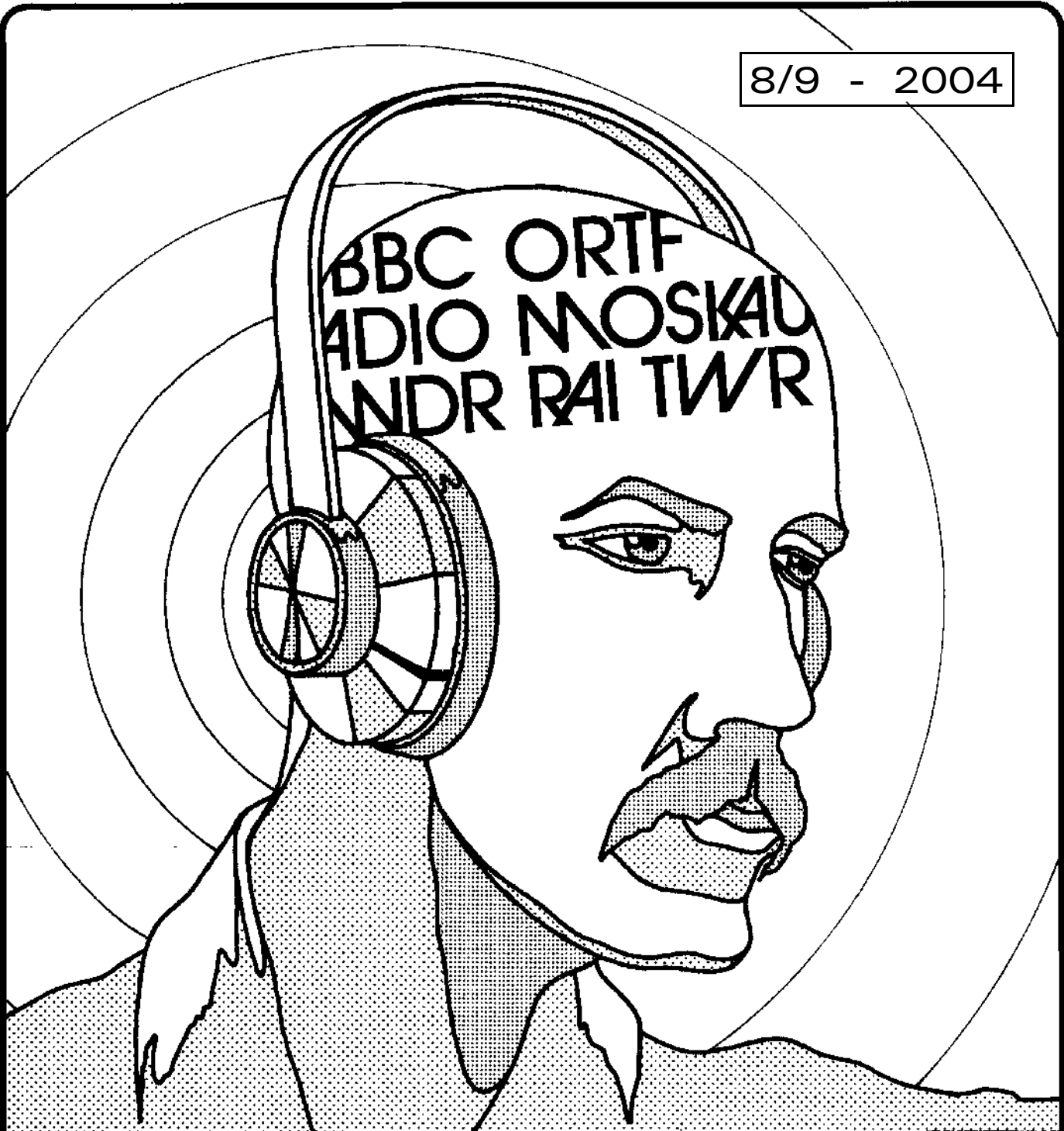


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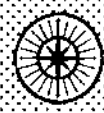


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WORLD WIDE DX CLUB



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- WORLDWIDE DX CLUB homepage in the Internet at: <http://www.wwdxc.de>
- Weekly "TopNews" by Wolfgang Büschel at: <http://topnews@wwdxc.de> (available also free of charge by E-Mail to our members on request)
- Latest DRM schedule at: <http://www.wwdxc.de/drm.htm>

WORLD RADIO TV HANDBOOK 2004

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DX MAGAZINE No. 8-9 · Vol. XXXIX · August/September 2004

Hello again,

Welcome to the annual summer double issue of our DX MAGAZINE. Like in the past years you will find our normal monthly sections, several articles and in addition our annual "List of Members".

The **14th Broadcast India 2004 Exhibition** will be held from 28 - 30 October at World Trade Centre Mumbai. More than 300 world's leading companies from 30 countries will showcase their products and latest technology in the conference. The exhibition will be preceded by a two-day symposium from 26 - 27 October. More than 21000 trade personnel from India as well as its neighboring countries are expected to visit the three-day exhibition, making this event the biggest and the best in India. All the leading manufacturers of the world like JVC, Panasonic, Apple, Seagate, Leitch/DPS, Matrox, Panther, Genelec, Canon, Benchmark, Da Vinci, AMS Neve, Cartoni, Cooke, Fujinon, Ciprico, AVID, Ikegami, Digidesign, Tascam, Yamaha, Tannoy, Softimage, Amek, Fairlight, Radio Computing Services to name just a few will exhibit wide range of products catering to the film, broadcast & multimedia Industry in three days of the exhibition. The world's best professionals will speak on various topics covering the fields of television, radio, video, audio, film, music, lights, Cable, satellite, multimedia, transmission, computer graphics, animation, broadband, internet and all the leading innovations from the infotainment industry in the two day symposium, which is attended by the crème de la crème of the professionals of the Indian trade, said an official release. For the fourth time this show will incorporate a technical Awards ceremony sponsored by Seagate International. On the evening of 28 October, 2004 "Seagate Technical Awards for Excellence in Digital Technology in the field of Cinema and Television" will be given to the best of professionals in this field, added the release.

(via Alokesh Gupta, New Delhi, India)

Für alle, die einmal das Betriebssystem Linux ausprobieren möchten, hat Hubert Fink, DG7MGY, eine **Amateurfunk-Knoppix-CD** zusammengestellt, basierend auf Knoppix V3.3 vom 24.09.03. Diese enthält neben der von der CD startenden Knoppix-Version (Voraussetzung ist, daß Ihr PC von CD booten kann) auch diverse Amateurfunk-Programme für Linux. Nähere Informationen zur CD finden Sie auf der Homepage von Hubert: <<http://hubert.fink.bei.t-online.de/knoppix.html>>. Ein ISO-Image dieser CD (700 MB) kann über folgenden Link geladen werden: <<http://www.afu-knoppix.de/download.php>>. Alle Mitglieder, die nicht über einen schnellen Zugang zum Internet verfügen, können aber auch von mir ein Exemplar dieser CD erhalten, die ich gerne für Sie brenne. Bei Interesse senden Sie bitte 2 Briefmarken à € 0,55 an unsere Klubadresse.

Am 25. September 2004 findet in Frankfurt ein Hörertreffen von Radio China International statt. Eine ausführliche Informationsseite von Siegbert Gerhard hierzu finden Sie in diesem DX MAGAZINE.

And with this best wishes and good DX until October from

A handwritten signature in black ink, appearing to be "Mig" or similar, written in a cursive style.

NEWS ABOUT BROADCASTING (+other) STATIONS

Dr. Juergen Kubiak · Goltzstr. 19 · D-10781 Berlin · GERMANY

ALASKA: *KNLS*, Anchor Point, Alaska - season schedule A04. Seasonal schedule valid August 29, 2004 to September 06, 2004:

UTC	kHz	Language	1300	11870	English
0800	11765	English	1400	9615	Mandarin
0900	11765	Russian	1500	9615	Mandarin
1000	11765	Mandarin	1600	9615	Mandarin
1100	9795	Russian	1700	9615	Russian
1200	11765	Mandarin			

(KNLS schedule at the web modified on 25. July 2004, via JKB)

ALBANIA: The new 2 x 100 kW SW Transmitter in Shijak radio station will be ready on August 5, 2004. (BC-DX #677 & DXLD #4-107, July 13, 2004)

Last week, all *Radio Tirana*'s txions via our Cerrik radio station are already transferred to our Shijak r/station, where the Chinese installed two new HF Tx, each 100 kW. Therefore, we are interested to receive from you, some new reception reports on Radio Tirana txions via Shijak r/station. We have always highly appreciate them. Cerrik r/station is totally rent by CRI for 15 years, where they will install soon six new HF Tx, each 150 kW, as I was told from the head of Cerrik r/station sometime ago. (Drita Cico, via Rudolf Krumm, via BC-DX #680, 2004 Aug 11)

But OM Wolfgang Bueschel logged only the 50 kW transmitters Cerrik-Durres. (WB, 2004 Aug 5)

ARMENIA: The *Voice of Armenia* A04 current external schedule.

Mon to Sat to Eu: 1745-1805 in F, 1805-1825 in G, 1825-1845 in E at 4810 and 9960 (1000 kW).

Sun in G at 0750 on 15270 kHz

[Web server at <<http://www.armradio.am/eng>> is unbelievable awful slow, Ed.]

(OBSERVER via Kai Ludwig 5.7.2004, Christer Brunstroem via Thomas Nilsson in GH's DXLD 1.7.2004, via HJB ntt 0407-2)

Sp Mon-Sat 0230-0245 on 9965 (Rumen PankovL, BC-DX #678, 2004 July 20)

AUSTRALIA: An Australian defense lobby group has called for significant extra funding for the *Australian Broadcasting Corporation*'s international service, Radio Australia, to promote national security. The Australian Defense Association says opinion polling in several Muslim countries has found ridiculous conspiracy theories about the 11 September terrorist attacks on the United States. The association says conspiracy theories help the spread of bigotry by Muslim extremists. It says the best counter to the views of extremist groups such as Al-Qa'idah is the truth, as offered by respected services such as Radio Australia. However, the Defense Association says Radio Australia is heard much less throughout the region because its best transmitters have been sold off. (RA via BBCM at ©RNMN June 30, 2004; via JKB)

Australian short wave broadcaster *Voice International* updated A04 schedule via Darwin, NT AUS (12S25 130E38) 250 kW. Christian Voice is a British based religious broadcaster which operates SW stations in Zambia (*1994), Chile (*1998) and Australia (* July 2000) and also applied for a local FM license in the UK Midlands. At World-Wide-Web <<http://www.voice.com.au>>. Postal address is: Voice International Ltd., Killick St, Kunda Park, QLD 4556, Australia. Program from Zambia and Australia is produced at the organizations headquarters in West Bromwich near Birmingham and fed to the stations by satellite. The Spanish programs from Chile are produced in Miami (Florida-USA). Christian Voice (Australia) Ltd. Postal Site Address: Cox Peninsula Transmitter Site, Via Darwin NT 0800, Australia. Fax # +61 (8) 8981 2846. Postal Address: PMB 5777, Darwin NT 0801, Australia.

Frequency	Start	Finish	Target				
Chinese				13685	0900	1400	China
17830	0700	0900	China	13635	1100	1800	India
13770	0900	1400	China	6115	1800	2100	India
13660	1400	1800	China	Indonesian			
15165	2200	0100	China	17820	0600	1000	Indonesia
English				15365	1000	1300	Indonesia
11955	0900	1100	India	7180	1300	1700	Indonesia
				15250	2300	0200	Indonesia

(Voice Int. Website via JKB, 18 Aug 2004)

BELARUS: Details of current Kalodzicy operation: *Belarussian Radio*.

1st Program

0300-2200 daily

6115 kHz, 75 kW, non-directional (for local listeners)

6080 kHz, 150 kW, to Ukraine

0400-0600 daily

11735 kHz, 250 kW, directed to Russia

0900-1000 daily

11960 kHz, 250 kW, directed to Russia

1500-1700

7105 kHz, 250 kW, directed to Russia

1500-1600, Mo-Fr, regional radio broadcasts instead of BR1

(open_dx - Sergey Alekseychik, Hrodna, Belarus, Signal July 15 2004 via DXLD 4-108)

CANADA: New additional transmission of Radio Canada International to SoEaUSA/ Cuba/ Haiti:

1000-1200 Mon-Fri French 17765 SAC 250 kW / 227 deg,co-ch DW Turkish 1030-1100

1000-1300 Sat/Sun French 17765 SAC 250 kW / 227 deg,co-ch DW Turkish 1030-1100

1500-1900 Mon-Fri French 17765 SAC 250 kW / 227 deg,co-ch VOA Kurdish 1600-1700

1600-1900 Sat/Sun French 17765 SAC 250 kW / 227 deg,co-ch VOA Kurdish 1600-1700

1900-2200 Daily English 17765 SAC 250 kW / 227 deg

2200-2400 Daily French 15300 SAC 250 kW / 227 deg

New schedule of Radio Canada International in Portuguese to Brasil:

2000-2030 Friday on 15225 and 17765 both SAC 250 kW / 163 deg >> cancelled

2100-2130 Friday on 15165 and 17740 both SAC 250 kW / 163 deg >> new txion

2330-2400 Sat/Sun on 11825 and 15455 both SAC 250 kW / 163 deg >> new txion*

* repeat Friday txion

(Ivo Ivanov and Angel Datzinov in OBSERVER # 320, via WB, 2004 July 13)

CHINA (Peoples Rep.): *China Radio International (CRI)* says it will expand its Urdu service from one hour to three hours daily for Pakistani listeners from Thursday 15 July. The Urdu service will be on the air for one-hour in the morning and two hours in the evening. "We have decided to expand our Urdu network in view of the growing Sino-Pakistan relations and the interest, being shown by the listeners," said an official of the CRI. Two additional high-powered transmitters have been installed near Pakistan's border in Xinjiang region to ensure clear reception. The new schedule is not yet on CRI's Web site. (©RNMN July 12, 2004; via JKB)

CUBA / VENEZUELA: Schedule of Radio Nacional de Venezuela in Spanish, via Radio Habana Cuba, valid until 10/30/2004. Postal address R. Nacional Venezuela "Canal Internacional", Sr. Director de la Onda Corta, Apartado 3979, Caracas 1010-A, Venezuela. E-mail: <ondacortavenezuela@hotmail.com>.

UTC	KHZ	TARGET
1800-1900	13740	San Francisco
1900-2000	9550	Carib
2005-2105	6000	Washington
2205-2305	9820	Chicago
2100-2200	11875	Chile
2000-2100	15230	Buenos Aires
2000-2100	17705	Rio de Janeiro

(Marcelo A. Cornachioni in CONEXION #276 via WWDXC-HQ; August 14, 2004)

DRM: Deutsche Welle is broadcasting 24 hours a day in DRM mode to Europe since mid August. Below please find a comprehensive schedule of all current DRM transmissions (except low power and regional transmissions on mediumwave and shortwave):

UTC	Days	KHz	Beam	Target	Power	Programme	Language	Site	Country
0100-0200	daily	6140	268	NE USA	70	China Radio	English	Sackville	Canada
0100-0200	daily	15525	320	N America West	10	RNW	English	Bonaire	Neth. Antilles
0300-0400	daily	11955	285	West USA	70	BBCWS	English	Sackville	Canada
0400-0500	Sat/Sun	15400	230	NZ + SE Australia	10	RNW	English	Bonaire	Neth. Antilles
0600-0900	daily	15780	240	W & C Europe	35	VoR	English	Taldom	Russia
0600-1000	daily	5975	ND	Europe	200	DW	various	Wertachtal	Germany
0600-1000	daily	21675	300	Near East	90	DW	English	Trincomale	Sri Lanka
0600-2400	daily	5990	ND	Europe	50	RTL DRM 2	French	Junglinster	Luxembourg
0600-2400	daily	6095	ND	Europe	50	RTL	various	Junglinster	Luxembourg
0700-1530	daily	15790	60	Europe	31	TDF	French	Issoudun	France
0800-1100	daily	15440	40	W & C Europe	90	DW Radio M	Music	Sines	Portugal
0900-1000	Sat	9815	ND	Europe	40	RNW	English	Flevo	Netherlands
0900-1100	Sun-Fri	9815	ND	Europe	40	RNW	English	Flevo	Netherlands
0900-1200	daily	15545	40	W & C Europe	90	DW	German	Sines	Portugal
0900-1200	daily	15780	240	W & C Europe	35	VoR	German	Taldom	Russia
0930-1300	daily	13620	310	Europe	120	Radio Kuwait	Arabic	Sulaibiyah	Kuwait
1000-1100	daily	6140	120	Europe	40	DW Radio M	Music	Juelich	Germany
1000-1100	Mon	9760	110	W & C Europe	33	Christian V.	English	Rampisham	Great Britain
1000-1100	Sat	9815	ND	Europe	40	TDP Radio	Music Mix	Flevo	Netherlands
1000-1500	daily	7320	105	Europe	33	BBCWS	English	Rampisham	Great Britain
1100-1200	daily	6140	120	Europe	40	DW	German	Juelich	Germany
1100-1200	daily	9815	ND	Europe	40	RNW	Dutch	Flevo	Netherlands
1100-1200	daily	15440	40	W & C Europe	90	DW	German	Sines	Portugal
1200-1230	Sun	9565	95	Europe	35	HCJB Just Jazz	English	Rampisham	Great Britain
1200-1300	daily	6140	120	Europe	40	DW Radio M	Music	Juelich	Germany
1200-1300	daily	9655	ND	Europe	200	DW Radio M	Music	Wertachtal	Germany
1200-1300	daily	9815	ND	Europe	40	RNW	English	Flevo	Netherlands
1200-1300	daily	15440	40	W & C Europe	90	DW Radio M	Music	Sines	Portugal
1300-1330	daily	9815	ND	Europe	40	RCI	English	Flevo	Netherlands
1300-1355	daily	15440	40	W & C Europe	90	DW	English	Sines	Portugal
1300-1359	daily	9655	ND	Europe	200	DW	English	Wertachtal	Germany
1300-1400	Sun	9565	95	Europe	35	BYU Radio	English	Rampisham	Great Britain
1300-1400	daily	15780	240	W & C Europe	35	VoR	Russian	Taldom	Russia
1315-1730	daily	9880	282	N Africa, Near East	120	Radio Kuwait	Arabic	Sulaibiyah	Kuwait
1330-1400	daily	9815	ND	Europe	40	RNW	English	Flevo	Netherlands
1400-1414	daily	9815	ND	Europe	40	Vatican Radio	German	Flevo	Netherlands
1400-1430	Fri	9770	95	Europe	35	RFI	English	Rampisham	Great Britain
1400-1430	Sat	9770	95	Europe	35	R. New Zealand Int.	English	Rampisham	Great Britain
1400-1500	daily	15780	240	W & C Europe	35	VoR	English	Taldom	Russia
1400-1559	daily	6180	ND	Europe	200	DW Radio M	Music	Wertachtal	Germany
1430-1500	Fri	9770	95	Europe	35	Wales Radio Int.	English	Rampisham	Great Britain
1430-1500	Sat	9770	95	Europe	35	Radio Australia	English	Rampisham	Great Britain
1500-1600	Sat	6015	ND	Europe	40	TDP Radio	Dance Music	Juelich	Germany
1500-1600	Fri	9770	95	Europe	35	Radio Taiwan Int.	English	Rampisham	Great Britain
1500-1600	daily	15780	240	W & C Europe	35	VoR	German	Taldom	Russia
1500-1800	daily	13790	40	Europe	90	DW	German	Sines	Portugal
1600-1630	daily	6140	120	Europe	40	DW Radio M	Music	Juelich	Germany
1600-1630	daily	7125	40	Europe	200	DW Radio M	Music	Wertachtal	Germany
1600-1700	Sat	11900	240	NE USA	70	TDP Radio	Dance Music	Sackville	Canada
1600-1700	Fri	9770	95	Europe	35	NHK	English	Rampisham	Great Britain
1600-1700	daily	15780	240	W & C Europe	35	VoR	French	Taldom	Russia
1600-1915	daily	1296	96	Netherlands	70	BBCWS	English	Orfordness	Great Britain
1630-1700	daily	6140	120	Europe	40	DW	English	Juelich	Germany
1630-1700	daily	7125	40	Europe	200	DW	English	Wertachtal	Germany
1700-1730	Sat	11900	240	NE USA	70	NASB	English	Sackville	Canada
1700-1730	daily	5955	ND	Europe	40	Radio Sweden	English	Flevo	Netherlands
1700-1759	daily	7125	40	Europe	200	DW	German	Wertachtal	Germany
1700-1900	daily	6140	120	Europe	40	DW	German	Juelich	Germany
1730-1800	daily	5955	ND	Europe	40	Radio Sweden	German	Flevo	Netherlands
1800-0600	daily	3995	ND	Europe	200	DW	German	Wertachtal	Germany
1800-1900	daily	15215	61	Russia	33	BBC	Russian	Rampisham	Great Britain
1800-1955	daily	15435	40	W & C Europe	90	DW	German	Sines	Portugal
1955-2030	daily	9800	268	NE USA	70	Vatican Radio	English	Sackville	Canada
2000-2100	Sat	7370	240	Europe	35	TDP Radio	Dance Music	Taldom	Russia
2030-2100	daily	9800	268	NE USA	70	RNW	English	Sackville	Canada
2100-2200	daily	9800	268	NE USA	70	RCI	English	Sackville	Canada
2100-2200	daily	15150	50	Europe	10	RNW	English	Bonaire	Neth. Antilles
2100-2200	daily	5980	40	W & C Europe	90	DW	German	Sines	Portugal
2115-2400	daily	1296	96	Netherlands	70	BBCWS	English	Orfordness	Great Britain
2200-0200	daily	11675	350	N America East	120	Radio Kuwait	Arabic	Sulaibiyah	Kuwait
2200-2230	daily	9800	268	NE USA	70	Deutsche Welle	English	Sackville	Canada
2200-2300	daily	15525	350	N America East	10	RNW	English	Bonaire	Neth. Antilles
2230-2300	daily	9800	268	NE USA	70	Radio Sweden	English	Sackville	Canada
2300-2400	daily	9800	268	NE USA	70	BBCWS	English	Sackville	Canada

(<http://www.drm-dx.de> / <http://www.wwdxc.de/drm.htm> - last modified: 16 August 2004)

EUROPE: Radio Free Europe - RFE / Radio Liberty - RL updated language schedules, unchanged language schedules see prior issue of DXM. Cause of a lot of changes, hard to compare each item, given the complete language schedules:

Afghan Service		0300-0400	7155	Su	1000-1100	11860	MoTuWeThFrSa
0230-0330	11945	Every day	0300-0400	7155	MoTuWeThFr	1000-1100	11860
0230-0430	17670	Every day	0300-0400	7155	Sa	1000-1100	15130
0330-0530	17670	Every day	0300-0400	7175	Su	1000-1100	15130
0330-0430	19010	Every day	0300-0400	7175	MoTuWeThFr	1000-1100	15460
0330-0830	19010	Every day	0300-0400	7175	Sa	1000-1100	15460
0530-0630	17710	Every day	0300-0400	7220	MoTuWeThFr	1000-1100	17730
0630-0830	17685	Every day	0300-0400	7220	Sa	1000-1100	17730
0730-1030	17685	Every day	0300-0400	7220	Su	1000-1100	17810
0730-1030	19010	Every day	0300-0400	9520	MoTuWeThFr	1000-1100	17810
0930-1430	17685	Every day	0300-0400	9520	Su	1000-1100	17890
0930-1330	19010	Every day	0300-0400	9520	Sa	1000-1100	17890
1330-1430	12140	Every day	0300-0400	11725	MoTuWeThFr	1100-1300	13745
1330-1430	17605	Every day	0300-0400	11725	Sa	1100-1300	15130
1330-1430	17685	Every day	0300-0400	11725	Su	1100-1300	15205
North Caucasus Service		0400-0500	5995	MoTuWeThFr	1100-1200	15460	Every day
0400-0500	9850	Every day	0400-0500	5995	SaSu	1100-1300	17730
0400-0500	11780	Every day	0400-0500	7220	SaSu	1100-1300	17890
0400-0500	15350	Every day	0400-0600	7220	MoTuWeThFr	1200-1300	15215
0400-0500	15460	Every day	0400-0500	7295	SaSu	1400-1500	9595
1700-1800	9805	Every day	0400-0500	7295	MoTuWeThFr	1400-1600	11725
1700-1800	11705	Every day	0400-0500	9520	SaSu	1400-1500	11880
1700-1800	17630	Every day	0400-0600	9520	MoTuWeThFr	1400-1600	11895
Iraqi Service		0400-0500	9760	SaSu	1400-1600	13755	Every day
0100-0300	7205	Every day	0400-0600	9760	MoTuWeThFr	1400-1500	15130
0100-0600	9730	Every day	0400-0500	11725	SaSu	1400-1600	15205
0100-0600	9865	Every day	0400-0500	11725	MoTuWeThFr	1400-1500	15215
0300-0400	11910	Every day	0500-0600	7220	SaSu	1500-1600	9725
0400-0600	11930	Every day	0500-0600	9520	SaSu	1500-1600	11885
1400-1700	9825	Every day	0500-0600	9760	SaSu	1600-1700	7220
1400-1500	13755	Every day	0500-0600	11815	SaSu	1600-1700	7220
1400-1700	15170	Every day	0500-0600	11815	MoTuWeThFr	1600-1700	9520
1400-1700	17740	Every day	0500-0600	12015	MoTuWeThFr	1600-1700	9520
1500-1900	11805	Every day	0500-0600	12015	SaSu	1600-1700	9725
1700-1800	9865	Every day	0500-0600	17695	SaSu	1600-1700	9725
1700-1800	15135	Every day	0500-0600	17695	MoTuWeThFr	1600-1700	11725
1800-1900	9505	Every day	0500-0600	17730	SaSu	1600-1700	11725
1800-1900	9740	Every day	0500-0600	17730	MoTuWeThFr	1600-1700	11885
Romanian Service		0600-0700	9520	Every day	1600-1700	11885	Su
1500-1530	7160	MoTuWeThFr	0600-0700	9635	Every day	1600-1700	13755
1500-1530	11905	MoTuWeThFr	0600-0700	9760	Every day	1600-1700	13755
1500-1530	15380	MoTuWeThFr	0600-0700	11815	Every day	1900-1930	3965
1800-1900	7130	MoTuWeThFr	0600-0700	15130	Every day	1900-2000	3965
1800-1900	12025	MoTuWeThFr	0600-0700	17695	Every day	1900-1930	6105
Russian Service		0600-0700	17730	Every day	1900-2000	6105	Su
0000-0100	6095	Every day	0600-0700	17810	Every day	1900-1930	7220
0000-0100	7120	Every day	0700-0800	9635	MoTuWeThFrSa	1900-2000	7220
0000-0100	7170	Every day	0700-0800	9635	Su	1900-2000	9520
0000-0100	7220	Every day	0700-0800	11815	MoTuWeThFrSa	1900-2000	9520
0000-0100	9520	Every day	0700-0800	11815	Su	1900-1930	11865
0200-0300	6105	MoTuWeThFr	0700-0800	11860	Su	1900-2000	11865
0200-0300	6105	SaSu	0700-0800	11860	MoTuWeThFrSa	1900-2000	11885
0200-0300	7155	MoTuWeThFr	0700-0800	15130	MoTuWeThFrSa	1900-2000	11885
0200-0300	7155	SaSu	0700-0800	15130	Su	1930-2000	3965
0200-0300	7170	MoTuWeThFr	0700-0800	17810	MoTuWeThFrSa	1930-2000	6105
0200-0300	7170	SaSu	0700-0800	17810	Su	1930-2000	7220
0200-0300	7220	MoTuWeThFr	0700-0800	21705	MoTuWeThFrSa	1930-2000	11865
0200-0300	7220	SaSu	0700-0800	21705	Su	2000-2100	3965
0200-0300	7275	MoTuWeThFr	0800-1000	11860	Every day	2000-2100	5955
0200-0300	7275	SaSu	0800-1000	15280	Every day	2000-0000	7220
0200-0300	9520	MoTuWeThFr	0800-1000	17810	Every day	2000-2200	7260
0200-0300	9520	SaSu	0800-0900	21705	Every day	2000-0000	9520
0300-0400	6105	Su	0900-1000	17730	Every day	2000-2100	9860
0300-0400	6105	MoTuWeThFr	1000-1100	11725	MoTuWeThFrSa	2100-2200	6040
0300-0400	6105	Sa	1000-1100	11725	Su	2100-2200	7155

2100-2300	7245	Every day	1800-1900	9505	Every day	1700-1800	9855	Every day
2200-0000	5985	Every day	1800-1900	9855	Every day	1700-1900	11805	Every day
2200-0000	6095	Every day	1800-1900	11715	Every day	1700-1800	12035	Every day
2200-2300	9590	Every day	1800-1900	15120	Every day	1700-1800	15115	Every day
2300-0000	7120	Every day	2000-2100	5970	Every day	1700-1800	15135	Every day
2300-0000	7170	Every day	2000-2100	7165	Every day	1800-1900	7165	Every day
South Slavic Service			2200-0000	6130	Every day	1800-1900	11785	Every day
0730-0800	9555	Every day	2200-0000	9635	Every day	1800-1900	11875	Every day
0730-0800	11970	Every day	2200-0000	11730	Every day	1900-2000	9615	MoTuWeThFrSu
0730-0800	15260	Every day	Ukrainian Service			1900-2000	11695	MoTuWeThFrSu
1300-1330	9555	Every day	0300-0400	6065	MoTuWeThFrSa	1900-2000	11875	MoTuWeThFrSu
1300-1330	11795	Every day	0300-0400	7115	MoTuWeThFrSa	Uzbek Service		
1300-1330	15255	Every day	0300-0400	9710	MoTuWeThFrSa	0200-0400	12015	Every day
1300-1330	17605	Every day	0500-0600	7115	MoTuWeThFr	0200-0400	12110	Every day
1600-1700	6040	Every day	0500-0600	7165	MoTuWeThFr	0200-0400	21770	Every day
1600-1700	7115	Every day	0500-0600	11780	MoTuWeThFr	1600-1800	9595	Every day
1600-1700	11925	Every day	1600-1700	6185	MoTuWeThFr	1600-1700	11835	Every day
1730-1800	6130	Every day	1600-1700	9725	MoTuWeThFr	1600-1800	11980	Every day
1730-1800	9625	Every day	1600-1700	11805	MoTuWeThFr	1700-1800	11815	Every day
1730-1800	15245	Every day	1600-1700	17825	MoTuWeThFr			

(RFE/RL website last modified 31 July 2004, via JKB)

GREECE: You might think the Olympics would provide a golden opportunity for *Voice of Greece* to expand its external service with more foreign languages or at least more time for the existing languages. Quite the contrary! This item says all foreign language services are being suspended for the month of August, and Epsilon Rho Alpha on shortwave will only be carrying the Sigma Pi Omicron Rho Tau network in Greek for the duration. (GH, DXLD #4-110, July 19, 2004)

INDIA: The officials of *AIR Super Power SW Transmitters at Bangalore* (6x500 kw) would like to get some feedback reports on their transmissions from listeners in Europe. Those interested may please contact Mr.R.Narasimha Swamy, Superintending Engineer at the following Email id for their exact schedules: <narasimhaswamy@yahoo.com>. Please find Jose Jacob's report about this station later in this DX MAGAZINE. (Jose Jacob <vu2jos@yahoo.co.in>, Hyderabad, India, August 24, 2004)

IRAN: A04 schedule *Voice of the Islamic Republic of Iran - VOIRI* Tehran. Postal address: Islamic Republic of Iran Broadcasting, Vali-e asr Ave, Jame Jam St., P.O. Box 19395-6767, Teheran. For German language service: IRIB Deutsches Programm (German Service), Bundespressehaus, Zimmer 1305, Schiffbauerdamm 40, D-10117 Berlin, Germany. eMail: <IRIBWORLD@IRIB.COM>, Internet: <http://www.irib.com>.

Updated summer A04 schedule for VOIROI/IRIB:

ALBANIAN	0630-0727	15235	15340				
	1830-1927	9545	9570				
	2030-2127	9535	11775				
ARABIC	0330-0427	9610	11875	"Voice of Islamic Palestinian Revolution"			
	0330-1157	13790	registered till	1027			
	0530-1627	15150					
	1630-1927	9935					
	1930-2027	9935	"Voice of Islamic Palestinian Revolution"				
	2030-0527	9935					
ARMENIAN	0300-0327	11860					
	0930-0957	9695	15260				
	1630-1727	7230	9780				
AZERI	0330-0527	13710					
	1430-1657	6200					
BENGALI	0030-0127	9855	9890				
	0830-0927	11705					
	1430-1527	7305	9520	9810	12015		
BOSNIAN	0530-0627	15235	15340				
	1730-1827	7295	9835				
	2130-2227	9810	11875				

CHINESE	1200-1257	17535	21460	21490	21630
	2330-0027	13715	15230	15450	till July 31
	2330-0027	11735	12000	13715	from August 1
DARI	0300-0627	13740			
	0830-1157	13720			
	1200-1457	9910			
ENGLISH	1030-1127	15600	17660		
	1530-1627	9635	11650		
	1930-2027	9800	11750		
FRENCH	0630-0727	17560	17590		
	1830-1927	13755			
HAUSA	0600-0657	17810	21810		
	1830-1927	11860	11930		
HEBREW	0430-0457	9610	11875	additional transmission	
	1900-1927	3985	5970		
HINDI	0230-0257	15165	17635		
	1430-1527	11695	12030	13805	
JAPANESE	1300-1327	15555	17810		
KAZAKH	0130-0227	11665	11935		
	1300-1357	11665	13755		
KURDISH	0330-0427	11920	Sorrani	dialect	
	1330-1427	5990	Sorrani	dialect	
	1430-1627	5990	Kirmanji	dialect	
MALAY	1230-1327	15200	17555		
	2230-2327	9685	9830		
PASHTO	0230-0327	7130	9605		
	0730-0827	15440			
	1230-1327	6175	9790	11730	
	1430-1527	7270			
	1630-1727	6015	7195		
RUSSIAN	0300-0327	9650	11925		
	0500-0527	11870	15215	17595	17660
	1430-1527	7165	9580	9900	
	1700-1757	6210	7175		
	1800-1857	6205	7260		
	1930-2027	3985	7175		
SPANISH	0030-0127	9655	9905	11610	
	0130-0227	9655	9905	11610	
	0230-0327	9905			
	0530-0627	15530	17785		
	2030-2127	9650	11760		
SWAHILI	0330-0427	15265	15340		
	0830-0927	17660	17690		
	1730-1827	9655	11995		
TAJIK	0100-0227	9740			
	1600-1727	5955			
TURKISH	0430-0557	15260	15365		
	1600-1727	7165	9915		
URDU	0130-0227	7130	11880	11965	
	1330-1427	6175	9665	11695	
	1530-1727	7270			
	1730-1757	7220	9530		
UZBEK	0230-0257	9740			
	1500-1557	5955	(OBSERVER #320 via WB, July 13, 2004)		

IRELAND: The *Democratic Voice of Burma (DVB)* radio station that currently operates from Norway may move its broadcasting base to Ireland, a spokesman said today. "We at DVB feel that working from within an EU country with a strong commitment to human rights and education would be of even greater benefit to us," said Deputy Director Khin Maung Win. "The people of Ireland have always shown great solidarity for the plight of the people in Burma and we hope that an agreement can be arrived at," he added on a visit to Ireland. DVB broadcasts an hour of programmes twice daily into Burma, now named Myanmar, presenting the views of the opposition National Coalition Government of the Union

of Burma (NCGUB) and the Democratic Alliance of Burma (DAB). Khin Maung Win said the radio had been operating from Oslo for 12 years and they were grateful for the Norwegian government's support. (©RNMN August 05, 2004; via JKB)

ISRAEL: The *Israel Broadcasting Authority's* decision to move its English news from the Reshet Aleph network to Reshet Reka, the network for immigrants, has resulted in a lot of criticism. The critics say that Reshet Reka - which broadcasts for the most part in Russian and Amaharic - has poor reception in certain parts of the country, including Eilat, the Galilee, and certain parts of the Sharon. One source in the IBA said the decision would be a "death blow" that would "wipe out the bulk of listeners." These include foreign journalists and diplomats. The decision seems to have been a hasty one - made on Tuesday, communicated to IBA English news employees on Friday, and will be implemented on 1 August (earlier reports said 1 September). The change also goes against a letter from Communications Minister Ehud Olmert dated September 2003 in which he gave the English news staff a written promise that the broadcasts would not be changed. Neither the Minister nor the IBA have so far responded to enquiries on the matter. (Source: Haaretz via ©RNMN July 26, 2004; via JKB)

LEBANON: The *Voice of the Charity*, is a catholic religious transmitter that daily transmits in Arabic from 0430 to 0500 UTC at 11715 KHz. (Marcelo A. Cornachioni in CONEXION #272 via WDXC-HQ; July 17, 2004)

MALTA: It seems that the issue of the *Voice of the Mediterranean*, the Maltese-based international broadcaster that closed down some months ago, is not completely dead. Press reports from Malta say that the station was one of the items on the agenda of a two-day meeting held by the Maltese Minister of Foreign Affairs and Investment Promotion in Tripoli. Amongst others, the Minister met with the Libyan leader's son, Mohammed Gaddafi. (©RNMN June 28, 2004; via JKB)

MISCELLANEOUS: One of the greatest radio broadcasters in the UK died today after finally losing his battle against throat cancer. *Tony Allan* was not only admired, but was loved by countless people who heard his broadcasts. He started his career on the offshore station Radio Scotland, and later worked for Radio Northsea International, Radio Caroline and the Voice of Peace. (©RNMN July 09, 2004; via JKB)

Adventist World Radio today broadcasts the 500th edition of *Wavescan*, its programme for radio hobbyists. Wavescan has been on the air weekly since 1995, and today's edition features an interview with Dr. *Adrian Peterson*, the international shortwave expert who has written, produced and presented every edition. Today's programme will also look at how AWR first got onto the international airwaves. AWR promises to verify correct reception reports with a specially endorsed QSL card. (©RNMN August 01, 2004; via JKB)

Surf in' at the *Internet* you will see a lot of pages in a language other than English like Spanish, Italian, Russian, Japanese, Korean, French, Chinese or Portuguese. To translate this pages to English, there is a free service for translation of websites and short text: <<http://babelfish.altavista.com>>. Often you will be informed, when a web page is changed, so you can use the free service <<http://www.watchcat.de>>. After free registration (this is a German server, but the pages are in English) you type in the URL's to be watched, is there any change, you will receive an email. The URL's will be watched each day. Another goodie to for Windows users is the program WYSIGOT <<http://www.wysigot.com>>, an off-line reader: you type in the URL's of the web pages to be downloaded to your local hard drive. Then you set the time intervals, WYSIGOT will look again at these web pages. If they are changed, WYSIGOT will download again the new changed page. Because you can hold the older version of the web page, you can highlight the changes oft text at the two pages. So you will be informed, which words or numbers (like frequencies or transmission hours) changed at the page. At WYSIGOT there is a light program version for free, you can download and use. Babelfish translation, Watchcat service and the program WYSIGOT are very useful, I use them often when compiling the DXM news. (JKB)

Thales has been recently contracted for the *delivery of shortwave equipment* and services for two customers in the Asian area. Betar in Bangladesh has ordered a new 100 kW

shortwave transmitter and auxiliaries for its station in Savar near Dhaka. BECIL, India, has also ordered a 100 kW shortwave transmitter and site material for a NEW station. The Thales 100 kW shortwave transmitter type TSW 2100 is fully capable of digital DRM operation. With the PSM part built into the transmitter, this model is a very cost effective solution for near distance shortwave broadcasting. Both new stations are scheduled to go on air early 2005. Transmitters and site material will be delivered end of this year. (THALES Radio News, issue 16, summer 2004; <http://www.thales-bm.com>, via WB, 2004 July 26)

English shortwave broadcasts sorted by time. With Credits to PRIME TIME SHORTWAVE <<http://primetimeshortwave.com>> and Daniel Sampson <dsampson@triwest.net>, who last updated on July 12, 2004 to version A04v15. This shortwave schedule list is intended for personal use only. Any other use without giving credit to or getting permission from Daniel Sampson, dsampson@triwest.net, and giving credit to the Prime Time Shortwave website is strictly prohibited.

Relay site codes: ae-United Arab Emirates, an-Antigua, as-Ascension, bo-Bonaire Neth. Antilles, ca-Sackville Canada, ch-China, cu-Cuba, de-Delano USA, fg-French Guiana, fr-France, ga-Gabon, ge-Germany, gr-Greenville USA, it-Italy, ka-Kazakhstan, ma-Madagascar, mo-Moldova, ne-Netherlands, po-Sines Portugal, ru-Russia, rw-Rwanda, si-Singapore, sl-Sri Lanka, sp-Spain, sw-Sweden, ta-Taiwan, uk-United Kingdom, uz-Uzbekistan, wr-WRMI USA, wy-WYFR USA, za-South Africa:

Days of week: Su-Sunday, M-Monday, Tu-Tuesday, W-Wednesday, Th-Thursday, F-Friday, Sa-Saturday;

Target areas: Af-Africa, Am-America, As-Asia, Au-Australia, Eu-Europe, In-India, Ja-Japan, LA-Latin America, ME-Middle East, NA-North America, Oc-Oceania, SA-South America, UK-United Kingdom.

Other: drm-DRM, occ-occasional use

PART 1 (0000-1400 UTC) see DXM 7-2004 (last month)

PART 2 (1400-2400 UTC)

UTC	Target/Day	Country	Station	Frequencies
1400-1430	As, Oc	Thailand	R. Thailand	9830
1400-1500	NA	China	China R. Int'l	7405, 13680
1400-1500	NA,Af,As	Japan	R. Japan	7200, 11730, 11840sl
1400-1500	Af,ME,As	France	R. France Int'l	7175, 9580, 11610ch, 17515, 17620
1400-1500	As, Oc	U. S. A.	V. of America	6160, 7125, 9760, 15160, 15425
1400-1500	As, Oc	Netherlands	R. Netherlands	9890, 11835, 12075
1400-1500	Am	Mexico	R. Mexico Int'l	9705, 11770
1400-1500	Af	South Africa	Channel Africa	11825
1400-1500	NA	U. S. A.	KTBN	7505, 15590
1400-1500	ME	United Kingdom	BBC	15565, 15575, 17640
1400-1500	Af	United Kingdom	BBC	6190, 11940, 17830, 17885, 21470, 21660
1400-1500	As	United Kingdom	BBC	6195, 7105, 9740, 15310, 17790
1400-1500	As	Taiwan	Taiwan R. Int'l	15265
1400-1500	As, Eu	Russia	V. of Russia	7390, 9745, 12055, 15605, 15780 drm, 17645
1400-1500	As	Oman	R. Oman	15140
1400-1500	Eu	Germany	Pan American B/C	15650
1400-1500	NA,LA,As	U. S. A.	WYFR	6155ta, 11830, 11970, 17750
1400-1500	NA	U. S. A.	WEWN	7425, 7520, 9355, 9955, 15745
1400-1500	As	China	China R. Int'l	11675, 11765
1400-1500	Af	Libya	V. of Africa	21675fr
1400-1500	As,Th-Su	United Kingdom	Bible Voice	7485uz
1400-1600	NA	U. S. A.	WBCQ	7415, 9330, 17495
1400-1600	As, Oc	Australia	R. Australia	5995, 6080, 7260, 9590, 9475, 9805, 11660, 11750
1400-1600	Am	U. S. A.	WRMI	7385, 15725
1400-1600	NA, Af, As	China	China R. Int'l	9610 drm
1400-1700	LA	United Kingdom	BBC	15190
1415-1430	As	Nepal	R. Nepal	3230, 5005, 6100, 7165
1430-1500	As,Sa-Su	United Kingdom	Bible Voice	5890ru

1500-1528	Eu, As	Vietnam	V. of Vietnam	7285, 9840, 12020
1500-1530	Eu	Mongolia	V. of Mongolia	9720
1500-1530	Af	United Kingdom	BBC	6190, 11860, 11940, 15400, 15420, 17830, 21470, 21490, 21660
1500-1530	Eu	Hungary	R. Budapest	6025, 9715
1500-1557	As	Canada	R. Canada Int'l	15455ch, 17720ch
1500-1600	NA	U. S. A.	WEWN	9955, 11530, 15745
1500-1600	As, Oc	U. S. A.	V. of America	7125
1500-1600	NA, As	U. S. A.	WYFR	6155ta, 11830, 17750
1500-1600	NA	China	China R. Int'l	13740
1500-1600	Af	South Africa	Channel Africa	17770
1500-1600	As	United Kingdom	BBC	5975, 6195, 7105, 9740, 15310, 17790
1500-1600	NA,As,Oc	Japan	R. Japan	6190, 7200, 9505, 11730
1500-1600	As, ME	Russia	V. of Russia	4940, 4965, 4975, 7325, 7390, 11500, 11985
1500-1600	ME	United Kingdom	BBC	15565
1500-1600	Af	U. S. A.	V. of America	6160, 9590, 9760, 9845, 12040, 15550
1500-1600	Eu	Germany	Pan American B/C	15650
1500-1600	As	Seychelles	FEBA	7365ru
1500-1600	As	Guam	KTWR	12105
1500-1600	NA, Eu	North Korea	V. of Korea	4405, 9335, 11710, 13760, 15245
1500-1600	As	China	China R. Int'l	7160, 9785
1500-1600	As, Su	United Kingdom	Bible Voice	17510ge
1500-1700	Am	U. S. A.	WHRI	13760, 15105
1500-1800	NA, Af, As	China	China R. Int'l	13640
1500-2200	NA	U. S. A.	WWCR	9475, 12160, 13845, 15825
1500-2300	NA	U. S. A.	WHRA	17650
1500-2400	As	U. S. A.	KVOH	17775
1500-2400	NA	U. S. A.	KTBN	15590
1505-1530	NA, Sa-Su	Austria	R. Austria Int'l	13775ca
1510-1525	NA, M-F	Austria	R. Austria Int'l	13775ca
1515-1530	As, Oc	Vatican City	Vatican R.	12065, 13765, 15235
1515-1800	ME, Su	United Kingdom	Bible Voice	15680ge
1530-1550	As,Oc,Sa	Vatican City	Vatican R.	12065, 13765, 15235
1530-1600	As	United Arab Em	AWR	15225
1530-1600	As	Georgia	Georgia R.	6180
1530-1600	As,M,W-Sa	United Kingdom	Bible Voice	17510ge
1530-1630	As	Iran	VOIRI	9635, 11650
1530-1630	Af	United Kingdom	BBC	6190, 11940, 15400, 17830, 21470, 21660
1535-1600	NA, Sa-Su	Austria	R. Austria Int'l	13775ca
1540-1555	NA, M-F	Austria	R. Austria Int'l	13775ca
1545-1615	ME,M,W,F	United Kingdom	Bible Voice	15680ge
1545-1645	ME, Th	United Kingdom	Bible Voice	15680ge
1545-1715	ME, Tu	United Kingdom	Bible Voice	15680ge
1545-1830	ME, Sa	United Kingdom	Bible Voice	15680ge
1600-1615	Af, ME	Pakistan	R. Pakistan	11570, 11850, 15100, 15725
1600-1627	Eu, Af	Czech Republic	R. Prague	5930, 17485
1600-1628	As,Af,ME	Vietnam	V. of Vietnam	7220, 9550, 11630, 13740
1600-1630	As	Guam	AWR	15235
1600-1635	Eu, Af	United Arab Em	Emirates R.	13630, 13675, 15395, 21605
1600-1657	NA, Af, As	China	China R. Int'l	9440, 13730
1600-1659	As	Germany	Deutsche Welle	6170sl, 7225sl, 17595
1600-1700	Eu, ME	U. S. A.	V. of America	9700, 15205, 15255
1600-1700	Af	U. S. A.	V. of America	9850, 15225, 15410, 15580
1600-1700	Af	France	R. France Int'l	6010ae, 6170ae, 9730za, 11615, 15160za, 15605
1600-1700	As, Oc	U. S. A.	V. of America	6160, 7125, 9760
1600-1700	NA, Eu, As	U. S. A.	WYFR	6085, 6155ta, 11830, 11865, 15130, 17750, 18980, 21455, 21525
1600-1700	Af	U. S. A.	V. of America	12080, 13600, 17895
1600-1700	NA, Af	U. S. A.	WEWN	11530, 13615, 15745

1600-1700	Eu	United Kingdom	BBC	9410, 12095, 15485
1600-1700	As	United Kingdom	BBC	3915, 5975, 6195, 7160, 9410, 15310, 17790
1600-1700	As,Af,ME	Russia	V. of Russia	5945, 9405, 11985, 12055
1600-1700	ME, Af	South Korea	R. Korea Int'l	5975, 9870
1600-1700	As, Oc	Australia	R. Australia	5995, 6080, 7220, 7260, 9475, 11660
1600-1700	ME, Af	North Korea	V. of Korea	3560, 9975, 11735
1600-1700	NA,Eu,Sa	Greece	V. of Greece	7475, 9420, 15630, 17705
1600-1700	Af	Libya	V. of Africa	15660fr, 17695fr
1600-1700	NA, Af, As	China	China R. Int'l	7250
1600-1727	NA, Af, As	China	China R. Int'l	13730
1600-1800	Af	China	China R. Int'l	9570, 11900
1600-1800	As	Taiwan	Taiwan R. Int'l	11550
1600-1800	ME	United Kingdom	BBC	12095, 15565
1600-1800	NA	U. S. A.	KIMF	5835, 11885
1600-1800	NA, Af, As	China	China R. Int'l	11940
1600-1900	NA	U. S. A.	WBCQ	9330, 17495
1600-1900	NA, Af, As	China	China R. Int'l	11670
1600-1900	Af	South Africa	SW R. Africa	4880
1600-1957	NA, Af, As	China	China R. Int'l	17510 drm
1600-2000	NA	Costa Rica	Univ. Network	11870, 13750
1600-2200	Eu	U. S. A.	WMLK	9465, 15265
1600-2300	Am	U. S. A.	WRMI	9955
1600-2300	Am	U. S. A.	WRMI	15725
1600-2400	Af	Zambia	Christian Voice	4965
1615-1630	As, Oc	Vatican City	Vatican R.	15595
1630-1700	Eu	Slovakia	R. Slovakia Int'l	5920, 7345
1630-1700	Af	United Kingdom	BBC	6190, 11860 Sa-Su, 11940, 15400, 15420, 17830, 21470, 21490 Sa-Su, 21660
1630-1700	As	Guam	AWR	11975, 15235
1630-1830	Af	Egypt	R. Cairo	9855
1700-1715	NA	Israel	Israel B/C Auth.	15640, 17535
1700-1715	NA, Af, As	China	China R. Int'l	12080 drm
1700-1727	Eu, Af	Czech Republic	R. Prague	5930, 17485
1700-1728	Eu	Vietnam	V. of Vietnam	9725au
1700-1730	Af	France	R. France Int'l	15605, 17605
1700-1745	Af	United Kingdom	BBC	3255, 6005, 6190, 9630, 15400, 15420, 17830, 21470
1700-1759	Eu	Poland	R. Polonia	7265, 7285
1700-1800	As, Oc	Australia	R. Australia	5995, 6080, 7220, 7260, 9475, 11880
1700-1800	Af	U. S. A.	V. of America	9850, 15410, 15580
1700-1800	Eu, Af	U. S. A.	WYFR	17795, 18980, 21455
1700-1800	Eu, ME	U. S. A.	V. of America	6040, 9700, 9760, 15255
1700-1800	NA,Af,EU	Japan	R. Japan	9535, 11970, 15355ga
1700-1800	As, Oc	U. S. A.	V. of America	6160, 7125, 9640
1700-1800	Eu	United Kingdom	BBC	6195, 9410, 12095, 15485
1700-1800	As	United Kingdom	BBC	3915, 5975, 7160, 9510, 15310
1700-1800	Eu,As,Af	Russia	V. of Russia	9405, 9480, 9890, 11510, 11675 Sa-Su, 11985
1700-1800	Af	South Africa	Channel Africa	15245
1700-1800	Af	Libya	V. of Africa	15660fr, 17635fr, 17695fr, 17880fr
1700-1800	ME,W,F	United Kingdom	Bible Voice	15680ge
1700-1800	ME,Sa-Su	United Kingdom	Bible Voice	15235ge
1700-1857	NA, Af, As	China	China R. Int'l	13830
1700-2000	NA, Af	U. S. A.	WEWN	11530, 13615, 15685, 15745
1700-2100	Am	U. S. A.	WHRI	13760, 15665
1715-1730	Eu, ME	Vatican City	Vatican R.	4005, 5890, 7250, 9645, 15595
1715-1730	NA, Af, As	China	China R. Int'l	12080
1730-1745	Af, ME	United Nations	UN Radio	7170za, 15495uk, 17810as
1730-1745	NA, Af, As	China	China R. Int'l	12080 drm
1730-1800	Eu, M-Sa	Sweden	R. Sweden	6065

1730-1800	Eu, ME	Belgium	R. Vlaanderen i	9925ru, 11640ge
1730-1800	Af	Vatican City	Vatican R.	13765, 15570, 17515
1730-1800	Eu	Georgia	Georgia R.	11910
1730-1800	As	Guam	AWR	9385
1730-1800	Af	U. S. A.	V. of America	11975, 17895
1730-1800	Eu	Bulgaria	R. Bulgaria	9500, 11500
1730-1930	As, Oc	Philippines	Philippines B. S.	11720, 15190, 17720
1745-1800	NA, Af, As	China	China R. Int'l	12080
1745-1815	Eu	Bangladesh	R. Bangladesh	7185, 9550
1745-1830	Af	United Kingdom	BBC	3255, 6190, 15400, 15420, 17830, 21470
1745-1945	Eu, Af	India	All India R.	7410, 9445, 9950, 11620, 11935, 13605, 15075, 15155, 17670
1800-1815	NA, Af, As	China	China R. Int'l	12080 drm
1800-1828	Af, ME	Vietnam	V. of Vietnam	11630, 13740
1800-1830	As	United Kingdom	BBC	5975, 9510
1800-1830	Af	South Africa	AWR	3215, 3345, 12130
1800-1856	Eu	Romania	R. Romania Int'l	11940, 15380
1800-1859	Af	Canada	R. Canada Int'l	9530uk, 11770ae, 13730uk, 15255uk
1800-1900	Af	Netherlands	R. Netherlands	6020ma, 9895, 11655ma
1800-1900	Af	U. S. A.	V. of America	9850, 11975, 15410, 15580, 17895
1800-1900	As, Oc	Australia	R. Australia	6080, 7220, 7240, 7260, 9475, 11880
1800-1900	Eu	U. S. A.	WYFR	13700uk, 17795, 18980
1800-1900	Eu,M-F	Argentina	RAE	9690, 15345
1800-1900	Eu, Af	Russia	V. of Russia	9480, 9745, 9890, 11510, 11630
1800-1900	Eu	Taiwan	Taiwan R. Int'l	3965fr
1800-1900	ME	United Kingdom	BBC	12095, 15310
1800-1900	NA, Eu, Su	Greece	V. of Greece	7475, 9420, 15630, 17705
1800-1900	Af	Libya	V. of Africa	15205fr, 15660fr, 17635fr, 17695fr
1800-1900	ME, Sa	United Kingdom	Bible Voice	13710
1800-1900	As, Sa-Su	United Kingdom	Bible Voice	11965ge
1800-1900	As, Eu, Sa	United Kingdom	Bible Voice	5970ge
1800-1915	ME, F, Su	United Kingdom	Bible Voice	13710
1800-1930	As, Eu, Su	United Kingdom	Bible Voice	5970ge
1800-2000	Eu, ME	U. S. A.	V. of America	6040, 9760, 9770
1800-2000	NA	U. S. A.	KJES	15385
1800-2100	NA	Kuwait	R. Kuwait	11990
1800-2100	Oc, As	Australia	Voice Int'l	6115
1800-2100	NA, Af, As	China	China R. Int'l	13760
1800-2200	Eu	United Kingdom	BBC	6195, 9410
1800-2200	NA	U. S. A.	KIMF	11885
1800-2200	Af	Liberia	R. Liberia	5100
1815-1830	As, Eu, M-F	United Kingdom	Bible Voice	5970ge
1815-1830	NA, Af, As	China	China R. Int'l	12080
1815-1900	Eu	Bangladesh	R. Bangladesh	7185, 9550, 15520
1830-1845	NA, Af, As	China	China R. Int'l	12080 drm
1830-1855	Eu	Greece	V. of Greece	12105
1830-1900	Eu	Slovakia	R. Slovakia Int'l	5920, 6055
1830-1900	Af	United Kingdom	BBC	3255, 6005, 6190, 9630, 15400, 15420, 17830, 21470
1830-1900	Eu	Serbia Monteneg	Int R Serb-Mont	6100
1830-1900	Eu	Georgia	Georgia R.	11760
1830-1900	Af	South Africa	AWR	12130
1830-1920	Eu	Turkey	V. of Turkey	9785
1845-1900	Eu	Albania	R. Tirana	7210, 9520
1845-1900	NA, Af, As	China	China R. Int'l	12080
1851-1950	Oc	New Zealand	RNZI	9885
1900-1915	NA, Af, As	China	China R. Int'l	12080 drm
1900-1925	NA, Eu	Israel	Israel B/C Auth.	15615, 15640, 17535
1900-1928	Af, ME	Vietnam	V. of Vietnam	11630, 13740
1900-1930	Eu	Hungary	R. Budapest	3975, 6025, 11720
1900-1945	ME	Iraq	R. Baghdad	6175?, 11787 varies

1900-1959	Af	Germany	Deutsche Welle	13590, 15545sl, 17770po
1900-2000	Af	U. S. A.	V. of America	4950, 9850, 11975, 13670, 15410, 15445, 15580, 17895
1900-2000	Eu	South Korea	R. Korea Int'l	5975, 7275
1900-2000	As, Oc	Australia	R. Australia	6080, 7220, 7240, 9500, 11650, 11880
1900-2000	Sa	Sri Lanka	Sri Lanka B. C.	6010uk
1900-2000	Eu	Thailand	R. Thailand	7155
1900-2000	Af	China	China R. Int'l	7145, 9440, 9585
1900-2000	Eu, Af	U. S. A.	WYFR	6085, 15130, 17750, 17795, 17845, 18980
1900-2000	Eu	Russia	V. of Russia	7440, 9890, 12070
1900-2000	ME	United Kingdom	BBC	15310
1900-2000	Eu	North Korea	V. of Korea	4405, 13760, 15245
1900-2000	As,Oc,M-F	U. S. A.	V. of America	5965, 9840, 11720, 11970, 13725, 15205, 15410
1900-2000	Af	Libya	V. of Africa	15205fr, 15315fr
1900-2000	Af,Sa-Su	United Kingdom	Bible Voice	9425ge
1900-2030	Eu	Italy	IRRS Relay Serv.	5775
1900-2100	Af	Netherlands	R. Netherlands	7120ma, 9895, 11655ma, 17810bo
1900-2100	NA	U. S. A.	WBCQ	7415, 9330, 17495
1900-2100	Af	United Kingdom	BBC	3255, 6005, 6190, 9630, 12095, 15400, 17830
1900-2100	NA, Sa-Su	Netherlands	R. Netherlands	15315bo, 17660ca, 17735
1900-2100	NA, Af, As	China	China R. Int'l	12015
1900-2157	NA, Af, As	China	China R. Int'l	7295
1900-2159	Am	Canada	R. Canada Int'l	17765
1900-2200	Af	South Africa	Channel Africa	3345
1900-2230	As	Papua N Guinea	NBC Port Moresby	4890
1915-1930	NA, Af, As	China	China R. Int'l	12080
1915-1945	Af, F	United Kingdom	Bible Voice	9425ge
1930-1945	NA, Af, As	China	China R. Int'l	12080 drm
1930-2000	Eu, Af	Sweden	R. Sweden	6065
1930-2000	ME	U. S. A.	V. of America	7260, 9680, 13635
1930-2000	Eu	Belgium	R. Vlaanderen i	9925ru
1930-2000	Eu, M-W	Germany	AWR	15175
1930-2000	Eu,Tu,Th	Belarus	R. Minsk	7105, 7210
1930-2030	Eu, Af	Iran	VOIRI	9800, 11750
1930-2300	Af	Nigeria	V. of Nigeria	7255, 15120, 17800
1935-1955	Eu	Italy	RAI	5970, 9605
1945-2000	NA, Af, As	China	China R. Int'l	12080
1945-2015	Af, F	United Kingdom	Bible Voice	12050
1951-2050	Oc	New Zealand	RNZI	11725
2000-2015	NA, Af, As	China	China R. Int'l	12080 drm
2000-2027	Eu,As,Oc	Czech Republic	R. Prague	5930, 11600
2000-2028	As	Vietnam	V. of Vietnam	7220, 9550
2000-2030	Af	U. S. A.	V. of America	4950, 9850, 11855, 11975, 13670, 15410, 15445, 17745
2000-2030	Eu	Mongolia	V. of Mongolia	9720
2000-2030	Af	Vatican City	Vatican R.	9660, 11625, 13765
2000-2030	Af	Libya	V. of Africa	11635fr, 15315fr
2000-2059	Eu,Af,M-F	Spain	R. Ext. Espana	9570, 15290
2000-2059	Eu	Canada	R. Canada Int'l	5850sw, 7235uk, 11690uk, 13700
2000-2059	Af	Germany	Deutsche Welle	7130sl, 13820, 15205
2000-2100	Eu, ME	U. S. A.	V. of America	6040, 6095, 9760, 9770
2000-2100	As, Oc	Australia	R. Australia	6080, 7220, 9500, 11650, 11880, 12080
2000-2100	LA, Eu, Af	U. S. A.	WYFR	7350mo, 17575, 17750, 17795, 17845, 18980
2000-2100	Af	China	China R. Int'l	9440, 11640, 13630
2000-2100	Af	South Africa	AWR	7170
2000-2100	Eu	Indonesia	V. of Indonesia	9525, 11785 alt, 15150 alt
2000-2100	Eu	Russia	V. of Russia	12070, 15455
2000-2200	Eu	China	China R. Int'l	7190, 9600, 11790

2000-2200	NA, Af	U. S. A.	WEWN	11530, 13615, 15745, 17595
2000-2400	NA	Costa Rica	Univ. Network	13750
2005-2205	Eu	Syria	R. Damascus	12085, 13610
2015-2030	NA, Af, As	China	China R. Int'l	12080
2025-2045	Af	Italy	RAI	6185, 9570, 11880
2030-2045	Eu	Thailand	R. Thailand	9680
2030-2045	NA, Af, As	China	China R. Int'l	12080 drm
2030-2058	Eu,Af,ME	Vietnam	V. of Vietnam	9725, 11630, 11775uk, 13740
2030-2100	Eu, F	Wales	Wales R. Int'l	7150au, 7325uk
2030-2100	Eu	Uzbekistan	R. Tashkent	5025, 9545, 11905
2030-2100	Af	U. S. A.	V. of America	4950 Sa-Su, 9850, 11975, 13670, 15410, 15445, 17745
2030-2100	Eu,Tu,Th	Belarus	R. Minsk	7105, 7210
2030-2100	Af	Libya	V. of Africa	11635fr
2030-2120	As, Oc	Turkey	V. of Turkey	7170
2030-2130	NA, Eu	Cuba	R. Havana Cuba	9505, 11760
2030-2200	Af	Egypt	R. Cairo	15375
2040-2100	As,M-Sa	Armenia	V. of Armenia	4810, 9960
2040-2100	Eu, M	Vatican City	Vatican R.	6185
2045-2100	NA, Af, As	China	China R. Int'l	12080
2045-2230	Eu, Oc	India	All India R.	7410, 9445, 9910, 9950, 11620, 11715
2050-2110	Eu	Vatican City	Vatican R.	4005, 5890, 7250
2051-2400	Oc	New Zealand	RNZI	15720
2100-2115	NA, Af, As	China	China R. Int'l	12080 drm
2100-2130	As, Oc	Australia	R. Australia	7220, 9500, 9660, 11650, 11880, 12080, 17715, 21740
2100-2130	Eu	South Korea	R. Korea Int'l	3955uk
2100-2130	Eu, Af	Hungary	R. Budapest	6025, 11830
2100-2130	Eu	Serbia Monteneg	Int R Serb-Mont	6100
2100-2130	Af	China	China R. Int'l	11640, 13630
2100-2157	NA, Af, As	China	China R. Int'l	9430
2100-2157	?	Netherlands	R. Netherlands	15150bo drm
2100-2159	Af	Germany	Deutsche Welle	9440, 11865rw, 15205rw
2100-2159	Eu,Af,Sa-Su	Spain	R. Ext. Espana	9570, 9640
2100-2159	NA	Canada	R. Canada Int'l	9800 drm
2100-2200	Am	U. S. A.	WHRI	13770, 15665
2100-2200	Af	U. S. A.	V. of America	11975, 13670, 15410, 15445
2100-2200	NA,Af,Eu	Japan	R. Japan	6035si, 6055uk, 6180uk, 11855as, 17825, 21670
2100-2200	Eu	Bulgaria	R. Bulgaria	5800, 7500
2100-2200	Eu	Ukraine	R. Ukraine Int'l	7420
2100-2200	As	United Kingdom	BBC	5965, 6110, 6195
2100-2200	Af	Austria	AWR	15130
2100-2200	Af	United Kingdom	BBC	3255, 6005, 6190, 15400, 17830
2100-2200	LA,Eu,Af	U. S. A.	WYFR	7350mo, 17575, 17795, 17845, 18930, 18980
2100-2200	Eu	North Korea	V. of Korea	4405, 13760, 15245
2100-2300	NA	U. S. A.	WBCQ	5105, 7415, 9330, 17495
2100-2400	LA	United Kingdom	BBC	5975, 12095
2115-2130	LA	United Kingdom	BBC	11675, 15390
2115-2130	NA, Af, As	China	China R. Int'l	12080
2115-2245	Eu	Egypt	R. Cairo	9900
2130-2145	LA, Tu, F	United Kingdom	BBC	11680
2130-2145	NA, Af, As	China	China R. Int'l	12080 drm
2130-2156	Eu	Romania	R. Romania Int'l	7285, 9725, 11750, 15285
2130-2200	Eu,As,Oc	Sweden	R. Sweden	6065, 9880
2130-2200	As, Oc	Australia	R. Australia	9660, 11650, 11880, 12080, 17715, 17585, 21740
2130-2200	Eu	Uzbekistan	R. Tashkent	5025, 9545, 11905
2130-2200	Eu	Albania	R. Tirana	7130, 9540
2130-2200	As	Guam	AWR	11850, 11980

2145-2157	NA, Af, As	China	China R. Int'l	12080
2200-2200	Eu	U. S. A.	WMLK	15265
2200-2229	Am	Canada	R. Canada Int'l	5960, 13785, 15170
2200-2229	NA	Germany	Deutsche Welle	9800ca
2200-2230	NA	Belgium	R. Vlaanderen i	11635bo
2200-2230	Oc, Su-F	Serbia Monteneg	Int R Serb-Mont	7230
2200-2250	NA, Eu	Turkey	V. of Turkey	9830
2200-2257	?	Netherlands	R. Netherlands	15525bo drm
2200-2259	As	Germany	Deutsche Welle	7115sl, 9720
2200-2300	Eu	Taiwan	Taiwan R. Int'l	15600wy
2200-2300	NA, Eu, Af	U. S. A.	WYFR	11740, 15695, 15770
2200-2300	As, Oc	Australia	R. Australia	11880, 13620, 15320, 17715, 17585, 21740
2200-2300	Am	Mexico	R. Mexico Int'l	9705, 11770
2200-2300	Eu	United Kingdom	BBC	6195
2200-2300	As	United Kingdom	BBC	5965, 6195, 7105, 9605, 9740, 11955
2200-2300	NA	U. S. A.	KIMF	5835, 11885
2200-2300	Af	United Kingdom	BBC	15400, 17830
2200-2300	Eu	China	China R. Int'l	9880
2200-2400	NA	U. S. A.	WWRB	5050, 5085, 6890
2200-2400	NA, Af	U. S. A.	WEWN	9355, 9975, 13615, 15745
2200-2400	As, Oc	U. S. A.	V. of America	7215, 15185, 15290, 15305, 17740, 17820
2200-2400	NA	U. S. A.	WHRA	7580
2200-2400	LA	Guyana	V. of Guyana	3290
2200-2400	NA	U. S. A.	WCCR	7465, 9475, 12160, 13845
2200-2400	As	Hawaii	KWHR	17510
2200-2400	Am	U. S. A.	WHRI	9495, 13770
2205-2215	SA	Croatia	Croatian R.	9925ge
2205-2230	As	Italy	RAI	11895
2229-2359	Am	Canada	R. Canada Int'l	5960, 13785
2230-2257	NA, Af	Czech Republic	R. Prague	7345, 9415
2230-2259	As	Canada	R. Canada Int'l	9525ch, 11810ch, 12035ch
2230-2400	As	Papua N Guinea	NBC Port Moresby	9675
2230-2400	ME	United Kingdom	Bible Voice	5925ge
2230-2400	As	Australia	HCJB	15525
2245-2400	As	India	All India R.	9705, 9950, 11620, 11645, 13605
2300-2330	As	U. S. A.	V. of America	9725, 11965, 12055, 13755, 15145
2300-2330	As	United Kingdom	BBC	3915, 5965, 6195, 9605, 9740, 11945, 11955, 15280
2300-2330	As, Oc	Australia	R. Australia	9660, 12080, 13620, 15320, 17585, 17715, 17795, 21740
2300-2356	NA, Eu, Oc	Romania	R. Romania Int'l	7280, 9590, 9645, 11940
2300-2359	As	Germany	Deutsche Welle	7115sl, 9890rw, 15135ru
2300-2400	NA	Bulgaria	R. Bulgaria	9700, 11700
2300-2400	NA	Egypt	R. Cairo	11725
2300-2400	NA	China	China R. Int'l	5990cu, 6145cu, 13680ca
2300-2400	NA, LA	U. S. A.	WYFR	5985, 11740, 11855, 15255, 17750
2300-2400	Am	U. S. A.	WINB	9320
2300-2400	NA	U. S. A.	WBCQ	5105, 7415, 9330
2300-2400	NA	U. S. A.	KIMF	5835
2300-2400	Am	U. S. A.	WRMI	7385, 9955
2300-2400	NA, Sa-Su	U. S. A.	WWBS	11900
2300-2400	NA	Cuba	R. Havana Cuba	9550
2305-2315	SA	Croatia	Croatian R.	9925ge
2305-2330	LA, Sa-Su	Austria	R. Austria Int'l	9870
2315-2330	LA, M-F	Austria	R. Austria Int'l	9870
2330-2358	Eu, As	Vietnam	V. of Vietnam	9840, 12020
2330-2400	NA	Lithuania	R. Vilnius	9875
2330-2400	As	U. S. A.	V. of America	7225, 7260, 9725, 11805, 11965, 12055, 13725, 13755, 15145, 15205
2330-2400	As, Oc	Australia	R. Australia	9660, 12080, 13620, 15320, 17585, 17715,

2330-2400 As United Kingdom BBC 17750, 17795, 21740
 3915, 5965, 6035, 6195,
 9605, 9740, 11945, 11955,
 15280
 2335-2400 LA, Sa-Su Austria R. Austria Int'l 9870
 2340-2400 LA, M-F Austria R. Austria Int'l 9870
 (PRIME TIME SHORTWAVE <<http://www.triwest.net/~dsampson/shortwave>> via JKB)

French, Portuguese shortwave broadcasts sorted by time. Credits to Eike Bierwirth, Leipzig (Germany), who compiled a comprehensive shortwave broadcasting-schedule list of stations on the air in various languages, last updated at August 11, 2004. Based on this data I filtered language-based transmissions.

French (= F and A,F or F,A = mixed with Arabic):

START	STOP	DAY	ITU	STATION	LANG	TARGET	FREQUENCY
0000	0100		CUB	Radio Habana Cuba	F	CAM	9550
0000	0100		F	Radio France Int.	F	CHN	15535/RUS-n
					F	SEA	15415/TWN 15535/RUS-n
					F		17710#/J
0000	0100		USA	WYFR Family Radio	F	SAM	15255
0000	2400		ZAI	Radio Okapi	F	ZAI	6030 9550 11690
0015	0030		CBG	Nat.Radio of Cambodia	F	SEA	11940
0100	0130		F	Radio France Int.	F	SAs	17710/CHN-B
0100	0200		BUL	Radio Bulgaria	F	NAM	9700 11700
0100	0200		KRE	Voice of Korea	F	SEA	4405 11845 15230
0115	0130		I	RAI International	F	NAM	11800
0130	0200		CUB	Radio Habana Cuba	F	CAM	9550
0130	0200		F	Radio France Int.	F	SAs	17710/CHN-B
					F	CAM	9800/GUF 11665/GUF
0200	0230		SVK	Radio Slovakia Int.	F	NAM	5930
					F	SAM	9440
0200	0256		ROU	Radio Romania Int.	F	NAM	9715 11940
0228	0258	Su	USA	Trans World Radio	F	WEu	216/F
					F		
0230	0250		CVA	Radio Vaticana	F	LAM	7305 9605
0230	0300		CVA	Radio Vaticana	F	Af	9660
0241	0256	Mo-Sa	USA	Trans World Radio	F	WEu	216/F
0300	0330		F	Radio France Int.	F	CAf	5925/AFS 7135 9790
					F	EAF	5925/AFS 11700
					F	ME	9425
0300	0400	Tu-Sa	ARG	R.Argentina al Exterior	F	Am	11710
0300	0400		KRE	Voice of Korea	F	CAM	11735 13760 15180
0300	1830		ZAI	Radio Kahuzi, Bukavu	F	CAf	6210
0330	0400		F	Radio France Int.	F	CAf	5925/AFS 7135 9790
					F	EAF	5925/AFS 9790
					F	ME	9425
					F	Eu	6045 9745
0400	0430		F	Radio France Int.	F	NAf	5925
					F	CAf	4890/GAB 7135 7150/ASC
					F		9790 15210/UAE
					F	EAF	13780/UAE
					F	ME	11685 13780/UAE
					F	Eu	6045
0400	0500		AFS	Channel Africa	F	CAf	7265
0400	0600		CHN	China Radio Int.	F		17650ka
0400	0600		ZAI	RTNC Bunia	F	CAf	6828.4
0415	0430		ISR	Kol Israel	F	Eu	11590 11605 15640
					F	NAM	11590 11605 15640
0430	0500		CVA	Radio Vaticana	F	EAF	9660 11625
0430	0500		F	Radio France Int.	F	NAf	5925
					F	CAf	4890/GAB 7135 7150/ASC
					F		9790 13610
					F	EAF	13780/UAE
					F	ME	11685 13780/UAE
					F	Eu	6045#
					F		15210/UAE
0430	0500		G	BBC	F	Af	6035/ASC 7105/ASC 17885/SEY
0430	0600		COG	Radio Congo	F	CAf	5985
0430	0600		TCD	Rd.Nationale Tchadienne	F	CAf	6165

0440	0500	CVA	Radio Vaticana	F	Eu	1530 4005 5890 7250
0500	0100	MRC	Medi 1	F,A	Af	171 9575
0500	0515	D	Deutsche Welle	F	CAf	7225/RRW 13780w 15595/RRW
0500	0530	F	Radio France Int.	F	CAf	6175/GAB 9790 11700 15300
				F	Eaf	13640/UAE
				F	ME	13640/UAE 15605
0500	0530	J	NHK Radio Japan	F	NAf	17820/CLN
0500	0600	USA	WYFR Family Radio	F	CAf	11530
0500	0700	GAB	Afrique No.1	F	Af	9580
0500	0700	NIG	Voice of Nigeria	F	Af	7255
0500	0712	Mo-Fr	BEL RTBF Bruxelles	F	CAf	17580/D-j
0500	1000	SaSu	BEL RTBF Bruxelles	F	CAf	17580/D-j
0500	2000		BEL RTBF Bruxelles	F	Eu	9970
0500	2400	GUI	RTV Guinee	F	Waf	6155 7125
0530	0600	F	Radio France Int.	F	NAf	5925 7135
				F	CAf	6175/GAB 9790 11700 15300
				F	Eaf	15155 13640/UAE
				F	ME	13640/UAE 15605
0530	0600	Mo-Fr	USA Voice of America	F	Af	1530/STP 4960/STP 6045/STP
				F		6095/STP 9885/BOT 13695/BOT
0600	0626	ROU	Radio Romania Int.	F	Eu	9655 9690 11840 11875
0600	0627	CZE	Radio Prague	F	WEu	5930 7345
0600	0630	BUL	Radio Bulgaria	F	WEu	11600 13600
0600	0630	CVA	Radio Vaticana	F	Af	11625 13765 15570
0600	0630	F	Radio France Int.	F	NAf	9790 11700
				F	Waf	11700 15315
				F	CAf	15300 17770/RRW 17850
0600	0630	G	BBC	F	Af	7105/ASC 9610/ASC
				F		13740r 15405/CYP
0600	0630	SUI	Swiss Radio Int.	F	Af	13650/D-j 15445/D-j 21770
0600	0630	Mo-Fr	USA Voice of America	F	Af	4960/STP 6045/STP 6095/STP
				F		9885/BOT 13695/BOT
0600	0700	COG	Radio Congo	F	CAf	5985 6115
0600	0700	USA	WYFR Family Radio	F	Eu	9355
				F	Waf	9930
0615	0630	Mo-Sa	CVA Radio Vaticana	F	Af	15595
				F	As	5890 15595
				F	Eu	585 1530 4005 5890 7250
				F		9645 11740 15595
0630	0700	F	Radio France Int.	F	NAf	9790 11700
				F	Waf	11700 11665/ASC 15315
				F	CAf	15300 17770/RRW 17850
				F	Eaf	21620
0630	0700	J	NHK Radio Japan	F	Eu	11970/GAB
0630	0730	IRN	IRIB Teheran	F		17560 17590
0630	0830	Sa-Th	MTN ORTV Mauritanie	A,F	Waf	4845
0700	0730	G	BBC	F	Af	15105/ASC 17695/AFS
0700	0800	F	Radio France Int.	F	NAf	11700 15300 15315
				F	Waf	11700 15300 15315 17620
				F	CAf	15170/AFS 17850 21580
0700	0800	TWN	Radio Taiwan Int.	F	Eu	7520/USA-o
0700	0830	COG	Radio Congo	F	CAf	6115 9610
0700	1600	GAB	Afrique No.1	F	Af	9580 17630
0730	0750	Su	ARM Voice of Armenia	F	Eu	4810 15270
0730	0757	CZE	Radio Prague	F	WEu	9880 11600
0800	0830	GEO	Radio Georgia	F	CEu	11910
0800	0845	USA	WYFR Family Radio	F	CAf	11530
0800	0900	F	Radio France Int.	F	NAf	11845 15300 15315
				F	Waf	15300 15315 17620
				F	CAf	21580
0800	0900	KOR	Radio Korea Int.	F	Eu	15210
0800	1000	ARS	BSKSA	F	Af	17785
0800	1000	CHN	China Radio Int.	F	Eu	17650ka
0830	1700	COG	Radio Congo	F	CAf	9610
0900	1000	F	Radio France Int.	F	NAf	11845 15300
				F	Waf	15300 17620
				F	CAf	21580
0900	1630	MTN	ORTV Mauritanie	A,F	Waf	7245
0900	2100	RRW	Radio Rwanda	F	CAf	6055

1000	1010	ISR	Kol Israel	F	Eu	15640	17535
				F	NAm	15640	17535
1000	1030	SUI	Swiss Radio Int.	F	Af	21770	
1000	1045	USA	WYFR Family Radio	F	SAm	9625	11970
1000	1100	F	Radio France Int.	F	NAf	11845	15300
				F	Waf	15300	17620
				F	CAf	17850	21580
				F	CHN	9830\$/J	
				F	SEA	15215\$/J	
1000	1130	BEL	RTBF Bruxelles	F	CAf	21565/D-j	
1000	1200	CAN	Radio Canada Int.	F	NAm	11945	
1045	1100	USA	WYFR Family Radio	F	SAm	11970	
1045	1300	SaSu	HWA KWHR Naalehu HI	F	FE	11565	
1100	1115	Mo-Sa	CVA Radio Vaticana	F	Eu	585	1611 5890
1100	1130		BUL Radio Bulgaria	F	WEu	11700	15700
1100	1145	USA	WYFR Family Radio	F	ENA	9505	
1100	1156	ROU	Radio Romania Int.	F	Eu	11830	15250
				F	NAf	15380	17740
1100	1200	F	Radio France Int.	F	NAf	11845	15300
				F	Waf	15300	17620
				F	CAf	17850/AFS	21580
				F	NAO	6175	
				F	CHN	9830/J	
				F	SEA	11600/CHN-B	15215/J
				F	NAm	17570	
				F	CAm	13640/GUF	15515/GUF 21645\$
1100	1200	KRE	Voice of Korea	F	CAm	11710	15180
				F	SEA	3560	11735 13650
1200	1230	F	Radio France Int.	F	NAf	11845	15300
				F	Waf	15300	17620 21685
				F	CAf	17850/AFS	21580
1200	1230	G	BBC	F	Af	15105w	17780/ASC 21640/ASC
1200	1230	VTN	Voice of Vietnam	F	SEA	1242	7285
1200	1300	SaSu	CAN Radio Canada Int.	F	NAm	11945	
1200	1300	D	Deutsche Welle	F	Waf	15520w	17650/POR 21665/RRW
				F	SAf	11795/RRW	15410/RRW 17770w
				F		21665/RRW	
1200	1400	CHN	China Radio Int.	F	Eu	17650ka	
1215	1230	CBG	Nat.Radio of Cambodia	F	SEA	11940	
1230	1300	F	Radio France Int.	F	NAf	11845	15300
				F	Waf	15300	17620 21685 21760/AFS
				F	CAf	17850/AFS	21580
				F	Eaf	21620	
				F	CAm	15515/GUF	17860/GUF
1230	1300	J	NHK Radio Japan	F	Waf	15400/ASC	
				F	CAf	17870/ASC	
1300	1330	LAO	Lao National Radio	F	SEA	7145	
1300	1330	VTN	Voice of Vietnam	F	SEA	1242	7285
1300	1400	F	Radio France Int.	F	NAf	11845	15300
				F	Waf	15300	17620 21685
				F	CAf	17850/AFS	21580
				F	SEA	684/CHN	
				F	CAm	15515/GUF	17860/GUF
1330	1400	AZE	Voice of Azerbaijan	F	ME	1295	6111
1400	1500	F	Radio France Int.	F	NAf	11845	15300
				F	Waf	15300	17620 21685
				F	CAf	21580	
1400	1500	KRE	Voice of Korea	F	Eu	4405	13760 15245
				F	NAm	9335	11710
1400	1600	ARS	BSKSA	F	Af	21600	
1430	1802	Mo-Fr	BEL RTBF Bruxelles	F	CAf	17570/D-j	
1500	1530	Mo-Fr	CAN R. Canada Nord-Quebec	F	CAN	9625	
1500	1600	Mo-Fr	CAN Radio Canada Int.	F	NAm	17765	
1500	1600	D	Deutsche Welle	F	Waf	17715n	
				F	CAf	21820/RRW	
1500	1600	F	Radio France Int.	F	NAf	11845	15300
				F	Waf	15300	17620
				F	CAf	17850	21580
1500	1705	SaSu	BEL RTBF Bruxelles	F	CAf	17570/D-j	

1530	1545	ISR	Kol Israel	F	Eu	15640 17535
				F	NAm	15640 17535
1530	1555	I	RAI International	F	Eu	11885
1600	1615	CVA	Radio Vaticana	F	As	15595
				F	Eu	585 1530 4005 5890
				F		7250 9645 15595
1600	1630	Su	D Radio Santec	F	NAf	15265j
1600	1630		HNG Radio Budapest	F	Eu	3975 6025
1600	1630		SCG Int.R.Serbia-Montenegro	F	WEu	9620
1600	1700		AFS Channel Africa	F	Waf	15245
1600	1700		CHN China Radio Int.	F	Eu	17650ka
1600	1700		D Deutsche Welle	F	Waf	17715w 21820w
				F	CAf	17640/RRW
1600	1700		F Radio France Int.	F	NAf	15300
				F	Waf	17620
				F	CAf	21580
				F	SEA	1296/CHN-k 6090/CHN-k
1600	1700		KOR Radio Korea Int.	F	Af	7150/G-s
1600	1700		KRE Voice of Korea	F	Eu	4405 13760 15245
				F	NAm	9335 11710
1600	1700		RUS Voice of Russia	F	Af	9745c 11510/ARM 12000m
				F	Eu	12000m 12010s 12040m 12070m
1600	1700		RUS Voice of Russia DIGITAL	F	Eu	15780m
1600	1800		ZAI RTNC Bunia	F	CAf	6828
1600	1900		CAN Radio Canada Int.	F	NAm	17765
1600	1900	Su	CAN R. Canada Nord-Quebec	F	CAN	9625
1600	1900		ZAI RTV Nat.Congolaise	F	CAf	7435 \times tent.\
1600	2100		GAB Afrique No.1	F	Af	9580 15475
1600	2230		TCD Rd.Nationale Tchadienne	F	CAf	6165
1600	2300		BEN ORTV du Benin	F	Waf	7210.2
1600	2300		BEN ORTB Radio Parakou	F	Waf	5025 7190
1600	2300		GAB RTV Gabonaise	F	CAf	4777 7270
1610	1620	Tu,Th	MDA Radio DMR	F	Eu	5960
1630	1650		J NHK Radio Japan	F	NAf	11785
1630	1655		I RAI International	F	Eu	9670 11815
1630	1657		CZE Radio Prague	F	WEu	5930
				F	CAf	17485
1630	1700		VTN Voice of Vietnam	F	ME	7220 9550
				F	Af	7220 9550
1700	1715		BEL Radio Vlaanderen Int.	F	Eu	1512 9925/RUS-m
1700	1715	Mo-Fr	UN United Nations Radio	F	SAf	7150/AFS
				F	NAf	17720/G-s
				F	CAf	21535/AFS
1700	1726		ROU Radio Romania Int.	F	Eu	11865 15170
1700	1730		BUL Radio Bulgaria	F	WEu	9500 11500
1700	1730		CVA Radio Vaticana	F	Af	15570 17515
1700	1730		F Radio France Int.	F	NAf	11700 15300
				F	Waf	15300 17620
				F	CAf	15300
1700	1730		SVK Radio Slovakia Int.	F	WEu	5920 7345
1700	1800		CHN China Radio Int.	F		15150d
1700	1800		D Deutsche Welle	F	Waf	15215w 17595/RRW 17745w
				F	CAf	9690/RRW 17745w
1700	1800		ETH Radio Ethiopia	F	Eaf	7165 9560
1700	1800		KOR Radio Korea Int.	F	Af	9870
1700	1800		RUS Voice of Russia	F	Af	9745c
				F	Eu	12010s 12040m 12070m 15465e
1700	1800		USA WYFR Family Radio	F	Waf	17525
1700	2000	irr	CME Radio Garoua	F	CAf	5010
1700	2030		COG Radio Congo	F	CAf	5985 6115
1700	2215		NGR La Voix du Sahel	F	Waf	7155 9705
1708	1740	Mo	NZL Radio New Zealand Int.	F	Oc	6095
1730	1800		F Radio France Int.	F	NAf	11700 15300
				F	Waf	15300 17620
				F	CAf	15300
				F	Eaf	17605
1730	1800		GRC Voice of Greece	F	Eu	12105
1745	1805	Mo-Sa	ARM Voice of Armenia	F	Eu	4810 9960
1755	1825	SaSu	USA Trans World Radio	F	Af	9695/AFS

1800	0100	MTN	ORTV	Mauritanie	A,F	Waf	4845
1800	1810	RRW	Radio	Rwanda	F	CAf	6055
1800	1815	SUI	Swiss	Radio Int.	F	ME	13750/D-j 15515/D-j 17870
1800	1820	J	NHK	Radio Japan	F	Eu	11970
					F	Af	9685 11785
1800	1825	CAF	Radio	Centrafrique	F	CAf	6100
1800	1830	G	BBC		F	Af	7230/AFS 15105/ASC 15180/CYP
					F		17885/ASC 21630/ASC
1800	1900	Mo-Sa	E	Radio Exterior	F	Eu	9655
1800	1900		F	Radio France Int.	F	NAf	11615 11705 15300
					F	Waf	9790/GAB 15300 15605
					F	CAf	11705 15300
1800	1900		KOR	Radio Korea Int.	F	Af	15575
1800	1900		KRE	Voice of Korea	F	SAf	9640 11710
					F	NAf	3560 9975 11735
1800	1900		RUS	Voice of Russia	F	Af	7310sp 12000m
					F	Eu	12000m 12010s 12040m
					F		12070m 15465e
1800	1900		USA	WYFR Family Radio	F	Eu	17750
					F	CAf	21525
1800	2000		NIG	Voice of Nigeria	F	Af	11770
1800	2400		MLI	RTV du Mali	F,A	Waf	4783 4835 5995
1830	1857		CZE	Radio Prague	F	WEu	5930 13580
					F	Waf	13580
1830	1900		G	FEBA Radio	F	Waf	15130/ASC
1830	1900	Th	SUI	R.Reveil Paroles de Vie	F	CAf	15675/D-j
1830	1900		VTN	Voice of Vietnam	F	Eu	9725/AUT 9730 13740
					F	CAs	9730 13740
1830	1930		IRN	IRIB Teheran	F		13755
1830	2000		USA	Voice of America	F	Af	1530/STP 9815/BOT 9830/STP
					F		12080/BOT 15730/STP
					F		17785/MRC
1830	2030		CHN	China Radio Int.	F	Af	9645k 11760u
1900	1930	Mo-Sa	ALB	Radio Tirana	F	Eu	7210s 9520
1900	1945	Sa-Th	USA	Trans World Radio	F	Waf	9720/AFS
1900	1945		USA	WYFR Family Radio	F	CAf	21525
					F	Eu	21455
1900	2000		CAN	Radio Canada Int.	F	Eu	5850/S 5995/G-s 7235/G-s
					F		13700 15325
1900	2000	Mo-Fr	E	Radio Exterior	F	Af	9570
					F	ME	7150
1900	2000	Sa	E	Radio Exterior	F	Af	9570
					F	ME	17560
1900	2000	Su	E	Radio Exterior	F	ME	17560
1900	2000		F	Radio France Int.	F	NAf	9790 11705
					F	Waf	11615 11955/GAB 15605
					F	CAf	7160/AFS 11705 15300
					F	Eaf	11995
1900	2000		INS	Voice of Indonesia	F	Eu	15150
1900	2000		KOR	Radio Korea Int.	F	Eu	6145/G-s
1900	2000		RUS	Voice of Russia	F	Af	7310sp 12000m 12030m
					F	Eu	1323/D 12000m 12010s
					F		12030m 15455a 15465e
1900	2000		TWN	Radio Taiwan Int.	F	Eu	6045/G-s
1905	2005		SYR	Radio Damascus	F	Eu	12085 13610
1915	1930		BEL	Radio Vlaanderen Int.	F	Eu	1512 9925/RUS-m
1930	1945		ISR	Kol Israel	F	Eu	11605 17535
					F	NAm	11605 17535
					F	CAm	15615
1930	1950		CVA	Radio Vaticana	F	Eu	585 1530 4005
					F		5890 7250 9645
1930	2000		SVK	Radio Slovakia Int.	F	WEu	5920 6055
1930	2000		VTN	Voice of Vietnam	F	Eu	9730 13740
					F	CAs	9730 13740
1930	2025		TUR	Voice of Turkey	F	Eu	11850
					F	Waf	9535c
1935	1950	Mo-Fr	SWZ	Trans World Radio	F	CAf	9525
1935	2005	Sa	SWZ	Trans World Radio	F	CAf	9525
1935	2020	Su	SWZ	Trans World Radio	F	CAf	9525

1945	2030	IND	All India Radio	F	NAf	9905a 13605b 13620b
2000	2030	CUB	Radio Habana Cuba	F	NAm	11760
2000	2030	HNG	Radio Budapest	F	Eu	6025 9585
2000	2030	USA	Adventist World Radio	F	NAf	15175/D-j
				F	CAf	9610/AFS
				F	WAF	7225/AFS
2000	2030	USA	Voice of America	F	Af	9815/BOT 9830/STP 11720/MRC
				F		12080/BOT 15730/STP
2000	2100	Mo-Fr	ARG R.Argentina al Exterior	F	Eu	9690 15345
2000	2100		BUL Radio Bulgaria	F	WEu	5800 7500
2000	2100		CAN Radio Canada Int.	F	NAf	5995/G-s 11965/D-w 15325
2000	2100	Sa	CAN R. Canada Nord-Quebec	F	CAN	9625
2000	2100	Su	E Radio Exterior España	F	Af	9570
				F	Eu	15290
2000	2100		F Radio France Int.	F	NAf	7315 9790
				F	WAF	9790 11955/GAB
				F	CAf	7160/AFS 11705 15300
				F	EAF	11995
2000	2100		KRE Voice of Korea	F	Eu	4405 13760 15245
2000	2100		RUS Voice of Russia	F	ME	5985/D-j 7260/D-j 9825/D-j
2000	2100		TWN Radio Taiwan Int.	F	Eu	9635t 15310/USA-o 18930/USA-o
2000	2115		EGY Radio Cairo	F	Eu	9990
2015	2030		THA Radio Thailand	F	Eu	9680
2030	2100		CVA Radio Vaticana	F	Af	9660 11625 13765
2030	2100		SCG Int.R.Serbia-Montenegro	F	WEu	6100
2030	2100		USA Adventist World Radio	F	WAF	15130/AUT
2030	2100	SaSu	USA Voice of America	F	Af	9815/BOT 9830/STP 11720/MRC
				F		12080/BOT 15730/STP
2030	2130		CHN China Radio Int.	F	Af	7200u 7320/RUS-s 11660x
2030	2230		EGY Radio Cairo	F	WAF	15335
2030	2300		COG Radio Congo	F	CAf	5985
2030	2300		VTN Voice of Vietnam	F	NAf	11775/G-s
2040	2050	Su	NZL Radio New Zealand Int.	F	Oc	11725
2100	2126		ROU Radio Romania Int.	F	Eu	7230 9585
2100	2130		RUS Voice of Russia	F	Af	9450/CVA
2100	2130		SUI Swiss Radio Int.	F	Af	11815/D-j 13645/D-j
				F		13795 15220/GUF
2100	2130	Mo-Fr	USA Voice of America	F	Af	9815/BOT 9830/STP 11720/MRC
				F		12035/STP 12080/BOT
				F		17750/ASC
2100	2130		VTN Voice of Vietnam	F	Eu	9730 13740
				F	ME	7220 9550
2100	2200		AGL Radio Nacional Angola	F	AGL	944 7217
2100	2200	Su	CAN R. Canada Nord-Quebec	F	CAN	9625
2100	2200		F Radio France Int.	F	NAf	6175 7315 9790
				F	WAF	7315 9790 11955/GAB
				F	CAf	7160/AFS 9790 11705
2100	2200		TWN Radio Taiwan Int.	F	WAF	9365/F
2100	2300		GAB Afrique No.1	F	Af	9580
2130	2200		CUB Radio Habana Cuba	F	NAm	11760
2130	2230		CHN China Radio Int.	F	Af	7200u 11660x
				F		11975/MLI 13630/MLI
2200	2227		CZE Radio Prague	F	NAm	7345 9415
2200	2230		CUB Radio Habana Cuba	F	CAm	9505
2200	2230		SUI Swiss Radio Int.	F	SAm	9885 11905/GUF
2200	2300		CAN Radio Canada Int.	F	NAm	15300
2200	2300		CAN Radio Canada Int.	F	Af	9390/S 11755/ASC
2200	2300	Sa	CAN R. Canada Nord-Quebec	F	CAN	9625
2300	2400		E Radio Exterior España	F	Am	15385
				F	Eu	6055
2300	2400		F Radio France Int.	F	CHN	15535/RUS
				F	SEA	15415/TWN 15535/RUS
				F		15595/RUS 17710/J
2300	2400		USA WYFR Family Radio	F	ENA	6065
<u>Portuguese (= P):</u>						
STARTSTOP	DAY		ITU STATION	LANG	TARGET	FREQUENCY
0000	0045		USA WYFR Family Radio	P	SAm	17725 17750 17805
0000	0100		CHN China Radio Int.	P	LAm	11650x 11850/GUF 15420b

0000	0200	Tu-Sa	ARG	R	Argentina al Exterior	P	Am	11710
0000	0600		AGL	R	Nacional, Canal A	P	Af	1088 1367 4950 11955
0000	2400		B		Radio Aparecida	P	SAm	820 5035 6135 9630 11855
0000	2400		B		Radio Bandeirantes, SP	P	SAm	6090 9645 11925
0000	2400		B		Radio Brasil Central	P	SAm	1270 4985 11815
0000	2400		B		Radio Gazeta, Sao Paulo	P	SAm	5955 9685 15325
						P		relays Radio Cancao Nova
0000	2400		B		Radio Guaiba	P	SAm	6000 11785
0000	2400		B		Radio Guaruja	P	SAm	5980
0000	2400		B		Radio Marumby	P	SAm	9665
0000	2400		B		Radio Nacional Amazonia	P	SAm	6180 9665 11780 or Marumby
0000	2400		B		Radio Pioneira, Teresina	P	SAm	5015
0000	2400		B		Radio Tupi, Curitiba	P	SAm	6060 9565 11765
0030	0100		CVA		Radio Vaticana	P	LAm	1260 7305 9605
0045	0100		USA		WYFR Family Radio	P	SAm	17725 17750
0100	0145		USA		WYFR Family Radio	P	SAm	7520 15130 17725
0100	0800		CHL		Voz Cristiana	P	SAm	11745
0115	0130		I		RAI International	P	SAm	9840
0145	0200		USA		WYFR Family Radio	P	SAm	7520
0200	0300		USA		WYFR Family Radio	P	SAm	17750
0230	0300		J		NHK Radio Japan	P	SAm	15565/GUF
0300	0900		B		Radio Nova Visao	P	SAm	5965 9530 11735
0400	0500		USA		WYFR Family Radio	P	Af	11530
0430	0500		G		BBC	P	Af	3390/AFS 6135/AFS 7205/AFS
0430	0500		USA		Voice of America	P	Af	1530/STP 6095/STP 6145/ASC
						P		7340/BOT 9885/BOT 13725/STP
0500	0645	Mo-Fr	POR	RdP	Radio Portugal	P	Eu	7240 9840
0500	0700	Tu-Sa	B		Radio Nacional do Brasil	P	P	Af 9665
0500	0800	SuMo	B		Radio Nacional do Brasil	P	P	Af 9665
0515	0545		D		Deutsche Welle	P	Af	9565/RRW 15520w
0530	0600		CVA		Radio Vaticana	P	Af	11625 13765 15570
0600	1900		AGL	R	Nacional, Canal A	P	AGL	1088 4950 9720 11955
0645	0700	Mo-Fr	POR	RdP	Radio Portugal	P	Eu	7240 9840 11850
0700	0745		USA		WYFR Family Radio	P	Eu	9985
0700	0800	Mo-Fr	POR	RdP	Radio Portugal	P	Eu	9815 9840 11850
0700	0830	SaSu	POR	RdP	Radio Portugal	P	Eu	12020 13640
						P	Af	21830
						P	Waf	17710
						P	SAm	17710
0800	0930		EQA		HCJB Voice of the Andes	P	SAm	9745 21455
0800	1000	Mo-Fr	POR	RdP	Radio Portugal	P	Eu	12020
0800	1030		B		Radio Itatiaia	P	B	5970
0800	1100		CHL		Voz Cristiana	P	SAm	6110
0800	0200		B		Radio Novas da Paz	P	SAm	6080 9515 11725
0800	0215		B		Radio Record	P	SAm	6150 9505
0800	0300		B		Radio Cultura AM	P	SAm	1200 9615 17815
0800	0300		B		Radio Cultura FM	P	SAm	6170
0800	0300		B		Radio Globo, Sao Paulo	P	SAm	6120 9585
0800	0400		B		Radio Gaucha, P.Alegre	P	SAm	6020 6060 9565 11915
0804	0900		USA		WYFR Family Radio	P	SAm	9605 11770
0830	1000	SaSu	POR	RdP	Radio Portugal	P	Eu	11995 12020 13640
						P	Af	21830
						P	Waf	17710
						P	SAm	17710
0830	0430		B		Radio Filadelfia	P	B	6105
0855	1300		B		Radio Senado	P	B	5993
0900	1000		USA		WYFR Family Radio	P	SAm	6175 9605 9625 11770
0900	1500		B		Radio Nova Visao	P	SAm	9530
0900	1500		B		Radio Transmundial	P	SAm	5965 11735
0900	0100		B		Radio Rio Mar	P	SAm	3385 6160 9695
0900	0400		B		Radio Anhanguera	P	SAm	4915 6080 11830
0930	0300		B		R.Educadora 6 de Agosto	P	B	3255
0940	1430		B		Radio Integracao	P	B	4765
1000	1045		USA		WYFR Family Radio	P	SAm	6175 9605 11770
1000	1200	Mo-Fr	POR	RdP	Radio Portugal	P	Eu	12020
						P	Af	21830
						P	Waf	21655 21725
						P	SAm	21655 21725
1000	1200	SaSu	POR	RdP	Radio Portugal	P	Eu	12020 13640

				P	Af	21830	
				P	Waf	21655	
				P	SAm	21655	
1030	1100		J	NHK Radio Japan	P	SAm	15590/GUF
1100	1130	Mo-Sa	CVA	Radio Vaticana	P	LAm	1260 21850
1100	2000		CHL	Voz Cristiana	P	SAm	21500
1200	1300		AGL	RNA N'Gola Yetu	P	AGL	944 7217
1200	1345	SaSu	POR	RdP Radio Portugal	P	Eu	12020 13640
				P	Af	21830	
				P	Waf	17710	
				P	NAm	17575	
				P	SAm	17615 17710	
1200	1700	occ	POR	RdP Radio Portugal	P	NAm	17575
1300	1500	Mo-Fr	POR	RdP Radio Portugal	P	As	21810
1315	1330		CVA	Radio Vaticana	P	Eu	1260 9645 11740
1345	1400	SaSu	POR	RdP Radio Portugal	P	Af	21830
				P	Waf	21655	
				P	NAm	17575	
				P	SAm	17615 21655	
1400	1700	SaSu	POR	RdP Radio Portugal	P	Eu	13770 15555
				P	Af	21830	
				P	Waf	21655	
				P	NAm	17575	
				P	SAm	17615 21655	
1400	2000		B	Radio Nova Visao	P	SAm	11735
1400	2000		B	Radio Transmundial	P	SAm	5965 9530
1425	1440	Sa	SWZ	Trans World Radio	P	MOZ	7315
1425	1455	Su-Fr	SWZ	Trans World Radio	P	MOZ	7315
1530	1800		EQA	HCJB Voice of the Andes	P	SAm	15295
1600	1645	Sa	SWZ	Trans World Radio	P	MOZ	4760
1600	1900	Mo-Fr	POR	RdP Radio Portugal	P	Eu	13770 15525
				P	Af	17680	
				P	Waf	21655 21800	
				P	SAm	21655 21800	
1630	1645	Mo,Th	SWZ	Trans World Radio	P	MOZ	4760
1700	1730		USA	Voice of America	P	AGL	1530/STP 7290
				P		11775 15545	
1700	1800		F	Radio France Int.	P	Waf	15530
				P	Eaf	12015/GAB	
1700	1800		USA	Voice of America	P	Af	1530/STP 9830/STP 12080/BOT
1700	1800		USA	WYFR Family Radio	P	Af	21525
1700	2000	SaSu	POR	RdP Radio Portugal	P	Eu	13770 15555
				P	Af	17680	
				P	Waf	21655	
				P	NAm	17575	
				P	SAm	17615 21655	
1700	2300	occ	POR	RdP Radio Portugal	P	NAm	17575
				P	VEN	21540	
1730	1800		USA	Voice of America	P	Af	9805/BOT 9815/BOT
				P		15730/STP 17785/MRC	
1800	1830	Mo-Fr	USA	Voice of America	P	Af	1530/STP 9815/BOT
				P		9830/STP 12080/BOT	
				P		15730/STP 17785/MRC	
1800	1840		CVA	Radio Vaticana	P	Af	13765 15570 17515
1800	1845		USA	WYFR Family Radio	P	Waf	17525
1800	1900	Tu-Fr	E	Radio Exterior España	P	Am	21700
1800	2200	SaSu	B	Radio Nacional do Brasil	P	Af	9665
1900	2000		AGL	Radio Ecclesia	P	AGL	7205/AFS
1900	2000		CHN	China Radio Int.	P	Eu	7335j 11825x
				P	Af	7180x 9535x 9620x	
				P		11640\$/MLI 13630\$/MLI	
1900	2000		USA	WYFR Family Radio	P	Eu	18930
1900	2030		G	BBC	P	SAm	15285/ATG 17605/CHL
				P		17630/ATG	
1900	2030		I	IRRS Milano	P	Eu	5775
1900	2100	Mo-Fr	B	Radio Nacional do Brasil	P	Af	9665
1900	2300	occ	POR	RdP Radio Portugal	P	Eu	13720 15445 15555
				P	Af	11945	
				P	Waf	21800	

			P	SAm	21540 21655 21800
			P	NAm	17575
1900 2400		AGL R Nacional, Canal A	P	Af	1088 1367 4950 9720 11955
1905 1920 124		SWZ Trans World Radio	P	AGL	6130
1920 1950		SWZ Trans World Radio	P	AGL	6130
2000 2030		CUB Radio Habana Cuba	P	Eu	15120
2000 2030		RUS Voice of Russia	P	SEu	7440m 11630m
2000 2050		D Deutsche Welle	P	CAf	15275w
			P	SAf	9875/RRW 11870/CLN 15275w
2000 2100		CHL Voz Cristiana	P	SAm	21500
			P	SAf	15365
2000 2100		F Radio France Int.	P	CAf	15530
2000 0300		B Radio Integracao	P	B	4765
2000 0300		B Radio Itatiaia	P	B	5970
2000 0900		B Radio Cancao Nova	P	SAm	1020 4825 6105 9675
2000 1000		B Radio Inconfidencia	P	B	6010
2000 1100		B Radio Baré OndaTropical	P	B	4895
2000 1130		B Radio Globo, Rio	P	SAm	6030
2030 2045		CVA Radio Vaticana	P	Eu	1530 4005 5890 7250 9645
2030 2100		G BBC	P	Af	3390/AFS 6135/AFS 7205/AFS
			P		11855/ASC 13745r 15105s
2050 2110		I RAI International	P	Af	6130 7295 11880 15240
2100 2130 Fr		CAN Radio Canada Int.	P	SAm	15165 17740
2100 2200		USA WYFR Family Radio	P	Af	15770
2100 2300		CHL Voz Cristiana	P	SAm	15475 21500
			P	SAf	15365
2100 0300		B Radio Nova Visao	P	SAm	5965 11735
2100 0300		B Radio Transmundial	P	SAm	9530
2100 1000		B Radio Clube Paranaense	P	B	6040 9725
2130 2200		G BBC	P	SAm	9870/ASC 11965/ATG 15390/ASC
2200 2230		CUB Radio Habana Cuba	P	SAm	17705
2200 2300		CHN China Radio Int.	P		11650x 15100b
2200 2300		USA WYFR Family Radio	P	SAm	17725 15130
2200 0303		B Radio Senado	P	B	5993
2215 2330		EGY Radio Cairo	P	SAm	11790
2230 2300		G BBC	P	SAm	9870/ASC 11965/ATG 15390/ASC
2300 2330		CUB Radio Habana Cuba	P	SAm	15230 17705
2300 2400		CHN China Radio Int.	P	SAm	13650/CUB
2300 2400		RUS Voice of Russia	P	Eu	603
			P	SAm	7330m 11510/TJK 12010m
2300 2400		USA WYFR Family Radio	P	SAm	17725
2300 0100		CHL Voz Cristiana	P	SAm	11745 15475
2300 0200 Mo-Fr		POR RdP Radio Portugal	P	NAm	9715 15480
			P	VEN	13700
			P	B	13660 15295
2300 0230		EQA HCJB Voice of the Andes	P	SAm	11920 12020
2330 2400 SaSu		CAN Radio Canada Int.	P	LAm	11825 15455
2330 2400		CUB Radio Habana Cuba	P	SAm	15230

(Eike Bierwirth's shortwave broadcasting-schedule list - Last update: August 11, 2004, filtered for the language-based transmissions by JKB)

NETHERLANDS: Due to cutbacks at client broadcaster Christian Media Network, Miami-based shortwave broadcaster *WRMI* is, for the time being, carrying relays of World Radio Network at 1200-1600 UTC seven days a week on 15725 kHz. This includes an hour of English from *Radio Netherlands* at 1200-1300 UTC. As this is not an official shortwave relay, the frequency is not announced by Radio Netherlands. But we welcome reception reports on this transmission to letters@rnw.nl. (©RNMN July 20, 2004; via JKB)

Radio Netherlands will carry special programming in Dutch for coverage of the Olympic Games between 14 and 29 August. As well as relays of the NOS service RadiOlympia, there will be a daily Olympic news programme produced by Radio Netherlands. Programming will be carried worldwide on the Internet (RNW1) and in Europe on shortwaves as follows:

Mon-Fri 0800-1000 and 1200-1500 UTC

Sat 0800-1100 and 1200-1500 UTC

Sun 0600-1100 and 1200-1500 UTC

To Central Europe on 5955 kHz, South West Europe on 9895 kHz, South and South East Europe on 13700 kHz. Sun 0600-0800 on 11935 instead of 13700 kHz. (©RNMN July 19, 2004; via JKB)

NEW ZEALAND: Changes of *Radio New Zealand International - RNZI* schedule valid 5 Sep 2004 - 31 Oct 2004. Address: P.O.Box 123, Wellington, New Zealand. Fax: 00 64 4 474 1433 and e-mail address is <info@rnzi.com>. Reception reports by e-mail or post are welcome and at the web <<http://www.rnzi.com/pages/contact.htm>> RNZI has provided forms of reception reports for e-mail (Netscape users only) and postal mail. Please do not send cassettes. All DX reception reports must contain detailed programme information for verification purposes and be accompanied by two International Reply Coupons (IRC) or \$US 2 if a QSL is sought. E-mail reports will be verified by e-mail only.

UTC	kHz	Primary Target	Az.	Days
0459-0705	11820	All Pacific, also USA, Eu	0	Daily
0706-1059	9885	All Pacific	0	Daily
1100-1259	9885	NW Pacific, NE Australia, PNG, Asia	325	Daily
1300-1750	6095	All Pacific	0	Daily
1751-1850	9845	Fiji, Samoa, Cook Islands	35	Daily
1851-2050	11725	All Pacific	0	Daily
2051-2245	15720	All Pacific	0	Daily
2246-0458	17675	All Pacific	0	Daily

Bougainville/Timor Transmission 1105-1305 program is directed to the North Western Pacific and Asia for NZ Forces serving overseas. Sunday to Friday RNZI joins Radio Australia's Breakfast programme beamed to Asia and the Pacific on short-wave and satellite. Central and South Pacific frequencies - 15515, 13630, 12080, 11660, 11650. West Pacific 11650, 9660 kHz.

RNZI joins the VT Merlin DRM Service for listeners in Europe for people lucky enough to have a DRM capable receiver! (RNZI schedule at the web, 18 Aug 2004, via JKB)

NIGERIA: Transmission schedule of the *Voice of Nigeria (VON)*. Postal address: Voice of Nigeria, Broadcasting House, Ikoyi, P.M.B. 40003, Falomo Post Office, Lagos, Nigeria. E-Mail: <info@voiceofnigeria.org>, WWW: <<http://www.voiceofnigeria.org>>.

0500-1000 7255, 15120

1000-1900 7255

1900-2300 7255 (to SAM), 15120

(Jose Hernandez in CONEXION #271 via WDXC-HQ; July 10, 2004)

RUSSIA: On 30 July, Russia's *Mayak* service signed on for the first time and became the Soviet Union's first national 24-hour radio station. The station featured music, with news summaries every half hour. The interval signal, part of the song "Moscow Nights," has been used for the whole of the station's existence. To celebrate the anniversary, the radio's Web site is currently displaying rare archive pictures showing some of its correspondents.

<<http://www.radiomayak.ru/birthday/photos/index2.html>>. (©RNMN August 02, 2004; via JKB)

At the Digital Radio Mondiale (DRM) consortium's first-ever board meetings in Russia, the *Voice of Russia* announced the successful implementation and planned expansion of its DRM broadcasts on short-wave and medium-wave. Russian Prime Minister Mikhail Fradkov recently signed an order allowing for the Voice of Russia's DRM progress. The consortium held its quarterly meetings at the headquarters of the Russian Television and Radio Network (RTRN) and the Voice of Russia in Moscow from June 16 to 18. The Voice of Russia has been a DRM member since 1998. Voice of Russia currently transmits DRM broadcasts in Russian, English, German and French toward Europe, using a short-wave transmitter in Taldom, Russia, operated by RTRN's Moscow Regional Centre, and a medium-wave transmitter 603 kHz in Zehlendorf, Germany, operated by DRM member T-Systems International Media and Broadcast. The medium-wave transmitter, made by DRM member Telefunken, has been modified to operate in single-channel simulcast mode, which means that the Voice of Russia's broadcasts can be sent in analog and DRM formats. The Taldom broadcasts can be heard within parts of Russia. The Voice of Russia will expand its reach within and beyond Europe in the near future, using additional transmitters that have been adapted for DRM. This network includes a second short-wave transmitter operated by the Moscow Regional Centre,

a short-wave transmitter in Irkutsk, a short-wave transmitter in Khabarovsk, and a T-Systems International medium-wave transmitter, built by Telefunken, in Wachenbrunn, Germany. (From the 6/28 issue of Radio Currents via Joe Buch, Swprograms mailing list via DXLD #4-102, July 7, 2004)

SLOVAKIA: *Radio Slovakia International* announced on this week's Listeners' Tribune programme that its broadcasts will continue until at least the end of the year. The station is still trying to secure funding for a longer period, and says that support from listeners has been a significant factor in the decision not to close down on 1 July as had been threatened. (©RNMN July 26, 2004; via JKB)

SOUTH AFRICA: Changes in relay transmissions over *SENTECH* facilities A04. Schedule effective from 28 March 2004 to 30 October 2004. For unchanged transmissions see prior issue of DXM.

BBC. Cause of a lot of changes, hard to compare each item, given the complete BBC relay schedule:

Time UTC	Freq kHz	Tx kW	Target Area	Language
0300-0330	6050	500	East & Central Africa	Swahili
0300-0400	7120	500	West Africa	English
0300-0600	3255	100	Southern Africa	English
0300-0600	6190	100	Southern Africa	English
0400-0430	9840	250	East Africa	Swahili
0400-0500	7120	250	West Africa	English
0430-0500	3390	100	S. Mozambique	Portuguese
0430-0500	6135	250	N. Mozambique	Portuguese
0430-0500	7205	500	Angola	Portuguese
0500-0700	11765	250	West Africa	English
0530-0600	15400	250	East & Central Africa	Kirundi **
0600-1600	6190	100	Southern Africa	English
0600-1600	11940	100	Southern Africa	English
0700-0730	17695	500	Central Africa	French
1500-1530	21490	500	East & Central Africa	English
1530-1615	21490	500	East & Central Africa	Swahili **
1530-1700	21490	500	East & Central Africa	Swahili/Kirundi*
1600-2200	3255	100	Southern Africa	English
1600-2200	6190	100	Southern Africa	English
1615-1700	21490	500	East & Central Africa	English **
1700-1900	15420	250	East & Central Africa	English
1730-1745	3390	100	Southern Africa	English teaching
1730-1745	7230	500	East & Central Africa	English teaching
1730-1745	9525	500	Angola & West Africa	English teaching
1745-1800	7230	500	East & Central Africa	Swahili
1800-1830	7230	250	Indian Ocean Isles	French
2030-2100	3390	100	S. Mozambique	Portuguese
2030-2100	6135	250	N. Mozambique	Portuguese
2030-2100	7205	500	Angola	Portuguese
TWR additional transmission. Other TWR transmissions unchanged (see prior issues of DXM):				
1925-1940	9720	250	Mali, Burkina Faso	Moore *

*Monday to Friday ** Saturday and Sunday

(SENTECH website via JKB, 18 Aug 2004)

SWEDEN: *IBRA Radio* is a Christian radio ministry supported by local Pentecostal churches in Scandinavia. On the 29th of July, 1955, IBRA Radio (International Broadcasting Association) aired its first broadcasts from Tangier in North Africa. IBRA Radio is part of the Dagen Group which, besides radio ministry, also publishes a Christian daily newspaper (Nya Dagen) and operates a television ministry (TV-Inter). Other divisions in the Dagen Group include Samspar (insurance) and Mösseberg (rehabilitation). Mailing address: IBRA Radio, SE-141 99 STOCKHOLM, SWEDEN. E-mail: <ibra@ibra.se>, Web Site: <<http://www.ibra.org>>.

IBRA Radio, schedule created at 12 May 2004 as found on their website:

Area Station/Place	Day	UTC	Language	Frequency
AFRICA				

East Africa TJ, Germany	1234567	1730-1830	Swahili	15695
East Africa FEBA, South Africa	2 7	1718-1748	Yao	7265
East Africa FEBA, South Africa	4 6	1545-1600	Makonde	12125
East Africa TJ, Germany	1234567	1830-1845	English	15695
East Africa TW, Germany	1234567	1730-1800	Somali	15450
Ethiopia FEBA, Dubayya	1234	1700-1730	Oromo	6180
Ethiopia FEBA, South Africa	1234567	1630-1700	Amharic	12125
Ethiopia/Eritrea FEBA, Rwanda	1234567	1730-1800	Tigrinya	11690
Rwanda Radio Rwanda	7	1515-1530	Kinyarwanda	6055
West Africa TJ, Germany	1234567	1900-1915	Fulfulde	9675
West Africa TJ, Germany	1234 7	1915-1930	Hausa	9675
West Africa TJ, Germany	56	1915-1930	Tamajeq	9675
West Africa TJ, Germany	12 7	1930-1945	Moore	9675
West Africa TJ, Germany	56	1930-1945	Malinke	9675
West Africa TJ, Germany	34	1930-2000	Songhai	9675
West Africa TJ, Germany	12 567	1945-2000	Joula	9675
West Africa TJ, Germany	12	2000-2015	Bambara	9675
West Africa TJ, Germany	345	2000-2015	Zarma	9675
West Africa TJ, Germany	67	2000-2015	Wolof	9675
MIDDLE EAST-NORTH AFRICA				
Middle East JS, Russia	1234567	1900-2030	Arabic	9835
Middle East FEBA, Russia	2 4	0515-0530	Arabic	15530
North Africa TJ, Germany	1234567	2000-2100	Arabic	7340
North Africa HCJB, London	1	2200-2215	Arabic	12020
North Africa HCJB, London	2	2115-2130	Arabic	12020
North Africa HCJB, London	2 5	2200-2230	Arabic	12020
ASIA				
Afghanistan FEBA, Dubai	4567	0200-0215	Pashtu	9855
Afghanistan JA, Russia	1234567	1530-1600	Pashtu	9415
Afghanistan JA, Russia	1234567	1600-1630	Dari	9415
Bangladesh FEBA, Russia	1 34 7	1300-1315	Bengali	12005
Cambodia FEBC, Manilla	3 5	1245-1300	Khmer	7480
Central Asia JA, Russia	1234567	1630-1645	Hazaragi	9415
Central Asia JA, Russia	1234567	1645-1700	Uzbek	9415
China Taiwan	1234567	1230-1300	Mandarin	11520
China FEBC, Manilla	1234567	1500-1515	Mandarin	6120
China JV, Russia	1234567	1230-1300	Mandarin	7120
China JN	1234567	1230-1300	Mandarin	9830
China JP, Russia	1234567	1200-1300	Mandarin	59450
India FEBA, Russia	567	1415-1430	Hindi	9530
India FEBA, Russia	7	1315-1330	Kangri	11750
India GFA, Dubai	2	1230-1245	Kashmiri	15170
India FEBA,	5	0700-0715 (LT)	Marathi	9520
Pakistan FEBA, Russia	12	0230-0245	Hindko	12045
Pakistan FEBA, Russia	56	0215-0230	Punjabi	12045
Pakistan FEBA, Russia	7	0230-0245	Urdu	12045
Sinkiang KFBS, Saipan (FEBC)	1 3 5	1600-1615	Uighur	11580

1=Sun, .. 7=Sat, (LT) = Local Time.
(IBRA website via JKB, 18 Aug 2004)

SWITZERLAND: *Swiss Radio International* is to cease all radio broadcasts at the end of October, and will thereafter concentrate exclusively on its Internet platform, <http://www.swissinfo.org>. Starting August 1, a special series of radio programmes will look back at key events that have shaped SRI and Switzerland over the past seven decades. SRI ended its news and current affairs programmes in April, but broadcasts are continuing on shortwave and satellite until the end of October. During its last 12 weeks on air, SRI will be broadcasting a special half-hour programme each week to recall highlights since SRI first hit the airwaves in 1935. In the week starting August 1, listeners can hear how SRI evolved from the Swiss Shortwave Service - which went on air for the first time on August 1, 1935 - into swissinfo, which went online in 1999. Other programmes in the "Assignment Switzerland" series will profile personalities who shaped the country, the four Swiss cultures and the Swiss living abroad. SRI will also be looking back at key events in politics, science and technology, and the arts, and finding out what

outsiders think of Switzerland. The final programme in the series will look at how Swiss views of their own country have changed over the past half-century. Programmes will be available on shortwave and on demand via the Website. The first programme is already online as a "sneak preview". (©RNMN July 21, 2004; via JKB)

TURKEY: Frequency change for *TRT Voice of Turkey* in Spanish effective from July 27: 1630-1657 NF 13720, ex 13640 to avoid China Radio Int. now in French (ex English). (OBSERVER #322, Ivo Ivanov and Angel Datzinov, via WB, 2004 July 27)

UNITED KINGDOM: *Radio Six International* starts daily shortwave service On August 1st, Radio Six International is to launch the world's first-ever regular daily service from Scotland on shortwave for listeners in the United States, Canada and Western Europe, broadcasting from the facilities of WBCQ ("The Planet") in Maine, on 5105 kHz between ast 2300-2400 UTC. The station's unique programming is centered on unsigned and unpublished performers from around the world - rock bands from the USA, a classical guitarist from Japan, multi-instrumentalists from Russia, jazz outfits from England, singers from Denmark, percussion bands from Africa, even a symphony orchestra from Iraq, all with music that's never been heard on the radio before. The nightly programmes will include pop, jazz, country, pipers, lounge music, live sessions, world and Scottish news, new CDs and documentaries. And that's just the start, for Radio Six International aims to expand as soon as possible from just sixty minutes a day. There will be programmes for listeners of Scottish descent; and for those who simply want to hear new music. Broadcast live from modern studios in Scotland's biggest city, the Glasgow-based station intends to be a positive voice in the crowded shortwave bands. At the Web: <<http://www.radiosix.com>>. (©RNMN July 24, 2004; via JKB)

USA: The Washington, D.C.-based *National Association of Shortwave Broadcasters (NASB)*, a DRM member since 1999, will send DRM transmissions into North America starting on Saturday, July 24. The NASB programming will be sent from the Sackville, New Brunswick, transmitter site of DRM member Radio Canada International/CBC, and will reach the Eastern US and Canada. The NASB's members are 19 privately owned, US licensed, short-wave radio stations. Its associate members include non-US licensed broadcasters, manufacturers and others. DRM broadcasts of the following DRM members are also available in North America: BBC World Service; Deutsche Welle; RCI; Radio Netherlands; Swedish Radio International; and Radio Vaticana. DRM transmissions of China Radio International, Radio Kuwait and TDP Radio (a commercial, dance mix station from Belgium) also reach North America. For the latest DRM Live Broadcasts Schedule, visit <http://www.drm.org>. NASB will transmit the program Voice of the NASB via shortwave to North America on Saturdays, starting at 1700 UTC, at 11900 kHz. Voice of the NASB is a half-hour variety series jointly produced by various NASB members and associate members. It comprises documentaries, travel reports, mailbag programs, religious dramas, music, and station profiles. NASB has been sending DRM transmissions to Europe since 2003 via the Rampisham, England, transmitter site of DRM member and NASB associate member VT Communications. These transmissions will end on July 18th. "The success of our DRM broadcasts to Europe via VT Communications has proven to us beyond any doubt the tremendous capabilities of DRM to transmit programs with FM mono quality and with no fading, static or interference," said Jeff White, outgoing NASB President and Producer of Voice of the NASB. "We now look toward our home turf of North America, and we are delighted to bring DRM programs to listeners in the US and Canada in the coming months with the help of CBC." "The NASB broadcasts are a great addition to the growing range of DRM content available in North America," says DRM Chairman Peter Senger. "We applaud NASB's participation, and we invite broadcasters from around the world to join in providing radio listeners with DRM's superb clarity and excellent reception." Please note that although the broadcasts begin officially on July 24, there will be a test transmission on Saturday, July 17 at 1700-1730 UTC on 11900 kHz, via Radio Canada International/CBC. (©RNMN July 16, 2004; via JKB)

Schedule changes of the *Voice of America - VOA:*

1900-2000 1593 7465 11815 unchanged, but now 12020 (ex 12030) Persian
(VOA Website via JKB, 18 July 2004)

Sources & Contributors:

BBCM BBC Monitoring Service, Copyright (c)
 BC-DX News Bulletin by Wolfgang W. Bueschel - Germany.
 CONEXION CONEXION Digital - Buenos Aires, Argentina.
 DXLD Glenn Hauser's DX LISTENING DIGEST - USA.
 GH Glenn Hauser - USA.
 HJB Dr. Hansjoerg Biener, Amberg - Germany.
 JKB Dr. Juergen Kubiak, Berlin - Germany.
 OBSERVER Fortnightly edition of Radio Bulgaria's Frequency Management.
 RNMN R. Netherlands Media Network ©.
 WB Wolfgang W. Bueschel, Stuttgart - Germany.
 WWDXC-HQ WWDXC Headquarter, Michael Bethge - Germany.

Abbreviations:

<i>Target:</i>	<i>Target Prefix:</i>
ITU country code or	N North
Af Africa	E East
Am America	S South
As Asia	W West
Eu Europe	C Central
ME Middle East	
FSU Former Soviet Union	

Languages:	Other common abbreviations:
Ar Arabic	bc broadcast
Ch Chinese	lsb Lower Side Band Mode
Du Dutch	nd non-directional
E, En English	px program
F French	sce(d),
G, Ge German	sked schedule
Gr Greek	ssb Single Sideband Mode
I Italian	tx(er) transmitter
J Japanese	usb Upper Side Band Mode
K Korean	mm/dd/yy Date (month/day/year)
P Portuguese	dd.mm.yy (day.month.year)
R Russian	
Sp Spanish	
Turk Turkish	

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DX LOGBOOK

Logs around the clock

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MEDIUMWAVE BAND

Frequ.	UTC	SIO	ITU	Radio Station	Language	Programme Details	Date	Rep.
900.0	0335	322	E	SER,Vigo	Spanish	Tour de France	1907	MF
1152.0	0255	222	E	COPE,Albacete	Spanish	Tour de France	1907	MF
1161.0	0240	321	G	BBC Radio South three counties	English	ID,Music	1207	MF
1170.0	0250	333	G	Amber FM	English	Jingles,Music	1907	MF
1179.0	0315	323	E	SER,Rioja	Spanish	News	1407	MF
1269.0	0245	332	E	COPE,Badajoz	Spanish	ID,Iraq	1207	MF
1269.0	0220	321	G	COPE,Badajoz	Spanish	News	1907	MF
1287.0	0250	333	E	SER,Burgos	Spanish	Tourism	1207	MF
1296.0	0225	232	G	COPE,Valencia	Spanish	Football	1907	MF
1413.0	0230	222	E	RNE5,Gerona	Spanish	Antisemitism	1907	MF

TROPICAL BANDS

Frequ.	UTC	SIO	ITU	Radio Station	Language	Programme Details	Date	Rep.
3235.0	0310	211	B	Radio Guaruja Paulista	Portugese	Vocals and talks	2306	RAD
3291.2	0225	322	GUY	Voice of Guyana	English	Phone calls,ID and music	2807	RAD
3306.0	0325	211	ZWE	Radio Zimbabwe	Vernacular	Talks followed by ID	2707	RAD
4750.0	0237	322	SDN	Radio Peace	English	ID,musical interlude,religious program	2706	RAD
4780.0	0240	322	GTM	Radio Cultural,Coatan	Spanish	ID,Music and talks	2306	RAD
4810.0	0205	322	MEX	XERTA	Spanish	Religious songs,Anns	0908	RAD
4815.0	0202	222	B	Radio Difusora de Londrina	Portugese	Religious talks,music,ID	2707	RAD
4840.0	0020	211	IND	All India Radio,Mumbai	Hindi	Music and talk	1407	RAD
4875.0	0325	433	B	Radio Difusora Roraima	Portugese	Continouspop vocals and ID	2407	RAD
4905.0	0214	322	B	Radio Anhanguera	Portugese	Romantic Portugese lyric vocals	0608	RAD
4910.0	0246	322	ZMB	ZNBC	English	IS,ID,vocals and instrumental music	0608	RAD
4960.0	0058	322	EQA	Radio Federacion Shuar	Spanish	Vocals,ID,Sign off	1008	RAD
4976.0	0344	322	UGA	Radio Uganda	English	Pop music,News	2307	RAD
5010.0	0016	322	IND	AIR,Thiruvanthapuram	Hindi	Talks,ID,Flute music	1406	RAD

SHORTWAVE BANDS

Frequ.	UTC	SIO	ITU	Radio Station	Language	Programme Details	Date	Rep.
5930.0	1500	544	CZE	Radio Prague	German	ID,News	0408	SGF
5955.0	1215	544	HOL	Radio Nederland	Dutch	Report on babies,ID	0908	SGF
6005.0	2357	222	D	Deutscheland Radio	German	Music,ID,News	1207	RAD
6015.0	0303	211	TZA	Voice of Tanzania-Zanzibar	Arabic	Vocals	1007	RAD
6025.0	0220	322	VEN	Radio Intercontinental	Spanish	Jingles	1307	MF
6025.0	0220	222	BOL	Radio Illimani	Spanish	Talks,Argentina Uruguay football match	1407	RAD
6030.0	0400	333	D	Sudwestrundfunk	German	ID & World News	1907	RAD
6030.0	0347	211	CAN	CFVP	English	Talks	1907	RAD
6040.0	0300	211	SWZ	TWR	English	God has agood way	1307	MF
6040.0	0020	222	B	Radio Clube Paranaense	Portugese	Football match report,ID	0907	RAD
6075.0	1230	544	D	Duetsche Welle,Wertachtal	German	ID,Program	0908	SGF
6085.0	0845	544	D	BR-5,Ismaning	German	Music,ID,News	0908	SGF
6130.0	1500	544	AUT	AWR,Moosbrun	German	IS,ID,Religious program	0808	SGF
6185.0	1900	544	G	RTI via Skelton	German	IS,ID,News	3007	SGF
6230.0	1330	444	MCO	ERF	German	ID,Program	0408	SGF
6974.5	0040	322	ISR	Galei Zahel	Hebrew	Talks & Israeli pop vocals	1706	RAD
7105.0	1800	333	QAT	Radio Doha	Arabic	Advts, & News	2107	MF
7170.0	1800	444	CHN	CRI	German	IS,ID,Program	0208	SGF
7185.0	1745	444	BGD	Voice of Islam	English	IS,ID,Ann,Koran	0408	SGF
7185.0	1845	444	BGD	Bangladesh Betar	English	ID,News	0408	SGF
7185.0	1900	344	RRW	Duetsche Welle,Kigale	German	ID,News	0408	SGF
7210.0	0218	322	BLR	Radio Minsk	English	Feature on crime,ID and music	2307	RAD
7270.0	1529	544	POL	Radio Polonia	German	IS,ID,News	0508	SGF
7305.0	0306	554	CVA	Vatican Radio	English	Life in a Roman town	0908	RL
7330.0	1510	544	RUS	Stimme Russlands	German	Program on Putin	2607	SGF
7345.0	1200	544	CZE	Radio Prague	German	IS,ID,News	0908	SGF
7345.0	0800	544	SVK	Radio Slovakia Intl.,	German	IS,IDDX-Program	0908	SGF
7345.0	0105	454	CZE	Radio Prague	English	Mailbox	0908	RL
7385.0	0258	211	USA	WRMI	English	Wavescan 500th edition	0208	RAD
7415.0	0000	544	USA	Radio Six Intl., via WBCQ	English	Spl broadcast with music	0107	RAD
7450.0	2234	322	GRC	Radiofonikos Stathmos Makedonias	Greek	Vocals and talks	2906	RAD
7505.0	0154	444	USA	KTBN	English	Religious program,ID	2206	RAD
9500.0	0500	444	BUL	Radio Bulgaria	German	IS,ID,News	0308	SGF
9525.0	1816	454	INS	Voice of Indonesia	German	News & Commentary	1108	RAD
9525.0	1129	544	POL	Radio Polonia	German	IS,ID,News	0308	SGF
9545.0	1340	544	D	DW,Nauen	German	EU Program	0408	SGF
9565.0	1800	433	TWN	RTI	German	IS,IS,Program	3007	SGF
9565.0	0045	111	B	Radio Tupi	Portugese	Preaching,choir vocals	2406	RAD
9570.0	1730	333	CHN	CRI	English	IS,ID,Ann,News	0408	SGF
9570.0	1829	433	IRN	IRIB,Teheran	Albanian	IS,ID,Koran,News	0408	SGF
9580.0	2103	433	GAB	Africa No.1	French	News,ID	0708	RAD
9580.0	0450	534	YUG	Intl., Radio of Sebia & Monte Negro	English	Sports Round Up	1008	RL
9590.0	1522	554	AUS	Radio Australia	English	Asia Pacific program	1108	RL
9615.0	1600	434	ALS	KNLS,Alaska		Religious program	0808	RL
9630.0	1345	544	FIN	YLE,Radio Finland	Swedish	Report on Export Industry	3007	SGF
9660.0	1110	544	G	Radio Japan	German	ID,Focus program	0308	SGF
9660.0	0730	433	AUS	Radio Australia,Brandon	English	Id,News headlines and sports News	1307	RAD

9660.0	1905	211	RRW	FEBA	Arabic	Allah is not our way	1905	MF
9675.0	2350	322	ARG	Radio Libertad	Spanish	Missions program	1807	MF
9690.0	1415	544	I	RAI	German	IS,ID,News,Music	2607	SGF
9770.0	0037	322	CLN	SLBC	English	Continious pop instrumental music	1506	RAD
9780.0	0500	333	EQA	HCJB	German	IS,ID,HBF	0908	SGF
9795.0	1515	544	RUS	Stimme Russlands	German	Russian Market for Germany	2607	SGF
9795.0	0202	534	G	Wales Radio Intl.,	English	Celtic Notes	0708	RL
9870.0	0305	534	CZE	Radio Prague	English	Mailbox	0908	RL
9880.0	1000	444	CZE	Radio Prague	German	ID,News	2707	SGF
9885.0	2320	444	SUI	SRI via Sottens	English	Anns. & Music	0907	RAD
9960.0	0319	322	ARM	Voice of Armenia	Armenian	Local vocals and ID	3107	RAD
9935.0	0314	322	IRN	VOIRI	Arabic	Talks,music & ID	1008	RAD
9980.0	0238	322	ISL	AFN via Grindavik	English	Sports Byline USA	2406	RAD
9990.0	2223	554	EGY	Radio Cairo	English	Islam voice hope	0708	RL
11635.0	0408	554	NLA	RVI	English	Radio World	0908	RL
11690.0	1300	444	JOR	Radio Jordan	English	ID,Afternoon Show	0408	SGF
11700.0	0244	454	BUL	Radio Bulgaria	English	Radio Bulgaria Calling	0708	RL
11710.0	1100	544	G	NHK-World Radio Japan	German	ID,Ann,News	0308	SGF
11715.0	0153	322	IND	All India Radio,Delhi	Nepales	Hindu vocals and talks	0908	RAD
11740.0	0638	322	CVA	Vatican Radio	English	News,ID	2207	RAD
11755.0	1030	544	FIN	YLE,Radio Finland	Finnish	ID,Ann.,Report,Pop music	0208	SGF
11785.0	0124	222	B	Radio Guaiba	Portugese	Talk,ID,Instrumental music	1107	RAD
11795.0	0247	333	UAE	Salaam Watandar	Pushto	Talks,ID	0907	RAD
11815.0	0237	322	B	Radio Brasil Central	Portugese	Football Sports and ID's	2107	RAD
11860.0	0256	333	IRN	VOIRI	Armenian	Opening Anns. & News	2207	RAD
11865.0	2120	322	RRW	Duetsche Welle	English	German by Radio	1707	MF
11925.0	2328	222	KWT	VOA	English	News Now Program,ID	0208	RAD
11975.0	0320	221	UAE	AWR via Abu Dhabi	Amharic	Music and Talks	2107	RAD
11975.0	2140	333	MLI	CRI	French	Entertainment	1007	MF
12020.0	1020	544	POR	RDP Internacional	Portugese	ID,Ann,Sports Magazine	0308	SGF
12095.0	1000	544	G	BBC,Woofferton	English	ID,News,Report on Australia	0208	SGF
13760.0	1130	544	TUR	Stimme der Turkei	German	IS,ID,News,Press	0808	SGF
13775.0	1528	434	CAN	Radio Austria Intl.,	English	Weekly Review & Postbox	0708	RL
15130.0	1845	222	ASC	FEBA	French	Jesus is our life	2107	MF
15160.0	1620	322	AFS	RFI	English	News Magazine	1107	MF
15245.0	0510	344	CHN	CRI	German	News,ID	0408	SGF
15250.0	1140	544	ROU	RRR	French	ID,Hitparade	2707	SGF
15270.0	1158	544	ROU	RRR	German	IS,ID,News	1207	SGF
15395.0	2003	433	UAE	UAE Radio	Arabic	Non stop middle easter vocals	1007	RAD
15455.0	0900	444	RUS	Stimme Russlands	German	IS,ID,News,Reports	2707	SGF
15475.0	1730	222	GAB	Africa No. 1	French	Tour de France	1107	MF
15495.0	2000	333	KWT	Radio Kuwait	Arabic	Mohammad & Kuwait	1807	MF
15505.0	2000	333	KWT	Radio Kuwait	Arabic	Mohammad & Kuwait	1807	MF
15580.0	1950	322	STP	VOA	English	African Themes	1807	MF
15585.0	1025	544	E	REE,Noblejas	Spanish	ID,Immigrant project	0208	SGF
15650.0	1330	444	GRC	ERT,Athens	German	ID,Ann.,News,EU-Iraq	1907	SGF
15700.0	1030	544	BUL	Radio Bulgaria	German	IS,ID,News,	2707	SGF
15775.0	1230	333	ISL	Radio Rikisutvarpid	Icelandic	ID,Political Report	2807	SGF

17490.0	1435	444	CHN	CRI,Kashgar	English	ID,Report World Heritage	2607	SGF
17560.0	1445	333	USA	WHRA	English	Report Court documents,ID	2607	SGF
17590.0	0922	111	RUS	Radio Ezra	English	Talks & ID	1107	RAD
17630.0	1430	444	GAB	Africa No.1	French	ID,Report creation musique	2707	SGF
17700.0	1332	211	???	Salaam Watandar	Pusho	Talks & music	1007	RAD
17720.0	0530	344	CHN	CRI	German	ID,Program	2807	SGF
17775.0	1653	433	USA	La Voz de Restauracion	English	Religious music,ID	2606	RAD

Thanks a lot to our club members for your contributions:

MF : Michael Frese, Osnabrueck, Germany. SONY ICF SW 7600G with Telescopic antenna & Frame antenna for Medium Wave logs.

RAD : Richard A. D'Angelo, Wyomissing, USA. Ten-Tac RX-340, Drake R-8B, Lowe HF-150 with Alpha Delta DX Sloper, Datong FL3, JPS ANC-4

RL : Richard Lemke, St. Albert, Alberta, Canada. JRC NRD-535 HF with random long wires

SGF : Siegbert Gerhard, Frankfurt, Germany. OTANY KK-959 Digital with build up whip antenna 50cm.

Dear Friends,

Welcome to the August edition. Thanks to the members who keep listening and sending their loggings.

Till next issue it's 73's from your Editor,

Ashok Kumar Bose

QSL CORNER

Editor: Richard Lemke, 60 Butterfield Crescent, St. Albert, Alberta, T8N 2W7, CANADA

Country	Station	QSL	Time	ORG	Remarks	OM
Albania	R. Tirana	f/d cd	25 ds	1458 khz		HJK
Antigua	DW Relay	f/d cd	23 ds	9690 Khz		HJK
Antigua	DW Relay	f/d cd	19 ds	6.100		HJK
Argentina	RAE	f/d cd	382 ds	15345		HJK
Armenia	Voice of Armenia	f/d, L	77-132 ds	9.960		HJK
Ascension Is.	Voice of America	f/d cd	129 ds	7160	v/s, John Vodenik at Delano	RAD
Austria	AWR, Moosbrunn	f/d cd	56 ds	6130	via Darmstadt, Germany	HJK
Belarus	Radio Minsk	f/d cd	14-21 ds	1170 khz		HJK
Bulgaria	Radio Bulgaria	f/d, L	21 ds	11.700		HJK

China	China Tibet Peo. Brdcsting C.	Letter	208 ds	7385		RAD
China	CRI	f/d cd	41 ds	15245		HJK
Cland. Uganda	Radio Rhino International	Letter	220 ds	17555	via Juelich lists 17880 Khz v/s, Godfrey Ayoo, Director.	RAD
Cyprus	Cyprus Brdcsting Corp.	f/d cd	26 ds	6180	7205/9760 khz	RAD
Czech Rep	Radio Prague	f/d cd	14 ds	1287 khz		HJK
Ecuador	HCJB	f/d, L	56 ds	9780		HJK
Egypt	Radio Cairo	f/d cd	59-131 ds	9.990		HJK
England	Sudan Radio Service	n/d, L	11 ds	11665	via Kenya address.	RAD
England	Radio Napa via Merlin	e-mail	1983 ds	9915	v/s, Nathan Morley	RAD
France	ERF	f/d cd	3 ds	1467 khz		HJK
Gabon	NHK, Moyabi	f/d cd	34 ds	11915		HJK
Germany	WSHB, Juelich	f/d cd	55 ds	5.985		HJK
Germany	NDR	f/d cd	11 ds	972 Khz		HJK
Germany	DW, Nauen	f/d cd	8 ds	15275	Pennant	HJK
Germany	HCJB, Juelich	f/d cd	34 ds	6015		HJK
Germany	Voice of Russia	f/d cd	56 ds	1323 khz		HJK
Germany	DW, Wertachtal	f/d cd	8 ds	13780		HJK
Germany	SWR	f/d cd	38 ds	1017 Khz		HJK
Germany	ERF	f/d cd	15 ds	1539 khz		HJK
Germany	Bible Voice Broadcasting	e-mail	12 ds	6010	6010 (Wertachal) 9690 (Juelich)	RAD
Germany	SRI, Juelich	f/d cd	14 ds	13650		HJK
Great Britain	RKI, Skelton	f/d cd	22-66 ds	3.955		HJK
Great Britain	Radio Taiwan Int	f/d cd	33 ds	6170		HJK
Great Britain	NHK, Skelton	f/d cd	65 ds	11.710		HJK
Great Britain	WYFR (Family Radio)	f/d cd	35 ds	3.955		HJK
Greece	Voice of Greece	f/d cd	21-43 ds	15650		HJK
Hungary	Radio Budapest	f/d cd	17 ds	6025	Pennant	HJK
Hungary	Hungarian Catholic Radio	Letter	20 ds	1341 khz	Magyar Katolikus Radio	GS
India	All India Radio-Bangalore	Letter	39 ds	15075/13 695	v/s, R. Narasimha Swamy	RAD
India	All India Radio Imphal	f/d cd	108 ds	4775	v/s, A.K Bhatnagar	RAD
Iran	Voice of Iran	f/d, L	79-132 ds	17590	Diploma for 100 RR's	HJK
Italy	RAI	n/d cd	27-39 ds	657 Khz		HJK
Kaliningrad	Voice of Russia	f/d cd	60 ds	1386 Khz		HJK
Korea South	Radio Korea Int-KBS	f/d cd	39 ds	15210		HJK
Korea North	Voice of Korea	f/d, L	33 ds	6675	Pennant	HJK

Monaco	ERF	f/d cd	11-54 ds	7160		HJK
Neth Antilles	DW, Bonaire	f/d cd	15 ds	11970		HJK
Norway	R. Denmark, Svelo	f/d cd	14 ds	9.590		HJK
Norway	R. Denmark, kvitsoy	f/d cd	14 ds	7490		HJK
Pirate Europe	R. DR. Tim	f/d cd	10-46 ds	6280.7	Pennant	HJK
Pirate Europe	R. Toyota	f/d cd	10 ds	6305.4		HJK
Pirate (N am)	Ironman Radio	f/d cd	1 month	6925	(#43 cd) from Scruffy Swab	RAD
Pirate Europe	Zender Grenspiraat	f/d cd	10 ds	6295.6		HJK
Pirate (N am)	WBMR Radio	e-mail	6 hours	6925	v/s, Mike O Farad	RAD
Pirate (N am)	Vo.of Captain Ron Shortwave	f/d cd	6 months	6950	v/s, Captain Ron.	RAD
Poland	Radio Polonia	f/d, L	22-38 ds	9525		HJK
Russia	Voice of Russia	f/d cd	60-68 ds	12010		HJK
Russia	R. Prague, krasnodar	f/d cd	14 ds	5.990		HJK
Russia	Radio Rossii	f/d cd	131 ds	17600		KPH
Russia	RVI, Krasnodar	f/d cd	17 ds	9925		HJK
Slovakia	RSI	f/d cd	37 ds	6055		HJK
St. Helena	Radio St. Helena	f/d cd	944 ds	11092.5	Oct. 1999 v/s, Tony Leo	RAD
St. Helena	Radio St. Helena	f/d cd	1,666 ds	11.092.5	from Ralph H. Peters, Station Manager.	RAD
Sweden	R. Sweden	f/d cd	7 ds	1179 Khz		HJK
Taiwan	CBS R. Taiwan Int. (RTI)	f/d cd	33 ds	9955		HJK
Turkey	TRT, Ankara	f/d cd	26 ds	13760		HJK
USA	Radio Free Asia	f/d cd	9 ds	9365	site (Armenia)	RAD
USA	WSHB	f/d cd	55 ds	7335 Khz		HJK
USA	WYFR (Family Radio)	f/d, L	22-80 ds	9355	Book	HJK
USA	Radio Free Asia	f/d cd	9 ds	11975	15695 site, (Tajikistan)	RAD
USA	Radio Free Asia	f/d cd	9 ds	11695	site (UAE)	RAD
USA	Radio Taiwan Int	f/d cd	29-33 ds	7520		HJK
Uzbekistan	Radio Tashkent	f/d, L	59-97 ds	5025		HJK

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GS = Giovanni Sergi, Italy.

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KPH = Klaus-Peter Hilger, Germany.

RAD = Richard A. D' Angelo, Wyomissing, PA, USA. Drake R-8B, Lowe HF-150, Alpha Delta DX Sloper, RF Systems Mini-Windom, Datong FL3, JPS ANC-4.

Radio in India - Akashvani: The Voice From The Sky by Yashwant Parashar

The term All India Radio has easily entrenched itself in the collective consciousness of Indians. In spite of its tumultuous path, radio continues to be a part of our lives. This is the story of AIR.

From the moment it was established that the human voice could be transmitted by electromagnetic waves over long distances without the help of wires, radio has exercised a strange fascination on people's minds. This is as true of India as anywhere else in the world.

The first regular broadcasting station in the world is believed to have been opened in Pittsburgh (USA) in 1920. In England, the first radio programmes were broadcast successfully on February 23, 1920, by the Marconi Company from Chelmsford, although it was not till November 1922 that the British Broadcasting Company, with John Reith as its Managing Director, went on air with regular programmes.

PRE - INDEPENDENCE INDIA

It is interesting to note that as early as August 1921, in India, newspaper giant 'The Times of India' collaborated with the Posts and Telegraphs Department to broadcast a special programme of music from its Bombay (Mumbai) office at the request of Sir George Lloyd, the Governor of the Province, who heard it in Poona (Pune), 175 kms away. After that, the evolution of broadcasting in India proceeded in a climate of much uncertainty. As elsewhere in the world, the government was slow to recognize its importance, and the enthusiasm for it came mostly from radio homes that took it up as a hobby.

Today, after more than 75 years, listeners are taking the services of 214 broadcasting centers for granted. So, it is not easy for most people to imagine what it was like in the beginning, what work had to be done, and what decisions taken for the journey of radio to begin. Alongside those who saw broadcasting as ideally suited to the needs of a country where illiteracy was high with most people lacking the means for education and entertainment, there were many prophets of doom, too.

The Radio Club of Bengal, Calcutta (Kolkata), started transmitting programmes on a small Marconi transmitter in November 1923. The Bombay Radio Club inaugurated a similar service in June 1924, also on a Marconi transmitter. The Madras Presidency Radio Club was formed on May 16, the same year, by a group of dedicated amateurs with Viscount Gohan, Governor of Madras, as its patron.

It was the Indian Broadcasting Company that took upon itself the pioneering task of starting regular broadcasting in India. Its authorized capital was Rs 15 lakh and subscribed capital was Rs 6 lakh. The main shareholders were Raja Saheb Dhanrajgirji Narsinghji and the Indian Radio Telegraph Company. The rest was contributed by numerous shareholders. For all practical purposes, the Indian Telegraph Company, of which the Marconi Company held two-third of the capital, exercised control.

Technically, the Bombay and Calcutta stations were the same as the London 2LO station. Each cost about two lakh rupees to erect, and the estimated cost of running and maintaining each was Rs 1.8 lakh per annum, of which approximately Rs 50,000 was earmarked for programmes giving an average expenditure, on this score, of Rs 137 per day. Both these medium-wave transmitters operated on a power of 12 kW, and the assured reception range of each was 48 to 80km, although in actual practice, the signal was received at a fairly good strength and at greater distances.

Mr Eric E Dunstan of the BBC was taken on as the first General manager of the first General manager of the Indian Broadcasting Company. Lionel Fielden, who later became the first Controller of Broadcasting in India, wrote about Dunstan in his autobiography, 'The Natural Bent': "Where in 1927, a member of the BBC, Eric Dunstan, the 'Golden Voiced Announcer' of the day was just leaving England to take charge of India Broadcasting, I envied him, in spite of the low value we attached to broadcasting in those days. I envied him in India; I envied him what I conceived to be the business of transmitting barbaric music of jeweled instruments to a population of India Princes in the intervals of holding profound converse with sages of charm and infinite wisdom. "With such romantic notions, it is no wonder the Fielden too left India a disappointed and frustrated man in 1940.

Organised broadcasting in India began when the British Viceroy of India, Lord Irwin, inaugurated the first station of the Indian Broadcasting Company (IBC) in Bombay on July 23, 1927. Five weeks later, on August 26 1927, the Governor of Bengal, Sir Stanley Jackson, inaugurated the Calcutta station. The stations were operating on medium wave on 1.5 kW power, and broadcasting by the end of the year to 3,594 licence holders. The broadcasting studio in Radio House at Apollo Bunder was connected by a P&T line to a transmitter located at Worli. The acoustic treatment of the studios, such as the hanging of coloured drapes, attracted considerable attention in the press. Around this time, a small transmitter was established by the Radio Club of Young Men's Christian Association in Karachi (now in Pakistan).

The revenue of the IBC consisted of 80% of the licence fee charged by the government at the rate of Rs. 10 per annum, and a tribute of the invoice value of the wireless receiving apparatus, which had to be collected by the company from the dealers. After the company had put in the initial cost of installation of the stations, it had little resource to fall back on. The number of licences was too small to meet the company's expenses. The number of sets at the end of 1928 was over 6000, but the annual increase was not even 1000. The company approached the government for assistance. In spite of a loan being advanced by the Indian Post and Telegraph Company, IBC went into premature liquidation from March 1, 1930.

The government decided to take over the stations in Bombay and Calcutta at the depreciated value of its assets and staff at the existing term of the company. So, from April 1930 broadcasting in India came under the direct control of the government. It was placed in the Department of Industries and Labour under the designation of "Indian Broadcasting Service." Faced with recession, the government announced in a press communiqué of October 10, 1931, that it had finally decided to close down the broadcasting service.

The decision, naturally, caused wide spread resentment and a certain amount of agitations, especially in Bengal. The decision was then reversed on November 23, the next month. The government decided to continue the service by increasing duty on the receiving sets and valves separately from the existing 25% to 50%. By May 5, 1932, the government had decided to continue Indian Broadcasting Service under state management. By the end of the year, when BBC started its Empire service, the number of receivers was 8,557. This increased to 10,872 by the end of 1933, and jumped to 16,000 by the end of 1934, when the government embarked on a policy of development of broadcasting by sanctioning Rs 2.5 lakh for the establishment of a radio station in Delhi.

In spite of the formation of the Indian Broadcasting Service, parallel efforts to expand broadcasting continued. The Marconi Company had started rural broadcasting in the North West Frontier Province by loaning both, the transmitters and receiving sets, to the provincial government. The Agricultural Institute at Naini, Allahabad, too, started transmitting rural programmes for the benefit of the neighborhood.

In September 1935, broadcasting began in the princely state of Mysore with the name Akashvani (the voice from the sky). Dr. Gopalaswami, Professor of Psychology at the Mysore University, had set up a 30-watt transmitter at his house. A 250-watt transmitter was later imported. It continued with support from the public and the Mysore Municipality till it was taken over by the Mysore State in 1941,

The Delhi station of the Indian State Broadcasting service went on air on January 1, 1936, from temporary studios at 18 Alipur Road. The 20kW MW transmitter was located at Mall Road. By now, Controller of Broadcasting Lionel Fielden was able to persuade Viceroy Lord Linlithgow to adopt the name 'All India Radio' despite opposition from the secretariat. The new name was adopted from June 8, 1936. Later in December, Lahore (now in Pakistan), the fifth station (5kW MW) was commissioned.

Apart from launching the name 'All India Radio', and getting together a group of dedicated young people, Fielden and his chief engineer, Goyder, should be remembered for the short wave coverage of the entire country, which they achieved quickly by 1938. In fact, Goyder differed with Mr Kirke's plan for medium wave coverage of the country, as he felt it would take long, and large parts of the country would remain uncovered. The first 10kW short wave transmitter was commissioned in Bombay on February 4, 1938.

Another decision for which Fielden was responsible was the banning of the harmonium on March 1, 1940. Even though the matter was raised in the Station Director's Conference in 1939, the decision came mainly as a result of Fielden's initiative following an article by a western music expert, Mr. John Foulds, who pointed out that the tempered scales of the harmonium into 12 mechanical divisions were not suited to produce the microtones (shruties) which form the basis of Indian music.

POST INDEPENDENCE INDIA

Fielden was succeeded by Ahmed Shah Bokhari, who remained the Director-General for all the years of the Second World War, and thereafter till the partition of the country. When the Ministry of Information was set up on October 24, 1941, All India Radio became a part of it. AIR moved to its new Broadcasting House on Parliament Street on February 1943.

On June 3, 1947, Viceroy Lord Louis Mountbatten, Jawaharlal Nehru and Mohammed Ali Jinnah made their historic broadcasts on the partition of India. The transfer of power on the midnight of 14-15 August, 1947, was broadcast live, and Jawaharlal Nehru's famous 'Tryst with destiny' speech was heard all over the country. It has been preserved in the archives of All India Radio for all posterity. When the princely states were integrated with India, low power radio stations at these palaces were taken over by All Indian Radio and became part of the network by 1950. The Staff Training School was started on July 19, 1948, with Dr. Narayana Menon as its first Director.

When over as Deputy Director (and later Director) on September 15, 1948, the External Services was separated from what was then known as the Central news Organisation (now News Services Division). By 1950, AIR was broadcasting in 11 languages. When the Constitution of India was enforced on January 26, 1950, broadcasting, along with post, telegraphs, telephones and wireless, was placed in the union list of the seventh schedule.

On July 20, 1952, the first National Programme of Music went on air. In October the same year, the National orchestra of AIR was set up in Delhi under the conductorship of the eminent musician Pandit Ravi Shankar. Renowned Carnatic violin player, T K Jairama Iyer, later joined the orchestra

as the second conductor. National Programme of talks (English) went on air in April 1953, and in October 1955, the first Radio Sangeet Sammelan was broadcast.

However, the biggest impact of Indian music on the radio was felt only in the years when Dr. BV Keskar was Minister for Information & Broadcasting (1952-61). He was highly knowledgeable about Hindustani Classical Music and took several steps with the intention of improving its range and quality, and encouraging musicians in this category. The cheap, hybrid quality of film songs had caused concern to AIR even in pre-Keskar days, and some effort was made to see if the service could prepare some good, light music itself. Keskar had no patience with film songs, and soon after he took over, he decided that film songs were to be phased out totally in 18 months.

The drastic restrictions placed on the use of film songs created a situation that could not have been anticipated by the ministry. Listeners turned increasingly to Radio Ceylon (now Sri Lanka), which stepped up the broadcast of such songs. Its commercial service began to attract advertisers of consumer goods in India in large numbers. In a couple of years, it became clear that listeners had defected to Radio Ceylon in large numbers. To control the situation, some of the steps taken had to be retracted, and in February 1955, it was decided to relax the restrictions placed on the use of film songs at AIR stations to a considerable extent. The All India Variety Programme, popularly known as Vividh Bharti, was introduced on October 3, 1957. It consisted mainly of film songs, bringing back with a vengeance what need not have been banned in the first place. The creation of this new channel has had serious implications to the general pattern of listening to AIR stations, and these have not received sufficient thought. At present, there are 36 Vividh Bharti and Commercial Broadcasting Stations operating in the country on MW, SW and FM.

The Radio Sangeet Sammelan was started in 1955. The concerts, before invited audiences, are held all over the country. More than 50 prominent artistes take part in concerts held at major stations before a live audience. These recordings are then broadcast as a season of around a month in October and November and, at times, till December. Following a request from Acharya Binoba Bhave to Dr. Keskar, Akashwani made recordings of chanting of selections from the 'Sama Veda' and 'Rig Veda' in 1955. The idea was to preserve this ancient oral art before Vedic scholars disappeared completely, as was perceived to be happening. A cultural renaissance of sorts took place on air in the '50s. Litterateurs, musicologists, musicians, writers, poets and playwrights were invited to produce programmes of deep meaning and profundity.'

The first, high definition, public TV service was started by the BBC in 1936, and resumed in 1946 after over six years of interruption caused by World War II (1939-45). In India, we did not begin this till September 15, 1959, and then too with a small studio rigged up on the fifth floor of Akashvani Bhavan. Dr. Rajendra Prasad, the then President of India, inaugurated the service named 'Doordarshan' in Hindi. Even though poorly equipped and short staffed, the young pioneers showed much initiative, and the Republic Day Parade and the Flag Hoisting ceremony on Independence Day were telecast live in 1960, as also some state visits by foreign dignitaries.

On December 4, 1964, the Government of India, under the chairmanship of Ashok K Chanda, set up a committee on broadcasting and information media, which made a report on April 18, 1966. This was the first ever, independent review of broadcasting in India, ordered at the initiative of Indira Gandhi, the then Minister of Information and Broadcasting. The committee recommended, among other things, the setting up of two autonomous corporations for radio and television. While this recommendation was found unacceptable, its recommendation for introduction of Commercial Broadcasting was accepted. In the year 1967, commercial advertisements in the Bombay-Pune-Nagpur chain of Vividh Bharti stations commenced. Yuv Vani was inaugurated as a separate channel for the youth in 1969. The Prasar Bharti bill achieved autonomy to some extent only recently.

In January 1976, commercial advertisements were also introduced in television centers, and on April 1 of the same year, television was formally separated from All India Radio. The first FM service was started from Madras (Chennai) on July 23, 1977. FM transmitters were also commissioned in Calcutta and Bombay during 1979-80. These FM broadcasts had many more advantages in audio quality, although not much was utilized because of lack of hi-fi production facilities.

During the cold war period, not only AIR, but many stations from abroad were broadcasting for their audience in India. Voice of America and Radio Moscow were busy making their arguments and trying to put their point of view forward. BBC also developed from strength to strength, and even now has a large population tuned to it in rural and semi-urban areas. Radio Australia gained prominence and was heard clearly in India, and Radio Deutsche Welle started broadcasting in Hindi from Germany. Apart from these, for around two decades or more, Radio Cylone held a captive audience in India: the Binaca Geetmala, hosted by the iconic Ameen Sayani, was enough evidence of it.

August 15, 1993, saw the introduction of time slots on FM channel to private parties in Delhi-Mumbai. In 1993 and 1994, time slots were given to private parties in Chennai and Kolkata, respectively. The first multitask recording studio was commissioned in Mumbai on Sept. 10, 1994, and it followed in other places in time to come.

The introduction of time slots to private parties had some teething problems for a few years, but has begun making the FM popular in the cities. By this time, television has become firmly entrenched as the information and entertainment medium, and replaced the radio sets in the living rooms. The advent of cable TV and dish antenna has had a major impact on the listenership. The erstwhile listeners are mostly hooked to their TVs, and the radio remains popular mostly with the rural folks. However, a new chapter has begun with the granting of licences and frequencies on the FM to private parties. The composition of programmes on these FM channels has become more listener-oriented, departing from the objectives of the AIR.

The Internet brought in a new kind of service, and AIR launched on-line information services on the internet, offering audio on demand. In 1997, Digital Audio Broadcasting was introduced in Delhi on experimental basis. In recent times, many advanced and different formats of broadcasting have started. Worldspace started a digital satellite service with its selection of channels offering music and information. Its satellite, Asianstar, covers the whole of India. 2003 saw the launch of Direct-to-Home (DTH) services, mainly for the TV telecast with hi-fidelity sound quality.

The All India Radio has an archive full of tapes of great importance. These include performances by the great masters of yesteryears, momentous speeches of leaders, talks, etc. some of these have been released in that past on LPs and tapes, commercially. Recently, in 2003, AIR released music by maestros like Pt Omkar Nath Thakur and D V Paluskar, among others, on tapes, and is selling it directly from its stations.

Today, the radio is emerging as a new medium. Most automobiles rolling out of shops are fitted with some kind of radio. At one time, in the not so distant past, people were ready to sound the death knell of the radio. But with new innovations and advancements, radio continues to be a part of our lives in some form or the other.

(Published in AV MAX, via Mukesh Kumar, Muzaffarpur, India - E-mail: <thecosmosclub@yahoo.co.in>)

A visit to All India Radio - Bangalore SW Transmitter site by Jose Jacob, VU2JOS

Bangalore is the capital of Karnataka state in South India. It is known as the Garden City of India.



Recently when I returned from my native place in Kerala to my work place in Hyderabad, I took detour via Bangalore so that I could visit the AIR Superpower SW station there by prior appointment.

I reported at their City office at Yelahanka New Town which itself is 17 kms away from the city. Their staff quarters and guest rooms are also located there. I accompanied the Suptg. Engineer and Station Engineer to the actual transmitter site which is near Aralu Mallige Village, Doddaballapur about 45 kms away in a remote area. On the way we can see several vineyards and the transmitting towers are visible from a long distance.

The Super Power Transmitter (SPT) site is in a 632 acre (255 hectare) site and it houses 6 numbers of 500 kw transmitters made by British Brown Boveri in Switzerland. It is the most powerful SW transmitter site in South Asia.

All the transmitters are in a large hall with 4 transmitters on one side and 2 on the opposite side. Each transmitter is named after a major Indian river as follows:

BL1 Ganga BL2 Cavery BL3 Yamuna BL4 Krishna BL5 Narmada BL6 Godavari

In the first phase, 2 transmitters of BBC SK 55 C3 2 type were installed. Test transmissions were conducted from November 1989 to February 1990 and it was inaugurated on 9th March 1990. In the second phase, 4 more transmitters of BBC SK 55 C3 2-P were inaugurated on 28 Sept 1994 which uses Pulse Step Modulation (PSM) technology. They operate on latest power saving Dynamic Carrier Control (DCC) technique. It has facility to operate even in SSB mode. These transmitters can operate between 5.9 to 26.1 MHz but now a days they use frequencies between 9 to 17 MHz. The transmitters have automatic tuning facility and can change frequencies in about 30 seconds. Currently BL2 & BL 4 are off air due to shortage of the final valve problems. Each valve costs about 1 crore Rupees. A siren is sounded just before any transmitter is switched on. There are no transmissions from here between 0530 to 0900 UTC (11.00 am to 2.30 pm local time) and they do the maintenance work etc. at that time. Occasionally 2 transmitters use the same frequency with the same programs of course.

AIR is having a 66 KV, 20 MVA electrical substation exclusively for this station. For the cooling purposes, there are 9 numbers of 30 ton chilled water type air conditioning plants .

There are 36 multi band curtain aerials hung between 21 towers of heights varying between 60 to 115 Meters. They have slewing facilities with remote operation of Antenna Change Over and Slew switches. The antennas are in 3 zones with 8+8+5 towers. It can beam in 8 directions and is broadcasting to all areas of the world except the Americas. Any aerial can be selected on any transmitter. The antenna feeder line is 19 kms long. The strength of the staff is about 100. The transmitter building is in the shape of a hammer and is well shielded.

The transmitters were initially used exclusively for External Services of All India Radio. However now a days it also used for the national programs viz Vividh Bharath on 10330 kHz and the National Channel on 9425 kHz. Currently External Services in the following languages are

broadcast from here viz. Arabic, Chinese, English, French, Gujarathi, Hindi, Kannada, Russian, Tamil and Telegu.

The programs are received by satellite from New Delhi studios (except for the Kannada programs which is received from the AIR Bangalore studios via the STL UHF link on 1440 MHz).

There are 2 standby studios here and I could see tapes in various languages of AIR External Services to be used during any failure of program links but it has been hardly used. At the entrance there is a large world map showing the beam headings. The station has won several awards for its excellence which are displayed. The compound wall is 9 kms long. We have to pass through two security gates to enter the building. Photography / Video recording is strictly forbidden.

I was told that Reception Reports received here are replied directly in the same mode (by email or post). However most publications list their old address and letters reach here only after a lot of wandering. The exact address of the concerned office is:

Mr. R. Narasimha Swamy, Superintending Engineer, Super Power Transmitters, All India Radio, Yelahanka New Town, Bangalore 560064, Karnataka, India - Email: sptairnk@vsnl.com

Most of the QSLs for this station are issued from the AIR HQ in Delhi.

(Jose Jacob, National Institute of Amateur Radio, Raj Bhavan Road, Hyderabad 500082, India)

The history of RAE - Radiodifusión Argentina al Exterior



RAE, The International Service of the Argentine Radio celebrated its 45th Anniversary on February 12 of 2003.

However, interest in Short Wave transmissions abroad came alive before that date, on April 11, 1949, when the then President of Argentina, Juan Domingo Perón, created the International Service of the Argentine Republic, its Spanish initials being SIRA, which broadcast in seven languages almost around the clock.

As a consequence of the military coup which overthrew Perón's constitutional government in September 1955, the service was cut short but rekindled again as Radiodifusión Argentina al Exterior, RAE, three years later, in 1958, and has from that moment on continued its service uninterruptedly fulfilling its principle aim of informing the world about Argentina.

RAE occupied the antiquated studios of Radio del Estado (The State Radio), today Radio Nacional, until 1980, when it was housed at the Central Post Office Building. It was later transferred to its own site on 1556 Ayacucho Street in this capital city and was known as Radio Nacional proper.

And finally, in 1990, the National Radio pulled up stakes, and moved to a beautiful building especially constructed to house El Mundo Radio on 555 Maipú Street, a historical building with everything necessary for a fully-fledged radio broadcaster, the only one of its kind in the country, which included an ample auditorium, generally open to the public for cultural events and musical recitals.

The building where RAE has its offices is 3 stories high, and is the headquarters of LRA1 Radio Nacional Buenos Aires and its 3 Stereo FM Stations: 96.7 for its Classical Music Programmes; 98.7 La Floklórica (which airs folkloric music) and 87.9 Faro (Lighthouse), dedicated to airing programmes for the younger generation.

RAE in particular concentrates on divulging all types of activities which have to do with our everyday reality, the being and wellbeing of Argentines.

Transmissions focus on everything there is to know about the country, its economy, politics, industry, social and cultural life, its history, geography, traditions and customs.

In developing its information, RAE takes very much into account its known worldwide legion of listeners, knowledgeable of the fact that it represents the only permanent source of State Government news on what is daily going on in the country, which it naturally seeks to reveal and project on an international level, with a keen eye on transmitting exact and clear-cut information.

Music, of course, occupies an important space within RAE's programming. All that deep-rooted, native, regional and folkloric music, as well as our very appreciated city music, the Tango, are always present, including new styles, always keen on giving our listeners the best of our composers and interpreters.

RAE is well known abroad, but seldom heard of locally, despite being on the air for almost 14 hours daily, from Mondays to Fridays, with programmes in Spanish, English, German, French, Italian, Japanese and Portuguese.

And our audience is truly important judging by the large amount of correspondence we receive and answer in the original aired languages, so much so in fact, that we have been able to establish some truly wonderful everlasting ties, despite the distance.

Our frequencies are also used to air diverse programs hooked directly to Radio Nacional Buenos Aires, thus giving Argentines living abroad the chance to directly listen to breaking news of the National News Panorama from Mondays to Fridays, from 09 to 12 noon UTC and on weekends, besides excellent cultural programmes such as "Las Dos Carátulas", the most important First Division Soccer League matches live.

It is not then overemphasizing when it is said that RAE is an ambassador of friendship without frontiers, the outstretched hand of a country in pursuit of peace and fraternity.

SHORTWAVE IN A MULTIMEDIA WORLD by Kim Elliott, IBB - Audience Research

(This is a summary of a presentation given at the 2003 NASB Annual Meeting)

International broadcasting initially mostly used shortwave because, for the most part, that was the only way to deliver programming to long distances and across international borders. These days, three other major options exist for international broadcasting: release on domestic Medium Wave or FM stations in the target country (FM is usually most listened to, when available), transmissions via satellite, and the Internet.

The domestic radio option serves the urban areas, and receivers for those modes are widely available, making this a very desirable approach. Reliability of program transmission by the relaying

station, and government authorization for such relayed transmissions are some of the major issues of concern. This media approach is very susceptible to being non-available during times of international crisis.

Direct-to-home satellite delivery of international programming faces the difficulty factor that, in many target countries, there are relatively few satellite receivers in the homes of individuals. Commercial and political pressure on transponder owners is also problematic.

Delivery via the Internet, though potentially worldwide in scope, faces the issue of website access blocking by restrictive governments. And in many target countries, computer ownership is limited, and telephone service for Internet access is marginal or nonexistent.

International broadcasters now take a multi-media approach, using each available option where appropriate. However, shortwave remains the mode least likely to be successfully blocked or stymied. So for broadcasts to many countries, shortwave is still the media of choice.

Kim conducted a survey recently on a 24-hour-a-day world-wide program called "VoA News Now" - a mix of news, feature programs, and music. They put announcements on the half hour requesting response, running a total of 76 announcements. Response came in from 109 countries. The breakdown by major categories of medium usage by listeners to this program was as follows: 58.5% shortwave, 16% domestic MW/FM releases, 15% VoA high-power medium wave relays, Internet audio 9.4%, satellite 0.4%. Even those with e-mail access tended to listen mostly by shortwave because of per-minute Internet access charges, and because of bandwidth issues. The U.S. was the only country showing significant use of the Internet to listen to this particular VoA broadcast.



The History of IBRA Radio

IBRA Radio - the Swedish Pentecostal movements radio ministry became a reality in 1955. The ministry has grown over the years and today IBRA broadcasts to 110 countries in 50 languages. In 1949, at the annual Swedish Pentecostal conference, Pastor Lewi Pethrus presented his vision for a Christian radio ministry. At that time, the Swedish government held a monopoly over radio broadcasting in the country and there were no opportunities for the Pentecostals to air their own programs.



On the 29th of July, 1955, IBRA Radio (International Broadcasting Association) aired its first broadcasts from Tangier in North Africa.

Today, more than half the world's population can now listen to the IBRA programs.

Eskil Johansson gives us a glimpse into the past:

WHEN A DOOR CLOSSES

In 1948 something happened which resulted in the Pentecostals being shut out from any broadcasting over Swedish Radio. The reason was that during the radio broadcast of a service from Filadelfia Church in Stockholm, it was mentioned that God had healed a person who had been very ill.

In an earlier program, the person in question had been prayed for and nobody within our Government radio monopoly had reacted in a negative way.

Apparently it was permitted to pray for a sick person, but to then come back and claim that God had answered that prayer was going too far, or so was the opinion of the powers that be.

This incident unleashed a religious debate resulting in the Pentecostals being forbidden to participate anymore on Swedish Radio. And this was in spite of the fact that the next broadcast of the service from Filadelfia Church had already been printed in the radio schedule.

So the entire Pentecostal movement was shut out from any participation in radio broadcasting, in spite of having faithfully paid all taxes and radio license fees. Something had to be done and it was then that the idea of an independent Christian radio station was born.

During his visits to America, Pastor Lewi Pethrus had seen the possibilities of using radio in Christian outreach. So he began to work together with other interested parties on his own radio project.

TEST BROADCASTS

In 1949 Pastor Pethrus went public with his idea that the Swedish Pentecostals should acquire their own radio station. When the Swedish experts found out about the plan, they declared with a smile that the project was impossible and would end in a fiasco. There were times when the obstacles indeed seemed insurmountable, but the confidence that God was in control gave the needed courage to press on.

Pentecostal radio - or IBRA Radio as it came to be known later - began its test broadcasts in 1949 over Radio Luxembourg. Reception, however, was poor in Sweden, and this attempt was soon abandoned. Other ideas had to be tested.

FLOATING TRANSMITTERS



One way to solve the problem was to place broadcasting equipment on a ship anchored in international waters. Thirty kilometers from the shore, there were no restrictions or radio monopolies. The project was technically feasible and work proceeded toward making it a reality.

It was soon discovered, however, that broadcasting from a ship would not provide the desired coverage, because it was impossible to install directional antennas on a boat. It would have also been impossible to build a station out at sea to international standards. IBRA Radio was a missions organization and needed the possibility of expansion so as to reach many countries with its message.

Advantages and disadvantages were weighed against each other and, together with the ship project, other possibilities to broadcast from land were investigated. It was decided that if a land based station could be established, it would take first priority. Events later proved that this was the correct decision. When commercial organizations subsequently installed floating transmitters in international waters, they had to deal with enormous difficulties. They were considered pirate radio stations and on top of the many technical problems they had to solve, they also found themselves at odds with the authorities.

The Scandinavian governments enacted a law which forbade what they referred to as pirate radio broadcasting. The companies who sponsored the broadcasts, as well as those who participated in

the programs, thereby became law breakers. They were all threatened with arrest if they did not immediately shut down their radio broadcasts.

AN OFFER FROM ANDORRA

While IBRA was doing preliminary work on its ship project, an offer came from a radio station in the tiny country of Andorra. The station's owner was willing to work together with IBRA Radio. The offer was so attractive that it was decided to set a date for test broadcasts.

The programs were produced and sent to the station, but they never reached their destination. New tapes were mailed from Stockholm, but they did not arrive at the station either, and nobody knew where they had ended up. Soon it was discovered that certain religious authorities in Andorra had decided to prevent these Protestant broadcasts from being aired. The simplest and most effective way to torpedo this new ministry was to simply use their connections with the post office to make the tapes silently disappear.

The station's owner, Director Jacques Tremoulet, realizing after a while that his battle against this silent power was in vain, informed IBRA Radio as to what had happened. He then said that he also owned a radio station in Tangier, North Africa, where there was full religious freedom. He added that the station in Tangier could be easily expanded so that IBRA Radio would have all the equipment it desired at its disposal.

Was this perhaps the solution to IBRA's problem? Tangier had an optimal geographical location for international missions broadcasting. Eight different nations were responsible for political security in that international free zone. So the location was ideal and the possibilities for this type of missions outreach met all the requirements. The offer was accepted unanimously by IBRA Radio's board of directors.

IBRA RADIO TANGIER

Tangier immediately became a major focus of the news media in all of Scandinavia. The news that the Swedish Pentecostal movement had fled the country with its radio ministry and intended to set it up in North Africa spread like wildfire. Many Swedes looked at their atlases to find out where Tangier was. Yes, this remarkable city was located right there in the northwestern corner of the African continent, where the salty swells of the Atlantic meet the Mediterranean Sea in the Bay of Gibraltar. The population of 150,000 was made up mostly of foreigners who, nevertheless, blended into the colorful surroundings. People from every corner of the world came together in this international atmosphere. Americans, Frenchmen, Spaniards and Germans - to name just a few Westerners - worked side by side with Arabs, Jews and Indians. Besides the three official languages - Arabic, Spanish and French - many other languages and dialects could be heard. It was not unusual to hear the shoe shiners and street vendors offering their services in six to eight different languages, including Swedish.



Three post offices - one French, one British and one Spanish - competed for the international mail and about 50 banks serviced a highly cosmopolitan clientele, doing business with people from all parts of the world.

THE DREAM COMES TRUE

Up until 1948 almost anyone could build a radio station in Tangier, and about ten commercial radio stations quickly sprang up in this radio mecca. When IBRA Radio, however, came to Tangier

in 1955 it was almost impossible to get the needed permission to build a station, but by investing in an existing station - Radio Africa Tangier - IBRA Radio would have 3 short wave transmitters at its full disposal as well as the part time use of a powerful medium wave transmitter. To get to the area where this new station was being built, you had to follow the coast south of Tangier, until you came to the border of the international zone.

There, on the big sand flats, with the ocean waves crashing in with great force, work was begun on the extensive antenna system. The transmitter building was built on the hill right next to Pirate Hill, so named because long ago pirates would light a fire there in order to lure boats closer to the coast where they were then attacked.

Now Pirate Hill was being changed into a Gospel beacon and it was happening quickly. The whole process was quite amazing for the local Arabs who had not yet learned what stress was. Most of the 50 men who were hired to build the station were shepherds, they were accustomed to spending the whole day in peace and quiet out in the fields with their animals as their only companions. Now they had found out that they could earn money as laborers at the new station. It seemed exciting.

There were some very comical moments when these shepherd sons of the desert suddenly exchanged their shepherd's staff for a shovel, a pick and other tools. These forgotten men were to now help the foreign engineers build a radio station by which one would be able to speak to the entire world. The Arabs could not understand how this could happen. They all agreed that Europeans often acted strangely, but to bury a bunch of copper (ground wires) in the sand was the strangest thing they had ever seen.

Our night watchman, Mohammed, thought it was a shame to waste such fine copper. So when darkness fell and everyone had gone home, he spent the night digging up as much of the copper cable as he could and took it home so he could sell it later to the junk dealers in Tangier, who were glad to buy the metal for a good price. After a while we discovered that the grounding system, which was made up of two kilometers of copper cable, was not working. It was no wonder, since the cable that was being buried during the day was being dug up at night. The only thing we could do was to have a watchman watch over the watchman who replaced Mohammed. So we had to start all over again and lay out new ground wires. But despite this and other unexpected events, the station was built in record time and the dedication could be held on schedule.

A DAY OF CELEBRATION

Many of IBRA Radio's friends had gathered on Pirate's Hill for the celebration of that historic dedication. Among the noted guests who had come from afar were Pastor Lewi Pethrus, Director Karl G. Ottosson and Director Jacques Tremoulet, the three enthusiasts who had made this project a reality. Pastor Lewi Pethrus gave an inspiring dedication speech and declared IBRA Radio Tangier was now in operation.

Seven years of intensive preparation had been met with success. The dream of IBRA Radio - the Swedish Pentecostal movement's own independent Christian radio station - had become a reality.

Today the ministry has grown and IBRA Radio broadcasts to 100 countries in 60 languages.

(IBRA Radio, 141 99 Stockholm, Sweden - Internet: <<http://www.ibra.org>> - E-mail: <ibra@ibra.se>)

QSL CAMPAIGN OF ADXB-OE IN COOPERATION WITH RADIO BUDAPEST

The ADXB-OE (the only Austrian DX Club) has arranged together with the German Department of Radio Budapest, that between August and the end of October 2004 listeners can ask for this special QSL-card. The following main conditions are valid:

- reports must be sent to the ADXB-OE, P.O. Box 1000, A-1081 Wien, Austria
- reports of transmissions between August and October 2004 are valid
- every frequency will be verified by maximal one card
- every language section can be used, except the Hungarian one
- for every report must be sent an IRC or US-\$ or equivalent currency (1 EUR for example)
- formal check is made by ADXB-OE
- technical and programme check is made by Radio Budapest
- answer comes directly from Budapest

Even if you don't speak German, you will recognize the languages and frequencies, thus we think it will be easy for you.

This QSL campaign is made for the very good country-relations between Hungary and Austria, and also on the event of the Jubilee 30 Years of AGDX, the German speaking Association for DX-clubs. Further on, there is an EU-project (European Union) of the international QSL-Collection, a QSL-card collection and documentary archive with residence in Austria (head of this organization is Wolf Harranth).

Schedule of MR-Radio Budapest in German until the end of October (times in UTC):

- 873 Saturdays, 0900-1000
- 3975 Sundays, 1700-1800, Mo-Sa 1730-1800 und Mo-Sa 1930-2000
- 6025 Sundays, 1200-1300 und 1400-1500 und 1700-1800, Mo-Sa 1730-1800 und Mo-Sa 1930-2000
- 7160 Sundays, 1400-1500
- 7220 Sundays, 1200-1300

Schedule of MR-Radio Budapest in English until the end of October (times in UTC):

- 3975 daily, 1900-1930
- 6025 Sundays, 1500-1530, daily 1900-1930 und 2100-2130
- 9590 daily, 0100-0130 (N-AM)
- 9715 Sundays, 1500-1530
- 9790 daily, 0230-0300 (N-AM)
- 11720 daily, 1900-1930
- 11830 daily, 2100-2130

Schedule of MR-Radio Budapest in Italian until the end of October (times in UTC):

- 3975 daily, 2030-2100
- 6025 daily, 1630-1700 und 2030-2100
- 9525 daily, 1630-1700

Schedule of MR-Radio Budapest in Spanish until the end of October (times in UTC):

- 3975 daily, 0330-0400
- 6025 daily, 0330-0400 und 2130-2130
- 11830 daily, 2130-2200 (S-AM)

Schedule of MR-Radio Budapest in French until the end of October (times in UTC):

- 3975 daily, 1600-1630
- 6025 daily, 1600-1630 und 2000-2030
- 9585 daily, 2000-2030

Schedule of MR-Radio Budapest in Russian until the end of October (times in UTC):

- 3975 daily, 0300-0330, Sundays 1930-2000
- 6025 daily, 0300-0330, Sundays 1930-2000 und 1530-1600, Mo-Sa 1700-1730
- 9650 Mo-Sa, 1700-1730
- 9740 Sundays, 1530-1600

You will be able to get a maximum of 14 cards (for the 14 different frequencies). If you have any further questions, please write to: ADXB-OE, P.O. Box 1000, A-1081 Wien, Austria (E-Mail: <adxbuess@aon.at>). You may write in German, English, French, Italian or Spanish.

Noch ein Hinweis für unsere deutschsprachigen Mitglieder: Bitte beachten Sie, daß die Sendezeiten von Radio Budapest in DX MAGAZINE 7/2004, Seite 32, vollständig verkehrt waren. Wir haben diese leider ungeprüft von der ADXB-OE übernommen, die ihrerseits aufgrund eines Umrechnungsfehlers diese falschen Sendepläne zusammengestellt hatte. Wir bitten Sie, diesen Fehler zu entschuldigen.

PART A: Five QSL cards in your collection that depict a specific theme.

Search your QSL collection and choose your five best cards that depict a specific theme. You may choose any theme, and it might be, for example, world maps, or flowers, or animals, or birds, or people, or radio equipment, or sunsets, etc. You may send a copy of these five cards in colour, or black & white, or you may describe them. Each card should be from a different station. Your QSL cards may verify a broadcast from a station on shortwave, mediumwave, longwave, FM or utility communication, but not amateur, CB nor TV.

PART B: Another five QSL cards in your collection that depict another specific theme.

Choose five more QSL cards that depict any other theme. Each card should be from a different station, though these cards may be from any of the same stations as in Part A, if desired. You may send a copy of these five cards in colour, or black & white, or you may describe them.

PART C: Write a script for broadcast in our DX program "Wavescan".

You may choose any topic that you consider could be suitable for broadcast in "Wavescan". Your script should be no longer than 800 words, it should be written in English, and it may be handwritten or typed.

PART D: Submit 3 reception reports on any AWR transmissions.

These reports can be on the reception of any AWR broadcasts on any station anywhere in the world. If possible, one of these reports should contain the program details of a broadcast from the AWR transmitter on Guam, KSDA5.

PART E: Where possible, submit 3 radio cards.

These cards may be new or old QSL cards, new or old tourist postcards that show radio in some way. Not valid for this contest are amateur nor CB QSL cards.

Contest awards: The world winner will receive the 2004 engraved Bronze Medallion and an autographed copy of Jerry Berg's highly regarded radio volume, "On the Short Waves". Additional continental winners will receive a copy of their choice of either "Passport to World Band Radio 2005" or "World Radio TV Handbook 2005". Several hundred other awards are available from AWR, including souvenirs, cards and small tourist items. All reception reports will be verified with our AWR QSL cards specifically endorsed for the 2004 DX contest and with the 2004 QSL stamp. As a gesture of good will to the international radio community, Adventist World Radio will make a series of broadcasts specifically from transmitter KSDA5 on the island of Guam. During the past couple of years, all four of the older transmitters at this station were removed and replaced with five newer units obtained from a large shortwave radio station in South Africa. In addition, a new matrix switching unit has also been installed so that the output from any of the five transmitters can now be fed into any of the four curtain antennas. The fifth transmitter is in use as an auxiliary unit to replace any of the others that happen to malfunction. So that international radio monitors, shortwave listeners and DXers can specifically log and QSL unit 5, a special schedule will be implemented for the occasion. Transmitter KSDA5 will be activated with regular programming during the month of September 2004 and the complete schedule will be announced in advance.

QSL cards verifying the reception of these specially arranged broadcasts will be endorsed for transmitter KSDA5.

Things to remember: All entries must be postmarked during the month of September 2004 and received in Indianapolis before the end of October 2004, though in special cases early entries will be accepted. Late entries will not be entered into the contest though the reception reports will be verified. Where possible, please provide a strong, self-addressed business size envelope and please provide return postage, preferably in an acceptable form of international currency, though mint postage stamps or IRCs will also be appreciated. Any person may enter any or all parts of the contest and all entries will be answered. However, because of the large volume of entries, it may take many, many weeks to finally process them all. The major winners in this year's contest will also be announced here in Wavescan in program WS 516 on Sunday, November 21, 2004. **The only address for contest entries is:**

ADVENTIST WORLD RADIO

September DX Contest, Box 29235, Indianapolis, Indiana 46229, USA

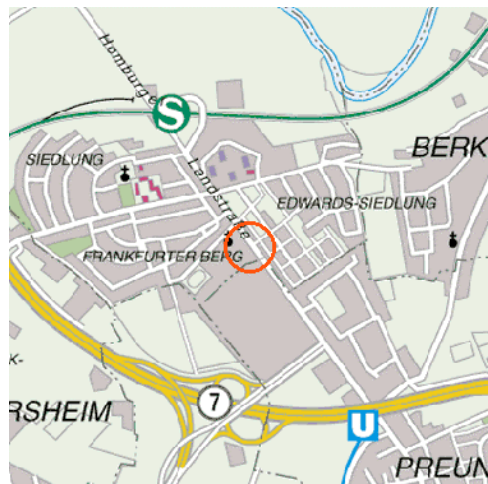




China Radio International



AS-Ffm.-
Kreis = Lage des Lokales



Stadtteil Frankfurter Berg



A 661; S und U-Bahnstationen

Hörertreffen Radio China International China-Informationstag in Frankfurt am Main

am Samstag, 25. September 2004,

offizieller Beginn gegen 14:00 Uhr MESZ

im China-Restaurant „LOTUS“,

Homburger Landstr. 381, D-60433 Frankfurt am Main,

Telefon: 069-9541-6765

Fax: 069-9541-6766

Teilnehmende Gäste von Radio China International:

Herr CHEN, Minyi	Vizeintendant
Herr SUN, Jingli	Leiter der Deutschen Redaktion
Herr GUO, Shizhi	Leiter der Abteilung für Hörerbetreuung
Herr XIN, Liancai	Leiter der Abt. für auswärtige Angelegenheiten
Frau DOU, Xiaowen	CRI-Chefkorrespondentin in Berlin
Frau CHENG, Xiufen	Hörerbetreuung in der Deutschen Redaktion

Die Veranstaltung bietet die besondere Gelegenheit, sich umfassend zugleich über China Radio International (CRI) und die Volksrepublik China aus erster Hand zu informieren.

CRI hofft auf zahlreiche Teilnehmer und freut sich auf den Meinungsaustausch insbesondere mit seinen Hörern. Gäste, die nicht unbedingt Hörer von CRI sind, sich aber für die Volksrepublik China interessieren, sind herzlich willkommen.

Das Lokal „Lotus“ liegt im nördlichen Frankfurt im Stadtteil Frankfurter Berg und bietet Platz für 80 bis etwa 100 Teilnehmer und ist für das CRI-Hörertreffen geöffnet ab 11:30 MESZ bis gegen Mitternacht.

Verkehrsanbindung mit ÖPNV:

Vom Frankfurter Flughafen mit S 8 oder S 9 zum Hauptbahnhof.

Von Frankfurt-Hauptbahnhof mit U 5 bis Endhaltestelle Preungesheim, von dort mit Bus 27 (Richtung Niedereschbach) oder Bus 63 (Richtung Weißer Stein) bis zur Haltestelle Kaiserkroneweg.

Oder mit der S 6 von Frankfurt-Hauptbahnhof in Richtung Friedberg bis zum Ausstieg Frankfurter Berg, weiter mit dem Bus 27 in Richtung Preungesheim bis zur Haltestelle Kaiserkroneweg.

Anfahrt mit dem PKW:

Mit dem Auto von A 3, A 5 oder A 66 kommend über die A 661 bis zur Ausfahrt Berkersheim/Preungesheim, links einordnen, bis zur Ampel auf der Homburger Landstraße vorfahren, an der Ampel links einordnen, dann noch ca. 500 Meter.

Anmeldungen bis spätestens zum **01. September 2004** erbeten an

Siegbert Gerhard, Ebereschenweg 88, 60433 Frankfurt

Telefon: 069-95455-182 (8-16 Uhr)

069-540 01 88 (privat)

Email: siegbert.gerhard@brh.bund.de

Im Mai erschien die 2., vollständig neu bearbeitete Auflage des handlichen Taschenbuchs **"Mit dem Radio unterwegs - Radiohören im Urlaub und auf Reisen"** von Harald Kuhl, der Ratgeber und Begleiter für alle, die auch auf Reisen, im Urlaub oder während eines Auslandsaufenthaltes nicht auf Informationen und Unterhaltung per Radio verzichten wollen. Mit dem Radio unterwegs zeigt Ihnen, wie Sie in Europa oder sonst wo in der Welt Nachrichten aus der Heimat hören können, Fußballreportagen oder unterhaltende Magazinsendungen. Es zeigt Ihnen auch, welche speziellen Touristensendungen in den Urlaubsregionen zu hören sind. Dank detaillierter Sendertabellen müssen Sie nicht mehr lange suchen. Zudem werden die empfehlenswertesten Reiseradios vorgestellt und beurteilt. Besonders wichtig sind die nützlichen Tipps, wie man zum Beispiel den Empfang auch unterwegs oder im Hotel mit einfachen Mitteln verbessern kann.



Das Buch zeigt Ihnen aber auch, wie Sie mit kleinen, kompakten Satelliten-Empfangsanlagen europaweit bequem deutschsprachige TV- und Radioprogramme empfangen können. Ebenso informiert das Buch über die Möglichkeiten, überall auf der Welt per Internet Radioprogramme zu hören.

(128 Seiten, Format 11 x 16 cm, VTH-Best.-Nr. 413 0012, ISBN: 3-88180-612-1, kartoniert, Preis € 6,90)



Neu im Juni erschien der Titel **"Blitz- und Überspannungsschutz für Antennen, Geräte und Anlagen"** von Frank Sichla. Dieses Buch beschreibt dem Praktiker die Ausführung von Blitz- und Überspannungsschutz Schritt für Schritt und nach neusten Vorschriften. Es führt leicht verständlich in die Thematik "Blitz- und Überspannungsschutz" ein und schildert dann ausführlich die Praxis des allgemeinen Gebäudeblitzschutzes, des Blitzschutzes von Antennen sowie des Überspannungsschutzes von Anlagen und Geräten. Ein aktuelleres und kompakteres Buch gibt es derzeit nicht.

Aus dem Inhalt: Mehr von Blitz und Donner ● Direkt-, Nah- und Ferneinschlag ● Überspannungen - die heimliche Gefahr ● Die Normen ● Gebäudeblitzschutz nach VDE 0185 ● Empfangsantennenschutz nach VDE 0855 Teil 1 ● Schutz von Sende- und Sende-/Empfangsantennen nach VDE 0855 Teil 300 ● Überspannungsschutz - das sollte man wissen ● Ableiter- und Anforderungsklassen ● Praktische Schutzmaßnahmen für jedermann ● Schutz von Telekommunikationsanlagen ● Schutz kleiner Computeranlagen ● Schutz von Funkanlagen.

(84 Seiten, Format 16,5 x 23 cm, 62 Abbildungen, Best.-Nr. 411 0105, ISBN: 3-88180-805-1, Broschur, Preis € 9,80)

Neu im Juni erschien der Titel **"HF-Messungen für den Funkamateurl"** von Hans Nussbaum. HF-Messungen sind für den Funkamateurl unentbehrlich. Das Buch beschreibt die wichtigsten - als genaue und besonders preisgünstige Verfahren! Funkamateure und andere an der Hochfrequenz Interessierte erhalten erprobte und preiswerte Vorschläge für den Eigenbau von HF-Generator, Messbrücke und einfachem Messzubehör. Darüber werden Messungen und Untersuchungen an Antennen, Antennentunern und Koaxkabeln, Zweidrahtleitungen, Schwingkreisen und Filtern, aber auch Baluns, Empfängern und einigen Bauteilen beschrieben. Alle Messungen werden Schritt für Schritt erklärt. Der Autor ist seit 20 Jahren Funkamateurl und war jahrelang als Entwicklungsingenieur für HF-Geräte in der Industrie tätig.



Aus dem Inhalt: Eigenbau eines HF-Rechteckgenerators ● Einfache Anpassungsmessung ● Bauanleitung für eine HF-Impedanzmessbrücke ● Adapter und Messzubehör ● Untersuchung von Leitungen ● Messung einer Induktivität ● Abgleich von Rundfunkempfängern ● HF-Übertrager und Symmetrierglieder ● Stummabstimmung eines Antennentuners ● Messungen mit einem Oszilloskop ● Messungen an Kabeln ● Messungen in Antennenanlagen ● SWR Messbrücke ● Wellenwiderstand einer Leitung ● Antennenmessungen ● Bau eines 1:4-Baluns ● Fehlstellenmessung ● Untersuchung von Filtern und Schwingkreisen ● Messung der Spulengüte ● Resonanzfrequenz, Güte und Selektion ● Berechnung der Kabeldämpfung ● Sinusgenerator für 3,3 bis 30 MHz ● KW-Transceiver als Messsender.

(76 Seiten, Format 16,5 x 23 cm, 140 Abbildungen, Best.-Nr. 411 0104, ISBN: 3-88180-804-3, Broschur, kartoniert, Preis € 9,80)

Alle diese Neuerscheinungen sind erhältlich vom vth-Bestellservice, Verlag für Technik und Handwerk GmbH, Postfach 2274, D-76492 Baden-Baden, Tel. 07221-5087-22, Fax 07221-5087-33, eMail <service@vth.de> oder im Buchhandel.

WORLDWIDE DX CLUB

WORLDWIDE DX CLUB, founded in 1966, does not claim to be the biggest or best DX club in the world. Nevertheless, it offers its members and subscribers a rather good monthly bulletin (mainly in English) entitled "DX MAGAZINE" with up-to-date information on most aspects of DX'ing at the reasonable price of € 15.60, £12.00, US\$18.70 or 16 International Reply Coupons (IRC's) per year (air mail: Europe: € 17.40, £13.00, US\$20.90 or 18 IRC's; Overseas: € 20.40, £15.50, US\$24.50 or 21 IRC's).

Since WORLDWIDE DX CLUB is the "International Department" of ARBEITSGEMEINSCHAFT DX (AGDX), the head organization of the German language DX clubs, it is able to offer its members and subscribers another DX publication in German entitled "Radio-Kurier - weltweit hören". This is jointly issued by the German DX organizations ADDX and AGDX and is available for € 40.00, £28.50, US\$48.00 or 40 IRC's per year (including air mail to countries outside Europe) or, if ordered together with "DX MAGAZINE", for € 51.00, £36.00, US\$61.20 or 51 IRC's per year (air mail: Europe: € 52.80, £37.00, US\$63.40 or 53 IRC's; Overseas: € 55.80, £39.00, US\$66.60 or 56 IRC's per year).

Both publications, "DX MAGAZINE" as well as "Radio Kurier - weltweit hören", are also available as PDF files. If you decide to receive this version, a worldwide subscription rate of € 9.00, £7.00, US\$10.80 or 9 IRC's is applicable for "DX MAGAZINE". "Radio Kurier - weltweit hören" is available for € 20.00, £15.50, US\$24.00 or 20 IRC's, both publications together for € 26.00, £20.00, US\$31.20 or 26 IRC's.

WORLDWIDE DX CLUB has currently the following special publications available:

1. "REPORTING GUIDE", published by the EUROPEAN DX COUNCIL (€ 1.00 or 1 IRC; please enclose 1 additional IRC for air mail).
2. "EDXC RADIO COUNTRIES LIST 1998", published by the EUROPEAN DX COUNCIL (€ 3.00 or 3 IRC's; please enclose 1 additional IRC for air mail).
3. "WORLD RADIO TV HANDBOOK 2004", to be published by WRTH Publications Limited in December 2003 (€ 28.00 or US\$33.60; extra for air mail: € 10.20 or US\$12.20).
4. "DAS OHR ZUR WELT" (Eine Einführung in den Rundfunk-Fernempfang, herausgegeben von der ARBEITSGEMEINSCHAFT DX e. V.) (€ 1.00 or 1 IRC; please enclose 1 additional IRC for air mail).
5. "EMPFÄNGER-FIBEL 1995/96" (Ratgeber für den Empfänger-Kauf, herausgegeben von der ARBEITSGEMEINSCHAFT DX e. V.) (€ 2.00 or 2 IRC's; please enclose 1 additional IRC for air mail).

These prices include postage and packing. Delivery against advance payment by International Money Order, cheque in € drawn on a German bank (otherwise please add € 5.00 for bank charges), cheque in US\$ drawn on a US bank, cash in any convertible currency, Postal Money Order or transfer to our postal giro accounts Postbank Frankfurt/Germany No. 289010605 (IBAN: DE49 5001 0060 0289 0106 05 - BIC/SWIFT-Code: PBNKDEFF) or Postbank Leeuwarden/Netherlands No. 3822840. *IRC's can only be accepted from countries, in which payments can not be made by any other means (1 IRC = € 1.00) - not for orders of World Radio TV Handbook.*

Der obige Preis enthält Porto und Verpackung. Lieferung gegen Vorauszahlung durch Überweisung, Scheck in € (gezogen auf eine deutsche Bank, sonst € 5,00 zusätzlich für Bankgebühren), Postanweisung oder Bargeld. Postbankkonten: Frankfurt am Main/BRD Nr. 289010605 [Bankleitzahl 500 100 60] und Leeuwarden/Niederlande Nr. 3822840. *IRC's werden nur aus solchen Ländern akzeptiert, in denen eine Zahlung auf einem anderen Weg nicht möglich ist - nicht für WRTH-Bestellungen..*

For further information on WORLDWIDE DX CLUB please write to: WORLDWIDE DX CLUB, Postfach 12 14, D-61282 Bad Homburg, GERMANY (e-mail: <info@wwdxc.de>), or visit us in the Internet at <<http://www.wwdxc.de>>.