

FLIGHT OPERATION – IVAO INDONESIA DIVISION



SULTAN HASANUDDIN INTERNATIONAL QUICKVIEW MAKASSAR, INDONESIA

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Location : Makassar, South Sulawesi
Airport Elevation : 47 ft / 14 m
IATA Code : UPG
ICAO Code : WAAA

Transition-Level Table

Transition Altitude (TA) : 11000 ft
Transition-Level (TL) : FL130

DEPARTURE FOR RWY 03 & 21

SID	RWY 03	RWY 21
EMONA	1C	1B
ENDOG	1C	1B
GAMAL	1C	1B
GURNI	1C	1B
KANIP	1C	1B
KENDO	1C	1B
KEVOK	1C	1B
LIPOT	1C	1B
MILAT	1C	1B
NABAT	1C	1B
NETTO	1C	1B
OVINA	1C	1B
RINTO	1C	1B
RUDAL	1C	1B

DEPARTURE FOR RWY 31

TRANSITION WAYPOINT	JOIN AIRWAYS	SID
GAMAL	W37	HASAN1 / HASAN4
OVINA	W52	HASAN1 / HASAN2
ENDOG	W32	HASAN1 / HASAN2
LIPOT	A450/W41	HASAN1 / HASAN2
KANIP	W32	HASAN1
MILAT	W54/W41	HASAN2
NABAT	W53	HASAN2
RINTO	W37	HASAN2
NETTO	W35	HASAN2

ARRIVAL RWY 03 & 21

STAR	RWY 03	RWY 21	TRANSITION
EMONA	1C	1D	EMONA
ENDOG	1C	1D	ENDOG
GAMAL	1C	1D	GAMAL
GURNI	1C	1D	GURNI
KANIP	1C	1D	KANIP
KENDO	1C	1D	KENDO
KEVOK	1C	1D	KEVOK
LIPOT	1C	1D	LIPOT
MILAT	1C	1D	MILAT
NABAT	1C	1D	NABAT
NETTO	1C	1D	NETTO
OVINA	1C	1D	OVINA
RINTO	1C	1D	RINTO
RUDAL	1C	1D	RUDAL

ARRIVAL RWY 13 & 31

TRANSITION WAYPOINT	ARRIVAL AIRWAYS	STAR
KANIP	W32	BRAVO
MILAT	W54/W41	CHARLIE
NABAT	W53	DELTA
RINTO	W37	DELTA
LIPOT	A450/W41	ECHO
OVINA	W52	ECHO
RUDAL	W51	ALFA

NAVAID FREQ

ILS RWY 03 (IJP)	110.50 CRS 028°
ILS RWY 21 (IMAK)	110.10 CRS 208°
ILS RWY 13 (IUPG)	111.30 CRS 125°
MKS VORDME (MAKASSAR)	114.7 Mhz
MAK VORDME (MAROS)	110.0 Mhz

SQUAWK CODE

DOMESTIC	4520 – 4577
INTERNATIONAL	5020 - 5037
VFR GENERAL	1200
EMERGENCY	77000
RADIO FAILURE	76000

ATC FREQUENCY

WAAZ_CTR	UJUNG PANDANG CONTROL CENTER	128.10
WAAA_APP	MAKASSAR APPROACH CONTROL (TCA)	120.60
WAAA_APP	MAKASSAR APPROACH CONTROL (SECONDARY)	119.40
WAAA_TWR	SULTAN HASANUDDIN TOWER	118.10
WAAA_GND	HASANUDDIN GROUND CONTROL	121.60

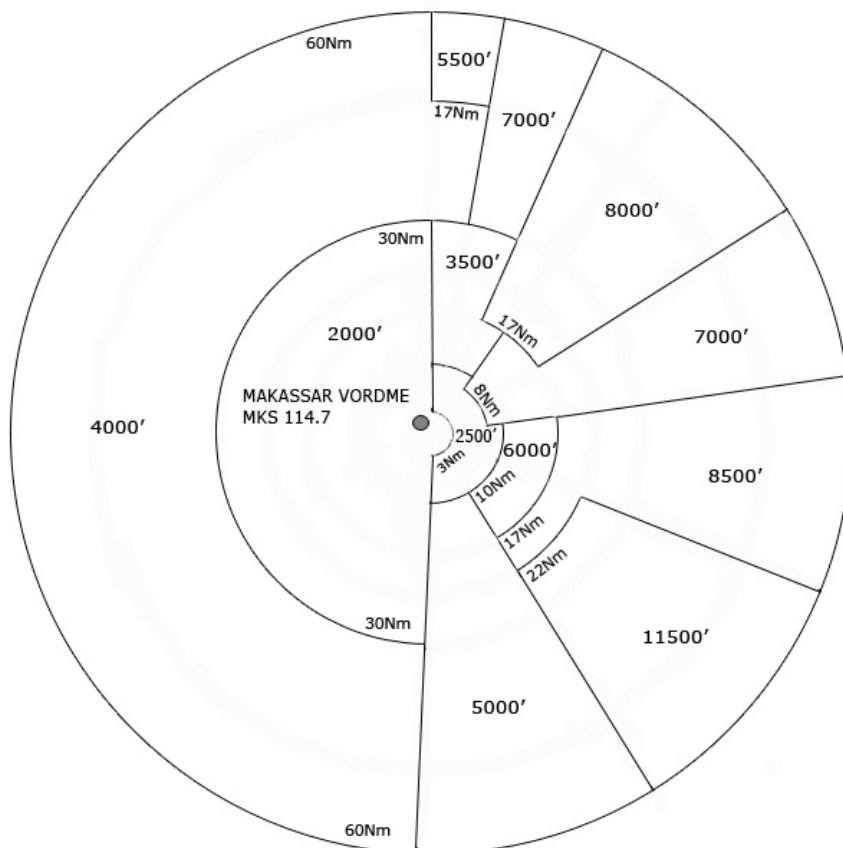
HOLDING FOR ARRIVAL RWY 03

HOLDING FIX	BADOK (D16.6 MAK)
INBOUND COURSE	028° (1 MIN)
R/L TURN	LEFT TURN
MIN/MAX ALT	MIN 4000 FT

HOLDING FOR ARRIVAL RWY 21

HOLDING FIX	COPAK (D16.4 MAK)
INBOUND COURSE	183° (1 MIN)
R/L TURN	RIGHT TURN
MIN/MAX ALT	MIN 5000 FT

MINIMUM RADAR VECTORING ALTITUDE



MSA MKS VOR

