

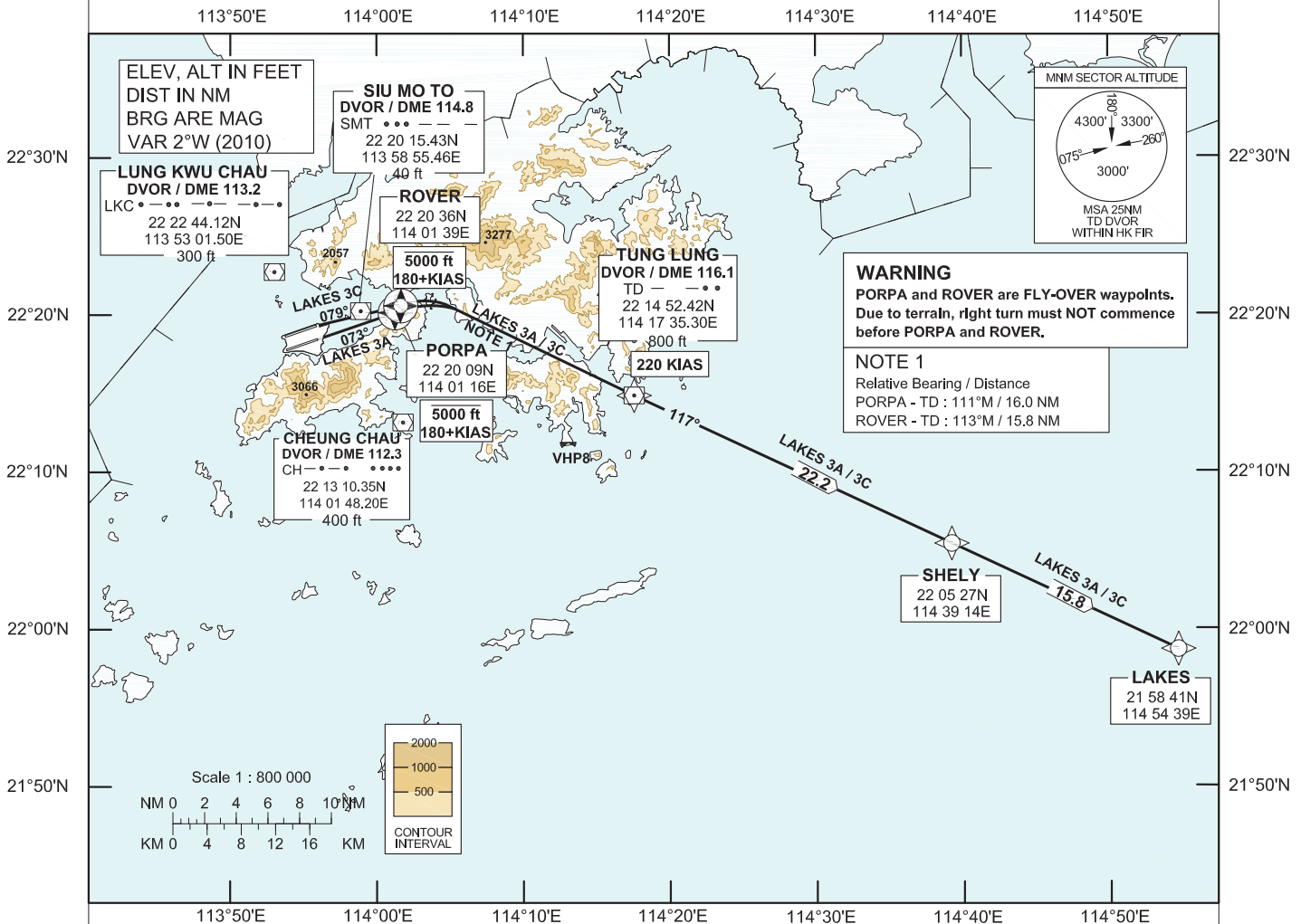
AIP HONG KONG

**STANDARD DEPARTURE CHART-  
INSTRUMENT (SID) - ICAO**

Transition Altitude 9 000 ft	
Hong Kong Tower South	118.4
Hong Kong Tower North	118.2
Hong Kong Departure	123.8

**HONG KONG / Intl (VHHH)  
RNAV (GNSS) LAKES 3A SID RWY 07R  
RNAV (GNSS) LAKES 3C SID RWY 07L**

1. For RNAV (GNSS) SID, aircraft must be approved by State of Registry in accordance with ICAO RNP 1 standard or equivalent (see GEN 1.5 para 3.5.2 on page GEN 1.5-2). Carriage of certified GNSS receiver is mandatory.
2. In the event that PBN performance ceases to comply with the requirements for RNP 1 after departure, pilots must notify ATC as soon as possible. ATC assistance would be provided as necessary.
3. Only specific categories of flights (e.g. SAR) as stated in GEN 1.5 para 3.5.2.4 are exempted from the RNP 1 requirement. These flights shall fly the contingency procedures as detailed in AD 2.22 para 2.2.3.5.
4. PORPA and ROVER are **FLY-OVER** waypoints. All other waypoints are fly-by.
5. (DER) - Departure End of Runway.



**LAKES 3A SID RWY 07R**

**RNP 1 Procedure**

PORPA[A5000-,K180+;R] - TD[K220;R] - SHELLY - LAKES

**CLIMB REQUIREMENT**

Initial climb to 5 000 ft. Expect further climb when instructed by ATC. Cross PORPA at 5 000 ft or below.

**TERRAIN CLEARANCE**

Minimum climb gradient of 4.9% (298 ft/NM) until leaving 1 400 ft is required.

**SPEED RESTRICTION**

Speed restriction of 180 KIAS or greater at PORPA and 220 KIAS until TD DVOR.

**LAKES 3C SID RWY 07L**

**RNP 1 Procedure**

RWY07L(DER)[R] - ROVER[A5000-,K180+;R] - TD[K220;R] - SHELLY - LAKES

**CLIMB REQUIREMENT**

Initial climb to 5 000 ft. Expect further climb when instructed by ATC. Cross ROVER at 5 000 ft or below.

**TERRAIN CLEARANCE**

Minimum climb gradient of 4.1% (250 ft/NM) until leaving 1 400 ft is required.

**SPEED RESTRICTION**

Speed restriction of 180 KIAS or greater at ROVER and 220 KIAS until TD DVOR.

CHANGE: Update of text.

**FMC Database Coding Reference for Hong Kong RNAV<sub>(GNSS)</sub> SIDs**

**Designator: LAKES 3A Runway 07R**

<i>Serial Number</i>	<i>Path Descriptor</i>	<i>Waypoint Identifier</i>	<i>Fly-over</i>	<i>Course/Track (°M)</i>	<i>Magnetic Variation</i>	<i>Distance (NM)</i>	<i>Turn Dir</i>	<i>Altitude (ft)</i>	<i>Speed (KIAS)</i>	<i>Navigation Specification</i>
01	CF	PORPA	Y	073	+2.0	5.0	R	5000-	180+	RNP 1
02	DF	TD	-	-	+2.0	16.0	R	-	220	RNP 1
03	TF	SHELY	-	117	+2.0	22.2	-	-	-	RNP 1
04	TF	LAKES	-	117	+2.0	15.8	-	-	-	RNP 1

**Designator: LAKES 3C Runway 07L**

<i>Serial Number</i>	<i>Path Descriptor</i>	<i>Waypoint Identifier</i>	<i>Fly-over</i>	<i>Course/Track (°M)</i>	<i>Magnetic Variation</i>	<i>Distance (NM)</i>	<i>Turn Dir</i>	<i>Altitude (ft)</i>	<i>Speed (KIAS)</i>	<i>Navigation Specification</i>
01	CF	RW07L (DER)	Y	073	+2.0	-	-	-	-	RNP 1
02	FA	RW07L (DER)	Y	073	+2.0	-	R	430+	-	RNP 1
03	CF	ROVER	Y	079	+2.0	5.3	R	5000-	180+	RNP 1
04	DF	TD	-	-	+2.0	15.8	R	-	220	RNP 1
05	TF	SHELY	-	117	+2.0	22.2	-	-	-	RNP 1
06	TF	LAKES	-	117	+2.0	15.8	-	-	-	RNP 1

**Waypoint and Coordinates**

<i>Waypoint Identifier</i>	<i>Coordinates (WGS-84)</i>
RWY 07L (DER)	22 19 21.08N 113 56 02.35E
PORPA	22 20 09.10N 114 01 16.30E
ROVER	22 20 35.58N 114 01 39.12E
TD	22 14 52.42N 114 17 35.30E
LAKES	21 58 41.30N 114 54 38.60E
SHELY	22 05 26.65N 114 39 13.94E