## **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	MAG TRACK 3	Geodetic DIST NM	Upper limits Lower limits or (MOCA) ft AMSL or FL Airspace classification	crui lev Odd	ion of sing rels Even	Remarks Controlling unit Frequency
L512 (RNAV2) [GNSS, DME/DME, DME/DME/IRU] TENAS 373820N 1313427E		098	52.3		<b>→</b>		Daegu ACC FREQ: 122.250(125.925) MHz 263.350(263.85) MHz Airspace Classification refer to ENR 3.1-1
△ SABET 373829N 1324019E  ▲ ANDOL(FIR BDRY) 373958N 1330000E	N/A	279 093 274	15.7	UNL FL 270(1 500) Class A, G		<u> </u>	* L512 OPS HR between TENAS and ANDOL  - EASTBOUND : H24  - WESTBOUND : H24  ** After ANDOL, MEA is FL 290 see AIP JAPAN.
INCHEON FIR FUKUOKA FIR Critical DME: KAE <tenas andol,<="" dme="" gap:="" s="" sabet="" td=""><td></td><td></td><td>SABET&gt;</td><td></td><td></td><td></td><td>*** Extended DME DOC volume service is 220 NM.</td></tenas>			SABET>				*** Extended DME DOC volume service is 220 NM.
Y233 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]							Daegu ACC FREQ: 122.250(125.925) MHz 263.350(263.85) MHz
△ BUSKO 374033N 1301610E △ SELPA 375515N 1304911E		069 250	30.0	- UNL	<b>\</b>		Airspace Classification refer to ENR 3.1-1
<ul> <li>△ ONATA 382832N 1320602E</li> <li>▲ KANSU(FIR BDRY)</li> </ul>	N/A	070 251 071 251	69.1	FL 200(1 500) Class A, D, G		1	
383800N 1322830E INCHEON FIR							

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

Change: Information of frequencies.

Na Na	Route designator Javigation specification) ame of significant points Coordinates ation Specification limitation]	Waypoint IDENT of VOR/DME BRG & DIST ELEV DME Antenna	MAG TRĄCK	Geodetic DIST NM	Upper limits Lower limits (MOCA) ft AMSL or FL Airspace classification	Direct cruising Odd	ion of levels	Remarks Controlling unit Frequency
	1	2	3	4	5	(	3	7
	Y253 (RNAV2) [GNSS, DME/DME, DME/DME/IRU] DALSU							Incheon ACC FREQ: (at or below FL 255) 120.725(128.30) MHz
	350731N 1264206E		<u>097</u> 277	5.4	UNL 8 000(2 400) Class A, D, G	<b>\</b>		263.90(272.75) MHz  FREQ: (above FL 255) 123.725(124.50) MHz
	GWANGJU VOR(KWA) 350734N 1264844E		<u>097</u> 278	2.6	UNL 8 000(2 000) Class A, D, G			239.25(275.40) MHz Airspace Classification refer to ENR 3.1-1
	SAMUL 350736N 1265154E		<u>097</u> 278	22.1	UNL 8 000(5 200) Class A, D, G			
	TEDAN 350744N 1271852E ANUBA		<u>098</u> 278	13.5	UNL			Daegu ACC
	350746N 1273523E SAPDI	N/A	<u>098</u> 278	44.7	8 000(5 400) Class A, D, G			128.175(128.325) MHz 335.50(275.20) MHz Airspace Classification refer to ENR 3.1-1
	350737N 1282952E SARAM		<u>098</u> 278	1.6	UNL 8 000(2 400) Class A, D, G			
	350736N 1283147E ANKUS		<u>098</u> 279	11.9	UNL 8 000(4 000) Class A, D, G			Daegu ACC FREQ: 125.375(125.775,
	350730N 1284616E		<u>099</u> 279	11.2	UNL 8 000(3 500) Class A, D, G			124.575) MHz 234.15(317.35, 335.50) MHz Airspace Classification
	BUSAN VORTAC(PSN) 350721N 1285958E				2.552 / , 2, 0		<u> </u>	refer to ENR 3.1-1

<sup>1.</sup> Critical DME: PSN<SAPDI/SARAM>, CJU<SAPDI/SARAM>, PSN<SARAM/ANKUS>, CJU<SARAM/ANKUS>, PSN<ANKUS/PSN>, CJU<ANKUS/PSN>

Change: Information of controlling unit and frequencies.

 $<sup>^{\</sup>star}$  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		ion of levels	Remarks Controlling unit Frequency
1	2	3	4	5		⊑ven 3	7
Y437 (RNAV2) [GNSS,DME/DME, DME/DME/IRU]   GANGWON VORTAC(KAE)	2	3	4	3			Daegu ACC  FREQ: (at or below FL 295) 134.175(123.65) MHz 272.40(233.60) MHz
374203N 1284514E		100 280	44.3	UNL 8 000(6 400) Class A, D, G	<b>\</b>		FREQ: (above FL 295) 122.250(125.925) MHz 263.350(263.85) MHz
374116N 1294104E		<u>100</u> 280	7.8				Airspace Classification refer to ENR 3.1-1
374105N 1295051E	N/A	100 281	20.1	UNL 8 000(1 500) Class A. D. G			Daegu ACC
374033N 1301610E		<u>101</u> 281	62.2				FREQ: 122.250(125.925) MHz 263.350(263.85) MHz
373820N 1313427E  △ MALSO		044 224	20.0	UNL			Airspace Classification refer to ENR 3.1-1
375440N 1314904E  • KANSU(FIR BDRY)		044 225	53.3	FL 200(1 500) Class A, D, G		<u> </u>	
383800N 1322830É							
INCHEON FIR							
PYONGYANG FIR							

1. Critical DME: KAE<KAE/LESBU>, KPO<KAE/LESBU>, KAE<LESBU/UGOVI>, KPO<LESBU/UGOVI>, KAE<UGOVI/BUSKO>, KPO<UGOVI/BUSKO>, KAE<BUSKO/TENAS>, KPO<BUSKO/TENAS>,

KAE<TENAS/MALSO>, KPO<TENAS/MALSO>

2. DME GAP: MALSO/KANSU GNSS required.

Change: Information of Y437.

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

Na	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	cruising Odd	ion of levels  Even	Remarks Controlling unit Frequency 7
•	Y571 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]	-	J	·	J			Incheon ACC  FREQ: 124.525(132.425) MHz 255.40(233.50,
Δ	330012N 1262735E		048 229	17.4	UNL 11 000(1 500) Class A, D, G	<b>\</b>		348.10) MHz  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
•	341519N 1275835E ANROD		056 237	34.4	UNL 11 000(2 100) Class A, D, G			128.175(128.325) MHz 335.50(275.20) MHz Airspace Classification
Δ	343758N 1282952E		<u>057</u> 237	26.6	UNL 11 000(2 800) Class A, D, G			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							

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

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ENR 3.3 - 4

19 OCT 2023

Na	Route designator lavigation 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 5	cruising Odd	ion of levels	Remarks Controlling unit Frequency
Δ	Y572 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]  BUSAN VORTAC(PSN)		J	7	J			Daegu ACC  FREQ: 128.175(128.325) MHz 335.50(275.20) MHz
Δ	350721N 1285958E OLMUD		<u>249</u> 069	10.1	UNL 11 000(3 000) Class A, D, G		<b>\</b>	Airspace Classification refer to ENR 3.1-1
•	350225N 1284916E ENGOT		<u>237</u> 057	21.1	UNL 11 000(3 200) Class A, D, G			
_	344834N 1282952E POVOR		<u>237</u> 056	50.4	UNL 11 000(2 600) Class A, D, G			
_	341520N 1274400E UPGOS		<u>236</u> 056	26.8	UNL 11 000(2 000) Class A, D, G			
_	335733N 1271953E		236 056	17.0	UNL 11 000(1 500) Class A, D, G			Incheon ACC
Δ	BILUM 334613N 1270439E	N/A	236 056	10.5	UNL 11 000(1 500) Class A, D, G			124.525(132.425) MHz 255.40(233.50, 348.10) MHz
Δ	BEPKO 333910N 1265514E		230 050	21.9	UNL 11 000(5 600) Class A, D, G			Airspace Classification refer to ENR 3.1-1
Δ	JEJU VORTAC(CJU) 332305N 1263727E		<u>169</u> 349	10.2	UNL 11 000(8 700) Class A, D, G		<b>\</b>	* The cruising levels from CJU to RUGMA are even levels due to operational
^	OMKIM 331320N 1264114E		<u>169</u> 349	13.8	UNL 11 000(1 500) Class A, D, G			* The cruising levels from RUGMA to CJU
•	TOSAN 330012N 1264619E		<u>169</u> 349	31.5	UNL 11 000(1 500) Class A, D, G			are odd levels due to operational reasons.
<b>A</b>	RUGMA(FIR BDRY) 323012N 1265753E				Udss A, D, G	<b>1</b>		
	INCHEON FIR FUKUOKA FIR							

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

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<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 plevels	Remarks Controlling unit Frequency
7	2	3	4	5	,	3	/
Y579 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]   TENAS							Daegu ACC  FREQ: 122.250(125.925) MHz 263.350(263.85) MHz
373820N 1313427E		<u>228</u> 047	68.1			<b>\</b>	Airspace Classification refer to ENR 3.1-1
364521N 1304044E		<u>229</u> 049	36.2	UNL FL 140(1 500) Class A, D, G			
361743N 1301143E	N/A	<u>229</u> 048	28.1				Daegu ACC
355609N 1294924E		<u>228</u> 048	40.2	UNL FL 140(2 700) Class A, D, G			FREQ: 120.575(119.375, 119.325, 134.375) MHz 254.70(335.75) MHz
352513N 1291754E  △ BUSAN VORTAC(PSN)		<u>228</u> 047	23.1	UNL FL 140(3 800) Class A, D, G	<b>†</b>  ↑		Airspace Classification refer to ENR 3.1-1
350721N 1285958E							1

<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.

			1				
				Upper limits			
Doute designate:	Maymaint			Lower limits		ion of	
Route designator (Navigation specification)	Waypoint IDENT of			(MOCA) ft AMSL or FL	cruising	levels	
Name of significant points	VOR/DME			IL AIVISE OF FE			
Coordinates [Navigation Specification	BRG & DIST	MAG TRACK	Geodetic DIST	Aironaga			Remarks
limitation	Antenna	INACK	NM	Airspace classification	Odd	Even	Controlling unit Frequency
1	2	3	4	5		6	7
Y644							D 400
(RNAV2)							Daegu ACC
[GNSS, DME/DME,							FREQ: (at or below FL 295)
DME/DME/IRU]							128.70(118.925) MHz
SANGHAI FIR							270.50(263.60) MHz
INCHEON FIR							
							FREQ: (above FL 295)
▲ AGAVO(FIR BDRY)							132.80(120.525) MHz
371000N 1240000E		095	14.0		↓		290.60(335.45) MHz
		276	11.8				
△ RILRO 371033N 1241442E				_			
37 1033N 1241442L		096	8.1				Eastbound
△ GONAV		276					(AGAVO-EGOBA) FL 410, FL 390, FL 370,
371048N 1242453E		096	20.0	UNL			FL 350, FL 330, FL 310,
△ BODOL		277	20.0	FL 150(1 500)			FL 290, FL 270, FL 250,
371122N 1244954E		097		Class A, D, G			FL 230
A DEDIT		277	31.4				
▲ REBIT 371203N 1252913E				-			REF.
37 12031N 1232913L		097					ENR 3.1-10 for the
		<del>278</del>	15.0				detailed altitude
△ BELTU							conversion procedures.
371218N 1254759E	N/A			UNL			Airspace Classification
		<u>098</u>	32.1	8 000(2 400)			refer to ENR 3.1-1
		278		Class A, D, G			TOTAL SETTING
△ BOGAN							
371241N 1262812E		098		UNL			
		278	17.6	8 000(3 200)			
▲ MONSI				Class A, D, G			
371247N 1265015E				UNL			
		<u>098</u>	7.5	8 000(2 400)			
		278		, ,			
△ POLEG				Class A, D, G			
371249N 1265935E		057		UNL			
		237	24.7	FL 140(3 300)			
△ EGOBA		207		Class A, D, G			
372915N 1272246E							†
					l	1	

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

		Route designator Navigation specification) ame of significant points Coordinates lation 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		ion of levels	Remarks Controlling unit Frequency
		Y655	2	3	4	5	6	3	7
		(RNAV2)							Daegu ACC
		[GNSS, DME/DME, DME/DME/IRU]							FREQ: (at or below FL 295) 128.70(118.925) MHz
		DINIE/DINIE/IIKO]							270.50(263.60) MHz
	$\triangle$	GONAV 371048N 1242453E							FREQ: (above FL 295)
		37 1040N 1242433L		<u>188</u> 008	12.2		*		132.80(120.525) MHz 290.60(335.45) MHz
	$\triangle$	DALPO		000					Airspace Classification
		365835N 1242453E		<u>188</u> 008	17.8				refer to ENR 3.1-1
	•	NONOS 364046N 1242453E		000					
		304040IN 1242433E		<u>188</u>	20.6				
	•	BIDRI		800					
		362007N 1242453E		<u>188</u> 008	49.4				Incheon ACC
ı	•	DANPA		000		UNL			FREQ: (below FL 255) 126.175(134.375) MHz
		353036N 1242453E				FL 140(1 500)			317.85(335.55) MHz FREQ: (at or above FL 255)
				<u>188</u>	88.9	Class A, D, G			132.15(123.55) MHz
				007					263.15(272.60) MHz Airspace Classification
	•	PALSA							refer to ENR 3.1-1
		340131N 1242453E							Incheon ACC
			N/A						FREQ : (below FL 255) 120.725(128.30) MHz
				187 007	11.0				263.90(272.75) MHz
				007	11.0				FREQ: (at or above FL 255) 123.725(124.50) MHz
									239.25(275.40) MHz
	$\triangle$	TOLIS							Airspace Classification refer to ENR 3.1-1
		335030N 1242453E							Incheon ACC
				177		UNL			FREQ: 124.525(132.425) MHz
				356	99.0	FL 430(1 500)			255.40(233.50, 348.10) MHz
						Class A, G			Airspace Classification
	•	ENSUM 321302N 1244635E				EL 220			refer to ENR 3.1-1
				<u>176</u> 356	105.9	FL 220 FL 150(1 500)			Incheon ACC FREQ: (below FL 335)
	$\triangle$	BONSO 302840N 1250851E				Class A, D			125.725(132.825, ´
		302040N 1230031L		181	28.5	Oldos 71, B			128.375) MHz 232.95(233.15) MHz
	•	ATOTI(FIR BDRY) 300013N 1251154E		001					FREQ: (at or above FL 335)
									133.425(132.425) MHz 234.35(234.65) MHz
F		INCHEON FIR FUKUOKA FIR							Airspace Classification refer to ENR 3.1-1
ı	1. Critic	: FUKUUKA FIR :: SEL <gonav dalpo:<="" td=""><td>&gt;, KUZ<gona< td=""><td>V/DALPO&gt;, SI</td><td>EL<dalpo n<="" td=""><td>IONOS&gt;, KUZ<dai< td=""><td>_PO/NON</td><td>IOS&gt;, SE</td><td></td></dai<></td></dalpo></td></gona<></td></gonav>	>, KUZ <gona< td=""><td>V/DALPO&gt;, SI</td><td>EL<dalpo n<="" td=""><td>IONOS&gt;, KUZ<dai< td=""><td>_PO/NON</td><td>IOS&gt;, SE</td><td></td></dai<></td></dalpo></td></gona<>	V/DALPO>, SI	EL <dalpo n<="" td=""><td>IONOS&gt;, KUZ<dai< td=""><td>_PO/NON</td><td>IOS&gt;, SE</td><td></td></dai<></td></dalpo>	IONOS>, KUZ <dai< td=""><td>_PO/NON</td><td>IOS&gt;, SE</td><td></td></dai<>	_PO/NON	IOS>, SE	
ı		KUZ <nonos bidri=""></nonos>	, SEL <bidri d<="" td=""><td>ANPA&gt;, KUZ&lt;</td><td>BIDRI/DANF</td><td>PA&gt;</td><td></td><td></td><td></td></bidri>	ANPA>, KUZ<	BIDRI/DANF	PA>			
ĺ	z. DIVIE	<u>: Gap : Danpa/Palsa, Palsa</u> <b>Y657</b>	VIULIS, IULI	o/⊏INOUIVI, EN	ISOINI/BONS	U, BUNSU/ATUTI	GINDO I	equirea.	Inches ACC
		(RNAV2)							Incheon ACC
		[GNSS, DME/DME, DME/DME/IRU]							FREQ: (at or below FL 255) 120.725(128.30) MHz
	^								263.90(272.75) MHz
	Δ	GWANGJU VOR(KWA) 350734N 1264844E				10 000	<b></b>		FREQ : (above FL 255) 123.725(124.50) MHz
		<del>.</del>		072	54.7	8 000(7 100)			239.25(275.40) MHz
	•	IGDOK	NI/A	253		Class D			Airspace Classification refer to ENR 3.1-1
	_	353104N 1274907E	N/A	070		10 000			Daegu ACC
				<u>073</u> 254	41.6	8 000(4 800)			FREQ:
	$\triangle$	DALSEONG VORTAC(TGU) 354835N 1283527E		=* •		Class D			125.375(125.775,
		004000IN 120002/E							124.575) MHz 234.15(317.35,
									335.50) MHz
									Airspace Classification refer to ENR 3.1-1

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

Change: Information of Y655.

OFFICE OF CIVIL AVIATION AIRAC AIP AMDT 4/24

Effective: 1600UTC 12 JUN 2024

N	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	Upper limits Lower limits (MOCA) ft AMSL or FL Airspace classification	Cruising	tion of g levels Even	Remarks Controlling unit Frequency
	7659 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]	2	3	4	5		6	Incheon ACC  FREQ: (at or below FL255)
Δ	GUNSAN VORTAC(KUZ) 355437N 1263641E		101			<b>\</b>		126.175(134.375) MHz 317.85(335.55) MHz
Δ	ELPOS 355410N 1264707E		<u>101</u> 281	8.5	10 000 7 000(1 700)			FREQ: (above FL 255) 132.15(123.55) MHz
$\triangle$	RINBO		<u>101</u> 281	5.5	Class D			263.15(272.60) MHz Airspace Classification
	355352N 1265349E		<u>101</u> 282	17.8	10 000 7 000(3 700)			refer to ENR 3.1-1
Δ	MELES 355251N 1271542E	N/A	102 282	17.2	Class D 10 000 7 000(5 000)			
Δ	OPEDA 355149N 1273652E	N/A	102 282	47.7	Class D 10 000 7 000(6 600)			Daegu ACC
Δ	DALSEONG VORTAC(TGU) 354835N 1283527E		085 265	24.6	Class D <u>UNL</u> 6 000(4 200)			FREQ: 125.375(125.775, 124.575) MHz
•	LAPAL 355413N 1290452E		<u>085</u>	19.7	Class A, D, G UNL 6 000(3 300)			234.15(317.35, 335.50) MHz Airspace Classification
Δ	POHANG VORTAC(KPO) 355838N 1292828E		265		Class A, D, G		<u> </u>	refer to ENR 3.1-1
Δ	Y677 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]							Incheon ACC FREQ: 124.525(132.425) MHz
_	335030N 1242453E		<u>111</u> 291	73.0	UNL 9 000(1 500) Class A, D, G	<b>\</b>		255.40(233.50, 348.10) MHz Airspace Classification
Δ	333313N 1254953E REMOS		<u>111</u> 292	29.0	UNL 9 000(4 100) Class A, D, G			refer to ENR 3.1-1
Δ	332605N 1262329E  JEJU VORTAC(CJU)	N/A	112 292	12.1	UNL 9 000(8 700)			
	332305N 1263727E		<u>089</u> 269	35.9	UNL 9 000(6 300)			
•	TAMNA 332815N 1271953E		<u>089</u> 270	49.8	Class A, D, G UNL 9 000(1 500)			
•	SAMDO(FIR BDRY) 333503N 1281857E				Class A, D, G		<u> </u>	
	INCHEON FIR FUKUOKA FIR							
2. DMI	cal DME: KWA <limdi remos<br="">CJU<tamna samdo<br="">E GAP: TOLIS/LIMDI, REMOS V2 represents a navigation acc</tamna></limdi>	D> 'CJU GNSS re	quired.			O/ I AIVIIV	~, roins	NAIVIINAY SAIVIDUP,

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

Change: Information of Y677, controlling unit and frequencies.

OFFICE OF CIVIL AVIATION Effective: 1600UTC 29 NOV 2023

Route designator (Navigation specification) Name of significant points Coordinates [Navigation Specification		MAG TRACK	Geodetic DIST	Upper limits Lower limits (MOCA) ft AMSL or FL Airspace		ion of levels	Remarks Controlling unit
limitation]	Antenna 2	3	NM 4	classification 5	Odd	Even	Frequency 7
Y685 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]							Daegu ACC FREQ: (at or below FL 295) 128.70(118.925) MHz 270.50(263.60) MHz
△ ANYANG VORTAC(SI 372449N 1265542E	EL)			UNL	<b>\</b>		FREQ : (above FL 295) 132.80(120.525) MHz 290.60(335.45) MHz
△ <b>KALMA</b>		133 313	10.7	8 000(3 200) Class A, D, G			Only flying westbound from KPO to SEL on Y685 is authorized except ACFT departing
371845N 1270645E  △ KAKSO		<u>133</u> 313	19.3	UNL 8 000(2 900) Class A, D, G			from RKTY or RKTI.  Aircraft flying eastbound from SEL to KPO at or above 11 000 ft on Y685
370745N 1272637E		133	11.5	UNL 8 000(3 600)			shall get PPR 24 hours before from Incheon/Daegu ACC. No PPR is needed at or
▲ GUKDO		313	11.0	Class A, D, G			below 10 000 ft.  Airspace Classification refer to ENR 3.1-1
370111N 1273823E		133 314	9.2	UNL 8 000(3 700)			Daegu ACC
△ ENSAL 365554N 1274747E	N/A	134 314	9.2	Class A, D, G UNL 8 000(4 000)			FREQ: 120.575(119.375, 119.325, 134.375) MHz 254.70(335.75) MHz
△ BASEM 365037N 1275710E		134 314	12.5	Class A, D, G			Only flying westbound from KPO to SEL on Y685 is authorized except ACFT departing
▲ BIGOB 364325N 1280952E		134 314	9.5	Class A, D, G UNL 8 000(4 900)			except ACFT departing from RKTY or RKTI.  Aircraft flying eastbound from SEL to KPO at or
△ YECHEON VOR(CUN 363755N 1281931E	)	133 314	30.8	Class A, D, G UNL 8 000(3 800)			above 11 000 ft on Y685 shall get PPR 24 hours before from Incheon/Daegu ACC.
△ ELAPI 362014N 1285051E		134 314	37.3	Class A, D, G UNL 8 000(4 700)			No PPR is needed at or below 10 000 ft.
△ POHANG VORTAC(KF 355838N 1292828E	PO)	107	17.2	Class A, D, G			Airspace Classification refer to ENR 3.1-1
▲ BULGA 355609N 1294924E		287		8 000(2 100) Class A, D, G UNL			
▲ SAPRA(FIR BDRY) 354926N 1304325E		107 287	44.4	8 000(1 500) Class A, D, G		<u> </u>	-
INCHEON FIR FUKUOKA FIR							-

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

Change : Information of frequencies.

OFFICE OF CIVIL AVIATION

AIRAC AIP AMDT 11/23 Effective: 1600UTC 29 NOV 2023

			1		ı		
Route designator (Navigation specification) Name of significant points	Waypoint IDENT of VOR/DME			Upper limits Lower limits (MOCA)		tion of g levels	
Coordinates [Navigation Specification limitation]	BRG & DIST ELEV DME Antenna	MAG TRACK	Geodetic DIST NM 4	ft AMSL or FL Airspace classification 5	Odd	Even	Remarks Controlling unit Frequency
Y697							Daegu ACC
(RNAV2) [GNSS, DME/DME,							FREQ: (at or below FL 295)
DME/DME/IRU] SANGHAI FIR							128.70(118.925) MHz (
INCHEON FIR							270.50(263.60) MHz
▲ AGAVO(FIR BDRY)							FREQ: (above FL 295)
371000N 1240000É  ▲ OLBIM		<u>064</u> 244	7.5				132.80(120.525) MHz´ 290.60(335.45) MHz
371411N 1240751E		<u>066</u> 246	16.2				Westbound(SEL-AGAVO) FL 400, FL 380, FL 360, FL 340, FL 320, FL 300,
△ NOGON 372250N 1242505E				UNL			FL 280, FL 260, FL 240, FL 220, FL 200
△ ANSIM		<u>097</u> 277	20.0	FL 150(1 500) Class A, D, G			REF. ENR 3.1-9 for the detailed altitude
372323N 1245009E		<u>097</u> 277	19.0				conversion procedures.  Only flying westbound
372349N 1251359E		<u>097</u> 277	20.0				from SEL to AGAVO on Y697 is authorized.
▲ NOPIK 372412N 1253905E		<u>097</u> 278	41.0	UNL 8 000(2 100)			
△ GOGET 372442N 1263036E		<u>098</u> 278	20.0	Class A, D, G UNL			
△ ANYANG VORTAC(SEL) 372449N 1265542E				7 500(3 400)	J	1	
△ EGOBA		087 267	22.0	Class A, D, G	ľ		
372915N 1272246E	N/A	<u>087</u> 267	13.9	UNL 7 500(5 100) Class A, D, G			
373159N 1273952E		<u>087</u> 268	22.9	UNL 7 500(4 500)			Daegu ACC
▲ TORUS 373625N 1280807E		088		Class A, D, G			FREQ: (at or below FL 295) 134.175(123.65) MHz 272.40(233.60) MHz
▲ BIKSI		268	21.8	7 500(7 500) Class A, D, G			FREQ: (above FL 295)
374032N 1283504E		088	0.0	UNL			122.250(125.925) MHz 263.350(263.85) MHz
△ GANGWON VORTAC(KAE)		268	8.2	7 500(7 100) Class A, D, G			, ,
374203N 1284514E		<u>130</u>		UNL			Airspace Classification refer to ENR 3.1-1
▲ PILIT 372631N 1291731E		310	30.0	8 000(7 100) Class A, D, G			
▲ ESNEG		130 310	31.2				
371014N 1295051E  △ AGSUS		130 310	47.1	UNL 9 000(1 500) Class A, D, G			Daegu ACC FREQ: 122.250(125.925) MHz 263.350(263.85) MHz
364521N 1304044E  ▲ LANAT(FIR BDRY)		<u>130</u> 311	42.9	Gass P, D, G		<b>↑</b>	Only flying westbound from LANAT to KAE on G597 shall get 24HR PPR from Daegu ACC.
362224N 1312542E							Airspace Classification
INCHEON FIR FUKUOKA FIR							refer to ENR 3.1-1
1 Critical DME : SEL <agavo ol<="" td=""><td>LDIMS KLIZZAC</td><td>AVO/OLDIM</td><td>&gt; 0FL -0LF</td><td>DIM/NIOCONS IZILI</td><td>7 - OL DIM</td><td>/NIOOONI</td><td>CEL AND CONTANIONA</td></agavo>	LDIMS KLIZZAC	AVO/OLDIM	> 0FL -0LF	DIM/NIOCONS IZILI	7 - OL DIM	/NIOOONI	CEL AND CONTANIONA

<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/ESNEG>, KPO<PILIT/ESNEG>, KAE<ESNEG/AGSUS>, KPO<ESNEG/AGSUS>, KAE<AGSUS/LANAT>, KPO<AGSUS/LANAT>

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

					Upper limits	F.		
	Route designator	Waypoint			Lower limits		tion of levels	
,(Na	vigation specification)	IDENT of			(MOCA)			
Nam	ne of significant points Coordinates	VOR/DME BRG & DIST	MAG	Geodetic	ft AMSL or FL			Remarks
[Na	vigation Specification	ELEV DME	TRACK	DIST	Airspace	044	<b>-</b>	Controlling unit
	limitation]	Antenna 2	3	NM 4	classification 5	Odd	Even	Frequency 10
	Y711							Daegu ACC
	(RNAV2) [GNSS, DME/DME,							FREQ: (at or below FL 295)
	DME/DME/IRU]							128.70(118.925) MHz 270.50(263.60) MHz
•	MONSI							FREQ: (above FL 295)
	371247N 1265015E						↓	132.80(120.525) MHz
			<u>190</u> 010	29.4	UNL			290.60(335.45) MHz
•	BULTI		010		FL 140(2 900)			Airspace Classification refer to ENR 3.1-1
	364322N 1264930E		187		Class A, D, G			
•	MEKIL		007	10.0				Incheon ACC
	363322N 1264953E		407					FREQ: (at or below FL 255)
			187 006	10.2	UNL			126.175(134.375) MHz 317.85(335.55) MHz
Δ	GONAX 362311N 1265016E				FL 140(3 200)			FREQ: (above FL 255)
			<u>193</u> 013	14.1	Class A, D, G			132.15(123.55) MHz (
Δ	BEDES 360905N 1264844E		010		UNL			263.15(272.60) MHz
	000000N 1204044E		<u>193</u> 013	14.9	FL 140(2 200)			Airspace Classification refer to ENR 3.1-1
Δ	ELPOS		013		Class A, D, G			10.01 10 2.111 0.1 1
	355410N 1264707E		<u>193</u>	24.0	UNL FL 140(2 800)			
•	MANGI		013	24.0	Class A, D, G			
	353011N 1264432E		193		UNL			Incheon ACC
Δ	DALSU		013	22.7	FL 140(3 800) Class A, D, G			FREQ: (at or below FL 255)
	350731N 1264206E		193		UNL			120.725(128.30) MHz 263.90(272.75) MHz
Δ	NULDI		013	42.4	FL 140(4 000)			FREQ: (above FL 255)
	342514N 1263739E				Class A, D, G UNL			123.725(124.50) MHz
		N/A	<u>193</u> 013	10.0	FL 140(3 300)			239.25(275.40) MHz Airspace Classification
•	DOTOL		013		Class A, D, G			refer to ENR 3.1-1
	341515N 1263637E		<u>193</u>	24.8	UNL FL 140(2 700)			Incheon ACC
Δ	KIDOS		012	24.0	Class A, D, G			FREQ:
	335028N 1263402E		207		UNL			124.525(132.425) MHz
Δ	REMOS		027	25.9	FL 140(6 000) Class A, D, G			255.40(233.50, 348.10) MHz
_	332605N 1262329E		207		UNL			Airspace Classification
•	PANSI		027	27.4	FL 140(6 300)			refer to ENR 3.1-1
	330014N 1261225E		207		Class A, D, G			
Δ	DOMKO		027	33.4				
	322848N 1255859E		207	00 :				Incheon ACC
Δ	PONIK		027	30.1				FREQ: (At or above FL 335)
	320021N 1254659E		207	40.0				133.425(132.425) MHz
Δ	IKEDO		026	18.2	UNL			234.35(234.65) MHz
	314314N 1253948E		207		FL 140(1 500)			FREQ: (below FL 335) 125.725(132.825,
•	KANKA		026	12.0	Class A, D, G			128.375) MHz 232.95(233.15) MHz
_	313155N 1253504E		207		•			* Note
	BONSO		207 026	67.0				Any aircraft planning to
	302840N 1250851E		200					operate below FL 320 after MUGUS must use
			<u>206</u> 026	30.2				Z86 between BONSO
•	MUGUS(FIR BDRY) 300006N 1245712E							and ATOTI, then use B576.
								Airspace Classification
	INCHEON FIR FUKUOKA FIR							refer to ENR 3.1-1
1 Critic	TOROURA LIK	IDOCS CILLADOT	TOL/KIDOS>					1

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.

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 limitation]	ELEV DME Antenna	TRACK 3	DIST NM 4	Airspace classification 5	Odd	Even	Controlling unit Frequency 10
Y722 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]	2	3	7	J	•		Incheon ACC FREQ: (at or below FL 255) 126.175(134.375) MHz
△ SONGTAN VORTAC(SOT) 370540N 1270154E		194		UNL			317.85(335.55) MHz
▲ OLMEN 364413N 1265928E		014	21.5	FL 140(3 100) Class A, D, G UNL			FREQ: (above FL 255) 132.15(123.55) MHz 263.15(272.60) MHz
△ GUNKU		187 007	10.0	FL 140(3 600) Class A, D, G			Airspace Classification refer to ENR 3.1-1
363414N 1265949E ▲ PEBRI		<u>187</u> 007	11.0	UNL FL 140(3 300) Class A, D, G			
362311N 1270013E		<u>193</u> 013	29.5	UNL FL 140(2 300)			
△ ATASO 355344N 1265657E		<u>193</u> 013	23.6	Class A, D, G UNL FL 140(3 800)			Incheon ACC
▲ MAKSA 353011N 1265422E		<u>193</u>	22.7	Class A, D, G UNL FL 140(4 000)			FREQ: (at or below FL 255) 120.725(128.30) MHz 263.90(272.75) MHz
△ SAMUL 350736N 1265154E		013	22.7	Class A, D, G			FREQ: (above FL 255) 123.725(124.50) MHz 239.25(275.40) MHz
▲ KAMIT		<u>193</u> 013	52.5	FL 140(3 400) Class A, D, G			Airspace Classification refer to ENR 3.1-1
341514N 1264618E	N/A	<u>193</u> 013	22.4	UNL FL 140(2 100)			Incheon ACC
335251N 1264357E		<u>193</u> 012	19.6	Class A, D, G UNL FL 140(1 700)			FREQ: 124.525(132.425) MHz 255.40(233.50,
△ LOSNI 333315N 1264153E		207	10.8	Class A, D, G UNL FL 140(7 600)			348.10) MHz  Airspace Classification
△ JEJU VORTAC(CJU) 332305N 1263727E		027 <u>207</u>		Class A, D, G UNL			refer to ENR 3.1-1
▲ SOSDO 330012N 1262735E		027 207	24.3	FL 140(8 700) Class A, D, G			
△ SAMLO 323223N 1261536E		207 027 207	29.5				Incheon ACC
△ NIRAT 320354N 1260329E		027	30.2	UNL			FREQ: (At or above FL 335) 133.425(132.425) MHz
△ ELGEP 314653N 1255617E		<u>207</u> 027	18.1	FL 140(1 500) Class A, D, G			234.35(234.65) MHz
▲ TESIM 313526N 1255128E		<u>207</u> 027	12.1				FREQ: (below FL 335) 125.725(132.825, 128.375) MHz
▲ ATOTI(FIR BDRY)		<u>207</u> 026	100.9		<u></u>		232.95(233.15) MHz Airspace Classification
300013N 1251154E INCHEON FIR SANGHAI FIR							refer to ENR 3.1-1

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SANGHAI FIR

1. 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.

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

	Waypoint			Upper limits	Direction of	
Route designator (Navigation specification) Name of significant points Coordinates [Navigation Specification limitation]	IDENT of VOR/DME BRG & DIST ELEV DME	MAG TRACK	Geodetic DIST NM	Lower limits (MOCA) ft AMSL or FL Airspace classification	cruising levels  Odd Even	Remarks Controlling unit Frequency
1	2	3	4	5	6	7
Y744 (RNAV2) [GNSS, DME/DME,	_					Daegu ACC FREQ (at or below FL 295)
DME/DME/IRU]						134.175(123.65) MHz 272.40(233.60) MHz
▲ PILIT 372631N 1291731E		183		UNL	<b>↓</b>	FREQ : (above FL 295) 122.250(125.925) MHz 263.350(263.85) MHz
		003	19.3	9 000(4 900) Class A, D, G		1. 11 000 ft to FL 240, at or above FL 280 will be blocked.
▲ NOBUT 370715N 1291957E		183	28.6	UNL 9 000(5 600)		At or above 11 000 ft, required 15 days PPR from Air Traffic Management Office.
▲ OSVOM		003		Class A, D, G		3. Airspace Classification refer to ENR 3.1-1
363844N 1292331E	N/A	183 003	18.5	9 000(4 000) Class A, D, G		Daegu ACC FREQ:
362016N 1292548E		183 003	21.7	9 000(2 100)		120.575(119.375, 119.325, 134.375) MHz 254.70(335.75) MHz
△ POHANG VORTAC(KPO) 355838N 1292828E		<u>213</u> 033	37.2	Class A, D, G UNL 9 000(4 400)		1. 11 000 ft to FL 240, at or above FL 280 will be blocked.
▲ APARU 352442N 1290932E	_	<u>213</u> 032	19.0	UNL 9 000(4 400)		At or above 11 000 ft, required 15 days PPR from Air Traffic Management Office.
△ BUSAN VORTAC(PSN) 350721N 1285958E				Class A, D, G	<u> </u>	Airspace Classification refer to ENR 3.1-1
1. Critical DME : KAE <pilit nobu<="" td=""><td>IT&gt;, KPO<pil< td=""><td>.IT/NOBUT:</td><td>&gt;</td><td></td><td></td><td></td></pil<></td></pilit>	IT>, KPO <pil< td=""><td>.IT/NOBUT:</td><td>&gt;</td><td></td><td></td><td></td></pil<>	.IT/NOBUT:	>			
Y781 (RNAV2) [GNSS, DME/DME,						Daegu ACC
DME/DME/IRU]						FREQ :
△ DALSEONG VORTAC(TGU)						125.375(125.775, 124.575) MHz
354835N 1283527E  MASTA		<u>192</u> 012	19.8	UNL 7 000(4 900) Class A. D. G	<b> </b>	234.15(317.35, 335.50) MHz
352847N 1283340E		<u>162</u> 342	23.6	UNL 7 000(4 000)		Airspace Classification refer to ENR 3.1-1
△ ANKUS 350730N 1284616E	N/A			Class A, D, G UNL		
△ OMOTU		<u>162</u> 342	7.7	7 000(3 500) Class A, D, G		
350033N 1285022E <b>A</b> BESNA(FIR BDRY)		<u>156</u> 336	27.3	UNL 7 000(2 800) Class A, D, G		
343718N 1290751E				Jaco 7, D, O		
INCHEON FIR						
FUKUOKA FIR  1. Critical DME: PSN <omotu be<="" td=""><td>SNA&gt; CILIZ</td><td>OMOTI I/RE</td><td>EQNIA&gt;</td><td></td><td></td><td></td></omotu>	SNA> CILIZ	OMOTI I/RE	EQNIA>			

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

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

Change: Information of Y744.

OFFICE OF CIVIL AVIATION AIRAC AIP AMDT 4/24

Effective: 1600UTC 12 JUN 2024

Ν̈́ε	Route designator lavigation specification) me of significant points Coordinates lavigation 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		ion of levels	Remarks Controlling unit Frequency
	1	2	3	4	5	6		7
	Y782 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]							Daegu ACC FREQ: (at or below FL 295)
Δ	ANYANG VORTAC(SEL)				LINII			128.70(118.925) MHz 270.50(263.60) MHz
Δ	372449N 1265542E POLEG		174 354	12.4	UNL 4 500(3 000) Class A, D, G	<b> </b>		FREQ : (above FL 295) 132.80(120.525) MHz
Δ	371249N 1265935E SONGTAN VORTAC(SOT)		<u>174</u> 354	7.4	UNL 4 500(2 000) Class A. D. G			290.60(335.45) MHz Airspace Classification
	370540N 1270154E		144 324	21.6	UNL			refer to ENR 3.1-1
•	OSPOT 365018N 1272055E		144	10.4	8 000(3 300) Class A, D, G			Daegu ACC
•	VASLI 364252N 1273003E		324 144					FREQ:
•	MAKDU 362712N 1274909E	N/A	324	21.9	UNL 8 000(4 200)			125.375(125.775, 124.575) MHz 234.15(317.35,
•	BITUX		<u>144</u> 324	14.6	Class A, D, G			335.50) MHz
$\triangle$	361645N 1280148E  DALSEONG VORTAC(TGU)		144 324	39.2	UNL 10 000(4 500) Class A, D, G			Airspace Classification refer to ENR 3.1-1
•	354835N 1283527E  KALOD		162 342	20.4	UNL 8 000(4 400)			
_	353012N 1284626E		<u>162</u> 342	25.4	Class A, D, G UNL 5 000(3 600)			
Δ	BUSAN VORTAC(PSN) 350721N 1285958E		162		Class A, D, G UNL			
•	APELA(FIR BDRY) 344323N 1291400E		342	26.6	4 000(3 000) Class A, D, G			
	INCHEON FIR							
	FUKUOKA FIR							

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

1. Critical DME: SEL<SEL/POLEG>, SOT<SEL/POLEG>, SEL<POLEG/SOT>, SOT<POLEG/SOT>

Change: Information of frequencies.

Na	Route designator Navigation specification) me 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	Direction of cruising levels  Odd Even	Remarks Controlling unit Frequency 7
	Z50 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]						Daegu ACC  FREQ: (at or below FL 295) 128.70(118.925) MHz 270.50(263.60) MHz
	EGOBA 372915N 1272246E SONGTAN VORTAC(SOT)		<u>224</u> 044	28.8	UNL FL 140(3 300) Class A, D, G	<b>1</b>	FREQ: (above FL295) 132.80(120.525) MHz 290.60(335.45) MHz
<b>▲</b>	370540N 1270154E BULTI	N/A	213 032	24.4	UNL FL 140(2 900) Class A, D, G	1	Airspace Classification refer to ENR 3.1-1
	364322N 1264930E						
•	Z51 (RNAV2) [GNSS, DME/DME, DME/DME/IRU] BOPTA 364406N 1263658E						Incheon ACC  FREQ: (at or below FL 255) 126.175(134.375) MHz 317.85(335.55) MHz
Δ	MOXID 362311N 1264359E	N/A	173 353	21.6	UNL FL 150(3 900) Class A, D, G UNL		FREQ : (above FL 255) 132.15(123.55) MHz 263.15(272.60) MHz
Δ	BEDES 360905N 1264844E		173 353	14.6	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: (at or below FL 255)
•	OLMEN 364413N 1265928E				UNL	<b>\</b>	126.175(134.375) MHz 317.85(335.55) MHz
Δ	POSAN 365615N 1271316E	N/A	<u>051</u> 231	16.4	8 000(3 400) Class A, D, G		FREQ: (above FL 255) 132.15(123.55) MHz 263.15(272.60) MHz
Δ	KAKSO 370745N 1272637E		051 232	15.7	UNL 8 000(3 000) Class A, D, G	1	Airspace Classification refer to ENR 3.1-1
	070740N 1272037E						
	Z53 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]						Daegu ACC FREQ: (at or below FL 295)
•	BITUX 361645N 1280148E		002	17.0	UNL FL 160(4 000)	<b>\</b>	128.70(118.925) MHz 270.50(263.60) MHz FREQ : (above FL 295)
Δ	TEBEX 363341N 1275929E	N/A	182 <u>002</u>	17.0	Class A, D, G  UNL FL 160(4 600)		132.80(120.525) MHz 290.60(335.45) MHz
Δ	BASEM 365037N 1275710E		182	17.0	Class A, D, G	<u> </u>	Airspace Classification refer to ENR 3.1-1

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

	Route designator	Waypoint IDENT of VOR/DME			Upper limits Lower limits (MOCA)	Direct	tion of	
N	Navigation specification) ame of significant points Coordinates gation Specification limitation]	BRG & DIST ELEV DME Antenna	MAG TRACK	Geodetic DIST NM	ft AMSL or FL  Airspace classification	Odd	Even	Remarks Controlling unit Frequency
IIVavi	1	2	3	4	5		6	7
	Z54 (RNAV2) [GNSS, DME/DME,							Daegu ACC
Δ	DME/DME/IRU] SONGTAN VORTAC(SOT)							FREQ: (at or below FL295) 128.70(118.925) MHz 270.50(263.60) MHz
	370540N 1270154E		<u>316</u> 136	11.7	UNL 8 000(2 400)		Į.	FREQ: (above FL 295) 132.80(120.525) MHz
•	MONSI 371247N 1265015E	N/A	216		Class A, D, G			290.60(335.45) MHz
Δ	GOGET		316 136	19.7	8 000(2 300) Class A, D, G	1		Airspace Classification refer to ENR 3.1-1
	372442N 1263036E							
	Z55 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]							Daegu ACC FREQ: (at or below FL 295)
	SANGHAI FIR							128.70(118.925) MHz
	INCHEON FIR							270.50(263.60) MHz
•	AGAVO(FIR BDRY) 371000N 1240000E							FREQ: (above FL 295) 132.80(120.525) MHz
	3/1000N 1240000L	N/A	154 334	35.4	UNL FL 140(1 500)			290.60(335.45) MHz Airspace Classification
•	NONOS 364046N 1242453E				Class A, D, G		1	refer to ENR 3.1-1
1 Crit	ical DME : SEL <agavo nonos<="" td=""><td>&gt; K117&lt;ΔGΔ\/(</td><td></td><td></td><td></td><td></td><td></td><td></td></agavo>	> K117<ΔGΔ\/(						
i. Cili	Z56	, NOZ-AOAV						
	(RNAV2) [GNSS, DME/DME, DME/DME/IRU]							Daegu ACC
	<u> </u>							122.250(125.925) MHz
	PYONGYANG FIR INCHEON FIR							263.350(263.85) MHz
	INCITEON TIX							
•	KANSU(FIR BDRY)					ļ.,		Airspace Classification refer to ENR 3.1-1
Δ	383800N 1322830E PALDU		180 360	40.2	115.11	<b>↓</b>		TOTAL TO LIVE 3.1-1
Δ	375813N 1323625E SABET	N/A	180 360	19.9	UNL FL 200(1 500)			
	373829N 1324019E		<u>180</u> 360	19.9	Class A, G			
•	IGRAS(FIR BDRY) 371846N 1324411E						1	
	INCHEON FIR FUKUOKA FIR	1000		() =				
2. DM	ical DME : KAE <paldu sabet=""> E GAP : KANSU/PALDU, GNSS N/2 represents a pavigation ac</paldu>	required.				ET/IGRA	S>	

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

(N	Route designator avigation specification)	Waypoint IDENT of VOR/DME			Upper limits Lower limits (MOCA)	cru	tion of ising rels	
	me of significant points Coordinates avigation Specification limitation] 1	BRG & DIST ELEV DME Antenna	MAG TRACK	Geodetic DIST NM 4	ft AMSL or FL Airspace classification 5	Odd	_Even_	Remarks Controlling unit Frequency 7
	Z57 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]							Daegu ACC FREQ: (at or below FL 295) 128.70(118.925) MHz 270.50(263.60) MHz
	371033N 1241442E	N/A	<u>154</u> 334	14.5	UNL FL 150(1 500) Class A, D, G	<b>\</b>		FREQ: (above FL 295) 132.80(120.525) MHz 290.60(335.45) MHz
	365835N 1242453E				3, 2, 3			Airspace Classification refer to ENR 3.1-1
1. Criti	cal DME : SEL <rilro da<="" td=""><td>LPO&gt;, KUZ&lt;</td><td>RILRO/DA</td><td>LPO&gt;</td><td></td><td></td><td></td><td></td></rilro>	LPO>, KUZ<	RILRO/DA	LPO>				
	Z63 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]							Daegu ACC FREQ: (at or below FL 295)
-1	PILIT 372631N 1291731E							134.175(123.65) MHz 272.40(233.60) MHz
	LESBU	N/A	<u>060</u> 241	23.8	UNL FL 250(1 500) Class A, G	*	<b>↑</b>	FREQ : (above FL 295) 122.250(125.925) MHz 263.350(263.85) MHz
	374116N 1294104E							Airspace Classification refer to ENR 3.1-1
1. Critic	cal DME : KAE <pilit lesi<="" td=""><td>BU&gt;, KPO<p< td=""><td>ILIT/LESBU</td><td> J&gt;</td><td><u>I</u></td><td></td><td></td><td>1</td></p<></td></pilit>	BU>, KPO <p< td=""><td>ILIT/LESBU</td><td> J&gt;</td><td><u>I</u></td><td></td><td></td><td>1</td></p<>	ILIT/LESBU	 J>	<u>I</u>			1
	Z81 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]							Incheon ACC FREQ: 124.525(132.425) MHz
	KIDOS 335028N 1263402E	N/A	<u>182</u> 001	27.5	UNL FL 140(8 700)		<b>\</b>	255.40(233.50, 348.10) MHz Airspace Classification refer to ENR 3.1-1
	JEJU VORTAC(CJU) 332305N 1263727E				Class A, D, G			
	Z82 (RNAV2) [GNSS, DME/DME/IRU]							Incheon ACC  FREQ: 124.525(132.425) MHz
Δ	JEJU VORTAC(CJU) 332305N 1263727E	N/A	230 050	31.0	UNL FL 140(8 700)		<b></b>	255.40(233.50, 348.10) MHz Airspace Classification refer to ENR 3.1-1
<b>A</b>	PANSI 330014N 1261225E		030		Class A, D, G			TEIEL TO EINK 3.1-1
1. DME	E GAP : CJU/PANSI, GNS	S required.						

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

Change: Information of Z63.

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Effective: 1600UTC 12 JUN 2024



					Upper limits			
	Davida da davida da a	Waypoint			Lower limits		ion of levels	
a	Route designator Navigation specification)	IDENT of VOR/DME			(MOCA)	Cruisirio	leveis	
Ni	ame of significant points	BRG & DIST	MAG	Geodetic	ft AMSL or FL			Remarks
[Novic	Coordinates   co	ELEV DME Antenna	TRACK	DIST	Airspace classification	Odd	Even	Controlling unit Frequency
Inavig	1	2	3	4	5		<u>  Lven</u> 6	7
	Z83							
	(RNAV2) [GNSS, DME/DME,							Daegu ACC
	DME/DME/IRU]							FREQ:
	DALSEONG VORTAC(TGU)							125.375(125.775,
	354835N 1283527E				UNL		↓ ↓	124.575) MHz
			1 <u>92</u> 012	19.8	5 000(4 900)			234.15(317.35,
•	MASTA		012		Class A, D, G			335.50) MHz
	352847N 1283340E				UNL			Airspace Classification
			1 <u>92</u> 012	21.2	5 000(3 800)			refer to ENR 3.1-1
<b>A</b>	SARAM	N1/A	012		Class A, D, G			
	350736N 1283147E	N/A	400		UNL			
			193 013	19.1	5 000(3 000)			
<b>A</b>	ENGOT		013		Class A, D, G			
	344834N 1282952E		400		UNL	1		
			188 008	10.6	5 000(2 300)			
<b>A</b>	ANROD		000		Class A, D, G	↑		
	343758N 1282952E							
	Z84 (RNAV2)							Daegu ACC
	[GNSS, DME/DME, DME/DME/IRU]							FREQ: 125.375(125.775,
Δ	BUSAN VORTAC(PSN)							124.575) MHz
	350721N 1285958E				UNL	↓		234.15(317.35,
		N/A	<u>091</u>	43.8	8 000(3 100)			335.50) MHz
•	KALEK(FIR BDRY)		272		Class A, D, G		1	Airspace Classification
	351232N 1295305E				Oldoo 7 , D, O			refer to ENR 3.1-1
								TOTOL TO LIVE OF T
	INCHEON FIR							
	FUKUOKA FIR							
	Z85							
	(RNAV2)							Incheon ACC
1	[GNSS,							
	DME/DME/IRU]							FREQ :
_	DILLIM							124.525(132.425) MHz
	BILUM 334613N 1270439E							255.40(233.50, 348.10) MHz
	007010N 1270408E		<u>192</u>	11.5	UNL	*		5 70. 10 <i>)</i> Wil IZ
Δ	PAPLU	A1/A	012		FL 170(1 500)			Airspace Classification
	333441N 1270337E	N/A	100		, ,			refer to ENR 3.1-1
			1 <u>92</u> 011	64.5	Class A, D, G			
<b>A</b>	RUGMA(FIR BDRY)		V 1 1			I	1 ↑	
	,							
	323012N 1265753E							
	323012N 1265753E							
	,							

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

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	Direct cruising	ion of p levels	Remarks
[Navigation Specification limitation]	ELEV DME Antenna	TRACK	DIST	Airspace classification	Odd	Even	Controlling unit Frequency
1	2	3	4	5	7	7	10
Z86 (RNAV2) [GNSS, DME/DME/IRU] △ BONSO 302840N 1250851E		181		UNL		<b>\</b>	Incheon ACC  FREQ: 124.525(132.425) MHz 255.40(233.50, 348.10) MHz
▲ ATOTI(FIR BDRY)	N/A	001	28.5	FL 140(1 500) Class A, D, G			* Note
300013N 1251154E							Any aircraft planning to operate below FL 320 after MUGUS must use Z86 between BONSO and ATOTI, then use B576.
INCHEON FIR		l					Airspace Classification
FUKUOKA FIR							refer to ENR 3.1-1
. DME GAP : BONSO/ATOTI,	GNSS require	d.					
(RNAV2) [GNSS, DME/DME, DME/DME/IRU]  △ BUSAN VORTAC(PSN)							Daegu ACC  FREQ: 125.375(125.775, 124.575) MHz 234.15(317.35,
350721N 1285958E  A INVOK(FIR BDRY) 344719N 1291923E	N/A	149 329	25.6	UNL 10 000(3 000) Class A, D, G	<b>\</b>	1	335.50) MHz  Airspace Classification refer to ENR 3.1-1
INCHEON FIR							
FUKUOKA FIR							I

<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 levels	Remarks Controlling unit Frequency 10
	Y590 (RNAV2) [GNSS, DME/DME/IRU]							Incheon ACC
	FUKUOKA FIR INCHEON FIR			II.				FREQ: (at or above FL 335) 133.425(132.425) MHz
H	▲ BEDAR(FIR BDRY)							234.35(234.65) MHz
	315401N 1262910É  △ ELGEP		<u>263</u> 082	28.9	UNL			FREQ: (below FL 335) 125.725(132.825, 128.375) MHz
	314653N 1255617E △ IKEDO	N/A	<u>262</u> 082	14.5	FL 240(1 500) Class A, G			232.95(233.15) MHz Airspace Classification
	314314N 1253948E ▲ SADLI		<u>288</u> 108	34.5		<b>↑</b>		refer to ENR 3.1-1
	314948N 1250000E							

<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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ENR 3.3 - 22
19 OCT 2023

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