ENROUTE CHART - ICAO

LEGEND

Aerodrome

Flight Information Region (FIR)
- Name of FIR — FIR SINGAPORE
- Upper Limit — UNL
- Lower Limit — GND/WATER
- Unit providing service — ACC SINGAPORE

Terminal Control Area (TMA)
- Name of TMA — TMA KUCHING
- Airspace Classification — C
- Upper Limit — FL 250
- Lower Limit — 3 000ft
- Radio Frequency (es) — 134.5,120.2

Control Zone (CTR)
- Name of CTR — CTR KUCHING
- Airspace Classification — C
- Upper Limit — 3 000ft
- Radio frequency (ies) — 120.2

ATS route
- Route designator — L642
- Magnetic track — 032° 122
- Distance in nautical miles
- Minimum flight altitude (ft)/flight level — 7 000/FL 140 — RNP 10
- Lower limit (ft)/flight level — (7 000)/(FL 140)
- Required navigation performance

ATS route reporting point by-pass
(No report is required on this route)

Reporting Point (REP) — Compulsory / On Request

ATS/MET reporting point (MRP) — Compulsory / On Request

Restricted Airspace
(P-Prohibited, R-Restricted, D-Danger)
- Identification of area — WS08
- Nationality letter
- Vertical limits — FL 400 / WATER

Note : Restricted airspace outside Singapore FIR are not shown

Collocated VOR and DME navigation aids (VOR/DME)
Compass rose orientated on the chart to Magnetic North

Identification for radio navigation aids (NAVAID)
- Name — SNJON
- NAVAID, frequency, identification or call sign — DVOR/DME 113.0
- Geographical coordinates in WGS-84 — 01°12'21"N 103°50'13"E
- Elevation of DME site (to the nearest 30m) — 60m

COP at mid-point between VOR are not shown

Area Minimum Altitude (AMA)

Each 2° quadrilateral contains an area minimum altitude (AMA) which represents the lowest altitude which may be used under instrument meteorological conditions (IMC). The AMA provides a minimum clearance of 1 000 feet (300m) above all terrains and obstacles in the quadrilateral. It is represented in thousands and hundreds of feet above mean sea level.

Example : 3 500 feet **3 5**

(A) Airway in which Mach Number Technique and RNAV are applied (Refer to pages ENR 1.8-13 to 1.8-18)

(B) Inbound and Outbound flights exempted from reporting aircraft observations at these points.

WSJC/WMFC FIR BDRY REPORTING POINTS

TAXUL 03 50.35N 103 40.37E	**MANIM** 03 14.30N 104 05.54E
BUVAL 03 36.22N 103 43.41E	**KETOD** 03 10.42N 104 09.42E
DOVOL 03 30.47N 103 49.23E	**RAXIM** 03 03.18N 104 17.13E
IDSEL 03 24.52N 103 55.44E	**KIBOL** 02.52.24N 104 28.18E
EGOLO 03 19.34N 104 00.47E	**LENDA** 02.41.24N 104 39.32E

RVSM SEPARATION AVAILABLE SINGAPORE FIR BTN FL 290 AND FL 410 (Inclusive)

AIRSPACE CLASSIFICATION IN THE SINGAPORE FIR

Airspace		Levels	Classification
Controlled airspace		FL 150 to FL 460	A
		Surface to FL 150	B
Controlled airspace more than 100 nm seaward from the shoreline		Lower limit to FL 460	A
Control Zones (CTRs)	Changi CTR	Surface to upper limit	C
	Paya Lebar CTR		D
	Seletar CTR		C
ATZs		Surface to upper limit	D
Uncontrolled airspace			G*

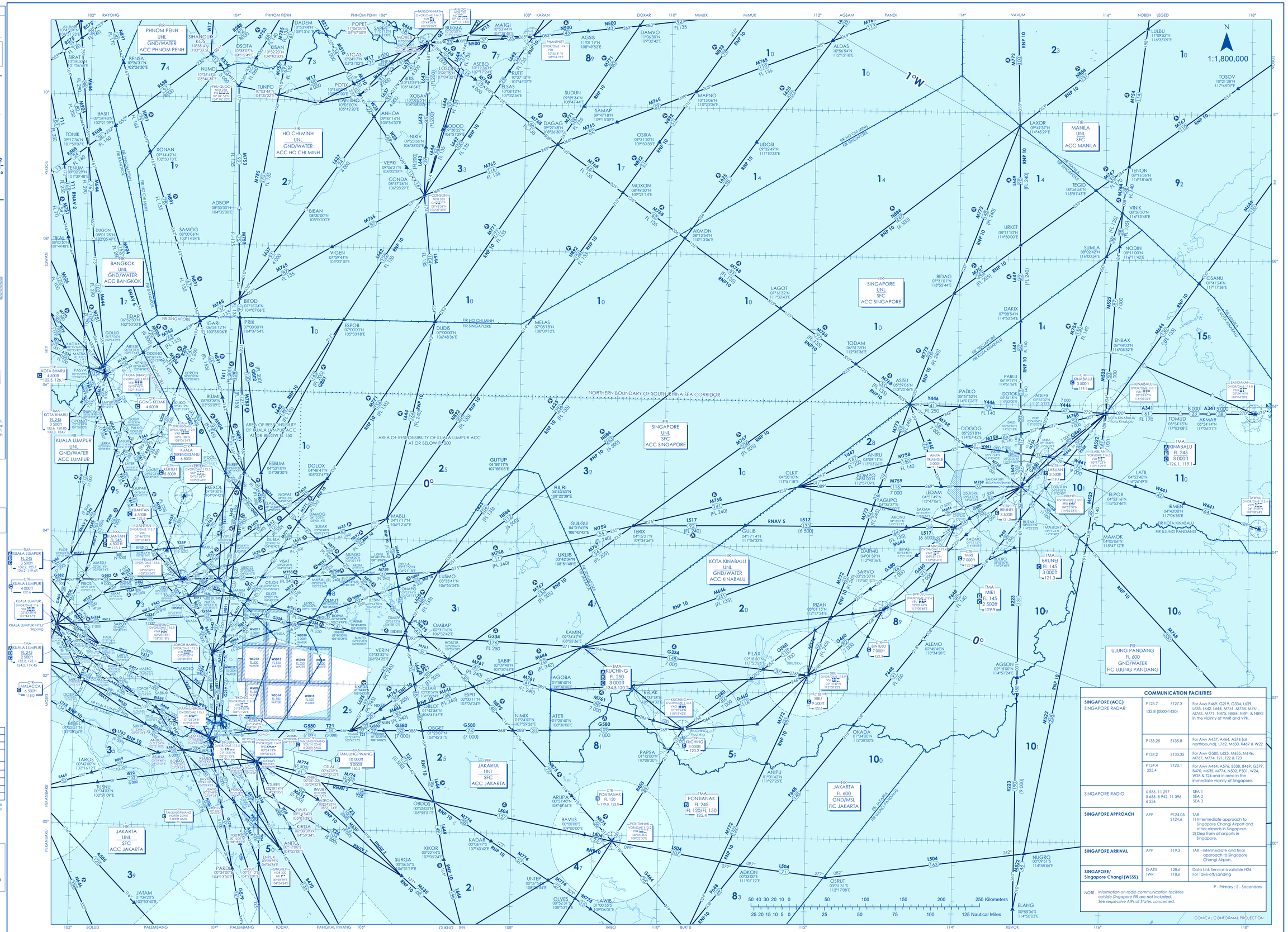
* Aircraft operating in Light Aircraft Training Areas A, B and C (please refer to AIP Singapore page ENR 5.2-1) are required to have continuous two-way communications with the appropriate ATS authority.

CAUTION

Consult respective NOTAMs and AIPs of States concerned for the latest information
and
the Civil Aviation Authority of Singapore does not accept responsibility for any errors or omissions in the information shown outside of Singapore FIR

MAGNETIC INFORMATION FOR THE YEAR 2020

VAR 0°23'E (2020)



COMMUNICATION FACILITIES

SINGAPORE (ACC) SINGAPORE RADAR	P123.7	5127.3	For Ary B469, G219, G334, L629, L635, L642, L644, M751, M758, M761, M763, M771, N875, N884, N891 & N892 in the vicinity of VMR and VPK.
	P133.25	5135.8	For Ary A457, A464, A576 (all northbound), L762, M630, R469 & W22
	P134.2	5133.35	For Ary G580 L625, M635, M646, M767, M774, T21, T22 & T23
	P134.4 255.4	5128.1	For Ary A464, A576, B338, B469, G579, B470, M635, M774, N502, P501, W24, W26 & T24 and in area in the immediate vicinity of Singapore.
SINGAPORE RADIO	6 556, 11 297, 5 655, 8 942, 11 396 6 556		SEA 1 SEA 2 SEA 3
SINGAPORE APPROACH	APP	P124.05 5124.6	TAR - 1) Intermediate approach to Singapore Changi Airport and other airports in Singapore. 2) Dep from all airports in Singapore.
SINGAPORE ARRIVAL	APP	119.3	TAR - Intermediate and final approach to Singapore Changi Airport.
SINGAPORE/ Singapore Changi (WSSS)	D-ATIS TWR	128.6 118.6	Data Link Service available H24. For Take-off/Landing

P - Primary ; S - Secondary

NOTE : Information on radio communication facilities outside Singapore FIR are not included. See respective AIPs of States concerned.

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CHANGES: Editorial changes within Singapore, Jakarta and Kota Kinabalu FIR.
Amendment of ATS Routes M763 and Y332 where TAKUL and PADLI are located.