

INSTRUMENT
APPROACH
CHART - ICAO

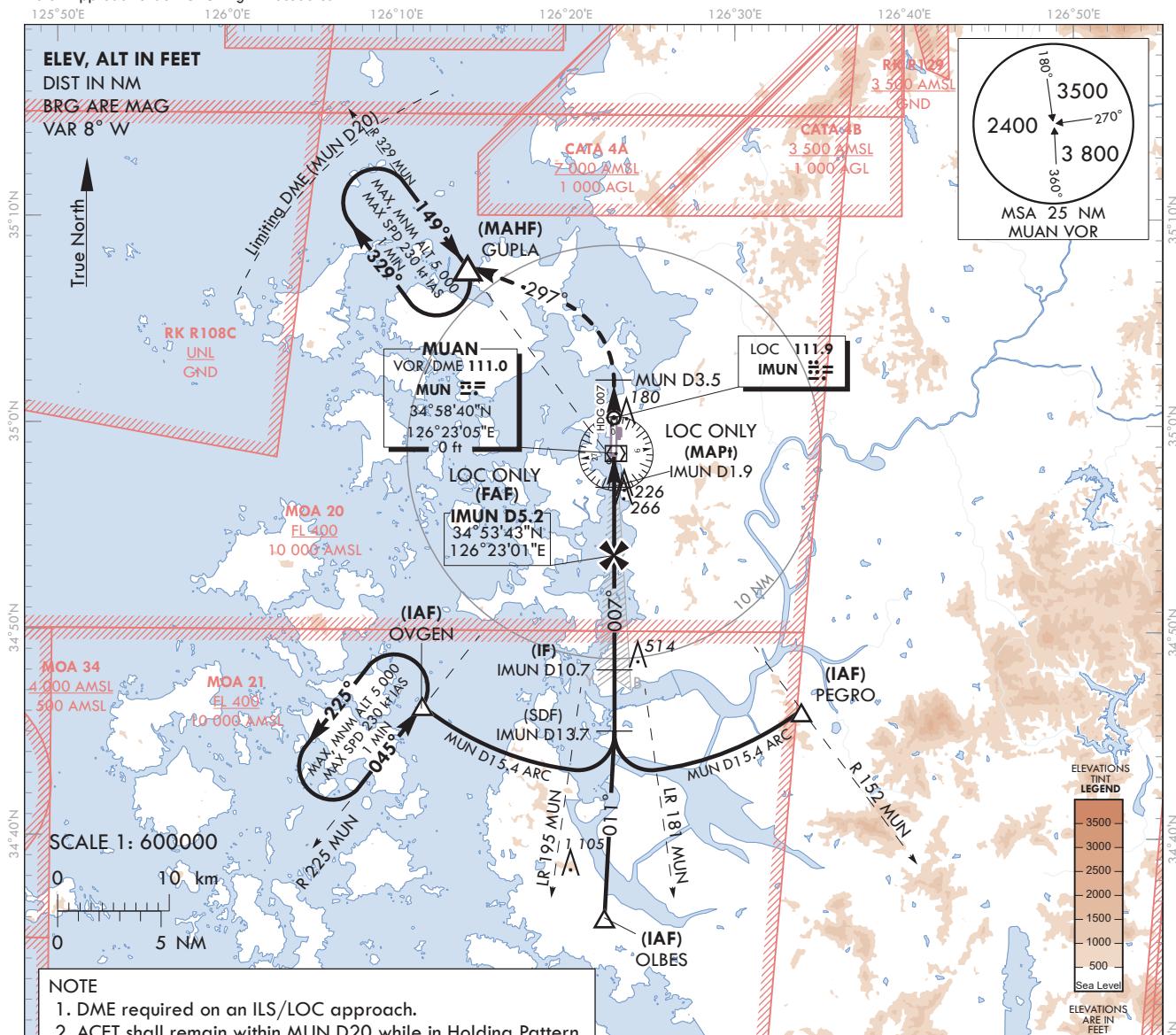
Note : Approach under ICAO Flight Procedures.

AERODROME ELEV 51 ft
HEIGHTS RELATED TO
THR RWY 01 - ELEV 32 ft

GWANGJU APP	120.475	130.0
	228.9	265.5
MUAN TWR	118.25	118.85

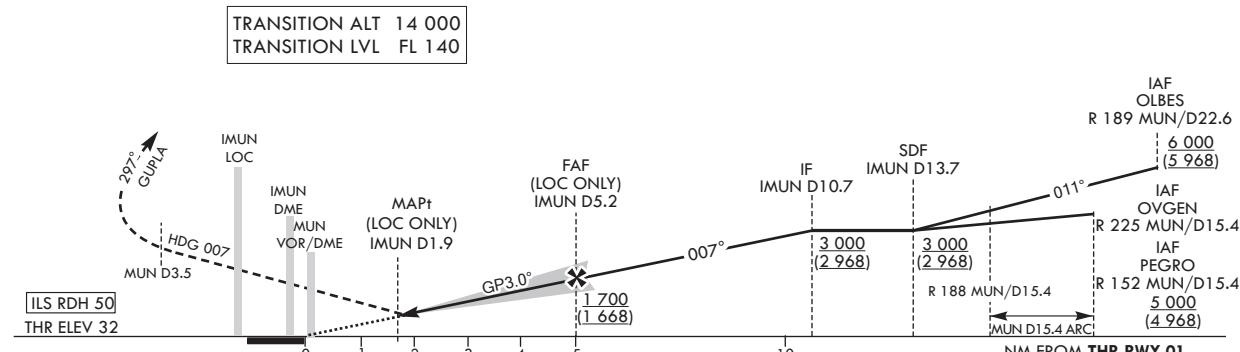
MUAN/Muan Intl(RKJB)

ILS Y or LOC Y RWY 01



MISSSED APPROACH

Climb on HDG 007° to MUN D3.5, then turn left HDG 297° to GUPLA and Hold at 5 000 ft.



CATEGORY		DA(DH)/MDA(MDH)	A	B	C	D	Knots	60	90	120	150	180					
STA	CAT-I	FULL	232 (200)		RVR 550 m, VIS 800 m		Rate of descent	V/V fpm		318							
		ALS INOP			1 200 m			478		637							
	LOC	FULL	660 (628)		2 600 m		* Timing Not authorized for defining MAPt.										
		ALS INOP			3 300 m		* Circling Not authorized.										

Change : Amended phrase(procedure → procedures) and Withdrawal of unnecessary symbols.

MUAN/Muan Intl(RKJB)
ILS Y or LOC Y RWY 01

AERONAUTICAL DATA TABULATION

ILS Y or LOC Y Approach to RWY 01 from OVGEM, OLBES or PEGRO			
Fix/point		Coordinates	
OVGEN(IAF)	R 225 MUN /15.4 NM MUN	34°46'22.2"N	126°11'47.9"E
OLBES(IAF)	R 189 MUN /22.5 NM MUN	34°36'08.1"N	126°22'32.0"E
PEGRO(IAF)	R 152 MUN /15.4 NM MUN	34°46'09.0"N	126°34'02.1"E
D13.7 IMUN(SDF)	BRG 7.10°/13.7 NM IMUN	34°45'11.5"N	126°23'04.1"E
D10.7 IMUN(IF)	BRG 7.10°/10.7 NM IMUN	34°48'10.9"N	126°23'03.3"E
D5.2 IMUN(FAF LOC ONLY)	BRG 7.10°/5.2 NM IMUN	34°53'42.6"N	126°23'00.5"E
D1.9 IMUN(MAPt LOC ONLY)	BRG 7.10°/1.9 NM IMUN	34°56'59.1"N	126°22'59.2"E
MUN VOR/DME		34°58'40.0"N	126°23'05.4"E
THR RWY 01	Final approach descent angle 3.04° (LOC ONLY)	34°58'43.64"N	126°22'58.45"E
IMUN DME		34°58'53.2"N	126°22'53.8"E
IMUN LOC		35°00'23.1"N	126°22'57.8"E
D3.5 MUN	HDG 007		-
GUPLA	HDG 297/11.5 NM MUN	35°07'37.8"N	126°14'18.1"E

INSTRUMENT
APPROACH
CHART - ICAO

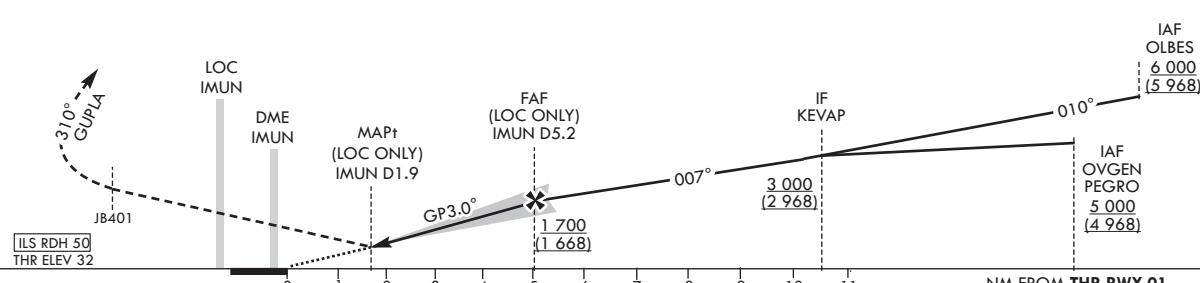
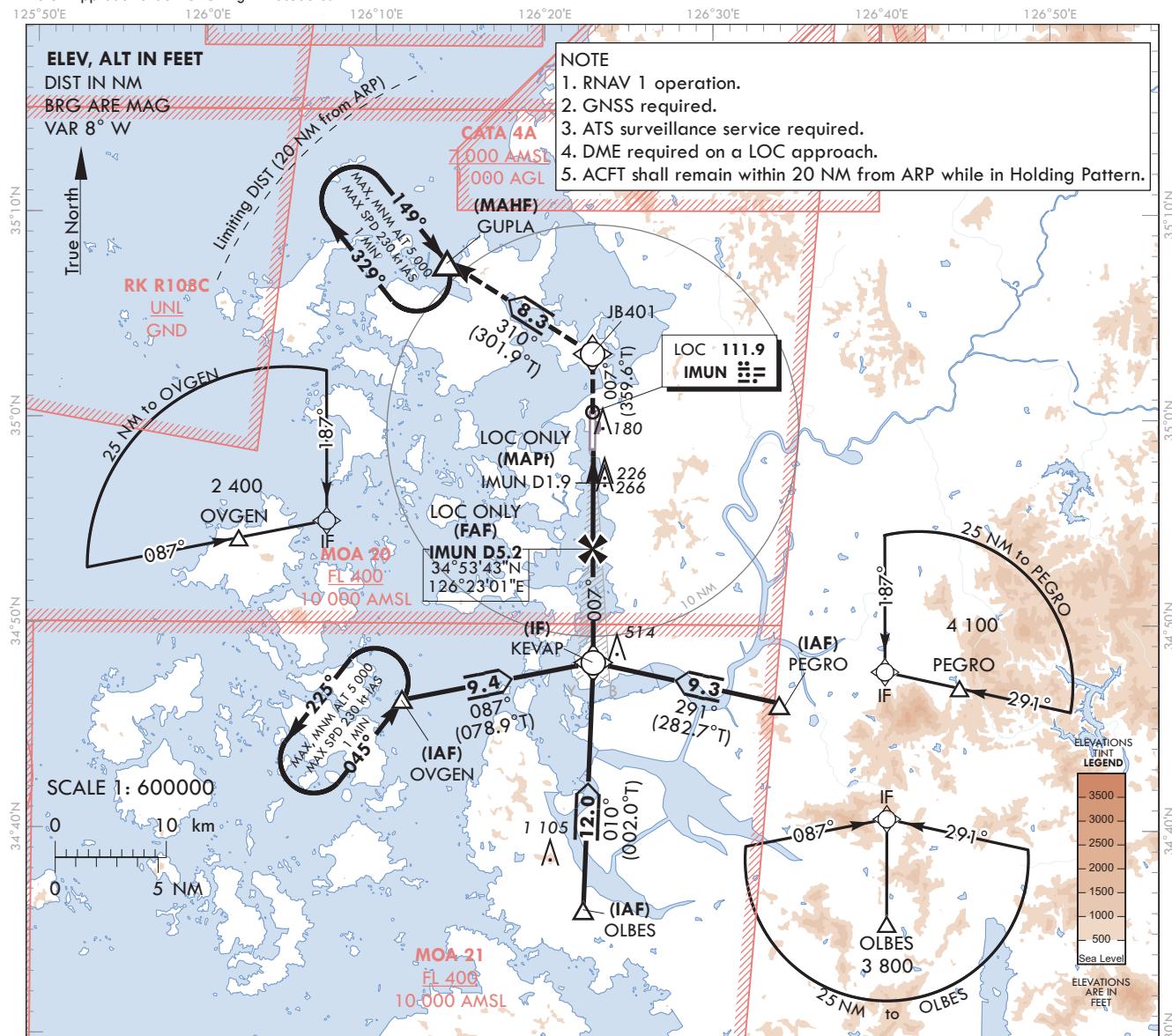
Note : Approach under ICAO Flight Procedures.

AERODROME ELEV 51 ft
HEIGHTS RELATED TO
THR RWY 01 - ELEV 32 ft

GWANGJU APP	120.475	130.0
	228.9	265.5
MUAN TWR	118.25	118.85

MUAN/Muan Intl(RKJB)

ILS Z or LOC Z RWY 01



Change : Amended phrase(procedure → procedures).

MUAN/Muan Intl(RKJB)
ILS Z or LOC Z RWY 01

AERONAUTICAL DATA TABULATION

ILS Z or LOC Z Approach to RWY 01 from OVGEM, OLBES or PEGRO			
Fix/point	Coordinates		
OVGEN(IAF)	34°46'22.2"N 126°11'47.9"E		
OLBES(IAF)	34°36'08.1"N 126°22'32.0"E		
PEGRO(IAF)	34°46'09.0"N 126°34'02.1"E		
KEVAP(IF)	BRG 7.10°/10.69 NM IMUN	34°48'10.9"N	126°23'03.3"E
D5.2 IMUN(FAF LOC ONLY)	BRG 7.10°/5.17 NM IMUN	34°53'42.6"N	126°23'00.5"E
D1.9 IMUN(MAPt LOC ONLY)	BRG 7.10°/1.90 NM IMUN	34°56'59.1"N	126°22'59.2"E
THR RWY 01	Final approach descent angle 3.04°(LOC ONLY)	34°58'43.64"N	126°22'58.45"E
IMUN DME		34°58'53.2"N	126°22'53.8"E
IMUN LOC		35°00'23.1"N	126°22'57.8"E
JB401		35°03'13.1"N	126°22'56.4"E
GUPLA		35°07'37.8"N	126°14'18.1"E

INSTRUMENT
APPROACH
CHART - ICAO

Note : Approach under ICAO Flight Procedure.

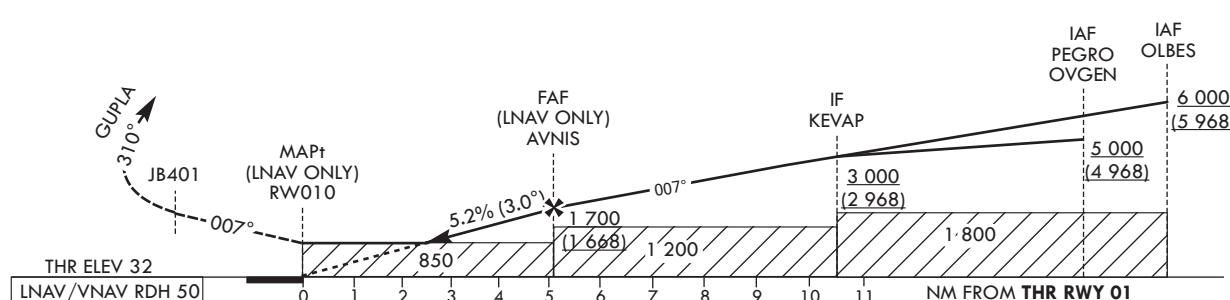
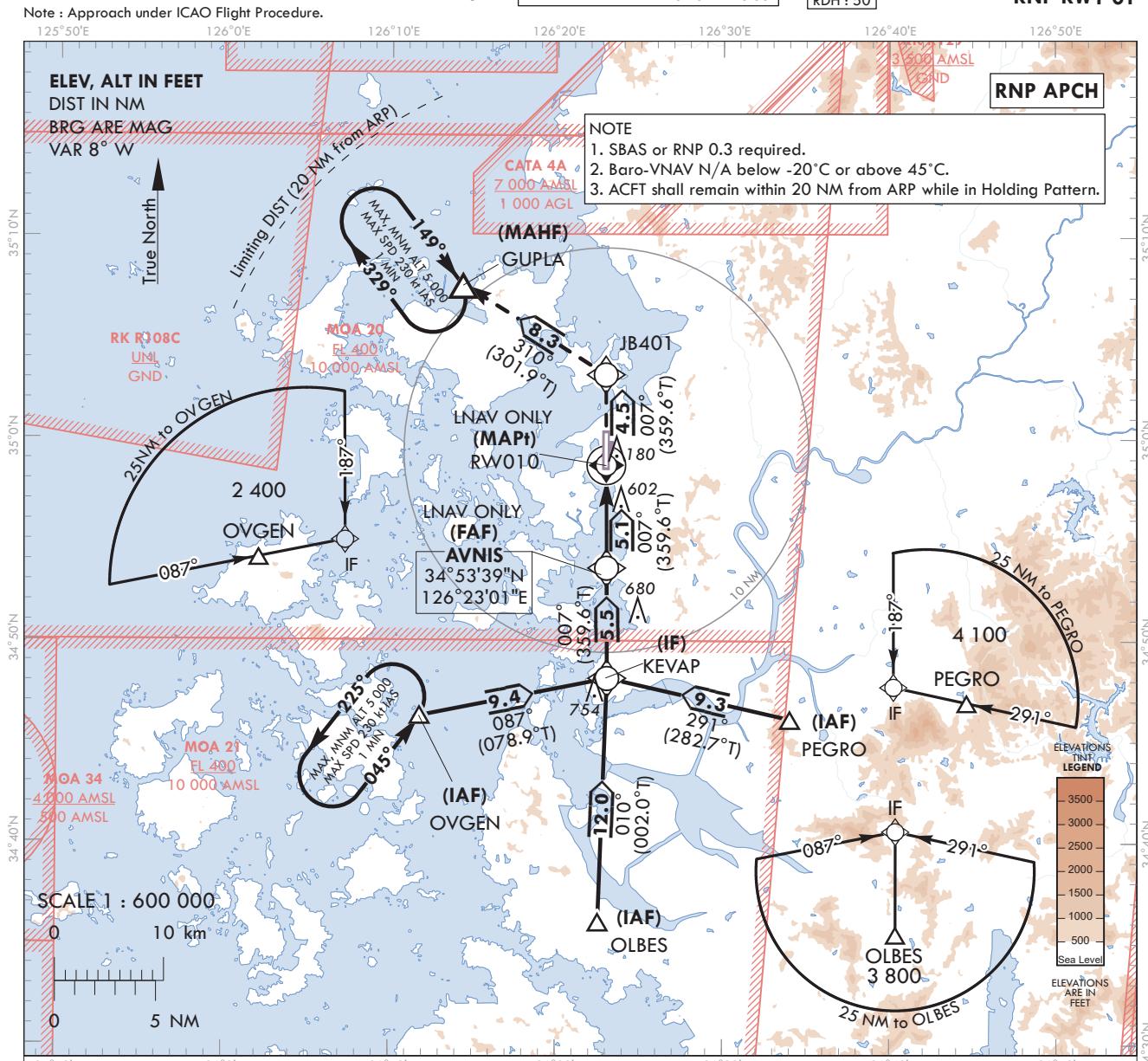
AERODROME ELEV 51 ft
HEIGHTS RELATED TO
THR RWY 01 - ELEV 32 ft

GWANGJU APP 120.475 130.0
228.9 265.5
MUAN TWR 118.25 118.85

KASS
CH86099
K01A
RDH : 50

MUAN/Muan Intl(RKJB)

RNP RWY 01



CATEGORY			DA(H)/MDA(H)	A	B	C	D	Rate of descent	Knots	60	90	120	150	180
STA	LPV	FULL	320 (288)		700 m									
		ALS INOP			1 400 m									
	LNAV/VNAV	FULL	790 (758)		2 700 m									
		ALS INOP			3 500 m									
	LNAV	FULL	850 (818)		3 100 m									
		ALS INOP			3 800 m									

* Timing Not authorized for defining MAPt.
* Circling Not authorized.

Change : Establishment of SBAS procedure.

MUAN/Muan Intl(RKJB)
RNP RWY 01
HOLDING PROCEDURE

AERONAUTICAL DATA TABULATION

Instrument Approach Procedure Coding Tables

RNP RWY 01 - via OVGEN to KEV/AP(IF)									
Serial Number	Path Descriptor	Waypoint Identifier	Fly-over	Course/Track $^{\circ}M(^{\circ})T$	Distance (NM)	Turn direction	Altitude (ft)	Speed (kt)	Coordinates
001	IF	OVGEN	-	-	-	-	+5 000	-	34°46'22.2"N 126°11'47.9"E
002	TF	KEV/AP	-	087(078.9)	9.4	-	+3 000	-	34°48'10.9"N 126°23'03.3"E

RNP RWY 01 - via OLBES to KEV/AP(IF)									
Serial Number	Path Descriptor	Waypoint Identifier	Fly-over	Course/Track $^{\circ}M(^{\circ})T$	Distance (NM)	Turn direction	Altitude (ft)	Speed (kt)	Coordinates
001	IF	OLBES	-	-	-	-	+6 000	-	34°36'08.1"N 126°22'32.0"E
002	TF	KEV/AP	-	010(002.0)	12.0	-	+3 000	-	34°48'10.9"N 126°23'03.3"E

RNP RWY 01 - via PEGRO to KEV/AP(IF)									
Serial Number	Path Descriptor	Waypoint Identifier	Fly-over	Course/Track $^{\circ}M(^{\circ})T$	Distance (NM)	Turn direction	Altitude (ft)	Speed (kt)	Coordinates
001	IF	PEGRO	-	-	-	-	+5 000	-	34°46'09.0"N 126°34'02.1"E
002	TF	KEV/AP	-	291(282.7)	9.3	-	+3 000	-	34°48'10.9"N 126°23'03.3"E

RNP RWY 01 - via KEV/AP(IF) to GUPLA(MAHF)									
Serial Number	Path Descriptor	Waypoint Identifier	Fly-over	Course/Track $^{\circ}M(^{\circ})T$	Distance (NM)	Turn direction	Altitude (ft)	Speed (kt)	Coordinates
002	TF	KEV/AP	-	-	-	-	+3 000	-	34°48'10.9"N 126°23'03.3"E
003	TF	AVNIS	-	007(359.6)	5.5	-	+1 700	-	34°53'38.8"N 126°23'00.8"E
004	TF	RW010	Y	007(359.6)	5.1	-	+850	-	34°58'43.64"N 126°22'58.45"E
005	TF	JB-Q1	-	007(359.6)	4.5	-	-	-	35°03'13.1"N 126°22'56.4"E
006	TF	GUPLA	Y	310(301.9)	8.3	-	-	-	35°07'37.8"N 126°14'18.1"E
007	HM	GUPLA	Y	149(141.1)	-	R	@5 000	-230	35°07'37.8"N 126°14'18.1"E

HOLDING PROCEDURE

Holding Identification	Path Description	Waypoint Identifier	Fly-over	Course/Track $^{\circ}M(^{\circ})T$	Time (min)	Turn direction	Altitude (ft)	Speed (kt)	Coordinates	VPA/RDH	Navigation specification	Remarks
RNP RWY 01	HM	OVGEN	Y	045 (037.0)	1	L	@5 000	-230	34°46'22.2"N 126°11'47.9"E	-	RNAV 1	-

MUAN/Muan Intl(RKJB)
RNP RWY 01

FAS DATA BLOCK INFORMATION

INPUT DATA

Parameters	Values
Operation Type	0
SBAS Provider	6 (KASS)
Airport Identifier	RKJB
Runway	01
Runway Letter	0 (None)
Approach Performance Designator	0
Route Indicator	
Reference Path Data Selector	0
Reference Path Identifier	K01A
LTP/FTP Latitude	34°58'43.6370"N
LTP/FTP Longitude	126°22'58.4515"E
LTP/FTP Ellipsoidal Height (metres)	33.6
FPAP Latitude	35°00'14.4945"N
Delta FPAP Latitude (seconds)	90.8575
FPAP Longitude	126°22'57.8165"E
Delta FPAP Longitude (seconds)	-0.6350
Threshold Crossing Height (TCH)	50.0
TCH Units Selector	0 (Feet)
Glidepath Angle (GPA, degrees)	3.00
Course Width (metres)	105.00
Length Offset (metres)	0
Horizontal Alert Limit (HAL, meters)	40.0
Vertical Alert Limit (VAL, meters)	50.0

OUTPUT DATA

Data Block	60 02 0A 0B 12 01 00 00 01 31 30 0B 6A E2 02 0F 27 D7 3C 36 50 15 D3 C5 02 0A FB FF F4 01 2C 01 64 00 C8 FA F7 D9 C7 7B
Calculated CRC Value	F7D9C77B

INTENTIONALLY

LEFT

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INSTRUMENT
APPROACH
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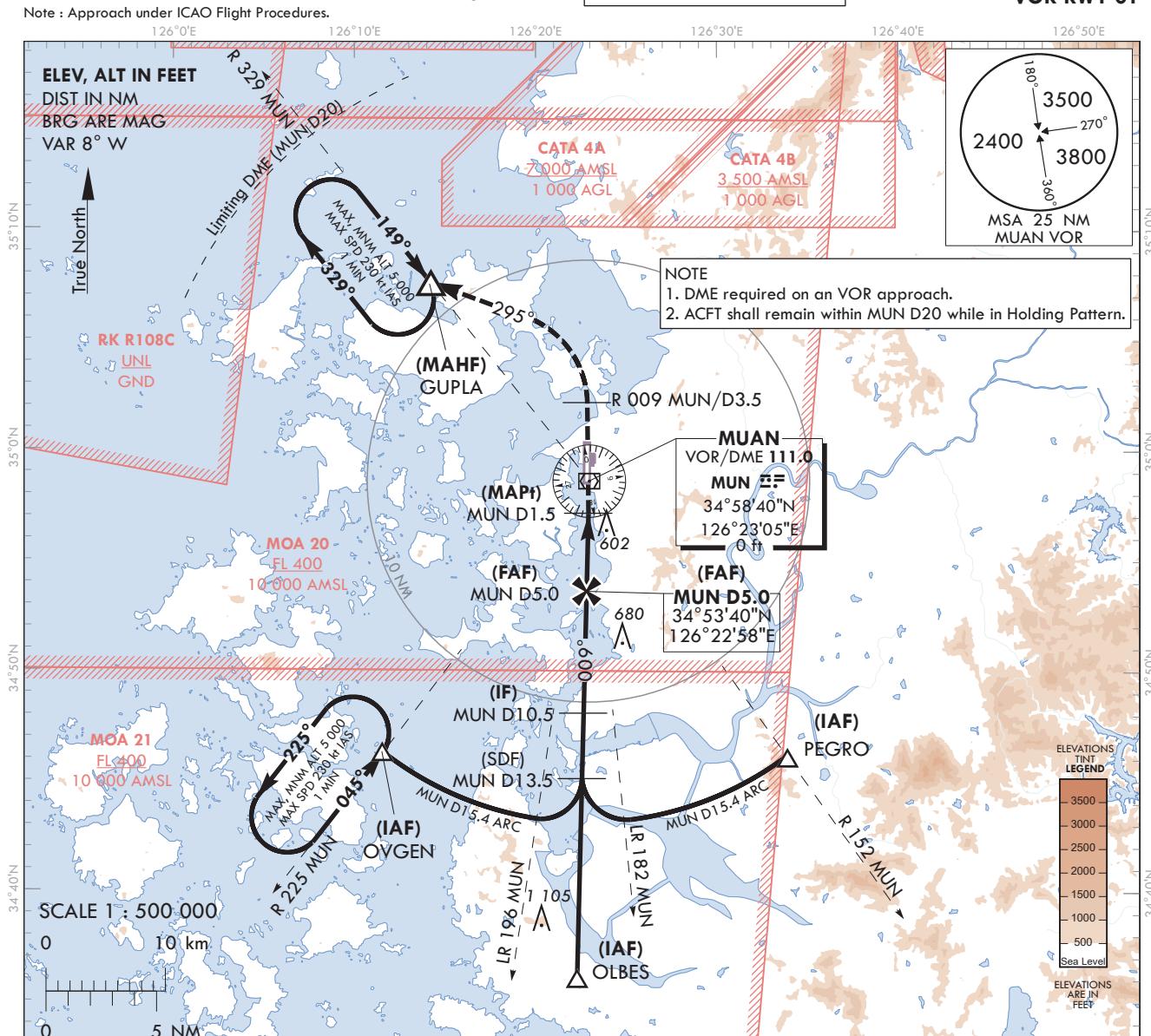
Note : Approach under ICAO Flight Procedures.

AERODROME ELEV 51 ft
HEIGHTS RELATED TO
THR RWY 01 - ELEV 32 ft

GWANGJU APP	120.475	130.0
	228.9	265.5
MUAN TWR	118.25	118.85

MUAN/Muan Intl(RKJB)

VOR RWY 01

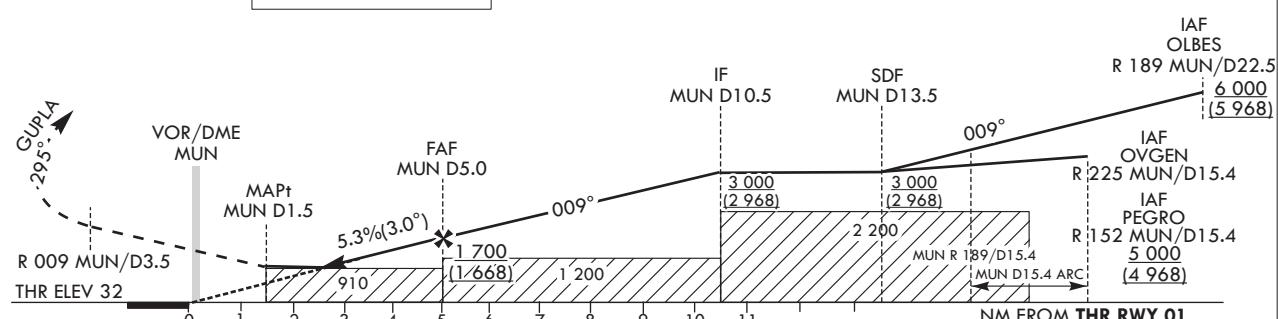


RECOMMENDED PROFILE	DME MUN	4	3	2.5
Final Approach Gradient 5.26%, 320 ft/NM	ALT(HGT)	1 381 (1 349)	1 061 (1 029)	910 (878)

MISSSED APPROACH

Climb to R 009 MUN/D3.5, then turn left
HDG 295° to GUPLA and Hold at 5 000 ft.

TRANSITION ALT 14 000
TRANSITION LVL FL 140



CATEGORY	MDA/(MDH)	A	B	C	D	Knots	60	90	120	150	180			
						Rate of descent	V/V fpm	320	480	640	799	959		
STA	FULL	910 (878)	3 300m				* Circling Not authorized.							
	ALS INOP		4 000m				* Timing Not authorized for defining MAPt.							

Change : Amended phrases(procedure → procedures, IMUN → MUN).

MUAN/Muan Intl(RKJB)
VOR RWY 01

AERONAUTICAL DATA TABULATION

VOR Approach to RWY 01 from OVGEM, OLBES or PEGRO			
Fix/point	Coordinates		
OVGEN(IAF)	R 225 MUN /15.4 NM MUN	34°46'22.2"N	126°11'47.9"E
OLBES(IAF)	R 189 MUN /22.5 NM MUN	34°36'08.1"N	126°22'32.0"E
PEGRO(IAF)	R 152 MUN /15.4 NM MUN	34°46'09.0"N	126°34'02.1"E
D13.5 MUN(SDF)	R 189 MUN/13.5 NM MUN	34°45'08.9"N	126°22'45.3"E
D10.5 MUN(IF)	R 189 MUN/10.5 NM MUN	34°48'09.1"N	126°22'49.8"E
D5.0 MUN(FAF)	R 189 MUN/5.0 NM MUN	34°53'39.6"N	126°22'57.9"E
D1.5 MUN(MAPt)	R 189 MUN/1.5 NM MUN	34°57'09.9"N	126°23'03.1"E
MUN VOR/DME		34°58'40.0"N	126°23'05.4"E
THR RWY 01	Final approach descent angle 3.01°	34°58'43.64"N	126°22'58.45"E
D3.5 MUN	R 009 MUN /3.5 NM MUN	35°02'10.2"N	126°22'57.2"E
GUPLA	HDG 294.81/11.5 NM MUN	35°07'37.8"N	126°14'18.1"E

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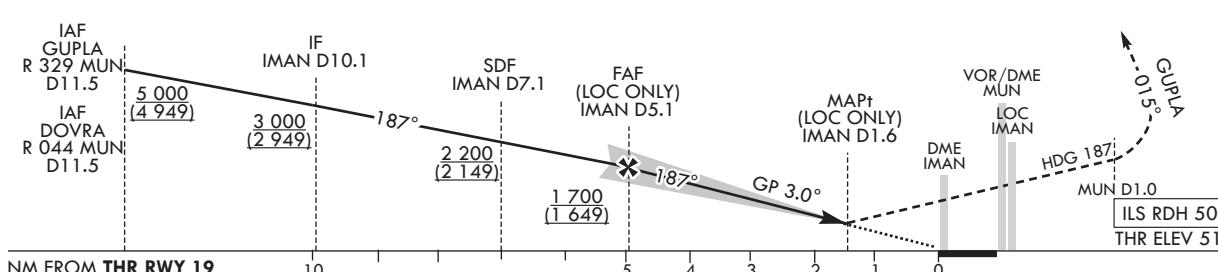
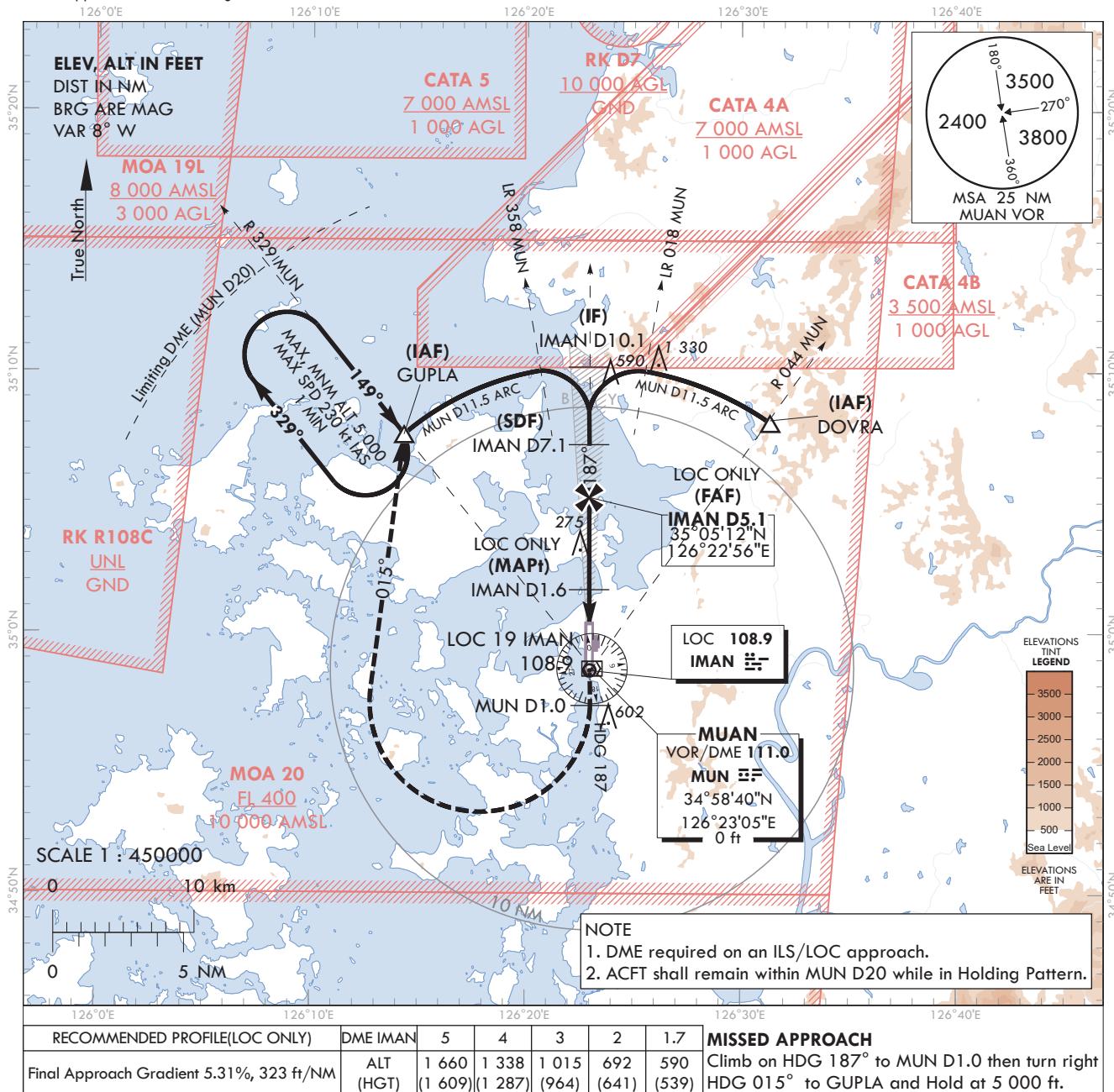
AERODROME ELEV 51 ft
HEIGHTS RELATED TO
THR RWY 19 - ELEV 51 ft

GWANGJU APP	120.475	130.0
	228.9	265.5
MUAN TWR	118.25	118.85

Note : Approach under ICAO Flight Procedures.

MUAN/Muan Intl(RKJB)

ILS Y or LOC Y RWY 19



STA	CATEGORY		DA(DH)/MDA(MDH)	A	B	C	D	Rate of descent	Knots	60	90	120	150	180	
	CAT-I (CG 2.5%)	FULL ALS INOP													
	CAT-I (CG 5.0%)	FULL ALS INOP	251	RVR 550 m, VIS 800 m		1 200 m	2 000 m	2 700 m	V/V fpm	318	478	637	796	955	
	LOC	FULL ALS INOP	590												
* Timing Not authorized for defining MAPt.		* Circling Not authorized.													

Change : Amended phrase(procedure → procedures).

MUAN/Muan Intl(RKJB)
ILS Y or LOC Y RWY 19

AERONAUTICAL DATA TABULATION

ILS Y or LOC Y Approach to RWY 19 from GUPLA or DOVRA			
Fix/point		Coordinates	
GUPLA(IAF)	R 329 MUN /11.5 NM MUN	35°07'37.8"N	126°14'18.1"E
DOVRA(IAF)	R 044 MUN /11.5 NM MUN	35°07'57.8"N	126°31'22.0"E
D10.1 IMAN(IF)	BRG 187.14°/10.14 NM IMAN	35°10'11.0"N	126°22'53.2"E
D7.1 IMAN(SDF)	BRG 187.14°/7.14 NM IMAN	35°07'13.4"N	126°22'54.7"E
D5.1 IMAN(FAF LOC ONLY)	BRG 187.14°/5.12 NM IMAN	35°05'12.3"N	126°22'55.7"E
D1.6 IMAN(MAPt LOC ONLY)	BRG 187.14°/1.60 NM IMAN	35°01'40.5"N	126°22'57.2"E
THR RWY 19	Final approach descent angle 3.04°(LOC ONLY)	35°00'14.49"N	126°22'57.82"E
IMAN DME		35°00'04.3"N	126°22'53.3"E
IMAN LOC		34°58'35.0"N	126°22'58.5"E
MUN VOR/DME		34°58'40.0"N	126°23'05.4"E
D1.0 MUN	HDG 187		-
GUPLA	HDG 015/11.5 NM MUN	35°07'37.8"N	126°14'18.1"E

INSTRUMENT
APPROACH
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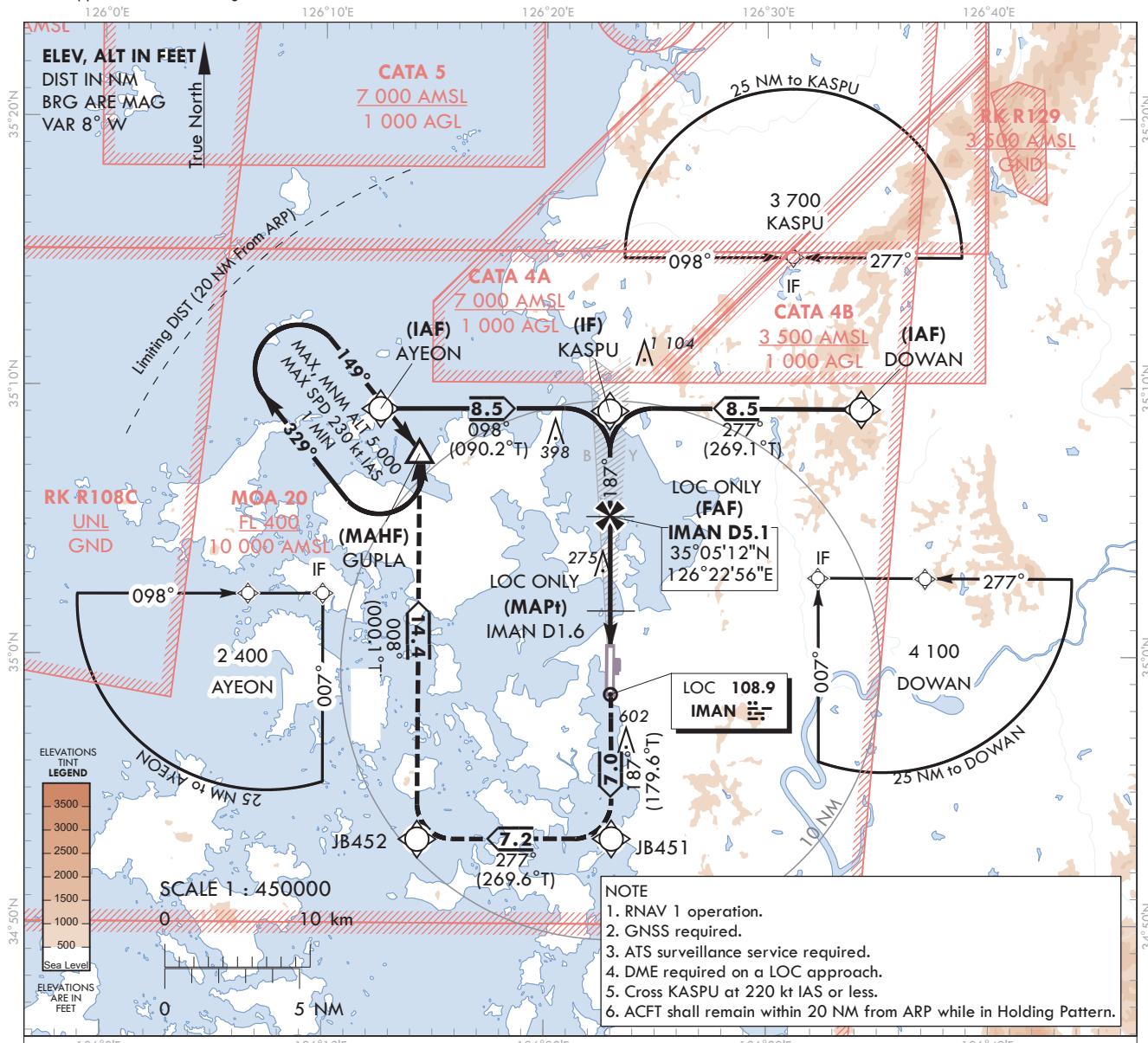
AERODROME ELEV 51 ft
HEIGHTS RELATED TO
THR RWY 19 - ELEV 51 ft

GWANGJU APP	120.475	130.0
	228.9	265.5
MUAN TWR	118.25	118.85

Note : Approach under ICAO Flight Procedures.

MUAN/Muan Intl(RKJB)

ILS Z or LOC Z RWY 19



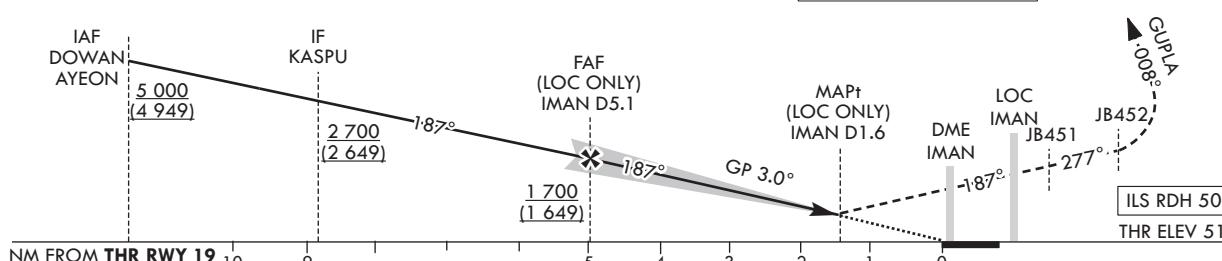
MISSSED APPROACH

Climb to 5 000 ft on track of 187° to JB451,
RIGHT turn on track of 277° to JB452,
then RIGHT turn on track of 008° to GUPLA.
Hold as published.

RECOMMENDED PROFILE(LOC ONLY)	DME IMAN	5	4	3	2	1.7
Final Approach Gradient 5.31%, 323 ft/NM	ALT(HGT)	1 660 (1 609)	1 338 (1 287)	1 015 (964)	692 (641)	590 (539)

* Missed approach turns are limited to maximum of 230 kt IAS.

TRANSITION ALT 14 000
TRANSITION LVL FL 140



STA	CATEGORY		DA(DH)/MDA(MDH)	A	B	C	D	Rate of descent	Knots	60	90	120	150	180				
	CAT-I (CG 2.5%)	FULL ALS INOP (363)																
	CAT-I (CG 5.0%)	FULL ALS INOP (200)	RVR 550 m, VIS 800 m		1 200 m		2 000 m		318		478	637	796	955				
	LOC	FULL ALS INOP (539)	1 200 m		2 700 m		2 000 m		* Timing Not authorized for defining MAPt.		* Circling Not authorized.							

Change : Amended phrase(procedure → procedures).

MUAN/Muan Intl(RKJB)
ILS Z or LOC Z RWY 19

AERONAUTICAL DATA TABULATION

ILS Z or LOC Z Approach to RWY 19 from AYEON or DOWAN		
Fix/point	Coordinates	
AYEON(IAF)	35°09'10.2"N	126°12'32.1"E
DOWAN(IAF)	35°09'16.1"N	126°33'16.0"E
KASPU(IF)	35°09'07.5"N	126°22'54.1"E
D5.1 IMAN(FAF LOC ONLY)	BRG 187.14°/5.12 NM IMAN	35°05'12.3"N 126°22'55.7"E
D1.6 IMAN(MAPt LOC ONLY)	BRG 187.14°/1.60 NM IMAN	35°01'40.5"N 126°22'57.2"E
THR RWY 19	Final approach descent angle 3.04° (LOC ONLY)	35°00'14.49"N 126°22'57.82"E
IMAN DME	35°00'04.3"N	126°22'53.3"E
IMAN LOC	34°58'35.0"N	126°22'58.5"E
JB451	34°53'13.8"N	126°23'01.0"E
JB452	34°53'10.9"N	126°14'17.1"E
GUPLA	35°07'37.8"N	126°14'18.1"E

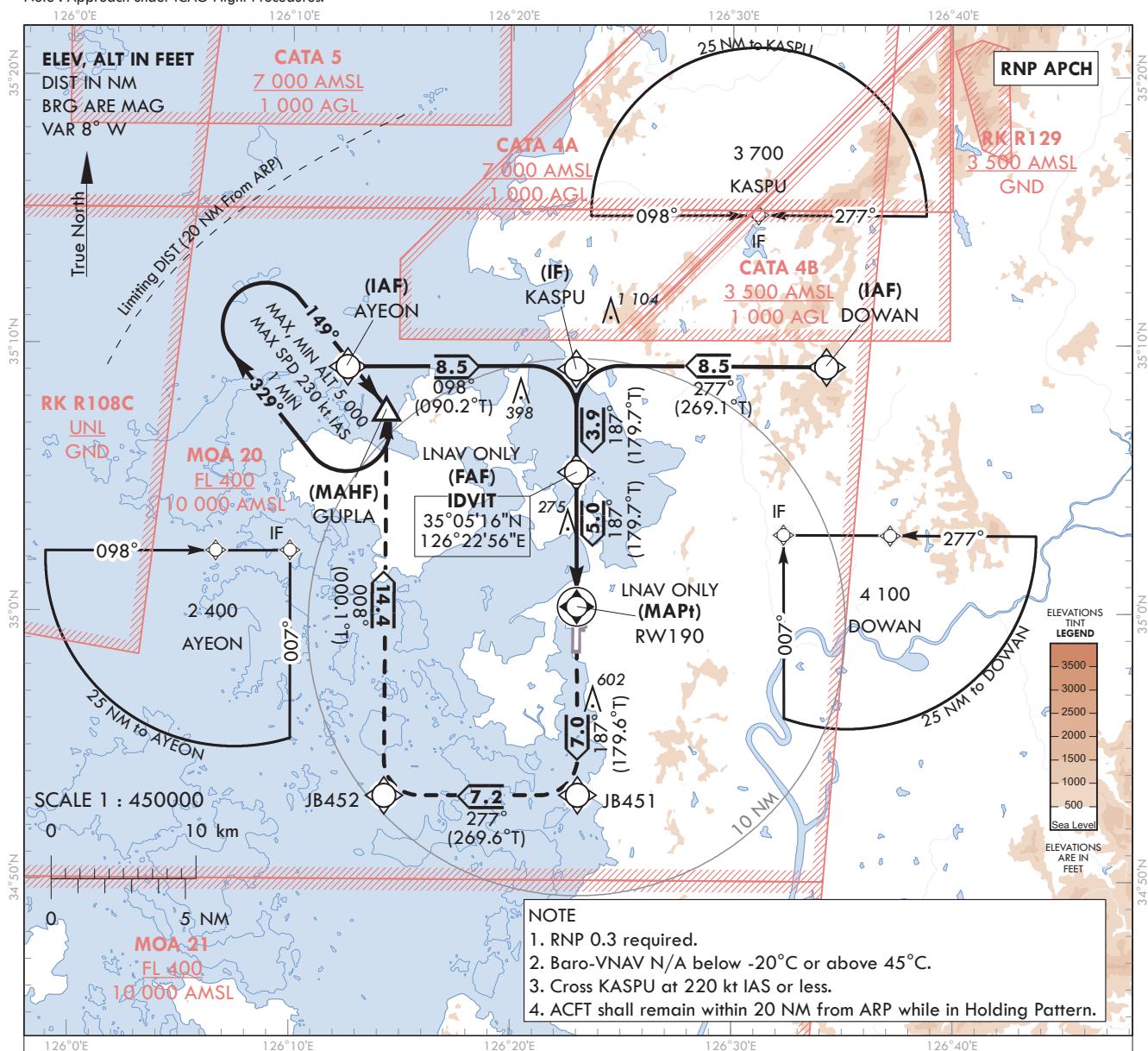
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Note : Approach under ICAO Flight Procedures.

AERODROME ELEV 51 ft
HEIGHTS RELATED TO
THR RWY 19 - ELEV 51 ft

GWANGJU APP	120.475	130.0
	228.9	265.5
MUAN TWR	118.25	118.85

RNP RWY 19



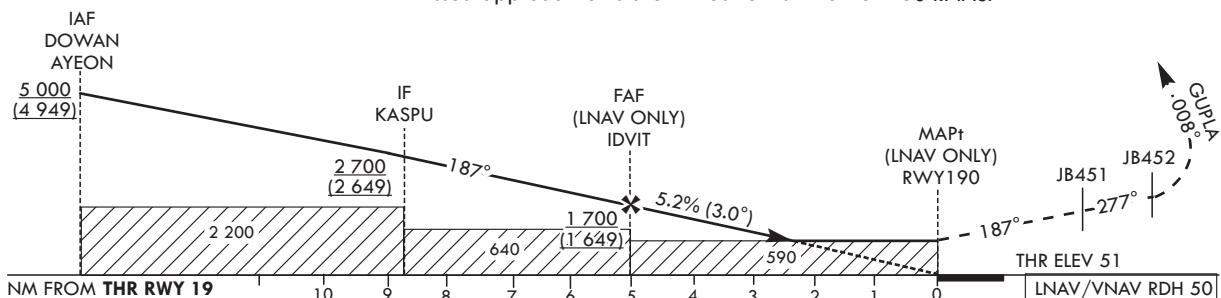
TRANSITION ALT 14 000
TRANSITION LVL FL 140

MISSED APPROACH

Climb to 5 000 ft on track of 187° to JB451, RIGHT turn on track of 277° to JB452, Then RIGHT turn on track of 008° to GUPLA.

Hold as published.

* Missed approach turns are limited to maximum of 230 kt IAS.



CATEGORY		DA(H)/MDA(H)	A	B	C	D	Knots	60	90	120	150	180	
STA	LNAV/VNAV	FULL	460		1 200 m		Rate of descent	V/V fpm	319	478	637	797	957
		ALS INOP	(409)		1 900 m								
	LNAV	FULL	590		1 700 m								
		ALS INOP	(539)		2 400 m								

* Timing Not authorized for defining MAPt.
* Circling Not authorized.

Change : Amended phrase(procedure → procedures).

MUAN/Muan Intl(RKJB)
RNP RWY 19

AERONAUTICAL DATA TABULATION

Instrument Approach Procedure Coding Tables

RNP RWY 19 - via DOW/AN to KASPU(IF)							
Serial Number	Path Descriptor	Waypoint Identifier	Fly-over	Course/Track °N(°T)	Distance (NM)	Turn direction	Altitude (ft)
							Speed (kt)
001	IF	DOW/AN	-	-	-	+ 5 000	-
002	TF	KASPU	277(269.1)	8.5	-	+ 2 700	-220
							35°09'16.1"N 126°33'16.0"E

RNP RWY 19 - via AYEON to KASPU(IF)							
Serial Number	Path Descriptor	Waypoint Identifier	Fly-over	Course/Track °N(°T)	Distance (NM)	Turn direction	Altitude (ft)
							Speed (kt)
001	IF	AYEON	-	-	-	+ 5 000	-
002	TF	KASPU	-	098(090.2)	8.5	-	+ 2 700
							-220
							35°09'10.2"N 126°12'32.1"E

RNP RWY 19 - via KASPU(IF) to GUPLA(MAHF)							
Serial Number	Path Descriptor	Waypoint Identifier	Fly-over	Course/Track °N(°T)	Distance (NM)	Turn direction	Altitude (ft)
							Speed (kt)
002	TF	KASPU	-	-	-	+ 2 700	-220
003	TF	IDVIT	-	187(179.7)	3.9	+ 1 700	-
004	TF	RW190	Y	187(179.7)	5.0	+ 590	-
005	TF	JB451	-	187(179.6)	7.0	-	-230
006	TF	JB452	-	277(269.6)	7.2	-	-230
007	TF	GUPLA	Y	008(000.1)	14.4	-	-230
008	HM	GUPLA	Y	149(141.1)	-	R	@ 5 000
							-35°09'37.8"N 126°14'18.1"E
							-
							-35°00'14.49"N 126°22'57.82"E
							-3.00/50
							RNP APCH
							MAP1
							-
							RNP APCH
							-
							RNP APCH
							-
							RNP APCH
							-
							RNP APCH
							-
							1 MIN (Outbound timing)

INSTRUMENT
APPROACH
CHART - ICAO

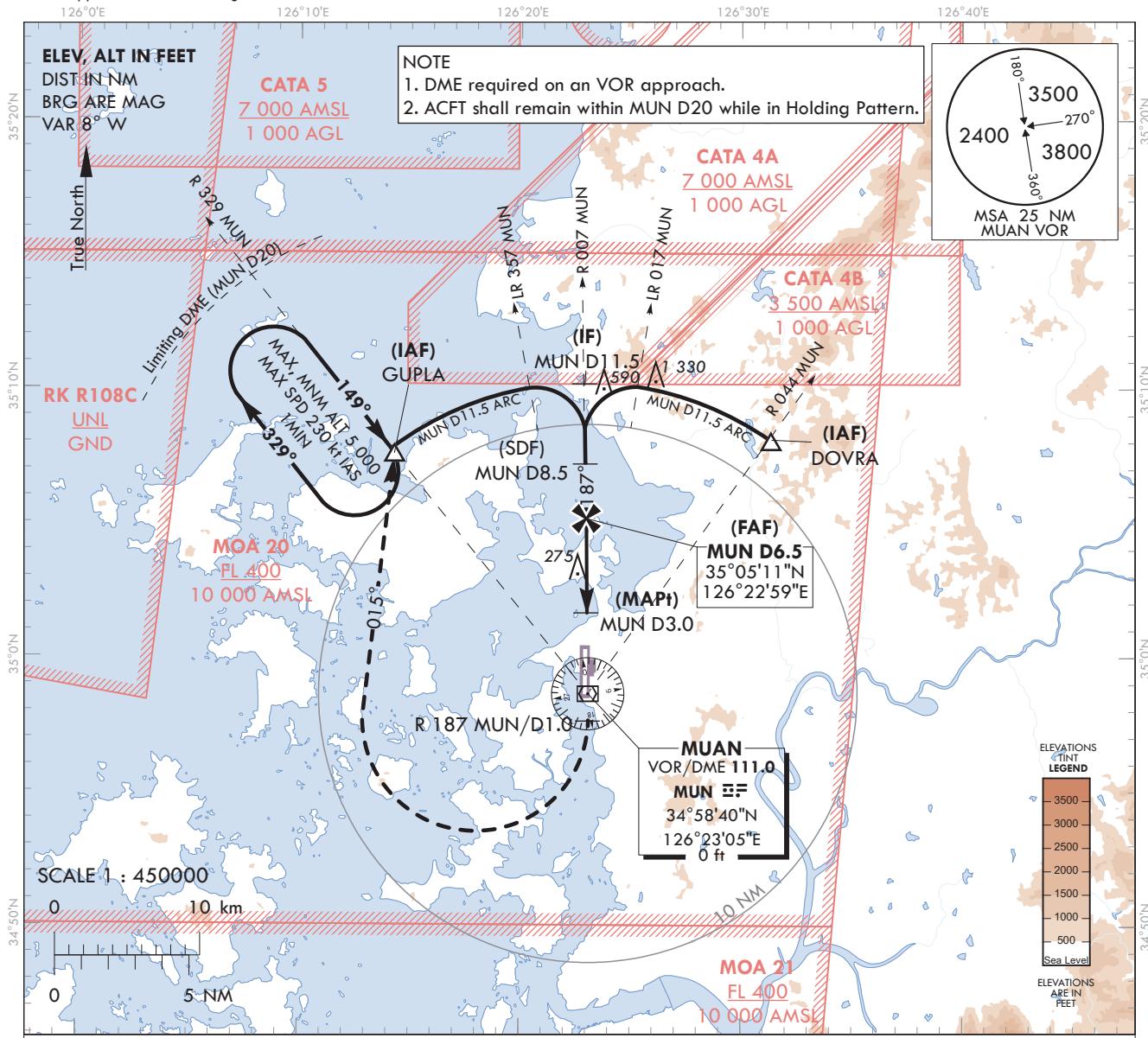
Note : Approach under ICAO Flight Procedures.

AERODROME ELEV 51 ft
HEIGHTS RELATED TO AD ELEV

GWANGJU APP	120.475	130.0
	228.9	265.5
MUAN TWR	118.25	118.85

MUAN/Muan Intl(RKJB)

VOR RWY 19

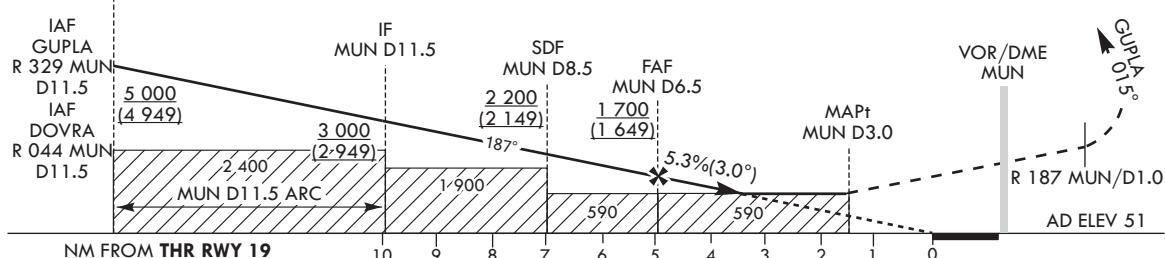


RECOMMENDED PROFILE	DME MUN	6	5	4	3.1
Final Approach Gradient 5.35%, 325 ft/NM	ALT(HGT)	1 538 (1 487)	1 214 (1 163)	889 (838)	590 (539)

MISSSED APPROACH

Climb on R 187 MUN/D1.0, then turn right HDG 015° to GUPLA and Hold at 5 000 ft.

TRANSITION ALT 14 000
TRANSITION LVL FL 140



CATEGORY	MDA/(MDH)	A	B	C	D	Knots	60	90	120	150	180		
						Rate of descent V/V fpm	325	487	649	811	974		
STA	FULL	590 (539)	2 100 m			* Circling Not authorized.	* Timing Not authorized for defining the MAPt.						
	ALS INOP		2 800 m										

Change : Amended phrase(procedure → procedures).

MUAN/Muan Intl(RKJB)
VOR RWY 19

AERONAUTICAL DATA TABULATION

VOR Approach to RWY 19 from GUPLA or DOVRA			
Fix/point	Coordinates		
GUPLA(IAF)	R 329 MUN /11.5 NM MUN	35°07'37.8"N	126°14'18.1"E
DOVRA(IAF)	R 044 MUN /11.5 NM MUN	35°07'57.8"N	126°31'22.0"E
D11.5 MUN(IF)	R 007 MUN/11.5 NM MUN	35°10'11.0"N	126°22'53.2"E
D8.5 MUN(SDF)	R 007 MUN/8.5 NM MUN	35°07'13.6"N	126°22'56.3"E
D6.5 MUN(FAF)	R 007 MUN/6.5 NM MUN	35°05'10.6"N	126°22'59.5"E
D3.0 MUN(MAPt)	R 007 MUN/3.0 NM MUN	35°01'40.2"N	126°23'02.2"E
THR RWY 19	Final approach descent angle 3.06°	35°00'14.49"N	126°22'57.82"E
MUN VOR/DME		34°58'40.0"N	126°23'05.4"E
D1.0 MUN	R 187 MUN /1.0 NM MUN	34°57'39.9"N	126°23'06.3"E
GUPLA	HDG 014.75/11.5 NM MUN	35°07'37.8"N	126°14'18.1"E