



# ***Khartoum FIR***

## ***Air Traffic Management Contingency Plan***

***Amendment 3 (V1.0)***

***Prepared by: Khartoum FIR Contingency Coordination Team***

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**FOREWORD**

The ICAO MID Regional Office received information on 15 April 2023 regarding the interruption of the provision of air navigation services by the Khartoum ACC (the disruption) due to the security unrest in Sudan.

This Contingency Plan comprises procedures and other arrangements to minimize the impact of this disruption and ensure the continued safety of flight operations, in accordance with the provisions of Annex 11 — *Air Traffic Services*.

Based on the Memorandum of Understanding (MoU, signed by South Sudan and Sudan Civil Aviation Authorities on 16 August 2018), the provision of air traffic services (ATS) in the airspace over South Sudan, above FL245, was assigned to Khartoum ACC, while the airspace FL245 and below is controlled by Juba Approach/Tower unit. The TMA airspace is Class C, with both Class E and G outside the TMA up to FL245.

This Plan has been developed in close coordination with all relevant stakeholders including those responsible for the adjacent FIRs, as well as international organizations and the airspace users concerned.

The Plan will be activated by the promulgation of a set of NOTAMs. Currently, Sudan requests Egypt to promulgate information on its behalf.

The implementation of this plan shall be continuously monitored by all States concerned. Each State is required to keep the Khartoum FIR Contingency Coordination Team (CCT) informed by providing suitable reports.

**RECORD OF AMENDMENTS**

<b>Amendment Number</b>	<b>Effective Date</b>	<b>Date Entered</b>	<b>Entered By</b>	<b>Paragraph / Reference</b>
1	15 August 2023	10 August 2023	Khartoum FIR CCT	Addition of operations in airspace over the territory of Sudan (paragraph 3.2 and appendix 6)
2	30 November 2023	23 November 2023	Khartoum FIR CCT	Introduction of Flight Information Services within KFOSS above FL245
3	31 July 2024	28 July 2024	Khartoum FIR CCT	North-South overflight routing in Eastern Sudan (paragraph 3.2 and appendix 6)

## **SCOPE OF WORK**

This contingency plan focuses on optimizing international traffic flow during the contingency situation resulting from the interruption of ATS provided by the Khartoum ACC. Considering the available provision of air navigation services and the availability of diversionary routing schema, operators may elect to circumnavigate the whole or parts of Khartoum FIR or use any of the contingency or diversionary routes, based on the results of safety risk assessments, using the information provided within this plan and other sources.

## **CHAPTER 1**

### **GENERAL**

#### **DEFINITION OF TERMS**

- 1.1 To avoid any misinterpretation and confusion, when the following terms are used in this plan, they have the following meanings:

***Khartoum ACC airspace:*** the airspace within the Khartoum FIR excluding that defined as South Sudan airspace.

***Khartoum FIR:*** an airspace of defined dimensions expressed in Sudan AIP including the airspace above the territory of Sudan, the airspace above the high seas (Red Sea under the responsibility of Sudan) as well as the airspace above the territory of South Sudan.

***Khartoum FIR over South Sudan above FL245 (KFOSS above FL245):*** the airspace over the territory of South Sudan above FL245.

***South Sudan airspace:*** the airspace of defined dimensions expressed in South Sudan AIP over the territory of South Sudan at FL245 and below.

#### **OBJECTIVE**

- 1.2 This Contingency Plan contains arrangements to ensure the continued safety of flight operations during the disruption. The plan has been prepared in accordance with ICAO Annex 11 — *Air Traffic Services*, Chapter 2, paragraph 2.32 and Attachment C to provide the ATS procedures, contingency route structure, and other arrangements, to be used on a temporary basis, while air traffic services are not being provided from Khartoum ACC.

#### **AFFECTED STATES AND FIRs**

- 1.3 The adjacent FIRs directly affected by this Contingency Plan are as follows:

- Chad\Njamena (FTTT)
- Democratic Republic of Congo\Kinshasa (FZZA)
- Ethiopia\Addis Ababa (HAAA)
- Egypt\Cairo (HECC)
- Kenya\Nairobi (HKNA)
- Republic of Congo\Brazzaville (FCCC)
- Saudi Arabia\Jeddah FIR (OEJD)
- Uganda\Entebbe (HUEC)

## **APPLICATION OF THE CONTINGENCY PLAN**

- 1.4 The implementation of this plan shall be continuously monitored by all relevant States. Each State is required to keep the CCT informed by providing regular reports including, but not limited to the following:
- status of hotspot areas;
  - capacity constraints;
  - status of CNS equipment and facilities;
  - status of voice communication/coordination and data exchange with adjacent FIRs;
  - changes to aeronautical publications; and
  - any development having an impact on the implementation of the plan.
- 1.5 In addition to the above, IATA is responsible for providing the CCT with the required feedback from airspace users.
- 1.6 ATS units are reminded of their obligations under Annex 11, to conduct a safety risk assessment and implement appropriate risk mitigation measures to achieve the best arrangements which will avoid hazards to civil aircraft. Operators are reminded of their obligations under Annex 6 — *Operation of Aircraft*, to conduct a safety risk assessment and take appropriate risk mitigation.

The final version of the contingency plan and its amendments will be posted on the ICAO website: <https://www.icao.int/MID/Pages/FIR/Khartoum-FIR-CP.aspx>.

- 1.7 NOTAMs listed in this document are for reference only and should not be assumed to be current.

## **OVERFLIGHT PERMISSION**

### *Territory of Sudan*

- 1.8 A restricted area, HSR5, is established over the territory of Sudan (NOTAM A0015/24 refers). Aircraft may only enter restricted area HSR5 using the contingency routes described herein, or for humanitarian and evacuation flights. All flights which are planned to enter HSR5 require prior permission (PPR) as per Sudan AIP GEN 1.2.

### *Territory of South Sudan*

- 1.9 Rules governing entry to, transit over and departure from the territory of South Sudan are contained in South Sudan AIP GEN 1.2.

## **INTERCEPTION OF CIVIL AIRCRAFT**

- 1.10 Pilots need to continuously guard the IATA In-flight Broadcast Procedure (IFBP) AFI Region designated frequency 126.9 MHz, the emergency frequency 121.5 MHz and the relevant ATS unit frequency required at **Appendix 7**, and must keep their transponder operational during flight. Transponders should be set on a discrete code assigned by ATC or, if code not assigned, select code 2000.

## **CHAPTER 2**



**DIVERSIONARY ROUTE ARRANGEMENTS**

**NORTH-SOUTH ROUTES TO AVOID KHARTOUM FIR**

- 2.1 While HSR5 is established, the usual traffic exchange points between Cairo and Khartoum FIRs of waypoint: NUBAR, ENABU, ATMUL and SISID cannot be used for overflying traffic (transit). ALEBA remains available as per paragraph 3.2.4 of this plan. For circumnavigation of the Khartoum FIR, the diversionary route arrangement in **Appendix 4** utilizes the available routes within Jeddah, Asmara, and Addis Ababa FIRs as follows:

- ***Southbound Traffic from Cairo FIR:***

Exit Cairo FIR via DEDLI M999 JDW G650 RASKA.

- ***Northbound traffic from Asmara FIR:***

Exit Asmara FIR via RASKA T513 EGMEG G660 JDW M686 GIBAL or PASAM.

## CHAPTER 3

## CONTINGENCY ROUTES AND PROCEDURES

## 3.1 OPERATIONS WITHIN KHARTOUM FIR OVER SOUTH SUDAN (KFOSS) ABOVE FL245

3.1.1 The following two unidirectional contingency routes, shown graphically in **Appendix 5**, are available for en-route traffic:

Contingency route designator	Entry FIR	Route and entry and exit waypoints	Exit FIR	Distance	Minimum flight level	Navigation specification	Airspace classification	Flight level allocation	Direction	Flight planning
Contingency Route 1	Addis Ababa	BRO DCT KAFIA	N'Djamena	658 NM	FL300	RNAV5	Class G	Even flight levels	Westbound only	<i>Departure traffic from Addis Ababa FIR airports:</i> Relevant SID GUDER T139/UT139 BRO DCT KAFIA UA410, or DCT IRAGA  <i>Overflights:</i> KONET M308/UM308 or BOPSA UL432 or TORBA B535/UB535 GWZ T139/UT139 BRO DCT KAFIA UA410, or DCT IRAGA
Contingency Route 2	Brazzaville	ASKON L558 DASTU	Addis Ababa	410 NM	FL310			Odd flight levels	Eastbound only	<i>Arrival traffic to Addis Ababa FIR airports:</i> UT139/UT419/DCT ASKON L558 DASTU T139/UT139 GUDER relevant STAR  <i>Overflight:</i> UT139/UT419/DCT ASKON L558 DASTU T139/UT139 GWZ M308/UM308 KONET or UL432 BOPSA or B535/UB535 TORBA

3.1.2 Within KFOSS above FL245, flight information and alerting services are available H24 from Juba Information on 127.900 MHz.

## **ATS OPERATIONAL PROCEDURES**

### Issuing NOTAM

- 3.1.3 The Plan will be activated by promulgation via NOTAM(s) under the authority of the Sudan Civil Aviation Authority, with the agreement of the South Sudan Civil Aviation Authority, in coordination with the adjacent States.

### Application of separation

- 3.1.4 Longitudinal separation: A minimum of twenty (20) minutes constant or increasing separation shall be applied between aircraft operating on the same track and same level on contingency routes in KFOSS above FL245. The transferring ACC is responsible for ensuring that this separation will be maintained through KFOSS above FL245, based on pilot estimates over entry and exit points.

*Note: based on Doc 4444, PANS-ATM, 5.4.2.1.1, longitudinal separation between aircraft following the same track may be maintained by application of speed control, including Mach number technique.*

### Airspace Classification

- 3.1.5 During the application of this contingency arrangement, all airspace within KFOSS above FL245 is **Class G**.

### Position Reporting

- 3.1.6 In addition to routine position reports (PANS-ATM, (Doc 4444, 4.11.2) on the Juba Information frequency 127.9 MHz, pilots shall apply the IATA In-flight Broadcast Procedure (IFBP) AFI Region while operating within KFOSS above FL245 on the designated frequency 126.9 MHz, and maintain a listening watch on 121.5 MHz. Aircraft operating at FL245 and below will transmit position reports to Juba APP on 123.9 MHz.

*Note. – IATA IFBP can be found at: [IATA-AFI-IFBP](#)*

### Procedures for domestic South Sudan operations and flights to/from airports inside South Sudan.

- 3.1.7 Domestic operations within South Sudan and international flights to and from airports located inside South Sudan airspace shall follow instructions from the appropriate ATS unit and remain below FL245, with the following exception:
- aircraft flight planned to Juba aerodrome via Entebbe FIR and aircraft departing Juba airport via Entebbe FIR, shall follow instructions/clearances issued by Juba Approach or Entebbe ACC.

Overflying traffic

- 3.1.8 For traffic transiting KFOSS above FL245, on the contingency routes, the last ACC sector controlling aircraft prior to entry into KFOSS above FL245 is required to take the following actions:
- a) a minimum of twenty (20) minute longitudinal separation constant or increasing shall be applied between aircraft on same track and same level;
  - b) inform the pilot prior to entry of KFOSS above FL245 that the IATA IFBP and airspace Class G prevails over South Sudan above FL245 and that flight information service is available from Juba Information on 127.9 MHz;
  - c) pass to Juba Information, the pilot estimated time over the entry point of the airspace over South Sudan, assigned flight level, speed restrictions (if any) and SSR code;
  - d) instruct the pilots to maintain the last assigned flight level and speed while overflying KFOSS above FL245, except in emergency; and
  - e) avoid changing flight level of aircraft within 10 minutes flight time of entering KFOSS above FL245.
- 3.1.9 For traffic transiting KFOSS above FL245, on the contingency routes, Juba Information is required to take the following actions:
- a) pass to Addis Ababa ACC or Brazzaville ACC, as appropriate, the pilot estimated time over the exit point of the airspace over South Sudan, assigned flight level, speed restrictions (if any) and SSR code, and any deviation from the contingency route (if any); and
  - b) provide the pilots with the Addis Ababa ACC or Brazzaville ACC frequency, as appropriate, at least 10 minutes prior to entering their airspace.

**PILOTS AND OPERATORS PROCEDURES**

Filing of flight plans

- 3.1.10 Flight planning requirements in KFOSS above FL245 are to be followed as per normal flight planning requirements contained in the Sudan Aeronautical Information Publication (AIP).
- 3.1.11 For flight planning purposes, international departures, arrivals and domestic flights, operating from/to airports located within South Sudan airspace shall plan levels FL240 or below, except those international operations where departure or arrival aerodrome is Juba, and flight plan route is via Entebbe FIR.

Pilot operating procedures

- 3.1.12 The variable nature of operations during a contingency situation mean that pilots must maintain a high level of alertness while operating in any portion of KFOSS above FL245 and must be prepared to take appropriate action to ensure the safety of their flight.
- 3.1.13 Aircraft operating in KFOSS above FL245 shall comply with the following procedures:

- a) adhere to contingency route scheme in paragraph 3.1.1 and shown at **Appendix 5**;
- b) apply Strategic Lateral Offset Procedures (SLOP) (PANS-ATM, 16.5);
- c) Airborne Collision Avoidance System (ACAS) meets RVSM requirements and is operational;
- d) should have ADS-B operational;
- e) navigation and anti-collision lights on;
- f) maintain the assigned flight level and, if applicable, speed, during entire flight within KFOSS above FL245 except in cases of emergency;
- g) the last assigned SSR Code shall be maintained or, if no SSR Code has been assigned, the SSR Code 2000 shall be set;
- h) aircraft are required to reach the flight level last assigned by the transferring ACC at least 10 minutes before entering KFOSS above FL245, or as otherwise instructed by the transferring ACC;
- i) pilots are required to include in their last position report prior to entering the KFOSS above FL245, the estimated time over the entry point and exit point of KFOSS above FL245;
- j) pilot must contact the ensuing ACC at least 10 minutes prior to entering their airspace;
- k) in addition to routine position reports (PANS-ATM, 4.11.2) on the Juba Information frequency 127.9 MHz, pilots shall follow the IATA In-flight Broadcast Procedure (IFBP) AFI Region on the designated frequency 126.9 MHz and maintain a listening watch on 121.5 MHz;
- l) should an aircraft need to make an emergency descent, this should be performed in accordance with the PANS-ATM, 15.1.4; and
- m) contact with Juba APP should only be initiated in the event of an emergency, and descent below FL245 becomes necessary.

3.1.14 If the aircraft is required to deviate from track to avoid adverse meteorological conditions over KFOSS above FL245, until such time as an ATC clearance is received, the pilot shall take the following actions:

- a) if possible, deviate away from an organized track or route system;
- b) inform Juba Information on 127.9 MHz;
- c) watch for conflicting traffic both visually and by reference to ACAS;
- d) keep all aircraft exterior lights on;
- e) for deviations of less than 10 NM remain at the level assigned by ATC;
- f) for deviations greater than 10 NM, when the aircraft is approximately 10 NM from track, initiate a level change in accordance with table below; and
- g) when returning to track, be at assigned flight level when the aircraft is within approximately 10 NM of the centre line.

<b>Route centre line track</b>	<b>Deviations &gt; 19 km (10 NM)</b>	<b>Level change</b>
EAST 000° – 179° magnetic	LEFT RIGHT	DESCEND 90 m (300 ft) CLIMB 90 m (300 ft)
WEST 180° – 359° magnetic	LEFT RIGHT	CLIMB 90 m (300 ft) DESCEND 90 m (300 ft)

Collision avoidance

3.1.15 If a pilot determines that immediate action is necessary to avoid an imminent collision risk, and this cannot be achieved in accordance with right-of-way provisions, the pilot should:

- a) unless an alternative maneuver appears more appropriate, climb or descent 500ft;
- b) display all available aircraft lighting which would improve visual detection;
- c) as soon as possible, reply to the broadcast advising action being taken;
- d) notify the action taken on the Juba Information frequency 127.9 MHz; and
- e) as soon as the situation has been rectified, resume last assigned flight level, notifying the action on the Juba Information frequency 127.9 MHz.

### 3.2 OPERATIONS IN AIRSPACE OVER THE TERRITORY OF SUDAN

3.2.1 A restricted area, HSR5, is established over the territory of Sudan (NOTAM A0015/24 refers). Aircraft may only enter restricted area HSR5 using the contingency routes described herein, or for humanitarian and evacuation flights. All flights which are planned to enter HSR5 require prior permission (PPR) as per Sudan AIP GEN 1.2.

Identification, Name and lateral limits	Upper Limits ----- Lower limits	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)	REMARKS
<b>HSR5</b>  The territory of Sudan within the Khartoum FIR	UNL ----- GND	H24 Contingency operations. Commercial operations may only enter restricted area HSR5 using contingency routes 3, 4,5 and 6 shown at <b>Appendix 6</b> or for humanitarian and evacuation flights.	Prior permission required.

3.2.2 The following contingency route, shown graphically in **Appendix 6**, is available for traffic operating to or from Port Sudan (HSPN) through the Cairo FIR:

Contingency route designator	Route	Flight level	Airspace classification	Direction	Flight planning
Contingency Route 3	HSPN – ALEBA (Cairo FIR)	Northbound: FL300 over ALEBA Southbound: FL310 over ALEBA	Class F	Bi-directional	<i>Outbound from HSPN</i> : Relevant SID PEKAB P751 ALEBA. <i>Inbound to HSPN</i> : ALEBA PEKAB Relevant STAR HSPN

## KHARTOUM FIR CONTINGENCY PLAN

3.2.3 The following two unidirectional contingency routes, shown graphically in **Appendix 6**, are available for traffic operating to or from Port Sudan (HSPN) through the Jeddah FIR:

Contingency route designator	Entry to Khartoum FIR from/Departure aerodrome	Route	Arrival aerodrome/Exit Khartoum FIR	Airspace classification	Available Flight levels	Direction
Contingency Route 4	Jeddah FIR OEJD	KAROX L311 MAHDI Q563 Relevant STAR	Port Sudan HSPN	Class F	EVEN levels between FL160 and FL240 over KAROX	Westbound only
Contingency Route 5	Port Sudan HSPN	Relevant SID M562 BOGUM M562 MIPOL	Jeddah FIR OEJD		ODD levels between FL170 and FL230 over MIPOL	Eastbound only

3.2.4 The following bi-directional contingency route, shown graphically in **Appendix 6**, is available for traffic overflying the territory of Sudan:

Contingency route designator	Entry FIR	Route and entry and exit waypoints	Exit FIR	Minimum flight level	Flight level allocation	Direction	Navigation specification	Airspace classification	Flight planning
Contingency Route 6	Addis Ababa HAAA	ALRAP DCT KSL DCT PSD P751 ALEBA	Cairo HECC	FL320	Even flight levels	Northbound	RNAV5	Class F	AMUDO ALRAP DCT KSL DCT PSD P751 ALEBA UMINI
	Cairo HECC	ALEBA P751 PSD DCT KSL DCT ALRAP	Addis Ababa HAAA	FL330	Odd flight levels	Southbound			UMINI ALEBA P751 PSD DCT KSL DCT ALRAP AMUDO

*Note.— overflights operating on Contingency Route 6 are expected to remain level rather than climb or descend at KSL and PSD in accordance with the tables of cruising levels shown in Appendix 3 to Annex 2 – Rules of the Air.*

## ATS OPERATIONAL PROCEDURES

### Issuing NOTAM

- 3.2.5 The Plan will be activated by promulgation via NOTAM(s) under the authority of the Sudan Civil Aviation Authority, in coordination with the adjacent States.

### Application of separation

- 3.2.6 Longitudinal separation: A minimum of ten (10) minutes constant or increasing separation shall be applied between aircraft operating on the same track and same level.

*Note: based on Doc 4444, PANS-ATM, 5.4.2.1.1, longitudinal separation between aircraft following the same track may be maintained by application of speed control, including Mach number technique.*

### Airspace Classification

- 3.2.7 During the application of this contingency arrangement, all airspace within restricted area HSR5, excluding the Port Sudan CTR and TMA, is **Class F**.

### Position Reporting

- 3.2.8 In addition to routine position reports (PANS-ATM, (Doc 4444, 4.11.2) on the Port Sudan frequency 127.5 MHz, pilots shall apply the IATA In-flight Broadcast Procedure (IFBP) AFI Region while operating within HSR5 on the designated frequency 126.9 MHz, and maintain a listening watch on 121.5 MHz.

*Note. – IATA IFBP can be found at: [IATA-AFI-IFBP](#)*

### Overflying traffic

- 3.2.9 For traffic overflying HSR5 on the contingency routes, the last ACC sector controlling aircraft prior to entry into HSR5 is required to take the following actions:
- a) a minimum of ten (10) minute longitudinal separation constant or increasing shall be applied between aircraft on same track and same level;
  - b) inform the pilot prior to entry of HSR5 that the IATA IFBP and airspace Class F prevails within HSR5 and that advisory service is available from Port Sudan on 127.5 MHz;
  - c) pass to Port Sudan, the pilot estimated time over the entry point of HSR5, assigned flight level, speed restrictions (if any) and SSR code;
  - d) instruct the pilots to maintain the last assigned flight level and speed while overflying HSR5, except in emergency; and
  - e) avoid changing flight level of aircraft within 10 minutes flight time of entering HSR5.

*Note.— overflights operating on Contingency Route 6 are expected to remain level rather than climb or descend at KSL and PSD in accordance with the tables of cruising levels shown in Appendix 3 to Annex 2 – Rules of the Air*



3.2.10 For traffic transiting HSR5 on the contingency routes, Port Sudan is required to take the following actions:

- a) pass to Addis Ababa ACC or Cairo ACC, as appropriate, the pilot estimated time over the exit point of HSR5, assigned flight level, speed restrictions (if any) and SSR code, and any deviation from the contingency route (if any); and
- b) provide the pilots with the Addis Ababa ACC or Cairo ACC frequency, as appropriate, at least 10 minutes prior to entering their airspace.

## **PILOTS AND OPERATORS PROCEDURES**

### *Filing of flight plans*

3.2.11 Flight planning requirements in the restricted area are to be followed as per normal flight planning requirements contained in the Sudan AIP.

3.2.12 For flight planning purposes, flights operating from Port Sudan to Cairo FIR shall plan level FL300 at ALEBA. Flights operating from Cairo FIR to Port Sudan shall plan level FL310 at ALEBA. Flights operating from Jeddah FIR to Port Sudan shall plan even levels between FL160 and FL240 (inclusive) at KAROX. Flights operating from Port Sudan to Jeddah FIR shall plan odd levels between FL170 and FL230 (inclusive) at MIPOL. Overflight traffic from Addis Ababa FIR to Cairo FIR shall plan even levels FL320 and above. Overflight traffic from Cairo FIR to Addis Ababa FIR shall plan odd levels FL330 and above.

### *Pilot operating procedures*

3.2.13 The variable nature of operations during a contingency situation mean that pilots must maintain a high level of alertness while operating in any portion of restricted area HSR5 and must be prepared to take appropriate action to ensure the safety of their flight.

3.2.14 Aircraft operating in restricted area HSR5 shall comply with the following procedures:

- a) adhere to the contingency route scheme in paragraph 3.2.2, 3.2.3 or 3.2.4 and shown at **Appendix 6**, as appropriate;
- b) apply Strategic Lateral Offset Procedures (SLOP) (PANS-ATM, 16.5);
- c) Airborne Collision Avoidance System (ACAS) meets RVSM requirements and is operational;
- d) should have ADS-B operational;
- e) navigation and anti-collision lights on;
- f) the last assigned SSR Code shall be maintained or, if no SSR Code has been assigned, the SSR Code 2000 shall be set;
- g) aircraft are required to reach the flight level last assigned by the transferring ACC at least 10 minutes before ALEBA and /or ALRAP, as appropriate, or as otherwise instructed by the transferring ACC;
- h) pilots must contact the ensuing ACC at least 10 minutes prior to entering their airspace;

- i) in addition to routine position reports (PANS-ATM, 4.11.2) on the Khartoum frequency 127.5 MHz, pilots shall follow the IATA In-flight Broadcast Procedure (IFBP) AFI Region on the designated frequency 126.9 MHz and maintain a listening watch on 121.5 MHz;
- j) should an aircraft need to make an emergency descent, this should be performed in accordance with the PANS-ATM, 15.1.4; and
- k) aircraft operating on contingency route 6 shall maintain the assigned flight level and, if applicable, speed, during entire flight within HSR5 except in cases of emergency.

3.2.15 CNS and ATS available at Port Sudan:

a) NAVAIDs

ID	Station Name	Aid	Purpose	Operability status
PIS	Port Sudan	ILS/DME RWY35	APP	
PSD	Port Sudan	VOR/DME	AE	

b) Communications

Type	Call sign and operational hours	Details
VHF	Port Sudan Tower H24	128.1
VHF	Port Sudan Approach H24	128.1
VHF	Khartoum EAST SECTOR Advisory H24	127.5
Hotline		
Land line	+249311829899 +249311820045	

c) Surveillance

Surveillance Radar (Mode S) is installed and in operation in Port Sudan, the coverage is 250NM from Port Sudan aerodrome.

d) ATS airspaces:

Name Lateral Limits Vertical limits Class of Airspace	Unit providing service	Call sign Languages Area and conditions of use Hours of service	Frequency/purpose	Remarks
Port Sudan TMA  Circle of 45 NM of radius with center at VOR/DME/PORT SUDAN (19°24'04"N, 037°14'30"E)  <u>FL 195</u> 3500FT	Port Sudan Approach	Port Sudan Approach  English  H24	128.1MHz	

**KHARTOUM FIR CONTINGENCY PLAN**

<b>CLASS B</b>				
<b>Khartoum FIR</b>  <u>FL 285</u> <b>GND</b>  <b>CLASS F</b>  <u>UNL</u> <b>FL285</b>  <b>CLASS F</b>	<b>Port Sudan Approach</b>	<b>Port Sudan Approach</b>  <b>English</b>  1. Route P751 ALEBA PSD 2. Route L311/Q563 (KAROX HSPN) 3. Route M562 (HSPN MIPOL) 4. Route ALEBA P751 PSD KSL ALRAP  <b>H24</b>	<b>127.5 MHz</b>	

e) Aerodrome services:

Aerodrome Geographical and administrative data are available in Sudan AIP AD 2 HSPN. Due to limited parking facilities, pre-coordination with Sudan CAA and airport operator is required.

## APPENDIX 1

## CONTACT DETAILS OF ADJACENT FIRs

	NAME	TITLE	TEL NO.	E-MAIL	REMARK
Addis Ababa (HAAA)-Ethiopia					
1	Mr. Yohannes Abera	Director ATM, ECAA	M: +251 912601499 Tel: +251911250149	<a href="mailto:yohannes_abera@yahoo.com">yohannes_abera@yahoo.com</a> <a href="mailto:yohannesa@ecaa.gov.et">yohannesa@ecaa.gov.et</a>	ESAF
Asmara (HHAA)-Eritrea					
2					ESAF
Brazzaville (FCCC)					
3	Mr. TCHISSAMBOU M'BOUNDOU JOACHIM	ASECNA DG REPRESENTATIV E IN CONGO	M/W: +235 63262828	TCHISSAMBOUM'BOUNDOUJo a@asecna.org	WACAF
4	BALOUNDA Gildas Guennole	ACC Manager, Ndjamena	M/W: +242 05 377 9562	<a href="mailto:BALOUNDGil@asecna.org">BALOUNDGil@asecna.org</a>	WACAF
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**KHARTOUM FIR CONTINGENCY PLAN**

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22					MID

## APPENDIX 2

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**KHARTOUM FIR CONTINGENCY PLAN**

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**KHARTOUM FIR CONTINGENCY PLAN**

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## APPENDIX 3

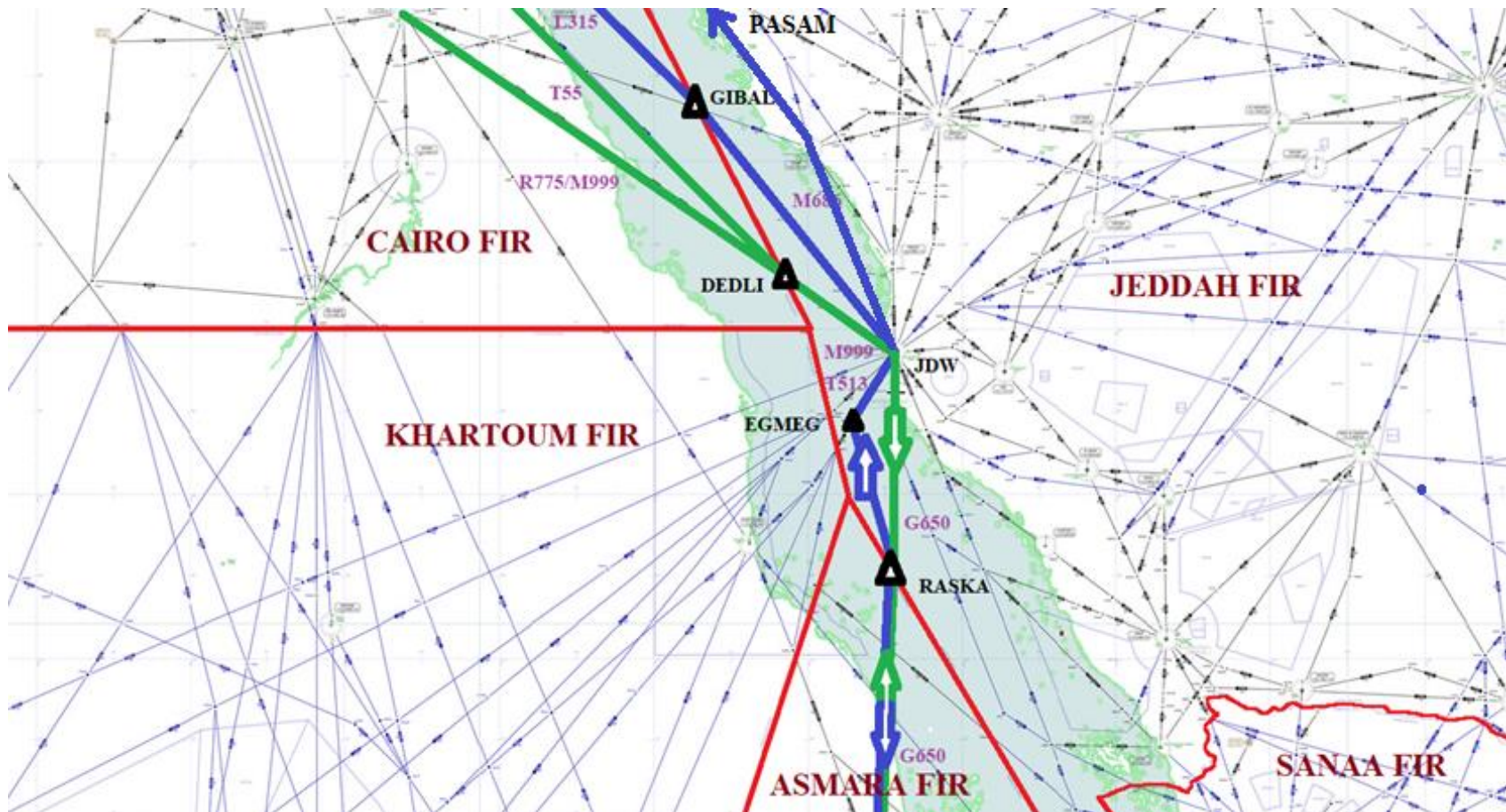
## CONTACT DETAILS OF SUDAN COORDINATING GROUP

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APPENDIX 4

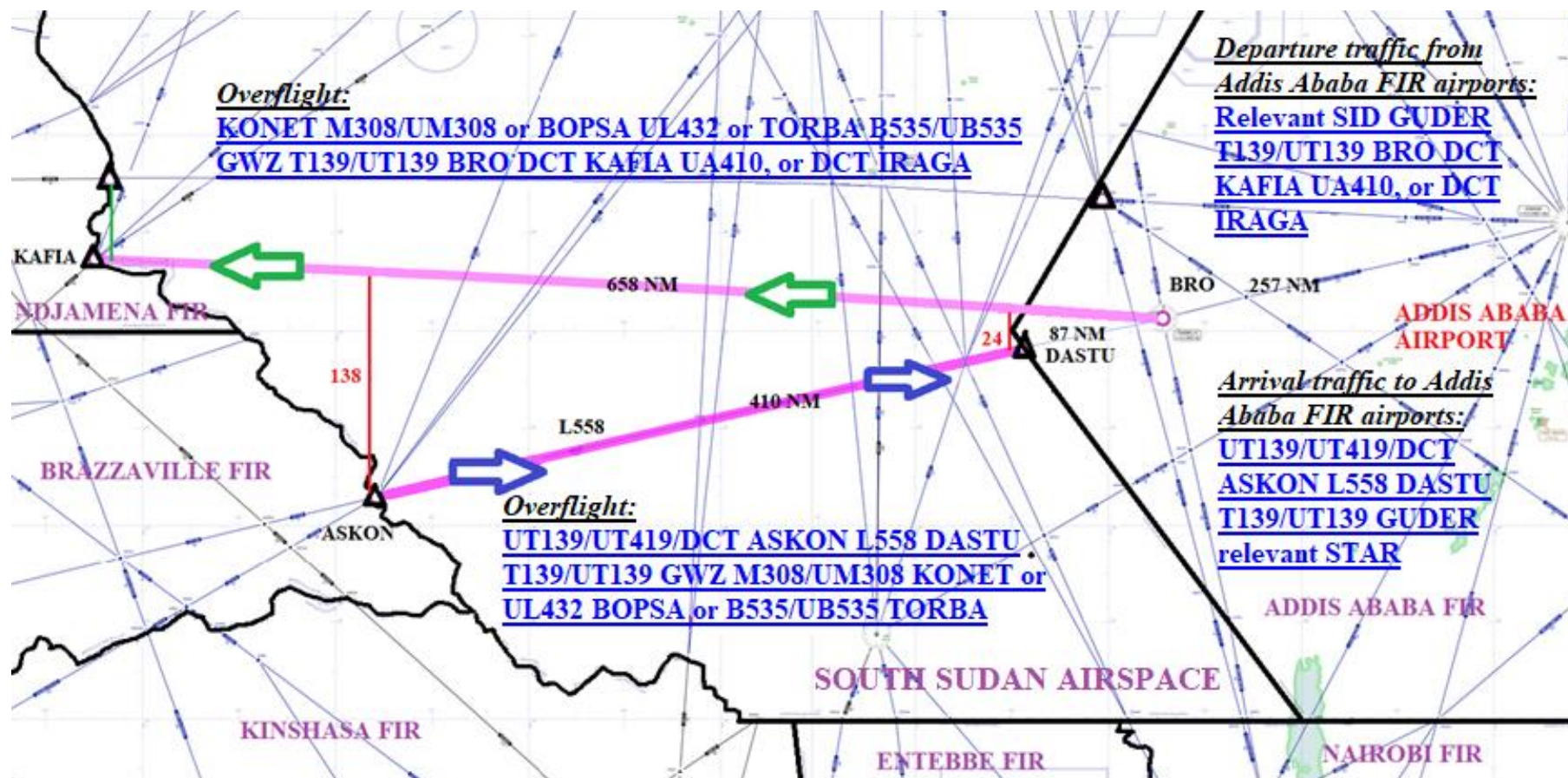
DIVERSIONARY ROUTE ARRANGEMENT CHART

Diversionary North-South arrangement to circumnavigate Khartoum FIR.



APPENDIX 5

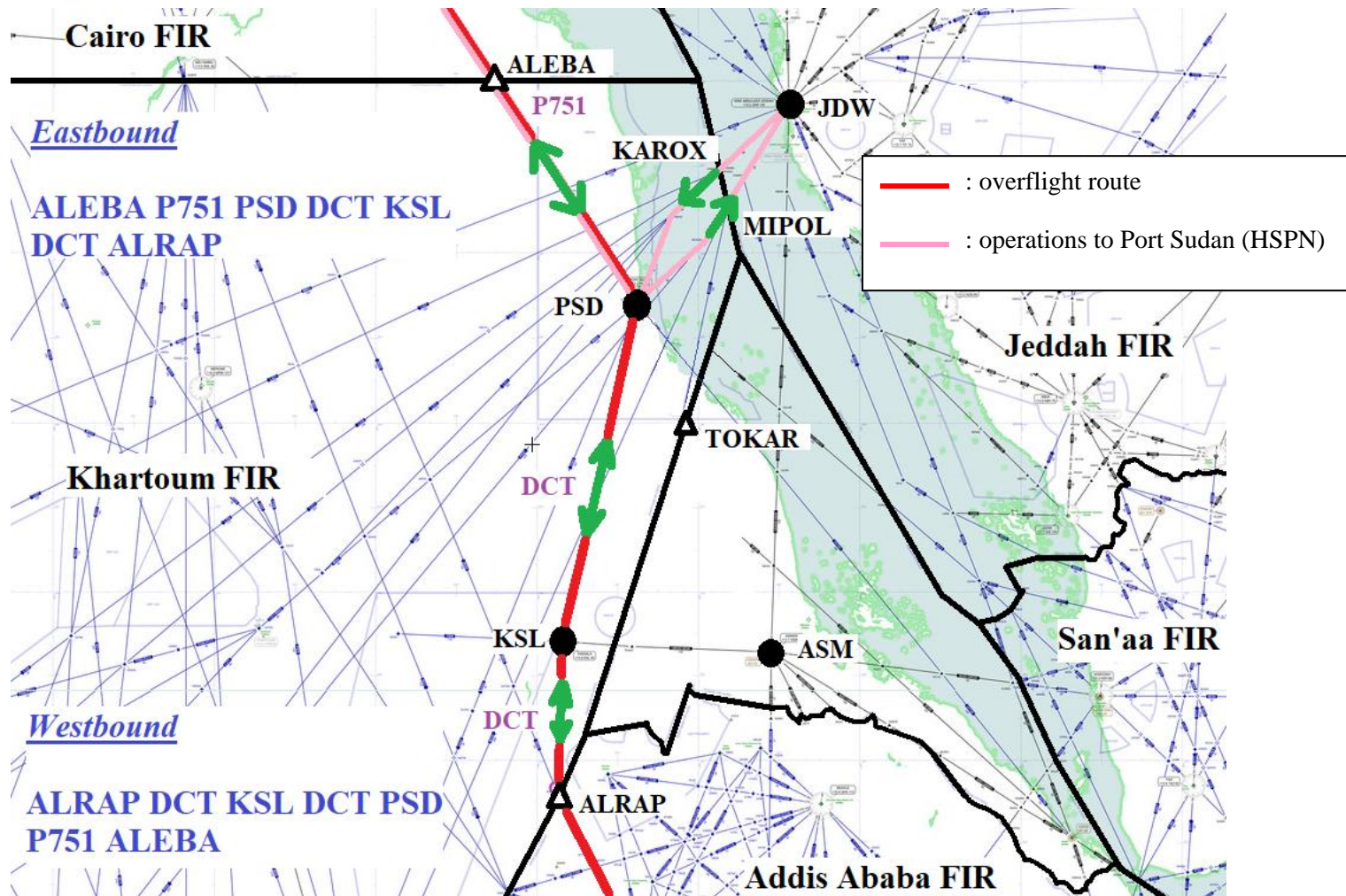
EAST-WEST ARRANGEMENT THROUGH KFOSS ABOVE FL245





APPENDIX 6

OPERATIONS IN AIRSPACE OVER THE TERRITORY OF SUDAN



**APPENDIX 7**

**ATS UNIT FREQUENCIES**

<b>LIST OF AVAILABLE FREQUENCIES IN ORDER</b>						
<b>ATS UNIT</b>		<b>RTF CALL SIGN</b>	<b>Operational Hours</b>	<b>FREQUENCY</b>		<b>Tel NO</b>
Relevant Sector	Khartoum ACC	Information	0	Main		
				Stand by		
				Emergency		
	Port Sudan	TWR and APP	H24	Main	128.1 MHz	
				Stand by	118.1 MHz	
				Emergency	121.5 MHz	
		Khartoum Advisory	H24	Main	127.5 MHz	
				Stand by	125.4 MHz	
Adjacent FIRs relevant sector	Addis Ababa ACC		H24	Main	125.100 MHz	
				Stand by	125.200 MHz 11300 KHz 5517 KHz	
				Emergency		
	Brazzaville ACC			Main	121.100 MHz	INMARSAT – 467602 & 467603
				Stand by	127.100 MHz 128.900 MHz 13294 Khz 5493Khz	
				Alternate	CPDLC: FCCC for FANS equipped aircraft	
	Cairo ACC	Cairo	24 H	Emergency		
				Main	129.4 MHz	
				Stand by	130.9 MHz 134.500 MHz 124.575 MHz	
	Entebbe ACC			Emergency	121.5 MHz HF 11300	
				Main	128.500 Mhz	
				Stand by	11300 KHz	(+256) 414 320907 (+256) 312 800 890

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				Emergency	121.500 Mhz	(+256) 312 352541
	Jeddah ACC	Jeddah Upper West	H24	Main	125.45 MHz	(+966) 126855006
				Emergency	121.5 Mhz	(+966) 126855007
	Kinshasa ACC			Main	126.1Mhz	
				Stand by	8903 Khz, 13294 Khz 5493 Khz	
				Emergency		
	Nairobi ACC		H24	Main	121.300 Mhz	
				Stand by		
				Emergency	121.500 Mhz / 11300 Khz	
				Alternate	CPDLC: HKNA for FANS equipped aircraft	
	Ndamena ACC		H24	Main	128.100 MHz	INMARSAT – 467001 & 467002
				Stand by	8873 Khz, 8903Khz, 13294Khz 2878 Khz	
				Emergency	120.500 MHz	
				Alternate	CPDLC: FTTT for FANS equipped aircraft	
				Satellite	SATCOM 467003/467004	
	Other ATS Unit Within South Sudan airspace	Juba APP		Main	123.900 MHz	
				Stand by	118.400 MHz	
				Emergency	121.500 MHz	
	Juba Information	Juba Information	H24	Main	127.900 Mhz	

## APPENDIX 8

## CONTINGENCY PLAN AMENDMENT 3 IMPLEMENTATION CHECKLIST

Row	Task	Status	Remark
1.	Development of Contingency Plan.	Completed	
2.	Contingency plan reviewed and agreed by CCT.	Completed	
3.	Safety risk assessments by ANSPs concerned completed.	Sudan: Completed Addis: Completed 28 July Cairo: Completed 28 July	
4.	Date and time of implementation agreed.	Agreed	Target date <b>31 July 2024 – 0400 UTC</b>
5.	Communications between Addis Ababa and Port Sudan established.	Established	
6.	Communications between Cairo and Port Sudan established.	Established	
7.	Letters of Procedure (LoPs) between Addis Ababa and Port Sudan established and signed off.	Completed 28 July	
8.	Letters of Procedure (LoPs) between Cairo and Port Sudan established and signed off.	Completed 28 July	Estimate required 15 minutes prior to ALEBA on entering Cairo
9.	NOTAM(s) promulgated, with contingency plan activation date/time incorporated, as well as suitable information and procedures to be followed	Issued 29 July (A0015/24)	Operators require minimum 48 hours before effective date to complete safety risk assessments.
10.	ATCOs in the relevant ACCs trained and able to accommodate traffic based on contingency plan (prior to date promulgated in the above mentioned NOTAM)	Sudan: Controllers available Addis: Completed 28 July Cairo: Completed 28 July	
11.	Flight crew subject to operations through HSR5 are briefed to handle operational requirements based on contingency plan. Operators to have completed safety risk assessments, and updated Part Cs.		Can only be commenced once activation NOTAMs have been promulgated.
12.	Go - no go decision	28 July 2024	