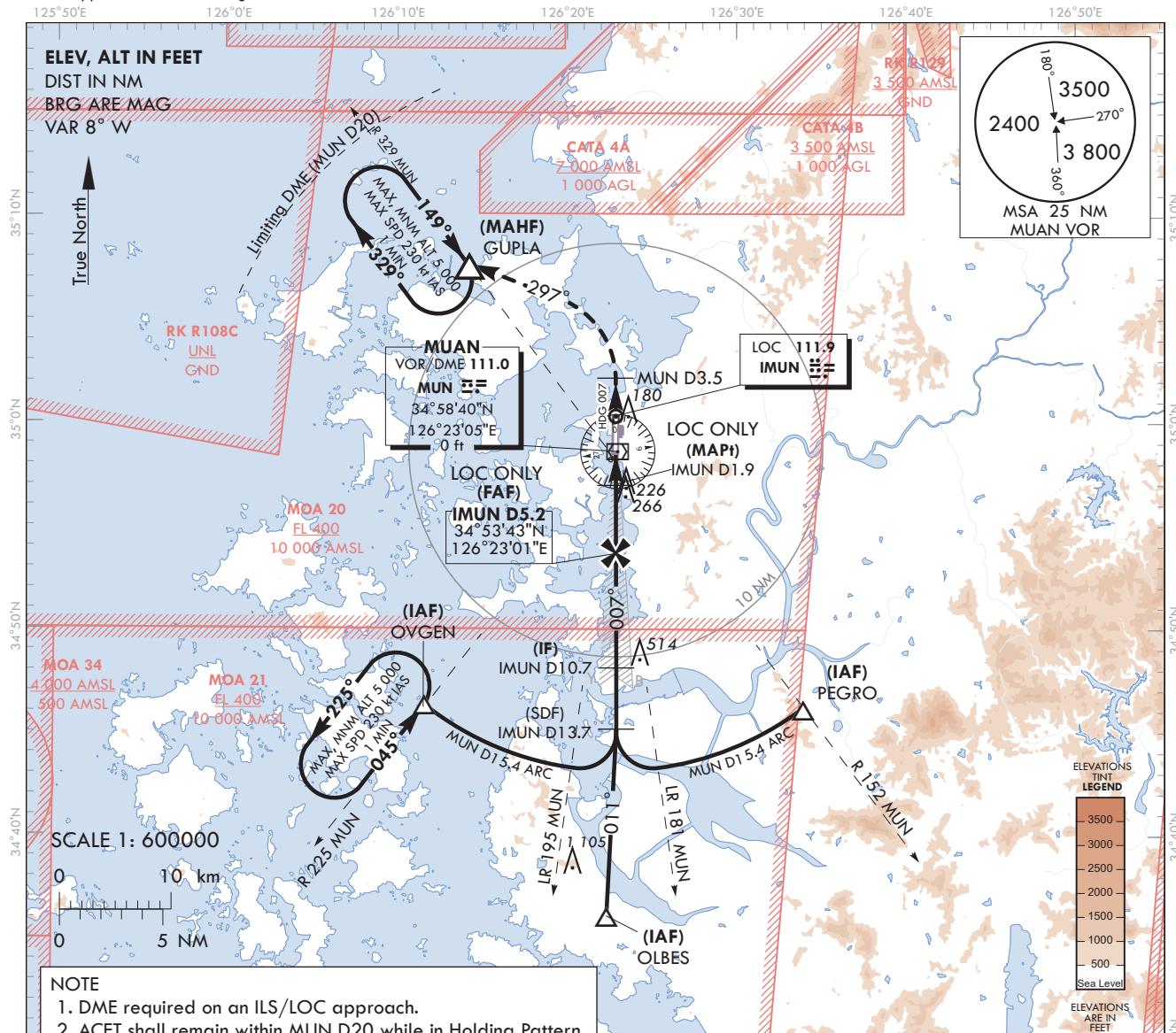


INSTRUMENT
APPROACH
CHART - ICAO

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

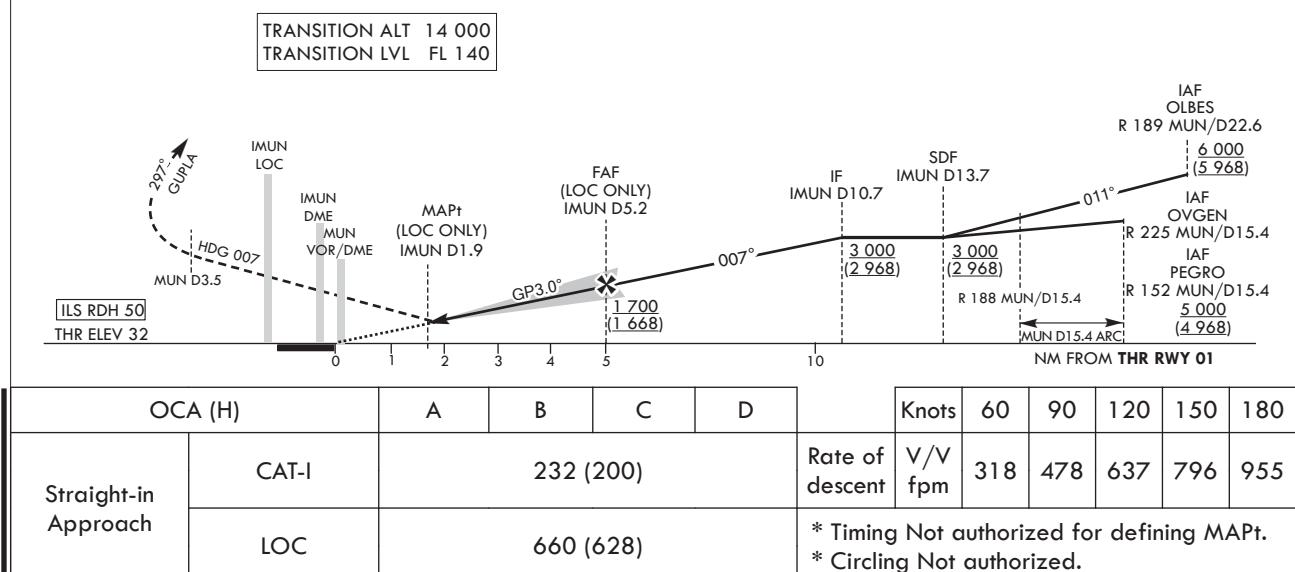
Note : Approach under ICAO Flight Procedures.



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.					



Change : Information of landing minima(OCA(H)).

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

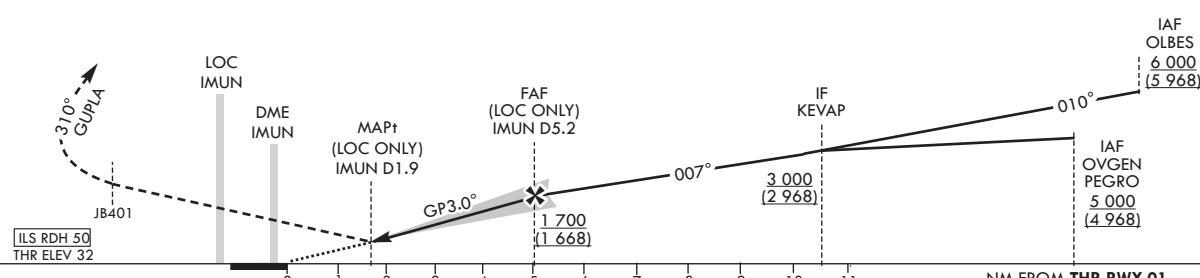
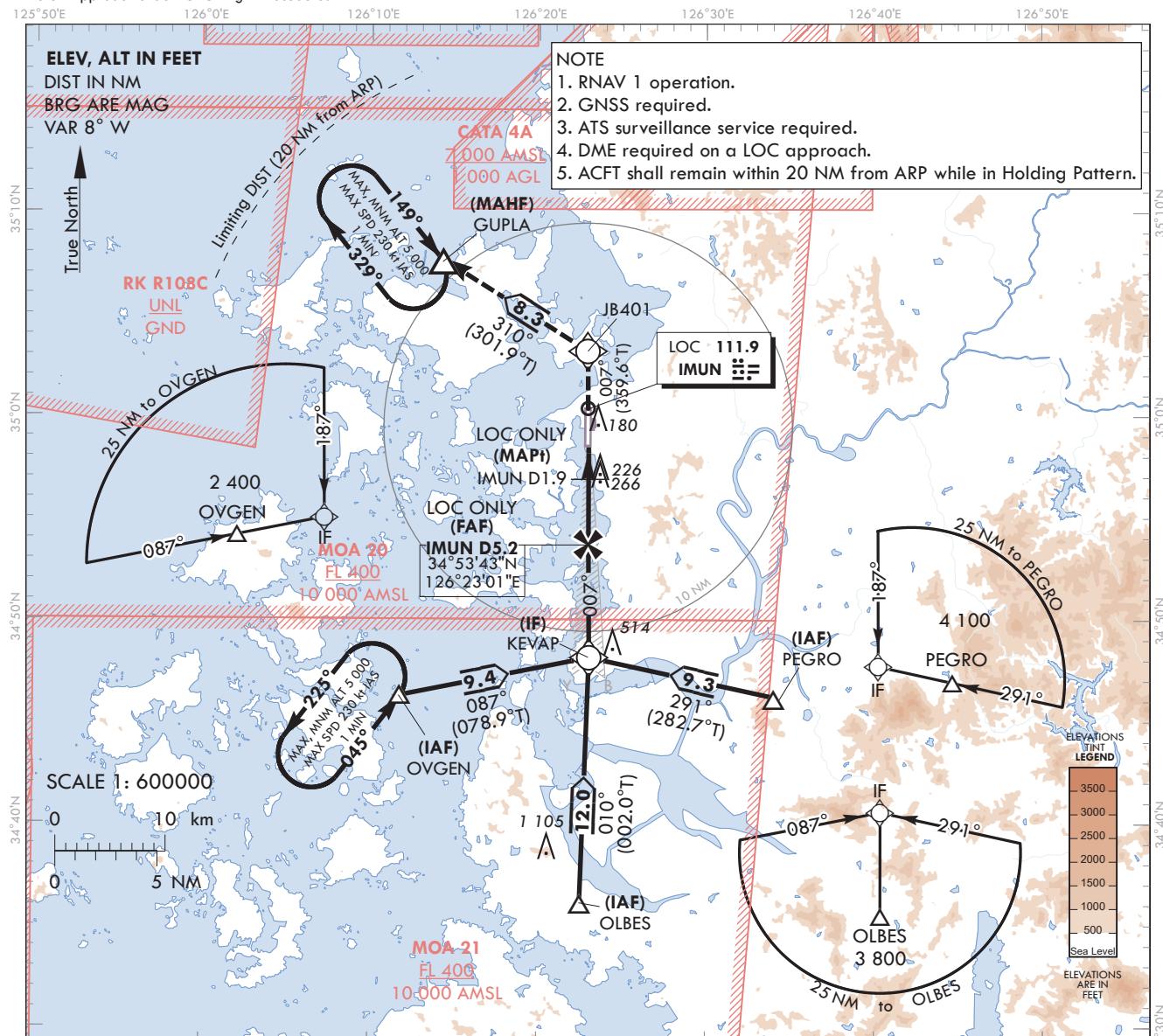
Note : Approach under ICAO Flight Procedures.

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



OCA (H)		A	B	C	D	Knots	60	90	120	150	180
Straight-in Approach	CAT-I		232 (200)			Rate of descent	V/V fpm	318	478	637	796 955
	LOC		660 (628)			* Timing Not authorized for defining MAPt. * Circling Not authorized.					

Change : Information of landing minima(OCA(H)).

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 Procedures.

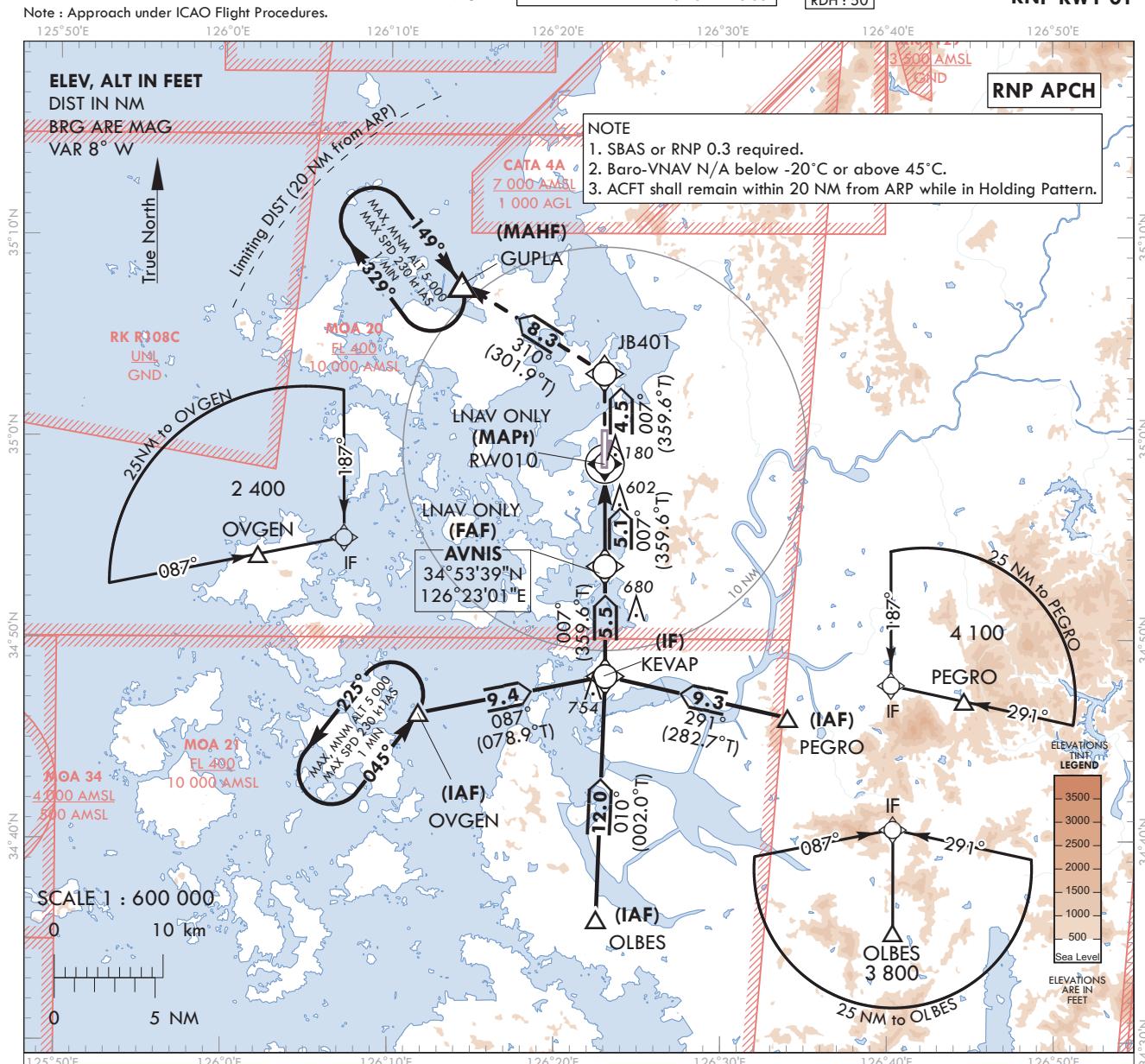
AERODROME ELEV 51 ft
HEIGHTS RELATED TO
THR RWY 01 - ELEV 32 ft

GWANGJU APP 120.475 130.0
228.9 265.5
MUAN TWR 118.25 118.85

KASS
CH86099
K01A
RDH : 50

MUAN/Muan Intl(RKJB)

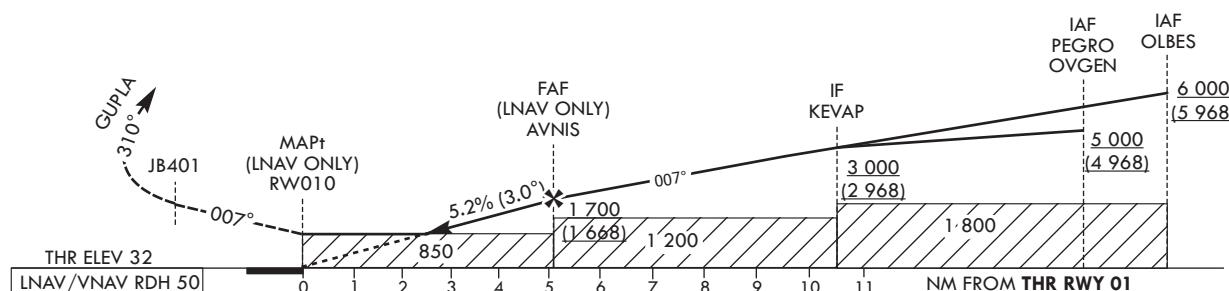
RNP RWY 01



TRANSITION ALT 14 000
TRANSITION LVL FL 140

MISSSED APPROACH

Climb to 5 000 ft on track of 007° to JB401,
then LEFT turn on track of 310° to GUPLA.
Hold as published.



OCA (H)		A	B	C	D		Knots	60	90	120	150	180
Straight-in Approach	LPV		320 (288)			Rate of descent	V/V fpm	319	478	638	797	957
	LNAV/VNAV		790 (758)			* Timing Not authorized for defining MAPt. * Circling Not authorized.						
	LNAV		850 (818)									

Change : Information of landing minima(OCA(H)).

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 °M(°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 °M(°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 °M(°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(MAPt)									
Serial Number	Path Descriptor	Waypoint Identifier	Fly-over	Course/Track °M(°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	JB01	-	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 °M(°T)	Time (min)	Turn direction	Altitude (ft)	Speed (kt)	Coordinates
RNP RWY 01	HM	OVGEN	Y	045 (037.0)	1	L	@5 000	-230	34°46'22.2"N 126°11'47.9"E

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

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

Change : Establishment of FAS data block information.

INTENTIONALLY

LEFT

BLANK

INSTRUMENT
APPROACH
CHART - ICAO

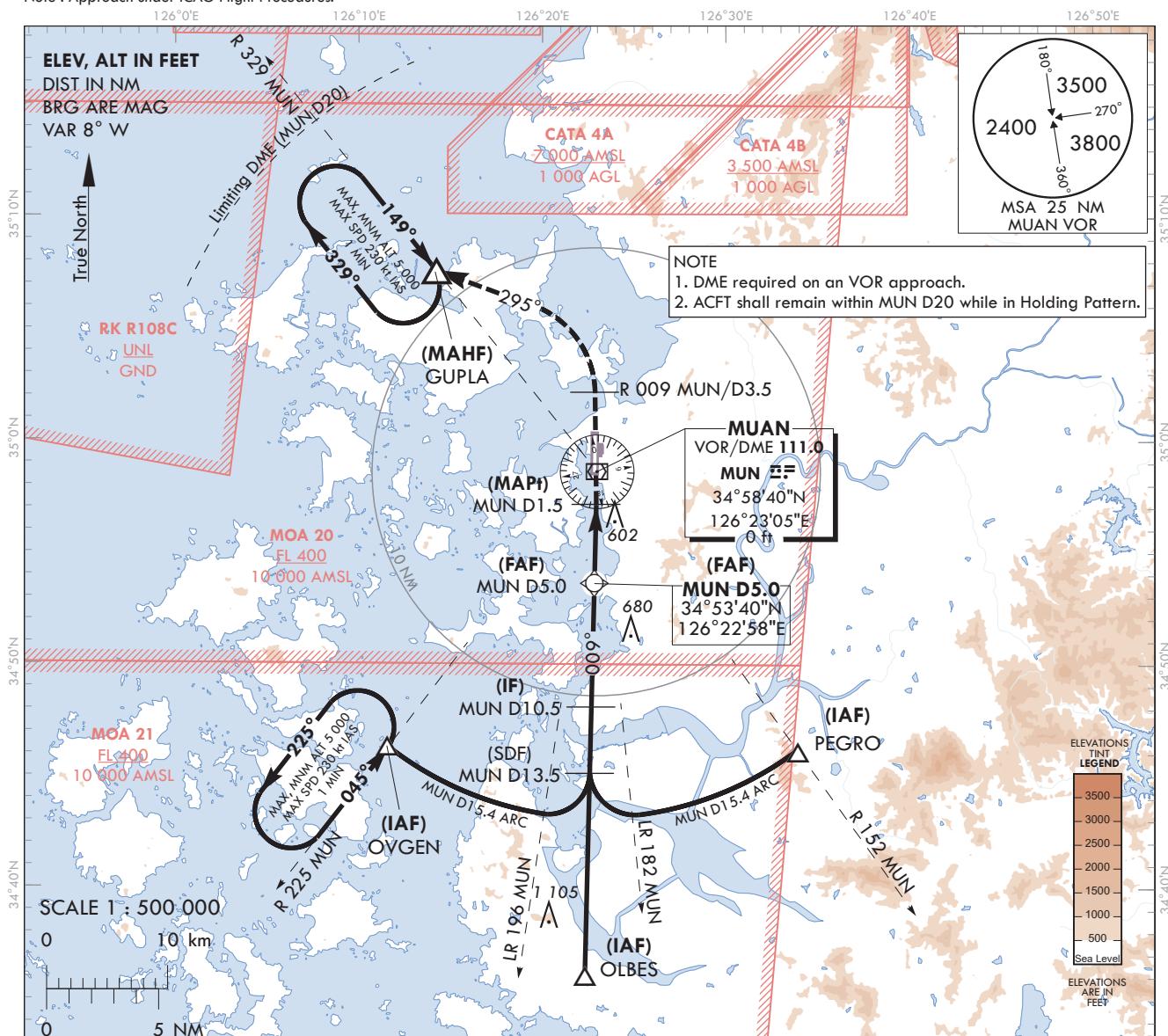
Note : Approach under ICAO Flight Procedures.

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)

VOR RWY 01

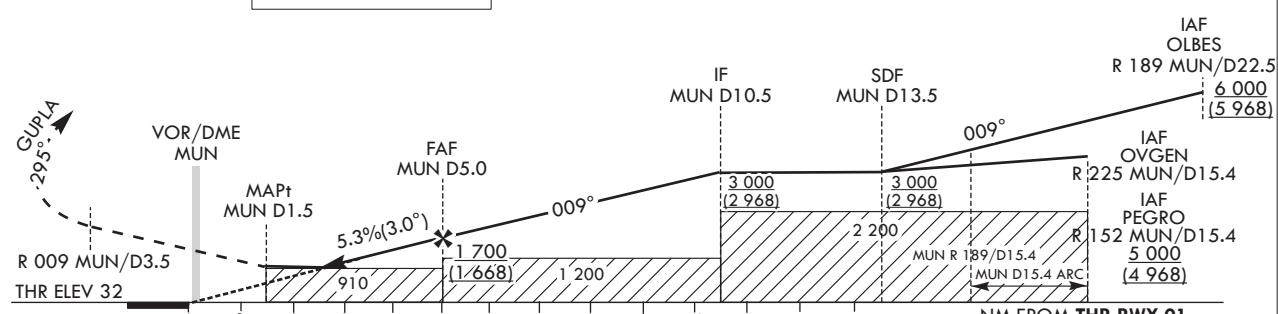


RECOMMENDED PROFILE	DME MUN	4	3	2.5
Final Approach Gradient 5.26%, 320 ft/NM	ALT(HGT)	1 381 (1 349)	1 061 (1 029)	910 (878)

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



OCA (H)	A	B	C	D	Knots	60	90	120	150	180				
Straight-in Approach	910 (878)				Rate of descent	V/V fpm	320	480	640	799	959			
* Circling Not authorized.														
* Timing Not authorized for defining MAPt.														

Change : Information of landing minima(OCA(H)).

MUAN/Muan Intl(RKJB)
VOR RWY 01

AERONAUTICAL DATA TABULATION

VOR Approach to RWY 01 from OVGEN, 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

INSTRUMENT
APPROACH
CHART - ICAO

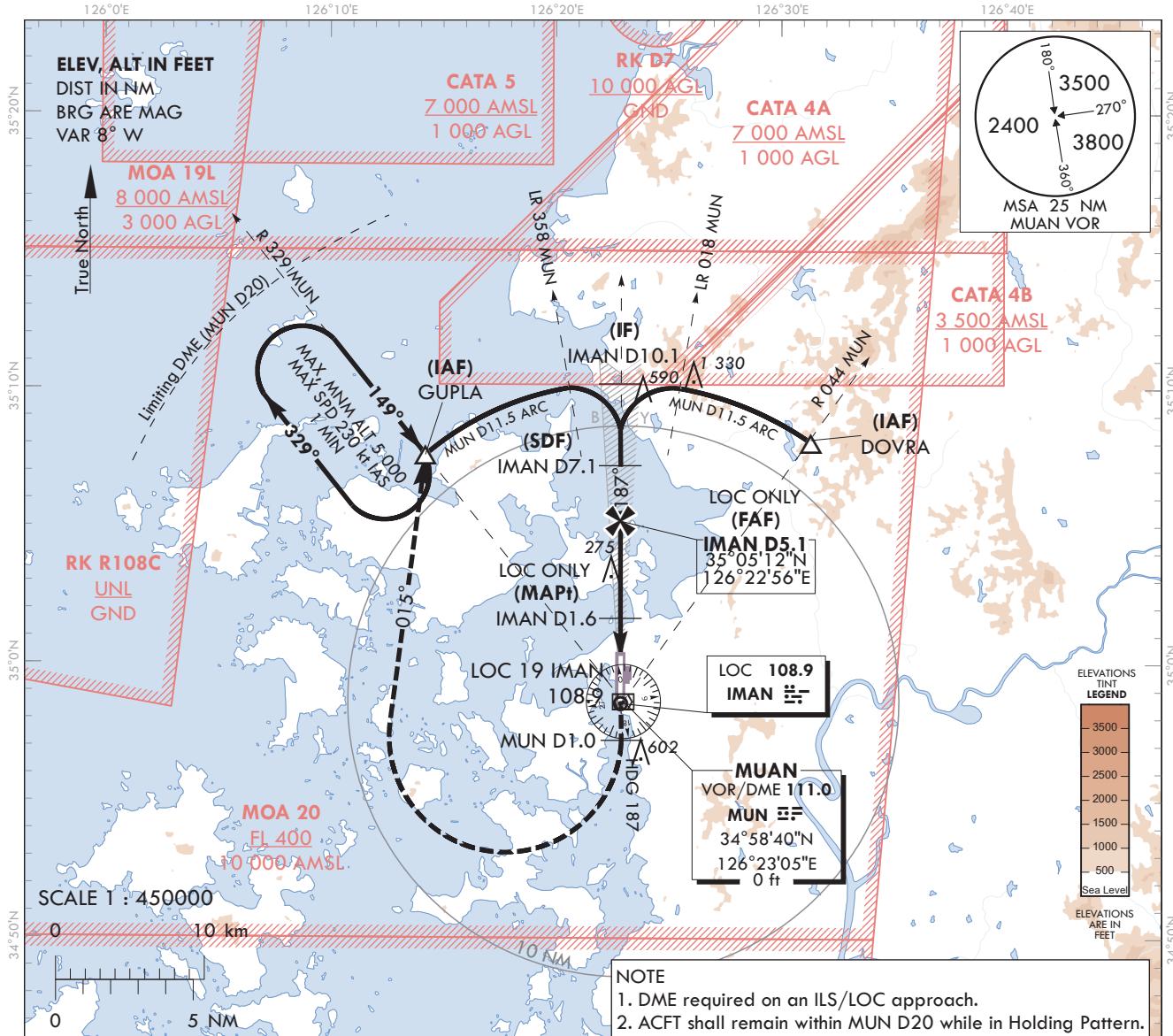
AERODROME ELEV 51 ft
HEIGHTS RELATED TO
THR RWY 19 - ELEV 51 ft

GWANGJU APP	120.475	130.0
	228.9	265.5
MUAN TWR	118.25	118.85

MUAN/Muan Intl(RKJB)

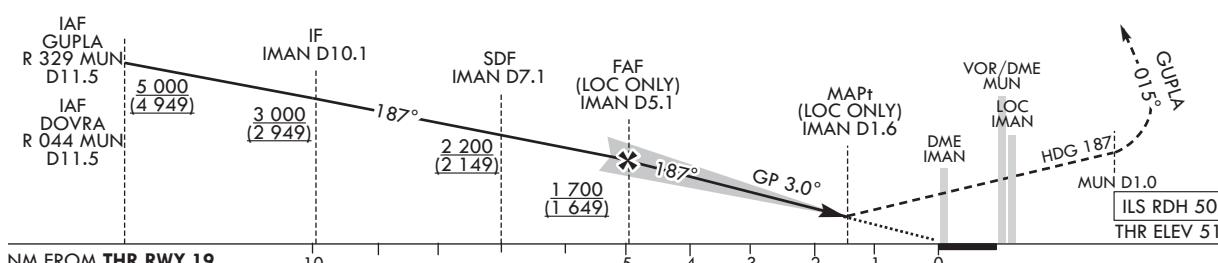
ILS Y or LOC Y RWY 19

Note : Approach under ICAO Flight Procedures.



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)

TRANSITION ALT 14 000
TRANSITION LVL FL 140



OCA (H)		A	B	C	D	Knots	60	90	120	150	180
Straight-in Approach	CAT-I (CG 2.5%)		414 (363)			Rate of descent	V/V fpm	318	478	637	796
	CAT-I (CG 5.0%)		251 (200)					955			
	LOC		590 (539)								

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

Change : Information of landing minima(OCA(H)).

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
CHART - ICAO

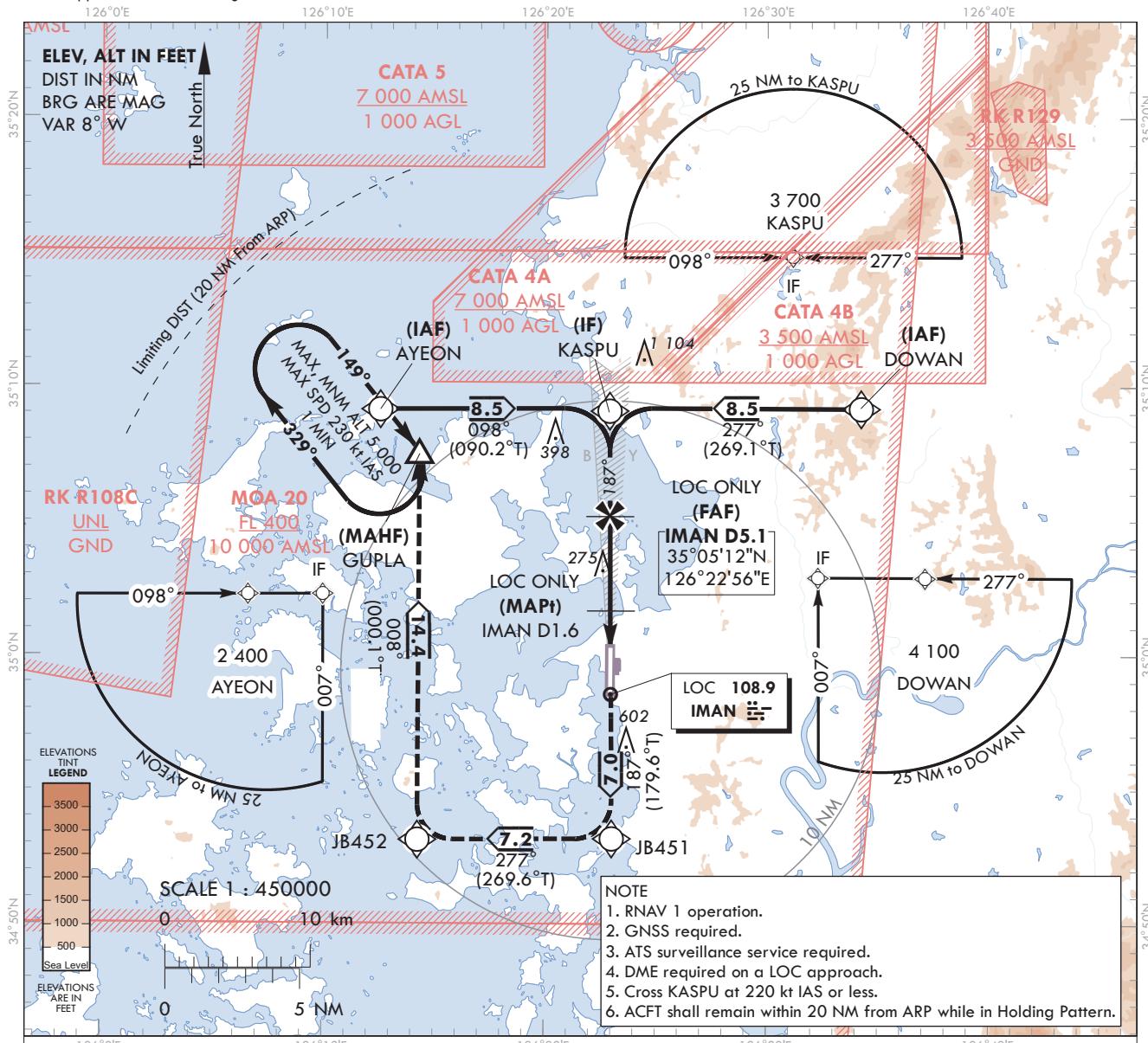
AERODROME ELEV 51 ft
HEIGHTS RELATED TO
THR RWY 19 - ELEV 51 ft

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



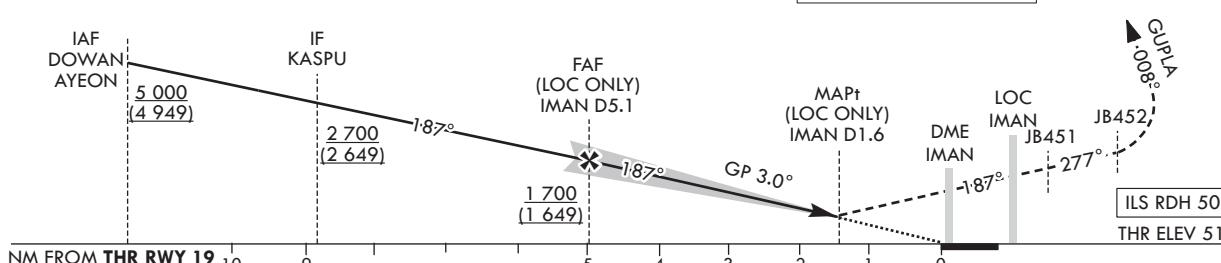
MISSSED APPROACH

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



OCA (H)		A	B	C	D	Knots	60	90	120	150	180
Straight-in Approach	CAT-I (CG 2.5%)		414 (363)			Rate of descent	V/V fpm	318	478	637	796
	CAT-I (CG 5.0%)		251 (200)								955
	LOC		590 (539)								

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

Change : Information of landing minima(OCA(H)).

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

INSTRUMENT
APPROACH
CHART - ICAO

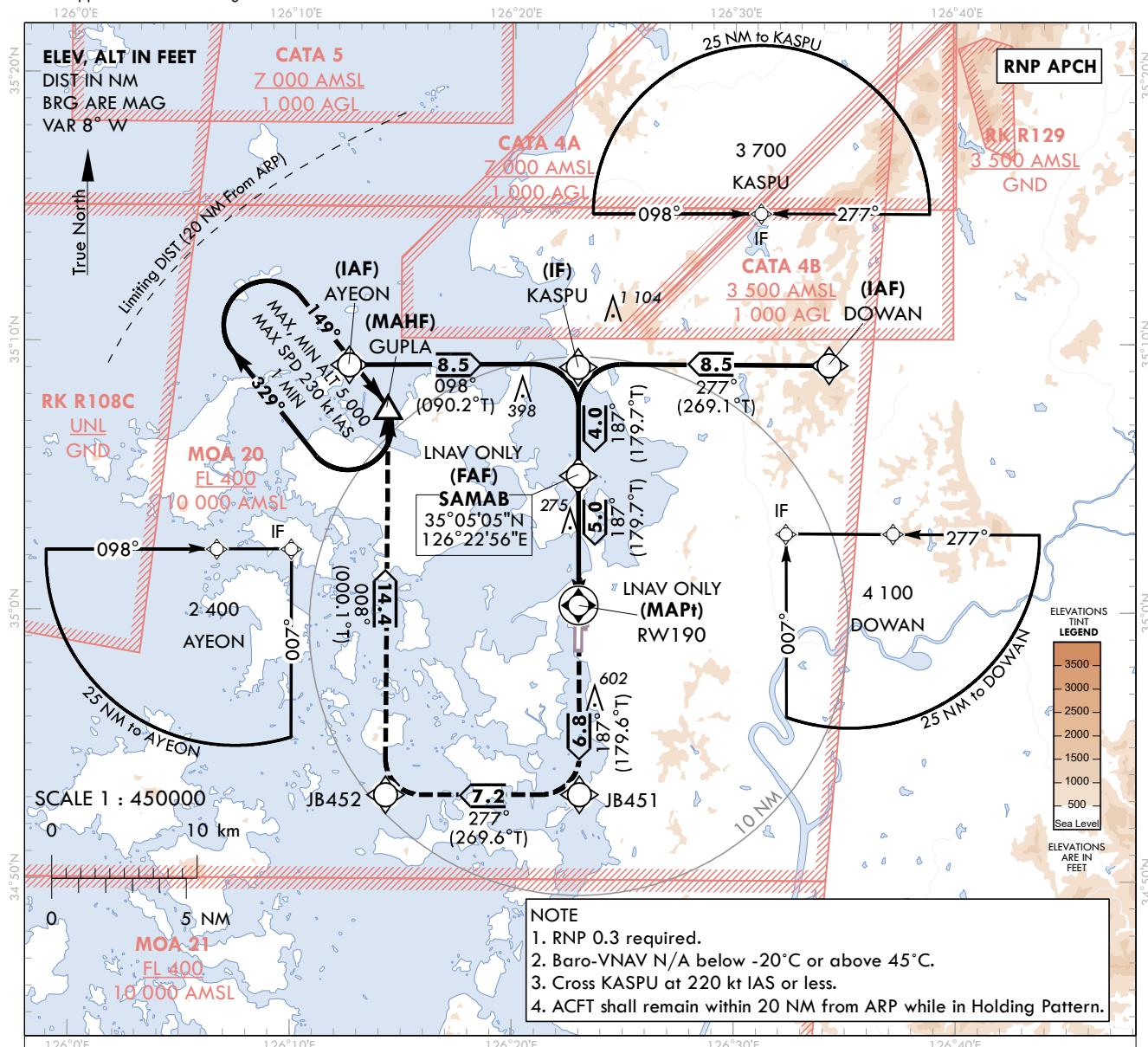
AERODROME ELEV 51 ft
HEIGHTS RELATED TO
THR RWY 19 - ELEV 49 ft

GWANGJU APP	120.475	130.0
	228.9	265.5
MUAN TWR	118.25	118.85

MUAN/Muan Intl(RKJB)

RNP RWY 19

Note : Approach under ICAO Flight Procedures.

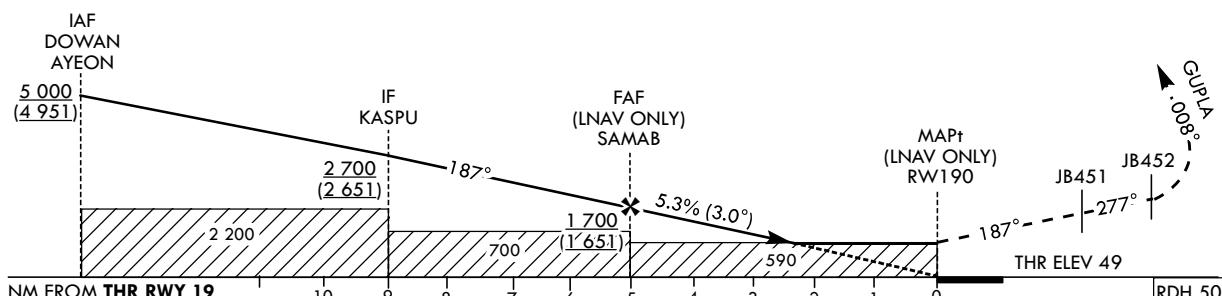


TRANSITION ALT 14 000
TRANSITION LVL FL 140

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.

* Missed approach turns are limited to maximum of 220 kt IAS.



OCA (H)		A	B	C	D	Rate of descent	Knots	60	90	120	150	180
Straight-in Approach	LNAV/VNAV		460 (411)			V/V fpm	320	480	640	800	1280	
	LNAV		590 (541)									* Timing Not authorized for defining MAPt. * Circling Not authorized.

Change : Information of instrument approach procedure for RWY 19, THR ELEV and landing minima(OCA(H)).

MUAN/Muan Intl(RKJB)
RNP RWY 19

AERONAUTICAL DATA TABULATION

Instrument Approach Procedure Coding Tables

RNP RWY 19 - via DOWAN to KASPU(IF)									
Serial Number	Path Descriptor	Waypoint Identifier	Fly-over	Course/Track °N(T)	Distance (NM)	Turn direction	Altitude (ft)	Speed (kt)	Coordinates
001	IF	DOWAN	-	-	-	-	+5 000	-	35°09'16.1"N 126°33'16.0"E
002	TF	KASPU	-	277(269.1)	8.5	-	+2 700	-220	35°09'07.5"N 126°22'54.1"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)	Coordinates
001	IF	AYEON	-	-	-	-	+5 000	-	35°09'10.2"N 126°12'32.1"E
002	TF	KASPU	-	098(090.2)	8.5	-	+2 700	-220	35°09'07.5"N 126°22'54.1"E

RNP RWY 19(LNAV/VNAV or LNAV or VNAV) - 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)	Coordinates
002	TF	KASPU	-	-	-	-	+2 700	-220	35°09'07.5"N 126°22'54.1"E
003	TF	SAMAB	-	187(179.7)	4.0	-	+1 700	-	35°05'05.2"N 126°22'55.8"E
004	TF	RW190	Y	187(179.7)	5.0	-	+590	-	35°00'04.7"E 126°22'57.8"E
005	TF	JB451	-	187(179.6)	6.8	-	-	-220	34°53'13.8"N 126°23'01.0"E
006	TF	JB452	-	277(269.6)	7.2	-	-	-220	34°53'10.9"N 126°14'17.1"E
007	TF	GUPLA	Y	008(000.1)	14.4	-	-	-220	35°07'37.8"N 126°14'18.1"E
008	HM	GUPLA	Y	149(141.1)	-	R	@5 000	-230	35°07'37.8"N 126°14'18.1"E

Change : Information of instrument approach procedure for RWY 19.

INSTRUMENT
APPROACH
CHART - ICAO

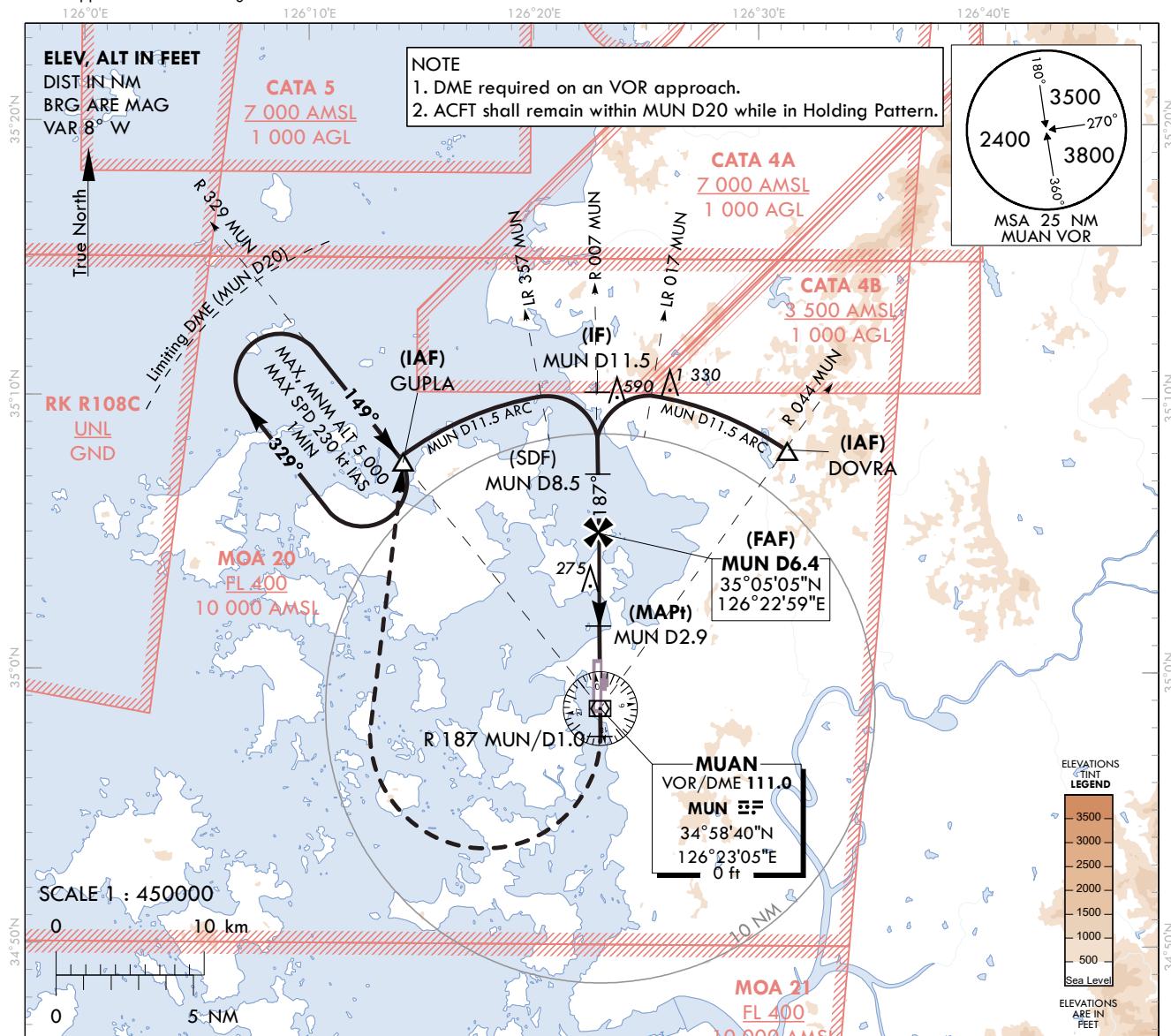
Note : Approach under ICAO Flight Procedures.

AERODROME ELEV 51 ft
HEIGHTS RELATED TO
THR RWY 19 - ELEV 49 ft

GWANGJU APP	120.475	130.0
	228.9	265.5
MUAN TWR	118.25	118.85

MUAN/Muan Intl(RKJB)

VOR RWY 19

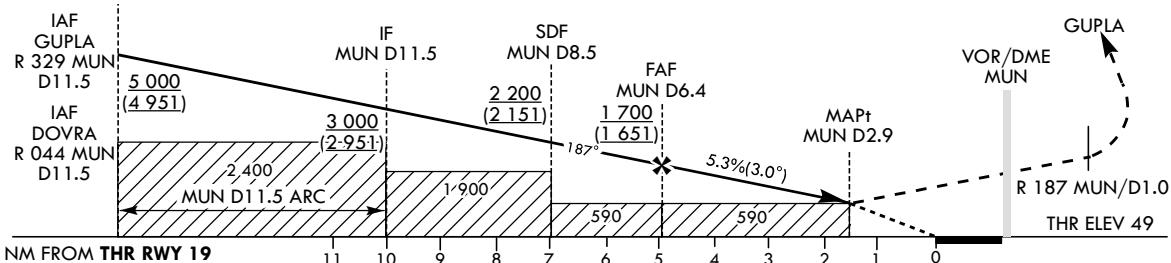


RECOMMENDED PROFILE	DME MUN	6	5	4	3
Final Approach Gradient 5.28%, 321 ft/NM	ALT(HGT)	1 572 (1 523)	1 251 (1 202)	930 (881)	609 (560)

MISSSED APPROACH

Climb straight ahead until MUN to intercept R 187 MUN/D1 turn right direct to GUPLA and Hold at 5 000 ft.

TRANSITION ALT 14 000
TRANSITION LVL FL 140



OCA (H)	A	B	C	D	Knots	60	90	120	150	180	
					Rate of descent	V/V fpm	321	481	642	802	963
Straight-in Approach				590 (541)							

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

Change : Information of instrument approach procedure for RWY 19, THR ELEV and landing minima(OCA(H)).

MUAN/Muan Intl(RKJB)
VOR RWY 19

AERONAUTICAL DATA TABULATION

VOR Approach to RWY 19 from GUPLA(IAF) or DOVRA(IAF)			
Fix/point	Coordinates		
GUPLA(IAF)	BRG 328.99°/11.5 NM MUN	35°07'37.8"N	126°14'18.1"E
DOVRA(IAF)	BRG 043.99° /11.5 NM MUN	35°07'57.8"N	126°31'22.0"E
D11.5 MUN(IF)	BRG 006.98°/11.5 NM MUN	35°10'11.0"N	126°22'53.1"E
D8.5 MUN(SDF)	BRG 007.00°/8.5 NM MUN	35°07'10.7"N	126°22'56.4"E
D6.4 MUN(FAF)	BRG 007.01°/6.4 NM MUN	35°05'04.5"N	126°22'58.8"E
D2.9 MUN(MAPt)	BRG 007.09°/2.9 NM MUN	35°01'34.2"N	126°23'02.7"E
THR RWY 19	Final approach descent angle 3.02°	35°00'04.76"N	126°22'57.88"E
MUN VOR/DME		34°58'40.0"N	126°23'05.4"E
D1.0 MUN	BRG 187.11/1.0 NM MUN	34°57'39.9"N	126°23'06.3"E
GUPLA	BRG 328.99°/11.5 NM MUN	35°07'37.8"N	126°14'18.1"E

Change : Information of instrument approach procedure for RWY 19.