ENR 3. ATS ROUTES

ENR 3.1 CONVENTIONAL NAVIGATION ROUTES

3.1.1 INTERNATIONAL ATS ROUTES

				Upper limits Lower limits			ion of levels	
	Route designator (RNP/RNAV) 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
	1		2	3	4	;	5	6
	YANG VORTAC(SEL)			I		T .		Daegu ACC
3724	449N 1265542E	174° 354°		UNL	10	 		FREQ: (at or below FL 295) 128.70(118.925) MHz 270.50(263.60) MHz
△ POL 371:	_EG 249N 1265935E	12.4 174° 354°		4 500 (3 400) Class A, D, G				FREQ: (above FL 295) 132.80(120.525) MHz 290.60(335.45) MHz
1	NGTAN VORTAC(SOT) 540N 1270154E	7.4 144°						Airspace Classification Class A : Above FL 200 - FL 600 Class D :
▲ OSF	POT	324° 21.6		UNL 8 000 (3 300)				MEA - FL 200 Class G : Above FL 600 - UNL
3650	018N 1272055E	144° 324°		Class A, D, G				Daegu ACC
▲ VAS 3642	SLI 252N 1273003E	10.4 144° 324°		UNL 8 000				FREQ: 125.375(125.775, 124.575) MHz 234.15(317.35,
▲ MAH	KDU 712N 1274909E	21.9	(69/39)	(4 300) Class A, D, G UNL				335.50) MHz
		144° 324° 14.6		8 000 (4 400)				Airspace Classification Class A : Above FL 200 - FL 600
▲ BITU 3610	UX 645N 1280148E	144° 324°		Class A, D, G UNL 10 000 (5 200)				Class D: MEA - FL 200 Class G: Above FL 600 - UNL
I	_SEONG VORTAC(TGU)	39.2		Class A, D, G				
	835N 1283527E	162° 342°		UNL				
▲ KAL 3530	012N 1284626E	20.4 162° 342°		6 000 (5 400) Class A, D, G				
△ BUS	SAN VORTAC(PSN)	25.4						
350	721N 1285958E	162° 342°		UNL 4 000 (3 000)				
I	ELA(FIR BDRY) 323N 1291400E	26.6		Class A, D, G			<u> </u>	
	HEON FIR							
L FUR	KUOKA FIR							

Change : Information of title for ENR 3.1(lower ATS routes \rightarrow conventional navigation routes).



						1		
				per limits wer limits			ion of levels	
Route designator (RNP/RNAV)	Track	MAG↑/↓ R RDL		or altitude(MOCA)	Lateral	,	,	Remarks
Name of significant points		IST	ft Al	MSL or `FL (limits		_	Controlling unit channel
Coordinates	(C	OP) 2	Airspace	e classification 3	NM 4	Odd	Even	Logon address 6
A586*				3	7		,	, , ,
△ TENAS								
373820N 1313427E	227° 047°			UNL	10		1	Daegu ACC
				310(4 600)				FREQ :
△ AGSUS 364521N 1304044E	68.1		Cla	ass A, G				122.250(125.925) MHz
304321N 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°			acc 71, C				Daegu ACC
▲ BULGA	28.1							FREQ :
355609N 1294924E	228° 048°			UNL 310(2 900)				120.575(119.375,
▲ BEDOM	40.2			ass A, G				119.325, 134.375) MHz 254.70(335.75) MHz
352513N 1291754E	228°			UNL				254.70(555.75) WII 12
	047°			310(4 000)				Airspace Classification
△ BUSAN VORTAC(PSN)	23.1		Cla	ass A, G				refer to ENR 3.1-1
350721N 1285958E	237°			10 000				Daegu ACC
	057°			8 000(3 500) Class D				FREQ :
△ OMOTU	10.4			Class D				125.375(125.775,
350033N 1285022E	0070			40.000				124.575) MHz 234.15(317.35,
	237° 057°			10 000 8 000(3 200)				335.50) MHz
	22.3			Class D				Airspace Classification
▲ TOPAX								refer to ENR 3.1-1
344555N 1282952E	237° 057°			10 000				Daegu ACC
	46.4			8 000(2 800) Class D				EDEO.
▲ GOSBO 341517N 1274734E		(=0 (=0)	UNL**	Class D				FREQ: 128.175(128.325) MHz
341317N 1274734E	237° 056°	(79/78)	11 000	10 000				335.50(275.20) MHz
	30.7			8 000(2 000) Class D				Airspace Classification
▲ MAKET	30.7			Class D				refer to ENR 3.1-1
335452N 1271953E	236° 056°			10 000				Incheon ACC
A A TINIA	17.3			8 000(1 500) Class D				FREQ :
△ ATINA 334320N 1270423E	236°			10 000				124.525(132.425) MHz
001020H 1210720L	056°			8 000(1 500)				255.40(233.50,
△ MANOL	10.3			Class D				348.10) MHz
333629N 1265514E	235° 055°			10 000				Airspace Classification
A 15 111 VODTAG(0 !! !)				9 000(8 700) Class D				refer to ENR 3.1-1
△ JEJU VORTAC(CJU) 332305N 1263727E	20.0 169°							
332303IN 1203727E	349°		9.0	UNL 00(8 700)				* The cruising levels
▲ TOSAN	24.0			s A, D, G				from CJU to RUGMA are even levels due
330012N 1264619E	169°			UNL				to operational reasons.
	349°			00(1 500)				* The cruising levels
▲ RUGMA(FIR BDRY)	31.5		Clas	s A, D, G		T		from RUGMA to CJU are odd levels due to
323012N 1265753E								operational reasons.
INCHEON FIR	7							
FUKUOKA FIR	1							

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.

 ^{*} 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.

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 3	Lateral limits NM 4	Direction of cruising levels Odd Even	Remarks Controlling unit channel Logon address 6
FUKUOKA FIR INCHEON FIR A593 A ONIKU(FIR BDRY)					Incheon ACC
△ NIRAT 320354N 1260329E △ PONIK 320021N 1254659E	263° 082° 31.4 263° 083° 14.5	UNL FL 240 (1 500)	50	1	FREQ: (at or above FL 335) 133.425(132.425) MHz 234.35(234.65) MHz FREQ: (below FL 335) 125.725(132.825, 128.375) MHz 232.95(233.15) MHz Airspace Classification refer to ENR 3.1-1
▲ SADLI 314948N 1250000E ▲ LAMEN(FIR BDRY) 313636N 1240000E	082° 41.4 263° 082° 52.8	Class A, G		1	Eastbound from SADLI to ONIKU is only for Non-approval of RNAV 2. Any aircraft approved for RNAV 2 operation should use Y590.
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

△ JEJU VORTAC(CJU)						
332305N 1263727E	089° 269°	UNL 9 000 (8 700)	8	1		Incheon ACC FREQ: 124.525(132.425) MHz
▲ TAMNA	35.9	Class A, D, G				255.40(233.50, 348.10) MHz
332815N 1271953E	089° 270°	UNL 9 000 (1 500)				Airspace Classification refer to ENR 3.1-1
▲ SAMDO(FIR BDRY)	49.8	Class A, D, G			1	
333503N 1281857E						
FUKUOKA FIR						

OFFICE OF CIVIL AVIATION AIRAC AIP AMDT 11/23

_							I
			Upper limits			ion of	
			Lower limits		cruising	ieveis	
	Route designator	Track MAG↑/↓	or Minimum altitude(MOCA)				
	(RNP/RNĂV)	VOR RDL	ft AMSL or FL	Lateral			Remarks
N	Name of significant points	DIST		limits			Controlling unit channel
	Coordinates	(COP)	Airspace classification	NM	Odd	Even	Logon address
	1	2	3	4	5	5	6
	PYONGYANG FIR						
	INCHEON FIR						
	B332						
•	KANSU(FIR BDRY)						Danier ACC
	383800N 1322830E	180°		50	↓		Daegu ACC
		360°					
	544.544	40.0					FREQ:
	PALDU	40.2	UNL				122.250(125.925) MHz
	375813N 1323625E	180°	FL 200				263.350(263.85) MHz
		360°	(1 500)				
\triangle	SABET	19.9	, ,				Airspace Classification
-	373829N 1324019E	180°	Class A, G				refer to ENR 3.1-1
	5. 502011 1027013L	360°					
•	IGRAS(FIR BDRY)	19.9				<u> </u>	
	371846N 1324411E						
	INCHEON FIR						
	FUKUOKA FIR						
	B467						
	GANGWON VORTAC(KAE)						Daegu ACC
	374203N 1284514E		UNL	10			_
	3/4203N 1204314L	<u>100</u> °		10	↓		FREQ: (at or below FL 295)
		280°	8 000				134.175(123.65) MHz
			(7 100)				272.40(233.60) MHz
_	LESBU	44.3	Class A. D. C				
			Class A, D, G				FREQ : (above FL 295)
ı	374116N 1294104E	100°	UNL				122.250(125.925) MHz
ı		280°	8 000				263.350(263.85) MHz
			(1 500)				Airspace Classification
		7.8					refer to ENR 3.1-1
▲	UGOVI		Class A, D, G				TOTAL TO ENTRY 3.1-1
	374105N 1295051E	100°	UNL				
1		280°	8 000				
		200	(1 500)				
		20.1					
	BUSKO		Class A, D, G				Daegu ACC
	374033N 1301610E	100°	UNL				
		281°	8 000				FREQ:
		201	(4 600)				122.250(125.925) MHz
		62.2					1
\triangle	TENAS		Class A, D, G				263.350(263.85) MHz
	373820N 1313427E	<u>044</u> °		50			
		224°	UNL				Airspace Classification
_	MALSO	20.0	FL 200				refer to ENR 3.1-1
			(1 500)				
	375440N 1314904E	044°					
		225°	Class A, G				
•	KANSU(FIR BDRY)	53.3				↑	
_	383800N 1322830E		I			1	
	10220001						
	INCHEON FIR						
	PYONGYANG FIR						

Change: Information of B467.

OFFICE OF CIVIL AVIATION AIRAC AIP AMDT 4/24

Effective: 1600UTC 12 JUN 2024

25 JUL 2024

			Upper lim				ion of	
		ack	or Minimum altitude					
Route designator (RNP/RNAV)		G↑/↓ RDL	ft AMSL or		Lateral			Remarks
Name of significant points Coordinates		IST OP)	Airspace class	ification	limits NM	Odd	Even	Controlling unit channel Logon address
1		2	3	incation	4	- Gud		6
B576* △ ANYANG VORTAC(SEL)								Daegu ACC
372449N 1265542E	<u>174°</u>				10		1	FREQ: (at or below FL295) 128.70(118.925) MHz
△ POLEG	354° 12.4		UNL 4 500					270.50(263.60) MHz FREQ:(above FL 295)
371249N 1265935E	174°		(3 400)					132.80(120.525) MHz 290.60(335.45) MHz
	354°		Class A, D	, G				Airspace Classification
△ SONGTAN VORTAC(SOT) 370540N 1270154E	7.4 194°							refer to ENR 3.1-1 Incheon ACC
07004014 12701042	014°			(2 800)				FREQ: (at or below FL 255)
▲ OLMEN 364413N 1265928E	21.5 194°							126.175(134.375) MHz 317.85(335.55) MHz
3044 13IN 1203320L	014°		13 000	(3 600)				FREQ: (above FL 255)
▲ ENTEL 362311N 1265705E	21.1	//	7 000					132.15(123.55) MHz 263.15(272.60) MHz
JUZJI IN IZUJI UJE	194° 013°	(59/59)	Class D	(3 100)				Airspace Classification refer to ENR 3.1-1
△ RINBO	29.4	KUZ R-060/	UNL**					* Note
355352N 1265349E	<u>193°</u>	D 19.1	FL 140					B576 is only used for Non-RNAV aircraft.
	013° 22.7		Class A, D, G	(3 400)				Any aircraft approved for RNAV operations should
▲ LINTA			, ,					use Y71 ¹ 1 or Y722.
353116N 1265119E	193° 013°			(4 700)				Incheon ACC FREQ: (at or below FL 255)
\triangle GWANGJU VOR(KWA)	23.8			(,				120.725(128.30) MHz 263.90(272.75) MHz
350734N 1264844E	<u>193°</u>		13 000					FREQ : (above FL 255)
	012°		8 000					123.725(124.50) MHz ´ 239.25(275.40) MHz
	52.5		(4 700) Class D	UNL**				Airspace Classification
▲ IPDAS 341515N 1264301E		(52/52)	13 000	FL 140				refer to ENR 3.1-1 Incheon ACC
	193° 012°		9 000					FREQ:
	52.3		(8 700)					124.525(132.425) MHz 255.40(233.50, 348.10) MHz
△ JEJU VORTAC(CJU)			Class D					Airspace Classification refer to ENR 3.1-1
332305N 1263727E	207°		9 000	•				* Note
	027° 24.3		(8 700)					Any aircraft planning to operate above FL 140
▲ SOSDO 330012N 1262735E			Class A, D	, G				between SOT and CJU mus coordinate with Incheon
330012IN 1202733L								ACC before flight planning.
	207° 027°							** Note Any southbound aircraft planning
	29.5							to operate below FL 320 between CJU and ATOTI
△ SAMLO								must use Y711 until BONSC then use Z86 to ATOTI.
323223N 1261536E	207° 027°		UNL					Incheon ACC
△ NIRAT	30.2		8 000					FREQ: (at or above FL 335) 133.425(132.425) MHz
320354N 1260329E	207°		(1 500)					234.35(234.65) MHz
△ ELGEP	027° 18.1		Class A, D	, G				FREQ: (below FL 335) 125.725(132.825, 128.375) MHz
314653N 1255617E	207°							232.95(233.15) MHz ´
▲ TESIM	027° 12.1							Airspace Classification refer to ENR 3.1-1
313526N 1255128E	<u>207°</u>							
▲ ATOTI/FID BDDV\	027° 100.9							
▲ ATOTI(FIR BDRY) 300013N 1251154E	100.9					<u> </u>		
INCHEON FIR								
FUKUOKA FIR	44 818 4	from: 1/1	MA and FE NA	from CO	T hala:	. 10.000	£	I request to sentualize !
NAVAID(DME) GAP : Between required			information.	1011 30	, below	10 000	IL AIVIO	L, request to controller l

		Upper limits			ion of	
		Lower limits		cruising	levels	
		or				
Route designator	Track MAG↑/↓	Minimum altitude(MOCA)				
(RNP/RNAV)	VOR RDL	ft AMSL or FL	Lateral			Remarks
Name of significant points	DIST		limits			Controlling unit channel
Coordinates	(COP)	Airspace classification	NM	Odd	Even	Controlling unit channel Logon address
1	2	3	4		5	6
G339						
△ BUSAN VORTAC(PSN)						
350721N 1285958E			8	1		Daegu ACC
333.22333332	4.400			*		
	149° 330°	UNL				FREQ:
	330°	10 000				125.375(125.775,
		(3 400)				124.575) MHz
						234.15(317.35,
	25.6	Class A, D, G				335.50) MHz
▲ INVOK(FIR BDRY)					↑	333.30) IVII 12
344719N 1291923E		1		l		A:
32010202						Airspace Classification
INCLIEON FIR						refer to ENR 3.1-1
INCHEON FIR						
FUKUOKA FIR						

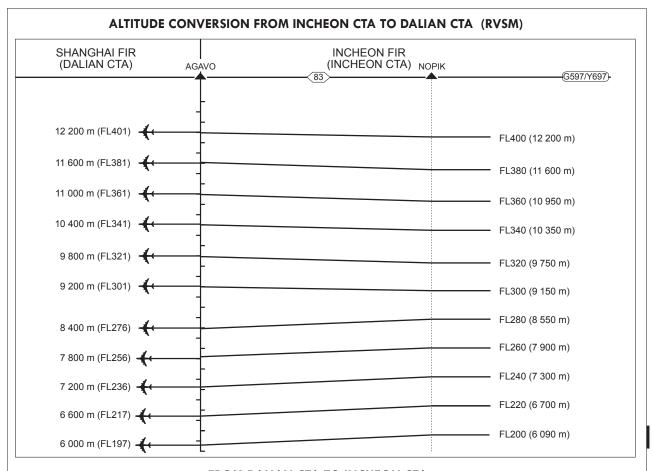
			Upper limits Lower limits or			tion of	
Route designator (RNP/RNAV) Name of significant po Coordinates	oints VC	MAG↑/↓ PR RDL DIST COP)	Minimum altitude(MOCA) ft AMSL or FL Airspace classification	Lateral limits NM	Odd	Even	Remarks Controlling unit channel Logon address
G585		2	3	4		5	Daegu ACC
△ ANYANG VORTAC(S	SEL)						
372449N 1265542E	133°			8	↓		FREQ: (at or below FL 295) 128.70(118.925) MHz 270.50(263.60) MHz
△ KALMA	313° 10.7		UNL 8.000				FREQ: (above FL 295) 132.80(120.525) MHz 290.60(335.45) MHz
371845N 1270645E	133° 313° 19.3		8 000 (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 370745N 1272637E							Aircraft flying eastbound from SEL to KPO at or above 11 000 ft on G585 shall get PPR 24 hours before from Daegu ACC.
	133° 313° 11.5	(50/32)	UNL 8 000 (3 600) Class A, D, G				No PPR is needed at or below 10 000 ft. Airspace Classification refer to ENR 3.1-1
A OLUKDO							
▲ GUKDO 370111N 1273823E	133° 313°		UNL 8 000 (3 700)				Daegu ACC
△ ENSAL	9.2		Class A, D, G				FREQ :
365554N 1274747E	133° 314°		UNL 8 000 (4 000)				125.375(125.775, 124.575) MHz 234.15(317.35, 335.50) MHz
△ BASEM	9.2	_	Class A, D, G				,
365037N 1275710E	134° 314°		UNL 8 000 (5 000)				Only flying westbound from KPO to SEL on G585 is authorized except ACFT departing
▲ BIGOB 364325N 1280952E	12.5	-	Class A, D, G UNL				from RKTY or RKTI.
30432014 12003322	134° 314°		8 000 (4 900)				Aircraft flying eastbound
△ YECHEON VOR(CUI	N) 9.5		Class A, D, G				from SEL to KPO at or above 11 000 ft on
363755N 1281931E	133° 313°		UNL 8 000 (3 900)				G585 shall get PPR 24 hours before from Incheon/Daegu ACC.
△ ELAPI	30.8	(34/34)	Class A, D, G UNL				No PPR is needed at
362014N 1285051E	133° 314°		8 000				or below 10 000 ft.
A DOLLANG VODTAGE			(5 000) Class A, D, G				Airspace Classification refer to ENR 3.1-1
△ POHANG VORTAC(I 355838N 1292828E	(PO) 37.3 107°		UNL				
3333311 12020202	287°		8 000				
▲ BULGA	17.2		(3 500) Class A, D, G				
355609N 1294924E	107° 287°		UNL				
			8 000 (1 500)				
▲ SAPRA(FIR BDRY)	44.4		Class A, D, G			<u> </u>	
354926N 1304325E							
INCHEON FIF	{						
FUKUOKA FIF							

Republic of Rolea							2 IVIA 1 2024
			Upper limits Lower limits			tion of	
Route designator (RNP/RNAV)	Track M.		or Minimum altitude(MOCA) ft AMSL or FL	Lateral			Remarks
Name of significant points Coordinates	DIS (CC	ST	Airspace classification	limits NM	Odd	Even	Controlling unit channel Logon address
1 SHANGHAI FIR	2		3	4		5	6
INCHEON FIR G597							Daegu ACC
▲ AGAVO(FIR BDRY) 371000N 1240000E				10			Daegu ACC
37 1000N 1240000E	096° 276°			10			FREQ: (at or below FL 295) 128.70(118.925) MHz
△ GONAV	19.9						270.50(263.60) MHz
371048N 1242453E	066° 246°						FREQ: (above FL 295) 132.80(120.525) MHz
▲ DANTI	13.8		UNL				290.60(335.45) MHz
371806N 1243929E	066° 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, FL 280, FL 260, FL 240,
372323N 1245009E	097° 277°						FL 220, FL 200.
▲ BINIL 372349N 1251359E	19.0 097°						* Note G597 is only for Non-RNAV aircraft.
	278°						Any aircraft approved for RNAV operations should
▲ NOPIK 372412N 1253905E	20.0 098°		UNL				use Y697.
	278°		8 000 (2 200)				Only flying westbound from SEL to AGAVO on
△ GOGET 372442N 1263036E	41.0 098°		Class A, D, G UNL				G597 is authorized. (Unless otherwise
01211211 12000002	278°		8 000 (3 400)				assigned by ATC, flying eastbound in this airway shall not be used.)
△ ANYANG VORTAC(SEL) 372449N 1265542E	20.0		Class A, D, G UNL			1	Aircraft flying eastbound
372449N 1203342E	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				REF. ENR 3.1-9 for the
▲ KARBU	13.9		(5 100) Class A, D, G				detailed altitude conversion procedures.
373159N 1273952E	087° 268°	(44/45)	UNL 7 500				Daegu ACC
▲ TORUS	22.9	(44/43)	(5 600) Class A, D, G				
373625N 1280807E	088° 268°		UNL 7 500				FREQ: (at or below FL 295) 134.175(123.65) MHz
▲ BIKSI	21.8		(7 500) Class A, D, G				272.40(233.60) MHz
374032N 1283504E	088° 268°		UNL 7 500				FREQ: (above FL 295) 122.250(125.925) MHz
△ GANGWON VORTAC(KAE)	8.2		(7 100) Class A, D, G				263.350(263.85) MHz Only flying westbound
374203N 1284514E	130°		UNL 8 000				from LANAT to KAE on G597 shall get 24 HR
 ▲ PILIT	310° 30.0		(7 100) Class A, D, G				PPR from Daegu ACC.
372631N 1291731E	130°		UNL				Airspace Classification refer to ENR 3.1-1
A FONEC	310° 31.2		9 000 (3 100)				
▲ ESNEG 371014N 1295051E	130° 311°		Class A, D, G				
△ AGSUS	311° 47.1		UNL				
364521N 1304044E	131° 311°		9 000 (1 500)				
▲ LANAT(FIR BDRY)	311° 42.9		Class A, D and G				
362224N 1312542E	12.0					1	
INCHEON FIR FUKUOKA FIR							

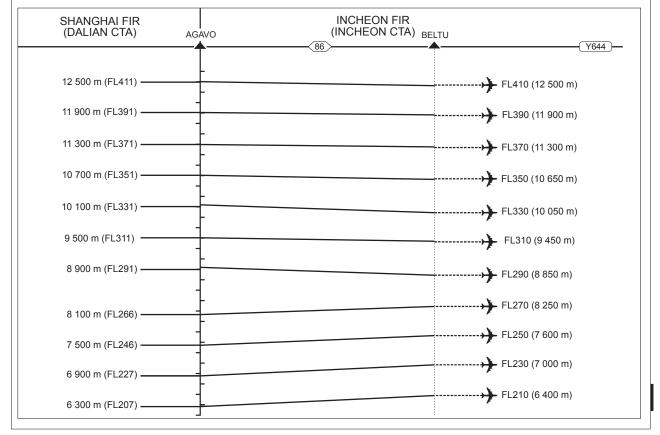
Change : Information of G597.

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3.1.2 DOMESTIC ATS ROUTES

		Upper limits Lower limits		Direction of cruising levels	
Route designator (RNP/RNAV) Name of significant poil 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
V11 ▲ PILIT					Daegu ACC
372631N 1291731E	4029		8	1	FREQ: (at or below FL 295) 134.175(123.65) MHz 272.40(233.60) MHz
KAE R 128/30 DME KPO R 001/88 DME	183° 003°	9 000 (7 000)			FREQ: (above FL 295) 122.250(125.925) MHz 263.350(263.85) MHz
▲ NOBUT	19.3	Class A, D, G			1. 11 000 ft to FL 240, at or above FL 280 will be blocked.
370715N 1291957E	183° 003°	9 000 (6 400)			At or above 11 000 ft, required 15 days PPR from Air Traffic Management Office.
▲ OSVOM	28.6	Class A, D, G			Airspace Classification refer to ENR 3.1-1
363844N 1292331E	183° 003°	9 000 (4 000)			Daegu ACC FREQ:
▲ LOSTO 362016N 1292548E	18.5 183°	Class A, D, G UNL			120.575(119.375, 119.325, 134.375) MHz 254.70(335.75) MHz
	003°	9 000 (3 300)			1. 11 000 ft to FL 240, at or above FL 280
△ POHANG VORTAC(KF	PO) 21.7	Class A, D, G			will be blocked.
355838N 1292828E	213° 032°	9 000 (4 200)			At or above 11 000 ft, required 15 days PPR from Air Traffic
▲ APARU	37.2	Class A, D, G			Management Office.
352442N 1290932E	213° 032°	9 000 (4 400)			Airspace Classification refer to ENR 3.1-1
△ BUSAN VORTAC(PSN 350721N 1285958E	19.0	Class A, D, G		<u> </u>	_

Change: Information of V11.

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				Upper limits		Direct	tion of	
				Lower limits			g levels	
١	Route designator (RNP/RNAV) Name of significant points Coordinates	VOF D (C	MAG↑/↓ R RDL IST OP)	or Minimum altitude(MOCA) ft AMSL or FL Airspace classification	Lateral limits NM	Odd	Even	Remarks Controlling unit channel Logon address 6
	V543							
\triangle	DALSU 350731N 1264206E	097° 277°		UNL 8 000 (2 500)	10	↓		Incheon ACC FREQ: (at or below FL 255)
\triangle	GWANGJU VOR(KWA) 350734N 1264844E	5.4		Class A, D, G				120.725(128.30) MHz 263.90(272.75) MHz
		097° 277°		8 000 (2 000)				FREQ: (above FL 255) 123.725(124.50) MHz
\triangle	SAMUL	2.6		Class A, D, G				239.25(275.40) MHz
	350736N 1265154E	097° 278° 22.1		UNL 8 000 (5 200)				Airspace Classification refer to ENR 3.1-1
•	TEDAN 350744N 1271852E	098°		Class A, D, G				
Δ	ANUBA	278° 13.5		8 000 (8 000) Class A, D, G				Daegu ACC
	350746N 1273523E	098° 279°	(25/83)	UNL 8 000 (8 000)				128.175(128.325) MHz 335.50(275.20) MHz
•	SAPDI 350737N 1282952E	44.7		Class A, D, G UNL				Airspace Classification refer to ENR 3.1-1
	3307371V 1202932L	098° 278°		8 000 (3 800)				
•	SARAM 350736N 1283147E	1.6 099°		Class A, D, G UNL				
^	ANIZHO	279° 11.9		8 000 (4 000) Class A, D, G				
\triangle	ANKUS 350730N 1284616E	099° 279°		UNL 8 000				
\wedge	BUSAN VORTAC(PSN)	11.2		(3 500) Class A, D, G			↑	
	350721N 1285958E						1	
	V547							Incheon ACC
\triangle	GWANGJU VOR(KWA) 350734N 1264844E				10			FREQ: (at or below FL 255) 120.725(128.30) MHz 263.90(272.75) MHz
		072° 253°		9 000 (8 600)				FREQ: (above FL 255) 123.725(124.50) MHz 239.25(275.40) MHz
•	IGDOK	54.7	(48/48)	Class D				Airspace Classification refer to ENR 3.1-1
	353104N 1274907E	073° 254°		10 000 9 000 (5 000)				Daegu ACC FREQ:
\triangle	DALSEONG VORTAC(TGU)	41.6		Class D			1	128.175(128.325) MHz 335.50(275.20) MHz
	354835N 1283527E							Airspace Classification refer to ENR 3.1-1

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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	 		Incheon ACC FREQ:(at or below FL 255)
 △ ELPOS 355410N 1264707E △ RINBO 355352N 1265349E 	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	J		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.

Change: Information of frequencies.

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		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		↓	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		↑		Airspace Classification refer to ENR 3.1-1
W62 △ SONGTAN VORTAC(SOT)						Daegu ACC
370540N 1270154E	044° 224°	UNL FL 140 (4 600)	10	\		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	1	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		↑		

Change: Information of frequencies.

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