



INTERNATIONAL CIVIL AVIATION ORGANIZATION

**AFI PLANNING AND IMPLEMENTATION REGIONAL GROUP
FOURTEENTH MEETING (APIRG/14)**
(Yaounde, Cameroon, 23-27 June 2003)

Agenda Item 4 : Air Navigation Issues

4.7: ANP/FASID

(Presented by the Secretariat)

Summary

This paper presents amendments to the AFI Basic ANP and FASID documents as completed and approved by the APIRG.

1. Introduction

1.1 It may be recalled that the AFI Basic ANP and FASID documents have been completed and approved by the APIRG/13 Meeting. States are now familiar with these documents.

2. Discussion

2.1 There is a need to incorporate amendments to the AFI Basic ANP for approval by the APIRG. These amendments relate to CNS and MET fields as included in the AFI ANP and FASID documents.

2.2 In the CNS field, the proposed amendments are shown at **Appendices A1, A2 and A3** to this paper. Amendment proposals concern the following:

AFI FASID Table CNS-1A (AFTN)

- inclusion of the circuit Cairo/Tripoli
- inclusion of the circuit Bata/Brazzaville via Douala

AFI FASID Table CNS-1D (ATS/DS)

- establishment of Atlantico FIR (in Brazil) interfacing with Dakar Oceanic, Johannesburg and Luanda FIRs (WP/8 refers);
- inclusion of the circuit Lagos/Niamey (WP/6 refers)
- inclusion of the circuit Las Palmas/Nouakchott (WP/17 refers)

AFI FASID Table CNS-3 (ARNS)

- inclusion of GNSS planning elements (WP/8 refers).

2.3 Concerning the MET field, in view of the developments over the last few years, the regional procedures related to the World Area Forecast System (WAFS) are in need for update. The proposed amendments take into account Amendment 72 to Annex 3 and the fact that the responsibilities of all regional area forecast centres (RAFCs) have been transferred to the World Area Forecast Centre London, WP/7 refers.

2.4 The following conclusion was formulated :

Conclusion 14/ - Amendment to AFI ANP/FASID Documents

That amendments proposed in the CNS sand MET fields as contained in Appendix ---- be reflected in AFI ANP/FASID Documents.

2.5 **Action by the APIRG**

The meeting is invited to :

- S review the amendments proposed
- S approve the amendments for inclusion in the AFI ANP/FASID Documents.

Amendment proposals to AFI FASID Table CNS-1A

| Terminal I/Tête de ligne I Terminal II/Tête de ligne II | Category/Catégorie | Remarks/Observations | |
|--|--------------------|---------------------------|------------|
| 1 | 2 | 3 | |
| BRAZZAVILLE | M | VIA DOUALA | |
| BANGUI | T | | |
| BATA | S | | |
| DAKAR | M | | |
| DOUALA | T | | |
| KINSHASA | T | | |
| JOHANNESBURG | M | | |
| LIBREVILLE | T | | |
| LUANDA | T | | |
| MALABO | S | | |
| NAIROBI | M | | VIA DOUALA |
| N'DJAMENA | T | | |
| NIAMEY | M | | |
| SAO TOME & PRINCIPE | T | | |
| CAIRO | | ATHENS BEIRUT & JEDDAH | |
| KHARTOUM | T | | |
| NAIROBI | M | | |
| TRIPOLI | T | | |
| TUNIS | M | | |
| (EUR) | - | | |
| (MID) | - | | |

Amendment proposals to AFI FASID Table CNS-1D

| ATS requirements for speech communications Besoins en communications vocales | | | Remarks Observations |
|---|----------------------------|--------------|-------------------------|
| Terminal I Terminal I | Terminal II Terminal II | Type Type | |
| 1 | 2 | 3 | 4 |
| ANGOLA | | | |
| LUANDA | ACCRA | A | |
| ACC-FIC | BRASILE ATLANTICO | A | |
| | BRAZZAVILLE | A | |
| | GABORONE | A | |
| | JOHANNESBURG | A | |
| | KINSHASA | A | |
| | LUSAKA | A | |
| | WINDHOEK | A | |
| MAURITANIA | | | |
| <u>NOUADHIBOU</u> | <u>DAKAR</u> | <u>A</u> | |
| <u>APP</u> | <u>LAS PALMAS</u> | <u>A</u> | |
| | <u>NOUAKCHOTT</u> | <u>A</u> | |
| <u>NOUAKCHOTT</u> | <u>DAKAR</u> | <u>A</u> | |
| <u>ACC/FIS</u> | LAS PALMAS | A | |
| | <u>NOUADHIBOU</u> | <u>A</u> | |
| NIGER | | | |
| NIAMEY | ABIDJAN | A | |
| ACC/FIC | ACCRA | A | |
| | ALGER | A | |
| | DAKAR | A | |
| | GAO | A | |
| | KANO | A | |
| | LAGOS | A | |
| | N'DJAMENA | A | |
| | OUAGADOUGOU | A | |
| | TRIPOLI | A | |

| | | | |
|----------------|-------------|---|--|
| NIGERIA | | | |
| KANO | ACCRA | A | |
| ACC/FIC | BRAZZAVILLE | A | |
| | DOUALA | A | |
| | LAGOS | A | |
| | LIBREVILLE | A | |
| | MAIDUGURI | A | |
| | N'DJAMENA | A | |
| | NIAMEY | A | |
| LAGOS | ACCRA | A | |
| ACC/FIC | COTONOU | A | |
| | DOUALA | A | |
| | KANO | A | |
| | LIBREVILLE | A | |
| | NIAMEY | A | |
| MAIDUGURI | KANO | A | |
| APP | N'DJAMENA | A | |

| ATS requirements for speech communications Besoins en communications vocales | | | Remarks Observations |
|---|----------------------------|--------------|-------------------------|
| Terminal I Terminal I | Terminal II Terminal II | Type Type | |
| 1 | 2 | 3 | 4 |
| SENEGAL | | | |
| DAKAR | ABIDJAN | A | |
| ACC/FIC | ALGER | A | |
| | BAMAKO | A | |
| | BANJUL | A | |
| | BISSAU | A | |
| | CASABLANCA | A | |
| | FREETOWN | A | |
| | LAS PALMAS | A | |
| | NIAMEY | A | |
| | NOUADHIBOU | A | |
| | NOUAKCHOTT | A | |
| | RECIFE ATLANTICO | A | |
| | ROBERTSFIELD | A | |
| | ROCHAMBEAU | A | |
| | SAL | A | |

| ATS requirements for speech communications Besoins en communications vocales | | | Remarks Observations |
|---|----------------------------|--------------|-------------------------|
| Terminal I Terminal I | Terminal II Terminal II | Type Type | |
| 1 | 2 | 3 | 4 |
| SOUTH AFRICA | | | |
| BLOEMFONTEIN | CAPETOWN | A | |
| | DURBAN | A | |
| | JOHANNESBURG | A | |
| | MASERU | A | |
| | PORT ELIZABETH | A | |
| | WINDHOEK | A | |
| CAPETOWN | BLOEMFONTEIN | A | |
| | JOHANNESBURG | A | |
| | PORT ELIZABETH | A | |
| | WINDHOEK | A | |
| DURBAN | BLOEMFONTEIN | A | |
| | JOHANNESBURG | A | |
| | MANZINI | A | |
| | MAPUTO | A | |
| | PORT ELIZABETH | A | |
| JOHANNESBURG | ANTANANARIVO | A | |
| | BEIRA | A | |
| | BLOEMFONTEIN | A | |
| | BRASILIA ATLANTICO | A | |
| | CAPETOWN | A | |
| | DURBAN | A | |
| | EZEIZA | A | |
| | GABORONE | A | |
| | HARARE | A | |
| | LUANDA | A | |
| | MANZINI | A | |
| | MAPUTO | A | |
| | MAURITIUS | A | |
| | PERTH | A | |
| | PORT ELIZABETH | A | |
| WINDHOEK | A | | |
| PORT ELIZABETH | BLOEMFONTEIN | A | |
| | CAPETOWN | A | |
| | DURBAN | A | |
| | JOHANNESBURG | A | |

TABLE CNS 3 - RADIONAVIGATION AIDS
Phases I and II of the AFI GNSS Strategy
EXPLANATION OF THE TABLE

Column

- 1 Name of the country, city and aerodrome and, for en-route and terminal area aids, the location of the facility.
- 2 Type of runway:
 - NINST - non-instrument
 - NPA- non-precision approach runway
 - PA1 - precision approach runway, Category I
 - PA2 - precision approach runway, Category II
- 3 The function served by the aids shown in columns 4 to 8:
 - A/L - approach and landing
 - E - en-route
 - T - terminal
- 4 ILS - Instrument landing system. The designation number of the runway to be served by an ILS is indicated together with a Roman numeral I or II to indicate a facility performance Category I or II ILS, respectively.

Note: - The symbol A@ indicates that the ILS requires a Category II signal quality but without the reliability and availability provided by redundant equipment and automatic changeover.*
- 5 Locator, either associated with an ILS or for use as an approach aid to an aerodrome.
- 6 Distance measuring equipment. Aligned with the ILS shown in column 4 when the DME is required to serve as a substitute for a marker beacon component of ILS. When aligned with the VOR in column 7, indicates a requirement for the DME to be collocated with the VOR.
- 7 Recommended VOR.
- 8 NDB.

Note I:- New requirements for NDB are discouraged. En-route navigation requirements are to be met by VOR/DME facilities.

Note II:- A plus sign (+) indicates that the NDB should be withdrawn when the recommended VOR or VOR/DME is implemented.

Note III:- The LF/MF NDB annotated with the symbol A#@are, with few exceptions, existing national facilities which are not protected from interference to the extent required by the international planning provisions of Annex 10.

- 9 The distance and altitude to which signal protection of the VOR or VOR/DME is required, indicated in nautical miles (NM) and in hundreds of feet, or recommended rated coverage of NDB expressed in nautical miles.

Note: - Rated coverage is defined as the area surrounding an NDB within which the strength of the vertical field of the ground wave exceeds the minimum value specified for geographical area in which the radio beacon is located.

- 10 & 11 GNSS - global navigation satellite system (including GBAS and SBAS). **(To be developed)**

GBAS (ground-based augmentation system) implementation planned to be used in precision approach and landing CAT-I , CAT-II, CAT-III.

Note: CAT-I by GBAS or SBAS will be available at those location where analysis of historical MET data or traffic characteristics justifies the requirement.

SBAS (satellite-based augmentation system) planned to be used for route navigation, for terminal, for non precision approach and landing. An AX@indicates service availability; exact location of installation will be determined.

- 12 Remarks

TABLEAU CNS 3 - AIDES DE RADIONAVIGATION

EXPLICATION DU TABLEAU

Colonne

- 1 Nom du pays, de la ville et de l'aérodrome et, dans le cas des aides de route et de région terminale, emplacement de l'installation.
- 2 Type de piste:
 - NINST - piste à vue
 - NPA- piste avec approche de non-précision
 - PA1 - piste avec approche de précision, catégorie I
 - PA2 - piste avec approche de précision, catégorie II
- 3 Fonction des aides indiquées dans les colonnes 4 à 8:
 - A/L - aide d'approche et d'atterrissage
 - E - aide de route
 - T - aide terminale
- 4 ILS - Système d'atterrissage aux instruments. Le numéro d'identification de la piste qui doit être desservie par un ILS est indiqué et accompagné du chiffre romain I ou II pour indiquer une installation ILS de catégorie de performance I ou II, respectivement.

Note: - Le symbole A® indique que l'ILS doit émettre des signaux d'assez bonne qualité pour la catégorie II, sans la fiabilité et la disponibilité procurées par un équipement redondant et le passage automatique sur équipement de secours.*
- 5 Radiobalise associée à un ILS ou utilisée comme aide d'approche sur un aérodrome.
- 6 Équipement de mesure de distance. En regard de l'ILS de la colonne 4: le DME doit être utilisé à place d'une radioborne faisant partie de l'ILS. En regard du VOR de la colonne 7: le DME doit être coïmplanté avec le VOR.
- 7 VOR recommandé.
- 8 NDB recommandé.

Note I:- Le signe plus (+) indique que le NDB devra être mis hors de service lorsque l'installation VOR ou VOR/DME aura été mis en oeuvre.

Note II:- Presque tous les NDB LF/MF identifiés par le symbol A#® sont des aides nationales existantes non protégées contre le brouillage autant que l'exigent les dispositions de l'Annexe 10 relatives à la planification internationale.

- 9 La distance et l'altitude jusqu'auxquelles les signaux du VOR ou du VOR/DME doivent être protégés sont respectivement indiquées en milles marins (NM) et en centaines de pieds, et la couverture nominale recommandée pour le radiophare non directionnel NDB est donnée en milles marins.

Note: - Par définition, la couverture nominale est la zone entourant le NDB dans laquelle le champ vertical de l'onde de sol dépasse la valeur minimale spécifiée pour la région où se trouve ce radiophare.

- 10 & 11 GNSS C Système mondial de navigation par satellite (comprend le GBAS et le SBAS).

Implantation du GBAS (système de renforcement par stations au sol) destiné à être utilisé pour les approches de précision et les atterrissages CAT I, CAT II, CAT III.

Note: Le GBAS ou SBAS de CAT-I sera disponible aux emplacements où l'analyse des données MET historiques ou bien les caractéristiques de trafic en justifient le besoin.

Implantation du SBAS (système de renforcement par satellite) destiné à la navigation en route, pour la navigation en région terminale et pour les approches et atterrissages conventionnels. Un *X+ indique que le service est assuré; l'emplacement exact de l'installation sera déterminé ultérieurement.

- 12 Observations

| Station | RWY Type | Function Fonction | ILS | L | DME | VOR | NDB | Coverage Couverture | GNSS | | | REMARKS/OBSERVATIONS | |
|------------------------------|--------------------|----------------------|--------------------|---|-----|-----|-----|------------------------|------|--------|--------|----------------------|------|
| | | | | | | | | | GBAS | SBAS | | | |
| | | | | | | | | | | NPA | APV 1 | | RIMS |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| ALGERIA | | | | | | | | | | | | | |
| ADRAR/Taouat | 04 NPA 22 NINST | A/L | | X | X | X | X | 200/250 | | X X | X X | | |
| ALGER/Houari Boumediene | 05 NPA 23 PA2 | E | 23-II | | X | X | | 200/500 | | X X | X X | | |
| | | A/L | | X | X | X | | | | | | | |
| | | A/L | | X | X | X | | | | | | | |
| | 09 PA1 27 NPA | A/L | 09-II ^z | X | | | | | | X X | X X | | |
| | | A/L | | | | | | | | | | | |
| ANNABA/EL Mellah | 01 NPA 19 PA1 | E | 19-II | | X | X | X | 200/250 | | X X | X X | | |
| | | A/L | | X | X | X | | | | | | | |
| | | A/L | | X | X | X | | | | | | | |
| | 05 NPA 23 NINST | A/L A/L | | | | | | | | X X | X X | | |
| BEJAIA/Bejaia | 08 NPA 26 NPA | E A/L A/L | | | | | X | | | X X | X X | | |
| BENI ABBES | | E | | | | | X | 200/500 | | | | | |
| BENI AMRANE | | E | | | | | X | 200/170 | | | | | |
| BORDJ MOKHTAR | | E | | | | X | | 100 | | | | | |
| BORDJ OMAR DRISS | | E | | | X | X | X | 200/500 | | | | | |
| BOU-SAADA | | E | | | X | X | | 200/500 | | | | | |
| CHERCHELL | | E | | | X | X | X | 100 | | | | | |
| CONSTANTINE/Mouhamed Boudiaf | 14 NPA 32 PA1 | E | 32-II* | | X | X | X | 200/500 | | X X | X X | | |
| | | A/L | | X | X | X | | | | | | | |
| | | A/L | | X | X | X | | | | | | | |

| Station | RWY Type | Function Fonction | ILS | L | DME | VOR | NDB | Coverage Couverture | GNSS | | | REMARKS/OBSERVATIONS | |
|---------------------------|------------------|----------------------|--------|--------|-------------|-------------|-------------|------------------------|------|--------|--------|----------------------|------|
| | | | | | | | | | GBAS | SBAS | | | |
| | | | | | | | | | | NPA | APV 1 | | RIMS |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| | 16 NPA 34 PA1 | A/L A/L | 34-II* | | X X | X X | | | | X X | X X | | |
| DELLYS | | E | | | | | X | 50 | | | | | |
| DJANET | | E E | | | X | X | X+# | 200/500 100 | | | | | |
| EL BAYADH | | E | | | | X | X | 150/100 100 | | | | | |
| EL GOLEA | | E E | | | X | X | X+ | 200/500 100 | | | | | |
| EL OUED | | E | | | X | X | X | 200/400 | | | | | |
| GHARDAIA/Noumérat | 12 NPA 30 PA1 | E A/L A/L | 30-I | | X X X | X X X | X X X | 200/500 | | X X | X X | | |
| HASSI-MESSAOUD/Oued Irara | | E E | | | X | X | X+# | 200/500 50 | | | | | |
| | 01 PA1 19 NPA | A/L A/L | 01-I | | X X | X X | | | | X X | X X | | |
| ILLIZI | | E | | | | X | | 200/500 | | | | | |
| IN GUEZZAM | | E | | | | X | X | 200/170 100 | | | | | |
| IN SALAH/In Salah | | E E | | | X | X | X | 200/400 100 | | | | | |
| | 05 NPA 23 NPA | A/L A/L | | X X | X X | X X | | | | X X | X X | | |
| JIJEL/Ferhat Abbas | | E | | | X | X | X | 200/500 50 | | | | | |
| MECHERIA | | E | | | | | X | 50 | | | | | |

| Station | RWY Type | Function Fonction | ILS | | | | | Coverage Couverture | GNSS | | | REMARKS/OBSERVATIONS | | |
|----------------------|------------------|----------------------|--------|-------------|-------------|-------------|-----|-------------------------------|------|--------|--------|----------------------|------|--|
| | | | | L | DME | VOR | NDB | | GBAS | SBAS | | | | |
| | | | | | | | | | | NPA | APV 1 | | RIMS | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | |
| MOSTAGANEM | | E | | | X | X | | 200/500 | | | | | | |
| ORAN/Es Sénia | 07 NPA 25 PA2 | E A/L A/L | 25-II | X X X | X X X | X X X | | 200/400 200/400 | | X X | X X | | | |
| REGGAN | | E | | | | | X | 80 | | | | | | |
| TAMANRASSET/Aguennar | 02 NPA 20 NPA | E A/L A/L | 03-II* | X X X | X X X | X X X | | 200/500 200/500 | | X X | X X | | | |
| | 08 PA1 26 NPA | A/L A/L | 08-II* | X X | | | | | | X X | X X | | | |
| TEBESSA/Tébessa | 11 NPA 29 NPA | E A/L A/L | | X | X X | X X | | 200/500 | | X X | X X | | | |
| TIARET/Bou Chekif | 09 NPA | E A/L E | | X | X | X X | | 200/500 50 | | | | | | |
| TIMIMOUN | | E | | | X | X | X | 200/400 | | | | | | |
| TINDOUF | | E | | | X | X | X | 200/400 125 | | | | | | |
| TLEMCEN/Zénata | 07 NPA 25 NPA | A/L | | | X | X | X | 20/500 180 | | | | | | |
| TOUGGOURT/Sidi Mahdi | | E | | | X | X | X | 200/500 50 | | | | | | |
| ZARZAITINE/In-Amenas | 05 NPA 23 NPA | E A/L A/L | | | X X | X X | X | 200/400 200/400 | | X X | X X | | | |
| | | | | | | | X | 135 | | | | | | |

| Station | RWY Type | Function Fonction | ILS | L | DME | VOR | NDB | Coverage Couverture | GNSS | | | REMARKS/OBSERVATIONS | | |
|---------------------------------|----------------------|----------------------|--------|--------|-------------|-------------|-----|------------------------|------|--------|--------|----------------------|------|--|
| | | | | | | | | | GBAS | SBAS | | | | |
| | | | | | | | | | | NPA | APV 1 | | RIMS | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | |
| ZEMMOURI | | E | | | X | X | X | 200/500 135 | | | | | | |
| ANGOLA | | | | | | | | | | | | | | |
| CUITO CUANAVALÉ | | E | | | X | X | | 200/500 | | | | | | |
| HUAMBO/Albano Machado | 11 NPA 29 NPA | A/L | | | X | X | | 200/500 | | X X | X X | | | |
| KUITO | | E | | | X | X | | 200/500 | | | | | | |
| LUANDA/4 de Fevereiro | 05 NPA 23 PA1 | E A/L A/L | 23-II* | X X | X X X | X X X | | 200/500 | | X X | X X | | | |
| LUENA | | E | | | X | X | | 200/500 | | | | | | |
| SAURIMO | | E E | | | X | X | X+# | 200/500 50 | | | | | | |
| BENIN | | | | | | | | | | | | | | |
| COTONOU/Cadjehoun | 06 NPA 24 PA1 | E A/L A/L | 24-II* | X X | X X X | X X X | | 200/500 | | X X | X X | | | |
| BOTSWANA | | | | | | | | | | | | | | |
| FRANCISTOWN | 11 NINST 29 NINST | E A/L | | X | X | X | | 200/500 | | X X | X X | | | |
| GABORONE/Sir Seretse Khama Intl | 08 PA1 26 NPA | E A/L A/L | 08-I | | X X | X X | | 200/500 | | X X | X X | | | |
| KASANE/Kasane | 08 NPA 26 NINST | A/L | | | X | X | | 200/500 | | X X | X X | | | |

| Station | RWY Type | Function Fonction | ILS | L | DME | VOR | NDB | Coverage Couverture | GNSS | | | REMARKS/OBSERVATIONS | |
|-------------------------------|----------------------|----------------------|---------|-------------|-------------|-------------|-----|------------------------|------|--------|--------|----------------------|------|
| | | | | | | | | | GBAS | SBAS | | | |
| | | | | | | | | | | NPA | APV 1 | | RIMS |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| MAUN/Maun | 08 NINST 26 NINST | E A/L | | | X | X X | | 200/500 | | X X | X X | | |
| KANG | | E | | | | X | | 200/500 | | | | | |
| SELEBI-PHIKWE/Selebi Phikwe | 12 NINST 30 NINST | A/L | | | | | X | | | X X | X X | | |
| BURKINA FASO | | | | | | | | | | | | | |
| BOBO-DIOULASSO/Bobo-Dioulasso | 06 PA1 24 NPA | E A/L A/L | 06-I | X X | X X | X X | | 200/500 | | X X | X X | | |
| OUAGADOUGOU/Ouagadougou | 04L PA1 22R NPA | E A/L A/L | 04L-II* | X X | X X | X X | | 200/500 | | X X | X X | | |
| BURUNDI | | | | | | | | | | | | | |
| BUJUMBURA/Bujumbura | 18 PA1 36 NPA | E A/L A/L | 18-II* | X | X X X | X X X | | 200/500 | | X X | X X | | |
| CAMEROON | | | | | | | | | | | | | |
| DOUALA/Douala | 12 NPA 30 PA2 | E A/L A/L | | X X X | X X X | X X X | | 200/500 | | X X | X X | | |
| FOUMBAN | | E | | | | X | | 200/500 | | | | | |
| GAROUA/Garoua | 09 PA1 27 NPA | E A/L A/L | 09-II* | X X | X X | X X | | 200/500 | | X X | X X | | |
| MAMFE | | E | | | | X | | 200/500 | | | | | |
| MAROUA/Salak | 13 NPA 31 NINST | E A/L | | | | X X | X | 200/500 | | X X | X X | | |

| Station | RWY Type | Function Fonction | ILS | | | | | Coverage Couverture | GNSS | | | REMARKS/OBSERVATIONS | |
|-------------------------------------|--------------------|----------------------|-------------|--------|--------|--------|-----|------------------------|------|--------|--------|----------------------|------|
| | | | | L | DME | VOR | NDB | | GBAS | SBAS | | | |
| | | | | | | | | | | NPA | APV 1 | | RIMS |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| ANJOUAN/Ouani | 10 NPA 28 NPA | A/L | | X | | | | | | X X | X X | | |
| DZAOUDZI/Pamanzi, Mayotte I. | 16 NINST 34 NPA | A/L | | X | X | X | | 40/250 | | X X | X X | | |
| MORONI/Hahaïa Prince Said Ibrahim | 02 PA1 20 NPA | E A/L A/L | 02-II* X | X X | X X | X X | | 200/500 | | X X | X X | | |
| CONGO | | | | | | | | | | | | | |
| BRAZZAVILLE/Maya-Maya | 06 PA1 24 NPA | E A/L A/L | 06 -II* | X X | X X | X X | | 200/500 | | X X | X X | X | |
| MAKOUA | | E | | | | X | | 200/500 | | | | | |
| POINTE-NOIRE/Agostino Neto | 17 NPA 35 NPA | E A/L A/L | | X X | X X | X X | | 200/500 200/500 | | X X | X X | | |
| COTE D'IVOIRE | | | | | | | | | | | | | |
| ABIDJAN/Félix Houphouet Boigny | 03 NPA 21 PA2 | E A/L A/L | 21-II | X X | X X | X X | | 200/500 | | X X | X X | | |
| BOUAKE/Bouaké | 03 NPA 21 PA1 | E A/L A/L | 21-I | X X | X X | X X | | 200/500 | | X X | X X | | |
| DEMOCRATIC REPUBLIC OF CONGO | | | | | | | | | | | | | |
| BUNIA | | E | | | | X | | 200/500 | | | | | |
| GOMA/Goma | 18 NINST | E | | | X | X | | 200/500 | | X | X | | |

| Station | RWY Type | Function Fonction | ILS | | | | | Coverage Couverture | GNSS | | | REMARKS/OBSERVATIONS | |
|-----------------------|-----------------------|----------------------|---------|--------|-------------|-------------|-----|------------------------|------|--------|--------|----------------------|-----------|
| | | | | L | DME | VOR | NDB | | GBAS | SBAS | | | |
| | | | | | | | | | | NPA | APV 1 | | RIMS |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| | 36 NPA | A/L | | | X | X | | | | X | X | | |
| KALEMIE | | E | | | | X | | 200/500 | | | | | |
| KANANGA | | E | | | | X | | 200/500 | | | | | |
| KINDU | | E | | | | X | | 200/500 | | | | | |
| KINSHASA/N_Djili | 06 NPA 24 PA1 | E A/L A/L | 24-II* | X X | X X | X X | | 200/500 | | X X | X X | | |
| KISANGANI/Bangoka | 13 NPA 31 NPA | E A/L A/L | | X X | | X X | | 200/500 | | X X | X X | | |
| LUBUMBASHI/Luano | 07 PA1 25 NPA | E A/L A/L | 07 -II* | X X | X X | X X | | 200/500 | | X X | X X | | |
| MBUJI MAYI/Mbuji Mayi | 17 NPA 35 NINST | A/L A/L | | X | | X | | | | X X | X X | | |
| DJIBOUTI | | | | | | | | | | | | | |
| DJIBOUTI/Ambouli | 09 NPA 27 PA1 | E A/L A/L | 27-II* | X X | X X | X X | | 200/500 | | X X | X X | X | |
| EGYPT | | | | | | | | | | | | | |
| ABU SIMBEL/Abu Simbel | 15L NPA 33R NPA | E A/L A/L | | | X X X | X X X | | 200/500 | | X X | X X | | |
| | 15R NPA 33L NPA | A/L A/L | | | | X X | | | | X X | X X | | |
| ALEXANDRIA/Alexandria | 04 NPA PA-I 22 NPA | E A/L A/L | 04-II* | | X X X | X X X | | 200/500 | | X X | X X | X | ECAC RIMS |

| Station | RWY Type | Function Fonction | ILS | L | DME | VOR | NDB | Coverage Couverture | GNSS | | | REMARKS/OBSERVATIONS | |
|-------------------|-----------------------------|---|--------|---|------------------|------------------|-----|------------------------|------|--------|--------|----------------------|----------|
| | | | | | | | | | GBAS | SBAS | | | |
| | | | | | | | | | | NPA | APV 1 | | RIMS |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| ASWAN/Aswan | 18 NPA 36 NPA | A/L A/L A/L | | | X X X | X X X | | | | X | X | | AFI RIMS |
| | 17 NPA 35 PA1 | E A/L A/L | 35-II* | | X X X | X X X | | 200/500 | | X X | X X | X | |
| ASYUT | | E | | | X | X | | 200/500 | | | | | |
| BALTIM | | E | | | X | X | | 200/500 | | | | | |
| CAIRO/Cairo Intl | 05L PA2 | A/L | 05L-II | | X | X | | | | | | X | |
| | 23R PA2 | E T A/L | 23R-II | | X X X | X X X | | 200/500 | | | | X | |
| | 05R PA2 | E T A/L | 05R-II | | X X X | X X X | | 200/500 | | | | X | |
| | 23L PA2 16 NPA 34 NPA | E T A/L A/L | 23L-II | | X X X X | X X X X | | 200/500 | | | | X X X X | |
| EL ARISH | | E T | | | X X | X X | | 200/500 | | | | | |
| | NPA | E A/L | | | X X | X X | | 200/500 | | X | X | | |
| FAYOUM | | E | | | X | X | | 200/500 | | | | | |
| HURGHADA/Hurghada | 16 NPA | E A/L | | | X | X X | X | 200/500 | | X | X | | |

| Station | RWY Type | Function Fonction | ILS | L | DME | VOR | NDB | Coverage Couverture | GNSS | | | REMARKS/OBSERVATIONS | |
|--|-----------|----------------------|---------|---|-----|-----|-----|------------------------|------|------|-------|----------------------|------|
| | | | | | | | | | GBAS | SBAS | | | |
| | | | | | | | | | | NPA | APV 1 | | RIMS |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| LUXOR/Luxor | 34 PA1 | A/L | 34-II* | | X | X | | 200/500 | | X | X | | |
| | 02 NPA | E | | | X | X | | | | X | X | | |
| | 20 PA1 | A/L | 20-I | X | X | X | | | | X | X | | |
| MERSA MATRUH/Mersa Matruh | 15 NPA | A/L | | | | | | | | X | X | | |
| | 33 NPA | A/L | | | | | | | | X | X | | |
| NUWEIBAA | | E | | | | | X | 200 | | | | | |
| SAINTE CATHERINE/Sainte Catherine Intl | 17 NPA | E | | | | | X | 200 | | X | X | | |
| | 35 NINST | A/L | | | | | X | | | X | X | | |
| SHARM EL SHEIK/Sharm El Sheik | 04L PA1 | E | 04L-II* | | X | X | | 200/500 | | | | | |
| | 22R NINST | A/L | | | X | X | X+ | | | X | X | | |
| TABA/Taba | 04 NINST | E | | | | | X | 200/500 | | | | | |
| | 22 NPA | A/L | | | | | X | | | X | X | | |
| EQUATORIAL GUINEA | | | | | | | | | | | | | |
| BATA | | E | | | | | X | 200 | | | | | |
| MALABO/Malabo | 05 PA1 | E | 05-I | | | | | 200/500 150 | | | | | |
| | 23 NPA | A/L | | X | | X | X+ | | | X | X | | |
| ERITREA | | | | | | | | | | | | | |
| ASMARA/Asmara Intl | 07 PA1 | E | 07-II* | | X | X | X | 200/500 | | X | X | | |
| | 25 NPA | A/L | | X | | X | X | | | X | X | | |
| ASSAB/Assab | 12 NPA | A/L | | | | | X | 150 | | X | X | | |
| | 30 NINST | A/L | | | | | | | | X | X | | |

| Station | RWY Type | Function Fonction | ILS | L | DME | VOR | NDB | Coverage Couverture | GNSS | | | REMARKS/OBSERVATIONS | |
|---------------------------------|--------------------|----------------------|--------|---|--------|--------|-----|------------------------|------|--------|--------|----------------------|------|
| | | | | | | | | | GBAS | SBAS | | | |
| | | | | | | | | | | NPA | APV 1 | | RIMS |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| ETHIOPIA | | | | | | | | | | | | | |
| ADDIS ABABA/Bole Intl | 07 NPA 25 PA1 | E A/L A/L | 25-II* | X | X X | X X | | 200/500 | | X X | X X | | |
| 0519.3N 3745.1E Makele | | E | | | X | X | | 200/500 | | | | | |
| DIRE DAWA/Dire Dawa Intl | 15 NINST 33 NPA | E E A/L A/L | | X | X | X | X# | 200/500 150 | | X X | X X | | |
| GAMBELA | | E | | | | | X | 200/500 | | | | | |
| LALIBELA | | E | | | | | X | 200/500 | | | | | |
| FRANCE | | | | | | | | | | | | | |
| SAINT-DENIS/Gillot (La Réunion) | 14 PA1 32 NINST | E A/L A/L | 14-II* | X | X X | X X | | 200/500 | | X X | X X | | |
| | 12 NINST 30 NPA | A/L A/L | | X | X | X | | | | X X | X X | | |
| GABON | | | | | | | | | | | | | |
| FRANCEVILLE/M-Vengue | 15 PA1 33 NPA | E A/L A/L | 15-II* | X | X X | X X | | 200/500 | | X X | X X | | |
| LIBREVILLE/Léon M-Ba | 16 PA1 34 NPA | E A/L A/L | 16-II* | X | X X | X X | | 200/500 | | X X | X X | | |
| PORT GENTIL/Port Gentil | 03 NPA 21 PA1 | E A/L A/L | 21-I | X | | X | | 200/500 | | X X | X X | | |

| Station | RWY Type | Function Fonction | ILS | | | | | Coverage Couverture | GNSS | | | REMARKS/OBSERVATIONS | |
|--------------------|----------------------|----------------------|--------|--------|-------------|--------|-----|--------------------------|------|--------|--------|----------------------|------|
| | | | | L | DME | VOR | NDB | | GBAS | SBAS | | | |
| | | | | | | | | | | NPA | APV 1 | | RIMS |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| GAMBIA | | | | | | | | | | | | | |
| BANJUL/Banjul Intl | 14 NPA 32 PA1 | E A/L A/L | 32-I | X X | X X X | X X | | 200/500 | | X X | X X | | |
| GHANA | | | | | | | | | | | | | |
| ACCRA/Kotoka Intl | 03 NPA 21 PA1 | E A/L A/L | 21-II* | X X | X X X | X X | | 200/500 | | X X | X X | | |
| KUMASI/Kumasi | 02 NPA 20 NPA | E A/L A/L | | X | X X | X X | X | 200/500 25/100 100 | | X X | X X | | |
| PAMPA/Pampa | | E | | | X | X | | 200/500 | | | | | |
| TAMALE/Tamale | 05 NPA 23 NPA | E A/L A/L | | X | X X | X X | | 200/500 | | X X | X X | | |
| GUINEA | | | | | | | | | | | | | |
| BOKE/Baralande | NINST | | | | | | | | | | | | |
| CONAKRY/Gbessia | 06 PA1 24 NPA | E A/L A/L | 06-II* | X X | X X X | X X | | 200/500 | | X X | X X | | |
| FARANAH/Badala | NPA | A/L | | X | | X | | 200/500 | | | | | |
| KANKAN/Diankana | 10 NPA 28 NINST | E A/L A/L | | X | | X | X | 150 | | X X | X X | | |
| LABE/Tata | 06 NINST 24 NINST | A/L A/L | | X | | X | | | | X X | X X | | |
| N-ZEREKORE/Konia | 18 NPA 36 NINST | A/L A/L | | X | | X | | | | X X | X X | | |

| Station | RWY Type | Function Fonction | ILS | | | | | Coverage Couverture | GNSS | | | REMARKS/OBSERVATIONS | |
|----------------------------|--------------------|----------------------|-------|--------|--------|--------|-----|------------------------|------|--------|--------|----------------------|------|
| | | | | L | DME | VOR | NDB | | GBAS | SBAS | | | |
| | | | | | | | | | | NPA | APV 1 | | RIMS |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| GUINEA-BISSAU | | | | | | | | | | | | | |
| BISSAU/Oswaldo Vieira Intl | 03 NPA 21 PA1 | E A/L A/L | 21-I | X | X X | X X | X | 200/500 | | X X | X X | | |
| KENYA | | | | | | | | | | | | | |
| ELDORET/Eldoret Intl | 08 PA2 26 NPA | A/L A/L | 08-II | X X | X X | X X | | 200/500 | | X X | X X | | |
| GARISSA | | E | | | X | X | | 200/500 | | | | | |
| LODWAR | | E E | | | X | X | X | 200/500 350 | | | | | |
| MANDERA | | E | | | X | X | | 200/500 | | | | | |
| MOMBASA/Moi Intl | 03 NPA 21 PA1 | E A/L A/L | 21-I | X X | X X | X X | | 200/500 | | X X | X X | | |
| NAIROBI/Jomo Kenyatta Intl | 06 PA-2 24 NPA | E A/L A/L | 06-II | X X | X X | X X | | 200/500 | | X X | X X | X | |
| NAKURU | | E | | | X | X | | 40/250 | | | | | |
| LESOTHO | | | | | | | | | | | | | |
| MASERU/Moshoeshoe I Intl | 04 NINST 22 PA1 | E A/L A/L | 22-I | X | X X | X X | X | 200/500 | | X X | X X | | |
| LIBERIA | | | | | | | | | | | | | |
| MONROVIA/Roberts Intl | 04 PA2 | E A/L | 04-II | X | X X | X X | | 200/500 | | X | X | | |

| Station | RWY Type | Function Fonction | ILS | | | | | Coverage Couverture | GNSS | | | REMARKS/OBSERVATIONS | |
|------------------------------|---------------------|----------------------|---------------|-------------|-------------|-------------|-----|------------------------|------|-------------|-------------|----------------------|------|
| | | | | L | DME | VOR | NDB | | GBAS | SBAS | | | |
| | | | | | | | | | | NPA | APV 1 | | RIMS |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| LIBYAN ARAB JAMAHIRIA | 22 NPA | A/L | | X | X | X | | | | X | X | | |
| BENGHAZI/Benina | 15 L PA1 33R NPA | E A/L X | 15L-II* | X X X | X X X | X X X | | 200/500 | | X X X | X X X | | |
| | 15R NPA 33L PA1 | A/L A/L | 33L-II* | | | | | | | X X | X X | | |
| BENI WALID | | E | | | | X | | 150/500 | | | | | |
| GHADAMES | | E E | | | X | X | X+ | 200/500 160 | | | | | |
| KUFRA | | E | | | | X | | 200/500 | | | | | |
| SARIR | | E | | | X | X | | 200/500 | | | | | |
| SEBHA/Sebha | 13 PA1 31 NPA | E A/L A/L | 13-I | | X X X | X X X | | 200/500 | | X X | X X | | |
| TRIPOLI/Tripoli Intl | 09 PA1 27 PA2 | E A/L A/L | 09-I 27-II | X | | X | | 50/250 | | X X | X X | | |
| ZAWIA | | E | | | | X | | 200/500 | | | | | |
| MADAGASCAR | | | | | | | | | | | | | |
| ANKAZOBE | | E | | | | | X | 200/500 | | | | | |
| ANTANANARIVO/Ivato | 11 PA1 29 NPA | E A/L A/L | 11-II* | X X X | X X X | X X X | | 200/500 | | X X | X X | | |
| ANTSIRANANA/Arrachart | 13 NPA 31 NINST | E A/L A/L | | X X | X X | X X | | 200/500 | | X X | X X | | |

| Station | RWY Type | Function Fonction | ILS | L | DME | VOR | NDB | Coverage Couverture | GNSS | | | REMARKS/OBSERVATIONS | |
|-------------------------|----------------------|----------------------|--------|-------------|-------------|-------------|-----|------------------------|------|-------------|-------------|----------------------|------|
| | | | | | | | | | GBAS | SBAS | | | |
| | | | | | | | | | | NPA | APV 1 | | RIMS |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| BAMAKO/Sénou | 06 PA1 24 NPA | E A/L A/L | 06-II* | X X X | X X X | X X X | | 200/500 | | X X X | X X X | X | |
| GAO/Gao | 07 NPA 25 NINST | E A/L A/L | | X | | X X | | 200/500 200/500 | | X X | X X | | |
| KAYES/Kayes | 08 NPA 26 NINST | E E A/L A/L | | X | | X X | X+ | 200/500 200 | | X X | X X | | |
| KIDAL/Kidal | 10 NPA 28 NINST | A/L A/L | | X | | X | | 200/500 | | X X | X X | | |
| MOPTI-BARBE/Mopti-Barbe | 05 NPA 23 NINST | A/L A/L | | X | | X | | 200/500 | | X X | X X | | |
| NIORO/Nioro | 08 NPA 26 NINST | A/L A/L | | X | | X | X+ | 200/500 50 | | X X | X X | | |
| TESSALIT | | E E | | | | X | X+ | 200/500 200 | | | | | |
| TOMBOUCTOU/Tombouctou | 07 NPA PA1 25 NPA | E A/L A/L | 07-I | X X X | X X X | X X X | | 200/500 | | X X | X X | | |
| MAURITANIA | | | | | | | | | | | | | |
| ATAR/Atar | 04 NPA 22 NINST | E E A/L A/L | | X | | X | X+ | 200/500 200 | | X X | X X | | |
| NEMA/Néma | 10 NINST 28 NPA | A/L A/L | | X | | X | | 200/500 | | X X | X X | | |
| NOUADHIBOU/Nouadhibou | | E | | | X | X | | 200/500 | | X | X | | |

| Station | RWY Type | Function Fonction | ILS | L | DME | VOR | NDB | Coverage Couverture | GNSS | | | REMARKS/OBSERVATIONS | |
|--|------------------|----------------------|---------|--------|--------|--------|-----|------------------------|------|--------|--------|----------------------|------|
| | | | | | | | | | GBAS | SBAS | | | |
| | | | | | | | | | | NPA | APV 1 | | RIMS |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| NOUAKCHOTT/Nouakchott | 03 PA1 21 NPA | A/L A/L | 03-II* | X X | X X | X X | X | 200 | | X X | X X | | |
| | 05 PA1 23 NPA | E A/L A/L | 05-II* | X X | X X | X X | | 200/500 | | X X | X X | | |
| ZOUERATE/Zouérate | 10 NPA 28 NPA | E A/L A/L | | X | | X X | | 200/500 | | X X | X X | | |
| MAURITIUS | | | | | | | | | | | | | |
| MAURITIUS/Sir Seewoosagur Ramgoolam Intl | 14 PA1 32 NPA | E E A/L A/L | 14-I | X X | X X | X X | X | 200/500 450 | | X X | X X | | |
| MOROCCO | | | | | | | | | | | | | |
| AGADIR/AI Massira | 10 NPA 28 PA1 | E A/L A/L | 28 -II* | X X | X X | X X | X | 200/500 | | X X | X X | | |
| AL HOCEIMA/Cherif AI Idrissi | 18 PA1 36 NPA | E A/L A/L | 18-II* | X X | X X | X X | | 100/500 | | X X | X X | | |
| CASABLANCA/Mohamed V | 17 NPA 35 PA2 | E A/L A/L | 35-II | X X | X X | X X | | 150/500 | | X X | X X | | |
| ERRACHIDA/Moulay Ali Cherif | 13 NPA 31 PA1 | E A/L A/L | 31-II* | X X | X X | X X | | 200/500 | | X X | X X | | |
| FES/Saïss | 10 NPA 28 PA1 | E A/L A/L | 28-II* | X X | X X | X X | | 150/500 | | X X | X X | | |
| MARRAKECH/Ménara | | E | | | X | X | | 150/500 | | | | | |

| Station | RWY Type | Function Fonction | ILS | L | DME | VOR | NDB | Coverage Couverture | GNSS | | | REMARKS/OBSERVATIONS | | |
|-----------------------|----------|----------------------|--------|--------|--------|--------|-----|------------------------|------|--------|--------|----------------------|------|--|
| | | | | | | | | | GBAS | SBAS | | | | |
| | | | | | | | | | | NPA | APV 1 | | RIMS | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | |
| OUARZAZATE/Ouarzazate | 10 PA1 | A/L | 10-II* | X | X | X | | 200/500 | | X | X | | | |
| | 28 NPA | A/L | | X | X | X | | | | X | X | | | |
| OUJDA/Angads | 12 NPA | E | | | X | X | | 150/500 | | X | X | | | |
| | 30 PA1 | A/L A/L | 30-II* | X X | X X | X X | | | | X X | X X | | | |
| RABAT/Salé | 06 PA1 | E | 06-II* | X | X | X | | 150/250 | | X | X | | | |
| | 24 NINST | A/L A/L | | | | | | | | X X | X X | | | |
| TANGER/Ibnou Batouta | 04 PA1 | E | 04-II* | X | X | X | | 150/500 | | X | X | | | |
| | 22 NPA | A/L A/L | | X X | X X | X X | | | | X X | X X | | | |
| TAN-TAN/Plage Blanche | 10 NPA | E | | | X | X | | 150/500 | | X | X | | | |
| | 28 PA1 | A/L A/L | 28-II* | X X | X X | X X | | | | X X | X X | | | |
| TETOUAN/Saniat Rimel | 14 NPA | E | | X | | X | | 150/500 | | X | X | | | |
| | 22 NINST | A/L A/L | | | | | | | | X X | X X | | | |
| TETOUAN/Saniat Rimel | 06 NPA | E | | | X | X | | 100/500 | | X | X | | | |
| | 24 NINST | A/L A/L | | X | X | X | | | | X X | X X | | | |
| MOZAMBIQUE | | | | | | | | | | | | | | |
| BEIRA/Beira | 12 PA1 | E | 12-II* | | X | X | | 200/500 | | | | | | |
| | 30 NPA | A/L A/L | | | X X | X X | | | | X X | X X | | | |
| | | | | | | X | X | | | | | | | |
| LIMPOPO | | E | | | | | X | 300 | | | | | | |
| LICHINGA | | E | | | X | X | | 200/500 | | | | | | |
| MAPUTO/Maputo Intl | 05 NPA | E | | | X | X | | 200/500 | | X | X | | | |
| | 23 PA1 | A/L A/L | 23-II* | | X X | X X | X | | | X X | X X | | | |
| NAMPULA | | E | | | X | X | | 200/500 | | | | | | |

| Station | RWY Type | Function Fonction | ILS | L | DME | VOR | NDB | Coverage Couverture | GNSS | | | REMARKS/OBSERVATIONS | | |
|----------------------------|--------------------|----------------------|---------|-------------|-------------|-------------|--------|------------------------|------|--------|--------|----------------------|------|--|
| | | | | | | | | | GBAS | SBAS | | | | |
| | | | | | | | | | | NPA | APV 1 | | RIMS | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | |
| QUELIMANE | | E | | | | X | | 200/500 | | | | | | |
| TETE | | E | | X | | X | | 200/500 | | | | | | |
| NAMIBIA | | | | | | | | | | | | | | |
| KEETMANSHOOP/ Keetmanshoop | 06 NPA 24 NPA | E A/L A/L | | | X X | X X | X X | 200/500 | | X X | X X | | | |
| WALVIS BAY/Walvis Bay | 09 NPA 27 NPA | E A/L A/L | | | X X | X X | X X | 200/500 | | X X | X X | | | |
| WINDHOEK/Hosea Kutako | 08 PA1 26 NPA | E A/L A/L | 08-II* | | X X X | X X X | X X | 200/500 | | X X | X X | X | | |
| NIGER | | | | | | | | | | | | | | |
| AGADES/Sud | 07 NPA 25 NINST | E A/L A/L | | X | | X X | | 200/500 | | X X | X X | | | |
| DIRKOU | | E | | | | X | | 200/500 | | | | | | |
| NIAMEY/Diori Hamani Intl | 09R PA1 27L NPA | E A/L A/L | 09R-II* | X X X | X X X | X X X | | 200/500 | | X X | X X | | | |
| ZINDER/Zinder | 06 NPA 24 NINST | E A/L A/L | | | | X X | | 200/500 | | X X | X X | | | |
| NIGERIA | | | | | | | | | | | | | | |
| ABUJA/Nnamdi Azikiwe | 04 NPA 22 PA1 | E A/L A/L | 22-II* | X | X X | X X | | 200/500 | | X X | X X | | | |
| BIDA | | E | | | X | X | | 200/500 | | | | | | |
| CALABAR/Calabar | | E | | | X | X | | 200/500 | | | | | | |

| Station | RWY Type | Function Fonction | ILS | L | DME | VOR | NDB | Coverage Couverture | GNSS | | | REMARKS/OBSERVATIONS | |
|----------------------------------|--------------------|----------------------|--------|-------------|-------------|-------------|-----|-------------------------|------|-------------|-------------|----------------------|------|
| | | | | | | | | | GBAS | SBAS | | | |
| | | | | | | | | | | NPA | APV 1 | | RIMS |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| KIGALI/Grégoire Kayibanda | 10 NPA 28 PA1 | E A/L A/L | 28-II* | X X X | X X X | X X X | | 200/500 | | X X X | X X X | | |
| SÃO TOMÉ AND PRINCIPE | | | | | | | | | | | | | |
| SÃO TOMÉ/São Tomé | 11 PA1 29 NPA | E A/L A/L | 11-II* | X X X | X X X | X X X | | 200/500 | | X X X | X X X | | |
| SENEGAL | | | | | | | | | | | | | |
| CAP SKIRING/Cap Skiring | 15 NINST 33 NPA | A/L A/L | | X | | | | 25/100 | | X X | X X | | |
| DAKAR/Léopold Sédar Senghor Intl | 18 NPA 36 PA2 | E A/L A/L | 36-II | X X X | X X X | X X X | | 200/500 | | X X X | X X X | X | |
| SAINT-LOUIS/Saint-Louis | 18 NPA 36 NINST | A/L A/L | | X X | | | | 25/100 | | X X | X X | | |
| TAMBACOUNDA/Tambacounda | 06 NPA 24 NPA | E A/L A/L | | X X | | X X X | | 200/500 | | X X X | X X X | | |
| ZIGUINCHOR/Ziguinchor | 10 NINST 28 NPA | E A/L A/L | | X | | X | | 200/500 | | X X | X X | | |
| SEYCHELLES | | | | | | | | | | | | | |
| MAHE/Seychelles Intl | 13 NPA 31 PA1 | E A/L A/L | 31-II* | | X X X | X X X | X | 200/500 (N+E) 150 | | X X X | X X X | X | |

| Station | RWY Type | Function Fonction | ILS | | | | | Coverage Couverture | GNSS | | | | REMARKS/OBSERVATIONS | |
|-----------------------------|----------------------|----------------------|--------|---|-------------|-------------|-----|------------------------|------|--------|--------|------|----------------------|--|
| | | | | L | DME | VOR | NDB | | GBAS | SBAS | | | | |
| | | | | | | | | | | NPA | APV 1 | RIMS | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | |
| PRASLIN | | E | | | X | X | | 200/500 | | | | | | |
| SIERRA LEONE | | | | | | | | | | | | | | |
| FREETOWN/Lungi | 12 NPA 30 PA1 | E A/L A/L | 30-II* | X | X X X | X X X | | 200/500 | | X X | X X | | | |
| SOMALIA | | | | | | | | | | | | | | |
| BERBERA/Berbera | 05 NINST 23 NINST | A/L A/L | | | | | | | | X X | X X | | | |
| BURAO/Burao | 13 NINST 31 NINST | A/L A/L | | | | | | | | X X | X X | | | |
| HARGEISA/Hargeisa | 06 NPA 24 NPA | E E A/L A/L | | | X X | X X | X+ | 200/500 150 | | X X | X X | | | |
| KISIMAYU/Kisimayu | 05 NPA 23 PA1 | E E A/L A/L | 23-II* | | X X | X X | X+# | 200/500 200 | | X X | X X | | | |
| MOGADISHU/Mogadishu | 05 NPA 23 PA1 | E A/L A/L | 23-II* | | X X X | X X X | | 200/500 | | X X | X X | | | |
| SOUTH AFRICA | | | | | | | | | | | | | | |
| ALEXANDER BAY/Alexander Bay | 01 NPA 19 NPA | A/L NPA | | | X X | X X | | 40/250 | | | | | | |
| BLOEMFONTEIN/Bloemfontein | 02 NPA PA1 20 NPA | E A/L A/L | 02-I | X | X X X | X X X | | 200/500 | | X X | X X | | | |
| | 12 NINST 30 NINST | A/L A/L | | | | | | | | X X | X X | | | |

| Station | RWY Type | Function Fonction | ILS | L | DME | VOR | NDB | Coverage Couverture | GNSS | | | REMARKS/OBSERVATIONS | |
|-------------------------------|----------------------|----------------------|------------------|--------|-------------|-------------|-----|------------------------|------|-------------|-------------|----------------------|------|
| | | | | | | | | | GBAS | SBAS | | | |
| | | | | | | | | | | NPA | APV 1 | | RIMS |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| CAPE TOWN/Cape Town | 01 PA1 19 PA2 | E A/L A/L | 01-II* 19-III | | X X X | X X X | | 200/500 | | X X X | X X X | X | |
| DURBAN/Durban | 06 PA1 24 PA1 | E A/L A/L | 06-II* 24-II* | X | X X X | X X X | | 200/500 | | X X X | X X X | | |
| GATEWAY | | | | | X | X | | 200/500 | | | | | |
| GREEFSWALD | | E | | | X | X | | 200/500 | | | | | |
| HARTEBEESSPOORTDAM | | E | | | | X | | 200/500 | | | | | |
| JOHANNESBURG/Johannesburg | 03L PA2 21R NPA | E A/L A/L | 03L-II | X X | X X | X X | | 200/500 | | X X | X X | X | |
| | 03R PA2 21L PA2 | A/L A/L | 03R-II 21L-II | X | | | | | | X X | X X | | |
| JOHANNESBURG/Rand | 35 NPA | A/L | | X | | | | | | | | | |
| LANSERIA/Lanseri | 06L NPA 24R NINST | A/L | | X | | X | | 25/100 | | X X | X X | | |
| MAFIKENG/Mafikeng | 04 PA1 22 NINST | A/L A/L | 04-I | X | X X | X X | | | | X X | X X | | |
| NELSPRUIT/Nelspruit | 04NINST 22 NINST | A/L A/L | | X | X X | X X | | | | X X | X X | | |
| PIETERSBURG/Gateway | 01 NINST 19 NINST | E A/L A/L | | X | X X | X X | | 200/500 | | X X | X X | | |
| PORT ELIZABETH/Port Elizabeth | 08 PA1 26 PA1 | A/L A/L | 08-II* | | X X | X X | | | | X X | X X | | |
| | 17 NINST 35 NINST | A/L A/L | | | | | | | | X X | X X | | |

| Station | RWY Type | Function Fonction | ILS | L | DME | VOR | NDB | Coverage Couverture | GNSS | | | REMARKS/OBSERVATIONS | |
|---|------------------------|----------------------|-------|--------|--------|--------|-----|------------------------|------|--------|--------|----------------------|------------------|
| | | | | | | | | | GBAS | SBAS | | | |
| | | | | | | | | | | NPA | APV 1 | | RIMS |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| UPINGTON/Upington | 17 NINST 35 NPA | E A/L A/L | 04-I | | X X | X X | | 200/500 | | X X | X X | | |
| SPAIN | | | | | | | | | | | | | |
| GRAN CANARIA/Gran Canaria, Canary Is. | 03L PA2 21R NPA | E A/L A/L | 03L-I | X X | X X | X X | X | 200/500 | | X X | X X | X | <u>ECAC RIMS</u> |
| | 03R NINST 21L NINST | A/L A/L | | | | | | | | X X | X X | | |
| HIERRO/Hierro, Canary Is. | 16 NPA 34 NINST | E A/L A/L | | X | | | X | 200/500 | | X X | X X | | |
| LA PALMA I./La Palma, Canary Is. | 01 NPA 19 NINST | E A/L A/L | | X | X | | X | 200/500 40 | | X X | X X | | |
| LANZAROTE/Lanzarote, Canary Is. | 04 PA1 22 NPA | E A/L A/L | 04-I | X X | X X | X X | X | 200/500 | | X X | X X | | |
| MELILLA/Melilla | 15 NPA 33 NINST | A/L A/L | | | X | X | | 200/500 | | X X | X X | | |
| FUERTEVENTURA/Fuerteventura, Canary Is. | 01 PA1 19 NPA | E A/L A/L | 01-I | X X | X X | X X | X | 200/500 40 | | X X | X X | | |
| TENERIFE NORTE/Los Rodeos, Canary Is. | 12 NPA 30 NPA | E E A/L A/L | 30-I | X X | X X | X X | X | 200/500 200 | | X X | X X | | |
| TENERIFE SUR/Reina Sofia, Canary Is. | 08 PA1 26 NPA | E A/L A/L | 08-I | X X | X X | X X | X | 40/250 | | X X | X X | | |

| Station | RWY Type | Function Fonction | ILS | L | DME | VOR | NDB | Coverage Couverture | GNSS | | | | REMARKS/OBSERVATIONS | |
|----------------------------|----------------------|----------------------|--------|--------|--------|--------|-----|------------------------|------|--------|--------|------|----------------------|--|
| | | | | | | | | | GBAS | SBAS | | | | |
| | | | | | | | | | | NPA | APV 1 | RIMS | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | |
| SUDAN | | | | | | | | | | | | | | |
| EL FASHER | | E E | | | X | X | X+ | 200/500 200 | | | | | | |
| EL OBEID | | E | | | | X | | 200/500 | | | | | | |
| GENEINA | | E E | | | | X | | 200/500 200 | | | | | | |
| JUBA/Juba | | E E | | | X | X | X+ | 200/500 200 | | | | | | |
| | 13 PA1 31 NINST | A/L A/L | 13-II* | | X | X | | | | X X | X X | | | |
| KARINA | | E E | | | X | X | X+ | 200/500 200 | | | | | | |
| KASSALA/Kassala | | E E | | | X | X | X+ | 200/500 100 | | | | | | |
| | 02 NINST 20 NINST | A/L A/L | | | X | X | X+ | 100 | | X X | X X | | | |
| KHARTOUM/Khartoum | | E A/L A/L | 18-I | X X | X X | X X | | 200/500 | | X X | X X | | | |
| MALAKAL | | E E | | | X | X | X+ | 200/500 200 | | | | | | |
| PORT SUDAN/Port Sudan Intl | | E E | | | X | X | X+ | 200/500 150 | | | | | | |
| | 18 NPA 36 PA1 | A/L A/L | 36-I | X X | X X | X X | | | | X X | X X | | | |
| SWAZILAND | | | | | | | | | | | | | | |
| MANZINI/Matsapha | | E A/L A/L | | X | X X | X X | | 200/500 | | X X | X X | | | |

| Station | RWY Type | Function Fonction | ILS | L | DME | VOR | NDB | Coverage Couverture | GNSS | | | REMARKS/OBSERVATIONS | |
|----------------------------|----------------------|----------------------|--------|---|--------|--------|-----|------------------------|------|--------|--------|----------------------|------------------|
| | | | | | | | | | GBAS | SBAS | | | |
| | | | | | | | | | | NPA | APV 1 | | RIMS |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| TOGO LOME/Tokoin | 05 NPA 23 PA1 | E A/L A/L | 23-II* | X | X X | X X | | 200/500 | | X X | X X | | |
| NIAMTOUGOU/Niamtougou | 03 PA1 21 NPA | E A/L A/L | 03-II* | X | X X | X X | | 200/500 | | X X | X X | | |
| TUNISIA | | | | | | | | | | | | | |
| BEN AOUN | | E | | | | X | | 200/500 | | | | | |
| CAP BON | | E | | | | X | | 200/500 | | | | | |
| DJERBA/Zarzis | 09 PA1 27 NPA | E A/L A/L | 09-II | X | X X | X X | | 200 /500 150 | | X X | X X | X | <u>ECAC RIMS</u> |
| EL-BORMA | | E | | | | X | | 200/500 | | | | | |
| GAFSA/Ksar | 05 NPA 23 NPA | E A/L A/L | | | X X | X X | | 200/500 | | | X X | X X | |
| MONASTIR/Habib Bourguiba | 07 PA1 25 NPA | E A/L A/L | 07-II | X | X X | X X | | 200/500 | | | X X | X X | |
| SFAX/Thyna | 15 NPA PA1 33 NPA | E A/L A/L | 15-I | | | X X | | 200/500 | | | X X | X X | |
| TABARKA/ 7 Novembre | 09 NINST 27 PA1 | E A/L A/L | 27-II | | X X | X X | X | 200/500 200/500 | | | X X | X X | |
| TOZEUR/Nefta | 09 PA1 27 NPA | E A/L A/L | 09-II | X | X X | X X | | 200/500 | | | X X | X X | |
| TUNIS/Carthage | | E | | | X | X | | 200 /500 | | | | | |

| Station | RWY Type | Function Fonction | ILS | L | DME | VOR | NDB | Coverage Couverture | GNSS | | | REMARKS/OBSERVATIONS | |
|------------------------------------|--------------------|----------------------|--------|--------|--------|--------|-----|------------------------|------|--------|--------|----------------------|------|
| | | | | | | | | | GBAS | SBAS | | | |
| | | | | | | | | | | NPA | APV 1 | | RIMS |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| | 01 NPA 19 PA1 | A/L A/L | 19-II | X X | X X | X X | | | | X X | X X | | |
| | 11 NPA 29 PA1 | A/L A/L | 29-II | X X | X X | X X | | 50 | | X X | X X | | |
| UGANDA | | | | | | | | | | | | | |
| ENTEBBE/ Entebbe Intl | 17 PA1 35 NPA | E A/L A/L | 17-II* | X X | X X | X X | | 200/500 | | X X | X X | | |
| UNITED REPUBLIC OF TANZANIA | | | | | | | | | | | | | |
| DAR-ES-SALAAM/Dar-es-Salaam | 05 PA1 23 NPA | E E A/L A/L | 05-II* | X X | X X | X X | X | 200/500 350 | | X X | X X | | |
| DODOMA | | E E | | | X X | X X | X+ | 200/500 150 | | | | | |
| KILIMANJARO/Kilimanjaro Intl | 09 PA1 27 NPA | E A/L A/L | 09-I | X X | X X | X X | | 200/500 | | X X | X X | | |
| MBEYA | | E E | | | X X | X X | X+ | 200/500 100 | | | | | |
| MWANZA | | E | | | X X | X X | | 200/500 | | | | | |
| ZANZIBAR/Zanzibar | 18 NINST 36 NPA | E A/L A/L | | | X X | X X | X+ | 200/500 100 | | X X | X X | | |
| WESTERN SAHARA | | | | | | | | | | | | | |
| EL AAIUN/EI Aaiun | 04NPA 22 PA1 | E A/L A/L | 03-I | | X X | X X | | 200/500 | | X X | X X | | |

| Station | RWY Type | Function Fonction | ILS | L | DME | VOR | NDB | Coverage Couverture | GNSS | | | REMARKS/OBSERVATIONS | |
|-------------------------------|----------------------|----------------------|--------|--------|-------------|-------------|-----|--------------------------|------|--------|--------|----------------------|------|
| | | | | | | | | | GBAS | SBAS | | | |
| | | | | | | | | | | NPA | APV 1 | | RIMS |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| SMARA/Smara | 17 NINST 35 NINST | A/L A/L | | | | X | | | | X | X | | |
| VILLA CISNEROS/Villa Cisneros | 04 NINST 22 NPA | E A/L A/L | | X | X X X | X X X | | 200/500 | | X X | X X | | |
| ZAMBIA | | | | | | | | | | | | | |
| KAOMA MONGU | | E E | | | | X | X+ | 350 200/500 | | | | | |
| KAPIRI | | E | | | | | X+ | 350 | | | | | |
| WEST TWO SOLWEZI | | E | | | | X | | 200/500 | | | | | |
| LIVINGSTONE/Livingstone Intl | 11 NPA 29 NPA | E A/L A/L | 44-I | | X X X | X X X | | 200/500 | | X X | X X | | |
| LUSAKA/Lusaka Intl | 10 PA1 28 NPA | E A/L A/L | 10-II* | X X | X X X | X X X | | 200/500 200/500 40 | | X X | X X | | |
| MFUWE/Mfuwe | 08 NPA 26 NPA | E A/L A/L | | | X X X | X X X | | 200/500 | | X X | X X | | |
| NDOLA/Ndola | 10L NPA 28R NPA | E A/L A/L | 10L-I | | X X X | X X X | | 200/500 200/500 | | X X | X X | | |
| ZIMBZABWE | | | | | | | | | | | | | |
| BULAWAYO/Bulawayo | 13 NPA 31 NPA | E A/L A/L | 13-II* | X | X X X | X X X | | 200/500 200/500 | | X X | X X | | |
| FLYDE | | E | | | X | X | | 200/500 | | | | | |

| Station | RWY Type | Function Fonction | ILS | L | DME | VOR | NDB | Coverage Couverture | GNSS | | | | REMARKS/OBSERVATIONS | |
|-------------------------------|--------------------|----------------------|------------------|---|-------------|-------------|-----|------------------------|------|--------|--------|------|----------------------|--|
| | | | | | | | | | GBAS | SBAS | | | | |
| | | | | | | | | | | NPA | APV 1 | RIMS | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | |
| GOKWE | | E | | | | X | | 200/500 | | | | | | |
| HARARE/Harare | 05 PA1 23 PA1 | E A/L A/L | 05-II* 23-II* | X | X X X | X X X | | 200/500 200/500 | | X X | X X | | | |
| HWANGE | | E | | | | X | | 200/500 | | | | | | |
| MASVINGO | | E | | | X | X | | 200/500 | | | | | | |
| VICTORIA FALLS/Victoria Falls | 12 PA1 30 NINST | E A/L A/L | 12-II* | X | | | X | 200/500 | | X X | X X | | | |

(CNSTBL_3.WPD)

8. World area forecast system (WAFS)

(FASID Tables MET 5, MET 6 and MET 7)

8.1 FASID Table MET 5 sets out the [AFI, ASIA/PAC, CAR/SAM, EUR, MID, NAT] Regions requirements for WAFS products: ~~upper wind and temperature and significant weather (SIGWX) charts, and the gridded binary (GRIB) data, and abbreviated plain language SIGWX, forecasts~~ to be provided by WAFS [London, Washington].

[APIRG/12, Con. 12/32]

8.2 ~~All the WAFS products should be prepared by WAFS Washington for fixed valid times of 00, 06, 12 and 18 UTC.~~

~~[CAR/SAM/3, Rec. 8/5]~~

Editorial Note.— Paragraph is redundant as it repeats Annex 3, 3.2.3.

8.32 The levels for which **forecasts of upper-air wind and temperature and SIGWX in charts form** are to be provided by the WAFS [London, Washington] and the areas to be covered by these charts ~~and the GRIB data~~ are indicated in FASID Table MET 5.

Note.— *WAFSs will continue to issue forecasts of upper-air wind and temperature and of SIGWX in chart form until 1 July 2005.*

[APIRG/12, Con. 12/32]

8.43 FASID Table MET 6 sets out the ~~WAFS responsibility~~ **responsibilities of WAFSs London and Washington** for the production of ~~SIGWX WAFS forecasts and upper wind and temperature charts for the areas of coverage indicated, and GRIB data.~~ Each WAFS is responsible for the routine production, and dissemination by satellite broadcast, of charts for the areas of coverage listed. For back-up purposes, each WAFS should have the capability to produce ~~SIGWX WAFS forecasts for all~~ **the required** areas of coverage.

[APIRG/12, Con. 12/32]

~~—————*Note.*— *The responsibilities of RAFCs Brasilia, Buenos Aires, Dakar, Las Palmas, Melbourne, Nairobi, New Delhi, Tokyo and Wellington will be progressively transferred to the WAFS London and WAFS Washington in accordance with AFI/7 Recommendation 7/10, ASIA/PAC Air Navigation Planning and Implementation Regional Group (APANPIRG) Recommendation 7/19 and CAR/SAM Regional Planning and Implementation Group (GREPECAS) Conclusion 8/24.*~~

8.56 The projection of the **WAFS forecasts in charts form** and their areas of coverage should be as indicated in FASID Charts MET 4, MET 5 and MET 6 associated with FASID Table MET 6; their scale should be $1:20 \times 10^6$, true at 22.5° in the case of charts in the Mercator projection, and true at 60° **latitude** in the case of charts in the polar stereo-graphic projection.

[APIRG/12, Con. 12/32]

Note.— *WAFSs will continue to issue forecasts of upper-air wind and temperature and of SIGWX in chart form until 1 July 2005.*

8.65 WAFS products should be disseminated by WAFC [London, Washington] using the [satellite distribution system for information relating to air navigation (SADIS), international satellite communications system (ISCS1, ISCS2)] covering the reception area shown in FASID Chart COM 7 CNS [4]. To fulfil the requirements of long distance flights, transmission of WAFS products should be completed not later than [11] hours before validity time.
[APIRG/12, Con. 12/32]

8.76 The amendment service to the ~~WAFS products~~ **SIGWX forecasts** issued by WAFCs London and Washington should be by means of ~~abbreviated plain language messages~~ **amended BUFR files** disseminated through [SADIS, ISCS1, ISCS2].
[APIRG/12, Con. 12/32]

8.87 Each State should make the necessary arrangements to receive and make full operational use of WAFS products ~~issued~~ **disseminated** by WAFC [London, Washington]. FASID Table MET 7 ~~provides the status of~~ **lists the** authorized access by **users of the** [SADIS, ISCS1, ISCS2] ~~users to the~~ satellite broadcast and location of the operational VSATs.
[APIRG/12, Con. 12/32]

World area forecast system (WAFS)

(FASID Tables MET 5, MET 6 and MET 7

FASID Charts MET 4, MET 5 and MET 6)

8. FASID Table MET 5 sets out the [AFI, ASIA/PAC, CAR/SAM, EUR, MID, NAT] Regions requirements for WAFS products: upper wind and temperature and significant weather (SIGWX) charts, and the gridded binary (GRIB) data, and abbreviated plain language SIGWX forecasts, to be provided by WAFS [London, Washington].

9. FASID Table MET 6 sets out the ~~WAFS responsibility~~ responsibilities of WAFCs London and Washington for the production of SIGWX WAFS forecasts and upper wind and temperature charts for the areas of coverage indicated, and the GRIB data. ~~WAFS~~The maximum areas of coverage of WAFS forecasts in chart form are shown on FASID Charts MET 4, MET 5 and MET 6.

Note.— WAFCs will continue to issue forecasts of upper-air wind and temperature and of SIGWX in chart form until 1 July 2005.

10. FASID Table MET 7 ~~provides the status of~~ lists the authorized access by users of the [SADIS, ISCS1, ISCS2] ~~users to the~~ satellite broadcast and location of the operational VSATs. The table is included in the FASID for information purposes and kept up-to-date by the Regional Offices concerned.

FASID TABLE MET 5 — REQUIREMENTS FOR WAFS PRODUCTS*EXPLANATION OF THE TABLE**Column*

1. WAFS products required by the [AFI, ASIA/PAC, CAR/SAM, EUR, MID, NAT] States, to be provided by WAFS [London, Washington].
2. Area of coverage required for the ~~upper wind and temperature and SIGWX charts and other WAFS data~~ **forecasts**, to be provided by WAFS [London, Washington].

| PRODUCT-FORECAST REQUIRED | AREAS REQUIRED |
|---|---------------------------|
| 1 | 2 |
| W/T CHART > FL 390 | [A, B1, E, F, G, H, I] |
| “ ” “ ” FL 390 | [A, B1, E, F, G, H, I] |
| “ ” “ ” FL 340 | [A, B1, E, F, G, H, I] |
| “ ” “ ” FL 300 | [A, B1, E, F, G, H, I] |
| “ ” “ ” FL 240 | [A, B1, E, F, G, H, I] |
| “ ” “ ” FL 180 | [A, B1, E, F, G, H, I] |
| “ ” “ ” FL 100 | [A, B1, E, F, G, H, I] |
| “ ” “ ” FL 50 | [A, B1, E, F, G, H, I] |
| SWM/SWH CHART (FL 100 - 450 250 - 630) | [A, B1, E, F, G, H, I, J] |
| SWM CHART (FL 100 -) | [NIL or ...] |
| SIGWX forecasts in the BUFR code form | GLOBAL |
| Upper-air wind and temperature forecasts in the GRIB-data code form | GLOBAL |
| SIGWX forecasts in abbreviated plain language | YES |

Note 1.— SWM charts are provided for limited geographical areas as determined by regional air navigation agreement. [They are not currently provided by WAFC [London, Washington]]

Note 2.— WAFCs will continue to issue forecasts of upper-air wind and temperature and of SIGWX in chart form until 1 July 2005.

**FASID TABLE MET 6 —
RESPONSIBILITIES OF THE WORLD AREA FORECAST CENTRES**

EXPLANATION OF THE TABLE

Column

- 1 Name of the world area forecast centre (WAFC).
- 2 Area of ~~responsibility for the preparation~~ **coverage** of significant weather (SIGWX) forecasts **in the BUFR code form prepared or relayed** by the WAFC in Column 1.
- 3 Area of coverage of the SIGWX **forecasts in charts form** prepared or relayed by the WAFC in Column 1.
- ~~5~~**4** Area of coverage of **upper-air wind and temperature forecasts in the GRIB-data code form prepared-issued** by the WAFC in Column 1.
- ~~4~~**5** Area of coverage of the upper-**air** wind and temperature **forecasts in charts form** prepared by the WAFC in Column 1.

| WAFc | Areas of coverage of | | | |
|------------|--|---|--|--|
| | SIGWX forecasts | | Upper-air wind and temperature forecasts | |
| | Area of responsibility In the BUFR code form | Areas of coverage of SIGWX In chart form ² | In the GRIB data code form | Areas of coverage of In charts form ² |
| 1 | 2 | 3 | 54 | 45 |
| London | global ¹ | [B, E, G, H, K, EUR and MID (FL 100 - 450), C and D] | global ¹ | [B, C, D, E, G, H and K] |
| Washington | global ¹ | [A, B1, H, J, E, G, I and F] | global ¹ | [A, B1, E, F, G, H, I and J] |

Notes corresponding to superscripts in FASID Table MET 6 above

1) For back-up purposes

2) WAFcs continue to issue forecasts of upper-air wind and temperature and of SIGWX in chart form until 1 July 2005.

~~— 2) Currently produced by RAFC Tokyo/Actualmente producido por el RAFC de Tokio~~

~~— 3) Parts of area D currently produced by RAFCs Dakar, Nairobi and New Delhi and relayed to WAFc London for uplink on SADIS/Partes del área D son actualmente producidas por los RAFC de Dakar, Nairobi y Nueva Delhi y retransmitidos al WAFc de Londres para enlace ascendente por el SADIS~~

~~— 4) Currently produced by RAFC Melbourne and relayed to WAFc Washington for uplink on the international satellite communications system (ISCS)/Actualmente producidos por el RAFC de Melbourne y retransmitidos al WAFc de Washington para enlace ascendente por el sistema internacional de comunicaciones por satélite (ISCS)~~

~~— 5) Currently produced by RAFC Brasilia (area limited by 12° N - 130° W; 12° N - 25° W; 35° S - 25° W; 35° S - 130° W) and RAFC Buenos Aires (stereographic polar plane limited by 7.85° S - 95.98° W; 11.48° S - 41.57° W; 59.91° S - 0.22° E; 39.25° S - 136.56° W)/Actualmente producidos por el RAFC de Brasilia (área limitada por los 12° N - 130° W; 12° N - 25° W; 35° S - 25° W; 35° S - 130° W) y por el RAFC de Buenos Aires (plano estereográfico polar limitado por 7.85° S - 95.98° W; 11.48° S - 41.57° W; 59.91° S - 0.22° E; 39.25° S - 136.56° W)~~

WAFS MAXIMUM AREAS OF COVERAGE – MERCATOR PROJECTION

FASID Chart MET 4

WAFS MAXIMUM AREAS OF COVERAGE – POLAR STEREOGRAPHIC PROJECTION

FASID Chart MET 5

MAXIMUM AREAS OF COVERAGE – POLAR STEREOGRAPHIC PROJECTION

FASID Chart MET 6

FASID TABLE MET 7 —
~~STATUS OF AUTHORIZED ACCESS BY AUTHORIZED USERS OF THE~~ [SADIS, ISCS1, ISCS2]
~~USERS TO THE SATELLITE BROADCAST AND LOCATION OF THE OPERATIONAL VSATs~~

EXPLANATION OF THE TABLE

Column

1 Name of the State or territory.

2 User of the satellite broadcast. Abbreviations used:

CAA — civil aviation authority

NMS — national meteorological service

O — other than the civil aviation authority or the national meteorological service.

3 Location of VSAT: town and, where applicable, aerodrome to be indicated.

~~4 Indication whether the access to the satellite broadcast has been approved:~~

~~X — yes~~

~~[blank] — no.~~

54 Indication whether the equipment is operational:

2w — two-way VSAT operational

1w — one-way VSAT operational

[blank] — no.

Editorial Note.— Column 4 considered redundant and proposed therefore for deletion.

| [satellite distribution system for information relating to air navigation (SADIS) , International Satellite Communication System (ISCS1, ISCS2)] provided by the [United Kingdom, United States] | | | | |
|--|-----------------------------|------------------|----------------------------|-----------------------|
| State/Territory | User of satellite broadcast | Location of VSAT | Access approved | Equipment operational |
| 1 | 2 | 3 | 4 | 5 |
| | | | ✗ | |
