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 3	Geodetic DIST NM 4	Upper limits Lower limits (MOCA) ft AMSL or FL Airspace classification	cruisino Odd	ion of levels	Remarks Controlling unit Frequency
V427		3	4	5	,) 	/
Y437 (RNAV2) [GNSS,DME/DME, DME/DME/IRU] GANGA/ON VORTAQ(KAE)							Daegu ACC FREQ: 122.25 MHz 125.925 MHz 122.75 MHz ¹⁾
374203N 1284514E △ NOMEX		100 280	47.2	UNL 8 000(6 400) Class A, D, G	\downarrow		1) Common frequency
374112N 1294441E △ BUSKO		<u>100</u> 281	25.0	UNL			Airspace Classification refer to ENR 3.1-1
374033N 1301610E	N/A	<u>101</u> 281	62.2	8 000(1 500) Class A, D, G			
373820N 1313427E △ MALSO		<u>044</u> 224	20.0	UNL			
375440N 1314904E • KANSU(FIR BDRY)		044 225	53.3	FL 200(1 500) Class A, D, G		↑	
383800N 1322830E							
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>

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

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

				Upper limits			
Pouto designator	Maymaint				Direct	ion of	
Route designator (Navigation specification)	Waypoint IDENT of			Lower limits (MOCA)	cruising	levels	
Name of significant points	VOR/DME			ft AMSL or FL			
Coordinates [Navigation Specification	BRG & DIST	MAG TRACK	Geodetic	Airspace			Remarks Controlling unit
limitation]	Antenna	IIVACK	NM	classification	Odd	Even	Frequency
1	2	3	4	5	(5	7
Y579 (RNAV2)							Daegu ACC
[GNSS, DME/DME,							
DME/DME/IRU]							FREQ: 122.25 MHz
▲ TENAS							134.375 MHz 120.575 MHz
373820N 1313427E							125.925 MHz
07002014 10104272		228	68.1			•	122.75 MHz ¹⁾
△ AGSUS		047					1) Common frequency
364521N 1304044E		229		UNL			Airspace Classification
		049	36.2	FL 140(1 500)			refer to ENR 3.1-1
▲ DABIK				Class A, D, G			
361743N 1301143E		<u>229</u>	28.1				
△ BULGA		048	20.1				
355609N 1294924E		_		UNL			
		228	40.2	FL 140(2 700)			
▲ BEDOM		048		Class A, D, G			
352513N 1291754E				UNL			
		228	00.4				
		047	23.1	FL 140(3 800)			
▲ BUSAN VORTAC(PSN)				Class A, D, G			
350721N 1285958E		007		UNL			
		<u>237</u> 057	10.4	8 000(3 000)			Incheon ACC
△ OMOTU		057		Class A, D, G			FREQ: 128.175 MHz
350033N 1285022E	N/A	237					128.325 MHz
		057	22.3	UNL			132.20 MHz ²⁾
▲ TOPAX				8 000(2 500)			2) Common frequency
344555N 1282952E		<u>237</u>	46.4	Class A, D, G			Airspace Classification
△ GOSBO		056	70.4				refer to ENR 3.1-1
341517N 1274734E		200					
		236 056	30.7	UNL			
▲ MAKET		000		9 000(1 500)			
335452N 1271953E		<u>236</u>	47.0	Class A, D, G			Incheon ACC
△ ATINA		056	17.3	J. J			FREQ: 124.525 MHz
334320N 1270423E							132.425 MHz
30-102014 1270-1201		236	30.3	UNL			132.20 MHz ³⁾
▲ JEJU VORTAC(CJU)		055		9 000(8 700)			3) Common frequency
332305N 1263727E		169		1			Airspace Classification
		349	24.0	Class A, D, G			refer to ENR 3.1-1 * The cruising levels
△ TOSAN				LINU			from CJU to RUGMA
330012N 1264619E		169	24.5	UNL			are even levels
▲ RUGMA(FIR BDRY)		349	31.5	9 000(1 500)	 		due to operational reasons.
323012N 1265753E				Class A, D, G			* The cruising levels
323012N 1203/33E							from RUGMA to CJU are odd levels
INCHEON FIR		1		1	1	1	due to operational
FUKUOKA FIR							reasons.

^{1.} Critical DME: PSN<PSN/OMOTU>, CJU<PSN/OMOTU>, PSN<OMOTU/TOPAX>, CJU<POMOTU/TOPAX>, PSN<TOPAX/GOSBO>, CJU<TOPAX/GOSBO>, PSN<GOSBO/MAKET>, CJU<GOSBO/MAKET>, PSN<MAKET/ATINA>, CJU<MAKET/ATINA>,

^{2.} DME GAP: ATINA/CJU, CJU/TOSAN, TOSAN/RUGMA GNSS or DME/DME/IRU required.

^{3.} 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.

				Upper limits			
Route designator (Navigation specification)	Waypoint IDENT of			Lower limits (MOCA)		ion of	
Name of significant points Coordinates [Navigation Specification limitation]	VOR/DME BRG & DIST ELEV DME Antenna	MAG TRACK	Geodetic DIST NM 4	ft AMSL or FL Airspace classification 5	Odd	<u>Even</u>	Remarks Controlling unit Frequency
Y644 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]	_		·				Daegu ACC FREQ: 128.70 MHz 132.80 MHz
SANGHAI FIR							122.75 MHz ¹⁾
INCHEON FIR				I			1) Common frequency
▲ AGAVO(FIR BDRY) 371010N 1235953E		<u>096</u> 276	11.8		\		Eastbound (AGAVO-EGOBA)
△ RILRO 371033N 1241442E		096 276	8.1				FL 410, FL 390, FL 370, FL 350, FL 330, FL 310, FL 290, FL 270, FL 250,
▲ GONAV 371048N 1242453E		096	20.0	UNL FL 150(1 500)			FL 230. REF.
△ BODOL 371122N 1244954E		277 097	31.4	Class A, D, G			ENR 3.1-10 for the detailed altitude conversion
△ REBIT 371203N 1252913E		097					procedures.
△ BELTU		278	15.0				Airspace Classification refer to ENR 3.1-1
371218N 1254759E	N/A	<u>098</u> 278	32.1	UNL 8 000(2 400)			
△ BOGAN		210		Class A, D, G			
371241N 1262812E		<u>098</u> 278	17.6	UNL 8 000(3 200)			
△ MONSI		270		Class A, D, G			
371247N 1265015E		<u>098</u> 278	7.5	UNL 8 000(2 400)			
▲ POLEG		218		Class A, D, G			
371249N 1265935E		<u>057</u> 237	24.7	UNL FL 140(3 300)			
△ EGOBA 372915N 1272246E		201		Class A, D, G			

^{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.

					Unnor limita	I		I
	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	cruising Odd	ion of levels	Remarks Controlling unit Frequency 7
	Y655 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]							Daegu ACC FREQ: 132.80 MHz 128.70 MHz
	GONAV 371048N 1242453E		188 008	12.2		\		122.75 MHz ¹⁾ 1) Common frequency Airspace Classification
	DALPO 365835N 1242453E		188	17.8				refer to ENR 3.1-1
	NONOS 364046N 1242453E		800	17.0				Incheon ACC
Δ	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
Δ	353036N 1242453E PALSA	N/A	<u>188</u> 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
	340131N 1242453E TOLIS		<u>187</u> 007	11.0				Incheon ACC FREQ: 124.525 MHz 132.425 MHz
	335030N 1242453E		<u>111</u> 291	73.0	UNL 9 000(1 500)			132.20 MHz ⁴⁾ 4) Common frequency
	LIMDI 333313N 1254953E		111 292	29.0	Class A, D, G <u>UNL</u> 9 000(4 100)			Airspace Classification refer to ENR 3.1-1
	REMOS 332605N 1262329E		112	12.1	Class A, D, G <u>UNL</u> 9 000(8 700)			
•	JEJU VORTAC(CJU)		292	1	Class A, D, G		1	
	332305N 1263727E cal DME : SEL <gonav :="" <="" dalpo:="" danpa="" e="" gap="" kuz<nonos="" pals="" palsa,="" td=""><td>>, KWA<limd< td=""><td>I/REMOS>, C</td><td>JU<limdi f<="" td=""><td>REMOS></td><td></td><td>•</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></td><td>•</td><td> EL<nonos danpa="">,</nonos></td></limdi></td></limd<>	I/REMOS>, C	JU <limdi f<="" td=""><td>REMOS></td><td></td><td>•</td><td> EL<nonos danpa="">,</nonos></td></limdi>	REMOS>		•	 EL <nonos danpa="">,</nonos>
	Y657 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]							Incheon ACC FREQ: 123.725MHz 124.50 MHz 132.20 MHz ⁵⁾
	GWANGJU VOR(KWA) 350734N 1264844E IGDOK		<u>072</u> 253	54.7	10 000 8 000(7 100)	\		5) Common frequency Airspace Classification refer to ENR 3.1-1
A	353104N 1274907E DALSEONG VORTAC(TGU) 354835N 1283527E	N/A	<u>073</u> 254	41.6	Class D 10 000 8 000(4 800) Class D		<u></u>	Daegu ACC FREQ :125.375 MHz 125.775 MHz 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.

Route designator (Navigation specification) Name of significant points Coordinates [Navigation Specification limitation] 1 Y659 (RNAV2) [GNSS, DME/DME,	Waypoint IDENT of VOR/DME BRG & DIST ELEV DME Antenna	MAG TRACK 3	Geodetic DIST NM 4	Upper limits Lower limits (MOCA) ft AMSL or FL Airspace classification	cruisino Odd	ion of levels Even	Remarks Controlling unit Frequency 7 Incheon ACC
DME/DME/IRU] ▲ GUNSAN VORTAC(KUZ)							FREQ : 126.175 MHz 134.375 MHz 132.20 MHz ¹⁾
355437N 1263641E △ ELPOS		<u>101</u> 281	8.5	10 000 7 000(1 700)	\		Common frequency Airspace Classification
355410N 1264707E △ RINBO		<u>101</u> 281	5.5	Class D			refer to ENR 3.1-1
355352N 1265349E		101 282	17.8	10 000 7 000(3 700)			
△ MELES 355251N 1271542E		102	17.2	Class D 10 000 7 000(5 000)			
▲ OPEDA 355149N 1273652E	N/A	282		Class D 10 000			Daegu ACC
▲ DALSEONG VORTAC(TGU) 354835N 1283527E	_	282	47.7	7 000(6 600) 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⁾
355413N 1290452E		<u>085</u> 265	19.7	UNL 6 000(3 300)		^	2) Common frequency Airspace Classification
▲ POHANG VORTAC(KPO) 355838N 1292828E				Class A, D, G		1	refer to ENR 3.1-1
Y677 (PNA)(2)							Incheon ACC
(RNAV2) [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)	\		Airspace Classification refer to ENR 3.1-1
332815N 1271953E	N/A	089	49.8	Class A, D, G UNL 9 000(1 500)			Incheon ACC
▲ SAMDO(FIR BDRY) 333503N 1281857E		270		Class A, D, G		<u> </u>	FREQ: 128.175 MHz 128.325 MHz 132.20 MHz ⁴⁾
INCHEON FIR							4) Common frequency Airspace Classification
FUKUOKA FIR 1. Critical DME: PSN <cju tamna="">.</cju>		ANIAN DON'S	T A B 4B 1 A 40 A B 4	IDOS OULSTAN	NIA (CARAD	105	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.

1					Upper limits			
	Route designator rigation specification)	Waypoint IDENT of			Lower limits		ion of levels	
Name	e of significant points Coordinates	VOR/DME BRG & DIST	MAG	Geodetic	(MOCA) ft AMSL or FL			Remarks
[Nav	rigation Specification	ELEV DME	TRACK	DIST	Airspace	044	_	Controlling unit
	limitation]	Antenna 2	3	NM 4	classification 5	Odd	Even	Frequency 7
	Y685 (RNAV2)							Daegu ACC
	[GNSS, DME/DME,							FREQ: 132.80 MHz
	DME/DME/IRU]							128.70 MHz
•	ANYANG VORTAC(SEL)							118.925 MHz 120.525 MHz
	372449N 1265542E				LINII	\		122.75 MHz ¹⁾ 1) Common frequency
	372449N 1203342E		133 313	10.7	UNL 9,000(3,200)			Only flying westbound
	1241 144		313	10.7	8 000(3 200) Class A, D, G			from KPO to SEL on Y685 is authorized
	KALMA 371845N 1270645E	-			UNL			except ACFT departing from RKTY or RKTI.
	07104011 12700402		133	19.3	8 000(2 900)			Aircraft flying eastbound
Δ	KAKSO		313	10.0	Class A, D, G			from SEL to KPO at or
	370745N 1272637E				- , -, -			above 11 000 ft on Y685 shall get PPR 24
					UNL			hours before from Incheon/Daegu ACC.
			<u>133</u> 313	11.5	8 000(3 600)			No PPR is needed a or below 10 000 ft.
			313		Class A, D, G			
Δ	GUKDO							Airspace Classification
	370111N 1273823E	-			UNL			refer to ENR 3.1-1
			133 314	9.2	8 000(3 700)			Daegu ACC
Δ	ENSAL		014		Class A, D, G			FREQ: 120.575 MHz 119.375 MHz
	365554N 1274747E		124		UNL			134.375 MHz
_	DACEM		134 314	9.2	8 000(4 000)			122.75 MHz ²⁾ 2) Common frequency
	BASEM	N/A			Class A, D, G UNL			Only flying westbound
	365037N 1275710E		134 314	12.5	8 000(5 000)			from KPO to SEL on Y685 is authorized
•	BIGOB		314	12.0	Class A, D, G			except ACFT departing from RKTY or RKTI.
	364325N 1280952E				UNL			Aircraft flying eastbound
			134 314	9.5	8 000(4 900)			from SEL to KPO at or above 11 000 ft on
Δ	YECHEON VOR(CUN)		<u> </u>		Class A, D, G			Y685 shall get PPR 24 hours before from
	363755N 1281931E		122		UNL			Incheon/Daegu ACC.
Δ	ELAPI		133 314	30.8	8 000(3 800)			No PPR is needed a or below 10 000 ft.
	362014N 1285051E				Class A, D, G			
	002014N 120001E		134 314	37.3	UNL 8 000(4 700)			Airspace Classification refer to ENR 3.1-1
•	POHANG VORTAC(KPO)		314	07.0	Class A, D, G			
	355838N 1292828E				UNL			
			107 287	17.2	8 000(2 100)			
Δ	BULGA				Class A, D, G			
	355609N 1294924E		107		UNL			
	SADDA/EID DDDV\		287	44.4	8 000(1 500)		<u> </u>	
•	SAPRA(FIR BDRY) 354926N 1304325E				Class A, D, G			-
	INCHEON FIR FUKUOKA FIR							-

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

					Upper limits			
(Na Nan	Route designator avigation specification) ne of significant points Coordinates	Waypoint IDENT of VOR/DME BRG & DIST	MAG	Geodetic	Lower limits (MOCA) ft AMSL or FL		tion of g levels	Remarks
[Na	avigation Specification	ELEV DME Antenna	TRACK	DIST NM 4	Airspace classification 5	Odd	Even	Controlling unit Frequency 7
	Y697 (RNAV2) [GNSS, DME/DME,	_	J	·				Daegu ACC FREQ: 128.70 MHz
	DME/DME/IRU] SANGHAI FIR							132.80 MHz 122.75 MHz ¹⁾
	INCHEON FIR							1) Common frequency
A	AGAVO(FIR BDRY)							Westbound(SEL-AGAVO)
Δ	371010N 1235953E OLBIM		<u>066</u> 246	7.5				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	LINI			FL 220, FL 200. REF. ENR 3.1-9 for the detailed Altitude
	372250N 1242505E ANSIM		<u>097</u> 277	20.0	UNL FL 150(1 500) Class A, D, G			conversion procedures. Only flying westbound
	372323N 1245009E BINIL		<u>097</u> 277	19.0				from SEL to AGAVO on Y697 is authorized.
	372349N 1251359E NOPIK		<u>097</u> 277	20.0	_			
	372412N 1253905E		<u>097</u> 278	41.0	UNL 8 000(2 100)			
	GOGET		210		Class A, D, G			
•	372442N 1263036E ANYANG VORTAC(SEL)		<u>098</u> 278	20.0	UNL 7.500(2.400)		1	
	372449N 1265542E		<u>087</u> 267	22.0	7 500(3 400) Class A, D, G	\		Daegu ACC
	EGOBA 372915N 1272246E	N/A	087 267	13.9	UNL 7 500(5 100)			FREQ: 132.80 MHz 118.925 MHz 122.75 MHz ²⁾ 2) Common frequency
\triangle	KARBU		201		Class A, D, G			Airspace Classification refer to ENR 3.1-1
	373159N 1273952E		<u>087</u> 268	22.9	UNL 7 500(4 500)			Daegu ACC
	TORUS 373625N 1280807E	_	088		Class A, D, G			FREQ: 134.175 MHz 123.65 MHz 122.75 MHz ³⁾
Δ	BIKSI		268	21.8	7 500(7 500) Class A, D, G			3) Common frequency Airspace Classification
•	374032N 1283504E GANGWON VORTAC(KAE)		<u>088</u> 268	8.2	UNL 7 500(7 100) Class A. D. G			refer to ENR 3.1-1
	374203N 1284514E		<u>130</u>	30.0	UNL 8 000(7 100)			Daegu ACC
•	PILIT		310	30.0	Class A, D, G			FREQ: 134.175 MHz
\triangle	372631N 1291731E NIMUS		<u>130</u> 310	27.5	11811			123.65 MHz 122.75 MHz ⁴⁾ 4) Common frequency
	371210N 1294656E AGSUS		<u>130</u> 310	50.8	UNL 9 000(1 500) Class A, D, G			Only flying westbound from LANAT to KAE
•	364521N 1304044E LANAT(FIR BDRY)		<u>130</u> 311	42.9	, Jass A, D, G		<u></u>	on G597 shall get 24HRs PPR from Daegu ACC.
	362224N 1312542E INCHEON FIR FUKUOKA FIR							Airspace Classification refer to ENR 3.1-1
1 Critic	FUKUUKA FIR cal_DME : SEL <agavo ol<="" td=""><td>PIMS KUZZACA</td><td>WOOLDIMS</td><td>SEL-OLBI</td><td>M/NOGONS KUZ</td><td>COL BIM/</td><td>NOCONS</td><td>SEL < NOCON/ANGIMS</td></agavo>	PIMS KUZZACA	WOOLDIMS	SEL-OLBI	M/NOGONS KUZ	COL BIM/	NOCONS	SEL < NOCON/ANGIMS

^{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>

Change : Page control.

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

				_		1		
_					Upper limits		tion of	
(Navig Name	oute designator pation specification) of significant points Coordinates pation Specification limitation]	Waypoint IDENT of VOR/DME BRG & DIST ELEV DME Antenna	MAG TRACK	Geodetic DIST NM 4	Lower limits (MOCA) ft AMSL or FLAirspace classification 5	Odd	e levels Even	Remarks Controlling unit Frequency
1	Y711							Daegu ACC
Δ	(RNAV2) [GNSS, DME/DME, DME/DME/IRU] MONSI 371247N 1265015E							FREQ: 132.80 MHz 128.70 MHz 122.75 MHz ¹⁾
			<u>190</u> 010	29.4	UNL FL 140(2 900)		*	Airspace Classification refer to ENR 3.1-1
	BULTI 364322N 1264930E		<u>187</u> 007	10.0	Class A, D, G			Incheon ACC FREQ: 132.150 MHz
	MEKIL 363322N 1264953E		187 006	10.2	UNL			123.55 MHz 132.20 MHz ²⁾ 2) Common frequency
	GONAX 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
	360905N 1264844E		<u>193</u> 013	14.9	UNL FL 140(2 200)			
	ELPOS 355410N 1264707E		<u>193</u>	24.0	Class A, D, G <u>UNL</u> FL 140(2 800)			
	MANGI 353011N 1264432E		193		Class A, D, G UNL			Incheon ACC
	DALSU 350731N 1264206E		013	22.7	FL 140(3 800) Class A, D, G UNL			FREQ: 120.725 MHz 128.30 MHz 132.20 MHz ³⁾ 3) Common frequency
	DOTOL 341515N 1263637E	N/A	1 <u>93</u> 013	52.4	FL 140(4 000) Class A, D, G UNL			Airspace Classification refer to ENR 3.1-1
	KIDOS		<u>193</u> 012	24.8	FL 140(2 700) Class A, D, G			Incheon ACC FREQ: 124.525 MHz
	335028N 1263402E REMOS		<u>207</u> 027	25.9	UNL FL 140(6 000)			132.425 MHz 132.20 MHz ⁴⁾ 4) Common frequency
	332605N 1262329E PANSI		<u>207</u> 027	27.4	Class A, D, G <u>UNL</u> FL 140(6 300)			Airspace Classification refer to ENR 3.1-1
	330014N 1261225E DOMKO		<u>207</u> 027	33.4	Class A, D, G			
	322848N 1255859E PONIK		<u>207</u> 027	30.1				Incheon ACC
	320021N 1254659E IKEDO		<u>207</u> 027	18.2	UNL			FREQ: (At or above FL 335 133.425 MHz 134.15 MHz
	314314N 1253948E KANKA		<u>207</u> 026	12.0	FL 140(1 500) Class A, D, G			132.20 MHz ⁵⁾ (below FL 335) 125.725 MHz 132.825 MHz
	313155N 1253504E BONSO		<u>207</u> 026	67.0				132.025 MHz 128.375 MHz 132.20 MHz ⁵⁾ 5) Common frequency
	302840N 1250851E		206	30.2				Airspace Classification refer to ENR 3.1-1
	MUGUS(FIR BDRY) 300006N 1245712E		026	30.2				
	INCHEON FIR FUKUOKA FIR							-

FUKUOKA FIR

1. Critical DME: KWA<DOTOL/KIDOS>, CJU<DOTOL/KIDOS>
2. 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.

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	Davida dariment	\\/			Upper limits		ion of	
(Na	Route designator vigation specification)	Waypoint IDENT of			Lower limits	cruising	levels	
Nam	e of significant points	VOR/DME			(MOCA) ft AMSL or FL			
ſΝa	Coordinates vigation Specification	BRG & DIST ELEV DME	MAG TRACK	Geodetic DIST	Airspace			Remarks Controlling unit
[limitation]	Antenna	0	NM	classification	Odd	Even	Frequency
	Y722	2	3	4	5		/	10
	(RNAV2)							Incheon ACC
	[GNSS, DME/DME,							FREQ: 126.175 MHz
	DME/DME/IRU]							134.375 MHz
•	SONGTAN VORTAC(SOT)							132.20 MHz ¹⁾
	370540N 1270154E		404		UNL			1) Common frequency
	OLMEN		<u>194</u> 014	21.5	FL 140(3 100)			Airspace Classification
			011		Class A, D, G			refer to ENR 3.1-1
	364413N 1265928E		<u>187</u>	10.0	UNL			
\triangle	GUNKU		007	10.0	FL 140(3 600) Class A, D, G			
	363414N 1265949E				UNL			
			<u>187</u> 007	11.0	FL 140(3 300)			
	PEBRI		007		Class A, D, G			
	362311N 1270013E		193	05 -	UNL			
	ATASO		013	29.5	FL 140(2 300)			
	355344N 1265657E				Class A, D, G UNL			
	0000441 4 12000012		<u>193</u>	23.6	FL 140(3 800)			
	MAKSA		013		Class A, D, G			
	353011N 1265422E		193		UNL			Incheon ACC
	0.1.1111		013	22.7	FL 140(4 000)			FREQ: 123.725 MHz
	SAMUL				Class A, D, G			124.50 MHz
	350736N 1265154E		193		UNL			132.20 MHz ²⁾ 2) Common frequency
	KAMIT		013	52.5	FL 140(3 400)			Airspace Classification
	TO WITT				Class A, D, G			refer to ENR 3.1-1
	341514N 1264618E		193		UNL			Incheon ACC
^	CLIKCH	N/A	013	22.4	FL 140(2 100)			
	GUKSU 335251N 1264357E				Class A, D, G UNL			FREQ: 124.525 MHz
	333231N 1204337L		<u>193</u>	19.6	FL 140(1 700)			132.425 MHz 132.20 MHz ³⁾
\triangle	LOSNI		012		Class A, D, G			3) Common frequency
	333315N 1264153E		207		UNL			
	IE III VODTAGO III)		<u>207</u> 027	10.8	FL 140(7 600)			Airspace Classification refer to ENR 3.1-1
_	JEJU VORTAC(CJU)		<u> </u>		Class A, D, G			Telef to ENR 3.1-1
	332305N 1263727E		<u>207</u>	24.3	UNL FL 140(8 700)			
Δ	SOSDO		027	24.5	Class A, D, G			
	330012N 1262735E		207	05 -	Graces Pr, D, O			
Δ	SAMLO		027	29.5				
	323223N 1261536E		207		1			Incheon ACC
			<u>207</u> 027	30.2				FREQ: (At or above FL 335
	NIRAT 320354N 1260329E							133.425 MHz
	320334N 1200329E		<u>207</u>	18.1	UNL FL 140(1 500)			134.15 MHz 132.20 MHz ⁴⁾
Δ	ELGEP		027	.5.1	FL 140(1 500) Class A. D. G			(below FL 335)
	314653N 1255617E		<u>207</u>	12.1	JUASS A, D, G			125.725 MHz 132.825 MHz
Δ	TESIM		027	12.1]			128.375 MHz
	313526N 1255128E		207					132.20 MHz ⁴⁾ 4) Common frequency
			<u>207</u> 026	100.9				Airspace Classification
•	ATOTI(FIR BDRY)					1		refer to ENR 3.1-1
	300013N 1251154E							
	INCHEON FIR SANGHAI FIR							
1. Critic	al DME : KWA <kamit <="" td=""><td>L GUKSU>. CJU<</td><td>KAMIT/GUŁ</td><td>(SU></td><td></td><td></td><td></td><td></td></kamit>	L GUKSU>. CJU<	KAMIT/GUŁ	(SU>				

Critical DME: KWA<KAMIT/GUKSU>, CJU<KAMIT/GUKSU>
 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.

					Unnor limite	T		
		Waypoint			Upper limits		tion of sing	
	Pouto designator	IDENT of VOR/DME			Lower limits	lev	els	
1 (Route designator (Navigation specification)	BRG &			(MOCA) ft AMSL or FL			
N	lame of significant points	DIST	MAG	Geodetic				Remarks
[Novi	Coordinates	ELEV DME	TRACK	DIST NM	Airspace	044	Even	Controlling unit
Inavi	gation Specification limitation]	Antenna 2	3	4	classification 5		⊥⊑ven 6	Frequency 7
	Y744	2	<u> </u>	4	3	<u> </u>	1	1
	(RNAV2)							Daegu ACC
	[GNSS, DME/DME,							FREQ: 134.175 MHz
	DME/DME/IRU]							120.575 MHz
	-							123.65 MHz
•	PILIT							119.375 MHz
	372631N 1291731E				UNL		1	122.75 MHz ¹⁾
	0.200.11 1201.012		<u>183</u>	19.3	9 000(4 900)			1) Common frequency
	NOBUT		003	10.0	Class A, D, G			4 44 000 % 4 51 040
					UNL			1. 11 000 ft to FL 240,
	370715N 1291957E		<u>183</u>	47.2	9 000(5 600)			at or above FL 280 will be blocked.
	1.027.0		003	47.2	, ,			will be blocked.
	LOSTO 362016N 1292548E	-			Class A, D, G UNL	1		2. At an above 11,000 ft
	302010N 1292546E	N/A	<u>183</u>	21.7	9 000(2 100)			2. At or above 11 000 ft, required 15 days PPR
	DOLLANG MODELA C(KDO)		003	21.7	` '			from Air Traffic
_	POHANG VORTAC(KPO) 355838N 1292828E	-			Class A, D, G UNL	-		Management Office.
	333636IN 1292626E		<u>213</u>	37.2	9 000(4 400)			wanagement Onice.
	APARU		033	37.2	Glass A, D, G			3. Airspace Classification
	352442N 1290932E	-			UNL	-		refer to ENR 3.1-1
	0024421 4 1230302E		<u>213</u>	19.0	9 000(4 400)			Total to Livit 0.11
	BUSAN VORTAC(PSN)		032	13.0	Class A, D, G	↑		
	350721N 1285958E				Class A, D, C			
	Y781							
	(RNAV2)							Daegu ACC
	[GNSS, DME/DME,							FREQ: 125.375 MHz
	DME/DME/IRU]							125.775 MHz
	DALSEONG VORTAC(TGU)							124.575 MHz 122.75 MHz ²⁾
_	354835N 1283527E				UNL			2) Common frequency
	354635IN 1263527E		<u>192</u>	40.0		*		2) Common frequency
	MAGTA		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	- · -		Class A, D, G			
	350730N 1284616E	IN/A	100		UNL			
			<u>162</u> 342	7.7	7 000(3 500)			
Δ	OMOTU		342		Class A, D, G			
	350033N 1285022E				UNL	1		
			<u>156</u>	27.3	7 000(2 800)			
•	BESNA(FIR BDRY)		336		Class A, D, G			
	343718N 1290751E				5,000 A, D, O			
	3.37 1014 1200701E							
	INCHEON FIR			ı	1			
	FUKUOKA FIR							
1 Cri	tical DME: PSN <omotu be<="" td=""><td>SNA> CILI<</td><td>OMOTU/BES</td><td>SNA></td><td>·</td><td></td><td>_</td><td></td></omotu>	SNA> CILI<	OMOTU/BES	SNA>	·		_	

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

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

			1	11 11 11			
				Upper limits			
Route designator	Waypoint			Lower limits		ion of	
(Navigation specification)	IDENT of			(MOCA)	cruising	levels	1
Name of significant points	VOR/DME	144.0	0	ft AMSL or FL			D 1
Coordinates [Navigation Specification	BRG & DIST	MAG	Geodetic	Aironaga			Remarks
limitation]	ELEV DME Antenna	TRACK	DIST NM	Airspace classification	Odd	Even	Controlling unit Frequency
1	2	3	4	5			7
Y782	_						
(RNAV2)							Daegu ACC
GNSS, DME/DME,							
DME/DME/IRU]							FREQ: 128.70 MHz
52.52							120.525 MHz
▲ ANYANG VORTAC(SEL)							122.75 MHz ¹⁾
372449N 1265542E				UNL			122./5 IVIHZ"
372449N 1200042E		174	40.4		*		1) Common frequency
		354	12.4	4 500(3 000)			Airspace Classification
▲ POLEG				Class A, D, G			refer to ENR 3.1-1
371249N 1265935E		17/		UNL			10.01 to EIVIX 0.1-1
		<u>174</u> 354	7.4	4 500(2 000)			
▲ SONGTAN VORTAC(SOT)		334		Class A, D, G			
370540N 1270154E							
0.00.00.		<u>144</u>	21.6	1.18.11			
△ OSPOT		324		UNL			
365018N 1272055E				8 000(3 300)			
00001014 12720002		<u>144</u>	10.4	Class A, D, G			
△ VASLI		324	10.4				Daegu ACC
364252N 1273003E					l I		FREQ: 125.375 MHz
304252N 1273003E		<u>144</u>	21.9				125.775 MHz
△ MAKDU		324	21.9	UNL			
_	N/A			8 000(4 200)			124.575 MHz
362712N 1274909E		144	440	Class A, D, G			122.75 MHz ²⁾
A DITLIY		324	14.6	3.460 7 , 5, 0			2) Common frequency
△ BITUX				LINU			, ,
361645N 1280148E		144		UNL			Airspace Classification
		324	39.2	10 000(4 500)			refer to ENR 3.1-1
▲ DALSEONG VORTAC(TGU)				Class A, D, G			
354835N 1283527E		400		UNL			
		<u>162</u>	20.4	8 000(4 400)			
△ KALOD		342		Class A, D, G			
353012N 1284626E				UNL			
00001214 12040202		<u>162</u>	25.4	5 000(3 600)			
		342	25.4	, ,			
▲ BUSAN VORTAC(PSN)				Class A, D, G			
350721N 1285958E		162		UNL			
		342	26.6	4 000(3 000)		1	
▲ APELA(FIR BDRY)		07Z		Class A, D, G		'	
344323N 1291400E							
INCHEON FIR				•			
FUKUOKA FIR							
	1						ı

 $^{^{\}star}$ 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>

Nar	Route designator avigation specification) me of significant points Coordinates	Waypoint IDENT of VOR/DME BRG & DIST	MAC TDACK	Geodetic	Upper limits Lower limits (MOCA) ft AMSL or FL		ion of g levels	Remarks
[N	avigation Specification limitation]	ELEV DME Antenna	MAG TRACK	DIST NM	Airspace classification	Odd	Even	Controlling unit Frequency
	1	2	3	4	5	(3	7
	Z50 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]							Daegu ACC FREQ: 128.70 MHz 134.175 MHz 122.75 MHz ¹⁾
	EGOBA 372915N 1272246E		224 044	28.8	UNL FL 140(3 300)		1	1) Common frequency Airspace Classification
•	SONGTAN VORTAQ(SOT) 370540N 1270154E	N/A	213 032	24.4	Class A, D, G UNL FL 140(2 900)			refer to ENR 3.1-1
	BULTI 364322N 1264930E				Class A, D, G	<u> </u>		
	Z51 (RNAV2) [GNSS, DME/DME, DME/DME/IRU] BOPTA							Incheon ACC FREQ: 132.15 MHz 123.55 MHz
	364406N 1263658E MOXID	N/A	173 353	21.6	UNL FL 150(3 900) Class A, D, G		\	132.20 MHz ²) 2) Common frequency
Δ	362311N 1264359E BEDES 360905N 1264844E		173 353	14.6	UNL FL 150(3 600) Class A, D, G			Airspace Classification refer to ENR 3.1-1
	12040442							
	Z52 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]							Incheon ACC
	OLMEN 364413N 1265928E		051 231	16.4	UNL 8 000(3 400)	1		134.375 MHz 132.20 MHz ³⁾
	POSAN 365615N 1271316E	N/A	<u>051</u>	15.7	Class A, D, G UNL 8 000(3 000)			3) Common frequency Airspace Classification refer to ENR 3.1-1
	KAKSO 370745N 1272637E		232		Class A, D, G		<u> </u>	
	Z53 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]							Daegu ACC FREQ: 125.375 MHz
	BITUX 361645N 1280148E		002	17.0	UNL FL 160(4 000)		\	120.575 MHz 125.775 MHz 119.375 MHz 122.75 MHz ⁴⁾
	TEBEX 363341N 1275929E	N/A	182 002		Class A, D, G			4) Common frequency
Δ	BASEM 365037N 1275710E		182	17.0	FL 160(4 600) Class A, D, G	<u> </u>		Airspace Classification refer to ENR 3.1-1
		1		1	<u> </u>			<u> </u>

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

Change : Page control.

					Upper limits			
٨	Route designator (Navigation specification) Name of significant points Coordinates gation Specification limitation]	Waypoint IDENT of VOR/DME BRG & DIST ELEV DME Antenna	MAG TRACK	Geodetic DIST NM	Lower limits (MOCA) ft AMSL or FL Airspace classification	Direction cruising Odd	levels Even	Remarks Controlling unit Frequency
	1 754	2	3	4	5	6		7
	Z54 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]							Daegu ACC FREQ: 128.70 MHz 132.80 MHz 120.525 MHz
•	SONGTAN VORTAC(SOT) 370540N 1270154E		316 136	11.7	UNL 8 000(2 400) Class A, D, G		\	122.75 MHz ¹⁾ 1) Common frequency
\triangle	MONSI 371247N 1265015E	N/A	316 136	19.7	UNL 8 000(2 300)	-		Airspace Classification refer to ENR 3.1-1
\triangle	GOGET		130		Class A, D, G	↑		
	372442N 1263036E							
	Z55 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]							Daegu ACC FREQ: 128.70 MHz
	SANGHAI FIR							132.80 MHz
	INCHEON FIR							122.75 MHz ²⁾
Δ	AGAVO(FIR BDRY) 371010N 1235953E		454		UNL			2) Common frequency
\triangle	NONOS	N/A	1 <u>54</u> 334	35.5	FL 140(1 500) Class A, D, G		1	Airspace Classification refer to ENR 3.1-1
<u> </u>	364046N 1242453E							
Crit	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>					
	Z56 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]							Daegu ACC FREQ: 122.25 MHz
	PYONGYANG FIR							125.925 MHz 122.75 MHz ³
	INCHEON FIR							122.73 1011 12
•	KANSU(FIR BDRY)							3) Common frequency
▲	383800N 1322830E PALDU		180 360	40.2		1		Airspace Classificatio
375813N 1323625E ▲ SABET	N/A	180 360	19.9	UNL FL 200(1 500) Class A. G			refer to ENR 3.1-1	
	373829N 1324019E		180 360	19.9			1	
•	IGRAS(FIR BDRY)							
•	IGRAS(FIR BDRY) 371846N 1324411E							
	,							

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

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Na	Route designator Navigation specification) Ime of significant points Coordinates Navigation Specification Iimitation]	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	Direction of cruising levels	Remarks Controlling unit Frequency
Δ	1 Z57 (RNAV2) [GNSS, DME/DME, DME/DME/IRU] RILRO 371033N 1241442E DALPO 365835N 1242453E	N/A	1 <u>54</u> 334	14.5	UNL FL 150(1 500) Class A, D, G	6	Daegu ACC FREQ: 128.70 MHz 132.80 MHz 122.75 MHz ¹⁾ 1) Common frequency Airspace Classification refer to ENR 3.1-1
1. Crit	ical DME : SEL <rilro da<="" td=""><td>ALPO>, KUZ<i< td=""><td>RILRO/DAI</td><td>_PO></td><td></td><td></td><td>I</td></i<></td></rilro>	ALPO>, KUZ <i< td=""><td>RILRO/DAI</td><td>_PO></td><td></td><td></td><td>I</td></i<>	RILRO/DAI	_PO>			I
•	(RNAV2) [GNSS, DME/DME, DME/DME/IRU] PILIT						Daegu ACC FREQ: 134.175 MHz 123.65 MHz 122.75 MHz ²
Δ	372631N 1291731E NOMEX 374112N 1294441E	N/A	<u>064</u> 245	26.1	UNL FL 250(1 500) Class A, G	1	2) Common frequency Airspace Classification
1. Crit	ical DME : KAE <pilit no<="" td=""><td>MEX>, KPO<f< td=""><td>PILIT/NOME</td><td>≣X></td><td></td><td></td><td>refer to ENR 3.1-1</td></f<></td></pilit>	MEX>, KPO <f< td=""><td>PILIT/NOME</td><td>≣X></td><td></td><td></td><td>refer to ENR 3.1-1</td></f<>	PILIT/NOME	≣X>			refer to ENR 3.1-1
Δ	Z81 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]						Incheon ACC FREQ: 124.525 MHz 132.425 MHz 132.20 MHz ³⁾ 3) Common frequency
•	335028N 1263402E JEJU VORTAC(CJU) 332305N 1263727E	N/A	<u>182</u> 001	27.5	UNL FL 140(8 700) Class A, D, G	<u> </u>	Airspace Classification refer to ENR 3.1-1
	Z82 (RNAV2) [GNSS, DME/DME/IRU] JEJU VORTAC(CJU)						Incheon ACC FREQ: 124.525 MHz 132.425 MHz 132.20 MHz ⁴⁾
Δ	332305N 1263727E PANSI 330014N 1261225E	N/A	230 050	31.0	UNL FL 140(8 700) Class A, D, G	1	4) Common frequency Airspace Classification refer to ENR 3.1-1
1 DM	E GAP : CJU/PANSI, GNS	SS or DME/DN	ME/IRU red	quired		i I	ı

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

	Waypoint			Upper limits		tion of	
Route designator (Navigation specification) Name of significant points Coordinates (Navigation Specification limitation	IDENT of VOR/DME BRG & DIST ELEV DME	MAG TRACK	Geodetic DIST NM	Lower limits (MOCA) ft AMSL or FL Airspace classification	<u>cruising</u>	g levels Even	Remarks Controlling unit Frequency
1 Z83	2	3	4	5		6	7
(RNAV2)							
[GNSS, DME/DME, DME/DME/IRU]	n						Daegu ACC
▲ DALSEONG VORTAC(TGL 354835N 1283527E	J)			UNL		\	FREQ: 125.375 MHz
00100011 12000212		<u>192</u> 012	19.8	5 000(4 900)			125.775 MHz
\triangle MASTA		012		Class A, D, G			124.575 MHz 122.75 MHz
352847N 1283340E		192		UNL			122.73 1011 12
A CADAM	N/A	012	21.2	5 000(3 800)			1) Common frequenc
△ SARAM 350736N 1283147E				Class A, D, G			A: 01 '5 '
330730N 1203147E		<u>192</u>	21.7	UNL 5 000(3 000)			Airspace Classification refer to ENR 3.1-1
▲ TOPAX		012	21.7	Class A, D, G	↑		reier to ENR 3.1-1
344555N 1282952E				_ , , _			
Z84 (RNAV2) IGNSS. DME/DME.							Daegu ACC
[GNSS, DME/DME,							Daegu ACC FREQ: 125.375 MHz
DME/DME/IRU]							125.775 MHz
△ BUSAN VORTAC(PSN) 350721N 1285958E				UNL			124.575 MHz 122.75 MHz ²⁾
330721N 1203930L	N/A	<u>091</u>	43.8	8 000(3 100)	↓		2) Common frequency
▲ KALEK(FIR BDRY)	1 1// 1	272	10.0	Class A, D, G		1	
351232N 1295305E				0.000 / 1, 2, 0			Airspace Classification
INCHEON FIR							refer to ENR 3.1-1
FUKUOKA FIR							
Z85							
(RNAV2)							Incheon ACC
[GNSS, DME/DME/IRU]							FREQ : 124.525 MHz
DME/DME/IKOJ							128.175 MHz 132.20 MHz ³⁾
△ ATINA				UNL	 		3) Common frequency
△ ATINA 334320N 1270423E	NI/A	<u>192</u>	72.2	FL 170(1.500)			o, common noquency
	N/A	<u>192</u> 011	73.2	FL 170(1 500)		↑	o, common moquency
334320N 1270423E	N/A		73.2	FL 170(1 500) Class A, D, G		<u> </u>	Airspace Classification
334320N 1270423E ▲ RUGMA(FIR BDRY)	N/A		73.2	, ,		<u> </u>	Airspace Classification refer to ENR 3.1-1

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

				Upper limits			
Route designator (Navigation specification)	Waypoint IDENT of VOR/DME			Lower limits (MOCA) ft AMSL or FL	Direct cruising	ion of levels	
Name of significant points Coordinates	BRG & DIST	MAG	Geodetic	ft AMSL of FL			Remarks
[Navigation Specification	ELEV DME	TRACK	DIST	Airspace			Controlling unit
limitation]	Antenna	0	NM	classification	Odd	Even	Frequency
1 Z86	2	3	4	5		/	10
(RNAV2)							Incheon ACC
[GNSS,							EDEO: 404 505 MILE
DME/DME/IRU]							FREQ: 124.525 MHz 132.20 MHz ¹⁾
52/52/11101							132.20 MHZ
△ BONSO							1) Common frequency
302840N 1250851E				UNL			1) Common nequency
3323.3.1 .2300012	NI/A	181	20.5			· ·	
	N/A	001	28.5	FL 140(1 500)			Airspace Classification
▲ ATOTI(FIR BDRY)				Class A, D, G			refer to ENR 3.1-1
300013N 1251154E							
INCHEON FIR							
FUKUOKA FIR							
DME GAP : BONSO/ATOTI Z91 (RNAV2)	, GNSS or DME	/DME/IRU	required.				Daegu ACC
` '							
[GNSS, DME/DME, DME/DME/IRU]							FREQ: 125.375 MHz
PINEIDINEIROJ							125.775 MHz
▲ BUSAN VORTAC(PSN)							124.575 MHz
, ,				LINII	1		122.75 MHz ²⁾
350721N 1285958E		1/10		UNL	↓		2) Common frequency
	N/A	149 329	25.6	10 000(3 000)			
▲ INVOK(FIR BDRY)		323		Class A, D, G		1 ↑	Airspace Classification
344719N 1291923E				, , -			refer to ENR 3.1-1
3447 IBIN 1291923E							
INCHEON FIR							
FUKUOKA FIR							

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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	Direct cruising Odd	ion of levels	Remarks Controlling unit Frequency 10
Y590 (RNAV2) [GNSS, DME/DME/IRU] FUKUOKA FIR							Incheon ACC FREQ: (At or above FL 335)
INCHEON FIR ▲ BEDAR(FIR BDRY)							133.425 MHz 134.15 MHz
315401N 1262910E		<u>263</u> 082	28.9				132.20 MHz ¹⁾ (below FL 335) 125.725 MHz 132.825 MHz
314653N 1255617E	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.

^{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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