ENR 3. ATS ROUTES

ENR 3.1 CONVENTIONAL NAVIGATION ROUTES

3.1.1 INTERNATIONAL ATS ROUTES

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	Direction of cruising levels: Odd	Direction of cruising levels: Even	Remarks Controlling unit channel Logon address
1	2	3	4	5		6
A582						
▲ ANYANG VORTAC(SEL)						**Daegu ACC**
372449N 1265542E	174°/354° 12.4	UNL / 4 500 (3 400) Class A, D, G	10	↓		FREQ: 132.80 MHz 118.925 MHz 122.75 MHz[1)]
▲ POLEG						*1) Common frequency*
371249N 1265935E	174°/354° 7.4					**Airspace Classification**
▲ SONGTAN VORTAC(SOT)						Class A : ABOVE FL 200 - FL 600 Class D : MEA - FL 200 Class G : ABOVE FL 600 - UNL
370540N 1270154E	144°/324° 21.6	UNL / 8 000 (3 300) Class A, D, G				
△ OSPOT						**Daegu ACC**
365018N 1272055E	144°/324° 10.4					FREQ: 125.375 MHz 125.775 MHz 124.575 MHz 122.75 MHz[2)]
△ VASLI						*2) Common frequency*
364252N 1273003E	144°/324° 21.9 (69/39)	UNL / 8 000 (4 300) Class A, D, G				**Airspace Classification**
△ MAKDU						Class A : ABOVE FL 200 - FL 600 Class D : MEA - FL 200 Class G : ABOVE FL 600 - UNL
362712N 1274909E	144°/324° 14.6	UNL / 8 000 (4 400) Class A, D, G				
△ BITUX						
361645N 1280148E	144°/324° 39.2	UNL / 10 000 (5 200) Class A, D, G				
▲ DALSEONG VORTAC(TGU)						
354835N 1283527E	162°/342° 20.4	UNL / 6 000 (5 400) Class A, D, G				
△ KALOD						
353012N 1284626E	162°/342° 25.4					
▲ BUSAN VORTAC(PSN)						
350721N 1285958E	162°/342° 26.6	UNL / 4 000 (3 000) Class A, D, G			↑	
▲ APELA(FIR BDRY)						
344323N 1291400E 344312N 1291408E [3)]	3) *BESSEL datum*					
INCHEON FIR						
FUKUOKA FIR						

Change : Information of title for ENR 3.1.

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	Direction of cruising levels Odd	Direction of cruising levels Even	Remarks Controlling unit channel Logon address
1	2	3	4	5		6
A586						
▲ TENAS 373820N 1313427E	227°/047° 68.1	UNL / FL 310(4 600) Class A, G	10		↓	**Daegu ACC** FREQ : 122.25 MHz 134.175 MHz 120.575 MHz 125.925 MHz 122.75 MHz[1)] *1) Common frequency* Airspace Classification refer to ENR 3.1-1
△ AGSUS 364521N 1304044E	228°/048° 36.2	UNL / FL 310(1 500) Class A, G				
△ DABIK 361743N 1301143E	228°/048° 28.1					
△ BULGA 355609N 1294924E	228°/048° 40.2	UNL / FL 310(2 900) Class A, G				
△ BEDOM 352513N 1291754E	228°/047° 23.1	UNL / FL 310(4 000) Class A, G				
▲ BUSAN VORTAC(PSN) 350721N 1285958E	237°/057° 10.4	UNL / 8 000(3 500) Class A, D, G				**Daegu ACC** FREQ : 125.375 MHz 122.75 MHz[2)] *2) Common frequency* Airspace Classification refer to ENR 3.1-1
△ OMOTU 350033N 1285022E	237°/057° 22.3	UNL / 8 000(3 200) Class A, D, G				
▲ TOPAX 344555N 1282952E	237°/057° 46.4	UNL / 8 000(2 800) Class A, D, G				**Incheon ACC** FREQ : 128.175 MHz 128.325 MHz 132.20 MHz[3)] *3) Common frequency*
△ GOSBO 341517N 1274734E	237°/056° 30.7	(79/78) UNL / 9 000(2 000) Class A, D, G				
▲ MAKET 335452N 1271953E	236°/056° 17.3	UNL / 9 000(1 500) Class A, D, G				**Incheon ACC** FREQ : 124.525 MHz 132.425 MHz 132.20 MHz[4)] *4) Common frequency* Airspace Classification refer to ENR 3.1-1
△ ATINA 334320N 1270423E	236°/055° 30.3	UNL / 9 000(8 700) Class A, D, G				
▲ JEJU VORTAC(CJU) 332305N 1263727E	169°/349° 24.0	UNL / 9 000(8 700) Class A, D, G				※ The cruising levels from CJU to RUGMA are even levels due to operational reasons
△ TOSAN 330012N 1264619E	169°/349° 31.5	UNL / 9 000(1 500) Class A, D, G		↑		※ The cruising level from RUGMA to CJU are odd levels due to operational reasons
▲ RUGMA 323012N 1265753E 323000N 1265800E [4)]	4) *BESSEL datum*					
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 TENAS-PSN CDR1 operational hours(Holiday).

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	Direction of cruising levels Odd	Direction of cruising levels Even	Remarks Controlling unit channel Logon address
1	2	3	4	5		6
FUKUOKA FIR						
INCHEON FIR **A593** ▲ ONIKU(FIR BDRY) 321142N 1263917E						**Incheon ACC**
	263°/082°	UNL / FL 240 (1 500) — Class A, G	50		↓	FREQ: (At or above FL 335) 133.425 MHz, 134.15 MHz, 132.20 MHz[1]; (Below FL 335) 125.725 MHz, 132.825 MHz, 128.375 MHz, 132.20 MHz[1] *1) Common frequency* Airspace Classification refer to ENR 3.1-1 ※ Eastbound from SADLI to ONIKU is only for Non-approval of RNAV 2. Any aircraft approved for RNAV 2 operation should use Y590.
△ NIRAT 320354N 1260329E	31.4					
	263°/083°					
△ PONIK 320021N 1254659E	14.5					
	262°/082°					
▲ SADLI 314948N 1250000E	41.4				↓	
	263°/082°					
▲ LAMEN(FIR BDRY) 313636N 1240000E	52.8			↑		
	2) BESSEL datum					
INCHEON FIR						
SHANHAI 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						**Incheon ACC** FREQ : 124.525 MHz, 132.425 MHz, 132.20 MHz[2] *2) Common frequency* Airspace Classification refer to ENR 3.1-1
	089°/269°	UNL / 9 000 (8 700) — Class A, D, G	8	↓		
△ TAMNA 332815N 1271953E	35.9					**Incheon ACC** FREQ : 128.175 MHz, 128.325 MHz, 132.20 MHz[3] *3) Common frequency* Airspace Classification refer to ENR 3.1-1
	089°/270°	UNL / 9 000 (1 500) — Class A, D, G			↑	
▲ SAMDO(FIR BDRY) 333503N 1281857E 333451N 1281905E [5]	49.8					
	5) BESSEL datum					
INCHEON FIR						
FUKUOKA FIR						

Change : Information of remarks and frequencies(Incheon ACC).

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	Direction of cruising levels: Odd	Direction of cruising levels: Even	Remarks Controlling unit channel Logon address
1	2	3	4	5		6
PYONGYANG FIR						
INCHEON FIR **B332** ▲ KANSU(FIR BDRY) 383800N 1322830E						**Daegu ACC**
△ PALDU 375813N 1323625E	180°/360° 40.2	UNL / FL 200 (1 500) Class A, G	50	↓		FREQ : 122.25 MHz 125.925 MHz 122.75 MHz[1)] *1) Common frequency*
▲ SABET 373829N 1324019E	180°/360° 19.9					Airspace Classification refer to ENR 3.1-1
▲ IGRAS(FIR BDRY) 371846N 1324411E	180°/360° 19.9				↑	
INCHEON FIR						
FUKUOKA FIR						
B467 ▲ GANGWON VORTAC(KAE) 374203N 1284514E						
△ NOMEX 374112N 1294441E	100°/280° 47.2	UNL / 8 000 (7 100) Class A, D, G	10	↓		**Daegu ACC** FREQ : 122.25 MHz 134.175 MHz 125.925 MHz 122.75 MHz[2)] *2) Common frequency*
△ BUSKO 374033N 1301610E	100°/280° 25.0	UNL / 8 000 (1 500) Class A, D, G				
▲ TENAS 373820N 1313427E	100°/281° 62.2	UNL / 8 000 (4 600) Class A, D, G				Airspace Classification refer to ENR 3.1-1
△ MALSO 375440N 1314904E	044°/224° 20.0	UNL / FL 200 (1 500) Class A, G	50			
▲ KANSU(FIR BDRY) 383800N 1322830E	044°/225° 53.3				↑	
INCHEON FIR						
PYONGYANG FIR						

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	Direction of cruising levels Odd	Direction of cruising levels Even	Remarks Controlling unit channel Logon address
1	2		3		4	5		6
B576*								
▲ ANYANG VORTAC(SEL) 372449N 1265542E	174°/354° 12.4		UNL / 4 500 (3 400)		10		↓	**Daegu ACC** FREQ: 132.80 MHz 128.70 MHz 122.75 MHz[1)] *1) Common frequency* Airspace Classification refer to ENR 3.1-1
▲ POLEG 371249N 1265935E	174°/354° 7.4		Class A, D, G					
▲ SONGTAN VORTAC(SOT) 370540N 1270154E	194°/014° 21.5			(2 800)				**Incheon ACC** FREQ: 126.175 MHz 134.375 MHz 132.20 MHz[2)] *2) Common frequency* Airspace Classification refer to ENR 3.1-1 * Note B576 is only used for Non-RNAV aircraft. Any aircraft approved for RNAV operations should use Y711 or Y722.
△ OLMEN 364413N 1265928E	194°/014° 21.1		13 000 / 7 000	(3 600)				
△ ENTEL 362311N 1265705E	194°/013° 29.4	(59/59) KUZ R-060/ D 19.1	Class D	(3 100)				
△ RINBO 355352N 1265349E	193°/013° 22.7		UNL** / FL 140 Class A, D, G	(3 400)				
△ LINTA 353116N 1265119E	193°/013° 23.8			(4 700)				**Incheon ACC** FREQ: 123.725 MHz 124.50 MHz 132.20 MHz[3)] *3) Common frequency* Airspace Classification refer to ENR 3.1-1
△ GWANGJU VOR(KWA) 350734N 1264844E	193°/012° 52.5		13 000 / 8 000 (4 700)					
△ IPDAS 341515N 1264301E	193°/012° 52.3	(52/52)	Class D 13 000 / 9 000 (8 700)	UNL** / FL 140				**Incheon ACC** FREQ: 124.525 MHz 132.425 MHz 132.20 MHz[4)] *4) Common frequency* Airspace Classification refer to ENR 3.1-1 ** Note Any aircraft planning to operate above FL 140 between SOT and CJU must coordinate with Incheon ACC before flight planning.
▲ JEJU VORTAC(CJU) 332305N 1263727E	207°/027° 24.3		Class D UNL / 9 000 (8 700)					
△ SOSDO 330012N 1262735E	207°/027° 29.5		Class A, D, G					
△ SAMLO 323223N 1261536E	207°/027° 30.2							**Incheon ACC** FREQ: (At or above FL 335) 133.425 MHz 132.425 MHz 132.20 MHz[5)] (below FL 335) 125.725 MHz 132.825 MHz 128.375 MHz 132.20 MHz[5)] *5) Common frequency* Airspace Classification refer to ENR 3.1-1
△ NIRAT 320354N 1260329E	207°/027° 18.1		UNL / 8 000 (1 500)					
△ ELGEP 314653N 1255617E	207°/027° 12.1		Class A, D, G					
△ TESIM 313526N 1255128E	207°/027° 100.9					↑		
▲ ATOTI(FIR BDRY) 300013N 1251154E 300000N 1251200E [2)] INCHEON FIR FUKUOKA FIR	*2) BESSEL datum*							

NAVAID(DME) GAP : Between 44 NM from KWA and 55 NM from SOT, below 10 000 ft AMSL, request to controller is required to get distance information.

Change : Amended phrase(KUX → KUZ).

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	Direction of cruising levels Odd	 Even	Remarks Controlling unit channel Logon address
1	2	3	4	5		6
G339 ▲ BUSAN VORTAC(PSN) 350721N 1285958E						
	149° 330°	UNL 10 000 (3 400)	8	↓		**Daegu ACC** FREQ : 125.375 MHz 125.775 MHz 124.575 MHz 122.75 MHz[1)]
▲ INVOK(FIR BDRY) 344719N 1291923E 344708N 1291931E [2)]	25.6	Class A, D, G			↑	1) *Common frequency* Airspace Classification refer to ENR 3.1-1
	2) *BESSEL datum*					
INCHEON FIR						
FUKUOKA FIR						

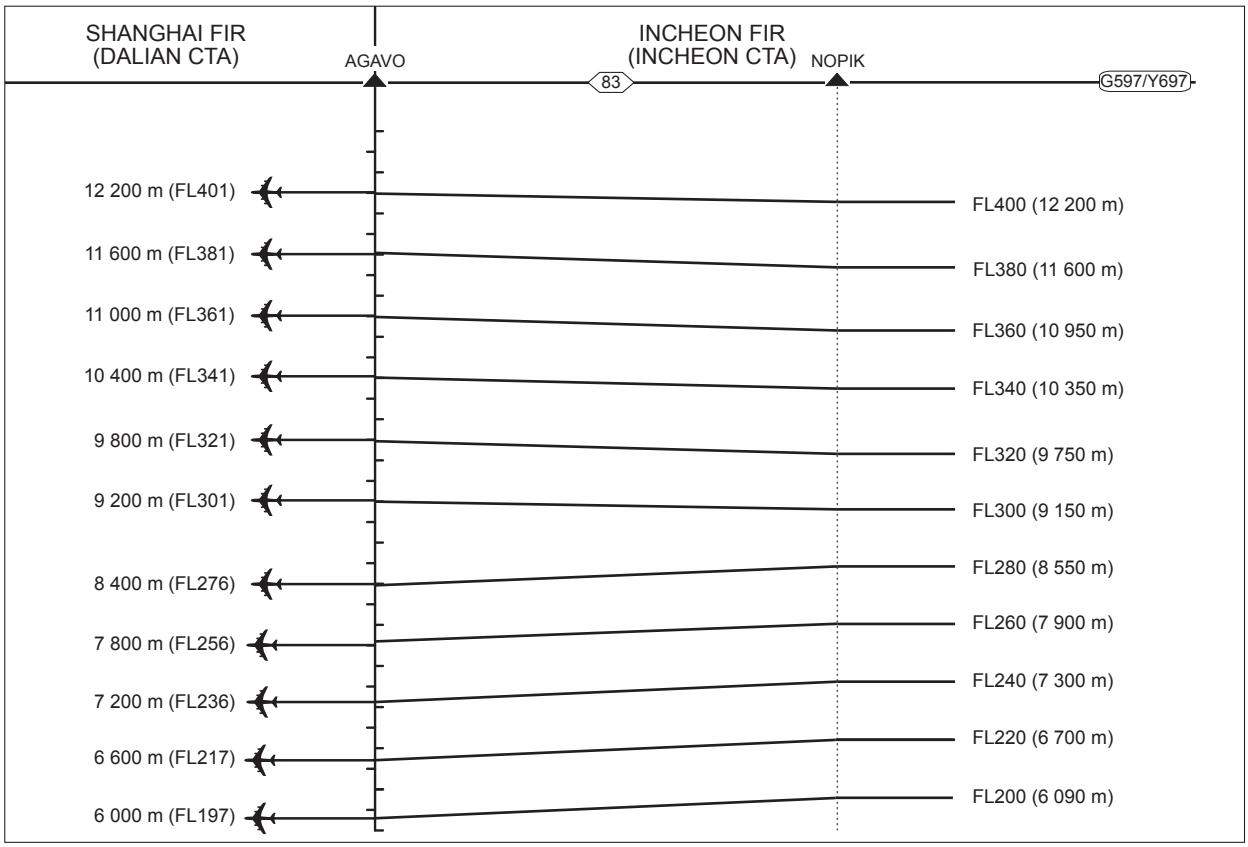
Route designator (RNP/RNAV) Name of significant points Coordinates	Track MAG↑/↓ VOR RDL DIST (COP)		Upper limits / Lower limits or Minimum altitude(MOCA) ft AMSL or FL / Airspace classification	Lateral limits NM	Direction of cruising levels Odd	Direction of cruising levels Even	Remarks Controlling unit channel Logon address
1	2		3	4	5		6
G585							
▲ ANYANG VORTAC(SEL)							**Daegu ACC**
372449N 1265542E	133°/313° 10.7	(50/32)	UNL / 8 000 (3 400) Class A, D, G	8	↓		FREQ: 132.80 MHz 128.70 MHz 118.925 MHz 120.525 MHz 122.75 MHz[1)]
▲ KALMA							1) Common frequency
371845N 1270645E	133°/313° 19.3						Only flying westbound from KPO to SEL on G585 is authorized except ACFT departing from RKTY or RKTI.
△ KAKSO							Aircraft flying eastbound from SEL to KPO at or above 11 000 ft on G585 shall get PPR 24 hours before from Daegu ACC.
370745N 1272637E	133°/313° 11.5		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
△ GUKDO							**Daegu ACC**
370111N 1273823E	133°/313° 9.2		UNL / 8 000 (3 700) Class A, D, G				FREQ: 120.575 MHz 119.357 MHz 134.375 MHz 122.75 MHz[2)]
△ ENSAL							2) Common frequency
365554N 1274747E	133°/314° 9.2		UNL / 8 000 (4 000) Class A, D, G				Only flying westbound from KPO to SEL on G585 is authorized except ACFT departing from RKTY or RKTI.
△ BASEM							Aircraft flying eastbound from SEL to KPO at or above 11 000 ft on G585 shall get PPR 24 hours before from Incheon/Daegu ACC.
365037N 1275710E	134°/314° 12.5		UNL / 8 000 (5 000) Class A, D, G				No PPR is needed at or below 10 000 ft. Airspace Classification refer to ENR 3.1-1
▲ BIGOB							
364325N 1280952E	134°/314° 9.5		UNL / 8 000 (4 900) Class A, D, G				
△ YECHEON VOR(CUN)							
363755N 1281931E	133°/313° 30.8	(34/34)	UNL / 8 000 (3 900) Class A, D, G				
△ ELAPI							
362014N 1285051E	133°/314° 37.3		UNL / 8 000 (5 000) Class A, D, G				
▲ POHANG VORTAC(KPO)							
355838N 1292828E	107°/287° 17.2		UNL / 8 000 (3 500) Class A, D, G				
△ BULGA							
355609N 1294924E	107°/287° 44.4		UNL / 8 000 (1 500) Class A, D, G			↑	
▲ SAPRA(FIR BDRY)							
354926N 1304325E							
354915N 1304334E[3)]	3) *BESSEL datum*						
INCHEON FIR							
FUKUOKA FIR							

Change : Information of controlling unit(Incheon ACC → Daegu ACC) and frequencies(Daegu ACC).

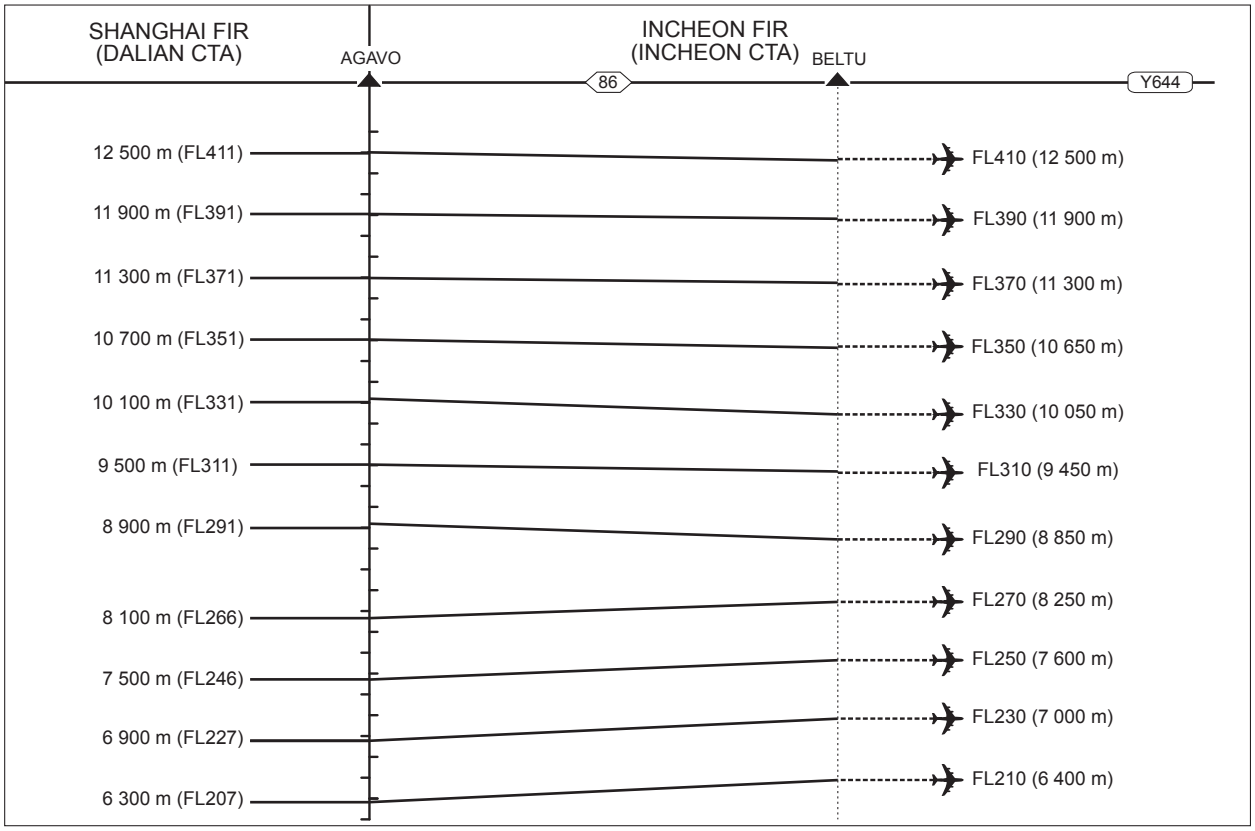
Route designator (RNP/RNAV) Name of significant points Coordinates	Track MAG ↑ / ↓ VOR RDL DIST (COP)	Upper limits / Lower limits or Minimum altitude(MOCA) ft AMSL or FL Airspace classification	Lateral limits NM	Direction of cruising levels Odd	Direction of cruising levels Even	Remarks Controlling unit channel Logon address
1	2	3	4	5		6
SHANGHAI FIR						
INCHEON FIR						
G597						**Daegu ACC** FREQ : 128.70 MHz 132.80 MHz 122.75 MHz[1]
▲ AGAVO(FIR BDRY) 371010N 1235953E *371000N 1240000E*[5]	096° / 276° 20.0	UNL / FL 150 (1 500) Class A, D, G	10			1) Common frequency
▲ GONAV 371048N 1242453E	066° / 246° 13.8					Westbound(SEL-AGAVO) FL 400, FL 380, FL 360, FL 340, FL 320, FL 300, FL 280, FL 260, FL 240, FL 220, FL 200.
△ DANTI 371806N 1243929E	066° / 247° 10.0					Note G597 is only for Non-RNAV aircraft. Any aircraft approved for RNAV operations should use Y697.
△ ANSIM 372323N 1245009E	097° / 277° 19.0					Only flying westbound from SEL to AGAVO on G597 is authorized. (unless otherwise assigned by ATC, flying eastbound in this airway shall not be used)
△ BINIL 372349N 1251359E	097° / 278° 20.0					
△ NOPIK 372412N 1253905E	098° / 278° 41.0	UNL / 8 000 (2 200) Class A, D, G				Aircraft flying eastbound from AGAVO to SEL on G597 shall get PPR 24-hours before from Incheon ACC.
△ GOGET 372442N 1263036E	098° / 278° 20.0	UNL / 8 000 (3 400) Class A, D, G			↑	REF. ENR 3.1-9 for the detailed Altitude conversion procedures.
▲ ANYANG VORTAC(SEL) 372449N 1265542E	087° / 267° 22.0	UNL / 7 500 (3 500) Class A, D, G		↓		**Daegu ACC** FREQ : 132.80 MHz 118.925 MHz 122.75 MHz[2]
△ EGOBA 372915N 1272246E	087° / 267° 13.9	UNL / 7 500 (5 100) Class A, D, G				2) Common frequency
△ KARBU 373159N 1273952E	087° / 268° 22.9 (44/45)	UNL / 7 500 (5 600) Class A, D, G				**Daegu ACC** FREQ : 134.175 MHz 123.65 MHz 122.75 MHz[3]
△ TORUS 373625N 1280807E	087° / 268° 21.8	UNL / 7 500 (7 500) Class A, D, G				3) Common frequency
△ BIKSI 374032N 1283504E	088° / 268° 8.2	UNL / 7 500 (7 100) Class A, D, G				Airspace Classification refer to ENR 3.1-1
▲ GANGWON VORTAC(KAE) 374203N 1284514E	130° / 310° 30.0	UNL / 8 000 (7 100) Class A, D, G				**Daegu ACC** FREQ : 134.175 MHz 123.65 MHz 122.75 MHz[4]
▲ PILIT 372631N 1291731E	130° / 310° 27.5	UNL / 9 000 (3 100) Class A, D, G				4) Common frequency
△ NIMUS 371210N 1294656E	130° / 311° 50.8	UNL / 9 000 (1 500) Class A, D and G				Only flying westbound from LANAT to KAE on G597 shall get 24HRs PPR from Daegu ACC.
△ AGSUS 364521N 1304044E	131° / 311° 42.9				↑	Airspace Classification refer to ENR 3.1-1
▲ LANAT(FIR BDRY) 362224N 1312542E *362213N 1312551E*[5]	5) *BESSEL datum*					
INCHEON FIR						
FUKUOKA FIR						

Change : Information of controlling unit(Incheon ACC → Daegu ACC) and frequencies(Daegu ACC).

ALTITUDE CONVERSION FROM INCHEON CTA TO DALIAN CTA (RVSM)



FROM DALIAN CTA TO INCHEON CTA



Change : Information of altitude conversion.

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3.1.2 DOMESTIC ATS ROUTES

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	Direction of cruising levels: Odd	Direction of cruising levels: Even	Remarks Controlling unit channel Logon address
1	2	3	4	5		6
V11						
▲ PILIT 372631N 1291731E	183° 003° 19.3	UNL 9 000 (7 000) Class A, D, G	8		↓	**Daegu ACC** FREQ : 134.175 MHz 120.575 MHz 123.65 MHz 119.375 MHz 122.75 MHz[1)]
△ NOBUT 370715N 1291957E	183° 003° 47.2	UNL 9 000 (6 400) Class A, D, G				1) Common frequency
△ LOSTO 362016N 1292548E	183° 003° 21.7	UNL 9 000 (3 300) Class A, D, G				1. 11 000 ft to FL 240, at or above FL 280 will be blocked.
▲ POHANG VORTAC(KPO) 355838N 1292828E	213° 032° 37.2	UNL 9 000 (4 200) Class A, D, G				2. At or above 11 000 ft, required 15 days PPR from Air Traffic Management Office
△ APARU 352442N 1290932	213° 032° 19.0	UNL 9 000 (4 400) Class A, D, G		↑		3. Airspace Classification refer to ENR 3.1-1
▲ BUSAN VORTAC(PSN) 350721N 1285958E						

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	Direction of cruising levels Odd	Direction of cruising levels Even	Remarks Controlling unit channel Logon address
1	2		3	4	5		6
V543							
△ DALSU							
350731N 1264206E	097° / 277° 5.4		UNL / 8 000 (2 500) Class A, D, G	10	↓		
△ GWANGJU VOR(KWA)							
350734N 1264844E	097° / 277° 2.6		UNL / 8 000 (2 000) Class A, D, G				**Incheon ACC** FREQ : 120.725 MHz 128.30 MHz 123.725 MHz 124.50 MHz 132.20 MHz[1] *1) Common frequency* Airspace Classification refer to ENR 3.1-1
△ SAMUL							
350736N 1265154E	097° / 278° 22.1		UNL / 8 000 (5 200) Class A, D, G				
△ TEDAN							
350744N 1271852E	098° / 278° 13.5		UNL / 8 000 (8 000) Class A, D, G				
△ ANUBA							
350746N 1273523E	098° / 279° 44.7	(25/83)	UNL / 8 000 (8 000) Class A, D, G				
△ SAPDI							
350737N 1282952E	098° / 278° 1.6		UNL / 8 000 (3 800) Class A, D, G				**Daegu ACC** FREQ : 125.375 MHz 125.775 MHz 124.575 MHz 122.75 MHz[2] *2) Common frequency* Airspace Classification refer to ENR 3.1-1
△ SARAM							
350736N 1283147E	099° / 279° 11.9		UNL / 8 000 (4 000) Class A, D, G				
△ ANKUS							
350730N 1284616E	099° / 279° 11.2		UNL / 8 000 (3 500) Class A, D, G			↑	
▲ BUSAN VORTAC(PSN)							
350721N 1285958E							
V547							
△ GWANGJU VOR(KWA)							
350734N 1264844E	072° / 253° 54.7	(48/48)	10 000 / 9 000 (8 600) Class D	10	↓		**Incheon ACC** FREQ : 123.725 MHz 124.50 MHz 132.20 MHz[3] *3) Common frequency* Airspace Classification refer to ENR 3.1-1
△ IGDOK							
353104N 1274907E	073° / 254° 41.6		10 000 / 9 000 (5 000) Class D			↑	**Daegu ACC** FREQ : 125.375 MHz 125.775 MHz 124.575 MHz 122.75 MHz[4] *4) Common frequency* Airspace Classification refer to ENR 3.1-1
▲ DALSEONG VORTAC(TGU)							
354835N 1283527E							

Change : Information of track MAG and COP(V543).

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	Direction of cruising levels Odd	Direction of cruising levels Even	Remarks Controlling unit channel Logon address
1	2		3	4	5		6
V549							
▲ GUNSAN VORTAC(KUZ)							**Incheon ACC**
355437N 1263641E	101° / 281°			10	↓		FREQ : 132.15 MHz 126.175 MHz 123.55 MHz 134.375 MHz 132.20 MHz[1)]
			10 000 / 7 000 (1 800) Class D				1) *Common frequency*
△ ELPOS	8.5						Airspace Classification refer to ENR 3.1-1
355410N 1264707E	101° / 281°						
△ RINBO	5.5						
355352N 1265349E	101° / 282°	(49/48)	10 000 / 7 000 (3 500) Class D				
△ MELES	17.8						
355251N 1271542E	102° / 282°		10 000 / 7 000 (5 000) Class D				
▲ OPEDA	17.2						
355149N 1273652E	102° / 282°		10 000 / 7 000 (6 600) Class D				**Daegu ACC**
▲ DALSEONG VORTAC(TGU)	47.7						FREQ : 125.375 MHz 125.775 MHz 124.575 MHz 122.75 MHz[2)]
354835N 1283527E	085° / 265°		UNL / 6 000 (5 400) Class A, D, G				2) *Common frequency*
△ LAPAL	24.6						Airspace Classification refer to ENR 3.1-1
355413N 1290452E	085° / 265°						TGU is used Between TGU and KPO.
▲ POHANG VORTAC(KPO)	19.7					↑	
355838N 1292828E							
W45							
▲ GWANGJU TACAN(KWJ)							**Incheon ACC**
350723N 1264810E	097° / 278°		UNL / 8 000 (8 000) Class A, D, G	10	↓		FREQ : 123.725 MHz 124.50 MHz 132.20 MHz[3)]
	38.4						3) *Common frequency*
△ RIMPO							Between RIMPO and RUNIT 11 000 ft AMSL to FL 190 VMC-IMC use for training purpose.
350739N 1273502E	098° / 278°	(23/85)	UNL / 8 000 (8 000) Class A, D, G				Airspace Classification refer to ENR 3.1-1
△ RUNIT	45.1						
350734N 1282952E	098° / 279°		UNL / 8 000 (4 000) Class A, D, G				**Daegu ACC**
▲ BUSAN VORTAC(PSN)	24.7					↑	FREQ : 125.375 MHz 125.775 MHz 124.575 MHz 122.75 MHz[4)]
350721N 1285958E							4) *Common frequency*
							Between RIMPO and RUNIT 11 000 ft AMSL to FL 190 VMC-IMC use for training purpose.
							Airspace Classification refer to ENR 3.1-1

Change : Information of fix names(PIPOL → RIMPO, BOKUM → RUNIT), coordinates, DIST and COP for W45.

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	Direction of cruising levels: Odd	Direction of cruising levels: Even	Remarks Controlling unit channel Logon address
1	2	3	4	5		6
W61						
▲ SONGTAN VORTAC(SOT)						
370540N 1270154E	316° / 136°	UNL / 8 000 (2 400)	10		↓	**Daegu ACC**
	11.7	Class A, D, G				FREQ : 128.70 MHz
△ MONSI						132.80 MHz
371247N 1265015E	316° / 136°	UNL / 8 000 (3 200)				122.75 MHz[1)]
	19.7	Class A, D, G		↑		*1) Common frequency*
△ GOGET						Airspace Classification refer to ENR 3.1-1
372442N 1263036E						
W62						
▲ SONGTAN VORTAC(SOT)						
370540N 1270154E	044° / 224°	UNL / FL 140 (4 600)	10	↓		**Daegu ACC**
	28.8	Class A, D, G			↑	FREQ : 128.70MHz
△ EGOBA						132.80MHz
372915N 1272246E						122.75 MHz[2)]
						2) Common frequency
						Airspace Classification refer to ENR 3.1-1
W526						
▲ DALSEONG VORTAC(TGU)						
354835N 1283527E	192° / 012°	UNL / 5 000 (4 900)	10		↓	**Daegu ACC**
	19.8	Class A, D, G				FREQ : 125.375 MHz
△ MASTA						125.775 MHz
352847N 1283340E	192° / 012°	UNL / 5 000 (3 800)				124.575 MHz
	21.2	Class A, D, G				122.75 MHz [3)]
△ SARAM						*3) Common frequency*
350736N 1283147E	192° / 012°	UNL / 5 000 (3 200)				Airspace Classification refer to ENR 3.1-1
	21.7	Class A, D, G		↑		
▲ TOPAX						
344555N 1282952E						