

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 |
| A582 | | | | | | |
| △ ANYANG VORTAC(SEL) 372449N 1265542E | 174° 354° | UNL 4 500 (3 400) | 10 | ↓ | | Daegu ACC FREQ : 132.80 MHz 118.925 MHz 122.75 MHz ¹⁾ 1) Common frequency |
| △ POLEG 371249N 1265935E | 174° 354° | Class A, D, G | | | | Airspace Classification 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 | | | | | Daegu ACC FREQ : 125.375 MHz 125.775 MHz 124.575 MHz 122.75 MHz ²⁾ 2) Common frequency |
| ▲ MAKDU 362712N 1274909E | 144° 324° 21.9 | UNL 8 000 (4 300) Class A, D, G | | | | Airspace Classification 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 | 162° 342° 26.6 | UNL 4 000 (3 000) Class A, D, G | | | ↑ | |
| INCHEON FIR FUKUOKA FIR | | | | | | |

Change : Withdrawal of Bessel datum for APELA.

| 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 | 227° 047° | 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⁾ <i>1) Common frequency</i> Airspace Classification refer to ENR 3.1-1 | | | | |
| △ AGSUS 364521N 1304044E | 68.1 | | | | | | | | | |
| ▲ DABIK 361743N 1301143E | 228° 048° | UNL FL 310(1 500) Class A, G | | | | | | | | |
| ▲ BULGA 355609N 1294924E | 36.2 | | | | | | | | | |
| ▲ BEDOM 352513N 1291754E | 228° 048° | UNL FL 310(2 900) Class A, G | | | | | | | | |
| △ BUSAN VORTAC(PSN) 350721N 1285958E | 28.1 | | | | | | | | | |
| | 228° 048° | UNL FL 310(4 000) Class A, G | | | | | | | | |
| △ OMOTU 350033N 1285022E | 40.2 | | | | | | | | | |
| | 228° 047° | | | | | | | | | |
| ▲ TOPAX 344555N 1282952E | 23.1 | | | | | | | | | |
| ▲ GOSBO 341517N 1274734E | 237° 057° | (79/78) | 10 000 8 000(3 500) Class D | | | | | Daegu ACC FREQ : 125.375 MHz 124.575 MHz 122.75 MHz ²⁾ <i>2) Common frequency</i> Airspace Classification refer to ENR 3.1-1 | | |
| | 10.4 | | | | | | | | | |
| ▲ MAKET 335452N 1271953E | 237° 057° | | 10 000 8 000(3 200) Class D | | | | | | | |
| | 22.3 | | | | | | | | | |
| ▲ TOSAN 330012N 1264619E | 237° 057° | | 10 000 8 000(2 800) Class D | | | | | | | |
| ▲ RUGMA(FIR BDRY) 323012N 1265753E | 46.4 | | | | | | | | | |
| | 237° 056° | | UNL** 11 000 | | | 10 000 8 000(2 000) Class D | | | | Daegu ACC FREQ : 128.175 MHz 128.325 MHz 122.75 MHz ³⁾ <i>3) Common frequency</i> Airspace Classification refer to ENR 3.1-1 |
| | 30.7 | | | | | | | | | |
| △ ATINA 334320N 1270423E | 236° 056° | | | | | 10 000 8 000(1 500) Class D | | | | |
| | 17.3 | | | | | | | | | |
| △ MANOL 333629N 1265514E | 236° 056° | | 10 000 8 000(1 500) Class D | | | | | | | |
| | 10.3 | | | | | | | | | |
| △ JEJU VORTAC(CJU) 332305N 1263727E | 235° 055° | | 10 000 9 000(8 700) Class D | | | | | | | |
| | 20.0 | | | | | | | | | |
| ▲ TOSAN 330012N 1264619E | 169° 349° | UNL 9 000(8 700) Class A, D, G | | | | | | | | |
| | 24.0 | | | | | | | | | |
| ▲ RUGMA(FIR BDRY) 323012N 1265753E | 169° 349° | UNL 9 000(1 500) Class A, D, G | | | | | | | | |
| | 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 : Withdrawal of Bessel datum for RUGMA.

| 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 | $\frac{263^\circ}{082^\circ}$ | 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 | $\frac{263^\circ}{083^\circ}$ | | | | | |
| ▲ SADLI 314948N 1250000E | 14.5 | | | | | |
| | $\frac{262^\circ}{082^\circ}$ | | | | | |
| ▲ LAMEN(FIR BDRY) 313636N 1240000E | 41.4 | | | | ↓ | |
| | $\frac{263^\circ}{082^\circ}$ | | | | | |
| | 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 | $\frac{089^\circ}{269^\circ}$ | 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 | $\frac{089^\circ}{270^\circ}$ | 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 : Withdrawal of Bessel datum for SAMDO.

| 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 | | | | | | Daegu ACC |
| ▲ 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 ¹⁾ 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 | | | | | | |
| B467 | | | | | | |
| △ GANGWON VORTAC(KAE) 374203N 1284514E | 100° 280° | UNL 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 |
| ▲ NOMEX 374112N 1294441E | 47.2 | Class A, D, G | | | | |
| | 100° 280° | UNL 8 000 (1 500) | | | | |
| △ BUSKO 374033N 1301610E | 25.0 | Class A, D, G | | | | |
| | 100° 281° | UNL 8 000 (4 600) | 50 | | | |
| △ TENAS 373820N 1313427E | 62.2 | Class A, D, G | | | | |
| | 044° 224° | UNL FL 200 (1 500) | | | | |
| △ MALSO 375440N 1314904E | 20.0 044° 225° | Class A, G | | | | |
| ▲ KANSU(FIR BDRY) 383800N 1322830E | 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 | | Lateral limits NM | Direction of cruising levels | | Remarks Controlling unit channel Logon address | |
|---|---|---|--------------------------------|-------------------------|---------------------------------|------|---|--|
| | | Airspace classification | | | Odd | Even | | |
| 1 | 2 | 3 | | 4 | 5 | | 6 | |
| B576* | | | | | | | Daegu ACC FREQ : 132.80 MHz 128.70 MHz 122.75 MHz ¹⁾ 1) Common frequency Airspace Classification refer to ENR 3.1-1 | |
| △ ANYANG VORTAC(SEL) 372449N 1265542E | 174° 354° | <u>UNL</u> | | 10 | | ↓ | | |
| △ POLEG 371249N 1265935E | 12.4 | 4 500 (3 400) | | | | | | |
| △ SONGTAN VORTAC(SOT) 370540N 1270154E | 174° 354° | Class A, D, G | | | | | 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 | 7.4 | | | | | | | |
| ▲ ENTEL 362311N 1265705E | 194° 014° | (59/59) KUZ R-060/ D 19.1 | 13 000 7 000 | (2 800) | | | Incheon ACC FREQ : 123.725 MHz 124.50 MHz 132.20 MHz ³⁾ 3) Common frequency Airspace Classification refer to ENR 3.1-1 | |
| △ RINBO 355352N 1265349E | 21.1 | | Class D | (3 600) | | | | |
| ▲ LINTA 353116N 1265119E | 194° 013° | | UNL** FL 140 | (3 100) | | | | |
| △ GWANGJU VOR(KWA) 350734N 1264844E | 29.4 | | Class A, D, G | (3 400) | | | | |
| ▲ IPDAS 341515N 1264301E | 193° 013° | | | (4 700) | | | | |
| △ JEJU VORTAC(CJU) | 23.8 | (52/52) | 13 000 8 000 (4 700) | | | | 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. | |
| 332305N 1263727E | 193° 012° | | Class D | UNL** FL 140 | | | | |
| ▲ SOSDO 330012N 1262735E | 52.3 | | | | | | | |
| △ SAMLO 323223N 1261536E | 207° 027° | | | | | | | |
| △ NIRAT 320354N 1260329E | 24.3 | | <u>UNL</u> 9 000 (8 700) | | | | 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 | |
| △ ELGEP 314653N 1255617E | 207° 027° | | Class A, D, G | | | | | |
| ▲ TESIM 313526N 1255128E | 207° 027° | | | | | | | |
| ▲ ATOTI(FIR BDRY) 300013N 1251154E | 30.2 | | <u>UNL</u> 8 000 (1 500) | | | | | |
| | 207° 027° | | Class A, D, G | | | | | |
| | 18.1 | | | | | | | |
| | 207° 027° | | | | | | | |
| | 12.1 | | | | | | | |
| | 207° 027° | | | | | | | |
| | 100.9 | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| INCHEON FIR 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 : Withdrawal of Bessel datum for ATOTI.

| 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 INCHEON FIR FUKUOKA FIR | | | | | | |
| | 149° 330° 25.6 | UNL 10 000 (3 400) Class A, D, G | 8 | ↓ | | Daegu ACC FREQ : 125.375 MHz 125.775 MHz 124.575 MHz 122.75 MHz ¹⁾ 1) Common frequency |
| | | | | | ↑ | Airspace Classification refer to ENR 3.1-1 |

Change : Withdrawal of Bessel datum for INVOK.

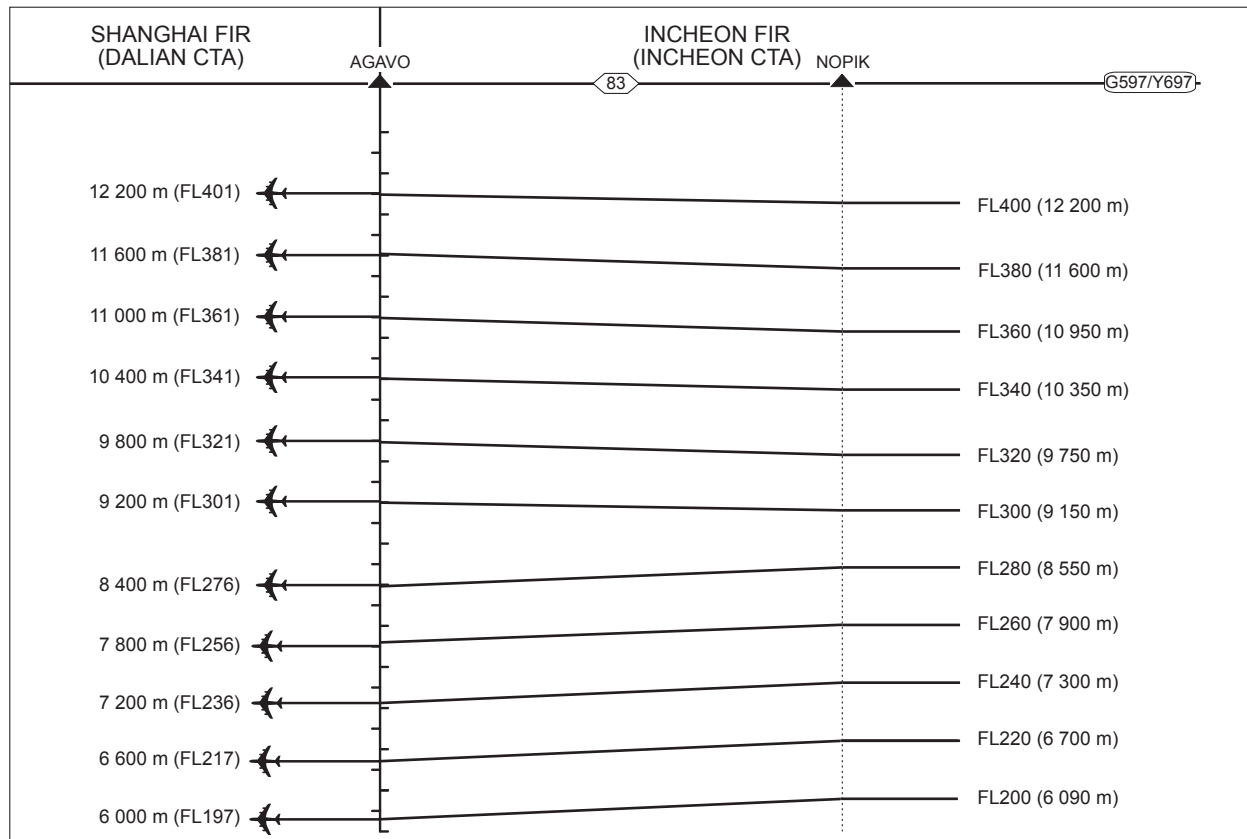
| Route designator (RNP/RNAV) Name of significant points Coordinates | Track MAG↑/↓ VOR RDL DIST (COP) | Upper limits Lower limits or Minimum altitude(MOCA) ft AMSL or FL | | Lateral limits NM | Direction of cruising levels | | Remarks Controlling unit channel Logon address |
|---|--|---|--|-------------------------|---------------------------------|------|---|
| | | Airspace classification | | | Odd | Even | |
| 1 | 2 | 3 | | 4 | 5 | | 6 |
| 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 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 | | | | | | | |
| △ KAKSO 370745N 1272637E | 133° 313° 19.3 | | | | | | |
| | 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 | | | | Daegu ACC |
| △ ENSAL 365554N 1274747E | 133° 314° 9.2 | | UNL 8 000 (4 000) Class A, D, G | | | | FREQ : 120.575 MHz 119.357 MHz 134.375 MHz 122.75 MHz ²⁾ |
| △ BASEM 365037N 1275710E | 134° 314° 12.5 | | UNL 8 000 (5 000) Class A, D, G | | | | 2) Common frequency |
| ▲ BIGOB 364325N 1280952E | 134° 314° 9.5 | | UNL 8 000 (4 900) Class A, D, G | | | | Only flying westbound from KPO to SEL on G585 is authorized except ACFT departing from RKTY or RKTl. |
| △ YECHEON VOR(CUN) 363755N 1281931E | 133° 313° 30.8 | (34/34) | UNL 8 000 (3 900) 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. |
| △ ELAPI 362014N 1285051E | 133° 314° 37.3 | | 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 |
| △ 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 | | | | | | | |

Change : Withdrawal of Bessel datum for SAPRA.

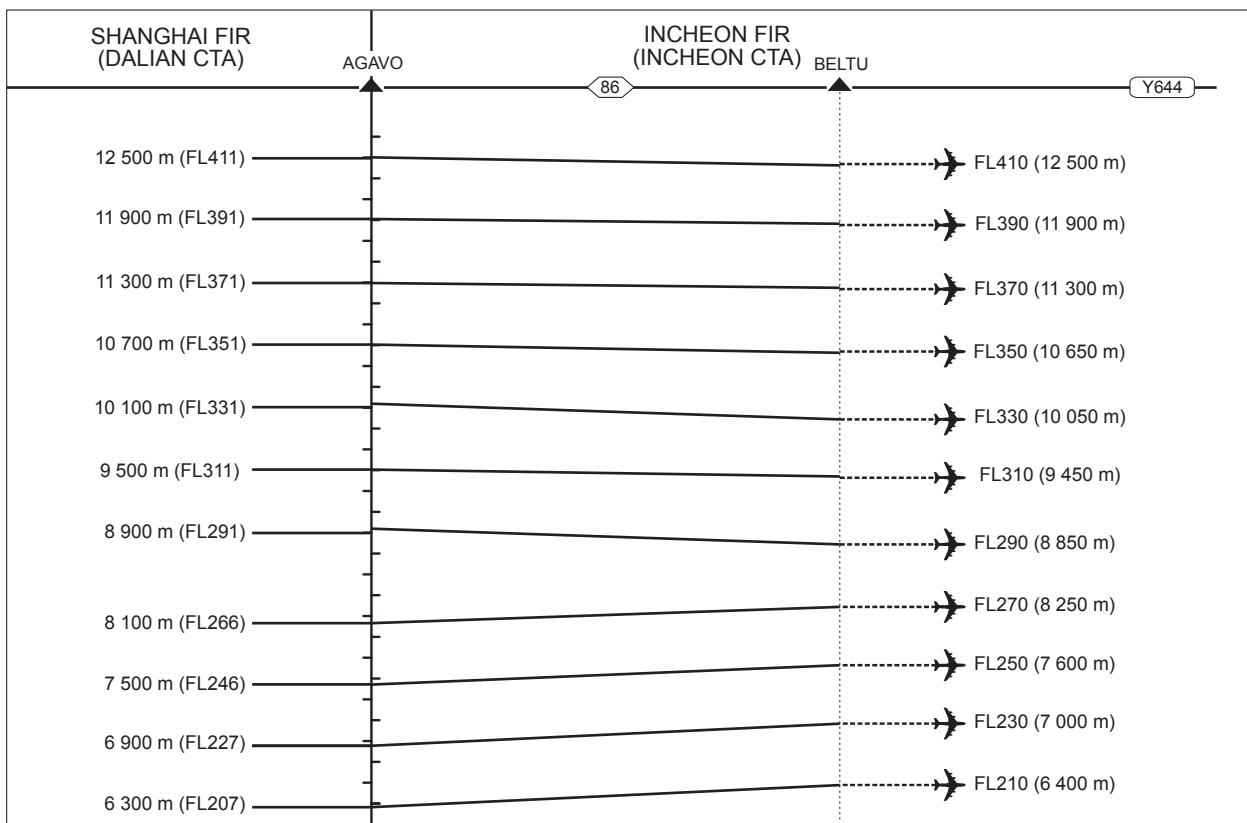
| Route designator (RNP/RNAV) Name of significant points Coordinates | Track MAG ↑/↓ VOR RDL DIST (COP) | Upper limits Lower limits or Minimum altitude(MOCA) ft AMSL or FL Airspace classification | Lateral limits NM | Direction of cruising levels | | Remarks Controlling unit channel Logon address |
|---|---|--|-------------------------|---------------------------------|------|---|
| | | | | Odd | Even | |
| 1 | 2 | 3 | 4 | 5 | | 6 |
| SHANGHAI FIR | | | | | | |
| INCHEON FIR | | | | | | |
| G597 | | | | | | Daegu ACC |
| ▲ AGAVO(FIR BDRY) 371010N 1235953E | 096° 276° | UNL FL 150 (1 500) Class A, D, G | 10 | | | FREQ : 128.70 MHz 132.80 MHz 122.75 MHz ¹⁾ 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 | | | | | 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 | 066° 247° | | | | | Aircraft flying eastbound from AGAVO to SEL on G597 shall get PPR 24 hours before from Incheon ACC. |
| ▲ NOPIK 372412N 1253905E | 10.0 | | | | | REF. ENR 3.1-9 for the detailed altitude conversion procedures. |
| △ GOGET 372442N 1263036E | 097° 277° | UNL 8 000 (2 200) Class A, D, G | | | | |
| ▲ ANYANG VORTAC(SEL) 372449N 1265542E | 19.0 | | | | | |
| △ EGOBA 372915N 1272246E | 097° 278° | UNL 8 000 (3 400) Class A, D, G | | | | |
| ▲ KARBU 373159N 1273952E | 20.0 | | | | | |
| ▲ TORUS 373625N 1280807E | 087° 267° | UNL 7 500 (3 500) Class A, D, G | | | | |
| ▲ BIKSI 374032N 1283504E | 22.0 | | | | | |
| △ GANGWON VORTAC(KAE) 374203N 1284514E | 087° 267° | UNL 7 500 (5 100) Class A, D, G | | | | |
| ▲ PILIT 372631N 1291731E | 13.9 | | | | | |
| ▲ NIMUS 371210N 1294656E | 087° 268° | UNL 7 500 (5 600) Class A, D, G | | | | |
| △ AGSUS 364521N 1304044E | 22.9 | | | | | |
| ▲ LANAT(FIR BDRY) 362224N 1312542E | 087° 268° | UNL 7 500 (7 500) Class A, D, G | | | | |
| | 21.8 | | | | | |
| | 088° 268° | UNL 7 500 (7 100) Class A, D, G | | | | |
| | 8.2 | | | | | |
| | 130° 310° | UNL 8 000 (7 100) Class A, D, G | | | | |
| | 30.0 | | | | | |
| | 130° 310° | UNL 9 000 (3 100) Class A, D, G | | | | |
| | 27.5 | | | | | |
| | 130° 311° | UNL 9 000 (1 500) Class A, D and G | | | | |
| | 50.8 | | | | | |
| | 131° 311° | | | | | |
| | 42.9 | | | | | |
| INCHEON FIR | | | | | | |
| FUKUOKA FIR | | | | | | |

Change : Withdrawal of Bessel datum for AGAVO and LANAT.

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 |
| V11 | | | | | | |
| ▲ 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 | | ↓ | 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 |
| ▲ 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 |
| V543 | | | | | | | |
| △ DALSU 350731N 1264206E | 097° 277° 5.4 | (25/83) | UNL 8 000 (2 500) Class A, D, G | 10 | ↓ | | 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 |
| △ 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 | | | | 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 | | | | |
| △ DALSEONG VORTAC(TGU) 354835N 1283527E | | | | | | ↑ | |
| | | | | | | | 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 |

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 | | | |
| V549 | | | | | | | Incheon ACC FREQ : 132.15 MHz 126.175 MHz 123.55 MHz 134.375 MHz 132.20 MHz ¹⁾ 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° | | | | | | | | | |
| ▲ 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 | | | | | | | | | |
| | | | | | | | | 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 TGU is used between TGU and KPO. | | |
| W45 | | | | | | | | | | |
| △ 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° | | | | | | | | | |
| ▲ RUNIT 350734N 1282952E | 45.1 098° 279° | | <u>UNL</u> 8 000 (8 000) Class A, D, G | | | | | | | |
| △ BUSAN VORTAC(PSN) 350721N 1285958E | 24.7 | | | | | | <u>UNL</u> 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) 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 |
| W61 | | | | | | |
| △ SONGTAN VORTAC(SOT) 370540N 1270154E | $\frac{316^\circ}{136^\circ}$ | <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 | | | | |
| | $\frac{316^\circ}{136^\circ}$ | <u>UNL</u> 8 000 (3 200) | | | | |
| △ GOGET 372442N 1263036E | 19.7 | Class A, D, G | | ↑ | | |
| W62 | | | | | | |
| △ SONGTAN VORTAC(SOT) 370540N 1270154E | $\frac{044^\circ}{224^\circ}$ | <u>UNL</u> FL 140 (4 600) | 10 | ↓ | | Daegu ACC FREQ : 128.70MHz 132.80 MHz 122.75 MHz ²⁾ <i>2) Common frequency</i> Airspace Classification refer to ENR 3.1-1 |
| | 28.8 | Class A, D, G | | | | |
| △ EGOBA 372915N 1272246E | | | | | ↑ | |
| W526 | | | | | | |
| △ DALSEONG VORTAC(TGU) 354835N 1283527E | $\frac{192^\circ}{012^\circ}$ | <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 | | | | |
| | $\frac{192^\circ}{012^\circ}$ | <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.