ENR 3.2 AREA NAVIGATION(RNAV) ROUTES

					Upper limits			
					Lower limits		ion of	
	Route designator	Waypoint			or	lev	sing ⁄els	
(Nav	vigation specification) ne of significant points	IDENT of VOR/DME			(MOCA) ft AMSL or FL			
	Coordinates	BRG & DIST	MAG	Geodetic				Remarks
[Na	vigation Specification limitation	ELEV DME Antenna	TRACK	DIST	Airspace classification	Odd	Even	Controlling unit Frequency
	1 1	2	3	4	5		6	7
	512							Daegu ACC
l (c	RNAV2) GNSS, DME/DME,							FREQ: 122.25 MHz
	ME/DME/IRU]							125.925 MHz 122.75 MHz ¹⁾
A T	ENAS							1) Common frequency
	73820N 1313427E		200			1		Airspace_Classification
			<u>098</u> 279	52.3	UNL	↓		refer to ENR 3.1-1
1	ABET	N/A	219		FL 270(1 500)			* L512 OPS HR between TENAS and ANDOL
31	73829N 1324019E		093	15.7	Class A, G			- EASTBOUND : H24
	NDOL(FIR BDRY)		274				Î	- WESTBOUND : H24
37	73958N 1330000E							** After ANDOL, MEA is FL 290, see AIP JAPAN
IN	ICHEON FIR							*** Extended DME DOC
Fl	UKUOKA FIR							volume service is 220 NM
1. Critic 2. DME	cal DME: KAE <tenas s<br="">: GAP: SABET/ANDOL,</tenas>	SABET>, KPO< GNSS or DME	TENAS/S. E/DME/IRU	ABET> J required				
Y	233							
(R	RNAV2)							Daegu ACC
	SNSS, DME/DME,							FREQ: 122.25 MHz
DI	ME/DME/IRU]							125.925 MHz
, ,	HOKO							122.75 MHz ²⁾ 2) Common frequency
	USKO							, ,
31	74033N 1301610E		069	30.0		*		Airspace Classification refer to ENR 3.1-1
│ △ SI	ELPA		250	00.0				TOTAL TO LIVIN 3.1-1
37	75515N 1304911E		070		UNL			
		N/A	<u>070</u> 251	69.1	FL 200(1 500)			
	NATA		201		Class A, D, G			
38	82832N 1320602E		<u>071</u>	20.0				
▲ K	ANSU(FIR BDRY)		251	20.0			↑	
	83800N 1322830E							
18.1	ICHEON FID							
	ICHEON FIR YONGYANG FIR							
<u> </u>	TOTOTANO TIN							

^{1.} Critical DME: KAE<BUSKO/SELPA>, KPO<BUSKO/SELPA>, KAE<SELPA/ONATA>, KPO<SELPA/ONATA> 2. DME GAP: ONATA/KANSU, GNSS or DME/DME/IRU required.

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

(I Na	Route designator Navigation specification) ame of significant points Coordinates	Waypoint IDENT of VOR/DME BRG & DIST ELEV DME	MAG TRACK	Geodetic DIST	Upper limits Lower limits (MOCA) ft AMSL or FL Airspace	Direct cruising	ion of levels	Remarks Controlling unit
[Navig	ation Specification limitation]	Antenna	0	NM	classification	Odd	Even	Frequency
	1 V252	2	3	4	5	(5 	7
	Y253 (RNAV2) [GNSS, DME/DME, DME/DME/IRU] DALSU							Incheon ACC FREQ: 123.725 MHz 124.50 MHz 132.20 MHz ¹⁾
	350731N 1264206E GWANGJU VOR(KWA)		<u>097</u> 277	5.4	UNL 8 000(2 400) Class A, D, G	\		1) Common frequency Airspace Classification refer to ENR 3.1-1
	350734N 1264844E SAMUL		<u>097</u> 278	2.6	UNL 8 000(2 000) Class A, D, G			
Δ	350736N 1265154E TEDAN		<u>097</u> 278	22.1	UNL 8 000(5 200) Class A, D, G			
Δ	350744N 1271852E ANUBA		<u>098</u> 278	13.5	UNL			Incheon ACC FREQ: 128.175 MHz 128.325 MHz
Δ	350746N 1273523E SAPDI	N/A	<u>098</u> 278	44.7	8 000(5 400) Class A, D, G			132.20 MHz ²⁾ 2) Common frequency Airspace Classification refer to ENR 3.1-1
Δ	350737N 1282952E SARAM		<u>098</u> 278	1.6	UNL 8 000(2 400) Class A, D, G			Daegu ACC FREQ: 125.375 MHz 125.775 MHz
Δ	350736N 1283147E ANKUS		<u>098</u> 279	11.9	UNL 8 000(4 000) Class A, D, G			124.575 MHz 122.75 MHz ³⁾ 3) Common frequency Airspace Classification
•	350730N 1284616E BUSAN VORTAC(PSN)		<u>099</u> 279	11.2	UNL 8 000(3 500) Class A, D, G		1	refer to ENR 3.1-1
	BUSAN VORTAC(PSN) 350721N 1285958E			Mr. DON (0.111.00		

^{1.} Critical DME: PSN<SAPDI/SARAM>, CJU<SAPDI/SARAM>, PSN<SARAM/ANKUS>, CJU<SARAM/ANKUS>, PSN<ANKUS/PSN>, CJU<ANKUS/PSN>

 $^{^{\}star}$ 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	cruising Odd	ion of plevels	Remarks Controlling unit Frequency
1	2	3	4	5	(3	/
Y437 (RNAV2) [GNSS,DME/DME, DME/DME/IRU]							Daegu ACC FREQ: 122.25 MHz 125.925 MHz 122.75 MHz ¹⁾
374203N 1284514È		100 280	47.2	UNL 8 000(6 400)	\		1) Common frequency
△ NOMEX 374112N 1294441E		100 281	25.0	Class A, D, G			Airspace Classification refer to ENR 3.1-1
△ BUSKO 374033N 1301610E	N/A	101	62.2	8 000(1 500) Class A, D, G			
▲ TENAS 373820N 1313427E		281					
△ MALSO		044 224	20.0	UNL			
375440N 1314904E ▲ KANSU(FIR BDRY)		044 225	53.3	FL 200(1 500) Class A, D, G		<u> </u>	
383800N 1322830E							
INCHEON FIR							1
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>

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

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

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

^{1.} DME GAP : SOSDO/OMKIM, OMKIM/PAPLU, PAPLU/AKPON, AKPON/NISAV GNSS required.

Change: Information of controlling unit and frequencies for Y571.

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

(N Na	Route designator lavigation specification) me of significant points	Waypoint IDENT of VOR/DME			Upper limits Lower limits (MOCA) ft AMSL or FL	Direct cruising	ion of levels	
	Coordinates lavigation Specification limitation] 1	BRG & DIST ELEV DME Antenna	MAG TRACK	Geodetic DIST NM 4	Airspace classification 5	Odd	Even	Remarks Controlling unit Frequency 7
	Y572 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]							Daegu ACC FREQ: 128.175 MHz 124.575 MHz
Δ	PSN 350721N 1285958E OLMUD		<u>249</u> 069	10.1	UNL 11 000(3 000) Class A, D, G		\	122.75 MHz ²) 2) Common frequency Airspace Classification refer to ENR 3.1-1
Δ	350225N 1284916E ENGOT		<u>237</u> 057	21.1	UNL 11 000(3 200) Class A, D, G			
Δ	344834N 1282952E POVOR		<u>237</u> 056	50.4	UNL 11 000(2 600) Class A, D, G			
	341520N 1274360E		236 056	26.8	UNL 11 000(2 000) Class A, D, G			
Δ	UPGOS 335733N 1271953E		236 056	17.0	UNL 11 000(1 500) Class A, D, G			Incheon ACC
Δ	BILUM 334613N 1270439E	N/A	<u>236</u> 056	10.5	UNL 11 000(1 500) Class A, D, G			FREQ: 124.525 MHz 132.425 MHz 132.20 MHz ⁴⁾ 4) Common frequency
Δ	BEPKO 333910N 1265514E		<u>230</u> 050	21.9	UNL 11 000(5 600) Class A. D. G			Airspace Classification refer to ENR 3.1-1
Δ	CJU 332305N 1263727E	-	169 349	10.2	UNL 11 000(8 700) Class A, D, G		\	The cruising levels from CJU to RUGM/are even levels due to operational
Δ	OMKIM 331320N 1264114E		169 349	13.8	UNL 11 000(1 500) Class A, D, G			reasons.* The cruising level from RUGMA to CJU
Δ	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.
Δ	RUGMA(FIR BDRY) 323012N 1265753E INCHEON FIR				Class A, D, G	<u> </u>		
	SHANGHAI FIR				·			

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

Change: Information of controlling unit and frequencies for Y572.

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 g levels Even	Remarks Controlling unit Frequency
1	2	3	4	5	(6	7
Y579 (RNAV2) [GNSS, DME/DME, DME/DME/IRU] TENAS							Daegu ACC FREQ: 122.25 MHz 134.375 MHz 120.575 MHz
373820N 1313427E		<u>228</u> 047	68.1			\	125.925 MHz 122.75 MHz ¹⁾ 1) Common frequency
364521N 1304044E		<u>229</u> 049	36.2	UNL FL 140(1 500) Class A, D, G			Airspace Classification refer to ENR 3.1-1
361743N 1301143E	N/A	<u>229</u> 048	28.1				
355609N 1294924E		<u>228</u> 048	40.2	UNL FL 140(2 700) Class A, D, G			
352513N 1291754E BUSAN VORTAC(PS 350721N 1285958E	N)	228 047	23.1	UNL FL 140(3 800) Class A, D, G	<u></u>		
0007211V 1200000L		1	1	1		1	

^{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.

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

			T	Upper limits			
				- · · · 			
Route designator	Waypoint			Lower limits (MOCA)		ion of levels	
(Navigation specification) Name of significant points	IDENT of VOR/DME			ft AMSL or FL			
Coordinates	BRG & DIST	MAG	Geodetic				Remarks
[Navigation Specification limitation]	ELEV DME Antenna	TRACK	DIST NM	Airspace classification	Odd	Even	Controlling unit Frequency
1	2	3	4	5		3	7
Y644							Daegu ACC
(RNAV2) [GNSS, DME/DME,							24094 7100
DME/DME/IRU]							FREQ: 128.70 MHz
							132.80 MHz 122.75 MHz ¹⁾
SANGHAI FIR INCHEON FIR							122.75 NHZ /
							1) Common frequency
▲ AGAVO(FIR BDRY)							Castle av vad
371010N 1235953E		<u>096</u>	11.8		↓		Eastbound (AGAVO-EGOBA)
△ RILRO		276					FL 410, FL 390, FL 370,
371033N 1241442E		096	0.1				FL 350, FL 330, FL 310, FL 290, FL 270, FL 250,
▲ GONAV		276	8.1				FL 230.
371048N 1242453E		096	20.0	UNL			
△ BODOL		277	20.0	FL 150(1 500)			REF. ENR 3.1-10 for the
371122N 1244954E		097	31.4	Class A, D, G			detailed altitude conversion
△ REBIT		277	31.4				procedures.
371203N 1252913E		007					
		<u>097</u> 278	15.0				Airspace Classification refer to ENR 3.1-1
△ BELTU							Telef to ENR 3.1-1
371218N 1254759E	N/A	000		UNL			
		<u>098</u> 278	32.1	8 000(2 400)			
△ BOGAN				Class A, D, G			
371241N 1262812E		200		UNL			
		<u>098</u> 278	17.6	8 000(3 200)			
△ MONSI		2.0		Class A, D, G			
371247N 1265015E				UNL			
		<u>098</u> 278	7.5	8 000(2 400)			
▲ POLEG		210		Class A, D, G			
371249N 1265935E				UNL			
		<u>057</u>	24.7	FL 140(3 300)			
△ EGOBA		237		Class A, D, G			
372915N 1272246E							

^{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>

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

		T T			111			ı
		Waypoint			Upper limits			
	Route designator	IDENT of VOR/DME			Lower limits (MOCA)		ion of levels	
	(Navigation specification) Name of significant points	BRG & DIST	MAG	Geodetic	ft AMSL or FL	•		Remarks
	Coordinates gation Specification limitation]	ELEV DME	TRACK	DIST	Airspace classification	Odd	Even	Controlling unit Frequency
INAVI	1	Antenna 2	3	NIVI 4	5		Even	7
	Y655 (RNAV2)							Daegu ACC
	[GNSS, DME/DME,							
	DME/DME/IRU]							FREQ : 132.80 MHz 128.70 MHz
•	GONAV 371048N 1242453E							120.76 MHz ¹⁾
	3/ 1040N 1242433E		188	12.2		↓		1) Common frequency
	DALPO		008	12.2				Airspace Classification
	365835N 1242453E				-			refer to ENR 3.1-1
			<u>188</u> 008	17.8				
\triangle	NONOS							
	364046N 1242453E							Incheon ACC FREQ: 132.15 MHz
			<u>188</u>					123.55 MHz
			008	70.1	UNL FL 140(1 500)			132.20 MHz ²⁾ 2) Common frequency
	DANPA				Class A, D, G			Airspace Classification
	252026N 1242452E				Class A, D, G			refer to ENR 3.1-1
	353036N 1242453E							Incheon ACC FREQ: 120.725 MHz
			188					128.30 MHz
	DALGA	N/A	<u>188</u> 007	88.9				132.20 MHz ³⁾ 3) Common frequency
	PALSA							Airspace Classification refer to ENR 3.1-1
	340131N 1242453E				_			Telef to LIVIX 3.1-1
	0401011 4 1242430L		<u>187</u>	11.0				Incheon ACC
	TOLIS		007	11.0				FREQ : 124.525 MHz 132.425 MHz
	335030N 1242453E		111		UNL			132.20 MHz ⁴⁾ 4) Common frequency
			<u>111</u> 291	73.0	9 000(1 500)			, ,
	LIMDI 333313N 1254953E				Class A, D, G UNL			Airspace Classification refer to ENR 3.1-1
	00001014 12040002		111	29.0	9 000(4 100)			
	REMOS		292		Class A, D, G			
	332605N 1262329E		110		UNL			
			<u>112</u> 292	12.1	9 000(8 700)			
_	JEJU VORTAC(CJU) 332305N 1263727E				Class A, D, G			
1. Crit	ical DME: SEL <gonav dalpo<="" td=""><td>>, KUZ<gona< td=""><td>//DALPO>, SI</td><td>_ EL<dalpo n<="" td=""><td>IONOS>, KUZ<dal< td=""><td>PO/NON</td><td>OS>, SE</td><td>L<nonos danpa="">,</nonos></td></dal<></td></dalpo></td></gona<></td></gonav>	>, KUZ <gona< td=""><td>//DALPO>, SI</td><td>_ EL<dalpo n<="" td=""><td>IONOS>, KUZ<dal< td=""><td>PO/NON</td><td>OS>, SE</td><td>L<nonos danpa="">,</nonos></td></dal<></td></dalpo></td></gona<>	//DALPO>, SI	_ EL <dalpo n<="" td=""><td>IONOS>, KUZ<dal< td=""><td>PO/NON</td><td>OS>, SE</td><td>L<nonos danpa="">,</nonos></td></dal<></td></dalpo>	IONOS>, KUZ <dal< td=""><td>PO/NON</td><td>OS>, SE</td><td>L<nonos danpa="">,</nonos></td></dal<>	PO/NON	OS>, SE	L <nonos danpa="">,</nonos>
2 DM	KUZ <nonos danpa<br="">IE GAP : DANPA/PALSA, PALS/</nonos>					/IRU red	uired	
	Y657	, sels, rock			S. SIVILIBIVIL		, • u	Incheon ACC
	(RNAV2) [GNSS, DME/DME,							FREQ: 123.725MHz
	DME/DME/IRU]							124.50 MHz 132.20 MHz ⁵⁾
	GWANGJU VOR(KWA)							5) Common frequency
	350734N 1264844E		072	EAT	10 000 8 000(7 100)	↓		Airspace Classification
	IGDOK		072 253	54.7	Class D			refer to ENR 3.1-1
	353104N 1274907E	N/A	070		10 000			Daegu ACC
			073 254	41.6	8 000(4 800)		_	FREQ :125.375 MHz
_	DALSEONG VORTAC(TGU) 354835N 1283527E				Class D		<u> </u>	125.775 MHz 124.575 MHz
	11.000							124.575 MHz 122.75 MHz ⁶⁾
								6) Common frequency
								Airspace Classification refer to ENR 3.1-1
				1				ICICI IU EINK 3.1-1

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

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Route designator (Navigation specification) Name of significant points Coordinates [Navigation Specification limitation]	Waypoint IDENT of VOR/DME BRG & DIST ELEV DME Antenna	MAG TRACK	Geodetic DIST NM 4	Upper limits Lower limits (MOCA) ft AMSL or FL Airspace classification 5	cruising Odd	tion of g levels Even	Remarks Controlling unit Frequency
Y659 (RNAV2) [GNSS, DME/DME, DME/DME/IRU] GUNSAN VORTAC(KUZ)		J	·				Incheon ACC FREQ: 126.175 MHz 134.375 MHz 132.20 MHz ¹⁾
355437N 1263641E △ ELPOS 355410N 1264707E		101 281	8.5	10 000 7 000(1 700)	\downarrow		Common frequency Airspace Classification
△ RINBO 355352N 1265349E		101 281	5.5	Class D 10 000			refer to ENR 3.1-1
△ MELES		<u>101</u> 282	17.8	7 000(3 700) Class D			
355251N 1271542E ▲ OPEDA	N/A	102 282	17.2	10 000 7 000(5 000)			
355149N 1273652E	IV/A	<u>102</u>	47.7	Class D 10 000 7 000(6 600)			Daegu ACC
▲ DALSEONG VORTAC(TGU) 354835N 1283527E		282	77.7	Class D UNL			FREQ :125.375 MHz 125.775 MHz
△ LAPAL		<u>085</u> 265	24.6	6 000(4 200) Class A, D, G			124.575 MHz 122.75 MHz ²⁾ 2) Common frequency
355413N 1290452E ▲ POHANG VORTAC(KPO)		<u>085</u> 265	19.7	UNL 6 000(3 300) Class A, D, G		<u> </u>	Airspace Classification refer to ENR 3.1-1
355838N 1292828E				Class A, D, G			-
Y677 (RNAV2)							Incheon ACC
[GNSS, DME/DME, DME/DME/IRU]							FREQ : 124.525 MHz 132.425 MHz 132.20 MHz ³⁾
▲ JEJU VORTAC(CJU) 332305N 1263727E		<u>089</u> 269	35.9	UNL 9 000(6 300)	<u> </u>		Airspace Classification refer to ENR 3.1-1
△ TAMNA 332815N 1271953E	N/A	089	49.8	Class A, D, G UNL 9 000(1 500)			Incheon ACC
▲ SAMDO(FIR BDRY) 333503N 1281857E		270	73.0	Class A, D, G		<u> </u>	FREQ: 128.175 MHz 128.325 MHz 132.20 MHz ⁴⁾
INCHEON FIR							Common frequency Airspace Classification
FUKUOKA FIR 1. Critical DME: PSN <cju tamna="">,</cju>	C.II.I <c.ii.i tan<="" td=""><td>MNA> PSN<</td><td>TAMNA/SAM</td><td>IDO> C.III<tam< td=""><td>NA/SAMF</td><td>)O></td><td>refer to ENR 3.1-1</td></tam<></td></c.ii.i>	MNA> PSN<	TAMNA/SAM	IDO> C.III <tam< td=""><td>NA/SAMF</td><td>)O></td><td>refer to ENR 3.1-1</td></tam<>	NA/SAMF)O>	refer to ENR 3.1-1

^{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.

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	Route designator	Waypoint			Upper limits		ion of	
Nam	vigation specification) le of significant points Coordinates vigation Specification limitation]	IDENT of VOR/DME BRG & DIST ELEV DME Antenna	MAG TRACK	Geodetic DIST NM	Lower limits (MOCA) ft AMSL or FL Airspace classification	Odd	levels Even	Remarks Controlling unit Frequency
	1 Y685	2	3	4	5	6		7
	(RNAV2)							Daegu ACC
•	[GNSS, DME/DME, DME/DME/IRU] ANYANG VORTAC(SEL)							FREQ: 132.80 MHz 128.70 MHz 118.925 MHz 120.525 MHz
_	372449N 1265542E				LINII	 		122.75 MHz ¹⁾ 1) Common frequency
•	KALMA		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
	371845N 1270645E				UNL			from RKTY or RKTI.
Δ	KAKSO		<u>133</u> 313	19.3	8 000(2 900) Class A, D, G			Aircraft flying eastbound from SEL to KPO at or above 11 000 ft on
	370745N 1272637E		133 313	11.5	UNL 8 000(3 600) Class A, D, G			Y685 shall get PPR 24 hours before from Incheon/Daegu ACC. No PPR is needed a or below 10 000 ft.
\triangle	GUKDO							Airspace Classification refer to ENR 3.1-1
	370111N 1273823E				UNL			
			<u>133</u> 314	9.2	8 000(3 700)			Daegu ACC
\triangle	ENSAL				Class A, D, G			FREQ: 120.575 MHz 119.375 MHz
\triangle	365554N 1274747E BASEM		<u>134</u> 314	9.2	UNL 8 000(4 000) Class A, D, G			134.375 MHz 122.75 MHz ²⁾ 2) Common frequency
	365037N 1275710E	N/A			UNL			Only flying westbound from KPO to SEL on
•	BIGOB		134 314	12.5	8 000(5 000) Class A, D, G			Y685 is authorized except ACFT departing from RKTY or RKTI.
	364325N 1280952E		404		UNL			Aircraft flying eastbound
^	VECHEON VOD/OUN'		134 314	9.5	8 000(4 900)			from SEL to KPO at of above 11,000 ft on
Δ	YECHEON VOR(CUN) 363755N 1281931E				Class A, D, G UNL			Y685 shall get PPR 24 hours before from
	000700N 1201801E		133 314	30.8	8 000(3 800)			Incheon/Daegu ACC. No PPR is needed a
\triangle	ELAPI		314	33.0	Class A, D, G			or below 10 000 ft.
	362014N 1285051E				UNL			Airspace Classification
			<u>134</u> 314	37.3	8 000(4 700)			refer to ENR 3.1-1
•	POHANG VORTAC(KPO)				Class A, D, G			
	355838N 1292828E		107	17.0	UNL			
Δ	BULGA		107 287	17.2	8 000(2 100) Class A, D, G			
	355609N 1294924E				UNL			
•	SAPRA(FIR BDRY)		107 287	44.4	8 000(1 500) Class A, D, G		<u> </u>	
	354926N 1304325E				, , ,			
	INCHEON FIR FUKUOKA FIR							

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

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	Route designator	Waypoint			Upper limits Lower limits		ion of	
Nam	vigation specification) le of significant points Coordinates vigation Specification limitation]	IDENT of VOR/DME BRG & DIST ELEV DME Antenna	MAG TRACK	Geodetic DIST NM	(MOCA) ft AMSL or FL Airspace classification	Odd	Even	Remarks Controlling unit Frequency
	Y697 (RNAV2) [GNSS, DME/DME, DME/DME/IRU] SANGHAI FIR	2	3	4	J			Daegu ACC FREQ: 128.70 MHz 132.80 MHz 122.75 MHz ¹⁾
	INCHEON FIR							1) Common frequency
▲	AGAVO(FIR BDRY) 371010N 1235953E OLBIM		<u>066</u> 246	7.5				Westbound(SEL-AGAVC FL 400, FL 380, FL 360 FL 340, FL 320, FL 300 FL 280, FL 260, FL 240
Δ	371411N 1240751E NOGON	-	<u>066</u> 246	16.2				FL 220, FL 200. REF. ENR 3.1-9 for th
<u>△</u>	372250N 1242505E ANSIM		<u>097</u> 277	20.0	UNL FL 150(1 500)			detailed Altitude conversion procedures. Only flying westbound from SEL to AGAVO of
△ △	372323N 1245009E BINIL		<u>097</u> 277	19.0	Class A, D, G			from SEL to AGAVO of Y697 is authorized.
<u> </u>	372349N 1251359E NOPIK		<u>097</u> 277	20.0	-			
	372412N 1253905E GOGET		<u>097</u> 278	41.0	UNL 8 000(2 100)			
_	372442N 1263036E		<u>098</u> 278	20.0	Class A, D, G UNL		<u> </u>	
	ANYANG VORTAC(SEL) 372449N 1265542E	_	278 087 267	22.0	7 500(3 400) Class A, D, G	\		Daegu ACC
\triangle	EGOBA 372915N 1272246E KARBU	N/A	087 267	13.9	UNL 7 500(5 100) Class A, D, G			FREQ: 132.80 MHz 118.925 MH 122.75 MHz 2) Common frequency Airspace Classificatio refer to ENR 3.1-1
→	373159N 1273952E		<u>087</u> 268	22.9	UNL 7 500(4 500)			Daegu ACC
\triangle	TORUS 373625N 1280807E	_		24.0	Class A, D, G UNL 7,500(7,500)			FREQ: 134.175 MHz 123.65 MHz 122.75 MHz ³
\triangle	BIKSI 374032N 1283504E		268 	21.8	7 500(7 500) Class A, D, G UNL 7 500(7 100)			3) Common frequencyAirspace Classification refer to ENR 3.1-1
A	GANGWON VORTAC(KAE) 374203N 1284514E		268	0.2	Class A, D, G UNL			Danier 400
•	PILIT		130 310	30.0	8 000(7 100) Class A, D, G			Daegu ACC FREQ: 134.175 MHz
\triangle	372631N 1291731E NIMUS		<u>130</u> 310	27.5	UNL			123.65 MHz 122.75 MHz ⁴ 4) Common frequency
\triangle	371210N 1294656E AGSUS		<u>130</u> 310	50.8	9 000(1 500) Class A, D, G			Only flying westboun from LANAT to KAE on G597 shall get
•	364521N 1304044E LANAT(FIR BDRY)		<u>130</u> 311	42.9			1	24HRs PPR from Daegu ACC.
	362224N 1312542E INCHEON FIR FUKUOKA FIR							Airspace Classificatio refer to ENR 3.1-1

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

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

(Nav Name	Route designator rigation specification) e of significant points Coordinates rigation Specification	Waypoint IDENT of VOR/DME BRG & DIST ELEV DME	MAG TRACK	Geodetic DIST	Upper limits Lower limits (MOCA) ft AMSL or FLAirspace	cruising	tion of levels	Remarks Controlling unit
	limitation]	Antenna 2	3	NM 4	classification 5	Odd	<u>Even</u>	Frequency 10
Δ	Y711 (RNAV2) [GNSS, DME/DME, DME/DME/IRU] MONSI 371247N 1265015E	-					1	Daegu ACC FREQ: 132.80 MHz 128.70 MHz 122.75 MHz ¹⁾ 1) Common frequency
Δ	BULTI		<u>190</u> 010	29.4	UNL FL 140(2 900)			Airspace Classification refer to ENR 3.1-1
Δ	364322N 1264930E MEKIL		<u>187</u> 007	10.0	Class A, D, G			Incheon ACC FREQ: 132.150 MHz
Δ	363322N 1264953E GONAX		187 006	10.2	UNL			123.55 MHz 132.20 MHz ²⁾ 2) Common frequency
Δ	362311N 1265016E BEDES		<u>193</u> 013	14.1	FL 140(3 200) Class A, D, G			Airspace Classification refer to ENR 3.1-1
Δ	360905N 1264844E ELPOS		<u>193</u> 013	14.9	UNL FL 140(2 200)			
	355410N 1264707E		<u>193</u> 013	24.0	Class A, D, G UNL FL 140(2 800)			
	MANGI 353011N 1264432E		<u>193</u>	22.7	Class A, D, G UNL FL 140(3 800)			Incheon ACC FREQ: 120.725 MHz
\triangle	DALSU 350731N 1264206E		013 <u>193</u>	52.4	Class A, D, G UNL FL 140(4 000)			128.30 MHz 132.20 MHz ³⁾ 3) Common frequency
\triangle	DOTOL 341515N 1263637E	N/A	193		Class A, D, G UNL			Airspace Classification refer to ENR 3.1-1
\triangle	KIDOS 335028N 1263402E		012	24.8	FL 140(2 700) Class A, D, G UNL			Incheon ACC FREQ: 124.525 MHz 132.425 MHz
Δ	REMOS 332605N 1262329E		<u>207</u> 027	25.9	FL 140(6 000) Class A, D, G UNL			132.20 MHz ⁴ / ₄) Common frequency
Δ	PANSI		<u>207</u> 027	27.4	FL 140(6 300) Class A, D, G			Airspace Classification refer to ENR 3.1-1
Δ	330014N 1261225E DOMKO		<u>207</u> 027	33.4				
Δ	322848N 1255859E PONIK 320021N 1254659E		207 027	30.1				Incheon ACC FREQ : (At or above FL
Δ	IKEDO 314314N 1253948E		207 027	18.2	UNL FL 140(1 500)			133.425 MHz 134.15 MHz 132.20 MHz ⁵
Δ	KANKA 313155N 1253504E		<u>207</u> 026	12.0	Class A, D, G			(below FL 335) 125.725 MHz 132.825 MHz 128.375 MHz
\triangle	BONSO 302840N 1250851E		<u>207</u> 026	67.0				132.20 MHz ⁵⁾ 5) Common frequency
•	MUGUS(FIR BDRY) 300006N 1245712E		<u>206</u> 026	30.2				Airspace Classification refer to ENR 3.1-1

FUKUOKA FIR

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 or DME/DME/IRU required.

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

	<u> </u>							
(Na	Route designator vigation specification) ne of significant points	Waypoint IDENT of			Lower limits (MOCA)		tion of g levels	
	Coordinates avigation Specification limitation]	VOR/DME BRG & DIST ELEV DME Antenna	MAG TRACK 3	Geodetic DIST NM	ft AMSL or FL Airspace classification 5	Odd	Even	Remarks Controlling unit Frequency
	Y722 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]	_		·				Incheon ACC FREQ: 126.175 MHz 134.375 MHz
•	SONGTAN VORTAC(SOT) 370540N 1270154E				UNL			132.20 MHz ¹⁾ 1) Common frequency
	OLMEN		<u>194</u> 014	21.5	FL 140(3 100) Class A, D, G			Airspace Classification refer to ENR 3.1-1
	364413N 1265928E		187	10.0	UNL FL 140(3 600)			
\triangle	GUNKU 363414N 1265949E		007	10.0	Class A, D, G			
Δ	PEBRI		<u>187</u> 007	11.0	FL 140(3 300) Class A, D, G			
	362311N 1270013E		193	29.5	UNL FL 140(2 300)			
\triangle	ATASO 355344N 1265657E		013	20.0	Class A, D, G			
	MAKSA		<u>193</u> 013	23.6	FL 140(3 800)			
	353011N 1265422E		193	22.7	Class A, D, G UNL			Incheon ACC
	SAMUL 250726N 12651515		013	22.1	FL 140(4 000) Class A, D, G			FREQ: 123.725 MHz 124.50 MHz 132.20 MHz ²⁾
	350736N 1265154E KAMIT		<u>193</u> 013	52.5	UNL FL 140(3 400)			2) Common frequency Airspace Classification
	341514N 1264618E		102		Class A, D, G UNL			refer to ENR 3.1-1
	GUKSU	N/A	<u>193</u> 013	22.4	FL 140(2 100) Class A, D, G			Incheon ACC FREQ: 124.525 MHz
	335251N 1264357E		193 012	19.6	UNL FL 140(1 700)			132.425 MHz 132.20 MHz ³⁾
	LOSNI 333315N 1264153E		207		Class A, D, G UNL			3) Common frequency
•	JEJU VORTAC(CJU)		027	10.8	FL 140(7 600) Class A, D, G			Airspace Classification refer to ENR 3.1-1
	332305N 1263727E		<u>207</u> 027	24.3	UNL FL 140(8 700)			
	SOSDO 330012N 1262735E		<u>207</u>	29.5	Class A, D, G			
	SAMLO 323223N 1261536E		027 <u>207</u>					Incheon ACC
Δ	NIRAT		<u>207</u> 027	30.2				FREQ: (At or above FL 335 133.425 MHz
	320354N 1260329E ELGEP		<u>207</u> 027	18.1	UNL FL 140(1 500)			134.15 MHz 132.20 MHz ⁴⁾ (below FL 335)
	314653N 1255617E TESIM		<u>207</u> 027	12.1	Class A, D, G			125.725 MHz 132.825 MHz 128.375 MHz
	313526N 1255128E		207	100.9	-			132.20 MHz ⁴⁾ 4) Common frequency
•	ATOTI(FIR BDRY)		026	100.9		<u> </u>		Airspace Classification refer to ENR 3.1-1
	300013N 1251154E							
	INCHEON FIR SANGHAI FIR							
I	JANGHAI FIK	I .						1

OFFICE OF CIVIL AVIATION

AIRAC AIP AMDT 11/22

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 or DME/DME/IRU required.

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

		Waypoint			Upper limits		ion of	
		IDENT of			Lower limits	crui	sing ⁄els	
	Route designator	VOR/DME			(MOCA)	iev		
(I	Navigation specification) ame of significant points	BRG & DIST	MAG	Geodetic	ft AMSL or FL			Remarks
	Coordinates	ELEV DME	TRACK	DIST	Airspace			Controlling unit
[Navig	ation Specification limitation]	Antenna	0	NM	classification	Odd	Even	Frequency
	1	2	3	4	5		6	7
	Y744							D 400
	(RNAV2)							Daegu ACC
	[GNSS, DME/DME,							FREQ: 134.175 MHz 120.575 MHz
	DME/DME/IRU]							
								123.65 MHz 119.375 MHz
_	PILIT							119.375 MHz ¹⁾
	372631N 1291731E		183		UNL		↓	1) Common frequency
			003	19.3	9 000(4 900)			1) Common frequency
\triangle	NOBUT		000		Class A, D, G			1. 11 000 ft to FL 240,
	370715N 1291957E				UNL			at or above FL 280
			<u>183</u>	47.2	9 000(5 600)			will be blocked.
	LOSTO		003		Class A, D, G			
	362016N 1292548E		465		UNL	1		2. At or above 11 000 ft,
		N/A	<u>183</u>	21.7	9 000(2 100)			required 15 days PPR
•	POHANG VORTAC(KPO)		003		Class A, D, G			from Air Traffic
-	355838N 1292828E				UNL			Management Office.
			<u>213</u>	37.2	9 000(4 400)			
	APARU		033	0	Class A, D, G			3. Airspace Classification
	352442N 1290932E				UNL			refer to ENR 3.1-1
	332		<u>213</u>	19.0	9 000(4 400)			
•	BUSAN VORTAC(PSN)		032	10.0	Class A, D, G	↑		
	350721N 1285958E				Glass 7 t, D, C			
				1	1			
	Y781							
	(RNAV2)							Daegu ACC
	[GNSS, DME/DME,							FREQ: 125.375 MHz
	DME/DME/IRU]							125.775 MHz
	DALSEONG VORTAC(TGU)							124.575 MHz
_					UNL			122.75 MHz ²⁾ 2) Common frequency
	354835N 1283527E		192	40.0		*		2) Common frequency
			012	19.8	7 000(4 900)			
	MASTA				Class A, D, G			Airspace Classification
	352847N 1283340E		162		UNL			refer to ENR 3.1-1
			342	23.6	7 000(4 000)			
Δ	ANKUS	N/A	U-12		Class A, D, G			
	350730N 1284616E	N/A			UNL			
			<u>162</u>	7.7	7 000(3 500)			
Δ	OMOTU		342		Class A, D, G			
-	350033N 1285022E				UNL			
	3333331N 1203022E		<u>156</u>	27.2	7 000(2 800)			
	DECNA/FID DDDY/		336	27.3	1			
_	BESNA(FIR BDRY)				Class A, D, G			
	343718N 1290751E							
	INCHEON FIR				1			_
	FUKUOKA FIR							
1 Crit	ical DME : PSN <omotu be<="" td=""><td>SNA> CJU<</td><td>OMOTU/BES</td><td>SNA></td><td></td><td></td><td></td><td>1</td></omotu>	SNA> CJU<	OMOTU/BES	SNA>				1

^{1.} Critical DME: PSN<OMOTU/BESNA>, CJU<OMOTU/BESNA>
2. DME GAP: ANKUS/OMOTU, GNSS or DME/DME/IRU required. * RNAV2 represents a navigation accuracy of ±2 NM on a 95% containment basis.

Y782 (RNAV2) [GNSS, DME/DME, DME/DME, DME/DME/RIVI] A ANYANG VORTAC(SEL) 372449N 1265542E A POLEG 371249N 1265935E A SONGTAN VORTAC(SOT) 370540N 1270154E A OSPOT 365018N 1272055E A MAKDU 362712N 1274909E A BITUX 361645N 1280148E A DALSECNG VORTAC(TGU) 353012N 1284626E A BUSAN VORTAC(PSN) 350721N 1285958E A APELA(FIR BDRY) A DALSECNG VORTAC(PSN) 350721N 1285958E A APELA(FIR BDRY) Daegu ACC FREG: 128.70 MHz 120.525 Hdz 120.525 MHz 120.	Route designator (Navigation specification) Name of significant points Coordinates [Navigation Specification limitation]	Waypoint IDENT of VOR/DME BRG & DIST ELEV DME Antenna	MAG TRACK 3	Geodetic DIST NM 4	Lower limits (MOCA) ft AMSL or FL Airspace classification 5	cruising Odd	ion of plevels	Remarks Controlling unit Frequency 7
372449N 1265542E 174 354 12.4 4 500(3 000) Gass A D, G UNL 354 249N 1265935E 174 354 7.4 4 500(2 000) Gass A D, G UNL 4 500(2 000) Gass A D, G UNL 365018N 12720154E 174 354 7.4 4 500(2 000) Gass A D, G UNL 8 000(3 300) Gass A D, G UNL 8 000(3 300) Gass A D, G UNL 8 000(3 300) Gass A D, G UNL 36252N 1273003E 144 324 21.6 UNL 8 000(3 300) Gass A D, G UNL 8 000(4 200) Gass A D, G UNL 362712N 1274909E 144 324 21.9 UNL 8 000(4 200) Gass A D, G UNL 122.75 MHz 122.75	(RNAV2) [GNSS, DME/DME, DME/DME/IRU]							FREQ: 128.70 MHz 120.525 MHz
A SONGTAN VORTAC(SOT) 370540N 1270154E 174 354 7.4 4500(2000) Cass A, D, G A SONGTAN VORTAC(SOT) 370540N 1270154E 144 324 21.6 UNL 8 000(3 300) Cass A, D, G A VASLI 366252N 1273003E 144 324 21.9 UNL 8 000(4 200) Cass A, D, G A MAKDU 362712N 1274909E N/A BITUX 361645N 1280148E 144 324 14.6 Cass A, D, G A DALSEONG VORTAC(TGU) 354835N 1283527E 162 342 20.4 8 000(4 400) Cass A, D, G 342 25.4 5 000(3 600) Cass A, D, G 342 25.4 5 000(3 600) Cass A, D, G 342 25.4 5 000(3 600) Cass A, D, G 342 26.6 4 000(3 000) Cass A, D, G 342 26.6 6 000(3 000) Cass A, D, G 342 26.6 6 000(3 000) Cass A, D, G 342 26.6 6 000(3 000) Cass A, D, G 342 26.6 6 000(3 000) Cass A, D, G 342 26.6 6 000(3 000) Cass A, D, G 342 26.6 6 000(3 000) Cass A, D, G 342 26.6 6 000(3 000) Cass A, D, G 342 26.6 6 000(3 000) Cass A, D, G 342 26.6 6 000(3 000) Cass A, D, G 342 26.6 6 000(3 000) Cass A, D, G 342 26.6 6 000(3 000) Cass A, D, G 342 26.6 6 000(3 000) Cass A, D, G 342 26.6 6 000(3 000) Cass A, D, G 342 26.6 6 000(3 000) Cass A, D, G 34	372449N 1265542E ▲ POLEG			12.4	4 500(3 000) Class A, D, G	\		1) Common frequency Airspace Classification
△ OSPOT 365018N 1272055E 144/324 21.6 UNL 8 000(3 300) △ VASLI 364252N 1273003E 144/324 10.4 Class A, D, G △ MAKDU 362712N 1274909E N/A 144/324 21.9 UNL 8 000(4 200) △ BITUX 361645N 1280148E 144/324 14.6 Class A, D, G △ DALSEONG VORTAC(TGU) 354835N 1283527E 162/342 20.4 8 000(4 400) Class A, D, G △ KALOD 353012N 1284626E 162/342 20.4 8 000(4 400) Class A, D, G ▲ BUSAN VORTAC(PSN) 350721N 1285958E 162/342 25.4 5 000(3 600) Class A, D, G ▲ APELA(FIR BDRY) 162/342 26.6 4 000(3 000) Class A, D, G	▲ SONGTAN VORTAC(SOT)			7.4	4 500(2 000)			Total to Livit 0.1 T
A VASLI 364252N 1273003E 324 10.4 324 10.4 Daegu ACC A MAKDU 362712N 1274909E N/A 144 324 21.9 UNL 8 000(4 200) 125.775 MHz 125.775 MHz 125.775 MHz 124.575 MHz 122.75 MH	△ OSPOT		324		8 000(3 300)			
△ MAKDU 362712N 1274909E N/A 324 UNL 8 000(4 200) 124.575 MHz 122.75 MHz	** ** == *		324 144		, ,			FREQ: 125.375 MHz
361645N 1280148E	362712N 1274909E	N/A	144	-	8 000(4 200)			122.75 MHz ²⁾
354835N 1283527E △ KALOD 353012N 1284626E A BUSAN VORTAC(PSN) 350721N 1285958E A APELA(FIR BDRY) 162	361645N 1280148E		144 324	39.2	10 000(4 500)			Airspace Classification
▲ BUSAN VORTAC(PSN) 350721N 1285958E 25.4 5000(3 600) ▲ APELA(FIR BDRY) 162/342 25.4 5000(3 600) Class A, D, G UNL 4 000(3 000) Class A, D, G	354835N 1283527E			20.4	UNL 8 000(4 400) Class A, D, G			
△ APELA(FIR BDRY) 162/342 26.6 4 000(3 000) Class A, D, G	▲ BUSAN VORTAC(PSN)			25.4	5 000(3 600) Class A, D, G			
				26.6	4 000(3 000)		<u></u>	

^{*} 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>

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Naı	Route designator avigation specification) me of significant points Coordinates lavigation specification	Waypoint IDENT of VOR/DME BRG & DIST ELEV DME	MAG TRACK		Airspace	Directio cruising	levels	Remarks Controlling unit
	limitation]	Antenna	°	NM	classification	Odd	Even	Frequency
Δ	Z50 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]	2	3	4	5	6		7 Daegu ACC FREQ: 128.70 MHz 134.175 MHz 122.75 MHz ¹⁾
•	372915N 1272246E SONGTAN VORTAC(SOT)	N/A	224 044	28.8	UNL FL 140(3 300) Class A, D, G		\	1) Common frequency Airspace Classification refer to ENR 3.1-1
	370540N 1270154E BULTI 364322N 1264030E		213 032	24.4	UNL FL 140(2 900) Class A, D, G	<u> </u>		
	364322N 1264930E	1						
Δ	Z51 (RNAV2) [GNSS, DME/DME, DME/DME/IRU] BOPTA							Incheon ACC FREQ: 132.15 MHz 123.55 MHz
Δ	364406N 1263658E MOXID 362311N 1264359E	N/A	173 353	21.6	UNL FL 150(3 900) Class A, D, G UNL		\	132.20 MHz ²⁾ 2) Common frequency
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: 126.175 MHz 134.375 MHz
	364413N 1265928E POSAN		<u>051</u> 231	16.4	UNL 8 000(3 400) Class A, D, G	\		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							
Δ	Z53 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]							Daegu ACC FREQ: 125.375 MHz 120.575 MHz
	361645N 1280148E TEBEX	N/A	<u>002</u> 182	17.0	UNL FL 160(4 000) Class A, D, G		↓	125.775 MHz 119.375 MHz 122.75 MHz ⁴⁾ 4) Common frequency
Δ	363341N 1275929E BASEM 365037N 1275710E	IVA	<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
	JUJUJIN IZIJI IUE							
								î.

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

	Dente de l'orden	Waypoint IDENT of			Upper limits Lower limits	Directi cruising		
N	Route designator Navigation specification) ame of significant points Coordinates gation Specification limitation]	VOR/DME BRG & DIST ELEV DME Antenna	MAG TRACK	Geodetic DIST NM	(MOCA) ft AMSL or FL Airspace classification	Odd	Even	Remarks Controlling unit Frequency
	1 Z54	2	3	4	5	6	; 	7
	(RNAV2)							Daegu ACC
	[GNSS, DME/DME, DME/DME/IRU]							FREQ: 128.70 MHz 132.80 MHz
•	SONGTAN VORTAC(SOT) 370540N 1270154E				UNL		<u> </u>	120.525 MHz 122.75 MHz ¹⁾
Δ	MONSI		<u>316</u> 136	11.7	8 000(2 400) Class A, D, G			Common frequency Airspace Classification
\triangle	371247N 1265015E	N/A	<u>316</u>	19.7	UNL 8 000(2 300)			refer to ENR 3.1-1
\triangle	GOGET		136	10.7	Class A, D, G	↑		
	372442N 1263036E				Gass A, D, O			
	Z55						1	
	(RNAV2) [GNSS, DME/DME, DME/DME/IRU]							Daegu ACC FREQ: 128.70 MHz
	SANGHAI FIR							132.80 MHz
	INCHEON FIR							122.75 MHz ²⁾
	THO I LOT I II I							
\triangle	AGAVO(FIR BDRY)							2) Common frequency
	371010N 1235953E		454		UNL			
		N/A	154 334	35.5	FL 140(1 500)			Airspace Classification refer to ENR 3.1-1
\triangle	NONOS				Class A, D, G		1	10101 10 2111 0.1 1
	364046N 1242453E							
1. Crit	cal DME : SEL <agavo nonos<="" td=""><td>>, KUZ<agav(< td=""><td>O/NONOS></td><td></td><td></td><td></td><td></td><td>Γ</td></agav(<></td></agavo>	>, KUZ <agav(< td=""><td>O/NONOS></td><td></td><td></td><td></td><td></td><td>Γ</td></agav(<>	O/NONOS>					Γ
	Z56 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]							Daegu ACC
	DME/DME/IROJ							FREQ: 122.25 MHz 125.925 MHz
	PYONGYANG FIR							122.75 MHz ³⁾
	INCHEON FIR							
•	KANSU(FIR BDRY)							3) Common frequency
Δ	383800N 1322830E PALDU		180 360	40.2		\		Airspace Classification
•	375813N 1323625E SABET	N/A	180 360	19.9	UNL FL 200(1 500)			refer to ENR 3.1-1
	373829N 1324019E		180 360	19.9	Class A, G		↑	
•	IGRAS(FIR BDRY) 371846N 1324411E						<u> </u>	
	INCHEON FIR FUKUOKA FIR	100	10.15					
2. DM	cal DME : KAE <paldu sabet=""> E GAP : KANSU/PALDU, GNSS W2 represents a pavigation ac</paldu>	or DME/DME/I	RU required	d.		- I/IGRAS	>	

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

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(N Na	Route designator lavigation specification) me of significant points	Waypoint IDENT of VOR/DME BRG &			Upper limits Lower limits (MOCA) ft AMSL or FL	crui	ion of sing els	_
1]	Coordinates lavigation Specification limitation] 1	DIST ELEV DME Antenna 2	MAG TRACK	Geodetic DIST NM 4	Airspace classification 5		Even	Remarks Controlling unit Frequency 7
Δ	Z57 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]							Daegu ACC FREQ: 128.70 MHz 132.80 MHz 122.75 MHz ¹⁾
Δ	371033N 1241442E DALPO 365835N 1242453E	N/A	<u>154</u> 334	14.5	UNL FL 150(1 500) Class A, D, G			Common frequency Airspace Classification refer to ENR 3.1-1
1. Crit	ical DME : SEL <rilro da<="" td=""><td>LPO>, KUZ<</td><td>RILRO/DAL</td><td>.PO></td><td></td><td></td><td></td><td></td></rilro>	LPO>, KUZ<	RILRO/DAL	.PO>				
	Z63 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]							Daegu ACC FREQ: 134.175 MHz 123.65 MHz
•	PILIT 372631N 1291731E	N/A	<u>064</u> 245	26.1	UNL FL 250(1 500) Class A, G	\		122.75 MHz ²⁾ 2) Common frequency Airspace
Δ	NOMEX 374112N 1294441E				Olass A, O		<u> </u>	Classification refer to ENR 3.1-1
1. Crit	ical DME : KAE <pilit non<="" td=""><td>MEX>, KPO<f< td=""><td>PILIT/NOME</td><td>:X></td><td></td><td></td><td></td><td></td></f<></td></pilit>	MEX>, KPO <f< td=""><td>PILIT/NOME</td><td>:X></td><td></td><td></td><td></td><td></td></f<>	PILIT/NOME	:X>				
	Z81 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]							Incheon ACC FREQ: 124.525 MHz
	KIDOS 335028N 1263402E				UNL			132.425 MHz 132.20 MHz ³⁾ 3) Common frequency
•	JEJU VORTAC(CJU)	N/A	<u>182</u> 001	27.5	FL 140(8 700) Class A, D, G		•	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
•	JEJU VORTAC(CJU) 332305N 1263727E	N/A	230 050	31.0	UNL FL 140(8 700)		\downarrow	132.20 MHz ⁴⁾ 4) Common frequency Airspace Classification
Δ	PANSI 330014N 1261225E				Class A, D, G			refer to ENR 3.1-1
1. DM	E GAP : CJU/PANSI, GNS	S or DME/DI	ME/IRU red	juired				

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

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				Upper limits	Direct	ion of	
Route designator	Waypoint IDENT of			Lower limits (MOCA)		tion of levels	
(Navigation specification) Name of significant points	VOR/DME BRG & DIST	MAG	Geodetic	ft AMSL of FL			Remarks
Coordinates (Navigation Specification limitation)	ELEV DME	TRACK	DIST	Airspace classification	Odd	Even	Controlling unit Frequency
1	2	3	4	5	_	6	7
Z83							
(RNAV2) [GNSS, DME/DME,							
DME/DME/IRU]							
▲ DALSEONG VORTAC(TGU)				1.18.11			
354835N 1283527E		<u>192</u>	19.8	UNL 5 000(4 900)		*	Daegu ACC
△ MASTA		012	19.0	Class A, D, G			FREQ: 125.375 MHz
352847N 1283340E				UNL	1		125.775 MHz
		192 012	21.2	5 000(3 800)			124.575 MHz 122.75 MHz ¹⁾
△ SARAM	N/A	012		Class A, D, G			
350736N 1283147E	19/7	193		UNL			1) Common frequency
∧ ENCCT		013	19.1	5 000(3 000)			Airspace Classification
△ ENGOT 344834N 1282952E				Class A, D, G UNL	+		refer to ENR 3.1-1
344634N 1262952E		<u>188</u>	10.6	5 000(2 300)			
△ ANROD		008	10.0	Class A, D, G	 ↑		
343758N 1282952E							
1. Critical DME : PSN <tgu mast<="" td=""><td>ΓΔ> TGU<tgu< td=""><td>I/MASTA:</td><td>PSN<ΜΔ</td><td>STA/SARAM> T</td><td>L GU<mas< td=""><td>TA/SAR/</td><td></td></mas<></td></tgu<></td></tgu>	ΓΔ> TGU <tgu< td=""><td>I/MASTA:</td><td>PSN<ΜΔ</td><td>STA/SARAM> T</td><td>L GU<mas< td=""><td>TA/SAR/</td><td></td></mas<></td></tgu<>	I/MASTA:	PSN<ΜΔ	STA/SARAM> T	L GU <mas< td=""><td>TA/SAR/</td><td></td></mas<>	TA/SAR/	
PSN <saram en<="" td=""><td></td><td></td><td></td><td>15 I A/SAKAIVI>, I</td><td>GU<nas< td=""><td>IA/SAKA</td><td>AIVI>,</td></nas<></td></saram>				15 I A/SAKAIVI>, I	GU <nas< td=""><td>IA/SAKA</td><td>AIVI>,</td></nas<>	IA/SAKA	AIVI>,
2. DME GAP : ENGOT/ANROD, (
Z84							
(RNAV2) [GNSS, DME/DME,							Daegu ACC
DME/DME/IRU]							FREQ: 125.375 MHz
							125.775 MHz
△ BUSAN VORTAC(PSN) 350721N 1285958E				UNL			124.575 MHz 122.75 MHz ²⁾
330721N 1203930E	N/A	<u>091</u>	43.8	8 000(3 100)	↓		2) Common frequency
▲ KALEK(FIR BDRY)	IN/A	272	43.0	Class A, D, G		1	Airspace Classification
351232N 1295305E				Class A, D, G			refer to ENR 3.1-1
INCHEON FIR FUKUOKA FIR							
FUNUUNA FIR							
Z85							
(RNAV2) [GNSS,							Incheon ACC
DME/DME/IRU]							FREQ : 124.525 MHz
-							128.175 MHz
△ BILUM							132.20 MHz ³⁾
334613N 1270439E		<u>192</u>	11.5	UNL	*		3) Common frequency
△ PAPLU	N/A	012		FL 170(1 500)			
333441N 1270337E	19/7	<u>192</u>	04.5	, ,			Airspace Classification
▲ RUGMA(FIR BDRY)		011	64.5	Class A, D, G		↑	refer to ENR 3.1-1
323012N 1265753E							
W.G G							
INCHEON FIR							
ELIKLIOKY EID							
FUKUOKA FIR 1. DME GAP : BILUM/PAPLU, PA	ADLIJ/RLIGMA	GNSS ro	nuired				

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

Change: Information of Z83 and Z85.

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	1			I I I I I I I I I I I I I I I I I I I			1
				Upper limits	Direct	ion of	
Route designator	Waypoint IDENT of			Lower limits	cruising		
(Navigation specification) Name of significant points	VOR/DME			(MOCA) ft AMSL or FL	,		
Coordinates	BRG & DIST	MAG	Geodetic				Remarks
[Navigation Specification	ELEV DME	TRACK	DIST	Airspace	0.1.1	-	Controlling unit
limitation]	Antenna 2	3	NM 4	classification 5	Odd	Even	Frequency 10
Z86			7	Ü			Incheon ACC
(RNAV2)							moneon Acc
[GNSS,							FREQ: 124.525 MHz
DME/DME/IRU]							132.20 MHz ¹⁾
△ BONSO							1) Common frequency
302840N 1250851E		404		UNL		↓	
	N/A	<u>181</u> 001	28.5	FL 140(1 500)			
▲ ATOTI(FIR BDRY)		001		Class A. D. G			Airspace Classification refer to ENR 3.1-1
300013N 1251154E							reier to ENR 3.1-1
300013N 1231134L							
INCHEON FIR							
FUKUOKA FIR							
1 DME CAR - BONCO/ATOTI /	CNICC DME	/DME/IDLI					
1. DME GAP : BONSO/ATOTI, (GNSS OF DIVIE	/DIVIE/IRU	requirea.				
Z91							Daegu ACC
(RNAV2)							
[GNSS, DME/DME,							FREQ: 125.375 MHz
DME/DME/IRU]							125.775 MHz
							124.575 MHz
▲ BUSAN VORTAC(PSN)							122.75 MHz ²⁾
350721N 1285958E				UNL	\downarrow		2) Common frequency
	N/A	<u>149</u>	25.6	10 000(3 000)			
▲ INVOK(FIR BDRY)		329		Class A, D, G		<u></u>	Airspace Classification
, , ,				C,233 A, D, O		'	refer to ENR 3.1-1
344719N 1291923E							
INCHEON FIR							
FUKUOKA FIR							
FUNUUNA FIN							

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

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Route designator (Navigation specification) Name of significant points Coordinates [Navigation Specification limitation]	Waypoint IDENT of VOR/DME BRG & DIST ELEV DME Antenna	MAG TRACK	Geodetic DIST NM 4	Upper limits Lower limits (MOCA) ft AMSL or FL Airspace classification	Direct cruising Odd	ion of levels	Remarks Controlling unit Frequency
Y590 (RNAV2) [GNSS, DME/DME/IRU]	-		7	5	•		Incheon ACC FREQ : (At or above FL 335
FUKUOKA FIR INCHEON FIR							133.425 MHz
▲ BEDAR(FIR BDRY) 315401N 1262910E △ ELGEP		<u>263</u> 082	28.9				134.15 MHz 132.20 MHz ¹⁾ (below FL 335) 125.725 MHz 132.825 MHz
314653N 1255617E \(\triangle \text{ IKEDO}\)	N/A	<u>262</u> 082	14.5	UNL FL 240(1 500) Class A, G			128.375 MHz 132.20 MHz ¹⁾
314314N 1253948E ▲ SADLI		<u>288</u> 108	34.5		↑		1) Common frequency Airspace Classification refer to ENR 3.1-1
314948N 1250000E							

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

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^{2.} 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.

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