



SINGAPOREAN NOTICES TO MARINERS

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The monthly Notices to Mariners contain information required to keep charts and publications published by the Hydrographic Division, Maritime and Port Authority of Singapore up-to-date.

Mariners are requested to notify the Chief Hydrographer, Maritime and Port Authority of Singapore, immediately of the discovery of new or suspected dangers to navigation, observed changes to aids to navigation and ways Singaporean Charts and Publications can be improved. The Hydrographic Note on the back page should be used for this purpose.

Detailed information of charts and publications (coverage of charts, latest editions and distributors) are available on the Maritime and Port Authority of Singapore's Website: www.mpa.gov.sg

MPA Telegram Channel: MPA has launched a Telegram channel for notices and circulars. To stay updated, please subscribe via the following link <https://go.gov.sg/mpa-telegram> or scan the QR code:



<https://go.gov.sg/mpa-telegram>

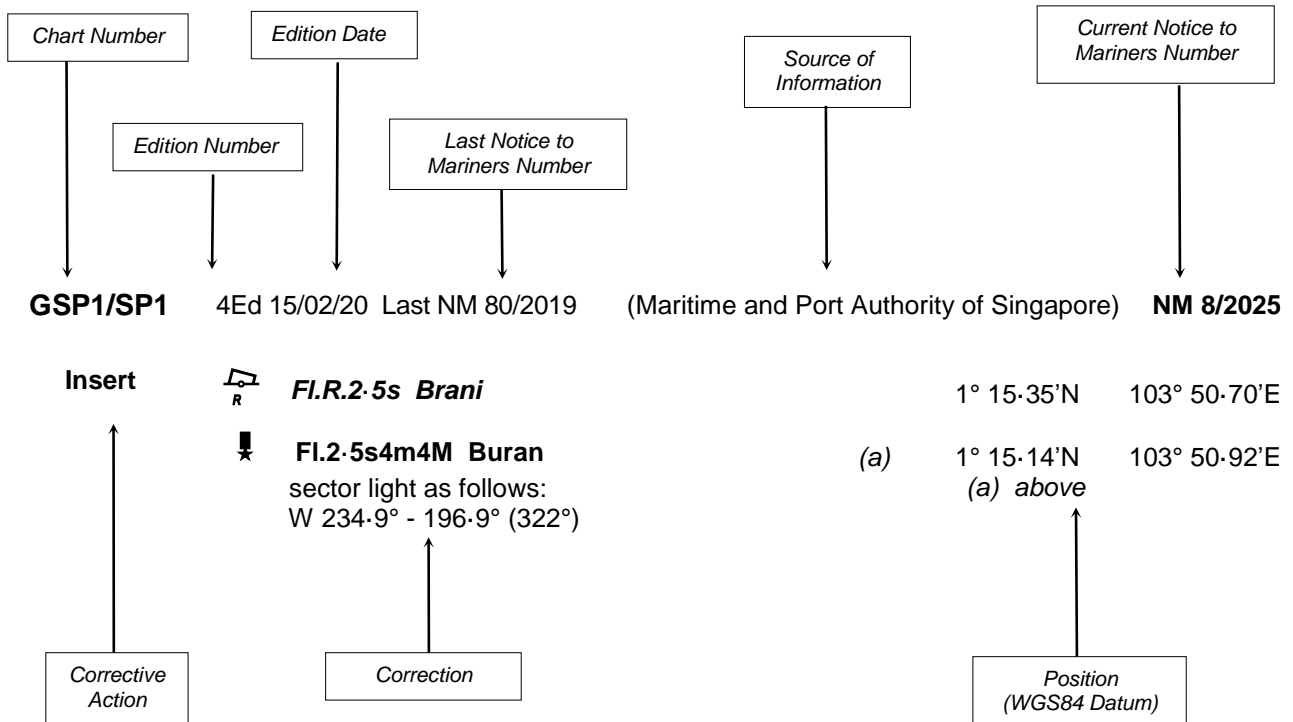
- [Singaporean Notice to Mariners](#)
- [Singaporean Charts](#)
- [Dual-Badged Charts](#)
- [Singapore ENC](#)
- [Malacca and Singapore Straits ENC](#)
- [Singapore Port Information](#)
- [Singapore Tide Tables](#)

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EXPLANATION OF FORMAT

The elements of a typical chart correction are explained below.



Notes:

- a) Notice to Mariners number followed by:
 - T** indicates a Temporary Notice (eg. **NM 9T/2025**).
 - P** indicates a Preliminary Notice (eg. **NM 10P/2025**).
- b) Bearings are true reckoned clockwise from 000° to 359°; those relating to lights are from seaward.
- c) Heights and elevations are above Mean High Water Springs.
- d) # indicates where amendments are made.
- e) * indicates source from Maritime and Port Authority of Singapore.

I
AFFECTED CHARTS AND PUBLICATIONS

INDEX OF NOTICES

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-	New Charts and Publications	2 – 4
41	Singaporean Chart 202	5
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-	Temporary and Preliminary Notices	6
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*Source: Maritime and Port Authority of Singapore

II NEW CHARTS AND PUBLICATIONS

NEW EDITION DUAL BADGED CHARTS PUBLISHED ON 3rd APRIL 2025

Chart Number	: 4038
Title	: Malaysia and Singapore Johor Strait - Western Part
Coverage	: Lat 01°10'80"N 01°28'70"N Long 103°28'60"E 103°40'70"E
Scale	: 1 : 30 000
Date to be Published	: 3 rd April 2025
Size of Chart	: 750.6 x 1100.2 mm
Description	: This new edition includes: <ul style="list-style-type: none"> a) Amendment of Temasek Fairway b) Amendment of West Jurong Channel c) Deletion of Very Large Crude Carrier Anchorage (AVLCC) d) Amendment to aids to navigation in Temasek Fairway

The existing chart of the same number published on 2nd December 2021 will be superseded.

Chart Number	: 4040
Title	: Singapore, Indonesia and Malaysia Tuas View to Pulau Sakijang Bendera (S. John's Island)
Coverage	: Lat 01°07'40"N 01°19'60"N Long 103°34'10"E 103°51'90"E
Scale	: 1 : 30 000
Date to be Published	: 3 rd April 2025
Size of Chart	: 1100.6 x 749.5 mm
Description	: This new edition includes: <ul style="list-style-type: none"> a) Amendment of Temasek Fairway b) Amendment of West Jurong Channel c) Deletion of Very Large Crude Carrier Anchorage (AVLCC) d) Amendment to aids to navigation in Temasek Fairway

The existing chart of the same number published on 2nd December 2021 will be superseded.

II

NEW CHARTS AND PUBLICATIONS

NEW EDITION DUAL BADGED CHARTS TO BE PUBLISHED ON 5th JUNE 2025

Chart Number	: 4042
Title	: Indonesia, Malaysia and Singapore Changi to Pulau Mungging And Tanjung Buntan to Tanjung Tondang
Coverage	: Lat 01°09·55'N 01°21·75'N Long 104°01·70'E 104°19·50'E
Scale	: 1 : 30 000
Date to be Published	: 5 th June 2025
Size of Chart	: 1100.6 x 749.5 mm
Description	: This new edition includes updated surveys, changes to topography and aids to navigation.
	The existing chart of the same number published on 13 th May 2021 will be superseded.

Chart Number	: 4043
Title	: Malaysia and Singapore Kuala Johor and Sungai Johor
Coverage	: Lat 01°16·10'N 01°34·00'N Long 103°57·90'E 104°10·00'E
Scale	: 1 : 30 000
Date to be Published	: 5 th June 2025
Size of Chart	: 748.1 x 1099.6 mm
Description	: This new edition includes updated surveys, changes to topography and aids to navigation.
	The existing chart of the same number published on 6 th May 2021 will be superseded.

II NEW CHARTS AND PUBLICATIONS

NEW EDITION SINGAPORE ENC TO BE RELEASED ON 5th JUNE 2025

Chart Number : SG5C4043

Title : Kuala Johor and Sungai Johor

Coverage : Lat 01°16·10'N 01°27·50'N
Long 103°59·80'E 104°10·00'E

Scale : 1 : 22 000

Date to be Published : 5th June 2025

Description : This new edition includes updated surveys, changes to topography and aids to navigation.


The existing cell of the same number published on 27th August 2021 will be superseded.

II

NOTICES TO MARINERS AND CHART CORRECTIONS

202	8 Ed 15/09/16 Last NM 35/2025	(Admiralty Notice No.15/1593/2025)	NM 41/2025
Insert	 <i>Fl. Y. 5s</i>		1°01·19'N 103°30·04'E

501	7 Ed 01/09/15 Last NM 30/2025	(Admiralty Notice No.15/1593/2025)	NM 41/2025
Insert	 <i>Fl. Y. 5s</i>		1°01·19'N 103°30·04'E

503	5 Ed 15/08/14 Last NM 33/2025	(Maritime and Port Authority of Singapore)	*NM 42/2024
Insert	 <i>HB 1</i>		1°19·74'N 104°24·26'E

*Source: Maritime and Port Authority of Singapore

II
TEMPORARY AND PRELIMINARY NOTICES

NIL

II
TEMPORARY AND PRELIMINARY NOTICES

Cancelled Temporary and Preliminary Notices

<i>No. of Notices</i>	<i>Subject</i>	<i>Charts Affected</i>
16T/2025	Maintenance of Tuas Beacon	Singaporean Chart GSP1/SP1, Dual Badged BA4033, BA4038, BA4040 Singaporean ENC SG5C4033

III NAVIGATIONAL INFORMATION

*(NM 43/2025) SINGAPORE PORT MARINE NOTICES / CIRCULARS

The Port Marine Notices/Circulars shortlisted below would be of particular interest to Mariners. Details and complete list of Port Marine Notices/Circulars are available at this link:

<http://www.mpa.gov.sg/web/portal/home/port-of-singapore/circulars-and-notices>

PMC No. Subject

05/2025 Price revisions for water supplied to vessels in port

PMN No. Subject

29/2025 Construction of sheetpiles at outlet drain near East Coast Lagoon

32/2025 Supply and delivery of sand at Tuas View extension

34/2025 Transport of sand material at Tuas View extension

35/2025 Dredging works south off Pulau Samulun

36/2025 Construction of containment bunds at Tuas View extension

42/2025 Marine construction works off Tanjong Kling

43/2025 Construction of marine viaduct off Woodlands jetty

*Source: Maritime and Port Authority of Singapore

III AMENDMENTS TO PUBLICATIONS

*(NM 44/2025) UPDATING OF PUBLICATION “SINGAPORE PORT INFORMATION 2025”

The Singapore Port Information 2025 including the following updates can be accessed directly from MPA Website:

<https://www.mpa.gov.sg/who-we-are/newsroom-resources/publications/singapore-port-information>

1. Page 57

SINKI FAIRWAY

Amend the following:

Name Of Beacon / Buoy	Position Lat. N Long. E Deg Min	Structure, Colour & Shape	Light Characteristic	Owner
Busong Buoy	01°14.856' 103°44.438'	Double black cones top-mark point downward on yellow black pillar	Q(6)W+LFl.W.15s	MPA

2. Page 62

Insert the following:

SELAT SUDONG

Name Of Beacon / Buoy	Position Lat. N Long. E Deg Min	Structure, Colour & Shape	Light Characteristic	Owner
DHI-RC-01 Buoy	01°12.070' 103°44.154'	Yellow pillar with 'X' topmark	Fl.Y.5s	DHI Water & Environment (S) Pte Ltd
DHI-TSS-01 Buoy	01°12.105' 103°43.596'	Yellow pillar with 'X' topmark	Fl.Y.5s	DHI Water & Environment (S) Pte Ltd

3. Page 65

CRUISE BAY

Insert the following:

Name Of Beacon / Buoy	Position Lat. N Long. E Deg Min	Structure, Colour & Shape	Light Characteristic	Owner
ADCP-TSS1 Buoy	01°15.593' 103°49.355'	Yellow pillar with 'X' topmark	Fl.Y.3s (sync)	WSP Consultancy Pte Ltd
ADCP-TSS3 Buoy	01°15.613' 103°49.139'	Yellow pillar with 'X' topmark	Fl.Y.3s (sync)	WSP Consultancy Pte Ltd

*Source: Maritime and Port Authority of Singapore

III AMENDMENTS TO PUBLICATIONS

*(NM 44/2025) UPDATING OF PUBLICATION “SINGAPORE PORT INFORMATION 2025”

The Singapore Port Information 2025 including the following updates can be accessed directly from MPA Website:

<https://www.mpa.gov.sg/who-we-are/newsroom-resources/publications/singapore-port-information>

4. Page 66

Insert the following:

SELAT SENGKIR

Name Of Beacon / Buoy	Position Lat. N Long. E Deg Min	Structure, Colour & Shape	Light Characteristic	Owner
ADCP-TSS2 Buoy	01°15·301' 103°49·757'	Yellow pillar with 'X' topmark	Fl.Y.3s	WSP Consultancy Pte Ltd

*Source: Maritime and Port Authority of Singapore

IV

REPRINT OF MARITIME SAFETY INFORMATION

TT418

WEST BOUND DEEP DRAFT VESSELS AND VLCCS ARE REMINDED TO COMPLY WITH THE RULES OF VESSELS NAVIGATING THROUGH THE STRAITS OF MALACCA AND SINGAPORE (SOMS). THEY SHALL ALLOW FOR AN UKC OF AT LEAST 3.5 METRES AT ALL TIMES DURING THE ENTIRE PASSAGE THROUGH THE SOMS AND AS FAR AS IT IS SAFE AND PRACTICABLE, PROCEED AT A SPEED OF NOT MORE THAN 12 KTS OVER THE GROUND IN THE WESTBOUND LANE OF THE SINGAPORE STRAIT (BETWEEN SOUTH OF ST JOHN'S ISLAND & RAFFLES LIGHTHOUSE). THEY ARE ADVISED TO BROADCAST, 8 HOURS BEFORE ENTERING THE TSS, NAVIGATIONAL INFORMATION GIVING NAME, DEADWEIGHT, DRAUGHT, SPEED AND TIMES OF PASSING HORSBURGH LIGHTHOUSE AND RAFFLES LIGHTHOUSE.

TT961

VESSELS INTENDING TO CROSS THE TRAFFIC SEPARATION SCHEME (TSS) OR PRECAUTIONARY AREAS IN THE SINGAPORE STRAIT DURING THE HOURS OF DARKNESS ARE RECOMMENDED TO DISPLAY THE NIGHT SIGNALS CONSISTING OF 3 ALL ROUND GREEN LIGHTS IN A VERTICAL LINE AS DETAILED IN THE MARITIME AND PORT AUTHORITY OF SINGAPORE'S PORT MARINE CIRCULAR, 04 OF 2013 DATED 7 MAY 2013.

TT273

ALL VESSELS ARE ADVISED TO NAVIGATE WITH CAUTION, COMPLY WITH THE COLREGS, MAINTAIN VHF RADIO WATCH AND LISTEN TO TRAFFIC INFORMATION WHEN NAVIGATING IN THE SINGAPORE STRAIT AND PORT WATERS. MARINERS ARE ALSO ADVISED TO KEEP A GOOD LOOKOUT OF FREQUENT FERRIES CROSSING THE SINGAPORE STRAIT.

TT175

VESSELS IN EAST JOHOR STRAIT ARE ADVISED TO NAVIGATE WITH PARTICULAR ALERTNESS AND CAUTION WHEN NEAR THE PROJECT AREAS OFF PULAU TEKONG, CHANGI AND MALANG PAPAN AS SHALLOW WATER AREAS EXIST. VESSELS ARE REMINDED TO PROCEED AT A SAFE SPEED AND MAINTAIN A PROPER LOOK-OUT, PARTICULARLY FOR TUGS AND BARGES NAVIGATING NEAR THE PROJECT AREAS AND PASSENGER FERRIES CROSSING BETWEEN CHANGI AND PULAU TEKONG AND VICINITY OF PASIR GUDANG.

TT204

THERE IS A REPORT OF AN UNAUTHORISED BOARDING ON 22 APRIL 2025 AT 2300LT IN POSITION LAT 01-05.40N LONG 103-34.42E. MARINERS ARE ADVISED TO KEEP A GOOD LOOK OUT AND MAINTAIN ANTI PI-RACY WATCH.

TT203

THERE IS A REPORT OF AN UNAUTHORISED BOARDING ON 21 APRIL 2025 AT 0134LT IN POSITION LAT 01-04.93N LONG 103-42.34E. MARINERS ARE ADVISED TO KEEP A GOOD LOOK OUT AND MAINTAIN ANTI PI-RACY WATCH.

TT202

THERE IS A REPORT OF AN UNAUTHORISED BOARDING ON 20 APRIL 2025 AT 0500LT IN POSITION LAT 01-03.20N LONG 103-37.13E. MARINERS ARE ADVISED TO KEEP A GOOD LOOK OUT AND MAINTAIN ANTI PI-RACY WATCH.

TT201

AN ISOLATED DANGER BUOY FL(2)W.10S AT POSITION LAT 01-18.125'N LONG 103-36.945'E TO MARK A PARTIALLY SUBMERGED DREDGER KSE HITACHI GO HAS BEEN DEPLOYED. A VIRTUAL ATON WITH MMSI NO 995636004 OF THE SAME CHARACTERISTIC HAS ALSO BEEN DEPLOYED IN THE SAME POSITION. ALL VESSELS NAVIGATING IN THE VICINITY ARE ADVISED TO NAVIGATE WITH CAUTION.

IV

REPRINT OF MARITIME SAFETY INFORMATION

TT198

CABLE SURVEY VESSEL POLARIS IS CARRYING OUT HYDROGRAPHIC SURVEY WORKS IN THE VICINITY OF PWBGB AND TSS WEST BOUND LANE OF SINGAPORE STRAIT OF VTIS SECTOR 7 – 05 APR 2025 TO 30 APR 2025. TRANSITTING VESSELS ARE ADVISED TO NAVIGATE WITH CAUTION, PROCEED AT SAFE SPEED AND KEEP WELL CLEAR OF THE CABLE VESSEL..

TT187

Racon (D) BUOY Q(6) +LFI.15s AT POSITION 01°03.588'N, 103°38.857'E WAS REPORTED UNLIT. ALL VESSELS NAVIGATING IN THE VICINITY ARE ADVISED TO NAVIGATE WITH CAUTION

TT175

CABLE VESSEL "ENDEAVOUR" IS CARRYING OUT POST LAY AND BURIAL CABLE WORKS IN THE SINGAPORE STRAIT OF VTIS SECTOR 7, 8 AND 9 FROM NIPAH AREA PASSING SOUTH OF THE EASTBOUND LANE AND IN THE TSS FROM 01 MAR 2025 TO 30 APR 2025. TRANSITTING VESSELS ARE ADVISED TO NAVIGATE WITH CAUTION, PROCEED AT SAFE SPEED AND KEEP WELL CLEAR OF THE CABLE VESSEL.

TT147 (AMENDED 122200H JAN 25)

A SUNKEN VESSEL "SILVER SINCERE" HAS BEEN REPORTED AT POSITION LAT 01-17.85N LONG 104-22.82E, APPROXIMATELY 217 DEGREES AND 2.5 NM FROM HORSBURGH LIGHTHOUSE. A VIRTUAL ATON (ISOLATED DANGER MARK) WITH MMSI NUMBER 995636002 HAS BEEN ESTABLISHED AT THE SAME LOCATION TO MARK THE SUNKEN VESSEL.

TT643

THERE IS REPORT OF CONCENTRATION OF FISHING VESSELS OBSERVED IN THE EASTBOUND TRAFFIC LANE IN THE VICINITY BETWEEN BUFFALO ROCK AND BATU BERHANTI. ALL VESSELS ARE ADVISED TO PROCEED AT A SAFE SPEED, KEEP A SHARP LOOK OUT AND NAVIGATE WITH EXTREME CAUTION AT ALL TIME.

TT642

ALL MARINERS NAVIGATING THROUGH THE STRAIT OF SINGAPORE ARE REMINDED TO MAINTAIN CLOSE AND CONTINUOUS MONITORING OF VESSEL-S POSITION. IN DETERMINING RISK OF GROUNDING, DIFFERENT METHODS OF POSITION FIXING SHOULD ALSO BE USED AS MEANS OF CROSS-CHECKING.

TT426

ALL MARINERS ARE REMINDED TO NAVIGATE WITH CAUTION IN THE PRECAUTIONARY AREAS AND TSS ,MAINTAIN A GOOD LOOKOUT FOR CROSSING TRAFFIC. VESSELS INTENDING TO CROSS THE TSS SHALL DO SO ONLY WHEN IT IS SAFE AND SHALL AT ALL TIMES COMPLY WITH THE COLREGS.

TT399

VESSELS ARRIVING TO SINGAPORE OR TRANSITING THROUGH THE STRAIT ARE RECOMMENDED TO UPDATE THEIR DESTINATION ACCURATELY IN THE AIS TO ENHANCE SITUATIONAL AWARENESS FOR OTHER TRAFFIC IN THE VICINITY. EG: SG-PEBGB FOR PILOT EASTERN BOARDING GROUND BRAVO.

TT363

MARINERS ARE REMINDED NOT TO ANCHOR IN ALL AREAS IN THE TSS ,INCLUDING PRECAUTIONARY AREAS OF THE STRAITS OF MALACCA AND SINGAPORE AS WELL AS BETWEEN THE LANDWARD LIMITS OF THE TSS AND APPROACHES TO THE PORTS. VESSELS ENTERING ANY PORT IN ANY LITTORAL STATES ARE TO ANCHOR IN THE ANCHORAGES DESIGNATED BY THE RESPECTIVE LITTORAL STATES. MARINERS ARE ALSO REMINDED THAT EVERY CARE SHOULD BE TAKEN TO AVOID ANCHORING IN THE VICINITY OF SUBMARINE CABLES OR PIPELINES.

ISSUED BY SINGAPORE PORT OPERATIONS CONTROL CENTRE (as at 29th April 2025)

V
EXTRACT OF ADMIRALTY NOTICES TO MARINERS
FOR DUAL BADGED CHARTS

These notices can also be accessed directly from UKHO Website:

<http://www.admiralty.co.uk/maritime-safety-information/admiralty-notices-to-mariners>

1571* SINGAPORE - Dredged depths.

Source: Maritime and Port Authority of Singapore

Chart 4037 [*previous update 1551/25*] WGS84 DATUM

Amend	dredged depth to, <i>11.2m (2023)</i> , centred on:	1° 15'·974N., 103° 51'·681E.
	dredged depth to, <i>11.0m (2023)</i> , centred on:	1° 15'·915N., 103° 51'·609E.

1586* SINGAPORE - Radio reporting points.

Source: Maritime and Port Authority of Singapore

Note: This update is included in New Editions 4038 and 4040, published 03/04/2025.

Chart 4030 [*previous update 1447/25*] WGS84 DATUM



Insert	 , direction of vessel movement 155°/335°	1° 13'·260N., 103° 40'·015E.
Delete		1° 13'·900N., 103° 39'·759E.

Chart 4031 [*previous update 1447/25*] WGS84 DATUM




Insert	 , direction of vessel movement 155°/335°	1° 13'·260N., 103° 40'·015E.
Delete		1° 13'·900N., 103° 39'·759E.

Chart 4039 [*previous update 1524/25*] WGS84 DATUM

Insert	 , direction of vessel movement 155°/335°	1° 13'·26N., 103° 40'·02E.
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1662* SINGAPORE - Buoy.

Source: Maritime and Port Authority of Singapore

Note: This update is included in New Edition 4040, published 3 April 2025.

Chart 4036 [*previous update 3605/24*] WGS84 DATUM

Insert	 <i>Fl.Y.5s MESN-RLH</i>	1° 09'·595N., 103° 44'·372E.
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Chart 4039 [*previous update 1586/25*] WGS84 DATUM

Insert	 <i>Fl.Y.5s MESN-RLH</i>	1° 09'·60N., 103° 44'·37E.
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1771 INDONESIA - Sumatera - Buoyage.

Source: Indonesian Notice 10/95/25

Chart 4041 [*previous update 1255/25*] WGS84 DATUM

Insert	 <i>LFl.10s</i>	1° 10'·13N., 103° 58'·50E.
Delete	former  <i>LFl.10s</i>	1° 10'·24N., 103° 59'·31E.

Updated to Admiralty Notices to Mariners no. 17 of 2025 dated 24th April 2025

HYDROGRAPHIC NOTE - Instructions

1. Mariners are requested to notify the Chief Hydrographer, Maritime and Port Authority of Singapore, when new or suspected dangers to navigation are discovered, changes are observed in aids to navigation or where corrections to nautical publications may be necessary. Reports, which cannot be confirmed or are lacking in certain details, should not be withheld.
2. Any ambiguities of time, positioning and depth should be stressed and any firm expectation of being able to check the information provided on a following voyage should be mentioned.
3. Mariners using satellite position fixing systems, eg. GPS, should provide details of equipment and datum used (where applicable). Where bearings (true or magnetic) are taken visually or by radar to fix a position, it should include more than two objects in order to provide a check on its accuracy. A position may also be defined by bearing and distance from a conspicuous object eg. beacon, lighthouse etc.
4. The note should include a tracing or a digital image of the chart used and the details should be clearly marked.
5. Echo sounders frequently register greater depths than the advertised maximum depth for the equipment, eg. a trace appearing at 50 metres may in fact be 550 metres or even 1050 metres for equipment whose maximum depth is 500 metres. Erroneous depths caused by 2nd transmission error can usually be recognised by the following:
 - (a) the tracing being weaker than normal for the depth registered,
 - (b) the trace appearing to pass through the transmission line,
 - (c) the feathery nature of the trace.
6. Upon receipt of a hydrographic note, a Notice to Mariners may be issued. The sender's vessel or name is quoted as the source unless the same information is also received in foreign Notices to Mariners.
7. Reports of shoals, uncharted dangers and defects in aids to navigation may also be made to the appropriate Singapore Port Operations Control Centre on VHF Channels 10, 12, 14, 68 or 73.

HYDROGRAPHIC NOTE

To:
Chief Hydrographer
Maritime and Port Authority of Singapore
7B Keppel Road #20-00 Tanjong Pagar Complex
Singapore 089055

Tel : 1800 272 7777 / (65) 6272 7777
Email : hydrographic@mpa.gov.sg

Sender's Contact Details :

Date :

Name of Vessel :

Address of Sender :

Tel :

Email :

Nature of Observation :

General Location :

Subject :

Position : Lat. Long.

Charts Used :

Date & Time of Observation :

Details :

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Attachment :

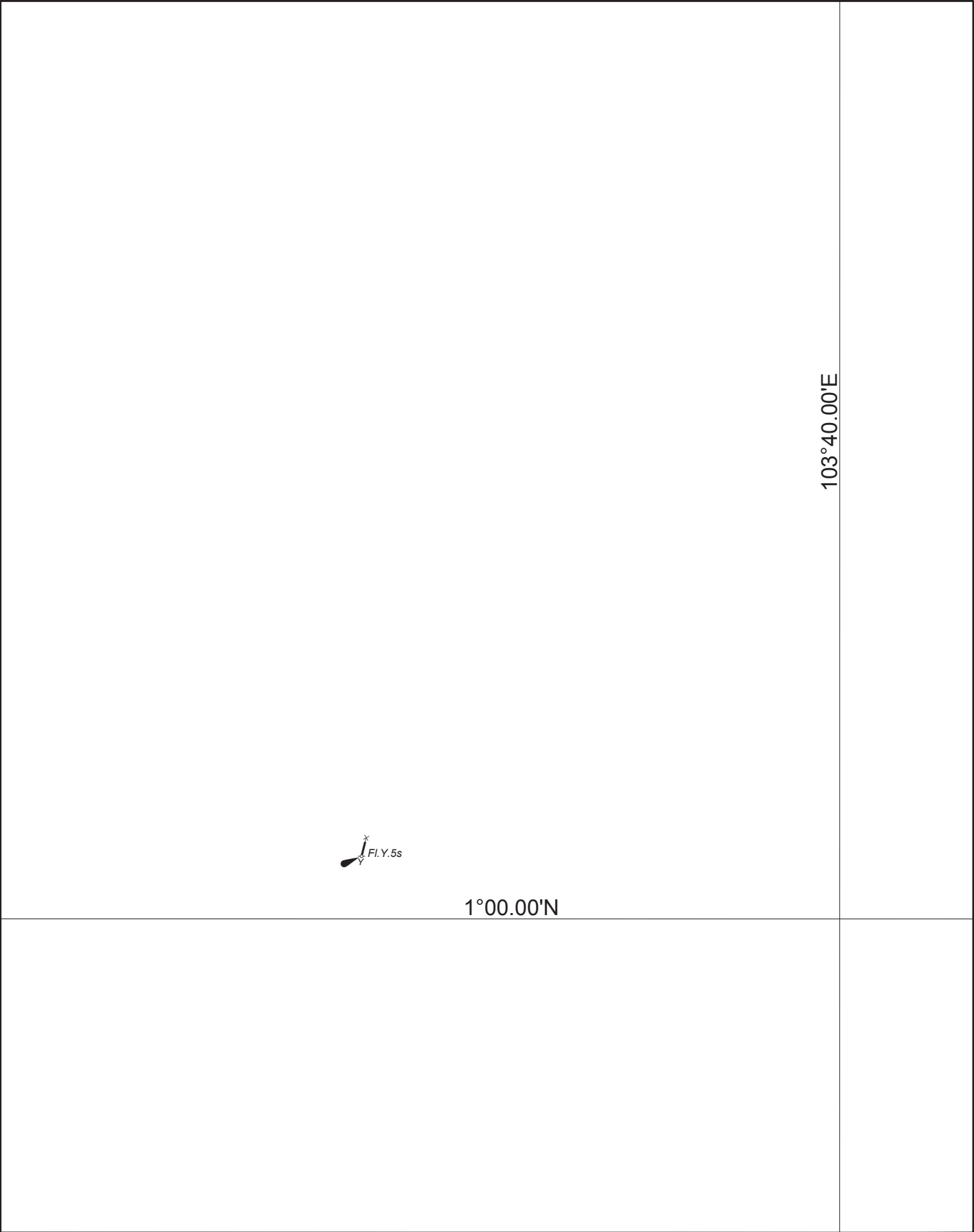
Equipment Used :

Type of Position Fixing : GPS/DGPS Others :

Type of Echo Sounder :

Name and Signature :

Ship's/Company's Stamp :



CORRECTION NO.	SNM EDN NO.	LAST CORR N NO.	CHART NO.	Location on Chart		
41	05	35	202	X		

Caution : some computer printers might distort the tracings.
Users are advised to check and, if necessary, adjust settings on the printer

1°05.00'N

103°30.00'E



CORRECTION NO.	SNM EDN NO.	LAST CORR N NO.	CHART NO.	Location on Chart		
41	05	30	501	X		

Caution : some computer printers might distort the tracings.
Users are advised to check and, if necessary, adjust settings on the printer

A blank map grid with a vertical line at 104° 25'E and a horizontal line at 1° 20'N. A small icon labeled 'HB 1' is located in the bottom-left quadrant.

A blank map grid with a vertical line at 104° 25'E and a horizontal line at 1° 20'N. A small icon labeled 'HB 1' is located in the bottom-left quadrant.

A blank map grid with a vertical line at 104° 25'E and a horizontal line at 1° 20'N. A small icon labeled 'HB 1' is located in the bottom-left quadrant.

CORRECTION NO.	SNM EDN NO.	LAST CORR NO.	CHART NO.	Location on Chart		
42	05	33	503		X	

Caution : some computer printers might distort the tracings.
Users are advised to check and, if necessary, adjust settings on the printer