

## 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  △ 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  INCHEON FIR FUKUOKA FIR						<b>Daegu ACC</b>  FREQ : (at or below FL295) 128.70(118.925) MHz 270.50(263.60) MHz  FREQ : (above FL 295) 132.80(120.525) MHz 290.60(335.45) MHz  <b>Airspace Classification</b> Class A : Above FL 200 - FL 600 Class D : MEA - FL 200 Class G : Above FL 600 - UNL  <b>Daegu ACC</b>  FREQ : 125.375(125.775, 124.575) MHz 234.15(317.35, 335.50) MHz  <b>Airspace Classification</b> 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°		Class A, D, G					
	7.4							
	144° 324°	(69/39)	UNL 8 000 (3 300)  Class A, D, G					
	21.6							
	144° 324°		UNL 8 000 (4 300)  Class A, D, G					
	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°							
	26.6							

Change : Information of title for ENR 3.1(lower ATS routes → conventional navigation 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>A586*</b> △ 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				10	↓	<b>Daegu ACC</b>  FREQ : 122.250(125.925) MHz 263.350(263.85) MHz  Airspace Classification refer to ENR 3.1-1  <b>Daegu ACC</b>  FREQ : 120.575(119.375, 119.325, 134.375) MHz 254.70(335.75) MHz  Airspace Classification refer to ENR 3.1-1  <b>Daegu ACC</b>  FREQ : 125.375(125.775, 124.575) MHz 234.15(317.35, 335.50) MHz  Airspace Classification refer to ENR 3.1-1  <b>Daegu ACC</b>  FREQ : 128.175(128.325) MHz 335.50(275.20) MHz  Airspace Classification refer to ENR 3.1-1  <b>Incheon ACC</b>  FREQ : 124.525(132.425) MHz 255.40(233.50, 348.10) MHz  Airspace Classification refer to ENR 3.1-1  ※ The cruising levels from CJU to RUGMA are even levels due to operational reasons.  ※ The cruising levels from RUGMA to CJU are odd levels due to operational reasons.		
	227° 047°	UNL FL 310(4 600) Class A, G						
	68.1	UNL FL 310(1 500) Class A, G						
	228° 048°							
	36.2	UNL FL 310(2 900) Class A, G						
	228° 048°							
	28.1	UNL FL 310(4 000) Class A, G						
	228° 048°							
	40.2	UNL FL 310(4 000) Class A, G						
	228° 047°							
	23.1	(79/78)  UNL** 11 000						
	237° 057°						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	UNL 9 000(8 700) Class A, D, G							
169° 349°								
24.0	UNL 9 000(1 500) Class A, D, G							
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.

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> ▲ ONIKU(FIR BDRY) 321142N 1263917E	263° 082°	UNL FL 240 (1 500)  Class A, G	50		↓	<b>Incheon ACC</b>  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  ※ 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						
<b>A595</b> △ JEJU VORTAC(CJU) 332305N 1263727E	089° 269°	UNL 9 000 (8 700)  Class A, D, G	8	↓		<b>Incheon ACC</b>  FREQ : 124.525(132.425) MHz 255.40(233.50, 348.10) MHz  Airspace Classification refer to ENR 3.1-1
▲ TAMNA 332815N 1271953E	35.9					
▲ SAMDO(FIR BDRY) 333503N 1281857E	089° 270°	UNL 9 000 (1 500)  Class A, D, G			↑	
	49.8					
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		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 : 122.250(125.925) MHz 263.350(263.85) MHz  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>						<b>Daegu ACC</b>
△ GANGWON VORTAC(KAE) 374203N 1284514E	100° 280°	UNL 8 000 (7 100)	10	↓		FREQ : (at or below FL 295) 134.175(123.65) MHz 272.40(233.60) MHz  FREQ : (above FL 295) 122.250(125.925) MHz 263.350(263.85) MHz  Airspace Classification refer to ENR 3.1-1
△ LESBU 374116N 1294104E	44.3 100° 280°	Class A, D, G UNL 8 000 (1 500)				
▲ UGOVI 374105N 1295051E	7.8 100° 280°	Class A, D, G UNL 8 000 (1 500)				
△ BUSKO 374033N 1301610E	20.1 100° 281°	Class A, D, G UNL 8 000 (4 600)				
△ TENAS 373820N 1313427E	62.2 044° 224°	Class A, D, G UNL FL 200 (1 500)	50			<b>Daegu ACC</b>  FREQ : 122.250(125.925) MHz 263.350(263.85) MHz  Airspace Classification refer to ENR 3.1-1
△ MALSO 375440N 1314904E	20.0 044° 225°	Class A, G				
▲ KANSU(FIR BDRY) 383800N 1322830E	53.3					
INCHEON FIR						
PYONGYANG FIR						

Change : Information of 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>							<b>Daegu ACC</b>
△ ANYANG VORTAC(SEL) 372449N 1265542E	174° 354°	<u>UNL</u> 4 500 (3 400)  Class A, D, G		10		↓	FREQ : (at or below FL 295) 128.70(118.925) MHz 270.50(263.60) MHz
△ POLEG 371249N 1265935E	12.4						
△ SONGTAN VORTAC(SOT) 370540N 1270154E	174° 354°						
▲ OLMEAN 364413N 1265928E	7.4						
▲ ENTEL 362311N 1265705E	194° 014°	(2 800)					
▲ ENTEL 362311N 1265705E	21.5						
△ RINBO 355352N 1265349E	194° 014°	13 000 7 000 (3 600)					
▲ LINTA 353116N 1265119E	21.1	Class D (3 100)					
△ GWANGJU VOR(KWA) 350734N 1264844E	194° 013°	UNL** FL 140 (3 400)					
▲ IPDAS 341515N 1264301E	193° 013°	Class A, D, G (4 700)					
△ JEJU VORTAC(CJU) 332305N 1263727E	193° 012°	(52/52)	13 000 8 000 (4 700) Class D	UNL** FL 140			
▲ SOSDO 330012N 1262735E	52.5						
△ SAMLO 323223N 1261536E	193° 012°	(59/59)	13 000 7 000 (3 600)	UNL** FL 140			
△ NIRAT 320354N 1260329E	52.3						
△ ELGEP 314653N 1255617E	207° 027°	(52/52)	13 000 9 000 (8 700) Class D	UNL** FL 140			
▲ TESIM 313526N 1255128E	207° 027°						
▲ ATOTI(FIR BDRY) 300013N 1251154E	18.1	(52/52)	13 000 9 000 (8 700) Class D	UNL** FL 140			
	207° 027°						
INCHEON FIR	12.1	(52/52)	13 000 9 000 (8 700) Class D	UNL** FL 140			
FUKUOKA FIR	207° 027°						
							<b>Daegu ACC</b>
							FREQ : (at or below FL 295) 128.70(118.925) MHz 270.50(263.60) MHz
							FREQ : (above FL 295) 132.80(120.525) MHz 290.60(335.45) MHz
							Airspace Classification refer to ENR 3.1-1
							<b>Incheon ACC</b>
							FREQ : (at or below FL 255) 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
							* Note B576 is only used for Non-RNAV aircraft. Any aircraft approved for RNAV operations should use Y711 or Y722.
							<b>Incheon ACC</b>
							FREQ : (at or below FL 255) 120.725(128.30) MHz 263.90(272.75) MHz
							FREQ : (above FL 255) 123.725(124.50) MHz 239.25(275.40) MHz
							Airspace Classification refer to ENR 3.1-1
							<b>Incheon ACC</b>
							FREQ : 124.525(132.425) MHz 255.40(233.50, 348.10) MHz
							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.
							** Note Any southbound aircraft planning to operate below FL 320 between CJU and ATOTI must use Y711 until BONSO, then use Z86 to ATOTI.
							<b>Incheon ACC</b>
							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

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 remarks 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  INCHEON FIR FUKUOKA FIR						
	149° 330°  25.6	UNL 10 000 (3 400)  Class A, D, G	8	↓		<b>Daegu ACC</b>  FREQ : 125.375(125.775, 124.575) MHz 234.15(317.35, 335.50) MHz
					↑	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		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	133° 313° 10.7		UNL 8 000 (3 400)  Class A, D, G	8	↓		FREQ: (at or below FL 295) 128.70(118.925) MHz 270.50(263.60) MHz  FREQ : (above FL 295) 132.80(120.525) MHz 290.60(335.45) MHz  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.
△ KALMA 371845N 1270645E	133° 313° 19.3						
△ KAKSO 370745N 1272637E	133° 313° 11.5	(50/32)	UNL 8 000 (3 600)  Class A, D, G				
▲ GUKDO 370111N 1273823E	133° 313° 9.2		UNL 8 000 (3 700)  Class A, D, G				<b>Daegu ACC</b>
△ ENSAL 365554N 1274747E	133° 314° 9.2		UNL 8 000 (4 000)  Class A, D, G				FREQ : 125.375(125.775, 124.575) MHz 234.15(317.35, 335.50) MHz
△ BASEM 365037N 1275710E	134° 314° 12.5		UNL 8 000 (5 000)  Class A, D, G				Only flying westbound from KPO to SEL on G585 is authorized except ACFT departing from RKTY or RKTl.
▲ BIGOB 364325N 1280952E	134° 314° 9.5		UNL 8 000 (4 900)  Class A, D, G				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.
△ YECHEON VOR(CUN) 363755N 1281931E	133° 313° 30.8	(34/34)	UNL 8 000 (3 900)  Class A, D, G				No PPR is needed at or below 10 000 ft. Airspace Classification refer to ENR 3.1-1
△ 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						↑	
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		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) 371000N 1240000E	096° 276° 19.9	UNL FL 150 (1 500) Class A, D, G	10			FREQ : (at or below FL 295) 128.70(118.925) MHz 270.50(263.60) MHz
△ GONAV 371048N 1242453E	066° 246°					FREQ : (above FL 295) 132.80(120.525) MHz 290.60(335.45) MHz
▲ DANTI 371806N 1243929E	13.8 066° 247°					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.
△ ANSIM 372323N 1245009E	10.0 097° 277°					* Note G597 is only for Non-RNAV aircraft. Any aircraft approved for RNAV operations should use Y697.
▲ BINIL 372349N 1251359E	19.0 097° 278°					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.)
▲ NOPIK 372412N 1253905E	20.0 098° 278°					Aircraft flying eastbound from AGAVO to SEL on G597 shall get PPR 24 hours before from Incheon ACC.
△ GOGET 372442N 1263036E	41.0 098° 278°	UNL 8 000 (2 200) Class A, D, G				REF. ENR 3.1-9 for the detailed altitude conversion procedures.
△ ANYANG VORTAC(SEL) 372449N 1265542E	20.0 087° 267°	UNL 7 500 (3 500) Class A, D, G		↓	↑	
△ 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>
▲ TORUS 373625N 1280807E	22.9 088° 268°	UNL 7 500 (7 500) Class A, D, G				FREQ : (at or below FL 295) 134.175(123.65) MHz 272.40(233.60) MHz
▲ BIKSI 374032N 1283504E	21.8 088° 268°	UNL 7 500 (7 100) Class A, D, G				FREQ : (above FL 295) 122.250(125.925) MHz 263.350(263.85) MHz
△ GANGWON VORTAC(KAE) 374203N 1284514E	8.2 130° 310°	UNL 8 000 (7 100) Class A, D, G				Only flying westbound from LANAT to KAE on G597 shall get 24 HR PPR from Daegu ACC.
▲ PILIT 372631N 1291731E	30.0 130° 310°	UNL 9 000 (3 100) Class A, D, G				Airspace Classification refer to ENR 3.1-1
▲ ESNEG 371014N 1295051E	31.2 130° 311°	UNL 9 000 (1 500) Class A, D and G				
△ AGSUS 364521N 1304044E	47.1 131° 311°					
▲ LANAT(FIR BDRY) 362224N 1312542E	42.9				↑	
INCHEON FIR						
FUKUOKA FIR						

Change : Information of G597.

OFFICE OF CIVIL AVIATION

AIRAC AIP AMDT 4/24  
Effective : 1600UTC 12 JUN 2024



Altitude (m)	Flight Level (FL)
12 200	FL401
11 600	FL381
11 000	FL361
10 400	FL341
9 800	FL321
9 200	FL301
8 400	FL276
7 800	FL256
7 200	FL236
6 600	FL217
6 000	FL197

SHANGHAI FIR (DALIAN CTA) AGAVO INCHEON FIR (INCHEON CTA) BELTU Y644

12 500 m (FL411) FL410 (12 500 m)

11 900 m (FL391) FL390 (11 900 m)

11 300 m (FL371) FL370 (11 300 m)

10 700 m (FL351) FL350 (10 650 m)

10 100 m (FL331) FL330 (10 050 m)

9 500 m (FL311) FL310 (9 450 m)

8 900 m (FL291) FL290 (8 850 m)

8 100 m (FL266) FL270 (8 250 m)

7 500 m (FL246) FL250 (7 600 m)

6 900 m (FL227) FL230 (7 000 m)

6 300 m (FL207) FL210 (6 400 m)

OFFICE OF CIVIL AVIATION



INTENTIONALLY

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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
<b>V11</b>						<b>Daegu ACC</b>
▲ PILIT 372631N 1291731E			8		↓	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°	UNL 9 000 (7 000)  Class A, D, G				FREQ : (above FL 295) 122.250(125.925) MHz 263.350(263.85) MHz
▲ NOBUT 370715N 1291957E	183° 003°	UNL 9 000 (6 400)  Class A, D, G				1. 11 000 ft to FL 240, at or above FL 280 will be blocked.
▲ OSVOM 363844N 1292331E	28.6	UNL 9 000 (4 000)  Class A, D, G				2. At or above 11 000 ft, required 15 days PPR from Air Traffic Management Office.
▲ LOSTO 362016N 1292548E	183° 003°	UNL 9 000 (3 300)  Class A, D, G				3. Airspace Classification refer to ENR 3.1-1
△ POHANG VORTAC(KPO) 355838N 1292828E	21.7	UNL 9 000 (4 200)  Class A, D, G				<b>Daegu ACC</b>
▲ APARU 352442N 1290932E	37.2	UNL 9 000 (4 400)  Class A, D, G				FREQ : 120.575(119.375, 119.325, 134.375) MHz 254.70(335.75) MHz
△ BUSAN VORTAC(PSN) 350721N 1285958E	19.0	UNL 9 000 (4 400)  Class A, D, G		↑		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

Change : Information of 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	097° 277° 5.4		UNL 8 000 (2 500) Class A, D, G	10	↓		<b>Incheon ACC</b>  FREQ : (at or below FL 255) 120.725(128.30) MHz 263.90(272.75) MHz  FREQ : (above FL 255) 123.725(124.50) MHz 239.25(275.40) MHz  Airspace Classification refer to ENR 3.1-1
△ GWANGJU VOR(KWA) 350734N 1264844E	097° 277° 2.6		UNL 8 000 (2 000) Class A, D, G				
△ 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		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				
▲ 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						↑	
<b>V547</b>							
△ GWANGJU VOR(KWA) 350734N 1264844E	072° 253° 54.7		10 000 9 000 (8 600) Class D	10	↓		<b>Incheon ACC</b>  FREQ : (at or below FL 255) 120.725(128.30) MHz 263.90(272.75) MHz  FREQ : (above FL 255) 123.725(124.50) MHz 239.25(275.40) MHz  Airspace Classification refer to ENR 3.1-1
▲ IGDOK 353104N 1274907E	073° 254° 41.6		10 000 9 000 (5 000) Class D				
△ DALSEONG VORTAC(TGU) 354835N 1283527E						↑	
							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			
<b>V549</b>							<b>Incheon ACC</b>  FREQ : (at or below FL 255) 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			
△ 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°									
△ OPEDA 355149N 1273652E	17.2	<u>10 000</u> 7 000 (5 000) Class D								
	102° 282°	<u>10 000</u> 7 000 (5 000) Class D								
△ DALSEONG VORTAC(TGU) 354835N 1283527E	47.7		<u>10 000</u> 7 000 (6 600) Class D							
	085° 265°									
	085° 265°									
▲ LAPAL 355413N 1290452E	24.6	<u>UNL</u> 6 000 (5 400) Class A, D, G								
	085° 265°									
△ POHANG VORTAC(KPO) 355838N 1292828E	19.7				↑	<b>Daegu ACC</b> FREQ : 125.375(125.775, 124.575) MHz 234.15(317.35, 335.50) MHz  Airspace Classification refer to ENR 3.1-1  TGU is used between TGU and KPO.				
<b>W45</b>										<b>Incheon ACC</b>  FREQ : (at or below FL 255) 120.725(128.30) MHz 263.90(272.75) MHz  FREQ : (above FL 255) 123.725(124.50) MHz 239.25(275.40) MHz  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
△ GWANGJU TACAN(KWJ) 350723N 1264810E	097° 278°	(23/85)	<u>UNL</u> 8 000 (8 000) Class A, D, G	10	↓					
	38.4									
△ RIMPO 350739N 1273502E	098° 278°		<u>UNL</u> 8 000 (8 000) Class A, D, G							
	45.1		<u>UNL</u> 8 000 (4 000)							
▲ RUNIT 350734N 1282952E	098° 279°	<u>UNL</u> 8 000 (4 000) Class A, D, G								
	24.7									
△ BUSAN VORTAC(PSN) 350721N 1285958E								↑	<b>Daegu ACC</b> FREQ : 128.175(128.325) MHz 335.50(275.20) MHz  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	

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	316° 136°	UNL 8 000 (2 400)	10		↓	<b>Daegu ACC</b>  FREQ : (at or below FL 295) 128.70(118.925) MHz 270.50(263.60) MHz  FREQ : (above FL 295) 132.80(120.525) MHz 290.60(335.45) MHz
▲ MONSI 371247N 1265015E	11.7	Class A, D, G				
	316° 136°	UNL 8 000 (3 200)				
△ GOGET 372442N 1263036E	19.7	Class A, D, G		↑		Airspace Classification refer to ENR 3.1-1
<b>W62</b>						
△ SONGTAN VORTAC(SOT) 370540N 1270154E	044° 224°	UNL FL 140 (4 600)	10	↓		<b>Daegu ACC</b>  FREQ : (at or below FL 295) 128.70(118.925) MHz 270.50(263.60) MHz  FREQ : (above FL 295) 132.80(120.525) MHz 290.60(335.45) MHz
△ EGOBA 372915N 1272246E	28.8	Class A, D, G			↑	Airspace Classification refer to ENR 3.1-1
<b>W526</b>						
△ DALSEONG VORTAC(TGU) 354835N 1283527E	192° 012°	UNL 5 000 (4 900)	10		↓	<b>Daegu ACC</b>  FREQ : 125.375(125.775, 124.575) MHz 234.15(317.35, 335.50) MHz
▲ MASTA 352847N 1283340E	19.8	Class A, D, G				
	192° 012°	UNL 5 000 (3 800)				
▲ SARAM 350736N 1283147E	21.2	Class A, D, G				Airspace Classification refer to ENR 3.1-1
	192° 012°	UNL 5 000 (3 200)				
▲ TOPAX 344555N 1282952E	21.7	Class A, D, G		↑		

Change : Information of frequencies.