

STANDARD ARRIVAL CHART -  
INSTRUMENT (STAR) - ICAO

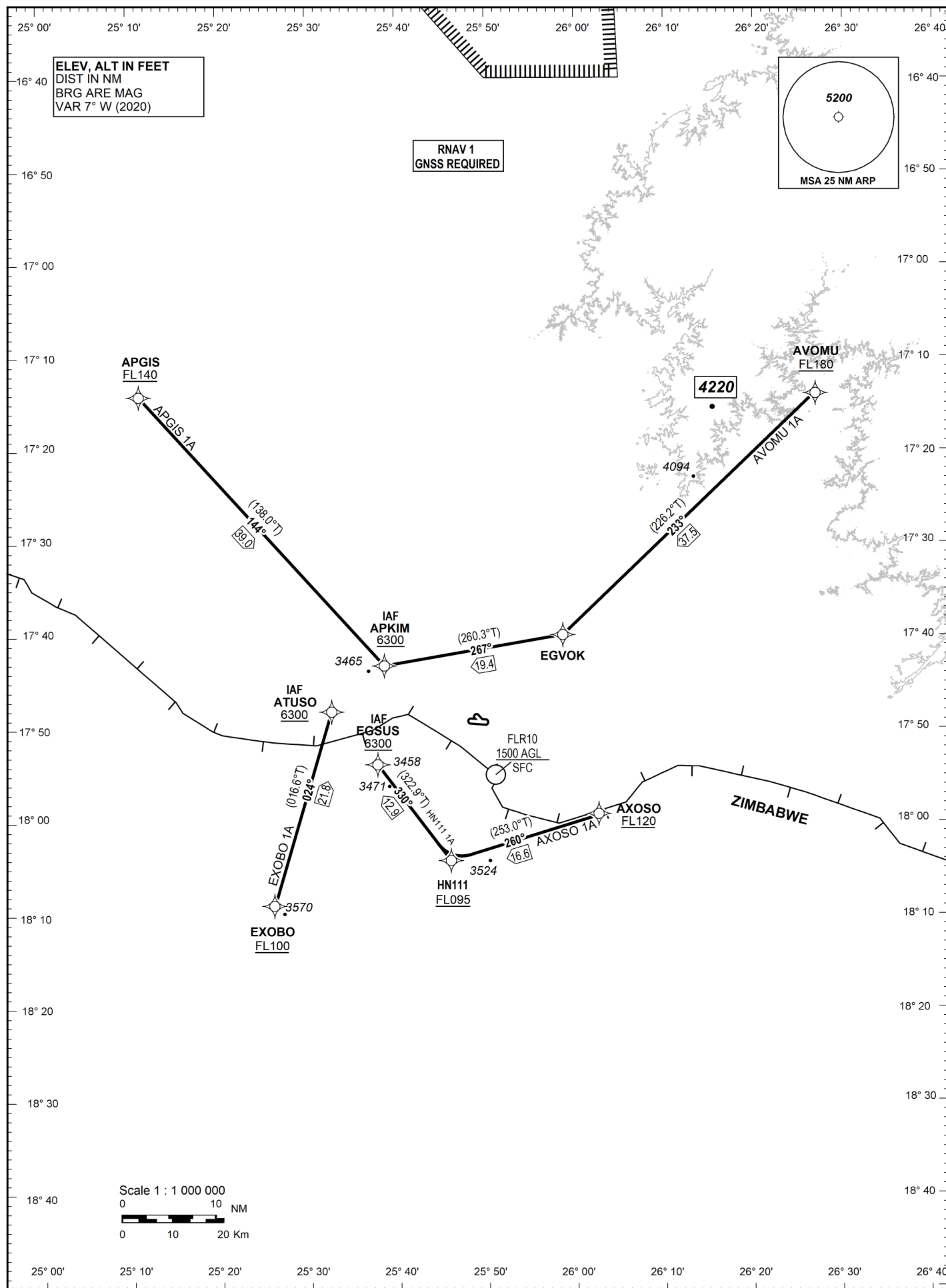
HARRY MWAANGA NKUMBULA INTL/Livingstone  
(FLHN)

RNAV STAR RWY 10

TRANSITION ALTITUDE  
5000

APP 124.300  
TWR 118.100

APGIS 1A, AVOMU 1A, AXOSO 1A, EXOBO 1A, HN111 1A



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TABULAR DESCRIPTION

RNAV STAR RWY 10  
APGIS 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 |
|---------------|-----------------|---------------------|----------|---------------|------------------------|--------------------------|----------------|---------------|------------------|---------|-------------|--------------------------|
| 010           | IF              | APGIS               | -        | -             | -                      | -                        | -              | +FL140        | -                | -       | -           | RNAV 1                   |
| 020           | TF              | APKIM               | -        | 144 (138.0)   | -                      | 39.0                     | -              | +6300         | -                | -       | -           | RNAV 1                   |

AVOMU 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 |
|---------------|-----------------|---------------------|----------|---------------|------------------------|--------------------------|----------------|---------------|------------------|---------|-------------|--------------------------|
| 010           | IF              | AVOMU               | -        | -             | -                      | -                        | -              | +FL180        | -                | -       | -           | RNAV 1                   |
| 020           | TF              | EGVOK               | -        | 233 (226.2)   | -                      | 37.5                     | -              | -             | -                | -       | -           | RNAV 1                   |
| 030           | TF              | APKIM               | -        | 267 (260.3)   | -                      | 19.4                     | -              | +6300         | -                | -       | -           | RNAV 1                   |

AXOSO 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 |
|---------------|-----------------|---------------------|----------|---------------|------------------------|--------------------------|----------------|---------------|------------------|---------|-------------|--------------------------|
| 010           | IF              | AXOSO               | -        | -             | -                      | -                        | -              | +FL120        | -                | -       | -           | RNAV 1                   |
| 020           | TF              | HN111               | -        | 260 (253.0)   | -                      | 16.6                     | -              | +FL095        | -                | -       | -           | RNAV 1                   |
| 030           | TF              | EGSUS               | -        | 330 (322.9)   | -                      | 12.9                     | -              | +6300         | -                | -       | -           | RNAV 1                   |

EXOBO 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 |
|---------------|-----------------|---------------------|----------|---------------|------------------------|--------------------------|----------------|---------------|------------------|---------|-------------|--------------------------|
| 010           | IF              | EXOBO               | -        | -             | -                      | -                        | -              | +FL100        | -                | -       | -           | RNAV 1                   |
| 020           | TF              | ATUSO               | -        | 024 (016.6)   | -                      | 21.8                     | -              | +6300         | -                | -       | -           | RNAV 1                   |

HN111 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 |
|---------------|-----------------|---------------------|----------|---------------|------------------------|--------------------------|----------------|---------------|------------------|---------|-------------|--------------------------|
| 010           | IF              | HN111               | -        | -             | -                      | -                        | -              | +FL095        | -                | -       | -           | RNAV 1                   |
| 020           | TF              | EGSUS               | -        | 330 (322.9)   | -                      | 12.9                     | -              | +6300         | -                | -       | -           | RNAV 1                   |

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WAYPOINT LIST  
RNAV STAR RWY 10

| WaypointIdentifier | Coordinates  |               |
|--------------------|--------------|---------------|
| APGIS              | S 17 14 13.0 | E 025 11 11.6 |
| APKIM              | S 17 43 14.1 | E 025 38 31.5 |
| ATUSO              | S 17 48 09.8 | E 025 32 34.8 |
| AVOMU              | S 17 13 58.0 | E 026 26 53.0 |
| AXOSO              | S 17 59 22.1 | E 026 02 33.8 |
| EGSUS              | S 17 53 51.6 | E 025 37 43.5 |
| EGVOK              | S 17 39 57.9 | E 025 58 34.5 |
| EXOBO              | S 18 09 09.0 | E 025 26 02.7 |
| HN111              | S 18 04 13.1 | E 025 45 54.0 |

ROUTING

| NAME     | TEXT  |
|----------|---|
| APGIS 1A | From APGIS track 144° to APKIM.<br>MEL/MEA: APGIS AT or ABOVE FL140, APKIM AT or ABOVE 6300'.   |
| AVOMU 1A | From AVOMU track 233° to EGVOK, track 267° to APKIM.<br>MEL/MEA: AVOMU AT or ABOVE FL180, APKIM AT or ABOVE 6300'.                          |
| AXOSO 1A | From AXOSO track 260° to HN111, track 330° to EGSUS.<br>MEL/MEA: AXOSO AT or ABOVE FL120, HN111 AT or ABOVE FL095, EGSUS AT or ABOVE 6300'. |
| EXOBO 1A | From EXOBO track 024° to ATUSO.<br>MEL/MEA: EXOBO AT or ABOVE FL100, ATUSO AT or ABOVE 6300'.   |
| HN111 1A | From HN111 track 330° to EGSUS.<br>MEL/MEA: HN111 AT or ABOVE FL095, EGSUS AT or ABOVE 6300'.   |