

# RJTT - Tokyo - Tokyo Haneda Intl

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## Airport details

|             |                     |
|-------------|---------------------|
| State       | Tōkyō Prefecture    |
| Country     | Japan               |
| Region      | RJ                  |
| Elevation   | 35ft (11m)          |
| Timezone    | GMT +9              |
| Coordinates | 35.55333, 139.78111 |
| Type        | land                |
| ICAO code   | RJTT                |
| IATA code   | HND                 |
| FAA code    | n/a                 |

## Runway info

### Runway 16R / 34L

|                        |                          |
|------------------------|--------------------------|
| length                 | 3004m (9856ft)           |
| bearing                | 145° / 325°              |
| width                  | 61m (200ft)              |
| surface                | asphalt                  |
| displacement threshold | 480m (1575ft) / 0m (0ft) |
| blast zone             | 0m (0ft) / 60m (197ft)   |

### Runway 16L / 34R

|                        |                               |
|------------------------|-------------------------------|
| length                 | 3366m (11043ft)               |
| bearing                | 145° / 325°                   |
| width                  | 61m (200ft)                   |
| surface                | asphalt                       |
| displacement threshold | 387m (1270ft) / 360m (1181ft) |
| blast zone             | 60m (197ft) / 60m (197ft)     |

### Runway 05 / 23

|            |                           |
|------------|---------------------------|
| length     | 2503m (8212ft)            |
| bearing    | 48° / 228°                |
| width      | 60m (197ft)               |
| surface    | asphalt                   |
| blast zone | 60m (197ft) / 60m (197ft) |

### Runway 04 / 22

|            |                           |
|------------|---------------------------|
| length     | 2503m (8212ft)            |
| bearing    | 41° / 221°                |
| width      | 61m (200ft)               |
| surface    | asphalt                   |
| blast zone | 60m (197ft) / 60m (197ft) |

## Communication

|                                         |         |
|-----------------------------------------|---------|
| Tokyo Haneda Intl ATIS                  | 128.800 |
| Tokyo Haneda Intl ATIS                  | 128.800 |
| Tokyo Haneda Intl ATIS                  | 128.800 |
| Tokyo Haneda Intl ATIS                  | 128.800 |
| Tokyo Haneda Intl CLNC DEL              | 121.825 |
| Tokyo Haneda Intl CLNC DEL              | 121.875 |
| Tokyo Haneda Intl CLNC DEL              | 121.825 |
| Tokyo Haneda Intl CLNC DEL              | 121.875 |
| Tokyo Haneda Intl CLNC DEL              | 121.875 |
| Tokyo Haneda Intl CLNC DEL              | 121.875 |
| Tokyo Haneda Intl CLNC DEL              | 121.825 |
| Tokyo Haneda Intl CLNC DEL              | 121.825 |
| Tokyo Haneda Intl GND                   | 121.700 |
| Tokyo Haneda Intl GND                   | 121.700 |
| Tokyo Haneda Intl GND                   | 118.225 |
| Tokyo Haneda Intl GND                   | 121.700 |
| Tokyo Haneda Intl GND                   | 118.225 |
| Tokyo Haneda Intl GND                   | 121.700 |
| Tokyo Haneda Intl GND                   | 118.225 |
| Tokyo Haneda Intl GND                   | 118.225 |
| Tokyo Haneda Intl NORTH PACIFIC<br>AREA | 126.900 |
| Tokyo Haneda Intl TWR                   | 118.100 |
| Tokyo Haneda Intl TWR                   | 118.800 |
| Tokyo Haneda Intl TWR                   | 124.350 |
| Tokyo Haneda Intl TWR                   | 126.200 |
| Tokyo Haneda Intl TWR                   | 124.350 |
| Tokyo Haneda Intl NORTH PACIFIC<br>AREA | 126.900 |
| Tokyo Haneda Intl TWR                   | 118.100 |
| Tokyo Haneda Intl TWR                   | 118.800 |
| Tokyo Haneda Intl TWR                   | 126.200 |
| Tokyo Haneda Intl TWR                   | 126.200 |
| Tokyo Haneda Intl TWR                   | 118.100 |
| Tokyo Haneda Intl TWR                   | 124.350 |
| Tokyo Haneda Intl TWR                   | 126.200 |
| Tokyo Haneda Intl NORTH PACIFIC<br>AREA | 126.900 |
| Tokyo Haneda Intl TWR                   | 118.800 |
| Tokyo Haneda Intl TWR                   | 118.800 |
| Tokyo Haneda Intl TWR                   | 124.350 |
| Tokyo Haneda Intl TWR                   | 118.100 |
| Tokyo Haneda Intl NORTH PACIFIC<br>AREA | 126.900 |
| Tokyo Haneda Intl TCA                   | 124.750 |
| Tokyo Haneda Intl APP                   | 125.300 |
| Tokyo Haneda Intl APP                   | 119.700 |

|                       |         |
|-----------------------|---------|
| Tokyo Haneda Intl APP | 119.100 |
| Tokyo Haneda Intl TCA | 124.750 |
| Tokyo Haneda Intl APP | 125.300 |
| Tokyo Haneda Intl APP | 125.200 |
| Tokyo Haneda Intl APP | 119.700 |
| Tokyo Haneda Intl APP | 119.100 |
| Tokyo Haneda Intl APP | 125.200 |
| Tokyo Haneda Intl TCA | 124.750 |
| Tokyo Haneda Intl APP | 125.300 |
| Tokyo Haneda Intl TCA | 124.750 |
| Tokyo Haneda Intl APP | 125.200 |
| Tokyo Haneda Intl APP | 119.700 |
| Tokyo Haneda Intl APP | 119.100 |
| Tokyo Haneda Intl APP | 125.300 |
| Tokyo Haneda Intl APP | 119.100 |
| Tokyo Haneda Intl APP | 119.700 |
| Tokyo Haneda Intl APP | 125.200 |
| Tokyo Haneda Intl DEP | 126.000 |
| Tokyo Haneda Intl DEP | 126.000 |
| Tokyo Haneda Intl DEP | 120.800 |
| Tokyo Haneda Intl DEP | 126.000 |
| Tokyo Haneda Intl DEP | 120.800 |
| Tokyo Haneda Intl DEP | 126.000 |
| Tokyo Haneda Intl DEP | 127.600 |
| Tokyo Haneda Intl DEP | 120.800 |
| Tokyo Haneda Intl DEP | 127.600 |
| Tokyo Haneda Intl DEP | 120.800 |
| Tokyo Haneda Intl DEP | 127.600 |
| Tokyo Haneda Intl DEP | 127.600 |

## Approach frequencies

|             |     |        |         |
|-------------|-----|--------|---------|
| LDA         | 22  | 110.1  | 18.00mi |
| LDA         | 23  | 108.5  | 18.00mi |
| ILS-cat-III | 34R | 108.9  | 18.00mi |
| ILS-cat-I   | 22  | 108.1  | 18.00mi |
| ILS-cat-I   | 23  | 110.5  | 18.00mi |
| ILS-cat-I   | 16R | 111.55 | 18.00mi |
| ILS-cat-I   | 16L | 111.95 | 18.00mi |
| ILS-cat-I   | 34L | 111.7  | 18.00mi |
| 3° GS       | 22  | 108.1  | 18.00mi |
| 3° GS       | 23  | 110.5  | 18.00mi |
| 3° GS       | 34L | 111.7  | 18.00mi |
| 3° GS       | 34R | 108.9  | 18.00mi |
| 3° GS       | 16L | 111.95 | 18.00mi |
| 3° GS       | 16R | 111.55 | 18.00mi |

## Nearby beacons

| code | identifier                | dist | bearing | frequency |
|------|---------------------------|------|---------|-----------|
| HME  | HANEDA (TOKYO) VOR/DME    | 1.1  | 294.2°  | 112.20    |
| KZT  | KISARAZU TACAN            | 11.1 | 141.7°  | 110.05    |
| NJA  | ATSUGI TACAN              | 17.2 | 251.7°  | 115.10    |
| SHT  | SHIMOFUSA (MATSUDO) TACAN | 18.6 | 42.5°   | 108.20    |
| HYD  | DME                       | 20.2 | 213°    | 116.20    |
| TN   | SHIN-TACHIKAWA NDB        | 21   | 293.3°  | 366       |
| TNT  | TACHIKAWA TACAN           | 21   | 293.1°  | 115.80    |
| YOK  | YOKOTA (TOKYO) TACAN      | 24   | 294.4°  | 113.80    |
| YLT  | IRUMA TACAN               | 24.7 | 308°    | 110.60    |
| SND  | (TOKYO) DME               | 24.9 | 27.7°   | 114       |
| SYE  | SEKIYADO VOR/DME          | 27.6 | 7.2°    | 117       |
| NRE  | NARITA (TOKYO) VOR/DME    | 31.5 | 68.5°   | 117.90    |
| TLD  | DME                       | 34.8 | 42.2°   | 116       |
| TET  | TATEYAMA TACAN            | 35   | 174.4°  | 108.80    |
| OJT  | ONJUKU TACAN              | 36.4 | 122°    | 115.70    |
| PQD  | DME                       | 36.8 | 169.3°  | 112.50    |
| HUC  | HYAKURI VORTAC            | 48.9 | 44.9°   | 113.30    |
| OSE  | MIHARA (OSHIMA) VOR/DME   | 50.3 | 208.5°  | 109.85    |
| XAC  | OSHIMA VORTAC             | 53.6 | 203.5°  | 113.10    |
| JD   | NIKKO (UTSUNOMIYA) NDB    | 56.2 | 5°      | 389       |
| JDT  | UTSUNOMIYA TACAN          | 58   | 5.5°    | 112.15    |

## Departure and arrival routes

Transition altitude 14000ft  
 Transition level 14000ft

| SID end points         | distance | outbound direction |
|------------------------|----------|--------------------|
| RW04                   |          |                    |
| SYE3                   | 27.6     | 7°                 |
| ROVE2A                 | 50.7     | 80°                |
| RUTAS2                 | 66.1     | 133°               |
| OPPAR3, VAMOS3         | 36.8     | 169°               |
| ISOGO2, VADAR1         | 53.6     | 204°               |
| LAXAS3                 | 40.9     | 226°               |
| NINOX3                 | 30.3     | 265°               |
| RITL2A                 | 32.1     | 280°               |
| BEKL2A                 | 34.2     | 295°               |
| RW05                   |          |                    |
| SYE3                   | 27.6     | 7°                 |
| ROVE2C, ROVE2B, ROVE2A | 50.7     | 80°                |
| RUTAS2                 | 66.1     | 133°               |
| VAMOS3, OPPAR3         | 36.8     | 169°               |
| VADAR1, ISOGO2         | 53.6     | 204°               |
| LAXAS3                 | 40.9     | 226°               |

|            |                        |      |      |
|------------|------------------------|------|------|
|            | NINOX3                 | 30.3 | 265° |
|            | RITL2C, RITL2B, RITL2A | 32.1 | 280° |
|            | BEKL2C, BEKL2B, BEKL2A | 34.2 | 295° |
| RW16 (ALL) |                        |      |      |
|            | SYE3                   | 27.6 | 7°   |
|            | VADAR1, ISOGO2         | 53.6 | 204° |
| RW16L      |                        |      |      |
|            | ROVE2C, ROVE2B, ROVE2A | 50.7 | 80°  |
|            | RUTAS2                 | 66.1 | 133° |
|            | VAMOS3, OPPAR3         | 36.8 | 169° |
|            | LAXAS3                 | 40.9 | 226° |
|            | NINOX3                 | 30.3 | 265° |
|            | RITL2C, RITL2B, RITL2A | 32.1 | 280° |
|            | BEKL2A, BEKL2B, BEKL2C | 34.2 | 295° |
| RW16R      |                        |      |      |
|            | ROVE2C, ROVE2B, ROVE2A | 50.7 | 80°  |
|            | RUTAS2                 | 66.1 | 133° |
|            | VAMOS3, OPPAR3         | 36.8 | 169° |
|            | LAXAS3                 | 40.9 | 226° |
|            | NINOX3                 | 30.3 | 265° |
|            | RITL2A, RITL2B, RITL2C | 32.1 | 280° |
|            | BEKL2A, BEKL2B, BEKL2C | 34.2 | 295° |
| RW22       |                        |      |      |
|            | VAMOS3                 | 36.8 | 169° |
|            | LAXAS3                 | 40.9 | 226° |
|            | NINOX3                 | 30.3 | 265° |
|            | RITL2C                 | 32.1 | 280° |
| RW34 (ALL) |                        |      |      |
|            | SYE3                   | 27.6 | 7°   |
|            | ROVE2A                 | 50.7 | 80°  |
|            | RUTAS2                 | 66.1 | 133° |
|            | VAMOS3, OPPAR3         | 36.8 | 169° |
|            | VADAR1                 | 53.6 | 204° |
|            | LAXAS3                 | 40.9 | 226° |
|            | NINOX3                 | 30.3 | 265° |
|            | RITL2A                 | 32.1 | 280° |
|            | BEKL2A                 | 34.2 | 295° |
| RW34L      |                        |      |      |
|            | ISOGO2                 | 53.6 | 204° |
| RW34R      |                        |      |      |
|            | ROVE2B, ROVE2C         | 50.7 | 80°  |
|            | ISOGO2                 | 53.6 | 204° |
|            | RITL2B, RITL2C         | 32.1 | 280° |
|            | BEKL2B, BEKL2C         | 34.2 | 295° |

| STAR starting points | distance | inbound direction |
|----------------------|----------|-------------------|
| ALL                  |          |                   |
| XACN, XACV           | 53.6     | 24°               |

|                                |      |      |
|--------------------------------|------|------|
| SINGO, DOYLE                   | 49.3 | 213° |
| MESSEN, MESSEV                 | 36.4 | 302° |
| AROSAN, AROSAV                 | 68.2 | 313° |
| ADDUM, BONUS                   | 45.6 | 325° |
| AKSELV, AKSELN                 | 52.7 | 355° |
| RW16L                          |      |      |
| XACL                           | 53.6 | 24°  |
| GODINL                         | 56.7 | 210° |
| POLIXL                         | 50.8 | 225° |
| AROSAL                         | 68.2 | 313° |
| AKSELL                         | 52.7 | 355° |
| RW16R                          |      |      |
| XACR                           | 53.6 | 24°  |
| GODINR                         | 56.7 | 210° |
| POLIXR                         | 50.8 | 225° |
| AROSAR                         | 68.2 | 313° |
| AKSELR                         | 52.7 | 355° |
| RW22                           |      |      |
| XAC2N, XAC2B, XAC1B, XAC1N     | 53.6 | 24°  |
| GODI1D, GODI1S                 | 56.7 | 210° |
| POLI1S, POLI1D                 | 50.8 | 225° |
| AROS1B, AROS2N, AROS2B, AROS1N | 68.2 | 313° |
| AKSE2N, AKSE1B, AKSE1N, AKSE2B | 52.7 | 355° |
| RW23                           |      |      |
| XAC2N, XAC2B, XAC1B, XAC1N     | 53.6 | 24°  |
| GODI1S, GODI1D                 | 56.7 | 210° |
| POLI1S, POLI1D                 | 50.8 | 225° |
| AROS1B, AROS2N, AROS2B, AROS1N | 68.2 | 313° |
| AKSE1B, AKSE1N, AKSE2N, AKSE2B | 52.7 | 355° |
| RW34 (ALL)                     |      |      |
| XAC1K, XAC1A, XAC2C, XAC2H     | 53.6 | 24°  |
| GODI2A, GODI1H, GODI1C, GODI2K | 56.7 | 210° |
| POLI1H, POLI2K, POLI2A, POLI1C | 50.8 | 225° |
| AROS2C, AROS1A, AROS1K, AROS2H | 68.2 | 313° |
| AKSE1A, AKSE1K, AKSE2C, AKSE2H | 52.7 | 355° |

## Holding patterns

| STAR name | hold at | type | turn  | heading*   | altitude            | leg             | speed limit |
|-----------|---------|------|-------|------------|---------------------|-----------------|-------------|
| ADDUM     | ADDUM   | VHF  | left  | 157 (337)° | > 5000ft            | DME 8.4mi       | 250         |
| AKSE1A    | AKSEL   | VHF  | right | 219 (39)°  | 5000ft -<br>14000ft | 1.0min<br>timed | 230         |
| AKSE1A    | ARLON   | VHF  | left  | 189 (9)°   | 4000ft -<br>14000ft | 1.0min<br>timed | 230         |
| AKSE1A    | WEDGE   | VHF  | left  | 120 (300)° | 4000ft -<br>14000ft | 1.0min<br>timed | 230         |
| AKSE1B    | AKSEL   | VHF  | right | 219 (39)°  | 5000ft -<br>14000ft | 1.0min<br>timed | 230         |

|        |       |     |       |            |                     |                 |     |
|--------|-------|-----|-------|------------|---------------------|-----------------|-----|
| AKSE1B | BACON | VHF | left  | 183 (3)°   | 4000ft -<br>14000ft | 1.0min<br>timed | 230 |
| AKSE1B | SHAFT | VHF | right | 150 (330)° | 4000ft -<br>14000ft | 1.0min<br>timed | 230 |
| AKSE1K | AKSEL | VHF | right | 219 (39)°  | 5000ft -<br>14000ft | 1.0min<br>timed | 230 |
| AKSE1K | KAIHO | VHF | right | 173 (353)° | 4000ft -<br>14000ft | 1.0min<br>timed | 230 |
| AKSE1K | WEDGE | VHF | left  | 120 (300)° | 4000ft -<br>14000ft | 1.0min<br>timed | 230 |
| AKSE1N | AKSEL | VHF | right | 219 (39)°  | 5000ft -<br>14000ft | 1.0min<br>timed | 230 |
| AKSE1N | NYLON | VHF | left  | 177 (357)° | 4000ft -<br>14000ft | 1.0min<br>timed | 230 |
| AKSE1N | SHAFT | VHF | right | 150 (330)° | 4000ft -<br>14000ft | 1.0min<br>timed | 230 |
| AKSE2B | AKSEL | VHF | right | 219 (39)°  | 5000ft -<br>14000ft | 1.0min<br>timed | 230 |
| AKSE2B | BACON | VHF | left  | 183 (3)°   | 4000ft -<br>14000ft | 1.0min<br>timed | 230 |
| AKSE2B | SHAFT | VHF | right | 150 (330)° | 4000ft -<br>14000ft | 1.0min<br>timed | 230 |
| AKSE2B | STING | VHF | right | 247 (67)°  | 4000ft -<br>14000ft | 1.0min<br>timed | 230 |
| AKSE2C | AKSEL | VHF | right | 219 (39)°  | 5000ft -<br>14000ft | 1.0min<br>timed | 230 |
| AKSE2C | CIVIC | VHF | right | 165 (345)° | 4000ft -<br>14000ft | 1.0min<br>timed | 230 |
| AKSE2C | CREAM | VHF | right | 111 (291)° | 4000ft -<br>14000ft | 1.0min<br>timed | 230 |
| AKSE2H | AKSEL | VHF | right | 219 (39)°  | 5000ft -<br>14000ft | 1.0min<br>timed | 230 |
| AKSE2H | CACAO | VHF | right | 152 (332)° | 4000ft -<br>60000ft | DME 5.0mi       | 230 |
| AKSE2H | CIVIC | VHF | right | 165 (345)° | 4000ft -<br>14000ft | 1.0min<br>timed | 230 |
| AKSE2H | CREAM | VHF | right | 111 (291)° | 4000ft -<br>14000ft | 1.0min<br>timed | 230 |
| AKSE2N | AKSEL | VHF | right | 219 (39)°  | 5000ft -<br>14000ft | 1.0min<br>timed | 230 |
| AKSE2N | NYLON | VHF | left  | 177 (357)° | 4000ft -<br>14000ft | 1.0min<br>timed | 230 |
| AKSE2N | SHAFT | VHF | right | 150 (330)° | 4000ft -<br>14000ft | 1.0min<br>timed | 230 |
| AKSE2N | STING | VHF | right | 247 (67)°  | 4000ft -<br>14000ft | 1.0min<br>timed | 230 |
| AKSELL | AKSEL | VHF | right | 219 (39)°  | 5000ft -<br>14000ft | 1.0min<br>timed | 230 |
| AKSELL | SHAFT | VHF | right | 150 (330)° | 4000ft -<br>14000ft | 1.0min<br>timed | 230 |
| AKSELL | SNARE | VHF | right | 117 (297)° | 4000ft -<br>14000ft | 1.0min<br>timed | 230 |

|        |       |     |       |            |                     |                 |     |
|--------|-------|-----|-------|------------|---------------------|-----------------|-----|
| AKSELL | SPINE | VHF | left  | 168 (348)° | 4000ft -<br>14000ft | 1.0min<br>timed | 230 |
| AKSELN | AKSEL | VHF | right | 219 (39)°  | 5000ft -<br>14000ft | 1.0min<br>timed | 230 |
| AKSELN | KAIHO | VHF | right | 173 (353)° | 4000ft -<br>14000ft | 1.0min<br>timed | 230 |
| AKSELR | AKSEL | VHF | right | 219 (39)°  | 5000ft -<br>14000ft | 1.0min<br>timed | 230 |
| AKSELR | NEURO | VHF | right | 110 (290)° | 4000ft -<br>14000ft | 1.0min<br>timed | 230 |
| AKSELR | NUMAN | VHF | left  | 180 (0)°   | 4000ft -<br>14000ft | 1.0min<br>timed | 230 |
| AKSELV | AKSEL | VHF | right | 219 (39)°  | 5000ft -<br>14000ft | 1.0min<br>timed | 230 |
| AKSELV | KAIHO | VHF | right | 173 (353)° | 4000ft -<br>14000ft | 1.0min<br>timed | 230 |
| AROS1A | ARLON | VHF | left  | 189 (9)°   | 4000ft -<br>14000ft | 1.0min<br>timed | 230 |
| AROS1A | AVEEY | VHF | right | 134 (314)° | 5000ft -<br>14000ft | 1.0min<br>timed | 230 |
| AROS1A | WEDGE | VHF | left  | 120 (300)° | 4000ft -<br>14000ft | 1.0min<br>timed | 230 |
| AROS1B | AVEEY | VHF | right | 134 (314)° | 5000ft -<br>14000ft | 1.0min<br>timed | 230 |
| AROS1B | BACON | VHF | left  | 183 (3)°   | 4000ft -<br>14000ft | 1.0min<br>timed | 230 |
| AROS1B | SHAFT | VHF | right | 150 (330)° | 4000ft -<br>14000ft | 1.0min<br>timed | 230 |
| AROS1K | AVEEY | VHF | right | 134 (314)° | 5000ft -<br>14000ft | 1.0min<br>timed | 230 |
| AROS1K | KAIHO | VHF | right | 173 (353)° | 4000ft -<br>14000ft | 1.0min<br>timed | 230 |
| AROS1K | WEDGE | VHF | left  | 120 (300)° | 4000ft -<br>14000ft | 1.0min<br>timed | 230 |
| AROS1N | AVEEY | VHF | right | 134 (314)° | 5000ft -<br>14000ft | 1.0min<br>timed | 230 |
| AROS1N | NYLON | VHF | left  | 177 (357)° | 4000ft -<br>14000ft | 1.0min<br>timed | 230 |
| AROS1N | SHAFT | VHF | right | 150 (330)° | 4000ft -<br>14000ft | 1.0min<br>timed | 230 |
| AROS2B | AVEEY | VHF | right | 134 (314)° | 5000ft -<br>14000ft | 1.0min<br>timed | 230 |
| AROS2B | BACON | VHF | left  | 183 (3)°   | 4000ft -<br>14000ft | 1.0min<br>timed | 230 |
| AROS2B | SHAFT | VHF | right | 150 (330)° | 4000ft -<br>14000ft | 1.0min<br>timed | 230 |
| AROS2B | STING | VHF | right | 247 (67)°  | 4000ft -<br>14000ft | 1.0min<br>timed | 230 |
| AROS2C | AVEEY | VHF | right | 134 (314)° | 5000ft -<br>14000ft | 1.0min<br>timed | 230 |
| AROS2C | CIVIC | VHF | right | 165 (345)° | 4000ft -<br>14000ft | 1.0min<br>timed | 230 |

|        |       |     |       |            |                     |                 |     |
|--------|-------|-----|-------|------------|---------------------|-----------------|-----|
| AROS2C | CREAM | VHF | right | 111 (291)° | 4000ft -<br>14000ft | 1.0min<br>timed | 230 |
| AROS2H | AVEEY | VHF | right | 134 (314)° | 5000ft -<br>14000ft | 1.0min<br>timed | 230 |
| AROS2H | CACAO | VHF | right | 152 (332)° | 4000ft -<br>60000ft | DME 5.0mi       | 230 |
| AROS2H | CIVIC | VHF | right | 165 (345)° | 4000ft -<br>14000ft | 1.0min<br>timed | 230 |
| AROS2H | CREAM | VHF | right | 111 (291)° | 4000ft -<br>14000ft | 1.0min<br>timed | 230 |
| AROS2N | AVEEY | VHF | right | 134 (314)° | 5000ft -<br>14000ft | 1.0min<br>timed | 230 |
| AROS2N | NYLON | VHF | left  | 177 (357)° | 4000ft -<br>14000ft | 1.0min<br>timed | 230 |
| AROS2N | SHAFT | VHF | right | 150 (330)° | 4000ft -<br>14000ft | 1.0min<br>timed | 230 |
| AROS2N | STING | VHF | right | 247 (67)°  | 4000ft -<br>14000ft | 1.0min<br>timed | 230 |
| AROSAL | AVEEY | VHF | right | 134 (314)° | 5000ft -<br>14000ft | 1.0min<br>timed | 230 |
| AROSAL | SHAFT | VHF | right | 150 (330)° | 4000ft -<br>14000ft | 1.0min<br>timed | 230 |
| AROSAL | SNARE | VHF | right | 117 (297)° | 4000ft -<br>14000ft | 1.0min<br>timed | 230 |
| AROSAL | SPINE | VHF | left  | 168 (348)° | 4000ft -<br>14000ft | 1.0min<br>timed | 230 |
| AROSAN | AVEEY | VHF | right | 134 (314)° | 5000ft -<br>14000ft | 1.0min<br>timed | 230 |
| AROSAN | KAIHO | VHF | right | 173 (353)° | 4000ft -<br>14000ft | 1.0min<br>timed | 230 |
| AROSAR | AVEEY | VHF | right | 134 (314)° | 5000ft -<br>14000ft | 1.0min<br>timed | 230 |
| AROSAR | NEURO | VHF | right | 110 (290)° | 4000ft -<br>14000ft | 1.0min<br>timed | 230 |
| AROSAR | NUMAN | VHF | left  | 180 (0)°   | 4000ft -<br>14000ft | 1.0min<br>timed | 230 |
| AROSAV | AVEEY | VHF | right | 134 (314)° | 5000ft -<br>14000ft | 1.0min<br>timed | 230 |
| AROSAV | KAIHO | VHF | right | 173 (353)° | 4000ft -<br>14000ft | 1.0min<br>timed | 230 |
| BONUS  | ADDUM | VHF | left  | 157 (337)° | > 5000ft            | DME 8.4mi       | 250 |
| DOYLE  | STONE | VHF | right | 36 (216)°  | > 11000ft           | DME 7.7mi       | 250 |
| GODI1C | COACH | VHF | right | 5 (185)°   | 4000ft -<br>14000ft | 1.0min<br>timed | 230 |
| GODI1C | COLOR | VHF | right | 17 (197)°  | 8000ft -<br>14000ft | 1.0min<br>timed | 230 |
| GODI1C | CREAM | VHF | right | 111 (291)° | 4000ft -<br>14000ft | 1.0min<br>timed | 230 |
| GODI1C | GODIN | VHF | right | 17 (197)°  | 8000ft -<br>14000ft | 1.0min<br>timed | 230 |
| GODI1D | DENNY | VHF | right | 347 (167)° | 4000ft -<br>14000ft | 1.0min<br>timed | 230 |

|        |       |     |       |            |                     |                 |     |
|--------|-------|-----|-------|------------|---------------------|-----------------|-----|
| GODI1D | DREAD | VHF | right | 11 (191)°  | 5000ft -<br>14000ft | 1.0min<br>timed | 230 |
| GODI1D | GODIN | VHF | right | 17 (197)°  | 8000ft -<br>14000ft | 1.0min<br>timed | 230 |
| GODI1D | NOVEL | VHF | left  | 84 (264)°  | 5000ft -<br>14000ft | 1.0min<br>timed | 230 |
| GODI1H | CACAO | VHF | right | 152 (332)° | 4000ft -<br>60000ft | DME 5.0mi       | 230 |
| GODI1H | COACH | VHF | right | 5 (185)°   | 4000ft -<br>14000ft | 1.0min<br>timed | 230 |
| GODI1H | COLOR | VHF | right | 17 (197)°  | 8000ft -<br>14000ft | 1.0min<br>timed | 230 |
| GODI1H | CREAM | VHF | right | 111 (291)° | 4000ft -<br>14000ft | 1.0min<br>timed | 230 |
| GODI1H | GODIN | VHF | right | 17 (197)°  | 8000ft -<br>14000ft | 1.0min<br>timed | 230 |
| GODI1S | GODIN | VHF | right | 17 (197)°  | 8000ft -<br>14000ft | 1.0min<br>timed | 230 |
| GODI1S | NOVEL | VHF | left  | 84 (264)°  | 5000ft -<br>14000ft | 1.0min<br>timed | 230 |
| GODI1S | SCREW | VHF | left  | 23 (203)°  | 4000ft -<br>14000ft | 1.0min<br>timed | 230 |
| GODI2A | ARLON | VHF | left  | 189 (9)°   | 4000ft -<br>14000ft | 1.0min<br>timed | 230 |
| GODI2A | COACH | VHF | right | 5 (185)°   | 4000ft -<br>14000ft | 1.0min<br>timed | 230 |
| GODI2A | COLOR | VHF | right | 17 (197)°  | 8000ft -<br>14000ft | 1.0min<br>timed | 230 |
| GODI2A | GODIN | VHF | right | 17 (197)°  | 8000ft -<br>14000ft | 1.0min<br>timed | 230 |
| GODI2K | COACH | VHF | right | 5 (185)°   | 4000ft -<br>14000ft | 1.0min<br>timed | 230 |
| GODI2K | COLOR | VHF | right | 17 (197)°  | 8000ft -<br>14000ft | 1.0min<br>timed | 230 |
| GODI2K | GODIN | VHF | right | 17 (197)°  | 8000ft -<br>14000ft | 1.0min<br>timed | 230 |
| GODI2K | KAIHO | VHF | right | 173 (353)° | 4000ft -<br>14000ft | 1.0min<br>timed | 230 |
| GODINL | GODIN | VHF | right | 17 (197)°  | 8000ft -<br>14000ft | 1.0min<br>timed | 230 |
| GODINL | NOVEL | VHF | left  | 84 (264)°  | 5000ft -<br>14000ft | 1.0min<br>timed | 230 |
| GODINL | SNARE | VHF | right | 117 (297)° | 4000ft -<br>14000ft | 1.0min<br>timed | 230 |
| GODINR | GODIN | VHF | right | 17 (197)°  | 8000ft -<br>14000ft | 1.0min<br>timed | 230 |
| GODINR | NEURO | VHF | right | 110 (290)° | 4000ft -<br>14000ft | 1.0min<br>timed | 230 |
| GODINR | NOVEL | VHF | left  | 84 (264)°  | 5000ft -<br>14000ft | 1.0min<br>timed | 230 |
| MESSEN | KAIHO | VHF | right | 173 (353)° | 4000ft -<br>14000ft | 1.0min<br>timed | 230 |

|        |       |     |       |            |                      |                 |     |
|--------|-------|-----|-------|------------|----------------------|-----------------|-----|
| MESSEN | MESSE | VHF | left  | 66 (246)°  | 6000ft -<br>14000ft  | 1.0min<br>timed | 230 |
| MESSEV | KAIHO | VHF | right | 173 (353)° | 4000ft -<br>14000ft  | 1.0min<br>timed | 230 |
| MESSEV | MESSE | VHF | left  | 66 (246)°  | 6000ft -<br>14000ft  | 1.0min<br>timed | 230 |
| POLI1C | COACH | VHF | right | 5 (185)°   | 4000ft -<br>14000ft  | 1.0min<br>timed | 230 |
| POLI1C | COLOR | VHF | right | 17 (197)°  | 8000ft -<br>14000ft  | 1.0min<br>timed | 230 |
| POLI1C | CREAM | VHF | right | 111 (291)° | 4000ft -<br>14000ft  | 1.0min<br>timed | 230 |
| POLI1C | POLIX | VHF | left  | 130 (310)° | 11000ft -<br>14000ft | 1.0min<br>timed | 230 |
| POLI1D | DENNY | VHF | right | 347 (167)° | 4000ft -<br>14000ft  | 1.0min<br>timed | 230 |
| POLI1D | DREAD | VHF | right | 11 (191)°  | 5000ft -<br>14000ft  | 1.0min<br>timed | 230 |
| POLI1D | GODIN | VHF | right | 17 (197)°  | 8000ft -<br>14000ft  | 1.0min<br>timed | 230 |
| POLI1D | NOVEL | VHF | left  | 84 (264)°  | 5000ft -<br>14000ft  | 1.0min<br>timed | 230 |
| POLI1D | POLIX | VHF | left  | 130 (310)° | 11000ft -<br>14000ft | 1.0min<br>timed | 230 |
| POLI1H | CACAO | VHF | right | 152 (332)° | 4000ft -<br>60000ft  | DME 5.0mi       | 230 |
| POLI1H | COACH | VHF | right | 5 (185)°   | 4000ft -<br>14000ft  | 1.0min<br>timed | 230 |
| POLI1H | COLOR | VHF | right | 17 (197)°  | 8000ft -<br>14000ft  | 1.0min<br>timed | 230 |
| POLI1H | CREAM | VHF | right | 111 (291)° | 4000ft -<br>14000ft  | 1.0min<br>timed | 230 |
| POLI1H | POLIX | VHF | left  | 130 (310)° | 11000ft -<br>14000ft | 1.0min<br>timed | 230 |
| POLI1S | GODIN | VHF | right | 17 (197)°  | 8000ft -<br>14000ft  | 1.0min<br>timed | 230 |
| POLI1S | NOVEL | VHF | left  | 84 (264)°  | 5000ft -<br>14000ft  | 1.0min<br>timed | 230 |
| POLI1S | POLIX | VHF | left  | 130 (310)° | 11000ft -<br>14000ft | 1.0min<br>timed | 230 |
| POLI1S | SCREW | VHF | left  | 23 (203)°  | 4000ft -<br>14000ft  | 1.0min<br>timed | 230 |
| POLI2A | ARLON | VHF | left  | 189 (9)°   | 4000ft -<br>14000ft  | 1.0min<br>timed | 230 |
| POLI2A | COACH | VHF | right | 5 (185)°   | 4000ft -<br>14000ft  | 1.0min<br>timed | 230 |
| POLI2A | COLOR | VHF | right | 17 (197)°  | 8000ft -<br>14000ft  | 1.0min<br>timed | 230 |
| POLI2A | POLIX | VHF | left  | 130 (310)° | 11000ft -<br>14000ft | 1.0min<br>timed | 230 |
| POLI2K | COACH | VHF | right | 5 (185)°   | 4000ft -<br>14000ft  | 1.0min<br>timed | 230 |

|        |       |     |       |            |                      |                 |     |
|--------|-------|-----|-------|------------|----------------------|-----------------|-----|
| POLI2K | COLOR | VHF | right | 17 (197)°  | 8000ft -<br>14000ft  | 1.0min<br>timed | 230 |
| POLI2K | KAIHO | VHF | right | 173 (353)° | 4000ft -<br>14000ft  | 1.0min<br>timed | 230 |
| POLI2K | POLIX | VHF | left  | 130 (310)° | 11000ft -<br>14000ft | 1.0min<br>timed | 230 |
| POLIXL | GODIN | VHF | right | 17 (197)°  | 8000ft -<br>14000ft  | 1.0min<br>timed | 230 |
| POLIXL | NOVEL | VHF | left  | 84 (264)°  | 5000ft -<br>14000ft  | 1.0min<br>timed | 230 |
| POLIXL | POLIX | VHF | left  | 130 (310)° | 11000ft -<br>14000ft | 1.0min<br>timed | 230 |
| POLIXL | SNARE | VHF | right | 117 (297)° | 4000ft -<br>14000ft  | 1.0min<br>timed | 230 |
| POLIXR | GODIN | VHF | right | 17 (197)°  | 8000ft -<br>14000ft  | 1.0min<br>timed | 230 |
| POLIXR | NEURO | VHF | right | 110 (290)° | 4000ft -<br>14000ft  | 1.0min<br>timed | 230 |
| POLIXR | NOVEL | VHF | left  | 84 (264)°  | 5000ft -<br>14000ft  | 1.0min<br>timed | 230 |
| POLIXR | POLIX | VHF | left  | 130 (310)° | 11000ft -<br>14000ft | 1.0min<br>timed | 230 |
| SINGO  | STONE | VHF | right | 36 (216)°  | > 11000ft            | DME 7.7mi       | 250 |
| XAC1A  | ANZAC | VHF | left  | 248 (68)°  | 5000ft -<br>14000ft  | 1.0min<br>timed | 230 |
| XAC1A  | ARLON | VHF | left  | 189 (9)°   | 4000ft -<br>14000ft  | 1.0min<br>timed | 230 |
| XAC1A  | WEDGE | VHF | left  | 120 (300)° | 4000ft -<br>14000ft  | 1.0min<br>timed | 230 |
| XAC1A  | XAC   | NDB | right | 275 (95)°  | 15000ft -<br>60000ft | 1.5min<br>timed | 240 |
| XAC1B  | ANZAC | VHF | left  | 248 (68)°  | 5000ft -<br>14000ft  | 1.0min<br>timed | 230 |
| XAC1B  | BACON | VHF | left  | 183 (3)°   | 4000ft -<br>14000ft  | 1.0min<br>timed | 230 |
| XAC1B  | SHAFT | VHF | right | 150 (330)° | 4000ft -<br>14000ft  | 1.0min<br>timed | 230 |
| XAC1B  | XAC   | NDB | right | 275 (95)°  | 15000ft -<br>60000ft | 1.5min<br>timed | 240 |
| XAC1K  | ANZAC | VHF | left  | 248 (68)°  | 5000ft -<br>14000ft  | 1.0min<br>timed | 230 |
| XAC1K  | KAIHO | VHF | right | 173 (353)° | 4000ft -<br>14000ft  | 1.0min<br>timed | 230 |
| XAC1K  | WEDGE | VHF | left  | 120 (300)° | 4000ft -<br>14000ft  | 1.0min<br>timed | 230 |
| XAC1K  | XAC   | NDB | right | 275 (95)°  | 15000ft -<br>60000ft | 1.5min<br>timed | 240 |
| XAC1N  | ANZAC | VHF | left  | 248 (68)°  | 5000ft -<br>14000ft  | 1.0min<br>timed | 230 |
| XAC1N  | NYLON | VHF | left  | 177 (357)° | 4000ft -<br>14000ft  | 1.0min<br>timed | 230 |

|       |       |     |       |            |                      |                 |     |
|-------|-------|-----|-------|------------|----------------------|-----------------|-----|
| XAC1N | SHAFT | VHF | right | 150 (330)° | 4000ft -<br>14000ft  | 1.0min<br>timed | 230 |
| XAC1N | XAC   | NDB | right | 275 (95)°  | 15000ft -<br>60000ft | 1.5min<br>timed | 240 |
| XAC2B | AKSEL | VHF | right | 219 (39)°  | 5000ft -<br>14000ft  | 1.0min<br>timed | 230 |
| XAC2B | BACON | VHF | left  | 183 (3)°   | 4000ft -<br>14000ft  | 1.0min<br>timed | 230 |
| XAC2B | SHAFT | VHF | right | 150 (330)° | 4000ft -<br>14000ft  | 1.0min<br>timed | 230 |
| XAC2B | STING | VHF | right | 247 (67)°  | 4000ft -<br>14000ft  | 1.0min<br>timed | 230 |
| XAC2B | XAC   | NDB | right | 275 (95)°  | 15000ft -<br>60000ft | 1.5min<br>timed | 240 |
| XAC2C | CIVIC | VHF | right | 165 (345)° | 4000ft -<br>14000ft  | 1.0min<br>timed | 230 |
| XAC2C | CREAM | VHF | right | 111 (291)° | 4000ft -<br>14000ft  | 1.0min<br>timed | 230 |
| XAC2C | XAC   | NDB | right | 275 (95)°  | 15000ft -<br>60000ft | 1.5min<br>timed | 240 |
| XAC2H | CACAO | VHF | right | 152 (332)° | 4000ft -<br>60000ft  | DME 5.0mi       | 230 |
| XAC2H | CIVIC | VHF | right | 165 (345)° | 4000ft -<br>14000ft  | 1.0min<br>timed | 230 |
| XAC2H | CREAM | VHF | right | 111 (291)° | 4000ft -<br>14000ft  | 1.0min<br>timed | 230 |
| XAC2H | XAC   | NDB | right | 275 (95)°  | 15000ft -<br>60000ft | 1.5min<br>timed | 240 |
| XAC2N | AKSEL | VHF | right | 219 (39)°  | 5000ft -<br>14000ft  | 1.0min<br>timed | 230 |
| XAC2N | NYLON | VHF | left  | 177 (357)° | 4000ft -<br>14000ft  | 1.0min<br>timed | 230 |
| XAC2N | SHAFT | VHF | right | 150 (330)° | 4000ft -<br>14000ft  | 1.0min<br>timed | 230 |
| XAC2N | STING | VHF | right | 247 (67)°  | 4000ft -<br>14000ft  | 1.0min<br>timed | 230 |
| XAC2N | XAC   | NDB | right | 275 (95)°  | 15000ft -<br>60000ft | 1.5min<br>timed | 240 |
| XACL  | ANZAC | VHF | left  | 248 (68)°  | 5000ft -<br>14000ft  | 1.0min<br>timed | 230 |
| XACL  | SHAFT | VHF | right | 150 (330)° | 4000ft -<br>14000ft  | 1.0min<br>timed | 230 |
| XACL  | SNARE | VHF | right | 117 (297)° | 4000ft -<br>14000ft  | 1.0min<br>timed | 230 |
| XACL  | SPINE | VHF | left  | 168 (348)° | 4000ft -<br>14000ft  | 1.0min<br>timed | 230 |
| XACL  | XAC   | NDB | right | 275 (95)°  | 15000ft -<br>60000ft | 1.5min<br>timed | 240 |
| XACN  | KAIHO | VHF | right | 173 (353)° | 4000ft -<br>14000ft  | 1.0min<br>timed | 230 |
| XACN  | XAC   | NDB | right | 275 (95)°  | 15000ft -<br>60000ft | 1.5min<br>timed | 240 |

|      |       |     |       |            |                      |                 |     |
|------|-------|-----|-------|------------|----------------------|-----------------|-----|
| XACR | ANZAC | VHF | left  | 248 (68)°  | 5000ft -<br>14000ft  | 1.0min<br>timed | 230 |
| XACR | NEURO | VHF | right | 110 (290)° | 4000ft -<br>14000ft  | 1.0min<br>timed | 230 |
| XACR | NUMAN | VHF | left  | 180 (0)°   | 4000ft -<br>14000ft  | 1.0min<br>timed | 230 |
| XACR | XAC   | NDB | right | 275 (95)°  | 15000ft -<br>60000ft | 1.5min<br>timed | 240 |
| XACV | KAIHO | VHF | right | 173 (353)° | 4000ft -<br>14000ft  | 1.0min<br>timed | 230 |
| XACV | XAC   | NDB | right | 275 (95)°  | 15000ft -<br>60000ft | 1.5min<br>timed | 240 |

\*) magnetic outbound (inbound) holding course

## Disclaimer

The information on this website is not for real aviation. Use this data with the X-Plane flight simulator only! Data taken with kind consent from X-Plane source code and data files. Content is subject to change without notice.

## To be used with X-Plane simulation only