



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](#)
- [Singaporean ENC](#)
- [Malacca and Singapore Straits ENC](#)
- [Singapore Port Information](#)
- [Singapore Tide Tables](#)

Contact information:

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Maritime and Port Authority of Singapore

7B Keppel Road

#20-00 Tanjong Pagar Complex

Singapore 089055

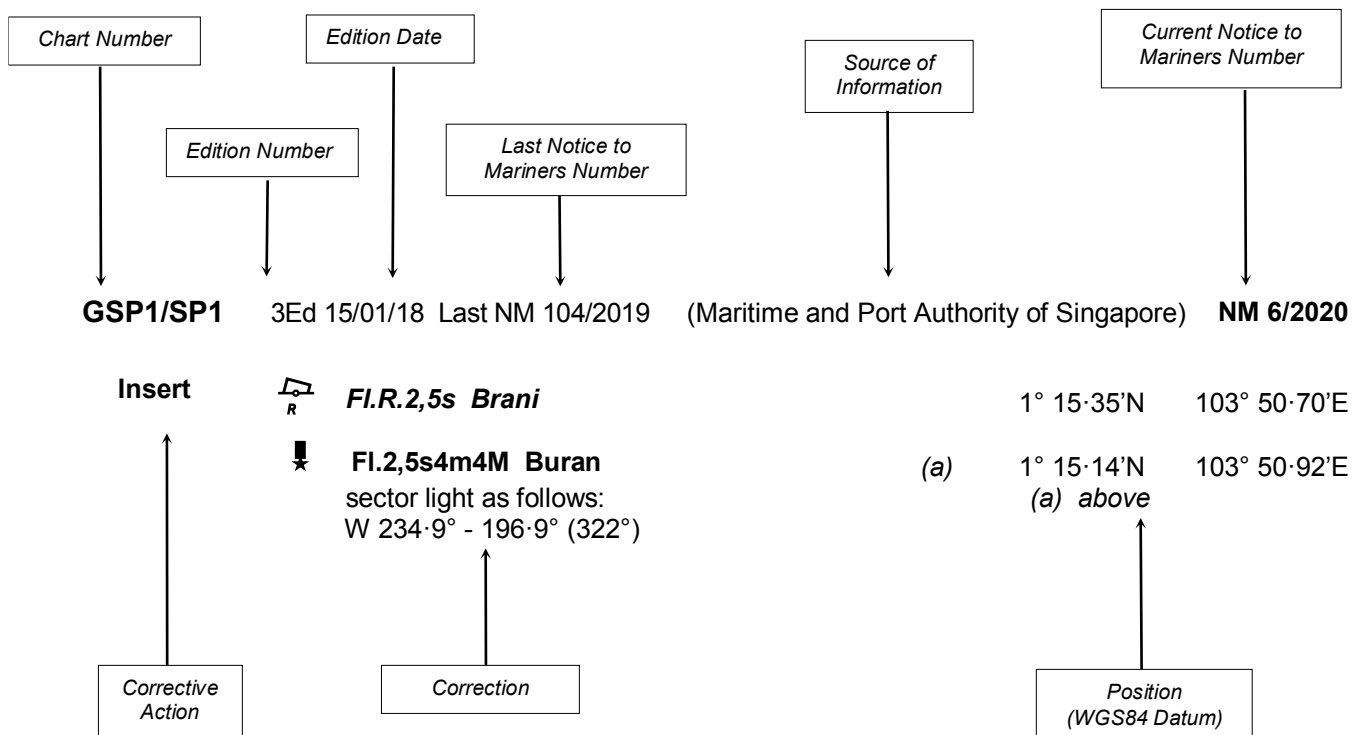
Tel : 1800 272 7777 / (65) 6272 7777

Fax : (65) 6226 1076

Email : hydrographic@mpa.gov.sg

EXPLANATION OF FORMAT

The elements of a typical chart correction are explained below.



Notes:

- Notice to Mariners number followed by:
T indicates a Temporary Notice (eg. **NM 9T/2020**).
P indicates a Preliminary Notice (eg. **NM 10P/2020**).
- Bearings are true reckoned clockwise from 000° to 359°; those relating to lights are from seaward.
- Heights and elevations are above Mean High Water Springs.
- # indicates where amendments are made.
- * indicates source from Maritime and Port Authority of Singapore.

I
AFFECTED CHARTS AND PUBLICATIONS

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*Source : Maritime and Port Authority of Singapore

I
AFFECTED CHARTS AND PUBLICATIONS

INDEX OF NOTICES

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*Source : Maritime and Port Authority of Singapore

II

NEW CHARTS AND PUBLICATIONS

NEW EDITION DUAL BADGED CHARTS PUBLISHED ON 5TH NOVEMBER 2020

Chart Number	: 4032
Title	: Port of Singapore Sinki Fairway
Coverage	: Lat 01° 12'25" N 01° 16'30" N Long 103° 40'20" E 103° 46'13" E
Scale	: 1 : 10 000
Date to be Published	: 5 th November 2020
Size of Chart	: 1100.0 x 746.4 mm
Description	: This new edition includes changes to aids to navigation, dredged depths of berths around Pasir Panjang and Pulau Bukom, updated surveys covering Sinki Fairway, Selat Pauh, East Jurong Channel and Jong Fairway.
	The existing chart of the same number published on 20 th September 2018 has been superseded.

Chart Number	: 4034
Title	: Port of Singapore East Jurong Channel, Pasir Panjang Terminal and West Keppel Fairway
Coverage	: Lat 01° 14'50" N 01° 18'55" N Long 103° 42'70" E 103° 48'60" E
Scale	: 1 : 10 000
Date to be Published	: 5 th November 2020
Size of Chart	: 1094.4 x 746.4 mm
Description	: This new edition includes changes to aids to navigation, vertical clearance for Cruise Bay, shoreline south of Pulau Damar Laut, dredged depths of berths around Pulau Damar Laut, northeast of Pulau Seraya, Sakra Basin and Pasir Panjang, updated surveys covering East Jurong Channel, Sinki Fairway and Western Anchorage.
	The existing chart of the same number published on 20 th September 2018 has been superseded.

NEW EDITION DUAL BADGED CHARTS PUBLISHED ON 12TH NOVEMBER 2020

Chart Number	: 4041
Title	: Singapore and Indonesia Pulau Sebarok to Changi
Coverage	: Lat 01° 07'40" N 01° 19'60" N Long 103° 46'90" E 104° 04'70" E
Scale	: 1 : 30 000
Date to be Published	: 12 th November 2020
Size of Chart	: 1100.6 x 749.5 mm
Description	: This new edition includes changes to aids to navigation, submarine cables, vertical clearance for Cruise Bay, shoreline east of Pulau Sebarok and south of Changi East, updated surveys covering Jong Fairway, Southern Fairway, Sisters Fairway, West Keppel Fairway, East Keppel Fairway, Buran Channel, South of Pulau Semakau, Pulau Sebarok, portion of western anchorages, portion of eastern anchorages, Changi East and Main Strait.
	The existing chart of the same number published on 12 th September 2019 has been superseded.

II

NEW CHARTS AND PUBLICATIONS

NEW EDITION SINGAPORE ENC RELEASED ON 5TH NOVEMBER 2020

ENC Name : SG5C4032

Location : Sinki Fairway

Coverage : Lat 01° 12'250' N 01° 16'300' N
Long 103° 40'640' E 103° 45'580' E

Compilation Scale : 1 : 8000

Date to be Released : 5th November 2020

Description : This new edition includes changes to aids to navigation, dredged depths of berths around Pulau Bukom, updated surveys covering Sinki Fairway, Selat Pauh, and East Jurong Channel.

The existing cell of the same name released on 20th September 2018 has been superseded.

ENC Name : SG5C4034

Location : East Jurong Channel, Pasir Panjang Terminal and West Keppel Fairway

Coverage : Lat 01° 16'300' N 01° 18'550' N
Long 103° 42'700' E 103° 46'360' E

Compilation Scale : 1 : 8000

Date to be Released : 5th November 2020

Description : This new edition includes changes to aids to navigation, shoreline south of Pulau Damar Laut, dredged depths of berths around Pulau Damar Laut, northeast of Pulau Seraya and Pasir Panjang, updated surveys covering East Jurong Channel and Sinki Fairway.

The existing cell of the same name released on 20th September 2018 has been superseded.

NEW EDITION SINGAPORE ENC RELEASED ON 12TH NOVEMBER 2020

ENC Name : SG5C4041

Location : Pulau Sebarok to Changi

Coverage : Lat 01° 07'400' N 01° 19'600' N
Long 103° 45'600' E 104° 04'700' E

Compilation Scale : 1 : 22 000





Date to be Released : 12th November 2020

Description : This new edition includes changes to aids to navigation, submarine cables, shoreline south of Changi East, updated surveys covering portion of eastern anchorages and Main Strait.

The existing cell of the same name released on 12th September 2019 has been superseded.

II

NOTICES TO MARINERS AND CHART CORRECTIONS

GSP1/SP1	4 Ed 15/02/20 Last NM 75/2020	(BA4041 Ed 15)	NM 79/2020
Amend	light to, <i>Fl.G</i>	1°09·91' N	103°58·79' E
	(Maritime and Port Authority of Singapore)		NM 80/2020
Insert	 <i>Fl.G.3s</i> <i>EM-Pesek1</i>	1°17·46' N	103°41·86' E
	 <i>Fl.G.3s</i> <i>EM-Pesek2</i>	1°17·36' N	103°41·79' E
<hr/>			
200	4 Ed 01/09/15 Last NM 56/2020 (Marine Department Malaysia Notice no. 277/2020)		NM 81/2020
Insert	 <i>Wk</i>	2°43·18' N	101°17·06' E
<hr/>			
202	8 Ed 15/09/16 Last NM 58/2020 (Indonesian Notice to Mariners no. 46/562/2020)		NM 82/2020
Insert		1°04·71' N	104°08·27' E
<hr/>			
502	8 Ed 12/09/19 Last NM 74/2020	(BA4041 Ed 15)	NM 79/2020
Amend	light to, <i>Fl.G</i>	1°09·91' N	103°58·79' E

II

TEMPORARY AND PRELIMINARY NOTICES

***(NM 83T/2020) VESSEL REPORTED GROUNDED OFF BATU BERHANTI - SINGAPORE STRAIT.**

Description : Vessel 'TINA I' is reported grounded off Batu Berhanti

Position of vessel : **Latitude** 01°11·200'N
Longitude 103°52·820'E

Remark : Mariners are advised to navigate with caution.

Charts affected : Singaporean 202, 501, and 502
Dual-Badged BA4041

Source : Maritime and Port Authority of Singapore

II

TEMPORARY AND PRELIMINARY NOTICES

Cancelled Temporary and Preliminary Notices

Nil

III NAVIGATIONAL INFORMATION

*(NM 84/2020) 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:

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

PMC No. Subject

42/2020 Further enhancements to crew change for cargo ships in the Port of Singapore

PMN No. Subject

76/2020 Installation of floating sea barrier in Selat Sengkir

77/2020 Construction works at Sungei Pandan

80/2020 Construction of jetty at Tuas View

81/2020 Dredging works in Temasek Fairway for Tuas Terminal Phase 2

*Source: Maritime and Port Authority of Singapore

III AMENDMENTS TO PUBLICATIONS

*(NM 85/2020) UPDATING OF PUBLICATION “SINGAPORE PORT INFORMATION 2020/2021”

DEPTHS OF RIVERS AND BASINS

1. Page 111
Amend the following:

LOCATIONS	DEPTHS (m)	REMARKS
Banyan Basin	16·1 [#]	

CHARACTERISTICS OF AIDS TO NAVIGATION

2. Page 135
WEST JURONG CHANNEL
Insert the following:

Name of Beacon / Buoy	Position Lat. N Long. E Deg Min	Structure, Colour & Shape	Light Characteristic	Owner
EM-Pesek1 buoy	01°17·462' 103°41·859'	Green conical	Fl.G.3s	JTC
EM-Pesek2 buoy	01°17·355' 103°41·789'	Green conical	Fl.G.3s	JTC

3. Page 140
SELAT PAUH
Amend the following:

Name of Beacon / Buoy	Position Lat. N Long. E Deg Min	Structure, Colour & Shape	Light Characteristic	Owner
Gerita Beacon	01°13·417' 103°43·483'	Double black spheres on red box on red pile, black band at bottom [#]	Fl(2)W.10s8m4M	MPA

WHARVES AND BERTHS

4. Page 172
55 CAFHI JETTY - TANJONG CHANGI (1°23·4'N, 103°59·9'E)
Amend the following:

Berth	Length of Berth Box	Max LOA	Depth Alongside (Year Surveyed)	Controlling Depth In Approaches
OCAF1	170m	140m	7·9m (2020) [#]	6·5m

FEEDBACK FORM

5. Page 209
Amend the following:

Tel No. : 1800 272 7777 / (65) 6272 7777 Fax No. : (65) 6226 1076 Email : hydrographic@mpa.gov.sg
--

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 POT 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 EASTERN 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 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.

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.

TT641 (AMENDED ON 181430UTC MAY 2020).

CONTAINER VESSEL SHAHRAZ/EPBR2 WAS REPORTED GROUNDING AT BATU BERHANTI, APPROXIMATE POSITION LAT 01°11'283"N LONG 103°52'867"E ON 101905UTC MAY 2020. ALL VESSELS ARE ADVISED TO KEEP WELL CLEAR WHEN PASSING THE VICINITY.

TT642

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

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.

IV

REPRINT OF MARITIME SAFETY INFORMATION

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

TT672

CONDUCTING OF SURVEY WORKS BOUNDED BY THE FOLLOWING COORDINATES FROM 05 SEPTEMBER 2020 TO 30 NOVEMBER 2020.

A 01°19·63'N 104°24·13'E

B 01°20·14'N 104°24·13'E

C 01°20·28'N 104°24·29'E

D 01°20·28'N 104°24·51'E

E 01°20·06'N 104°24·78'E

F 01°19·63'N 104°24·73'E

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

TT702

THERE IS A REPORT OF UNAUTHORISED BOARDING ON 17 NOV 2020 AT 2255LT IN POSITION LAT 01°15·19'N LONG 104°04·34'E. MARINERS ARE ADVISED TO KEEP A GOOD LOOK OUT AND MAINTAIN ANTI-PIRACY WATCH.

TT703

THERE IS A REPORT OF UNAUTHORISED BOARDING ON 19 NOV 2020 AT 0512LT IN POSITION LAT 01°16·67'N LONG 104°14·45'E. MARINERS ARE ADVISED TO KEEP A GOOD LOOK OUT AND MAINTAIN ANTI-PIRACY WATCH.

TT705 (ON 221537UTC NOV 2020)

CONTAINER VESSEL TINA I / 5BYH4 WAS REPORTED GROUNDED AT BATU BERHANTI, APPROXIMATE POSITION LAT 01°11·200'N LONG 103°52·820'E ON 221537UTC NOV 2020. ALL VESSELS ARE ADVISED TO KEEP WELL CLEAR WHEN PASSING THE VICINITY.

TT706

NOTICE TO MARINERS FROM MALAYSIA MARINE DEPARTMENT. MARINERS ARE ADVISED THAT PUTRI SEA ISOLATED DANGER MARK LIGHT BUOY WAS DESTROYED. POSITION LAT 01°17·880'N LONG 104°07·240'E LIGHT CHARACTERISTIC FL(2).W.10S MARINERS ARE ADVISED TO NAVIGATE WITH CAUTION IN THE AREA.

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.

SR123 (AMENDED ON 100800UTC JUNE 2020).

SEA ROBBERIES ARE REPORTED IN THE SINGAPORE STRAIT. MARINERS ARE 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 30th Nov 2020)

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>

5406(P)/20 SINGAPORE - Buoyage.

Source: Maritime and Port Authority of Singapore

1. Special light buoys have been removed from the following positions:
1° 15·261'N 103° 45·311'E
1° 15·544'N 103° 44·786'E
2. These changes will be included in New Editions of Chart 4032 and 4034 to be published late 2020.
(WGS84 DATUM)

Charts affected - 4032 - 4034

5496 SINGAPORE - Obstruction. Rock.

Source: Maritime and Port Authority of Singapore

Chart 4043 [*Previous update 5102/20*] WGS84 DATUM


Insert	 <i>Obstn</i>	1° 20·22'N	104° 02·06'E
Replace	+ (12 ₉), with (12 ₇)	1° 23·35'N	104° 00·77'E

Chart 4044 [*Previous update 2549/20*] WGS84 DATUM

Insert	 <i>Obstn</i>	1° 20·22'N	104° 02·06'E
Replace	+ (12 ₉), with (12 ₇)	1° 23·35'N	104° 00·77'E

Updated to Notices to Mariners No. 48 of 2020 dated 26 November 2020

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 : 1800 272 7777 / (65) 6272 7777
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 :

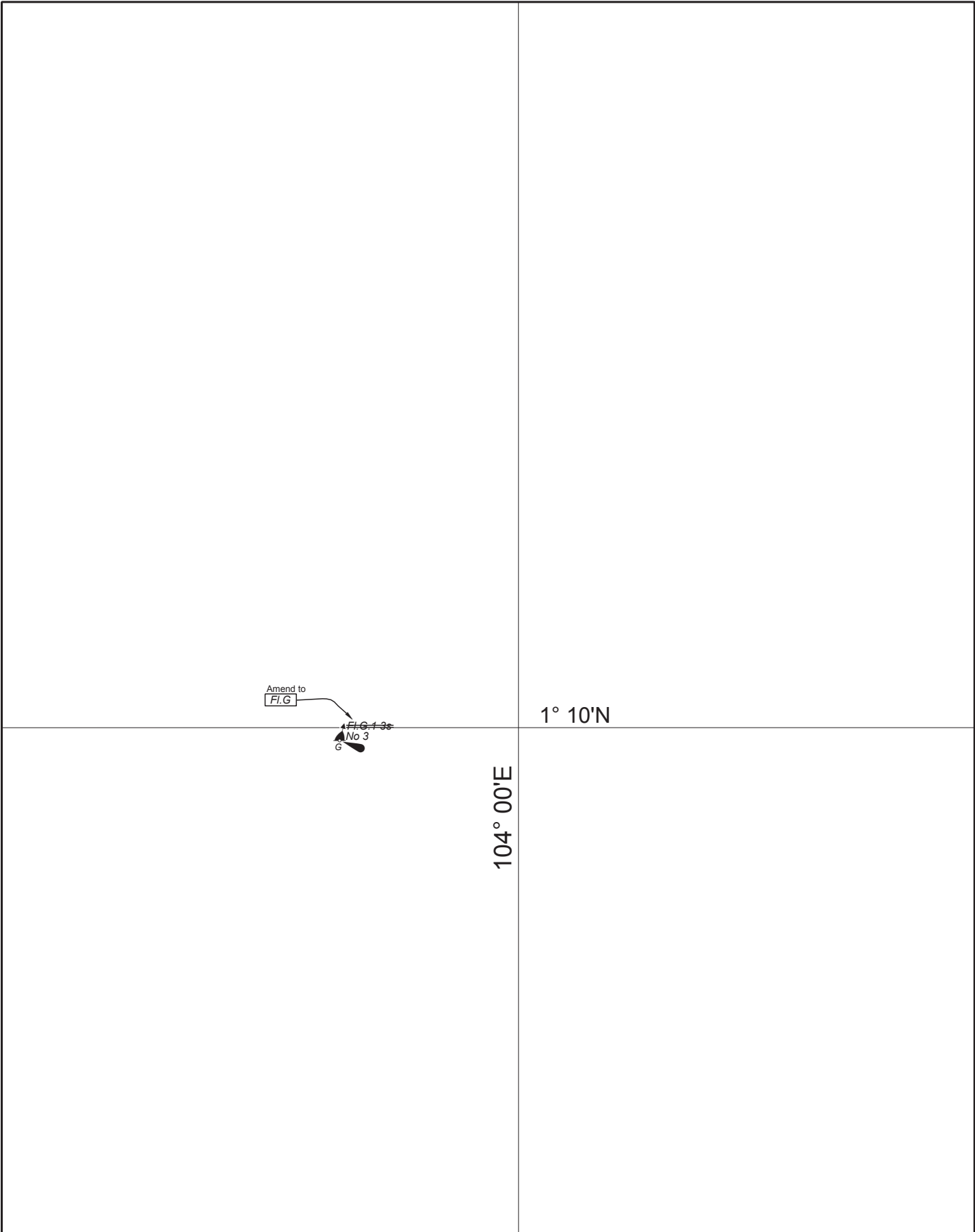
Equipment Used :

Type of Position Fixing : GPS / DGPS Others :

Type of Echo Sounder :

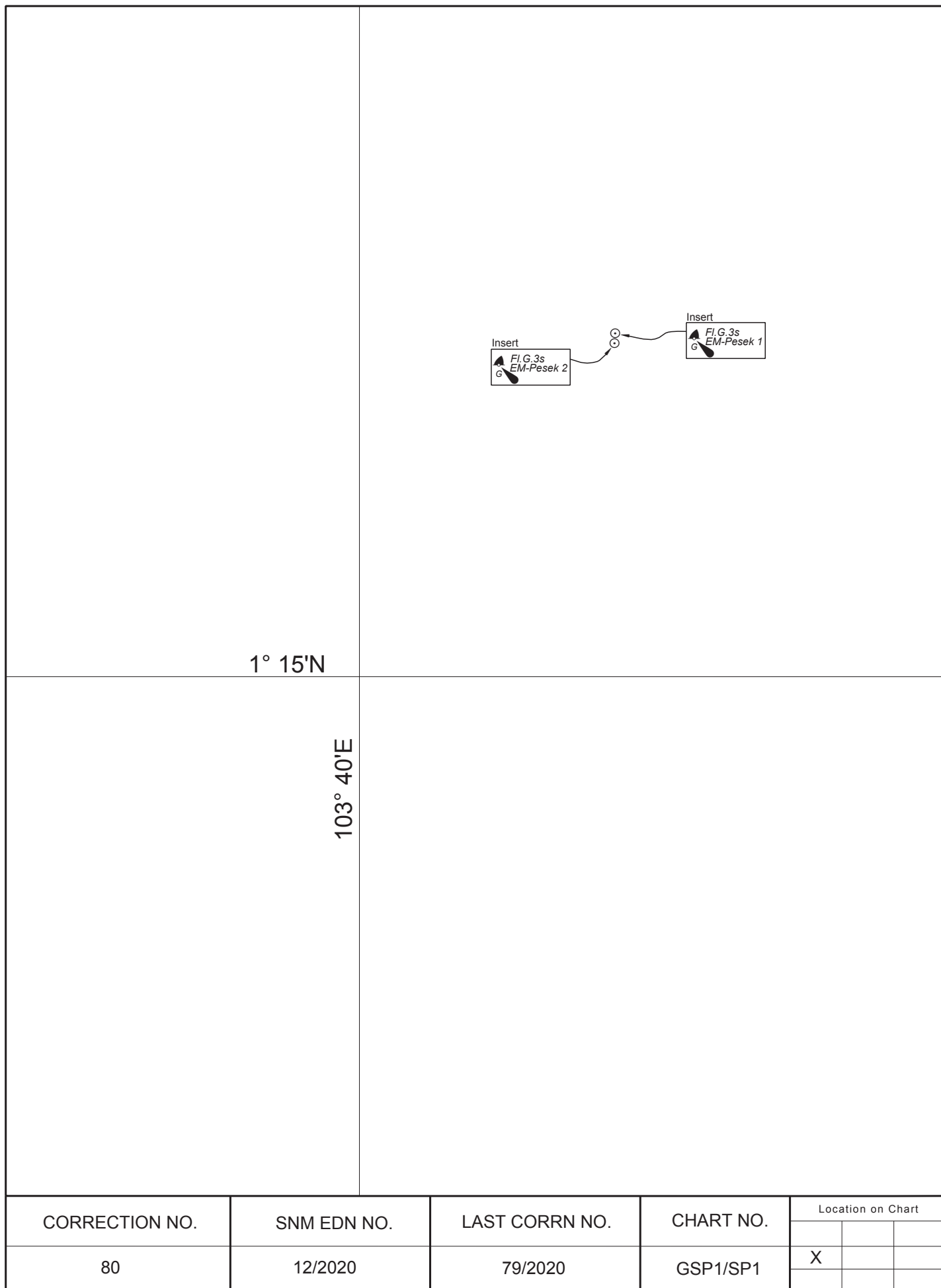
Name and Signature :

Ship's/Company's Stamp :

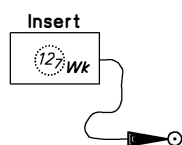


CORRECTION NO.	SNM EDN NO.	LAST CORR N NO.	CHART NO.	Location on Chart		
79	12/2020	75/2020	GSP1/SP1			X

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



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



101° 20' E

2° 40' N

CORRECTION NO.	SNM EDN NO.	LAST CORR NO.	CHART NO.	Location on Chart		
81	12/2020	56/2020	200		X	

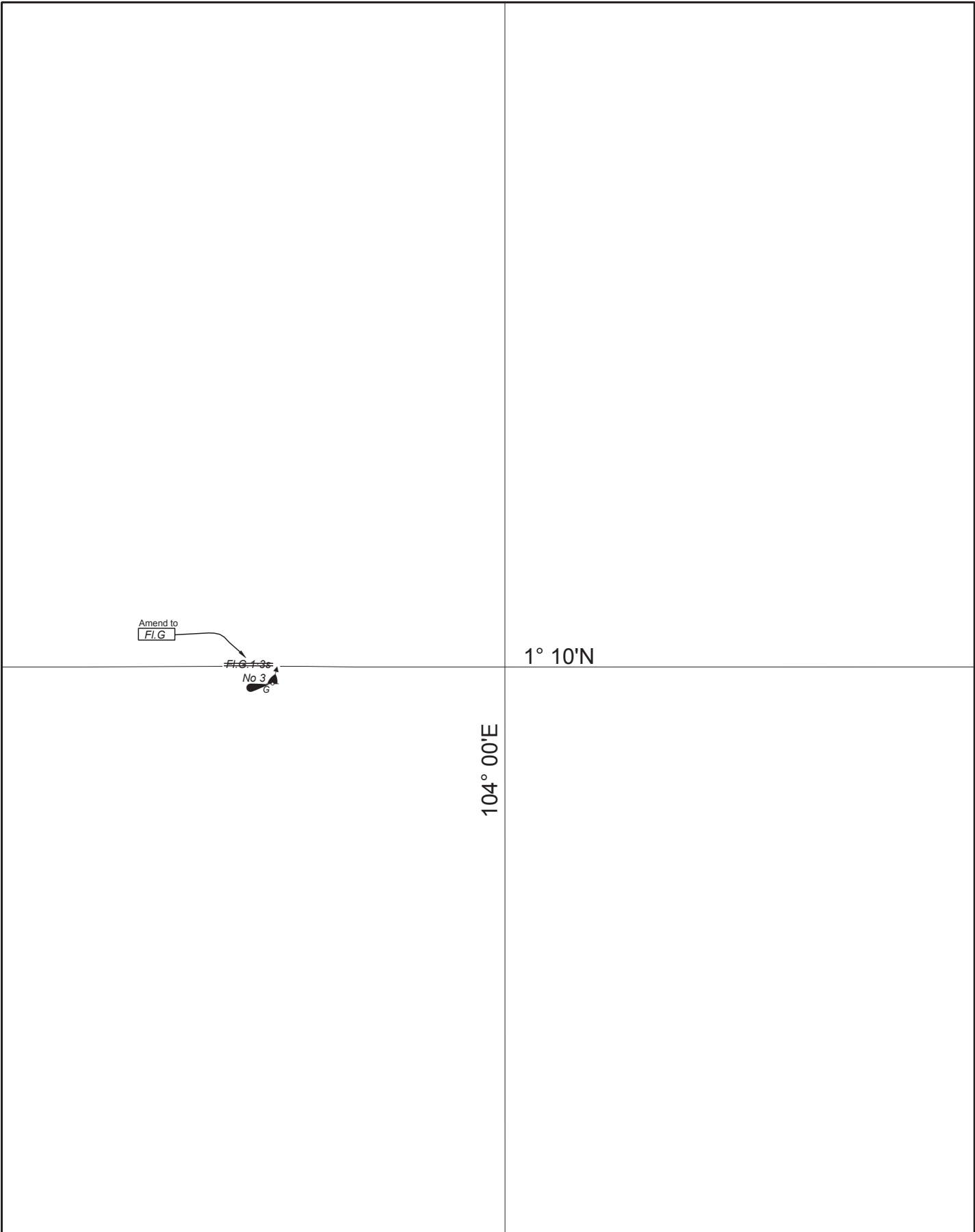
Caution: some computer printers might distort the tracings.
Users are advised to check and, if necessary, adjust settings on the printer



1° 00' N
104° 00' E

CORRECTION NO.	SNM EDN NO.	LAST CORR N NO.	CHART NO.	Location on Chart		
82	12/2020	58/2020	202			
					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		
79	12/2020	74/2020	502	X		

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