



## 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](http://www.mpa.gov.sg)

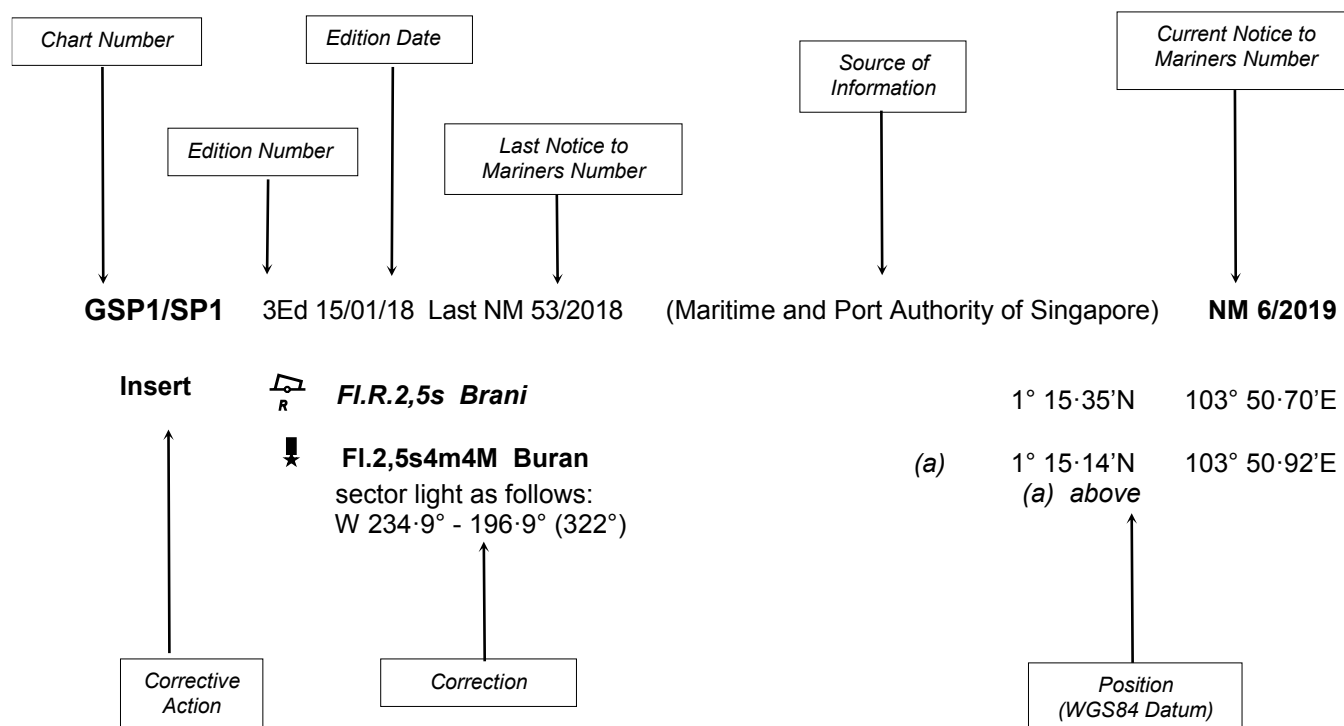
- [Singaporean Notice to Mariners](#)
- [Singaporean Charts](#)
- [Dual-Badged Charts](#)
- [Singapore ENC](#)
- [Malacca and Singapore Straits ENC](#)
- [Singapore Port Information](#)
- [Singapore Tide Tables](#)

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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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New Charts and Publications	-	3 - 7
Singaporean Chart GSP1/SP1	*91, *92, *93, *94, *95, *96	8
Singaporean Chart 500	*91, *92, *95, *96	9
Singaporean Chart 501	*91, *92, *95, *96	9
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Temporary and Preliminary Notices	*97T	10 - 12
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\*Source: Maritime and Port Authority of Singapore

I  
**AFFECTED CHARTS AND PUBLICATIONS**

**INDEX OF NOTICES**

<b>NOTICE NO.</b>	<b>DESCRIPTION</b>	<b>PAGE NO.</b>
-	New Charts and Publications	3 - 7
*91, *92, *93, *94, *95, *96	Singaporean Chart GSP1/SP1	8
*91, *92, *95, *96	Singaporean Chart 500	9
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*97T	Temporary and Preliminary Notices	10 - 12
*98	Singapore Port Marine Notices/Circulars	13
*99	Amendments to Publications	14 - 16
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\*Source: Maritime and Port Authority of Singapore

## II

## NEW CHARTS AND PUBLICATIONS

NEW EDITION DUAL BADGED CHARTS PUBLISHED ON 15<sup>TH</sup> AUGUST 2019

<b>Chart Number</b>	:	4038
<b>Title</b>	:	Malaysia and Singapore Johor Strait - Western Part
<b>Coverage</b>	:	Lat 01° 10-80' N      01° 28-70' N Long 103° 28-60' E      103° 40-70' E
<b>Scale</b>	:	1 : 30 000
<b>Date to be Published</b>	:	15 <sup>th</sup> August 2019
<b>Size of Chart</b>	:	750.6 x 1100.2 mm
<b>Description</b>	:	This new edition includes revised anchorages, fairways, updated bathymetry and topography details covering Sudong, Jurong Island and western part of Johor Strait, including bathymetry details in the TSS from the Joint Survey in the Strait of Malacca and Singapore
		The existing chart of the same number published on 25 <sup>th</sup> February 2016 has been superseded.

<b>Chart Number</b>	:	4040
<b>Title</b>	:	Singapore, Indonesia and Malaysia Tuas View to Pulau Sakijang Bendera (S. John's Island)
<b>Coverage</b>	:	Lat 01° 07-40' N      01° 19-60' N Long 103° 34-10' E      103° 51-90' E
<b>Scale</b>	:	1 : 30 000
<b>Date to be Published</b>	:	15 <sup>th</sup> August 2019
<b>Size of Chart</b>	:	1100.6 x 749.5 mm
<b>Description</b>	:	This new edition includes revised anchorages, channel, fairways, updated bathymetry and topography details covering West Keppel Fairway, Sudong, Jurong Island, Tuas View to Pulau Sakijang Bendera, including bathymetry details in the TSS from the Joint Survey in the Straits of Malacca and Singapore.
		The existing chart of the same number published on 4 <sup>th</sup> May 2017 has been superseded.

## II NEW CHARTS AND PUBLICATIONS

### NEW EDITION SINGAPORE ENC RELEASED ON 15<sup>TH</sup> AUGUST 2019

<b>ENC Name</b>	:	SG5C4038
<b>Location</b>	:	Johor Strait - Western Part
<b>Coverage</b>	:	Lat 01° 13·70' N      01° 31·20' N Long 103° 34·10' E      103° 46·34' E
<b>Compilation Scale</b>	:	1 : 22 000
<b>Date Released</b>	:	15 <sup>th</sup> August 2019
<b>Description</b>	:	This new edition includes updated bathymetry and topography details covering western part Singapore and Johor Strait.

The existing cell of the same name released on 17<sup>th</sup> July 2017 has been superseded.

## II

## NEW CHARTS AND PUBLICATIONS

SINGAPORE TIDE TABLES YEAR 2020 TO BE PUBLISHED ON 30<sup>TH</sup> SEPTEMBER 2019**Summary of Publication**

This publication contains Tidal Height and Tidal Stream Predictions covering stations in Singapore Port Waters and along the Straits of Malacca and Singapore.

This publication consists of 5 segments.

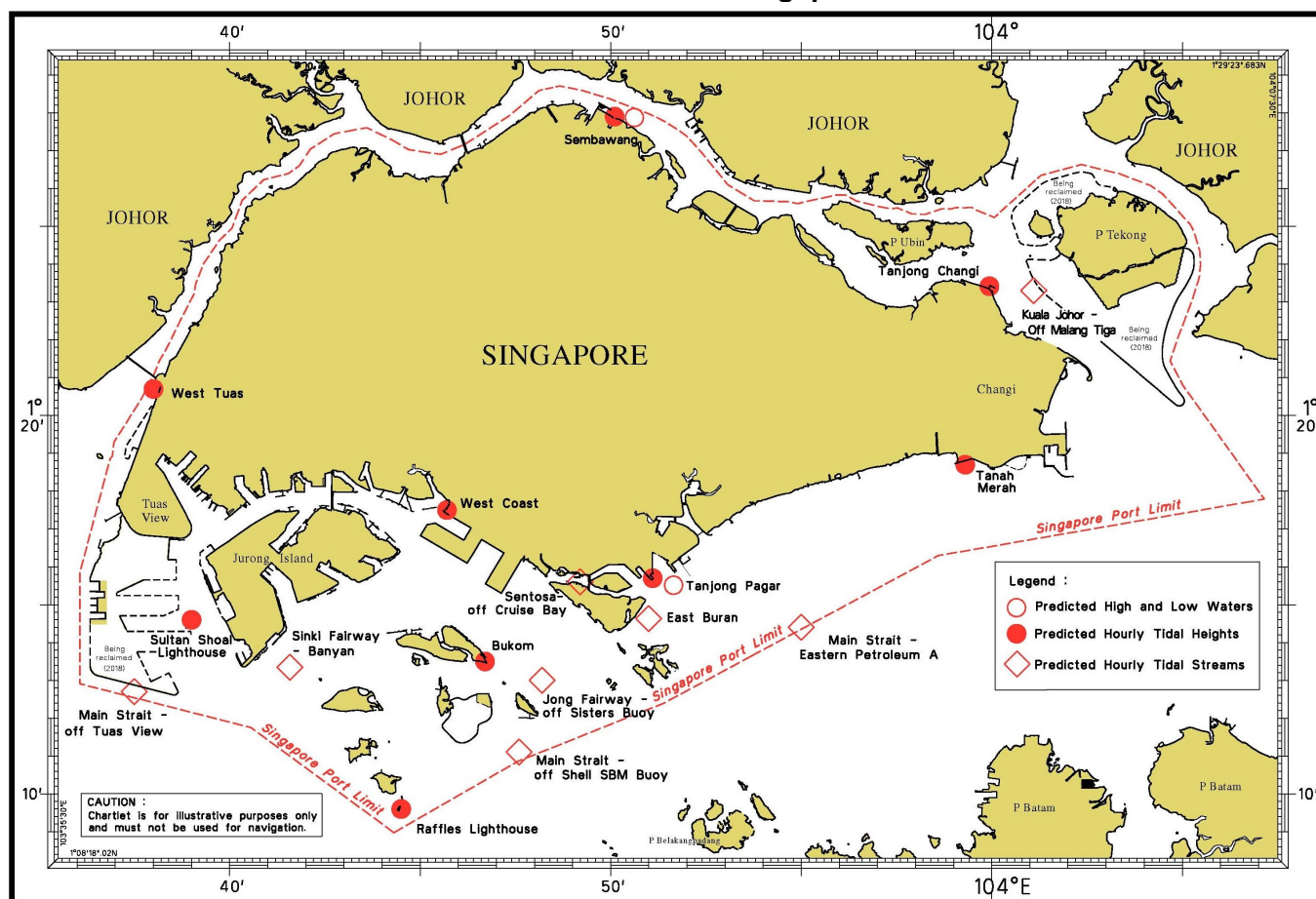
1. **High and Low Water Predictions** at the following stations:
  - a) Tanjong Pagar
  - b) Sembawang
2. **Hourly Tidal Height Predictions** at the following stations:
  - a) West Tuas
  - b) Sultan Shoal Lighthouse
  - c) Raffles Lighthouse
  - d) West Coast
  - e) Bukom
  - f) Tanjong Pagar
  - g) Tanah Merah
  - h) Tanjong Changi
  - i) Sembawang
  - j) Singapore Strait - Horsburgh Lighthouse
3. **Hourly Tidal Stream Predictions** at the following stations:
  - a) Main Strait - off Tuas View
  - b) Sinki Fairway - Banyan
  - c) Jong Fairway - off Sisters Buoy
  - d) Main Strait - off Shell SBM Buoy
  - e) Sentosa - off Cruise Bay
  - f) East Buran
  - g) Main Strait - Eastern Petroleum A
  - h) Kuala Johor - off Malang Tiga
4. **Maximum and Slack Tidal Stream Predictions** at the following stations:
  - a) Malacca Strait - off Pulau Iyu Kecil Light
  - b) Singapore Strait - Selat Phillip
  - c) Singapore Strait - Karang Banteng (Buffalo Rock)
  - d) Singapore Strait - Horsburgh Lighthouse
5. **Malacca Strait - High and Low Water Predictions** at the following stations:
  - a) Kedah Pier, Pulau Pinang
  - b) Port Dickson
  - c) Kuala Batu Pahat

The locations of the above stations are shown in the chartlets below:

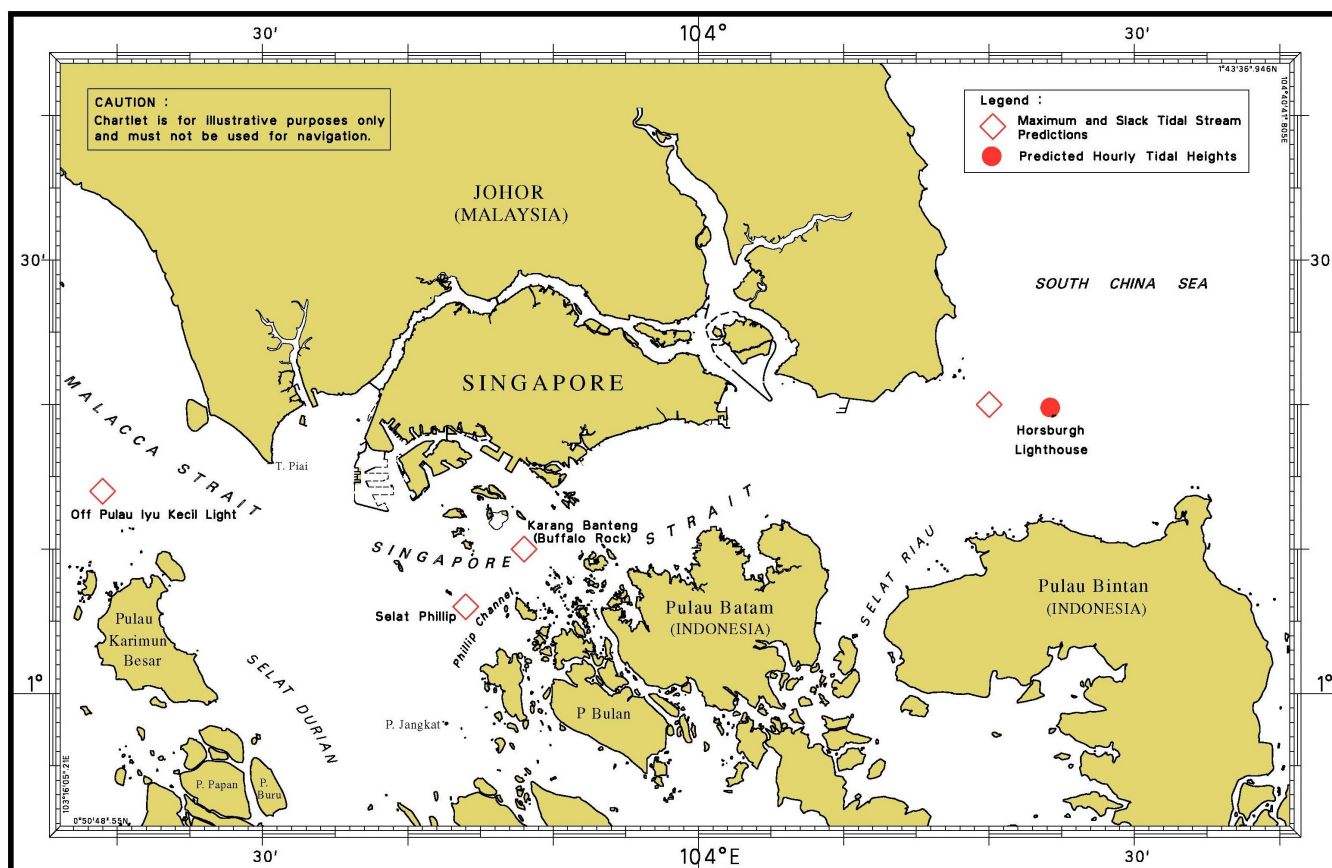
## II

## NEW CHARTS AND PUBLICATIONS

## Tidal Prediction Stations within Singapore Port Waters



## Tidal Prediction Stations in Straits of Malacca and Singapore

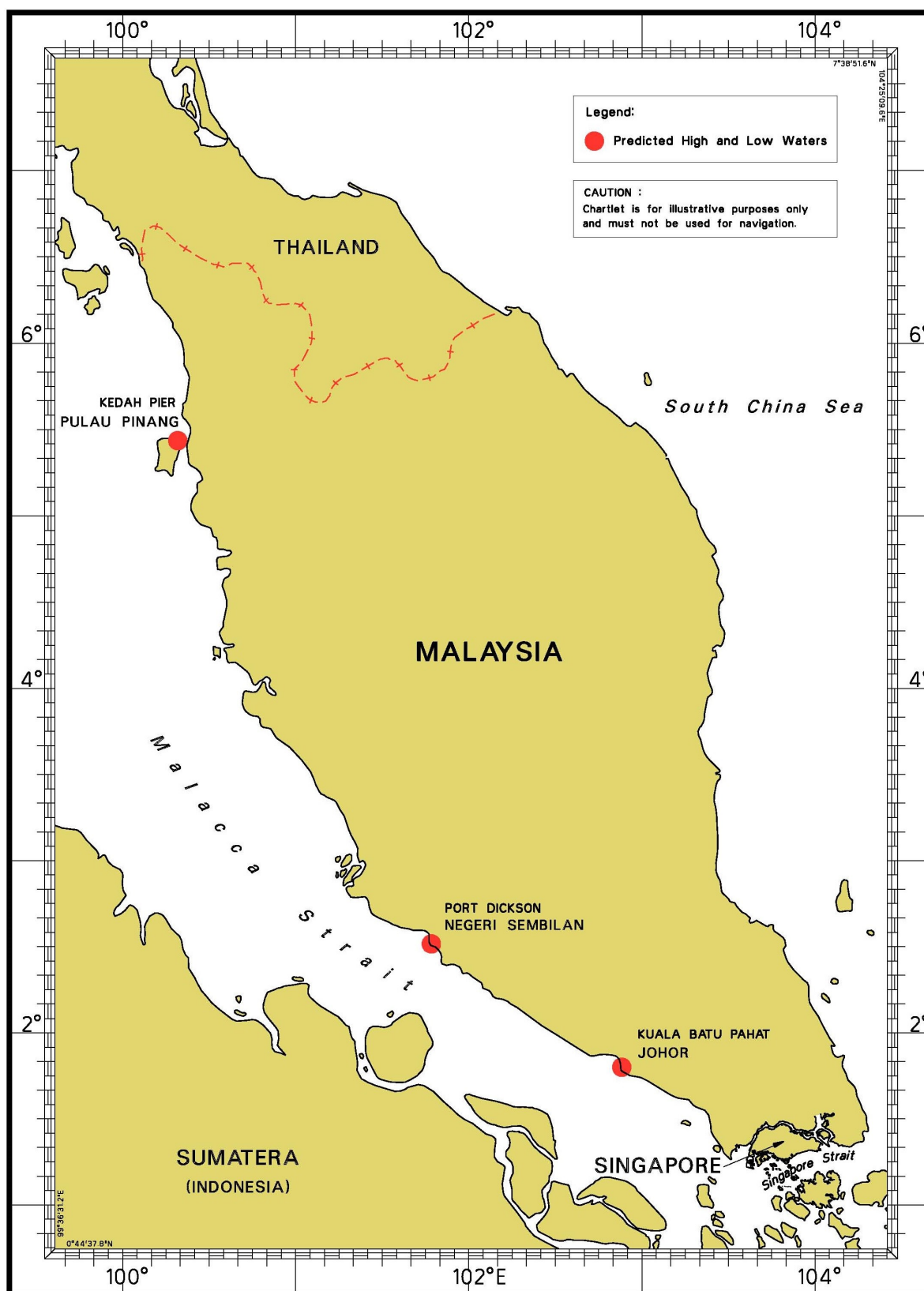




## II

### NEW CHARTS AND PUBLICATIONS

#### Tidal Prediction Stations In Malacca Strait















This publication can be purchased from any of the MPA appointed Chart Distributors.

Information on the MPA appointed Chart Distributors can be found from the following link:

<http://www.mpa.gov.sg/web/portal/home/media-centre/publications/singapore-tide-tables>









## II

## NOTICES TO MARINERS AND CHART CORRECTIONS

<b>GSP1/SP1</b>	3 Ed 15/1/18	Last NM 83/2019	(Maritime and Port Authority of Singapore)	<b>NM 91/2019</b>
<b>Delete</b>	 <i>Fl.G.2s PKHDB-17</i>		1°13·37'N	103°36·29'E
		(Maritime and Port Authority of Singapore)		<b>NM 92/2019</b>
<b>Delete</b>	 <i>Fl.Y.4s GMAPS01</i>		1°13·68'N	103°38·29'E
		(Maritime and Port Authority of Singapore)		<b>NM 93/2019</b>
<b>Delete</b>	 <i>Fl.Y.4s TK-MB-3</i>		1°22·01'N	104°02·67'E
	 <i>Fl.Y.4s TK-MB-4</i>		1°22·13'N	104°02·52'E
		(Maritime and Port Authority of Singapore)		<b>NM 94/2019</b>
<b>Insert</b>	 <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
	 <i>Oc(2)Y.6s NEA-WRM-MP</i>		1°17·67'N	103°55·23'E
		(Maritime and Port Authority of Singapore)		<b>NM 95/2019</b>
<b>Move</b>	 <i>Fl.R.2s Temasek</i>	from:	1°13·78'N	103°39·50'E
		to:	1°13·80'N	103°39·62'E
	 <i>Fl(2)R.5s</i>	from:	1°15·16'N	103°39·13'E
		to:	1°15·14'N	103°39·08'E
	 <i>Fl(3)R.15s</i>	from:	1°14·10'N	103°39·41'E
		to:	1°14·61'N	103°39·29'E
	 <i>Fl.G.2s Jurong Satu</i>	from:	1°14·05'N	103°39·99'E
		to:	1°14·31'N	103°39·94'E
	 <i>Q(9)15s Jurong Empat</i>	from:	1°15·90'N	103°39·22'E
		to:	1°15·95'N	103°39·22'E
		(Maritime and Port Authority of Singapore)		<b>NM 96/2019</b>
<b>Delete</b>	limit of working area, pecked line, joining:	(a)	1°13·49'N	103°37·98'E
			1°13·68'N	103°38·14'E
			1°13·68'N	103°38·29'E
		(b)	1°13·49'N	103°38·38'E
<b>Insert</b>	limit of working area, pecked line, joining:	(a)	above	
		(b)	above	

## II

## NOTICES TO MARINERS AND CHART CORRECTIONS

<b>500</b>	8 Ed 15/9/17	Last NM 85/2019	(Maritime and Port Authority of Singapore)	<b>NM 91/2019</b>
<b>Delete</b>	 <i>Fl. G. 2s</i>		1°13·37'N 103°36·29'E	
			(Maritime and Port Authority of Singapore)	<b>NM 92/2019</b>
<b>Delete</b>	 <i>Fl. Y. 4s</i>	<i>GMAPS01</i>	1°13·68'N 103°38·29'E	
			(Maritime and Port Authority of Singapore)	<b>NM 95/2019</b>
<b>Move</b>	 <i>Fl. R. 2s</i>	<i>Temasek</i>	from: 1°13·78'N 103°39·50'E to: 1°13·80'N 103°39·62'E	
			(Maritime and Port Authority of Singapore)	<b>NM 96/2019</b>
<b>Delete</b>	limit of working area, pecked line, joining:	(a)	1°13·49'N 103°37·98'E 1°13·68'N 103°38·14'E 1°13·68'N 103°38·29'E	
		(b)	1°13·49'N 103°38·38'E	
<b>Insert</b>	limit of working area, pecked line, joining:	(a)	above	
		(b)	above	
<hr/>				
<b>501</b>	7 Ed 1/9/15	Last NM 83/2019	(Maritime and Port Authority of Singapore)	<b>NM 91/2019</b>
<b>Delete</b>	 <i>Fl. G. 2s</i>		1°13·37'N 103°36·29'E	
			(Maritime and Port Authority of Singapore)	<b>NM 92/2019</b>
<b>Delete</b>	 <i>Fl. Y. 4s</i>	<i>GMAPS 01</i>	1°13·68'N 103°38·29'E	
			(Maritime and Port Authority of Singapore)	<b>NM 95/2019</b>
<b>Move</b>	 <i>Fl. R. 2s</i>	<i>Temasek</i>	from: 1°13·78'N 103°39·50'E to: 1°13·80'N 103°39·62'E	
			(Maritime and Port Authority of Singapore)	<b>NM 96/2019</b>
<b>Delete</b>	limit of working area, pecked line, joining:	(a)	1°13·49'N 103°37·98'E 1°13·68'N 103°38·14'E 1°13·68'N 103°38·29'E	
		(b)	1°13·49'N 103°38·38'E	
<b>Insert</b>	limit of working area, pecked line, joining:	(a)	above	
		(b)	above	
<hr/>				
<b>502</b>	7 Ed 1/9/15	Last NM 44/2019	(Maritime and Port Authority of Singapore)	<b>NM 94/2019</b>
<b>Insert</b>	 <i>Oc(2) Y. 6s</i>	<i>NEA-WRM-CNB</i>	1°19·85'N 104°02·54'E	
	 <i>Oc(2) Y. 6s</i>	<i>NEA-WRM-EC</i>	1°18·50'N 103°58·45'E	

## II

## TEMPORARY AND PRELIMINARY NOTICES

**\*(NM 97T/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)

Working Area A	Latitude (N)	Longitude (E)
Point 1	1° 15·706'	103° 38·709'
Point 2	1° 15·706'	103° 38·764'
Point 3	1° 15·109'	103° 39·004'
Point 4	1° 15·140'	103° 39·079'
Point 5	1° 14·613'	103° 39·292'
Point 11	1° 14·548'	103° 39·133'
Point 12	1° 15·440'	103° 39·709'

Working Area B	Latitude (N)	Longitude (E)
Point 5	1° 14·613'	103° 39·292'
Point 6	1° 13·803'	103° 39·619'
Point 10	1° 13·760'	103° 39·502'
Point 11	1° 14·548'	103° 39·133'

Working Area C	Latitude (N)	Longitude (E)
Point 6	1° 13·803'	103° 39·619'
Point 7	1° 13·164'	103° 39·876'
Point 8	1° 13·030'	103° 39·515'
Point 9	1° 13·119'	103° 39·481'
Point 10	1° 13·760'	103° 39·502'

**II**

**TEMPORARY AND PRELIMINARY NOTICES**

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 78T/2019 is cancelled.

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Source: Maritime and Port Authority of Singapore



### III NAVIGATIONAL INFORMATION

#### \*(NM 98/2019) 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>

<b>PMN No.</b>	<b>Subject</b>
69/2019	Reclamation work off Changi East
71/2019	Works at Tuas Terminal Phase 1
72/2019	Mooring and unmooring of vessels at Banyan Basin, Jurong Island
76/2019	Soil investigation works off Keppel Bay

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\*Source: Maritime and Port Authority of Singapore

### III AMENDMENTS TO PUBLICATIONS

\*(NM 99/2019) UPDATING OF PUBLICATION “SINGAPORE PORT INFORMATION 2018/2019”

#### CHARACTERISTICS OF AIDS TO NAVIGATION

##### TUAS VIEW EXTENSION

1. Page 132

**Delete** the following:

Name of Beacon/ Buoy	Position Lat. N Long. E Deg Min	Structure, Colour & Shape	Light Characteristic	Owner
GMAPS 01 buoy	01°13.675' 103°38.290'	Yellow pillar	Fl.Y.4s	GMAPS

2. Page 132

**Amend** the following:

Name of Beacon/ Buoy	Position Lat. N Long. E Deg Min	Structure, Colour & Shape	Light Characteristic	Owner
F2-DDJV-3 buoy	01°15.438' 103°38.867'	Red pillar with can topmark	Fl.R.4s	DIAP-DAELIM Joint Venture
F2-DDJV-3A buoy	01°15.142' 103°39.076'	Red pillar with can topmark	Fl(2)R.5s	DIAP-DAELIM Joint Venture
F2-DDJV-4 buoy	01°14.614' 103°39.289'	Red pillar with can topmark	Fl(3)R.15s	DIAP-DAELIM Joint Venture

##### TUAS VIEW EXTENSION (Cont/)

3. Page 133

**Delete** the following:

Name of Beacon/ Buoy	Position Lat. N Long. E Deg Min	Structure, Colour & Shape	Light Characteristic	Owner
PKHDB-17 Buoy	01°13.371' 103°36.289'	Green conical	Fl.G.2s	Penta



### III AMENDMENTS TO PUBLICATIONS

#### CHARACTERISTICS OF AIDS TO NAVIGATION

##### TEMASEK FAIRWAY

4. Page 134

**Amend** the following:

Name of Beacon/ Buoy	Position Lat. N Long. E Deg Min	Structure, Colour & Shape	Light Characteristic	Owner
Jurong Satu Buoy	01°14.308' 103°39.936'	Green conical	Fl.G.2s	MPA
Jurong Empat Buoy	01°15.955' 103°39.220'	Double black cones topmark point to point on yellow black yellow pillar	Q(9)W.15s	M/S Diap - Shap JV
Temasek Buoy	01°13.804' 103°39.622'	Red can	Fl.R.2s	MPA

##### EASTERN APPROACHES TO SINGAPORE (Cont/)

5. Page 147

**Insert** the following:

Name of Beacon/ Buoy	Position Lat. N Long. E Deg Min	Structure, Colour & Shape	Light Characteristic	Owner
NEA-WRM-EC Buoy	01°18.499' 103°58.454'	Yellow pillar with 'X' topmark	Oc(2)Y.6s	NEA
NEA-WRM-MP Buoy	01°17.672' 103°55.227'	Yellow pillar with 'X' topmark	Oc(2)Y.6s	NEA

##### CHANGI EAST

6. Page 152

**Insert** the following:

Name of Beacon/ Buoy	Position Lat. N Long. E Deg Min	Structure, Colour & Shape	Light Characteristic	Owner
NEA-WRM-CNB Buoy	01°19.853' 104°02.544'	Yellow pillar with 'X' topmark	Oc(2)Y.6s	NEA

### III AMENDMENTS TO PUBLICATIONS

#### CHARACTERISTICS OF AIDS TO NAVIGATION

##### PULAU TEKONG (Cont/)

7. Page 154

**Delete** the following:

<b>Name of Beacon/ Buoy</b>	<b>Position Lat. N Long. E Deg Min</b>	<b>Structure, Colour &amp; Shape</b>	<b>Light Characteristic</b>	<b>Owner</b>
TK-MB-3 Mooring Buoy	01°22·008' 104°02.667'	Yellow drum	Fl.Y.4s (sync)	Santarli

8. Page 155

**Delete** the following:

<b>Name of Beacon/ Buoy</b>	<b>Position Lat. N Long. E Deg Min</b>	<b>Structure, Colour &amp; Shape</b>	<b>Light Characteristic</b>	<b>Owner</b>
TK-MB-4 Mooring Buoy	01°22·133' 104°02.521'	Yellow drum	Fl.Y.4s (sync)	Santarli

## 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-PEGBB 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 & 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 01°17.91'N, 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 POSITION LAT 01°03.60'N LONG 103°38.85'E IS REPORTED NOT WORKING. ALL VESSELS ARE ADVISED TO NAVIGATE WITH EXTRA CAUTION.

## TT552

A TEMPORARY EXCLUSION ZONE HAS BEEN ESTABLISHED FOR WRECK REMOVAL OPERATIONS ON THE SUNKEN VESSEL THORCO CLOUD IN THE EASTBOUND LANE OF THE SINGAPORE STRAIT. OPERATION AREA IS ABOUT 1.7NM NE OF BATU BERHANTI BEACON AND INVOLVED WRECK REMOVAL VESSEL HONG BANG 6 (3FFP8).

THE 24 HOURS OPERATIONS ARE SCHEDULED FROM 18 JUN TO 31 AUG 2019. THE 400MWIDE WORKING AREA WILL BE MARKED BY THE FOLLOWING BUOYS (WGS84):

LAT (N)	LONG (E)	CARDINAL MARK	LIGHT (WHITE), RANGE (NM)
01 12.258	103 53.919	TC1 WEST	Q(9)10S, 6 NM
01 12.488	103 54.100	TC2 NORTH	Q, 6 NM
01 13.051	103 55.042	TC3 NORTH	Q, 6 NM
01 12.270	103 54.156	TC4 SOUTH	Q(6)+LFL10S, 6 NM
01 12.801	103 55.040	TC5 SOUTH	Q(6)+LFL10S, 6 NM

CHARTS AFFECTED: SP1/GSP1, 202, 502, BA4037 AND BA4041. MARINERS ARE ADVISED TO NAVIGATE WITH CAUTION AND KEEP CLEAR OF WORKING AREA.

## IV

## REPRINT OF MARITIME SAFETY INFORMATION

TT557 (AMENDED 28 AUGUST 2019)

SURVEY BOAT SSE MAZU IS CONDUCTING HYDROGRAPHIC SURVEY IN THE SINGAPORE STRAITS IN THE EAST BOUND LANE BOUNDED BY THE FOLLOWING COORDINATES FROM 27 AUGUST TO 29 AUGUST 2019, DAYLIGHT HOURS ONLY.

A	01°08'25.132"N 103°45'22.408"E
B	01°10'05.340"N 103°47'56.770"E
C	01°09'01.287"N 103°47'56.380"E
D	01°07'49.553"N 103°46'10.201"E
E	01°06'47.382"N 103°45'13.698"E

TWO AREAS BOUNDED BY THE FOLLOWING COORDINATES ON 29 AUGUST 2019, DAYLIGHT HOURS ONLY.

A	01°10'05.340"N 103°47'56.770"E
B	01°10'40.625"N 103°49'13.714"E
C	01°10'05.340"N 103°49'28.762"E

AND

A	01°11'35.790"N 103°51'17.594"E
B	01°12'08.695"N 103°52'14.694"E
C	01°12'08.695"N 103°52'17.598"E
D	01°11'59.180"N 103°52'20.690"E
E	01°11'15.750"N 103°52'20.690"E
F	01°10'54.174"N 103°51'34.046"E

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

TT574

BANYAN BEACON AT LAT 01°13.346'N LONG 103°41.585'E IS UNLIT AND DAMAGED AND ISO DANGER BUOY HAVE BEEN INSTALLED AT LAT 01°13.319'N LONG 103°41.561'E MARINERS ARE ADVISED TO NAVIGATE WITH CAUTION.

TT577(AMENDED 29 AUG 19)

SULTAN SHOAL LIGHTHOUSE RACON IS TEMPORARILY REMOVED FOR MAINTENANCE. MARINERS ARE ADVISED TO 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.

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 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.

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ISSUED BY SINGAPORE PORT OPERATIONS CONTROL CENTRE (as at 30<sup>th</sup> August 2019)

**V**  
**EXTRACT OF ADMIRALTY NOTICES TO MARINERS**  
**FOR DUAL-BADGED CHARTS**

**These notices can also be accessed directly from UKHO Website:**

**NIL**

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Update to Admiralty Notices to Mariners No. 34 of 2019 dated 22<sup>nd</sup> August 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](mailto: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 : .....

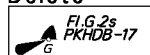
Name and Signature : .....

Ship's/Company's Stamp : .....

103°35'E

1°15'N

Delete



CORRECTION NO.	SNM EDN NO.	LAST CORR N NO.	CHART NO.	Location on Chart		
91	9/2019	83/2019	GSP1/SP1			
				X		

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



103°40'E

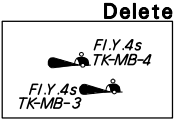
1°15'N

Delete



CORRECTION NO.	SNM EDN NO.	LAST CORR N NO.	CHART NO.	Location on Chart		
92	9/2019	91/2019	GSP1/SP1	X		

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

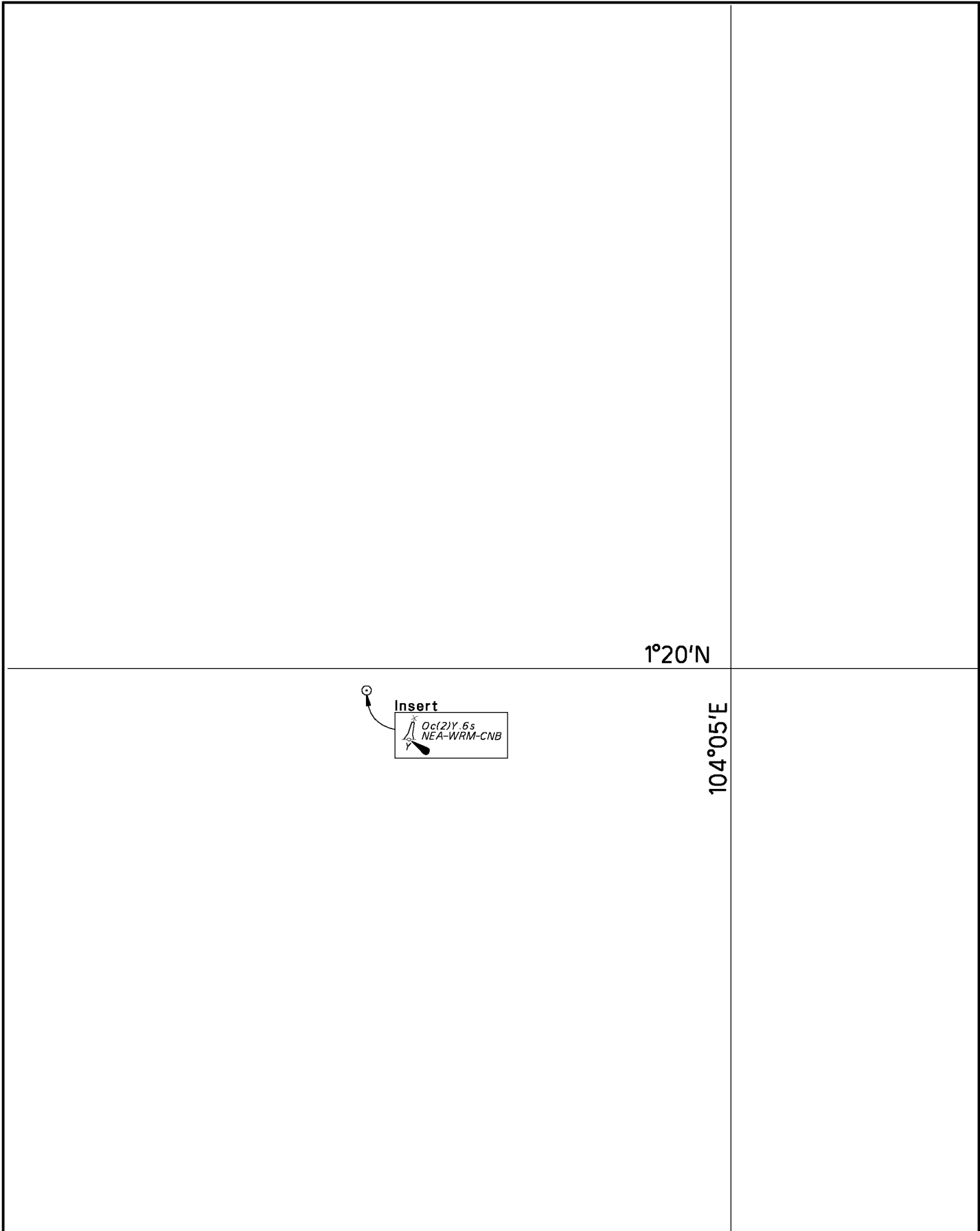


1°20'N

104°05'E

CORRECTION NO.	SNM EDN NO.	LAST CORR N NO.	CHART NO.	Location on Chart		
						X
93	9/2019	92/2019	GSP1/SP1			

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		
94 (Sheet 1)	9/2019	93/2019	GSP1/SP1			X

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

104°E

1°20'N

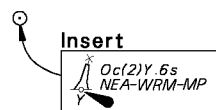


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94 (Sheet 2)	9/2019	93/2019	GSP1/SP1			X

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

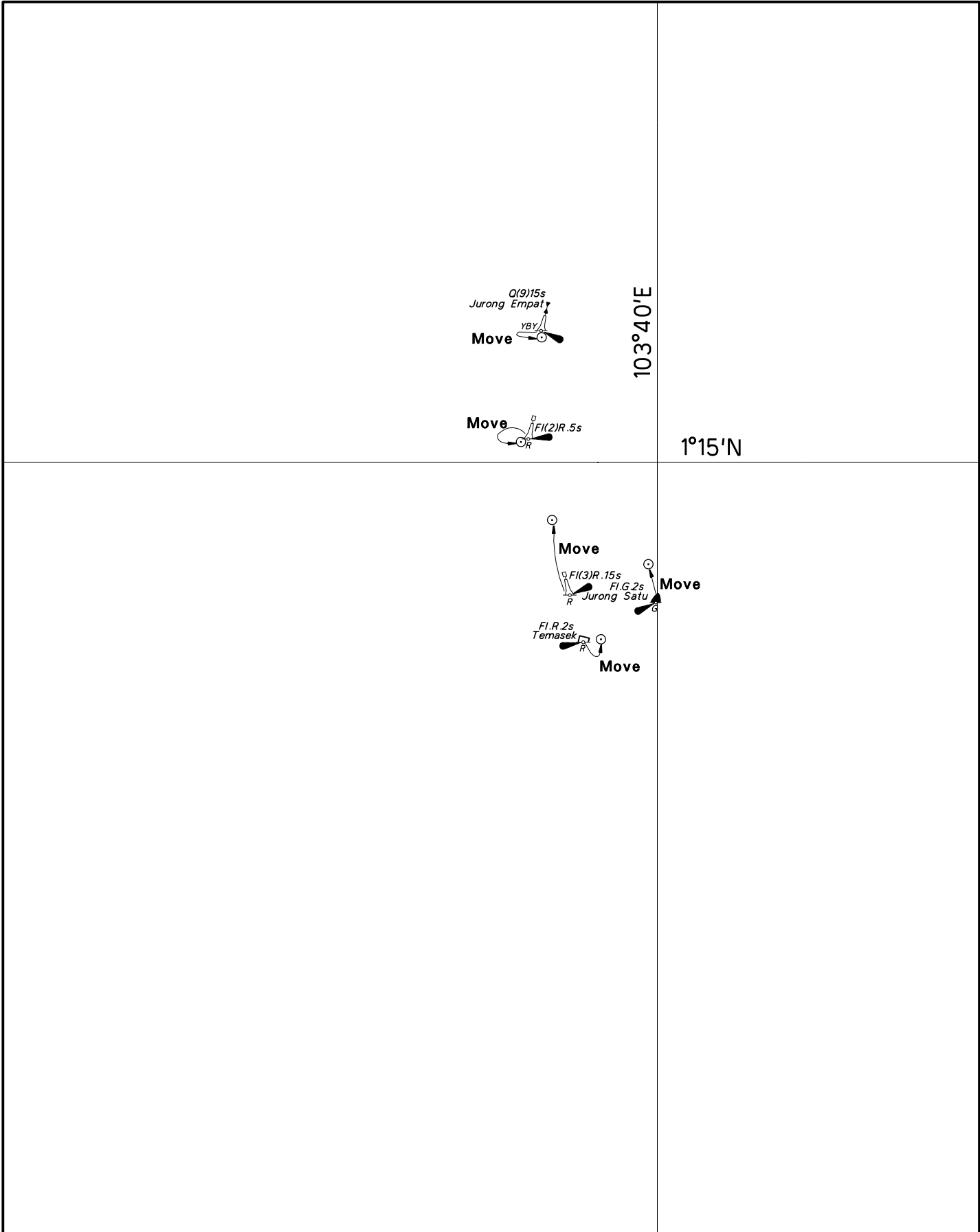
103°55'E

1°20'N



CORRECTION NO.	SNM EDN NO.	LAST CORR N NO.	CHART NO.	Location on Chart		
94 (Sheet 3)	9/2019	93/2019	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		
95	9/2019	94/2019	GSP1/SP1	X		

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

103°40'E

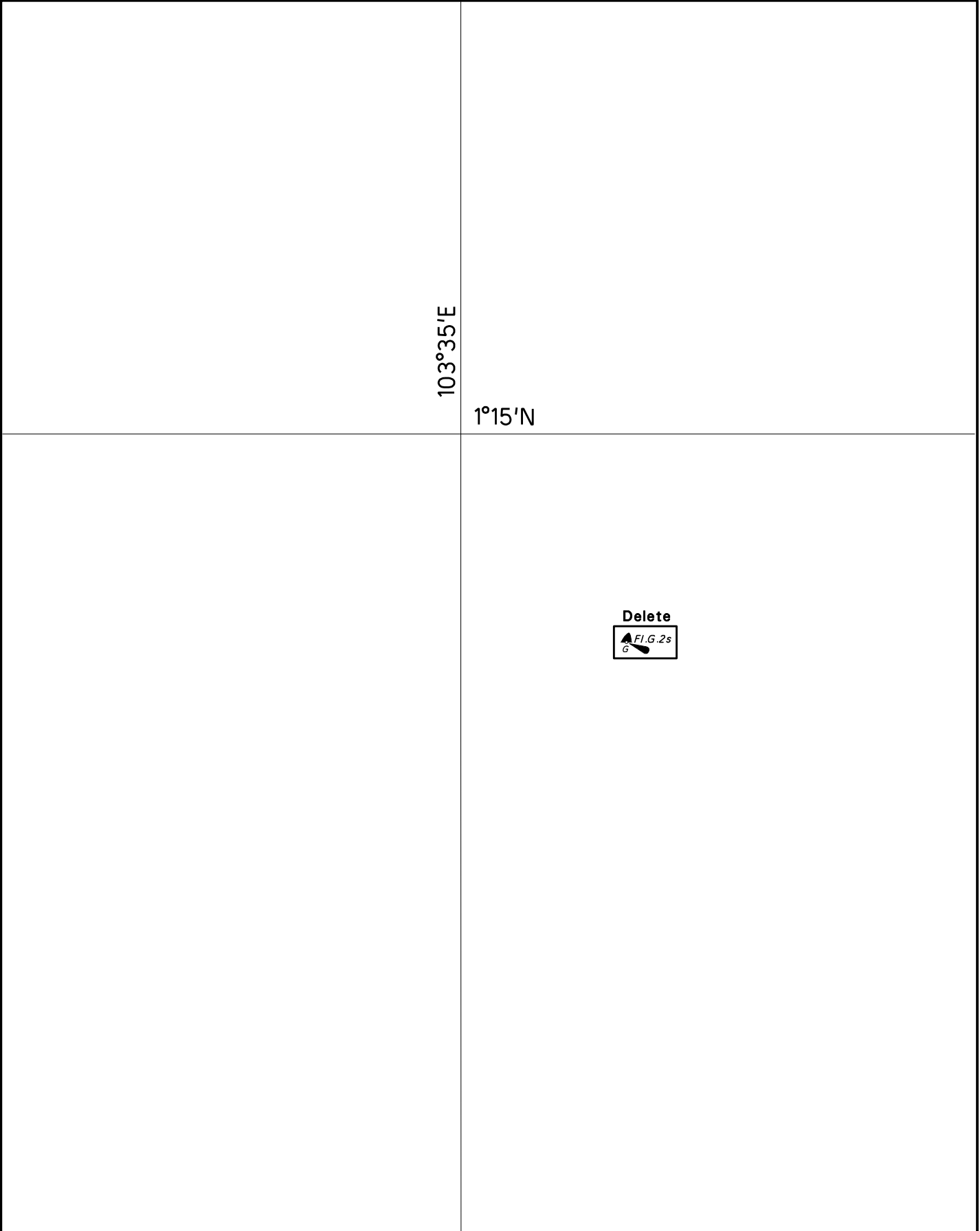
1°15'N



Insert

CORRECTION NO.	SNM EDN NO.	LAST CORR N NO.	CHART NO.	Location on Chart		
96	9/2019	95/2019	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		
91	9/2019	85/2019	500			X

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



103°35'E


1°15'N

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


CORRECTION NO.	SNM EDN NO.	LAST CORRNO NO.	CHART NO.	Location on Chart		
92	9/2019	91/2019	500			X

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

<div>103°35'E</div>		<div>1°15'N</div>		
		<div><div>Fl.R.2s Ternasek</div><div></div><div>Move</div></div>		
CORRECTION NO.	SNM EDN NO.	LAST CORRNO NO.	CHART NO.	Location on Chart
95	9/2019	92/2019	500	<div>X</div>

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

<div>103°35'E</div>		<div>1°15'N</div>		
		<div></div>		
CORRECTION NO.	SNM EDN NO.	LAST CORR N NO.	CHART NO.	Location on Chart
96	9/2019	95/2019	500	<div>X</div>

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

		103°35'E		1°15'N						
				<div>Delete</div> <div>FIG 2s</div>						
CORRECTION NO.		SNM EDN NO.		LAST CORR N NO.		CHART NO.		Location on Chart		
91		9/2019		83/2019		501		X		

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

103°40'E

1°15'N

Delete



CORRECTION NO.	SNM EDN NO.	LAST CORR N NO.	CHART NO.	Location on Chart		
					X	
92	9/2019	91/2019	501			

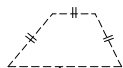
Caution: some computer printers might distort the tracings.  
Users are advised to check and, if necessary, adjust settings on the printer

				103°40'E		
				1°15'N		
<div><div>FLR 2s Temasek</div><div><div></div><div>Move</div></div></div>						
CORRECTION NO.	SNM EDN NO.	LAST CORR N NO.	CHART NO.	Location on Chart		
95	9/2019	92/2019	501		X	

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

103°40'E

1°15'N



Insert

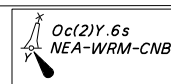
CORRECTION NO.	SNM EDN NO.	LAST CORR N NO.	CHART NO.	Location on Chart		
					X	
96	9/2019	95/2019	501			

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

104°00'E

1°20'N

Insert



CORRECTION NO.	SNM EDN NO.	LAST CORR N NO.	CHART NO.	Location on Chart		
94 (Sheet 1)	9/2019	44/2019	502		X	

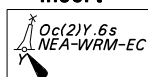
Caution: some computer printers might distort the tracings.  
Users are advised to check and, if necessary, adjust settings on the printer



104°00'E

1°20'N

Insert



CORRECTION NO.	SNM EDN NO.	LAST CORR N NO.	CHART NO.	Location on Chart		
94 (Sheet 2)	9/2019	44/2019	502	X		

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