



SINGAPOREAN NOTICES TO MARINERS

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The monthly Notices to Mariners contain corrective information affecting charts published by the Hydrographic Department, Maritime and Port Authority of Singapore. The information contained in these Notices should be updated on the charts affected. Notices under Section II apply only to the particular Singaporean Chart(s) indicated.

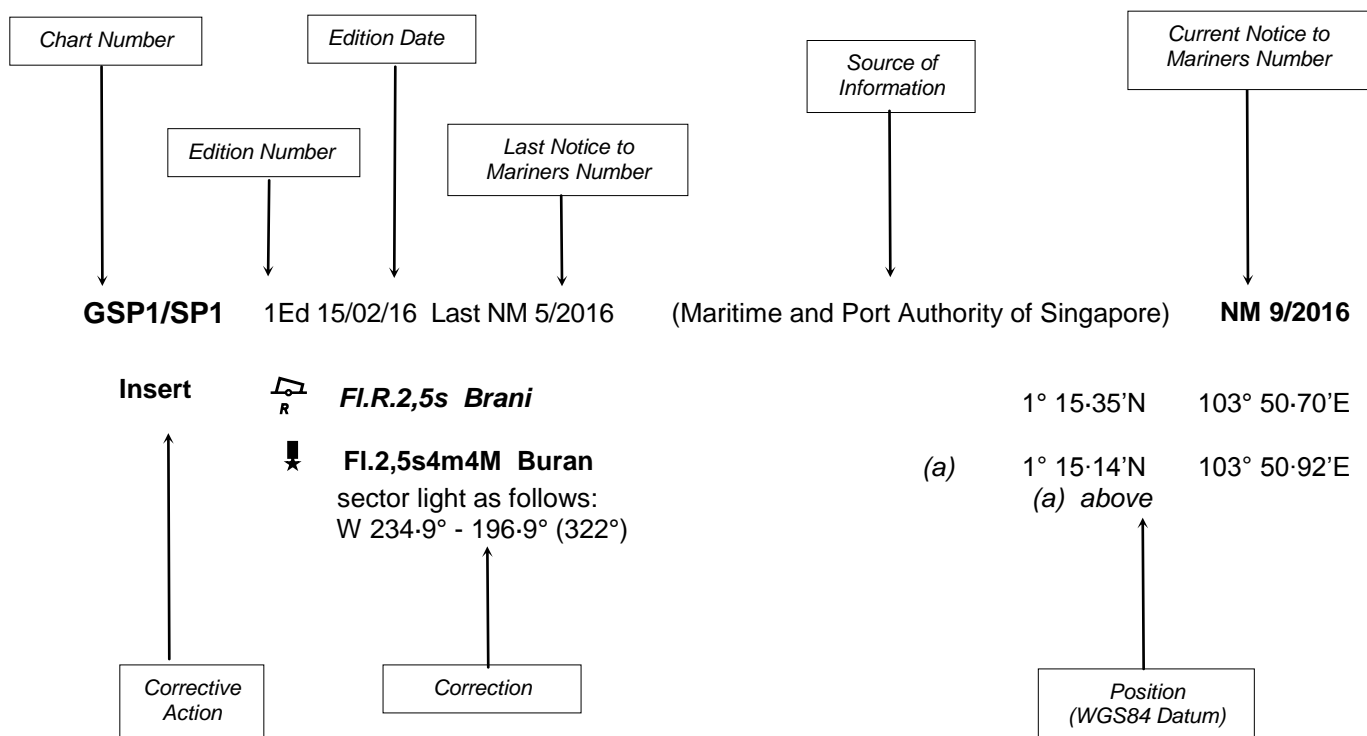
Mariners are requested to notify the Chief Hydrographer, Maritime and Port Authority of Singapore, immediately on the discovery of new dangers or suspected dangers to navigation and of changes or defects in aids to navigation. See Hydrographic Note on back page.

The monthly Singaporean Notices to Mariners can be accessed directly from the MPA website:
<http://www.mpa.gov.sg/web/portal/home/port-of-singapore/circulars-and-notices/singapore-notices-to-mariners-ntm>

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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 3T/2016**).
P indicates a Preliminary Notice (eg. **NM 4P/2016**).
- 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
INDEX OF CHARTS AND PUBLICATIONS

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Index of Dual-Badged Charts	-	5 to 7
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*Source: Maritime and Port Authority of Singapore

I
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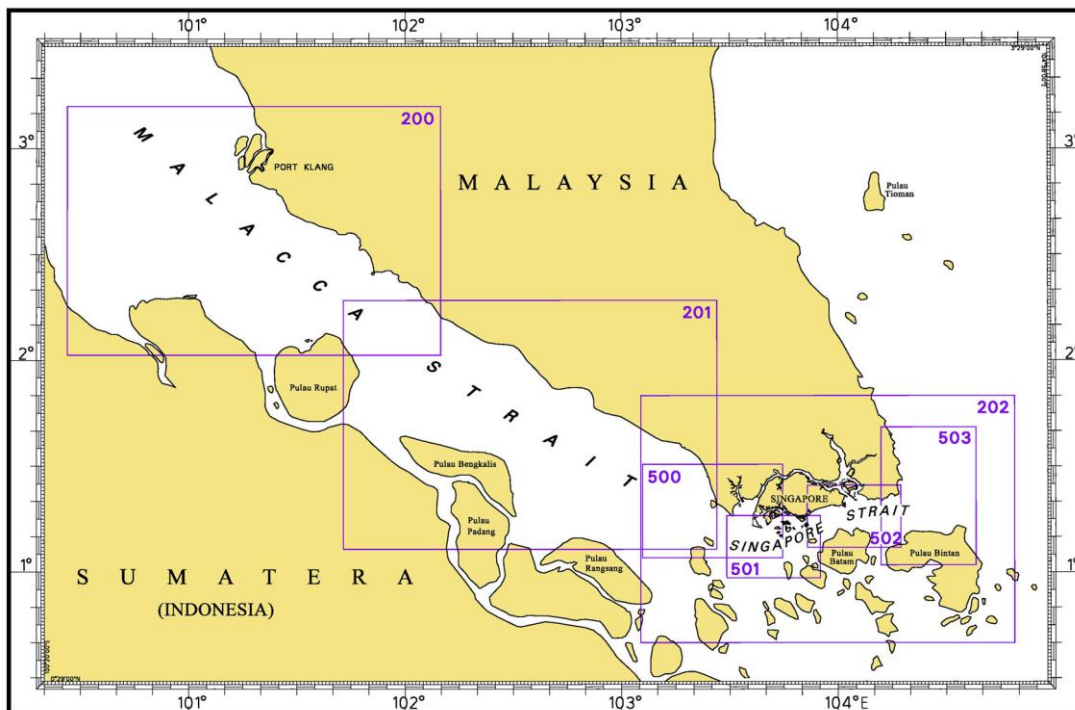
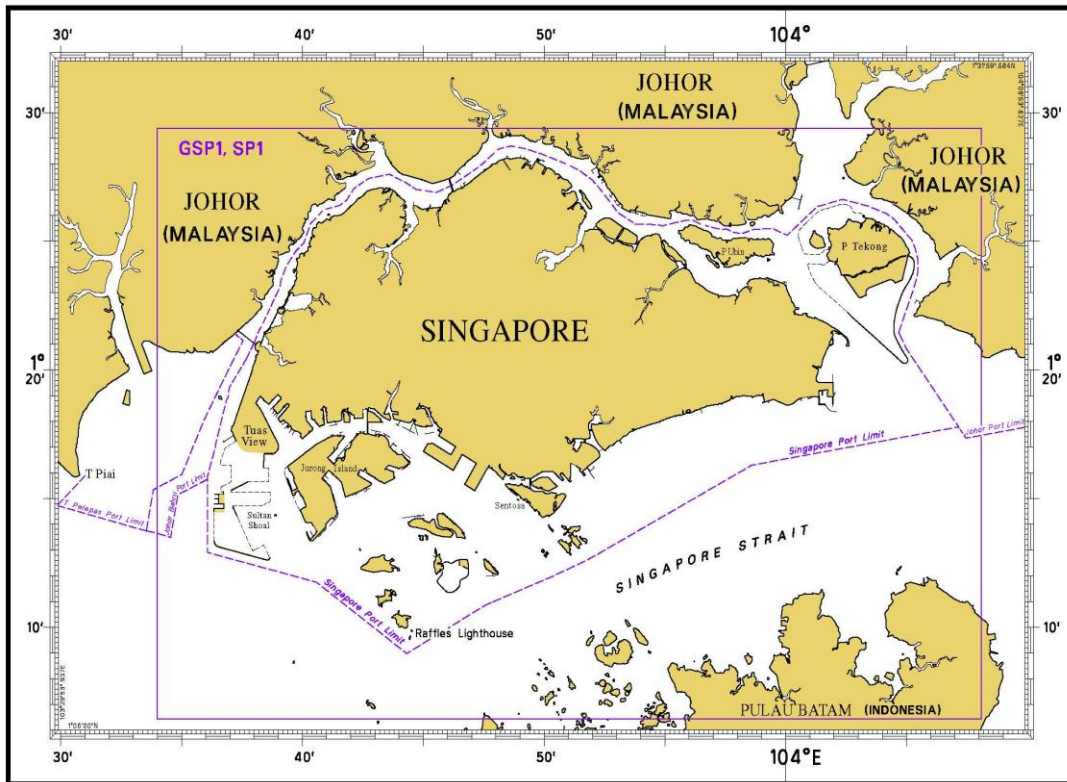
INDEX OF NOTICES

NOTICE NO.	DESCRIPTION	PAGE NO.
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* Source: Maritime and Port Authority of Singapore

I INDEX OF CHARTS AND PUBLICATIONS

INDEX OF SINGAPOREAN CHARTS



Notes:

Updated Singaporean Charts are available through our Print-On-Demand (POD) Chart Service. For more information, refer to Section III – Navigational Information. These charts can be purchased from our Chart Distributors.

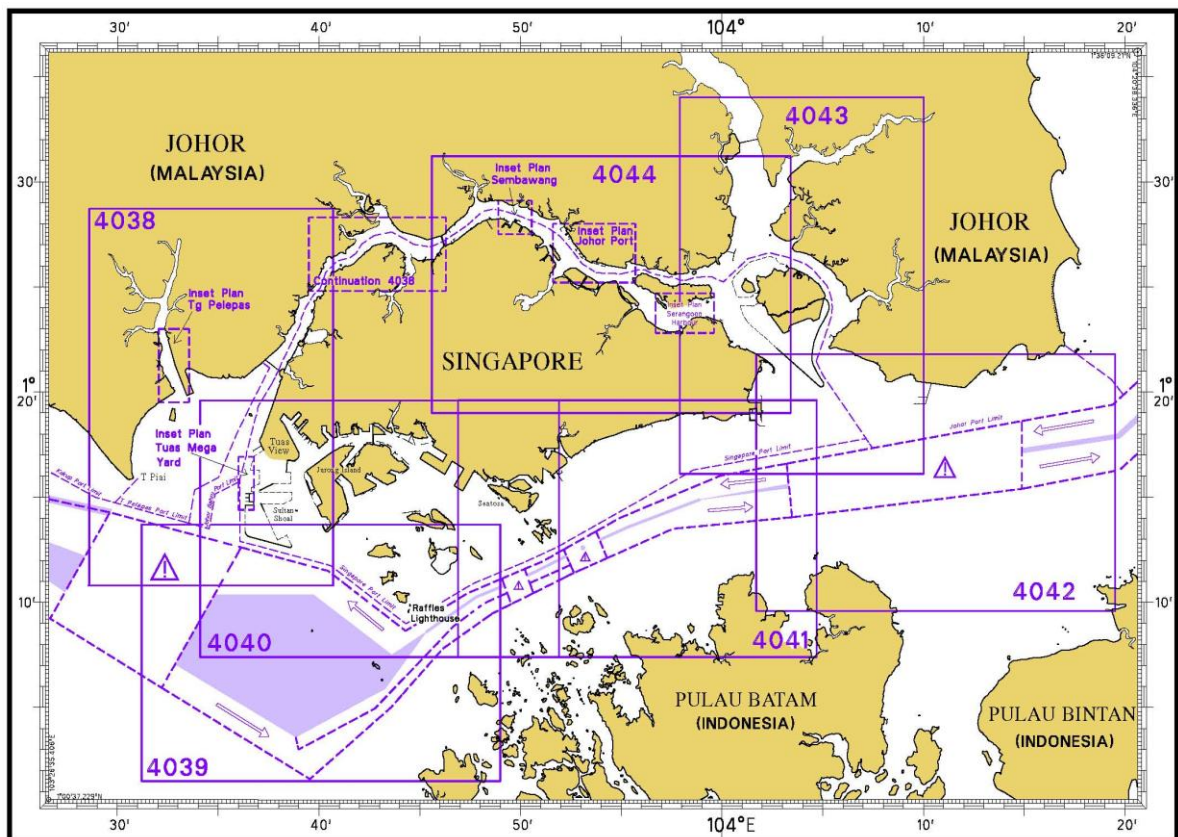
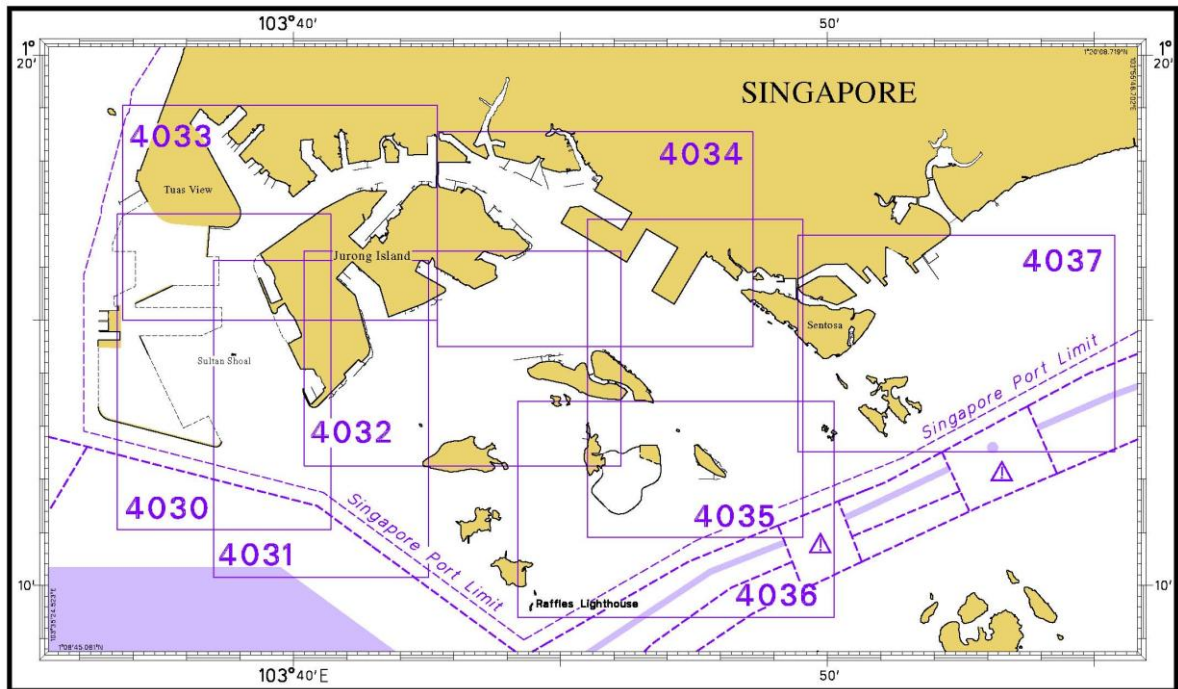
I
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SINGAPOREAN CHARTS

Chart No.	Chart Title	Scale 1:	Date Published of Latest Edition
GSP1	Anchorage and Aids to Navigation (with Area Reference)	65 000	15/02/2016
SP1	Anchorage and Aids to Navigation	65 000	15/02/2016
200	Malacca Strait - Port Klang to Tanjung Keling	200 000	01/09/2015
201	Malacca Strait - Tanjung Keling to Western Entrance of Singapore Strait	200 000	15/08/2014
202	Singapore Strait	200 000	15/09/2016
500	Malacca and Singapore Straits – Pulau Pisang to Raffles Lighthouse	75 000	26/09/2013
501	Singapore Strait – Western Part	50 000	01/09/2015
502	Singapore Strait - Eastern Part	50 000	01/09/2015
503	South China Sea - Eastern Approaches and Entrance to Singapore Strait	75 000	15/08/2014
-	Charts for Small Craft – Singapore Port Waters and Approaches	10 000 to 200 000	January 2016
1	Symbols Abbreviations Terms and S-57 Objects used on Singapore Nautical and Electronic Navigational Charts. Available at MPA website: http://www.mpa.gov.sg/web/portal/home/publications/charts-symbols-and-abbreviations	-	28/07/2011

I INDEX OF CHARTS AND PUBLICATIONS

DUAL-BADGED CHARTS



I
INDEX OF CHARTS AND PUBLICATIONS

Chart No.	Chart Title	Scale 1:	Date Published of Latest Edition
4030	Port of Singapore West Jurong Anchorages and Temasek Fairway	10 000	17/03/2016
4031	Port of Singapore Western Approaches to Jurong Island	10 000	17/03/2016
4032	Port of Singapore Sinki Fairway	10 000	04/08/2016
4033	Port of Singapore Tuas Bay, West Jurong Channel and Pesek Basin	10 000	17/03/2016
4034	Port of Singapore East Jurong Channel, Pasir Panjang Terminal and West Keppel Fairway	10 000	04/08/2016
4035	Port of Singapore Western Anchorages, Jong Fairway and Cruise Bay	10 000	28/05/2015
4036	Port of Singapore Raffles Lighthouse to The Sisters	10 000	28/05/2015
4037	Port of Singapore Keppel Harbour, Tanjong Pagar Terminal and Approaches	10 000	28/05/2015
4038	Malaysia and Singapore Johor Strait – Western Part	30 000	25/02/2016
4039	Indonesia, Singapore and Malaysia Western Approaches to Main Strait	30 000	24/04/2014
4040	Singapore, Indonesia and Malaysia Tuas View to Pulau Sakijang Bendera (S. John's Island)	30 000	27/08/2015
4041	Singapore and Indonesia Pulau Sebarok to Changi	30 000	27/08/2015

I
INDEX OF CHARTS AND PUBLICATIONS

DUAL- BADGED CHARTS

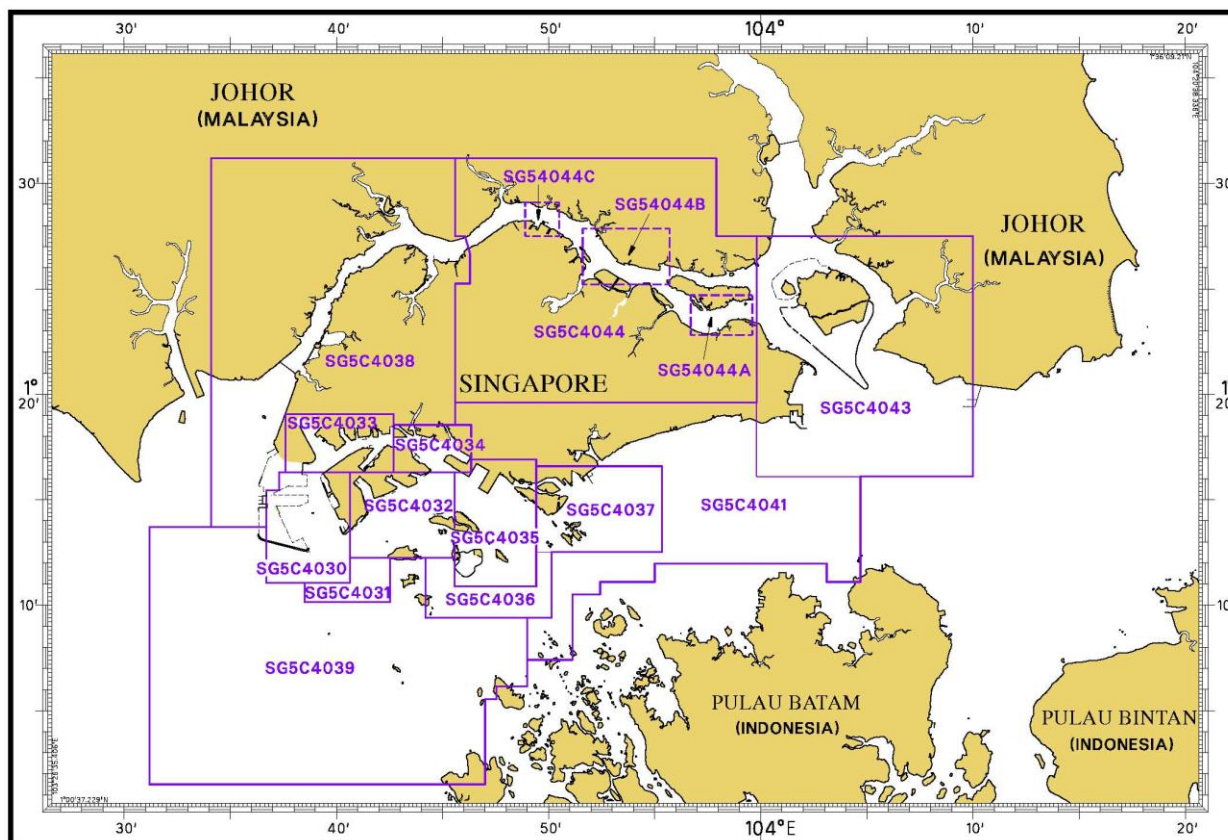
Chart No.	Chart Title	Scale 1:	Date Published of Latest Edition
4042	Indonesia, Malaysia and Singapore Changi to Pulau Mungging and Tanjung Buntan to Tanjung Tondang	30 000	24/04/2014
4043	Malaysia and Singapore Kuala Johor and Sungai Johor	30 000	16/06/2016
4044	Singapore and Malaysia Johor Strait - Eastern Part	30 000	16/06/2016

SINGAPOREAN PUBLICATIONS

Item	Title	Date Published of Latest Edition
1	Singapore Tide Tables Year 2016	09/09/2015
2	Singapore Tide Tables Year 2017	09/09/2016
3	Singapore Port Information 2016/2017	04/01/2016

I INDEX OF CHARTS AND PUBLICATIONS

INDEX OF SINGAPORE ELECTRONIC NAVIGATIONAL CHART (ENC)



SINGAPORE ELECTRONIC NAVIGATIONAL CHART (ENC)

ENC Name	ENC Coverage	ENC Edition
SG5C4030	West Jurong Anchorages and Temasek Fairway	9 th Edition (17/03/2016)
SG5C4031	Western Approaches to Jurong Island	8 th Edition (17/03/2016)
SG5C4032	Sinki Fairway	11 th Edition (4/08/2016)
SG5C4033	Tuas Bay, West Jurong Channel and Pesek Basin	9 th Edition (17/03/2016)
SG5C4034	East Jurong Channel, Pasir Panjang Terminal and West Keppel Fairway	14 th Edition (4/08/2016)
SG5C4035	Western Anchorages, Jong Fairway and Cruise Bay	18 th Edition (4/08/2016)
SG5C4036	Raffles Lighthouse to The Sisters	9 th Edition (28/05/2015)
SG5C4037	Keppel Harbour, Tanjong Pagar Terminal and Approaches	9 th Edition (28/05/2015)
SG5C4038	Johor Strait – Western Part	9 th Edition (25/02/2016)
SG5C4039	Western Approaches to Main Strait	8 th Edition (27/08/2015)
SG5C4041	Pulau Sebarok to Changi	9 th Edition (27/08/2015)
SG5C4043	Kuala Johor	12 th Edition (16/06/2016)
SG5C4044	Johor Strait – Eastern Part	12 th Edition (16/06/2016)
SG54044A	Serangoon Harbour	3 rd Edition (16/06/2016)
SG54044B	Pelabuhan Johor (Johor Port)	3 rd Edition (16/06/2016)
SG54044C	Sembawang	3 rd Edition (16/06/2016)

The latest edition of the Singapore ENC covering Singapore Waters and their approaches can be found in our monthly Singaporean Notices to Mariners at MPA website: <http://www.mpa.gov.sg/web/portal/home/port-of-singapore/port-operations/charts-tidal-information-aids-to-navigation-hydrography/nautical-charts/singapore-electronic-navigational-chart-enc>

II NEW PUBLICATIONS

NEW EDITION SINGAPOREAN CHART PUBLISHED ON 15th SEPTEMBER 2016

Chart Number	:	202
Title	:	Singapore Strait
Coverage	:	Lat 00° 40-00' N 01° 50-00' N Long 103° 05-34' E 104° 48-89' E
Scale	:	1 : 200 000
Date Published	:	15 th September 2016
Size of Chart	:	960.0 x 644.7 mm
Remarks	:	This new edition includes surveys, submarine cables, updated coastline at Tuas View Extension, Jurong Island, Pasir Panjang, Pulau Tekong and Changi Finger pier.

The existing chart of the same number published on 26th September 2013 has been superseded.

II NEW PUBLICATION

SINGAPORE TIDE TABLES YEAR 2017 PUBLISHED ON 9TH SEPTEMBER 2016

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

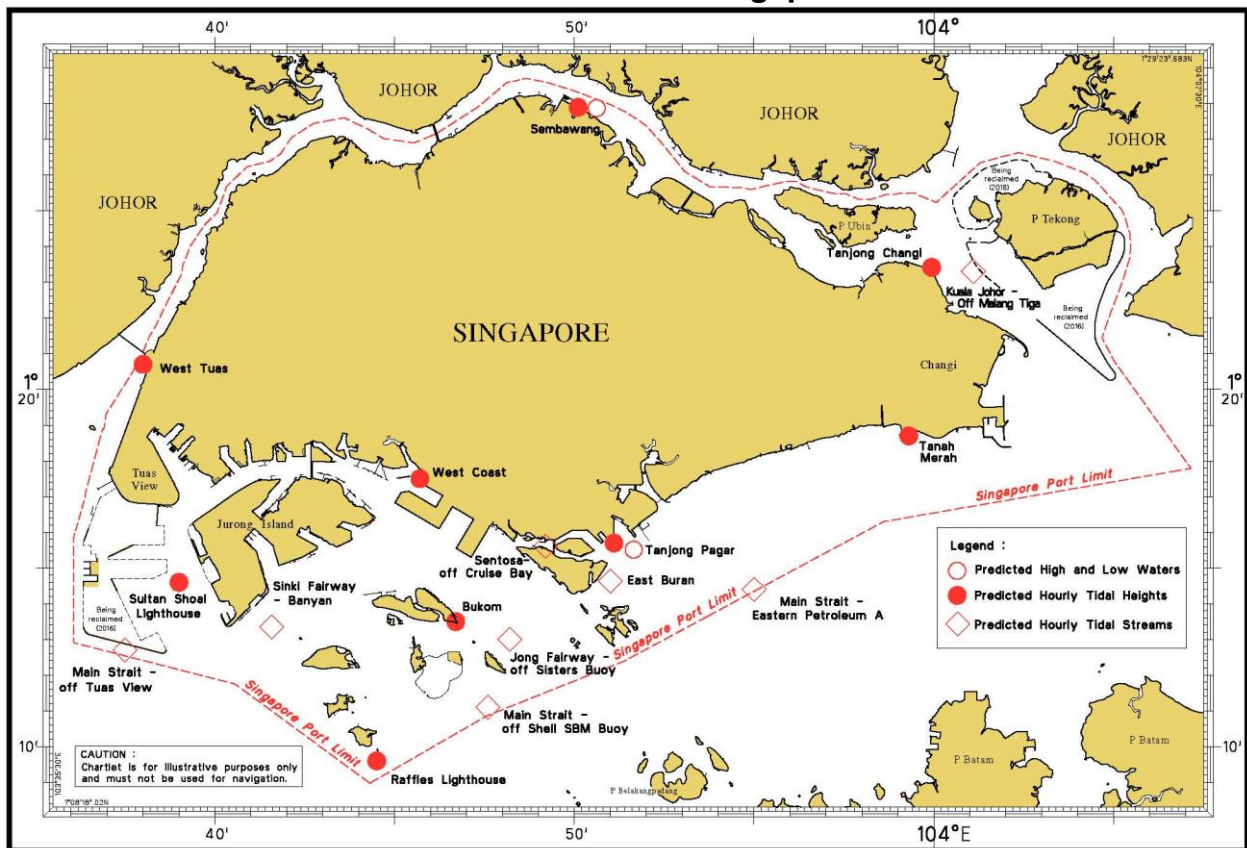
4. **Maximum and Slack Tidal Stream Predictions** at the following stations:
 - a) Malacca Strait – off Pulau Iyu Kecil Light
 - b) Singapore Strait – Selat Phillip
 - c) Singapore Strait – Karang Banteng (Buffalo Rock)
 - d) Singapore Strait – Horsburgh Lighthouse

5. **Malacca Strait – High and Low Water Predictions** at the following stations:
 - a) Kedah Pier, Pulau Pinang
 - b) Port Dickson
 - c) Kuala Batu Pahat

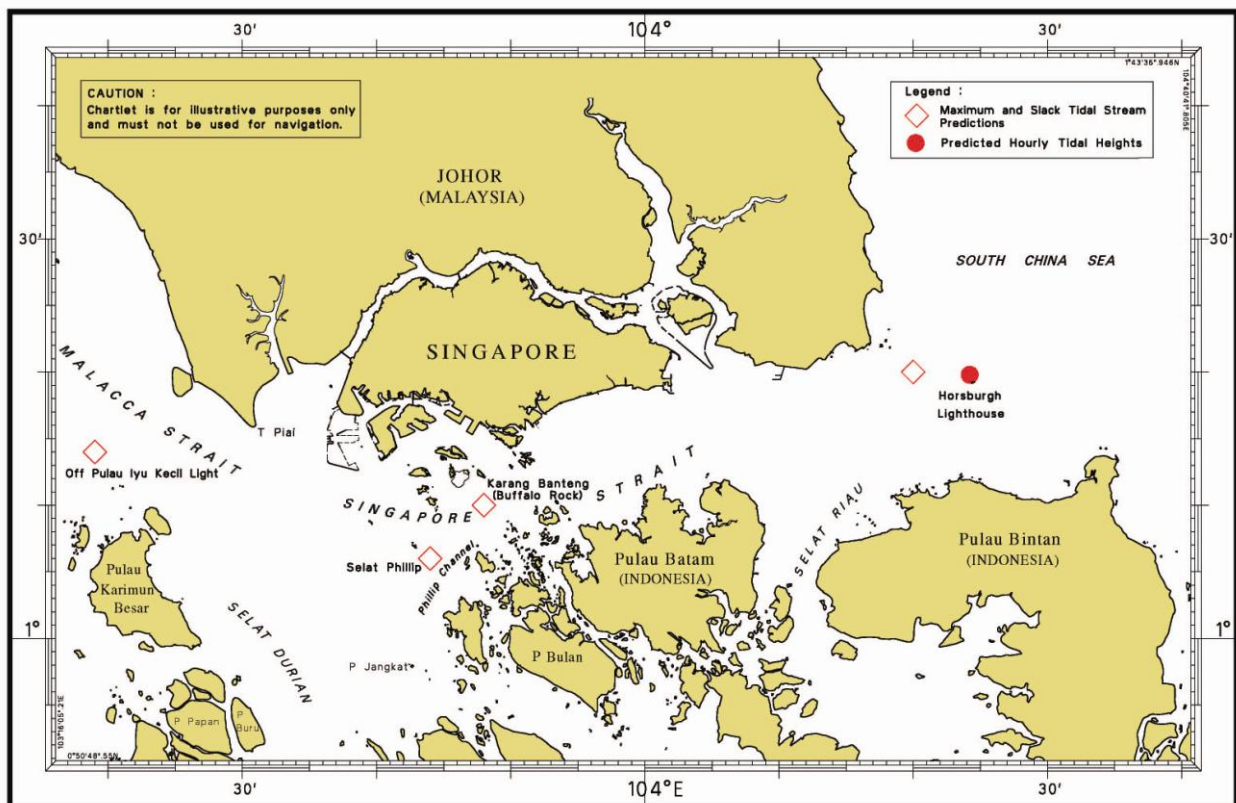
The locations of the above stations are shown in the chartlets below:

II
NEW PUBLICATION

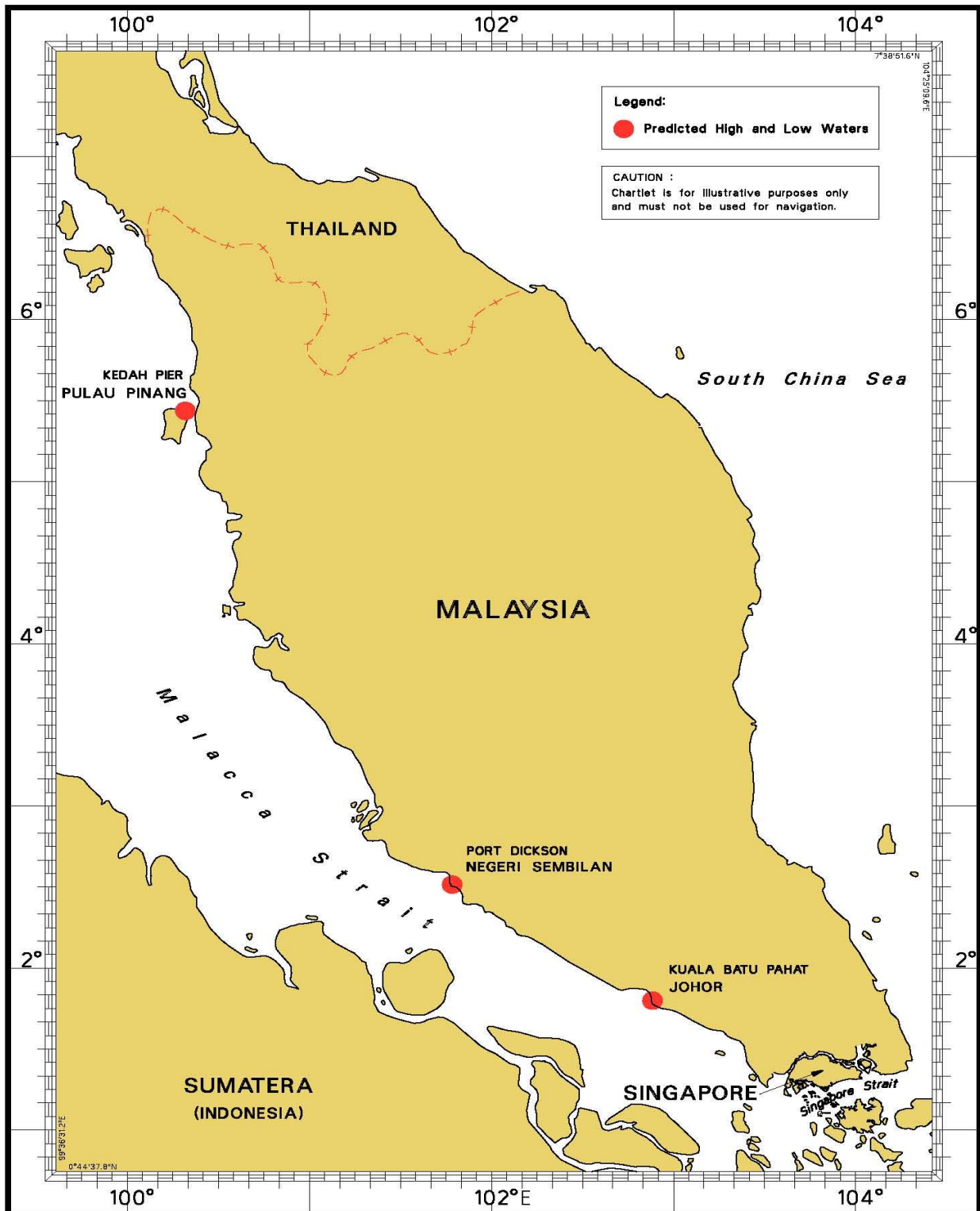
Tidal Prediction Stations within Singapore Port Waters



Tidal Prediction Stations in Straits of Malacca and Singapore



II
NEW PUBLICATION
Tidal Prediction Stations in Malacca Strait



This publication is available from the following Chart Distributors:

1. Chartco (Singapore) Pte Ltd
2. Cornes (Singapore) Pte Ltd
3. E.W. Limer Charts & Publications Pte Ltd
4. Global Navigation Solutions Pte Ltd
5. Motion Smith

(Please refer Page 21 for details)

II
NOTICES TO MARINERS AND CHART CORRECTIONS

NIL

III NAVIGATIONAL INFORMATION

***(NM 68/2016) 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-notice>

PMN No.	Subject
90/2016	Soil investigation works at Tuas View Extension
91/2016	Reduced visibility in the Singapore Strait and Port Waters
99/2016	Construction of temporary jetty and RoRo Ramp in Tuas View Basin and at Tuas Staging Ground

***(NM 69/2016) SINGAPOREAN PRINT-ON-DEMAND (POD) CHARTS**

Print-On-Demand (POD) Charts are the most up-to-date paper nautical charts printed for navigational use. These nautical charts are produced in accordance with the International Hydrographic Organisation (IHO) chart specifications. All Singaporean Charts are continually updated to the latest Notices to Mariners before they are printed and sold to users.

These POD Charts include GSP1, SP1, 200, 201, 202, 500, 501, 502 and 503.

BENEFITS TO OUR CUSTOMERS

Convenience

Customers need not make numerous hand corrections to the nautical charts before use. In addition the updated POD Charts are more accurate and reliable than offset printed charts with hand corrections.

Clarity

Clarity in the presentation of updated information as compared to non-POD printed charts, where in some cases there are several overlapping corrections over existing information.

Coverage

The POD Charts cover the Straits of Malacca and Singapore, from One Fathom Bank to Horsburgh Lighthouse.

*Source: Maritime and Port Authority of Singapore

III AMENDMENTS TO PUBLICATIONS

*(NM 70/2016) UPDATING OF PUBLICATION "SINGAPORE PORT INFORMATION 2016/2017"

WHARVES AND BERTHS

1. Page 163

7 JURONG ISLAND (SLNG TERMINAL) (1°14-0'N, 103°40-2'E)

Amend the following:

Berth	Length of Berth Box	Depth Alongside (Year Surveyed)	Controlling Depth in Approaches
OSLN 1	420m	17.8m (2016)	16.0m
OSLN 2	230m	13.0m(2016)	16.0m
OSLN 3	400m	13.5m(2016)	15.5m

2. Page 168

25 JURONG TERMINAL (JURONG PORT PTE LTD) (1°18-3'N, 103°43-1'E)

Amend the following:

Berth	Length of Berth Box	Max LOA	Depth Alongside (Year Surveyed)	Controlling Depth In Approaches
J2	212m	120m	6.4m (2000)	6.8m
J2A	150m	120m	6.3m (2013)	6.8m
J3	212m	120m	7.9m (2000)	7.3m

3. Page 183

48 MARINA SOUTH - (MARINA BAY CRUISE CENTRE) (1°15-9'N, 103°51-6'E)

Amend the following:

Berth	Length of Berth Box	Depth Alongside (Year Surveyed)
1	373m	11.4m (2016)
2	396m	11.5m(2016)

49 MARINA SOUTH WHARF (JURONG PORT PTE LTD) (1°16-2'N, 103°51-4'E)

Amend the following:

Berth	Length of Berth Box	Depth Alongside (Year Surveyed)
Wharf	100m	3.4m (2016)

52 SENOKO GASWORK STATION (CITY GAS PTE LTD) (1°28-3'N, 103°48-4'E)

Amend the following:

Berth	Length of Berth Box	Depth Alongside (Year Surveyed)	Controlling Depth in Approaches
Senoko Gaswork Jetty	128m	7.2m (2016)	6.3m

*Source: Maritime and Port Authority of Singapore

IV
REPRINT OF RADIO NAVIGATIONAL WARNINGS

The following Radio Navigational Warnings 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 INTERNATIONAL COLLISION REGULATIONS, 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.

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 MARITIME AND PORT AUTHORITY OF SINGAPORE'S PORT MARINE CIRCULAR, 02 OF 2011 DATED 30 MAY 2011.

SR123

SEA ROBBERIES ARE REPORTED IN THE SINGAPORE STRAIT, ALL VESSELS ARE REMINDED TO MAINTAIN A PROPER LOOK-OUT AND REPORT ANY SUSPICIOUS CRAFT TO VTIS SINGAPORE.

ISSUED BY SINGAPORE PORT OPERATIONS CONTROL CENTRE (as at 25th Sep 2016)

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>

4437 SINGAPORE - Jurong Island - Berth 18 - Legend.

Source: Maritime and Port Authority of Singapore

Chart 4034 [*previous update New Edition 04/08/2016*] WGS84 DATUM




Amend legend to, 16-2m(2015), centred on:

1° 17' .524N., 103° 43' .431E.

4523 SINGAPORE STRAIT – P.Takong Kecil S – Radar beacons. Light-beacons. Beacon

Source: Indonesian Notice 32/377/16 and Indonesian Lights List

Chart 4039 [*previous update 3314/16*] WGS84 DATUM

Insert	 Q(6)+LFl.15s8m9M Takong radar beacon, Racon(TK), at light-beacon	(a) 1° 05' .90N., 103° 43' .25E. (a) above
Delete	 (collapsed), close W of:	(a) above
	 Q(6)+LFl.15s8m9M Takong and associated radar beacon, Racon(K), close W of:	(a) above

4636 SINGAPORE – Temasek Fairway E, Stolhaven Terminal and Selat Pauh – Buoyage. Depth.

Source: Maritime and Port Authority of Singapore

Chart 4030 [*previous update New Edition 17/03/2016*] WGS84 DATUM

Insert	 Q(9)15s Jurong Empat	1° 15' .895N., 103° 39' .216E.
Delete	former  Q(9)15s Jurong Empat	1° 16' .127N., 103° 39' .216E.
	 Fl. Y.4s Stolt WJ-1	1° 16' .455N., 103° 39' .625E.
	 Fl. Y.4s Stolt WJ-2	1° 16' .511N., 103° 39' .585E.

Chart 4031 [*previous update 2406/16*] WGS84 DATUM

Insert	 Q(9)15s Jurong Empat	1° 15' .895N., 103° 39' .216E.
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Chart 4033 [*previous update 3935/16*] WGS84 DATUM

Insert	 Q(9)15s Jurong Empat	1° 15' .895N., 103° 39' .216E.
Delete	former  Q(9)15s Jurong Empat	1° 16' .127N., 103° 39' .216E.
	 Fl. Y.4s Stolt WJ-1	1° 16' .455N., 103° 39' .625E.
	 Fl. Y.4s Stolt WJ-2	1° 16' .511N., 103° 39' .585E.

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

4636 SINGAPORE – Temasek Fairway E, Stolhaven Terminal and Selat Pauh – Buoyage. Depth. (continued)

Chart 4038 [previous update 3935/16] WGS84 DATUM

Move		Q(9)15s Jurong Empat, from:	1° 16′.13N., 103° 39′.22E.
		to:	1° 15′.90N., 103° 39′.22E.

Delete		Fl. Y. 4s Stolt WJ-2	1° 16′.51N., 103° 39′.59E.
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Chart 4039 [previous update 4523/16] WGS84 DATUM

Replace	depth, 2 ₃ , with depth, 1 ₅	1° 13′.43N., 103° 43′.46E.
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Chart 4040 [previous update 3935/16] WGS84 DATUM

Move		Q(9)15s Jurong Empat, from:	1° 16′.13N., 103° 39′.22E.
		to:	1° 15′.90N., 103° 39′.22E.

Updated to Admiralty Notices to Mariners Edition No. 39 of 2016 dated 29th Sep 2016

SINGAPORE ENC DISTRIBUTORS

ENC DISTRIBUTOR	ADDRESS	TEL/FAX /EMAIL/WEBSITE
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ChartWorld GmbH	Atlantic Haus, Zirkusweg 1 D-20359 Hamburg Germany	Tel: +49 40 853 58 6942 Fax: +49 40 853 58 6949 Email: sales@chartworld.com
ChartWorld Asia Pacific Pte Ltd.	Frontech Centre 07-01 15 Jalan Kilang Barat Singapore 159357	Tel: +65 6513 3500 Website: http://www.chartworld.com http://www.ecdis-as-a-service.com
Global Navigation Solutions Pte Ltd	2 Boon Leat Terrace #05-02/03/04, Harbourside Building 2 Singapore 119844	Tel: +65 6270 4060 Fax: +65 6276 3858 Email: sg.info@gnsworldwide.com Website: www.gnsworldwide.com
Japan Hydrographic Association (Electronic Charts Division)	Daiichi Sogo Bldg, 6F 1-6-6, Hanedakuko, Ota-ku Tokyo 144-0041, Japan	Tel: +81 3 5708 7093 Fax: +81 3 5708 7094 Email: shimizu-6kj@jha.jp Website: http://www.jha.or.jp/en/jha/
Maritime Information Systems (MARIS)	52, Telok Blangah Road #01-06 Telok Blangah House Singapore 058809	Tel: +65 6276 1472 Fax: +65 6276 1473 Email: : support@maris.sg Website: http://www.maris.no
Maritime Information Systems AS (MARIS)	Danholmen 25, 3128 Notteroy Norway	Tel: +47 33 30 42 50 Fax: +47 33 30 42 51 Email: : sales@maris.no Website: http://www.maris.no
Motion Smith	15 Jalan Kilang Barat #08-01/05 Frontech Centre Singapore 159357	Tel: +65 6220 5098 Fax: +65 6225 4902 Email:sales@motsmith.com Website: http://www.motsmith.com
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Transas Marine Pacific Pte Ltd	Cyber Centre 16/18 Jalan Kilang Barat Off Jalan Bukit Merah Singapore 159358	Tel: +65 6271 0200 Fax: +65 6271 7300 Email: navigation.asia@transas.com Website: http://www.transas.com
The United Kingdom Hydrographic Office	Admiralty Way, Taunton Somerset, TA1 2DN United Kingdom	Tel: +44 1823 33 7900 Fax: +44 1823 28 4077 Emails: ENCS.SalesReports@ukho.gov.uk Website: http://www.ukho.gov.uk

Chart Distributors for the Maritime and Port Authority of Singapore
Nautical Charts and Publications

Please approach any of the Chart Distributors to purchase the Singapore Nautical Charts and Publications.

CHART DISTRIBUTORS	ADDRESS	TEL/FAX/EMAIL/WEBSITE
Chartco (Singapore) Pte Ltd	896 Dunearn Road #03-05 Sime Darby Centre Singapore 589472	Tel: +65 6545 9880 Ext 65285 Fax: +65 6545 8892 Email: leslie.khoo@chartco.com Website: http://www.chartco.com
Cornes (Singapore) Pte Ltd	10 Anson Road #23-06/6A International Plaza Singapore 079903	Tel: +65 6223 8320 Fax: +65 6223 8321 Email: sales9850@cspl.sg Website: http://www.cornes-charts.com
E.W. Liner Charts & Publications Pte Ltd	100, Pasir Panjang Road #05-10 Singapore 118518	Tel: +65 6323 0773 Fax: +65 6323 0775 Email: sales@ewliner.com Website: http://www.ewliner.com
Global Navigation Solutions Pte Ltd	2 Boon Leat Terrace #05-02/03/04, Harbourside Building 2 Singapore 119844	Tel: +65 6270 4060 (After office hours: +65 9632 5268) Fax: +65 6276 3858 Email: sg.info@gnsworldwide.com Website: www.gnsworldwide.com
Motion Smith	15 Jalan Kilang Barat #08-01/05 Frontech Centre Singapore 159357	Tel: +65 6220 5098 (After office hours: +65 8163 9993) Fax: +65 6225 4902 Email: sales@motsmith.com Website: http://www.motsmith.com

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 :