

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

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		Remarks Controlling unit channel Logon address
					Odd	Even	
1	2	3		4	5		6
A586* ▲ TENAS 373820N 1313427E △ AGSUS 364521N 1304044E △ DABIK 361743N 1301143E △ BULGA 355609N 1294924E △ BEDOM 352513N 1291754E ▲ BUSAN VORTAC(PSN) 350721N 1285958E △ OMOTU 350033N 1285022E ▲ TOPAX 344555N 1282952E △ GOSBO 341517N 1274734E ▲ MAKET 335452N 1271953E △ ATINA 334320N 1270423E △ MANOL 333629N 1265514E ▲ JEJU VORTAC(CJU) 332305N 1263727E △ TOSAN 330012N 1264619E ▲ RUGMA(FIR BDRY) 323012N 1265753E 323000N 1265800E ⁴⁾							Daegu ACC FREQ : 128.175 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 Daegu ACC FREQ : 125.375 MHz 124.575 MHz 122.75 MHz ²⁾ 2) Common frequency Airspace Classification refer to ENR 3.1-1 Daegu ACC FREQ : 128.175 MHz 128.325 MHz 122.75 MHz ³⁾ 3) Common frequency Airspace Classification refer to ENR 3.1-1 Incheon ACC FREQ : 124.525 MHz 132.425 MHz 132.20 MHz ⁴⁾ 4) Common frequency Airspace Classification refer to ENR 3.1-1 ※ The cruising levels from CJU to RUGMA are even levels due to operational reasons. ※ The cruising level from RUGMA to CJU are odd levels due to operational reasons.
	227° 047°	UNL FL 310(4 600) Class A, G		10		↓	
	68.1						
	228° 048°						
	36.2	UNL FL 310(1 500) Class A, G					
	228° 048°						
	28.1						
	228° 048°	UNL FL 310(2 900) Class A, G					
	40.2						
	228° 047°	UNL FL 310(4 000) Class A, G					
	23.1						
	237° 057°	(79/78)	UNL** 11 000	10 000 8 000(3 500) Class D			
	10.4						
	237° 057°			10 000 8 000(3 200) Class D			
	22.3						
	237° 057°			10 000 8 000(2 800) Class D			
	46.4						
	237° 056°			10 000 8 000(2 000) Class D			
	30.7						
	236° 056°			10 000 8 000(1 500) Class D			
17.3							
236° 056°	10 000 8 000(1 500) Class D						
10.3							
235° 055°	10 000 9 000(8 700) Class D						
20.0							
169° 349°	UNL 9 000(8 700) Class A, D, G						
24.0							
169° 349°	UNL 9 000(1 500) Class A, D, G						
31.5				↑			
4) <i>BESSEL datum</i>							
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.

* 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 Incheon ACC before flight planning.

Change : Information of controlling unit and frequencies for A586.

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		Remarks Controlling unit channel Logon address
				Odd	Even	
1	2	3	4	5		6
FUKUOKA FIR						
INCHEON FIR						
A593 ▲ ONIKU(FIR BDRY) 321142N 1263917E	263° 082°	UNL FL 240 (1 500) Class A, G	50		↓	Incheon ACC 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					
△ PONIK 320021N 1254659E	263° 083°					
▲ SADLI 314948N 1250000E	14.5					
	262° 082°					
▲ LAMEN(FIR BDRY) 313636N 1240000E	41.4				↓	
	263° 082°					
	52.8			↑		
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°	UNL 9 000 (8 700) Class A, D, G	8	↓		Incheon ACC FREQ : 124.525 MHz 132.425 MHz 132.20 MHz ²⁾ 2) Common frequency Airspace Classification refer to ENR 3.1-1
△ TAMNA 332815N 1271953E	35.9					
▲ SAMDO(FIR BDRY) 333503N 1281857E 333451N 1281905E ⁵⁾	089° 270°	UNL 9 000 (1 500) Class A, D, G			↑	Daegu ACC FREQ : 128.175 MHz 128.325 MHz 122.75 MHz ³⁾ 3) Common frequency Airspace Classification refer to ENR 3.1-1
	49.8					
INCHEON FIR						
FUKUOKA FIR						

Change : Information of controlling unit and frequency for A595.

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		Remarks Controlling unit channel Logon address		
				Odd	Even			
1	2	3	4	5		6		
PYONGYANG FIR								
INCHEON FIR								
B332 ▲ KANSU(FIR BDRY) 383800N 1322830E △ PALDU 375813N 1323625E ▲ SABET 373829N 1324019E ▲ IGRAS(FIR BDRY) 371846N 1324411E INCHEON FIR						Daegu ACC		
	180° 360°	<u>UNL</u> FL 200 (1 500) Class A, G	50	↓		FREQ : 122.25 MHz 125.925 MHz 122.75 MHz ¹⁾ 1) Common frequency		
	40.2							
	180° 360°							
	19.9							
	180° 360°							
	19.9				↑	Airspace Classification refer to ENR 3.1-1		
FUKUOKA FIR								
B467 ▲ GANGWON VORTAC(KAE) 374203N 1284514E △ NOMEX 374112N 1294441E △ BUSKO 374033N 1301610E ▲ TENAS 373820N 1313427E △ MALSO 375440N 1314904E ▲ KANSU(FIR BDRY) 383800N 1322830E INCHEON FIR								
	100° 280°	<u>UNL</u> 8 000 (7 100)	10	↓		Daegu ACC FREQ : 122.25 MHz 134.175 MHz 125.925 MHz 122.75 MHz ²⁾ 2) Common frequency Airspace Classification refer to ENR 3.1-1		
	47.2	Class A, D, G						
	100° 280°	<u>UNL</u> 8 000 (1 500)						
	25.0	Class A, D, G						
	100° 281°	<u>UNL</u> 8 000 (4 600)						
	62.2	Class A, D, G	50					
	044° 224°	<u>UNL</u> FL 200 (1 500)						
	20.0	Class A, G						
	044° 225°							
	53.3				↑			
	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		Lateral limits NM	Direction of cruising levels		Remarks Controlling unit channel Logon address
		Airspace classification			Odd	Even	
1	2	3		4	5		6
B576* ▲ ANYANG VORTAC(SEL) 372449N 1265542E	$\frac{174^\circ}{354^\circ}$	<u>UNL</u> 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	$\frac{174^\circ}{354^\circ}$	Class A, D, G					
▲ SONGTAN VORTAC(SOT) 370540N 1270154E	7.4						
△ OLMEN 364413N 1265928E	$\frac{194^\circ}{014^\circ}$		(2 800)				
△ ENTEL 362311N 1265705E	$\frac{194^\circ}{014^\circ}$	$\frac{13\ 000}{7\ 000}$	(3 600)				
△ RINBO 355352N 1265349E	21.1	Class D	(3 100)				
△ LINTA 353116N 1265119E	$\frac{194^\circ}{013^\circ}$	<u>UNL**</u> FL 140	(3 400)				
△ GWANGJU VOR(KWA) 350734N 1264844E	29.4	Class A, D, G	(4 700)				
△ IPDAS 341515N 1264301E	$\frac{193^\circ}{013^\circ}$						
▲ JEJU VORTAC(CJU)	22.7						
332305N 1263727E	$\frac{193^\circ}{012^\circ}$	$\frac{13\ 000}{8\ 000}$ (4 700)	<u>UNL**</u> FL 140				
△ SOSDO 330012N 1262735E	52.5	Class D					
△ SAMLO 323223N 1261536E	$\frac{193^\circ}{012^\circ}$	$\frac{13\ 000}{9\ 000}$ (8 700)					
△ NIRAT 320354N 1260329E	52.3	Class D					
△ ELGEP 314653N 1255617E	$\frac{207^\circ}{027^\circ}$	<u>UNL</u> 9 000 (8 700)					
△ TESIM 313526N 1255128E	24.3	Class A, D, G					
▲ ATOTI(FIR BDRY) 300013N 1251154E 300000N 1251200E ²⁾	$\frac{207^\circ}{027^\circ}$	<u>UNL</u> 8 000 (1 500)					
INCHON FIR	30.2	Class A, D, G					
FUKUOKA FIR	$\frac{207^\circ}{027^\circ}$						
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		Remarks Controlling unit channel Logon address
				Odd	Even	
1	2	3	4	5		6
G339 ▲ BUSAN VORTAC(PSN) 350721N 1285958E ▲ INVOK(FIR BDRY) 344719N 1291923E 344708N 1291931E ²⁾ INCHEON FIR FUKUOKA FIR						
	149° 330°	UNL 10 000 (3 400)	8	↓		Daegu ACC FREQ : 125.375 MHz 125.775 MHz 124.575 MHz 122.75 MHz ¹⁾ 1) <i>Common frequency</i>
	25.6	Class A, D, G			↑	2) <i>BESSEL datum</i> Airspace Classification refer to ENR 3.1-1

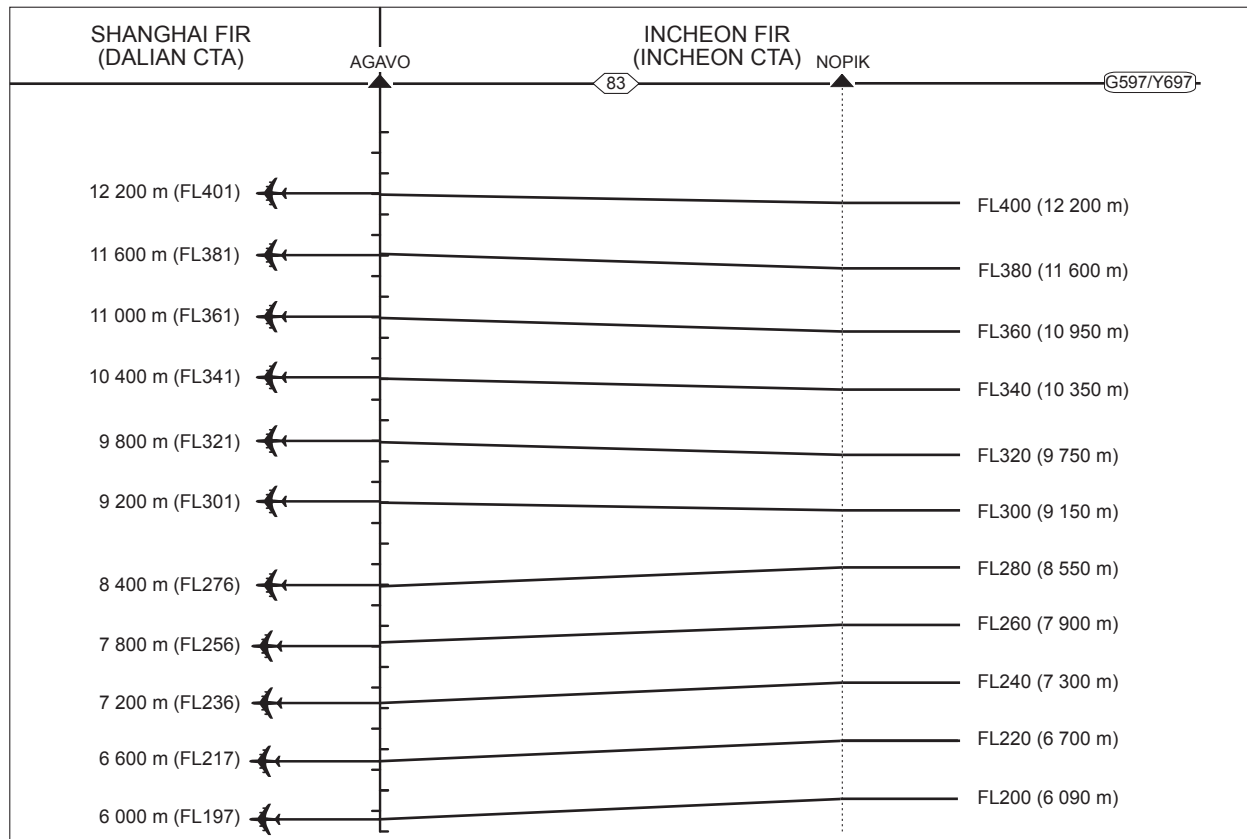
Route designator (RNP/RNAV) Name of significant points Coordinates	Track MAG↑/↓ VOR RDL DIST (COP)	Upper limits Lower limits or Minimum altitude(MOCA) ft AMSL or FL Airspace classification		Lateral limits NM	Direction of cruising levels		Remarks Controlling unit channel Logon address
					Odd	Even	
1	2	3	4	5	6		
G585							Daegu ACC
▲ ANYANG VORTAC(SEL) 372449N 1265542E	133° 313° 10.7	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⁾ 1) Common frequency Only flying westbound from KPO to SEL on G585 is authorized except ACFT departing from RKTY or RKTJ. Aircraft flying eastbound from SEL to KPO at or above 11 000 ft on G585 shall get PPR 24 hours before from Daegu ACC. No PPR is needed at or below 10 000 ft. Airspace Classification refer to ENR 3.1-1
▲ KALMA 371845N 1270645E	133° 313° 19.3						
△ KAKSO 370745N 1272637E	133° 313° 11.5	UNL 8 000 (3 600) Class A, D, G					Daegu ACC FREQ: 120.575 MHz 119.357 MHz 134.375 MHz 122.75 MHz ²⁾ 2) Common frequency Only flying westbound from KPO to SEL on G585 is authorized except ACFT departing from RKTY or RKTJ. 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. No PPR is needed at or below 10 000 ft. Airspace Classification refer to ENR 3.1-1
△ GUKDO 370111N 1273823E	133° 313° 9.2	UNL 8 000 (3 700) Class A, D, G					
△ ENSAL 365554N 1274747E	133° 314° 9.2	UNL 8 000 (4 000) Class A, D, G					
△ BASEM 365037N 1275710E	134° 314° 12.5	UNL 8 000 (5 000) Class A, D, G					
▲ 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	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⁾						↑	
INCHEON FIR FUKUOKA FIR	3) BESSEL datum						

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

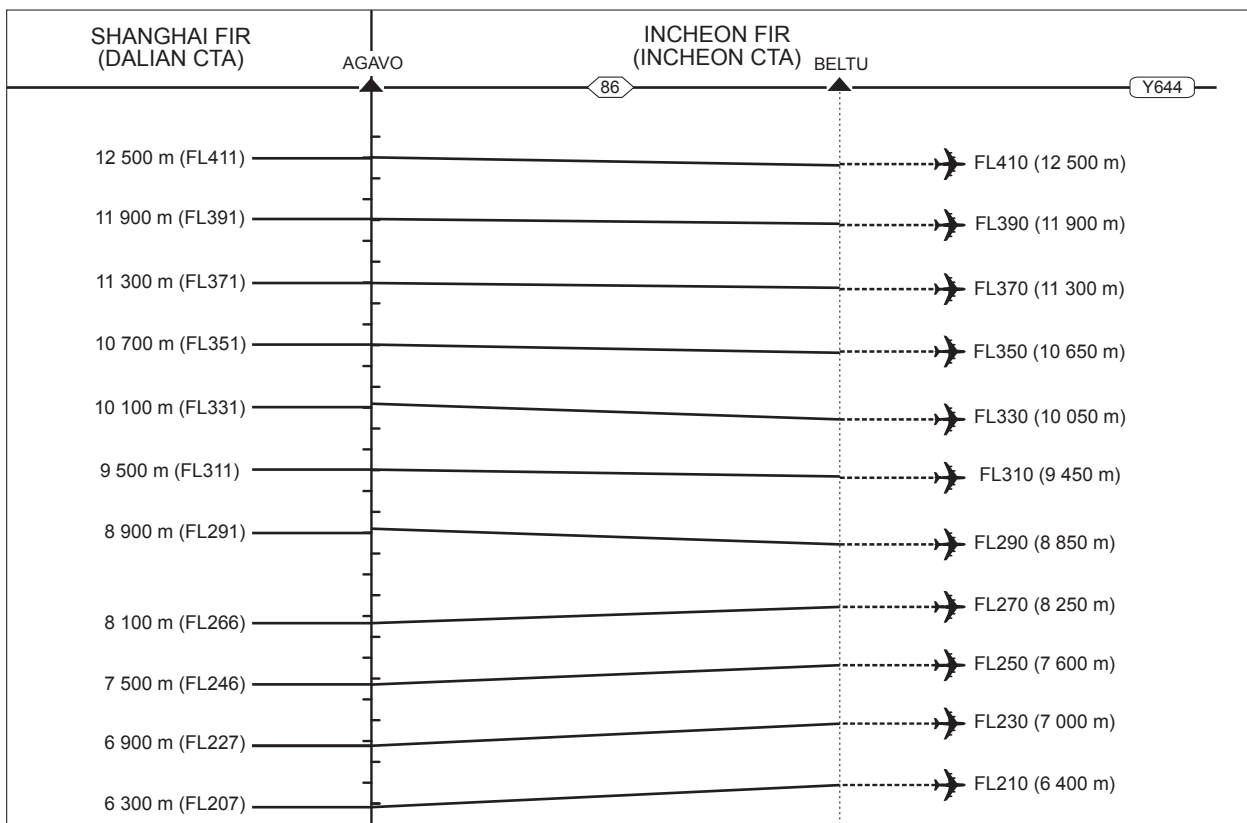
Route designator (RNP/RNAV) Name of significant points Coordinates	Track MAG ↑/↓ VOR RDL DIST (COP)	Upper limits Lower limits or Minimum altitude(MOCA) ft AMSL or FL Airspace classification	Lateral limits NM	Direction of cruising levels		Remarks Controlling unit channel Logon address
				Odd	Even	
1	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°	UNL FL 150 (1 500) Class A, D, G	10			1) Common frequency
▲ GONAV 371048N 1242453E	20.0					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° 246°					Note G597 is only for Non-RNAV aircraft. Any aircraft approved for RNAV operations should use Y697.
△ ANSIM 372323N 1245009E	13.8 066° 247°					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	10.0 097° 277°	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.
△ NOPIK 372412N 1253905E	19.0 097° 278°					REF. ENR 3.1-9 for the detailed Altitude conversion procedures.
▲ ANYANG VORTAC(SEL) 372449N 1265542E	20.0	UNL 8 000 (3 400) Class A, D, G				Daegu ACC FREQ : 132.80 MHz 118.925 MHz 122.75 MHz ²⁾
△ EGOBA 372915N 1272246E	087° 267°	UNL 7 500 (3 500) Class A, D, G		↓		2) Common frequency
△ KARBU 373159N 1273952E	22.0	UNL 7 500 (5 100) Class A, D, G				Daegu ACC FREQ : 134.175 MHz 123.65 MHz 122.75 MHz ³⁾
△ TORUS 373625N 1280807E	087° 267°	UNL 7 500 (5 600) Class A, D, G				3) Common frequency
△ BIKSI 374032N 1283504E	13.9	UNL 7 500 (7 500) Class A, D, G				Airspace Classification refer to ENR 3.1-1
▲ GANGWON VORTAC(KAE) 374203N 1284514E	087° 268°	UNL 7 500 (7 100) Class A, D, G				Daegu ACC FREQ : 134.175 MHz 123.65 MHz 122.75 MHz ⁴⁾
▲ PILIT 372631N 1291731E	22.9	UNL 7 500 (7 500) Class A, D, G				4) Common frequency
△ NIMUS 371210N 1294656E	21.8	UNL 9 000 (3 100) Class A, D, G				Only flying westbound from LANAT to KAE on G597 shall get 24HRs PPR from Daegu ACC.
△ AGSUS 364521N 1304044E	088° 268°	UNL 9 000 (1 500) Class A, D and G				Airspace Classification refer to ENR 3.1-1
▲ LANAT(FIR BDRY) 362224N 1312542E 362213N 1312551E ⁵⁾	50.8 131° 311°					
INCHEON FIR	42.9					
FUKUOKA FIR	5) BESSEL datum					

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.



INTENTIONALLY

LEFT

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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		Remarks Controlling unit channel Logon address
				Odd	Even	
1	2	3	4	5		6
V11						
▲ PILIT 372631N 1291731E	183° 003°	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⁾ 1) Common frequency 1. 11 000 ft to FL 240, at or above FL 280 will be blocked. 2. At or above 11 000 ft, required 15 days PPR from Air Traffic Management Office. 3. Airspace Classification refer to ENR 3.1-1
KAE R 128/30 DME KPO R 001/88 DME						
△ NOBUT 370715N 1291957E	19.3					
△ LOSTO 362016N 1292548E	183° 003°	UNL 9 000 (6 400) Class A, D, G				
▲ POHANG VORTAC(KPO) 355838N 1292828E	47.2					
	183° 003°	UNL 9 000 (3 300) Class A, D, G				
▲ POHANG VORTAC(KPO) 355838N 1292828E	21.7					
	213° 032°	UNL 9 000 (4 200) Class A, D, G				
△ APARU 352442N 1290932E	37.2					
	213° 032°	UNL 9 000 (4 400) Class A, D, G				
▲ BUSAN VORTAC(PSN) 350721N 1285958E	19.0			↑		

Change : Amended phrase(1290932 → 1290932E).

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

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

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