

STANDARD DEPARTURE CHART  
INSTRUMENT (SID) - ICAO

PENANG/PENANG  
INTERNATIONAL AIRPORT (WMKP)  
RWY 22

TRANSITION ALTITUDE  
11000 FT

OMBOK 1D BETNU 1D KABOT 1D MADUM 1D  
LUNTU 1D BOGUK 1D UDIKO 1D

TABULAR DESCRIPTION

| INITIAL CLIMB PROCEDURE                                                                                                                                                          | DESIGNATOR    | SID DESCRIPTION                                                                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------------------------------------------------------------------------------------------|
| AFTER TAKE-OFF TRACK 222°,<br>AT 2200FT OR ABOVE TURN RIGHT<br>THEN FOLLOW THE ASSIGNED SID                                                                                      | OMBOK 1 DELTA | TRACK 005° TO INTERCEPT RDL 335 VPG VOR OUTBOUND TO OMBOK,<br>THEN CONTINUE ON AIRWAY W525.  |
|                                                                                                                                                                                  | LUNTU 1 DELTA | TRACK 039° TO INTERCEPT RDL 009 VPG VOR OUTBOUND TO LUNTU,<br>THEN CONTINUE ON AIRWAY A457.  |
| AFTER TAKE-OFF TRACK 222°,<br>AT 1200FT OR ABOVE TURN LEFT<br>THEN FOLLOW THE ASSIGNED SID<br><br>MINIMUM CLIMB GRADIENT (PDG) 5.0%<br>DUE TO OBSTACLE UNTIL PASSING<br>7000 FT. | BETNU 1 DELTA | TRACK 050° TO INTERCEPT RDL 080° VPG VOR OUTBOUND TO BETNU,<br>THEN CONTINUE ON AIRWAY W546. |
|                                                                                                                                                                                  | UDIKO 1 DELTA | TRACK 160° TO INTERCEPT RDL 190° VPG VOR OUTBOUND TO UDIKO.<br>THEN CONTINUE ON AIRWAY Y508. |
| AFTER TAKE-OFF TRACK 222°,<br>AT 1200FT OR ABOVE TURN LEFT<br>THEN FOLLOW THE ASSIGNED SID.                                                                                      | BOGUK 1 DELTA | TRACK 090° TO INTERCEPT RDL 120° VPG VOR OUNBOUND TO BOGUK,<br>THEN CONTINUE ON AIRWAY Y507. |
|                                                                                                                                                                                  | KABOT 1 DELTA | TRACK 100° TO INTERCEPT RDL 130° VPG VOR OUTBOUND TO KABOT,<br>THEN CONTINUE ON AIRWAY W530. |
| AFTER TAKE-OFF TRACK 222°,<br>THEN FOLLOW THE ASSIGNED SID<br><br>MINIMUM CLIMB GRADIENT (PDG) 5.0%<br>UNTIL PASSING 7000FT.                                                     | MADUM 1 DELTA | INTERCEPT RDL 222° VPG TO MADUM,<br>THEN CONTINUE ON AIRWAY G468.                            |

WAYPOINT LIST

| FIX/POINT/NAVAID |                       | COORDINATES                    |
|------------------|-----------------------|--------------------------------|
| VPG              | 116.2 MHZ / CH109X    | 05°16'45.80" N 100°15'38.80" E |
| BETNU            | RDL 080 / 48.4 NM VPG | 05°25'38.33" N 101°03'18.60" E |
| BOGUK            | RDL 120 / 38.2 NM VPG | 04°57'45.35" N 100°48'51.82" E |
| KABOT            | RDL 130 / 35.0 NM VPG | 04°54'04.60" N 100°42'26.85" E |
| LUNTU            | RDL 009 / 25.0 NM VPG | 05°41'35.88" N 100°19'19.92" E |
| MADUM            | RDL 222 / 25.4 NM VAS | 04°58'09.12" N 099°58'14.16" E |
| OMBOK            | RDL 335 / 30.0 NM VPG | 05°43'56.58" N 100°02'37.98" E |
| UDIKO            | RDL 190 / 23.4 NM VPG | 04°53'31.90" N 100°11'47.10" E |

CHANGES: CHANGE COORDINATE FOR BETNU & MADUM.