

Table CNS 4A - SURVEILLANCE

APPENDIX A

*EXPLANATION OR THE TABLE**Column*

1	Name of country and location of radar head facility or FIR
2	Area of routing
3	Air Traffic Services Unit served by the facility or FIR
4	PSR - Primary Surveillance Radar
5	Coverage of Primary Surveillance Radar in nautical miles
6	SSR - Secondary Surveillance Radar and Modes implemented will be indicated within brackets, namely Modes A, C and S
7	Coverage of Secondary Surveillance Radar in nautical miles
8	ADS-B - Automatic Dependent Surveillance Broadcast *
9	ADS-C - Automatic Dependent Surveillance Contract
10	Remarks

Note:

The following codes are used in columns 4, 6, 8-10

I - Required and implemented. For column 6,

I stands for implementation using conventional SSR, while

MI stands for implementation using Monopulse SSR.

X - Required but implementation status not determined

N - Required but not implemented

A - existing facility provided to supplement or substitute the requirement

F - Future Plan

< - Year: planned commissioning year to be used as appropriate in conjunction with "F" and "N"

> - Year: planned commissioning year to be used as appropriate in conjunction with "A" and "I"

* Under development

State/Location Etat/Emplacement	AR	ATS unit served Organe ATS desservi	PSR	Coverage/ Couverture of/du PSR (NM)	SSR (A/C/S)	Coverage/ Couverture of/du SSR (NM)	ADS-B*	ADS- C	Remarks/ Remarques
1	2	3	4	5	6	7	8	9	10
ALGERIA	AR4 AR7								
Alger		Alger ACC	F<- 2003		F<- 2003			F<- 2003	MSSR planned/prévu
Annaba		Alger ACC			F<- 2003				
El Bayad		Alger ACC			F<- 2003				
El Oued		Alger ACC			F<- 2003				
Oran	Alger ACC				F<- 2003				
ANGOLA	AR2 AR4 AR8								
Luanda		Luanda ACC			N			N	
BOTSWANA	AR4 AR8								
Gaborone		Gaborone ACC			A<- 2001	250			N
Maun		Gaborone ACC			A<- 2001	250			

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1	2	3	4	5	6	7	8	9	10
CAPE VERDE Sal	AR1	Sal ACC						F<- 2004	
CHAD/TCHAD N'Djamena	AR4 AR9	N'Djamena ACC			N<- 2002			N<- 2002	
CONGO Brazzaville	AR4 AR5	Brazzaville ACC			F<- 2003			F<- 2003	
CONGO (Dem. Rep. of) Kinshasa	AR4	Kinshasa ACC			N			N	
COTE D'IVOIRE Abidjan	AR5	Abidjan ACC			X			N	
EGYPT Cairo 300715N 312354E 300621N 312439E 300621N 312439E	AR3 AR7	Cairo ACC Cairo APP Cairo APP/TMA	I I F<20 02	200 70 60	MI(A/C) I(A/C) MF(A/ C)	250 100 250		I	

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1	2	3	4	5	6	7	8	9	10
Hurghada 270319N 335025E	AR3	Cairo ACC	I		MI(A/C)	250			
Mersa Matruh 311810N 270831E		Cairo ACC			MI(A/C)	250			
Aswan 235830N 324636E		Cairo ACC			MI(A/C)	250			
Asyut 270332N 310108E		Cairo ACC	I	200	MI(A/C)	2550			
Luxor		Luxor APP/TMA	I	60	MI(A/C)	250			
Sharm El Sheikh		Sharm El Sheikh APP/TMA	I	60	MI(A/C)	250			
ERITREA Asmara 151702N 385340E	AR3 AR9	Asmara ACC			A/C/S	250		N	
ETHIOPIA Addis Ababa	AR3	Addis Ababa ACC			F<- 2005			F<- 2002	
GHANA Accra	AR5	Accra ACC	A	60	I(A/C)	250		N	
Tamale		Accra ACC			I(A/C)	250			

State/Location Etat/Emplacement	AR	ATS unit served Organe ATS desservi	PSR	Coverage/ Couverture of/du PSR (NM)	SSR (A/C/S)	Coverage/ Couverture of/du SSR (NM)	ADS-B*	ADS- C	Remarks/ Remarques
1	2	3	4	5	6	7	8	9	10
GUINEA/ LIBERIA/ SIERRA LEONE Robertsfield	AR5	Roberts FIC/ACC						N	
KENYA Mombasa Nairobi	AR3	Mombasa APP Nairobi ACC Nairobi APP	A A		I(A/C)	200 200 200		N	
LIBYAN ARAB JAMAHIRIYA Tripoli	AR3 AR4 AR7	Tripoli ACC						N	
MADAGASCAR Antananarivo	AR3 AR10	Antananarivo ACC						I-- 2001	
MALAWI Lilongwe	AR8	Lilongwe ACC						N	
MAURITIUS Mauritius	AR3 AR10	Mauritius ACC						N<- 2001	

State/Location Etat/Emplacement	AR	ATS unit served Organe ATS desservi	PSR	Coverage/ Couverture of/du PSR (NM)	SSR (A/C/S)	Coverage/ Couverture of/du SSR (NM)	ADS-B*	ADS- C	Remarks/ Remarques
1	2	3	4	5	6	7	8	9	10
MOROCCO Casablanca 332124.12N 073642.99W Agadir 301908.96N 092440.75W Ifrane 333151.87N 050926.95W Safi 321904.94N 091444.078W	AR1 AR6 AR7	Casablanca ACC Casablanca APP	I	60	MI(A/C)	250		N	
MOZAMBIQUE Beira	AR8	Beira ACC						N	
NAMIBIA Windhoek	AR4 AR8	Windhoek ACC						N	
NIGER Niamey	AR4 AR9	Niamey ACC						F<- 2004	
NIGERIA Kano	AR4 AR9 AR5	Kano ACC Kano APP			F(A/C) I(A/C)	250 150		F<- 2005	

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1	2	3	4	5	6	7	8	9	10
Lagos		Lagos ACC Lagos APP	I	100	F<2003 I(A/C)	250 150		F<- 2005	
SENEGAL Dakar	AR1 AR9	Dakar ACC						F<- 2002	
SEYCHELLES Seychelles	AR3 AR10	Seychelles ACC						N	
SOMALIA Mogadishu	AR3	Mogadishu FIC						N	
SOUTH AFRICA Cape Town	AR2 AR4 AR8 AR10	Cape Town ACC Cape Town APP	I		I(A/C)			N	
Johannesburg		Johannesburg ACC Johannesburg APP Johannesburg Oceanic	I		I(A/C)			I	
SPAIN (Canarias) Gran Canaria	AR1 AR6	Canarias ACC	I		I(A/C)	200		I	5 radars on multi radar system

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1	2	3	4	5	6	7	8	9	10
Lanzarote		Canarias ACC (GCFV/GCRR APP)			I(A/C)	220		N	
Las Palmas		Canarias ACC (GC APP)	I	60	I(A/C)	150			
La Palma		Canarias ACC			I(A/C)	170*			<i>*Between/Entre 005°-210°</i>
Tenerife		Canarias ACC Tenerife APP	I	60	I(A/C)	120		N	
SUDAN Khartoum		AR3 AR9	Khartoum ACC			MI(A/C)	250		N
Dongola	Khartoum ACC				F<2002	250			MSSR
El Fasher	Khartoum ACC				F<2002	250			
El Obeid	Khartoum ACC		A	100	F<2002	250			
Juba	Khartoum ACC		A	100	F<2002	250			
Malakal	Khartoum ACC				F<2002	250			
Port Sudan	Khartoum ACC		A	100	F<2002	250			

State/Location Etat/Emplacement	AR	ATS unit served Organe ATS desservi	PSR	Coverage/ Couverture of/du PSR (NM)	SSR (A/C/S)	Coverage/ Couverture of/du SSR (NM)	ADS-B*	ADS- C	Remarks/ Remarques
1	2	3	4	5	6	7	8	9	10
TUNISIA Tunis PSR: 365135.417N 0101428.9293E Sidi Zid: 362829.0381N 0101929.0568E Akouda 035 53 37N 010 33 46E	AR4 AR7	Tunis ACC Tunis APP Monastir APP	I	60	MI(A/C)	250		N	
		Tunis ACC Monastir APP			MI(A/C)	250			
UGANDA Entebbe	AR3	Entebbe ACC						N	
UNITED REP. OF TANZANIA Dar Es Salaam	AR3 AR8							N	
ZAMBIA Lusaka	AR4 AR8	Lusaka ACC						N	
ZIMBABWE Harare	AR8	Harare ACC			I(A/C)			N	
