ENR 3.3 AREA NAVIGATION ROUTES

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

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

Change: Information of frequencies.

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

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

Change: Information of controlling unit and frequencies.

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

		T					
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	Direct cruising Odd		Remarks Controlling unit
111111111111111111111111111111111111111	Antenna 2	3	4	5	Ouu		Frequency
Y437 (RNAV2) [GNSS,DME/DME, DME/DME/IRU] GANGWON VORTAC(KAE)		3	4	5	C	<u>)</u>	Daegu ACC FREQ: (at or below FL 295) 134.175(123.65) MHz 272.40(233.60) MHz
374203N 1284514E		100 280	47.2	UNL 8 000(6 400) Class A, D, G	→		FREQ: (above FL 295) 122.250(125.925) MHz 263.350(263.85) MHz Airspace Classification refer to ENR 3.1-1
374112N 1294441E	N/A	100 281	25.0	UNL 8 000(1 500)			Daegu ACC
374033N 1301610E	1471	101 281	62.2	Class A, D, G			FREQ: 122.250(125.925) MHz 263.350(263.85) MHz
373820N 1313427E		044 224	20.0	UNL			Airspace Classification refer to ENR 3.1-1
375440N 1314904E • KANSU(FIR BDRY)		044 225	53.3	FL 200(1 500) Class A, D, G		↑	
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 required.

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

Νìε	Route designator lavigation specification) me of significant points Coordinates lavigation Specification limitation	Waypoint IDENT of VOR/DME BRG & DIST ELEV DME Antenna	MAG TRACK	Geodetic DIST NM	Upper limits Lower limits (MOCA) ft AMSL or FL Airspace classification	cruising Odd	Even	Remarks Controlling unit Frequency
•	Y571 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]	2	3	4	5		<u>)</u>	Incheon ACC FREQ: 124.525(132.425) MHz 255.40(233.50,
_	330012N 1262735E		<u>048</u> 229	17.4	UNL 11 000(1 500) Class A, D, G	\		348.10) MHz Airspace Classification refer to ENR 3.1-1
Δ	331320N 1264114E		<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
_	341519N 1275835E		<u>056</u> 237	34.4	UNL 11 000(2 100) Class A, D, G			128.175(128.325) MH 335.50(275.20) MHz Airspace Classification
▲	ANROD 343758N 1282952E POVEM		<u>057</u> 237	26.6	UNL 11 000(2 800) Class A, D, G			refer to ENR 3.1-1
Δ	345523N 1285416E BUSAN VORTAC(PSN)		<u>029</u> 209	12.8	UNL 11 000(3 000) Class A, D, G			
	350721N 1285958E							

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

Na	Route designator lavigation specification) me of significant points Coordinates lavigation Specification limitation	Waypoint IDENT of VOR/DME BRG & DIST ELEV DME Antenna	MAG TRACK	Geodetic DIST NM 4	Upper limits Lower limits (MOCA) ft AMSL or FL Airspace classification 5	cruising Odd	ion of levels	Remarks Controlling unit Frequency
Δ	Y572 (RNAV2) [GNSS, DME/DME, DME/DME/IRU] BUSAN VORTAC(PSN)		J	7	J			Daegu ACC FREQ: 128.175(128.325) MHz 335.50(275.20) MHz
Δ	350721N 1285958E OLMUD		249 069	10.1	UNL 11 000(3 000) Class A, D, G		\	Airspace Classification refer to ENR 3.1-1
•	350225N 1284916E ENGOT		<u>237</u> 057	21.1	UNL 11 000(3 200) Class A, D, G			
_	344834N 1282952E POVOR		<u>237</u> 056	50.4	UNL 11 000(2 600) Class A, D, G			
_	341520N 1274400E UPGOS		<u>236</u> 056	26.8	UNL 11 000(2 000) Class A, D, G			
_	335733N 1271953E		236 056	17.0	UNL 11 000(1 500) Class A, D, G			Incheon ACC
Δ	BILUM 334613N 1270439E	N/A	236 056	10.5	UNL 11 000(1 500) Class A, D, G			124.525(132.425) MHz 255.40(233.50, 348.10) MHz
Δ	BEPKO 333910N 1265514E		230 050	21.9	UNL 11 000(5 600) Class A, D, G			Airspace Classification refer to ENR 3.1-1
Δ	JEJU VORTAC(CJU) 332305N 1263727E		<u>169</u> 349	10.2	UNL 11 000(8 700) Class A, D, G		\	* The cruising levels from CJU to RUGMA are even levels due to operational
^	OMKIM 331320N 1264114E		<u>169</u> 349	13.8	UNL 11 000(1 500) Class A, D, G			* The cruising levels from RUGMA to CJU
•	TOSAN 330012N 1264619E		<u>169</u> 349	31.5	UNL 11 000(1 500) Class A, D, G			are odd levels due to operational reasons.
A	RUGMA(FIR BDRY) 323012N 1265753E				Udss A, D, G	1		
	INCHEON FIR FUKUOKA FIR							

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

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

Route designator (Navigation specification) Name of significant points Coordinates [Navigation Specification limitation]	Waypoint IDENT of VOR/DME BRG & DIST ELEV DME Antenna	MAG TRACK	Geodetic DIST NM	Upper limits Lower limits (MOCA) ft AMSL or FL Airspace classification	cruising Odd	ion of plevels	Remarks Controlling unit Frequency
7	2	3	4	5	,	3	/
Y579 (RNAV2) [GNSS, DME/DME, DME/DME/IRU] TENAS							Daegu ACC FREQ: 122.250(125.925) MHz 263.350(263.85) MHz
373820N 1313427E		<u>228</u> 047	68.1			\	Airspace Classification refer to ENR 3.1-1
364521N 1304044E		<u>229</u> 049	36.2	UNL FL 140(1 500) Class A, D, G			
361743N 1301143E	N/A	<u>229</u> 048	28.1				Daegu ACC
355609N 1294924E		<u>228</u> 048	40.2	UNL FL 140(2 700) Class A, D, G			FREQ: 120.575(119.375, 119.325, 134.375) MHz 254.70(335.75) MHz
352513N 1291754E △ BUSAN VORTAC(PSN)		<u>228</u> 047	23.1	UNL FL 140(3 800) Class A, D, G	† ↑		Airspace Classification refer to ENR 3.1-1
350721N 1285958E							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.

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

Route designator (Navigation specification) Name of significant points	Waypoint IDENT of VOR/DME			Upper limits Lower limits (MOCA) ft AMSL or FL		ion of	
Coordinates [Navigation Specification limitation]	BRG & DIST ELEV DME Antenna	MAG TRACK	Geodetic DIST NM	Airspace classification	Odd	Even	Remarks Controlling unit Frequency
Y644 (RNAV2) [GNSS, DME/DME, DME/DME/IRU] SANGHAI FIR	2	3	4	3			Daegu ACC FREQ: (at or below FL 295) 128.70(118.925) MHz 270.50(263.60) MHz
INCHEON FIR							FREQ:(above FL 295)
▲ AGAVO(FIR BDRY) 371010N 1235953E		<u>096</u> 276	11.8		\		132.80(120.525) MHz 290.60(335.45) MHz
△ RILRO 371033N 1241442E △ GONAV		<u>096</u> 276	8.1				Eastbound (AGAVO-EGOBA)
371048N 1242453E △ BODOL		<u>096</u> 277	20.0	UNL FL 150(1 500)			FL 410, FL 390, FL 370, FL 350, FL 330, FL 310, FL 290, FL 270, FL 250,
371122N 1244954E		<u>097</u> 277	31.4	Class A, D, G			FL 230 REF.
371203N 1252913E		<u>097</u> 278	15.0				ENR 3.1-10 for the detailed altitude conversion procedures.
371218N 1254759E	N/A	<u>098</u> 278	32.1	UNL 8 000(2 400) Class A. D. G			Airspace Classification refer to ENR 3.1-1
△ BOGAN 371241N 1262812E		<u>098</u> 278	17.6	UNL 8 000(3 200)			
▲ MONSI 371247N 1265015E		<u>098</u> 278	7.5	Class A, D, G UNL 8 000(2 400)			
△ POLEG 371249N 1265935E		057	24.7	Class A, D, G UNL FL 140(3 300)			
△ EGOBA 372915N 1272246E		237	24.1	Class A, D, G			
				1	l		I

^{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>

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

19 OCT 2023

Route designator	Waypoint IDENT of VOR/DME BRG &			Upper limits Lower limits (MOCA)	Direct	tion of	
(Navigation specification) Name of significant points Coordinates [Navigation Specification limitation]	DIST ELEV DME	MAG TRACK 3	Geodetic DIST NM 4	ft AMSL or FL Airspace classification 5	Odd	Even	Remarks Controlling unit Frequency
Y655 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]							Daegu ACC FREQ: (at or below FL 295) 128.70(118.925) MHz 270.50(263.60) MHz
371048N 1242453E		188 008	12.2		↓		FREQ: (above FL 295) 132.80(120.525) MHz 290.60(335.45) MHz
△ DALPO 365835N 1242453E		188 008	17.8				Airspace Classification refer to ENR 3.1-1
NONOS 364046N 1242453E		188	70.1				
▲ DANPA 353036N 1242453E		800		UNL			Incheon ACC FREQ: (below FL 255) 126.175(134.375) MHz
▲ PALSA		188 007	88.9	FL 140(1 500) Class A, D, G			317.85(335.55) MHz FREQ: (at or above FL 255) 132.15(123.55) MHz 263.15(272.60) MHz Airspace Classification refer to ENR 3.1-1
340131N 1242453E	N/A	<u>187</u> 007	11.0				Incheon ACC FREQ: (below FL 255) 120.725(128.30) MHz 263.90(272.75) MHz FREQ: (at or above FL 255) 123.725(124.50) MHz 239.25(275.40) MHz
△ TOLIS 335030N 1242453E		177 356	99.0	UNL FL 430(1 500)			Airspace Classification refer to ENR 3.1-1 Incheon ACC FREQ: 124.525(132.425) MHz 255.40(233.50, 348.10) MHz
▲ ENSUM 321302N 1244635E		470		Class A, G FL 220			Airspace Classification refer to ENR 3.1-1
△ BONSO 302840N 1250851E		176 356 181	105.9 28.5	FL 150(1 500) Class A, D			FREQ : (below FL 335) 125.725(132.825, 128.375) MHz 232.95(233.15) MHz
▲ ATOTI(FIR BDRY) 300013N 1251154E		001	20.3			<u> </u>	FREQ: (at or above FL 335) 133.425(132.425) MHz 234.35(234.65) MHz
INCHEON FIR							Airspace Classification
FUKUOKA FIR 1. Critical DME: SEL <gonav 2.="" da="" danpa="" dme="" gap:="" kuz<nonos="" pa="" palsa,="" td="" y657<=""><td>NPA></td><td></td><td></td><td>•</td><td></td><td>•</td><td></td></gonav>	NPA>			•		•	
(RNAV2) [GNSS, DME/DME, DME/DME/IRU]							Incheon ACC FREQ: (at or below FL 255) 120.725(128.30) MHz 263.90(272.75) MHz
△ GWANGJU VOR(KWA) 350734N 1264844E		072	F4.7	10 000 8 000(7 100)	↓		FREQ: (above FL 255) 123.725(124.50) MHz 239.25(275.40) MHz
▲ IGDOK	N/A	253	54.7	Class D			Airspace Classification refer to ENR 3.1-1
353104N 1274907E △ DALSEONG VORTAC(To 354835N 1283527E	GU)	073 254	41.6	10 000 8 000(4 800) Class D		1	Daegu ACC FREQ: 125.375(125.775, 124.575) MHz 234.15(317.35, 335.50) MHz
	accuracy of + 2						Airspace Classification refer to ENR 3.1-1

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

Change: Information of Y655, controlling unit and frequencies.

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

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

Change: Information of Y677, controlling unit and frequencies.

OFFICE OF CIVIL AVIATION Effective: 1600UTC 29 NOV 2023

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

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

Change : Information of frequencies.

OFFICE OF CIVIL AVIATION

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

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Νà	Route designator avigation specification) me of significant points Coordinates	Waypoint IDENT of VOR/DME BRG & DIST	MAG	Geodetic	Upper limits Lower limits (MOCA) ft AMSL or FL		ion of levels	Remarks
[N	lavigation Specification limitation]	ELEV DME Antenna	TRACK 3	DIST NM 4	Airspace classification	Odd	Even	Controlling unit Frequency 7
	Y697 (RNAV2)	-		7				Daegu ACC
	[GNSS, DME/DME, DME/DME/IRU]							FREQ: (at or below FL 295)
	SANGHAI FIR							128.70(118.925) MHz 270.50(263.60) MHz
	INCHEON FIR							` ′
•	AGAVO(FIR BDRY)							FREQ : (above FL 295) 132.80(120.525) MHz
•	371010N 1235953E OLBIM		<u>066</u> 246	7.5				290.60(335.45) MHz
Δ	371411N 1240751E NOGON		<u>066</u> 246	16.2				Westbound(SEL-AGAVO) FL 400, FL 380, FL 360, FL 340, FL 320, FL 300, FL 280, FL 260, FL 240,
	372250N 1242505E		<u>097</u>	20.0	UNL FL 150(1 500)			FL 220, FL 200
\triangle	ANSIM 372323N 1245009E		277	40.0	Class A, D, G			REF. ENR 3.1-9 for the detailed altitude conversion procedures.
•	BINIL 372349N 1251359E		277	19.0	_			Only flying westbound from SEL to AGAVO on
•	NOPIK		<u>097</u> 277	20.0	UNL			Y697 is authorized.
\triangle	372412N 1253905E GOGET		<u>097</u> 278	41.0	8 000(2 100) Class A, D, G			
Δ	372442N 1263036E ANYANG VORTAC(SEL)		<u>098</u> 278	20.0	UNL		<u></u>	
	372449N 1265542E		<u>087</u> 267	22.0	7 500(3 400) Class A, D, G	\downarrow		
\triangle	EGOBA		201					
•	372915N 1272246E KARBU	N/A	<u>087</u> 267	13.9	7 500(5 100)			
	373159N 1273952E	IN/A	087	22.9	Class A, D, G UNL 7 500(4 500)			Daegu ACC
•	TORUS 373625N 1280807E		268	22.0	Class A, D, G UNL			FREQ: (at or below FL 295) 134.175(123.65) MHz
•	BIKSI		088 268	21.8	7 500(7 500) Class A. D. G			272.40(233.60) MHz FREQ: (above FL 295)
	374032N 1283504E		<u>088</u> 268	8.2	UNL 7 500(7 100)			122.25Ò(125.925) MHz 263.350(263.85) MHz
\triangle	GANGWON VORTAC(KAE) 374203N 1284514E		130	30.0	Class A, D, G UNL 8 000(7 100)			Airspace Classification refer to ENR 3.1-1
•	PILIT 372631N 1291731E		310		Class A, D, G			
•	NIMUS 371210N 1294656E		310	27.5	_			
\triangle	AGSUS		<u>130</u> 310	50.8	UNL 9 000(1 500) Class A, D, G			Daegu ACC FREQ : 122.250(125.925) MHz
•	364521N 1304044E LANAT(FIR BDRY)		<u>130</u> 311	42.9			<u> </u>	263.350(263.85) MHz Only flying westbound from LANAT to KAE on G597 shall get 24HR PPR from
	362224N 1312542E							Daegu ACC.
	INCHEON FIR							Airspace Classification
	FUKUOKA FIR							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>

Change: Information of controlling unit and frequencies.

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

/ A .1	Route designator	Waypoint			Upper limits Lower limits		tion of levels	
Nan	avigation specification) ne of significant points Coordinates avigation 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
•	Y711 (RNAV2) [GNSS, DME/DME, DME/DME/IRU] MONSI		J	7	J	,		Daegu ACC FREQ: (at or below FL 295) 128.70(118.925) MHz 270.50(263.60) MHz FREQ: (above FL 295)
•	371247N 1265015E BULTI		<u>190</u> 010	29.4	UNL FL 140(2 900)		1	132.80(120.525) MHz 290.60(335.45) MHz Airspace Classification refer to ENR 3.1-1
•	364322N 1264930E MEKIL		<u>187</u> 007	10.0	Class A, D, G			Incheon ACC
	363322N 1264953E		<u>187</u> 006	10.2	UNL			FREQ: (at or below FL 255) 126.175(134.375) MHz 317.85(335.55) MHz
^	GONAX 362311N 1265016E		<u>193</u> 013	14.1	FL 140(3 200) Class A, D, G			FREQ: (above FL 255) 132.15(123.55) MHz 263.15(272.60) MHz
Δ	BEDES 360905N 1264844E ELPOS		<u>193</u> 013	14.9	UNL FL 140(2 200) Class A. D. G			Airspace Classification refer to ENR 3.1-1
•	355410N 1264707E MANGI		<u>193</u> 013	24.0	UNL FL 140(2 800) Class A. D. G			
Δ	353011N 1264432E		<u>193</u> 013	22.7	UNL FL 140(3 800) Class A, D, G			Incheon ACC FREQ: (at or below FL 255
Δ	350731N 1264206E NULDI		<u>193</u> 013	42.4	UNL FL 140(4 000)			120.725(128.30) MHz 263.90(272.75) MHz FREQ: (above FL 255)
Δ	342514N 1263739E	N/A	<u>193</u> 013	10.0	Class A, D, G UNL FL 140(3 300)			123.725(124.50) MHz 239.25(275.40) MHz Airspace Classification
•	DOTOL 341515N 1263637E		<u>193</u> 012	24.8	Class A, D, G UNL FL 140(2 700)			refer to ENR 3.1-1 Incheon ACC
Δ	KIDOS 335028N 1263402E		207 027	25.9	Class A, D, G <u>UNL</u> FL 140(6 000)			FREQ: 124.525(132.425) MHz 255.40(233.50,
Δ	REMOS 332605N 1262329E		207 027	27.4	Class A, D, G UNL FL 140(6 300)			348.10) MHz Airspace Classification refer to ENR 3.1-1
^	PANSI 330014N 1261225E		207 027	33.4	Class A, D, G			-
Δ	DOMKO 322848N 1255859E PONIK		207 027	30.1	-			Incheon ACC
Δ	320021N 1254659E		<u>207</u> 026	18.2	UNL			FREQ: (At or above FL 335 133.425(132.425) MHz 234.35(234.65) MHz
<u>△</u>	314314N 1253948E KANKA		<u>207</u> 026	12.0	FL 140(1 500) Class A, D, G			FREQ: (below FL 335) 125.725(132.825,
	313155N 1253504E		<u>207</u> 026	67.0	-			128.375) MHz 232.95(233.15) MHz
^	BONSO 302840N 1250851E		<u>206</u> 026	30.2				Airspace Classification refer to ENR 3.1-1
	MUGUS(FIR BDRY) 300006N 1245712E		-					
	INCHEON FIR 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 required.

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

N.	Route designator Navigation specification) ame of significant points Coordinates Navigation Specification limitation]	Waypoint IDENT of VOR/DME BRG & DIST ELEV DME Antenna	MAG TRACK	Geodetic DIST NM	Upper limits Lower limits (MOCA) ft AMSL or FL Airspace classification		ion of levels	Remarks Controlling unit Frequency
	1 Y722	2	3	4	5	7	7	10
	(RNAV2) [GNSS, DME/DME, DME/DME/IRU]							Incheon ACC FREQ: (at or below FL 255) 126.175(134.375) MHz
	SONGTAN VORTAC(SOT) 370540N 1270154E		104		UNL			317.85(335.55) MHz
•	OLMEN 364413N 1265928E		<u>194</u> 014	21.5	FL 140(3 100) Class A, D, G UNL			FREQ: (above FL 255) 132.15(123.55) MHz 263.15(272.60) MHz
	GUNKU		<u>187</u> 007	10.0	FL 140(3 600) Class A, D, G			Airspace Classification refer to ENR 3.1-1
	363414N 1265949E		<u>187</u> 007	11.0	UNL FL 140(3 300)			Total to Livit c.1 1
	PEBRI 362311N 1270013E		<u>193</u> 013	29.5	Class A, D, G UNL FL 140(2 300)			
	ATASO 355344N 1265657E		<u>193</u>	23.6	Class A, D, G UNL FL 140(3 800)			Incheon ACC
•	MAKSA 353011N 1265422E		013 193		Class A, D, G UNL			FREQ: (at or below FL 255) 120.725(128.30) MHz 263.90(272.75) MHz
	SAMUL 350736N 1265154E		013	22.7	FL 140(4 000) Class A, D, G			FREQ : (above FL 255) 123.725(124.50) MHz
			<u>193</u> 013	52.5	UNL FL 140(3 400) Class A, D, G			239.25(275.40) MHz Airspace Classification refer to ENR 3.1-1
	KAMIT 341514N 1264618E	N/A	<u>193</u> 013	22.4	UNL FL 140(2 100)			Incheon ACC
	GUKSU 335251N 1264357E	1471	193	10.0	Class A, D, G UNL			FREQ: 124.525(132.425) MHz
	LOSNI 333315N 1264153E		012	19.6	FL 140(1 700) Class A, D, G UNL			255.40(233.50, 348.10) MHz
	JEJU VORTAC(CJU)		<u>207</u> 027	10.8	FL 140(7 600) Class A, D, G UNL			Airspace Classification refer to ENR 3.1-1
•	332305N 1263727E SOSDO		<u>207</u> 027	24.3	FL 140(8 700) Class A, D, G			
	330012N 1262735E SAMLO		<u>207</u> 027	29.5				
	323223N 1261536E NIRAT		<u>207</u> 027	30.2				Incheon ACC FREQ: (At or above FL 335)
	320354N 1260329E ELGEP		<u>207</u> 027	18.1	UNL FL 140(1 500)			133.425(132.425) MHz 234.35(234.65) MHz
	314653N 1255617E TESIM		<u>207</u> 027	12.1	Class A, D, G			FREQ: (below FL 335) 125.725(132.825,
	313526N 1255128E		<u>207</u> 026	100.9				128.375) MHz 232.95(233.15) MHz
•	ATOTI(FIR BDRY) 300013N 1251154E					<u> </u>		Airspace Classification refer to ENR 3.1-1
	INCHEON FIR SANGHAI FIR							

Change: Information of frequencies.

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SANGHAI FIR

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

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

	Route designator	Waypoint IDENT of VOR/DME			Upper limits Lower limits (MOCA)	Direct crui: lev	ion of sing els	
	Navigation specification) lame of significant points Coordinates gation Specification limitation]		MAG TRACK	Geodetic DIST NM	ft AMSL or FL Airspace classification	Odd	Even	Remarks Controlling unit Frequency
	<u> </u>	2	3	4	5	(3	7
	(RNAV2) [GNSS, DME/DME,							Daegu ACC FREQ: (at or below FL 295)
•	DME/DME/IRU] PILIT							134.175(123.65) MHz 272.40(233.60) MHz FREQ: (above FL 295)
	372631N 1291731E NOBUT		<u>183</u> 003	19.3	UNL 9 000(4 900) Class A, D, G		↓	122.250(125.925) MHz 263.350(263.85) MHz
	370715N 1291957E				Class A, D, G			1. 11 000 ft to FL 240, at or above FL 280 will be blocked.
			183 003	47.2	UNL 9 000(5 600) Class A, D, G			At or above 11 000 ft, required 15 days PPR from Air Traffic Management Office.
	LOSTO	N/A						Airspace Classification refer to ENR 3.1-1
_	362016N 1292548E		183 003	21.7	UNL 9 000(2 100)			Daegu ACC FREQ:
	POHANG VORTAC(KPO) 355838N 1292828E		213	37.2	Class A, D, G UNL 9 000(4 400)			120.575(119.375, 119.325, 134.375) MHz 254.70(335.75) MHz
•	APARU 352442N 1290932E		033 <u>213</u>	19.0	Class A, D, G UNL 9 000(4 400)			1. 11 000 ft to FL 240, at or above FL 280 will be blocked.
Δ	BUSAN VORTAC(PSN)		032	19.0	Class A, D, G	<u> </u>		At or above 11 000 ft, required 15 days PPR from Air Traffic
	350721N 1285958E							Management Office. 3. Airspace Classification refer to ENR 3.1-1
	Y781 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]							Daegu ACC
	-							FREQ: 125.375(125.775,
	DALSEONG VORTAC(TGU) 354835N 1283527E		192	19.8	UNL 7 000(4 900)	1		124.575) MHz 234.15(317.35, 335.50) MHz
•	MASTA 352847N 1283340E		012 		Class A, D, G UNL			Airspace Classification refer to ENR 3.1-1
Δ	ANKUS 350730N 1284616E	N/A	342	23.6	7 000(4 000) Class A, D, G UNL			TOTAL TO LINE 3.1-1
Δ	OMOTU		<u>162</u> 342	7.7	7 000(3 500) Class A, D, G			
•	350033N 1285022E BESNA(FIR BDRY) 343718N 1290751E		156 336	27.3	UNL 7 000(2 800) Class A, D, G			
	INCHEON FIR							
	FUKUOKA FIR							
								1

^{2.} DME GAP : ANKUS/OMOTU, GNSS required.

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

1. Critical DME: PSN<OMOTU/BESNA>, CJU<OMOTU/BESNA>

Change: Information of frequencies.

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

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

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

Change: Information of frequencies.

Na	Route designator Navigation specification) ame 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	<u>cruising</u>	ion of levels	Remarks Controlling unit Frequency
	Z50 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]	2	3	4	5		5	7 Daegu ACC FREQ: (at or below FL 295) 128.70(118.925) MHz 270.50(263.60) MHz
	EGOBA 372915N 1272246E SONGTAN VORTAC(SOT)	N/A	224 044	28.8	UNL FL 140(3 300) Class A, D, G		\	FREQ: (above FL295) 132.80(120.525) MHz 290.60(335.45) MHz
•	370540N 1270154E BULTI 364322N 1264930E	IVA	213 032	24.4	UNL FL 140(2 900) Class A, D, G	<u></u>		Airspace Classification refer to ENR 3.1-1
	304322N 1204930L							
•	Z51 (RNAV2) [GNSS, DME/DME, DME/DME/IRU] BOPTA 364406N 1263658E							Incheon ACC FREQ: (at or below FL 255) 126.175(134.375) MHz 317.85(335.55) MHz
Δ	MOXID 362311N 1264359E	N/A	173 353	21.6	UNL FL 150(3 900) Class A, D, G UNL		*	FREQ: (above FL 255) 132.15(123.55) MHz 263.15(272.60) MHz
Δ	BEDES 360905N 1264844E		353	14.6	FL 150(3 600) Class A, D, G			Airspace Classification refer to ENR 3.1-1
	Z52 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]							Incheon ACC FREQ: (at or below FL 255) 126.175(134.375) MHz
	OLMEN 364413N 1265928E POSAN		<u>051</u> 231	16.4	UNL 8 000(3 400) Class A, D, G	\		317.85(335.55) MHz FREQ: (above FL 255) 132.15(123.55) MHz
Δ	365615N 1271316E KAKSO 370745N 1272637E	N/A	<u>051</u> 232	15.7	UNL 8 000(3 000) Class A, D, G		<u> </u>	263.15(272.60) MHz Airspace Classification refer to ENR 3.1-1
•	Z53 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]							Daegu ACC FREQ: (at or below FL 295) 128.70(118.925) MHz 270.50(263.60) MHz
Δ	361645N 1280148E TEBEX 363341N 1275929E	N/A	<u>002</u> 182	17.0	UNL FL 160(4 000) Class A, D, G UNL		↓	FREQ: (above FL 295) 132.80(120.525) MHz 290.60(335.45) MHz
Δ	BASEM 365037N 1275710E		<u>002</u> 182	17.0	FL 160(4 600) Class A, D, G	<u> </u>		Airspace Classification refer to ENR 3.1-1

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

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,	Route designator	Waypoint IDENT of VOR/DME			Upper limits Lower limits (MOCA)		ion of	
N	Navigation specification) ame of significant points Coordinates ation Specification limitation]	BRG & DIST ELEV DME Antenna	MAG TRACK	Geodetic DIST NM	ft AMSL or FL Airspace classification	Odd	Even	Remarks Controlling unit Frequency
	11	2	3	4	5	(<u> </u>	7
	Z54 (RNAV2) [GNSS, DME/DME,							Daegu ACC
^	DME/DME/IRU]							FREQ: (at or below FL 295) 128.70(118.925) MHz 270.50(263.60) MHz
Δ	SONGTAN VORTAC(SOT) 370540N 1270154E		316 136	11.7	UNL 8 000(2 400)		\	FREQ: (above FL 295) 132.80(120.525) MHz
•	MONSI 371247N 1265015E	N/A			Class A, D, G UNL			290.60(335.45) MHz
\triangle	GOGET		316 136	19.7	8 000(2 300) Class A, D, G	↑		Airspace Classification refer to ENR 3.1-1
	372442N 1263036E				,			
	Z55 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]							Daegu ACC FREQ: (at or below FL 295)
	SANGHAI FIR							128.70(118.925) MHz
	INCHEON FIR							270.50(263.60) MHz
•	AGAVO(FIR BDRY)							FREQ : (above FL 295) 132.80(120.525) MHz
	371010N 1235953E	N/A	<u>154</u> 334	35.5	UNL FL 140(1 500)			290.60(335.45) MHz
•	NONOS 364046N 1242453E		304		Class A, D, G		1	Airspace Classification refer to ENR 3.1-1
Criti	cal 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
	PYONGYANG FIR							122.250(125.925) MHz 263.350(263.85) MHz
	INCHEON FIR						ı	200.000(200.00) WII IZ
•	KANSU(FIR BDRY)							Airspace Classification
\triangle	383800N 1322830É PALDU		180 360	40.2		\		refer to ENR 3.1-1
	375813N 1323625E	N/A	<u>180</u> 360	19.9	UNL FL 200(1 500)			
Δ	SABET 373829N 1324019E		180	19.9	Class A, G			
•	IGRAS(FIR BDRY) 371846N 1324411E		360				1	
	INCHEON FIR FUKUOKA FIR							
	cal DME : KAE <paldu sabet=""> E GAP : KANSU/PALDU, GNSS</paldu>				· 	BET/IGRA	S>	

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

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(1)	Route designator lavigation specification)	Waypoint IDENT of VOR/DME			Upper limits Lower limits (MOCA)	crui	tion of ising rels	
Na	me of significant points Coordinates Navigation Specification limitation]	BRG & DIST ELEV DME Antenna	MAG TRACK	Geodetic DIST NM 4	ft AMSL or FL Airspace classification 5		Even	Remarks Controlling unit Frequency
Δ	Z57 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]	_	J	·			0	Daegu ACC FREQ: (at or below FL 295) 128.70(118.925) MHz 270.50(263.60) MHz
Δ	371033N 1241442E	N/A	<u>154</u> 334	14.5	UNL FL 150(1 500) Class A, D, G	\		FREQ: (above FL 295) 132.80(120.525) MHz 290.60(335.45) MHz
	365835N 1242453E							Airspace Classification refer to ENR 3.1-1
1. Crit	ical DME : SEL <rilro da<="" td=""><td>LPO>, KUZ<</td><td>RILRO/DA</td><td>LPO></td><td></td><td></td><td></td><td></td></rilro>	LPO>, KUZ<	RILRO/DA	LPO>				
	Z63 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]							Daegu ACC FREQ: (at or below FL 295)
•	PILIT 372631N 1291731E	N/A	064	26.1	UNL FL 250(1 500)	1		134.175(123.65) MHz 272.40(233.60) MHz FREQ: (above FL 295)
•	NOMEX 374112N 1294441E		245		Class A, G			122.250(125.925) MHz 263.350(263.85) MHz Airspace Classification refer to ENR 3.1-1
1. Crit	ical DME : KAE <pilit non<="" td=""><td>⊥ ∕IEX>, KPO<f< td=""><td>PILIT/NOM</td><td>EX></td><td></td><td></td><td></td><td></td></f<></td></pilit>	⊥ ∕IEX>, KPO <f< td=""><td>PILIT/NOM</td><td>EX></td><td></td><td></td><td></td><td></td></f<>	PILIT/NOM	EX>				
	Z81 (RNAV2) [GNSS, DME/DME, DME/DME/IRU]							Incheon ACC FREQ: 124.525(132.425) MHz
Δ	KIDOS 335028N 1263402E JEJU VORTAC(CJU)	N/A	<u>182</u> 001	27.5	UNL FL 140(8 700) Class A, D, G		Ţ	255.40(233.50, 348.10) MHz Airspace Classification refer to ENR 3.1-1
	332305N 1263727E							
	Z82 (RNAV2) [GNSS, DME/DME/IRU]							Incheon ACC FREQ: 124.525(132.425) MHz
△	JEJU VORTAC(CJU) 332305N 1263727E PANSI	N/A	230 050	31.0	UNL FL 140(8 700) Class A, D, G		\	255.40(233.50, 348.10) MHz Airspace Classification refer to ENR 3.1-1
1 DM	330014N 1261225E E GAP : CJU/PANSI, GNS	S required						
וט . ו	E GAF . CJU/PANSI, GNS	oo required.						

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

OFFICE OF CIVIL AVIATION AIRAC AIP AMDT 11/23

Effective : 1600UTC 29 NOV 2023

Route designator Navigation specification Internation Oracinate Navigation Specification Oracinate Or						1		
[GNSS, DME/DME, DME/DME/DME/DME/DME/DME/DME/DME/DME/DME/	N	Navigation specification) ame of significant points Coordinates aution Specification limitation]	VOR/DME BRG & DIST ELEV DME Antenna	TRACK	DIST NM	Lower limits (MOCA) ft AMSL or FL Airspace classification	cruising levels Odd Even	Controlling unit
344834N 1282952E A ANROD 343758N 1282952E 1. Critical DME: PSN <tgu masta="">, TGU<tgu masta="">, PSN<masta saram="">, TGU<masta saram="">, PSN<saram engot="">, TGU<saram engot=""> 2. DME GAP: ENGOT/ANROD, GNSS required. Z84 (RNAV2) [GNSS, DME/DME, DME/DME/IRU] A KALEK(FIR BDRY) 350721N 1285958E N/A X84 (RNAV2) 1351232N 1295305E N/A BILUM 334613N 1270439E A PAPLU 333441N 1270337E A RUGMA(FIR BDRY) 323012N 1265753E INCHEON FIR FUKUOKA FIR INCHEON FIR FUKUOKA FIR 188 10.6 5000(3 300) Class A, D, G 1 10. UNL 10. 10. 10. 10. 10. 10. 10. 10. 10. 10.</saram></saram></masta></masta></tgu></tgu>	•	[GNSS, DME/DME, DME/DME/IRU] DALSEONG VORTAC(TGU) 354835N 1283527E MASTA 352847N 1283340E SARAM 350736N 1283147E		012 192 012 193	21.2	5 000(4 900) Class A, D, G UNL 5 000(3 800) Class A, D, G UNL 5 000(3 000)	_	FREQ: 125.375(125.775, 124.575) MHz 234.15(317.35, 335.50) MHz Airspace Classification
PSN-SARAM/ENGOT>, TGU-SARAM/ENGOT> 2. DME GAP : ENGOT/ANROD, GNSS required. Z84 (RNAV2) [GNSS, DME/DME, DME/DME/IRU] △ BUSAN VORTAC(PSN) 350721N 128598E N/A 091/272 43.8 000(3 100) ▲ KALEK(FIR BDRY) 351232N 1295305E N/A 091/272 43.8 000(3 100) A KALEK(FIR BDRY) 351232N 1295305E INCHEON FIR FUKUOKA FIR Z85 (RNAV2) [GNSS, DME/DME/IRU] △ BILUM 334613N 1270439E △ PAPLU 333441N 1270337E A RUGMA(FIR BDRY) 323012N 1265753E INCHEON FIR FUKUOKA FIR 192/012 11.5 UNL FL 170(1 500) 348.10) MHz Airspace Classification refer to ENR 3.1-1 Incheon ACC FREQ: 124.525(132.425) MHz 255.40(233.50, 348.10) MHz Airspace Classification refer to ENR 3.1-1 Incheon ACC FREQ: 124.525(132.425) MHz 255.40(233.50, 348.10) MHz Airspace Classification refer to ENR 3.1-1 INCHEON FIR FUKUOKA FIR	•	344834N 1282952E ANROD			10.6	UNL 5 000(2 300)	1	refer to ENR 3.1-1
(RNAV2) [GNSS, DME/DME/IRU] Incheon ACC △ BILUM 334613N 1270439E 192 012 11.5 UNL FL 170(1 500) Airspace Classification refer to ENR 3.1-1 ▲ RUGMA(FIR BDRY) 323012N 1265753E 192 011 64.5 Class A, D, G INCHEON FIR FUKUOKA FIR INCHEON FIR	2. DM	PSN <saram (rnav2)="" 1285958e="" 1295305e="" 350721n="" 351232n="" [gnss,="" anrod,="" bdry)="" busan="" dme="" dme,="" en="" engot="" fir<="" gap:="" ie="" incheon="" iru]="" kalek(fir="" o="" td="" vortac(psn)="" z84=""><td>IGOT>, TGU<:</td><td>091</td><td>NGOT></td><td>UNL 8 000(3 100)</td><td>1</td><td>Daegu ACC FREQ: 125.375(125.775, 124.575) MHz 234.15(317.35, 335.50) MHz Airspace Classification</td></saram>	IGOT>, TGU<:	091	NGOT>	UNL 8 000(3 100)	1	Daegu ACC FREQ: 125.375(125.775, 124.575) MHz 234.15(317.35, 335.50) MHz Airspace Classification
	Δ	(RNAV2) [GNSS, DME/DME/IRU] BILUM 334613N 1270439E PAPLU 333441N 1270337E RUGMA(FIR BDRY) 323012N 1265753E INCHEON FIR	N/A	012 192		FL 170(1 500)	1	FREQ: 124.525(132.425) MHz 255.40(233.50, 348.10) MHz
1. DME GAP: BILUM/PAPLU, PAPLU/RUGMA, GNSS required.			DI II/DI G	ONICO				

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

(Naviga Name o	ute designator tion specification) f significant points Coordinates tion Specification limitation]	Waypoint IDENT of VOR/DME BRG & DIST ELEV DME Antenna	TRACK	Geodetic DIST NM	Airspace classification	cruising	ion of levels	Remarks Controlling unit Frequency
	. 1	2	3	4	5	7	7	10
[ĠN	IAV2) ISS, DME/DME/IRU]							Incheon ACC
302	840N 1250851E	N/A	181 001	28.5	UNL FL 140(1 500)		+	124.525(132.425) MHz 255.40(233.50, 348.10) MHz
	OTI(FIR BDRY) 013N 1251154E				Class A, D, G			Airspace Classification refer to ENR 3.1-1
INC	HEON FIR							
FU	KUOKA FIR							
Z91	AP : BONSO/ATOTI,	GNSS require	d.					
[GN DM	ISS, DME/DME, E/DME/IRU] SAN VORTAC(PSN)							FREQ: 125.375(125.775, 124.575) MHz
	350721N 1285958E	N/A	149 329	25.6	UNL 10 000(3 000) Class A. D. G	\		234.15(317.35, 335.50) MHz
	OK(FIR BDRY) 719N 1291923E				Glass A, D, G		T T	Airspace Classification refer to ENR 3.1-1
INC	HEON FIR							
FUK	(UOKA FIR							

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

	Route designator (Navigation specification) Name of significant points Coordinates [Navigation Specification limitation]	Waypoint IDENT of VOR/DME BRG & DIST ELEV DME Antenna	MAG TRACK	Geodetic DIST NM 4	Upper limits Lower limits (MOCA) ft AMSL or FL Airspace classification 5		ion of levels	Remarks Controlling unit Frequency 10
	Y590 (RNAV2) [GNSS, DME/DME/IRU]							Incheon ACC
	FUKUOKA FIR INCHEON FIR			II.				FREQ: (at or above FL 335) 133.425(132.425) MHz
H	▲ BEDAR(FIR BDRY)							234.35(234.65) MHz
	315401N 1262910É △ ELGEP		<u>263</u> 082	28.9	UNL			FREQ: (below FL 335) 125.725(132.825, 128.375) MHz
	314653N 1255617E △ IKEDO	N/A	<u>262</u> 082	14.5	FL 240(1 500) Class A, G			232.95(233.15) MHz Airspace Classification
	314314N 1253948E ▲ SADLI		<u>288</u> 108	34.5		↑		refer to ENR 3.1-1
	314948N 1250000E							

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

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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ENR 3.3 - 22
19 OCT 2023

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