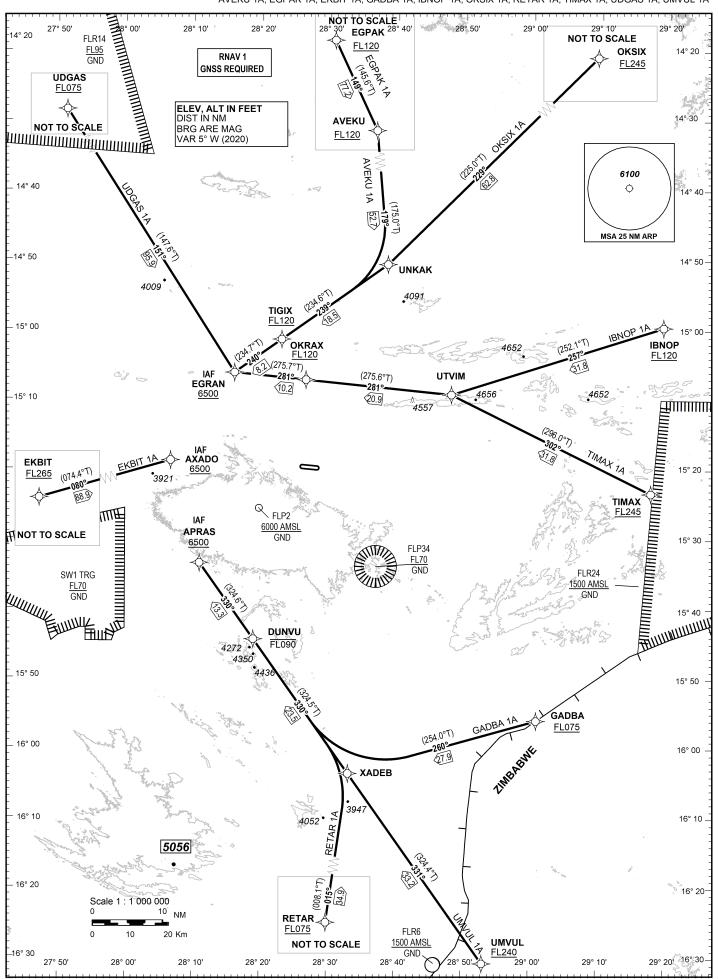
STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

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



# STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

## KENNETH KAUNDA INTL/Lusaka (FLKK) RNAV STAR RWY 10

ABUL	AR DES	SKIPTIO	N									
NAV ST	TAR RWY 1	0										
Serial	Path	Waypoint	Fly-		Magnetic	Distance (NM) /	Turn	Altitude	Speed Limit		Rec	Navigation
Number	Descriptor	Identifier	over	Course M°(T°)	Variation (°)	Duration	Direction	(FT)	(KT)	VPA (%)	Navaids	Specification
010	IF	AVEKU	-	-	-	-	-	+FL120	-	-	-	RNAV 1
020	TF	UNKAK	-	179 (175.0)	-	52.7	-	-	-	-	-	RNAV 1
030	TF	TIGIX	-	239 (234.6)	-	18.5	-	+FL120	-	-	-	RNAV 1
040	TF	EGRAN	-	240 (234.7)	-	8.2	-	+6500	-	-	-	RNAV 1
SPAK 1	4	1			_			1		1	T	
Serial	Path	Waypoint	Fly-	Course M°(T°)	Magnetic	Distance (NM) /	Turn	Altitude	Speed Limit	VPA (%)	Rec	Navigation
Number	Descriptor	Identifier	over	Course III (1 )	Variation (°)	Duration	Direction	(FT)	(KT)	77 71 (70)	Navaids	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
(BIT 1A	I		T	I	T	T		I	T	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
	<u>'</u>				· ' '	Duration			<del>  ' '</del>	-		,
010 020	IF TF	EKBIT	-	000 (074.4)	-		-	+FL265 +6500	-	-	-	RNAV 1
		AXADO	-	080 (074.4)	-	88.9	-	1 +0000	-	-	-	RNAV 1
ADBA 1/			Τ	I	T ::		T -			1	_	
Serial Number	Path Descriptor	Waypoint Identifier	Fly- over	Course M°(T°)	Magnetic	Distance (NM) / Duration	Turn Direction	Altitude (FT)	Speed Limit	VPA (%)	Rec Navaids	Navigation Specification
	· '		-	ļ	Variation (°)	Duration	Direction	` ′	(KT)	<u> </u>	ivavaius	'
010	IF TE	GADBA	-	-	-	- 07.0	-	+FL075	-	-	-	RNAV 1
020	TF TF	XADEB DUNVU	-	260 (254.0) 330 (324.5)	-	27.9 23.5	-	-FL090	-	-	-	RNAV 1 RNAV 1
040	TF	APRAS	-	330 (324.6)	-	13.3	-	+6500	-	-	-	RNAV 1
NOP 1A		AFINAS	-	330 (324.0)		10.0	_	+0000		1 -	-	INNAVI
			T	1	T	T			T	1	_	I
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 ( )	Duration		' '			Ivavaius	'
010	IF TF	IBNOP	-	- 057 (050.4)	-	- 24.0	-	+FL120	-	-	-	RNAV 1
020	TF	UTVIM OKRAX	-	257 (252.1) 281 (275.6)	-	31.8 20.9	-	- +FL120	-	-	-	RNAV 1 RNAV 1
040	TF	EGRAN	+ -	281 (275.7)	-	10.2	-	+FL120 +6500	-	-	-	RNAV 1
KSIX 1A	- "	LONAN		201 (213.1)		10.2		10000				TAINAVI
	T 5 "		T		T	T 5: / 444 /	T -		T	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
	<u> </u>		-		· ' '	Buration		' '	· ' '			,
010 020	IF TF	OKSIX UNKAK	-	229 (225.0)	-	62.8	-	+FL245	-	-	-	RNAV 1 RNAV 1
030	TF	TIGIX	<u> </u>	239 (225.0)	-	18.5	-	+FL120	-	<u> </u>	-	RNAV 1
040	TF	EGRAN	+ -	240 (234.7)	-	8.2		+6500	-	<u> </u>		RNAV 1
ETAR 1A		LOIVIII		210 (201.1)	1	0.2		- 0000	1	1		1000
		Marmaint			Magnatia	Dietores (MM) /	Trum	Altitudo	Conned Limit	1	Поп	Marriantina
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	-		1 '			+FL075	· · ·			RNAV 1
020	TF	XADEB	-	015 (008.1)	-	34.9	-	+FL0/5	-	-	-	RNAV 1
030	TF	DUNVU	+-	330 (324.5)	-	23.2	-	-FL090	-	-	-	RNAV 1
040	TF	APRAS	+ -	330 (324.6)	-	13.3	-	+6500	-	-	-	RNAV 1
MAX 1A		_ /« IV/IV	1	1 550 (524.0)	1	10.0	1	1 .0000	1	1		1 111/1/1
		Mount	F1		Manna#-	Diotones (NIA) /	T	VIT. 1 -1 -	Cocad I !!		Dan	Marria - 41 -
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	-	-	- variation ( )	-	-	+FL245	- (/(/)	_	-	RNAV 1
020	TF	UTVIM	-	302 (296.0)	<del>                                     </del>	31.8	-	+FLZ40 -	-	-	-	RNAV 1
030	TF	OKRAX	+ -	281 (275.6)	-	20.9	-	+FL120	-	-	-	RNAV 1
040	TF	EGRAN	1 -	281 (275.7)	-	10.2	-	+6500	-	-	-	RNAV 1
DGAS 1			1		1	1 10.2	1	1 0000	1	1	I	1000
		Mount	FI.		Manna#-	Diotones (NIA) /	T	VIT. 1 -1 -	Cocad I !!		Dan	Novine-41-
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	· '	UDGAS		_		- Duration		+FL075	<del>  ` '</del>			RNAV 1
010	IF TF	EGRAN	-	151 (147.6)	-	95.9	-	+FL075 +6500	-	-	-	RNAV 1 RNAV 1
020 <b>//VUL 1/</b>		LEGRAIN	1 -	101 (147.0)	-	30.8	-	T +0000	-	-	-	KINAV I
			Τ	Ι	T		T -		T	1		
Serial Number	Path Descriptor	Waypoint Identifier	Fly-	Course M°(T°)	Magnetic Variation (°)	Distance (NM) /	Turn	Altitude	Speed Limit	VPA (%)	Rec Navaids	Navigation Specification
Number	Descriptor		over		variation ( )	Duration	Direction	(FT)	(KT)		ivavaiūs	
	IF	UMVUL	-	-	-	-	-	+FL240	-	-	-	RNAV 1
010									I -		-	RNAV 1
010 020 030	TF TF	XADEB DUNVU	-	331 (324.4) 330 (324.5)	-	33.2 23.5	-	- -FL090	-	-	-	RNAV 1

CHANGE: New Chart

STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

# 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

#### WAYPOINT LIST RNAV STAR RWY 10

WaypointIdentifier	Coor	dinates	WaypointIdentifier	Coordinates		
UMVUL	S 16 30 52.0	E 028 53 08.0	UNKAK	S 14 50 42.0	E 028 38 35.9	
APRAS	S 15 33 33.8	E 028 10 55.0	UTVIM	S 15 09 20.8	E 028 48 03.0	
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				
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				

### **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'.					