

INSTRUMENT  
APPROACH  
CHART - ICAO

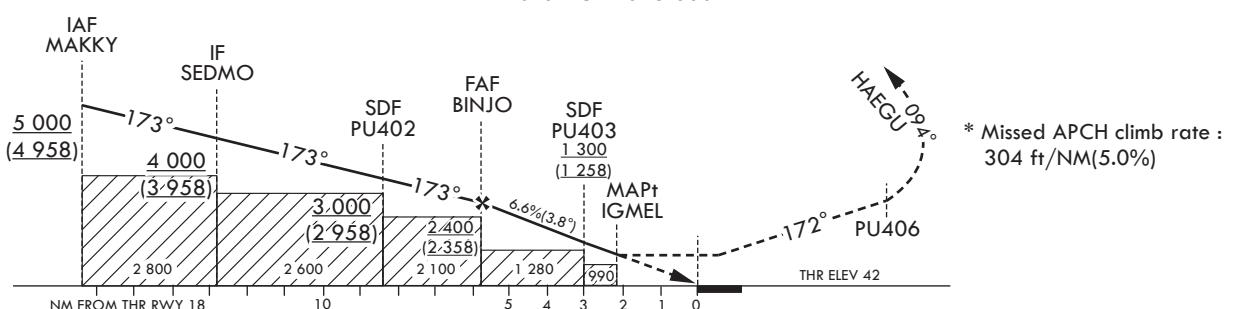
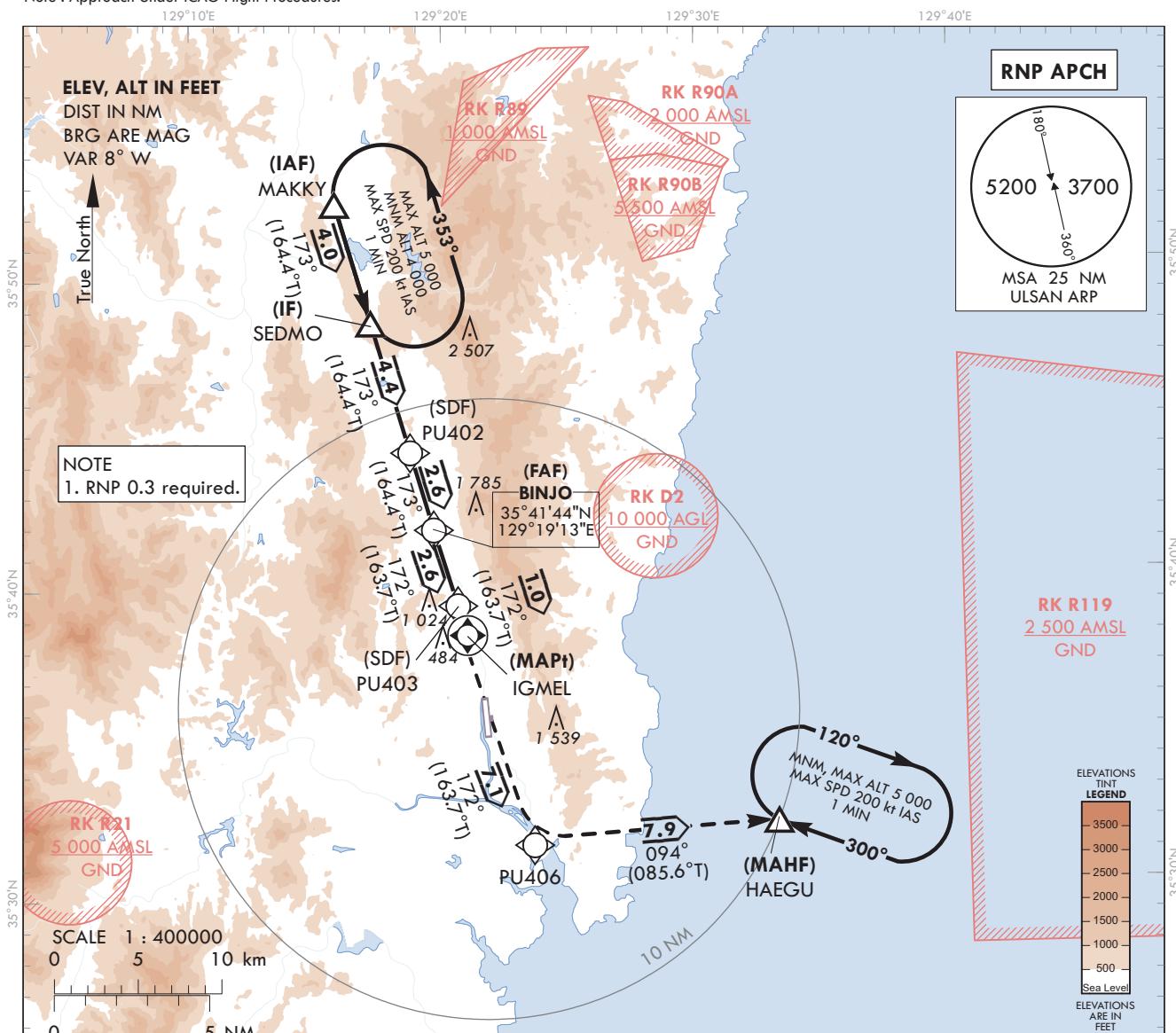
Note : Approach Under ICAO Flight Procedures.

AERODROME ELEV 42 ft  
HEIGHTS RELATED TO  
THR RWY 18 - ELEV 42 ft

POHANG	APP	124.25
	TWR	120.2
ULSAN		118.75

ULSAN/Ulsan(RKPU)

RNP Y RWY 18



STA	LNAV	CATEGORY	MDA(H)	A	B	C	D	Rate of descent	Knots	60	90	120	150	180				
									V/V fpm	400	600	800	1 000	1 200				
FULL		3 600 m	990 (948)	3 900 m	N/A	* Timing Not authorized for defining MAPt.	* Circling Not authorized.		60	90	120	150	180					
									400	600	800	1 000	1 200					
ALS INOP		4 000 m		4 300 m	N/A													

Change : Improved clarity such as terrain.

ULSAN/Ulsan(RKPU)  
RNP Y RWY 18  
HOLDING PROCEDURE

## AERONAUTICAL DATA TABULATION

## Instrument Approach Procedure Coding Tables

RNP Y RWY 18										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-over	Course/Track $^{\circ} N(\text{M}^{\circ})$	Distance (NM)	Turn direction	Altitude (ft)	Speed (kt)	Coordinates	
001	IF	MAKKY	-	-	-	+5 000	-	35°52'18.8"N 129°15'35.8"E	- RNP APCH IAF	
002	TF	SEDMO	-	173(164.4)	4.0	-	+4 000	-	35°48'27.1"N 129°16'55.0"E	- RNP APCH IF
003	TF	PU402	-	173(164.4)	4.4	-	+3 000	-	35°44'14.2"N 129°18'21.4"E	- RNP APCH SDF
004	TF	BINJO	-	173(164.4)	2.6	-	+2 400	-	35°41'43.5"N 129°19'12.8"E	- RNP APCH FAF
005	TF	PU403	-	172(163.7)	2.6	-	+1 300	-	35°39'15.5"N 129°20'05.6"E	- RNP APCH SDF
006	TF	IGMEL	Y	172(163.7)	1.0	-	+990	-	35°38'17.7"N 129°20'26.4"E	-3.77/50 RNP APCH MAP†
007	TF	PU406	-	172(163.7)	7.1	-	-	-	35°31'29.1"N 129°22'52.3"E	- RNP APCH -
008	TF	HAEGU	Y	094(085.6)	7.9	-	-	-	35°32'06.7"N 129°32'32.3"E	- RNP APCH -
009	HM	HAEGU	Y	300 (292.1)	-	R	@5 000	-200	35°32'06.7"N 129°32'32.3"E	- RNP APCH 1 min (Outbound timing)

## HOLDING PROCEDURE

Holding Identification	Path Descriptor	Waypoint Identifier	Fly-over	Course/Track $^{\circ} M(T)$	Time (min)	Turn direction	Altitude (ft)	Speed (kt)	Coordinates	VPA/RDH	Navigation specification	Remarks
RNP Y RWY 18	HM	SEDMO	Y	173(164.4)	1.0	L	-5 000	-200	35°48'27.1"N 129°16'55.0"E	- RNAV 1	-	-

INSTRUMENT  
APPROACH  
CHART - ICAO

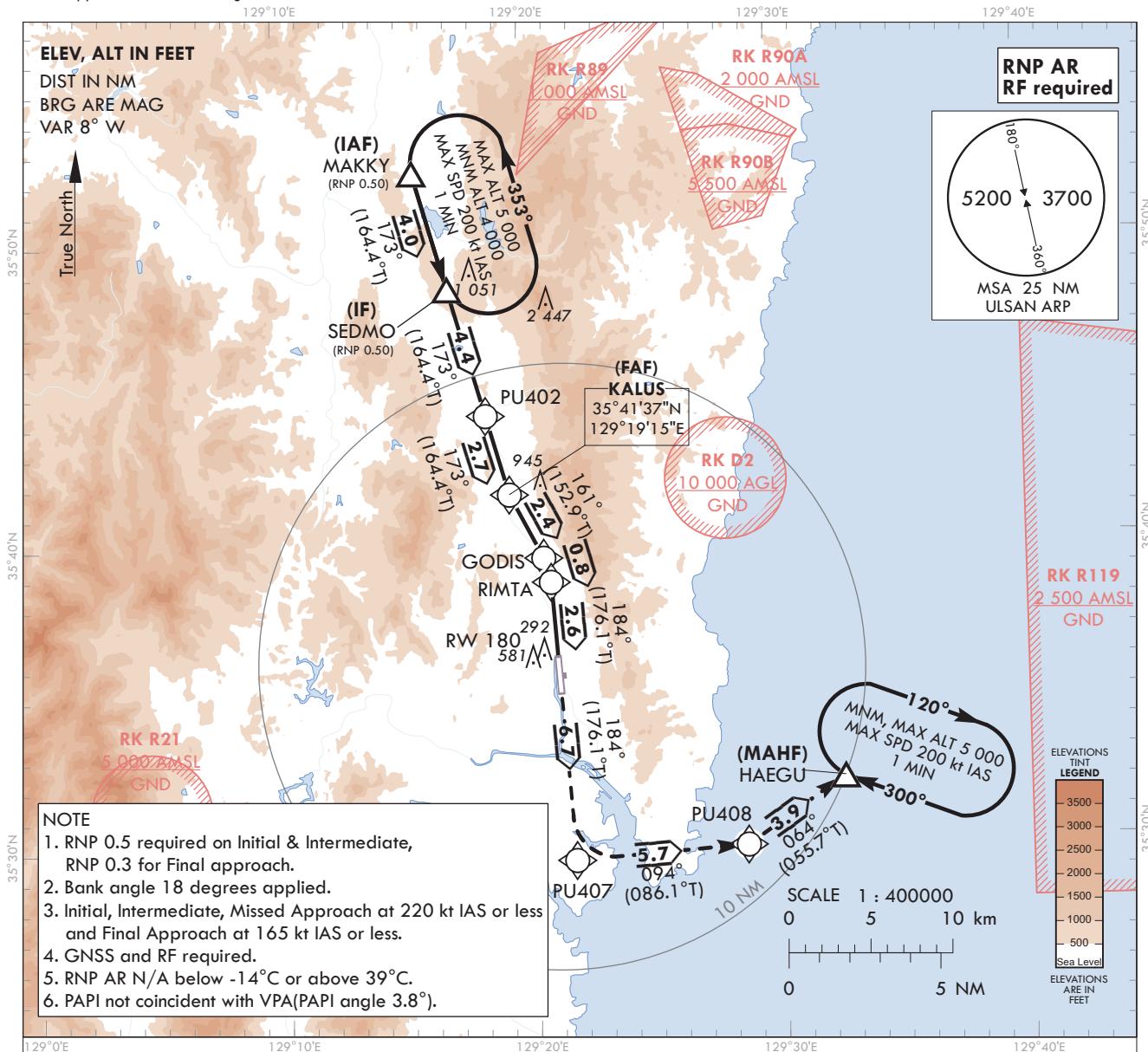
AERODROME ELEV 42 ft  
HEIGHTS RELATED TO  
THR RWY 18 - ELEV 42 ft

POHANG	APP	124.25
	TWR	120.2
ULSAN		118.75

ULSAN/Ulsan(RKPU)

RNP Z RWY 18(AR)

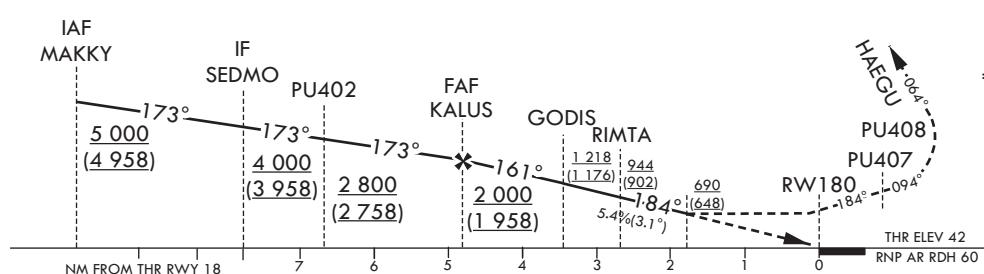
Note : Approach Under ICAO Flight Procedures.



**MISSED APPROACH**

Climb on track of 184° to PU407 then LEFT turn on track of 094° to PU408 then LEFT turn on track of 064° to HAEGU and Hold at 5 000 ft.  
\* DA to RW180 1.8 NM.

TRANSITION ALT 14 000  
TRANSITION LVL FL 140



CATEGORY	DA(H)	A	B	C	D	Rate of descent	Knots	60	90	120	150	180	
							V/V fpm	329	494	658	823	987	
RNP 0.3	FULL	690	3 100 m			* Timing Not authorized for defining MAPt. * Circling Not authorized.							
	ALL INOP		(648)	3 400 m									

Change : Improved clarity such as terrain.

ULSAN/Ulsan(RKPU)  
RNP Z RWY 18 (AR)

## AERONAUTICAL DATA TABULATION

## Instrument Approach Procedure Coding Tables

RNP Z RWY 18 (AR)									
Serial Number	Path Descriptor	Waypoint Identifier	Fly-over	Course/Track ° N(°T)	Distance (NM)	Turn direction	Altitude (ft)	Speed (kt)	Coordinates
001	IF	MAKKY	-	-	-	+5 000	-220	35°5'2"18.8"N 129°15'35.8"E	-
002	TF	SEDMO	-	173(164.4)	4.0	-	+4 000	35°48'27.1"N 129°16'55.0"E	-
003	TF	PU402	-	173(164.4)	4.4	-	+2 800	35°44'14.2"N 129°18'21.4"E	-
004	TF	KALUS	-	173(164.4)	2.7	-	+2 000	35°41'37.4"N 129°19'14.9"E	0.5
005	TF	GODIS	-	161(152.9)	2.4	L	+1 218	35°39'30.7"N 129°20'34.3"E	0.3
006	RF Center: ARCO1 r=2.08 NM	RIMTA	-	0.8	R	+944	-165	35°38'42.4"N 129°20'50.7"E	0.3
007	TF	RW180	Y	184(176.1)	2.6	-	-165	35°36'08.9"N 129°21'03.5"E	-3.10/60
008	TF	PU407	-	184(176.1)	6.7	-	-220	35°29'30.2"N 129°21'36.8"E	-
009	TF	PU408	-	094(086.1)	5.7	L	-220	35°29'53.2"N 129°28'33.2"E	1.0
010	TF	HAEGU	Y	064(055.7)	3.9	L	+5 000	35°32'06.7"N 129°32'33.3"E	1.0
011	HM	HAEGU	Y	300(292.1)	-	R	@5 000	35°32'06.7"N 129°32'33.3"E	RNP APCH 1 min (Outbound timing)

RF arc center identifier	Coordinates
ARC01	35°38'33.8"N 129°18.0"E

INSTRUMENT  
APPROACH  
CHART - ICAO

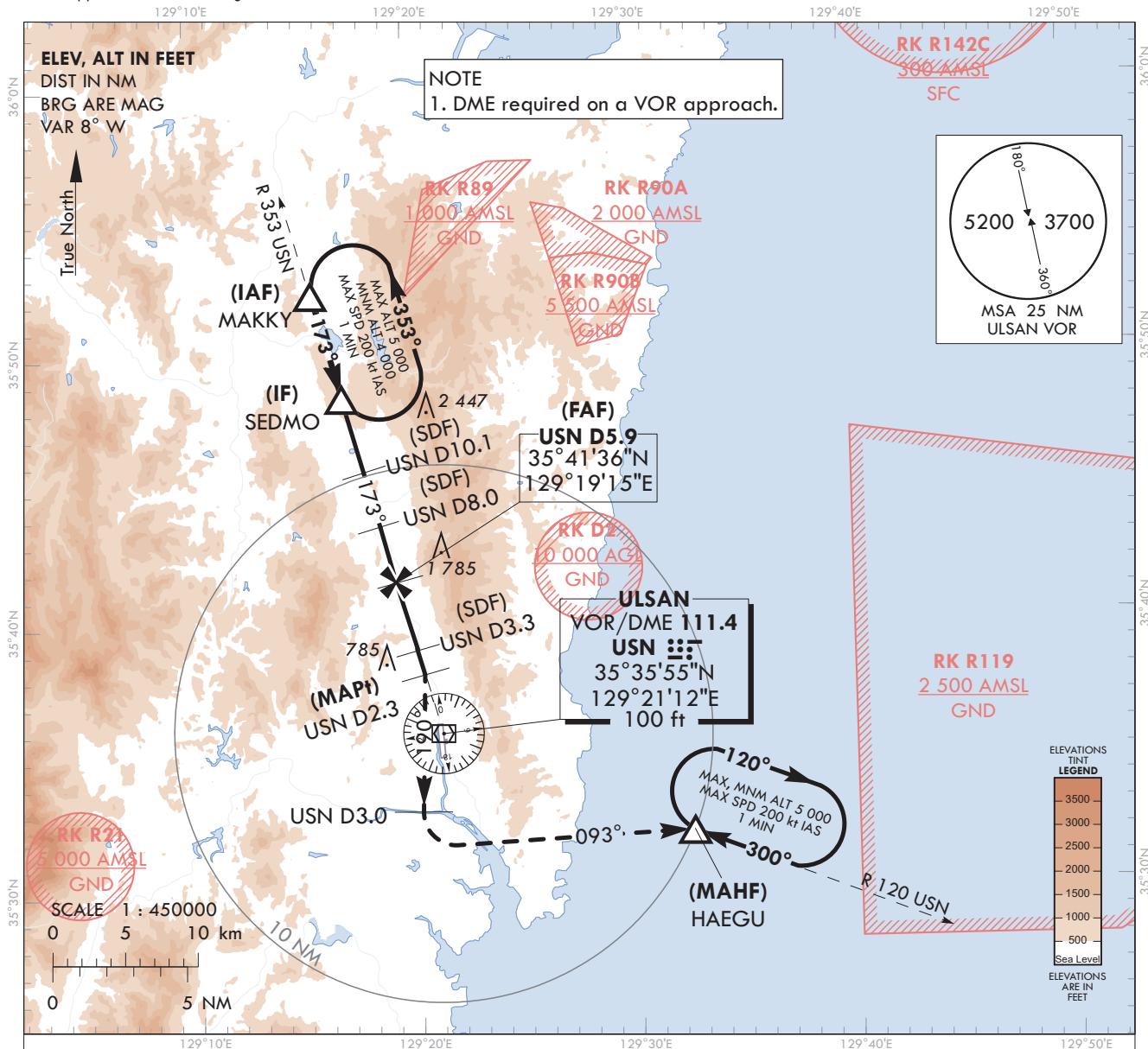
AERODROME ELEV 42 ft  
HEIGHTS RELATED TO  
THR RWY 18 - ELEV 42 ft

POHANG	APP	124.25
		120.2
ULSAN	TWR	118.75

ULSAN/Ulsan(RKPU)

VOR RWY 18

Note : Approach Under ICAO Flight Procedures.



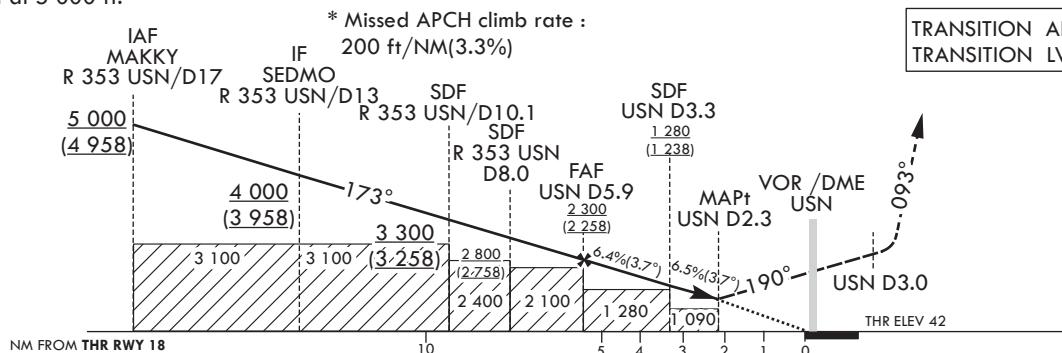
**MISSSED APPROACH**

Climb on HDG 190° to USN 3 DME, then LEFT turn direct to HAEGU and Hold at 5 000 ft.

RECOMMENDED PROFILE(FAA)

DME USN	5	4	3	2.8
Final Approach Gradient 6.45%, 392 ft/NM ALT(HGT)	1 947 (1 906)	1 556 (1 514)	1 164 (1 122)	1 080 (1 038)

TRANSITION ALT 14 000  
TRANSITION LVL FL 140



CATEGORY	MDA(MDH)	A	B	C	D	Knots	60	90	120	150	180
STA	FULL	1 090 (1 048)	3 600 m	4 600 m	N/A	Rate of descent	V/V fpm	392	588	784	980
	ALS INOP		4 000 m	4 900 m	N/A						

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

Change : Improved clarity such as terrain.

ULSAN/Ulsan(RKPU)  
VOR RWY 18

## AERONAUTICAL DATA TABULATION

VOR Approach to RWY 18 from MAKKY			
Fix/point	Coordinates		
MAKKY(IAF)	R 353 USN / 17.00 NM USN	35°52'18.8"N	129°15'35.8"E
SEDMO(IF)	BRG 172.64° / 13.00 NM USN	35°48'27.1"N	129°16'55.0"E
D10.1 USN(SDF)	BRG 172.64° / 10.10 NM USN	35°45'39.1"N	129°17'51.8"E
D8.0 USN(SDF)	BRG 172.64° / 8.00 NM USN	35°43'37.6"N	129°18'33.5"E
D5.9 USN(FAF)	BRG 172.64° / 5.90 NM USN	35°41'36.0"N	129°19'15.1"E
D3.3 USN(SDF)	BRG 172.64° / 3.28 NM USN	35°39'04.4"N	129°20'07.0"E
D2.3 USN(MAPt)	BRG 172.64° / 2.26 NM USN	35°38'05.4"N	129°20'27.1"E
THR RWY 18	Final approach descent angle 3.67°(FAF-SDF) / 3.71°(SDF-THR)	35°36'08.89"N	129°21'03.54"E
USN VOR/DME		35°35'54.6"N	129°21'11.8"E
D3.0 USN	BRG 190.62° / 3.00 NM USN	35°33'01.3"N	129°20'11.6"E
HAEGU	BRG 93.43° / 10.00 NM USN	35°32'06.7"N	129°32'32.3"E

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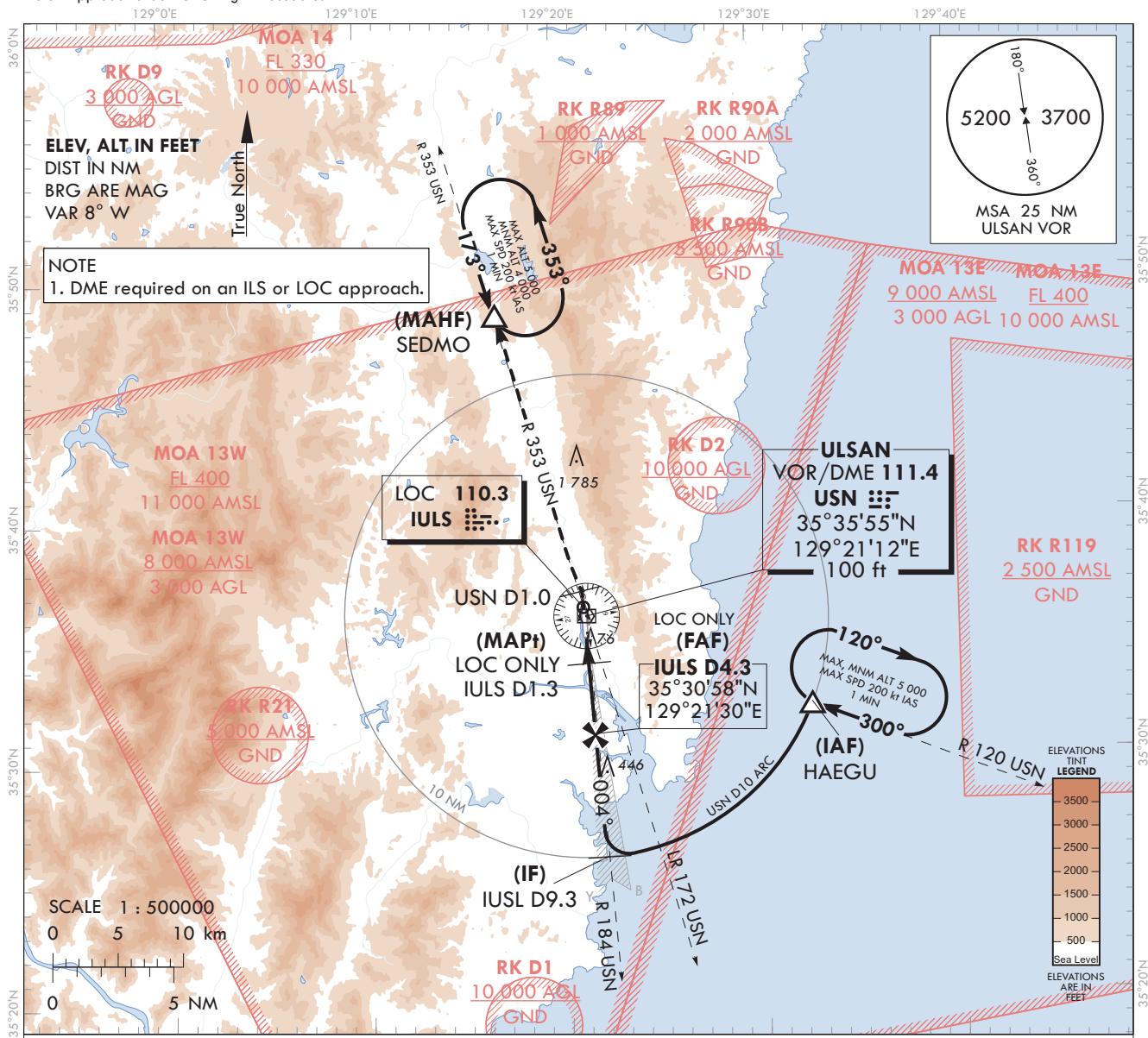
Note : Approach under ICAO Flight Procedures.

AERODROME ELEV 42 ft  
HEIGHTS RELATED TO  
THR RWY 36 - ELEV 28 ft

POHANG	APP	124.25
		120.2
ULSAN	TWR	118.75

ULSAN/Ulsan(RKPU)

ILS Y or LOC Y RWY 36



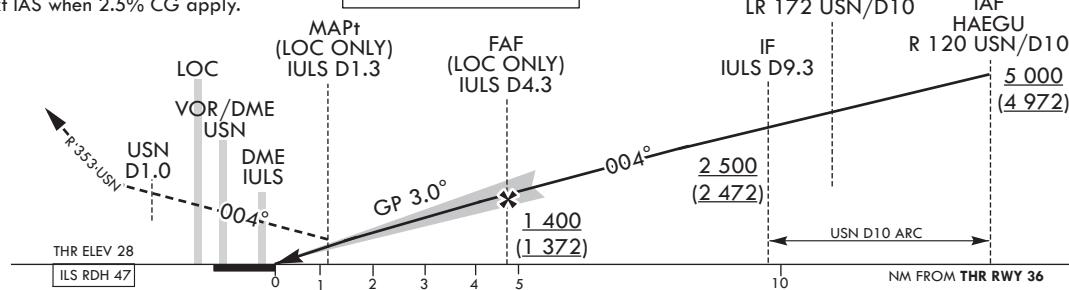
MISSED APPROACH

Climb on HDG 004° to USN 1 DME, then LEFT turn to intercept R 353 USN to SEDMO. Hold at SEDMO at 4 000 ft.

\* Missed APCH turn limited to MAX 200 kt IAS when 2.5% CG apply.

RECOMMENDED PROFILE(LOC ONLY)	DME IULS	6	5	4	3	2.3
Final Approach Gradient 5.28%, 321 ft/NM	ALT(HGT)	1 950 (1 922)	1 620 (1 592)	1 300 (1 272)	980 (952)	750 (722)

TRANSITION ALT	14 000
TRANSITION LVL	FL 140



CATEGORY		DA(DH)/MDA(MDH)	A	B	C	D	Knots	60	90	120	150	180	
STA	CAT-I (CG 2.5%)	FULL	710 (682)	3 000m			Rate of descent	V/V fpm		318	478	637	
		ALS INOP		3 700m				796		955			
	CAT-I (CG 5.0%)	FULL	246 (218)	800m				Timing Not authorized for defining MAPt.					
		ALS INOP		1 200m				Circling Not authorized.					
LOC		FULL	750 (722)	2 700m									
		ALS INOP		3 400m									

Change : Improved clarity such as terrain.

ULSAN/Ulsan(RKPU)  
ILS Y or LOC Y RWY 36

## AERONAUTICAL DATA TABULATION

ILS Y / LOC Y Approach to RWY 36 from HAEGU		
Fix/point	Coordinates	
HAEGU(IAF)	R 120 USN / 10.00 NM USN	35°32'06.7"N 129°32'32.3"E
D9.3 IULS(IF)	BRG 4.31° / 9.30 NM IULS	35°25'54.7"N 129°21'54.8"E
D4.3 IULS(FAF LOC ONLY)	BRG 4.31° / 4.30 NM IULS	35°30'57.6"N 129°21'29.5"E
D1.3 IULS(MAPt LOC ONLY)	BRG 4.31° / 1.30 NM IULS	35°33'55.7"N 129°21'14.7"E
THR RWY 36	Final approach descent angle 2.90° (LOC ONLY)	35°35'04.15"N 129°21'08.95"E
IULS DME		35°35'13.8"N 129°21'12.2"E
USN VOR/DME		35°35'54.6"N 129°21'11.8"E
IULS LOC		35°36'16.3"N 129°21'02.9"E
D1.0 USN	BRG 4.31° / 1.00 NM USN	35°36'53.8"N 129°20'59.8"E
SEDMO	BRG 352.68° / 13.00 NM USN	35°48'27.1"N 129°16'55.0"E

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APPROACH  
CHART - ICAO

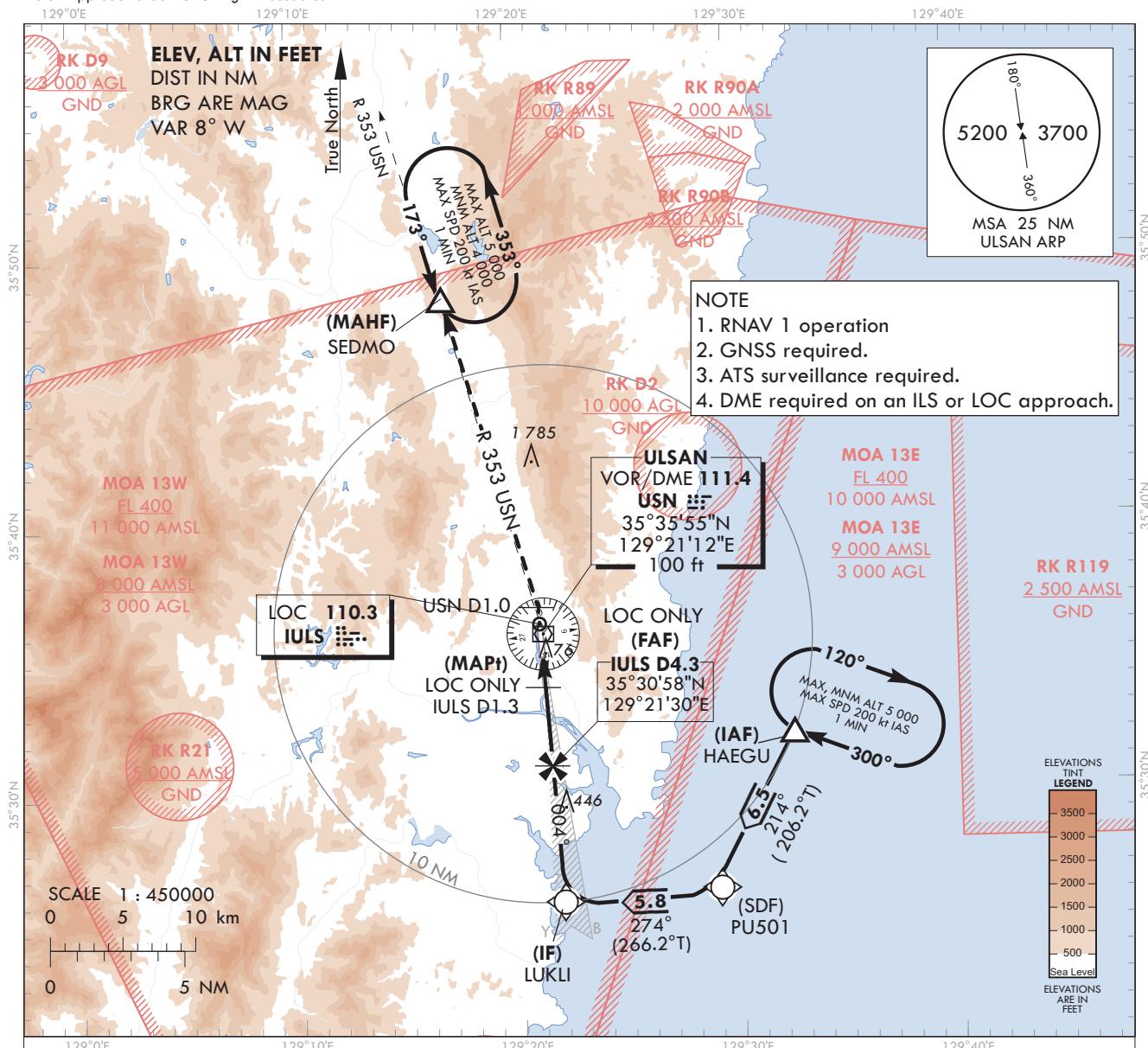
Note : Approach under ICAO Flight Procedures.

AERODROME ELEV 42 ft  
HEIGHTS RELATED TO  
THR RWY 36 - ELEV 28 ft

POHANG	APP	124.25
		120.2
ULSAN	TWR	118.75

ULSAN/Ulsan(RKPU)

ILS Z or LOC Z RWY 36



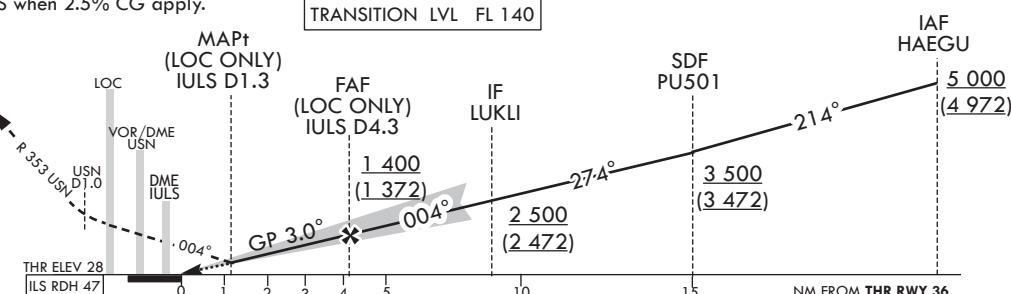
MISSSED APPROACH

Climb on HDG 004° to USN 1 DME, then LEFT turn to intercept R 353 USN to SEDMO.  
Hold at SEDMO at 4 000 ft.

\* Missed APCH turn limited to  
MAX 200 ktIAS when 2.5% CG apply.

RECOMMENDED PROFILE(LOC ONLY)		DME IULS	6	5	4	3	2.3
Final Approach Gradient 5.28%, 321 ft/NM		ALT(HGT)	1 950 (1 922)	1 620 (1 592)	1 300 (1 272)	980 (952)	750 (722)

TRANSITION ALT 14 000  
TRANSITION LVL FL 140



CATEGORY		DA(DH)/ MDA(MDH)	A	B	C	D	Knots	60	90	120	150	180					
STA	CAT-I (CG 2.5%)	FULL ALS INOP	710 (682)		3 000 m		Rate of descent	V/V fpm	318	478	637	796	955				
	CAT-I (CG 5.0%)	FULL ALS INOP	246 (218)		3 700 m												
	LOC	FULL ALS INOP	750 (722)		800 m												
				1 200 m			*Timing Not authorized for defining MAPt. *Circling Not authorized.										
				2 700 m													
				3 400 m													

Change : Improved clarity such as terrain.

ULSAN/Ulsan(RKPU)  
ILS Z or LOC Z RWY 36

## AERONAUTICAL DATA TABULATION

ILS Z / LOC Z Approach to RWY 36 from HAEGU			
Fix/point		Coordinates	
HAEGU(IAF)		35°32'06.7"N	129°32'32.3"E
PU501(SDF)		35°26'18.1"N	129°29'02.9"E
LUKLI(IF)	BRG 4.31° / 9.30 NM IULS	35°25'54.4"N	129°21'54.8"E
D4.3 IULS(FAF LOC ONLY)	BRG 4.31° / 4.30 NM IULS	35°30'57.6"N	129°21'29.5"E
D1.3 IULS(MAPt LOC ONLY)	BRG 4.31° / 1.30 NM IULS	35°33'55.7"N	129°21'14.7"E
THR RWY 36	Final approach descent angle 2.90° (LOC ONLY)	35°35'04.15"N	129°21'08.95"E
IULS DME		35°35'13.8"N	129°21'12.2"E
USN VOR/DME		35°35'54.6"N	129°21'11.8"E
IULS LOC		35°36'16.3"N	129°21'02.9"E
D1.0 USN	BRG 4.31° / 1.00 NM USN	35°36'53.8"N	129°20'59.8"E
SEDMO	BRG 352.68° / 13.00 NM USN	35°48'27.1"N	129°16'55.0"E

INSTRUMENT  
APPROACH  
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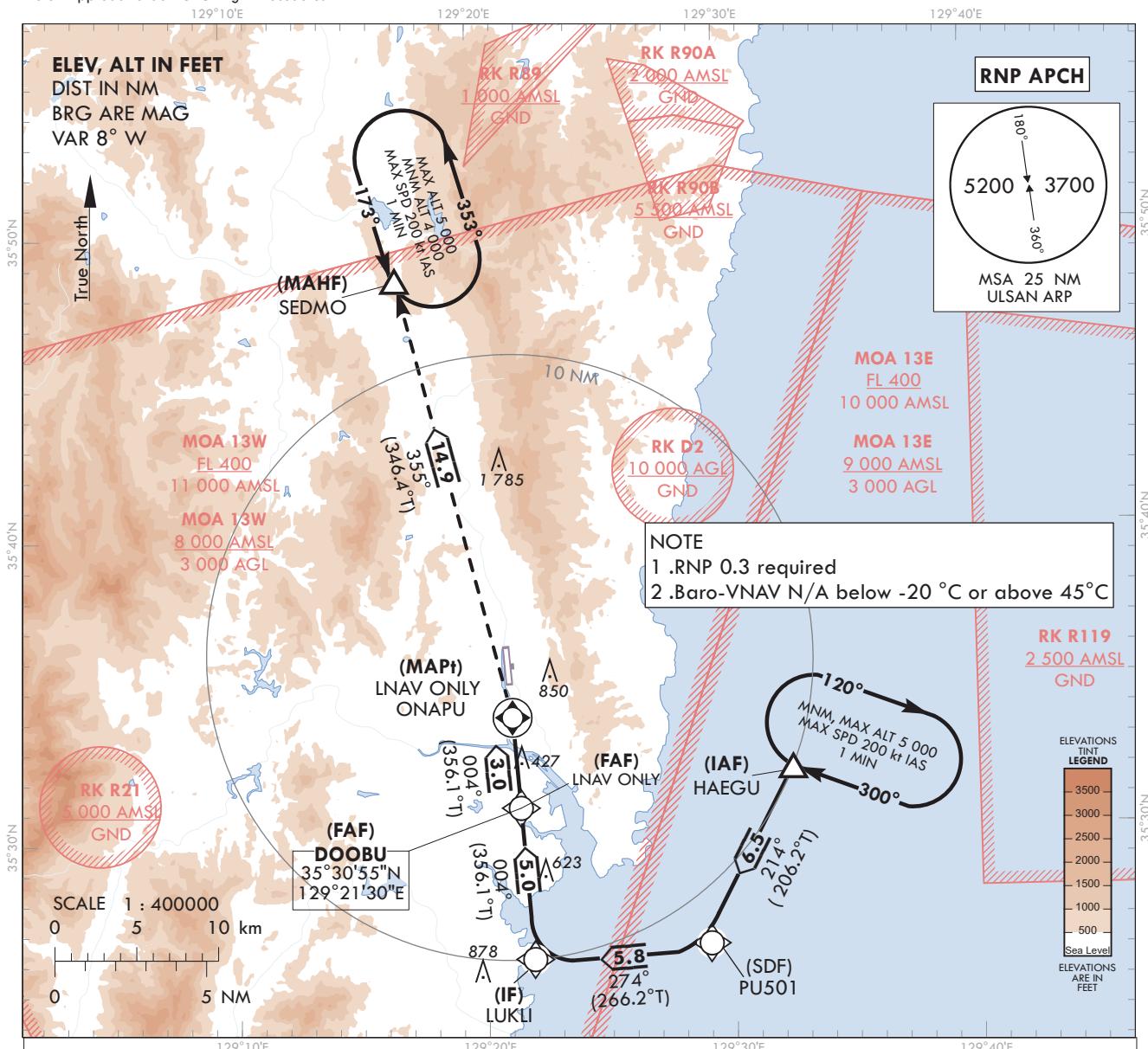
Note : Approach under ICAO Flight Procedures.

AERODROME ELEV 42 ft  
HEIGHTS RELATED TO  
THR RWY 36 - ELEV 28 ft

POHANG	APP	124.25
	TWR	120.2
ULSAN		118.75

ULSAN/Ulsan(RKPU)

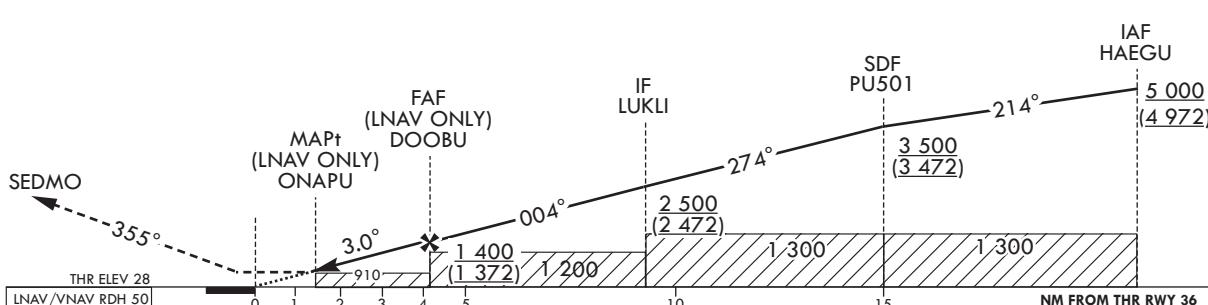
RNP RWY 36



TRANSITION ALT 14 000  
TRANSITION LVL FL 140

**MISSSED APPROACH**

Climb to 4 000 ft on track of 355° to SEDMO.  
Hold as published.



CATEGORY		DA(H)/MDA(H)	A	B	C	D	Rate of descent	Knots	60	90	120	150	180
STA	LNAV/VNAV	FULL	760	2 700 m			V/V fpm	319	478	637	796	956	
		ALS INOP	(732)	3 400 m									
	LNAV	FULL	910	3 300 m									
		ALS INOP	(882)	4 000 m									

\* Timing Not authorized for defining MAPt.

\* Circling Not authorized.

Change : Improved clarity such as terrain.

ULSAN/Ulsan(RKPU)  
RNP RWY 36  
HOLDING PROCEDURE

## AERONAUTICAL DATA TABULATION

## Instrument Approach Procedure Coding Tables

RNP RWY 36									
Serial Number	Path Descriptor	Waypoint Identifier	Fly-over	Course/Track °N(°T)	Distance (NM)	Turn direction	Altitude (ft)	Speed (kt)	Coordinates
001	IF	HAEGU	-	-	-	-	+5 000	-	35°32'06.7"N 129°32'32.3"E
002	TF	PUS01	-	21.4(206.2)	6.5	-	+3 500	-	35°26'18.1"N 129°29'02.9"E
003	TF	LUKLI	-	27.4(266.2)	5.8	-	+2 500	-	35°25'54.4"N 129°21'54.8"E
004	TF	DOOBU	-	004(356.1)	5.0	-	+1 400	-	35°30'55.3"N 129°21'29.7"E
005	TF	ONAPU	Y	004(356.1)	3.0	-	+910	-	35°33'54.4"N 129°21'14.8"E
006	TF	SEDMO	Y	355(346.4)	14.9	-	-	-	35°48'27.1"N 129°16'55.0"E
007	HM	SEDMO	Y	173 (164.4)	-	-	-5 000 +4 000	-	35°48'27.1"N 129°16'55.0"E
									1 min (Outbound timing)

## HOLDING PROCEDURE

Holding Identification	Path Descriptor	Waypoint Identifier	Fly-over	Course/Track °M(°T)	Time (min)	Turn direction	Altitude (ft)	Speed (kt)	Coordinates	VPA/RDH	Navigation specification	Remarks
RNP RWY 36	HM	HAEGU	Y	300 (92.1)	1.0	R	@5 000	-200	35°32'06.7"N 129°32'32.3"E	-	RNAV 1	-

INSTRUMENT  
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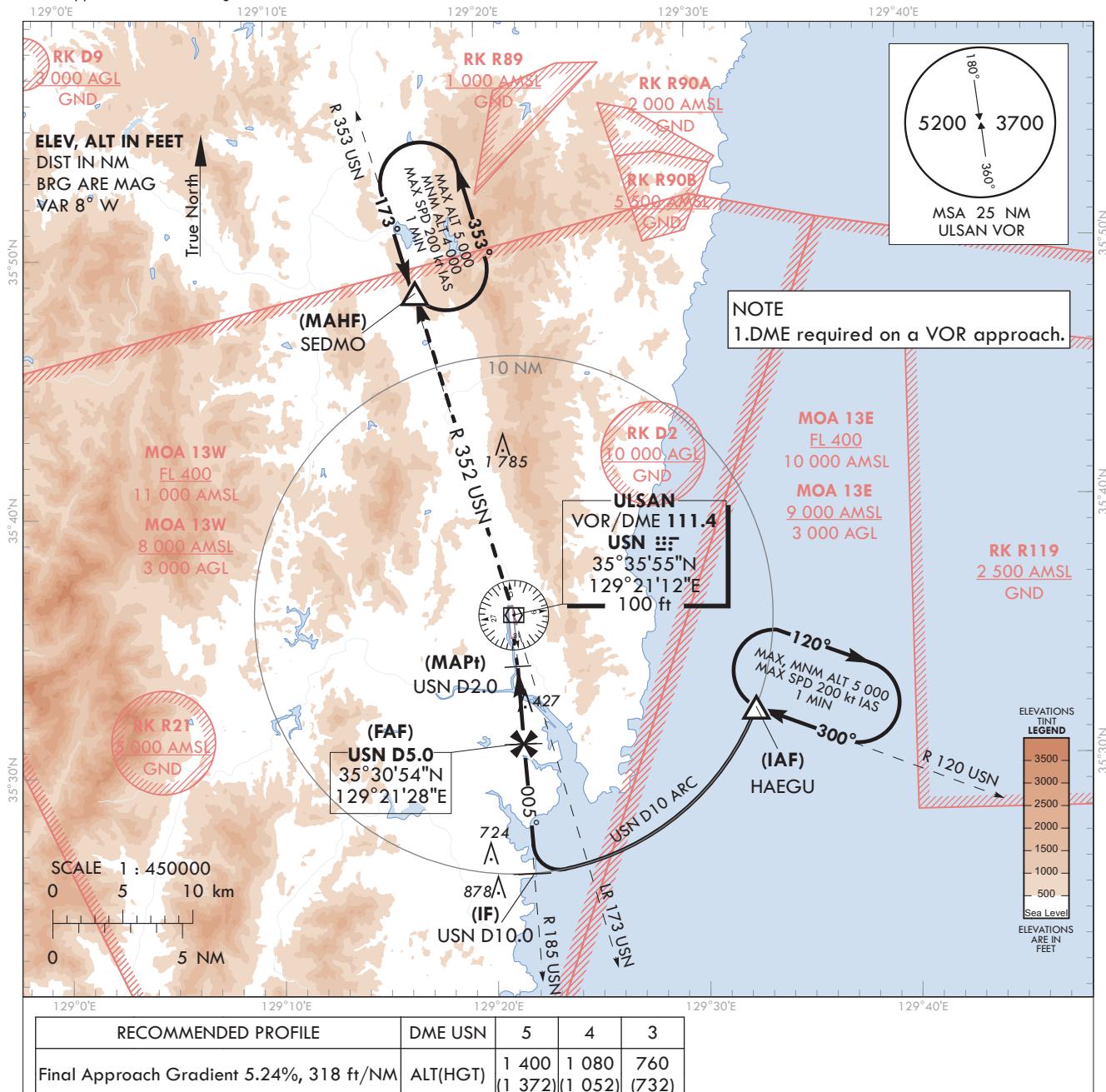
AERODROME ELEV 42 ft  
HEIGHTS RELATED TO  
THR RWY 36 - ELEV 28 ft

POHANG	APP	124.25
	120.2	
ULSAN	TWR	118.75

ULSAN/Ulsan(RKPU)

VOR RWY 36

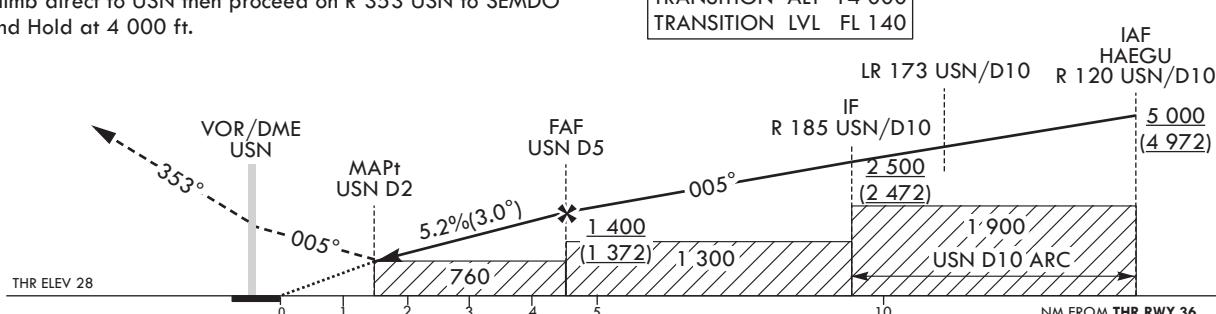
Note : Approach under ICAO Flight Procedures.



**MISSED APPROACH**

Climb direct to USN then proceed on R 353 USN to SEMDO and Hold at 4 000 ft.

TRANSITION ALT 14 000  
TRANSITION LVL FL 140



CATEGORY		MDA(MDH)	A	B	C	D	Knots	60	90	120	150	180	
STA	FULL	760 (732)	2 700 m				Rate of descent	V/V fpm	318	477	636	795	954
	ALS INOP		3 400 m										

Change : Improved clarity such as terrain.

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

ULSAN/Ulsan(RKPU)  
VOR RWY 36

## AERONAUTICAL DATA TABULATION

VOR Approach to RWY 36 from HAEGU		
Fix/point	Coordinates	
HAEGU(IAF)	R 120 USN / 10.00 NM USN	35°32'06.7"N 129°32'32.3"E
D10.0 USN(IF)	BRG 5.63° / 10.00 NM USN	35°25'54.3"N 129°21'44.9"E
D5.0 USN(FAF)	BRG 5.63° / 5.00 NM USN	35°30'54.4"N 129°21'28.4"E
D2.0 USN(MAPt)	BRG 5.63° / 2.00 NM USN	35°33'54.5"N 129°21'18.5"E
THR RWY 36	Final approach descent angle 2.99°	35°35'04.15"N 129°21'08.95"E
USN VOR/DME		35°35'54.6"N 129°21'11.8"E
SEDMO	BRG 352.68° / 13.00 NM USN	35°48'27.1"N 129°16'55.0"E