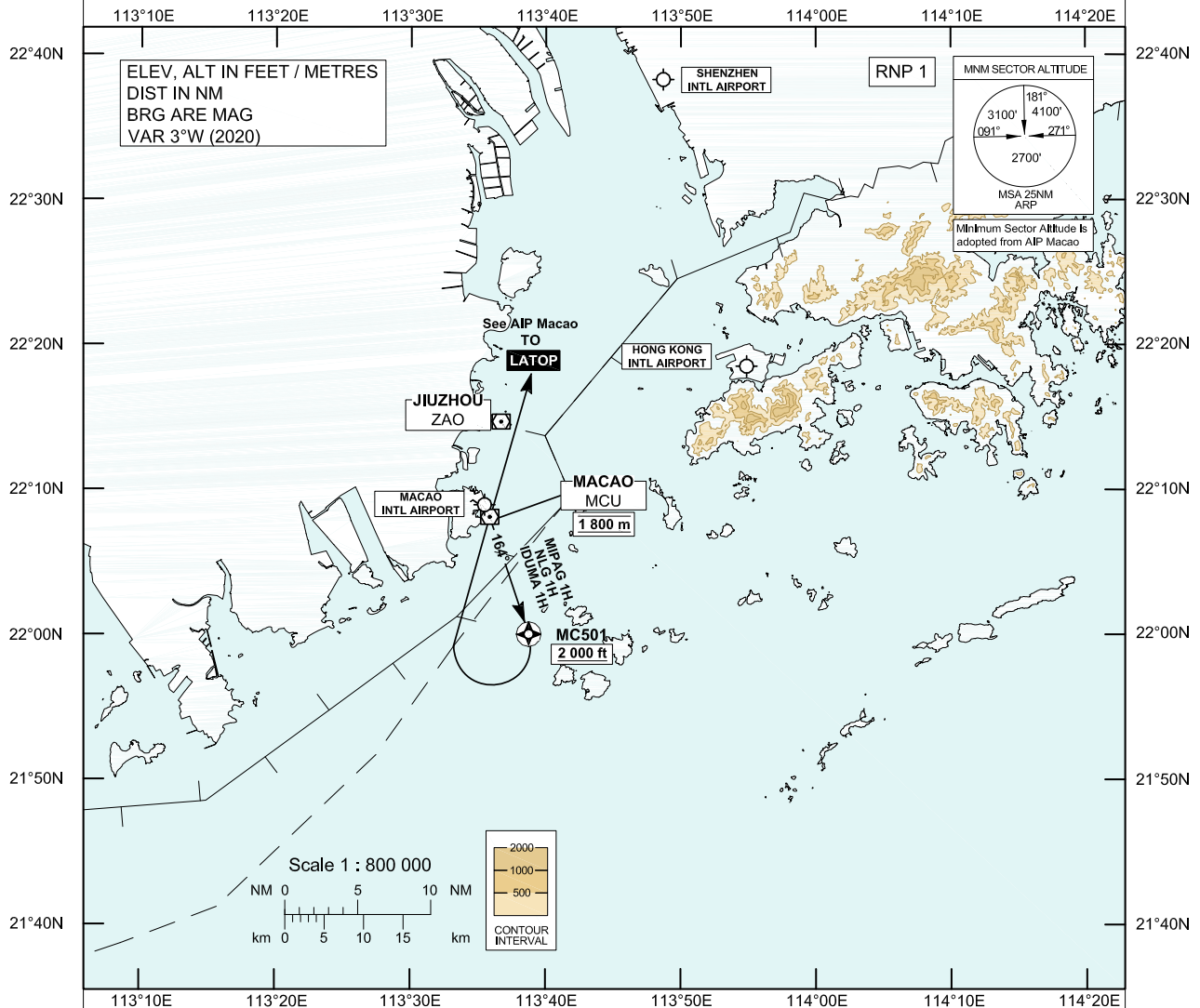STANDARD DEPARTURE CHART-
INSTRUMENT (SID) - ICAO

Transition Altitude 9 000 ft

HONG KONG RADAR   123.95

MACAO / Intl (VMMC)
RWY 16
RNAV (GNSS) **MIPAG 1H SID**
RNAV (GNSS) **NLG 1H SID**
RNAV (GNSS) **IDUMA 1H SID**

Aircraft shall comply with the Macao RWY 16 SID procedure as published in the AIP Macao.

ELEV, ALT IN FEET / METRES
DIST IN NM
BRG ARE MAG
VAR 3°W (2020)

RNP 1

MNM SECTOR ALTITUDE

181°
3100' 4100'
091°   271°
2700'
MSA 25NM ARP

Minimum Sector Altitude is adopted from AIP Macao

SHENZHEN INTL AIRPORT

See AIP Macao
TO
LATOP

JIUZHOU ZAO

HONG KONG INTL AIRPORT

MACAO INTL AIRPORT

MACAO MCU
1 800 m

MIPAG 1H,
NLG 1H,
IDUMA 1H

MC501
2 000 ft

164°

Scale 1 : 800 000

NM 0   5   10 NM

km 0   5   10   15   km

2000
1000
500
CONTOUR INTERVAL

MIPAG 1H / NLG 1H / IDUMA 1H SID RWY 16

Basic-RNP 1 Procedure
(Mandate procedure available to aircraft appropriately equipped and approved)

MC501 - MCU - LATOP

Continue in accordance with the SID procedure as published in the AIP Macao.

CLIMB REQUIREMENT
Cross MC501 at or above 2 000 ft (610 m), climbing to 1 800 m.
Cross MCU at 1 800 m. Expect further climb in accordance with procedure published in the AIP Macao.
These procedures require a minimum climb gradient of 3.8% until reaching 2 400 m for NLG 1H and leaving 2 400 m for MIPAG 1H and IDUMA 1H.

SPEED CONTROL
Maximum departure turning speed: 205 KIAS.

CHANGE: Update of IDUMA 1H SID.

AD 2-VMMC-SID-MIPAG-H_V03_250430km

FMC Database Coding Reference for Macao RNAV(GNSS) SIDs

Designator: NLG 1H RWY 16

Serial Number	Path Descriptor	Waypoint Identifier	Fly-over	Course /Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed (KIAS)	Navigation Specification
Aircraft shall comply with the Macao RWY 16 SID procedure as published in the AIP Macao										
	CF	MC501	Y	164 (161)	+3.0	-	-	+2000	-205	RNP 1
	DF	MCU	-	-	+3.0	-	R	@1800M	-205	RNP 1

Designator: IDUMA 1H RWY 16

Serial Number	Path Descriptor	Waypoint Identifier	Fly-over	Course /Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed (KIAS)	Navigation Specification
Aircraft shall comply with the Macao RWY 16 SID procedure as published in the AIP Macao										
	CF	MC501	Y	164 (161)	+3.0	-	-	+2000	-205	RNP 1
	DF	MCU	-	-	+3.0	-	R	@1800M	-205	RNP 1

Designator: MIPAG 1H RWY 16

Serial Number	Path Descriptor	Waypoint Identifier	Fly-over	Course /Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed (KIAS)	Navigation Specification
Aircraft shall comply with the Macao RWY 16 SID procedure as published in the AIP Macao										
	CF	MC501	Y	164 (161)	+3.0	-	-	+2000	-205	RNP 1
	DF	MCU	-	-	+3.0	-	R	@1800M	-205	RNP 1

WAYPOINT LIST

NLG 1H/IDUMA 1H/MIPAG 1H RWY 16	
Waypoint Identifier	**Coordinates (WGS84)**
MC501	22 00 03.00 N 113 38 45.76 E
MCU	22 08 08 N 113 35 52 E