# **ENR 3. ATS ROUTES**

### **ENR 3.1 Lower ATS routes**

## 3.1.1 INTERNATIONAL ATS ROUTES

			Upper limits Lower limits			ion of levels	
Route designator (RNP/RNAV) Name of significant points Coordinates	VOI	MAG↑/↓ R RDL DIST COP)	or Minimum altitude(MOCA) ft AMSL or FL Airspace classification	Lateral limits NM	Odd	Even	Remarks Controlling unit channel Logon address 6
					`	,	
A582  △ ANYANG VORTAC(SEL)  372449N 1265542E	174°			10	<b> </b>		Daegu ACC FREQ : (at or below FL 295)
A POLEC	174° 354° 12.4		_UNL_				128.70(118.925) MHz 270.50(263.60) MHz
△ POLEG 371249N 1265935E	174° 354°		4 500 (3 400) Class A, D, G				FREQ: (above FL 295) 132.80(120.525) MHz 290.60(335.45) MHz
△ SONGTAN VORTAC(SOT) 370540N 1270154E	7.4			_			Airspace Classification Class A : Above FL 200 - FL 600
	144° 324° 21.6		UNL 8 000				Class D : MEA - FL 200 Class G : Above FL 600 - UNL
▲ OSPOT 365018N 1272055E	144° 324°		(3 300) Class A, D, G				Daegu ACC
▲ VASLI 364252N 1273003E	10.4 144° 324°		UNL 8 000				FREQ: 125.375(125.775, 124.575) MHz 234.15(317.35,
▲ MAKDU 362712N 1274909E	21.9	(69/39)	(4 300) Class A, D, G UNL				335.50) MHz
A DITUY	144° 324° 14.6		8 000 (4 400)				Airspace Classification Class A: Above FL 200 - FL 600
▲ BITUX 361645N 1280148E	144° 324°		Class A, D, G  UNL  10 000 (5 200)				Class D: MEA - FL 200 Class G: Above FL 600 - UNL
△ DALSEONG VORTAC(TGU) 354835N 1283527E	39.2 162°		Class A, D, G	_			
▲ KALOD	342° 20.4		UNL 6 000				
353012N 1284626E	162° 342°		(5 400) Class A, D, G				
△ BUSAN VORTAC(PSN)	25.4		, , -				
350721N 1285958E	162° 342°		UNL 4 000 (3 000)				
▲ APELA(FIR BDRY) 344323N 1291400E	26.6		Class A, D, G			1	
INCHEON FIR							
FUKUOKA FIR							

Change: Information of frequencies.

				per limits			tion of	
Route designator (RNP/RNAV) Name of significant points	VOI	MAG↑/↓ R RDL DIST	Minimum ft Al	wer limits or altitude(MOCA) MSL or FL	limits		g levels	Remarks Controlling unit channel
Coordinates 1	(0	2 2	Airspace	e classification 3	NM 4	Odd	Even	Logon address
A586*				3	4	;	5	6
△ TENAS								
373820N 1313427E	227° 047°			UNL	10		<b></b>	Daegu ACC
				310(4 600)				FREQ :
△ AGSUS	68.1		Cli	ass A, G				122.250(125.925) MHz
364521N 1304044E	228° 048°							263.350(263.85) MHz
▲ DABIK	36.2			UNL				Airspace Classification
361743N 1301143E	228°			310(1 500) ass A, G				refer to ENR 3.1-1
	048°			ass A, O				Daegu ACC
▲ BULGA	28.1							FREQ :
355609N 1294924E	228° 048°			UNL				120.575(119.375,
▲ BEDOM	40.2			310(2 900) ass A, G				119.325, 134.375) MHz
352513N 1291754E	228°			UNL				254.70(335.75) MHz
	047°		FL	310(4 000)				Airspace Classification
△ BUSAN VORTAC(PSN)	23.1		Cla	ass A, G				refer to ENR 3.1-1
350721N 1285958E	237° 057°			10 000				Daegu ACC
				8 000(3 500)				FREQ :
△ OMOTU	10.4			Class D				125.375(125.775,
350033N 1285022E								124.575) MHz
	237° 057°			10 000				234.15(317.35, 335.50) MHz
	22.3			8 000(3 200) Class D				,
▲ TOPAX								Airspace Classification refer to ENR 3.1-1
344555N 1282952E	237° 057°			10 000				Daegu ACC
				8 000(2 800)				
▲ GOSBO	46.4		UNL**	Class D				FREQ: 128.175(128.325) MHz
341517N 1274734E	237°	(79/78)	11 000	10 000				335.50(275.20) MHz
	056°			8 000(2 000)				Airspace Classification
▲ MAKET	30.7			Class D				refer to ENR 3.1-1
335452N 1271953E	236° 056°			10 000				Incheon ACC
A TINIA				8 000(1 500) Class D				
△ ATINA 334320N 1270423E	17.3							FREQ: 124.525(132.425) MHz
334320N 1270423E	236° 056°			10 000 8 000(1 500)				255.40(233.50,
△ MANOL	10.3			Class D				348.10) MHz
333629N 1265514E	235°			10 000				Airspace_Classification
	055°			9 000(8 700)				refer to ENR 3.1-1
△ JEJU VORTAC(CJU) 332305N 1263727E	20.0			Class D				
3323U3N 1203121E	169° 349°		9.0	UNL 00(8 700)				* The cruising levels
▲ TOSAN	24.0			ss A, D, G				from CJU to RUGMA are even levels due
330012N 1264619E	<u>169°</u>			UNL				to operational reasons.
	349°			00(1 500)				★ The cruising levels
▲ RUGMA(FIR BDRY)	31.5		Clas	ss A, D, G		1		from RUGMA to CJU are odd levels due to
323012N 1265753E								operational reasons.
INCHEON FIR								
FUKUOKA FIR								
		_						

TENAS-PSN CDR1 Operational hour(UTC) - Weekdays: 1100-2200 - SAT: 2200 on the preceding until 2400 on the Saturday - SUN: 0000-2200 - Holiday: 1100 on the preceding until 2200 on the holiday. Rest of A586-PERM. See ENR 1.1-1.2.

Change: Information of controlling unit and frequencies.

 <sup>\*</sup> A586(PSN-CJU) is only used for Non-RNAV aircraft. Any aircraft approved for RNAV operations should use Y571 or Y572.
 \*\* Any aircraft planning to operate above 10 000 ft between PSN and CJU must coordinate with Daegu ACC before flight planning.

		Upper limits Lower limits		Direction of cruising levels	
Route designator (RNP/RNAV) Name of significant points Coordinates	Track MAG↑/↓ VOR RDL DIST (COP)	or Minimum altitude(MOCA) ft AMSL or FL Airspace classification	Lateral limits NM	Odd Even	Remarks Controlling unit channel Logon address
1	2	3	4	5	6
FUKUOKA FIR		1			
INCHEON FIR  A593  ▲ ONIKU(FIR BDRY)					Incheon ACC
	263° 082°		50	<b>1</b>	FREQ: (at or above FL 335) 133.425(132.425) MHz 234.35(234.65) MHz
△ NIRAT 320354N 1260329E	31.4 263° 083°	UNL			FREQ: (below FL 335) 125.725(132.825, 128.375) MHz 232.95(233.15) MHz
△ PONIK 320021N 1254659E	14.5 262° 082°	FL 240 (1 500) Class A, G			Airspace Classification refer to ENR 3.1-1
= OADLI	41.4 263° 082°	-		1	Eastbound from SADLI to ONIKU is only for Non-approval of RNAV 2. Any aircraft approved for RNAV 2 operation should use Y590.
▲ LAMEN(FIR BDRY) 313636N 1240000E	52.8			1	Should dec 1990.
INCHEON FIR SHANGHAI FIR					

#### 1. Delegation

The responsibility of Air Traffic Services in the scope below within Incheon FIR is delegated to Shanghai ACC.

- Horizontal scope : 320229N 1240000E 321540N 1250000E 312356N 1250000E 311043N 1240000E
- Vertical scope : FL 240 through FL 410 inclusive
- 2. Flight Level Allocation Scheme (FLAS)
  - (1) The west of SADLI
    - Eastbound: FL 250, FL 270, FL 290, FL 310, FL 330, FL 350, FL 370, FL 390, FL 410
    - Westbound: FL 240, FL 260, FL 280, FL 300, FL 320, FL 340, FL 360, FL 380, FL 400
  - (2) The east of SADLI
    - Eastbound(From Shanghai FIR To Fukuoka FIR): FL 250, FL 290, FL 310, FL 390
    - Westbound(From Fukuoka FIR To Shanghai FIR) : FL 240, FL 280, FL 300, FL 400

A595  △ JEJU VORTAC(CJU)						
332305N 1263727E	089° 269° 35.9	UNL 9 000 (8 700)	8	<b>1</b>		Incheon ACC FREQ: 124.525(132.425) MHz 255.40(233.50,
▲ TAMNA 332815N 1271953E	089° 270°	Class A, D, G				348.10) MHz Airspace Classification refer to ENR 3.1-1
▲ SAMDO(FIR BDRY) 333503N 1281857E	49.8	Class A, D, G			<u> </u>	
INCHEON FIR						
FUKUOKA FIR						

Change: Information of controlling unit and frequencies.

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			Upper limits		Direct	tion of	
			Lower limits			g levels	
Route d	esignator	Track MAG↑/↓	Or Minimum altitude(MOCA)				
l (RNP/	RNĀV)	VOR RDL	Minimum altitude(MOCA) ft AMSL or FL				Remarks
Name of sig	nificant points dinates	DIST (COP)	Airspace classification	limits NM	Odd	Even	Controlling unit channel Logon address
	1	2	3	4	_	ven_ 5	6
PYON	IGYANG FIR	_					
	HEON FIR						
B332							
▲ KANSU(FIF	·						D 400
383800N 1	322830E	<u>180</u> °		50	↓		Daegu ACC
		360°					FREQ :
△ PALDU		40.2	LINII				122.250(125.925) MHz
375813N 1	323625E	180°	UNL				263.350(263.85) MHz
		360°	FL 200				200.000(200.00) Wil 12
△ SABET		19.9	(1 500)				Airspace Classification
373829N 1	324019F	180°	Class A, G				refer to ENR 3.1-1
37302311	024010L	360°					
▲ IGRAS(FIR	·	19.9				<u> </u>	
371846N 1	324411E						
INC	HEON FIR						
	UOKA FIR						
B467	.00104 1 110						
	N VORTAC(KAE)						
374203N 1		100°	UNL	10	<b> </b>		
		280°	8 000				
		200	(7 100)				
		47.0	(* 133)				
▲ NOMEX		47.2	Class A, D, G				Daegu ACC
374112N 1	294441E	100°	UNL				FDFO .
		280°	8 000				FREQ :
		200	(1 500)				122.250(125.925) MHz 263.350(263.85) MHz
, DUIOKO		25.0	Olara A. D. O				203.330(203.63) WII IZ
△ BUSKO 374033N 1	2016105		Class A, D, G UNL				Airspace Classification
3/4033N I	301010	100°	— UNL				refer to ENR 3.1-1
		281°	8 000				Total to Entry of the
			(4 600)				
△ TENAS		62.2	Class A, D, G				
373820N 1	313427E	044°	0.000 7.1, 2, 0	50			
		224°	LINII				
			UNL				
△ MALSO		20.0	FL 200				
375440N 1	314904E	<u>044</u> °	(1 500)				
		225°	Class A, G				
A KANOUKE	D DDDV)	52.2				•	
▲ KANSU(FIF 383800N 1	,	53.3				1	-
JUJUUNI	022000E						
INC	HEON FIR						
	IGYANG FIR						1
-		•					

			Upper lin	nits		Direct	ion of	
			Lower lin				g levels	
Route designator (RNP/RNAV) Name of significant points Coordinates	MA VOF D (C	rack G↑/↓ R RDL IST OP)	Minimum altitud ft AMSL of Airspace class	r FL	Lateral limits NM	Odd	Even	Remarks Controlling unit channel Logon address
B576*		2	3		4	Ę	5	6
△ ANYANG VORTAC(SEL)								Daegu ACC
372449N 1265542E	174° 354°		UNL		10		<b>↓</b>	FREQ : (at or below FL 295) 128.70(118.925) MHz 270.50(263.60) MHz
△ POLEG 371249N 1265935E	12.4 174° 354°		4 500 (3 400)					FREQ: (above FL 295) 132.80(120.525) MHz 290.60(335.45) MHz
△ SONGTAN VORTAC(SOT) 370540N 1270154E	7.4		Class A, D	), G				Airspace Classification refer to ENR 3.1-1
370340N 1270134L	194° 014°			(2 800)				Incheon ACC
▲ OLMEN 364413N 1265928E	21.5 194° 014°		12 000	(3 600)				FREQ: (at or below FL 255) 126.175(134.375) MHz 317.85(335.55) MHz
▲ ENTEL 362311N 1265705E	21.1 194°	(59/59)	<u>13 000</u> 7 000	,				FREQ: (above FL 255) 132.15(123.55) MHz 263.15(272.60) MHz
△ RINBO	013° 29.4	KUZ	Class D	(3 100)				Airspace Classification refer to ENR 3.1-1
355352N 1265349E	193° 013° 22.7	R-060/ D 19.1	UNL** FL 140 Class A, D, G	(3 400)				* Note B576 is only used for Non-RNAV aircraft. Any aircraft approved for RNAV operations should use Y711 or Y722.
353116N 1265119E	193° 013°			(4 700)				Incheon ACC FREQ: (at or below FL 255)
△ GWANGJU VOR(KWA) 350734N 1264844E	23.8							120.725(128.30) MHz 263.90(272.75) MHz
350734N 1264844E	193° 012° 52.5		13 000 8 000 (4 700)					FREQ: (above FL 255) 123.725(124.50) MHz 239.25(275.40) MHz
▲ IPDAS	02.0	(52/52)	Class D	UNL**				Airspace Classification refer to ENR 3.1-1
341515N 1264301E	193° 012° 52.3		9 000 (8 700)					Incheon ACC FREQ: 124.525(132.425) MHz 255.40(233.50,
△ JEJU VORTAC(CJU) 332305N 1263727E	207° 027°		Class D <u>UNL</u> 9 000	_				348.10) MHz Airspace Classification refer to ENR 3.1-1
▲ SOSDO	027° 24.3		(8 700) Class A, D					** Note Any aircraft planning to
330012N 1262735E	207° 027°		Oldoo A, L	., <b>J</b>				opérate above FL 140 between SOT and CJU must coordinate with Incheon ACC
△ SAMLO 323223N 1261536E	29.5 207° 027°		_					before flight planning.  Incheon ACC
△ NIRAT	30.2		UNL	-				FREQ: (at or above FL 335) 133.425(132.425) MHz
320354N 1260329E	207° 027°		8 000 (1 500)					234.35(234.65) MHz FREQ: (below FL 335)
△ ELGEP 314653N 1255617E	18.1 207° 027°		Class A, D	), G				125.725(132.825, 128.375) MHz 232.95(233.15) MHz
▲ TESIM 313526N 1255128E	12.1 207° 027°							Airspace Classification refer to ENR 3.1-1
▲ ATOTI(FIR BDRY) 300013N 1251154E	100.9					<b>↑</b>		
INCHEON FIR FUKUOKA FIR								
NAVAID(DME) GAP : Between			WA and 55 NM information.	from SC	T, below	10 000	ft AMS	L, request to controller is
·								

Route designator (RNP/RNAV) Name of significant points Coordinates	Track MAG↑/↓ VOR RDL DIST (COP)	Upper limits Lower limits or Minimum altitude(MOCA) ft AMSL or FL Airspace classification	Lateral limits NM		ion of g levels Even	Remarks Controlling unit channel Logon address
1	2	3	4		5	6
G339  △ BUSAN VORTAC(PSN)  350721N 1285958E	149° 330°	UNL	8	<b> </b>		Daegu ACC
▲ INVOK(FIR BDRY)	25.6	10 000 (3 400) Class A, D, G			<b>↑</b>	125.375(125.775, 124.575) MHz 234.15(317.35, 335.50) MHz
344719N 1291923E INCHEON FIR						Airspace Classification refer to ENR 3.1-1
FUKUOKA FIR		·			-	

Change : Information of frequencies.

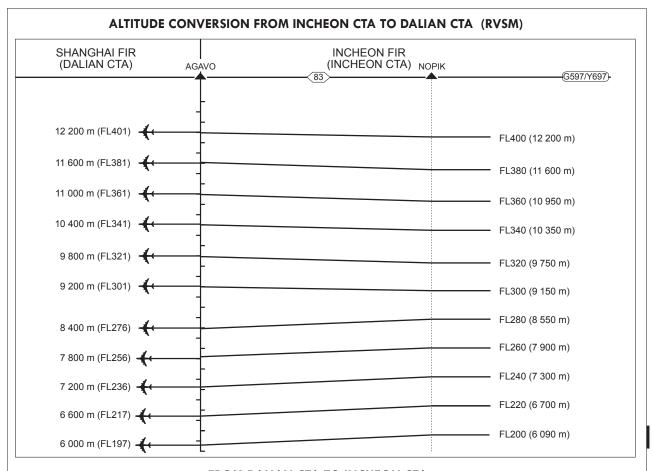
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			Upper limits Lower limits		Direction of cruising levels	
Route designator (RNP/RNAV) Name of significant points Coordinates	OV ]	MAG↑/↓ R RDL DIST COP)	or Minimum altitude(MOCA) ft AMSL or FL Airspace classification	Lateral limits NM	Odd Even	Remarks Controlling unit channel Logon address
G585		2	3	4	5	6 Daegu ACC
△ ANYANG VORTAC(SEL)						_
372449N 1265542E				8	↓	FREQ: (at or below FL 295) 128.70(118.925) MHz
	133° 313° 10.7		LINI			270.50(263.60) MHz  FREQ: (above FL 295) 132.80(120.525) MHz 290.60(335.45) MHz
△ KALMA			UNL 8 000			
371845N 1270645E	133° 313° 19.3		(3 400) Class A, D, G			Only flying westbound from KPO to SEL on G585 is authorized except ACFT departing from RKTY or RKTI.
△ KAKSO	10.0					Aircraft flying eastbound
370745N 1272637E						from SEL to KPO at or above 11 000 ft on G585 shall get PPR 24 hours before from Daegu ACC.
	133°		UNL			No PPR is needed at
	313° 11.5	(50/32)	8 000 (3 600) Class A, D, G			or below 10 000 ft. Airspace Classification refer to ENR 3.1-1
▲ GUKDO		-	UNL			
370111N 1273823E	133° 313°		8 000			Daegu ACC
	9.2		(3 700)			FREQ :
△ ENSAL 365554N 1274747E			Class A, D, G UNL			125.375(125.775,
303334N 1274747E	133° 314°		.8 000			124.575) MHz 234.15(317.35,
△ BASEM	9.2		(4 000) Class A, D, G			335.50) MHz
365037N 1275710E	134°	-	UNL			Only flying westbound
	314°		8 000 (5 000)			from KPO to SEL on G585 is authorized
▲ BIGOB	12.5		Class A, D, G			except ACFT departing
364325N 1280952E	134°	1	UNL			from RKTY or RKTI.
	314°		8 000 (4 900)			Aircraft flying eastbound
△ YECHEON VOR(CUN)	9.5		Class A, D, G			from SEL to KPO at or above 11 000 ft on
363755N 1281931E	133°		<u>UNL</u>			G585 shall get PPR 24
	313°		8 000 (3 900)			hours before from Incheon/Daegu ACC.
△ ELAPI	30.8	(34/34)	Class A, D, G			No PPR is needed at
362014N 1285051E	133°	(3.3.7)	UNL_ 8 000			or below 10 000 ft.
	314°		(5 000)			Airspace Classification refer to ENR 3.1-1
△ POHANG VORTAC(KPO)	37.3		Class A, D, G			TOTAL TO LIVEY U. I-1
355838N 1292828E	107° 287°		UNL 8 000			
▲ RUIGA	17.2		(3 500)			
▲ BULGA 355609N 1294924E			Class A, D, G UNL			
	107° 287°		8 000 (1 500)			
▲ SAPRA(FIR BDRY)	44.4		Class A, D, G		1	
354926N 1304325E			, -, -			
INCHEON FIR						
FUKUOKA FIR						

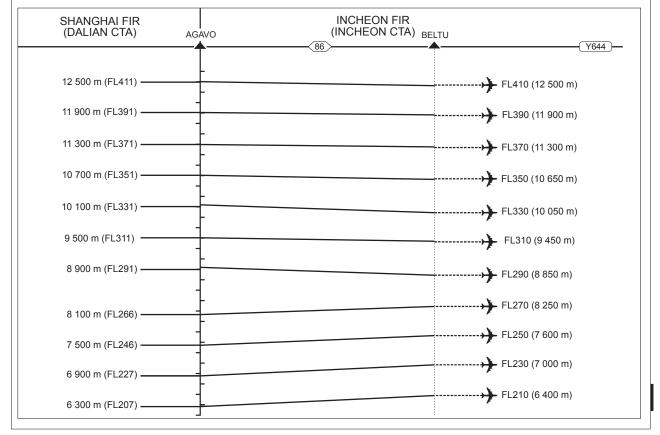
	T		Upper limits		Direct	ion of	
			Lower limits		cruising		
Route designator (RNP/RNAV) Name of significant points	VOR DI	MAG↑/↓ RDL IST	or Minimum altitude(MOCA) ft AMSL or FL	Lateral limits	Odd	- Fuen	Remarks Controlling unit channel
Coordinates 1	· · · ·	OP) 2	Airspace classification 3	NM 4	Odd	Even	Logoň address 6
SHANGHAI FIR INCHEON FIR							
G597							Daegu ACC
▲ AGAVO(FIR BDRY) 371010N 1235953E	096°			10			
	276°						FREQ: (at or below FL 295) 128.70(118.925) MHz 270.50(263.60) MHz
△ GONAV	20.0						270.50(203.00) MITZ
371048N 1242453E	066° 246°						FREQ: (above FL 295) 132.80(120.525) MHz 290.60(335.45) MHz
▲ DANTI	13.8 066°		UNL				, ,
371806N 1243929E	247°		FL 150 (1 500)				Westbound(SEL-AGAVO) FL 400, FL 380, FL 360,
△ ANSIM	10.0		Class A, D, G				FL 340, FL 320, FL 300,
372323N 1245009E	097° 277°						FL 280, FL 260, FL 240, FL 220, FL 200.
▲ BINIL	19.0						* Note G597 is only for
372349N 1251359E	097°						Non-RNAV aircraft.
A NORW	278°						Any aircraft approved for RNAV operations should
▲ NOPIK 372412N 1253905E	20.0		UNL				use Y697.
372412IN 1233903E	098° 278°		8 000				Only flying westbound
^ COCET	41.0		(2 200)				from SEL to AGAVO on G597 is authorized.
△ GOGET 372442N 1263036E	098°		Class A, D, G UNL				(Unless otherwise
	278°		8 000				assigned by ATC, flying eastbound in this airway
△ ANYANG VORTAC(SEL)	20.0		(3 400) Class A, D, G			<b>^</b>	shall not be used.)
372449N 1265542E	087°		UNL		<b>1</b>	1	Aircraft flying eastbound
	087° 267°		7 500 (3 500)				from AGAVO to SEL on G597 shall get PPR 24
△ EGOBA	22.0		Class A, D, G				hours before from Incheon ACC.
372915N 1272246E	087° 267°		UNL				
			7 500 (5 100)				REF. ENR 3.1-9 for the detailed altitude
▲ KARBU	13.9		Class A, D, G				conversion procedures.
373159N 1273952E	087°		UNL 7 500				Daegu ACC
	268°	(44/45)	(5 600)				Buogu Acc
▲ TORUS	22.9	-	Class A, D, G				FREQ:(at or below FL 295)
373625N 1280807E	087° 268°		UNL 7 500				134.175(123.65) MHz
A DUZCI	21.8		(7 500)				272.40(233.60) MHz
▲ BIKSI 374032N 1283504E		1	Class A, D, G UNL				FREQ: (above FL 295)
	088° 268°		7 500				122.250(125.925) MHz 263.350(263.85) MHz
△ GANGWON VORTAC(KAE)	8.2		(7 100) Class A, D, G				Only flying westbound
374203N 1284514E	130°	1	UNL				from LANAT to KAE on
	310°		8 000 (7 100)				G597 shall get 24 HR PPR from Daegu ACC.
▲ PILIT	30.0		Class A, D, G				
372631N 1291731E	130°		UNL 9 000				Airspace Classification refer to ENR 3.1-1
	310°		(3 100)				
▲ NIMUS	27.5		Class A, D, G				
371210N 1294656E	130° 311°						
△ AGSUS	50.8		UNL				
364521N 1304044E	131°		9 000 (1 500)				
A LANAT/EID RODV\	311°		Class A, D and G				
▲ LANAT(FIR BDRY) 362224N 1312542E	42.9					1	
			1	1		<u> </u>	
INCHEON FIR							
FUKUOKA FIR							

Change: Information of frequencies.

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# **INTENTIONALLY**

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### 3.1.2 DOMESTIC ATS ROUTES

Route designator	Track MAG↑/↓	Upper limits Lower limits or Minimum altitude(MOCA)		Direct cruising	ion of levels	
(RNP/RNAV) Name of significant points Coordinates	VOR RDL DIST (COP)	ft AMSL or FL  Airspace classification	Lateral limits NM	Odd	Even	Remarks Controlling unit channel Logon address
1	2	3	4	5		6
V11 ▲ PILIT						Daegu ACC
372631N 1291731E  KAE R 128/30 DME  KPO R 001/88 DME	183° 003°	UNL	8		<b>+</b>	FREQ: (at or below FL 295) 134.175(123.65) MHz 272.40(233.60) MHz
RPO R 001/86 DIME		9 000 (7 000) Class A, D, G				FREQ: (above FL 295) 122.250(125.925) MHz 263.350(263.85) MHz
▲ NOBUT 370715N 1291957E	19.3					1. 11 000 ft to FL 240, at or above FL 280 will be blocked.
	183° 003°	UNL 9 000 (6 400)				At or above 11 000 ft, required 15 days PPR from Air Traffic Management Office.
	47.2	Class A, D, G				Airspace Classification refer to ENR 3.1-1
▲ LOSTO 362016N 1292548E	183° 003°	UNL 9 000 (3 300)				Daegu ACC FREQ: 120.575(119.375,
055000N 4000005	21.7 213°	Class A, D, G UNL				119.325, 134.375) MHz 254.70(335.75) MHz
	032°	9 000 (4 200)				1. 11 000 ft to FL 240, at or above FL 280 will be blocked.
▲ APARU 352442N 1290932E	37.2 213° 032°	Class A, D, G  UNL  9 000 (4 400)				At or above 11 000 ft, required 15 days PPR from Air Traffic Management Office.
△ BUSAN VORTAC(PSN) 350721N 1285958E	19.0	Class A, D, G		<u> </u>		Airspace Classification refer to ENR 3.1-1

Change: Information of frequencies.

350734N 1264844E  072° 253° 54.7  IGDOK 353104N 1274907E  DALSEONG VORTAC(TGU) 354835N 1283527E  10 000 9 000 (8 600) Class D  10 10 10 12 263.90(272.75) MHz 120.725(128.30) MHz 263.90(272.75) MHz 120.725(128.30) MHz 263.90(272.75) MHz 120.725(128.30) MHz 263.90(272.75) MHz 120.725(128.30) MHz 263.90(272.75) MHz 123.725(124.50) MHz 239.25(275.40) MHz Airspace Classification refer to ENR 3.1-1  Daegu ACC FREQ: 128.175(128.325) MHz 335.50(275.20) MHz Airspace Classification				Upper limits Lower limits			ion of levels	
V543 DALSU 350731N 1264206E         097" 277"         UNL 8 000 (2 800)         10         Incheon ACC           A GWANGJU VOR(KWA) 350734N 1264844E         097" 277"         UNL 8 000 (2 000)         10         Image: Class AD G Section 1 (2 6 1 6 1 6 2 6 1 1 1 1 1 1 1 1 1 1 1 1	(RNP/RNAV) Name of significant points	VOR D	R RDL	Minimum altitude(MOCA) ft AMSL or FL	limits	Odd	Even	Controlling unit channel
DALSU 350731N 1264206E    Dar   Dals   Dals	·		2	3	4		5	6
350731N 1264206E								
Section   Sec				1.15.11	10	I.I.		landa en AGG
Company   Comp	330731N 1204200E				10	*		Incheon ACC
SAMUL   263 90(272.75) MHz		277°						FREQ: (at or below FL 255)
350734N 1264844E  997° 2777  (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2320) (2320)2(27.5)MHz 239.25(275.40)MHz 239.25(275	↑ GWANGJII VOR(KWA)	5.4		Class A, D, G				120.725(128.30) MHz
SAMUL   2.6   Class A, D, G								263.90(272.75) MHz
A SAMUL   2.6   Class A. D. G   Class A. D.								FREQ : (above FL 255)
A SANUL         1265154E         097° 278°         UNL 8000 (5 200)         Alrspace Classification refer to ENR 3.1-1           A TEDAN 350744N 1271852E         098° 278°         UNL 8000 (6 200)         Daegu ACC           A ANUBA 350746N 1273523E         098° 278° (2583)         UNL 288 A. D. G         128.175(128.325) MHz 33.55(275.20) MHz 33.55(275.20) MHz 33.55(275.20) MHz 33.55(275.20) MHz 33.55(275.20) MHz 33.55(275.20) MHz 32.55(275.20) MHz 32.5				(2 000)				123.725(124.50) MHz
A         TEDAN         22.1         B 000 (5 200)         Refer to ENR 3.1-1         Daegu ACC         FREQ :         122.175(128.325) MHz         350736N 128.175(128.325) MHz         ASAPAM         ANUS         ANUS         ANUS         ANUS         ANUS         ANUS         ANUS         Class A. D. G         UNL         ANUS         ANUS </td <td>△ SAMUL</td> <td>2.6</td> <td></td> <td>Class A, D, G</td> <td></td> <td></td> <td></td> <td>239.25(275.40) MHz</td>	△ SAMUL	2.6		Class A, D, G				239.25(275.40) MHz
TEDAN   350744N 1271852E   098°   278°   098°   278°   098°   278°   098°   278°   098°   278°   098°   278°   098°   278°   098°   278°   098°   279°   080000   080000   080000   080000   080000   08000	350736N 1265154E	0079		UNL				Airspace Classification
TEDAN   350744N 1271852E   098*   278*				8 000				
TEDAN 350744N 1271852E  098* 278*  ANUBA 350746N 1273523E  098* 279*  ASAPDI 350737N 1282952E  098* 278*  ANKUS 350736N 1283147E  099* 279*  ANKUS 350730N 1284616E  099* 279*  ABUSAN VORTAC(PSN) 350721N 1285958E   V547  GWANGJU VOR(KWA) 350734N 1264844E  AIGDOK 353104N 1274907E  DALSEONG VORTAC(TGU) 354383N 128357E  Class A, D, G  UNL 8000 (3 800) Class A, D, G  UNL 8000 (5 800) Class A, D, G  Trefer to ENR 3.1-1  Total Class A, D, G  To				(5 200)				
Sample	▲ TEDAN	22.1		Class A, D, G				
ANUBA   13.5	350744N 1271852E	0000		UNL				
ANUBA 350746N 1273523E  098° 279°  44.7  SAPDI 350737N 1282952E  098° 278°  ANKUS 350736N 1283147E  099° 279°  ANKUS 350730N 1284616E  099° 279°  ANKUS 350730N 1285958E   V547  GWANGJU VOR(KWA) 350734N 1264844E  072° 253° 54.7  AIGDOK 353104N 1274907E  DALSEONG VORTAC(TGU) 354835N 1283527E   Class A D, G  UNL 8 0000 (25/83)  Class A D, G  UNL 8 0000 (3 800)  Class A, D, G  UNL 8 0000 (3 800)  Therefor to ENR 3.1-1  Class D  Airspace Classification refer to ENR				8 000				D 400
ANUBA 350746N 1273523E  □98° 279° 44.7  A SAPDI 350737N 1282952E □98° 278° 098° 278° 098° 278° 098° 278° 098° 278° 098° 278° 098° 278° 098° 278° 098° 278° 099° 279° 099° 279° 099° 279° 099° 279° 099° 279° 099° 279° 099° 279° 099° 279° 099° 279° 099° 279° 099° 279° 099° 279° 099° 279° 099° 279° 099° 279° 099° 279° 090° 0900 0900 0900 0900 0900 0900 0				(8 000)				Daegu ACC
A SAPDI   350737N 1282952E   25/83)   8 000 (8 000)   335.50(275.20) MHz   Airspace Classification refer to ENR 3.1-1     A SARAM   1.6   Class A, D, G   3800)	△ ANUBA	13.5		Class A, D, G				FREQ:
A SAPDI   350737N 1282952E   279°   (2583)   8 0000   (8 0000)   (2 lass A, D, G   278°)	350746N 1273523E	008°		UNL				128.175(128.325) MHz
▲ SAPDI 350737N 1282952E       44.7       Class A, D, G         UNL 8 000 (3 800)       UNL 8 000 (3 800)         A SARAM 350736N 1283147E       1.6       Class A, D, G         UNL 8 000 (4 000)       UNL 8 000 (4 000)         ANKUS 350730N 1284616E       11.9       Class A, D, G         UNL 8 000 (3 500)       0.00         BUSAN VORTAC(PSN) 350721N 1285958E       11.2       Class A, D, G         V547 △ GWANGJU VOR(KWA) 350734N 1264844E       10 000 9000 (8 600)       10 000 9000 (8 600)       FREQ: (at or below FL 255) 120.725(128.30) MHz 263.90(272.75) MHz         A IGDOK 353104N 1274907E       10 000 900 254°       10 000 9000 9000 10 000 9000 10 000 9000       FREQ: (above FL 255) 123.725(124.50) MHz 239.25(275.40) MHz 239.25(275.40) MHz 239.25(275.40) MHz 239.25(275.20) MHz         A DALSEONG VORTAC(TGU) 			(05/00)					335.50(275.20) MHz
A SAPDI  350737N 1282952E  998° 278°  098° 278°  1.6  Class A, D, G  UNL 8 000 (3 800) (3 800) (3 800) (4 000)  ANKUS 350730N 1284616E  999° 279°  A SARAM 350730N 1284616E  999° 279°  0099° 279°  0090° 350730N 1284616E  999° 279°  0090° 350730N 1284616E  999° 279°  0000 0000 0000 0000 0000 0000 0000			(23/03)	(8 000)				Airsnace Classification
SARAM   1.6   Class A, D, G	▲ SAPDI	44./		Class A, D, G				
A SARAM   1.6   Class A, D, G	350737N 1282952E	098°						
ANKUS 350736N 1283147E  099° 279°  ANKUS 350730N 1284616E  099° 279°  ANKUS 350730N 1284616E  099° 279°  ANKUS 350731N 1285958E   DILL 8 000 (3 500) (3 500)  Class A, D, G  UNL 8 000 (3 500)  Class A, D, G  ANKUS 350721N 1285958E   Incheon ACC  FREQ: (at or below FL 255) 120.725(128.30) MHz 263.90(272.75) MHz  FREQ: (at or below FL 255) 120.725(128.30) MHz 263.90(272.75) MHz  FREQ: (at or below FL 255) 120.725(128.30) MHz 263.90(272.75) MHz  FREQ: (at or below FL 255) 120.725(128.30) MHz 263.90(272.75) MHz  Airspace Classification refer to ENR 3.1-1  Daegu ACC FREQ: (above FL 255) 123.725(124.50) MHz 239.25(275.40) MHz 239.25(275.40) MHz 355835N 1283527E  Airspace Classification 1 Daegu ACC FREQ: (above FL 255) 123.725(128.325) MHz 335.50(275.20) MHz 34irspace Classification				8 000				
ANKUS 350730N 1284616E  099° 279°  ANKUS 350730N 1284616E  099° 279°  LINL 8 0000 (3 500)  ABUSAN VORTAC(PSN) 350721N 1285958E   V547  GWANGJU VOR(KWA) 350734N 1264844E  072° 253° 54.7  A IGDOK 353104N 1274907E  DALSEONG VORTAC(TGU) 354835N 1283527E    UNL 8 0000 (3 500)   11.2   Class D   10 000   9 000 (8 600)   Class D   10 000   9 000 (5 000)   41.6   Class D   1 0 000   9 000 (5 000)   41.6   Class D   1 0 000   1 0 000   9 000   1 0 000   1 0 000   9 000   1 0 000   9 000   1 0 000   9 000   1 0 000   1 0 000   9 000   1 0 000   1								
ANKUS 350730N 1284616E  Description  ANKUS 350730N 1284616E  Description  ANKUS 350730N 1284616E  Description  Description  ANKUS 350730N 1284616E  Description  Descrip		1.5						
ANKUS 350730N 1284616E  099° 279°    Class A, D, G	350736N 1283147E	099°						
ANKUS   350730N 1284616E   11.9   Class A, D, G   UNL   8 0000   (3 500)     ANKUS   350730N 1284616E   099°   279°								
ANKUS 350730N 1284616E  099° 279°    UNL   8 000 (3 500)				` ′				
BUSAN VORTAC(PSN)   350721N 1285958E   11.2   Class A, D, G   ↑				Ciass A, D, G				
A   BUSAN VORTAC(PSN)   11.2   Class A, D, G   T	350730N 1284616E	099°						
A BUSAN VORTAC(PSN) 350721N 1285958E       11.2       Class A, D, G       ↑         V547         A GWANGJU VOR(KWA) 350734N 1264844E       072° 253°       10 000 9 000 (8 600)       10 10 10 10 10 10 10 10 10 10 10 10 10 1				8 000				
V547	. BUGAN VGBT - :	11.2		` ′				
V547         △ GWANGJU VOR(KWA)       Incheon ACC         350734N 1264844E       Table of the property of th				Ciass A, D, G			1	
	350721N 1285958E							
	V547							Incheon ACC
350734N 1264844E    10   10   10   10   12   12   12   12								
10 000   263.90(272.75) MHz   279.25(124.50) MHz   239.25(275.40) MHz	` '				10	Ţ		
DALSEONG VORTAC(TGU)   354835N 1283527E     D     10 000     9 000     9 000     9 000     10 000     9 000	000704N 1204044E				10	•		
253°   9 000     FREQ : (above FL 255)   123.725(124.50) MHz   239.25(275.40) MHz   239.25(275.40) MHz   239.25(275.40) MHz   Airspace Classification refer to ENR 3.1-1		072°		10 000				, ,
54.7 (48/48) Class D  Airspace Classification refer to ENR 3.1-1  Daegu ACC  FREQ: 128.175(128.325) MHz  Airspace Classification refer to ENR 3.1-1  Daegu ACC  FREQ: 128.175(128.325) MHz  354835N 1283527E  Airspace Classification refer to ENR 3.1-1  Airspace Classification refer to ENR 3.1-1  Airspace Classification  ↑ Airspace Classification								FREQ: (above FL 255)
▲ IGDOK       10 000       Airspace Classification refer to ENR 3.1-1         353104N 1274907E       073° 254°       10 000 9 000 (5 000)       Daegu ACC         FREQ: 128.175(128.325) MHz 354835N 1283527E       128.175(128.325) MHz 335.50(275.20) MHz Airspace Classification		E4.7		· · · · · · · · · · · · · · · · · · ·				
▲ IGDOK       10 000       Palspace Classification refer to ENR 3.1-1         353104N 1274907E       073° 254°       10 000 9 000 (5 000)       Daegu ACC         FREQ: 128.175(128.325) MHz 354835N 1283527E       1.6       Class D       ↑         Airspace Classification       Airspace Classification		34./	(48/48)	Class D				
353104N 1274907E	▲ IGDOK		( ) ( )					
DALSEONG VORTAC(TGU)   41.6   Class D   ↑   Airspace Classification   Airspace Classification   15 000		0730		10 000				
△ DALSEONG VORTAC(TGU)  354835N 1283527E   (5 000)  (15 000)  (128.175(128.325) MHz  335.50(275.20) MHz  Airspace Classification								
△ DALSEONG VORTAC(TGU)         41.6         Class D         ↑         335.50(275.20) MHz           354835N 1283527E         Airspace Classification								
354835N 1283527E Airspace Classification	△ DALSEONG VORTAC(TGU)	41.6		Class D			<b>↑</b>	
						1	· •	
								refer to ENR 3.1-1

Change: Information of controlling unit and frequencies.

OFFICE OF CIVIL AVIATION AIRAC AIP AMDT 11/23

Route designator (RNP/RNAV) Name of significant points Coordinates	VOR D	MAG↑/↓ RDL IST OP)	Upper limits Lower limits or Minimum altitude(MOCA) ft AMSL or FL Airspace classification	Lateral limits NM		ion of g levels Even	Remarks Controlling unit channel Logon address
1		2	3	4	į.	5	6
V549 △ GUNSAN VORTAC(KUZ) 355437N 1263641E	101° 281°			10	<b> </b>		Incheon ACC FREQ:(at or below FL 255)
<ul> <li>△ ELPOS         355410N 1264707E</li> <li>△ RINBO         355352N 1265349E</li> </ul>	8.5 101° 281° 5.5 101° 282°	(40(49)	10 000 7 000 (1 800) Class D				126.175(134.375) MHz 317.85(335.55) MHz FREQ: (above FL 255) 132.15(123.55) MHz 263.15(272.60) MHz Airspace Classification refer to ENR 3.1-1
△ MELES 355251N 1271542E △ OPEDA 355149N 1273652E	17.8 102° 282° 17.2 102° 282°	(49/48)	(3 500) Class D 10 000 7 000 (5 000) Class D 10 000				Telef to LIVIX 3.1-1
△ DALSEONG VORTAC(TGU) 354835N 1283527E			7 000 (6 600) Class D				Daegu ACC FREQ: 125.375(125.775, 124.575) MHz 234.15(317.35, 335.50) MHz
▲ LAPAL 355413N 1290452E  △ POHANG VORTAC(KPO)	24.6 085° 265° 19.7		6 000 (5 400) Class A, D, G			<u></u>	Airspace Classification refer to ENR 3.1-1  TGU is used between TGU and KPO.
355838N 1292828E  W45  △ GWANGJU TACAN(KWJ) 350723N 1264810E				10	<b> </b>		Incheon ACC FREQ: (at or below FL 255) 120.725(128.30) MHz
	097° 278° 38.4		UNL 8 000 (8 000) Class A, D, G				263.90(272.75) MHz FREQ: (above FL 255) 123.725(124.50) MHz 239.25(275.40) MHz Between RIMPO and
△ RIMPO 350739N 1273502E	098° 278°	(23/85)	UNL 8 000 (8 000)				RUNIT 11 000 ft AMSL to FL 190 VMC-IMC use for training purpose.  Airspace Classification refer to ENR 3.1-1
▲ RUNIT 350734N 1282952E	45.1 098° 279°		Class A, D, G  UNL 8 000 (4 000)				Daegu ACC FREQ: 128.175(128.325) MHz 335.50(275.20) MHz
△ BUSAN VORTAC(PSN) 350721N 1285958E	24.7		Class A, D, G			<u> </u>	Between RIMPO and RUNIT 11 000 ft AMSL to FL 190 VMC-IMC use for training purpose.

		Upper limits Lower limits or		Direction of cruising levels		
Route designator (RNP/RNAV) Name of significant points Coordinates	Track MAG↑/↓ VOR RDL DIST (COP)	Minimum altitude(MOCA) ft AMSL or FL Airspace classification	Lateral limits NM	Odd	Even	Remarks Controlling unit channel Logon address
1	2	3	4		5	6
W61  △ SONGTAN VORTAC(SOT)						Daegu ACC
370540N 1270154E	316° 136°	8 000 (2 400)	10		<b>↓</b>	FREQ: (at or below FL 295) 128.70(118.925) MHz 270.50(263.60) MHz
▲ MONSI 371247N 1265015E	11.7 316° 136°	Class A, D, G  UNL  8 000				FREQ: (above FL 295) 132.80(120.525) MHz 290.60(335.45) MHz
△ GOGET 372442N 1263036E	19.7	(3 200) Class A, D, G		<b>↑</b>		Airspace Classification refer to ENR 3.1-1
W62  △ SONGTAN VORTAC(SOT)						Daegu ACC
370540N 1270154E	044° 224°	UNL FL 140 (4 600)	10	<b>\</b>		FREQ: (at or below FL 295) 128.70(118.925) MHz 270.50(263.60) MHz FREQ: (above FL 295)
△ EGOBA 372915N 1272246E	28.8	Class A, D, G			1	132.80(120.525) MHz 290.60(335.45) MHz
						Airspace Classification refer to ENR 3.1-1
W526  △ DALSEONG VORTAC(TGU)						
354835N 1283527E	192° 012°	UNL 5 000 (4 900)	10	<b>1</b>	Daegu ACC	
▲ MASTA 352847N 1283340E	19.8 192°	Class A, D, G UNL	-			125.375(125.775, 124.575) MHz 234.15(317.35, 335.50) MHz
	012°	5 000 (3 800)				
▲ SARAM	21.2	Class A, D, G				Airspace Classification
350736N 1283147E	192° 012°	5 000 (3 200)			r	refer to ENR 3.1-1
▲ TOPAX 344555N 1282952E	21.7	Class A, D, G		<b>↑</b>		