

STANDARD ARRIVAL  
CHART -  
INSTRUMENT  
(STAR)

TRANSITIONAL ALTITUDE  
**7000'**  
TRANSITIONAL LEVEL  
**ATC**

KIMBERLEY TWR: 118.20  
APN: 122.65  
APP: 119.40  
BLOEMFONTEIN APP: 124.30

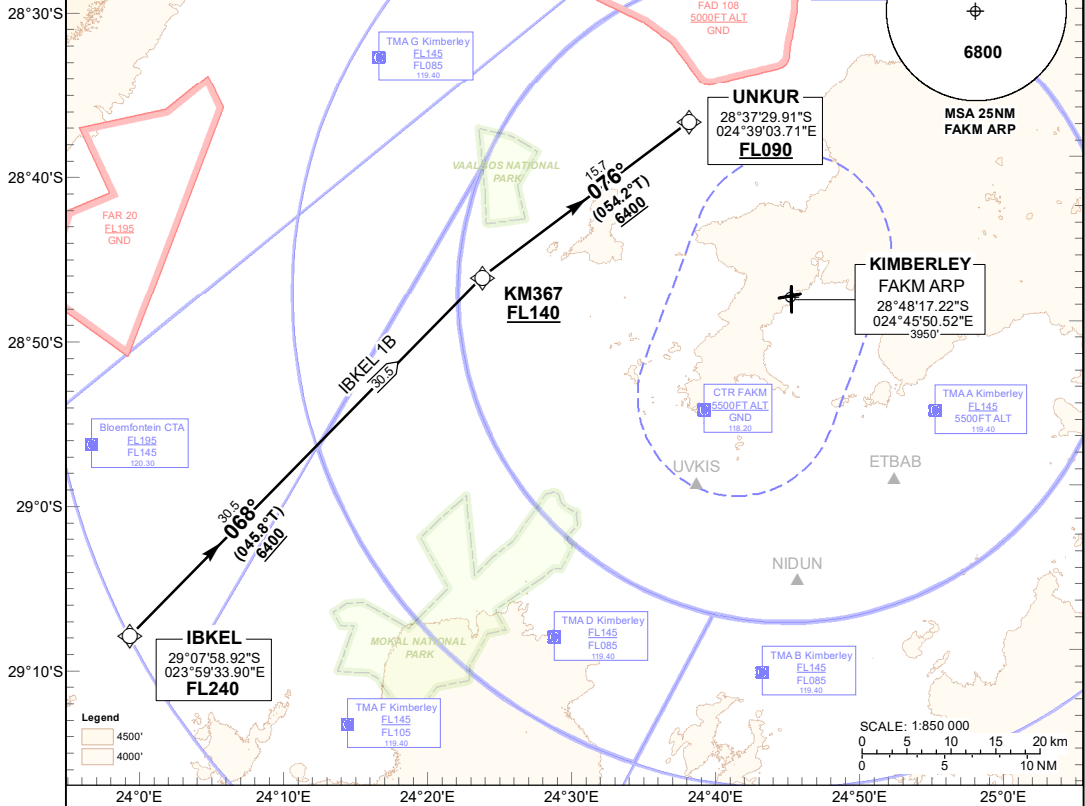
KIMBERLEY  
RNAV (GNSS) RWY 20  
IBKEL 1B

ELEV, ALT & HGT IN FEET  
DIST IN NM  
BRG ARE MAG  
VAR 22°W (2020)

NOTE

1. If unable to comply with SID or STAR, notify ATC.
2. Cross the CTR boundary at or above 5500' ALT.
3. SIDs and STARs only in force when surveillance RADAR is in operation.

RNAV 1 REQUIRED



**IBKEL 1B:**  
**RWY 20**

Leave IBKEL for KM367. At KM367 route to UNKUR. At UNKUR continue on the RNAV (GNSS) APCH RWY 20.

**COMMUNICATION FAILURE PROCEDURE (Squawk 7600)**

**Before IBKEL:** Proceed to IBKEL and continue on the "After IBKEL" Communication Failure Procedure.

**After IBKEL:** Continue on the IBKEL 1B RNAV (GNSS) RWY 20 STAR to UNKUR. At UNKUR route to GADSO. At GADSO comply with the RNP APCH RWY 20 Communication Failure Procedure.

CHANGE: NEW Procedure

| RNAV (GNSS) ARRIVAL FROM IBKEL TO FAKM RWY 20 |                 |                     |                 |                  |         |                |                 |               |               |                |         |                    |                          |
|-----------------------------------------------|-----------------|---------------------|-----------------|------------------|---------|----------------|-----------------|---------------|---------------|----------------|---------|--------------------|--------------------------|
| Serial Number                                 | Path Descriptor | Waypoint Identifier | Latitude        | Longitude        | Flyover | Turn Direction | Bearing °M (°T) | Distance (NM) | Altitude (FT) | Speed (KT IAS) | VPA/TCH | Magnetic Variation | Navigation Specification |
| 10                                            | IF              | IBKEL               | 29°07'58.9157"S | 023°59'33.9043"E | -       | -              | -               | -             | 24000         | -              | -       | 21.76              | RNAV 1                   |
| 20                                            | TF              | KM367               | 28°46'41.4897"S | 024°24'34.0033"E | -       | -              | 068 (045.8)     | 30.53         | +14000        | -              | -       | 21.76              | RNAV 1                   |
| 30                                            | TF              | UNKUR               | 28°37'29.9100"S | 024°39'03.7100"E | -       | -              | 076 (054.2)     | 15.7          | +9000         | -              | -       | 21.76              | RNAV 1                   |
| 40                                            | TF              | GADSO               | 28°37'28.2800"S | 024°52'41.8600"E | -       | -              | -               | -             | -             | -              | -       | 21.76              | RNAV 1                   |

\* Communication Failure Waypoint

\* RNAV 1 REQUIRED

CHANGE: NEW