



MALAYSIAN NOTICES TO MARINERS

Monthly Edition 06 of 2022
30th JUNE 2022

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- I - Explanatory Notes / Index of Charts Affected.
- II - Corrections to Charts.
- III - Navigational Warnings.
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Mariners are requested to inform The Hydrographer, National Hydrographic Centre, Bandar Armada Putra, Pulau Indah, 42009 PORT KLANG, Selangor Darul Ehsan, Malaysia. (Tel: +603 3169 4500), (Fax: +603 3101 3111), E-mail: nhc@navy.mil.my immediately upon the discovery of new dangers, changes or defects in aids to navigation and shortcoming in Malaysian charts or publications. Malaysian Notice to Mariners Online (MyNTM Online) can be accessed directly from NHC website.

DATO' HANAFIAH BIN HASSAN
Rear Admiral
The Hydrographer

SECTION I
EXPLANATORY NOTES

Charts

The notices in Section II give instructions for the correction of Malaysian Chart (MAL) while notices in Section III give information on navigational warnings. Section IV contained information on Availability of Malaysian Charts and Publication. Geographical positions refer to the largest scale chart unless otherwise stated. Bearing are true reckoned clockwise from 000° to 359°, those relating to lights are from seaward.

Notices to Mariners correcting MAL charts are issued by the National Hydrographic Centre of Malaysia and should be inserted on the charts affected in waterproof violet ink in case of permanent notices and in pencil in case of temporary and preliminary notices.

Temporary and Preliminary Notices

These are indicated by (T) or (P) after the notice number.

Original Information

An asterisk (*) adjacent to the number of a notice indicates that the notice is based on original information.

INDEX OF CHARTS AFFECTED			
MAL 5	91*/2022	MAL 6400	93*/2022
MAL 5255	97(T)*/2022	MAL 645	93*/2022, 94(T)*/2022, 96(T)*/2022
MAL 5307	92*/2022	MAL 6441	95*/2022
MAL 532	97(T)*/2022	MAL 740	99(T)*/2022, 100(T)*/2022
MAL 5321	91*/2022	MAL 741	100(T)*/2022
MAL 54	91*/2022	MAL 750	98(T)*/2022, 100(T)*/2022, 102(T)*/2022, 103(T)*/2022
MAL 540	91*/2022	MAL 751	98(T)*/2022, 100(T)*/2022, 102(T)*/2022, 103(T)*/2022
MAL 6	99(T)*/2022, 100(T)*/2022, 101(T)*/2022	MAL 762	100(T)*/2022, 102(T)*/2022, 103(T)*/2022
MAL 6416	94(T)*/2022, 96(T)*/2022		

SECTION II

CORRECTIONS TO CHARTS

91*/2022 MALAYSIA – Selangor – Kuala Selangor – Lighthouse.

Source: Marine Department of Malaysia No. 84/2022.

Chart MAL 5 (Last Correction 47/2022) WGS 84 DATUM

Amend range of light to, 18M 03° 20'.50N, 101° 14'.70E

Chart MAL 5321 (Last Correction 203/2020) WGS 84 DATUM

range of light to, 18M 03° 20'.50N, 101° 14'.70E

Chart MAL 54 (Last Correction 58/2022) WGS 84 DATUM

range of light to, 18M 03° 20'.50N, 101° 14'.70E


Chart MAL 540 (Last Correction 67/2022) WGS 84 DATUM

range of light to, 18M 03° 20'.50N, 101° 14'.70E

92*/2022 MALAYSIA – Selangor – Pulau Indah – Bouy.

Source: Marine Department of Malaysia No. 89/2022.

Chart MAL 5307 (Last Correction 194/2021) WGS 84 DATUM

Delete  Q(6)+Fl. 15s. 02° 59'.78N, 101° 22'.86E

93*/2022 MALAYSIA – Pahang – Tg. Gelang – Light Buoy.

Source: Marine Department of Malaysia No. 76/2022.

Chart MAL 6400 (Last Correction 57/2022) WGS 84 DATUM

Insert  ISO.6s.6M 03° 54'.75N, 103° 33'.19E

Chart MAL 645 (Last Correction 57/2022) WGS 84 DATUM

 ISO.6s.6M 03° 54'.75N, 103° 33'.19E


94(T)*/2022 MALAYSIA – Terengganu – Tg. Sulong – Light Buoy.

Source: Marine Department of Malaysia No. 82(T)/2022.

Chart MAL 6416 (Last Correction 39/2022) WGS 84 DATUM

Insert  *NO. 1*
Fl.G.5s. 04° 13'.70N, 103° 29'.31E


Chart MAL 645 (Last Correction 93/2022) WGS 84 DATUM

 *NO. 1*
Fl.G.5s. 04° 13'.70N, 103° 29'.31E

95*/2022 MALAYSIA – Terengganu – Tg. Batu Laut – Light Buoy.

Source: Marine Department of Malaysia No. 78/2022.

Chart MAL 6441 (Last Correction 128/2020) WGS 84 DATUM

Move  *Fl.Y.4* from : 04° 33'.54N, 103° 28'.67E
to : 04° 33'.59N, 103° 28'.65E

96(T)*/2022 MALAYSIA – Terengganu – Pelabuhan Kemaman – Light beacon.

Source: Marine Department of Malaysia No. 83(T)/2022.

1. Light beacon No.8 Q.R.21m12M, in position 04°15'.02N, 103°27'.57E is unlit.
 2. Mariners are advised to navigate with caution in the area.
(WGS84 DATUM)
 3. Charts affected – MAL 6416 – MAL 645.
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97(T)*/2022 MALAYSIA – Selangor – Kuala Selat Lumut – Lightbouy.

Source: Marine Department of Malaysia No. 87(T)/2022.

1. Terusan Lightbouy *Fl.R.10s*, in position 02°51'.48N, 101°15'.35E is off station.
 2. Mariners are advised to navigate with caution in the area.
(WGS84 DATUM)
 3. Charts affected – MAL 5255 – MAL 532.
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SECTION III

NAVIGATIONAL WARNINGS

98(T)*/2022 MALAYSIA – Sarawak – Central Luconia Gas Field – Hook – up and Commissioning Activities.

Source: Sarawak Marine Department No. 72/2022(T).

1. Hook – up and Commissioning Activities – 16 Jun to 04 Sep 22 at 04°18'.36N 112°42'.03E.
 2. Vessels involved – MV Keyfield Grace, MV Duyong 3 and MV Mas Baiduri.
 3. Wide berth requested.
 4. Charts affected: MAL 750 and MAL 751.
 5. Cancel this notice 05 Sep 22.
(WGS 84)
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99(T)*/2022 MALAYSIA – Sarawak – South China Sea – Drilling Operation.

Source: Sarawak Marine Department No. 73/2022(T).

1. Drilling Operation – 16 Jun to 03 Sep 22. Positions as follow:
 - (1) 03°03'.24N 110°16'.05E
 - (2) 04°40'.31N 111°41'.49E
 - (3) 04°42'.03N 111°41'.14E
 - (4) 04°37'.56N 111°38'.99E
 2. Vessel involved – Rig Icon Caren, MV Setia Hijrah and MV JM Ehsan.
 3. Wide berth requested.
 4. Charts affected: MAL 6 and MAL 740.
 5. Cancel this notice 04 Sep 22.
(WGS 84)
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100(T)*/2022 MALAYSIA – Sarawak – South China Sea – Geophysical Site Survey.

Source: Sarawak Marine Department No. 74/2022(T).

1. Geophysical Site Survey – 18 Jun to 14 Jul 22. Positions as follow:
 - (1) 03°17'.68N 112°18'.05E
 - (2) 03°16'.36N 112°19'.23E
 - (3) 04°47'.48N 113°49'.29E
 - (4) 03°48'.21N 111°53'.66E
 - (5) 03°45'.67N 111°57'.53E
 - (6) 03°43'.33N 112°02'.90E
 - (7) 04°01'.70N 113°19'.33E
 - (8) 03°49'.77N 112°59'.82E
 - (9) 03°42'.91N 112°46'.91E
 2. Vessel involved – MV Cassandra VI, MV Sapura Wira and MV Grace.
 3. Wide berth requested.
 4. Charts affected: MAL 6, MAL 740, MAL 741, MAL 750, MAL 751 and MAL 762.
 5. Cancel this notice 15 Jul 22.
(WGS 84)
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101(T)*/2022 MALAYSIA – Sarawak – Tg. Sirik – Hydrographic Survey.

Source: National Hydrographic Centre.

1. Hydrographic Survey – 1 Jul to 1 Sep 22. Area bounded by:
 - Sector 4_I
 - 1) 03°32'.86N 111°31'.74E.
 - 2) 03°27'.17N 111°08'.36E.
 - 3) 04°30'.79N 111°54'.86E.
 - 4) 04°12'.53N 111°32'.18E.
 - Sector 4_J
 - 1) 03°27'.17N 111°08'.36E.
 - 2) 03°20'.26N 110°44'.38E.
 - 3) 04°02'.59N 110°44'.38E.
 - 4) 04°16'.89N 111°08'.39E.
 - Sector 4_M
 - 1) 02°59'.83N 110°28'.43E.
 - 2) 02°38'.82N 110°28'.50E.
 - 3) 02°34'.40N 110°23'.22E.
 - 4) 02°42'.52N 110°13'.10E.
 - 5) 02°31'.13N 110°04'.83E.
 - 6) 02°29'.99N 109°57'.27E.
 - 7) 02°40'.25N 109°57'.98E.
 - 8) 02°37'.11N 109°48'.14E.
 - 9) 02°59'.73N 109°54'.60E.
 2. Vessels involved – MV Danum 161 and MV Danum 162.
 3. Wide berth requested.
 4. Chart affected: MAL 6.
 5. Cancel this notice 2 Sep 22.
(WGS 84)
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102(T)*/2022 MALAYSIA – Sarawak – Gugusan Beting Patinggi Ali – Marine Flora and Fauna Survey.

Source: Sarawak Marine Department No. 79/2022(T).

1. Marine Flora and Fauna Survey – 8 Jul to 14 Aug 22. Positions as follow:
 - (1) 04°58'.74N 112°59'.01E
 - (2) 05°22'.00N 112°38'.00E
 - (3) 05°01'.00N 112°56'.00E
 - (4) 05°06'.95N 112°40'.04E
 2. Vessels involved – MV Myy Aleeya and Boat Seng Heng Awesome.
 3. Wide berth requested.
 4. Charts affected: MAL 750 – MAL 751 and MAL 762.
 5. Cancel this notice 15 Aug 22.
(WGS 84)
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103(T)*/2022 MALAYSIA – Sarawak – E Gugusan Beting Patinggi Ali – Drilling Activity.

Source: Sarawak Marine Department No. 80/2022(T).

1. Drilling Activity – 12 Jul to 19 Sep 22 at 04°47'.29N 113°21'.27E.
 2. Vessels involved – Rig Valesto Naga 5, MV JM Setia, MV JM Sepoi and MV Executive Courage.
 3. Wide berth requested.
 4. Charts affected: MAL 750 - MAL 751 and MAL 762.
 5. Cancel this notice 20 Sep 22.
(WGS 84)
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SECTION IV

CUMULATIVE LIST OF MALAYSIAN NOTICES TO MARINERS

Chart numbers refer to navigational charts in the Malaysian Chart (MAL) series.

The published date quoted indicates the date of publication. While the edition date quoted indicates the newest edition publication. A chart carrying an earlier edition date than that quoted in this list is no longer valid and should be replaced.

Bold figures indicate the year and month the notice was issued while the next figures indicate the Notice Number.

Temporary and Preliminary Notices are not included.

User should keep it updated from the information given in section I & II of the subsequent Monthly Edition of Malaysian Notices to Mariners. The next list will be published in Annual Notices to Mariners 2022.

No.	Chart No.	Published	Edition	Notices to Mariners
1.	MAL 4508	31 Dec 1991	31 Dec 2009	2010-(3)51-52-(5)77-78-(9)141-(11)167-168-2011-(3)51-(5)75-(6)88-89-90-92-(7)104-105-106-(9)143-144-2012 - (1)34-(2)52-2013-(4)78-(5)97-(7)116-(8)126-(9)149-(11)175-176-2014-(1)26-(2)38-(5)80-(8)111-112-(10)130-(11)141-2015-(1)26-(2)39- (3)54-(6)106-107-108-(9)167-(12)207-2016-(4)87-(6)123- (9)175-(11)206-2017-(4)76-(7)123-2018-(2)44
2.	MAL 5	31 Jan 1989	01 Oct 2008	2013-(2)43-(4)79-(6)107-(10)158-(11)177-178-179-(12)191-2014-(1)27-(2)39-40-(4)64-(5)83-84-(6)88-(7)101-102-(10)131-132-(12)146-2015-(2)40-41-(4)70-(5)90-(6)109-(8)151-(12)214-2016-(4)88-(6)124-(7)138-(9)186-(10)192-(11)207-209-(12)226-227-228-2017-(7)124-(8)149-(10)182-(11)201-202-(12)215-216-2018-(2)45-(6)128-129-(8)182-(9)196-204-(10)222-(12)277-2019-(1)28-38-(3)73-86-(5)116-117-118-(6)144-145-146-(9)223-(10)235-(11)255-(12)265-2020-(1)28-(2)46-47-(3)54-55-(4)67-68-69-(8)121-(10)164-(12)203-2021-(2)37(3)59(6)124(7)135(9)166(10)192-195-2022-(03)47(06)91
3.	MAL 5123	31 Dec 1999	31 Dec 2019	2020-(4)-64-(5)-72-(7)97-(8)123-(9)150-2021-(3)71(9)167(11)214(12)233-2022-(01)29-(02)35-(03)48
4.	MAL 5128	31 Oct 1992	31 Dec 2019	
5.	MAL 5129	01 Apr 2008	31 Dec 2019	2020-(7)97-(8)122-123(9)150-2021-(3)71(9)168(12)233-2022-(02)35
6.	MAL 515	31 Mar 1993	31 Dec 2013	2014-(1)29-(2)41-42-(3)53-54-(4)66-(6)89-(7)103-(9)124-2015-(2)43-(6)111-(8)144-(9)169-(10)181-183-(12)208-209-2016-(2)47-(3)71-(5)109-110-(6)125-126-127-(7)140-(8)160-161-162-(11)211-212-(12)229-238-2017-(1)27-28-29-(3)58-(7)127-128-(9)168-(10)184-(11)203-2018-(2)48-63-(7)160-161-(8)178-(9)196-(11)248-249-250-262-(12)279-280-2019-(1)29-30-(2)54-55-56-64-(3)75-76-(5)116-(7)170-171-(9)223-(10)236-237-(12)266-2020-(2)44-(6)81- 82-(7)98-(8)122-124-(9)150-(11)184-2021-(3)71-(9)169(10)195(11)215-2022-(01)29-(03)49
7.	MAL 5152	31 Dec 2017	-	2019-(2)54-2020-(2)47-2021-(9)166
8.	MAL 521	15 Dec 1989	31 Dec 2021	2022-(01)29-(02)36
9.	MAL 5217	31 Aug 1994	31 Dec 2016	2017-(5)86-2018-(5)105-(6)131-2019-(10)238
10.	MAL 5230	01 Nov 2016	-	2017-(6)109-(11)204-2018-(3)70-(6)131-(11)249-(6)83-2021-(4)86-2022
11.	MAL 5239	31 Dec 2012	31 Dec 2020	2021-(3)60(4)86-2022-(02)37-(03)-50
12.	MAL 5255	31 Dec 2019	-	
13.	MAL 5259	31 Dec 2019	-	(12)204
14.	MAL 5307	15 Nov 1998	31 Dec 2019	(12)205-2021-(9)171(10)194-2022-(06)92

No.	Chart No.	Published	Edition	Notices to Mariners
15.	MAL 532	30 Jun 1989	31 Dec 2012	2015-(7)132-133-(8)149-152-(12)212-2016-(3)72-(4)88-(11)209-214-223-(12)227-2017-(8)149-(11)204-2018-(11)249-(12)277-281-2019-(4)100-(5)117-121-(8)196-(11)255-2020-(2)44-(4)67-68-(6)83-(7)99-(8)121-2021-(6)125(3)60(4)86(5)109(6)124(10)193-2022-(03)50-(04)67
16.	MAL 5321	31 Dec 2019	-	2020-(4)68-69-(12)203-2022-(06)91
17.	MAL 54	01 Sep 2002	31 Oct 2006	2013-(7)119-(9)151-(10)161-162-(11)180-2014-(2)41-(4)67-2015-(2)41-(3)55-(4)71-72-(5)90-93-95-(6)111-(8)147-148-149-152-2016-(3)71-(4)88-(6)125-(11)209-214-215-2017-(6)111-(10)182-(11)202-(12)217-2018-(2)50-63-(3)71-(9)204-(11)249-(12)277-2019-(1)30-(3)77-(4)100-(5)117-121-(7)170-172-177-(9)223-(11)255-2020-(1)28-(2)45-(4)67-68-69-(8)121-(12)203-2021-(2)37-38-39-40(4)62-63-64(5)109(6)124(12)234-2022-(03)50(06)91
18.	MAL 540	31 Dec 1993	15 Jul 2007	2015-(2)41-(5)90-2016-(1)30-(2)49-(4)88-(11)209-(11)215-2017-(3)68-2017-(6)111-112-(10)185-2018-(9)204-(11)254-(12)277-2019-(1)32-(4)100-(5)121-(8)196-197-(11)255-2020-(1)28-(2)45-(4)67-68-69-(7)99-(8)121-(12)-203-2021-(2)37-39-40(4)62-63(12)234-2022-(04)67(06)91
19.	MAL 5403	30 Sep 1988	31 Dec 2012	2013-(11)180-2016-(2)49
20.	MAL 5410	15 Sep 1993	31 Dec 2012	2014-(2)43-(7)104-(9)125-2015-(3)56-(5)96-(8)153-2016-(12)231-2017-(10)185-2018-(2)51-(12)282-2019-(6)147(8)152-2022-(04)68
21.	MAL 5416	01 Mar 1984	31 Dec 2015	2016-(7)141-2017-(7)129-(8)151-2019-(1)33
22.	MAL 5419	01 Nov 1985	16 Sep 2016	2016-(7)141-2018-(11)253-2019-(1)33
23.	MAL 5425	30 Dec 1991	31 Dec 2015	2016-(7)141-(9)180-(12)231-2017-(7)129-(8)151-2018-(2)51-(11)253-2019-(6)147-2022-(04)68
24.	MAL 5529	01 Mar 2006	31 Dec 2016	2017-(3)61-(5)87-(8)152-(11)205-2018-(9)197-2019-(1)34-(3)79-(6)148-2020-(1)-30
25.	MAL 553	01 Sep 1992	15 Jul 2007	2015-(3)56-57-58-(6)118-(8)145-(10)184-2016-(1)30-(2)49-(9)182-2017-(1)35-2017-(6)111-(10)185-2018-(2)51-(7)150-(10)224-(11)253-254-(12)282-2019-(3)79-2020-(11)185-2021-(2)39(3)62(8)152(12)234
26.	MAL 5536	01 Dec 2016	-	2017-(4)78-(5)87-(7)130-2018-(1)28-(7)150-(9)197-(10)224-2019-(1)34-38-(3)79-86-2020-(1)-30-(11)185-2021-(4)87(11)216-217
27.	MAL 554	15 Jun 1999	15 Aug 2005	2015-(3)56-(5)96-(10)184-2016-(1)30-(2)49-(9)183-(12)231-2017-(1)35-(4)78-2017-(6)111-(10)185-2018-(7)150-(10)224-2019-(1)38-38-(3)79-80-86-2020-(1)-30-2021-(2)39(3)62(4)87(8)152(11)217-2022-(04)68
28.	MAL 5622	30 Sep 1993	31 Dec 2010	2011-(3)58-59-2013-(1)33-(9)153-(11)182-2014-(6)91-(7)105-2016-(1)31-(3)74-75-(4)89-(8)168-2018-(10)225-2021-(3)61(9)176
29.	MAL 5625	31 Oct 2015	-	2017-(8)153-2021-(2)41

No.	Chart No.	Published	Edition	Notices to Mariners
30.	MAL 5630	31 Dec 2010	-	2011-(3)59-(10)165-2013-(9)153-2016-(2)60-(3)74-75-(4)89-(8)168-2017-(7)131-(8)153-2018-(10)225-2021-(2)41
31.	MAL 5631	30 Sep 1991	31 Dec 2017	2018-(7)151-2019-(6)149
32.	MAL 565	31 Dec 1994	31 Dec 2018	2019-(1)38-(3)79-86-2020-(3)55-(11)185-2021-(2)41(3)59-61(5)107(6)121(11)216-217-2022-(02)38
33.	MAL 58	31 Dec 1997	15 Jul 2004	2013-(6)111-(11)177-180-2014-(6)92-2015-(2)39-41-(3)57-58-(6)118-(8)145-2016-(1)30-(2)60-(3)75-2018-(2)51-(11)254-(12)282-2020-(3)-55-(9)148-2021-(2)39(3)62(5)107(6)121(12)234-2022-(02)38
34.	MAL 6	01 Oct 1991	30 Sep 2014	2014-(9)126-127-(10)136-137-2015-(1)28-(4)74-75-76-77-78-(6)119-(7)137-138-(8)157-(11)202-203-(12)214-216-2016-(1)35-(2)50-51-(6)128-129-(11)206-216-2017-(3)62-(4)76-(6)113-(10)189-(11)206-(12)218-219-2018-(1)29-(2)55-(3)75-(4)87-89-(7)152-153-(8)182-183-(10)226-227-228-(11)256-257-(12)283-2019-(2)57-58-59-(3)81-(6)150-151-(10)239-(11)251-2020-(5)73-(10)165-166-2021-(4)88-89(5)111(11)218(12)235-2022-(01)30
35.	MAL 6124	30 Sep 2014	30 Sep 2020	2020-(10)186-2021-(4)90(6)122(9)169(10)195(11)215-2022-(03)49
36.	MAL 6125	01 Sep 2002	15 Apr 2007	2008-(8)161-(10)196-2018-(2)63-(11)250-2019-(7)174-(9)219-2021-(1)28
37.	MAL 6128	01 Jun 1998	15 Jul 2016	2017-(7)135
38.	MAL 6130	30 Nov 1992	01 Dec 2016	2017-(5)88-(7)126-135-(9)167-169-170-(10)186-(12)220-221-2018-(4)88-(5)107-2019-(2)60-2020-(4)65-(11)186
39.	MAL 6134	30 Nov 1992	01 Dec 2016	2017-(3)63-(5)88-(9)167-169-170-(10)186-(12)221-2018-(1)30-(2)47-52-63-(4)88-(5)107-108-(8)179-(9)198-(11)250-2019-(2)60-(3)82-(7)173-(9)217-218-(11)252-2020-(10)167-(11)186(9)169
40.	MAL 6147	31 Dec 2017	31 Dec 2021	2022-(03)49
41.	MAL 6202	01 Aug 2014	-	
42.	MAL 625	01 Jun 1996	31 Dec 2010	2011-(4)70-2012-(5)96-(6)118-(7)125-2013-(3)74-(9)150-2014-(10)131-(11)142-2015-(4)73-(5)98-(6)120-121-(7)134-(10)186-(11)200-2016-(3)76-2017-(7)124-2018-(2)63-(8)180-(12)265-2021-(4)91-92(9)175(10)195-2022-(04)69
43.	MAL 6257	31 Dec 1992	31 Dec 2021	2022-(04)69
44.	MAL 635	31 Dec 1996	15 Apr 2007	2007-(7)91-(9)129-2011-(4)70-2012-(3)73-(5)96-(6)118-(7)125-128-2013-(1)34-2015-(4)73-(6)120-(7)134-135-(11)200-201-(12)214-2016-(1)33-(8)163-2017-(12)222-2018-(4)90-(8)180-(10)229-(12)288-2019-(3)83-(5)122-(12)265-2020(12)208-2021-(4)93-2022-(04)69

No.	Chart No.	Published	Edition	Notices to Mariners
45.	MAL 6359	31 Dec 1991	31 Dec 2018	2019-(4)101-(8)198-(9)221-2020-(6)84-(8)129-(9)149-(12)206-209-210-2021-(2)42(9)172
46.	MAL 6400	31 Dec 2018	-	2019-(3)84-(4)101-(8)198-(9)221-2020-(5)76-(8)129-(9)149-(11)187-(12)206-207-209-2021-(2)42-(5)110-2022-(06)93
47.	MAL 6416	30 Apr 1988	31 Jul 2017	2018-(2)53-54-(12)284-2019-(10)240-(12)267-2020-(5)75-(7)100-103-2021-(1)32-33(2)43(4)99-2022-(02)39
48.	MAL 6436	01 Oct 1999	31 Dec 2009	2012-(5)103-2016-(2)53-2020-(8)127
49.	MAL 6441	01 Jun 2000	01 Oct 2008	2012-(5)103-2013-(1)37-2014-(4)70-2016-(2)53-(3)79-2017-(9)171-172-2019-(7)179-2020-(8)126-127-128-2022-(06)95
50.	MAL 645	30 Sep 2000	15 Apr 2007	2007-(6)82-(7)91-(8)107-(9)125-2008-(1)40-(10)197-2010-(8)126-2012-(4)80-85-(5)103-2013-(1)26-(2)49-50-2014-(7)101-(10)132-2015-(12)218-2016-(2)53-(3)79-2017-(10)188-(11)201-2018-(2)54-(4)90-(6)129-(7)155-(8)182-(10)230-(12)-288-2019-(1)35-(7)179-2020-(7)100-(8)126-128-129-(11)187-(12)206-207-209-2021-(1)33(4)93-99(10)195-2022-(06)93
51.	MAL 65	31 Dec 2008	-	2010-(4)72-(5)78-79-(7)105-(10)152-(12)182-2011-(1)34-(6)91-(8)130-2012-(1)37-(3)73-(4)80-(5)96-(7)124-125-128-2013-(1)26-27-28-(2)43-(7)118-2014-(2)39-42-(4)64-(7)101-103-(10)131-132-(11)142-2015-(4)73-(5)98-(6)120-122-(7)134-135-(11)201-(12)214-2016-(1)33-(6)124-(11)212-2017-(1)29-(7)124-(10)188-(11)201-203-(12)215-222-2018-(6)129-(8)182-(10)222-(12)289-2019-(6)146-(7)171-(10)235-(12)265-2020-(3)54-(7)100-(11)187-(12)207-2021-(4)90(9)175(10)195-2022-(03)47
52.	MAL 6522	01 Apr 2008	31 Mar 2020	2020-(8)125-2021-(1)29(2)44
53.	MAL 654	15 Dec 2001	31 Oct 2006	2013-(7)120-2017-(11)201-2018-(3)73-(7)156-(10)222-2019-(8)199-(12)268-2020-(1)31-(3)-54-2021-(1)30(3)70(4)94(6)123-2022-(03)51
54.	MAL 6554	30 Nov 2020		
55.	MAL 655	31 Dec 1993	15 Apr 2007	2007-(11)166-2008-(3)67-(11)211-(9)183-2010-(5)80-(6)91-2011-(11)184-2012-(1)42-(2)55-61-(3)71-80-2013-(1)28-29-37-(2)43-2014-(2)27-(2)39-(3)52-(4)64-(6)88-(7)102-(12)146-2015-(6)123-2016-(3)79-(6)124-2017-(11)201-(12)215-2018-(7)156-(8)182-(10)222-2019-(7)179-(10)235-2020-(3)54-(8)126-128(7)137-2022-(03)47
56.	MAL 664	15 Dec 2001	31 Dec 2010	2011-(12)204-2012-(11)176-179-2013-(1)27-36-(5)104-(7)121-(10)158-(11)179-2014-(1)31-(2)40-2015-(4)70-(8)154-2016-(2)48-(11)207-208-218-(12)228-2017-(11)201-2018-(3)73-(9)200-2019-(2)63-(6)152-(7)175-178-2020-(2)46-(3)57-(6)85-87-(10)168-2021(1)34(2)45-(3)72(4)94(6)123-2022-(01)28-31(03)52
57.	MAL 673	15 Nov 1998	31 Dec 2009	2013-(7)121-2017-(11)201-2018-(7)157-2020-(6)85-(7)101-2021-(2)45-2022-(01)28-31(03)52

No.	Chart No.	Published	Edition	Notices to Mariners
58.	MAL 68	31 Dec 2008	-	2009-(11)183-(12)191-2010-(3)52-(4)75-(5)80-(6)91-(8)127-2012-(2)55-(3)71-(7)127-(11)176-179-2013-(1)28-29-36-(2)43-(5)104-(6)107-(7)121-(10)158-(11)178-179-(12)191-2014-(1)27-31-(2)39-40-(4)64-(5)84-(6)88-(7)102-(12)146-2015-(2)40-(4)70-(6)109-123-2016-(8)164-(9)186-(10)193-(11)207-(12)228-2017-(11)201-(12)215-216-2018-(2)45-(3)73-(7)156-(10)222-(12)285-2019-(3)73-(5)123-(6)144-145-(7)178-(10)235-2020-(2)46-(3)54-(10)164-2021-(1)29-34(3)72(5)108(7)137(10)192-2022-(01)28-31(03)47-51-52
59.	MAL 7139	15 Nov 1998	31 Dec 2009	2010-(3)64-(12)189-2011-(1)38-39-(11)189-2012-(3)74-2016-(3)81-2017-(5)89-2018-(1)32-2019-(1)37-(2)61-(4)102-(8)200
60.	MAL 7150	01 Dec 1989	31 Oct 2009	2010-(2)44-(12)189-2011-(1)38-2012-(3)74-(4)86-(12)193-2013-(1)38-39-(5)105-2014-(2)49-(3)57-2015-(11)202-2017-(5)90-2018-(1)29-2019-(1)37-(10)241-2022-(05)78
61.	MAL 7212	30 Oct 1992	31 Dec 2009	2010-(7)108
62.	MAL 7213	30 Sep 1991	01 Oct 2008	2016-(2)54
63.	MAL 7215	15 Apr 1989	01 Oct 2008	2009-(2)58-(4)80-94-2010-(10)157-159-2013-(9)154-(10)167-2014-(3)57-(4)71-2016-(2)54-(4)90-2017-(2)45-46-(5)91-92-(6)114-2018-(6)136-(7)158-(9)201-2019-(2)59-61(10)196
64.	MAL 723	01 Dec 1996	30 Sep 2018	2019-(2)57-2021-(4)88
65.	MAL 7257	30 Oct 1989	03 Sep 2018	2019-(2)58-59-(8)204-2020-(5)-74-(6)-86-2021-(3)65(10)196
66.	MAL 731	15 Jul 1996	31 Dec 2007	2008-(3)74-(8)163-(10)201-2009-(2)58-(3)80-(4)92-93-(5)107-(8)150-151-2010-(5)83-(10)156-159-2011-(11)188-2012-(5)104-2013-(2)53-(3)76-(5)105-(7)124-2014-(2)49-(3)57-(4)71-2015-(2)47-(3)61-(4)74-(10)187-(11)202-2016-(1)35-(4)90-2017-(2)46-47-(5)92-(6)114-(7)124-2018-(1)29-(5)109-(6)134-136-138-2021-(3)65(10)196
67.	MAL 7317	30 Sep 1988	31 Dec 2007	2008-(3)75-(4)89-(6)122-(9)184-185-2009-(1)43-(7)135-2010-(3)65-66-(5)85-(7)109-(12)190-2011-(1)40-(9)157-(12)206-2012-(5)106-2013-(6)115-(10)168-2014-(3)57-59-(11)143-2015-(4)80-81-(10)188-2016-(1)36-(5)115-(8)165-(10)197-2017-(2)48-(5)94-(9)175-(12)223-2018-(7)159-(10)231-2019-(2)62-(8)202-2020-(2)48-(8)130-131-132-133-2021-(10)200
68.	MAL 7332	15 Aug 1989	01 Apr 2008	2007-(12)193-2008-(6)122-(8)164-(9)184-185-2010-(3)65-66-(5)85-(7)109-(12)190-2011-40-77-157-206-2012-(5)106-2013-(6)115-(10)168-2014-(3)57-59-(11)143-2015-(10)188-(11)202-2016-(5)112-115-(10)197-(11)219-2017-(2)48-(8)155-(9)175-(12)223-2018-(1)29-33-(5)55-(7)159-2019-(2)62-(8)202-(10)242-(11)253-2020-(8)130-131-132-133-2021-(10)200-2022-(01)32

No.	Chart No.	Published	Edition	Notices to Mariners
69.	MAL 740	15 Apr 1996	31 Dec 2008	<p>2009-(2)58-(3)80-94-(9)165-2011-(3)61-(5)79-2012-(10)169-170-2013-(2)47-51-52-(3)70-(8)128-129-2014-(1)32-(3)57-58-(4)69-71-2015-(1)28-(3)60-(4)74-75-(11)202-2016-(1)35-(4)90-2017-(1)32-(2)46-(5)92-93-(6)114-2018-(1)29-(5)110-(6)134-136-137-138-(10)232-2019-(2)58-(3)81-(8)204-(11)251-2020-(5)74-(6)86-(6)165-2021-(3)65(5)111(10)196</p> <p>2003-(1)37-(6)86-(9)122-(10)132-(11)150-2004-(5)82-(6)97-(11)178-179-180-181-182-2005-(1)36-(3)64-(4)83-85-86-(8)168-(9)178-(12)208-2007-(2)44-46-47-48-49-50-(3)58-(12)193-2009-(2)62-(3)79-(9)164-165-2010-(10)160-(12)188-190-2011-(5)77-(6)96-(11)187-(12)206-2012-(5)106-2013-(3)70-(6)112-(8)128-129-(10)169-2014-(2)45-(3)57-59-(4)69-2015-(2)48-(4)75-(11)202-2016-(5)115-116-(10)197-2017-(2)49-50-(3)64-(6)113-(8)156-2018-(1)33-(2)55-56-(5)111-(6)134-(10)232-2019-(3)81-(6)150-(10)242-(10)243-(11)253-(12)269-2020-(2)48-(6)165-2021-(4)95(5)111(10)197-2022-(01)32</p> <p>2013-(8)129-(11)184-2014-(1)33-(3)55-57-(4)73-(6)93-2015-(1)34-(3)62-63-(4)77-78-(11)202-2016-(1)37-(2)50-(9)188-(10)199-2017-(10)189-(12)218-224-2018-(1)29-(2)55-(3)74-75-(4)87-89-(5)112-113-(6)133-134-(11)259-(12)286-2019-(3)81-(5)124-(6)151-(8)201-(8)203-2020-(10)166-2021-(3)66-69(9)173(10)198(11)218-2022-(03)53-54-55</p>
70.	MAL 741	01 Jun 1998	15 Nov 2002	<p>2010-(1)38-(7)110-(10)160-(12)188-190-2011-(5)77-(9)156-(11)187-(12)206-2012-(5)106-2013-(3)70-(6)101-112-(7)128-129-(10)169-(11)184-2014-(2)45-(3)55-57-59-(4)69-(6)93-(10)137-2015-(2)48-(4)75-77-(11)202-2016-(5)115-116-(9)188-(10)197-2017-(2)49-50-(6)113-(8)156-(11)206-(12)218-2018-(1)29-33-(2)55-56(3)74-75-(4)87-89-(5)111-112-(6)134-(10)228-2019-(2)62-(3)81-(6)150-151-(10)243-2020-(10)166-2021-(4)95(9)173(10)197(11)218-2022-(01)32</p>
71.	MAL 750	01 Oct 1998	31 Dec 2007	<p>2010-(3)67-(4)76-(5)78-2011-(3)62-(10)172-(11)191-(12)205-207-2012-(4)84-(5)105-(6)119-(6)129-130-(8)140-(12)192-2013-(7)122-123-(8)129-(10)165-(12)194-2014-(1)33-(3)57-60-(4)73-(8)116-117-2015-(3)62-63-(4)78-(6)125-(8)156-(9)170-(12)202-214-2016-(1)37-38-(2)56-(8)166-(10)199-2017-(2)52-(4)81-(7)123-(9)173-174-(10)189-(12)224-2018-(2)57-(5)113-114-(6)133-135-(8)181-(10)226-233-(11)259-260-(12)286-287-2019-(3)85-(8)201-(8)203-(9)222-(11)254-2021-(3)66-69(4)96-97(10)198(11)218-2022-(03)54-55</p>
72.	MAL 751	31 Dec 1993	31 Oct 2009	<p>2010-(3)67-(4)76-(5)78-2011-(3)62-(10)172-(11)191-(12)205-207-2012-(4)84-(5)105-(6)119-(6)129-130-(8)140-(12)192-2013-(7)122-123-(8)129-(10)165-(12)194-2014-(1)33-(3)57-60-(4)73-(8)116-117-2015-(3)62-63-(4)78-(6)125-(8)156-(9)170-(12)202-214-2016-(1)37-38-(2)56-(8)166-(10)199-2017-(2)52-(4)81-(7)123-(9)173-174-(10)189-(12)224-2018-(2)57-(5)113-114-(6)133-135-(8)181-(10)226-233-(11)259-260-(12)286-287-2019-(3)85-(8)201-(8)203-(9)222-(11)254-2021-(3)66-69(4)96-97(10)198(11)218-2022-(03)54-55</p>
73.	MAL 752	15 Dec 1997	31 Dec 2009	<p>2010-(3)67-(4)76-(5)78-2011-(3)62-(10)172-(11)191-(12)205-207-2012-(4)84-(5)105-(6)119-(6)129-130-(8)140-(12)192-2013-(7)122-123-(8)129-(10)165-(12)194-2014-(1)33-(3)57-60-(4)73-(8)116-117-2015-(3)62-63-(4)78-(6)125-(8)156-(9)170-(12)202-214-2016-(1)37-38-(2)56-(8)166-(10)199-2017-(2)52-(4)81-(7)123-(9)173-174-(10)189-(12)224-2018-(2)57-(5)113-114-(6)133-135-(8)181-(10)226-233-(11)259-260-(12)286-287-2019-(3)85-(8)201-(8)203-(9)222-(11)254-2021-(3)66-69(4)96-97(10)198(11)218-2022-(03)54-55</p>

No.	Chart No.	Published	Edition	Notices to Mariners
74.	MAL 754	31 Dec 1993	15 Aug 2003	2004-(1)39-(2)48-(7)112-(8)128-129-(9)138-139-140-142-(10)158-(11)183-184-185-(12)210-2005-(1)38-(4)87-(5)111-112-(6)139-(9)179-180-(11)196-197-2006-(2)51-(4)71-(5)84-(7)106-(8)113-(10)136-2007-(1)37-(6)85-(9)133-(10)161-(11)175-2008-(1)41-42-(2)53-(6)123-125-2009-(2)63-(3)78-(5)108-(10)174-(11)187-2010-(1)39-(4)76-(5)78-(7)110-111-(10)158-161-(12)191-2011-(3)62-(4)71-(7)117-172-(11)191-(12)205-207-2012-(4)84-(5)105-(6)119-(7)129-130-(8)138-140-(12)192-2013-(7)122-123-(8)129-(10)165-(11)184-(12)194-2014-(1)33-(3)57-60-(4)73-(8)116-117-2015-(1)34-(2)49-(3)62-63-(6)125-126-(9)170-(11)202-(12)214-2016-(1)37-38-39-(2)50-56-58-(5)112-(8)166-(10)199-(12)235-2017-(1)32-(2)52-(4)81-(7)123-(9)173-174-(10)189-(12)224-225-2018-(2)55-57-(3)75-(5)113-114-(6)132-134-135-(8)181-(10)226(11)256-259-260-(12)286-2019-(3)85-(8)201-(8)203-(9)222-(11)254-2020-(1)32-2021-(3)66-69(4)96(8)153(10)198(11)218-2022-(03)53-54-55
75.	MAL 762	31 Oct 2009	31 Dec 2015	-2018-(2)55-(3)74-(4)87-89-(5)112-2019-(3)81-(6)151-(7)176-2020-(10)166-2020-(9)173(11)218
76.	MAL 7724	30 Apr 1996	31 Dec 2010	
77.	MAL 781	30 Oct 1988	31 Dec 2013	2014-(7)106-2015-(6)126-2016-(2)51-2017-(12)219-2018-(3)75-(8)182-(9)202-(10)226-(11)257-2021-(12)235
78.	MAL 8421	01 Nov 1999	31 Dec 2009	2010-(8)128-2011-(12)208-2018-(10)227
79.	MAL 8425	01 Nov 1999	31 Dec 2020	2021-(9)174
80.	MAL 8433	01 Sep 2002	31 Dec 2007	2008-(10)199-2016-(4)92-2018-(1)34-2021-(3)67(12)236-2022-(05)79
81.	MAL 8434	15 Dec 2001	31 Oct 2006	2018-(10)227-2021-(3)67
82.	MAL 8502	31 Jul 1996	31 Dec 2017	2018-(9)203
83.	MAL 8503	15 Sep 1998	15 Jul 2016	2017-(8)157-2018-(2)58-(10)227-2020-(7)102-2021-(1)31(12)236
84.	MAL 8518	31 Dec 1993	31 Dec 2021	
85.	MAL 8523	30 Sep 2014	-	2015-(5)125-2017-(9)173-174-(12)225-2018-(11)260
86.	MAL 8553	15 Jul 2016	-	2016-(12)236-2017-(2)53-(8)158-2018-(1)35-2021-(10)199
87.	MAL 860	30 Sep 2014	-	2015-(8)157-(12)214-2016-(1)40-(2)59-2018-(12)227
88.	MAL 8608	15 Nov 1992	31 Dec 2007	2008-(2)54-2010-(5)87-2011-(12)208-2012-(7)132-133-(11)180-2013-(2)54-(7)125-2014-(3)50-2018-(3)75-(8)182-2020-(4)-66-(10)169
89.	MAL 8617	01 Feb 2006	31 Jul 2017	2017-(8)158-2018-(1)35-(2)59-(4)92-(7)153-2021-(10)199
90.	MAL 8621	31 Dec 2010	-	2015-(12)214-2016-(12)223-2018-(4)92

No.	Chart No.	Published	Edition	
91.	MAL 864	31 Aug 1993	31 Dec 2007	2015-(2)49-(6)125-126-(11)214-2016-(1)38-39-(2)56-58-(4)93-(8)169-(10)200-(12)235-2017-(1)32-(2)52-(3)62-66-(4)81-(9)173-174-(12)225-2018-(2)57-60-(3)75-(5)114-(6)135-(8)181-182-(10)226-233-(11)256-260-(12)287-2019-(3)85-(9)222-(11)254-2021-(4)96-97-98(8)153
92.	MAL 8645	31 Dec 2008	-	2011-(12)208-2015-(12)214-2016-(5)117-2021-(2)46
93.	MAL 865	31 Dec 2007	-	2010-(7)111-2011-(12)208-2012-(1)46-2013-(2)55-(7)123-2014-(9)127-2015-(7)139-(12)214-2016-(4)93-2017-(3)62-2018-(8)182-2018-(11)256
94.	MAL 8655	31 Dec 2017	-	
95.	MAL 871	01 Jun 1998	30 Sep 2014	2016-(7)145-2017-(10)190-2018-(2)63-(11)256
96.	MAL 8715	01 Aug 2014	31 Dec 2021	
97.	MAL 872	31 Dec 1993	31 Dec 2010	2011-(4)71-(12)208-2012-(1)48-2013-(2)54-55-(4)83-2014-(9)127-2015-(6)125-(7)139-(12)214-2016-(1)38-(2)56-(4)93-(10)200-(12)235-2017-(4)62-81-(9)173-(12)225-2018-(2)60-(3)75-(6)135-(8)182-(10)226-(11)256-260-2019-(3)85-2020-(5)-73-2021-(2)47(8)153
98.	MAL 880	31 Aug 2011	-	2013-(12)197-2015-(12)214-2016-(5)118-119-(6)132-(7)145-(12)237-2018-(11)261-2020-(11)188
99.	MAL 884	30 Sep 2014	-	2016-(12)206
100.	MAL 885	31 Dec 2013	-	2016-(12)206-2017-(12)219-2020-(5)-73-2021-(2)47

HYDROGRAPHIC NOTE
(for instructions, see overleaf)

Date :

Ref No : _____

Name of ship or address of sender.

General locality

Subject

Approx position Lat

Long

Chart Affected

Latest Notice to Mariners held

Publication affected (Edition No date of latest supplement, page and Light List No etc)

Details :-

A replacement copy of Chart No.

is required, but see 4 overleaf

Signature of observer/reporter

HYDROGRAPHIC NOTE

Forwarding Information for Malaysian Charts and Hydrographic Publications

INSTRUCTION: -

1. Mariners are requested to notify the National Hydrographic Centre, Bandar Armada Putra, Pulau Indah, 42009 PORT KLANG, Selangor, Malaysia, when new or suspected dangers to navigation are discovered, change observed in aids to navigation, or corrections to publications seems to be necessary.
2. This form and its instructions have been designed to help both the sender and the recipient. It should be used, or followed closely, whenever appropriate. Copies of this Form may be obtained gratis from the Hydrographic Directorate at the above address.
3. When **position** is defined by sextant angles or bearings (true or magnetic being specified) more than two should be used in order to provide and check. Distances observed by radar and the reading of Loran, Decca, etc, should be quoted. However, when there is a series of fixes along a ship course, only the method of fixing and the objects used need be indicated. Latitude and longitude should only be used specifically to position the details when they have been fixed by the astronomical observations and full description of the latter should be given.
4. A cutting from the largest scale chart is the best medium for forwarding details, the alterations and additions being shown thereon in red. When requested, a new copy will be sent in replacement of chart that has been used to forward information, or when extensive observations have involved defacement of the observer's chart. If it is preferred to show the amendments on a tracing of the largest scale chart (rather than on the chart itself) these should be in red as above, but adequate details from the chart must be traced in black ink to enable the amendments to be fitted correctly.
5. When **soundings** are obtained The Mariner's Handbook (NP 100) should be consulted. The echo sounding trace should be marked with times, depths, etc., and forwarded with the report. It is important to state whether the echo sounder is set to register depths below the surface or below the keel; in the latter case the vessel's draught should be given. Time and date should be given in order that corrections for the height of the tide may be made where necessary. The make, name and type of set, together with stylus speed/sound velocity, should also be given.
6. Modern echo sounders frequently register greater depths than the advertised maximum for the set, e.g. with a set whose maximum is 500 metres, a trace appearing at 50 metres may in fact be 550 metres or even 1050 metres. Sounding recorded beyond the set's nominal range usually recognised by the following:-
 - a. the trace being weaker than normal for the depth recorded
 - b. the trace passing through the transmission line
 - c. the "feathery" nature of trace.
- As a check that apparently shoal soundings are not due to echoes beyond the set's nominal range sounding should be continued until reasonable agreement with charted soundings is reached. However soundings received after one or more rotations of the stylus can still be useful and should be submitted if they show significant differences from charted depth.
7. Reports, which cannot be confirmed or are lacking in certain details should be withheld. Shortcomings should be stressed and any firm expectation of being able to check the information on a succeeding voyage should be mentioned.
8. Reports of **shoal soundings**, uncharted dangers and navigational aids out of order should, at the mariner's discretion, also be made by radio to the nearest coast radio station. The draught of modern tankers is such that any uncharted depth under 30 metres or 15 fathoms may be of sufficient importance to justify a radio message.
9. **Port Information** should be forwarded on Form MH 501a together with Form MH 501. Form MH 501a lists the information required for Admiralty Sailing Directions and should be used as an *aide memoire*. Where there is insufficient space on the form an additional sheet should be used.

Note: An acknowledgement of receipt will be sent and the information then used to the best advantage, which may mean immediate action or inclusion in revision in due course. When the Notice to Mariners is issued, the sender's vessel or name is quoted as sometimes happens the information is also received in foreign Notice to Mariners. Further communication should be expected only if the information is of outstanding value or has unusual features.

**HYDROGRAPHIC NOTE FOR PORT
INFORMATION**

(To accompany Form MH 501)

Name of ship or address of sender

Ref No

Date

1.	NAME OF PORT
2.	GENERAL REMARKS Principal activities and trade Latest population figures and date Number of ships or tonnage handled per year Maximum size of vessel handled. Copy of Port Handbook if available
3.	ANCHORAGES Designation, depths holding ground, shelter afforded
4.	PILOTAGE Authority for requests. Embarkation position. Regulations.
5.	DIRECTIONS Entry and berthing information Tidal Streams. Navigational aids
6.	TUGS Number available and max. hp.
7.	WHARVES Names, number or positions. Lengths. Depth alongside. Height above Chart Datum Facilities available
8.	CARGO HANDLING Container, lighters, Ro – Ro etc.
9.	CRANES Brief details and max. capacity
10.	REPAIRS Hull, machinery and underwater. Ship and boat yards. Docking or shipping facilities. Gives sizes of vessels handled or dimensions. Hard and ramps. Divers.
11.	RESCUE AND DISTRESS Salvage, lifeboat Coastguard, etc.
12.	SUPPLIES Fuel with type and quantities available

	Fresh water with rate of supply. Provisions.
13.	SERVICES Medical De-ratting Consuls. Ship chandlery, compass adjustment, tank cleaning, hull painting.
14.	COMMUNICATIONS Road, rail and air services available. Nearest airport or airfield. Port radio and information service with frequencies and hours of operating.
15.	PORT AUTHORITY Designation, address and telephone number.
16.	SMALL CRAFT FACILITIES Information and facilities for small craft (e.g. yachts) visiting the port. Yacht Clubs, berth, etc.
17.	VIEWS Photographs (where permitted) of the approaches, leading marks, the entrance to the harbour, etc. Picture postcards may also be useful

Signature of observer/reporter.....