## **ENR 3.3 AREA NAVIGATION ROUTES**

Route designator (Navigation specification) Name of significant points Coordinates [Navigation Specification limitation]	Waypoint IDENT of VOR/DME BRG & DIST ELEV DME Antenna 2	MAG TRACK	Geodetic DIST NM 4	Upper limits Lower limits or (MOCA) ft AMSL or FL Airspace classification 5	crui lev Odd	ion of sing rels Even	Remarks Controlling unit Frequency 7
L512 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]					<b></b>		Daegu ACC  FREQ: 122.25 MHz 125.925 MHz 122.75 MHz <sup>1)</sup> 1) Common frequency
373820N 1313427E  △ SABET 373829N 1324019E  ▲ ANDOL(FIR BDRY)	N/A	098 279 093 274	52.3 15.7	UNL FL 270(1 500) Class A, G	*		Airspace Classification refer to ENR 3.1-1  * L512 OPS HR between TENAS and ANDOL - EASTBOUND : H24 - WESTBOUND : H24
373958N 1330000E  INCHEON FIR FUKUOKA FIR							** After ANDOL, MEA is FL 290, see AIP JAPAN. *** Extended DME DOC volume service is 220 NM.
1 Oritical DME - KAE-TENACK							
<ol> <li>Critical DME: KAE<tenas \$<="" li=""> <li>DME GAP: SABET/ANDOL,</li> </tenas></li></ol>	SABET>, KPO< GNSS require	<tenas s<br="">d.</tenas>	ABET>				
1. Critical DME: KAE< TENAS/S 2. DME GAP: SABET/ANDOL,  Y233 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]  A BUSKO	SABET>, KPO- GNSS require	KTENAS/S	SABET>				Daegu ACC  FREQ: 122.25 MHz 125.925 MHz 122.75 MHz <sup>2)</sup> 2) Common frequency
2. DME GAP : SABET/ANDOL, Y233 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]	SABET>, KPO GNSS require	TENAS/S d. 069 250	30.0				FREQ: 122.25 MHz 125.925 MHz 122.75 MHz <sup>2)</sup>
2. DME GAP : SABET/ANDOL, Y233 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]  △ BUSKO 374033N 1301610E  △ SELPA 375515N 1304911E  △ ONATA	SABET>, KPO< GNSS require	d. 069		UNL FL 200(1 500) Class A, D, G	<b>\</b>		FREQ: 122.25 MHz 125.925 MHz 122.75 MHz <sup>2)</sup> 2) Common frequency Airspace Classification
2. DME GAP : SABET/ANDOL, Y233 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]  △ BUSKO 374033N 1301610E  △ SELPA 375515N 1304911E  △ ONATA 382832N 1320602E  ▲ KANSU(FIR BDRY)	GNSS require	069 250	30.0	FL 200(1 500)	<b>\</b>	1	FREQ: 122.25 MHz 125.925 MHz 122.75 MHz <sup>2)</sup> 2) Common frequency Airspace Classification
2. DME GAP : SABET/ANDOL, Y233 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]  △ BUSKO 374033N 1301610E  △ SELPA 375515N 1304911E  △ ONATA 382832N 1320602E	GNSS require	069 250 070 251	30.0	FL 200(1 500)	<b>\</b>	1	FREQ: 122.25 MHz 125.925 MHz 122.75 MHz <sup>2)</sup> 2) Common frequency Airspace Classification

<sup>1.</sup> Critical DME: KAE<BUSKO/SELPA>, KPO<BUSKO/SELPA>, KAE<SELPA/ONATA>, KPO<SELPA/ONATA>
2. DME GAP: ONATA/KANSU, GNSS required.

 $<sup>^{\</sup>star}$  RNAV2 represents a navigation accuracy of  $\pm$  2 NM on a 95% containment basis.

Na	Route designator Navigation specification) ame of significant points Coordinates	Waypoint IDENT of VOR/DME BRG & DIST ELEV DME	MAG TRACK	Geodetic DIST	Upper limits Lower limits (MOCA) ft AMSL or FL Airspace	cruisino	ion of levels	Remarks Controlling unit
[Navig	ation Specification limitation]		•	NM	classification	Odd	Even	Frequency
	Y253	2	3	4	5	(	5 	7
	(RNAV2) [GNSS, DME/DME, DME/DME/IRU] DALSU							Incheon ACC FREQ: 123.725 MHz 124.50 MHz 132.20 MHz <sup>1)</sup>
	350731N 1264206E		<u>097</u> 277	5.4	UNL 8 000(2 400) Class A, D, G	Į.		1) Common frequency  Airspace Classification refer to ENR 3.1-1
	GWANGJU VOR(KWA) 350734N 1264844E SAMUL		<u>097</u> 278	2.6	UNL 8 000(2 000) Class A, D, G			
•	350736N 1265154E TEDAN		<u>097</u> 278	22.1	UNL 8 000(5 200) Class A, D, G			
_	350744N 1271852E		<u>098</u> 278	13.5				Incheon ACC FREQ: 128.175 MHz
	ANUBA 350746N 1273523E SAPDI	N/A	<u>098</u> 278	44.7	UNL 8 000(5 400) Class A, D, G			128.325 MHz 132.20 MHz <sup>2)</sup> 2) Common frequency Airspace Classification refer to ENR 3.1-1
_	350737N 1282952E SARAM		098 278	1.6	UNL 8 000(2 400) Class A, D, G			Daegu ACC FREQ: 125.375 MHz 125.775 MHz
Δ	350736N 1283147E  ANKUS		<u>098</u> 279	11.9	UNL 8 000(4 000) Class A, D, G			124.575 MHz 122.75 MHz <sup>3)</sup> 3) Common frequency
	350730N 1284616E  BUSAN VORTAC(PSN)		<u>099</u> 279	11.2	UNL 8 000(3 500) Class A, D, G		*	Airspace Classification refer to ENR 3.1-1
	350721N 1285958E	PAMS CILVE	ADDI/SADA	M> DQN/Q	SAPAM/ANKUS~	CILIZE	ARAM/AI	NIKI IS>

 $<sup>^{\</sup>star}$  RNAV2 represents a navigation accuracy of ± 2 NM on a 95% containment basis.

PSN<ANKUS/PSN>, CJU<ANKUS/PSN>

	1						
Route designator (Navigation specification) Name of significant points Coordinates	Waypoint IDENT of VOR/DME BRG & DIST	_MAG	Geodetic	Upper limits Lower limits (MOCA) ft AMSL or FL		ion of levels	Remarks
[Navigation Specification	ELEV DME	TRACK	DIST	Airspace	0.1.1	<b>-</b>	Controlling unit
limitation]	Antenna 2	3	NM 4	classification 5	Odd	Even	Frequency
Y437 (RNAV2) [GNSS,DME/DME, DME/DME/IRU]	2	3	4	3			Daegu ACC FREQ: 122.25 MHz
△ GANGWON VORTAC(KAE)							125.925 MHz 122.75 MHz <sup>1)</sup>
374203N 1284514E		100 280	47.2	UNL 8 000(6 400) Class A. D. G	<b> </b>		1) Common frequency
374112N 1294441E		100 281	25.0	UNL			Airspace Classification refer to ENR 3.1-1
△ BUSKO 374033N 1301610E	N/A	<u>101</u> 281	62.2	8 000(1 500) Class A, D, G			
△ TENAS 373820N 1313427E							
△ MALSO		044 224	20.0	UNL			
375440N 1314904E  **ANSU(FIR BDRY)		<u>044</u> 225	53.3	FL 200(1 500) Class A, D, G		•	
383800N 1322830É							
INCHEON FIR							
PYONGYANG FIR							

<sup>1.</sup> Critical DME: KAE<KAE/NOMEX>, KPO<KAE/NOMEX>, KAE<NOMEX/BUSKO>, KPO<NOMEX/BUSKO>, KAE<BUSKO/TENAS>, KPO<BUSKO/TENAS>, KAE<TENAS/MALSO>, KPO<TENAS/MALSO>

<sup>2.</sup> DME GAP: MALSO/KANSU GNSS required.

 $<sup>^{\</sup>star}$  RNAV2 represents a navigation accuracy of  $\pm~2\,\text{NM}$  on a 95% containment basis.

	Route designator Navigation specification) ame of significant points Coordinates Navigation Specification limitation]	Waypoint IDENT of VOR/DME BRG & DIST ELEV DME Antenna	MAG TRACK	Geodetic DIST NM 4	Upper limits Lower limits (MOCA) ft AMSL or FL Airspace classification 5		ion of plevels	Remarks Controlling unit Frequency
•	Y571 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]							Incheon ACC  FREQ: 124.525 MHz 132.425 MHz 132.20 MHz <sup>4)</sup>
_ _	330012N 1262735E  OMKIM		<u>048</u> 229	17.4	UNL 11 000(1 500) Class A, D, G	<b>\</b>		4) Common frequency  Airspace Classification refer to ENR 3.1-1
Δ	331320N 1264114E PAPLU		049 229	28.4	UNL 11 000(2 200) Class A, D, G			
•	333441N 1270337E AKPON		<u>056</u> 236	18.2	UNL 11 000(1 500) Class A, D, G			
•	334650N 1271953E NISAV	N/A	<u>056</u> 236	42.9	UNL 11 000(1 800) Class A, D, G			Daegu ACC FREQ: 128.175 MHz
_	341519N 1275835E ANROD		<u>056</u> 237	34.4	UNL 11 000(2 100) Class A, D, G			124.575 MHz 122.75 MHz <sup>2)</sup> 2) Common frequency
<b>-</b>	343758N 1282952E		<u>057</u> 237	26.6	UNL 11 000(2 800) Class A, D, G			Airspace Classification refer to ENR 3.1-1
Δ	345523N 1285416E  BUSAN VORTAC(PSN)		<u>029</u> 209	12.8	UNL 11 000(3 000) Class A, D, G			
	350721N 1285958E  ME GAP : SOSDO/OMKIM							

<sup>1.</sup> DME GAP : SOSDO/OMKIM, OMKIM/PAPLU, PAPLU/AKPON, AKPON/NISAV GNSS required.

\* RNAV2 represents a navigation accuracy of ± 2 NM on a 95% containment basis.

Route designator (Navigation specificating Name of significant position Coordinates [Navigation Specificating]	oints VOR/DME BRG & DIST	MAG TRĄCK 3	Geodetic DIST NM 4	Upper limits Lower limits (MOCA) ft AMSL or FL Airspace classification	Direct cruising Odd	ion of levels	Remarks Controlling unit Frequency
Y572 (RNAV2) [GNSS, DME/DME DME/DME/IRU]	PSN)	J	7	J			Paegu ACC  FREQ: 128.175 MHz 124.575 MHz 122.75 MHz <sup>2</sup> )
350721N 1285958	E	<u>249</u> 069	10.1	UNL 11 000(3 000) Class A, D, G		<b>\</b>	2) Common frequency  Airspace Classification refer to ENR 3.1-1
350225N 1284916	E	<u>237</u> 057	21.1	UNL 11 000(3 200) Class A, D, G			
344834N 1282952	E	<u>237</u> 056	50.4	UNL 11 000(2 600) Class A, D, G			
341520N 1274400	E	<u>236</u> 056	26.8	UNL 11 000(2 000) Class A, D, G			
335733N 1271953	E	<u>236</u> 056	17.0	UNL 11 000(1 500) Class A, D, G			Incheon ACC FREQ: 124.525 MHz
334613N 1270439	E N/A	236 056	10.5	UNL 11 000(1 500) Class A, D, G			132.425 MHz 132.20 MHz <sup>4)</sup> 4) Common frequency
△ BEPKO 333910N 1265514		230 050	21.9	UNL 11 000(5 600) Class A, D, G			Airspace Classification refer to ENR 3.1-1  ** The cruising levels
△ JEJU VORTAC(CJ 332305N 1263727		<u>169</u> 349	10.2	UNL 11 000(8 700) Class A, D, G		<b>\</b>	from CJU to RUGMA are even levels due to operational reasons.
331320N 1264114	E	<u>169</u> 349	13.8	UNL 11 000(1 500) Class A, D, G			The cruising levels from RUGMA to CJU are odd levels due
▲ TOSAN 330012N 1264619		<u>169</u> 349	31.5	UNL 11 000(1 500) Class A, D, G			to operational reasons.
▲ RUGMA(FIR BDR\ 323012N 1265753	, I			5000 A, D, O	<u> </u>		
INCHEON FIR FUKUOKA FIR							

1. DME GAP : UPGOS/BILUM, BILUM/BEPKO, BEPKO/CJU, CJU/OMKIM, OMKIM/TOSAN, TOSAN/RUGMA GNSS required.

<sup>\*</sup> RNAV2 represents a navigation accuracy of ± 2 NM on a 95% containment basis.

Route designator (Navigation specification) Name of significant points Coordinates [Navigation Specification limitation]	Waypoint IDENT of VOR/DME BRG & DIST ELEV DME Antenna	MAG TRACK	Geodetic DIST NM	Upper limits Lower limits (MOCA) ft AMSL or FL Airspace classification	cruising Odd	Even	Remarks Controlling unit Frequency
1	2	3	4	5	(	)	/
Y579 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]							Daegu ACC FREQ: 122.25 MHz 134.375 MHz 120.575 MHz
373820N 1313427E		<u>228</u> 047	68.1			<b>\</b>	125.925 MHz 122.75 MHz <sup>1)</sup> 1) Common frequency
364521N 1304044E		<u>229</u> 049	36.2	UNL FL 140(1 500)			Airspace Classification refer to ENR 3.1-1
▲ DABIK 361743N 1301143E  ▲ BULGA	N/A	<u>229</u> 048	28.1	Class A, D, G			
355609N 1294924E		<u>228</u> 048	40.2	UNL FL 140(2 700) Class A, D, G			
352513N 1291754E   BUSAN VORTAC(PSN)		<u>228</u> 047	23.1	UNL FL 140(3 800) Class A, D, G	<b>↑</b>		
350721N 1285958E					<u> </u>		

<sup>1.</sup> TENAS-PSN CDR1 Operational hour(UTC) - Weekdays: 1400~2200 - SAT: 2200 on the preceding until 2400 on the Saturday - SUN: 0000~2200 - Holiday: 1400 on the preceding until 2200 on the holiday. Rest of Y579-PERM. See ENR 1.1-1.2.

<sup>\*</sup> RNAV2 represents a navigation accuracy of ± 2 NM on a 95% containment basis.

Route designator (Navigation specification) Name of significant points Coordinates [Navigation Specification limitation]	Waypoint IDENT of VOR/DME BRG & DIST ELEV DME Antenna	MAG TRACK	Geodetic DIST NM	Upper limits Lower limits (MOCA) ft AMSL or FL Airspace classification	cruising Odd	ion of levels	Remarks Controlling unit Frequency
Y644 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]  SANGHAI FIR	2	3	4	5		5	7  Daegu ACC  FREQ: 128.70 MHz 132.80 MHz 122.75 MHz <sup>1)</sup>
INCHEON FIR							-
							1) Common frequency
▲ AGAVO(FIR BDRY) 371010N 1235953E		<u>096</u> 276	11.8		<b>\</b>		Eastbound (AGAVO-EGOBA) FL 410, FL 390, FL 370,
371033N 1241442E		<u>096</u> 276	8.1				FL 350, FL 330, FL 310, FL 290, FL 270, FL 250, FL 230
371048N 1242453E △ BODOL		096 277	20.0	UNL FL 150(1 500)			REF.
371122N 1244954E		<u>097</u> 277	31.4	Class A, D, G			ENR 3.1-10 for the detailed altitude conversion procedures.
371203N 1252913E		<u>097</u> 278	15.0				Airspace Classification refer to ENR 3.1-1
△ BELTU 371218N 1254759E	N/A	<u>098</u> 278	32.1	UNL 8 000(2 400) Class A. D. G			
△ BOGAN 371241N 1262812E		<u>098</u> 278	17.6	UNL 8 000(3 200)			
▲ MONSI 371247N 1265015E		<u>098</u> 278	7.5	UNL 8 000(2 400)			
△ POLEG				Class A, D, G			
371249N 1265935E		057 237	24.7	UNL FL 140(3 300)			
△ EGOBA 372915N 1272246E				Class A, D, G			

<sup>1.</sup> Critical DME: SEL<AGAVO/RILRO>, KUZ<AGAVO/RILRO>, SEL<RILRO/GONAV>, KUZ<RILRO/GONAV>, SEL<MONSI/POLEG>, SOT<MONSI/POLEG>, SEL<POLEG/EGOBA>, SOT<POLEG/EGOBA>

 $<sup>^{\</sup>star}$  RNAV2 represents a navigation accuracy of  $\pm$  2 NM on a 95% containment basis.

		I		I		1		I
,(	Route designator Navigation specification)	Waypoint IDENT of VOR/DME BRG &	MAG	O a datia	Upper limits Lower limits (MOCA) ft AMSL or FL		ion of	Barrada
	ame of significant points Coordinates <u>gation Specification limitation]</u>	DIST ELEV DME Antenna	MAG TRACK	Geodetic DIST NM 4	Airspace classification	Odd	Even	Remarks Controlling unit Frequency 7
	Y655 (RNAV2) [GNSS, DME/DME,	_	-		,			Daegu ACC
Δ	<b>DME/DME/IRU]</b> GONAV 371048N 1242453E		188			<b> </b>		FREQ: 132.80 MHz 128.70 MHz 122.75 MHz <sup>1)</sup> 1) Common frequency
Δ	DALPO 365835N 1242453E		008	12.2				Airspace Classification refer to ENR 3.1-1
•	NONOS		188 008	17.8				
	364046N 1242453E  DANPA		188 008	70.1	UNL FL 140(1 500) Class A, D, G			Incheon ACC FREQ: 132.15 MHz 123.55 MHz 132.20 MHz <sup>2)</sup> 2) Common frequency Airspace Classification refer to ENR 3.1-1
	353036N 1242453E	N/A	188 007	88.9				Incheon ACC FREQ: 120.725 MHz 128.30 MHz 132.20 MHz <sup>3)</sup> 3) Common frequency Airspace Classification refer to ENR 3.1-1
•	PALSA 340131N 1242453E		187 007	11.0				Incheon ACC
	TOLIS 335030N 1242453E		111 291	73.0	UNL 9 000(1 500)			FREQ : 124.525 MHz 132.425 MHz 132.20 MHz <sup>4)</sup>
•	LIMDI 333313N 1254953E		111	29.0	Class A, D, G <u>UNL</u> 9 000(4 100)			4) Common frequency  Airspace Classification
Δ	REMOS 332605N 1262329E		292	25.0	Class A, D, G UNL			refer to ENR 3.1-1
	JEJU VORTAC(CJU)		<u>112</u> 292	12.1	9 000(8 700) Class A, D, G		1	
	332305N 1263727E cal DME : SEL <gonav dalpo:<br="">KUZ<nonos danpa<br="">E GAP : DANPA/PALSA, PALS/</nonos></gonav>	>, KWA <limd< td=""><td>I/REMOS&gt;, C</td><td>JU<limdi f<="" td=""><td>REMOS&gt;</td><td>PO/NON</td><td>IOS&gt;, SE</td><td>L EL<nonos danpa="">,</nonos></td></limdi></td></limd<>	I/REMOS>, C	JU <limdi f<="" td=""><td>REMOS&gt;</td><td>PO/NON</td><td>IOS&gt;, SE</td><td>L EL<nonos danpa="">,</nonos></td></limdi>	REMOS>	PO/NON	IOS>, SE	L EL <nonos danpa="">,</nonos>
Z. DIVIL	Y657 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]	TOLIS, TOLI	O/LINIDI, TALI	703/030 31	voo required.			Incheon ACC FREQ: 123.725 MHz 124.50 MHz 132.20 MHz <sup>5)</sup>
	GWANGJU VOR(KWA) 350734N 1264844E		072		10 000	↓		5) Common frequency Airspace Classification
•	IGDOK 353104N 1274907E	N/A	253	54.7	8 000(7 100) Class D 10 000			refer to ENR 3.1-1
Δ	DALSEONG VORTAC(TGU) 354835N 1283527E		073 254	41.6	8 000(4 800) Class D		<u> </u>	Daegu ACC FREQ: 125.375 MHz 125.775 MHz 124.575 MHz 122.75 MHz <sup>6)</sup>
								6) Common frequency Airspace Classification refer to ENR 3.1-1

<sup>\*</sup> RNAV2 represents a navigation accuracy of ± 2 NM on a 95% containment basis.

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Route designator (Navigation specification) Name of significant points Coordinates [Navigation Specification limitation]	Waypoint IDENT of VOR/DME BRG & DIST ELEV DME Antenna	MAG TRACK 3	Geodetic DIST NM	Upper limits Lower limits (MOCA) ft AMSL or FL Airspace classification 5	cruising Odd	tion of g levels Even	Remarks Controlling unit Frequency
Y659 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]	2	3	4	3			Incheon ACC FREQ: 126.175 MHz 134.375 MHz 132.20 MHz <sup>1)</sup>
△ GUNSAN VORTAC(KUZ) 355437N 1263641E  △ ELPOS 355410N 1264707E		101 281	8.5	10 000 7 000(1 700)	<b>\</b>		1) Common frequency  Airspace Classification refer to ENR 3.1-1
△ RINBO 355352N 1265349E		101 281	5.5	Class D 10 000			Telef to LINIX 3.1-1
△ MELES		101 282	17.8	7 000(3 700) Class D			
355251N 1271542E  △ OPEDA	N/A	102 282	17.2	10 000 7 000(5 000) Class D			
355149N 1273652E		<u>102</u> 282	47.7	10 000 7 000(6 600)			Daegu ACC
△ DALSEONG VORTAC(TGU) 354835N 1283527E		<u>085</u> 265	24.6	Class D UNL 6 000(4 200)			FREQ: 125.375 MHz 125.775 MHz 124.575 MHz
▲ LAPAL 355413N 1290452E		085	40.7	Class A, D, G UNL 6 000(3 300)			122.75 MHz <sup>2)</sup> 2) Common frequency
△ POHANG VORTAC(KPO) 355838N 1292828E		265	19.7	Class A, D, G		<u> </u>	Airspace Classification refer to ENR 3.1-1
Y677 (RNAV2)							Incheon ACC
[GNSS, DME/DME, DME/DME/IRU]							FREQ: 124.525 MHz 132.425 MHz 132.20 MHz <sup>3)</sup>
△ JEJU VORTAC(CJU) 332305N 1263727E  ▲ TAMNA		<u>089</u> 269	35.9	UNL 9 000(6 300) Class A. D. G	<b>\</b>		3) Common frequency  Airspace Classification refer to ENR 3.1-1
332815N 1271953E	N/A	<u>089</u> 270	49.8	UNL 9 000(1 500)			Incheon ACC FREQ: 128.175 MHz
▲ SAMDO(FIR BDRY) 333503N 1281857E				Class A, D, G		<u> </u>	128.325 MHz 132.20 MHz <sup>4)</sup> 4) Common frequency
INCHEON FIR FUKUOKA FIR							Airspace Classification refer to ENR 3.1-1
1. Critical DME: PSN <cju tamna="">,  * RNAV2 represents a navigation acc</cju>					MNA/SAN	/IDO>	

<sup>\*</sup> RNAV2 represents a navigation accuracy of ± 2 NM on a 95% containment basis.

Route designator (Navigation specification) Name of significant points Coordinates [Navigation Specification limitation]	Waypoint IDENT of VOR/DME BRG & DIST ELEV DME Antenna	MAG TRACK 3	Geodetic DIST NM 4	Upper limits Lower limits (MOCA) ft AMSL or FL Airspace classification 5	Direct cruising Odd	Even	Remarks Controlling unit Frequency 7
Y685 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]  ANYANG VORTAC(SEL)							Daegu ACC FREQ: 132.80 MHz 128.70 MHz 118.925 MHz 120.525 MHz 122.75 MHz <sup>1)</sup> 1) Common frequency
372449N 1265542E  △ KALMA		133 313	10.7	UNL 8 000(3 200) Class A, D, G	<b>↓</b>		Only flying westbound from KPO to SEL on Y685 is authorized except ACFT departing from RKTY or RKTI.
371845N 1270645E  △ KAKSO		133 313	19.3	UNL 8 000(2 900) Class A, D, G			Aircraft flying eastbound from SEL to KPO at or above 11 000 ft on Y685 shall get PPR 24 hours
370745N 1272637E		133 313	11.5	UNL 8 000(3 600) Class A, D, G			before from Incheon/Daegu ACC. No PPR is needed at or below 10 000 ft. Airspace Classification refer to ENR 3.1-1
▲ GUKDO 370111N 1273823E		133 314	9.2	UNL 8 000(3 700)			Daegu ACC
△ ENSAL 365554N 1274747E		134 314	9.2	Class A, D, G  UNL 8 000(4 000)			FREQ: 120.575 MHz 119.375 MHz 134.375 MHz 122.75 MHz <sup>2)</sup> 2) Common frequency
△ BASEM 365037N 1275710E	N/A .	134 314	12.5	UNL 8 000(5 000) Class A, D, G			Only flying westbound from KPO to SEL on Y685 is authorized except ACFT departing from RKTY or RKTI.
▲ BIGOB 364325N 1280952E  △ YECHEON VOR(CUN)		134 314	9.5	UNL 8 000(4 900) Class A, D, G			Aircraft flying eastbound from SEL to KPO at or above 11 000 ft on Y685 shall get PPR 24
363755N 1281931E  △ ELAPI		133 314	30.8	UNL 8 000(3 800) Class A, D, G			hours before from Incheon/Daegu ACC. No PPR is needed at or below 10 000 ft.
362014N 1285051E  △ POHANG VORTAC(KPO)		<u>134</u> 314	37.3	UNL 8 000(4 700) Class A, D, G			Airspace Classification refer to ENR 3.1-1
355838N 1292828E		107 287	17.2	UNL 8 000(2 100) Class A, D, G			
355609N 1294924E  A SAPRA(FIR BDRY)		107 287	44.4	UNL 8 000(1 500) Class A, D, G		<b>↑</b>	
354926N 1304325E  INCHEON FIR FUKUOKA FIR							

<sup>\*</sup> RNAV2 represents a navigation accuracy of ± 2 NM on a 95% containment basis.

Νà	Route designator avigation specification) me of significant points Coordinates lavigation Specification limitation	Waypoint IDENT of VOR/DME BRG & DIST ELEV DME Antenna	MAG TRACK	Geodetic DIST NM 4	Upper limits Lower limits (MOCA) ft AMSL or FL Airspace classification	cruising Odd	ion of levels	Remarks Controlling unit Frequency
	Y697 (RNAV2) [GNSS, DME/DME, DME/DME/IRU] SANGHAI FIR	2	3	4	J			Daegu ACC FREQ: 128.70 MHz 132.80 MHz 122.75 MHz <sup>1)</sup>
<b>A</b>	INCHEON FIR AGAVO(FIR BDRY)							1) Common frequency
_	371010N 1235953E  OLBIM		<u>066</u> 246	7.5				Westbound(SEL-AGAVO) FL 400, FL 380, FL 360, FL 340, FL 320, FL 300, FL 280, FL 260, FL 240,
Δ	371411N 1240751E NOGON		<u>066</u> 246	16.2				FL 220, FL 200  REF. ENR 3.1-9 for the detailed altitude
Δ	372250N 1242505E ANSIM		<u>097</u> 277	20.0	UNL FL 150(1 500)			conversion procedures.  Only flying westbound
△	372323N 1245009E BINIL		<u>097</u> 277	19.0	Class A, D, G			from SEL to AGAVO on Y697 is authorized.
•	372349N 1251359E NOPIK		<u>097</u> 277	20.0				
	372412N 1253905E		<u>097</u> 278	41.0	UNL 8 000(2 100)			
$\triangle$	GOGET 372442N 1263036E		<u>098</u>	20.0	Class A, D, G			
$\triangle$	ANYANG VORTAC(SEL) 372449N 1265542E		278	20.0	UNL 7 500(3 400)	<b>\</b>	1	Daegu ACC
$\triangle$	EGOBA		<u>087</u> 267	22.0	Class A, D, G			FREQ: 132.80 MHz 118.925 MHz
	372915N 1272246E	N/A	<u>087</u> 267	13.9	7 500(5 100)			122.75 MHz <sup>2</sup> ) 2) Common frequency Airspace Classification
•	KARBU 373159N 1273952E		087	22.9	UNL 7 500(4 500)			refer to ENR 3.1-1  Daegu ACC
•	TORUS 373625N 1280807E		268	22.9	Class A, D, G UNL			FREQ: 134.175 MHz 123.65 MHz
•	BIKSI		<u>088</u> 268	21.8	7 500(7 500) Class A, D, G			122.75 MHz <sup>3)</sup> 3) Common frequency
^	374032N 1283504E		<u>088</u> 268	8.2	7 500(7 100)			Airspace Classification refer to ENR 3.1-1
Δ	GANGWON VORTAC(KAE) 374203N 1284514E		<u>130</u>	30.0	Class A, D, G UNL 8 000(7 100)			Daegu ACC
•	PILIT 372631N 1291731E		310 130		Class A, D, G			FREQ: 134.175 MHz 123.65 MHz
•	NIMUS 371210N 1294656E		310	27.5	UNL			122.75 MHz <sup>4</sup> ) 4) Common frequency
$\triangle$	AGSUS 364521N 1304044E		310	50.8	9 000(1 500) Class A, D, G			Only flying westbound from LANAT to KAE on G597 shall get
•	LANAT(FIR BDRY) 362224N 1312542E		130 311	42.9			1	24HR PPR from Daegu ACC.
	INCHEON FIR FUKUOKA FIR			<u> </u>	<u> </u>			Airspace Classification refer to ENR 3.1-1

<sup>1.</sup> Critical DME: SEL<AGAVO/OLBIM>, KUZ<AGAVO/OLBIM>, SEL<OLBIM/NOGON>, KUZ<OLBIM/NOGON>, SEL<NOGON/ANSIM>, KUZ<NOGON/ANSIM>, SEL<KARBU/TORUS>, KAE<KARBU/TORUS>, SEL<TORUS/BIKSI>, KAE<TORUS/BIKSI>, SEL<BIKSI/KAE>, KAE<BIKSI/KAE>, KAE<KAE/PILIT>, KPO<KAE/PILIT>, KAE<PILIT/NIMUS>, KPO<PILIT/NIMUS>, KAE<NIMUS/AGSUS>, KPO<NIMUS/AGSUS>, KAE<AGSUS/LANAT>, KPO<AGSUS/LANAT>

\* RNAV2 represents a navigation accuracy of ± 2 NM on a 95% containment basis.

AIP		
Republic	of	Korea

				Upper limits		tion of	
Route designator (Navigation specification) Name of significant points Coordinates [Navigation Specification limitation] 1	Waypoint IDENT of VOR/DME BRG & DIST ELEV DME Antenna	MAG TRACK	Geodetic DIST NM 4	Lower limits (MOCA) ft AMSL or FL  Airspace classification 5	Odd	e levels  Even	Remarks Controlling unit Frequency
Y711 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]  MONSI 371247N 1265015E							Daegu ACC  FREQ: 132.80 MHz 128.70 MHz 122.75 MHz <sup>1)</sup> 1) Common frequency
■ BULTI		<u>190</u> 010	29.4	UNL FL 140(2 900)		<b>*</b>	Airspace Classification refer to ENR 3.1-1
364322N 1264930E  MEKIL		<u>187</u> 007	10.0	Class A, D, G			Incheon ACC
363322N 1264953E		187 006	10.2	UNL			FREQ: 132.150 MHz 123.55 MHz 132.20 MHz <sup>2)</sup> 2) Common frequency
362311N 1265016E		<u>193</u> 013	14.1	FL 140(3 200) Class A, D, G			Airspace Classification
△ BEDES 360905N 1264844E  △ ELPOS		193 013	14.9	UNL FL 140(2 200)			refer to ENR 3.1-1
355410N 1264707E		<u>193</u> 013	24.0	Class A, D, G <u>UNL</u> FL 140(2 800)			
▲ MANGI 353011N 1264432E		193 013	22.7	Class A, D, G  UNL FL 140(3 800)			Incheon ACC
△ DALSU 350731N 1264206E		193 013	42.4	Class A, D, G <u>UNL</u> FL 140(4 000)			FREQ: 120.725 MHz 128.30 MHz 132.20 MHz <sup>3)</sup> 3) Common frequency
△ NULDI 342514N 1263739E		<u>193</u>	10.0	Class A, D, G <u>UNL</u> FL 140(3 300)			Airspace Classification refer to ENR 3.1-1
▲ DOTOL 341515N 1263637E	N/A	013 193	24.8	Class A, D, G  UNL  FL 140(2 700)			Incheon ACC
△ KIDOS 335028N 1263402E		207		Class A, D, G UNL			FREQ: 124.525 MHz 132.425 MHz
△ REMOS 332605N 1262329E		207	25.9	FL 140(6 000)  Class A, D, G  UNL			132.20 MHz <sup>4)</sup> 4) Common frequency Airspace Classification
▲ PANSI 330014N 1261225E		027	27.4	FL 140(6 300) Class A, D, G			refer to ENR 3.1-1
△ DOMKO 322848N 1255859E		207 027 207	33.4				Inches ACC
△ PONIK 320021N 1254659E		027 207	30.1				Incheon ACC FREQ: (At or above FL 335) 133.425 MHz
△ IKEDO 314314N 1253948E		026	18.2	UNL FL 140(1 500)			133.425 MHz 134.15 MHz 132.20 MHz <sup>5)</sup> (below FL 335)
▲ KANKA 313155N 1253504E		026	12.0	Class A, D, G			125.725 MHz 132.825 MHz 128.375 MHz 132.20 MHz <sup>5)</sup>
△ BONSO 302840N 1250851E		2 <u>07</u> 026	67.0				5) Common frequency Airspace Classification
▲ MUGUS(FIR BDRY) 300006N 1245712E		206 026	30.2				refer to ENR 3.1-1
INCHEON FIR FUKUOKA FIR 1. Critical DME: KWA <dotol< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></dotol<>							

Critical DME: KWA<DOTOL/KIDOS>, CJU<DOTOL/KIDOS>
 DME GAP: KIDOS/REMOS, REMOS/PANSI, PANSI/DOMKO, DOMKO/PONIK, PONIK/KANKA, KANKA/BONSO, BONSO/MUGUS GNSS required.

<sup>\*</sup> RNAV2 represents a navigation accuracy of ± 2 NM on a 95% containment basis.

N.	Route designator Navigation specification) ame of significant points Coordinates Navigation Specification	Waypoint IDENT of VOR/DME BRG & DIST ELEV DME	MAG TRACK	Geodetic DIST	Upper limits Lower limits (MOCA) ft AMSL or FL Airspace		ion of 1 levels	Remarks Controlling unit
	limitation]	Antenna	0	NM	classification	Odd	Even	Frequency
	Y722 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]	2	3	4	5	<u> </u>	7	10 Incheon ACC FREQ: 126.175 MHz 134.375 MHz 132.20 MHz <sup>1)</sup>
	SONGTAN VORTAC(SOT) 370540N 1270154E		194	21.5	UNL FL 140(3 100)			1) Common frequency  Airspace Classification
•	OLMEN 364413N 1265928E		014  187		Class A, D, G UNL			refer to ENR 3.1-1
	GUNKU 363414N 1265949E		007	10.0	FL 140(3 600) Class A, D, G UNL			
•	PEBRI 362311N 1270013E		<u>187</u> 007	11.0	FL 140(3 300) Class A, D, G UNL			
	ATASO		<u>193</u> 013	29.5	FL 140(2 300) Class A, D, G			
	355344N 1265657E MAKSA		<u>193</u> 013	23.6	UNL FL 140(3 800) Class A, D, G			
	353011N 1265422E		<u>193</u> 013	22.7	UNL FL 140(4 000)			Incheon ACC FREQ: 123.725 MHz
	SAMUL 350736N 1265154E		<u>193</u> 013	52.5	Class A, D, G  UNL  FL 140(3 400)			124.50 MHz 132.20 MHz <sup>2)</sup> 2) Common frequency Airspace Classification
•	KAMIT 341514N 1264618E		193	22.4	Class A, D, G  UNL  FL 140(2 100)			refer to ENR 3.1-1
	GUKSU 335251N 1264357E	N/A	013	22.4	Class A, D, G UNL			FREQ: 124.525 MHz 132.425 MHz
	LOSNI 333315N 1264153E		1 <u>93</u> 012	19.6	FL 140(1 700) Class A, D, G UNL			132.20 MHz <sup>3)</sup> 3) Common frequency
	JEJU VORTAC(CJU)		<u>207</u> 027	10.8	FL 140(7 600) Class A, D, G			Airspace Classification refer to ENR 3.1-1
	332305N 1263727E SOSDO		<u>207</u> 027	24.3	UNL FL 140(8 700) Class A. D. G			
	330012N 1262735E SAMLO		<u>207</u> 027	29.5				
	323223N 1261536E NIRAT		<u>207</u> 027	30.2				Incheon ACC FREQ: (At or above FL 335)
	320354N 1260329E ELGEP		<u>207</u> 027	18.1	UNL FL 140(1 500)			133.425 MHz 134.15 MHz 132.20 MHz <sup>4)</sup> (below FL 335)
	314653N 1255617E TESIM		<u>207</u> 027	12.1	Class A, D, G			125.725 MHz 132.825 MHz 128.375 MHz
	313526N 1255128E		<u>207</u> 026	100.9		<b>^</b>		132.20 MHz <sup>4</sup> ) 4) Common frequency Airspace Classification refer to ENR 3.1-1
<b>^</b>	ATOTI(FIR BDRY) 300013N 1251154E INCHEON FIR SANGHAI FIR					<u> </u>		TOTAL
11 Cr	itical DMF · KWA <kamit g<="" td=""><td>TINGUE CITE</td><td>-KAMIT/GII</td><td>KCIIN</td><td></td><td></td><td></td><td></td></kamit>	TINGUE CITE	-KAMIT/GII	KCIIN				

<sup>1.</sup> Critical DME: KWA<KAMIT/GUKSU>, CJU<KAMIT/GUKSU>
2. DME GAP: GUKSU/LOSNI, LOSNI/CJU, CJU/SOSDO, SOSDO/SAMLO, SAMLO/NIRAT, NIRAT/TESIM, TESIM/ATOTI, GNSS required.

\* RNAV2 represents a navigation accuracy of ± 2 NM on a 95% containment basis.

A PILIT 372631N 1291731E  A NOBUT 370715N 1291957E  A LOSTO 362016N 1292548E  A POHANG VORTAC(KPO) 355838N 1292828E  A APARU 352442N 1290932E  B BUSAN VORTAC(PSN) 350721N 1285958E   A DALSEONG VORTAC(TGU) 354835N 1283527E  A DILIT 372631N 1291731E  183 003 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.	Route designator (Navigation specification) Name of significant points Coordinates [Navigation Specification limitation]		MAG RĄCK	Geodetic DIST NM	Upper limits Lower limits (MOCA) ft AMSL or FL Airspace classification	Direct crui: lev	ion of sing els	Remarks Controlling unit Frequency
CRNAV2   [GNSS, DME/DME, DME/DME, DME/DME/RU]	1	2	3	4	5	6	6	7
372631N 1291731E  372631N 1291731E  183	(RNAV2) [GNSS, DME/DME,							FREQ: 134.175 MHz 120.575 MHz
A LOSTO   362016N 1292548E	372631N 1291731E			19.3	9 000(4 900) Class A, D, G		<b>\</b>	123.65 MHz 119.375 MHz 122.75 MHz <sup>1)</sup> 1) Common frequency
N/A   183   003   21.7   9 000(2 100)	▲ LOSTO	l I		47.2	9 000(5 600) Class A, D, G			1. 11 000 ft to FL 240, at or above FL 280 will be blocked.
APARU 352442N 1290932E  △ BUSAN VORTAC(PSN) 350721N 1285958E   Y781 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]  △ DALSEONG VORTAC(TGU) 354835N 1283527E   APARU  Olass A, D, G UNL UNL  19.0  9 000(4 400) Class A, D, G UNL  19.0  9 000(4 400) Class A, D, G  UNL  19.0  19	△ POHANG VORTAC(KPO)	,, .	003	21.7	9 000(2 100) Class A, D, G			At or above 11 000 ft,     required 15 days PPR     from Air Traffic
△ BUSAN VORTAC(PSN)       032       19.0       9 000(4 400)       1elet to ENR 3.1-1         Y781       (RNAV2)       [GNSS, DME/DME, DME/DME/IRU]       Daegu ACC         FREQ : 125.375 MHz       125.775 MHz       124.575 MHz         Δ DALSEONG VORTAC(TGU)       124.575 MHz       122.75 MHz	▲ APARU		033	37.2	9 000(4 400) Class A, D, G			Management Office.  3. Airspace Classification
(RNAV2)       Daegu ACC         [GNSS, DME/DME, DME/DME/IRU]       FREQ: 125.375 MHz         △ DALSEONG VORTAC(TGU)       125.775 MHz         354835N 1283527E       UNL				19.0	, ,	<u> </u>		refer to ENR 3.1-1
100	(RNAV2) [GNSS, DME/DME, DME/DME/IRU]							Daegu ACC  FREQ: 125.375 MHz
192   19.8   7 000(4 900)   2) Common frequency			<u>192</u> 012	19.8	7 000(4 900)	<b>\</b>	122.75 MHz <sup>2)</sup> 2) Common frequency	-
ANKUS 23.6 7 000(4 000) refer to ENR 3.1-1				23.6	7 000(4 000)			Airspace Classification refer to ENR 3.1-1
350730N 1284616E N/A UNL				7.7	7 000(3 500)			
350033N 1285022E				27.3	7 000(2 800)			
343718N 1290751E  INCHEON FIR								
FUKUOKA FIR	FUKUOKA FIR							

<sup>1.</sup> Critical DME: PSN<OMOTU/BESNA>, CJU<OMOTU/BESNA>
2. DME GAP: ANKUS/OMOTU, GNSS required.

<sup>\*</sup> RNAV2 represents a navigation accuracy of ± 2 NM on a 95% containment basis.

Y782 (RNAV2) (ENSS, DME/DME, DME/DME/IRU]         IVA         UNL 4 500(3 000) Class A, D, G         IVA         IVA         Daegu ACC         FREQ: 128.70 MHz 120.525 MHz 120.525 MHz 121.275 MHz <sup>-1</sup> 19. Common frequency         AnyAng VORTAC(SEL) 371249N 1265935E         IT4 354         12.4         4 500(3 000) Class A, D, G         IVA	Route designator (Navigation specification) Name of significant points Coordinates [Navigation Specification limitation]	Waypoint IDENT of VOR/DME BRG & DIST ELEV DME Antenna	MAG TRACK 3	Geodetic DIST NM 4	Upper limits Lower limits (MOCA) ft AMSL or FL Airspace classification 5	Directi cruising Odd	levels Even	Remarks Controlling unit Frequency
A OSPOT 365018N 1272055E       324       21.6       UNL 8 000(3 300)       Daegu ACC         A VASLI 364252N 1273003E       144 324       10.4       UNL 8 000(4 200)       Daegu ACC         A MAKDU 362712N 1274909E       N/A       144 324       21.9       UNL 8 000(4 200)       125.775 MHz 125.775 MHz 124.575 MHz 124.575 MHz 122.75 MHz	Y782 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]  ANYANG VORTAC(SEL) 372449N 1265542E  POLEG 371249N 1265935E  SONGTAN VORTAC(SOT)		174 354 174 354	12.4 7.4	UNL 4 500(3 000) Class A, D, G UNL 4 500(2 000)			FREQ: 128.70 MHz 120.525 MHz 122.75 MHz <sup>1)</sup> 1) Common frequency Airspace Classification
MAKDU 362712N 1274909E       N/A       21.9 UNL 8 000(4 200) Class A, D, G       125.775 MHz 125.775 MHz 125.775 MHz 125.775 MHz 122.75 MHz	365018N 1272055E		324 144		8 000(3 300)			Daegu ACC
▲ BITUX       361645N 1280148E       144/324       39.2       UNL/10 000(4 500)       Airspace Classification refer to ENR 3.1-1         △ DALSEONG VORTAC(TGU)       354835N 1283527E       UNL/8 000(4 400)       UNL/8 000(4 400)       Airspace Classification refer to ENR 3.1-1         ▲ KALOD       353012N 1284626E       UNL/9 000(3 600)       UNL/	364252N 1273003E ▲ MAKDU	N/A	324 144		8 000(4 200)			125.775 MHz 124.575 MHz
354835N 1283527E  A KALOD 353012N 1284626E  A BUSAN VORTAC(PSN) 350721N 1285958E  A APELA(FIR BDRY) 344323N 1291400E  MACALOD  162 342 20.4  8 000(4 400) Class A, D, G UNL 5 000(3 600) Class A, D, G UNL 4 000(3 000) Class A, D, G UNL 4 000(3 000) Class A, D, G UNL 4 000(3 000) Class A, D, G	361645N 1280148E		144	39.2	10 000(4 500)			2) Common frequency  Airspace Classification
△ BUSAN VORTAC(PSN)     162/342     25.4     5 000(3 600)       ○ Class A, D, G       162/342     26.6     UNL       4 000(3 000)     Class A, D, G       ↑     344323N 1291400E       INCHEON FIR	▲ KALOD		342	20.4	8 000(4 400) Class A, D, G			TOTAL OF EIGHT OF 1-1
▲ APELA(FIR BDRY) 344323N 1291400E  INCHEON FIR	△ BUSAN VORTAC(PSN)		342		5 000(3 600) Class A, D, G UNL			
	344323N 1291400E			26.6	, ,		<u> </u>	

<sup>\*</sup> RNAV2 represents a navigation accuracy of ± 2 NM on a 95% containment basis.

Na	Route designator Navigation specification) Ime of significant points Coordinates Navigation Specification Iimitation]	Waypoint IDENT of VOR/DME BRG & DIST ELEV DME Antenna	MAG TRACK	Geodetic DIST NM	Upper limits Lower limits (MOCA) ft AMSL or FL Airspace classification	cruising Odd	Even	Remarks Controlling unit Frequency
	1	2	3	4	5	6	3	7
	Z50 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]							Daegu ACC  FREQ: 128.70 MHz 134.175 MHz 122.75 MHz <sup>1)</sup> 1) Common frequency
	372915N 1272246E SONGTAN VORTAC(SOT)		<u>224</u> 044	28.8	UNL FL 140(3 300) Class A, D, G		<b>\</b>	Airspace Classification refer to ENR 3.1-1
	370540N 1270154E  BULTI	N/A	213 032	24.4	UNL FL 140(2 900) Class A, D, G	<del>-</del>		
	364322N 1264930E							1
•	Z51 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]							Incheon ACC FREQ: 132.15 MHz
	364406N 1263658E  MOXID	N/A	173 353	21.6	UNL FL 150(3 900) Class A, D, G		<b>\</b>	123.55 MHz 132.20 MHz <sup>2)</sup> 2) Common frequency
	362311N 1264359E BEDES 360905N 1264844E		173 353	14.6	UNL FL 150(3 600) Class A, D, G			Airspace Classification refer to ENR 3.1-1
•	Z52 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]							Incheon ACC FREQ: 126.175 MHz
	364413N 1265928E POSAN	N1/A	<u>051</u> 231	16.4	UNL 8 000(3 400) Class A, D, G	<b> </b>		134.375 MHz 132.20 MHz <sup>3)</sup> 3) Common frequency
	365615N 1271316E KAKSO	N/A	<u>051</u> 232	15.7	UNL 8 000(3 000) Class A, D, G		<b>↑</b>	Airspace Classification refer to ENR 3.1-1
	370745N 1272637E						·	
	Z53 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]							Daegu ACC FREQ: 125.375 MHz
•	BITUX 361645N 1280148E		<u>002</u> 182	17.0	UNL FL 160(4 000)		<b>\</b>	120.575 MHz 125.775 MHz 119.375 MHz 122.75 MHz <sup>4)</sup>
	TEBEX 363341N 1275929E	N/A	002 182	17.0	UNL FL 160(4 600)			4) Common frequency  Airspace Classification refer to ENR 3.1-1
Δ	BASEM 365037N 1275710E				Class A, D, G	<u> </u>		

<sup>\*</sup> RNAV2 represents a navigation accuracy of ± 2 NM on a 95% containment basis.

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Ń	Route designator Navigation specification) ame of significant points Coordinates gation Specification limitation]	Waypoint IDENT of VOR/DME BRG & DIST ELEV DME Antenna	MAG TRACK	Geodetic DIST NM 4	Upper limits Lower limits (MOCA) ft AMSL or FL Airspace classification	cruising	ion of levels  Even	Remarks Controlling unit Frequency
	Z54 (RNAV2)	_						Daegu ACC
	[GNSS, DME/DME, DME/DME/IRU]							FREQ: 128.70 MHz 132.80 MHz
Δ	SONGTAN VORTAC(SOT)							120.525 MHz 122.75 MHz <sup>1)</sup>
•	370540N 1270154E		316 136	11.7	UNL 8 000(2 400) Class A, D, G		<b>.</b>	Common frequency     Airspace Classification refer to ENR 3.1-1
	371247N 1265015E	N/A	316 136	19.7	UNL 8 000(2 300)			Total to Entry 5.1 1
$\triangle$	GOGET		130		Class A, D, G	<b>↑</b>		
	372442N 1263036E							
	Z55 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]							Daegu ACC FREQ: 128.70 MHz
	SANGHAI FIR							132.80 MHz
	INCHEON FIR		I					122.75 MHz <sup>2</sup> 2) Common frequency
•	AGAVO(FIR BDRY)							
	371010N 1235953E		154		UNL			Airspace Classification refer to ENR 3.1-1
•	NONOS	N/A	334	35.5	FL 140(1 500) Class A, D, G		<u> </u>	Tolor to Erit 6.1 1
	364046N 1242453E							
. Criti	cal DME : SEL <agavo nonos<="" td=""><td>&gt;, KUZ<agav< td=""><td>O/NONOS&gt;</td><td></td><td></td><td></td><td></td><td></td></agav<></td></agavo>	>, KUZ <agav< td=""><td>O/NONOS&gt;</td><td></td><td></td><td></td><td></td><td></td></agav<>	O/NONOS>					
	Z56 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]							Daegu ACC FREQ: 122.25 MHz
	PYONGYANG FIR							125.925 MHz
	INCHEON FIR							122.75 MHz <sup>33</sup> 3) Common frequency
•	KANSU(FIR BDRY)							, , , , , , , , , , , , , , , , , , , ,
$\triangle$	383800N 1322830E PALDU		180 360	40.2		<b>\</b>		Airspace Classification refer to ENR 3.1-1
	375813N 1323625E	N/A	180 360	19.9	UNL FL 200(1 500)			
$\triangle$	SABET 373829N 1324019E		180	19.9	Class A, G			
•	IGRAS(FIR BDRY) 371846N 1324411E		360	13.3			<u></u>	
		l	I		İ	1	1	

<sup>\*</sup> RNAV2 represents a navigation accuracy of ± 2 NM on a 95% containment basis.

Route design (Navigation speci Name of significa	fication)	Waypoint IDENT of VOR/DME BRG &			Upper limits Lower limits (MOCA)	cru	tion of ising vels	
Coordinate [Navigation Spec	s ification	DIST ELEV DME Antenna	MAG TRACK	Geodetic DIST NM 4	ft AMSL or FL Airspace classification 5	Odd	<u>Even</u>	Remarks Controlling unit Frequency
Z57 (RNAV2) [GNSS, DME/DME/IRU			3	7			5	Daegu ACC  FREQ: 128.70 MHz 132.80 MHz 122.75 MHz <sup>1)</sup>
371033N 124 <sup>2</sup> △ DALPO 365835N 1242		N/A	154 334	14.5	UNL FL 150(1 500) Class A, D, G	<b>\</b>		1) Common frequency Airspace Classification refer to ENR 3.1-1
1. Critical DME : SE	L <rilro da<="" td=""><td>LPO&gt;, KUZ&lt;</td><td>RILRO/DA</td><td>LPO&gt;</td><td></td><td></td><td></td><td><u> </u></td></rilro>	LPO>, KUZ<	RILRO/DA	LPO>				<u> </u>
Z63 (RNAV2) [GNSS, DME/I DME/DME/IRU								<b>Daegu ACC</b> FREQ: 134.175 MHz 123.65 MHz
▲ PILIT 372631N 1291	731E	N/A	<u>064</u> 245	26.1	UNL FL 250(1 500) Class A, G	<b>\</b>	<u> </u>	122.75 MHz <sup>2)</sup> 2) Common frequency Airspace Classification refer to ENR 3.1-1
374112N 1294		AEVS KDOZE	DILIT/NOM					
1. Critical DME : KAI  Z81  (RNAV2)  [GNSS, DME/  DME/DME/IRU	DME,	IEXZ, RPUSE	PILIT/NOIVI					Incheon ACC  FREQ: 124.525 MHz 132.425 MHz 132.20 MHz <sup>3)</sup>
△ KIDOS 335028N 1263 △ JEJU VORTA	C(CJU)	N/A	<u>182</u> 001	27.5	UNL FL 140(8 700) Class A, D, G		↓	3) Common frequency  Airspace Classification refer to ENR 3.1-1
332305N 1263	3727E							
Z82 (RNAV2) [GNSS, DME/	<del>-</del>							Incheon ACC  FREQ: 124.525 MHz
332305N 1263	3727E	N/A	230 050	31.0	UNL FL 140(8 700) Class A, D, G		<b>\</b>	Airspace Classification refer to ENR 3.1-1
330014N 126 <sup>2</sup> 1. DME GAP : CJU/		S required.						

<sup>\*</sup> RNAV2 represents a navigation accuracy of ± 2 NM on a 95% containment basis.

Waypoint Upper limits Lower limits Direction of continuous levels	
Route designator (Navigation specification) Name of significant points Coordinates    IDENT of VOR/DME   VOR/DME   RAG Geodetic   FAMSL or FL   FAMSL or FL	Remarks trolling unit requency
1 2 3 4 5 6	7
Z83 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]   DALSEONG VORTAC(TGU)	
354835N 1283527E	125.375 MHz
352847N 1283340E ■ SARAM   192	125.775 MHz 124.575 MHz 122.75 MHz <sup>1)</sup>
350736N 1283147E	e Classification
344834N 1282952E	ENR 3.1-1
343758N 1282952E	
1. Critical DME: PSN <tgu masta="">, TGU<tgu masta="">, PSN<masta saram="">, TGU<masta saram="">,</masta></masta></tgu></tgu>	
PSN <saram engot="">, TGU<saram engot=""></saram></saram>	
2. DME GAP: ENGOT/ANROD, GNSS required.	
Z84 (RNAV2) [GNSS, DME/DME,	ACC 125.375 MHz
△ BUSAN VORTAC(PSN)	125.375 MHz 125.775 MHz 124.575 MHz 122.75 MHz <sup>2)</sup>
N/A 091 43.8 8 000(3 100) 2) Comm	non frequency  Classification
	ENR 3.1-1
INCHEON FIR FUKUOKA FIR	
Z85	
(RNAV2) Incheon [GNSS,	
	124.525 MHz 128.175 MHz 132.20 MHz <sup>3)</sup>
A PARITI	non frequency
333441N 1270337E N/A FL 170(1 500) Airspace	e Classification ENR 3.1-1
192   64.5   Class A, D, G   refer to	
192   64.5   Class A, D, G   refer to	
■ RUGMA(FIR BDRY) 64.5 Class A, D, G	
▲ RUGMA(FIR BDRY) 323012N 1265753E    192   011   64.5   Class A, D, G   refer to	

<sup>\*</sup> RNAV2 represents a navigation accuracy of ± 2 NM on a 95% containment basis.

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Route designator (Navigation specification) Name of significant points	Waypoint IDENT of VOR/DME			Upper limits Lower limits (MOCA) ft AMSL or FL	Directi cruising		
Coordinates [Navigation Specification	BRG & DIST ELEV DME	MAG TRACK	Geodetic DIST	Airspace		_	Remarks Controlling unit
limitation]	Antenna 2	3	NM 4	classification 5	Odd	Even	Frequency 10
Z86 (RNAV2) [GNSS, DME/DME/IRU]  △ BONSO 302840N 1250851E  ▲ ATOTI(FIR BDRY) 300013N 1251154E	N/A	181 001	28.5	UNL FL 140(1 500) Class A, D, G		<b>\</b>	Incheon ACC  FREQ: 124.525 MHz 132.20 MHz <sup>1)</sup> 1) Common frequency  Airspace Classification refer to ENR 3.1-1
INCHEON FIR FUKUOKA FIR  1. DME GAP : BONSO/ATOTI,	GNSS require	ed.					
Z91 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]   BUSAN VORTAC(PSN)							Daegu ACC FREQ: 125.375 MHz 125.775 MHz 124.575 MHz
350721N 1285958E  ▲ INVOK(FIR BDRY) 344719N 1291923E	N/A	149 329	25.6	UNL 10 000(3 000) Class A, D, G	<b>\</b>	1	122.75 MHz <sup>2)</sup> 2) Common frequency  Airspace Classification refer to ENR 3.1-1
INCHEON FIR							
FUKUOKA FIR							

<sup>\*</sup> RNAV2 represents a navigation accuracy of ± 2 NM on a 95% containment basis.

Route designator (Navigation specification) Name of significant points Coordinates [Navigation Specification limitation]	Waypoint IDENT of VOR/DME BRG & DIST ELEV DME Antenna	MAG TRACK	Geodetic DIST NM 4	Upper limits Lower limits (MOCA) ft AMSL or FL Airspace classification 5		ion of plevels	Remarks Controlling unit Frequency 10
Y590 (RNAV2) [GNSS, DME/DME/IRU] FUKUOKA FIR							Incheon ACC FREQ: (At or above FL 335)
INCHEON FIR  ▲ BEDAR(FIR BDRY)							133.425 MHz 134.15 MHz
315401N 1262910E		<u>263</u> 082	28.9				132.20 MHz <sup>1)</sup> (below FL 335) 125.725 MHz 132.825 MHz
314653N 1255617E  △ IKEDO	N/A	<u>262</u> 082	14.5	UNL FL 240(1 500) Class A, G			128.375 MHz 132.20 MHz <sup>1)</sup>
314314N 1253948E		<u>288</u> 108	34.5		<b>↑</b>		1) Common frequency  Airspace Classification 2 refer to ENR 3.1-1
314948N 1250000E							1000 10 2.41 0.1 1

<sup>1.</sup> DME GAP : BEDAR/SADLI, GNSS required.

Flight Level Allocation Scheme (FLAS)
 For the eastbound over BEDAR: FL 250, FL 290, FL 310, FL 390

<sup>\*</sup> RNAV2 represents a navigation accuracy of ± 2 NM on a 95% containment basis.

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