	64° 21' 8" W.
14	18° 23' 48" N.	64° 49' 41" W.	42	18° 2' 31" N.	64° 20' 8" W.
15	18° 24' 11" N.	64° 49' 0" W.	43	18° 2' 3" N.	64° 15' 57" W.
16	18° 24' 28" N.	64° 47' 57" W.	44	18° 0' 12" N.	64° 2' 29" W.
17	18° 24' 18" N.	64° 47' 1" W.	45	17° 59' 58" N.	64° 1' 4" W.
18	18° 23' 13" N.	64° 46' 37" W.	46	17° 58' 47" N.	63° 57' 1" W.
19	18° 22' 37" N.	64° 45' 20" W.	47	17° 57' 51" N.	63° 53' 54" W.
20	18° 22' 39" N.	64° 44' 42" W.	48	17° 56' 38" N.	63° 53' 21" W.
21	18° 22' 42" N.	64° 44' 36" W.	49	17° 39' 40" N.	63° 54' 53" W.
22	18° 22' 37" N.	64° 44' 24" W.	50	17° 37' 8" N.	63° 55' 10" W.
23	18° 22' 39" N.	64° 43' 42" W.	51	17° 30' 21" N.	63° 55' 56" W.
24	18° 22' 30" N.	64° 43' 36" W.	52	17° 11' 36" N.	63° 57' 57" W.
25	18° 22' 25" N.	64° 42' 58" W.	53	17° 4' 60" N.	63° 58' 41" W.
26	18° 22' 26" N.	64° 42' 28" W.	54	16° 59' 49" N.	63° 59' 18" W.
27	18° 22' 15" N.	64° 42' 3" W.	55	17° 18' 37" N.	67° 32' 14" W.
28	18° 22' 22" N.	64° 38' 23" W.			