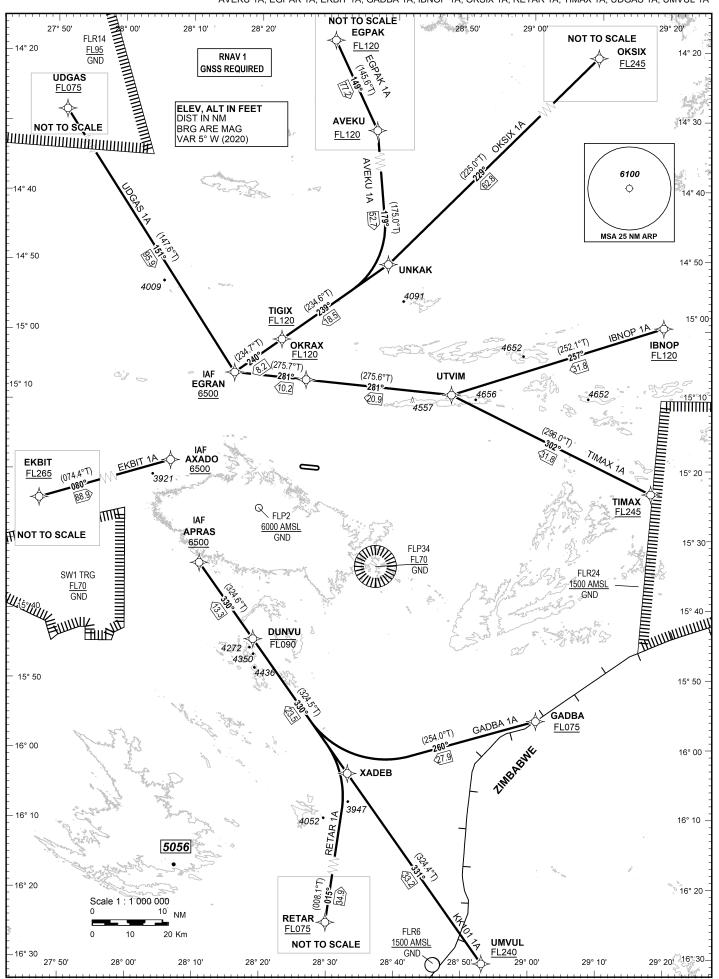
STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

TRANSITION ALTITUDE 6000 APP 121.300 120.100 TWR 118.100 KENNETH KAUNDA INTL/Lusaka (FLKK) RNAV STAR RWY 10

AVEKU 1A, EGPAK 1A, EKBIT 1A, GADBA 1A, IBNOP 1A, OKSIX 1A, RETAR 1A, TIMAX 1A, UDGAS 1A, UMVUL 1A



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AVEKU 1A, EGPAK 1A, EKBIT 1A, GADBA 1A, IBNOP 1A, OKSIX 1A, RETAR 1A, TIMAX 1A, UDGAS 1A, UMVUL 1A

| ABUL | AR DES | CRIPTIO | N | | | | | | | | | |
|------------------|--------------------|------------------------|----------------|----------------------------|---------------------------|-----------------------------|-------------------|------------------|---------------------|-----------|----------------|-----------------------------|
| | TAR RWY 1 | | | | | | | | | | | |
| Serial Number | Path Descriptor | Waypoint Identifier | Fly- over | Course M°(T°) | Magnetic Variation (°) | Distance (NM) / Duration | Turn Direction | Altitude (FT) | Speed Limit (KT) | VPA (%) | Rec Navaids | Navigation Specification |
| 010 | IF. | AVEKU | - | _ | - | _ | _ | +FL120 | - | _ | _ | RNAV 1 |
| 020 | TF | UNKAK | + - | 179 (175.0) | - | 52.7 | | +I LIZU | | - | | RNAV 1 |
| 030 | TF | TIGIX | + - | 239 (234.6) | - | 18.5 | | +FL120 | | 1 | | RNAV 1 |
| 040 | TF | EGRAN | + | 240 (234.7) | | 8.2 | - | +6500 | - | - | - | |
| GPAK 1A | | EGRAN | - | 240 (234.7) | - | 0.2 | - | +6500 | - | - | - | RNAV 1 |
| | | | 1 | 1 | T | I | I | | 1 | 1 | | |
| Serial Number | Path Descriptor | Waypoint Identifier | Fly- over | Course M°(T°) | Magnetic Variation (°) | Distance (NM) / Duration | Turn Direction | Altitude (FT) | Speed Limit (KT) | VPA (%) | Rec Navaids | Navigation Specification |
| 10 | IF | EGPAK | - | - | - | - | - | +FL120 | - | - | - | RNAV 1 |
| 20 | TF | AVEKU | - | 149 (145.6) | - | 77.2 | - | - | - | - | - | RNAV 1 |
| 30 | TF | UNKAK | - | 179 (175.0) | - | 51.9 | - | - | - | - | - | RNAV 1 |
| 40 | TF | TIGIX | - | 239 (234.6) | _ | 18.0 | - | +FL120 | - | - | - | RNAV 1 |
| 50 | TF | EGRAN | - | 240 (234.7) | - | 8.2 | - | +6500 | _ | - | - | RNAV 1 |
| KBIT 1A | | | | (== / | 1 | | | | 1 | ı | | |
| Serial | Path | Waypoint | Fly- | 0 140/70 | Magnetic | Distance (NM) / | Turn | Altitude | Speed Limit | 1/54 (0/) | Rec | Navigation |
| Number | Descriptor | Identifier | over | Course M°(T°) | Variation (°) | Duration | Direction | (FT) | (KT) | VPA (%) | Navaids | Specification |
| 010 | IF. | EKBIT | - | _ | | _ | _ | +FL265 | - | _ | _ | RNAV 1 |
| 020 | TF | AXADO | - | 080 (074.4) | - | 88.9 | - | +6500 | - | - | - | RNAV 1 |
| | | T YVYDO | | 1 000 (074.4) | - | 00.5 | | 1 -0000 | | | | L/MAY I |
| ADBA 1 | | <u> </u> | 1 | I | 1 | I | 1 | | | | | |
| Serial Number | Path Descriptor | Waypoint Identifier | Fly- over | Course M°(T°) | Magnetic Variation (°) | Distance (NM) / Duration | Turn Direction | Altitude (FT) | Speed Limit (KT) | VPA (%) | Rec Navaids | Navigation Specification |
| 010 | IF | GADBA | - | - | - | - | - | +FL075 | - | - | - | RNAV 1 |
| 020 | TF | XADEB | - | 260 (254.0) | - | 27.9 | - | - | - | - | - | RNAV 1 |
| 030 | TF | DUNVU | - | 330 (324.5) | _ | 23.5 | - | -FL090 | _ | _ | - | RNAV 1 |
| 040 | TF | APRAS | - | 330 (324.6) | _ | 13.3 | | +6500 | _ | - | _ | RNAV 1 |
| NOP 1A | | I ALIVAO | <u> </u> | 330 (324.0) | | 10.0 | | 10000 | | | | I INIVAV I |
| | D: #: | 14/ | T | | 14 | D'-1 (AUA) / | T | All'Out | 0 | | D | Man faraffara |
| Serial Number | Path Descriptor | Waypoint Identifier | Fly- over | Course M°(T°) | Magnetic Variation (°) | Distance (NM) / Duration | Turn Direction | Altitude (FT) | Speed Limit (KT) | VPA (%) | Rec Navaids | Navigation Specification |
| | <u> </u> | | | | Variation () | Daration | Birodion | | (//// | | 71474140 | |
| 010 | IF. | IBNOP | - | - | - | - | - | +FL120 | - | - | - | RNAV 1 |
| 020 | TF | UTVIM | - | 257 (252.1) | - | 31.8 | - | - | - | - | - | RNAV 1 |
| 030 | TF | OKRAX | - | 281 (275.6) | - | 20.9 | - | +FL120 | - | - | - | RNAV 1 |
| 040 | TF | EGRAN | - | 281 (275.7) | | 10.2 | - | +6500 | - | - | - | RNAV 1 |
| KSIX 1A | | | | | | | | | | | | |
| Serial Number | Path Descriptor | Waypoint Identifier | Fly- over | Course M°(T°) | Magnetic Variation (° | Distance (NM) / Duration | Turn Direction | Altitude (FT) | Speed Limit (KT) | VPA (%) | Rec Navaids | Navigation Specification |
| | · ' | | - | | Variation | Daration | Diroction | | (//// | | 71474140 | |
| 010 | IF. | OKSIX | - | - | - | - | - | +FL245 | - | - | - | RNAV 1 |
| 020 | TF | UNKAK | - | 229 (225.0) | - | 62.8 | - | - | - | - | - | RNAV 1 |
| 030 | TF | TIGIX | - | 239 (234.6) | - | 18.5 | - | +FL120 | - | - | - | RNAV 1 |
| 040 | TF | EGRAN | - | 240 (234.7) | - | 8.2 | - | +6500 | - | - | - | RNAV 1 |
| ETAR 1A | | Г | _ | ı | T | Т | 1 | I | 1 | T | | |
| Serial Number | Path Descriptor | Waypoint Identifier | Fly- over | Course M°(T°) | Magnetic Variation (°) | Distance (NM) / Duration | Turn Direction | Altitude (FT) | Speed Limit (KT) | VPA (%) | Rec Navaids | Navigation Specification |
| 010 | IF | RETAR | - | - | - | - | - | +FL075 | - | - | - | RNAV 1 |
| 020 | TF | XADEB | - | 015 (008.1) | - | 34.9 | - | - | - | - | - | RNAV 1 |
| 030 | TF | DUNVU | <u> </u> | 330 (324.5) | - | 23.2 | - | -FL090 | - | - | - | RNAV 1 |
| 040 | TF | APRAS | - | 330 (324.6) | - | 13.3 | _ | +6500 | _ | _ | _ | RNAV 1 |
| MAX 1A | | 1 | 1 | 1 550 (524.0) | 1 | 10.0 | 1 | 1 0000 | 1 | 1 | I | 1 10000 |
| | D-# | 14/ | F1. | | M | Dieta (AMA) / | T | A11111 | One-dl' " | | D | Manda P |
| Serial Number | Path Descriptor | Waypoint Identifier | Fly- over | Course M°(T°) | Magnetic Variation (°) | Distance (NM) / Duration | Turn Direction | Altitude (FT) | Speed Limit (KT) | VPA (%) | Rec Navaids | Navigation Specification |
| 010 | IF. | TIMAX | - | - | - | - | - | +FL245 | - | _ | - | RNAV 1 |
| 020 | TF | UTVIM | - | 302 (296.0) | - | 31.8 | | +FLZ45 - | | | - | RNAV 1 |
| 030 | | - | - | | | | - | | - | - | | |
| | TF | OKRAX | | 281 (275.6) | - | 20.9 | - | +FL120 | - | - | - | RNAV 1 |
| 040 | TF | EGRAN | - | 281 (275.7) | - | 10.2 | - | +6500 | - | - | - | RNAV 1 |
| DGAS 1 | | | T | ı | 1 | I | 1 | | | | | |
| Serial | Path | Waypoint | Fly- | Course M°(T°) | Magnetic | Distance (NM) / | Turn | Altitude | Speed Limit | VPA (%) | Rec | Navigation |
| Number | Descriptor | Identifier | over | | Variation (°) | Duration | Direction | (FT) | (KT) | | Navaids | Specification |
| 010 | IF | UDGAS | - | - | - | - | - | +FL075 | - | - | - | RNAV 1 |
| 020 | TF | EGRAN | - | 151 (147.6) | - | 95.9 | - | +6500 | - | - | - | RNAV 1 |
| MVUL 1 | 1 | | | | • | | | | | | • | |
| Serial | Path | Maynaint | E1 | 1 | Magnetic | Distance (NM) / | Turn | Altitudo | Spood Limit | | Poo | Mayigation |
| Seriai Number | Descriptor | Waypoint Identifier | Fly- over | Course M°(T°) | Magnetic Variation (°) | Distance (NNI) / Duration | Turn Direction | Altitude (FT) | Speed Limit (KT) | VPA (%) | Rec Navaids | Navigation Specification |
| | Dogonpion | | _ | | + '' | | | +FL240 | <u> </u> | | | |
| | | | | | 1 - | - | - | 1 1 1 2 1 1 1 | I - | - | - | RNAV 1 |
| 010 | IF TE | UMVUL | - | | | | | TFLZ40 | | + | | |
| | IF TF TF | XADEB DUNVU | - | 331 (324.4) 330 (324.5) | - | 33.2 23.5 | - | -FL090 | - | - | - | RNAV 1 RNAV 1 |

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AVEKU 1A, EGPAK 1A, EKBIT 1A, GADBA 1A, IBNOP 1A, OKSIX 1A, RETAR 1A, TIMAX 1A, UDGAS 1A, UMVUL 1A

WAYPOINT LIST RNAV STAR RWY 10

| WaypointIdentifier | Coord | dinates | WaypointIdentifier | Coordinates | | | |
|--------------------|--------------|---------------|--------------------|--------------|---------------|--|--|
| APRAS | S 15 33 33.8 | E 028 10 55.0 | UNKAK | S 14 50 42.0 | E 028 38 35.9 | | |
| AVEKU | S 13 58 00.0 | E 028 33 54.0 | TIGIX | S 15 01 28.3 | E 028 22 58.4 | | |
| AXADO | S 15 18 50.6 | E 028 06 36.8 | OKSIX | S 14 06 12.0 | E 029 24 30.0 | | |
| DUNVU | S 14 44 29.1 | E 028 18 55.4 | RETAR | S 16 37 46.8 | E 028 28 18.0 | | |
| EGPAK | S 12 54 06.0 | E 027 49 06.0 | TIMAX | S 15 23 24.0 | E 029 17 36.0 | | |
| EGRAN | S 15 06 15.1 | E 028 16 01.4 | UDGAS | S 13 44 59.6 | E 027 22 58.5 | | |
| EKBIT | S 15 43 05.0 | E 026 37 59.0 | UMVUL | S 16 30 52.0 | E 028 53 08.0 | | |
| GADBA | S 15 56 03.2 | E 029 00 53.2 | | | | | |
| IBNOP | S 14 59 36.0 | E 029 19 18.0 | | | | | |
| XADEB | S 16 03 42.8 | E 028 33 03.9 | | | | | |
| OKRAK | S 15 07 16.7 | E 028 26 33.9 | | | | | |
| UNKAK | S 14 50 42.0 | E 028 38 35.9 | | | | | |

ROUTING

| NAME | TEXT | | | | | |
|----------|--|--|--|--|--|--|
| AVEKU 1A | From AVEKU track 179° to UNKAK, track 239° to TIGIX, track 240° to EGRAN. | | | | | |
| | MEL/MEA: AVEKU AT or ABOVE FL120, TIGIX AT or ABOVE FL120, EGRAN AT or ABOVE UNKAK 6500'. | | | | | |
| EGPAK 1A | From EGPAK track 149° to AVEKU, track 179° to UNKAK, track 239° to TIGIX, track 240° to EGRAN. | | | | | |
| | MEL/MEA: EGPAK AT or ABOVE FL120, TIGIX AT or ABOVE FL120, EGRAN AT or ABOVE 6500'. | | | | | |
| EKBIT 1A | From EKBIT track 080° to AXADO. | | | | | |
| | MEL/MEA: EKBIT AT or ABOVE FL265, AXADO AT or ABOVE 6500'. | | | | | |
| GADBA 1A | From GADBA track 260° to XADEB, track 330° to DUNVU, track 330° to APRAS. | | | | | |
| | MEL/MEA: GADBA AT or ABOVE FL075, DUNVU AT or BELOW FL090, APRAS AT or ABOVE 6500'. | | | | | |
| IBNOP 1A | From IBNOP track 257° to UTVIM, track 281° to OKRAX, track 281° to EGRAN. | | | | | |
| | MEL/MEA: IBNOP AT or ABOVE FL120, OKRAX AT or ABOVE FL120, EGRAN AT or ABOVE 6500'. | | | | | |
| OKSIX 1A | From OKSIX track 229° to UNKAK, track 239° to TIGIX, track 240° to EGRAN. | | | | | |
| | MEL/MEA: OKSIX AT or ABOVE FL245, TIGIX AT or ABOVE FL120, EGRAN AT or ABOVE 6500'. | | | | | |
| RETAR 1A | From RETAR track 015° to XADEB, track 330° to DUNVU, track 330° to APRAS. | | | | | |
| | MEL/MEA: RETAR AT or ABOVE FL075, DUNVU AT or BELOW FL090, APRAS AT or ABOVE 6500'. | | | | | |
| TIMAX 1A | From TIMAX track 302° to UTVIM, track 281° to OKRAX, track 281° to EGRAN. | | | | | |
| | MEL/MEA: TIMAX AT or ABOVE FL245, OKRAX AT or ABOVE FL120, EGRAN AT or ABOVE 6500'. | | | | | |
| UDGAS 1A | From UDGAS track 151° to EGRAN. | | | | | |
| | MEL/MEA: UDGAS AT or ABOVE FL075, EGRAN AT or ABOVE 6500'. | | | | | |
| UMVUL 1A | From UMVUL track 331° to XADEB, track 330° to DUNVU, track 330° to APRAS. | | | | | |
| | MEL/MEA: UMVUL AT or ABOVE FL240, DUNVU AT or BELOW FL090, APRAS AT or ABOVE 6500'. | | | | | |