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**ENR 3.5 OTHER ROUTES**
**1 KUALA LUMPUR TERMINAL AREA - VFR ROUTES SYSTEM****1.1 Introduction**

1.1.1 VFR routes are provided to allow transit through the Kuala Lumpur CTR, VFR access to SAAS Subang Airport and helicopter VFR access routes to KLIA Sepang.

1.1.2 Simpang is served directly by a VFR route.

1.1.3 VFR routes apply only to controlled airspace. However VFR routes are described from/to the first significant visual fix outside controlled airspace.

**1.2 Route description****1.2.1 VFR Route 1 :**

VFR Route 1 is a coastal route providing transit through the CTR.

Route description: Kuala Selangor - 1 500 FT - Track west of coastal road - Port Klang - 1 500 FT - Morib - 1 000 FT - Track coastal over water - Tanjung Sepat - 1 000 FT - Track coastal over water - Port Dickson.

Airspace classification: C

Hour of operation: HJ

**Note : VFR traffic between Port Klang and Port Dickson may be held enroute subject to disposition of KLIA traffic.**

**1.2.2 VFR Route 2 :**

VFR Route 2 is an inland route providing transit through the CTR .

Route description: Serendah - 2 000 FT - Rawang - 2 000 FT - Batu Caves - 2 000 FT - Simpang - 2 000 FT - Kajang - 2 000 FT - Mantin - 1 900 FT - Seremban - 1 900 FT - Pedas.

Airspace classification: C

Hour of operation: HJ

**1.2.3 VFR Route 3 :**

VFR Route 3 is an inland route providing access across the central mountain range to VFR route 2.

Route description: Bentong - 3 000 FT - Track via Highway - Batu Caves.

Airspace classification: C

Hour of operation: HJ

**1.2.4 Subang Eastern Access Route :**

Rawang - 1 500 FT - Nibong Gila - 1 500 FT - Subang.

Batu Caves - 1 500 FT - Nibong Gila - 1 500 FT - Subang.

Simpang - 1 500 FT - Nibong Gila - 1 500 FT - Subang.

Airspace classification: C

Hour of operation: HJ

**1.2.5 Subang Western Access Route :**

Port Klang - 1 500 FT - MARA Building - 1 500 FT - Subang.

Kapar - 1 500 FT - South of T.CSF Radar site - Subang.

Airspace classification: C

Hour of operation: HJ

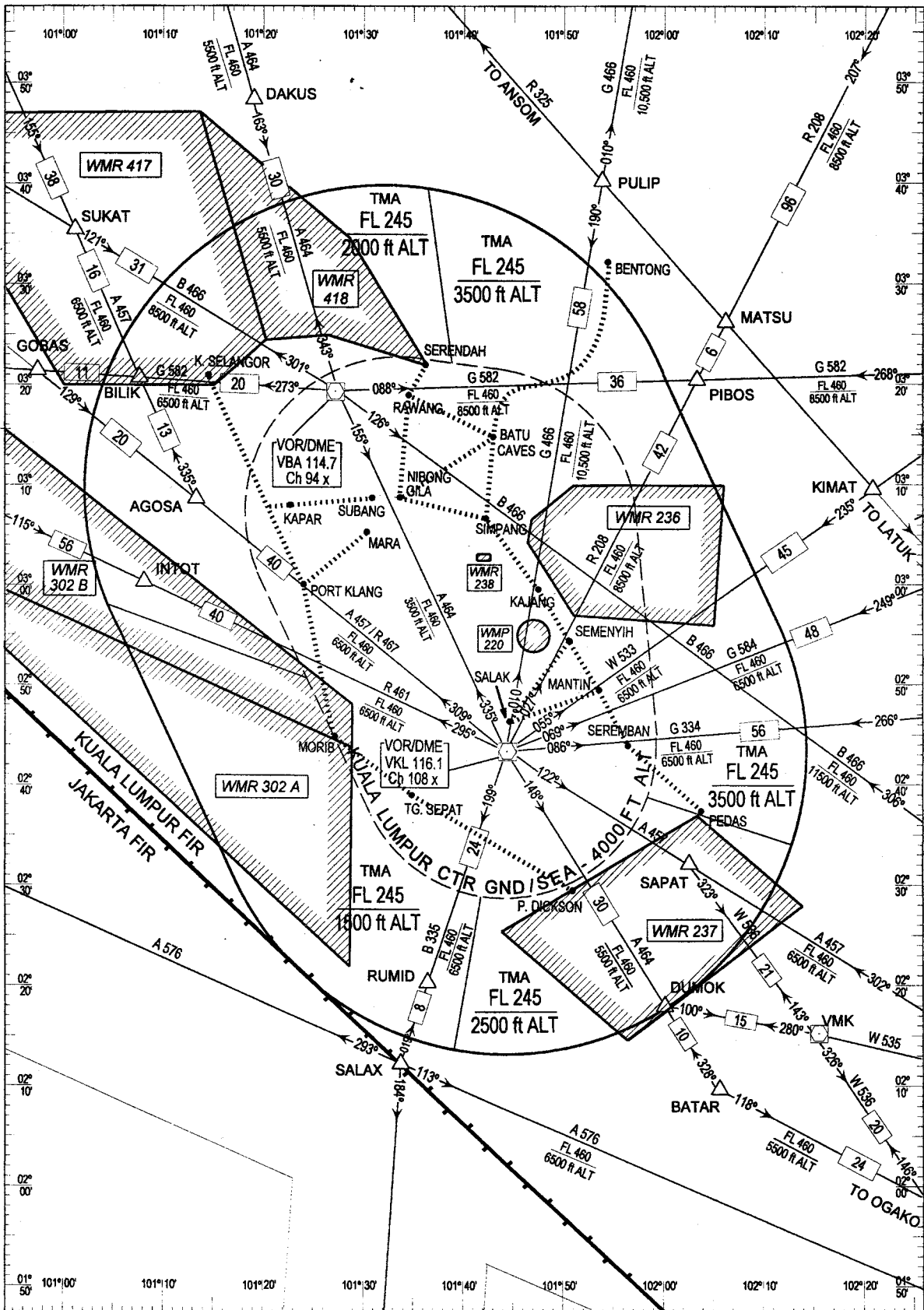
**1.3 VFR Route coordinates and coastal visual fixes:**

i)	Batu Cave	031449N 1014255E
ii)	Bentong	033159N 1015425E
iii)	Kuala Selangor	032039N 1011430E
iv)	Kajang	025929N 1014725E
v)	Kapar	030759N 1012225E

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vi)	Mantin	024929N 1015325E
vii)	Mara Building	030417N 1012925E
viii)	Morib	024453N 1012655E
ix)	Pedas	023729N 1020343E
x)	Port Dickson	022930N 1015055E
xi)	Port Klang	025959N 1012355E
xii)	Rawang	031859N 1013425E
xiii)	Salak	024625N 1014444E
xiv)	Semenyih	025659N 1015035E
xv)	Seremban	024359N 1015620E
xvi)	Serendah	032159N 1013613E
xvii)	Simpang	030641N 1014210E
xviii)	Tanjong Sepat	023859N 1013455E

# KUALA LUMPUR TMA VISUAL FLIGHT RULES (VFR) ROUTES



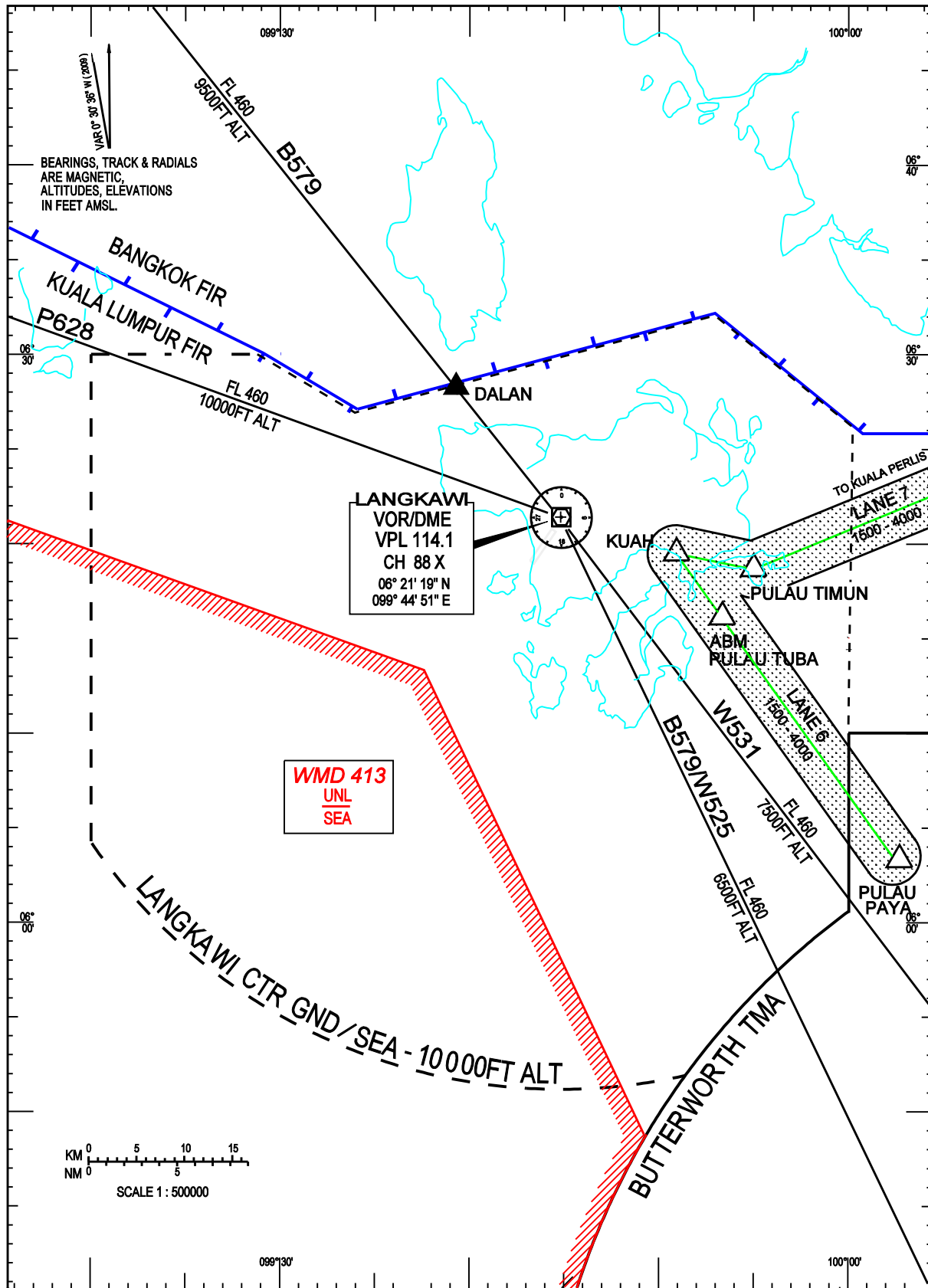
## 2. VFR LANE SYSTEM - LANGKAWI CONTROL ZONE

### 2.1 The following VFR Lanes are established within the Langkawi CTR :

Name	Width (NM)	Vertical (FT ALT)	Track	Restrictions	Airspace Classification
Lane 6	3	4 000 1 500	Kuah - Pulau Tuba thence to Pulau Payar	Descend to reach Kuah at 1500 ft Obtain ATC clearance to enter CIRA before Kuah. If no clearance received, hold at Kuah at 1500 ft.	C
Lane 7	3	4 000 1 500	Kuah - Pulau Timun thence to Kuala Perlis	Descend to reach Kuah at 1500 ft Obtain ATC clearance to enter CIRA before Kuah. If no clearance received, hold at Kuah at 1500 ft.	C

- 2.2 VFR traffic are required to track via Pulau Paya to enter Lane 6 and Kuala Perlis to enter Lane 7.
- 2.3 VFR Lane traffic will be provided with traffic information where available. They will not be provided with separation between other VFR traffic (Class C airspace) whether in the Lanes or outside them.
- 2.4 If transponder equipped, VFR traffic should squawk the assigned code. Where no discrete code is assigned, squawk 2000 until another code is assigned. This may not necessarily be a discrete code.
- 2.5 Due to low level operational limitation of the PSR and mountainous terrain, low altitude VFR aircraft, especially to the north, may not be detected until close to Langkawi Airport.

# LANGKAWI CONTROL ZONE VISUAL FLIGHT RULES (VFR) LANES



**3. VFR ROUTE SYSTEM - MIRI CONTROL ZONE****3.1 The following VFR Routes are established within the Miri CTR:****3.1.1 COASTAL****3.1.1.1 ROUTE 1**

From Kuala Baram track 184°/Coastal, Alt. below 2000ft to the west of Tg. Lobang VFR Hold.

**3.1.1.2 ROUTE 3**

From Kuala Niah Track 032°/Coastal, Alt. below 2000ft to west of Tg. Lobang VFR Hold.

**3.1.2 INLAND****3.1.2.1 ROUTE 2**

From Batang Baram NE (R-072/17.3VMI) track 241°, Alt. below 3000ft to Lambir Waterworks Tower VFR Hold.

**3.1.2.2 ROUTE 4**

From Marudi track 293°, Alt. below 3000ft to Lambir Waterworks Tower VFR Hold.

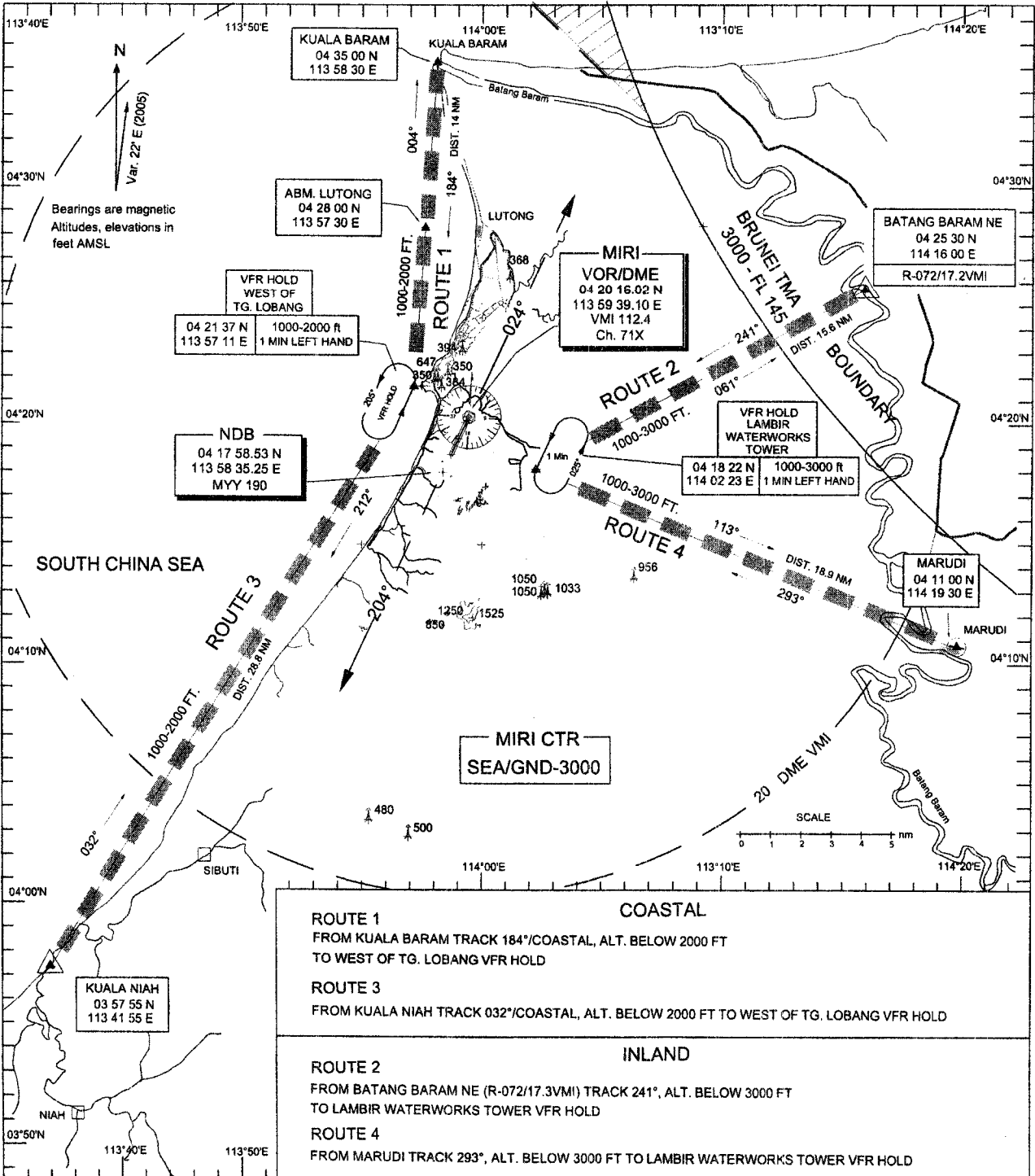
**VISUAL CHART**  
- ICAO

AD ELEV 59ft

TRANSITION ALTITUDE  
11000 FT

TWR - 123.30 (P)  
- 122.70 (S)  
SMC - 121.9  
ATIS - 127.0

**MIRI / MIRI**  
**SARAWAK**  
**VFR ROUTES**



#### 4. VFR LANE SYSTEM - IPOH CONTROL ZONE

##### 4.1 The following VFR Lanes are established within the IPOH CTR :

Name	Width (NM)	Vertical (FT ALT)	Track	Restrictions	Airspace Classification
Lane 8	3	<u>3 000</u> 1 500	Bidor - Kampar - Gopeng	Arriving aircraft to descend to reach Kampar at 1500 ft.	C
Lane 9	3	<u>3 000</u> 1 500	Teluk Intan -Kampar - Gopeng	Arriving aircraft to descend to reach kampar at 1500 ft.	C
Lane 10	3	<u>3 000</u> 1 500	Batu Hampar - Parit - Batu Gajah	Arriving aircraft to descend to reach Parit at 1500 ft. Expect to to HOLD west of Perak River off Parit Town due to other arriving and departing aircraft at Ipoh airfield.	C

4.2 VFR LANES are 3 NM wide based on towns and prominent Landmarks.

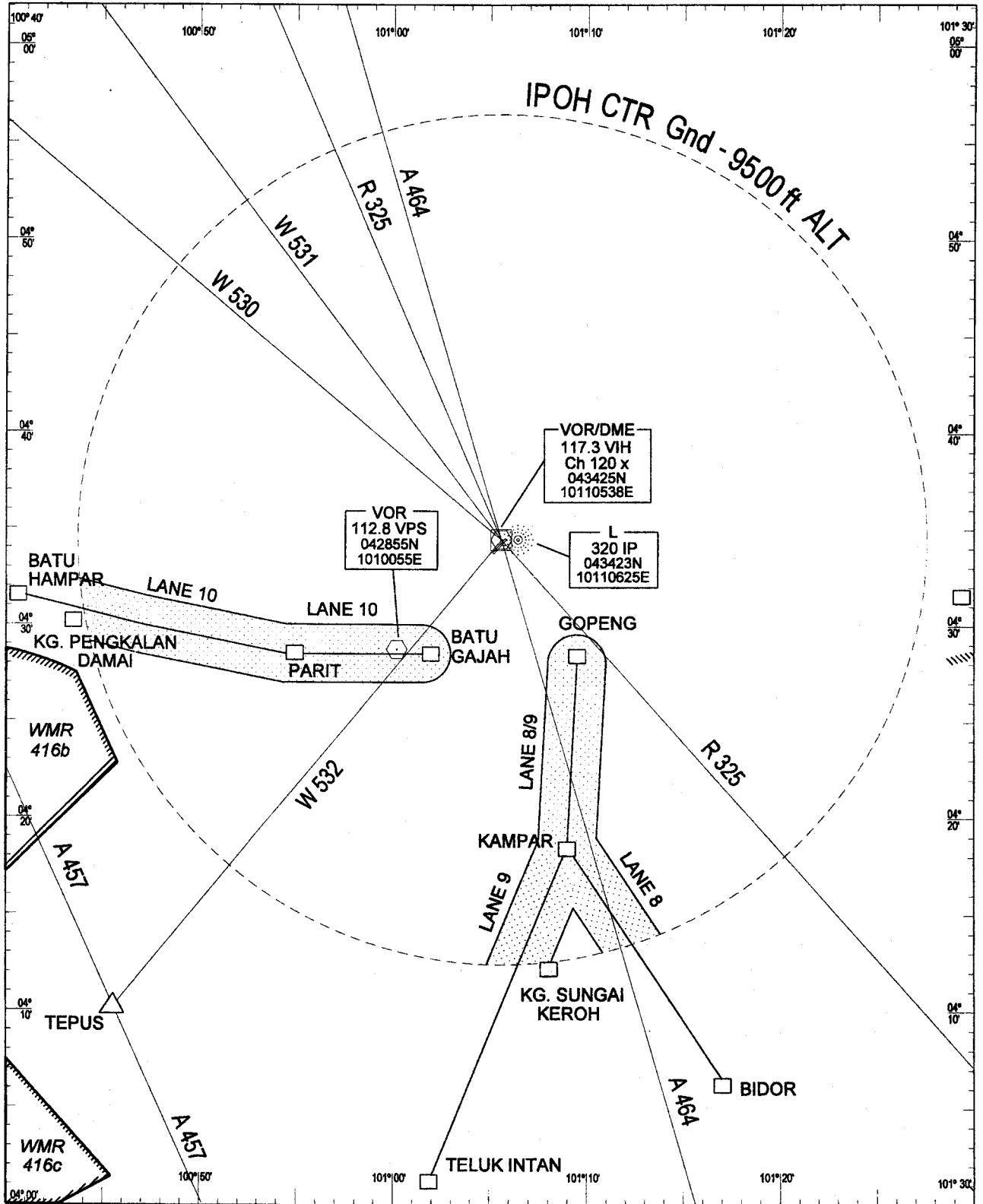
4.3 VFR Lanes shall be used in VMC and by day only.



# IPOH CONTROL ZONE VISUAL FLIGHT RULES (VFR) LANES

AIP MALAYSIA

ENR 3.5 - 15



**5. VFR ROUTE SYSTEM - BINTULU CONTROL ZONE****5.1 The following VFR Routes are established within the Bintulu CTR :****5.1.1 VFR Route 1**

From Kuala Balingian track 075° / coastal, altitude 1500 FT to Kuala Tatau; track 075° / coastal, altitude 1500 FT to Setiam VFR Hold

**5.1.2 VFR Route 2**

From Dom track 057° / Sibul-Bintulu Highway, altitude 1500 FT to Tatau; track 022° / Sibul-Bintulu Highway, altitude 1500 FT to Jalingai; track 022° altitude 1500 FT to Setiam VFR Hold

**5.1.3 VFR Route 3**

From Tubau track 263° to Usek, altitude 1500 FT to Sebauh; track 285° / Btg. Kemena, altitude 1500 FT to Kemena VFR Hold

**5.1.4 VFR Route 4**

From Tg. Similajau track 214° altitude 1500 FT to Likau; track 204° altitude 1500 FT to Kemena VFR Hold



**6. VFR ROUTE SYSTEM - SIBU CONTROL ZONE**

- 6.1 **ROUTE 1** : From Saratok Alt 1500FT - Pakan Road - Leng - Alt 1000FT to Pulau Dudong Hold.
- 6.2 **ROUTE 2** : From Matu Alt 1500FT - T River Junction - Alt 1000FT to Pulau Dudong Hold.
- 6.3 **ROUTE 3** : From Mukah Alt 1500FT - Abeam Narub - Nanga Tamin - Alt 1000FT to Meruan Hold.
- 6.4 **ROUTE 4** : From Tatau Alt 1500FT - Selangau - Stapang - Alt 1000FT to Meruan Hold.
- 6.5 **ROUTE 5** : From Song Alt 1500FT - Kanowit - Alt 1000FT - Durin Town to Pulau Dudong Hold.

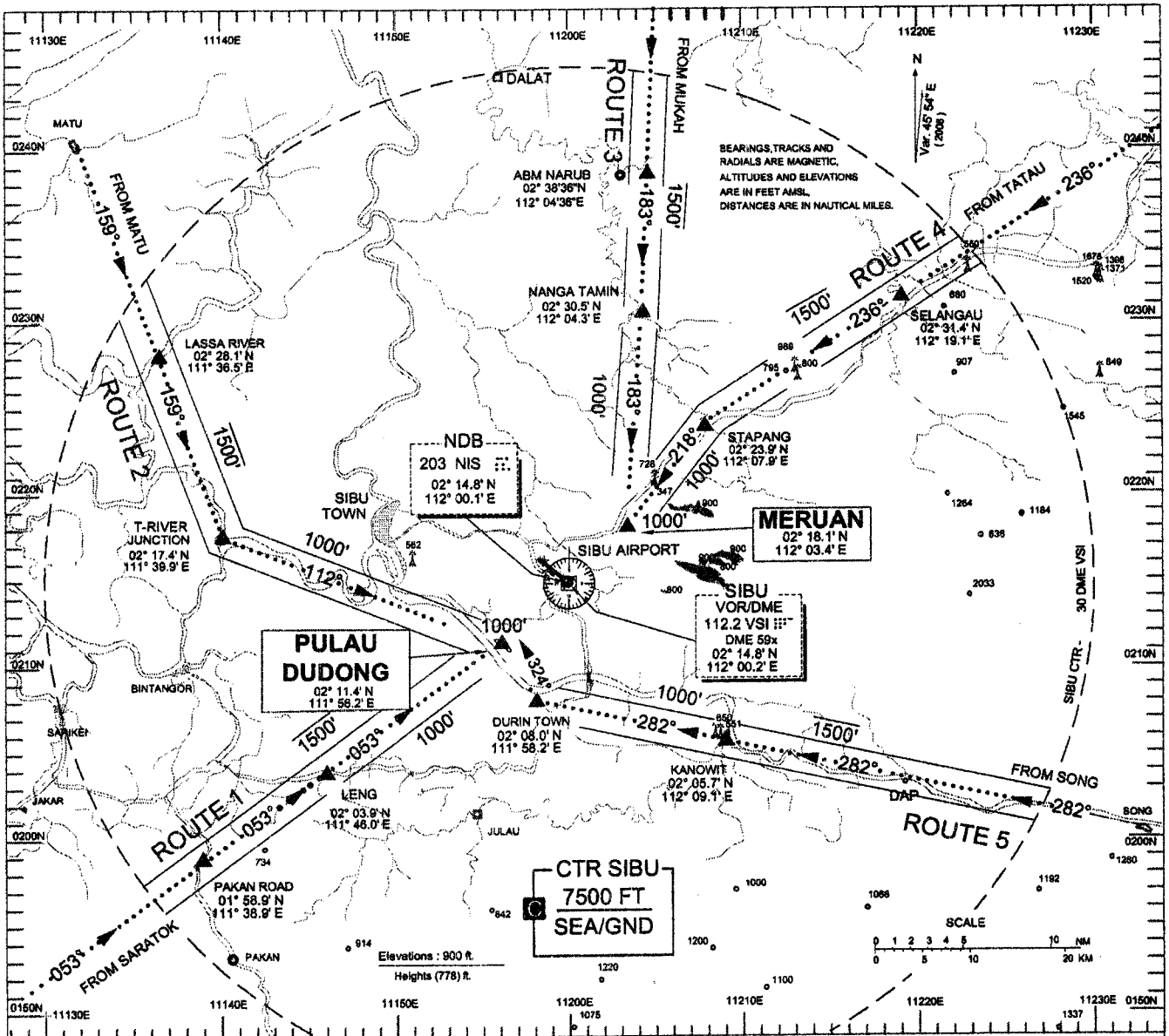
VFR ROUTES  
CHART

AD ELEV 122 FT  
HEIGHTS RELATED  
TO AD ELEV

TRANSITION  
ALTITUDE  
11,000 FT

TWR / APP - 122.6 (P)  
- 123.2 (S)  
GND - 121.9  
ATIS - 127.65  
EMRG - 121.5

SIBU / SIBU  
VFR ROUTES



- ROUTE 1 : FROM SARATOK ALT 1500 FT - PAKAN ROAD - LENG - ALT 1000 FT TO PULAU DUDONG
- ROUTE 2 : FROM MATU ALT 1500 FT- T RIVER JUNCTION - ALT 1000 FT TO PULAU DUDONG
- ROUTE 3 : FROM MUKAH ALT 1500 FT- ABEAM NARUB - NANGA TAMIN - ALT 1000 FT TO MERUAN
- ROUTE 4 : FROM TATAU ALT 1500 FT- SELANGAU - STAPANG - ALT 1000 FT TO MERUAN
- ROUTE 5 : FROM SONG ALT 1500 FT- KANOWIT - ALT 1000 FT - DURIN TOWN TO PULAU DUDONG

**7. VFR ROUTE SYSTEM - ALOR STAR CONTROL ZONE**

7.1 **LANE 6** : From Pulau Payar - Alt 1500FT to Kuala Kedah.

7.2 **LANE 7** : From Pulau Timun - Alt 1500FT to Kuala Perlis.

7.3 **LANE 8** : From North - Kuala Perlis - Kuala Sanglang - Ayer Hitam - Alt 1500FT to Kuala Kedah.

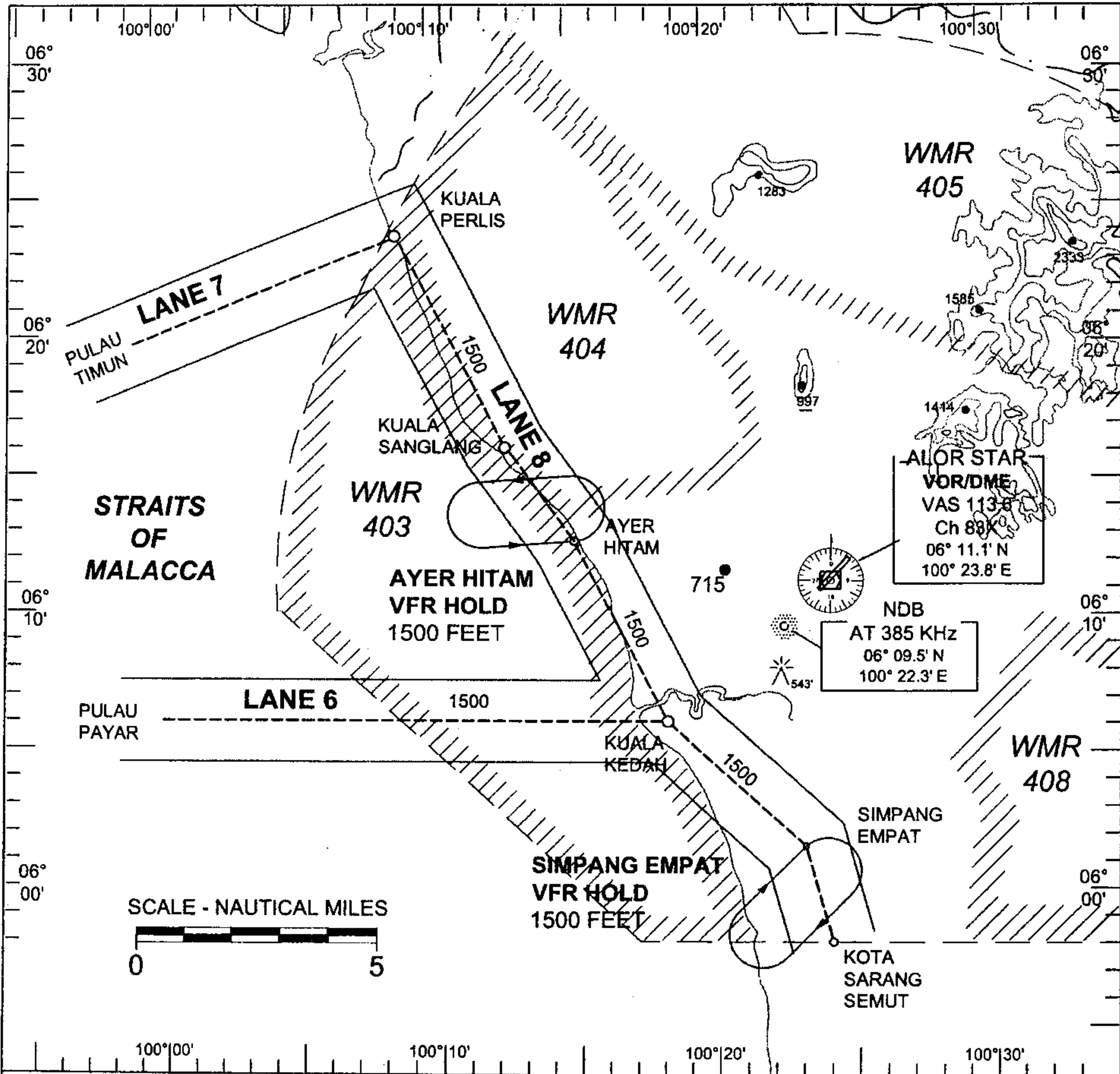
From South - Kota Saraang Semut - Simpang Empat - Alt 1500FT to Kuala Kedah.

**VISUAL  
APPROACH  
CHART - ICAO**

AD. ELEV. 15 FT  
HEIGHT RELATED TO  
THR RWY 04 ELEV 14 FT

TWR - 122.3  
SMC - 121.6

**ALOR STAR / SULTAN ABDUL HALIM  
VFR ROUTES**



**LANE 6 :** FROM PULAU PAYAR ALT 1500 FT TO KUALA KEDAH

**LANE 7 :** FROM PULAU TIMUN - ALT 1500 FT TO KUALA PERLIS

**LANE 8 :** FROM NORTH - KUALA PERLIS - KUALA SANGLANG - AYER HITAM - ALT 1500 FT TO KUALA KEDAH  
FROM SOUTH - KOTA SARANG SEMUT - SIMPANG EMPAT - ALT 1500 FT TO KUALA KEDAH

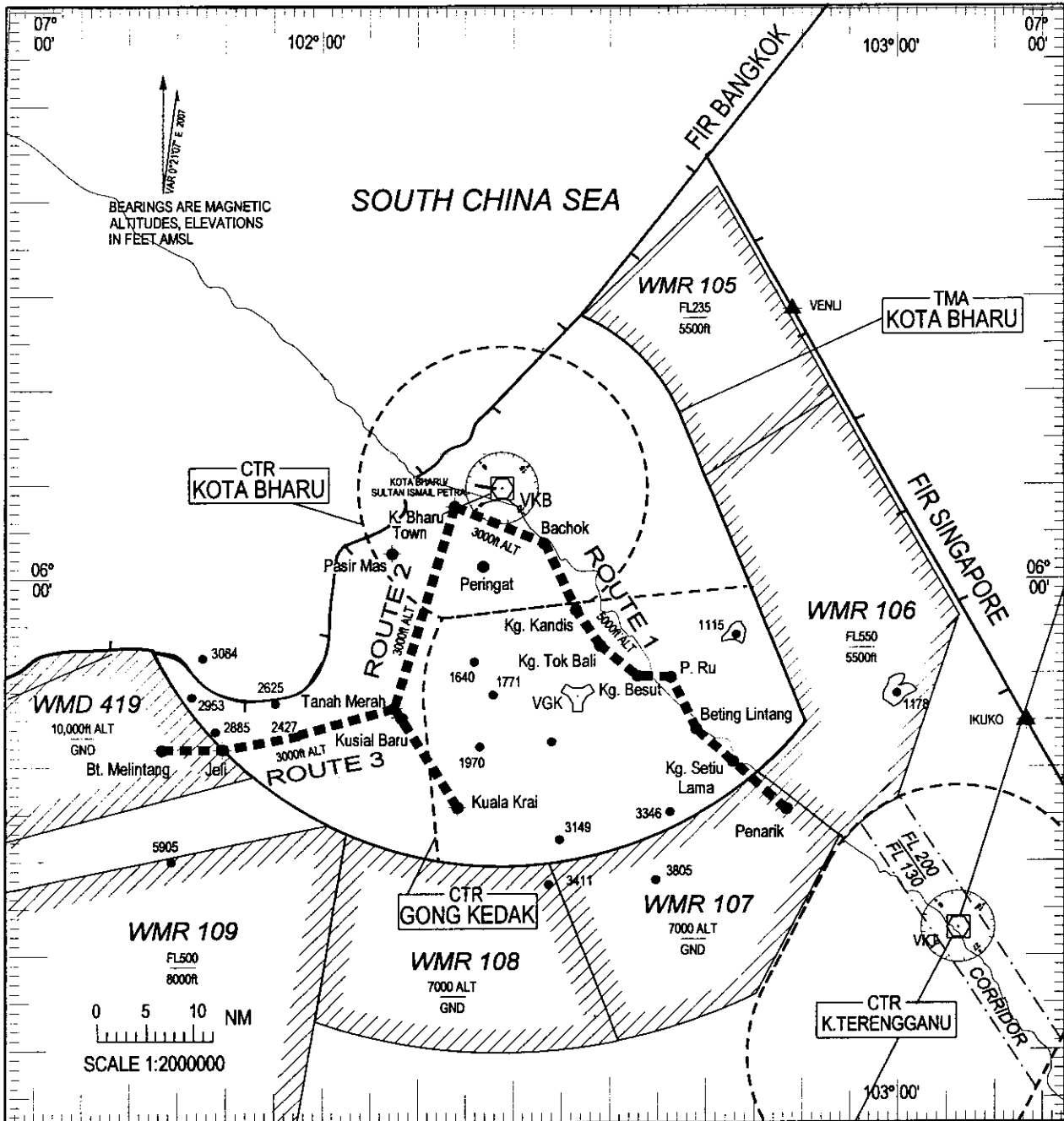
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**8. VFR ROUTE SYSTEM - KOTA BHARU CONTROL ZONE AND TMA**

- 8.1 **ROUTE 1:** Penarik (053543N 1024824E) – Kg. Setiu Lama (054053N 1024246E) – ALT 3000FT. - Beting Lintang (054415N 1023903E) – P.RU (054951N 1023623E) - Kg. Besut (054955N 1023255E) - Kg. Tok Bali (055304N 1022906E) – Kg. Kandis (055653N 1022634E) - ALT 5000FT - Bachok (060354N 1022324E) - Kota Bharu Town (060755N 1021355E) . ALT 3000FT.
- 8.2 **ROUTE 2:** Kuala Krai (053557N 1021412E) - Tanah Merah (054629N 1020736E) - ALT 3000FT - Kota Bharu Town(060755N 1021355E). ALT 3000FT.
- 8.3 **ROUTE 3:** Bt. Melintang (054205N 1014325E) – Jeli (054205N 1014941E) - Tanah Merah (054629N 1020736E). ALT 3000FT.



## VISUAL FLIGHT RULES ROUTES (VFR) - KOTA BHARU



### VFR Routes :

- ROUTE 1 : Penarik (053543N 1024824E) - Kg. Setiu Lama (054053N 1024246E) ALT 3000ft - Beting Lintang (054415N 1023903E) - P. Ru (054951N 1023623E) - Kg. Besut - (054955N 1023255E) - Kg. Tok Bali (054304N 1022906E) - Kg. Kandis (055653N 1022634E) - Bachok (060354N 1022324E) ALT 5000ft - Kota Bharu Town (060755N 1021355E) ALT 3000ft
- ROUTE 2 : Kuala Krai (053557N 1021412E) - Tanah Merah (054629N 1020736E) ALT 3000ft - Kota Bharu Town (060755N 1021355E) ALT 3000ft
- ROUTE 3 : Bt. Melintang (054205N 1014325E) - Jeli (054205N 1014941E) - Tanah Merah (054629N 1020736E) ALT 3000ft

## 9. VFR LANE SYSTEM - JOHOR BAHRU CONTROL ZONE AND TMA

### 9.1 Lane description

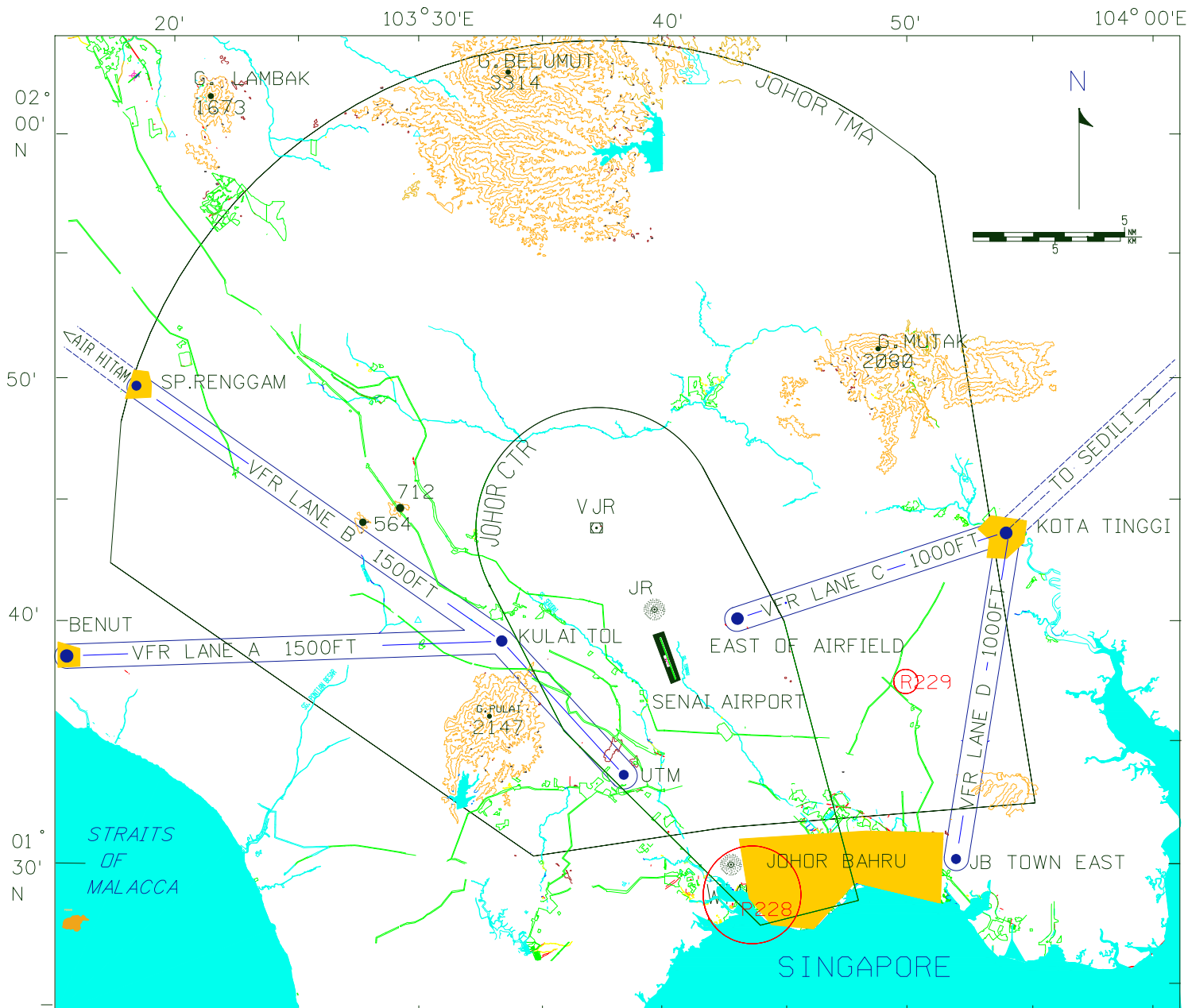
- 9.1.1 **VFR LANE ALPHA :** Coastal - not above 3000FT - Benut - 1500FT - Kulai Tol Plaza - University Technology Malaysia (UTM)
- 9.1.2 **VFR LANE BRAVO :** Inland - not above 3000 FT - Simpang renggam - 1500 FT - Kulai Tol Plaza - University Technology Malaysia (UTM)
- 9.1.3 **VFR LANE CHARLIE :** Kpg. Kuala Sedili Besar - 1000 FT - Kota Tinggi - 1000 FT - East Of Johot Bahru Airfield
- 9.1.4 **VFR LANE DELTA :** JB Town East - 1000 FT - Kota Tinggi - East of Johor Bahru Airfield.

### 9.2 VFR Routes coordinates :

	Geographical Position	Coordinates (WGS84)
i	UTM Mosque	013333N 1033815E
ii	Benut	013839N 1031534E
iii	Kulai Tol Plaza	013900N 1033318E
iv	East of Johor Bahru Airfield	014005N 1034259E
v	Kota Tinggi Bridge	014344N 1035406E
vii	East of Johor Bahru Town	013014N 1035154E
vii	Kpg. Sedili Besar	015536N 1040658E
viii	Spg. Renggam Town	014940N 1031834E
ix	Air Hitam	015552N 1031033E
x	Yong Peng	020102N 1030347E

# JOHOR TMA

## VISUAL FLIGHT RULE (VFR) LANES



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**10. VFR ROUTES SYSTEM - MALACCA CONTROL ZONE**

10.1 Route1 : From Tg. Tuan Alt not above 2000FT - Terendak - Malacca City - Umbai - Muar.

(Aircraft to fly not below 1000FT and remain clear of Petronas Refinery and Terendak Army Camp).

10.2 Route 2 : From Tampin - Alt not above 2000FT east of North-South expressway - Tangkak - Pagoh.

10.3 Route 3 : From Tangkak Alt not above 2000FT - Chin Chin - Bt. Beruang VFR Hold.

10.4 Route 4 : From Umbai Alt not above 2000FT - Bt. Beruang VFR Hold.

10.5 Route 5 : From Terendak Alt not above 2000FT - Bertam VFR Hold.

(Aircraft to fly not below 1000FT and remain clear of Terendak Army Camp)

10.6 Route 6 : From Tampin Alt not above 2000FT - Bertam VFR Hold.

Note 1: Bt. Beruang Hold located East of Malacca Water City Resort.

Note 2: Bertam Hold located west of Bertam Hulu Flyover.

Note 3: Width of VFR Route = 2NM.

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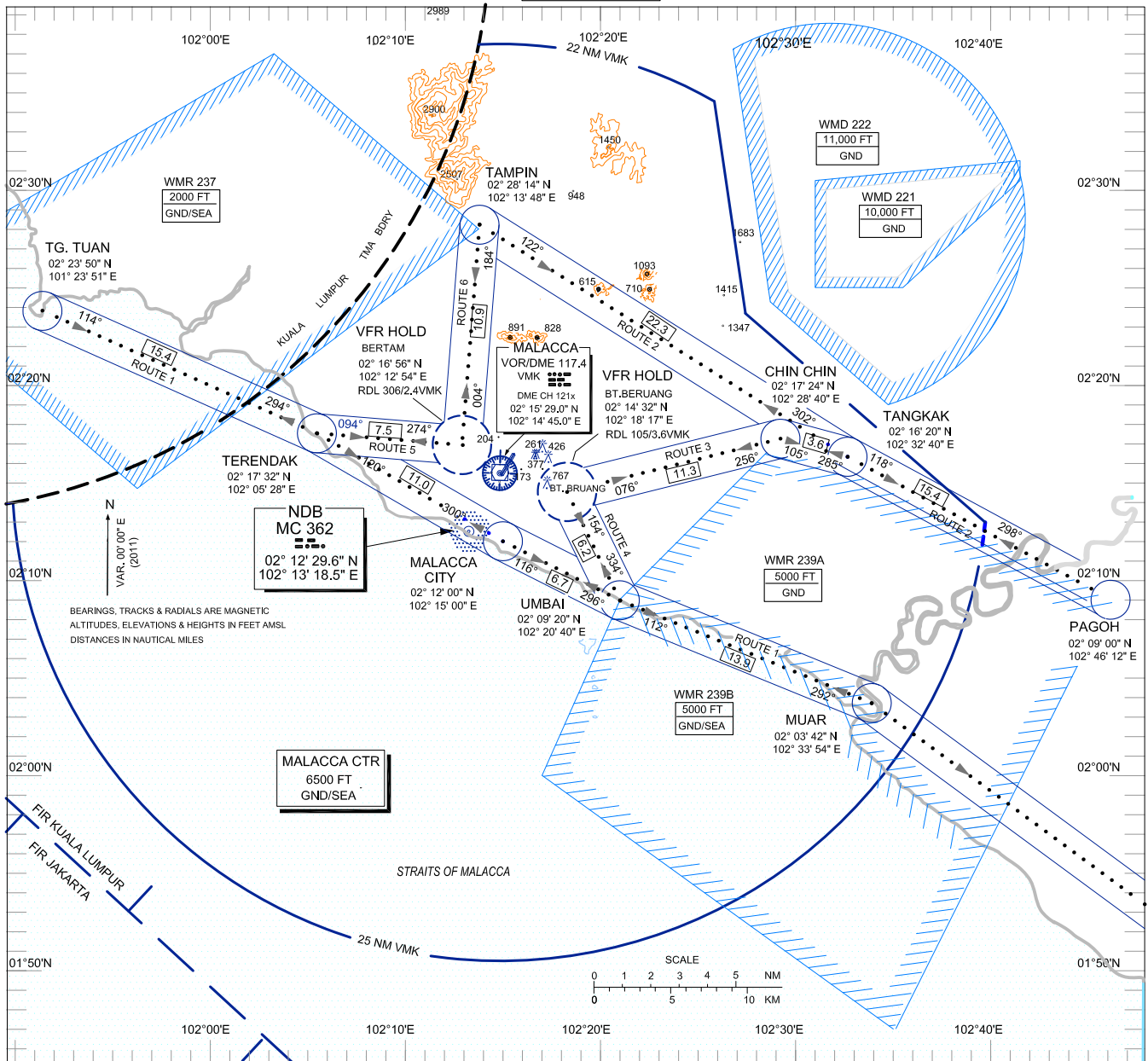
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**VISUAL  
CHART - ICAO**

AD ELEV 40 FT  
HEIGHTS RELATED TO  
AD ELEV

TWR - 118.00  
GND - 121.60  
ATIS - 127.45

**MALACCA / MALACCA  
VFR ROUTES**



- ROUTE 1 :** FROM TG. TUAN ALT NOT ABOVE 2000 FT - TERENDAK - MALACCA CITY - UMBAI - MUAR  
(ACFT TO FLY NOT BELOW 1000 FT AND REMAIN CLEAR OF PETRONAS REFINERY & TERENDAK ARMY CAMP)
- ROUTE 2 :** FROM TAMPIN-ALT NOT ABOVE 2000 FT EAST OF NORTH-SOUTH EXPRESSWAY-TANGKAK - PAGOH
- ROUTE 3 :** FROM TANGKAK ALT NOT ABOVE 2000 FT - CHIN CHIN - BT. BERUANG VFR HOLD
- ROUTE 4 :** FROM UMBAI ALT NOT ABOVE 2000 FT - BT. BERUANG VFR HOLD
- ROUTE 5 :** FROM TERENDAK ALT NOT ABOVE 2000 FT - BERTAM VFR HOLD  
(ACFT TO FLY NOT BELOW 1000 FT AND REMAIN CLEAR OF TERENDAK ARMY CAMP)
- ROUTE 6 :** FROM TAMPIN ALT NOT ABOVE 2000 FT - BERTAM VFR HOLD

NOTE 1: BT. BERUANG HOLD LOCATED EAST OF MALACCA WATER CITY RESORT  
NOTE 2: BERTAM HOLD LOCATED WEST OF BERTAM HULU FLYOVER  
NOTE 3: WIDTH OF VFR ROUTE = 2 NM

## 11. VFR ROUTE SYSTEM - TAWAU CONTROL ZONE

### 11.1 VFR Routes details are as follows:

VFR ROUTE DESIGNATION	ROUTINGS
Route 1	Tass Andrassy - Old Airport - Sebatik Island.
Route 2	Old Airport - Kalabakan.
Route 3	Balung - Kawa Hill - Baturong - Danum.
Route 4	Balung - Junction (49KM) - Kg. Aman - Tg. Batai.
Route 5	Saddle Hill - Nagos - Semporna - Gaya Island.
Route 6	Saddle Hill - Sipadan Island.

### 11.2 Geographical reporting points used for VFR routes as follows:

Geographical Position	Coordinates	
	Lat	Long
Tass Andrassy	041917N	1180117E
Old Airport	041601N	1175312E
Sebatik Island	041323N	1174650E
Kalabakan	042356N	1172942E
Balung	042152N	1180740E
Kawa Hill	042338N	1180513E
Mt. Pyramid	042824N	1180409E
Baturong	044158N	1180009E
Danum	045107N	1174711E
Junction (49KM)	042536N	1181042E
Kg.Aman	043613N	1181123E
Tg. Batai	045019N	1181004E
Saddle Hill	041756N	1181108E
Nagos	042052N	1182335E
Semporna	042659N	1183547E
Gaya Island	043720N	1184425E
Sipadan Island	040826N	1183838E

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# TAWAU CONTROL ZONE VISUAL FLIGHT RULES (VFR) ROUTES

