

## **Appendix- F**

# **ATM CONTINGENCY PLAN FOR SOUTH ATLANTIC OCEANIC FIRs**

## INDEX

| Section | Page     | Title  |
|---------|----------|--|
| 1       | 3        | Objective  |
| 2       | 3        | Air Traffic Management                             |
| 3       | 3        | Separation   |
| 4       | 3        | Level Restrictions                                 |
| 5       | 3        | Other Measures                                     |
| 6       | 4        | Transition to Contingency Scheme                   |
| 7       | 4        | Transfer of control                                |
| 8       | 4        | Pilot procedures                                   |
| 9       | 4        | Over flight Approval                               |
| 10      | 5        | Contingency Unit                                   |
| 11      | 10       | ATS Contingency Plan - South Atlantic Oceanic FIRS |
| 12      | 10       | Basic Principles                                   |
| 13      | 11 – 13- | System of Contingency ATS Routes                   |
| 14      | 13       | Procedures to be followed by ATS Units             |
| 15      | 14       | Procedures to be followed by aircraft.             |

| Appendix | Title  |
|----------|--|
| A        | NOTAM action   |
| B        | IATA In-flight broadcast procedure (IFBP – AFI Region) |
| C        | Oceanic contingency routes                             |
| D        | Continental contingency routes.                        |
|          |  |
|          |  |
|          |  |
|          |  |
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# ATM CONTINGENCY PLAN FOR SOUTH ATLANTIC OCEANIC FIRS

## 1. OBJECTIVE

1.1 This contingency plan contains arrangements to ensure the continued safety of air navigation in the event of partially or total disruption of air traffic services (ATS) within the South Atlantic Oceanic Flight Information Regions and is related to ICAO Annex 11- *Air Traffic Services* Chapter 2, paragraph 2, 28. This contingency plan contains arrangements to ensure the continuation of interim air traffic flow through the South Atlantic Oceanic Flight Information Regions in the event of disruptions of air traffic services and related supporting services within the designated Flight Information Regions.

### 1.2 Area of Application

These contingency procedures are for the application within the SAT FIRs Regions:

BRAZIL-Brasilia, Recife, Atlantico

SPAIN

CAPE VERDE

ROBERTS FIR

SOUTH AFRICA

## 2. AIR TRAFFIC MANAGEMENT

### ATS Responsibilities

2.1 Tactical ATC considerations during periods of overloading may require re-assignment of routes or portions thereof.

2.2 In the event that Air Traffic Services cannot be provided within the South Atlantic Oceanic Flight Information Regions, the respective CAA/Authority shall publish a NOTAM (See Appendix A) indicating the following:

- a. The time and date of the beginning, **and if available, the ending** of the contingency measures.
- b. Airspace available for overflying traffic and airspace to be avoided.
- c. Details of facilities and services available and/or not available and any limits on ATS provision including an expected date of restoration of service.
- d. Information on the provision of alternate services.
- e. ATS Contingency routes.
- f. Procedures to be followed by pilots.
- g. Any other details with respect to the distribution and actions being taken.

## 3. SEPARATION

**The contingency longitudinal separation minima is 20 minutes and where applicable MACH number technique (MNT) should be applied.**

After the contingency airspace is flown, the adjacent ACC may resume normal separations minima as per agreed LOP.

## 4. LEVEL RESTRICTIONS

Where possible, aircraft on long-haul international flights shall be given priority with respect to cruising levels.

## 5. OTHER MEASURES

Other measures related to the closure of airspace and the implementation of contingency plans within the South Atlantic Oceanic Flight Information Regions is as follows:

- a. Suspension of all VFR operations;
- b. Delay and/or suspension of all general aviation IFR operations; and
- c. Delay and/or suspension of commercial IFR operations.

## **6. TRANSITION TO CONTINGENCY SCHEME**

During times of uncertainty when airspace closures seem possible, aircraft operations should be prepared for a possible change in routing while en-route.

In the event of airspace closure that has not been promulgated, ATC should, if possible, broadcast to all traffic what airspace has been closed and to standby for further instructions.

**Note: South Atlantic Oceanic Flight Information Regions should recognise that when closure of airspace and/or airports is promulgated, individual airlines might have different company requirements as to their alternative routings. ATC should be alert to respond to any requests by aircraft and react commensurate with safety.**

### **Beginning of the contingency situation**

When a specific ACC of the SAT FIRs starts a contingency situation, will proceed as follows:

- a) Will inform, by its entire possible and quickest means, to its concerned ACC's about its contingency situation, specifying that the general contingency procedures of the SAT FIRs and the specific contingency procedures reflected in the contingency annex to its LOA's are in force
- b) Will inform to its collateral ACC's about the real situation of the air traffic under its responsibility, as well as the information about the estimated traffic at the moment that the contingency situation started.

## **7. TRANSFER OF CONTROL AND COORDINATION**

Transfer of control and communications shall normally coincide with the transfer of control point. The transfer of control point is the Common FIR Boundary unless otherwise coordinated.

## **8. PILOT PROCEDURES - INTERCEPT BY MILITARY AIRCRAFT**

Pilots need to be aware that in light of current international circumstances, a contingency routing requiring aircraft to operate off of normal traffic flows, could result in an intercept by military aircraft. Aircraft operators must therefore be familiar with international intercept procedures contained in ICAO Annex 2- Rules of the Air Paragraph 3.8 and Appendix 2, Sections 2 and 3.

Pilots need to continuously listen out on the VHF emergency frequency 121.5MHz and should operate their transponders at all times during flight, regardless of whether the aircraft is within or outside airspace where secondary surveillance radar (SSR) is used for ATS purposes. Transponders should be set on a discreet code assigned by ATC or select code **#2000** if ATC has not assigned a code.

If an aircraft is intercepted by another aircraft, the pilot shall immediately:

- a. Follow the instructions given by the intercepting aircraft, interpreting and responding to visual signals in accordance with international procedures;
- b. Notify, if possible, the appropriate ATS unit;
- c. Attempt to establish radio communication with the intercepting aircraft by making a general call on the emergency frequency 121.5MHz and 243 MHz if equipped; and
- d. Set transponder code to 7700, unless otherwise instructed by the appropriate ATS unit.

If instructions are received by radio from any source that conflict with those given by the intercepting aircraft, the intercepted aircraft, shall request immediate clarification while continuing to comply with the instructions given by the intercepting aircraft.

## 9. OVERFLIGHT APPROVAL

Aircraft operators should obtain over flight approval from States/Territories/International Organisations for flights operating through their jurisdiction of airspace, where required. In a contingency situation, flights may be re-routed at short notice and it may not be possible for operators to give the required advanced notice in a timely manner to obtain approval.

## 10. CONTINGENCY UNIT

- 10.1 The national contingency units assigned with the responsibility of monitoring developments that may dictate the enforcement of the contingency plan and co-ordination of contingency arrangements are:

### BRAZIL

|                               |   |
|-------------------------------|---|
| Name of agency:               | Department of Airspace Control - DECEA.               |
| Telephone<br><b>BRASÍLIA</b>  | 55 61 3364-8404<br>55 61 3365-5215<br>55 61 9166-9716 |
| REDDIG                        | 3031<br>3032<br>3033<br>3041                          |
| AFTN:                         | SBBSSQZX  |
| Telephone<br><b>RECIFE</b>    | 55 81 3462-2742<br>55 81 2129-8388<br>55 81 3462-4297 |
| REDDIG                        | 3860  |
| AFTN:                         | SBREZQZX<br>SBREZRZX                                  |
| Telephone<br><b>ATLANTICO</b> | 55 81 3462-2742<br>55 81 2129-8388<br>55 81 3462-4297 |
| REDDIG                        | 3878<br>3879  |

|       |          |
|-------|----------|
| AFTN: | SBAOZQZX |
|-------|----------|

The national contingency unit that will normally liaise through the ICAO Regional Office of accreditation as follows:

|                 |  |
|-----------------|--|
| Name of agency: | Department of Airspace Control - DECEA.                  |
| Contact person: | Air Navigation Management Centre (CGNA)                  |
| Telephone:      | 55 21 21 2101-6449                                       |
|                 | 55 21 21 2101-6409                                       |
| REDDIG          | 3058   |
| Fax:            | 55 21 21 2101-6504                                       |
| E-mail:         | <a href="mailto:genac@cgna.gov.br">genac@cgna.gov.br</a> |

**SPAIN**

|                 |  |
|-----------------|--|
| Name of agency: | Aeropuertos Españoles y Navegación Aérea (AENA)            |
| Contact person: | Eduardo Ortuno Villalalos (GCCC Operations Manager)        |
| Telephone:      | +34928577060   |
| Mobile:         | +34667197317   |
| Fax:            | +34-928 577 063  |
| E-mail:         | <a href="mailto:EJOrtuno@enaire.es">EJOrtuno@enaire.es</a> |
| AFTN:           | GCCCZGZX   |
| SITA:           | LPAFOYA  |

|                 |  |
|-----------------|--|
| Name of Office: | Aeropuertos Españoles y Navegación Aérea (AENA)            |
| Contact person: | Eduardo Ortuno Villalalos (GCCC Operations Manager)        |
| Telephone:      | +34928577060   |
| Mobile:         | +34667197317   |
| Fax:            | +34-928 577 063  |
| E-mail:         | <a href="mailto:EJOrtuno@enaire.es">EJOrtuno@enaire.es</a> |
| AFTN:           | GCCCYFPX   |
| SITA:           |  |

**CAPE VERDE**

|                 |  |
|-----------------|--|
| Name of agency: | Aeroportos e Segurança Aérea (ASA)                 |
| Contact person: | Moisés Monteiro                                    |
| Telephone:      | +238 241 13 72/241 92 00                           |
| Mobile:         | +238 992 78 34                                     |
| Fax:            | +238 241 33 36                                     |
| E-mail:         | <a href="mailto:mduarte@asa.cv">mduarte@asa.cv</a> |
| AFTN:           | GVACFDPX   |
| SITA:           | NIL  |

The national contingency unit that will normally liaise through the ICAO Regional Office of accreditation as follows:

|                 |  |
|-----------------|--|
| Name of Office: | Aeroportos e Segurança Aérea (ASA)                 |
| Contact person: | Moisés Monteiro                                    |
| Telephone:      | +238 241 13 72/241 92 00                           |
| Mobile:         | +238 992 78 34                                     |
| Fax:            | +238 241 33 36                                     |
| E-mail:         | <a href="mailto:mduarte@asa.cv">mduarte@asa.cv</a> |
| AFTN:           | GVACFDPX   |
| SITA:           | NIL  |

**ROBERTS FIR**

|                 |   |
|-----------------|---|
| Name of agency: | Roberts Flight Information Region   |
| Contact person: | <a href="#">Alimamy D. Conteh</a>   |
| Telephone:      | +231 6 887160   |
| Mobile:         |   |
| Fax:            |   |
| E-mail:         | <a href="mailto:calimamydixon@yahoo.com">calimamydixon@yahoo.com</a> ; <a href="mailto:adconteh@hotmail.com">adconteh@hotmail.com</a> |
| AFTN:           | GLRBYNYX; GLRBZQZX  |
| SITA:           | NIL   |

In the event of a South American State/Territories/International Organisations declaring contingency, the respective States/Territories/International Organisations will advise the Lima ICAO Regional office representative/s and Contingency Units within neighboring FIR's as per Letter of Procedure:

|                        |  |
|------------------------|--|
| Contact person:        | Franklin Hoyer: Regional Director                              |
| Name of Office:        | Lima ICAO Regional Office                                      |
| Telephone.             | + 511 611 8686   |
| Telephone.             | +51981373075   |
| Residential Telephone: |  |
| E-mail                 | <a href="mailto:fhoyer@lima.icao.int">fhoyer@lima.icao.int</a> |

|                        |  |
|------------------------|--|
| Contact person:        | Oscar Quesada: Regional Sub Director                               |
| Name of Office:        | Lima ICAO Regional Office  |
| Telephone.             | + 511 611 8686   |
| Telephone.             | +51994072976   |
| Residential Telephone: |  |
| E-mail                 | <a href="mailto:oquesada@lima.icao.int">oquesada@lima.icao.int</a> |

|                        |  |
|------------------------|--|
| Contact person:        | Celso Figueiredo: ATM RO   |
| Name of Office:        | Lima ICAO Regional Office  |
| Telephone.             | + 511 611 8686   |
| Telephone.             |  |
| Residential Telephone: |  |
| E-mail                 | <a href="mailto:cfigueiredo@lima.icao.int">cfigueiredo@lima.icao.int</a> |

In the event of an African State/Territories/International Organisations declaring contingency, the respective States/Territories/International Organisations will advise the Dakar ICAO Regional office representative/s and Contingency Units within neighboring FIR's as per Letter of Procedure:

|                 |  |
|-----------------|--|
| Contact person: | Sadou Marafa<br>Regional Officer-ATM<br>Air Traffic Management     |
| Name of Office: | ICAO WCAF Office, Dakar  |
| Telephone.      | +(221) 33 869 24 24/13   |
| Fax             | +(221) 33 820 32 59  |
| E-mail          | <a href="mailto:smarafa@dakar.icao.int">smarafa@dakar.icao.int</a> |

### **IATA (SOUTH AMERICA)**

The South American unit assigned with the responsibility of monitoring developments and co-ordination contingency arrangements with member airlines is:

|                 |  |
|-----------------|--|
| Name of agency: | IATA   |
| Contact person: | Peter Cerdá  |
| Telephone:      | +1 305 266 7552                                      |
| Mobile:         | +1 305 582 1538                                      |
| Fax:            | +1 305 266 7718                                      |
| E-mail:         | <a href="mailto:cerdap@iata.org">cerdap@iata.org</a> |
| SITA:           | MIAELXB  |

## SOUTH AFRICA

|                 |  |
|-----------------|--|
| Name of agency: | Air Traffic & Navigation Services (ATNS) PTY LTD.          |
| Contact person: | Martin Cooper  |
| Telephone:      | +27 11 928 6578  |
| Mobile:         | +27 79 500 8871  |
| Fax:            | +27 11 395 1045  |
| E-mail:         | <a href="mailto:martinc@atns.co.za">martinc@atns.co.za</a> |
| AFTN:           | FAATMATS   |
| SITA:           | JNBXCYP  |

The national contingency unit that will normally liaise through the ICAO Regional Office of accreditation as follows:

|                 |  |
|-----------------|--|
| Name of Office: | Central Airspace management Unit (CAMU)                      |
| Contact person: | Sandile Maphanga   |
| Telephone:      | +27 11 928 6433  |
| Mobile:         | +27 82 085 3429  |
| Fax:            | +27 11 928 6420  |
| E-mail:         | <a href="mailto:sandilem@atns.co.za">sandilem@atns.co.za</a> |
| AFTN:           | FAJSCAMU   |
| SITA:           | JNBXCYP  |

In the event of the Republic of South Africa declaring contingency, the CAMU will advise the following ICAO Regional office representative and Contingency Units within neighboring FIR's as per Letter of Procedure:

|                        |  |
|------------------------|--|
| Contact person:        | Seboseso Machobane<br>Regional Officer<br>Air Traffic Management                       |
| Name of Office:        | ICAO ESAF Office, Nairobi  |
| Telephone.             | +254 20 762 2395   |
| Telephone.             | +254 20 762 2372   |
| Residential Telephone: | +254 717 555 811   |
| E-mail                 | <a href="mailto:seboseso.machobane@icao.unon.org">seboseso.machobane@icao.unon.org</a> |

|                 |  |
|-----------------|--|
| Contact person: | Sadou Marafa<br>Regional Officer-ATM<br>Air Traffic Management     |
| Name of Office: | ICAO WCAF Office, Dakar  |
| Telephone.      | +(221) 33 869 24 24/13   |
| Fax             | +(221) 33 820 32 59  |
| E-mail          | <a href="mailto:smarafa@dakar.icao.int">smarafa@dakar.icao.int</a> |

During a contingency situation, the respective National Contingency units shall liaise with the Flight Information Regions involved through the LIMA ICAO / ICAO ESAF Regional Office/s.

The ICAO ESAF/ LIMA ICAO Regional Office will:

- a. Closely monitor the situation and coordinate with all affected States/Territories/International Organisations and the IATA Regional Office, so as to ensure air navigation services are provided to international aircraft operations in the AFI region;
- b. Take note of any incidents reported and take appropriate action;

- c. Provide assistance as required on any issue with the Civil Aviation Administration involved in the contingency plan; and
- d. Keep the President of the Council of ICAO, the Secretary General, C/RAO.D/ANB and C/ATM continuously informed on developments, including activation of the contingency plan.

## **11. ATS CONTINGENCY PLAN – SOUTH ATLANTIC OCEANIC FIRS**

### **11.1. Airspace Availability for Landing and Over Flights with partial disruption of services.**

**Note: For relevant NOTAM action see APPENDIX A:**

#### Oceanic Service

In the possible event of the HF system becoming unserviceable, aircraft operating in SAT Oceanic airspace are required to maintain last assigned flight level until clearing the effected FIR area of responsibility, unless a level change has been approved through one of the following communication sources:-

Aircraft equipped with ADS/CPDLC operating within this airspace are requested to contact, if available, the effected FIR via ADS/CPDLC on the published address for FANS1 equipped aircraft or FANS/A, equipped aircraft.

### **11.2 Airspace Available But No Services at All; Possible Actions by Airspace Users.**

- a) Avoidance of airspace;
- b) Flight level allocation scheme through FIR;
- c) Co-ordination with adjacent FIRs;
- d) NOTAM action (See Appendix A).

## **12 BASIC PRINCIPLES**

12.1.1 The present plan is based on the following principles:

12.1.1 Only international civil aviation operations, conducted in accordance with IFR in the upper airspace of SAT Oceanic FIRs and performed along the contingency air traffic routes established as described in the respective LOPs, are catered for by this plan.

12.1.2 Air Traffic Services are assumed to be limited or not available within the FIRs mentioned.

12.1.2 A flight level allocation scheme is applied so that over points of crossing or converging traffic, vertical separation will always be provided.

12.1.3 All Random Routing shall be suspended and will not be authorised during the contingency situation. Aircraft shall be routed according to one of the ATS routes described below.

12.1.4 In the event of an ATS contingency situation, air traffic will be allocated with restricted use of flight levels and routes as described hereafter.

### 13 SYSTEM OF CONTINGENCY ATS ROUTES

13.1 A system of contingency ATS routes within the South Atlantic (EUROSAM CORRIDOR) is established as follows:

13.1.1 Aircraft from Europe via Canarias (Spain) / Sal Oceanic (Cape Verde) / Dakar Oceanic (Senegal) and Atlantic (Brazil) Flight Information Regions to South America will be guided through the ATS route network of the FIR, according to the following:

**Note: UN741 Uni-directional route SOUTH bound .**

**ROUTE UN741 – ROSTA – NORED – EDUMO – GAMBA – KENOX – SAGRO – DIGUN – NANIK – DIKEB – PUGSO – JOBER - FL 300 or FL340 or FL 360 or FL380. (EXCLUSIVELY EVEN FLIGHT LEVELS).**

13.1.2 Aircraft from Europe via Canarias (Spain) / Sal Oceanic (Cape Verde) / Dakar Oceanic (Senegal) and Atlantic (Brazil) Flight Information Regions to South America will be guided through the ATS route network of the FIR, according to the following:

**Note: UN873 to be a Uni-directional route SOUTH bound only during contingency situations.**

**ROUTE UN873 – BAROK – BENTU – NEVEL – MITLA – SAMAR – GDV – LIMAL – ISOKA – IPERA – CVS – POMAT – SAGMA – ASEBA – TASIL – ORARO – SALPU – INTOL – FEMUR – IBAGA – NTL – RODES – SEVIL – ISUSO – VACAR – EVPAB – AVILA – TOMAS – ADOLF – BORPA – KOGBU – KODSA – DEDOR – ELEFA – GONZA – BUXER FERMA – MORGA – EVPAD - FL 300 or FL340 or FL 360 or FL380. (EXCLUSIVELY EVEN FLIGHT LEVELS).**

13.1.3 Aircraft from South America via Atlantic (Brazil) / Sal Oceanic (Cape Verde) / Dakar Oceanic (Senegal) and Canarias (Spain) Flight Information Regions to Europe will be guided through the ATS route network of the FIR, according to the following:

**Note: UN866 Uni-directional route NORTH bound .**

**ROUTE UN866 – MAGNO – SAKSI – OBKUT – DEKON – BUXON – NELTO – AMDOL – IREDO – TENPA – USOTI – APASO – ORVEK – GOMER – BRICK – GURKA – KONBA – LUPEX – KUBIL – BEXAL -FL 290 or FL330 or FL350 or FL370 or FL390. (EXCLUSIVELY ODD FLIGHT LEVELS).**

13.1.4 Aircraft from South America via Atlantic (Brazil) / Sal Oceanic (Cape Verde) / Dakar Oceanic (Senegal) and Canarias (Spain) Flight Information Regions to Europe will be guided through the ATS route network of the FIR, according to the following:

**Note: UN857 to be a Uni-directional route NORTH bound only during contingency situations.**

**ROUTE UN857 – (BIDEV – IRUMI – ESLIB – MEDIT – RUBEN – AMBET – FNQ) – NEURA – PUGUN – NOISE – ERUTU – MARAO – DELAX – BOTNO – ORABI – GUNET – ETIBA – BIPET – DEREV – LZR – TERTO – VEDOD - FL 290 or FL330 or FL350 or FL370 or FL390. (EXCLUSIVELY ODD FLIGHT LEVELS).**

13.1.5 Aircraft from South America via Atlantic (Brazil) / Sal Oceanic (Cape Verde) / Dakar Oceanic (Senegal) and Canarias (Spain) Flight Information Regions to Europe will be guided through the ATS route network of the FIR, according to the following:

**Note: UL206 to be a Uni-directional route NORTH bound only during contingency situations.**

**ROUTE UL 206 – (REGIS – ARUNA – BUTAP – KODOS – TAROT) - FL370 ONLY.**

13.1.6 Aircraft routing West Bound crossing the EUROSAM CORRIDOR will be guided through the ATS route network of the FIR, according to the following:

**ROUTE UL375 – BUXIR – OSEPA – BOLUM - USENA – BUTOG – ETAXO – Siset – LOKIM - ISUPA – ETIMO – UDIGA – ARUNU – DIGOR – PUGSA – NOISE – BODAK – ORARO – OBKUT – DIKEB – EGIMI – UKEDI - FL320.**

13.1.7 Aircraft routing East Bound crossing the EUROSAM CORRIDOR will be guided through the ATS route network of the FIR, according to the following:

**ROUTE UL375 - UKEDI - EGIMI – DIKEB – OBKUT – ORARO – BODAK – NOISE – PUGSA – DIGOR – ARUNU – UDIGA – ETIMO – ISUPA – LOKIM - Siset – ETAXO – BUTOG – USENA – BUXIR – FL310.**

13.1.8 Aircraft routing from Luanda FIC Oceanic FIR to South America via Atlántico (Brazil) will be guided through the ATS route network of the FIR, according to the following:

**ROUTE UA611 – ONTAR – BOSNI - ITPIK – AVIGI – EGOLI - EGNOS - APRAS – BUTOG - ILGER – EKALO – TENIG – LOBIK – KIGOL - FL 260 or FL300.**

13.1.9. Aircraft routing from South America via Atlántico (Brazil) to Luanda FIC Oceanic FIR will be guided through the ATS route network of the FIR, according to the following:

**ROUTE UA611 –KIGOL – LOBIK – TENIG – EKALO – ILGER – BUTOG - APRAS – EGNOS – EGOLI - AVIGI – ITPIK – BOSNI - ONTAR - FL 270 or FL370.**

13.1.10 Aircraft routing South Bound crossing the Luanda FIC Oceanic FIR to Johannesburg Oceanic FIR will be guided through the ATS route network of the FIR, according to the following:

**~~ROUTE UQ18 – TERBA – BOSNI – ILDER – IMPOK – GEVIN – UBVER – UVGOD – IMLUT – CTV – FL 270 or FL350.~~**

13.1.11 Aircraft routing North Bound crossing the Luanda FIC Oceanic FIR will be guided through the ATS route network of the FIR, according to the following:

**~~ROUTE UQ18 – CTV – IMLUT – UVGOD – UBVER – GEVIN – IMPOK – ILDER – BOSNI – TERBA - FL 280 or FL380.~~**

13.1.12 Aircraft from South America via Atlántico (Brazil) to Johannesburg FIR will be guided through the ATS route network of the FIR, according to the following:

**ROUTE UL224 – VULGO – ROKAD - CIDER - ITMEK – APKIN – ITGIV – GERAM – ETULA - ITMEK – FL270 or FL370.**

13.1.13 Aircraft going from Johannesburg FIR to South America via Atlántico will be guided through the ATS route network of the FIR, according to the following:

**ROUTE UL224 – ITMEK – ETULA – GERAM – ITGIV - APKIN – ITMEK – CIDER – ROKAD – VULGO – CIDER FL 280 or FL360 or FL380.**

13.1.14 Aircraft going from Ezeiza FIR to Cape Town FIR will be guided through the ATS route network of the FIR, according to the following:

**ROUTE UL211F - PAGAD – ANKOK – KILOS – KAKIN – KETIS – MORSI - MUNES – EKBED – ANTES - ITLIK - APKIN, FL270 or FL370.**

13.1.15 Aircraft going from Cape Town FIR to Ezeiza FIR will be guided through the ATS route network, according to the following:

**ROUTE – UL211F – APKIN – ITLIK – ANTES – EKBED – MUNES – MORSI – KETIS – KAKIN – KILOS – ANKOK - PAGAD, FL320.**

**Note: As per AIP Supplement S74/11 ATM CONTINGENCY PLAN ROBERTS FIR paragraph 3.2 – “The system of Contingency Routes is not required in the Roberts FIR”.**

#### **14 PROCEDURES TO BE FOLLOWED BY ATS UNITS**

14.1 Within the South Atlantic, filed flight plan messages shall continue to be transmitted through the AFTN and processed as per normal procedure.

14.2 The adjacent FIRs, shall be responsible for:

- a) Transmitting of flight plans and estimate messages, to the extent practicable, through the AFTN:
  - i. A current flight plan message, at least one (1) hour before the aircraft's estimated time of arrival over the relevant entry point of the next Oceanic FIR.
  - ii. An estimated message for the relevant entry point of a next Oceanic FIR, at least thirty (30) minutes before the aircraft's estimated time of arrival over that point.
- b) Transmitting, through the AFTN, to the ACC serving the first FIR which an aircraft will enter after departing or transiting the Oceanic FIR, an estimate message for the aircraft over the relevant exit point of the Oceanic FIR, as soon as the aircraft's last position report has been received, containing the aircraft's estimated time of arrival over the exit point.
- c) Applying a longitudinal separation of at least twenty (20) minutes over the relevant entry point of Oceanic FIR, between aircraft flying at the same flight level and following the same contingency air traffic route and instructing the respective pilot-in-command to maintain the flight level and the Mach number assigned throughout the respective Oceanic FIR.
- d) Not authorizing any flight level or Mach number changes of any aircraft transiting through the respective Oceanic FIRs, within a period of ten (10) minutes before entering the next Oceanic FIRs.
- e) Aircraft intending to enter the next Oceanic FIR shall include in the last position report with the adjacent FIR the estimated time of arrival over the relevant entry point of the next Oceanic FIRs and an estimated time of arrival at destination, on the contingency air traffic route used.
- f) The adjacent FIRs shall be responsible for informing aircraft inbound of contingency measures within the respective Oceanic FIR's. Neighbouring FIR's shall in turn advise the intentions of the affected flight.

## 15 PROCEDURES TO BE FOLLOWED BY AIRCRAFT

- 15.1 All aircraft transiting through the South American Oceanic Flight Information Regions shall strictly comply with the following:
- a) Pilots to operate along or as close as possible to the centerline of the assigned contingency air traffic route. Climb and descent must be performed at the right side of the route axis. An aircraft experiencing an emergency or for flight safety reasons, that are unable to maintain an assigned flight level, shall climb or descend well to the right of the centerline of the contingency air traffic route being flown. Aircraft shall transmit on the IBFP VHF frequency 123.45 MHz as well as on the published frequencies at the commencement and completion of any manoeuvre. All transmissions shall comprise of the following: aircraft callsign, the aircraft position, the flight levels being vacated and crossed, etc.).
  - b) No in flight change of level will be authorised except in cases of emergency. An aircraft experiencing an emergency or for flight safety reasons, that are unable to maintain an assigned flight level, shall climb or descend well to the right of the centerline of the contingency air traffic route being flown. Aircraft shall transmit on the IBFP VHF frequency 123.45 MHz as well as on the published frequencies at the commencement and completion of any manoeuvre. All transmissions shall comprise of the following: aircraft callsign, the aircraft position, the flight levels being vacated and crossed, etc.).
  - c) Pilots shall adhere to the IATA In-flight Broadcast Procedures (IFBP) and maintain a continuous listening watch on the VHF frequency 123.45 MHz as well as the published VHF and / or HF frequencies as published. Suitably equipped aircraft may communicate with the appropriate sector via ADS/CPDLC or SATCOM. Pilots shall report their position over all compulsory reporting points established along the respective contingency air traffic service route. In the event of an emergency, traffic shall transmit blind on these published frequencies at the commencement and completion of any manoeuvre.
  - d) Aircraft intending to enter the next Oceanic FIR shall include in the last position report with the adjacent FIR the estimated time of arrival over the relevant entry point of the next Oceanic FIR and an estimated time of arrival at destination;
  - e) Pilots shall contact the adjacent FIR at least ten (10) minutes before the estimated time of arrival over the relevant entry point of the adjacent FIR.
  - f) To display navigation and anti-collision lights at all times.
  - g) Keep SSR Transponder **ON** at all times.
  - h) Pilots shall maintain own longitudinal separation of twenty (20) minutes from the preceding aircraft at the same cruising level. After the contingency airspace is flown, the adjacent ACC may resume normal separations minima as per agreed LOP.

## Appendix A

### NOTAM Action

#### 1. NOTAM Action.

In the event of degradation of air traffic services, the adjacent FIRs and the ICAO Regional Office shall be advised by the most expeditious method available and supported by the relevant NOTAM action. The required collective addresses to be utilised are contained in paragraph two of this Appendix. The following examples of the NOTAM pro-forma shall be used and addressed accordingly:

##### 1.1 Avoidance of Airspace

Priority Indicator: SS

(NOTAM) ... Due to disruption of ATS within (COUNTRY-----), all ACFT are advised to avoid the (COUNTRY -----) Oceanic FIRs.

##### 1.2 Airspace Available With Limited ATS

(NOTAM) ... Due to anticipated disruption of ATS in the (COUNTRY -----) Oceanic FIRs all ACFT are advised that there will be limited ATS. Pilots may experience DLA and may consider avoiding ----- airspace.

(NOTAM) ... Traffic not wishing to adhere to the published contingency plan shall avoid the (COUNTRY -----) Oceanic FIRs.

##### 1.3 Airspace Available But Nil Services

(NOTAM) ... Due to disruption of ATS in the (COUNTRY -----) Oceanic FIRs, ACFT wishing to enter (COUNTRY -----) airspace shall strictly adhere to following contingency flight level allocation scheme and adhere to the procedures below:

Due to reduced availability of Air Traffic Services in (COUNTRY -----) Oceanic FIRs a contingency plan is established pursuant to the ICAO Air Traffic Services Planning Manual (Doc. 9426, Part II, Section I, Chapter I, paragraph 1.3).

The purpose of this NOTAM is to make airspace users and adjacent FIRs aware of the intended procedures and route network. The contingency plan shall enter into force on *(date/ time)*.

#### 2. AFTN Addresses

2.1 The following AFTN addresses shall be used when informing the affected neighbouring and regional FIRs:

- a) FAZZCONT            This collective address contains those addresses for the neighbouring affected FIRs.
- b) FAZZAOPS           This collective address contains those addresses for the local airline operators.
- c) FAZZFOPS           This collective address contains those addresses for the foreign international operators.

## Appendix B

### IATA In-flight Broadcast Procedure (IFBP) (SAT Region)

#### 1. Listening Watch

- 1.1 In the event of a total interruption, while the Contingency Plan is not activated, aircraft overflying the contingent Oceanic Flight Information Regions shall apply the procedures stipulated for air / ground communications failure, set forth in Annex 2 to International Civil Aviation Convention, including the differences published in GEN 1-7, as well as to keep permanent listening watch on the frequency of the flying specific sector and air/air coordination frequency (123.45 MHz) for Broadcast Procedures of Flight Information.
- 1.2 A listening watch should be maintained on the designated frequency (123.45 MHz and 126.9 MHz in AFI), ten (10) minutes before entering the designated airspace until leaving this airspace. For an aircraft taking off from an aerodrome located within the lateral limits of the designated airspace where the IATA In-flight Broadcast Procedure (IFBP) are applicable, should commence the listening watch as soon as appropriate and the listening watch should be maintained until leaving the airspace.

#### 2. Time of Broadcast

- 2.1 A broadcast should be made in English:
  - a) Ten (10) minutes before entering the designated airspace or, for a pilot taking off from an aerodrome located within the lateral limits of the designated airspace, or as soon as appropriate;
  - b) Five (5) minutes prior to crossing a reporting point;
  - c) Five (5) minutes prior to crossing or joining an ATS route;
  - d) At twenty (20) minute intervals between distant reporting points;
  - e) Two (2) to five (5) minutes, where possible, before a change in flight level;
  - f) At the time of a change in flight level; and
  - g) At any time considered necessary by the pilot.

#### 3. Operating Procedures

##### 3.1 Changes of Cruising Level

- 3.1.1 Cruising level change should not be made within the designated airspace unless considered necessary by pilots to avoid traffic conflicts, for weather avoidance, or for other valid operational reasons;
- 3.1.2 When cruising level changes are unavoidable, all available aircraft lighting, which would improve the visual detection of the aircraft, should be displayed while changing levels.

##### 3.2 Collision Avoidance

3.2.1 On receipt of traffic information broadcast from another aircraft, a pilot decides that immediate action is necessary to avoid an imminent collision risk to his aircraft, and this cannot be achieved in accordance with the right-of-way provisions of ICAO Annex 2, he should:

- a) Unless an alternative manoeuvre appears more appropriate, descend immediately 1000ft if above FL290 or 500 ft if at or below FL290;

- b) Display all available aircraft lighting, which would improve the visual detection of the aircraft;
- c) As soon as possible reply to the broadcast advising of the action being taken;
- d) Notify the action taken on the appropriate ATS frequency; and
- e) As soon as the situation has been rectified, resume normal flight level, notifying the action on the appropriate ATS frequency.

### 3.3 Normal Position Reporting Procedures

3.3.1 Normal position reporting procedures should be continued at all times, regardless of any action taken to initiate or acknowledge a traffic information broadcast.

### 3.4 Operation of Transponders

3.4.1 Pilots should ensure that transponder procedures as contained in ICAO PANS OPS Doc 8168 are complied with and in the absence of other directions from ATC, operate the transponder on Mode A and C Code 2000<sup>1</sup>.

<sup>1</sup> *Pilots are advised to ensure operation of transponders even when outside radar coverage in order to enable TCAS equipped aircraft to identify conflicting traffic.*

### 3.5 Use of TCAS

3.5.1 TCAS equipped aircraft should have TA/RA mode selected at maximum range.

## 4. Enforcement

4.1 All airlines operating in the AFI region are requested to:

- a) Ensure that their aircrews are fully briefed on these procedures; and
- b) Ensure that their charts and flight documentation are fully amended to reflect the foregoing.

4.2 Any operator reported to IATA as not applying the procedure shall be contacted immediately, informed of the procedure and requested to comply with the prescribed IATA procedures.

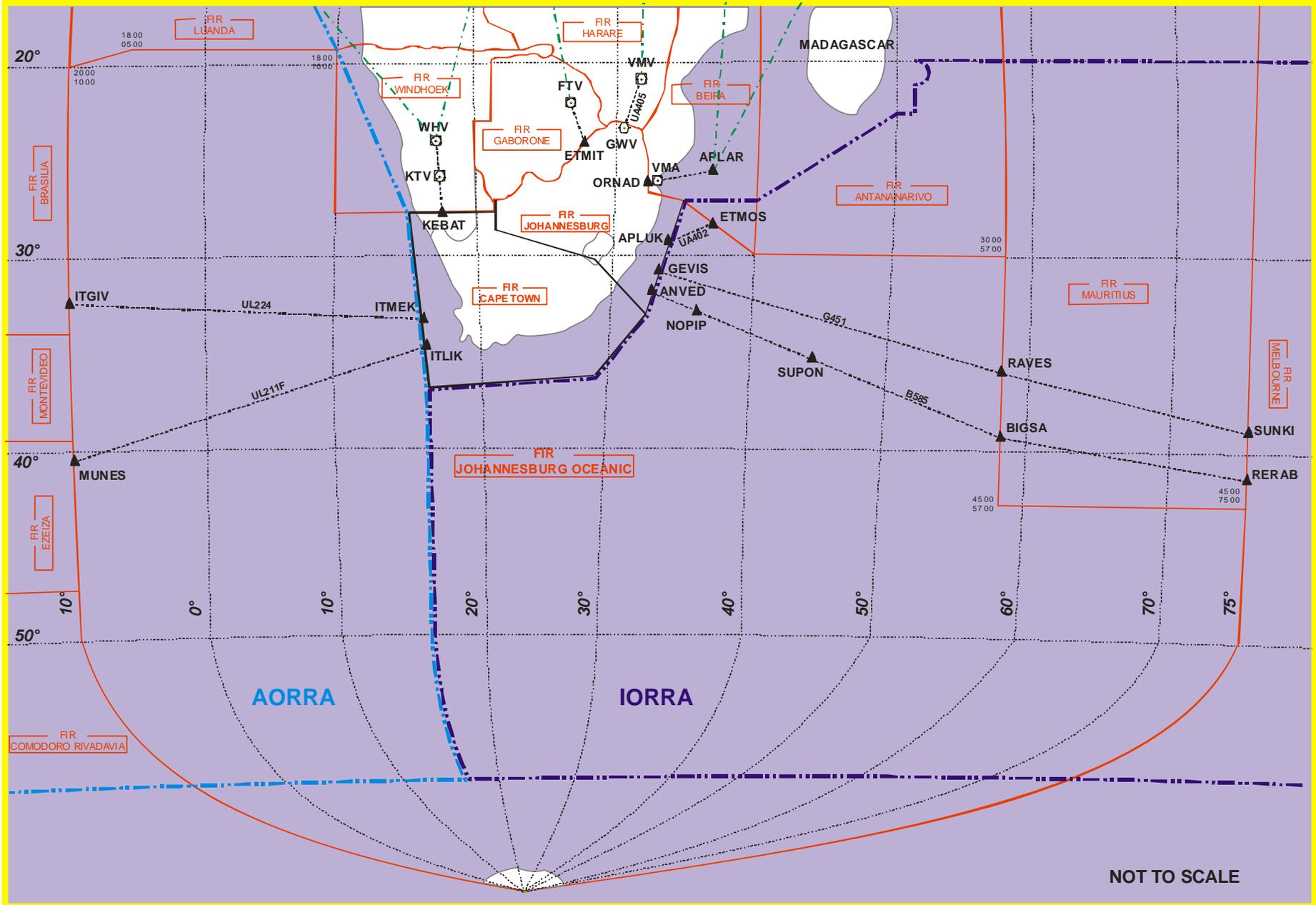
### 4.3 Distribution

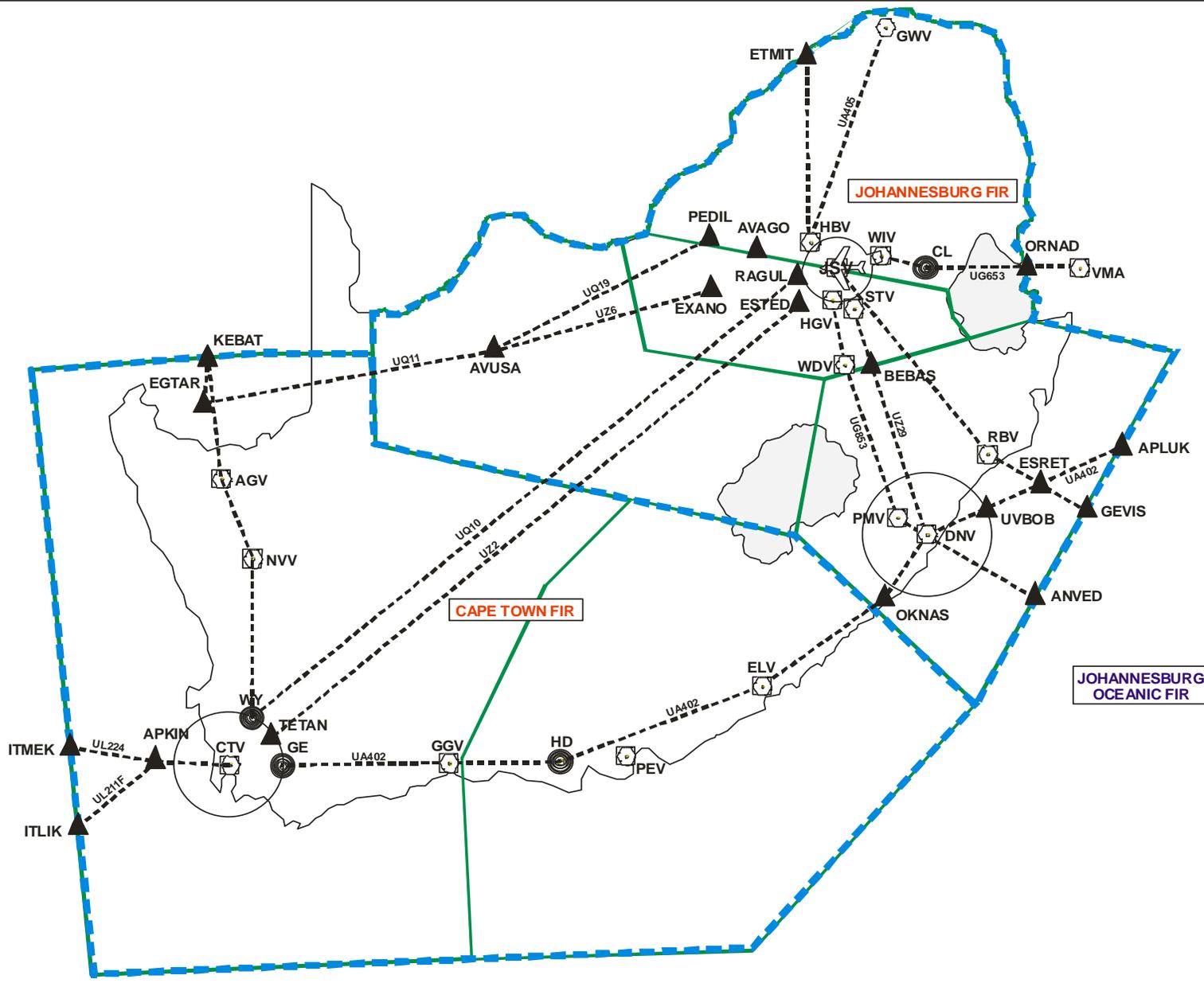
4.3.1 To assist in ensuring widest possible applicability, this procedure is distributed to all known operators in the AFI Region, as well as the following agencies/ organisations:

ATLAS  
KSS (Chart Department)  
IBAA  
Jeppesen  
IAOPA  
IAC

**A. EXAMPLE OF A BROADCAST**

- a) "ALL STATIONS" given only once to attract attention;
- b) "THIS IS AZ ... " (Callsign);
- c) "FL ...";
- d) "NORTH-EAST BOUND LAGOS-ROME VIA UA400";
- e) "POSITION ... AT ...(UTC)";
- f) "ESTIMATED POSITION ... AT ...(UTC)";
- g) "AZ ..." (Callsign);
- h) "FL ...";
- i) "NORTH-EAST BOUND" (Direction of flight through the area).





NOT TO SCALE

