ENR 3.2 AREA NAVIGATION(RNAV) 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	Geodetic DIST NM 4	Airspace classification	crui lev Odd	ion of sing rels	Remarks Controlling unit Frequency
L512 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]	2	<u> </u>	4	5	•	3	Daegu ACC FREQ: 122.25 MHz 125.925 MHz 122.75 MHz
△ TENAS 373820N 1313427E		098			 		Common frequency Airspace Classification
△ SABET 373829N 1324019E	N/A	279	52.3	UNL FL 270(1 500)			refer to ENR 3.1-1 *L512 OPS HR between TENAS and ANDOL
▲ ANDOL(FIR BDRY)		<u>093</u> 274	15.7	Class A, G		<u> </u>	- EASTBOUND : H24 - WESTBOUND : H24
373958N 1330000E							** After ANDOL, MEA is FL 290, see AIP JAPAN.
INCHEON FIR							*** Extended DME DOC volume service is 220 NM.
FUKUOKA FIR							
1. Critical DME: KAE <tenas s<br="">2. DME GAP: SABET/ANDOL,</tenas>			ABET>				
Y233							Daegu ACC
(RNAV2) [GNSS, DME/DME, DME/DME/IRU]							FREQ : 122.25 MHz 125.925 MHz 122.75 MHz ²⁾
△ BUSKO 374033N 1301610E					 		2) Common frequency Airspace Classification
△ SELPA		069 250	30.0	UNL			refer to ENR 3.1-1
375515N 1304911E △ ONATA	N/A	<u>070</u> 251	69.1	FL 200(1 500)			
382832N 1320602E		<u>071</u> 251	20.0			<u> </u>	
383800N 1322830É							
INCHEON FIR PYONGYANG FIR							
1. Critical DME : KAE <busko s<br="">2. DME GAP : ONATA/KANSU,</busko>			SELPA>, I	KAE <selpa on<="" td=""><td>ATA>,</td><td>KPO<</td><td>SELPA/ONATA></td></selpa>	ATA>,	KPO<	SELPA/ONATA>

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

Change: Information of reporting requirements for L512.

AIP ENR 3.2 - 2 Republic of Korea 9 FEB 2023

(1)	Route designator Navigation specification)	Waypoint IDENT of VOR/DME			Upper limits Lower limits (MOCA) ft AMSL or FL		ion of levels	
Na	ame of significant points Coordinates ation Specification limitation]		MAG TRACK	Geodetic DIST NM	Airspace classification	Odd	Even	Remarks Controlling unit Frequency
	1	2	3	4	5	(6	7
	Y253 (RNAV2)							Incheon ACC
	[GNSS, DME/DME, DME/DME/IRU] DALSU							FREQ: 123.725 MHz 124.50 MHz
	350731N 1264206E		097	5.4	UNL 8 000(2 400)	\		132.20 MHz ¹⁾ 1) Common frequency Airspace Classification
Δ	GWANGJU VOR(KWA) 350734N 1264844E		277		Class A, D, G			refer to ENR 3.1-1
_			<u>097</u> 278	2.6	UNL 8 000(2 000) Class A, D, G			
	SAMUL 350736N 1265154E		<u>097</u> 278	22.1	UNL 8 000(5 200) Class A, D, G			
•	TEDAN 350744N 1271852E		098	13.5	Gass 7, 2, 3			Incheon ACC
Δ	ANUBA 350746N 1273523E	N/A	278		UNL 8 000(5 400)			FREQ: 128.175 MHz 128.325 MHz 132.20 MHz ²⁾ 2) Common frequency
•	SAPDI		<u>098</u> 278	44.7	Class A, D, G			Airspace Classification refer to ENR 3.1-1
	350737N 1282952E		<u>098</u> 278	1.6	UNL 8 000(2 400)			Daegu ACC
•	SARAM 350736N 1283147E				Class A, D, G UNL			FREQ: 125.375 MHz 125.775 MHz 124.575 MHz
	ANIZHO		<u>098</u> 279	11.9	8 000(4 000) Class A, D, G			122.75 MHz ³⁾ 3) Common frequency
	ANKUS 350730N 1284616E		<u>099</u> 279	11.2	UNL 8 000(3 500)			Airspace Classification refer to ENR 3.1-1
Δ	BUSAN VORTAC(PSN) 350721N 1285958E				Class A, D, G		<u> </u>	

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

Change : Information of reporting requirements for Y253. **OFFICE OF CIVIL AVIATION** AIRAC AIP AMDT 2/23 Effective: 1600UTC 22 MAR 2023

 $^{^{\}star}$ 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]	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
1	2	3	4	5	'	6	/
Y437 (RNAV2) [GNSS,DME/DME, DME/DME/IRU]	AE)						Daegu ACC FREQ: 122.25 MHz 125.925 MHz 122.75 MHz ¹⁾
374203N 1284514E	,	100 280	47.2	UNL 8 000(6 400) Class A. D. G	\		1) Common frequency
374112N 1294441E		100 281	25.0	UNL			Airspace Classification refer to ENR 3.1-1
374033N 1301610E	N/A	101 281	62.2	8 000(1 500) Class A, D, G			
373820N 1313427E		<u>044</u> 224	20.0	UNL			
375440N 1314904E **ANSU(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/NOMEX>, KPO<KAE/NOMEX>, KAE<NOMEX/BUSKO>, KPO<NOMEX/BUSKO>, KAE<BUSKO/TENAS>, KPO<BUSKO/TENAS>, KAE<TENAS/MALSO>, KPO<TENAS/MALSO>

Change: Information of reporting requirements for Y437.

^{2.} DME GAP: MALSO/KANSU GNSS required.

 $^{^{\}star}$ RNAV2 represents a navigation accuracy of $\pm~2\,\text{NM}$ 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 glevels Even	Remarks Controlling unit Frequency 7
•	Y571 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]							Incheon ACC FREQ: 124.525 MHz 132.425 MHz 132.20 MHz ⁴⁾
_	330012N 1262735E		<u>048</u> 229	17.4	UNL 11 000(1 500) Class A, D, G	\		4) Common frequency Airspace Classification refer to ENR 3.1-1
Δ	331320N 1264114E PAPLU		<u>049</u> 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		<u>056</u> 237	34.4	UNL 11 000(2 100) Class A, D, G			124.575 MHz 122.75 MHz ²) 2) Common frequency
Δ	ANROD 343758N 1282952E POVEM		<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							

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

Change: Information of reporting requirements for Y571.

(1)	Route designator	Waypoint IDENT of			Upper limits Lower limits	Direct cruising	ion of	
	lavigation specification) me of significant points Coordinates lavigation Specification limitation]	VOR/DME BRG & DIST ELEV DME Antenna	MAG TRACK	Geodetic DIST NM 4	(MOCA) ft AMSL or FL Airspace classification	Odd	Even	Remarks Controlling unit Frequency
	Y572 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]	2	3	4	3			Daegu ACC FREQ: 128.175 MHz
	BUSAN VORTAC(PSN) 350721N 1285958E		<u>249</u> 069	10.1	UNL 11 000(3 000)		\	124.575 MHz 122.75 MHz 2) Common frequency Airspace Classification
	OLMUD 350225N 1284916E		237	21.1	Class A, D, G UNL 11 000(3 200)			refer to ENR 3.1-1
•	ENGOT 344834N 1282952E		057 		Class A, D, G			
•	POVOR 341520N 1274400E		056	50.4	11 000(2 600) Class A, D, G UNL			
	UPGOS		<u>236</u> 056	26.8	11 000(2 000) Class A, D, G			
	335733N 1271953E		<u>236</u> 056	17.0	UNL 11 000(1 500) Class A, D, G			Incheon ACC FREQ: 124.525 MHz
	BILUM 334613N 1270439E	N/A	<u>236</u> 056	10.5	UNL 11 000(1 500) Class A, D, G			132.425 MHz 132.20 MHz ⁴) 4) Common frequency
	BEPKO 333910N 1265514E		<u>230</u> 050	21.9	UNL 11 000(5 600)			Airspace Classification refer to ENR 3.1-1
	JEJU VORTAC(CJU) 332305N 1263727E		<u>169</u> 349	10.2	UNL 11 000(8 700)		\	* The cruising levels from CJU to RUGMA are even levels due to operational
	OMKIM 331320N 1264114E		169 349	13.8	Class A, D, G UNL 11 000(1 500)			reasons. * The cruising levels from RUGMA to CJU
•	TOSAN 330012N 1264619E		169 349	31.5	UNL 11 000(1 500)			are odd levels due to operational reasons.
•	RUGMA(FIR BDRY) 323012N 1265753E				Class A, D, G	 		
	INCHEON FIR FUKUOKA FIR							

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

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

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(Navigat Name of C [Navigat	ute designator tion specification) f significant points Coordinates tion 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	cruising Odd	ion of levels Even	Remarks Controlling unit Frequency
V570	1	2	3	4	5	(j T	/
	AV2) SS, DME/DME, :/DME/IRU]							Daegu ACC FREQ: 122.25 MHz 134.375 MHz 120.575 MHz
1	320N 1313427E		<u>228</u> 047	68.1			↓ ↓	125.925 MHz 125.925 MHz 122.75 MHz ¹⁾ 1) Common frequency
1	521N 1304044E		<u>229</u> 049	36.2	UNL FL 140(1 500) Class A, D, G			Airspace Classification refer to ENR 3.1-1
3617 ▲ BUL	743N 1301143E GA	N/A	<u>229</u> 048	28.1				
3556 ▲ BED	609N 1294924E		<u>228</u> 048	40.2	UNL FL 140(2 700) Class A, D, G			
3525 △ BUS	513N 1291754E AN VORTAC(PSN)		<u>228</u> 047	23.1	UNL FL 140(3 800) Class A, D, G	 		
3507	721N 1285958E							

^{1.} 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.

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

					1	T			
						Upper limits			
	۱),	Route designator lavigation specification)	Waypoint IDENT of			Lower limits (MOCA) ft AMSL or FL		tion of g levels	
		me of significant points Coordinates lavigation Specification limitation]	VOR/DME BRG & DIST ELEV DME Antenna	MAG TRACK	Geodetic DIST NM	Airspace classification	Odd	Even	Remarks Controlling unit Frequency
ŀ		1	2	3	4	5		6	7
		Y644 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]							Daegu ACC FREQ: 128.70 MHz 132.80 MHz
-		CANCHAL FID							132.00 MHz ¹⁾
ŀ		SANGHAI FIR INCHEON FIR							
ı									1) Common frequency
	•	AGAVO(FIR BDRY) 371010N 1235953E					\downarrow		Eastbound
		3/1010N 1235953E		096	11.8		*		(AGAVO-EGOBA)
	Δ	RILRO		276					FL 410, FL 390, FL 370,
		371033N 1241442E		096					FL 350, FL 330, FL 310,
	Δ	GONAV		276	8.1				FL 290, FL 270, FL 250, FL 230
1	Δ	371048N 1242453E		006		UNL			FL 230
		2020		<u>096</u> 277	20.0	FL 150(1 500)			REF.
	Δ	BODOL 371122N 1244954E				Class A, D, G			ENR 3.1-10 for the
		37 11221 1 1244334L		<u>097</u> 277	31.4				detailed altitude conversion
١	•	REBIT		211					procedures.
		371203N 1252913E		097					A: 01 :5 (:
				278	15.0				Airspace Classification refer to ENR 3.1-1
	\triangle	BELTU							Telef to ENK 3.1-1
		371218N 1254759E	N/A			UNL			
				<u>098</u> 278	32.1	8 000(2 400)			
	\triangle	BOGAN		210		Class A, D, G			
		371241N 1262812E				UNL			
		0/12411 12020122		098	17.6	8 000(3 200)			
J				278	17.0	Class A. D. G			
4	•	MONSI				, ,			
		371247N 1265015E		098		UNL (100)			
				278	7.5	8 000(2 400)			
	\triangle	POLEG				Class A, D, G			
		371249N 1265935E				UNL			
				<u>057</u> 237	24.7	FL 140(3 300)			
	Δ	EGOBA		231		Class A, D, G			
	_	372915N 1272246E				, , -			
Į									

^{1.} 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>

Change: Information of reporting requirements for Y644.

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

				1	I			
1	Route designator (Navigation specification) lame 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 5		ion of plevels	Remarks Controlling unit Frequency
	Y655 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]							Daegu ACC FREQ: 132.80 MHz
	GONAV 371048N 1242453E		188 008	12.2		\		128.70 MHz 122.75 MHz ¹⁾ 1) Common frequency
	DALPO 365835N 1242453E		188	17.8				Airspace Classification refer to ENR 3.1-1
•	NONOS 364046N 1242453E		008	17.0				Incheon ACC
	DANPA		188 008	70.1	UNL FL 140(1 500) Class A, D, G			FREQ: 132.15 MHz 123.55 MHz 132.20 MHz ²⁾ 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 ³⁾ 3) Common frequency Airspace Classification refer to ENR 3.1-1
	PALSA 340131N 1242453E		<u>187</u> 007	11.0				Incheon ACC
	TOLIS 335030N 1242453E		<u>111</u> 291	73.0	UNL 9 000(1 500)			FREQ: 124.525 MHz 132.425 MHz 132.20 MHz ⁴⁾ 4) Common frequency
	LIMDI 333313N 1254953E		<u>111</u> 292	29.0	UNL 9 000(4 100)			Airspace Classification refer to ENR 3.1-1
	REMOS 332605N 1262329E		<u>112</u> 292	12.1	Class A, D, G <u>UNL</u> 9 000(8 700)			
	JEJU VORTAC(CJU) 332305N 1263727E ical DME: SEL <gonav dalpo:="" danpa<="" kuz<nonos="" td=""><td>>, KWA<limd< td=""><td>I/REMOS>, C</td><td>JU<limdi f<="" td=""><td>REMOS></td><td>.PO/NON</td><td>OS>, SE</td><td>EL<nonos danpa="">,</nonos></td></limdi></td></limd<></td></gonav>	>, KWA <limd< td=""><td>I/REMOS>, C</td><td>JU<limdi f<="" td=""><td>REMOS></td><td>.PO/NON</td><td>OS>, SE</td><td>EL<nonos danpa="">,</nonos></td></limdi></td></limd<>	I/REMOS>, C	JU <limdi f<="" td=""><td>REMOS></td><td>.PO/NON</td><td>OS>, SE</td><td>EL<nonos danpa="">,</nonos></td></limdi>	REMOS>	.PO/NON	OS>, SE	EL <nonos danpa="">,</nonos>
2. DM	E GAP : DANPA/PALSA, PALSA Y657	VTOLIS, TOLIS	S/LIMDI, REN	NOS/CJU GI	NSS required.			
	(RNAV2) [GNSS, DME/DME, DME/DME/IRU] GWANGJU VOR(KWA)							Incheon ACC FREQ: 123.725 MHz 124.50 MHz 132.20 MHz ⁵⁾ 5) Common frequency
	350734N 1264844E		<u>072</u> 253	54.7	10 000 8 000(7 100) Class D	↓		Airspace Classification refer to ENR 3.1-1
	353104N 1274907E DALSEONG VORTAC(TGU)	N/A	<u>073</u> 254	41.6	10 000 8 000(4 800) Class D		<u> </u>	Daegu ACC FREQ : 125.375 MHz 125.775 MHz
	354835N 1283527E							124.575 MHz 122.75 MHz ⁶⁾ 6) Common frequency Airspace Classification refer to ENR 3.1-1

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

Change : Information of reporting requirements for Y655 and Y657. **OFFICE OF CIVIL AVIATION** AIRAC AIP AMDT 2/23 Effective: 1600UTC 22 MAR 2023

Γ			Waypoint			Upper limits			
		Route designator	IDENT of VOR/DME			Lower limits (MOCA)		ion of	
	((Navigation specification) lame of significant points	BRG & DIST	MAG	Geodetic	ft AMSL or FL	cruisino	g levels	Remarks
		Coordinates	ELEV DME	TRACK	DIST	Airspace		_	Controlling unit
ŀ	[Navı	gation Specification limitation] 1	Antenna 2	3	NM 4	classification 5	Odd	Even	Frequency 7
		Y659 (RNAV2)							Incheon ACC
		GNSS, DME/DME,							
		DME/DME/IRU]							FREQ : 126.175 MHz 134.375 MHz
ı	\triangle	GUNSAN VORTAC(KUZ)							132.20 MHz ¹⁾
		355437N 1263641E		<u>101</u>	8.5	10 000	↓		1) Common frequency
	\triangle	ELPOS		281	0.0	7 000(1 700)			Airspace Classification
		355410N 1264707E		101	5.5	Class D			refer to ENR 3.1-1
	\triangle	RINBO 355352N 1265349E		281		10 000			
		333332N 1203349E		<u>101</u>	17.8	7 000(3 700)			
	Δ	MELES		282	17.0	Class D			
		355251N 1271542E		400		10 000			
			N/A	<u>102</u> 282	17.2	7 000(5 000)			
Į	\triangle	OPEDA 355149N 1273652E	IN/A			Class D 10 000			
		333 149N 1273032L		<u>102</u>	47.7	7 000(6 600)			Daegu ACC
ı	\triangle	DALSEONG VORTAC(TGU)		282	77.7	Class D			FREQ : 125.375 MHz
1		354835N 1283527E		005		UNL			125.775 MHz
				<u>085</u> 265	24.6	6 000(4 200)			124.575 MHz 122.75 MHz ²⁾
١	•	LAPAL	-			Class A, D, G UNL	-		2) Common frequency
		355413N 1290452E		085	19.7	6 000(3 300)			Airspace Classification
ı	\triangle	POHANG VORTAC(KPO)		265	10.7	Class A, D, G		1	refer to ENR 3.1-1
1		355838N 1292828E`						'	
ŀ									
Ī		Y677							Incheon ACC
		(RNAV2)							
		[GNSS, DME/DME, DME/DME/IRU]							FREQ : 124.525 MHz 132.425 MHz
	Δ	JEJU VORTAC(CJU)							132.20 MHz ³⁾
1	\triangle	332305N 1263727E				UNL			3) Common frequency
				<u>089</u> 269	35.9	9 000(6 300)			Airspace Classification refer to ENR 3.1-1
١	•	TAMNA	N/A			Class A, D, G			
		332815N 1271953E	IN/A	089		UNL			Incheon ACC
				270	49.8	9 000(1 500)			FREQ: 128.175 MHz
	•	SAMDO(FIR BDRY)				Class A, D, G		1	128.325 MHz 132.20 MHz ⁴⁾
		333503N 1281857E							4) Common frequency
-		INCHEON FIR							Airspace Classification
1		FUKUOKA FIR							refer to ENR 3.1-1
ļ	1. Crit	ical DME : PSN <cju tamna="">,</cju>	CJU <cju tan<="" td=""><td>MNA>, PSN</td><td><tamna s<="" td=""><td>AMDO>, CJU<tai< td=""><td>MNA/SAN</td><td>1DO></td><td>1</td></tai<></td></tamna></td></cju>	MNA>, PSN	<tamna s<="" td=""><td>AMDO>, CJU<tai< td=""><td>MNA/SAN</td><td>1DO></td><td>1</td></tai<></td></tamna>	AMDO>, CJU <tai< td=""><td>MNA/SAN</td><td>1DO></td><td>1</td></tai<>	MNA/SAN	1DO>	1

^{1.} Critical DME: PSN<CJU/TAMNA>, CJU<CJU/TAMNA>, PSN<TAMNA/SAMDO>, CJU<TAMNA/SAMDO> * RNAV2 represents a navigation accuracy of ± 2 NM on a 95% containment basis.

Change: Information of reporting requirements for Y659 and Y677.

_							1		
	Νà	Route designator avigation specification) me of significant points Coordinates avigation 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	cruising Odd	ion of glevels	Remarks Controlling unit Frequency
	Δ	Y685 (RNAV2) [GNSS, DME/DME, DME/DME/IRU] ANYANG VORTAC(SEL)	2	3	4	5		3	Daegu ACC FREQ: 132.80 MHz 128.70 MHz 118.925 MHz 120.525 MHz 122.75 MHz 1) Common frequency
	Δ	372449N 1265542E		133 313	10.7	UNL 8 000(3 200) Class A, D, G	\		Only flying westbound from KPO to SEL on Y685 is authorized except ACFT departing from RKTY or RKTI.
•	Δ	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
	\triangle	ENSAL 365554N 1274747E		134 314	9.2	UNL 8 000(4 000)	_		FREQ: 120.575 MHz 119.375 MHz 134.375 MHz 122.75 MHz ²⁾ 2) Common frequency
		BASEM 365037N 1275710E	N/A	134 314	12.5	UNL 8 000(5 000)			Only flying westbound from KPO to SEL on Y685 is authorized except ACFT departing from RKTY or RKTL
	•	BIGOB 364325N 1280952E		134 314	9.5	UNL 8 000(4 900)			Aircraft flying eastbound from SEL to KPO at or above 11 000 ft on
	Δ	YECHEON VOR(CUN) 363755N 1281931E		133 314	30.8	UNL 8 000(3 800)			Y685 shall get PPR 24 hours before from Incheon/Daegu ACC. No PPR is needed at or
	\triangle	ELAPI 362014N 1285051E		134 314	37.3	UNL 8 000(4 700)			below 10 000 ft. Airspace Classification refer to ENR 3.1-1
	\triangle	POHANG VORTAC(KPO) 355838N 1292828E		107 287	17.2	UNL 8 000(2 100)			
	•	BULGA 355609N 1294924E		107 287	44.4	Class A, D, G UNL 8 000(1 500)			
	A	SAPRA(FIR BDRY) 354926N 1304325E				Class A, D, G		<u></u>	
ļ		INCHEON FIR FUKUOKA FIR			1		I	I	
-	DALA	W2 represents a navigation		0 NIN 4	000/				

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

Change: Information of reporting requirements for Y685.

Route designator (Navigation specification) Name of significant points	Waypoint IDENT of VOR/DME			Upper limits Lower limits (MOCA) ft AMSL or FL		tion of g levels	
Coordinates [Navigation Specification limitation]	BRG & DIST ELEV DME Antenna	MAG TRACK	Geodetic DIST NM 4	Airspace classification	Odd	Even	Remarks Controlling unit Frequency
Y697 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]	2	3	4	3			Daegu ACC FREQ: 128.70 MHz 132.80 MHz
SANGHAI FIR INCHEON FIR							122.75 MHz ¹⁾
▲ AGAVO(FIR BDRY)							1) Common frequency
371010N 1235953É ▲ 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,
371411N 1240751E △ NOGON		<u>066</u> 246	16.2				FL 220, FL 200 REF. ENR 3.1-9 for the
372250N 1242505E		<u>097</u>	20.0	UNL FL 150(1 500)			detailed altitude conversion procedures.
△ ANSIM 372323N 1245009E		277 <u>097</u>	19.0	Class A, D, G			Only flying westbound from SEL to AGAVO on Y697 is authorized.
▲ BINIL 372349N 1251359E		277 097	20.0				
▲ NOPIK 372412N 1253905E		277 <u>097</u>	41.0	UNL 8 000(2 100)			
△ GOGET 372442N 1263036E		278		Class A, D, G			
△ ANYANG VORTAC(SEL)		278	20.0	UNL 7 500(3 400)		1	
372449N 1265542E △ EGOBA		<u>087</u> 267	22.0	Class A, D, G	\		Daegu ACC FREQ: 132.80 MHz
372915N 1272246E	N/A	087 267	13.9	UNL 7 500(5 100) Class A, D, G			118.925 MHz 122.75 MHz ²⁾ 2) Common frequency Airspace Classification
A KARBU 373159N 1273952E		<u>087</u> 268	22.9	UNL 7 500(4 500)			refer to ENR 3.1-1 Daegu ACC
▲ TORUS 373625N 1280807E			21.8	Class A, D, G UNL 7 500(7 500)			FREQ: 134.175 MHz 123.65 MHz 122.75 MHz ³⁾
▲ BIKSI 374032N 1283504E		268	21.0	Class A, D, G UNL			3) Common frequency Airspace Classification
△ GANGWON VORTAC(KAE)		<u>088</u> 268	8.2	7 500(7 100) Class A, D, G			refer to ENR 3.1-1
374203N 1284514E ▲ PILIT		<u>130</u> 310	30.0	UNL 8 000(7 100) Class A, D, G			Daegu ACC
372631N 1291731E		<u>130</u> 310	27.5	Giass A, D, G			FREQ: 134.175 MHz 123.65 MHz 122.75 MHz ⁴⁾
NIMUS 371210N 1294656E		130 310	50.8	UNL 9 000(1 500)			4) Common frequency Only flying westbound from LANAT to KAE
△ AGSUS 364521N 1304044E		130	42.9	Class A, D, G			on G597 shall get 24HR PPR from Daegu ACC.
▲ LANAT(FIR BDRY) 362224N 1312542E INCHEON FIR		311				<u> </u>	Daegu ACC. Airspace Classification refer to ENR 3.1-1
FUKUOKA FIR							I CICI LO EINR 3.1-1

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>, 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.

Change: Information of reporting requirements for Y697.

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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		tion of levels	
Coordinates [Navigation Specification limitation]	BRG & DIST ELEV DME Antenna	MAG TRACK	Geodetic DIST NM 4	Airspace classification	Odd	Even	Remarks Controlling unit Frequency 10
Y711 (RNAV2) [GNSS, DME/DME, DME/DME/IRU] MONSI 371247N 1265015E	_		·				Daegu ACC FREQ: 132.80 MHz 128.70 MHz 122.75 MHz ¹⁾ 1) Common frequency
▲ BULTI		<u>190</u> 010	29.4	UNL FL 140(2 900)			Airspace Classification refer to ENR 3.1-1
364322N 1264930E MEKIL		<u>187</u> 007	10.0	Class A, D, G			Incheon ACC FREQ: 132.150 MHz
363322N 1264953E		<u>187</u> 006	10.2	UNL			123.55 MHz 132.20 MHz ²⁾ 2) Common frequency
362311N 1265016E		<u>193</u> 013	14.1	FL 140(3 200) Class A, D, G			Airspace Classification refer to ENR 3.1-1
360905N 1264844E \(\triangle \text{ELPOS} \)		<u>193</u> 013	14.9	UNL FL 140(2 200) Class A. D. G			
355410N 1264707E MANGI		<u>193</u> 013	24.0	UNL FL 140(2 800)			
353011N 1264432E		<u>193</u> 013	22.7	Class A, D, G UNL FL 140(3 800)			Incheon ACC FREQ: 120.725 MHz
△ DALSU 350731N 1264206E		193	52.4	Class A, D, G <u>UNL</u> FL 140(4 000)			128.30 MHz 132.20 MHz ³⁾ 3) Common frequency
▲ DOTOL 341515N 1263637E	N/A	013 <u>193</u>	24.8	Class A, D, G UNL FL 140(2 700)			Airspace Classification refer to ENR 3.1-1
△ KIDOS 335028N 1263402E		207		Class A, D, G			FREQ: 124.525 MHz 132.425 MHz
△ REMOS 332605N 1262329E		027	25.9	FL 140(6 000) Class A, D, G UNL			132.20 MHz ⁴⁾ 4) Common frequency Airspace Classification
A PANSI		<u>207</u> 027	27.4	FL 140(6 300) Class A, D, G			refer to ENR 3.1-1
330014N 1261225E △ DOMKO 322848N 1255859E		207 027	33.4				
△ PONIK 320021N 1254659E		207 027 207	30.1				Incheon ACC FREQ: (At or above FL 3
△ IKEDO 314314N 1253948E		027	18.2	UNL FL 140(1 500)			133.425 MHz 134.15 MHz 132.20 MHz ⁵⁾ (below FL 335)
▲ KANKA 313155N 1253504E		026	12.0	Class A, D, G			125.725 MHz 132.825 MHz 128.375 MHz
△ BONSO 302840N 1250851E		<u>207</u> 026	67.0				132.20 MHz ⁵⁾ 5) Common frequency Airspace Classification
▲ MUGUS(FIR BDRY) 300006N 1245712E		<u>206</u> 026	30.2				refer to ENR 3.1-1
INCHEON FIR FUKUOKA FIR Critical DME: KWA <dotol k<="" td=""><td></td><td></td><td></td><td>I</td><td></td><td></td><td></td></dotol>				I			

Change: Information of reporting requirements for Y711.

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

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

[Navigation Specification	Waypoint IDENT of VOR/DME BRG & DIST ELEV DME	MAG TRACK	Geodetic DIST NM	Upper limits Lower limits (MOCA) ft AMSL or FL Airspace classification		ion of levels	Remarks Controlling unit
limitation]	Antenna 2	3	4	5	Odd	∟ ⊑ven 7	Frequency 10
Y722 (RNAV2) [GNSS, DME/DME, DME/DME/IRU] SONGTAN VORTAC(SOT)	-	J	·	J			Incheon ACC FREQ: 126.175 MHz 134.375 MHz 132.20 MHz ¹⁾
370540N 1270154E		<u>194</u> 014	21.5	UNL FL 140(3 100)			1) Common frequency Airspace Classification refer to ENR 3.1-1
364413N 1265928E		<u>187</u> 007	10.0	UNL FL 140(3 600)			Telef to LIVIX 3.1-1
△ GUNKU 363414N 1265949E		<u>187</u> 007	11.0	Class A, D, G <u>UNL</u> FL 140(3 300)			
A PEBRI 362311N 1270013E		193 013	29.5	Class A, D, G UNL FL 140(2 300)			
△ ATASO 355344N 1265657E		<u>193</u> 013	23.6	Class A, D, G UNL FL 140(3 800)			
MAKSA 353011N 1265422E		193 013	22.7	Class A, D, G 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 ²⁾ 2) Common frequency Airspace Classification
▲ KAMIT 341514N 1264618E	N/A	<u>193</u>	22.4	Class A, D, G UNL FL 140(2 100)			refer to ENR 3.1-1
△ GUKSU 335251N 1264357E	IN/A	013 <u>193</u>	19.6	Class A, D, G UNL FL 140(1 700)			FREQ: 124.525 MHz 132.425 MHz 132.20 MHz ³⁾
△ LOSNI 333315N 1264153E		012 <u>207</u>	10.8	Class A, D, G UNL FL 140(7 600)			3) Common frequency Airspace Classification
△ JEJU VORTAC(CJU) 332305N 1263727E		027 		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		027 207	30.2				Incheon ACC
△ NIRAT 320354N 1260329E		027 <u>207</u>	18.1	UNL			FREQ: (At or above FL 335) 133.425 MHz 134.15 MHz 132.20 MHz ⁴⁾
△ ELGEP 314653N 1255617E		027 207	12.1	FL 140(1 500) Class A, D, G			(below FL 335) 125.725 MHz 132.825 MHz
▲ TESIM 313526N 1255128E		027 207 026	100.9				128.375 MHz 132.20 MHz ⁴⁾ 4) Common frequency Airspace Classification
▲ ATOTI(FIR BDRY) 300013N 1251154E INCHEON FIR SANGHAI FIR 1. Critical DME: KWA <kamit g<="" td=""><td></td><td></td><td></td><td></td><td><u> </u></td><td></td><td>refer to ENR 3.1-1</td></kamit>					<u> </u>		refer to ENR 3.1-1

Change: Information of reporting requirements for Y722.

OFFICE OF CIVIL AVIATION

AIRAC AIP AMDT 2/23 Effective: 1600UTC 22 MAR 2023

^{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.

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

Route designator Navigation specification Red Sec			Waypoint			Upper limits		ion of	
Newigation Specification Imitation Name N	(Navigation specification)	IDENT of VOR/DME BRG &	MAG	Candatia	Lower limits (MOCA)	crui	sina	Domarka
1		Coordinates	ELEV DME		DIST		Odd	Even	Controlling unit
Y744	III	, ,		3					
CENSS, DME/DME, DME/DME/RUJ FREQ: 134.175 MHz 120.575 MHz 120.5		<u> </u>	_						•
DME/DME/IRU		(RNAV2)							Daegu ACC
▲ PILIT 372631N 1291731E 183 003 19.3 000(4900) Class A. D. G. UNL 9000(4900) Class A. D. G. UNL 191957E 183 UNL 9000(5600) Class A. D. G. UNL 1900(2100) Class A. D. G. UNL 1900(2100) Class A. D. G. UNL 1900(4400) Class A. D. G. UN		[GNSS, DME/DME,							
A PILIT 372631N 1291731E 183 003 19.3 9000(4 900) Cass A D, G 19.3 9000(4 900) Cass A D, G 19.3 9000(4 900) Cass A D, G 19.3 9000(5 00) Cass A D, G 19.3 9000(4 00) Property		DME/DME/IRU]							
19.372631N 1291731E									
183 19.3 9.000(4.900) Class A. D. G	A	PILIT							
NOBUT 370715N 1291957E		372631N 1291731E		102		UNL		↓	
A NOBUT 370715N 1291957E					19.3	9 000(4 900)			
A LOSTO 362016N 1292548E		NOBUT		000		Class A, D, G			i) common nequency
LOSTO 362016N 1292548E		370715N 1291957E		183					1. 11 000 ft to FL 240,
A LOSTO 362016N 1292548E					47.2	9 000(5 600)			at or above FL 280
N/A 183 21.7 9 000(2 100) Class A, D, G 213 033 37.2 9 000(4 400) Class A, D, G 213 033 37.2 0 000(4 400) Class A, D, G 213 032 19.0 9 000(4 400) Class A, D, G Cla									will be blocked.
A POHANG VORTAC(KPO) 355838N 1292828E 003 21.7 Class A D, G 200 Class A D, G 213 003 033 37.2 Public Management Office. 213 033 37.2 Public Management Office. 213 000 (4 400) Class A D, G 200 (4 400) Class A D, G 213 0032 Public Management Office. 3. Airspace Classification refer to ENR 3.1-1 A PARU 352442N 1290932E 213 032 19.0 032 Public Management Office. 213 000 (4 400) Class A D, G 200 (4 400) Class A, D, G 200 (2 400)		362016N 1292548E	NI/A	183					
355838N 1292828E 213 033 37.2 9000(4 400) Cass A D, G UNL 01 Story 1290932E 37.2 9000(4 400) Cass A D, G UNL 01 Story 1290932E 37.2 9000(4 400) Cass A D, G UNL 01 Story 1290932E 3. Airspace Classification refer to ENR 3.1-1 A BUSAN VORTAC(PSN) 350721N 1285958E 19.0 9000(4 400) Cass A D, G UNL 025 A			IN/A		21.7	` ′			,
A APARU 352442N 1290932E △ BUSAN VORTAC(PSN) 350721N 1285958E YATE (RNAV2) [GNSS, DME/DME, DME/DME/RU] △ DALSEONG VORTAC(TGU) 354835N 1283527E △ ANKUS 350730N 1284616E △ OMOTU 350033N 1285022E ▲ BESNA(FIR BDRY) 343718N 1290751E Management Office. 213 032 19.0 9000(4 400) Class A, D, G 19.0 Daegu ACC FREQ: 125.375 MHz 125.775 MHz 12			_						,
A APARU 352442N 1290932E BUSAN VORTAC(PSN) 350721N 1285958E Y781 (RNAV2) [GNSS, DME/DME, DME/DME/IRU] DALSEONG VORTAC(TGU) 354835N 1283527E MASTA 352847N 1283340E A ANKUS 350730N 1284616E A OMOTU 350033N 1285022E BESNA(FIR BDRY) 343718N 1290751E DAUSAN VORTAC(PSN) 3032 19.0 Class A D, G UNL 7 000(4 400) Class A D, G UNL 7 000(4 900) Class A D, G UNL 7 000(3 500) Class A D, G UNL 7 000(2 800) Class A D, G UNL 7		355838N 1292828E		213	07.0				
352442N 1290932E BUSAN VORTAC(PSN) 350721N 1285958E Y781 (RNAV2) [GNSS, DME/DME, DME/DME/IRU] DALSEONG VORTAC(TGU) 354835N 1283527E MASTA 352847N 1283340E ANKUS 350730N 1284616E ANKUS 350033N 1285022E BESNA(FIR BDRY) 343718N 1290751E Daegu ACC FREQ : 125.375 MHz 122.75 MHz 122.75 MHz 122.75 MHz 122.75 MHz 2) Common frequency Airspace Classification refer to ENR 3.1-1 Daegu ACC FREQ : 125.375 MHz 125.775 MHz 122.75 MHz 2) Common frequency Airspace Classification refer to ENR 3.1-1 Airspace Classification refer to ENR 3.1-1 Daegu ACC FREQ : 125.375 MHz 122.75 MHz 122.75 MHz 2) Common frequency Airspace Classification refer to ENR 3.1-1 Airspace Classification refer to ENR 3.1-1 Airspace Classification refer to ENR 3.1-1 N/A DINL 7 000(4 900) Class A D, G 342 7.7 7 000(3 500) Class A D, G 342 7.7 7 000(2 800) Class A D, G 343718N 1290751E INCHEON FIR FUKUOKA FIR		ADADII			37.2	, ,			Management Office.
△ BUSAN VORTAC(PSN) 350721N 1285958E 19.0 9000(4 400) Class A, D, G refer to ENR 3.1-1 Y781 (RNAV2) (GNSS, DME/DME, DME/DME/IRU] Image: DM	1		-				1		3 Airenaco Classification
A BUSAN VORTAC(PSN) 350721N 1285958E 032 Class A. D. G. ↑ ↑ Y781 (RNAV2) [GNSS, DME/DME, DME/DME/RU] DME/DME/IRU] Daegu ACC A DALSEONG VORTAC(TGU) 354835N 1283527E 192 012 19.8 7000(4 900) Class A. D. G. 0 Class A. D. G. Class A. D. G. 0 Class A. D. G. 0 Class A. D. G. 0 Class A. D. G. D. Class A. D. G.		332442IN 1290932L			10.0				•
Y781	\wedge	BUSAN VORTAC(PSN)		032	19.0	` ′			ICICI TO LINIT 5.1-1
Y781 (RNAV2) [GNSS, DME/DME, DME/DME/IRU] Daegu ACC △ DALSEONG VORTAC(TGU) 354835N 1283527E I92 012 UNL 7 000(4 900) Class A, D, G 122.75 MHz² 122.75 MHz² 122.75 MHz² 122.75 MHz² 2) Common frequency ▲ MASTA 352847N 1283340E I62 342 23.6 UNL 7 000(4 900) Class A, D, G Airspace Classification refer to ENR 3.1-1 △ OMOTU 350033N 1285022E I56 336 27.3 UNL 7 000(2 800) Class A, D, G ▲ BESNA(FIR BDRY) 343718N 1290751E INCHEON FIR FUKUOKA FIR	1					Class A, D, G			
CRNAV2 GNSS, DME/DME, DME/DME, DME/DME, DME/DME/IRU									
Common Fire									Doogu ACC
DME/DME/IRU] DALSEONG VORTAC(TGU) TREQ: 125.375 MHz 125.775 MHz 125.775 MHz 125.775 MHz 125.775 MHz 124.575 MHz 122.75 MHz <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Daegu ACC</td>									Daegu ACC
△ DALSEONG VORTAC(TGU) 354835N 1283527E 19.8 UNL 7 000(4 900) (Class A, D, G) 122.75 MHz² 124.575 MHz 122.75 MHz² 122.									FREQ · 125 375 MHz
△ DALSEONG VORTAC(TGU) 354835N 1283527E 19.8 UNL / 7000(4 900) 122.75 MHz² 122.75		,							
▲ MASTA 352847N 1283340E 19.8 7 000(4 900) Class A, D, G A) G △ ANKUS 350730N 1284616E 162 342 23.6 100(4 000) 7 000(4 000) Class A, D, G Airspace Classification refer to ENR 3.1-1 △ OMOTU 350033N 1285022E 156 336 27.3 UNL 7 000(2 800) Class A, D, G ▲ BESNA(FIR BDRY) 343718N 1290751E 27.3 UNL 7 000(2 800) Class A, D, G INCHEON FIR FUKUOKA FIR INCHEON FIR	\triangle	DALSEONG VORTAC(TGU)							
▲ MASTA 352847N 1283340E 012 19.8 7 000(4 900) Class A, D, G Airspace Classification refer to ENR 3.1-1 △ ANKUS 350730N 1284616E N/A 162/342 7.7 17000(3 500) Class A, D, G VINL 7 000(3 500) Class A, D, G UNL 7 000(2 800) Class A, D, G ▲ BESNA(FIR BDRY) 343718N 1290751E 156/336 27.3 UNL 7 000(2 800) Class A, D, G INCHEON FIR FUKUOKA FIR INCHEON FIR FUKUOKA FIR]	354835N 1283527E				UNL	\downarrow		122.75 MHz ²⁾
▲ MASTA 352847N 1283340E Image: Class A, D, G and the property of the property o					19.8	7 000(4 900)			2) Common frequency
352847N 1283340E ANKUS 350730N 1284616E AOMOTU 350033N 1285022E BESNA(FIR BDRY) 343718N 1290751E N/A AIrspace Classification refer to ENR 3.1-1		MASTA		012		Class A, D, G			
ANKUS 350730N 1284616E A OMOTU 350033N 1285022E BESNA(FIR BDRY) 343718N 1290751E N/A 162/342 23.6 7000(4 000) Class A, D, G UNL 7000(3 500) Class A, D, G UNL 7000(2 800) Class A, D, G UNL 7000(2 800) Class A, D, G UNL (Class A, D, G UNL Tourist All Space Classification refer to ENR 3.1-1	1	352847N 1283340E					1		Airenaca Classification
ANKUS 350730N 1284616E A OMOTU 350033N 1285022E ■ BESNA(FIR BDRY) 343718N 1290751E N/A Class A, D, G UNL T 000(3 500) Class A, D, G UNL T 000(2 800) UNL UNL T 000(2 800) UNL UNL					23.6				•
350730N 1284616E A OMOTU 350033N 1285022E BESNA(FIR BDRY) 343718N 1290751E INCHEON FIR FUKUOKA FIR	\triangle	ANKUS		342		` ′			TOTAL TO LINK J. I-I
△ OMOTU 162/342 7.7 7 000(3 500) 350033N 1285022E 156/336 27.3 UNL 7 000(2 800) △ BESNA(FIR BDRY) 27.3 Class A, D, G 343718N 1290751E INCHEON FIR FUKUOKA FIR			N/A						
△ OMOTU 342 Class A, D, G 350033N 1285022E 156/336 27.3 UNL/7 000(2 800) A BESNA(FIR BDRY) Class A, D, G 343718N 1290751E INCHEON FIR FUKUOKA FIR FUKUOKA FIR					7.7				
350033N 1285022E 156/336 27.3 □ UNL 7 000(2 800) Class A, D, G INCHEON FIR FUKUOKA FIR	\triangle	OMOTU		342		, ,			
▲ BESNA(FIR BDRY) 336 27.3 7 000(2 800) 343718N 1290751E Class A, D, G INCHEON FIR FUKUOKA FIR							†		
▲ BESNA(FIR BDRY) 343718N 1290751E INCHEON FIR FUKUOKA FIR					27.3				
343718N 1290751É INCHEON FIR FUKUOKA FIR		BESNA(FIR BDRY)		336		, ,			
INCHEON FIR FUKUOKA FIR		,				5.005 . , 5, 5			
FUKUOKA FIR									
·			'		•	-			
1 Critical DMF · PSN <omotu besna=""> CJU<omotu besna=""></omotu></omotu>									

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

Change: Information of reporting requirements for Y744 and Y781.

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

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	Na	Route designator lavigation specification) ime 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	Directi cruising Odd	ion of levels	Remarks Controlling unit Frequency
		1	2	3	4	5	6	6	7
		Y782 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]							Daegu ACC FREQ: 128.70 MHz
ı	\triangle	ANYANG VORTAC(SEL)							120.525 MHz
1		372449N 1265542E				UNL	J		122.75 MHz ¹⁾
I	\triangle	POLEG		174 354	12.4	4 500(3 000) Class A, D, G	·		Common frequency Airspace Classification
	Δ	371249N 1265935E SONGTAN VORTAC(SOT)		<u>174</u> 354	7.4	UNL 4 500(2 000) Class A, D, G			refer to ENR 3.1-1
		370540N 1270154E		144 324	21.6	UNL			
•	•	OSPOT 365018N 1272055E		144 324	10.4	8 000(3 300) Class A, D, G			Daegu ACC
I	•	VASLI 364252N 1273003E		144	24.0				FREQ: 125.375 MHz
I	•	MAKDU 362712N 1274909E	N/A	324	21.9	UNL 8 000(4 200)			125.775 MHz 124.575 MHz
ı	•	BITUX		144 324	14.6	Class A, D, G			122.75 MHz ²⁾ 2) Common frequency
	Δ	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) Class A, D, G			-
	Δ	353012N 1284626E		<u>162</u> 342	25.4	UNL 5 000(3 600) Class A. D. G			
		BUSAN VORTAC(PSN) 350721N 1285958E		<u>162</u> 342	26.6	UNL 4 000(3 000)			
	•	APELA(FIR BDRY) 344323N 1291400E				Class A, D, G			
-		INCLIEON FIR							
-		INCHEON FIR FUKUOKA FIR							
ŀ					0=1 = 5:	EQUACT 55=		'00	
	1. Cr	itical DME : SEL <sel pol<="" td=""><td>ĿG>, SOT<se< td=""><td>L/POLEG>,</td><td>SEL<pol< td=""><td>EG/SOT>, SOT</td><td><puleg< td=""><td>/SUT></td><td></td></puleg<></td></pol<></td></se<></td></sel>	ĿG>, SOT <se< td=""><td>L/POLEG>,</td><td>SEL<pol< td=""><td>EG/SOT>, SOT</td><td><puleg< td=""><td>/SUT></td><td></td></puleg<></td></pol<></td></se<>	L/POLEG>,	SEL <pol< td=""><td>EG/SOT>, SOT</td><td><puleg< td=""><td>/SUT></td><td></td></puleg<></td></pol<>	EG/SOT>, SOT	<puleg< td=""><td>/SUT></td><td></td></puleg<>	/SUT>	

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

Change: Information of reporting requirements for Y782.

	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	ion of g levels Even	Remarks Controlling unit Frequency
L		1	2	3	4	5	(3	7
	\triangle	Z50 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]							Daegu ACC FREQ: 128.70 MHz 134.175 MHz 122.75 MHz ¹⁾ 1) Common frequency
	Δ	372915N 1272246E SONGTAN VORTAC(SOT)	N/A	<u>224</u> 044	28.8	UNL FL 140(3 300) Class A, D, G		↓	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	1 ↑		
1		364322N 1264930E				, , -			1
	•	Z51 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]							Incheon ACC FREQ: 132.15 MHz
	\triangle	364406N 1263658E MOXID	N/A	173 353	21.6	UNL FL 150(3 900) Class A, D, G UNL		\	123.55 MHz 132.20 MHz ²⁾ 2) Common frequency
	Δ	362311N 1264359E BEDES 360905N 1264844E		<u>173</u> 353	14.6	FL 150(3 600) Class A, D, G			Airspace Classification refer to ENR 3.1-1
H									
		Z52 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]							Incheon ACC FREQ: 126.175 MHz
	▲	OLMEN 364413N 1265928E POSAN		<u>051</u> 231	16.4	UNL 8 000(3 400) Class A, D, G	\		134.375 MHz 132.20 MHz ³⁾ 3) Common frequency
	Δ	365615N 1271316E KAKSO	N/A	051 232	15.7	UNL 8 000(3 000) Class A, D, G		↑	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 TEBEX	N/A	<u>002</u> 182	17.0	UNL FL 160(4 000) Class A, D, G		Ţ	120.575 MHz 125.775 MHz 119.375 MHz 122.75 MHz ⁴⁾ 4) Common frequency
	\triangle	363341N 1275929E BASEM 365037N 1275710E	IV/A	<u>002</u> 182	17.0	UNL FL 160(4 600) Class A, D, G	<u> </u>		Airspace Classification refer to ENR 3.1-1
		COOOTIN IZIOTIUE							

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

Change: Information of reporting requirements for Z50, Z51, Z52 and Z53.

MONSI 371247N 1265015E									
Z54	1	(Navigation specification) Name of significant points Coordinates gation Specification limitation]	IDENT of VOR/DME BRG & DIST ELEV DME Antenna	TRACK	DIST NM	Lower limits (MOCA) ft AMSL or FL Airspace classification	cruising	levels	Controlling unit Frequency
RRNAY2 GNSS, DME/DME, DME/DME/RUJ		· · · · · · · · · · · · · · · · · · ·	2	3	4	5		o 	1
370540N 1270154E A MONSI 371247N 1265015E A GOGET 372442N 1263036E 255 (RNAV2) (GNSS, DME/DME, DME/DME/RU) A AGAVO(FIR BDRY) 371010N 1235953E N/A 154 334 35.5 N/A 154 355 N/A 154 NONOS NONOS NONOS NONE/DME/NOME/NU PYONGYANG FIR NONOS NOME/DME/NU PYONGYANG FIR NONOS NOME/DME/NU PYONGYANG FIR NOME/DME/NU PYONGYANG FIR NOME/DME/NU PYONGYANG FIR NONOS NOME/DME/NU PYONGYANG FIR NOME/NU PYONGYANG FIR NONOS NOME/NU PYONGYANG FIR NOME/NU A KANSU(FIR BDRY) 363800N 1322830E A KANSU(FIR BDRY) 373829N 1324019E A IGRAS(FIR BDRY) 371846N 1324411E NOCHEON FIR FUKUOKA FIR		(RNAV2) [GNSS, DME/DME, DME/DME/IRU]							FREQ: 128.70 MHz 132.80 MHz 120.525 MHz
A GAVO(FIR BDRY) 371010N 1235953E N/A 154 334 35.5 FL 140(1500) Class A D, G 1 1 1 1 1 1 1 1 1		370540N 1270154E	N/A		11.7	8 000(2 400)		\	Common frequency Airspace Classification
Daegu ACC FREQ : 128.70 MHz 132.80 MHz 132.75 MHz 132.80 MHz 132.75 MHz 132.80 MHz 132.75 MHz 132.75 MHz 132.80 MHz 132.75 MH			14/7		19.7	8 000(2 300)	_ ↑		
CRNAV2 GRSS, DME/DME, DME/DME/RU]		372442N 1263036E				<u> </u>			
A AGAVO(FIR BDRY) 371010N 1235953E N/A 154 334 35.5 FL 140(1 500) Airspace Classification refer to ENR 3.1-1 ▲ NONOS 364046N 1242453E 1. Critical DME : SEL~AGAVO/NONOS>, KUZ~AGAVO/NONOS> Z56 (RNAV2) (GNSS, DME/DME, DME/DME/IRU] Daegu ACC FREQ : 122.25 MHz 125.925 MHz 122.75 MHz³) 3 Common frequency 383800N 1322830E Airspace Classification refer to ENR 3.1-1 ▲ KANSU(FIR BDRY) 383800N 1322830E N/A 180 360 19.9 FL 200(1 500) Class A, G Airspace Classification refer to ENR 3.1-1 ▲ SABET 373829N 1324019E 180 360 19.9 FL 200(1 500) Class A, G Cla		(RNAV2) [GNSS, DME/DME,							FREQ: 128.70 MHz
A AGAVO(FIR BDRY) 371010N 1235953E									
371010N 1235953E N/A		INCHEON FIR			1				
371010N 1235953E N/A	•	AGAVO(FIR BDRY)							
364046N 1242453E 1. Critical DME : SEL <agavo nonos="">, KUZ<agavo nonos=""> Z56 (RNAV2) [GNSS, DME/DME, DME/DME/IRU] PYONGYANG FIR INCHEON FIR ★ KANSU(FIR BDRY) 383800N 1322830E A PALDU 375813N 1323625E A SABET 373829N 1324019E ★ IGRAS(FIR BDRY) 371846N 1324411E INCHEON FIR INCHEON FIR INCHEON FIR IRCHEON FIR INCHEON FIR INCHEON FIR INCHEON FIR FUKUOKA FIR</agavo></agavo>			N/A		35.5	FL 140(1 500)		^	· •
Z56 (RNAV2) GNSS, DME/DME, DME/DME, DME/DME/IRU]	•							l l	
Z56 (RNAV2) GNSS, DME/DME, DME/DME, DME/DME/IRU]	1. Cri	tical DME : SEL <agavo nonos<="" td=""><td>>, KUZ<agav< td=""><td>O/NONOS></td><td></td><td></td><td></td><td></td><td></td></agav<></td></agavo>	>, KUZ <agav< td=""><td>O/NONOS></td><td></td><td></td><td></td><td></td><td></td></agav<>	O/NONOS>					
PYONGYANG FIR INCHEON FIR KANSU(FIR BDRY) 383800N 1322830E △ PALDU 375813N 1323625E △ SABET 373829N 1324019E ▲ IGRAS(FIR BDRY) 371846N 1324411E INCHEON FIR FUKUOKA FIR		(RNAV2)							Daegu ACC
PYONGYANG FIR INCHEON FIR		DME/DME/IRU]							i i
383800N 1322830É △ PALDU 375813N 1323625E △ SABET 373829N 1324019E ▲ IGRAS(FIR BDRY) 371846N 1324411E INCHEON FIR FUKUOKA FIR								I	122.75 MHz ³⁾
383800N 1322830É △ PALDU 375813N 1323625E △ SABET 373829N 1324019E ▲ IGRAS(FIR BDRY) 371846N 1324411E INCHEON FIR FUKUOKA FIR		KANSII(FIR RDRV)							
375813N 1323625E A SABET 373829N 1324019E A IGRAS(FIR BDRY) 371846N 1324411E INCHEON FIR FUKUOKA FIR		383800N 1322830É			40.2		↓ ·		Airspace Classification refer to ENR 3.1-1
373829N 1324019E		375813N 1323625E	N/A		19.9				
INCHEON FIR FUKUOKA FIR		373829N 1324019E			19.9	Class A, G			
FUKUOKA FIR	•							Î	
				•	•		•		
			1/20		o	10010 / 70 7 :-			<u> </u>

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

2. DME GAP: KANSU/PALDU, GNSS required.

Change : Information of reporting requirements for Z54, Z55 and Z56. **OFFICE OF CIVIL AVIATION** AIRAC AIP AMDT 2/23

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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	crui	tion of sing vels	Remarks
[Navigation Specification limitation]	ELEV DME Antenna	TRACK 3	DIST NM 4	Airspace classification 5		Even 6	Controlling unit Frequency
Z57 (RNAV2) [GNSS, DME/DME, DME/DME/IRU] A RILRO 371033N 1241442E		3	7	UNL		<u> </u>	Daegu ACC FREQ: 128.70 MHz 132.80 MHz 122.75 MHz ¹⁾ 1) Common frequency
△ DALPO 365835N 1242453E	N/A	154 334	14.5	FL 150(1 500) Class A, D, G			Airspace Classification refer to ENR 3.1-1
. Critical DME : SEL <rilro <="" td=""><td>DALPO>, KUZ<</td><td>RILRO/DA</td><td>LPO></td><td></td><td></td><td></td><td><u> </u></td></rilro>	DALPO>, KUZ<	RILRO/DA	LPO>				<u> </u>
Z63 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]							Daegu ACC FREQ: 134.175 MHz 123.65 MHz
372631N 1291731E	N/A	064 245	26.1	UNL FL 250(1 500) Class A, G	\	^	122.75 MHz ²⁾ 2) Common frequency Airspace Classification refer to ENR 3.1-1
374112N 1294441E							
. Critical DME : KAE <pilit no<="" td=""><td>OMEX>, KPO<f< td=""><td>PILIT/NOM</td><td>EX></td><td></td><td></td><td></td><td>I</td></f<></td></pilit>	OMEX>, KPO <f< td=""><td>PILIT/NOM</td><td>EX></td><td></td><td></td><td></td><td>I</td></f<>	PILIT/NOM	EX>				I
(RNAV2) [GNSS, DME/DME, DME/DME/IRU]							Incheon ACC FREQ: 124.525 MHz 132.425 MHz 132.20 MHz ³⁾
 △ KIDOS 335028N 1263402E △ JEJU VORTAC(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 1263727E							
Z82 (RNAV2) [GNSS, DME/DME/IRU]							Incheon ACC FREQ: 124.525 MHz 132.425 MHz 132.20 MHz ⁴⁾
△ JEJU VORTAC(CJU) 332305N 1263727E ▲ PANSI	N/A	230 050	31.0	UNL FL 140(8 700) Class A, D, G		\	4) Common frequency Airspace Classification refer to ENR 3.1-1
330014N 1261225E							

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

Change: Information of reporting requirements for Z63, Z81 and Z82.

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Effective: 1600UTC 22 MAR 2023

		Waypoint			Upper limits Lower limits		tion of	
	Route designator	IDENT of			(MOCA)	cruising	g levels	
l (ľ	Navigation specification) ame of significant points	VOR/DME BRG & DIST	MAG	Geodetic	ft AMSL or FL			Remarks
	Coordinates	ELEV DME	TRACK	DIST	Airspace		_	Controlling unit
[Navig	ation Specification limitation]	Antenna 2	3	NM 4	classification 5	Odd	Even	Frequency 7
	Z83						Ĭ	'
	(RNAV2)							
	[GNSS, DME/DME,							
	DME/DME/IRU] DALSEONG VORTAC(TGU)							
1 ~	354835N 1283527E				UNL		 	Daegu ACC
			<u>192</u>	19.8	5 000(4 900)			Daega A00
	MASTA		012		Class A, D, G			FREQ: 125.375 MHz
1	352847N 1283340E				UNL	1		125.775 MHz
			192	21.2	5 000(3 800)			124.575 MHz
	SARAM		012		Class A, D, G			122.75 MHz ¹⁾
	350736N 1283147E	N/A	160		UNL	1		1) Common frequency
			193 013	19.1	5 000(3 000)			Aimman Olasaisiasi
	ENGOT		013		Class A, D, G			Airspace Classification refer to ENR 3.1-1
	344834N 1282952E		400		UNL]		TOIGH TO LIVEN 3.1=1
			188 008	10.6	5 000(2 300)			
	ANROD				Class A, D, G	<u> </u>		
	343758N 1282952E							
1 Criti	ical DME - DSN/TCU/MAST	 A\= TCU\=TCU	LAACTAS	DON/M	\CTA/CADAM> 7			<u> </u>
1. Criti	ical DME : PSN <tgu mast<br="">PSN<saram en<="" td=""><td></td><td></td><td></td><td>ASTA/SARAM>, I</td><td>GU<ma< td=""><td>51A/5AR</td><td>AIVI>,</td></ma<></td></saram></tgu>				ASTA/SARAM>, I	GU <ma< td=""><td>51A/5AR</td><td>AIVI>,</td></ma<>	51A/5AR	AIVI>,
2 DM	E GAP : ENGOT/ANROD, G			NGO 12				
	Z84							
	(RNAV2)							Daegu ACC
	[GNSS, DME/DME,							
	DME/DME/IRU]							FREQ : 125.375 MHz
	BUSAN VORTAC(BSN)							125.775 MHz 124.575 MHz
	BUSAN VORTAC(PSN) 350721N 1285958E				UNL	l l		122.75 MHz ²⁾
		N/A	<u>091</u>	43.8	8 000(3 100)	ľ		2) Common frequency
	KALEK(FIR BDRY)	IN/A	272	75.0	, ,			Aimamana Olanaifiantian
	351232N 1295305E				Class A, D, G			Airspace Classification refer to ENR 3.1-1
	INCHEON FIR							
	FUKUOKA FIR							
	Z85							
	(RNAV2)							Incheon ACC
	[GNSS,							
	DME/DME/IRU]							FREQ: 124.525 MHz
	BILUM							128.175 MHz
	334613N 1270439E					1		132.20 MHz ³⁾
	33.010H 1210-00L		<u>192</u>	11.5	UNL	*		3) Common frequency
Δ	PAPLU	N/A	012		FL 170(1 500)			
	333441N 1270337E	IN/A	192	_,_				Airspace Classification
	DLICMA/EID DDDV\		011	64.5	Class A, D, G			refer to ENR 3.1-1
_	RUGMA(FIR BDRY) 323012N 1265753E						1	
	OLOUIZIN IZUUI JOE							
	INCHEON FIR							
	FUKUOKA FIR							
	FUNUONA FIN							

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

Change: Information of reporting requirements for Z83.

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ENR 3.2 - 20

9 FEB 2023

				1			
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	Directi cruising Odd		Remarks Controlling unit Frequency
1	2	3	4	5	7	7	10
Z86 (RNAV2) [GNSS, DME/DME/IRU] △ BONSO 302840N 1250851E		181		UNL		\	Incheon ACC FREQ: 124.525 MHz 132.20 MHz ¹⁾ 1) Common frequency
▲ ATOTI(FIR BDRY) 300013N 1251154E	N/A	001	28.5	FL 140(1 500) Class A, D, G			Airspace Classification refer to ENR 3.1-1
INCHEON FIR FUKUOKA FIR							-
1. DME GAP : BONSO/ATOTI Z91	, GNSS require	d.					
(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	\	<u> </u>	122.75 MHz ²⁾ 2) Common frequency Airspace Classification refer to ENR 3.1-1
INCHEON FIR							
FUKUOKA FIR							

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

Change: Information of reporting requirements for Z91.

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 (MOCA) ft AMSL or FL Airspace classification 5	Direct cruising Odd	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 △ ELGEP		<u>263</u> 082	28.9	- UNL		132.20 MHz ¹⁾ (below FL 335) 125.725 MHz 132.825 MHz
314653N 1255617E △ IKEDO	N/A	<u>262</u> 082	14.5	FL 240(1 500) Class A, G		128.375 MHz 132.20 MHz ¹⁾
314314N 1253948E ▲ SADLI 314948N 1250000E		288 108	34.5		↑	1) Common frequency Airspace Classification refer to ENR 3.1-1

^{1.} DME GAP : BEDAR/SADLI, GNSS required.

Change: Information of DME GAP.

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

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

INTENTIONALLY

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