



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 Website: www.mpa.gov.sg

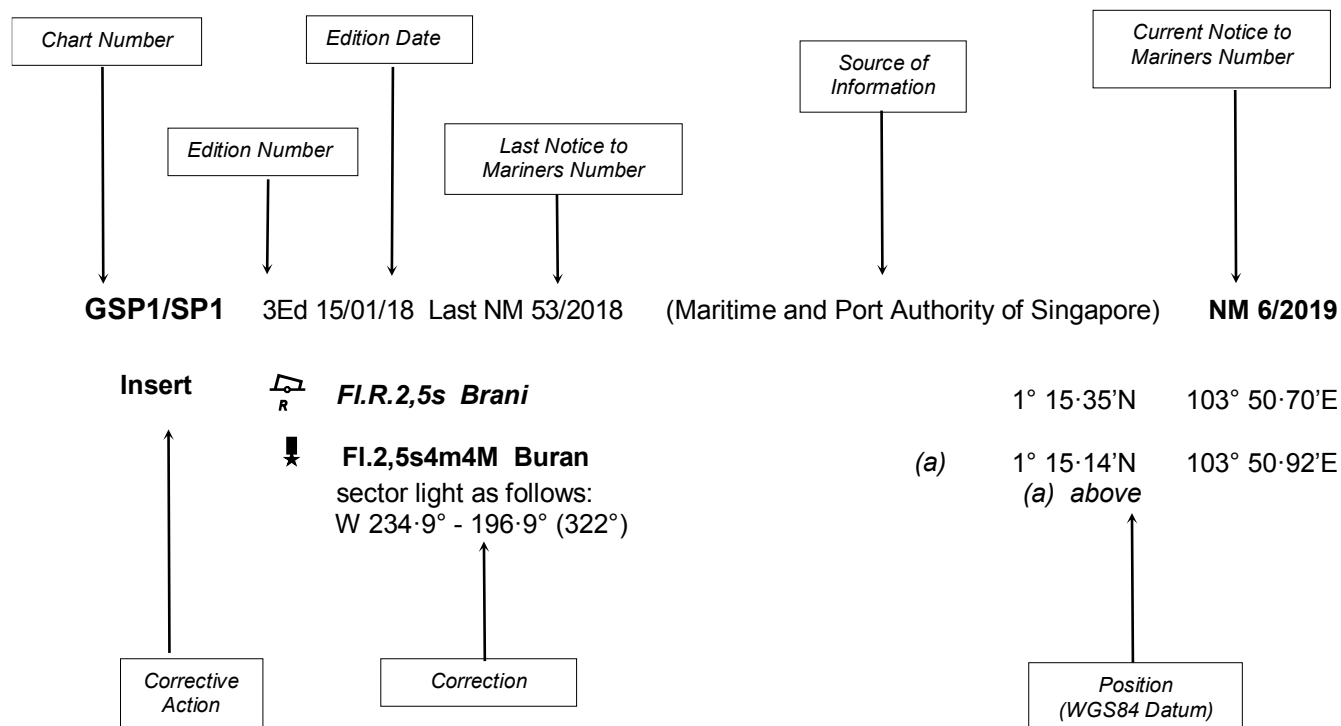
- [Singaporean Notice to Mariners](#)
- [Singaporean Charts](#)
- [Dual-Badged Charts](#)
- [Singapore ENC](#)
- [Malacca and Singapore Straits ENC](#)
- [Singapore Port Information](#)
- [Singapore Tide Tables](#)

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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/2019**).

P indicates a Preliminary Notice (eg. **NM 10P/2019**).

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.

I
AFFECTED CHARTS AND PUBLICATIONS

INDEX OF AFFECTED CHARTS

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*Source: Maritime and Port Authority of Singapore

I
AFFECTED CHARTS AND PUBLICATIONS

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*Source: Maritime and Port Authority of Singapore

II

NOTICES TO MARINERS AND CHART CORRECTIONS

GSP1/SP1	3 Ed 15/1/18	Last NM 96/2019	(Maritime and Port Authority of Singapore)	NM 103/2019
Insert	The accompanying block, centered on:		1°18·44'N	103°37·00'E

(Indonesia notice no. 41/543/2019)

NM 104/2019

Insert	 Fl.5s19m10M	1°07·40'N	103°55·75'E
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502	8 Ed 12/9/19	(Indonesia notice no. 41/543/2019)	NM 104/2019
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Insert	 Fl.5s19m10M	1°07·40'N	103°55·75'E
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[illegible]

Block for Chart No GSP1

Block for Chart No SP1

II

TEMPORARY AND PRELIMINARY NOTICES

***(NM 105T/2019)** : **DREDGING WORKS IN TEMASEK FAIRWAY**

Remarks : Dredging works are being carried out within the limits of Temasek Fairway.
(refer to Maritime and Port Authority of Singapore, Port Marine Notice 77/2019)

Working Period : With effect from 24 August 2019 to 23 February 2020,
24 hours daily including Sundays and Public Holidays

1. The working areas are bounded by the following geographical positions:

(WGS84 Datum)

Latitude (N)	Longitude (E)
1° 15·706'	103° 38·709'
1° 15·706'	103° 38·764'
1° 15·109'	103° 39·004'
1° 15·140'	103° 39·079'
1° 14·613'	103° 39·292'
1° 13·803'	103° 39·619'
1° 13·164'	103° 39·876'
1° 13·030'	103° 39·515'
1° 13·119'	103° 39·481'
1° 13·760'	103° 39·502'
1° 14·548'	103° 39·133'
1° 15·440'	103° 38·709'

2. Mariners are advised to refer to the latest Port Marine Notices available at the MPA website for the latest information and navigate with caution.

3. Navigational warning broadcast will be promulgated by Singapore VTIS on VHF Channel 22 and NAVTEX. Mariners are to maintain a listening watch.

Charts affected : Singaporean GSP1/SP1, 202, 500, 501, BA 4030, BA 4031, BA 4033, BA 4038 and BA 4040

Note: Former notice 97T/2019 is cancelled.

Source: Maritime and Port Authority of Singapore



II

TEMPORARY AND PRELIMINARY NOTICES

***(NM 106T/2019)** : **TEMASEK FAIRWAY TEMPORARY RE-ALIGNMENT**

Remarks : Temasek Fairway will be temporary re-aligned due to dredging works within fairway limits. (refer to Maritime and Port Authority of Singapore, Port Marine Notice 77/2019)

Working Period : With effect from 24 August 2019 to 23 February 2020, 24 hours daily

- . The re-aligned boundaries of Temasek Fairway are bounded by a line joining the following geographical positions:

(WGS84 Datum)

	Latitude (N)	Longitude (E)	
Temasek Fairway line joining:	1° 16.485'	103° 39.216'	Triton Buoy
	1° 15.955'	103° 39.216'	Jurong Empat Buoy
	1° 15.012'	103° 39.597'	Jurong Dua Buoy
	1° 14.310'	103° 39.938'	Jurong Satu Buoy
to:	1° 13.702'	103° 40.138'	

Source: Maritime and Port Authority of Singapore

II

TEMPORARY AND PRELIMINARY NOTICES

***(NM 107T/2019) : MAINTENANCE OF BANYAN BEACON**

Description :

1. Banyan Beacon at position 1°13·346'N 103°41·585'E has been removed for maintenance.
2. A temporary Isolated Danger buoy with light characteristic of Fl(2)10s has been installed at position 1°13·319'N 103°41·561'E.
3. Mariners are advised to navigate with caution.

Charts affected : Singaporean GSP1/SP1, 500, Dual Badged BA4031, BA4032, BA4039, BA4040

Source: Maritime and Port Authority of Singapore

***(NM 108T/2019) : MAINTENANCE OF SEBAROK BEACON**

Description :

1. Sebarok Beacon at position 1°11·872'N 103°48·433'E has been removed for maintenance.
2. A temporary Red Can buoy with light characteristic of Fl.R.5s has been installed at position 1°11·841'N 103°48·452'E.
3. Mariners are advised to navigate with caution.

Charts affected : Singaporean GSP1/SP1, 202, 501, Dual Badged BA4035, BA4036, BA4039, BA4040, BA4041

Source: Maritime and Port Authority of Singapore

II

TEMPORARY AND PRELIMINARY NOTICES

***(NM 109T/2019)** : **SEMAPHORE TOWER AT PULAU SATUMU - RAFFLES LIGHTHOUSE**

Description : The night mark signal (an isophase white 'X' every 10sec) to warn passing vessels of a VLCC crossing the Main Strait and bound for Shell Single Buoy Mooring (SBM) in position Latitude 1°09'65"N Longitude 103°44'47'E is out of service.

Charts affected : Singaporean GSP1/SP1, 202, 500, 501, Dual Badged BA4036, BA4039, BA4040

Source: Maritime and Port Authority of Singapore

III NAVIGATIONAL INFORMATION

*(NM 110/2019)

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>

PMN No.**Subject**

91/2019	Injector trial runs off south of Tuas View Extension
92/2019	Reclamation work at Pulau Tekong
93/2019	Mooring and unmooring of vessels off Pulau Tekong
94/2019	Reconstruction and repair for revetment at Tanjong Berlayar
99/2019	Construction of jetty at Tuas View
101/2019	Backfilling works off West Jurong Channel and Pesek Basin

PMC No.**Subject**

16/2019	Maritime and Port Authority of Singapore revokes Inter-Pacific Petroleum Pte Ltd's bunker craft operator licence
17/2019	Port dues rebate for vessels handling transshipment vehicles in Singapore
18/2019	Digital transformation of MPA One Stop Document Centre (OSDC) [Closure of OSDC service counters from 1 January 2020]

*Source: Maritime and Port Authority of Singapore

III AMENDMENTS TO PUBLICATIONS

*(NM 111/2019) UPDATING OF PUBLICATION “SINGAPORE PORT INFORMATION 2018/2019”

CHARACTERISTICS OF AIDS TO NAVIGATION

TUAS VIEW EXTENSION

1. Page 133

Amend the following:

Name of Beacon/ Buoy	Position Lat. N Long. E Deg Min	Structure, Colour & Shape	Light Characteristic	Owner
HD TWC 3 Buoy	01°19·406' 103°37·317'	Yellow pillar with 'X' topmark	Fl.Y.2s (sync)	Hyundai
HD TWC 4 Buoy	01°18·770' 103°36·987'	Yellow pillar with 'X' topmark	Fl.Y.2s (sync)	Hyundai
HD TWC 13 Buoy	01°19·033' 103°36·960'	Yellow pillar with 'X' topmark	Fl(4)Y.10s (sync)	Hyundai
HD TWC 14 Buoy	01°19·807' 103°37·428'	Yellow pillar with 'X' topmark	Fl(4)Y.10s (sync)	Hyundai

IV

REPRINT OF MARITIME SAFETY INFORMATION

The following Maritime Safety Information have been shortlisted, as they would be of particular interest to mariners.

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.

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.

TT363 (AMENDED ON 140821UTC APRIL 2019)

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.

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 BOARDING GROUND BRAVO.

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 ISLANDS & RAFFLES LIGHTHOUSE).

THEY ARE ADVISED TO BROADCAST, 8 HOURS BEFORE ENTERING THE TSS, NAVIGATING INFORMATION GIVING NAME, DEADWEIGHT, DRAUGHT, SPEED AND TIMES OF PASSING HORSBURGH LIGHTHOUSE AND RAFFLES LIGHTHOUSE.

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.

TT440

A NUMBER OF UNKNOWN VESSELS ARE OBSERVED ANCHORED IN THE TSS/PRECAUTIONARY AREA SOUTH OF TG. RAMUNIA AT APPROXIMATE POSITION LAT 01°17.91'N LONG 104°14.92'E. ALL VESSELS ARE ADVISED TO KEEP A GOOD LOOK OUT AND PROCEED WITH CAUTION WHEN PASSING THIS AREA IN THE SINGAPORE STRAIT.

TT527

RACON DELTA RADAR SIGNAL TRANSMISSION IN PROSITION LAT 01°03.60'N LONG 103°38.85'E IS REPORTED NOT WORKING. ALL VESSELS ARE ADVISED TO NAVIGATE WITH EXTRA CAUTION.

TT562

LAYING OF SUBSEA PIPELINE AT WEST JURONG CHANNEL AND PESEK BASIN FROM 20 JUN 2019 TO 30 OCT 2019. VESSELS ARE ADVISED TO NAVIGATE WITH CAUTION AND PROCEED AT SAFE SPEED IN THE AREA. PLEASE REFER TO PMN 059 OF 2019.

IV

REPRINT OF MARITIME SAFETY INFORMATION

TT574 (AMENDED ON 210915UTC)

BANYAN BEACON AT LAT 01°13.346'N LONG 103°41.585'E HAS BEEN REMOVED FOR MAINTENANCE. ISO DANGER BUOY HAVE BEEN INSTALLED AT LAT 01°13.319'N LONG 103°41.561'E. MARINERS ARE ADVISED TO NAVIGATE WITH CAUTION.

TT579

CONDUCTING OF SURVEY WORKS BOUNDED BY THE FOLLOWING COORDINATES FROM 10 SEP 2019 TO 03 NOV 2019.

A	01°20.28'N	104°24.29'E
B	01°20.28'N	104°24.79'E
C	01°19.63'N	104°24.79'E
D	01°19.63'N	104°24.13'E
E	01°20.14'N	104°24.13'E

VESSELS PASSING IN THE VICINITY ARE ADVISED TO GIVE A WIDE BERTH AND NAVIGATE WITH CAUTION.

TT580

TK (Takong KL) ISOLATED DANGER BUOY IN POSITION LAT 01°05.8'N LONG 103°43.6'E UNLIT. MARINERS ARE ADVISED TO NAVIGATE WITH CAUTION.

TT582 (AMENDED)

CABLE VESSEL ASEAN PROTECTOR IS CARRYING OUT CABLE LAYING WORKS FROM SOUTH OF TUAS VIEW EXTENSION AND INTO THE TSS AND PRECAUTIONARY AREA OF SECTOR 7 (VTIS WEST) OF THE SINGAPORE STRAIT FROM 09 OCT 2019 TO 28 MAR 2020. VESSELS ARE ADVISED TO NAVIGATE WITH CAUTION, PROCEED AT SAFE SPEED AND KEEP WELL CLEAR OF THE CABLE VESSEL.

TT586

SEBAROK BEACON HAS BEEN REPLACED WITH A RED CAN BUOY AT POSITION LAT 01°11.841'N, LONG 103°48.452'E. MARINERS ARE ADVISED TO NAVIGATE WITH CAUTION.

TT589 (AMENDED 29 OCT)

CABLE VESSEL "TENE0" IS CARRYING OUT CABLE REPAIR WORKS AT THE EDGE OF THE TSS EAST BOUND LANE OF SECTOR 7 AND 8 (VTIS WEST AND CENTRAL) OF THE SINGAPORE STRAIT FROM POSITION LAT 01°09.50'N LONG 103°26.93'E TO POSITION LAT 01°10.80'N LONG 103°50.71'E FROM 31 OCT 2019 TO 9 NOV 2019. VESSELS ARE ADVISED TO NAVIGATE WITH CAUTION, PROCEED AT A SAFE SPEED AND KEEP WELL CLEAR OF THE CABLE VESSEL.

TT590

THE SEMAPHORE TOWER "X" LIGHT AT RAFFLES LIGHTHOUSE IS UNDER MAINTENANCE. MARINERS ARE TO NAVIGATE WITH CAUTION.

TT591

REPORT OF ATTEMPTED UNAUTHORISED BOARDING ON 250515SGT OCTOBER 2019 IN POSITION 01°12.96'N 103°38.00'E. ALL VESSELS PASSING THE VICINITY ARE REQUESTED TO MAINTAIN A GOOD ANTI PIRACY WATCH.

TT592

SAFE WATER MARK BUOY (LFL.10S) IN POSN 01°03.00'N 103°39.03'E SOUTH OF RACON D, MARKING THE ENTRANCE TO THE DEEP WATER ROUTE IS REPORTED OUT OF POSN. ALL VESSELS ARE ADVISED TO NAVIGATE WITH CAUTION.

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.

IV
REPRINT OF MARITIME SAFETY INFORMATION

SR123 (AMENDED ON 170105UTC APRIL 2019)

ALL VESSELS ARE ADVISED TO MAINTAIN A CONSTANT VISUAL AND RADAR WATCH FOR SMALL CRAFT AND
REPORT ANY SUSPICIOUS ACTIVITIES IN THE SINGAPORE STRAIT TO VTIS SINGAPORE.

ISSUED BY SINGAPORE PORT OPERATIONS CONTROL CENTRE (as at 31st October 2019)

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>

5198 SINGAPORE - Rock.

Source: UKHO

Chart 4041 [*previous update New Edition 12/09/2019*] WGS84 DATUM

Insert  (13s) 1° 18·45'N, 103° 59·33'E

5280 SINGAPORE - Obstruction. Wrecks

Source: Joint Hydrographic Survey of the Straits of Malacca and Singapore

Chart 4038 [*previous update New Edition 15/08/2019*] WGS84 DATUM


Replace  Obstrn with  Wk 1° 12·94'N, 103° 34·63'E

Chart 4039 [*previous update New Edition 12/09/2019*] WGS84 DATUM

Replace  Wk with  Wk 1° 12·94'N, 103° 34·63'E

5418* SINGAPORE - Works. Buoy.

Source: Maritime and Port Authority of Singapore

Chart 4030 [*previous update 4778/19*] WGS84 DATUM


Insert maritime limit, pecked line, joining: (a) 1° 13·486'N, 103° 37·979'E

(b) 1° 13·486'N, 103° 38·384'E

Delete former maritime limit, pecked line, joining: (a) above
 1° 13·676'N, 103° 38·138'E

(c) 1° 13·676'N, 103° 38·290'E

(b) above

 Fl.Y.4s GMAPS01, close W of: (c) above

5457* SINGAPORE - Buoyage. Light-beacon.

Source: Maritime and Port Authority of Singapore



Chart 4038 [*previous update 5280/19*] WGS84 DATUM

Delete  Fl.G.2s PKHDB-17 1° 13·37'N, 103° 36·29'E

Chart 4039 [*previous update 5280/19*] WGS84 DATUM

Delete  Fl.G.2s PKHDB-17 1° 13·37'N, 103° 36·29'E

Chart 4040 [*previous update New Edition 15/08/2019*] WGS84 DATUM

Replace  Q(9)15s4m3M Jambi West, with  Q(9)15s4m3M 1° 12·18'N, 103° 47·62'E
 Jambi West

Delete  Fl.G.2s PKHDB-17 1° 13·37'N, 103° 36·29'E

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>

5461* SINGAPORE - Buoyage.

Source: Maritime and Port Authority of Singapore

Chart 4041 [*previous update 5198/19*] WGS84 DATUM

Insert	 <i>Oc(2)Y.6s NEA-WRM-EC</i>	1° 18·50'N, 103° 58·45'E
	 <i>Oc(2)Y.6s NEA-WRM-MP</i>	1° 17·67'N, 103° 55·23'E

Chart 4043 [*previous update 2588/19*] WGS84 DATUM








Insert	 <i>Oc(2)Y.6s NEA-WRM-CNB</i>	1° 19·85'N, 104° 02·54'E
	 <i>Oc(2)Y.6s NEA-WRM-EC</i>	1° 18·50'N, 103° 58·45'E
Delete	 <i>Fl.Y.4s TK-MB-4</i>	1° 22·13'N, 104° 02·52'E
	 <i>Fl.Y.4s TK-MB-3</i>	1° 22·01'N, 104° 02·67'E

Chart 4044 [*previous update 2588/19*] WGS84 DATUM

Insert	 <i>Oc(2)Y.6s NEA-WRM-CNB</i>	1° 19·85'N, 104° 02·54'E
Delete	 <i>Fl.Y.4s TK-MB-4</i>	1° 22·13'N, 104° 02·52'E
	 <i>Fl.Y.4s TK-MB-3</i>	1° 22·01'N, 104° 02·67'E

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>

5733(T)/19 SINGAPORE - Dredging area. Fairway.

Source: Maritime and Port Authority of Singapore

1. *Dredging works are taking place in the Temasek Fairway until 23 February 2020, within an area bounded by the following positions:
 - *1° 13·030'N, 103° 39·515'E
 - *1° 13·760'N, 103° 39·502'E
 - *1° 15·440'N, 103° 38·709'E
 - *1° 15·706'N, 103° 38·709'E
 - *1° 15·706'N, 103° 38·764'E
 - *1° 15·109'N, 103° 39·004'E
 - 1° 15·140'N, 103° 39·079'E
 - 1° 13·164'N, 103° 39·876'E
2. The limits of the fairway have been temporarily re-aligned to join the following positions :
 - 1° 13·702'N, 103° 40·138'E
 - 1° 14·310'N, 103° 39·938'E
 - *1° 15·012'N, 103° 39·597'E
 - 1° 15·955'N, 103° 39·216'E
 - *1° 16·485'N, 103° 39·216'E
3. Mariners are advised to navigate with caution in the area and consult the local port authorities for the latest information.
4. Former Notice 3868(T)/19 is cancelled.
 *Indicates new or revised entry.
 (WGS84 DATUM)

Charts affected - 4030 - 4031 - 4033 - 4038 - 4040

Update to Admiralty Notices to Mariners No. 45 of 2019 dated 7th November 2019

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 be 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 : (65) 6325 2027
Fax : (65) 6226 1076
Email : hydrographic@mpa.gov.sg

Sender's Contact Details :

Date :

Name of Vessel :

Address of Sender :

Tel : Fax :

Email :

Nature of Observation :

General Location :

Subject :

Position : Lat. Long.

Charts Used :

Date & Time of Observation :

Details :
.....
.....

Attachment :

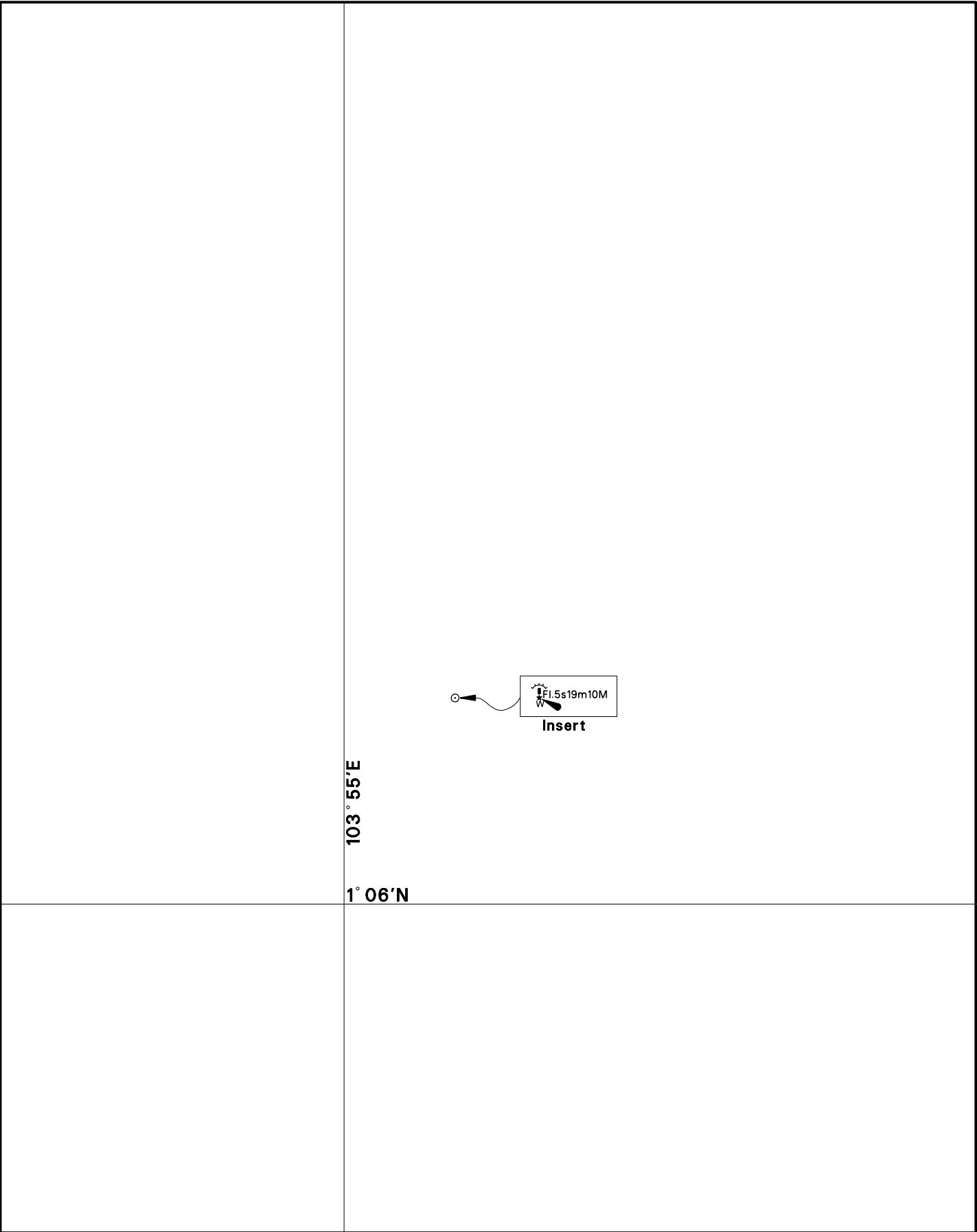
Equipment Used :

Type of Position Fixing : GPS / DGPS Others :

Type of Echo Sounder :

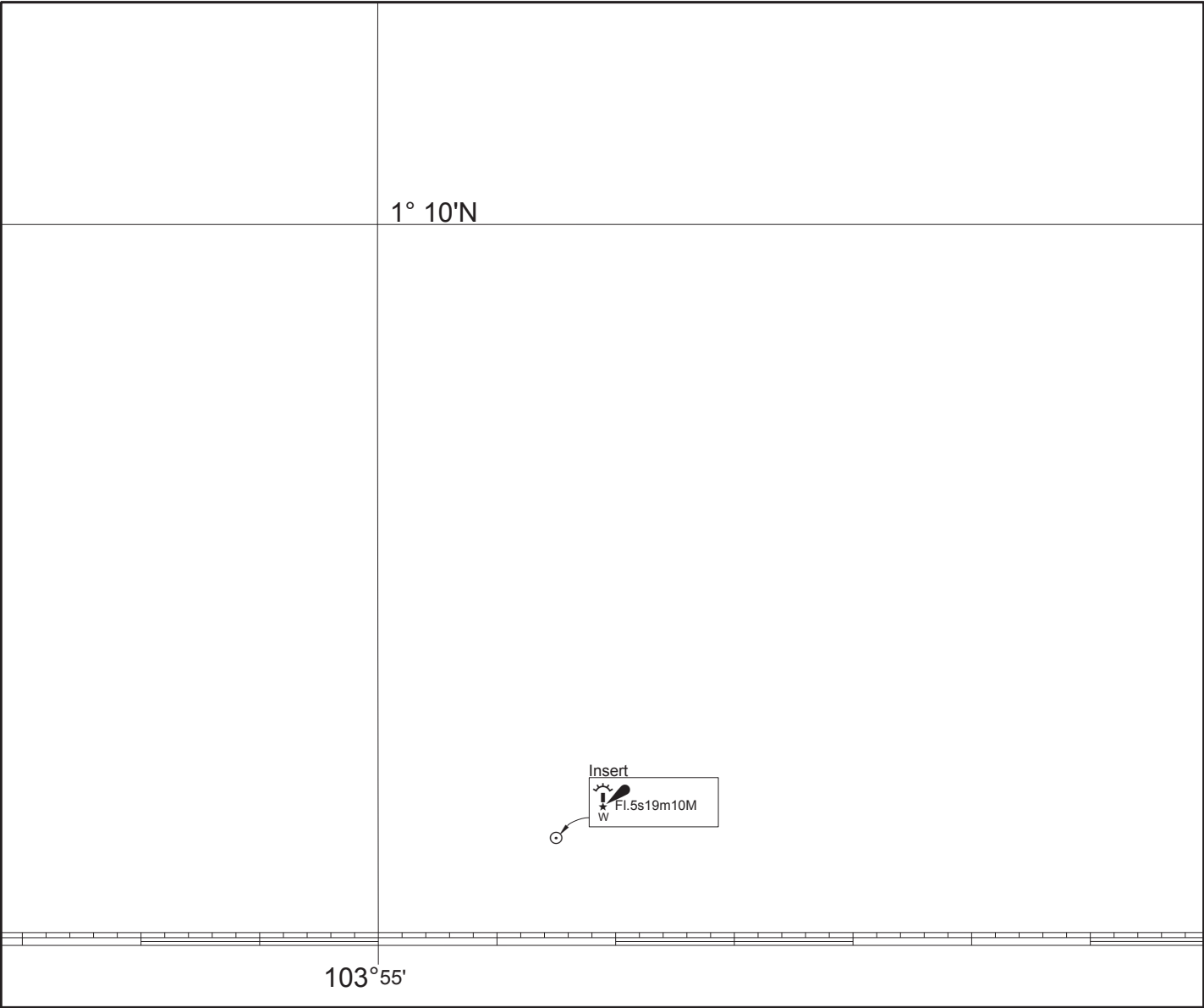
Name and Signature :

Ship's/Company's Stamp :



CORRECTION NO.	SNM EDN NO.	LAST CORR N NO.	CHART NO.	Location on Chart		
104	11/2019	96/2019	GSP1/SP1	X		

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



CORRECTION NO.	SNM EDN NO.	LAST CORR N NO.	CHART NO.	Location on Chart		
104	11/2019	-	502	X		

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