

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

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		
<b>A586*</b> △ TENAS 373820N 1313427E	<div>227° 047°</div> <div>UNL FL 310(4 600) Class A, G</div>						10	↓	<b>Daegu ACC</b>  FREQ : 122.25 MHz 134.175 MHz 120.575 MHz 125.925 MHz 122.75 MHz <sup>1)</sup>  1) Common frequency  Airspace Classification refer to ENR 3.1-1
△ AGSUS 364521N 1304044E									
▲ DABIK 361743N 1301143E	36.2								
▲ BULGA 355609N 1294924E	228° 048°								
▲ BEDOM 352513N 1291754E	28.1								
△ BUSAN VORTAC(PSN) 350721N 1285958E	228° 048°		<div>UNL FL 310(2 900) Class A, G</div>						
△ OMOTU 350033N 1285022E	40.2		<div>UNL FL 310(4 000) Class A, G</div>						
▲ TOPAX 344555N 1282952E	228° 047°		<div>UNL FL 310(4 000) Class A, G</div>						
▲ GOSBO 341517N 1274734E	237° 057°		(79/78) <div>UNL** 11 000</div>		<div>10 000 8 000(3 500) Class D</div>		<b>Daegu ACC</b>  FREQ : 125.375 MHz 124.575 MHz 122.75 MHz <sup>2)</sup>  2) Common frequency  Airspace Classification refer to ENR 3.1-1		
▲ MAKET 335452N 1271953E	10.4				<div>10 000 8 000(3 200) Class D</div>				
△ ATINA 334320N 1270423E	237° 057°				<div>10 000 8 000(2 800) Class D</div>				
△ MANOL 333629N 1265514E	22.3				<div>10 000 8 000(2 000) Class D</div>				
△ JEJU VORTAC(CJU) 332305N 1263727E	237° 056°				<div>10 000 8 000(1 500) Class D</div>				
▲ TOSAN 330012N 1264619E	30.7				<div>10 000 8 000(1 500) Class D</div>				
▲ RUGMA(FIR BDRY) 323012N 1265753E 323000N 1265800E <sup>4)</sup>	236° 056°				<div>10 000 9 000(8 700) Class D</div>				
17.3		<div>10 000 8 000(1 500) Class D</div>							
10.3		<div>10 000 9 000(8 700) Class D</div>							
20.0		<div>10 000 9 000(8 700) Class D</div>							
169° 349°		<div>UNL 9 000(8 700) Class A, D, G</div>		↑		4) <i>BESSEL datum</i>			
24.0		<div>UNL 9 000(1 500) Class A, D, G</div>							
169° 349°		31.5							
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 Daegu ACC before flight planning.

Change : Information of Daegu ACC FREQ(128.175 MHz → 122.25 MHz) and remark(Incheon ACC → 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
FUKUOKA FIR						
INCHEON FIR						
<b>A593</b>						<b>Incheon ACC</b>
▲ ONIKU(FIR BDRY) 321142N 1263917E	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 <sup>1)</sup> (Below FL 335) 125.725 MHz 132.825 MHz 128.375 MHz 132.20 MHz <sup>1)</sup> 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						
<p>1. Delegation</p> <p>The responsibility of Air Traffic Services in the scope below within Incheon FIR is delegated to Shanghai ACC.</p> <ul style="list-style-type: none"> <li>- Horizontal scope : 320229N 1240000E - 321540N 1250000E - 312356N 1250000E - 311043N 1240000E</li> <li>- Vertical scope : FL 240 through FL 410 inclusive</li> </ul> <p>2. Flight Level Allocation Scheme (FLAS)</p> <p>(1) The west of SADLI</p> <ul style="list-style-type: none"> <li>- Eastbound : FL 250, FL 270, FL 290, FL 310, FL 330, FL 350, FL 370, FL 390, FL 410</li> <li>- Westbound : FL 240, FL 260, FL 280, FL 300, FL 320, FL 340, FL 360, FL 380, FL 400</li> </ul> <p>(2) The east of SADLI</p> <ul style="list-style-type: none"> <li>- Eastbound(From Shanghai FIR To Fukuoka FIR) : FL 250, FL 290, FL 310, FL 390</li> <li>- Westbound(From Fukuoka FIR To Shanghai FIR) : FL 240, FL 280, FL 300, FL 400</li> </ul>						
<b>A595</b>						<b>Incheon ACC</b>
△ JEJU VORTAC(CJU) 332305N 1263727E	089° 269°	UNL 9 000 (8 700)  Class A, D, G	8	↓		FREQ : 124.525 MHz 132.425 MHz 132.20 MHz <sup>2)</sup> 2) Common frequency  Airspace Classification refer to ENR 3.1-1
▲ TAMNA 332815N 1271953E	35.9					
▲ SAMDO(FIR BDRY) 333503N 1281857E 333451N 1281905E <sup>5)</sup>	089° 270°	UNL 9 000 (1 500)  Class A, D, G			↑	<b>Daegu ACC</b>
	49.8					FREQ : 128.175 MHz 128.325 MHz 122.75 MHz <sup>3)</sup> 3) Common frequency  Airspace Classification refer to ENR 3.1-1
	5) BESSEL datum					
INCHEON FIR						
FUKUOKA FIR						

Change : Information of reporting requirements 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						
<b>B332</b>						<b>Daegu ACC</b>
▲ KANSU(FIR BDRY) 383800N 1322830E	180° 360°	UNL FL 200 (1 500)  Class A, G	50	↓		FREQ : 122.25 MHz 125.925 MHz 122.75 MHz <sup>1)</sup>  1) Common frequency  Airspace Classification refer to ENR 3.1-1
△ PALDU 375813N 1323625E	40.2 180° 360°					
△ SABET 373829N 1324019E	19.9 180° 360°					
▲ IGRAS(FIR BDRY) 371846N 1324411E	19.9					
INCHEON FIR						
FUKUOKA FIR						
<b>B467</b>						
△ GANGWON VORTAC(KAE) 374203N 1284514E	100° 280°	UNL 8 000 (7 100)	10	↓		<b>Daegu ACC</b>  FREQ : 122.25 MHz 134.175 MHz 125.925 MHz 122.75 MHz <sup>2)</sup>  2) Common frequency  Airspace Classification refer to ENR 3.1-1
▲ NOMEX 374112N 1294441E	47.2	Class A, D, G				
△ BUSKO 374033N 1301610E	25.0	UNL 8 000 (1 500)				
△ TENAS 373820N 1313427E	62.2	UNL 8 000 (4 600)				
△ MALSO 375440N 1314904E	20.0 044° 225°	UNL FL 200 (1 500)  Class A, G	50			
▲ KANSU(FIR BDRY) 383800N 1322830E	53.3					
INCHEON FIR						
PYONGYANG FIR						

Change : Information of reporting requirements for B332 and B467.

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
<b>B576*</b>							
△ ANYANG VORTAC(SEL) 372449N 1265542E	174° 354°	<u>UNL</u> 4 500 (3 400)  Class A, D, G		10		↓	<b>Daegu ACC</b> FREQ : 132.80 MHz 128.70 MHz 122.75 MHz <sup>1)</sup> 1) Common frequency  Airspace Classification refer to ENR 3.1-1
△ POLEG 371249N 1265935E	12.4						
△ SONGTAN VORTAC(SOT) 370540N 1270154E	174° 354°						
▲ OLMEN 364413N 1265928E	7.4						
▲ ENTEL 362311N 1265705E	194° 014°	(2 800)					
	21.5						
▲ ENTEL 362311N 1265705E	194° 014°	13 000 7 000  (3 600)					
	21.1						
△ RINBO 355352N 1265349E	194° 013°	Class D  (3 100)					
	29.4						
▲ LINTA 353116N 1265119E	193° 013°	<u>UNL**</u> FL 140  (3 400)					
	22.7						
△ GWANGJU VOR(KWA) 350734N 1264844E	193° 013°	Class A, D, G  (4 700)					
	23.8						
▲ IPDAS 341515N 1264301E	193° 012°	13 000 8 000 (4 700)					
	52.5						
△ JEJU VORTAC(CJU)	193° 012°	Class D  <u>UNL**</u> FL 140					
	52.3						
332305N 1263727E							
▲ SOSDO 330012N 1262735E	207° 027°	<u>UNL</u> 9 000 (8 700)  Class A, D, G		↑			<b>Incheon ACC</b> FREQ : 123.725 MHz 124.50 MHz 132.20 MHz <sup>3)</sup> 3) Common frequency Airspace Classification refer to ENR 3.1-1
	24.3						
207° 027°	<u>UNL</u> 8 000 (1 500)  Class A, D, G						
29.5							
△ SAMLO 323223N 1261536E	207° 027°						
△ NIRAT 320354N 1260329E	30.2						
△ ELGEP 314653N 1255617E	207° 027°						
	18.1						
▲ TESIM 313526N 1255128E	207° 027°						
	12.1						
▲ ATOTI(FIR BDRY) 300013N 1251154E 300000N 1251200E <sup>2)</sup>	207° 027°						
	100.9						
INCHEON FIR	2) BESSEL datum						
FUKUOKA FIR							
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 : Information of reporting requirements for B576.

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
<b>G339</b> △ BUSAN VORTAC(PSN) 350721N 1285958E  ▲ INVOK(FIR BDRY) 344719N 1291923E 344708N 1291931E <sup>2)</sup>  INCHEON FIR FUKUOKA FIR						
	$\frac{149^\circ}{330^\circ}$  25.6	UNL 10 000 (3 400)  Class A, D, G	8	↓		<b>Daegu ACC</b>  FREQ : 125.375 MHz 125.775 MHz 124.575 MHz 122.75 MHz <sup>1)</sup> 1) Common frequency
	2) BESSEL datum				↑	Airspace Classification refer to ENR 3.1-1

Change : Information of reporting requirements for G339.

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
<b>G585</b>							<b>Daegu ACC</b>
△ ANYANG VORTAC(SEL) 372449N 1265542E	<div><div>133° 313°</div><div>10.7</div></div>		<div><div>UNL</div><div>8 000 (3 400)</div><div>Class A, D, G</div></div>	8	↓		FREQ : 132.80 MHz 128.70 MHz 118.925 MHz 120.525 MHz 122.75 MHz <sup>1)</sup>  1) Common frequency  Only flying westbound from KPO to SEL on G585 is authorized except ACFT departing from RKTY or RKTl.  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	<div><div>133° 313°</div><div>19.3</div></div>						
△ KAKSO 370745N 1272637E	<div><div>133° 313°</div><div>11.5</div></div>						
▲ GUKDO 370111N 1273823E	<div><div>133° 313°</div><div>9.2</div></div>	(50/32)	<div><div>UNL</div><div>8 000 (3 600)</div><div>Class A, D, G</div></div>				
△ ENSAL 365554N 1274747E	<div><div>133° 314°</div><div>9.2</div></div>						
△ BASEM 365037N 1275710E	<div><div>134° 314°</div><div>12.5</div></div>						
▲ BIGOB 364325N 1280952E	<div><div>134° 314°</div><div>9.5</div></div>	(34/34)	<div><div>UNL</div><div>8 000 (4 900)</div><div>Class A, D, G</div></div>				2) Common frequency  Only flying westbound from KPO to SEL on G585 is authorized except ACFT departing from RKTY or RKTl.  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
△ YECHEON VOR(CUN) 363755N 1281931E	<div><div>133° 313°</div><div>30.8</div></div>						
△ ELAPI 362014N 1285051E	<div><div>133° 314°</div><div>37.3</div></div>						
△ POHANG VORTAC(KPO) 355838N 1292828E	<div><div>107° 287°</div><div>17.2</div></div>		<div><div>UNL</div><div>8 000 (3 500)</div><div>Class A, D, G</div></div>				
▲ BULGA 355609N 1294924E	<div><div>107° 287°</div><div>44.4</div></div>						
▲ SAPRA(FIR BDRY) 354926N 1304325E 354915N 1304334E <sup>3)</sup>	3) BESSEL datum						
INCHEON FIR							
FUKUOKA FIR							

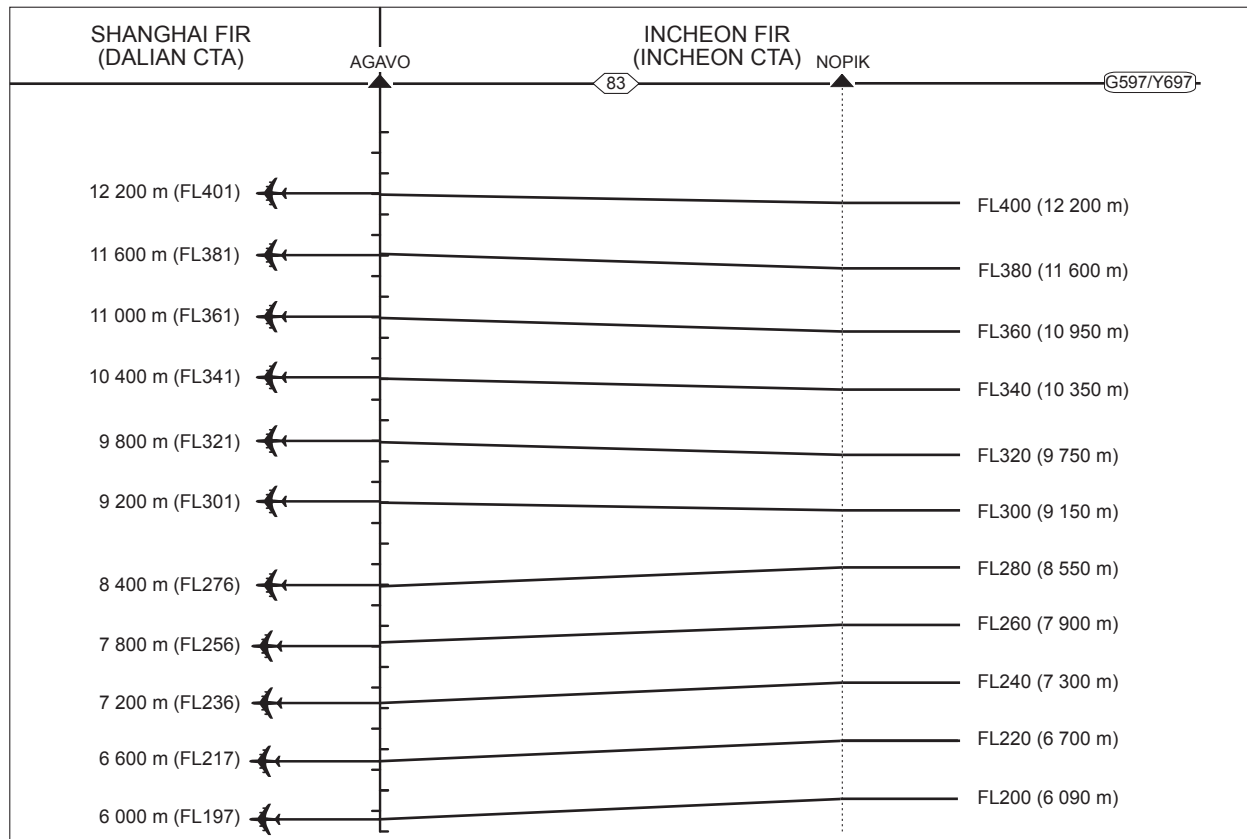
Change : Information of reporting requirements for G585.

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						
<b>G597</b>						<b>Daegu ACC</b>
▲ AGAVO(FIR BDRY) 371010N 1235953E 371000N 1240000E <sup>5)</sup>	096° 276° 20.0	UNL FL 150 (1 500) Class A, D, G	10			FREQ : 128.70 MHz 132.80 MHz 122.75 MHz <sup>1)</sup> 1) Common frequency
△ GONAV 371048N 1242453E	066° 246°					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	13.8 066° 247°					* Note G597 is only for Non-RNAV aircraft. Any aircraft approved for RNAV operations should use Y697.
△ ANSIM 372323N 1245009E	10.0 097° 277°					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	19.0 097° 278°	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	20.0 098° 278°					REF. ENR 3.1-9 for the detailed altitude conversion procedures.
△ GOGET 372442N 1263036E	41.0 098° 278°	UNL 8 000 (3 400) Class A, D, G				
△ ANYANG VORTAC(SEL) 372449N 1265542E	20.0 087° 267°	UNL 7 500 (3 500) Class A, D, G		↓	↑	<b>Daegu ACC</b> FREQ : 132.80 MHz 118.925 MHz 122.75 MHz <sup>2)</sup> 2) Common frequency
△ EGOBA 372915N 1272246E	22.0 087° 267°	UNL 7 500 (5 100) Class A, D, G				
▲ KARBU 373159N 1273952E	13.9 087° 268°	UNL 7 500 (5 600) Class A, D, G				<b>Daegu ACC</b> FREQ : 134.175 MHz 123.65 MHz 122.75 MHz <sup>3)</sup> 3) Common frequency
▲ TORUS 373625N 1280807E	22.9 087° 268°	UNL 7 500 (7 500) Class A, D, G				Airspace Classification refer to ENR 3.1-1
▲ BIKSI 374032N 1283504E	21.8 088° 268°	UNL 7 500 (7 100) Class A, D, G				
△ GANGWON VORTAC(KAE) 374203N 1284514E	8.2 130° 310°	UNL 8 000 (7 100) Class A, D, G				<b>Daegu ACC</b> FREQ : 134.175 MHz 123.65 MHz 122.75 MHz <sup>4)</sup> 4) Common frequency
▲ PILIT 372631N 1291731E	30.0 130° 310°	UNL 9 000 (3 100) Class A, D, G				Only flying westbound from LANAT to KAE on G597 shall get 24 HR PPR from Daegu ACC.
▲ NIMUS 371210N 1294656E	27.5 130° 311°	UNL 9 000 (1 500) Class A, D and G				Airspace Classification refer to ENR 3.1-1
△ AGSUS 364521N 1304044E	50.8 131° 311°					
▲ LANAT(FIR BDRY) 362224N 1312542E 362213N 1312551E <sup>5)</sup>	42.9				↑	
INCHEON FIR	5) BESSEL datum					
FUKUOKA FIR						

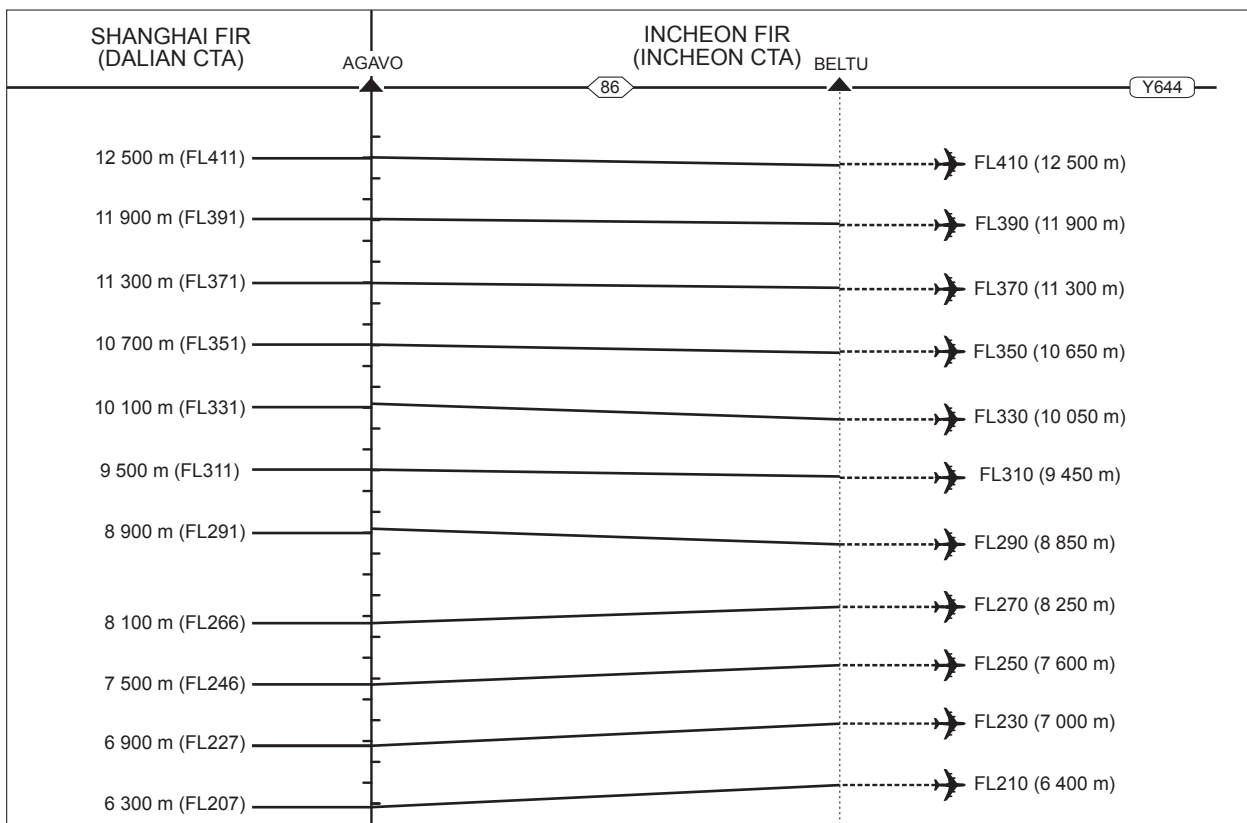
Change : Information of reporting requirements for G597.



### ALTITUDE CONVERSION FROM INCHEON CTA TO DALIAN CTA (RVSM)



### FROM DALIAN CTA TO INCHEON CTA



Change : Information of altitude conversion.



INTENTIONALLY

LEFT

BLANK

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
<b>V11</b>						
▲ PILIT 372631N 1291731E  KAE R 128/30 DME KPO R 001/88 DME	183° 003°	UNL 9 000 (7 000)  Class A, D, G	8		↓	<b>Daegu ACC</b>  FREQ : 134.175 MHz 120.575 MHz 123.65 MHz 119.375 MHz 122.75 MHz <sup>1)</sup> 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
▲ NOBUT 370715N 1291957E	19.3					
	183° 003°	UNL 9 000 (6 400)				
▲ LOSTO 362016N 1292548E	47.2	Class A, D, G				
	183° 003°	UNL 9 000 (3 300)				
△ POHANG VORTAC(KPO) 355838N 1292828E	21.7	Class A, D, G				
	213° 032°	UNL 9 000 (4 200)				
▲ APARU 352442N 1290932E	37.2	Class A, D, G				
	213° 032°	UNL 9 000 (4 400)				
△ BUSAN VORTAC(PSN) 350721N 1285958E	19.0	Class A, D, G		↑		

Change : Information of reporting requirements for V11.

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				
<b>V543</b> △ 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							<b>Incheon ACC</b>  FREQ : 120.725 MHz 128.30 MHz 123.725 MHz 124.50 MHz 132.20 MHz <sup>1)</sup> 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	↓					
	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  (25/83)	UNL 8 000 (8 000) Class A, D, G									
		UNL 8 000 (3 800) Class A, D, G									
		UNL 8 000 (4 000) Class A, D, G									
		UNL 8 000 (3 500) Class A, D, G									
									<b>Daegu ACC</b>  FREQ : 125.375 MHz 125.775 MHz 124.575 MHz 122.75 MHz <sup>2)</sup> 2) Common frequency  Airspace Classification refer to ENR 3.1-1		
	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									
									<b>Incheon ACC</b>  FREQ : 123.725 MHz 124.50 MHz 132.20 MHz <sup>3)</sup> 3) Common frequency  Airspace Classification refer to ENR 3.1-1		
072° 253° 54.7		10 000 9 000 (8 600) Class D		10			↓				
073° 254° 41.6	(48/48)	10 000 9 000 (5 000) Class D									
						<b>Daegu ACC</b>  FREQ : 125.375 MHz 125.775 MHz 124.575 MHz 122.75 MHz <sup>4)</sup> 4) Common frequency  Airspace Classification refer to ENR 3.1-1					
<b>V547</b> △ GWANGJU VOR(KWA) 350734N 1264844E  ▲ IGDOK 353104N 1274907E  △ DALSEONG VORTAC(TGU) 354835N 1283527E							<b>Incheon ACC</b>  FREQ : 123.725 MHz 124.50 MHz 132.20 MHz <sup>3)</sup> 3) Common frequency  Airspace Classification refer to ENR 3.1-1				
	072° 253° 54.7		10 000 9 000 (8 600) Class D		10	↓					
	073° 254° 41.6	(48/48)	10 000 9 000 (5 000) Class D								
						<b>Daegu ACC</b>  FREQ : 125.375 MHz 125.775 MHz 124.575 MHz 122.75 MHz <sup>4)</sup> 4) Common frequency  Airspace Classification refer to ENR 3.1-1					

Change : Information of reporting requirements for V543 and V547.

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				
<b>V549</b>							<b>Incheon ACC</b> FREQ : 132.15 MHz 126.175 MHz 123.55 MHz 134.375 MHz 132.20 MHz <sup>1)</sup>  1) Common frequency  Airspace Classification refer to ENR 3.1-1				
△ GUNSAN VORTAC(KUZ) 355437N 1263641E	101° 281°	(49/48)	<u>10 000</u> 7 000 (1 800) Class D	10	↓						
△ ELPOS 355410N 1264707E	8.5 101° 281°										
△ RINBO 355352N 1265349E	5.5 101° 282°										
△ MELES 355251N 1271542E	17.8 102° 282°		<u>10 000</u> 7 000 (3 500) Class D								
△ OPEDA 355149N 1273652E	17.2 102° 282°		<u>10 000</u> 7 000 (5 000) Class D								
△ DALSEONG VORTAC(TGU) 354835N 1283527E	47.7 085° 265°		<u>10 000</u> 7 000 (6 600) Class D								
▲ LAPAL 355413N 1290452E	24.6 085° 265°	<u>UNL</u> 6 000 (5 400)  Class A, D, G									
△ POHANG VORTAC(KPO) 355838N 1292828E	19.7										
								<b>Daegu ACC</b> FREQ : 125.375 MHz 125.775 MHz 124.575 MHz 122.75 MHz <sup>2)</sup>  2) Common frequency  Airspace Classification refer to ENR 3.1-1  TGU is used between TGU and KPO.			
<b>W45</b>											
△ GWANGJU TACAN(KWJ) 350723N 1264810E	097° 278°	(23/85)	<u>UNL</u> 8 000 (8 000)  Class A, D, G	10	↓						
△ RIMPO 350739N 1273502E	38.4 098° 278°						<u>UNL</u> 8 000 (8 000)				
▲ RUNIT 350734N 1282952E	45.1 098° 279°		<u>UNL</u> 8 000 (4 000)  Class A, D, G								
△ BUSAN VORTAC(PSN) 350721N 1285958E	24.7		<u>UNL</u> 8 000 (4 000)  Class A, D, G								
							<b>Daegu ACC</b> FREQ : 125.375 MHz 125.775 MHz 124.575 MHz 122.75 MHz <sup>4)</sup>  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 reporting requirements for V549 and 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
<b>W61</b>						
△ SONGTAN VORTAC(SOT) 370540N 1270154E	$\frac{316^\circ}{136^\circ}$	<u>UNL</u> 8 000 (2 400)	10		↓	<b>Daegu ACC</b>  FREQ : 128.70 MHz 132.80 MHz 122.75 MHz <sup>1)</sup> <i>1) Common frequency</i>  Airspace Classification refer to ENR 3.1-1
▲ MONSI 371247N 1265015E	11.7	Class A, D, G				
	$\frac{316^\circ}{136^\circ}$	<u>UNL</u> 8 000 (3 200)				
△ GOGET 372442N 1263036E	19.7	Class A, D, G		↑		
<b>W62</b>						
△ SONGTAN VORTAC(SOT) 370540N 1270154E	$\frac{044^\circ}{224^\circ}$	<u>UNL</u> FL 140 (4 600)	10	↓		<b>Daegu ACC</b>  FREQ : 128.70MHz 132.80 MHz 122.75 MHz <sup>2)</sup> <i>2) Common frequency</i>  Airspace Classification refer to ENR 3.1-1
	28.8	Class A, D, G				
△ EGOBA 372915N 1272246E					↑	
<b>W526</b>						
△ DALSEONG VORTAC(TGU) 354835N 1283527E	$\frac{192^\circ}{012^\circ}$	<u>UNL</u> 5 000 (4 900)	10		↓	<b>Daegu ACC</b>  FREQ : 125.375 MHz 125.775 MHz 124.575 MHz 122.75 MHz <sup>3)</sup> <i>3) Common frequency</i>  Airspace Classification refer to ENR 3.1-1
▲ MASTA 352847N 1283340E	19.8	Class A, D, G				
	$\frac{192^\circ}{012^\circ}$	<u>UNL</u> 5 000 (3 800)				
▲ SARAM 350736N 1283147E	21.2	Class A, D, G				
	$\frac{192^\circ}{012^\circ}$	<u>UNL</u> 5 000 (3 200)				
▲ TOPAX 344555N 1282952E	21.7	Class A, D, G		↑		

Change : Information of reporting requirements for W61, W62 and W526.