

# WAAA - Ujung Pandang-celebes Island - Ujung Pandang Hasanuddin

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## Airport details

|             |                     |
|-------------|---------------------|
| State       | South Sulawesi      |
| Country     | Indonesia           |
| Region      | WA                  |
| Elevation   | 43ft (13m)          |
| Timezone    | GMT +8              |
| Coordinates | -5.06083, 119.55444 |
| Type        | land                |
| ICAO code   | WAAA                |
| IATA code   | UPG                 |
| FAA code    | n/a                 |

## Runway info

|                |                           |
|----------------|---------------------------|
| Runway 03 / 21 |                           |
| length         | 3111m (10207ft)           |
| bearing        | 30° / 210°                |
| width          | 45m (148ft)               |
| surface        | asphalt                   |
| blast zone     | 60m (197ft) / 0m (0ft)    |
| Runway 13 / 31 |                           |
| length         | 2504m (8215ft)            |
| bearing        | 131° / 311°               |
| width          | 45m (148ft)               |
| surface        | asphalt                   |
| blast zone     | 61m (200ft) / 61m (200ft) |

## Communication

|                                               |         |
|-----------------------------------------------|---------|
| Ujung Pandang Hasanuddin ATIS                 | 126.250 |
| Ujung Pandang Hasanuddin ATIS                 | 126.250 |
| Ujung Pandang Hasanuddin ATIS                 | 126.250 |
| Ujung Pandang Hasanuddin ATIS                 | 126.250 |
| Ujung Pandang Hasanuddin<br>Hasanuddin Ground | 121.600 |
| Ujung Pandang Hasanuddin<br>Hasanuddin Ground | 121.600 |
| Ujung Pandang Hasanuddin<br>Hasanuddin Ground | 121.600 |
| Ujung Pandang Hasanuddin<br>Hasanuddin Ground | 121.600 |
| Ujung Pandang Hasanuddin TWR                  | 118.100 |
| Ujung Pandang Hasanuddin TWR                  | 118.100 |

|                                            |         |
|--------------------------------------------|---------|
| Ujung Pandang Hasanuddin TWR               | 118.100 |
| Ujung Pandang Hasanuddin TWR               | 118.100 |
| Ujung Pandang Hasanuddin UJUNG PANDANG APP | 120.600 |
| Ujung Pandang Hasanuddin UJUNG PANDANG APP | 120.600 |
| Ujung Pandang Hasanuddin UJUNG PANDANG APP | 119.400 |
| Ujung Pandang Hasanuddin UJUNG PANDANG APP | 120.600 |
| Ujung Pandang Hasanuddin UJUNG PANDANG APP | 120.600 |
| Ujung Pandang Hasanuddin UJUNG PANDANG APP | 119.400 |
| Ujung Pandang Hasanuddin UJUNG PANDANG APP | 119.400 |
| Ujung Pandang Hasanuddin UJUNG PANDANG APP | 119.400 |

## Approach frequencies

|           |    |       |         |
|-----------|----|-------|---------|
| ILS-cat-I | 21 | 110.1 | 18.00mi |
| ILS-cat-I | 03 | 110.5 | 18.00mi |
| ILS-cat-I | 13 | 111.3 | 18.00mi |
| 3° GS     | 21 | 110.1 | 18.00mi |
| 3° GS     | 03 | 110.5 | 18.00mi |
| 2.9° GS   | 13 | 111.3 | 18.00mi |

## Nearby beacons

| code | identifier       | dist | bearing | frequency |
|------|------------------|------|---------|-----------|
| MAK  | MAKASSAR VOR/DME | 0.9  | 56.1°   | 110       |
| MKS  | MAKASSAR VOR/DME | 2.1  | 309.1°  | 114.70    |

## Departure and arrival routes

|                     |         |
|---------------------|---------|
| Transition altitude | 11000ft |
| Transition level    | 13000ft |

| SID end points | distance | outbound direction |
|----------------|----------|--------------------|
| RW03           |          |                    |
| VENR1F, VENR1A | 150.4    | 39°                |
| KEND1E, KEND1A | 204.4    | 59°                |
| LEKE1A, LEKE1F | 148.7    | 71°                |
| SUGT1A, SUGT1F | 148.4    | 80°                |
| EMON1E, EMON1A | 279.1    | 93°                |
| NUKP1F, NUKP1A | 147.9    | 121°               |
| NETO1F, NETO1A | 148.3    | 143°               |

|      |                |       |      |
|------|----------------|-------|------|
| RW21 | LIPO1G, LIPO1A | 150.6 | 230° |
|      | ENDO1A, ENDO1G | 148.9 | 251° |
|      | BIMA1J         | 151.3 | 259° |
|      | NUNL1A         | 151.4 | 267° |
|      | KEVO1E, KEVO1A | 279.4 | 279° |
|      | GURN1A, GURN1E | 152.3 | 295° |
|      | GAMA1A, GAMA1G | 160.1 | 325° |
|      | NIVE1C, NIVE1A | 152.6 | 341° |
|      | VENR1G, VENR1B | 150.4 | 39°  |
|      | KEND1F, KEND1B | 204.4 | 59°  |
|      | LEKE1B, LEKE1G | 148.7 | 71°  |
|      | SUGT1B, SUGT1G | 148.4 | 80°  |
|      | EMON1B, EMON1F | 279.1 | 93°  |
|      | NUKP1G, NUKP1B | 147.9 | 121° |
| RW31 | NETO1G, NETO1B | 148.3 | 143° |
|      | LIPO1H, LIPO1B | 150.6 | 230° |
|      | ENDO1B, ENDO1H | 148.9 | 251° |
|      | BIMA1E         | 151.3 | 259° |
|      | NUNL1B         | 151.4 | 267° |
|      | KEVO1F, KEVO1B | 279.4 | 279° |
|      | GURN1F, GURN1B | 152.3 | 295° |
|      | GAMA1B, GAMA1H | 160.1 | 325° |
|      | NIVE1D, NIVE1B | 152.6 | 341° |
|      | VENR1E         | 150.4 | 39°  |
|      | LEKE1E         | 148.7 | 71°  |
|      | SUGT1E         | 148.4 | 80°  |
|      | NUKP1E         | 147.9 | 121° |
|      | NETO1E         | 148.3 | 143° |
|      | LIPO1E, LIPO1F | 150.6 | 230° |
|      | ENDO1F, ENDO1E | 148.9 | 251° |
|      | BIMA1C, BIMA1D | 151.3 | 259° |
|      | GAMA1F, GAMA1E | 160.1 | 325° |

| STAR starting points |                | distance | inbound direction |
|----------------------|----------------|----------|-------------------|
| RW03                 |                |          |                   |
|                      | LIPO1J, LIPO1C | 150.6    | 50°               |
|                      | ENDO1C, ENDO1J | 148.9    | 71°               |
|                      | BIMA1H, BIMA1A | 151.3    | 79°               |
|                      | KEVO1G, KEVO1C | 279.4    | 99°               |
|                      | GURN1C, GURN1G | 152.3    | 115°              |
|                      | GAMA1I, GAMA1C | 160.1    | 145°              |
|                      | NIVE1F         | 152.6    | 161°              |
|                      | ZELD1C         | 157.4    | 167°              |
|                      | VENR1I, VENR1C | 150.4    | 219°              |
|                      | KEND1C, KEND1G | 204.4    | 239°              |
|                      | LEKE1C, LEKE1I | 148.7    | 251°              |

|      |                |       |      |
|------|----------------|-------|------|
| RW13 | SUGT1I, SUGT1C | 148.4 | 260° |
|      | EMON1G, EMON1C | 279.1 | 273° |
|      | NUKP1I, NUKP1C | 147.9 | 301° |
|      | NETO1H, NETO1C | 148.3 | 323° |
|      | LIPO1L         | 150.6 | 50°  |
|      | ENDO1L         | 148.9 | 71°  |
|      | BIMA1F         | 151.3 | 79°  |
|      | NIVE1E         | 152.6 | 161° |
| RW21 | VENR1H         | 150.4 | 219° |
|      | LEKE1H         | 148.7 | 251° |
|      | SUGT1H         | 148.4 | 260° |
|      | NUKP1H         | 147.9 | 301° |
|      | LIPO1D, LIPO1K | 150.6 | 50°  |
|      | ENDO1D, ENDO1K | 148.9 | 71°  |
|      | BIMA1I, BIMA1B | 151.3 | 79°  |
|      | KEVO1H, KEVO1D | 279.4 | 99°  |
| RW31 | GURN1D, GURN1H | 152.3 | 115° |
|      | GAMA1D, GAMA1J | 160.1 | 145° |
|      | NIVE1G         | 152.6 | 161° |
|      | ZELD1D         | 157.4 | 167° |
|      | VENR1D, VENR1J | 150.4 | 219° |
|      | KEND1H, KEND1D | 204.4 | 239° |
|      | LEKE1J, LEKE1D | 148.7 | 251° |
|      | SUGT1D, SUGT1J | 148.4 | 260° |
| RW31 | EMON1H, EMON1D | 279.1 | 273° |
|      | NUKP1D, NUKP1J | 147.9 | 301° |
|      | NETO1D, NETO1I | 148.3 | 323° |
|      | LIPO1L         | 150.6 | 50°  |
|      | ENDO1L         | 148.9 | 71°  |
|      | BIMA1F         | 151.3 | 79°  |
|      | NIVE1E         | 152.6 | 161° |
|      | VENR1H         | 150.4 | 219° |
| RW31 | LEKE1H         | 148.7 | 251° |
|      | SUGT1H         | 148.4 | 260° |
|      | NUKP1H         | 147.9 | 301° |

## Holding patterns

| STAR name | hold at | type | turn  | heading*  | altitude             | leg             | speed limit |
|-----------|---------|------|-------|-----------|----------------------|-----------------|-------------|
| BIMA1A    | EMYRE   | VHF  | right | 269 (89)° | 13000ft -<br>14000ft | 1.0min<br>timed | ICAO rules  |
| BIMA1A    | OLVAS   | VHF  | left  | 209 (29)° | 4000ft -<br>7000ft   | 1.0min<br>timed | 220         |
| BIMA1B    | ARAJA   | VHF  | right | 10 (190)° | > 6000ft             | 1.0min<br>timed | ICAO rules  |

|        |       |     |       |            |                      |                 |            |
|--------|-------|-----|-------|------------|----------------------|-----------------|------------|
| BIMA1B | ARINA | VHF | right | 266 (86)°  | 10000ft -<br>12000ft | 1.0min<br>timed | ICAO rules |
| EMON1C | ALVIA | VHF | left  | 87 (267)°  | 14000ft -<br>18000ft | 1.0min<br>timed | ICAO rules |
| EMON1C | OLVAS | VHF | left  | 209 (29)°  | 4000ft -<br>7000ft   | 1.0min<br>timed | 220        |
| EMON1D | ARAJA | VHF | right | 10 (190)°  | > 6000ft             | 1.0min<br>timed | ICAO rules |
| EMON1D | REAGA | VHF | right | 137 (317)° | 10000ft -<br>12000ft | 1.0min<br>timed | ICAO rules |
| ENDO1C | EMYRE | VHF | right | 269 (89)°  | 13000ft -<br>14000ft | 1.0min<br>timed | ICAO rules |
| ENDO1C | OLVAS | VHF | left  | 209 (29)°  | 4000ft -<br>7000ft   | 1.0min<br>timed | 220        |
| ENDO1D | ARAJA | VHF | right | 10 (190)°  | > 6000ft             | 1.0min<br>timed | ICAO rules |
| ENDO1D | ARINA | VHF | right | 266 (86)°  | 10000ft -<br>12000ft | 1.0min<br>timed | ICAO rules |
| GAMA1C | EMYRE | VHF | right | 269 (89)°  | 13000ft -<br>14000ft | 1.0min<br>timed | ICAO rules |
| GAMA1C | OLVAS | VHF | left  | 209 (29)°  | 4000ft -<br>7000ft   | 1.0min<br>timed | 220        |
| GAMA1D | ARAJA | VHF | right | 10 (190)°  | > 6000ft             | 1.0min<br>timed | ICAO rules |
| GAMA1D | ARINA | VHF | right | 266 (86)°  | 10000ft -<br>12000ft | 1.0min<br>timed | ICAO rules |
| GURN1C | EMYRE | VHF | right | 269 (89)°  | 13000ft -<br>14000ft | 1.0min<br>timed | ICAO rules |
| GURN1C | OLVAS | VHF | left  | 209 (29)°  | 4000ft -<br>7000ft   | 1.0min<br>timed | 220        |
| GURN1D | ARAJA | VHF | right | 10 (190)°  | > 6000ft             | 1.0min<br>timed | ICAO rules |
| GURN1D | ARINA | VHF | right | 266 (86)°  | 10000ft -<br>12000ft | 1.0min<br>timed | ICAO rules |
| KEND1C | ALVIA | VHF | left  | 87 (267)°  | 14000ft -<br>18000ft | 1.0min<br>timed | ICAO rules |
| KEND1C | OLVAS | VHF | left  | 209 (29)°  | 4000ft -<br>7000ft   | 1.0min<br>timed | 220        |
| KEND1D | ARAJA | VHF | right | 10 (190)°  | > 6000ft             | 1.0min<br>timed | ICAO rules |
| KEND1D | REAGA | VHF | right | 137 (317)° | 10000ft -<br>12000ft | 1.0min<br>timed | ICAO rules |
| KEVO1C | EMYRE | VHF | right | 269 (89)°  | 13000ft -<br>14000ft | 1.0min<br>timed | ICAO rules |
| KEVO1C | OLVAS | VHF | left  | 209 (29)°  | 4000ft -<br>7000ft   | 1.0min<br>timed | 220        |
| KEVO1D | ARAJA | VHF | right | 10 (190)°  | > 6000ft             | 1.0min<br>timed | ICAO rules |
| KEVO1D | ARINA | VHF | right | 266 (86)°  | 10000ft -<br>12000ft | 1.0min<br>timed | ICAO rules |
| LEKE1C | ALVIA | VHF | left  | 87 (267)°  | 14000ft -<br>18000ft | 1.0min<br>timed | ICAO rules |

|        |       |     |       |            |                   |              |            |
|--------|-------|-----|-------|------------|-------------------|--------------|------------|
| LEKE1C | OLVAS | VHF | left  | 209 (29)°  | 4000ft - 7000ft   | 1.0min timed | 220        |
| LEKE1D | ARAJA | VHF | right | 10 (190)°  | > 6000ft          | 1.0min timed | ICAO rules |
| LEKE1D | REAGA | VHF | right | 137 (317)° | 10000ft - 12000ft | 1.0min timed | ICAO rules |
| LIPO1C | EMYRE | VHF | right | 269 (89)°  | 13000ft - 14000ft | 1.0min timed | ICAO rules |
| LIPO1C | OLVAS | VHF | left  | 209 (29)°  | 4000ft - 7000ft   | 1.0min timed | 220        |
| LIPO1D | ARAJA | VHF | right | 10 (190)°  | > 6000ft          | 1.0min timed | ICAO rules |
| LIPO1D | ARINA | VHF | right | 266 (86)°  | 10000ft - 12000ft | 1.0min timed | ICAO rules |
| NETO1C | ALVIA | VHF | left  | 87 (267)°  | 14000ft - 18000ft | 1.0min timed | ICAO rules |
| NETO1C | OLVAS | VHF | left  | 209 (29)°  | 4000ft - 7000ft   | 1.0min timed | 220        |
| NETO1D | ARAJA | VHF | right | 10 (190)°  | > 6000ft          | 1.0min timed | ICAO rules |
| NETO1D | REAGA | VHF | right | 137 (317)° | 10000ft - 12000ft | 1.0min timed | ICAO rules |
| NUKP1C | ALVIA | VHF | left  | 87 (267)°  | 14000ft - 18000ft | 1.0min timed | ICAO rules |
| NUKP1C | OLVAS | VHF | left  | 209 (29)°  | 4000ft - 7000ft   | 1.0min timed | 220        |
| NUKP1D | ARAJA | VHF | right | 10 (190)°  | > 6000ft          | 1.0min timed | ICAO rules |
| NUKP1D | REAGA | VHF | right | 137 (317)° | 10000ft - 12000ft | 1.0min timed | ICAO rules |
| SUGT1C | ALVIA | VHF | left  | 87 (267)°  | 14000ft - 18000ft | 1.0min timed | ICAO rules |
| SUGT1C | OLVAS | VHF | left  | 209 (29)°  | 4000ft - 7000ft   | 1.0min timed | 220        |
| SUGT1D | ARAJA | VHF | right | 10 (190)°  | > 6000ft          | 1.0min timed | ICAO rules |
| SUGT1D | REAGA | VHF | right | 137 (317)° | 10000ft - 12000ft | 1.0min timed | ICAO rules |
| VENR1C | ALVIA | VHF | left  | 87 (267)°  | 14000ft - 18000ft | 1.0min timed | ICAO rules |
| VENR1C | OLVAS | VHF | left  | 209 (29)°  | 4000ft - 7000ft   | 1.0min timed | 220        |
| VENR1D | ARAJA | VHF | right | 10 (190)°  | > 6000ft          | 1.0min timed | ICAO rules |
| VENR1D | REAGA | VHF | right | 137 (317)° | 10000ft - 12000ft | 1.0min timed | ICAO rules |
| ZELD1C | EMYRE | VHF | right | 269 (89)°  | 13000ft - 14000ft | 1.0min timed | ICAO rules |
| ZELD1C | OLVAS | VHF | left  | 209 (29)°  | 4000ft - 7000ft   | 1.0min timed | 220        |
| ZELD1D | ARAJA | VHF | right | 10 (190)°  | > 6000ft          | 1.0min timed | ICAO rules |

|        |       |     |       |           |                      |                 |            |
|--------|-------|-----|-------|-----------|----------------------|-----------------|------------|
| ZELD1D | ARINA | VHF | right | 266 (86)° | 10000ft -<br>12000ft | 1.0min<br>timed | ICAO rules |
|--------|-------|-----|-------|-----------|----------------------|-----------------|------------|

\*) magnetic outbound (inbound) holding course

## Disclaimer

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## To be used with X-Plane simulation only