AIP MALAYSIA WMSA AD 2 - 21

## WMSA AD 2.24 CHARTS RELATED TO SUBANG SULTAN ABDUL AZIZ SHAH AIRPORT

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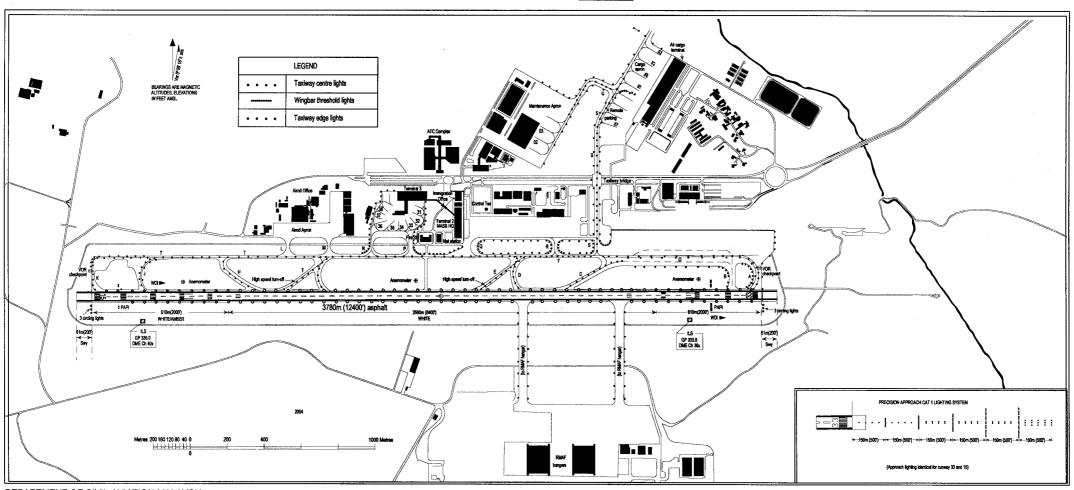
**AERODROME CHART - ICAO** 

ARP: 03 07 52N 101 32 53 E

**AERODROME ELEV 27m** 

ATIS: 127.6 APP: 125.1 SMC: 121.9 TWR: 118.2

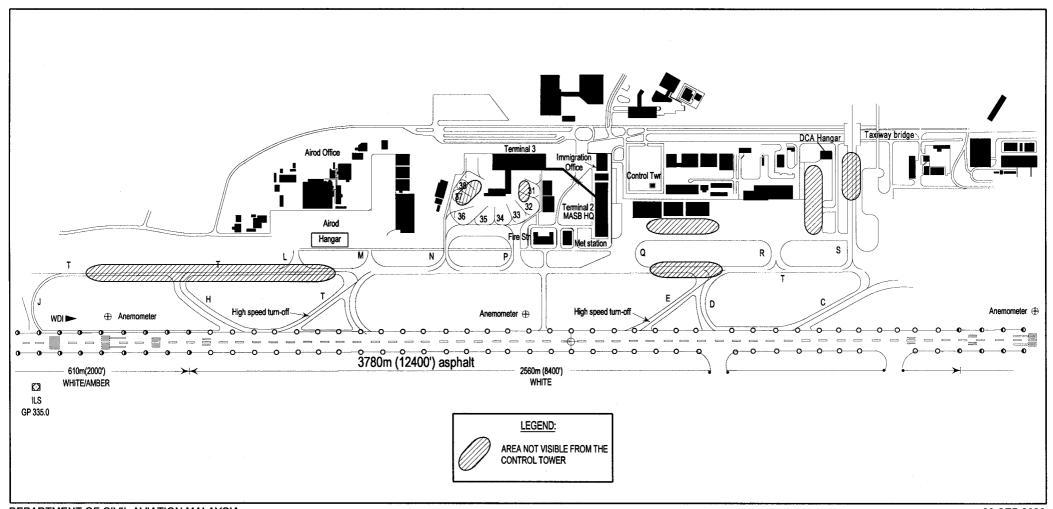
### SULTAN ABDUL AZIZ SHAH AIRPORT PENINSULAR MALAYSIA



DEPARTMENT OF CIVIL AVIATION MALAYSIA

18 MAR 2004 AIP AMDT 1/2004

# MOVEMENT AREAS NOT VISIBLE FROM AIR TRAFFIC CONTROL TOWER



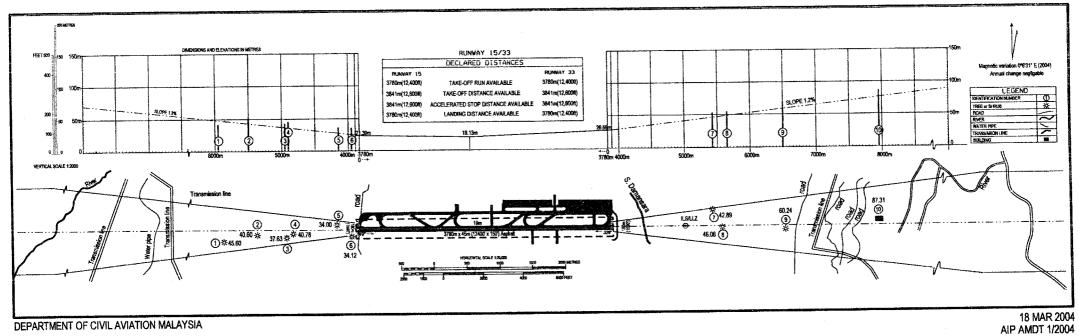
AIP MALAYSIA WMSA AD 2 - 25.1

#### **AIRCRAFT PARKING / DOCKING - STAND POSITION**

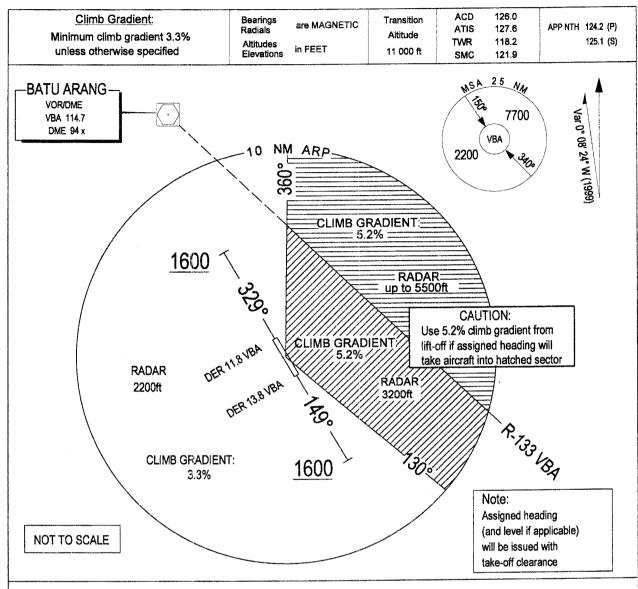
	GEO POSIT	ION (WGS 84)	TYPE OF
AICRAFT STAND NUMBER	LAT(N)	LONG(E)	AIRCRAFT
15	030729.34	1013342.82	B747 And Below
16	030729.34	1013342.82	B747 And Below
17	030729.34	1013342.82	B747 And Below
18	030729.34	1013342.82	B747 And Below
19	030735.33	1013348.82	B747 And Below
20	030735.33	1013348.82	B747 And Below
21	030735.33	1013354.82	B747 And Below
31	030759.33	1013412.82	BE20 And Below
32	030759.33	1013406.82	B737 And Below
33	030759.33	1013406.82	B737 And Below
34	030759.33	1013406.82	B737 And Below
35	030759.33	1013406.82	A330 And Below
36	030805.33	1013406.82	A330 And below
37	030805.33	1013406.82	B737 And Below
38	030805.33	1013406.82	B737 And Below

### **AERODROME OBSTRUCTION CHART - ICAO** TYPE A (OPERATING LIMITATIONS)

#### SULTAN ABDUL AZIZ SHAH/SUBANG PENINSULAR MALAYSIA



#### STANDARD RADAR DEPARTURES



### STANDARD RADAR DEPARTURES SUBANG RADAR ONE DEPARTURE

#### **RWY 33**

- Track 329° until beyond DER (11.8 DME VBA)
- At 1600ft turn to assigned heading
- · Contact Approach airborne

Advise: direction of turn & assigned heading level passing to nearest 100ft assigned level

#### **RWY 15**

- Track 149° until beyond DER (13.8 DME VBA)
- At 1600ft turn to assigned heading
- Contact Approach airborne

Advise: direction of turn & assigned heading level passing to nearest 100ft assigned level

### Rate of Climb in ft/min

Ground Speed (	(kts)	120	130	140	150	160	170	180	190	200	220	240	260	280	300
Credient	3.3%	401	434	468	502	535	569	602	635	669	736	803	869	936	1003
Gradient	5.2%	632	685	738	790	843	896	948	1001	1054	1159	1264	1370	1475	1580

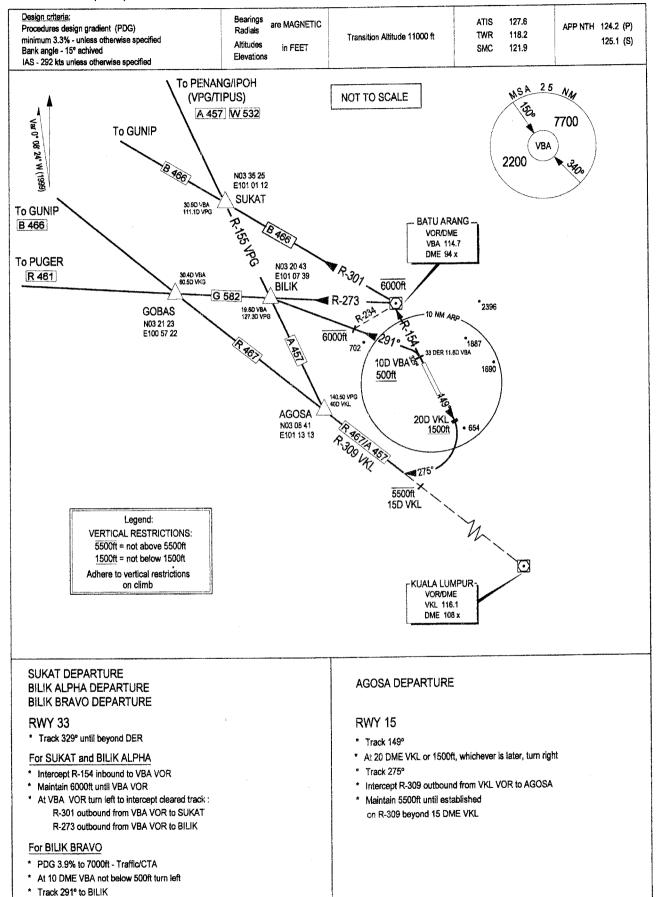
#### **COMMUNICATIONS FAILURE:**

Immediately squawk 7600

Maintain assigned heading - climb to MSA or last assigned level if higher
Maintain MSA or assigned level, as applicable, for 2 minutes
Then climb to flight planned level and intercept flight planned track (as amended by ATC, if applicable)

## STANDARD DEPARTURE CHART INSTRUMENT (SID)-ICAO

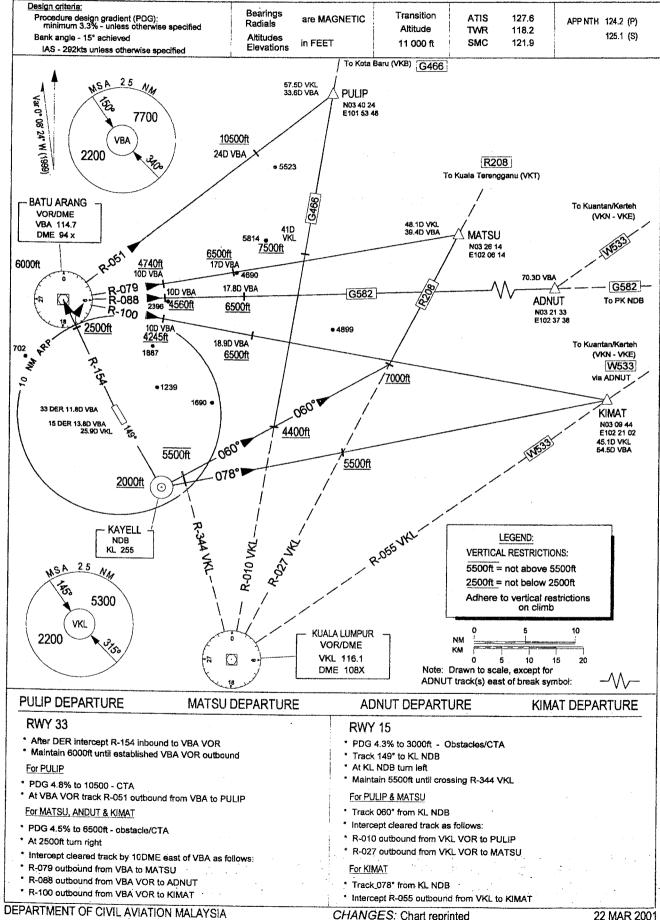
# SUBANG / SULTAN ABDUL AZIZ SHAH DEPARTURES NORTH



Maintain 6000ft until crossing R-234 VBA VOR

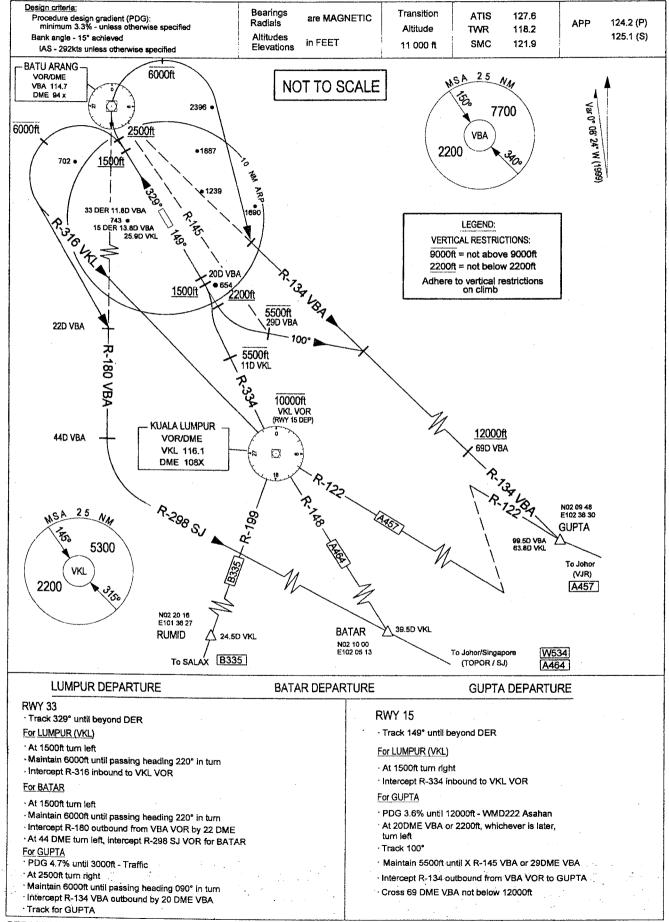
### STANDARD DEPARTURE CHART INSTRUMENT (SID) - ICAO

### SUBANG / SULTAN ABDUL AZIZ SHAH **DEPARTURES NORTH EAST**



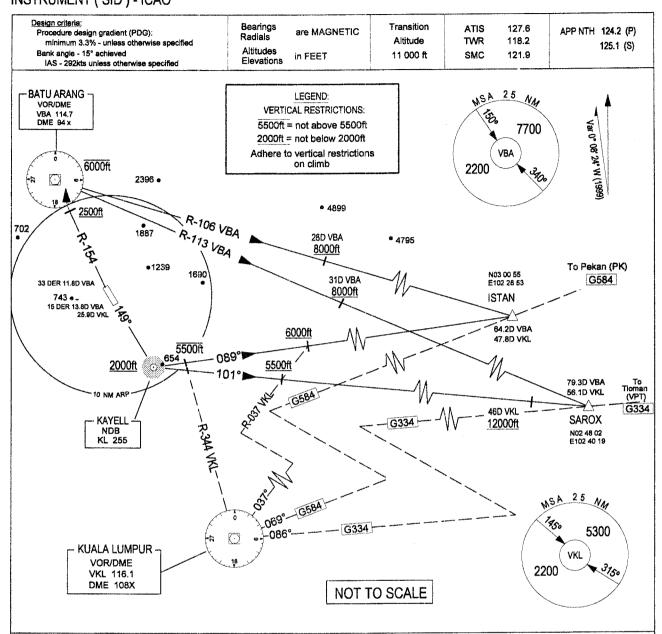
## STANDARD DEPARTURE CHART INSTRUMENT ( SID ) - ICAO

## SUBANG / SULTAN ABDUL AZIZ SHAH DEPARTURES SOUTH



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

## SUBANG / SULTAN ABDUL AZIZ SHAH DEPARTURES SOUTH EAST



#### ISTAN DEPARTURE

#### **RWY 33**

- · PDG 4.5% to 5000ft Obstacles/Traffic
- · After DER intercept R-154 inbound to VBA VOR
- · At 2500ft turn right
- Maintain 6000ft until established on VBA VOR track outbound

#### For ISTAN

Intercept R-106 outbound from VBA VOR to ISTAN

#### For SAROX

- Intercept R-113 outbound from VBA VOR to SAROX

#### SAROX DEPARTURE

#### **RWY 15**

- PDG 4.3% to 3000ft Traffic
- · After DER track 149° to KL NDB
- · At KL NDB turn left
- Maintain 5500ft until crossing R-344 VKL VOR

#### For ISTAN

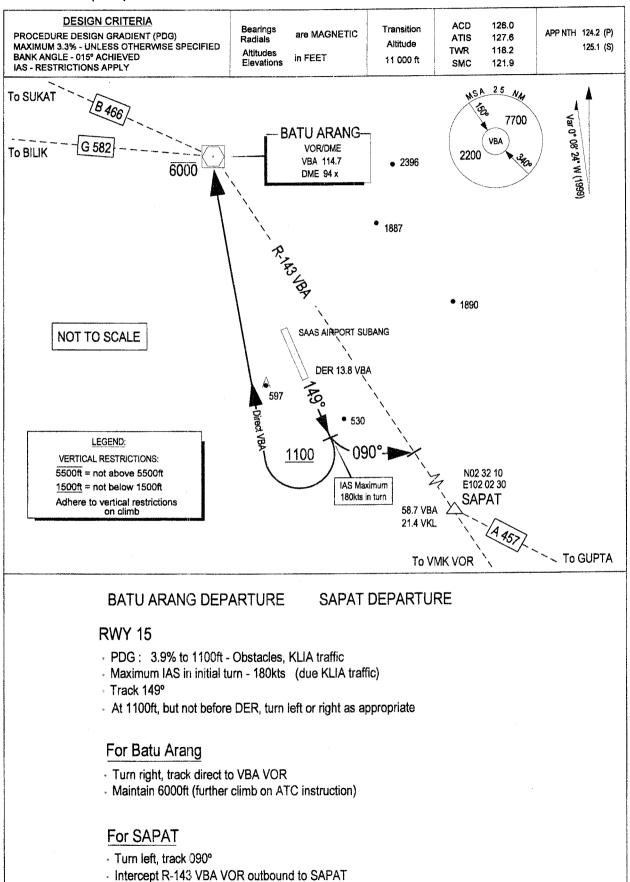
- Track 089° from KL NDB to ISTAN

#### For SAROX

. Track 101° from KL NDB to SAROX

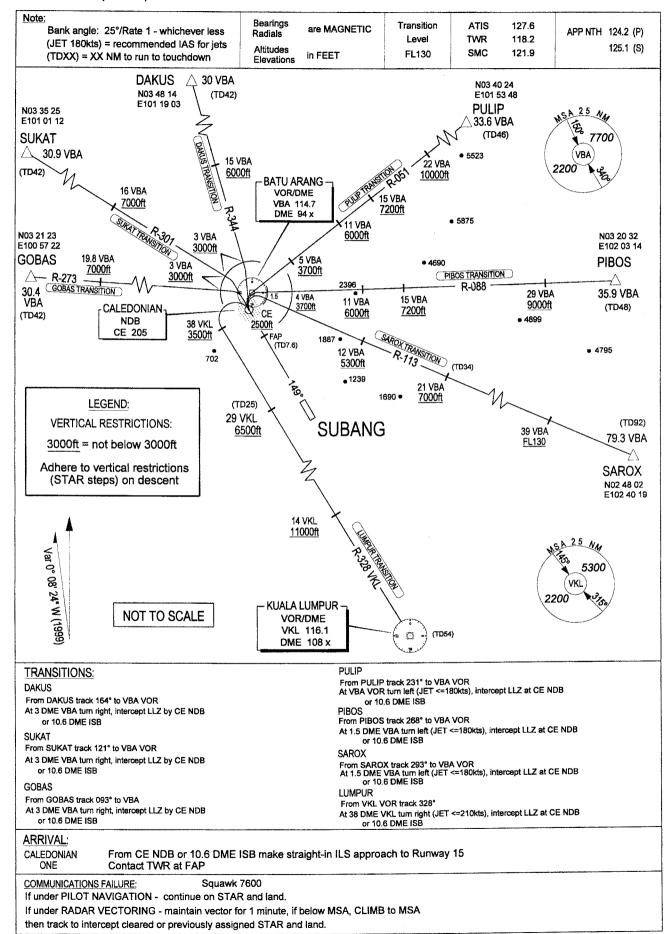
## STANDARD DEPARTURE CHART INSTRUMENT (SID) - ICAO

## SUBANG / SULTAN ABDUL AZIZ SHAH DEPARTURES RWY 15



## STANDARD ARRIVAL CHART INSTRUMENT (STAR) - ICAO

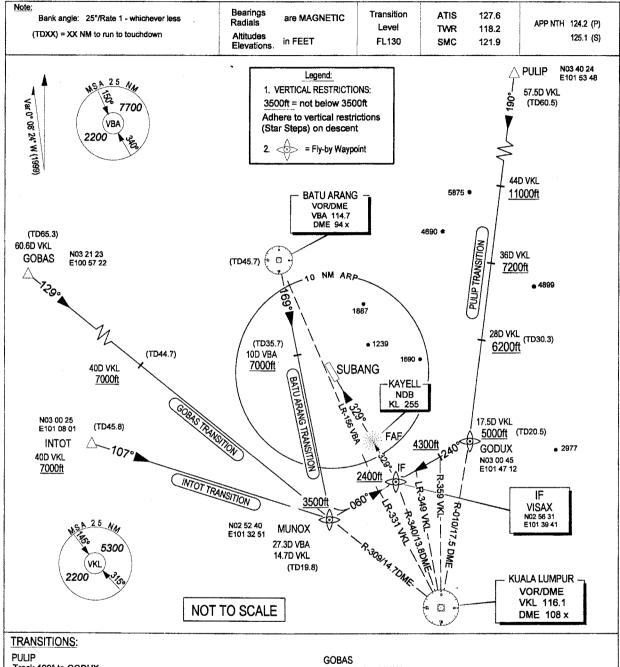
## SUBANG / SULTAN ABDUL AZIZ SHAH



### STANDARD ARRIVAL CHART INSTRUMENT (STAR) - ICAO

### SUBANG / SULTAN ABDUL AZIZ SHAH KAYELL ONE ARRIVAL

(1 of 3)



Track 190° to GODUX

At GODUX turn right, track 240° to VISAX RNAV - at VISAX turn right, intercept localizer NON-RNAV - crossing LR-349 VKL turn right, intercept localizer

**BATU ARANG** 

Track 169° to MUNOX
At MUNOX turn left, track 060° to VISAX
RNAV - at VISAX turn left, intercept localizer
NON-RNAV - crossing LR-156 VBA turn left, intercept localizer

Track 129° to MUNOX
At MUNOX turn left, track 060° to VISAX
RNAV - at VISAX turn left, intercept localizer
NON-RNAV - crossing LR-331 VKL turn left, intercept localizer

(RNAV only)

Track 107° to MUNOX
At MUNOX turn left, track 060° to VISAX
At VISAX turn left, intercept localizer

#### ARRIVAL:

KAYELL ONE

Make straight-in ILS approach to Runway 33

Contact TWR at FAF or KAYELL

Squawk 7600

If under PILOT NAVIGATION - continue on STAR and land.

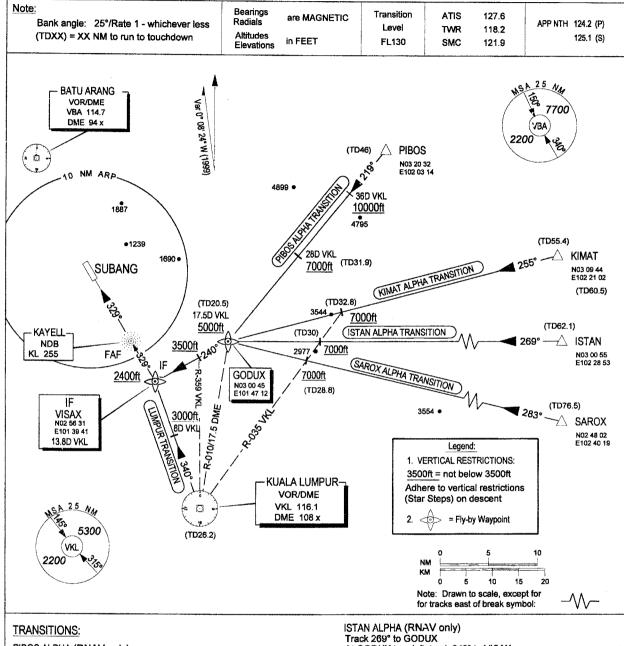
If under RADAR VECTORING - maintain vector for 1 minute, if below MSA, CLIMB to MSA

then track to intercept cleared or previously assigned STAR and land.

### STANDARD ARRIVAL CHART INSTRUMENT (STAR) - ICAO

### SUBANG / SULTAN ABDUL AZIZ SHAH KAYELL ONE ARRIVAL

(2 of 3)



PIBOS ALPHA (RNAV only) Track 219° to GODUX At GODUX turn right, track 240° to VISAX At VISAX turn right, intercept localizer

KIMAT ALPHA (RNAV only) Track 255° to GODUX At GODUX turn left, track 240° to VISAX At VISAX turn right, intercept localizer Track 269° to GODUX At GODUX turn left, track 240° to VISAX At VISAX turn right, intercept localizer

SAROX ALPHA (RINAV only) Track 283° to GODUX At GODUX turn left, track 240° to VISAX At VISAX turn right, intercept localizer

**LUMPUR** From VKL VOR track 340° intercept localizer at VISAX

#### ARRIVAL:

KAYELL ONE

Make straight-in ILS approach to Runway 33

Contact TWR at FAF or KAYELL

COMMUNICATIONS FAILURE:

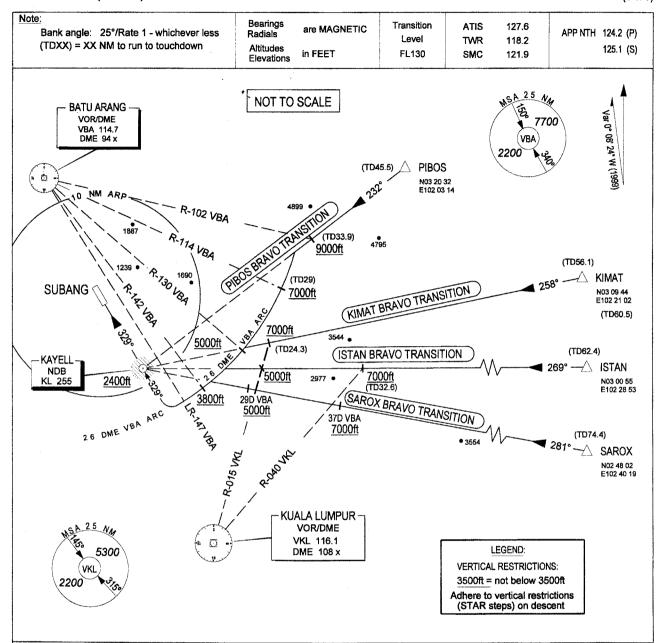
Squawk 7600 If under PILOT NAVIGATION - continue on STAR and land.

If under RADAR VECTORING - maintain vector for 1 minute, if below MSA, CLIMB to MSA

then track to intercept cleared or previously assigned STAR and land.

## STANDARD ARRIVAL CHART INSTRUMENT (STAR) - ICAO

#### SUBANG / SULTAN ABDUL AZIZ SHAH KAYELL ONE ARRIVAL (3 of 3)



#### TRANSITIONS:

PIBOS BRAVO
Track 232° to KL NDB
Intercept 26 DME VBA arc
Crossing LR-147 VBA turn right, intercept localizer
(Vertical Restrictions at 9000ft, 7000ft, 5000ft, 3800ft)

KIMAT BRAVO
Track 258° to KL NDB
Intercept 26 DME VBA arc
Crossing LR-147 VBA turn right, intercept localizer
(Vertical Restrictions at 7000ft, 5000ft, 3800ft)

ISTAN BRAVO
Track 269° to KL NDB
Intercept 26 DME VBA arc
Crossing LR-147 VBA turn right, intercept localizer
(Vertical Restrictions at 7000ft, 5000ft, 3800ft)

SAROX BRAVO
Track 281° to KL NDB
Intercept 26 DME VBA arc
Crossing LR-147 VBA turn right, intercept localizer
(Vertical Restrictions at 7000ft, 5000ft, 3800ft)

#### ARRIVAL:

KAYELL Make straight-in ILS approach to Runway 33
ONE Contact TWR at FAF or KAYELL

**COMMUNICATIONS FAILURE:** 

Squawk 7600

if under PILOT NAVIGATION - continue on STAR and land.

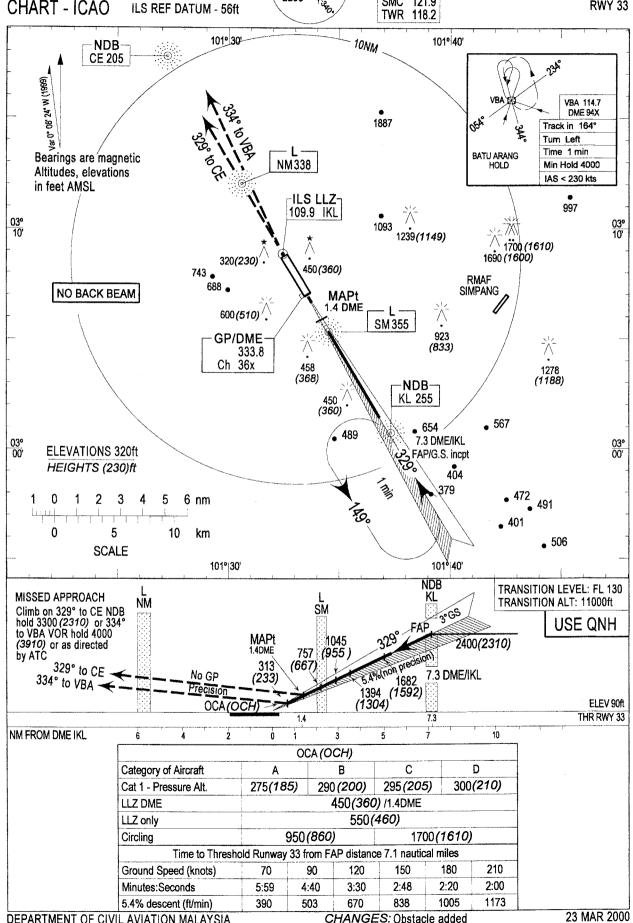
If under RADAR VECTORING - maintain vector for 1 minute, if below MSA, CLIMB to MSA, then track to intercept cleared or previously assigned STAR and land.

AD ELEV 90ft HEIGHTS RELATED TO THR RWY 33 - ELEV 90ft



SUBANG/SULTAN ABDUL AZIZ SHAH ATIS 127.6 APP 125.1 SMC 121.9

PENINSULAR MALAYSIA ILS **RWY 33** 



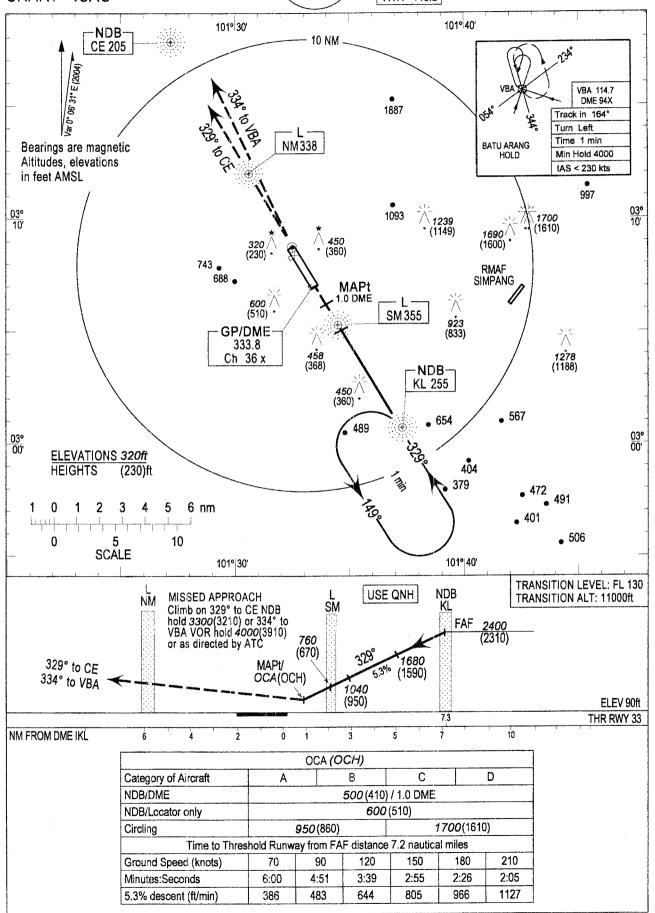
AD ELEV 90ft HEIGHTS RELATED TO THR RWY 33 - ELEV 90ft



SUBANG/SULTAN ABDUL AZIZ SHAH **ATIS** 127.6 APP 125.1 SMC 121.9 TWR 118.2

PENINSULAR MALAYSIA NDB/DME (NDB/LOCATOR)

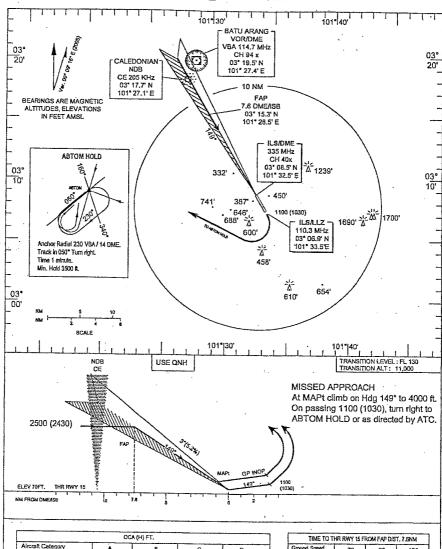
**RWY 33** 



AD. ELEV. 90 FT HEIGHT RELATED TO THR RWY 15 ELEV 70 FT ILS REF DATUM 52 FT



TWR - 118.2 SMC - 121.9 ATIS - 127.6 APP - 125.1 SUBANG / SULTAN ABDUL AZIZ SHAH ILS RWY 15



			00	A (H) FT.		
	Aircraft Cate	gory	A	В	C	Γρ
	ILS / DME	Cat 1	270 (200)	276 (206)	284 (214)	295 (225)
	LLZ/DME	GP In Op		500 (430)	/ 1.35 DME	.1
1	Circling		800 (730)	1050 (980)	1240 (1170)	1700 (1630)

ALTITUE	E VS DME	DISTANCE	TO THR R	WY 15		
7.6	6	5	4	3	2	1.35
2500	2000	1670	1345	1030	710	500
	7.6	7.6 6	7.6 8 5	7.6 6 5 4		7.8 6 5 4 3 2

TIME TO TH	IR RWY 15 FI	ROM FAP DIS	T. 7.6NM
Ground Speed	70	90	120
Min : Sec	6:31	5:04	3:48
3" Desc. (ft/min)	370	480	640

Ground Speed	150	180	210
Min: Sec	3:02	2:32	2:10
3° Desc. (N/min)	800	1000	1120

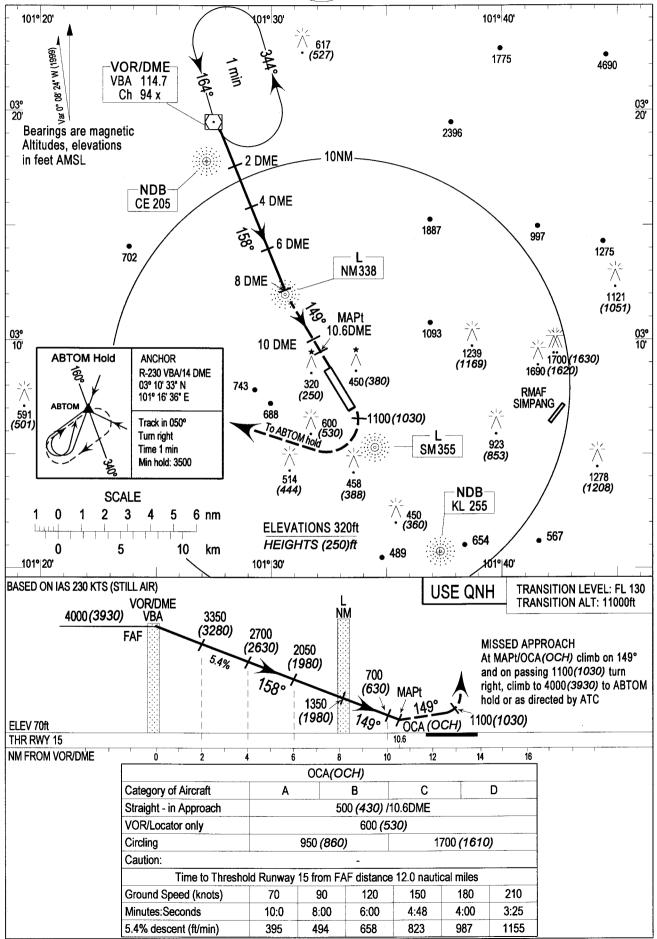
INSTRUMENT **APPROACH** CHART - ICAO 101° 20'

AD ELEV 90ft **HEIGHTS RELATED TO** THR RWY 15 - ELEV 70ft



**ATIS** 127.6 APP 125.1 SMC 121.9 TWR 118.2

SUBANG/SULTAN ABDULAZIZ SHAH PENINSULAR MALAYSIA VOR/DME/LOCATOR. VOR/LOCATOR



AD ELEV 90ft
HEIGHTS RELATED TO
THR RWY 15 - ELEV 70ft



SUBANG/SULTAN ABDUL AZIZ SHAH
PENINSULAR MALAYSIA

ATIS 127.6 APP 125.1 SMC 121.9

NDB/DME, NDB/L0CATOR RWY 15

