

Subject

Designation of the Canadian Arctic Area and Norwegian Sea Area as Emission Control Areas under MARPOL ANNEX VI (Regulations for the Prevention of Air Pollution from Ships)

ClassNK Technical Information

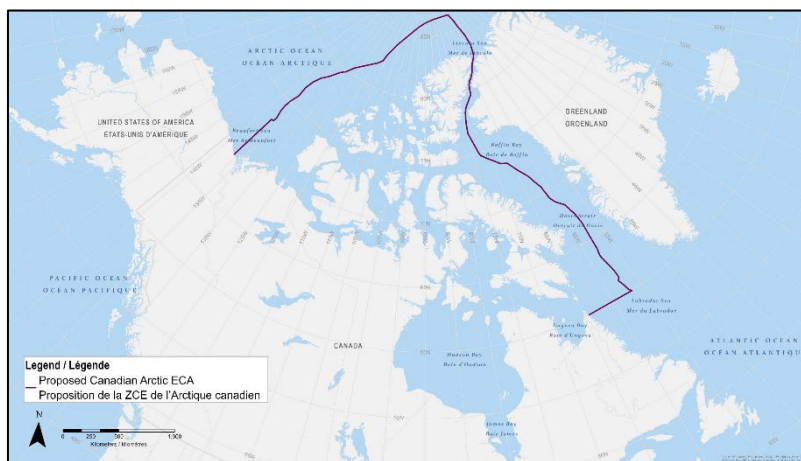
No. TEC-1344
Date 14 January 2025

To whom it may concern

While information on Emission Control Areas (hereinafter referred to as ECA) specified in MARPOL ANNEX VI (hereinafter referred to as ANNEX VI) has already been provided in ClassNK Technical Information Nos. TEC-0654, TEC-0771, TEC-0832, TEC-0866 and TEC-1292, please be advised that said information also now applies to the Canadian Arctic Area and Norwegian Sea Area since they have been designated as new ECA in accordance with amendments to ANNEX VI adopted at the 82nd session of the Marine Environment Protection Committee (MEPC 82) held in October 2024. Relevant information regarding this has been circulated by the IMO as Resolution MEPC.392(82). This ClassNK Technical Information provides the following information related to the above.

1. Sea areas newly designated as ECA

The Canadian Arctic Area and Norwegian Sea Area are designated as ECA for NO_x, SO_x and PM emissions. Please refer to IMO Resolution MEPC.392(82) for definitions of the terms "Canadian Arctic Emission Control Area" and "Norwegian Sea Emission Control Area".



Canadian Arctic ECA*



Norwegian Sea ECA**

Source:

* MEPC81/11 IDENTIFICATION AND PROTECTION OF SPECIAL AREAS, ECAS AND PSSAS: Proposal to designate Canadian Arctic waters as an emission control area for nitrogen oxides, sulphur oxides and particulate matter

** MEPC81/11/1 IDENTIFICATION AND PROTECTION OF SPECIAL AREAS, ECAS AND PSSAS: Proposal to designate the Norwegian Sea as an Emission Control Area for Nitrogen Oxide and Sulphur Oxides

(To be continued)

NOTES:

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2. Application

The amendments will enter into force on 1 March 2026. The NO_x, SO_x and PM emission regulations in the Canadian Arctic Area and Norwegian Sea Area as ECA will be applied as follows:

(1) NO_x ECA

NO_x Tier III regulation will apply to marine diesel engines installed on the following ships and operated in these ECA on or after 1 March 2026.

1. Canadian Arctic Area

- Ships the keels of which are laid or that are at a similar stage of construction on or after 1 January 2025

2. Norwegian Sea Area

- Ships for which the building contract is placed on or after 1 March 2026
- In the absence of a building contract, ships the keels of which are laid or which are at a similar stage of construction on or after 1 September 2026
- Ships delivered on or after 1 March 2030

(2) SO_x and PM ECA

SO_x and PM emission regulation (Regulation 14 and other relevant regulations of ANNEX VI) in both areas will start being enforced on 1 March 2027 due to the exemption clause for first 12 months as specified in ANNEX VI.

For any questions about the above, please contact:

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1. Resolution MEPC.392(82)

ANNEX 1

**RESOLUTION MEPC.392(82)
(adopted on 4 October 2024)**

**AMENDMENTS TO THE ANNEX OF THE PROTOCOL OF 1997 TO AMEND THE
INTERNATIONAL CONVENTION FOR THE PREVENTION OF POLLUTION FROM SHIPS,
1973, AS MODIFIED BY THE PROTOCOL OF 1978 RELATING THERETO**

Amendments to MARPOL Annex VI

**(Designation of the Canadian Arctic and the Norwegian Sea as Emission Control Areas
for Nitrogen Oxides, Sulphur Oxides and Particulate Matter, as appropriate)**

THE MARINE ENVIRONMENT PROTECTION COMMITTEE,

RECALLING Article 38(a) of the Convention on the International Maritime Organization concerning the functions of the Marine Environment Protection Committee conferred upon it by international conventions for the prevention and control of marine pollution from ships,

RECALLING ALSO article 16 of the International Convention for the Prevention of Pollution from Ships, 1973, as modified by the Protocols of 1978 and 1997 relating thereto (MARPOL), which specifies the amendment procedure and confers upon the appropriate body of the Organization the function of considering amendments thereto for adoption by the Parties,

HAVING CONSIDERED, at its eighty-second session, proposed amendments to MARPOL Annex VI concerning the designation of the Canadian Arctic and the Norwegian Sea as Emission Control Areas for Nitrogen Oxides, Sulphur Oxides and Particulate Matter, as appropriate, which were circulated in accordance with article 16(2)(a) of MARPOL,

1 ADOPTS, in accordance with article 16(2)(d) of MARPOL, amendments to MARPOL Annex VI, the text of which is set out in the annex to the present resolution;

2 DETERMINES, in accordance with articles 16(2)(f)(ii) and (iii) of MARPOL, that the amendments shall be deemed to have been accepted on 1 September 2025 unless prior to that date not less than one third of the Parties or Parties the combined merchant fleets of which constitute not less than 50% of the gross tonnage of the world's merchant fleet have communicated to the Organization their objection to the amendments;

3 INVITES the Parties to note that, in accordance with article 16(2)(g)(ii) of MARPOL, the said amendments shall enter into force on 1 March 2026 upon their acceptance in accordance with paragraph 2 above;

4 REQUESTS the Secretary-General, for the purposes of article 16(2)(e) of MARPOL, to transmit certified copies of the present resolution and the text of the amendments contained in the annex to all Parties to MARPOL;

5 ALSO REQUESTS the Secretary-General to transmit copies of the present resolution and its annex to Members of the Organization which are not Parties to MARPOL.

ANNEX

AMENDMENTS TO MARPOL ANNEX VI

(Designation of the Canadian Arctic and the Norwegian Sea as Emission Control Areas for Nitrogen Oxides, Sulphur Oxides and Particulate Matter, as appropriate)

ANNEX VI

REGULATIONS FOR THE PREVENTION OF AIR POLLUTION FROM SHIPS

Regulation 13

Nitrogen oxides (NO_x)

Tier III

1 A new sub-paragraph .3 is added to regulation 13.5.1.2 as follows:

"3 1 March 2026 and is operating in the Norwegian Sea Emission Control Area. For the Norwegian Sea Emission Control Area, "ship constructed on or after 1 March 2026" means a ship:

.1 for which the building contract is placed on or after 1 March 2026; or

.2 in the absence of a building contract, the keel of which is laid or which is at a similar stage of construction on or after 1 September 2026; or

.3 the delivery of which is on or after 1 March 2030."

2 Between paragraphs 5.1.2 and 5.1.3, the word "when" is added.

3 At the end of regulation 13.5.1.3, "." is replaced with ":" and a new sub-paragraph .1 is added as follows:

".1 that ship is constructed on or after 1 January 2025 and is operating in the Canadian Arctic Emission Control Area."

Emission control area

4 At the end of sub-paragraph.3 of regulation 13.6, the word "and" is deleted and at the end of sub-paragraph .4, "." is replaced with ";".

5 New sub-paragraphs .5 and .6 are added to regulation 13.6 as follows:

".5 the Canadian Arctic Emission Control area, which means the area described by the coordinates provided in appendix VII to this Annex; and

.6 the Norwegian Sea as defined in regulation 13.9.4 of Annex II of the present Convention."

Regulation 14

Sulphur oxides (SO_x) and particulate matter

Requirements within emission control areas

6 At the end of sub-paragraph .4 of regulation 14.3, the word "and" is deleted and, at the end of sub-paragraph .5, "." is replaced by ";".

7 New sub-paragraphs .6 and .7 of regulation 14.3 as follows:

.6 the Canadian Arctic Emission Control area, which means the area described by the coordinates provided in appendix VII to this Annex; and

.7 the Norwegian Sea as defined in regulation 13.9.4 of Annex II of the present Convention."

Appendix I

*Form of International Air Pollution Prevention (IAPP) Certificate
(regulation 8)*

**SUPPLEMENT TO INTERNATIONAL AIR POLLUTION PREVENTION CERTIFICATE
(IAPP CERTIFICATE)**

RECORD OF CONSTRUCTION AND EQUIPMENT

7 Section 1.3 of the Supplement to the International Air Pollution Prevention Certificate is replaced by the following:

"1.3 Date of build

1.3.1 Date of building contract (*dd/mm/yyyy*)

1.3.2 Date on which keel was laid or ship was at a similar stage of construction (*dd/mm/yyyy*)

1.3.3 Date of delivery (*dd/mm/yyyy*)"

Appendix VII

*Emission control areas
(regulations 13.6 and 14.3)*

8 Paragraph 1 is replaced by the following:

"1 The boundaries of emission control areas designated under regulations 13.6 and 14.3, other than the Baltic Sea, the North Sea, and the Norwegian Sea areas, are set forth in this appendix."

9 New paragraph 5 is added after paragraph 4 as follows:

"5 The Canadian Arctic area comprises two segments:

- .1 starting at the Yukon mainland at 68°54'.00 N, 137°0'.00 W; following the coordinates listed below and ending at the north coast of Hans Island at 80°49'.91 N, 66°27'.40 W, connected by geodesic lines connecting the following coordinates in World Geodetic System 1984 (WGS84) datum:

POINT	LATITUDE	LONGITUDE
1	68°54'.00 N	137°0'.00 W
2	72°56'.58 N	137°0'.00 W
3	73°0'.42 N	136°21'.72 W
4	73°21'.72 N	136°20'.46 W
5	73°56'.34 N	136°57'.60 W
6	74°30'.18 N	137°13'.08 W
7	75°3'.42 N	137°7'.20 W
8	75°49'.26 N	136°32'.04 W
9	76°42'.18 N	136°57'.06 W
10	77°28'.26 N	136°34'.74 W
11	78°7'.26 N	135°28'.50 W
12	78°39'.72 N	133°44'.88 W
13	79°29'.58 N	131°24'.96 W
14	79°53'.16 N	129°32'.22 W
15	80°31'.44 N	127°33'.48 W
16	81°54'.36 N	118°36'.24 W
17	82°16'.32 N	116°28'.98 W
18	82°52'.86 N	115°29'.46 W
19	83°54'.54 N	112°7'.20 W
20	85°46'.14 N	97°16'.86 W
21	86°9'.78 N	89°14'.46 W
22	86°22'.56 N	78°59'.58 W
23	86°19'.18 N	60°10'.17 W
24	85°38'.92 N	58°10'.58 W
25	85°22'.29 N	57°59'.22 W
26	85°12'.04 N	57°54'.68 W
27	84°49'.56 N	57°13'.28 W
28	84°22'.15 N	56°43'.09 W
29	84°17'.32 N	56°35'.78 W
30	84°11'.05 N	56°29'.53 W
31	83°10'.79 N	57°0'.21 W
32	83°4'.29 N	57°27'.78 W
33	83°0'.95 N	57°32'.72 W
34	82°44'.71 N	58°0'.38 W
35	82°42'.57 N	58°6'.78 W
36	82°40'.69 N	58°11'.74 W
37	82°34'.95 N	58°25'.30 W
38	82°31'.25 N	58°38'.56 W
39	82°27'.52 N	58°50'.12 W

<u>POINT</u>	<u>LATITUDE</u>	<u>LONGITUDE</u>
40	82°22'.87 N	59°2'.00 W
41	82°20'.26 N	59°21'.38 W
42	82°18'.54 N	59°32'.25 W
43	82°17'.22 N	59°41'.31 W
44	82°14'.41 N	59°56'.06 W
45	82°12'.06 N	60°2'.23 W
46	81°51'.67 N	62°9'.60 W
47	81°17'.89 N	64°8'.73 W
48	80°50'.48 N	66°15'.33 W
49	80°50'.10 N	66°26'.97 W
50	80°49'.91 N	66°27'.40 W

- .2 continuing from the south coast of Hans Island at 80°49'.29 N, 66°27'.04 W, following the coordinates listed below, and ending at the coast of Newfoundland and Labrador at 60°0'.00 N, 64°9'.60 W, connected by geodesic lines connecting the following coordinates in World Geodetic System 1984 (WGS84) datum:

<u>POINT</u>	<u>LATITUDE</u>	<u>LONGITUDE</u>
51	80°49'.29 N	66°27'.04 W
52	80°49'.19 N	66°26'.57 W
53	80°45'.43 N	67°3'.99 W
54	80°26'.16 N	68°14'.39 W
55	80°1'.79 N	68°46'.99 W
56	79°40'.38 N	69°4'.68 W
57	78°48'.09 N	72°52'.36 W
58	78°25'.05 N	73°45'.66 W
59	77°30'.83 N	74°38'.24 W
60	76°43'.47 N	74°56'.49 W
61	75°0'.00 N	73°16'.07 W
62	74°50'.67 N	73°2'.71 W
63	74°44'.20 N	72°52'.86 W
64	74°28'.67 N	71°45'.72 W
65	74°24'.02 N	71°25'.67 W
66	74°12'.42 N	70°33'.06 W
67	74°10'.03 N	70°23'.12 W
68	74°7'.50 N	70°12'.16 W
69	74°6'.15 N	70°6'.69 W
70	74°2'.53 N	69°51'.43 W
71	74°2'.25 N	69°50'.33 W
72	73°57'.54 N	69°31'.02 W
73	73°52'.27 N	69°10'.88 W
74	73°46'.73 N	68°51'.14 W
75	73°46'.17 N	68°48'.81 W

POINT	LATITUDE	LONGITUDE
76	73°41'.77 N	68°29'.65 W
77	73°37'.91 N	68°12'.34 W
78	73°36'.51 N	68°5'.42 W
79	73°31'.14 N	67°15'.52 W
80	73°25'.90 N	66°24'.99 W
81	73°18'.48 N	66°7'.91 W
82	72°50'.89 N	65°7'.52 W
83	72°47'.70 N	65°0'.63 W
84	72°45'.76 N	64°58'.22 W
85	72°43'.78 N	64°54'.27 W
86	72°36'.40 N	64°38'.74 W
87	72°30'.58 N	64°26'.04 W
88	72°24'.89 N	64°13'.11 W
89	72°10'.96 N	63°40'.55 W
90	72°6'.33 N	63°30'.42 W
91	72°1'.65 N	63°20'.73 W
92	71°52'.98 N	63°3'.86 W
93	71°47'.21 N	62°52'.67 W
94	71°44'.71 N	62°49'.41 W
95	71°32'.90 N	62°33'.35 W
96	71°31'.73 N	62°31'.66 W
97	71°29'.39 N	62°28'.99 W
98	71°25'.93 N	62°25'.37 W
99	71°18'.98 N	62°17'.45 W
100	71°12'.10 N	62°8'.98 W
101	70°51'.84 N	61°42'.53 W
102	70°48'.17 N	61°37'.62 W
103	70°35'.55 N	61°20'.28 W
104	70°33'.07 N	61°17'.10 W
105	70°13'.48 N	61°10'.49 W
106	70°8'.83 N	61°8'.67 W
107	70°7'.55 N	61°7'.92 W
108	70°1'.68 N	61°4'.08 W
109	69°55'.82 N	60°59'.85 W
110	69°55'.27 N	60°59'.41 W
111	69°49'.82 N	60°57'.99 W
112	69°29'.41 N	60°51'.36 W
113	69°12'.82 N	60°27'.40 W
114	69°10'.24 N	60°23'.47 W
115	69°6'.79 N	60°18'.33 W
116	69°0'.88 N	60°8'.99 W
117	68°56'.83 N	60°2'.21 W
118	68°38'.02 N	59°14'.43 W
119	68°37'.86 N	59°14'.01 W

POINT	LATITUDE	LONGITUDE
120	68°34'.02 N	59°4'.46 W
121	68°32'.88 N	59°1'.49 W
122	68°25'.25 N	58°42'.06 W
123	68°21'.67 N	58°38'.64 W
124	68°16'.07 N	58°33'.75 W
125	68°7'.40 N	58°26'.93 W
126	68°6'.87 N	58°26'.58 W
127	68°4'.26 N	58°24'.69 W
128	68°1'.89 N	58°23'.15 W
129	67°56'.94 N	58°19'.62 W
130	67°44'.25 N	58°9'.79 W
131	67°39'.77 N	58°6'.05 W
132	67°35'.33 N	58°2'.07 W
133	67°30'.76 N	57°57'.66 W
134	67°29'.16 N	57°56'.00 W
135	67°28'.21 N	57°55'.01 W
136	67°27'.27 N	57°54'.57 W
137	67°21'.52 N	57°52'.35 W
138	66°49'.47 N	57°42'.84 W
139	66°41'.71 N	57°40'.35 W
140	66°37'.88 N	57°39'.45 W
141	66°36'.02 N	57°38'.99 W
142	66°30'.27 N	57°38'.04 W
143	66°24'.50 N	57°37'.56 W
144	66°18'.68 N	57°37'.55 W
145	66°12'.84 N	57°38'.01 W
146	66°3'.50 N	57°39'.45 W
147	65°57'.62 N	57°39'.93 W
148	65°57'.50 N	57°39'.93 W
149	65°51'.75 N	57°40'.44 W
150	65°50'.81 N	57°40'.46 W
151	65°37'.59 N	57°41'.74 W
152	65°34'.74 N	57°42'.18 W
153	65°23'.33 N	57°44'.83 W
154	65°18'.08 N	57°45'.70 W
155	65°14'.52 N	57°44'.99 W
156	65°11'.49 N	57°44'.22 W
157	65°8'.79 N	57°43'.69 W
158	65°6'.04 N	57°43'.95 W
159	64°12'.06 N	57°48'.09 W
160	64°4'.20 N	57°49'.01 W
161	63°57'.36 N	57°53'.40 W
162	63°52'.57 N	57°56'.46 W
163	63°50'.05 N	57°57'.01 W

<u>POINT</u>	<u>LATITUDE</u>	<u>LONGITUDE</u>
164	63°43'.99 N	57°58'.60 W
165	63°37'.16 N	58°1'.00 W
166	63°35'.02 N	58°1'.86 W
167	63°28'.62 N	57°59'.62 W
168	63°22'.86 N	57°57'.29 W
169	62°47'.14 N	57°40'.83 W
170	62°11'.35 N	57°25'.12 W
171	62°3'.47 N	57°22'.15 W
172	62°2'.23 N	57°21'.62 W
173	62°0'.39 N	57°20'.92 W
174	61°24'.74 N	57°16'.16 W
175	61°10'.14 N	57°38'.70 W
176	60°43'.56 N	57°17'.64 W
177	60°15'.36 N	57°4'.56 W
178	60°0'.00 N	56°43'.02 W
179	60°0'.00 N	64°9'.60 W
