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COLREG.2/Circ.71
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NEW TRAFFIC SEPARATION SCHEMES

1 The Maritime Safety Committee, at its ninety-ninth session (16 to 25 May 2018), adopted, in accordance with the *Procedure for the adoption and amendment of traffic separation schemes, routeing measures other than traffic separation schemes, including designation and substitution of archipelagic sea lanes, and ship reporting systems* (resolution A.858(20)), new traffic separation schemes and associated measures listed in the annex as follows:

- .1 "In Dangan Channel"; and
- .2 "In the vicinity of Kattegat".

2 Accordingly, the new traffic separation schemes and associated routeing measures listed in:

- .1 subparagraph 1.1 above should be implemented on 1 December 2018; and
- .2 subparagraph 1.2 above should be implemented on 1 July 2020.

ANNEX**NEW TRAFFIC SEPARATION SCHEMES AND ASSOCIATED MEASURES****"IN THE DANGAN CHANNEL"**

(Reference charts: Chinese charts 83001 and 84001, 2nd edition, 2015.

Note: These charts are based on World Geodetic System 1984 datum (WGS 84).)

Description of the traffic separation schemes**Dangan Channel East**

- (a) A separation zone, 0.5 nautical mile wide, is bounded by a line connecting the following geographical positions:

(1) 22°07'.42N, 114°20'.55E (3) 22°07'.21N, 114°15'.31E
(2) 22°07'.71N, 114°15'.31E (4) 22°06'.92N, 114°20'.55E

- (b) A separation line connects the following geographical positions:

(5) 22°08'.02N, 114°20'.55E (6) 22°08'.31N, 114°15'.31E

- (c) A separation line connects the following geographical positions:

(7) 22°06'.60N, 114°15'.31E (8) 22°06'.31N, 114°20'.55E

- (d) A 0.6 nautical mile wide traffic lane for westbound traffic is established between the separation zone in paragraph (a) and the separation line in paragraph (b). The main traffic direction is 273°(T).

- (e) A 0.6 nautical mile wide traffic lane for eastbound traffic is established between the separation zone in paragraph (a) and the separation line in paragraph (c). The main traffic direction is 093°(T).

Dangan Channel West

- (f) A separation zone, 0.5 nautical mile wide, is bounded by a line connecting the following geographical positions:

(9) 22°07'.90N, 114°11'.77E (11) 22°07'.70N, 114°06'.45E
(10) 22°08'.20N, 114°06'.45E (12) 22°07'.40N, 114°11'.77E

- (g) A separation line connects the following geographical positions:

(13) 22°08'.51N, 114°11'.77E (14) 22°08'.80N, 114°06'.45E

- (h) A separation line connects the following geographical positions:

(15) 22°07'.09N, 114°06'.45E (16) 22°06'.80N, 114°11'.77E

- (i) A 0.6 nautical mile wide traffic lane for westbound traffic is established between the separation zone in paragraph (f) and the separation line in paragraph (g). The main traffic direction is 273°(T).

- (j) A 0.6 nautical mile wide traffic lane for eastbound traffic is established between the separation zone in paragraph (f) and the separation line in paragraph (h). The main traffic direction is 093°(T).

Precautionary area Dangan Channel No. 1

- (k) The precautionary area Dangan Channel No. 1 is bounded by a line connecting the following geographical positions:

(18) 22°07'.90N, 114°22'.70E	(4) 22°06'.92N, 114°20'.55E
(5) 22°08'.02N, 114°20'.55E	(8) 22°06'.31N, 114°20'.55E
(1) 22°07'.42N, 114°20'.55E	(17) 22°06'.19N, 114°22'.70E

Precautionary area Dangan Channel No. 2

- (l) The precautionary area Dangan Channel No. 2 is bounded by a line connecting the following geographical positions:

(6) 22°08'.31N, 114°15'.31E	(12) 22°07'.40N, 114°11'.77E
(19) 22°08'.91N, 114°14'.16E	(16) 22°06'.80N, 114°11'.77E
(20) 22°08'.91N, 114°12'.04E	(7) 22°06'.60N, 114°15'.31E
(13) 22°08'.51N, 114°11'.77E	(3) 22°07'.21N, 114°15'.31E
(9) 22°07'.90N, 114°11'.77E	(2) 22°07'.71N, 114°15'.31E

- (m) The light vessel in precautionary area No. 2 is located at the following geographical position:

(21) 22°07'.61N, 114°13'.54E

Note: Recommended directions of traffic flow¹ in precautionary area Dangan Channel No. 2 are established.

¹ See SN.1/Circ.336, paragraph 1.2 and annex 2.

"IN THE VICINITY OF KATTEGAT"

(Reference chart: Danish paper chart No. 100, edition 10, October 2017; Swedish paper chart No. 92, edition 12, March 2015, issued by Hydrographic Offices of Denmark and Sweden.)

Note: These charts are based on World Geodetic System 1984 Datum (WGS 84).)

Description of the traffic separation scheme "Skagen West"

- (a) A separation zone is bounded by a line connecting the following geographical positions:
- | | |
|-------------------------------|-------------------------------|
| (1) 57°50'.47 N, 010°33'.32 E | (3) 57°49'.50 N, 010°36'.66 E |
| (2) 57°50'.47 N, 010°37'.06 E | (4) 57°49'.50 N, 010°32'.92 E |
- (b) A separation zone is bounded by a line connecting the following geographical positions:
- | | |
|-------------------------------|-------------------------------|
| (5) 57°47'.84 N, 010°32'.24 E | (7) 57°47'.45 N, 010°35'.82 E |
| (6) 57°47'.84 N, 010°35'.98 E | (8) 57°47'.45 N, 010°32'.08 E |
- (c) A traffic lane for eastbound traffic is established between the separation zones described in paragraphs (a) and (b).
- (d) A traffic lane for westbound traffic is established between the separation zone described in paragraph (a) and a line connecting the following geographical positions:
- | | |
|-------------------------------|--------------------------------|
| (9) 57°52'.13 N, 010°34'.00 E | (10) 57°52'.13 N, 010°37'.74 E |
|-------------------------------|--------------------------------|

Description of the traffic separation scheme "Skagen East"

- (e) A separation zone is bounded by a line connecting the following geographical positions:
- | | |
|--------------------------------|--------------------------------|
| (11) 57°48'.39 N, 010°53'.49 E | (13) 57°46'.58 N, 010°55'.35 E |
| (12) 57°46'.93 N, 010°56'.03 E | (14) 57°48'.05 N, 010°52'.81 E |
- (f) A separation zone is bounded by a line connecting the following geographical positions:
- | | |
|--------------------------------|--------------------------------|
| (15) 57°46'.70 N, 010°50'.06 E | (18) 57°46'.40 N, 010°49'.30 E |
| (16) 57°45'.23 N, 010°52'.61 E | (19) 57°46'.72 N, 010°49'.34 E |
| (17) 57°44'.89 N, 010°51'.93 E | |
- (g) A traffic lane for eastbound traffic is established between the separation zones described in paragraphs (e) and (f).
- (h) A traffic lane for westbound traffic is established between the separation zone described in paragraph (e) and a line connecting the following geographical positions:
- | | |
|--------------------------------|--------------------------------|
| (20) 57°49'.75 N, 010°56'.23 E | (21) 57°48'.29 N, 010°58'.77 E |
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Description of the inshore traffic zone "at Skagen"

- (i) The area bounded by a line connecting the following geographical positions is designated as an inshore traffic zone:

(27) 57°44'.06 N, 010°32'.08 E	(23) 57°47'.64 N, 010°44'.10 E
(8) 57°47'.45 N, 010°32'.08 E	(24) 57°46'.83 N, 010°45'.50 E
(7) 57°47'.45 N, 010°35'.82 E	(25) 57°42'.24 N, 010°44'.92 E
(22) 57°47'.66 N, 010°35'.90 E	(26) 57°42'.23 N, 010°33'.11 E

Description of the precautionary area "off Skagen"

- (j) A precautionary area is established by a line connecting the following geographical positions:

(10) 57°52'.13 N, 010°37'.74 E	(24) 57°46'.83 N, 010°45'.50 E
(28) 57°52'.13 N, 010°52'.07 E	(23) 57°47'.64 N, 010°44'.10 E
(20) 57°49'.75 N, 010°56'.23 E	(22) 57°47'.66 N, 010°35'.90 E
(15) 57°46'.70 N, 010°50'.06 E	

Description of the traffic separation scheme "Fladen"

- (k) A separation zone is bounded by a line connecting the following geographical positions:

(29) 57°14'.68 N, 011°51'.37 E	(32) 57°13'.05 N, 011°53'.11 E
(30) 57°13'.81 N, 011°52'.85 E	(33) 57°13'.66 N, 011°52'.56 E
(31) 57°13'.12 N, 011°53'.49 E	(34) 57°14'.53 N, 011°51'.08 E

- (l) A traffic lane for southbound traffic is established between the separation zone described in paragraph (k) and a line connecting the following geographical positions:

(35) 57°13'.80 N, 011°49'.62 E	(37) 57°12'.72 N, 011°51'.22 E
(36) 57°12'.93 N, 011°51'.10 E	

- (m) A traffic lane for northbound traffic is established between the separation zone described in paragraph (k) and a line connecting the following geographical positions:

(38) 57°15'.41 N, 011°52'.83 E	(40) 57°13'.47 N, 011°55'.37 E
(39) 57°14'.54 N, 011°54'.31 E	

Description of the traffic separation scheme "Lilla Middelgrund"

- (n) A separation zone is bounded by a line connecting the following geographical positions:

(41) 56°56'.40 N, 012°04'.49 E	(43) 56°55'.04 N, 012°03'.99 E
(42) 56°55'.27 N, 012°05'.20 E	(44) 56°56'.17 N, 012°03'.28 E

- (o) A traffic lane for southbound traffic is established between the separation zone described in paragraph (n) and a line connecting the following geographical positions:

(45) 56°55'.73 N, 012°01'.01 E	(46) 56°54'.61 N, 012°01'.72 E
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- (p) A traffic lane for northbound traffic is established between the separation zone described in paragraph (n) and a line connecting the following geographical positions:

- (q) A separation zone is bounded by a line connecting the following geographical positions:

(49) $56^{\circ}10'.92$ N, $012^{\circ}24'.95$ E (51) $56^{\circ}09'.19$ N, $012^{\circ}27'.23$ E
(50) $56^{\circ}09'.33$ N, $012^{\circ}27'.46$ E (52) $56^{\circ}10'.16$ N, $012^{\circ}25'.23$ E

- (r) A separation zone is bounded by a line connecting the following geographical positions:

(53) 56°09'.93 N, 012°23'.20 E (55) 56°08'.40 N, 012°25'.86 E
(54) 56°08' 54 N 012°26' 11 E (56) 56°09' 78 N 012°22' 94 E

- (s) A separation zone is bounded by a line connecting the following geographical positions:

(57) $56^{\circ}11'.38\text{ N}$, $012^{\circ}27'.73\text{ E}$ (60) $56^{\circ}09'.99\text{ N}$, $012^{\circ}28'.58\text{ E}$
(58) $56^{\circ}10'.61\text{ N}$, $012^{\circ}28'.09\text{ E}$ (61) $56^{\circ}10'.50\text{ N}$, $012^{\circ}27'.77\text{ E}$
(59) $56^{\circ}10'.13\text{ N}$, $012^{\circ}28'.82\text{ E}$ (62) $56^{\circ}11'.33\text{ N}$, $012^{\circ}27'.39\text{ E}$

- (t) A traffic lane for southbound traffic is established between the separation zones described in paragraphs (q) and (r).

- (u) A traffic lane for northbound traffic is established between the separation zones described in paragraphs (q) and (s).

Description of the inshore traffic zone "Entrance to the Sound West"

- (v) The area bounded by a line connecting the following geographical positions is designated as an inshore traffic zone:

(63) $56^{\circ}07'.71$ N, $012^{\circ}16'.76$ E (55) $56^{\circ}08'.40$ N, $012^{\circ}25'.86$ E
(56) $56^{\circ}09'.78$ N, $012^{\circ}22'.94$ E (64) $56^{\circ}06'.38$ N, $012^{\circ}22'.38$ E

Description of the inshore traffic zone "Entrance to the Sound East"

- (w) The area bounded by a line connecting the following geographical positions is designated as an inshore traffic zone:

(66) 56°11'.67 N, 012°33'.26 E (57) 56°11'.38 N, 012°27'.73 E
(59) 56°10'.13 N, 012°28'.82 E (65) 56°13'.67 N, 012°32'.29 E
(58) 56°10'.61 N, 012°28'.09 E