ENR 3. ATS ROUTES

ENR 3.1 CONVENTIONAL NAVIGATION ROUTES

3.1.1 INTERNATIONAL ATS ROUTES

| | | | | Upper limits Lower limits | | | ion of levels | |
|-------------|--|---|---------------|---|----------------|-------|------------------|----------------------------------|
| (RNF Nam | e designator P/RNAV) e of significant points | VOR F | MAG↑/↓ RDL | or Minimum altitude(MOCA) ft AMSL or FL Airspace classification | Lateral limits | Odd | Even | Remarks Controlling unit channel |
| 0001 | 1 | (001) | 2 | 3 | 4 | | 5 | 6 |
| | 7 1 A582 ANYANG VORTAC(SEL) 372449N 1265542E POLEG 371249N 1265935E SONGTAN VORTAC(SOT) 370540N 1270154E OSPOT 365018N 1272055E VASLI 364252N 1273003E | 174° 354° 12.4 174° 354° 7.4 144° 324° 10.4 144° 324° 14.6 144° 324° 14.6 144° 324° 14.6 144° 324° 14.6 144° 324° 14.6 144° 324° 14.6 144° 324° 14.6 144° 324° 14.6 | 2 (69/39) | UNL 4 500 (3 400) Class A, D, G UNL 8 000 (3 300) Class A, D, G UNL 8 000 (4 300) Class A, D, G UNL 8 000 (4 400) Class A, D, G UNL 10 000 (5 200) Class A, D, G UNL 4 000 (5 400) Class A, D, G | NM | Odd ! | | Logon address |
| | FUKUOKA FIR | | | | | | | |

| | | | | Up Lo | per limits wer limits | | | ion of levels | |
|-------------|---|-----------------------------------|---------------|------------------|---|-------------------------|----------|---------------|--|
| (RNF Nam | e designator P/RNAV) e of significant points dinates | Track I VOR R DIST (COP) | MAG↑/↓ !DL | Minimum ft Al | or altitude(MOCA) MSL or FL e classification | Lateral limits NM | Odd | Even | Remarks Controlling unit channel Logon address |
| | 1 | | 2 | | 3 | 4 | | 5 | 6 |
| | A586* | | | | | | | | |
| • | TENAS 373820N 1313427E | 2270 | | | LINII | 10 | | | _ |
| | 373020N 1313427L | 227° 047° | | FL 3 | UNL 310(4 600) | 10 | | * | Daegu ACC |
| \triangle | AGSUS | 68.1 | | Cli | ass A, G | | | | |
| | 364521N 1304044E | 228° | | | | | | | FREQ: 128.175 MHz |
| | | 048° | | | UNL | | | | 134.175 MHz 120.575 MHz |
| Δ | DABIK | 36.2 | | FL; | 310(1 500) | | | | 125.925 MHz |
| | 361743N 1301143E | 228° 048° | | | ass A, G | | | | 122.75 MHz ¹⁾ |
| \triangle | BULGA | 28.1 | | | | | | | 1) Common frequency |
| _ | 355609N 1294924E | | | | UNL | | | | Airspace Classification |
| | | 228° 048° | | FL: | 310(2 900) | | | | refer to ENR 3.1-1 |
| \triangle | BEDOM | 40.2 | | | ass A, G | | | | |
| | 352513N 1291754E | 228° | | _ | UNL | | | | |
| | DUIGANI MODTA O(DONI) | 047° | | | 310(4 000) | | | | |
| • | BUSAN VORTAC(PSN) 350721N 1285958E | 23.1 | | Ci | ass A, G | _ | | | |
| | 330721N 1203930E | 237° 057° | | | 10 000 | | | | Daegu ACC |
| | | 10.4 | | | 8 000(3 500) Class D | | | | FREQ : 125.375 MHz |
| Δ | OMOTU | 10.4 | | | Olass D | | | | 124.575 MHz |
| | 350033N 1285022E | 237° | | | 10 000 | | | | 122.75 MHz ²⁾ 2) Common frequency |
| | | 237° 057° | | | 8 000(3 200) | | | | |
| | T0541/ | 22.3 | | | Class D | | | | Airspace Classification refer to ENR 3.1-1 |
| • | TOPAX 344555N 1282952E | 0079 | | | 40.000 | | | | TOTAL TO LIVEY O.T. I |
| | 344333N 1202932E | 237° 057° | | | 10 000 8 000(2 800) | | | | Daegu ACC |
| \triangle | GOSBO | 46.4 | | | Class D | | | | FREQ: 128.175 MHz |
| | 341517N 1274734E | | | | | - | | | 128.325 MHz |
| | | 237° 056° | (79/78) | UNL** | 10 000 | | | | 122.75 MHz ³⁾ 3) Common frequency |
| | | | | 11 000 | 8 000(2 000) | | | | , |
| | MANGET | 30.7 | | | Class D | | | | Airspace Classification refer to ENR 3.1-1 |
| • | MAKET 335452N 1271953E | 0000 | | | 40.000 | | | | |
| | 333432N 127 1933L | 236° 056° | | | 10 000 8 000(1 500) | | | | Incheon ACC |
| Δ | ATINA | 17.3 | | | Class D | | | | FREQ: 124.525 MHz |
| | 334320N 1270423E | 236° | | | 10 000 | 1 | | | 132.425 MHz |
| | | 056° | | | 8 000(1 500) | | | | 132.20 MHz ⁴⁾ |
| \triangle | | 10.3 | | | Class D | 1 | | | 4) Common frequency |
| | 333629N 1265514E | 235° 055° | | | 10 000 | | | | Airspace_Classification |
| • | JEJU VORTAC(CJU) | 20.0 | | | 9 000(8 700) Class D | | | | refer to ENR 3.1-1 |
| _ | 332305N 1263727E | 169° | | | UNL | - | | | |
| | | 349° | | 9 0 | 00(8 700) | | | | * The cruising levels |
| \triangle | TOSAN | 24.0 | | Clas | s À, D, G | | | | from CJU to RUGMA are even levels due |
| | 330012N 1264619E | 169° | | _ | UNL | | | | to operational reasons. |
| | DUOMA/FID DDDY | 349° | | | 00(1 500) ss A, D, G | | | | * The cruising level |
| • | RUGMA(FIR BDRY) 323012N 1265753E | 31.5 | | Lias | ъ A, D, G | | <u> </u> | | * The cruising level from RUGMA to CJU |
| | 323000N 1265800E 4) | | | | | | | | are odd levels due to operational reasons. |
| | 3200011 1200000L | 4) <i>BES</i> | SEL datui | n | | | | | |
| | INCHEON FIR | | | | | | | | |
| | FUKUOKA FIR | | | | | | | | |

TENAS-PSN CDR1 Operational hour(UTC) - Weekdays: 1100-2200 - SAT: 2200 on the preceding until 2400 on the Saturday - SUN: 0000-2200 - Holiday: 1100 on the preceding until 2200 on the holiday. Rest of A586-PERM. See ENR 1.1-1.2.

Change: Information of controlling unit and frequencies for A586.

OFFICE OF CIVIL AVIATION Effective: 1600UTC 28 DEC 2022

^{*} 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.

| | | Upper limits Lower limits | | Direction of cruising levels | |
|---|--|---|-------------------------|------------------------------|---|
| Route designator (RNP/RNAV) Name of significant points Coordinates | Track MAG↑/↓ VOR RDL DIST (COP) | or Minimum altitude(MOCA) ft AMSL or FL Airspace classification | Lateral limits NM | Odd Even | Remarks Controlling unit channel Logon address |
| 1 | 2 | 3 | 4 | 5 | 6 |
| FUKUOKA FIR | | | | | |
| INCHEON FIR A593 ▲ ONIKU(FIR BDRY) 321142N 1263917E | 263° 082° | | 50 | | Incheon ACC FREQ: (At or above FL 335) 133.425 MHz |
| △ NIRAT 320354N 1260329E | 31.4 263° 083° | UNL | | | 134.15 MHz 132.20 MHz ¹⁾ (Below FL 335) 125.725 MHz 132.825 MHz 128.375 MHz 132.20 MHz ¹⁾ |
| △ PONIK 320021N 1254659E | 14.5 262° 082° | FL 240 (1 500) Class A, G | | | Common frequency Airspace Classification refer to ENR 3.1-1 |
| ▲ SADLI 314948N 1250000E | 41.4 263° 082° | _ | | 1 | Eastbound from SADLI to ONIKU is only for Non-approval of RNAV 2. Any aircraft approved for RNAV 2 operation should use Y590. |
| ▲ LAMEN(FIR BDRY) 313636N 1240000E | 52.8 | | | 1 | |
| INCHEON FIR | | | | | |
| SHANGHAI FIR | | | | | |
| 1 Delegation | | | | | |

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 VORTA 332305N 126 | ` ' | | 8 | | | Incheon ACC FREQ: 124.525 MHz 132.425 MHz |
|--------------------------------------|---------------------------|--|---|----------|----------|--|
| | 089° 269° 35.9 | UNL 9 000 (8 700) Class A, D, G | | | | 132.20 MHz ²⁾ 2) Common frequency Airspace Classification refer to ENR 3.1-1 |
| △ TAMNA 332815N 127 | 1953E <u>089°</u> 270° | UNL 9 000 (1 500) | | | • | Daegu ACC FREQ: 128.175 MHz 128.325 MHz 122.75 MHz ³⁾ |
| ▲ SAMDO(FIR 333503N 128 333451N 128 | 1857E | Class A, D, G | | | ↑ | 3) Common frequency Airspace Classification refer to ENR 3.1-1 |
| | ON FIR | | | | | |

Change: Information of controlling unit and frequency for A595.

OFFICE OF CIVIL AVIATION

AIRAC AIP AMDT 12/22

Effective: 1600UTC 28 DEC 2022

| | | | Linna P. 9 | | Discort 1 | |
|----------|------------------------------------|---------------|---------------------------|--------------|---------------------------------|--|
| | | | Upper limits Lower limits | | Direction of cruising levels | |
| | | | or | | craising levels | - |
| Route | e designator | Track MAG↑/↓ | Minimum altitude(MOCA) | | | |
| I(RNF | P/RNAV) | VOR RDL | ft AMSL or FL | Lateral | | Remarks |
| Name | e of significant points dinates | DIST (COP) | Airenaco classification | limits NM | Odd Even | Controlling unit channel Logon address |
| COOL | 1 | 2 | Airspace classification | 4 | 5 | 6 |
| | <u> </u> | Z | <u> </u> | 4 | 5 | 6 |
| | PYONGYANG FIR | | | | | 1 |
| | INCHEON FIR | | | | | |
| | B332 | | | | | D 400 |
| _ | KANSU(FIR BDRY) | | | 1 | | Daegu ACC |
| | 383800N 1322830E | <u>180</u> ° | | 50 | ↓ | |
| | | 360° | | | | FREQ: 122.25 MHz |
| _ | PALDU | 40.2 | | | | 125.925 MHz |
| | 375813N 1323625E | 180° | UNL | | | 122.75 MHz ¹⁾ |
| | 373013N 1323023E | 360° | FL 200 | | | 1) Common frequency |
| | | 360 | (1 500) | | | |
| • | SABET | 19.9 | | | | |
| | 373829N 1324019E | 180° | Class A, G | | | Airspace Classification |
| | | 360° | | | | refer to ENR 3.1-1 |
| | | | | | | |
| • | IGRAS(FIR BDRY) | 19.9 | | | | |
| | 371846N 1324411E | | | | | 1 |
| | | | | | | |
| | INCHEON FIR | | | | | |
| | FUKUOKA FIR | | | | | |
| | B467 | | | | | |
| | GANGWON VORTAC(KAE) | | | | | |
| | 374203N 1284514E | 4000 | UNL | 10 | | † |
| | 0.1200.1.120.01.12 | <u>100</u> ° | | | • | |
| | | 280° | 8 000 | | | Daegu ACC |
| | | | (7 100) | | | |
| _ | NOMEY | 47.2 | Class A. D. C | | | FREQ: 122.25 MHz |
| | NOMEX | | Class A, D, G | | | |
| | 374112N 1294441E | 100° | UNL | | | 134.175 MHz |
| | | 280° | 8 000 | | | 125.925 MHz |
| | | 200 | (1 500) | | | 122.75 MHz ²⁾ |
| | | 25.0 | | | | 2) Common frequency |
| | | | Class A, D, G | 1 | | |
| | 374033N 1301610E | 100° | UNL | | | |
| | | | 8 000 | | | Airspace Classification |
| | | 281° | (4 600) | | | refer to ENR 3.1-1 |
| | | 62.2 | (+ 000) | | | I FIEL TO FINK 9.1-1 |
| • | TENAS | 62.2 | Class A, D, G | | | |
| | 373820N 1313427E | 044° | 1 , , , | 50 | 1 | |
| | | 224° | 1,5 | - | | |
| | | 224 | UNL | | | |
| | MALSO | 20.0 | FL 200 | | | |
| - | 375440N 1314904E | 044° | (1 500) | | | |
| | 5. 5. 1611 1614004E | I | | | | |
| | | 225° | Class A, G | | | |
| • | KANSU(FIR BDRY) | 53.3 | | | | |
| - | 383800N 1322830E | 55.5 | | | | + |
| | 303000IN 132203UE | | | | | |
| | INCHEON FIR | | | | | |
| <u> </u> | INCHEON FIR | | | | | |
| | PYONGYANG FIR | | | | | |

| | | | Upper lin Lower lin | | | | tion of | |
|---|---|------------------|--|-----------------|-------------------------|----------|----------|--|
| Route designator (RNP/RNAV) Name of significant points Coordinates | Track MAG↑/↓ VOR RDL DIST (COP) | | or Minimum altitude(MOCA) ft AMSL or FL Airspace classification | | Lateral limits NM | Odd | Even | Remarks Controlling unit channel Logon address |
| 1 | | 2 | 3 | | 4 | | 5 | 6 |
| B576* ▲ ANYANG VORTAC(SEL) 372449N 1265542E | 174° 354° | | UNL | | 10 | | \ | Daegu ACC FREQ: 132.80 MHz 128.70 MHz |
| ▲ POLEG 371249N 1265935E | 12.4 174° 354° | | 4 500 (3 400) Class A, E | | | | | 122.75 MHz ¹⁾ 1) Common frequency Airspace Classification refer to ENR 3.1-1 |
| ▲ SONGTAN VORTAC(SOT) 370540N 1270154E | 7.4 194° 014° | | | (2 800) | | | | Incheon ACC FREQ: 126.175 MHz |
| △ OLMEN 364413N 1265928E | 21.5 194° 014° | | 13 000 7 000 | (3 600) | | | | 134.375 MHz 132.20 MHz ²⁾ 2) Common frequency Airspace Classification |
| △ ENTEL 362311N 1265705E | 21.1 194° 013° | (59/59) KUZ | Class D | (3 100) | | | | refer to ENR 3.1-1 * Note |
| △ RINBO 355352N 1265349E | 29.4 193° 013° | R-060/ D 19.1 | UNL** FL 140 | (3 400) | | | | B576 is only used for Non-RNAV aircraft. Any aircraft approved for RNAV operations should |
| △ LINTA 353116N 1265119E | 22.7 193° 013° | _ | Class A, D, G | | | | | use Y711 or Y722. |
| | 23.8 193° | | 13 000 | (4 700) | | | | FREQ: 123.725 MHz 124.50 MHz 132.20 MHz ³⁾ |
| △ IPDAS | 012° 52.5 | - | 8 000 (4 700) | | | | | Common frequency Airspace Classification refer to ENR 3.1-1 |
| 341515N 1264301E ▲ JEJU VORTAC(CJU) | 193° 012° 52.3 | (52/52) | Class D 13 000 9 000 (8 700) | UNL** FL 140 | | | | Incheon ACC FREQ: 124.525 MHz 132.425 MHz 132.20 MHz ⁴⁾ 4) Common frequency |
| 332305N 1263727E | 207° 027° | | Class D UNL 9 000 | | | | | Airspace Classification refer to ENR 3.1-1 ** Note |
| △ SOSDO | 027° 24.3 | | (8 700) Class A, D | | | | | Any aircraft planning to operate above FL 140 between SOT and CJU must coordinate with |
| 330012N 1262735E △ SAMLO | 207° 027° 29.5 | | | | | | | Incheon ACC before flight planning. |
| 323223N 1261536E | 207° 027° | | | | | | | Incheon ACC |
| △ NIRAT 320354N 1260329E | 30.2 207° 027° | | UNL 8 000 (1 500) | | | | | FREQ: (At or above FL 335) 133.425 MHz 132.425 MHz 132.20 MHz ⁵⁾ |
| △ ELGEP 314653N 1255617E | 18.1 207° 027° | | Class A, E | | | | | (below FL 335) 125.725 MHz 132.825 MHz |
| △ TESIM 313526N 1255128E | 12.1 207° 027° | | | | | | | 128.375 MHz 132.20 MHz ⁵⁾ 5) Common frequency |
| ▲ ATOTI(FIR BDRY) 300013N 1251154E 300000N 1251200E ²⁾ INCHEON FIR FUKUOKA FIR | 100.9 | SSEL dati | um | | | <u></u> | | Airspace Classification refer to ENR 3.1-1 |
| NAVAID(DME) GAP : Between | | | NA and 55 NM information. | from SC | T, below | / 10 000 | ft AMS | L, request to controller is |

Republic of Korea



| | | Upper limits Lower limits or | | | tion of g levels | |
|---|--|--|-------------------------|----------|---------------------|--|
| Route designator (RNP/RNAV) Name of significant points Coordinates | Track MAG↑/↓ VOR RDL DIST (COP) | Minimum altitude(MOCA) ft AMSL or FL Airspace classification | Lateral limits NM | Odd | Even | Remarks Controlling unit channel Logon address |
| 1 | 2 | 3 | 4 | | 5 | 6 |
| G339 ▲ BUSAN VORTAC(PSN) 350721N 1285958E | | | 8 | ↓ | | Daegu ACC |
| | 149° 330° | UNL 10 000 (3 400) | | | | FREQ: 125.375 MHz 125.775 MHz 124.575 MHz |
| ▲ INVOK(FIR BDRY) 344719N 1291923E | 25.6 | Class A, D, G | | | <u> </u> | 122.75 MHz ¹⁾ 1) Common frequency |
| 344708N 1291931E ²⁾ INCHEON FIR | 2) BESSEL date | um | | | | Airspace Classification refer to ENR 3.1-1 |
| FUKUOKA FIR | | | | | | |

| | | | Upper limits | | | tion of | |
|--|----------------------|-----------|--|---------|----------|----------|--|
| Route designator | | MAG↑/↓ | Lower limits or Minimum altitude(MOCA) | | cruising | g levels | |
| (RNP/RNAV) Name of significant points | VOR F | RDL | ft AMSL or FL | limits | 0.14 | F | Remarks Controlling unit channel |
| Coordinates 1 | (COP) | 2 | Airspace classification 3 | NM 4 | Odd | Even | Logon address |
| G585 ▲ ANYANG VORTAC(SEL) | | | | | | | Daegu ACC |
| 372449N 1265542E | | | | 8 | | | FREQ: 132.80 MHz |
| | 133° 313° 10.7 | | | | | | 128.70 MHz 118.925 MHz 120.525 MHz 122.75 MHz ¹⁾ |
| ▲ KALMA | | | UNL 8 000 | | | | 1) Common frequency |
| 371845N 1270645E | 133° 313° | | (3 400) Class A, D, G | | | | Only flying westbound from KPO to SEL on G585 is authorized except ACFT departing from RKTY or RKTI. |
| | 19.3 | | | | | | Aircraft flying eastbound from SEL to KPO at or |
| △ KAKSO 370745N 1272637E | | | | | | | above 11 000 ft on G585 shall get PPR 24 hours before from Daegu ACC. |
| | 133° 313° | | UNL | | | | No PPR is needed at or below 10 000 ft. Airspace Classification refer to ENR 3.1-1 |
| | 11.5 | (50/32) | (3 600) Class A, D, G | | | | |
| △ GUKDO 370111N 1273823E | | | UNL | | | | Daegu ACC |
| | 133° 313° | | 8 <u>000</u> (3 700) | | | | FREQ: 120.575 MHz 119.357 MHz |
| △ ENSAL 365554N 1274747E | 9.2 | | Class A, D, G UNL | | | | 134.375 MHz 122.75 MHz ²⁾ |
| 303334N 12/4/4/E | 133° 314° | | 8 000 (4 000) | | | | 2) Common frequency |
| \triangle BASEM | 9.2 | | Class A, D, G | | | | Only flying westbound from KPO to SEL on |
| 365037N 1275710E | 134° 314° | | UNL 8 000 (5 000) | | | | G585 is authorized except ACFT departing from RKTY or RKTI. |
| ▲ BIGOB | 12.5 | | Class A, D, G | | | | Aircraft flying eastbound |
| 364325N 1280952E | 134° 314° | | UNL 8 000 (4 900) | | | | Aircraft flying eastbound from SEL to KPO at or above 11 000 ft on G585 shall get PPR 24 hours before from |
| △ YECHEON VOR(CUN) | 9.5 | | Class A, D, G | | | | Incheon/Daegu ACC. No PPR is needed at or below 10 000 ft. |
| 363755N 1281931E | 133° 313° | | UNL 8 000 (3 900) | | | | or below 10 000 ft. Airspace Classification refer to ENR 3.1-1 |
| △ ELAPI | 30.8 | (34/34) | Class A, D, G | | | | |
| 362014N 1285051E | 133° 314° | | UNL 8 000 (5 000) | | | | |
| ▲ POHANG VORTAC(KPO) | 37.3 | | Class A, D, G | | | | |
| 355838N 1292828E | 107° 287° | | UNL 8 000 (3 500) | | | | |
| \triangle BULGA | 17.2 | | Class A, D, G | | | | |
| 355609N 1294924E | 107° 287° | | UNL 8 000 (1 500) | | | | |
| ▲ SAPRA(FIR BDRY) | 44.4 | | Class A, D, G | | | 1 | |
| 354926N 1304325E 354915N 1304334E ³⁾ | 3) <i>BES</i> | SSEL datu | m | | | | |
| INCHEON FIR | | | | | | | |
| FUKUOKA FIR | | | | | | | |

 $\hbox{Change : Information of controlling unit(Incheon ACC \rightarrow Daegu ACC) and frequencies(Daegu ACC)}.$

OFFICE OF CIVIL AVIATION AIRAC

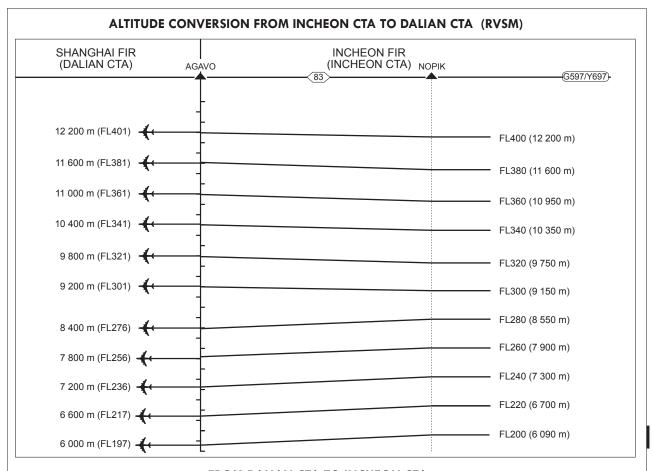
11 MAR 2021

| | | <u>Upper limits</u> Lower limits | | Direction of cruising level | s |
|--|-----------------|-------------------------------------|-------------------|--------------------------------|--|
| Route designator | Track MAG ↑ / ↓ | or Minimum altitude(MOCA) | | | |
| (RNP/RNAŬ) Name of significant points | VOR RDL DIST | ft AMSL or FL | Lateral limits | | Remarks Controlling unit channel |
| Coordinates | (COP) | Airspace classification | NM | Odd Ever | Logon address |
| SHANGHAI FIR | 2 | 3 | 4 | 5 | 6 |
| INCHEON FIR | | | | | |
| G597 ▲ AGAVO(FIR BDRY) | | | | | Daegu ACC FRFQ 128 70 MHz |
| 371010N 1235953E | 096° | | 10 | | FREQ : 128.70 MHz |
| 371000N 1240000E ⁵⁾ | 276° | | | | 1) Common frequency |
| ▲ GONAV | 20.0 | | | | , , , , , |
| ▲ GONAV 371048N 1242453E | 066° | | | | Westbound(SEL-AGAVO) FL 400, FL 380, FL 360, FL 340, FL 320, FL 300, |
| | 246° | | | | FL 340, FL 320, FL 300, FL 280, FL 260, FL 240, FL 220, FL 200. |
| \triangle DANTI | 13.8 | UNL | | | |
| 371806N 1243929E | 066° 247° | FL 150 | | | Note G597_is_only_for_ |
| △ ANSIM | 10.0 | (1 500) Class A, D, G | | | Non-RNAV aircraft |
| 372323N 1245009E | 097° | | | | Any aircraft approved for RNAV operations should use Y697. |
| | 277° | | | | |
| △ BINIL | 19.0 | _ | | | Only flying westbound from SEL to AGAVO on G597 is authorized. |
| 372349N 1251359E | 097° 278° | | | | (unless otherwise |
| △ NOPIK | 20.0 | | | | assigned by ATC, flying eastbound in this airway |
| 372412N 1253905E | 098° | UNL | | | shall not be used) |
| | 278° | 8 000 (2 200) | | | Aircraft flying eastbound from AGAVO to SEL on |
| △ GOGET | 41.0 | Class A, D, G | | | from AGAVO to SEL on G597 shall get PPR 24-hours before from |
| 372442N 1263036E | 098° | UNL | | | Incheon ACC. |
| | 278° | 8 000 (3 400) | | | REF. ENR 3.1-9 for the detailed Altitude |
| ▲ ANYANG VORTAC(SEL) | 20.0 | Class A, D, G | | | conversion procedures. |
| 372449N 1265542E | 087° 267° | UNL 7 500 | | • | Daegu ACC FREQ: 132.80 MHz |
| △ EGOBA | 22.0 | (3 500) | | | 118.925 MHz 122.75 MHz ²⁾ |
| 372915N 1272246E | | Class A, D, G UNL | | | 2) Common frequency |
| 372313IN 1272240L | 087° 267° | 7 500 | | | |
| △ KARBU | 13.9 | (5 100) Class A, D, G | | | |
| 373159N 1273952E | 087° | UNL | | | Daegu ACC |
| | 268° (44/45) | 7 500 (5 600) | | | FREQ: 134.175 MHz 123.65 MHz 122.75 MHz ³⁾ |
| △ TORUS | 22.9 | Class A, D, G | | | 122.75 MHz ³⁾ 3) Common frequency |
| 373625N 1280807E | 087° 268° | UNL | | | Airspace Classification refer to ENR 3.1-1 |
| | 1 1 | 7 500 (7 500) | | | refer to ENR 3.1-1 |
| △ BIKSI | 21.8 | Class A, D, G | | | |
| 374032N 1283504E | 088° | UNL 7 500 | | | |
| ▲ GANGWON VORTAC(KAE) | 268° 8.2 | (7 100) | | | |
| 374203N 1284514E | | Class A, D, G UNL | | | Daegu ACC |
| 07420011 12040142 | 130° 310° | 8 000 | | | FREQ: 134.175 MHz 123.65 MHz |
| ▲ PILIT | 30.0 | (7 100) Class A, D, G | | | 122.75 MHz ⁴⁾ 4) Common frequency |
| 372631N 1291731E | 130° | UNL | | | |
| | 130° 310° | 9 000 (3 100) | | | Only flying westbound from LANAT to KAE on G597 shall get 24HRs |
| △ NIMUS | 27.5 | Class A, D, G | | | PPR from Daegu ACC. |
| 371210N 1294656E | 130° 311° | | | | Airspace Classification |
| △ AGSUS | 50.8 | UNL | | | refer to ENR 3.1-1 |
| 364521N 1304044E | | 9 000 (1 500) | | | |
| | 131° 311° | Class A, D and G | | | |
| ▲ LANAT(FIR BDRY) 362224N 1312542E | 42.9 | | | | ↑ |
| 362224N 1312542E 362213N 1312551E ⁵⁾ | 5) BESSEL datu | m | | | |
| INCHEON FIR | , | | | | |
| FUKUOKA FIR | | | | | |

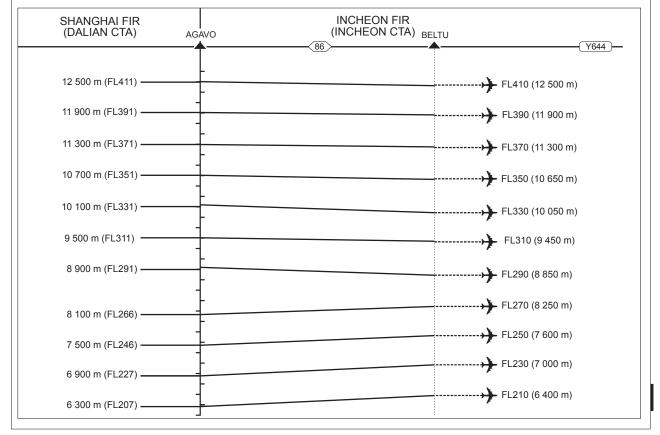
Change : Information of controlling unit(Incheon ACC → Daegu ACC) and frequencies(Daegu ACC).

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AIRAC A AIRAC AIP AMDT 4/21







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Republic of Korea
ENR 3.1 - 11
25 AUG 2022

3.1.2 DOMESTIC ATS ROUTES

| Route designator (RNP/RNAV) | Track MAG↑/↓ VOR RDL | Upper limits Lower limits or Minimum altitude(MOCA) ft AMSL or FL | Lateral | Direction cruising | | Remarks |
|---|-------------------------|---|--------------|--------------------|----------|--|
| Name of significant points Coordinates | DIST (COP) | Airspace classification | limits NM | Odd | Even | Controlling unit channel Logon address |
| 1 | 2 | 3 | 4 | 5 | | 6 |
| V11 ▲ PILIT 372631N 1291731E | 183° | | 8 | | ↓ | Daegu ACC |
| KAE R 128/30 DME KPO R 001/88 DME | 003° | UNL 9 000 (7 000) Class A. D. G | | | | FREQ: 134.175 MHz 120.575 MHz 123.65 MHz 119.375 MHz |
| △ NOBUT 370715N 1291957E | 19.3 183° 003° | UNL 9 000 (6 400) | | | | 122.75 MHz ¹⁾ 1) Common frequency 1. 11 000 ft to FL 240. |
| △ LOSTO 362016N 1292548E | 47.2 183° 003° | Class A, D, G UNL 9 000 (3 300) | | | | at or above FL 280 will be blocked. 2. At or above 11 000 ft, |
| ▲ POHANG VORTAC(KPO) 355838N 1292828E | 21.7 213° 032° | Class A, D, G UNL 9 000 (4 200) | | | | required 15 days PPR from Air Traffic Management Office. 3. Airspace Classification |
| △ APARU 352442N 1290932E | 37.2 213° 032° | Class A, D, G UNL 9 000 (4 400) | | | | refer to ENR 3.1-1 |
| ▲ BUSAN VORTAC(PSN) 350721N 1285958E | 19.0 | Class A, D, G | | ↑ | | |



| | | | | Upper limits Lower limits | | Direct | ion of g levels | |
|-------------|---|------------------------------------|---------|---|-------------------------|----------|--------------------|--|
| (RNF Nam | e designator P/RNAV) e of significant points dinates | Track M VOR RI DIST (COP) | | or Minimum altitude(MOCA) ft AMSL or FL Airspace classification | Lateral limits NM | Odd | Even | Remarks Controlling unit channel Logon address |
| | 1 | | 2 | 3 | 4 | 5 | 5 | 6 |
| Δ | V543 DALSU 350731N 1264206E | 097° 277° | | UNL 8 000 | 10 | | | |
| Δ | GWANGJU VOR(KWA) 350734N 1264844E | 5.4 097° 277° | | (2 500) Class A, D, G UNL 8 000 (2 000) | | | | Incheon ACC FREQ: 120.725 MHz 128.30 MHz 123.725 MHz |
| | SAMUL | 2.6 | | Class A, D, G | | | | 124.50 MHz |
| | 350736N 1265154E | 097° 278° | | UNL 8 000 (5 200) | | | | 132.20 MHz ¹⁾ 1) Common frequency Airspace Classification |
| Δ | TEDAN 350744N 1271852E | 22.1 098° 278° | | Class A, D, G | | | | refer to ENR 3.1-1 |
| Δ | ANUBA 350746N 1273523E | 13.5 | | (8 000) Class A, D, G | | | | |
| | | 098° 279° 44.7 | (25/83) | UNL 8 000 (8 000) | | | | |
| | SAPDI 350737N 1282952E | 098° 278° | | Class A, D, G UNL 8 000 (3 800) | | | | Daegu ACC |
| Δ | SARAM 350736N 1283147E | 1.6 099° 279° | | Class A, D, G UNL 8 000 (4 000) | | | | FREQ: 125.375 MHz 125.775 MHz 124.575 MHz 122.75 MHz ²⁾ 2) Common frequency |
| Δ | ANKUS 350730N 1284616E | 11.9 099° 279° | | Class A, D, G UNL 8 000 (3 500) | _ | | | Airspace Classification refer to ENR 3.1-1 |
| • | BUSAN VORTAC(PSN) 350721N 1285958E | 11.2 | | Class A, D, G | | | ↑ | |
| | V547 | | | | | | | hadran AGG |
| | GWANGJU VOR(KWA) 350734N 1264844E | 072° 253° | | 10 000 9 000 | 10 | ↓ | | Incheon ACC FREQ: 123.725 MHz 124.50 MHz 132.20 MHz ³⁾ 3) Common frequency |
| Δ | IGDOK | 54.7 | (48/48) | (8 600) Class D | | | | Airspace Classification refer to ENR 3.1-1 Daegu ACC |
| | 353104N 1274907E | 073° 254° | | 10 000 9 000 (5 000) | | | | FREQ: 125.375 MHz 125.775 MHz 124.575 MHz 122.75 MHz ⁴⁾ |
| • | DALSEONG VORTAC(TGU) 354835N 1283527E | 41.6 | | Class D | | | <u> </u> | 4) Common frequency Airspace Classification refer to ENR 3.1-1 |

| | | | | Upper limits | | Direct | ion of | |
|-------------|------------------------------------|----------------|---------|---|-------------------|----------------------|----------|--|
| | | | | Lower limits | | | levels | |
| | e designator | | IAG ↑/↓ | or Minimum altitude(MOCA) | | | | |
| Nam | P/RNAV) e of significant points | VOR RI DIST | DL | Minimum altitude(MOCA) ft AMSL or FL | Lateral limits | | | Remarks Controlling unit channel |
| Coor | dinates | (COP) | | Airspace classification | NM | Odd | Even | Logon address |
| | V549 | | 2 | 3 | 4 | ; | 5 | 6 |
| • | GUNSAN VORTAC(KUZ) | | | | | | | Incheon ACC |
| | 355437N 1263641E | 101° 281° | | | 10 | | | FREQ: 132.15 MHz |
| | | 281° | | | | | | 126.175 MHz |
| l . | 51 500 | | | 10 000 | | | | 123.55 MHz |
| | ELPOS | 8.5 | | 7 000 | | | | 134.375 MHz 132.20 MHz ¹⁾ |
| | 355410N 1264707E | 101° 281° | | (1 800) Class D | | | | 1) Common frequency |
| | | | | | | | | Aires Classification |
| \triangle | RINBO | 5.5 | | | | | | Airspace Classification refer to ENR 3.1-1 |
| | 355352N 1265349E | | | 10 000 | | | | 2.27 |
| | | 101° 282° | (49/48) | 7 000 | | | | |
| _ | MELEC | 17.8 | | (3 500) Class D | | | | |
| | MELES 355251N 1271542E | | - | | | | | |
| | 33020114 12/1072L | 102° 282° | | 10 000 7 000 | | | | |
| | | | | (5 000) | | | | |
| _ | OPEDA | 17.2 | | Class D | | | | |
| | 355149N 1273652E | 102° 282° | | 10 000 | | | | Daegu ACC |
| | | 202 | | 7 000 (6 600) | | | | FREQ: 125.375 MHz |
| • | DALSEONG VORTAC(TGU) | 47.7 | | Class D | | | | 125.775 MHz 124.575 MHz |
| | 354835N 1283527E | 085° 265° | | | | | | 122.75 MHz ²⁾ |
| | | 205 | | LINII | | | | 2) Common frequency |
| _ | LAPAL | 24.0 | | UNL 6 000 | | | | Airspace Classification |
| | 355413N 1290452E | 24.6 085° | | (5 400) | | | | refer to ENR 3.1-1 |
| | 355413N 1290452E 085° 265° | Class A, D, G | | | | TOLL in wood Between | | |
| | | | | Jidos A, D, O | | | | TGU is used Between TGU and KPO. |
| • | POHANG VORTAC(KPO) | 19.7 | | | | | <u> </u> | |
| | 355838N 1292828E | | | | | | | |
| | W/AE | | | | | | | |
| • | W45 GWANGJU TACAN(KWJ) | | | | | | | Incheon ACC |
| i | 350723N 1264810E | | | | 10 | \ | | FREQ: 123.725 MHz |
| | - | 097° 278° | | UNL | | | | 124.50 MHz 132.20 MHz ³⁾ |
| | | 278° | | 8 000 | | | | 3) Common frequency Between RIMPO and |
| | | | | (8 000) | | | | RUNIT 11 000 ft AMSL |
| _ | DIMDO | 38.4 | | Class A, D, G | | | | to FL 190 VMC-IMC use for training purpose. |
| | RIMPO 350739N 1273502E | 0000 | | UNL | - | | | Airspace Classification |
| | 000108N 121000ZE | 098° 278° | (23/85) | 8 000 | | | | refer to ENR 3.1-1 |
| | | 45.4 | | (8 000) | | | | |
| \triangle | RUNIT | 45.1 | | Class A, D, G | | | | Daegu ACC |
| | 350734N 1282952E | 098° 279° |] | UNL | 1 | | | FREQ: 125.375 MHz |
| | | 279° | | 8 000 | | | | 125.775 MHz 124.575 MHz |
| | DUGAN VODTAG(201) | | | (4 000) | | | _ | 122.75 MHz ⁴⁾ 4) Common frequency |
| _ | BUSAN VORTAC(PSN) | 24.7 | | Class A, D, G | | | 1 1 | 1 |
| | 350721N 1285958E | | | | | | | 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 |
| Ь | | <u> </u> | | | | | | I . |

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

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| | | Upper limits Lower limits or | | Direction of cruising levels | | |
|---|--|--|-------------------------|------------------------------|--|--|
| Route designator (RNP/RNAV) Name of significant points Coordinates | Track MAG↑/↓ VOR RDL DIST (COP) | Minimum altitude(MOCA) ft AMSL or FL Airspace classification | Lateral limits NM | Odd | Even | Remarks Controlling unit channel Logon address |
| 1 | 2 | 3 | 4 | 5 | | 6 |
| W61 ▲ SONGTAN VORTAC(SOT) | | | I | | | |
| 370540N 1270154E | 316° 136° | 8 000 (2 400) | 10 | | ↓ | Daegu ACC FREQ: 128.70 MHz 132.80 MHz |
| △ MONSI 371247N 1265015E | 11.7 316° | Class A, D, G UNL | | | | 122.75 MHz ¹⁾ 1) Common frequency |
| 371247N 1203013E | 136° | 8 000 (3 200) | | | | Airspace Classification |
| △ GOGET 372442N 1263036E | 19.7 | Class A, D, G | | <u> </u> | | refer to ENR 3.1-1 |
| W62 | | | | | | |
| ▲ SONGTAN VORTAC(SOT) 370540N 1270154E | 044° 224° | UNL | 10 | | | Daegu ACC |
| | | FL 140 (4 600) | | | | FREQ: 128.70MHz 132.80MHz 122.75 MHz ²⁾ |
| △ EGOBA 372915N 1272246E | 28.8 | Class A, D, G | | | | 2) Common frequency |
| | | | | | Airspace Classification refer to ENR 3.1-1 | |
| W526 ▲ DALSEONG VORTAC(TGU) | | | | | | |
| 354835N 1283527E | 192° 012° | 5 000 (4 900) | 10 | | \ | Daegu ACC FREQ: 125.375 MHz 125.775 MHz |
| △ MASTA 352847N 1283340E | 19.8 | Class A, D, G UNL | | | | 124.575 MHz 122.75 MHz ³⁾ |
| 53204714 1203340L | 192° 012° | 5 000 (3 800) | | | | 3) Common frequency |
| △ SARAM | 21.2 | Class A, D, G | | | | Airspace Classification |
| 350736N 1283147E | 192° 012° | 5 000 (3 200) | | | | refer to ENR 3.1-1 |
| ▲ TOPAX | 21.7 | Class A, D, G | | 1 | | |

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