

BRITISH DX CLUB

AFRICA ON SHORTWAVE



**COUNTRY-BY-COUNTRY GUIDE TO DOMESTIC AND
EXTERNAL SHORTWAVE BROADCASTING IN AFRICA,
INCLUDING OPPOSITION AND SELECTED TARGET
BROADCASTS TO THE AFRICAN CONTINENT**

MAY 2012

ALGERIA

RADIO ALGÉRIENNE

Radio Algérienne is part of Entreprise Nationale De Radiodiffusion Sonore (ENRS). Radio Algérienne relays via shortwave transmitters in France were discontinued at the end of 2011, but frequencies have been registered again for A-12 with HFCC as below. It appears that not all of these relays are actually in use, although Glenn Hauser heard 7295 kHz to close 0557 on 25 March 2012 and Rumen Pankov says he heard them on 7295 kHz at 0400 on the same day, and then nothing at all until hearing them again on 25 April 2012 (0400-0600 on 7295 kHz may therefore be the only one via Issoudun, albeit irregular?)

Transmitter Site: TDF, Issoudun, France - 500 kW.

Times/UTC	Days	Lang.	Target	Freq/kHz
0400-0500	Daily	Arabic	North Africa/Sahel	7295
0500-0600	Daily	Arabic	North Africa/Sahel	7295 9535
0600-0700	Daily	Arabic	North Africa/Sahel	11985 (9535 from 2 Sept 2012)
1800-1900	Daily	Arabic	North Africa/Sahel	13820
1900-2000	Daily	Arabic	North Africa/Sahel	11775 13820
2000-2100	Daily	Arabic	North Africa/Sahel	9375 11775
2100-2200	Daily	Arabic	North Africa/Sahel	7495 9375
2200-2300	Daily	Arabic	North Africa/Sahel	7495

New 250 kW shortwave transmitters for Radio Algérienne are currently being installed at Ourgla and Bechar in Algeria itself. It is unclear when the new transmitters will be operational but the following frequencies have been registered for A-12 season:

Transmitter Sites: Bechar - 250 kW and Ourgla - 250 kW.

Times/UTC	Days	Lang.	Target	Freq/kHz
0400-0600	Daily	French	North Africa/Sahel	7265-our 7445-bec
0600-0700	Daily	French	North Africa/Sahel	9490-our 9815-bec
1800-1900	Daily	French	North Africa/Sahel	11690-bec 11715-our
1900-2300	Daily	French	North Africa/Sahel	11770-our 11785-bec

NATIONAL RADIO OF THE SAHARAN ARAB DEMOCRATIC REPUBLIC

Operated by the Polisario Front in support of independence for Western Sahara. The shortwave transmitter is located in the Algerian town of Tindouf. See Western Sahara for further details.

ANGOLA

RADIO NACIONAL DE ANGOLA

Radio Nacional de Angola is the official state-operated radio station with headquarters in Luanda. It was established on 8 December 1975, following independence from Portugal and currently has three services operating on shortwave: Canal A, Radio N'Gola Yetu, and the International Service

RNA - CANAL A

Canal A is the main nationwide broadcasting channel of Radio Nacional de Angola.

Transmitter Site: Luanda-Mulenvos - 25 kW

Times/UTC	Days	Language	Target	Freq/kHz
24 hours	Daily	Portuguese	Domestic	4950v

RADIO N'GOLA YETU

Radio N'Gola Yetu was established in October 1999 and broadcasts in the 12 national languages of Angola: Bangala, Cokwe, Fiote, Luvale, Lunda, Kikongo, Kimbundu, Kwanyama, Ngangela, Nyaneka-Humbi, Umbundu, and Songo.

Transmitter Site: Luanda-Mulenvos - 15 kW (probably operating at very low power; irregularly reported)

Times/UTC	Days	Language	Target	Freq/kHz
0000-1200	Daily	National Languages	Domestic	7217v
1200-1300	Daily	Portuguese - National News	Domestic	7217v
1300-2000	Daily	National Languages	Domestic	7217v
2000-2200	Daily	International Sce - see below	External	7217v
2200-0000	Daily	Portuguese - relay Canal A	Domestic	7217v

RADIO NACIONAL DE ANGOLA - INTERNATIONAL SERVICE

RNA's International Service is for foreign nationals in Angola and listeners in neighbouring countries.

Transmitter Site: Luanda-Mulenvos - 15 kW (probably operating at very low power; irregularly reported)

Times/UTC	Days	Language	Target	Freq/kHz
2000-2100	Daily	French	Southern Africa	7217v
2100-2200	Daily	English	Southern Africa	7217v

TARGET BROADCAST TO ANGOLA

VOICE OF AMERICA - ANGOLA, FALO SÓ

Angola, Fala Só is a weekly call-in show for listeners in Angola. The title for the Portuguese language show was inspired by a popular expression which is often used in the Angolan capital, Luanda.

Transmitter Sites: Botswana (Moepeng Hill) 100 kW; Madagascar (Talata Volondry) 250 kW;

Sao Tome (Pinheira) 100 kW; USA (Greenville) 125 kW.

Times/UTC	Days	Language	Target	Freq/kHz
1730-1800	Fri	Portuguese	Angola	9825-sao 13630-bot 17530-gre
1800-1830	Fri	Portuguese	Angola	9825-bot 13630-mdg 17530-gre

ASCENSION ISLAND

BBC ATLANTIC RELAY STATION

The BBC World Service opened its overseas shortwave relay station on Ascension Island in 1966.

Transmitter Site: English Bay - 6 x 250 kW.

Times/UTC	Days	Station	Language	Target	Freq/kHz
0300-0400	Daily	BBC	English	West & Central Africa	6005
0300-0400	Daily	Deutsche Welle	Swahili	East Africa	9800
0300-0600	Daily	BBC	English	West & Central Africa	5875
0400-0700	Daily	BBC	English	West & Central Africa	6005
0430-0500	Daily	BBC	French	West & Central Africa	6135 7365
0500-0530	Daily	Voice of America	Hausa	West Africa	6035
0529-0600	Daily	BBC	Hausa	West Africa	6135 7305
0600-0629	Daily	BBC	French	West & Central Africa	6135 7305
0600-0700	Daily	BBC	English	West & Central Africa	7365 9410
0629-0700	Daily	BBC	Hausa	West Africa	9440 11800
0700-0729	Daily	BBC	French	West & Central Africa	11800
0700-0800	Daily	BBC	English	West & Central Africa	11770 13830 15400
0800-1130	Daily	BBC	English	West & Central Africa	15400 17830
1130-1330	Sat	BBC	Hausa	West Africa	17780
1130-1500	Daily	BBC	English	West & Central Africa	17830
1200-1230	Daily	BBC	French	West & Central Africa	17525 21630
1300-1700	Daily	BBC	English	West & Central Africa	17640
1330-1600	Daily	BBC	Hausa	West Africa	17780
1400-1430	Daily	BBC	Hausa	West Africa	15105 21630
1500-1800	Daily	BBC	English	West & Central Africa	15400 17830
1600-1800	Daily	BBC	English	West & Central Africa	17795
1700-1800	Daily	Family R	English	West & Central Africa	17545
1800-1830	Daily	BBC	French	West & Central Africa	11755 15105 17885
1800-1900	Daily	Family R	Igbo	West Africa	11875
1800-2100	Daily	BBC	English	West & Central Africa	11810 15400
1830-1845	Daily	FEBA R	French	Central Africa	15250
1830-1930	Daily	Family R	French	West & Central Africa	17585
1900-2000	Daily	Family R	Yoruba	West Africa	11855
1930-2000	exc-Fri	BBC	Hausa	West Africa	15105
1930-2030	Daily	BBC	Hausa	West Africa	11660 17885
2000-2100	Daily	Family R	English	West & Central Africa	15195
2100-2200	Daily	Family R	English	West & Central Africa	12070
2100-2300	Daily	BBC	English	West & Central Africa	9915 12095
2145-2200	Mo/Tu/Th/Fr	FEBA R	Hassinya	West Africa	11985
2200-2215	Mo/Tu/Th/Fr	FEBA R	Pulaar	West Africa	11985

BENIN

ORTB - RADIO BENIN

Radio Benin is the state-operated broadcasting service of ORTB in Benin. It was last reported on shortwave in 2006.

ORTB - RADIO PARAKOU

Radio Parakou is an ORTB regional station. It has not been heard on shortwave since January 2009.

BOTSWANA

RADIO BOTSWANA

Radio Botswana is the state-run broadcasting service for Botswana. It is inactive on shortwave.

IBB BOTSWANA TRANSMITTING STATION

The IBB Botswana Transmitting Station at Moepeng Hill was opened in 1991.

Transmitter Site: Moepeng Hill - 4 x 100 kW.

Times/UTC	Days	Service	Language	Target	Freq/kHz
0300-0430	Daily	VOA	English	Africa	9855
0300-0600	Daily	VOA	English	Southern Africa	4930
0330-0430	Daily	VOA	Kirundi/Kinyarwanda	Great Lakes	7340
0400-0700	Daily	VOA	English	Africa	12025
0500-0700	Daily	VOA	English	Africa	15580
0530-0600	Mon-Fri	VOA	French	Africa	9880
0600-0630	Mon-Fri	VOA	French	Africa	13830
1400-1700	Daily	VOA	English	Southern Africa	4930
1500-1800	Daily	VOA	English	Africa	15580
1500-1600	Daily	VOA	English	Africa	17895
1600-1630	Sat/Sun	VOA	Somali	Horn of Africa	15620
1600-1700	Daily	VOA	English	Africa	15470
1630-1700	Daily	VOA	Swahili	East Africa	15265
1700-1730	Daily	VOA	English	Africa	17895
1700-1720	Fri-Sun	VOA - Studio 7	Shona	Zimbabwe	4930
1700-1730	Mon-Thu	VOA - Studio 7	Shona	Zimbabwe	4930
1720-1740	Fri-Sun	VOA - Studio 7	English	Zimbabwe	4930
1730-1800	Mon-Fri	VOA	Afan Oromo	Horn of Africa	13570
1730-1800	Daily	VOA	Portuguese	Southern Africa	13630
1730-1800	Mon-Thu	VOA - Studio 7	English	Zimbabwe	4930
1740-1800	Fri-Sun	VOA - Studio 7	Ndebele	Zimbabwe	4930
1800-1810	Fri	VOA - Studio 7	Shona	Zimbabwe	4930
1800-1830	Mon-Fri	VOA	Portuguese	Southern Africa	9825
1800-1830	Mon-Thu	VOA - Studio 7	Ndebele	Zimbabwe	4930
1800-2000	Daily	VOA	English	Africa	15580
1810-1820	Fri	VOA - Studio 7	English	Zimbabwe	4930
1820-1830	Fri	VOA - Studio 7	Ndebele	Zimbabwe	4930
1830-1900	Daily	VOA	English	Africa	9850
1830-2100	Daily	VOA	English	Southern Africa	4930
1900-1930	Daily	R Afia Darfur	Sudanese Arabic	Sudan/Darfur	11830
1900-1930	Mon-Fri	VOA	Tigrigna	Horn of Africa	12080
1930-2030	Daily	VOA	French	Africa	9815
2030-2100	Sat/Sun	VOA	French	Africa	15185
2030-2200	Daily	VOA	English	Africa	6080
2100-2130	Mon-Fri	VOA	French	Africa	9815
2100-2200	Daily	VOA	English	Africa	15580

BURKINA FASO

RTB - RADIO BURKINA

Radio Burkina is the state-run broadcasting service for Burkina Faso. Radio Burkina has not been heard on shortwave since January 2010.

BURUNDI

RADIO-TELEVISION NATIONALE DU BURUNDI

RTNB is the state-run broadcasting service in Burundi. It was last reported on shortwave in 2003.

CAMEROON

RADIO BUEA

Radio Buea is the CRTV regional station for Cameroon's South-West Region. It is believed to be the last remaining CRTV station to operate on shortwave (the CRTV National Service from Yaounde was last heard on shortwave in 2000).

Transmitter Site: Buea, South-West Province.

Times	Days	Language	Target	Freq/kHz
0700-1700	Daily	English/Vernaculars	Domestic	6005 - irregularly reported

TARGET BROADCAST TO CAMEROON

SAWTU LINJIILA (RADIO VOICE OF THE GOSPEL)

Sawtu Linjiila is a broadcast from the Lutheran World Federation for Fulani listeners in West Africa.

Transmitter Site: Issoudun, France - 500 kW.

Times/UTC	Days	Language	Target	Freq/kHz
1830-1900	Daily	Fulani	West Africa	11975-iss

CANARY ISLANDS

RADIO NACIONAL DE ESPANA SHORTWAVE RELAY STATION

RNE opened the Centro Emisor de Atlantico shortwave relay station at Las Mesas, Tenerife, in 1964 with two 50 kW SW transmitters for relays to the Americas. They remained in service until 1988.

CAPE VERDE

RADIO NACIONAL DE CABO VERDE

Radio Nacional de Cabo Verde (A Voz do Sao Vicente) was last reported on shortwave in late 1989.

CENTRAL AFRICAN REPUBLIC

RADIO CENTRAFRIQUE - RADIODIFFUSION-TELEVISION CENTRAFRICAINE

Radio Centrafrique is the state-operated radio service of the Central African Republic. In recent years, Radio Centrafrique has been heard on 7220 kHz during daytime hours only. A new 1 kW shortwave transmitter was installed in May 2010 to operate on 5035 kHz. However, as of March 2012 there have been no recent reports either the new transmitter on 5035 or the old one on 7220 kHz.

Transmitter Site: Bangui-Bimbo.

Times/UTC	Language	Target	Freq/kHz
0600v-1630v	French/Vernaculars	Domestic	7220 - unconfirmed, not reported recently
-1900v	French/Vernaculars	Domestic	5035 - unconfirmed, not reported recently

RADIO ICDI

Radio ICDI (Integrated Community Development International) is a Christian ministry founded by Jim Hocking in 2003. Official broadcasts with a 1 kW shortwave transmitter started on 1 March 2007 on 6030 kHz with Christian programming and community health information. A second 1 kW shortwave transmitter donated by HCJB Global Voice was installed in April 2010 and went live on 1 April 2011 on 3390 kHz.

Transmitter Site: Boali - 2 x 1 kW.

Times/UTC	Languages	Target	Freq/kHz
0500-0800	French/Sango/Fulfude/Bayaka	Domestic	6030
1600-2000	French/Sango/Fulfude/Bayaka	Domestic	6030
1500-2100	French/Sango/Fulfude/Bayaka	Domestic	3390

Note: believed to be on air based on email from Jim Hocking of ICDI in an email to Glenn Hauser/DXLD on 6 March 2012.

RADIO NDEKE LUKA

Radio Ndeke Luka was established by the French-based Fondation Hirondelle as a replacement for Radio MINURCA (see below) with the intention of acting as a link between the UN, NGOs and the population. It commenced transmissions first on FM in 2000 and then with a shortwave relay in 2003 via a VT Communications transmitter in the UK. The shortwave transmission was cancelled in July 2005. Radio Ndeke Luka continues to broadcast on FM in the Central African Republic and its website also refers to a two-hour daily programme in Sango broadcast over Radio ICDI between 6-8 pm local time.

Transmitter Site: Boali (via Radio ICDI) - 1 kW.

Times/UTC	Languages	Target	Freq/kHz
1700-1900	Sango	Domestic	6030

CEUTA AND MELILLA

There is no shortwave broadcasting in Ceuta, Melilla, or any other Spanish possessions in North Africa.

CHAD

OFFICE NATIONALE DE RADIODIFFUSION ET DE TÉLÉVISION DU TCHAD - RADIO TCHAD

Radio Tchad is the state-operated broadcasting service of Chad. Its current shortwave transmitter was commissioned in 1984 and refurbished in 2004 thanks to financial and technical help from Taiwan.

Transmitter Site: N'djamena-Gredia - 250 kW.

Times/UTC	Days	Language	Target	Freq/kHz
0430-0730	Daily	French/Arabic/Vernaculars	Domestic	6165
0730-1030	Sat/Sun	French/Arabic/Vernaculars	Domestic	6165
1030-2230(-2300 Sat)	Daily	French/Arabic/Vernaculars	Domestic	6165

Note: has also been observed with 24h schedule since November 2011.

COMOROS

OFFICE DE RADIO ET TELEVISION DES COMORES - RADIO COMORES

Radio Comores is the national radio service of the Union of the Comoros. It was last reported on shortwave in 1997.

DEMOCRATIC REPUBLIC OF CONGO

RADIO TELE CANDIP

Radio Tele Candip is an educational radio station established in 1974. Has been controlled by rebel factions in the past.

Transmitter Site: Bunia - 1 kW.

Times/UTC	Days	Language	Target	Freq/kHz
0400-0700	Daily	French/Vernaculars	Domestic	5066.3v
1300-1900v	Daily	French/Vernaculars	Domestic	5066.3v

Note: evening sign-off time varies between 1900 and 1910.

RADIO KAHUZI

Radio Kahuzi is operated by a Christian group called Believer's Express Service, Inc. The station was established by Richard and Kathy McDonald that has been broadcasting from Bukavu since 1991 on FM. A 1 kW shortwave transmitter was added in February 2001, reaching a larger portion of Central Africa.

Transmitter site: Bukavu - 0.8 kW (built by HCJB).

Times/UTC	Days	Language	Target	Freq/kHz
0500-0700	Mon-Fri	French	Domestic	6209.6v
1630-2000	Mon-Fri	Swahili/English/French	Domestic	6209.6v

RADIODIFFUSION-TELEVISION NATIONALE CONGOLAISE

There is currently no shortwave service from the Kinshasa-based national station of Radiodiffusion-Television Nationale Congolaise (RTNC) and it now operates on FM only. RTNC in Kinshasa was last reported on shortwave in the late 1990's on 15245v kHz from a 100 kW transmitter. All official RTNC regional stations are also believed to be inactive on shortwave.

TARGET BROADCAST TO DR CONGO

RADIO OKAPI

Radio Okapi is a joint initiative between the UN Mission in the DRC and Fondation Hirondelle. It was established in early 2002 and is currently relayed via Meyerton, South Africa, as a target broadcast to the DRC. Three 10 kW transmitters in Kinshasa that were used on 6030, 9550 and 11690 kHz when Radio Okapi was first established are now inactive. Within the DRC, Radio Okapi is now aired on a network of FM transmitters around the country, in addition to the shortwave relays from Meyerton and Dhabbaya.

Address: Radio Okapi, 12 Av. des Aviateurs, Kinshasa, Gombe, Democratic Rep. of Congo.

Web: www.radiookapi.net

Transmitter site: Meyerton, South Africa - 250 kW.

Times/UTC	Days	Language	Target	Freq/kHz
0400-0500	Daily	French/Lingala	DR Congo	11690-mey

REPUBLIC OF CONGO

RADIO CONGO

Radio Congo is the government-controlled broadcasting service of the Republic of Congo. It was reactivated on shortwave in January 2009, although with a much reduced schedule.

Transmitter Site: Brazzaville.

Times/UTC	Days	Language	Target	Freq/kHz
1700-1845v	irregular	French/Vernacular	Domestic	6115

DJIBOUTI

RADIODIFFUSION TELEVISION DE DJIBOUTI

Radiodiffusion Television de Djibouti is the state-operated broadcasting service of Djibouti. Radio Djibouti's current shortwave transmitter was donated by the US government's IBB in early 2005 in exchange for the installation of a 600 kW mediumwave transmitter for use by Radio Sawa.

Transmitter Site: Djibouti-Doraleh - 50 kW.

Times/UTC	Days	Language	Target	Freq/kHz
0300-2100	Daily	Afar/Arabic/Somali	Horn of Africa	4780

EGYPT

EGYPTIAN RADIO AND TELEVISION UNION

ERTU is owned and operated by the Egyptian government. Following its inauguration in 1934, the Egyptian Broadcasting Corporation, as it was then called, developed slowly until the emergence of Colonel Nasser in 1952 when Egyptian radio's coverage and influence rapidly grew throughout the Arab World and North Africa.

EGYPTIAN RADIO - GENERAL PROGRAMME

The General Programme is the ERTU's flagship radio service. It was founded in 1934. Although intended primarily for a domestic audience, it has traditionally been broadcast on shortwave.

Transmitter Site: Abis - 250 kW; Abu Zaabal - 100/250 kW.

Times/UTC	Days	Language	Target	Freq/kHz
0700-1100	Daily	Arabic	West & Central Africa	17510-abz
1900-0700	Daily	Arabic	Western Europe/North America	9305-abs

VOICE OF THE ARABS

Voice of the Arabs was founded in 1953 and was once the most influential broadcast medium in the Middle East and North Africa.

Transmitter Site: Abu Zaabal - 100 kW.

Times/UTC	Days	Language	Target	Freq/kHz
1900-0030	Daily	Arabic	North-East Africa/Middle East	11540-abz

NILE VALLEY RADIO (Wadi El Nile)

Nile Valley Radio first took to the air in 1984 as a joint Egyptian-Sudanese venture, replacing the existing Sudan Corner programme, and is a service intended for Sudanese immigrants in the Nile Valley. It was first heard on shortwave in late 2007.

Transmitter Site: Abu Zaabal - 250 kW.

Times/UTC	Days	Language	Target	Freq/kHz
1700-2300	Daily	Arabic	Nile Valley (Sudan/Egypt)	9250-abz

RADIO CAIRO

Radio Cairo was founded in 1953 and is the external service of Egyptian radio.

Transmitter Site: Abis - 250 kW; Abu Zaabal - 100/250 kW.

Times/UTC	Days	Language	Target	Freq/kHz
0400-0600	Daily	Swahili	East Africa	13650-abz
1015-1215	Daily	Arabic	Middle East	17480-abz
1215-1330	Daily	English	South & South-East Asia	17870-abz
1230-1400	Daily	Indonesian	South-East Asia	15710-abs
1300-1400	Daily	Dari	West Asia	15065-abz
1300-1600	Daily	Arabic	West Africa	15080-abs
1330-1530	Daily	Persian	West Asia	15040-abz
1400-1600	Daily	Pashto	West Asia	15065-abz
1500-1600	Daily	Albanian	South-East Europe	13580-abz
1500-1600	Daily	Uzbek	Central Asia	15160-abz
1530-1730	Daily	Swahili	East Africa	17810-abz
1600-1700	Daily	Afar	East Africa	15450-abz
1600-1800	Daily	Urdu	West Asia	6270-abz
1600-1800	Daily	English	Central & Southern Africa	15345-abz
1700-1730	Daily	Somali	East Africa	15285-abz
1700-1900	Daily	Turkish	South-East Europe	9280-abs
1730-1900	Daily	Amharic	East Africa	15285-abz
1800-1900	Daily	Italian	Southern Europe	6270-abz
1800-2100	Daily	Hausa	West Africa	9990-abs
1900-2000	Daily	German	Central Europe	6270-abz
1900-2000	Daily	Russian	Russia	9280-abs
1900-2030	Daily	English	West Africa	15290-abz
2000-2115	Daily	French	Western Europe	6270-abz
2000-2200	Daily	Arabic	Australasia	9855-abz
2030-2230	Daily	French	West & Central Africa	15210-abs
2115-2245	Daily	English	Western Europe	6270-abz
2215-2330	Daily	Portuguese	South America	9290-abz
2300-0030	Daily	English	North America	6270-abz
2330-0045	Daily	Arabic	South America	9250-abs 9290-abz
0030-0430	Daily	Arabic	North America	6270-abz
0045-0200	Daily	Spanish	The Americas	9250-abs 9315-abz
0200-0330	Daily	English	North America	9315-abz

EQUATORIAL GUINEA

RIO MUNI

RADIO BATA

Radio Bata is the state-operated broadcasting service based on mainland Rio Muni. Radio Bata's broadcasting facilities were improved with help from Chinese technicians and it was reactivated with a new 50 kW shortwave transmitter in early 2005. It was reactivated in March 2012, having not been reported since April 2011.

Transmitter Site: Bata - 50 kW.

Times/UTC	Days	Language	Target	Freq/kHz
0500-2300	Daily	Spanish/Vernaculars	Domestic	5005

PAN AMERICAN BROADCASTING - RADIO AFRICA

Pan American Broadcasting leases a transmitter from the authorities in Equatorial Guinea and uses it to broadcast pre-recorded US evangelical programmes to Africa. The current 50 kW shortwave transmitter was installed by Chinese technicians in 2005. It was heard again in March 2012 having not been reported since May 2011.

Transmitter Site: Bata - 50 kW.

Times/UTC	Language/programming	Target	Freq/kHz
0500-0900v	English - US evangelical programmes	Africa	15190
1400-2300v	English - US evangelical programmes	Africa	15190

BIOKO ISLAND (FERNANDO PO)

RADIO MALABO

Radio Malabo is the state-operated broadcasting service based on Bioko Island. After a year or so off-air, a new 20 kW transmitter and antenna was inaugurated for Radio Malabo in November 2007.

Transmitter Site: Malabo (Semu) - 20 kW transmitter.

Times/UTC	Days	Language	Target	Freq/kHz
0530v-1830v	Daily	Spanish/Vernaculars	Domestic	6250 - irregularly reported

ERITREA

ERITREAN RADIO - VOICE OF THE BROAD MASSES OF ERITREA (DIMITSI HAFASH)

Voice of the Broad Masses of Eritrea (Dimtsi Hafash) is state run and operates two networks with programmes in several languages. Prior to the defeat of the Mengistu regime in Ethiopia in 1991, it had operated as a clandestine station supporting the Eritrean People's Liberation Front and other groups.

ERITREAN RADIO - VOBME - PROGRAMME 1

Transmitter Site: Asmara/Selea Daro - 100 kW.

Main frequency: 7205 kHz (may switch to adjacent freqs to avoid Ethiopian jamming)

Times/UTC	Days	Languages
0355-1000	Daily	Tigrinya/Tigre/Kunana
1300-1800	Daily	Tigrinya/Tigre/Kunana

ERITREAN RADIO - VOBME - PROGRAMME 2

Transmitter Site: Asmara/Selea Daro - main transmitter 100 kW.

Main frequency: 7175 kHz (may switch to adjacent freqs to avoid Ethiopian jamming)

Additional/alternative freqs reported January-April 2012: 4770 5945 7100-7205 9705-9720 9820 kHz

Times/UTC	Days	Languages
0355-1000	Daily	Arabic/Afar/Amharic/Oromo/Saho/Bilen/Hedareb/Nara/Somali
1300-1800	Daily	Arabic/Afar/Amharic/Oromo/Saho/Bilen/Hedareb/Nara/Somali

Note: Programmes are also carried on behalf of Ethiopian opposition groups; these broadcasts are often jammed by Ethiopia.

TARGET BROADCASTS TO ERITREA

VOICE OF THE DEMOCRATIC ALLIANCE

Broadcasts in support of the opposition Eritrean Democratic Alliance.

Transmitter Site: via Radio Ethiopia External Service - Gedja - 100 kW

Times/UTC	Days	Language	Target	Freq/kHz
1500-1530	Mon/Tue/Wed/Fri	Arabic	Horn of Africa	7235v
1500-1530	Tue/Thu/Sat	Tigrigna	Horn of Africa	7235v
1530-1600	Mon/Wed/Fri	Kunama	Horn of Africa	7235v
1530-1600	Tue/Thu/Sat	Afar	Horn of Africa	7235v
1530-1600	Sun	Tigrinya	Horn of Africa	7235v

VOICE OF ASENA

Broadcasts in support of assenna.com.

Transmitter Site: Samara, Russia - 250 kW.

Times/UTC	Days	Language	Target	Freq/kHz
1700-1800	Mon/Wed/Fri	Tigrinya	Eritrea	15245

VOICE OF PEACE AND DEMOCRACY OF ERITREA

Believed to support the Ethiopian-backed National Alliance of Eritrean Forces.

Transmitter Site: via Radio Ethiopia External Service - Gedja - 100 kW

Times/UTC	Days	Language	Target	Freq/kHz
1800-1830	Mon/Wed/Fri	Tigrinya/Vernaculars	Horn of Africa	7235v
0400-0430	Mon/Wed/Fri	Tigrinya/Vernaculars	Horn of Africa	7235v

VOICE OF ERITREA

Broadcasts in support of the Eritrean People's Movement.

Transmitter Site: via Radio Ethiopia External Service - Gedja - 100 kW

Times/UTC	Days	Language	Target	Freq/kHz
1800-1830	Tue/Thu/Sat	Tigrinya	Horn of Africa	7235v

ETHIOPIA

RADIO ETHIOPIA - NATIONAL SERVICE

Radio Ethiopia is the state-operated broadcasting service of Ethiopia.

Transmitter Site: Addis Ababa (Geja) - 100 kW.

Times/UTC	Days	Language	Target	Freq/kHz
0300-1200	Daily	Amharic/Vernaculars	Domestic	9705
1200-1300	Mon-Fri	English	Domestic	9705
1200-1300	Sat/Sun	Amharic/Vernaculars	Domestic	9705
1300-2100	Daily	Amharic/Vernaculars	Domestic	9705

RADIO ETHIOPIA - EXTERNAL SERVICE

Transmitter Site: Addis Ababa (Geja) - 2 x 100 kW.

Times/UTC	Days	Language	Target	Freq/kHz
0400-0430	Mon/Wed/Fri	Eritrean opposition	East Africa/Middle East	7235v
0700-0800	Daily	Somali	East Africa/Middle East	7235v
1200-1300	Daily	Somali	East Africa/Middle East	7235v
1300-1400	Daily	Afar	East Africa/Middle East	7235v
1400-1500	Daily	Arabic	East Africa/Middle East	7235v
1500-1600	Daily	Eritrean opposition	East Africa/Middle East	7235v
1600-1700	Daily	English	East Africa/Middle East	7235v
1700-1800	Daily	French	East Africa/Middle East	7235v
1800-1830	Mon-Sat	Eritrean opposition	East Africa/Middle East	7235v

Eritrean opposition broadcasts via Radio Ethiopia External Service (subject to confirmation):

0400-0430 & 1800-1830 Voice of Peace and Democracy of Eritrea (Mon/Wed/Fri)

1500-1600 Voice of the Democratic Alliance (Daily)

1800-1830 Voice of Eritrea (Tue/Thu/Sat)

VOICE OF THE TIGRAY REVOLUTION (DIMTSI WOYANE TIGRAY)

Official broadcasting station of the Tigre Region.

Transmitter Site: Addis Ababa (Geja) - 100 kW.

Times/UTC	Days	Language	Target	Freq/kHz
0300-1730	Daily	Tigrigna/Afar	Domestic	5935 5950 (alt: 5980 / 6170)
1730-1900	Mon-Fri	Tigrigna/Afar	Domestic	5935 5950 (alt: 5980 / 6170)

RADIO OROMIYA

Official broadcasting station of the Oromiya Region.

Transmitter Site: Addis Ababa (Geja) - 100 kW.

Times/UTC	Days	Language	Target	Freq/kHz
0330-0600	Daily	Oromia	Domestic	6030
0600-0900	Sat/Sun	Oromia	Domestic	6030
0900-1100	Daily	Oromia	Domestic	6030
1100-1530	Sat/Sun	Oromia	Domestic	6030
1530-1900	Daily	Oromia	Domestic	6030

AMHARA STATE REGIONAL RADIO

Official broadcasting station of the Amhara Region.

Transmitter Site: Addis Ababa (Geja) - 100 kW.

Times/UTC	Days	Language	Target	Freq/kHz
0300-0600	Daily	Amharic	Domestic	6090
0900-1100	Daily	Amharic	Domestic	6090
1400-1900	Daily	Amharic	Domestic	6090

RADIO FANA

Radio Fana is described as Ethiopia's first national private broadcasting station.

Transmitter Site: Addis Ababa - 2x 100 kW.

Times/UTC	Days	Language	Target	Freq/kHz
0300-2100	Daily	Amharic/Oromo/Somali/Afar	Domestic	6110 7210

TARGET BROADCASTS TO ETHIOPIA

VOICE OF THE OROMO LIBERATION FRONT

Broadcasts in support of the Oromo Liberation Front.

Transmitter Site: Issoudun, France - 500 kW.

Times/UTC	Days	Language	Target	Freq/kHz
1600-1630	Sun	Oromo	Ethiopia	15170-iss

RADIO XORIYO (RADIO FREEDOM)

Broadcasts in support of the Ogaden National Liberation Front.

Transmitter Site: Grigoriopol, Moldova - 100 kW; Issoudun - 500 kW

Times/UTC	Days	Language	Target	Freq/kHz
1600-1630	Mon/Fri	Somali	Ethiopia/Somalia	17870-gri
1600-1630	Tue/Sat	Somali	Ethiopia/Somalia	15170-iss

Note: 15170 transmission introduced on 3 April 2012

ESAT RADIO

ESAT describes itself as the first independent Ethiopian satellite service tasked to produce accurate and balanced news and information, ESAT Radio started testing on shortwave in late August 2011 and regular programmes were launched in October 2011. The purpose of the shortwave broadcasts is to overcome the jamming of satellite TV by the Ethiopian government.

Transmitter Site: Grigoriopol, Moldova-PMR - 100 kW.

Times/UTC	Days	Language	Target	Freq/kHz
1700-1800	Daily	Amharic	Ethiopia	15370-gri

VOICE OF OROMO LIBERATION (SBO)

Broadcasts in support of the Oromo Liberation Front.

Transmitter Site: Issoudun, France - 100 kW.

Times/UTC	Days	Language	Target	Freq/kHz
1700-1800	Wed/Sun	Oromo/Amharic	Ethiopia	13830-iss

BADR RADIO - BADR BROADCASTING NETWORK

Broadcasts in support of the Ethiopian Muslims Organisation. Began SW broadcasts on 20 April 2012.

Transmitter Site: Samara, Russia - 250 kW.

Times/UTC	Days	Language	Target	Freq/kHz
1830-1900	Fri-Sun	Amharic	Ethiopia	15165-sam

GABON

RADIODIFFUSION TELEVISION GABONAISE - RADIO GABON

RTG is the state-operated broadcasting service in Gabon. It was last reported on shortwave in 2008.

AFRICA NO. 1

Africa No 1 is a commercial service for French-speaking Africa operating from studios in Libreville.

Transmitter Site: Moyabi-Moanda - 250 kW.

Times/UTC	Days	Language	Target	Freq/kHz
0500-2300	Daily	French	Central Africa	9580

THE MOYABI TRANSMITTING STATION

Moyabi was inaugurated in 1979 and over the years has seen relays of Radio France Internationale, Swiss Radio International and Radio Japan, amongst others (more recently, an African Music Station was believed to originate from Moyabi as a source of jamming or distraction against the now-silent Libyan-opposition radio station, Sawt al-Amal). At the end of the B-07 season on 29 March 2008, Radio Japan discontinued the last remaining relays via Moyabi by an international broadcasting station, leaving just Africa No 1 as the sole user of the transmitting station.

GAMBIA

GAMBIA RADIO AND TELEVISION SERVICE

GRTS is Gambia's public service broadcaster. Radio Gambia, as it was then known, was last heard on shortwave in the mid-1970's.

GHANA

GHANA BROADCASTING CORPORATION

GBC is the public broadcasting service in Ghana. It was last reported on shortwave in 2007.

GUINEA

RADIO-TÉLÉVISION GUINÉENNE - RADIO CONAKRY

Radio-Télévision Guinéenne (RTG) is the state-operated broadcasting service of Guinea.

Transmitter Site: Conakry.

Times/UTC	Days	Language	Target	Freq/kHz
0555(0755 Sun)-2300v	Daily	French/Vernaculars	Domestic	7125 - irregularly reported

FAMILIA FM

Familia FM is a private station broadcasting on 105.3 FM in Conakry and since late March 2010 had also broadcast on shortwave between 1800-0000 with a 1 kW transmitter on 4900 kHz located at Timbi-Madina in northern-central Guinea. However, it has not been reported on shortwave since May 2011.

GUINEA-BISSAU

RADIODIFUSÃO NACIONAL DE REPUBLICA DE GUINÉ-BISSAU

RDN is the state-run broadcasting service in Guinea-Bissau. It was last reported on shortwave in 1987.

IVORY COAST

RADIODIFFUSION TELEVISION IVOIRIENNE

RTI is the state-broadcasting service of Ivory Coast. It was last reported on shortwave in 1996.

KENYA

KENYA BROADCASTING CORPORATION

Kenya Broadcasting Corporation is a state corporation established by an Act of Parliament CAP 221 of the laws of Kenya to undertake public services. KBC left shortwave in the 1990's.

LESOTHO

LESOTHO NATIONAL BROADCASTING SERVICE - RADIO LESOTHO

LNBS is the state-run broadcasting service in Lesotho. It was last heard on shortwave in 2005.

BBC WORLD SERVICE RELAY STATION

BBC World Service relay station in Lesotho was opened in 1979 with two 100 kW shortwave transmitters. It closed on 30th September 1996, with shortwave relays switching to Meyerton in South Africa.

LIBERIA

There is currently no shortwave broadcasting in Liberia. Out of those stations that have been heard on shortwave in the past, Radio ELWA and Star Radio may be the most likely to return at some point in the future as their shortwave transmitters are relatively new.

RADIO ELWA

Radio ELWA is a Christian radio station in Monrovia. After having its facilities destroyed in the Liberian civil war, a 1 kW shortwave transmitter built by HCJB Global was later installed in 2000 (for 4760 kHz) and a 5 kW shortwave transmitter built by Elcor in 2008 (for 6070 kHz). In early 2011, both shortwave transmitters were inactive due to the theft of copper wire for the antenna and other equipment. In November 2011 it was reported that the ELWA studio compound in Monrovia had been completely destroyed by fire, although the FM transmitter was reported to have been undamaged.

STAR RADIO

Star Radio is an independent radio station for Liberia in partnership with Fondation Hirondelle. In May 2010, Star Radio installed a new 2.5 kW shortwave transmitter to replace shortwave relays over hired transmitters in the UK and Ascension Island, and most recently it had been operating on 3960 kHz but has not been reported since October 2010.

LIBYA

RADIO TELEVISION LIBYA - RADIO LIBYA

Radio-Television Libya has been heard since October 2011 and is the replacement for the Gaddafi-era Voice of Africa external service. It only broadcasts in French at present.

Transmitter Site: Sabrata, Libya - 500 kW

Times/UTC	Days	Language	Target	Freq/kHz
1600v-1805v	Daily	French	Africa	11600

MADAGASCAR

RADIO MADAGASIKARA/RADIO NATIONALE MALGACHE

Radio Madagasikara is the state-run broadcasting service in Madagascar.

Transmitter Site: Fenoarive - 10/20/30/100 kW.

Times/UTC	Days	Language	Target	Freq/kHz
0300-0500	Daily	Malagasy/French	Domestic	3288v 5010v
0500-1500	Daily	Malagasy/French	Domestic	5010v 6135v
1500-1900 (-2100 Sat/Sun)	Daily	Malagasy/French	Domestic	3288v 5010v

RADIO NETHERLANDS RELAY STATION

The Radio Netherlands Relay Station in Madagascar went into full operation in mid-1972.

Transmitter Site: Talata-Volondry - 50/250 kW.

Times/UTC	Days	Station	Language	Target	Freq/kHz
0230-0330	Daily	AWR	Malagasy	Madagascar	3215
0300-0330	Daily	Vatican R	English	East Africa	7360
0330-0345	Daily	Vatican R	Swahili	East Africa	7360
0315-0400	Daily	NHK R Japan	Swahili	East Africa	7395
0345-0400	Mon-Sat	Vatican R	Swahili	East Africa	7360
0345-0400	Sun	Vatican R	Somali	Horn of Africa	7360
0400-0415	Daily	Vatican R	Amharic	Horn of Africa	11625
0400-0430	Daily	R Tamazuj	Sudanese langs	Sudan	15400
0415-0430	Daily	Vatican R	Tigrigna	Horn of Africa	11625
0400-0430	Daily	Voice of America	Kinyarw/Kirundi	East Africa	11905
0400-0500	Daily	R Voice of the People	English/Vernacular	Southern Africa	9870
0500-0530	Daily	Vatican R	English	Central/Southern Africa	11625
0500-0530	Daily	Vatican R	English	Central/Southern Africa	13765
0530-0600	Daily	NHK R Japan	French	Central Africa	13840
0430-0600	Daily	R Dabanga	Sudanese Arabic	Darfur/Sudan	15400
0530-0600	Daily	Vatican R	Portuguese	Southern Africa	13765
0700-0730	Daily	Voice of America	Hausa	West Africa	11970
1100-1130	Sat	Voice of America	French	West Africa	11925
1300-1400	Daily	AWR	Vietnamese	South-East Asia	17670
1300-1400	Daily	Voice of America	Somali	Horn of Africa	15730
1400-1430	Daily	Voice of Tibet	Tibetan	East/South Asia	17560
1415-1430	Wed/Sun	Vatican R	Urdu	South Asia	17520
1430-1450	Daily	Vatican R	Hindi	South Asia	17520
1450-1510	Daily	Vatican R	Tamil	South Asia	17520
1430-1515	Daily	NHK R Japan	Hindi	South Asia	15745
1430-1530	Daily	AWR	Malagasy	Madagascar	6155
1510-1530	Daily	Vatican R	Malayalam	South Asia	17520
1530-1550	Sun-Fri	Vatican R	English	South Asia	17520
1500-1630	Daily	R Dabanga	Sudanese Arabic	Darfur/Sudan	15150
1600-1630	Daily	R Voice of the People	English/Vernacular	Southern Africa	9445
1600-1700	Daily	Family R	Swahili	East Africa	9590
1600-1700	Daily	Zimbabwe CR	English	Southern Africa	12115
1530-1700	Sat	Vatican R	English	South Asia	17520
1700-1725	Daily	Fiangonana Loterana	Malagasy	Madagascar	6155
1700-1800	Mon-Thu	VOA - Studio 7	Multilingual	Zimbabwe	12120
1700-1800	Daily	Family R	English	East Africa	7395
1730-1800	Daily	NHK R Japan	Swahili	East Africa	13730
1800-1830	Daily	NHK R Japan	English	Central/West Africa	15720
1800-1830	Mon-Fri	Voice of America	Portuguese	Southern Africa	13630
1800-1900	Daily	R Voice of the People	English/Vernacular	Southern Africa	7330
1800-2000	Daily	Family R	English	East Africa	7395
1900-2057	Daily	R Netherlands	English	Central Africa	7425
2030-2100	Daily	NHK R Japan	French	Central/West Africa	11850
2000-2100	Daily	Voice of America	English	Africa	15580

WORLD CHRISTIAN BROADCASTING - MADAGASCAR WORLD VOICE

In November 2004 World Christian Broadcasting obtained 85 acres of land in Madagascar for a new transmitter site. Since then the project to get Madagascar World Voice, as the station will be known, has been making steady progress towards its goal of broadcasting Gospel programming to Middle East, Africa, South America, China, Russia, India, Indonesia and Europe. It is expected to be on air in 2012.

Transmitter Site: Mahajanga, Madagascar - 3 x 100 kW

Times and frequencies registered for the period 25 March-28 October 2012

Times/UTC	ITU Zones	Freq/kHz	Language
0100-0200	13,15,12,14,48,53,47,52,46	11720	Spanish
0200-0300	13,15,12,14,48,52,47,52,46	11720	Spanish
0200-0300	41,42,43,32,33	13630	English
0400-0500	48,53,47,52,46,38,37,13,12	9320	English
1300-1400	41,42,43,44,49,33,32	15485	Chinese
1400-1500	41,42,43,32,33	13830	English
1500-1600	41,42,43,44,49,33,32	15735	Chinese
1800-1900	48,52,47,52,46,38,3	9320	English
1800-1900	39,40,29,48,38,28	9980	Arabic
1800-1900	39,29,40,19,28,48,38	11520	Russian
1900-2000	48,47,38,28,39,37,53,47	9365	Arabic
1900-2000	39,29,40,19,28,48,38	11520	Russian
2000-2100	48,47,38,28,39,37,53,47	9365	Arabic

MALAWI

MALAWI BROADCASTING CORPORATION

MBC is the state-run broadcasting organisation in Malawi. It was last heard on shortwave in 2002.

MALI

OFFICE DE RADIODIFFUSION-TELEVISION DU MALI (ORTM)

RTM is the state-operated broadcasting service in Mali.

Transmitter Site: Bamako - 100 kW.

Times/UTC	Days	Language	Target	Freq/kHz
0555-0800	Daily	French/Vernaculars	Domestic	5995
0800-1800	Daily	French/Vernaculars	Domestic	9635
1800-0000	Daily	French/Vernaculars	Domestic	5995

CHINA RADIO INTERNATIONAL RELAY STATION

China Radio International was first relayed via transmitters in Mali in 1988.

Transmitter Site: Bamako - 2 x 100 kW.

Times/UTC	Days	Language	Target	Freq/kHz
0800-0900	Daily	Hausa	Africa	7295
1300-1400	Daily	English	Africa	13685 17880
1400-1500	Daily	English	Africa	13685 17630
1500-1600	Daily	English	Africa	13685 17630
1600-1700	Daily	Arabic	Africa	15125 17880
1700-1730	Daily	Swahili	Africa	113645 15125
1730-1830	Daily	Hausa	Africa	11640 13645
1830-1930	Daily	Arabic	Africa	11640 13685
1930-2000	Daily	Portuguese	Africa	11640 13630
2000-2100	Daily	English	Africa	11640 13630
2100-2130	Daily	English	Africa	11640 13630
2130-2230	Daily	French	Africa	11975 13630
2230-2300	Daily	Chinese	Africa	11975 15505
2300-0000	Daily	Chinese	Africa	7295 11975

MAURITANIA

RADIO OF THE ISLAMIC REPUBLIC OF MAURITANIA

Radio Mauritanie is the state-operated broadcasting service in Mauritania.

Transmitter Site: Nouakchott - 100 kW

Times/UTC	Days	Language	Target	Freq/kHz
0600v-0100v	Daily	Arabic/French/Vernaculars	Domestic	7245

Note: Sign-on is variable, sometimes before, sometimes after 0600

MAURITIUS

MAURITIUS BROADCASTING CORPORATION

MBC is inactive on shortwave. MBC was last listed on shortwave in WRTH 1988 edition.

MAYOTTE

There is no shortwave broadcasting on Mayotte.

MOROCCO

RADIODIFFUSION-TELEVISION MAROCAINE

RTM is the state-operated broadcasting service in Morocco.

Transmitter Site: Nador - 250 kW.

Times/UTC	Days	Language	Target	Freq/kHz
0800-2200	Daily	Arabic	Europe/North Africa/Middle East	15349.15

RADIO MEDITERRANÉE INTERNATIONALE - MEDI 1

Medi 1 is a commercial broadcasting service based in Tangiers that first went on air in 1980.

Transmitter Site: Nador - 250 kW.

Times/UTC	Days	Language	Target	Freq/kHz
0500-0000	Daily	Arabic/French	Europe/North Africa/Middle East	9575

IBB RELAY STATION - BRIECH

IBB transmissions from the IBB Briech began broadcasting in 1993 but were discontinued on 30 March 2008, with relays of Radiodiffusion-Télévision Marocaine (RTM) ending a month later on 30 April 2008.

MOZAMBIQUE

RADIO MOZAMBIQUE

RM shortwave transmitters were officially decommissioned during 2001 in favour of mediumwave and FM.

TARGET BROADCAST TO MOZAMBIQUE

VOICE OF AMERICA - VIDA SEM MEDO (Life Without Fear)

Reporters, medical doctors, youth and the community from Mozambique discuss HIV/AIDS and related health issues.

Transmitter Site: Iranawila, Sri Lanka - 250 kW.

Times/UTC	Days	Language	Target	Freq/kHz
1000-1030	Sat/Sun	Portuguese	Mozambique	17850-ira 21590-ira

NAMIBIA

NAMIBIA BROADCASTING CORPORATION

Namibia Broadcasting Corporation is the state broadcasting service in Namibia. It is inactive on shortwave and was last heard in 2004.

NIGER

ORTN - LA VOIX DU SAHEL

ORTN is the state-operated broadcasting service in Niger.

Transmitter Site: Niamey - 100 kW transmitter.

Times/UTC	Days	Language	Target	Frequencies/kHz
0500-2300 (-2200 Sun)	irregular	French/Vernaculars	Domestic	9705

NIGERIA

VOICE OF NIGERIA

The Voice of Nigeria is the official international broadcasting station of Nigeria.

Transmitter Site: Ikorodu - 350 kW.

Times/UTC	Days	Language	Target	Freq/kHz
0500-0700	Daily	English	Europe/North Africa	15120
0700-0800	Daily	French	Europe/North Africa	15120
0800-0900	Daily	Hausa	West Africa	9690
0900-1500	Daily	English	West Africa	9690
1500-1600	Daily	English	Europe/North Africa	15120
1600-1630	Daily	Swahili	East Africa	9690
1630-1700	Daily	Yoruba	West Africa	9690
1700-1730	Daily	Igbo	West Africa	9690
1730-1800	Daily	Arabic	North Africa	15120
1800-1830	Daily	English	Europe/North Africa	15120
1900-2000	Daily	English	West Africa	7255
2000-2100	Daily	French	West Africa	7255
2100-2200	Daily	Hausa	West Africa	7255
2200-2300	Daily	Fulani	West Africa	7255

Transmitter Site: Abuja (Lugbe) - 3 x 250 kW.

Times/UTC	Days	Language	Target	Freq/kHz
1830-2000	Daily	English	Europe/North Africa	15120 - DRM

note: DRM transmissions from Abuja may also be heard at other times of the day.

On 13 March President Goodluck Jonathan commissioned Voice of Nigeria's new highpower shortwave transmitting station with its revolving antenna, located on Airport Road, Lugbe, a suburb of Abuja. The event included the commissioning of three high-power transmitters, three fixed and one rotatable antenna, the first in Africa and sixth in the World. In his welcome address, the director-general of VON, Abubakar Jijiwa, expressed optimism that the second phase of the project, when completed, would enable VON to embark on 24-hour broadcasting. He stated that "The second phase of this project needs be commenced urgently. It will comprise of two additional super power transmitters and one fixed and one rotatable antenna. When this is done and completed, VON would have the capacity for 24-hour broadcast and we can move this from our existing 18-hour broadcast". On the same day, a new ultra-modern digital studio in Abuja was also commissioned. (Voice of Nigeria 13 March 2012)

Despite inaugurating its new shortwave station, Voice of Nigeria (VON) does not plan to close its existing station at Ikorodu. In fact, Director-General Abubakar Jijiwa is hoping for 'presidential intervention' for VON's expansion projects. These include the construction of two additional transmitters and antenna systems at the new station in Abuja in line with global best practices and standards; construction of VON Abuja Broadcasting House and the rehabilitation and upgrading of the ageing Ikorodu transmission station. (Media Network 13 March 2012)

Tests from the new Abuja site had been observed since around 7 March 2012 in both AM and at times DRM on 15120 kHz. Since the launch VON seemed to be using both transmitters at times, the new transmitter is notable by having improved audio without a hum. DRM from the new Abuja transmitter is currently reported around 1830-2000.

RADIO NIGERIA-KADUNA

Radio Nigeria-Kaduna is the regional broadcasting station of the FRCN for Kaduna State.

Transmitter Site: Kaduna - 50 kW.

Times/UTC	Days	Service/Language	Target	Freq/kHz
0400-2305	Daily	Channel 1 - Hausa	Domestic	6090v

RADIO NIGERIA NATIONAL STATION-ABUJA ("THE VOICE OF UNITY")

Radio Nigeria-Abuja is the National Station of the FRCN based in the capital, Abuja.

Transmitter Site: Abuja.

Times/UTC	Days	Language	Target	Freq/kHz
0530-1200	Daily	English/Vernaculars	Domestic	7275

TARGET BROADCASTS TO NIGERIA

HAMADA RADIO INTERNATIONAL

Hamada Radio International is a commercial service broadcasting to Nigeria that started on 6 December 2010. It is brokered by Radio Miami International and broadcast via shortwave transmitters in Germany.

Transmitter Site: Wertachtal, Germany - 100 kW.

Times/UTC	Days	Language	Target	Freq/kHz
0530-0600	Mon-Fri	Hausa	Nigeria	9610-wer

RADIO BIAFRA LONDON

Radio Biafra was established as an independent radio station broadcasting on shortwave in April 2009. The project was funded through donations from supportive private individuals in Biafra. It had broadcast in Igbo and English via Skelton, UK. Broadcasts were discontinued prior to the B-09 season. However, it resumed its twice-weekly shortwave broadcast to Nigeria as "Radio Biafra London" on 21 April 2012 via the MBR transmitter at Wertachtal, Germany.

Transmitter Site: Wertachtal, Germany - 125 kW.

Times/UTC	Days	Language	Target	Freq/kHz
2000-2100	Thu/Sat	Igbo/English	West Africa	11870-wer

REUNION

ORTF REUNION

ORTF operated a 4 kW shortwave transmitter on Reunion which became inactive in the mid-1970's.

RWANDA

RADIO RWANDA - RADIODIFFUSION DE LA REPUBLIQUE RWANDAISE

Radio Rwanda is the state-operated radio station in Rwanda.

Transmitter Site: Kigali - 100 kW.

Times/UTC	Days	Language	Target	Freq/kHz
0255-0600	Daily	Kinyarwanda/French/English/Swahili	Domestic	6055
0900-2100	Daily	Kinyarwanda/French/English/Swahili	Domestic	6055

Note: News in English at 0515 and 1830.

Radio Rwanda also broadcasts in DRM 24-hours-a-day on 25740 kHz (.08 kW) in Kigali.

DEUTSCHE WELLE RELAY STATION

The Deutsche Welle relay station at Kigali was established in the late 1960's.

Transmitter Site: Kigali - 4 x 250 kW.

Times/UTC	Days	Station	Language	Target	Freq/kHz
0300-0400	Daily	Deutsche Welle	Swahili	East Africa	5925 6180
0400-0500	Daily	Deutsche Welle	English	Africa	6180 7240 9470 12045
0500-0530	Daily	Deutsche Welle	English	Africa	5925 9470 9800 9850
0530-0600	Daily	Deutsche Welle	English	Africa	9800 9850
0530-0600	Daily	Deutsche Welle	Portuguese	Southern Africa	9470 12045
0600-0630	Daily	Deutsche Welle	English	West Africa	13780 15275 17820

0630-0700	Daily	Deutsche Welle	English	West Africa	13780 17820
0630-0700	Daily	Deutsche Welle	Hausa	West Africa	12045 15275
0800-0830	Daily	Deutsche Welle	Pashto	West Asia	17710
0830-0900	Daily	Deutsche Welle	Dari	West Asia	17710
1000-1100	Daily	Deutsche Welle	Swahili	East Africa	11800 15410 15515
1200-1300	Daily	Deutsche Welle	French	Africa	11800 15275 17810 21780
1300-1315	Fri-Sun	TWR	Afar	Horn of Africa	13660
1330-1400	Daily	Deutsche Welle	Dari	West Asia	15275
1300-1400	Daily	Deutsche Welle	Hausa	West Africa	15410 17800 21780
1400-1430	Daily	Deutsche Welle	Pashto	West Asia	15275
1430-1500	Daily	Deutsche Welle	Urdu	West Asia	15275
1500-1600	Daily	Deutsche Welle	Swahili	East Africa	7265 9770 12070
1600-1630	Daily	FEBA R	Afar	Horn of Africa	11655
1600-1700	Daily	Deutsche Welle	Amharic	Horn of Africa	9800 11805 15275
1700-1730	Daily	FEBA R	Orominya	Horn of Africa	9630
1700-1800	Daily	Deutsche Welle	French	Africa	9735 11810 15275
1730-1800	Daily	FEBA R	Tigrinya	Horn of Africa	9630
1800-1900	Daily	Deutsche Welle	Hausa	West Africa	9735 15275 21780
1900-1930	Daily	Deutsche Welle	English	Africa	7365 9735 11800
1800-1930	Daily	V of Forgiveness	Arabic	Yemen	9550
1930-2000	Daily	Deutsche Welle	English	Africa	6150 11865
1930-2000	Daily	Deutsche Welle	Portuguese	Southern Africa	7365 11800
2000-2100	Daily	Deutsche Welle	English	Africa	6150 9490 11800
2100-2200	Daily	Deutsche Welle	English	Africa	11800 11830 11865

SAINT HELENA

RADIO ST HELENA DAY

"Radio St Helena Day" was an annual broadcast on shortwave. Transmissions were beamed to different parts of the world on 11092.5 kHz. The last was on 14 November 2009. The first "Radio St Helena Day" broadcast took place in 1990 when Cable and Wireless allowed their 1 kW shortwave transmitter to be used for special transmissions around the world and the annual event took place until 1999. After a break of seven years, a new 1 kW shortwave transmitter and aerial mast was in place on St Helena by November 2006 thanks to a project run by German DXer, Robert Kipp, and "Radio St Helena Day" once again became a highlight of the DX year.

SAO TOME E PRINCIPE

RADIO NACIONAL DE SAO TOME E PRINCIPE

Radio Nacional de Sao Tome e Principe is inactive on shortwave. The last WRTH entry was in 1988.

IBB RELAY STATION SAO TOME

The IBB Relay Station was opened in 1992 with shortwave transmitters operational in 1996.

Transmitter Site: Pinheira - 100 kW.

Times/UTC	Days	Service	Language	Target	Freq/kHz
0300-0330	Daily	Afia Darfur	Arabic	Darfur/Sudan	7330
0300-0700	Daily	VOA	English	West Africa	6080
0330-0400	Daily	VOA	Kinyarwanda	Great Lakes	6100
0330-0400	Daily	VOA	Somali	Horn of Africa	6135
0400-0430	Daily	VOA	Kirundi	Great Lakes	6100
0400-0500	Daily	VOA	English	West Africa	4960
0500-0530	Daily	VOA	Hausa	West Africa	4960 6045 6095
0530-0630	Mon-Fri	VOA	French	West Africa	4960 6095
0700-0730	Daily	VOA	Hausa	West Africa	4960
1100-1130	Sat	VOA	French	West/Central Africa	13770
1400-1500	Daily	VOA	English	Africa	12080 15580 17530
1400-1700	Daily	VOA	English	West/Central Africa	6080
1500-1530	Daily	VOA	Hausa	West Africa	13630 13730

1600-1615	Sat	VOA	Kinyarwanda	Great Lakes	15460 17895
1600-1700	Daily	VOA	English	Africa	12080
1615-1630	Sat	VOA	Kirundi	Great Lakes	15460 17895
1630-1700	Daily	VOA	Swahili	East Africa	11645 15460
1700-1720	Fri-Sun	VOA - Studio 7	Shona	Zimbabwe	7210
1700-1730	Mon-Thu	VOA - Studio 7	Shona	Zimbabwe	7210
1720-1740	Fri-Sun	VOA - Studio 7	English	Zimbabwe	7210
1730-1730	Daily	VOA	Portuguese	Southern Africa	9825 13630
1730-1800	Daily	VOA	English	Africa	6080 17895
1730-1800	Daily	VOA	Portuguese	Southern Africa	9825
1730-1800	Mon-Thu	VOA - Studio 7	English	Zimbabwe	7210
1740-1800	Fri-Sun	VOA - Studio 7	Ndebele	Zimbabwe	7210
1800-1810	Fri	VOA - Studio 7	Shona	Zimbabwe	7210
1800-1830	Daily	Afia Darfur	Arabic	Darfur/Sudan	13715
1800-1830	Daily	VOA	English	West/Central Africa	6080
1800-1830	Mon-Thu	VOA - Studio 7	Ndebele	Zimbabwe	7210
1800-1900	Daily	VOA	English	Southern Africa	12015
1810-1820	Fri	VOA - Studio 7	English	Zimbabwe	7210
1820-1830	Fri	VOA - Studio 7	Ndebele	Zimbabwe	7210
1830-1900	Mon-Fri	VOA - Studio 7	LiveTalk	Zimbabwe	7210
1830-1930	Daily	VOA	French	West/Central Africa	17530
1900-1930	Daily	VOA	English	West Africa	4940 9850
1930-2030	Daily	VOA	English	West Africa	4940
2000-2030	Daily	VOA	French	West/Central Africa	6040 11900
2030-2100	Mon-Fri	VOA	Hausa	West Africa	4940 6040 7310 11830
2030-2100	Sat/Sun	VOA	English	West Africa	4940
2030-2100	Sat/Sun	VOA	French	West Africa	9885
2100-2130	Mon-Fri	VOA	French	West Africa	9590 9885 11900

SENEGAL

RADIODIFFUSION TÉLÉVISION SÉNÉGALAISE

RTS is the Senegalese public broadcasting company. It was last reported on shortwave in 1997.

SEYCHELLES

BBC INDIAN OCEAN RELAY STATION

The BBC Indian Ocean Relay Station was opened in 1988. It is operated by VT Communications.

Transmitter Site: Mahe - 2 x 250 kW.

Times/UTC	Days	Station	Language	Target	Freqs/kHz
0200-0300	Daily	BBC	English	East Africa	6005
0300-0400	Daily	BBC	English	East Africa	9750
0400-0430	Daily	BBC	Somali	Horn of Africa	15490
0400-0600	Daily	BBC	English	East Africa	11945
0430-0500	Daily	BBC	French	Indian Ocean Isl.	15490
0500-0600	Sat	BBC	Kinyarwanda/Kirundi	East Africa	15490
0500-0700	Daily	BBC	English	East Africa	15420
0700-1300	Daily	BBC	English	East Africa	17640
0800-1400	Daily	BBC	English	Southern Africa	21470
1300-1400	Daily	BBC	English	East Africa	15420
1400-1500	Daily	BBC	Somali	Horn of Africa	11860 15420
1500-1800	Daily	BBC	English	East Africa	12095
1630-1700	Mon-Fri	BBC	Kinyarwanda/Kirundi	East Africa	11860
1800-1830	Daily	BBC	Somali	Horn of Africa	6005 9410
1830-1900	Mon-Fri	BBC	Kinyarwanda/Kirundi	East Africa	6005
1830-2200	Daily	BBC	English	East Africa	9410
1900-2100	Daily	BBC	English	East Africa	6005
2200-2300	Daily	BBC	English	East Africa	9730

FEBA RADIO

FEBA Radio began broadcasting from the Seychelles in the early 1970's with programmes beamed to South Asia, the Middle East, and East Africa. These ended in March 2003 and FEBA Radio now has a contract agreement with Babcock to air its programmes via transmitters in various countries.

SIERRA LEONE

SIERRA LEONE BROADCASTING CORPORATION

The Sierra Leone Broadcasting Corporation was established in 2009, replacing the previous state-owned broadcasting service, the Sierra Leone Broadcasting Service. SLBS was last heard in 2002 on 3316 kHz.

SOMALIA

SOMALI BROADCASTING SERVICE - RADIO MOGADISHU

Somali Broadcasting Service - Radio Mogadishu, representing the last fully functioning government in Somalia, was last reported on shortwave in August 1991. Since then there have been several shortwave radio stations in Somalia broadcasting in support of various clans and factions, peacekeeping operations, and more recently, the Transitional Federal Government. The last shortwave stations heard from Somalia, with the exception of Radio Hage in Puntland (see below), were **Radio Shabelle** in Mogadishu and **Radio Baay** in Baidoa which were last reported in July 2006 and April 2007 respectively.

PUNTLAND

Puntland is a self-declared autonomous state in northeast Somalia. Unlike neighbouring Somaliland, it does not seek outright independence from Somalia.

RADIO HAGE (Radio Leader)

Radio Hage was established in 2007 in Galkayo with a format of news, music and education, with programmes produced independently. Radio Hage forbids the use of radio for promoting human hatred.

Transmitter Site: Galkayo - 1.25 kW.

Times/UTC	Language	Target	Frequencies/kHz
unconfirmed	Somali	Domestic	3980 6915 - current status subject to confirmation

TARGET BROADCASTS TO SOMALIA

RADIO DAMAL (VOICE OF THE SOMALI PEOPLE)

Radio Damal is a service for Somalia that was launched in November 2010. Its programmes are produced from the studios of KBC in Nairobi, Kenya, and it hires airtime on Babcock transmitters.

Transmitter Site: Dhabbaya, UAE - 250 kW; Woofferton, UK - 300 kW.

Times/UTC	Days	Language	Target	Freq/kHz
0400-0700	Daily	Somali	Somalia and Somali-speaking region	15700-dha
1830-1930	Daily	Somali	Somalia and Somali-speaking region	11740-wof
1930-2130	Daily	Somali	Somalia and Somali-speaking region	11650-dha

RADIO ERGO

Radio ERGO is the new name for the IRIN radio service that took effect on 1 July 2011 when the service was taken over by IMS Productions Aps, a non-profit organization with headquarters in Copenhagen.

Transmitter Site: Dhabbaya, UAE - 250 kW.

Times/UTC	Days	Language	Target	Freq/kHz
0830-0930	Daily	Somali	Somalia and Somali-speaking region	13685-dha

RADIO FREEDOM

Radio Freedom is a programme produced in support of the Alliance for the Re-Liberation of Somalia.

Transmitter Site: via Eritrean radio, Asmara/Selea Daro - 100 kW.

Times/UTC	Days	Language	Target	Freq/kHz
1330-1400	Tue/Fri	Somali	Somalia	see VOBME schedule under Eritrea for latest freqs
1730-1800	Tue/Fri	Somali	Somalia	see VOBME schedule under Eritrea for latest freqs

SOMALILAND

RADIO HARGEISA

Radio Hargeisa is the national broadcasting station of the Republic of Somaliland. Radio Hargeisa was established in 1948, but in 1988 it was destroyed by the forces of Siyad Bare. In the years that followed it reportedly operated on various low-powered transmitters until a new shortwave transmitter was installed in early 2008 and regular transmissions commenced in March 2009 on 7145 kHz. However, since late 2009 it has not been heard on shortwave and is presumably inactive.

SOUTH AFRICA

SOUTH AFRICA BROADCASTING CORPORATION

The South African Broadcasting Corporation (SABC) is the state-owned broadcaster in South Africa. The SABC was established by an Act of Parliament in 1936 taking over from the African Broadcasting Company which had been responsible for some of the first radio broadcasts in South Africa in the 1920s. The SABC established services in what were then the country's official languages, English and Afrikaans, with broadcasts in ethnic languages following later. The SABC's first commercial service, started in 1950, was known as Springbok Radio, broadcasting in English and Afrikaans. In 1966 the SABC also established an external service, known as Radio RSA. It is now known as Channel Africa.

RADIO SONDER GRENSE

Radio Sonder Grense is an Afrikaans language radio service run by the SABC.

Transmitter Site: Meyerton - 100 kW

Times/UTC	Days	Language	Target	Freq/kHz
0500-0800	Daily	Afrikaans	Domestic (Northern Cape)	7285
0800-1700	Daily	Afrikaans	Domestic (Northern Cape)	9650
1700-0500	Daily	Afrikaans	Domestic (Northern Cape)	3320

CHANNEL AFRICA

Channel Africa is the international radio service of the SABC.

Transmitter Site: Meyerton - 100/250/500 kW.

Times/UTC	Days	Language	Target	Freq/kHz
0300-0400	Mon-Fri	English	East & Central Africa	5980
0300-0500	Mon-Fri	English	Southern Africa	3345
0500-0800	Mon-Fri	English	Southern Africa	7230
0600-0700	Mon-Fri	English	West Africa	15255
0800-1200	Mon-Fri	English	Southern Africa	9625
1200-1300	Mon-Fri	Nyanja	Southern Africa	9625
1300-1400	Mon-Fri	Lozi	Southern Africa	9625
1400-1500	Mon-Fri	Portuguese	Southern Africa	9625
1500-1600	Mon-Fri	English	Southern Africa	9625
1500-1600	Mon-Fri	Swahili	East Africa	15660
1600-1700	Mon-Fri	French	West Africa	15235
1700-1800	Mon-Fri	English	West Africa	15235

MEYERTON TRANSMITTING STATION

Operated by Sentechn, the signal distributor for the South African broadcasting sector. The organisation began operations in 1992 as the signal distributor of the South African Broadcasting Corporation. Sentechn now operates as a commercial enterprise that is owned by the Government of South Africa via the South African Ministry of Communications and has its own board of directors.

Transmitter Site: Meyerton - 100/250/500 kW

Times/UTC	Days	Station	Language	Target	Freq/kHz
0300-0400	Daily	BBC	English	Central Africa	6145
0300-0600	Daily	BBC	English	Southern Africa	3255 6190
0330-0345	Fri-Mon	TWR-Africa	Amharic	Horn of Africa	7215
0330-0345	Tue	TWR-Africa	Oromo	Horn of Africa	7215
0330-0345	Wed/Thu	TWR-Africa	Sidamo	Horn of Africa	7215
0400-0500	Daily	BBC	English	Central Africa	7310

0400-0500	Daily	R Okapi	French	DR Congo	11690
0430-0500	Daily	R France Int	Swahili	East Africa	7340
0500-0559	Daily	BBC	Kirundi/Kinyarw.	Great Lakes	11925
0500-0600	Daily	BBC	English	Central Africa	9410
0500-0700	Daily	R France Int	French	West Africa	11605
0530-0600	Daily	R France Int	Swahili	East Africa	11790
0600-0700	Daily	BBC	English	Central Africa	9860 12015
0600-0700	Daily	BBC	English	Southern Africa	6190
0700-0729	Daily	BBC	French	Central Africa	15490
0700-0800	Daily	BBC	English	Central Africa	17830
0700-0800	Daily	R France Int	French	West Africa	15170
0700-1500	Daily	BBC	English	Southern Africa	6190 12095
0800-0900	Sun	SA Radio League	English	East Africa	17570
0800-0900	Sun	SA Radio League	English	Southern Africa	7205
1200-1300	Daily	R France Int	French	Central Africa	17660
1500-1600	Daily	BBC	English	Central Africa	7435
1500-1600	Daily	BBC	English	Southern Africa	6190
1500-1600	Daily	R France Int	Swahili	East Africa	12015 15410
1600-1630	Sat	Voice of America	Kirundi/Kinyarw.	Great Lakes	11645
1600-1700	Daily	Family R	Malagasy	Madagascar	6100
1600-2200	Daily	BBC	English	Southern Africa	3255 6190
1625-1640	Sun	TWR-Africa	Somali	Horn of Africa	9660
1625-1655	Mon-Fri	TWR-Africa	Somali	Horn of Africa	9660
1630-1700	Fri	Voice of America	Portuguese	Southern Africa	9805
1630-1730	Mon	SA Radio League	English	Southern Africa	3230
1700-1730	Daily	Adventist World R	Swahili	East Africa	9600
1700-1730	Daily	Voice of America	English	West/Central Africa	6080
1700-1733	Daily	R France Int	Portuguese	Southern Africa	9910
1700-1900	Daily	SW Radio Africa	English	Southern Africa	4880
1718-1733	Daily	TWR-Africa	Yao	Southern Africa	7265
1730-1800	Daily	Adventist World R	Masai	East Africa	9600
1730-1800	Daily	IBRA R	Somali	Horn of Africa	11610 11740
1800-1830	Daily	Adventist World R	English	Southern Africa	3215 3345
1800-1830	Daily	BBC	French	Indian Ocean Is.	6095
1800-1830	Daily	Voice of America	English	West/Central Africa	9850
1800-1900	Daily	Family R	English	Southern Africa	5905
1830-1900	Daily	Adventist World R	English	East Africa	11840
1830-2030	Daily	Voice of America	English	West/Central Africa	6080
1900-1933	Daily	R France Int	Portuguese	Southern Africa	5950
1900-2000	Daily	Family R	Portuguese	Southern Africa	3955 6100
1900-2000	Daily	Family R	Swahili	East Africa	5930
1930-2030	Daily	RTE	English	Central Africa	5820

SOUTH SUDAN

SOUTH SUDAN RADIO

South Sudan Radio is the government-operated broadcasting service in South Sudan, which became independent on 11 July 2011. It operates on mediumwave and FM only.

RADIO PEACE

Radio Peace was a Christian radio station that began broadcasting in 2003. The lead organisations were Educational Media Corporation and the Persecution Project Foundation, along with various other support groups. It operated on two shortwave frequencies (4740 and 5895 kHz) but is now believed to be inactive. This may be partly explained by an item from October 2009 that Jari Savolainen found at www.globalendeavor.org which said that a move was under way to relocate Radio Peace from a border area in the arid bush where it has operated since 2003 to Juba. This involved moving three radio transmitters, antenna systems, towers, generators, and studio equipment. It appears that Radio Peace has not been heard on shortwave since this proposed relocation began.

TARGET BROADCASTS TO SOUTH SUDAN

VOICE OF AMERICA - SOUTH SUDAN IN FOCUS

Voice of America's "Sudan in Focus" programme (now called "South Sudan in Focus") was first aired on 23 September 2010 and VOA's expansion of its Sudan programming reflects growing US interest in the newly-independent South Sudan.

Transmitter Sites: Nauen - 125 kW; Wertachtal, Germany - 250 kW.

Times/UTC Days Language Target Freq/kHz

1630-1700 Mon-Fri Sudanese English Sudan 9490-nau 11655-wer 13800-wer

VOICE OF SOUTH SUDAN REVOLUTIONARY RADIO

Voice of South Sudan Revolutionary Radio is thought to broadcast on behalf of the South Sudan Liberation Army in opposition to the current government of the newly-independent South Sudan. It was first observed on 19 April 2012.

Transmitter Site: to be confirmed, possibly broadcasting from a transmitter in Sudan.

Times/UTC Language Target Freq/kHz

morning (0358 sign-on) Arabic/English/South Sudanese langs South Sudan 11650 / 15650 / 15725

evening (c1800-2200+) Arabic/English/South Sudanese langs South Sudan 11650 / 15650 / 15725

Note: check all three frequencies for possible reception; exact schedule still to be determined.

SUDAN

SUDAN RADIO AND TELEVISION CORPORATION - SUDAN RADIO

SRTC is the state-controlled broadcasting service in Sudan with main studios in Omdurman.

Transmitter Site: Omdurman (Al-Aitahab) - 100 kW.

Times/UTC Days Programme Language Target Freq/kHz

0200-1300 Daily General Programme Arabic Domestic 7200

1300-2100 Daily Radio As-Salam (Peace) Arabic Domestic 7200

Note: schedule as per WRTH 2012. Observations by DXers indicates that Sudan Radio has been heard between 0235v-0430 and 1500-2100.

TARGET BROADCASTS TO SUDAN

RADIO AFIA DARFUR

Afia Darfur, an all-news and information programme, is operated from the MBN (Middle East Broadcast Network) facility in Virginia and is funded by a grant from the US State Department to the BBG (Broadcasting Board of Governors - U.S. Congress). It began broadcasting to Darfur and eastern Chad on 29 September 2008 and focuses on the latest news from Darfur and the plight of its internally displaced people and Darfuri refugees in eastern Chad and the diaspora.

Transmitter Sites: Moepeng Hill, Botswana - 100 kW; Nauen, Germany - 250 kW;

Pinheira Sao Tome - 100 kW; Santa Maria di Galeria, Vatican - 250 kW; Wertachtal, Germany - 250 kW

Times/UTC Days Language Target Freq/kHz

0300-0330 Daily Arabic Darfur/Sudan 6135-smg 7330-sao 9815-nau

1800-1830 Daily Arabic Darfur/Sudan 9815-nau 13715-sao 11745-smg

1900-1930 Daily Arabic Darfur/Sudan 9600-wer 9800-smg 11830-bot

MIRAYA FM

Miraya FM (Mirror FM) was launched on 30 June 2006 and is operated in partnership between the United Nations Mission in Sudan and Swiss journalists' organisation Fondation Hirondelle. They have studios in Juba and Khartoum and broadcast on 101 FM for Juba with several FM relay transmitters across Southern Sudan. As a result of the Sudanese government's reluctance to grant a licence to operate elsewhere in Sudan, Miraya FM started a regular shortwave service on 25 October 2007 via an IRRS-brokered transmitter believed to be located in Slovakia. As of A-11 transmissions are brokered by TDP via a transmitter at Simferopol in Ukraine.

Transmitter Site: Mykolaiv, Ukraine - 250 kW

Times/UTC Days Language Target Freq/kHz

0300-0600 Daily Arabic/English/Sudanese languages Sudan 11560-smf

SUDAN RADIO SERVICE

Sudan Radio Service (SRS) was developed by the Education Development Center (EDC), a US non-governmental organization that specialises in distance learning. SRS is supported by the USAID. The project duration is 2003-2011. Sudan Radio Service (SRS) is Sudan's first independent broadcast provider of news and information. SRS works in English, Arabic, and several other Sudanese languages, and focuses exclusively on issues and events in Sudan.

Transmitter Sites: Dhabbaya, UAE - 250 kW; Wofferton, UK - 300 kW.

Times/UTC	Days	Language	Target	Freq/kHz
0400-0500	Daily	English/Arabic/local languages	South Sudan	13720-dha
1500-1700	Daily	English/Arabic/local languages	South Sudan	17745-wof

SUDAN RADIO SERVICE - DARFUR PROGRAMME

This is separate from the main Sudan Radio Service and is for the troubled Darfur region of Sudan.

Transmitter Sites: Meyerton, South Africa - 100 kW; Woofferton - 300 kW.

Times/UTC	Days	Language	Target	Freq/kHz
0400-0500	Sat-Thu	Arabic/Vernaculars	Darfur/Sudan	11800-dha
1600-1700	Sat-Thu	Arabic/vernaculars	Darfur/Sudan	15500-wof

RADIO TAMAZUJ

Radio Tamazuj is an initiative of Free Press Unlimited and produces a special programme for people in the conflict areas between North and South Sudan, such as Abyei, Blue Nile and South Kordofan. Tamazuj means "across the border". Since November 2011 they have produced half an hour per week within the Radio Dabanga time slot, which from 5 January 2012 became a separate programme under the name of Radio Tamazuj for half an hour a day from 0400 to 0430 before the existing Radio Dabanga transmissions.

Transmitter Sites: Talata Volondy, Madagascar - 250 kW; Dhabbaya, UAE - 500 kW; Santa Maria di Galeria, Vatican - 250 kW.

Times/UTC	Days	Languages	Target	Freq/kHz
0400-0430	Daily	Arabic/Sudanese languages	Darfur/Sudan	11650-smg 15400-mdg 15550-dha

RADIO DABANGA

Radio Dabanga is part of the Radio Darfur Network, an initiative of Darfur Journalists to provide independent news and relevant information to the population of Darfur. It is led by Free Press Unlimited, which aims to promote the development of open and democratic societies, by supporting independent media in regions of conflict and countries in transition. It commenced shortwave transmissions in November 2008.

Transmitter Sites: Talata Volondy, Madagascar - 250 kW; Dhabbaya, UAE - 500 kW; Trincomalee, Sri Lanka - 250 kW; Santa Maria di Galeria, Vatican - 250 kW.

Times/UTC	Days	Languages	Target	Freq/kHz
0430-0600	Daily	Arabic/Sudanese languages	Darfur/Sudan	11650-smg 15400-mdg 15550-dha
1530-1630	Daily	Arabic/Sudanese languages	Darfur/Sudan	15150-mdg 15725-trm

SWAZILAND

TWR SWAZILAND

TWR Swaziland went on air on 1 November 1974 and broadcasts Christian programming to Africa.

Transmitter Site: Mpangela Range - 25/50/100 kW.

Times/UTC	Days	Language	Target	Freq/kHz
0255-0325	Mon-Fri	Ndebele	Zimbabwe	3200
0255-0310	Sat	Ndebele	Zimbabwe	3200
0255-0325	Sun	English	Zimbabwe	3200
0255-0325	Daily	Shona	Zimbabwe	3240
0325-0340	Daily	Ndau	Zimbabwe	3240
0342-0357	Daily	Lomwe	Mozambique	4775
0400-0430	Mon-Fri	German	Southern Africa	3200 4775
0400-0500	Sat/Sun	German	Southern Africa	3200 4775
0400-0445	Sat/Sun	Chewa	Malawai	5995
0430-0500	Mon-Fri	English	Southern Africa	3200
0430-0800	Mon-Fri	English	Southern Africa	3200

0602-0800	Daily	English	Southern Africa	6120
0500-0800	Daily	English	Central Africa	9500
0500-0800	Sat/Sun	English	Southern Africa	3200
1400-1415	Daily	Urdu	Pakistan	15360
1355-1425	Sat	Makhuwa	Mozambique	7315
1355-1425	Sun	Portuguese	Mozambique	7315
1425-1455	Daily	Portuguese	Mozambique	7315
1455-1510	Daily	Makua	Mozambique	7315
1510-1555	Daily	Lomwe	Mozambique	7315
1455-1525	Sun-Fri	Malagasy	Madagascar	9585
1440-1525	Sat	French	Madagascar	9585
1425-1455	Daily	English	Zimbabwe	4760
1455-1525	Daily	Ndebele	Zimbabwe	4760
1525-1555	Mon-Fri	Ndebele	Zimbabwe	4760
1525-1555	Sat/Sun	English	Zimbabwe	4760
1555-1625	Daily	Shona	Zimbabwe	4760
1545-1615	Sun	Shangaan	Mozambique	3200
1600-1630	Mon-Fri	Tshwa	Mozambique	3200
1600-1630	Sat	Ndau	Mozambique	3200
1615-1645	Sun	Ndau	Mozambique	3200
1630-1645	Mon/Thu	Portuguese	Mozambique	3200
1630-1645	Mo/Tu/Fr/Sa	Shangaan	Mozambique	3200
1645-1700	Daily	Ndau	Mozambique	3200
1557-1627	Mon-Fri	KiRundi	Burundi	15105
1630-1645	Mon/Tue	Amharic	Ethiopia	9500
1630-1700	Wed/Thu	Oromo	Ethiopia	9500
1645-1700	Sun-Tue	Oromo	Ethiopia	9500
1630-1645	Fri/Sat	Kambaata	Ethiopia	9500
1645-1700	Fri/Sat	Hadiya	Ethiopia	9500
1700-1730	Daily	Amharic	Ethiopia	9500
1700-1715	Sun	Amharic	Ethiopia	9500
1715-1745	Sun	Oromo	Ethiopia	9500
1730-1800	Mon-Fri	Oromo	Ethiopia	9500
1730-1800	Sat	Amharic	Ethiopia	9500
1800-1900	Daily	English	East Africa	9500
1700-1745	Daily	Swahili	East Africa	9475
1745-1815	Sat/Sun	Swahili	East Africa	9475
1700-2000	Daily	English	Southern Africa	3200
1700-2030	Sat	English	Southern Africa	3200
1750-1820	Mon-Fri	Umbundu	Angola	6130
1820-1835	Daily	Chokwe	Angola	6130
1835-1850	Daily	Umbundu	Angola	6130
1850-1905	Mon	Luvale	Angola	6130
1850-1905	Tue-Fri/Sun	KiKongo	Angola	6130
1850-1905	Sat	Portuguese	Angola	6130
1905-1920	Mon/Tue	Portuguese	Angola	6130
1905-1920	Wed	Luchazi	Angola	6130
1905-1920	Thu	Luvale	Angola	6130
1905-1920	Fri	Fiote	Angola	6130
1905-1920	Sat	Lunyaneka	Angola	6130
1905-1920	Sun	Kuanyama	Angola	6130
1920-1950	Daily	Portuguese	Angola	6130
1950-2005	Daily	Kimbundu	Angola	6130
2005-2020	Sun	Portuguese	Angola	6130
1905-1935	Daily	Lingala	DR Congo	9940
1935-1950	Daily	French	DR Congo	9450
1950-2020	Sat	French	DR Congo	9450

TANZANIA

RADIO TANZANIA

Radio Tanzania (now known as Tanzania Broadcasting Corporation), Dar-es-Salaam, is inactive on shortwave. The last shortwave frequencies reported were 5050v and 6105v kHz. In the late 1980's, for example, shortwave transmitters had carried both the domestic National and Commercial services, as well as a special Schools Service. Radio Tanzania External Service was discontinued in the early 1990's. This had also at one time or another carried programming on behalf of South Africa's ANC and Namibia's SWAPO movements.

TOGO

RADIODIFFUSION TOGOLAISE

Radiodiffusion Togolaise (Radio Lome) is the state-controlled broadcasting service in Togo. It was last reported on shortwave in 2003.

RADIO KARA

Radio Kara is a regional broadcasting station in Togo but is now inactive on shortwave.

TRISTAN DA CUNHA

RADIO TRISTAN DA CUNHA

Tristan da Cunha was served by a 40 watt shortwave transmitter, but Radio Tristan da Cunha left shortwave in 1991 in favour of FM only. The local radio station on the island is now called Atlantic FM

TUNISIA

RADIO TUNISIENNE

Radio Tunisienne is the state-controlled broadcasting service in Tunisia. The shortwave service consists of a relay of the National Channel in Arabic.

Transmitter Site: Sfax - 250/500 kW.

Times/UTC	Days	Language	Target	Freq/kHz
0300-0506	Daily	Arabic	North Africa/Middle East	9725 12005
0400-0626	Daily	Arabic	Europe	7275
0600-0806	Daily	Arabic	North Africa	7335
1600-2106	Daily	Arabic	North Africa/Middle East	12005 17735
1700-2106	Daily	Arabic	Europe	7225
2000-2306	Daily	Arabic	North Africa	7345

UGANDA

UBC RADIO

UBC Radio (Uganda Broadcasting Corporation) is the public broadcaster of Uganda. It is not currently heard on shortwave. The Red Channel in English and local languages that had operated on 4976 kHz (morning and evening) and 7195 kHz (daytime) has not been reported in 2012 and is presumed inactive. The Blue Channel in local languages that had operated on 5026 kHz (morning and evening) and 7110 kHz (daytime) has not been heard since 2007.

DUNAMIS SHORTWAVE

Dunamis Shortwave was constructed in 1996 and broadcasts Christian programming to Uganda and Southern Sudan.

Transmitter Site: Mukono - 1 kW.

Times/UTC	Days	Language	Target	Freq/kHz
1500-1900	Daily	English/Vernaculars	Uganda/Southern Sudan	4750

WESTERN SAHARA

NATIONAL RADIO OF THE SAHARAN ARAB DEMOCRATIC REPUBLIC

Operated by the Polisario Front in support of independence for Western Sahara. National Radio of the Saharan Arab Democratic Republic began shortwave transmissions in 1993. The shortwave transmitter is located in the south-western Algerian town of Tindouf, near to the border with Western Sahara. Shortwave transmissions were last heard on 6297 kHz but have not been reported since June 2011, presumably due to a transmitter problem. The station continues to be heard on mediumwave 1550 kHz.

ZAMBIA

ZAMBIA NATIONAL BROADCASTING CORPORATION - RADIO ZAMBIA

ZNBC is the state-controlled broadcasting service of Zambia. It operates two services on shortwave, Radio 1 in local languages and Radio 2 in English.

ZNBC RADIO 1

Transmitter Site: Lusaka - 100 kW

Times/UTC	Days	Language	Target	Freq/kHz
0245-2205	Daily	Vernaculars	Domestic	5915

Note: News in English (relay of Radio 2) at 0500, 0600(Mon-Sat), 1115 and 1800.

ZNBC RADIO 2

Transmitter Site: Lusaka - 100 kW

Times/UTC	Days	Language	Target	Freq/kHz
0245-2205	Daily	English	Domestic	6165

RADIO CHRISTIAN VOICE - THE VOICE AFRICA

Radio Christian Voice began broadcasting on 1 December 1994. The station carries Christian teachings and programmes on farming, education, health and children's affairs. Programming is mainly in English. The station operates from a farm 35 km outside Lusaka

Transmitter Site: Lusaka - 100 kW.

Times/UTC	Days	Language	Target	Freq/kHz
0500-1700	Daily	English	Southern Africa	6065
1700-2200	Daily	English	Southern Africa	4965 - relay of 1Africa at this time (see below)
2200-0500	Daily	English	Southern Africa	4965

1AFRICA - CVC AFRICA

1Africa Radio is a Christian radio station that broadcasts live via shortwave, satellite and FM/community radio stations over the continent of Africa. Shortwave broadcasts from Zambia commenced in late 2008.

Transmitter Site: Lusaka - 100 kW.

Times/UTC	Days	Language	Target	Freq/kHz
0600-2000	Daily	English	West Africa	17695
1700-2200	Daily	English	Southern Africa	4965
2000-2200	Daily	English	West Africa	13590

ZANZIBAR

ZANZIBAR BROADCASTING CORPORATION

Zanzibar Broadcasting Corporation is the state-run broadcasting station of Zanzibar. In 2010 the Zanzibar government merged Zanzibar Television and Voice of Tanzania-Zanzibar, forming the Zanzibar Broadcasting Corporation. ZBC has been back on shortwave with its regular schedule since April 2012, having been either irregular or absent since December 2009 as a result of problems with the power supply system on Zanzibar.

Transmitter Site: Dole - 50 kW.

UTC	Days	Language	Presumed Target	Freq/kHz
0300-0600	Daily	Swahili	East Africa	6015
1500-2100	Daily	Swahili	Arabian Peninsula	11735 (includes news in English at 1800)

ZIMBABWE

ZIMBABWE BROADCASTING CORPORATION - RADIO ZIMBABWE

The Zimbabwe Broadcasting Corporation (ZBC) is the state-controlled broadcaster in Zimbabwe.

Transmitter Site: Gwelo - 100 kW.

Radio Zimbabwe

Times/UTC	Days	Language	Target	Freq/kHz
daytime	Daily	Shona/Ndebele/English	Domestic	6045
nighttime	Daily	Shona/Ndebele/English	Domestic	3396

VOICE OF ZIMBABWE

Voice of Zimbabwe is the official external service from Zimbabwe first heard during 2007 but officially launched on 30 July 2010. Voice of Zimbabwe news programming has in the past been observed Monday-Friday at 1600-2000 UTC only, with the remainder of the time filled with continuous music.

Times/UTC	Days	Language	Target	Freq/kHz
daytime	Daily	English	Southern Africa	5975
nighttime	Daily	English	Southern Africa	4828

TARGET BROADCASTS TO ZIMBABWE

RADIO VOICE OF THE PEOPLE

Independent station financed by Soros Foundation, USIA Zimbabwe Forum, and Dutch foundation HIVOS

Transmitter Site: Talata-Volondry, Madagascar - 50 kW

Times/UTC	Days	Language	Target	Freq/kHz
0400-0500	Daily	English/Shona/Ndebele	Zimbabwe	9870
1600-1630	Daily	English/Shona/Ndebele	Zimbabwe	9445
1800-1900	Daily	English/Shona/Ndebele	Zimbabwe	7330

SW RADIO AFRICA

Independent radio station financed by London-based Zimbabwean exiles.

Transmitter Sites: Meyerton, South Africa - 100 kW.

Times/UTC	Days	Language	Target	Freq/kHz
1700-1900	Daily	English	Zimbabwe	4880

ZIMBABWE COMMUNITY RADIO

Zimbabwe Community Radio aims to provide a channel for communication on economic, political, social, cultural, and developmental issues that confront the Zimbabwean community.

Transmitter Site: Talata-Volondry - 250 kW

Times/UTC	Days	Language	Target	Freq/kHz
1600-1700	Daily	English/Ndebele/Shona	Zimbabwe	12115

VOICE OF AMERICA - STUDIO 7

Studio 7 has been providing Zimbabwe with objective and balanced radio news since 2003. It broadcasts up-to-the-minute reports on Zimbabwean politics, the economy, health, society, sports and the best Zimbabwean music.

Transmitter Sites: Moepeng Hill, Botswana - 100 kW; Talata Volondry, Madagascar - 250 kW;

Pinheira, Sao Tome - 100 kW; Iranawila, Sri Lanka - 250 kW.

Days	Times/UTC	Language	Target	Freq/kHz
Mon-Fri	1700-1730	Shona	Zimbabwe	4930-bot 7210-sao 12120-mdg
	1730-1800	English	Zimbabwe	4930-bot 7210-sao 12120-mdg
	1800-1830	Ndebele	Zimbabwe	4930-bot 7210-sao 12120-ira
	1830-1900	LiveTalk	Zimbabwe	7210-sao 12120-ira
Sat-Sun	1700-1720	Shona	Zimbabwe	4930-bot 7210-sao 12120-mdg
	1720-1740	English	Zimbabwe	4930-bot 7210-sao 12120-mdg
	1740-1800	Ndebele	Zimbabwe	4930-bot 7210-sao 12120-mdg

BRITISH DX CLUB

AFRICA ON SHORTWAVE

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Please send corrections and up-dates by email to: tony@bdxc.org.uk

AFRICALIST

For a complete and up-to-date frequency-order list of Sub-Saharan African radio stations broadcasting on shortwave, see Thorsten Hallman's highly recommended "africalist" at www.africalist.de.ms

DX LISTENING DIGEST

For the very latest shortwave news visit Glenn Hauser's World of Radio at www.worldofradio.com

BC-DX - WORLDWIDE DX CLUB TOP NEWS

Another excellent source for the very latest shortwave news is Wolfgang Büschel's BC-DX Top News which can be found on the website of the Worldwide DX Club at www.wwdxc.de