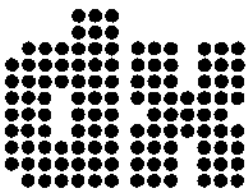


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magazine



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 2005

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DX MAGAZINE No. 10

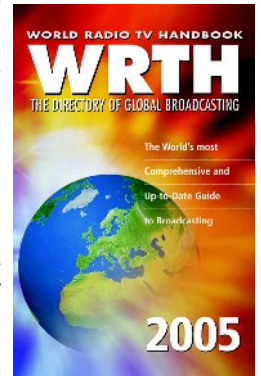
· Vol. XXXIX ·

October 2004

Hello again,

Here we are back again after our usual summer break. I hope that you have enjoyed your summer holidays, if you had any, and that you have had also some time for DX'ing. If so, please do not forget to send your news and loggings to our editors.

On the left please find the prices and conditions for ordering the new **WORLD RADIO TV HANDBOOK 2005**, which will be available in Germany in the beginning or mid of December, according to the German general distributor. In this 59th edition for the year 2005 WRTH Publications Limited have again devoted their resources to the all-important task of obtaining and providing the most up-to-date information on medium wave and shortwave broadcasts and broadcasters available in any publication. Additional features: receiver reviews, propagation predictions and colour maps, articles including "Ancillary Equipment", "Digital Radio Update" and "World Music Radio", television by country and reference information. The book will have 688 pages, including 80 pages in full colour.



Auch in diesem Jahr können Sie das neue **WORLD RADIO TV HANDBOOK 2005** wieder bei uns bestellen. Der Verkaufspreis für unsere Mitglieder beträgt wie im vergangenen Jahr € 28,00 (bei einem Ladenverkaufspreis von € 34,00). Die Preise in anderen Währungen finden Sie auf Seite 2. Das Buch soll laut Ankündigung des deutschen Generalimporteurs wieder Anfang/Mitte Dezember erscheinen und wird dann von uns gleich an die Besteller ausgeliefert werden. Der obige Preis enthält Porto und Verpackung. Lieferung gegen Vorauszahlung durch Überweisung, Verrechnungsscheck (nur innerhalb Deutschlands), Postanweisung oder Bargeld. Postbankkonten: Frankfurt am Main/BRD Nr. 289010605 [Bankleitzahl 500 100 60] und Amhem/Niederlande Nr. 3822840.

Falls Sie bei dieser Gelegenheit gleich Ihren Mitgliedsbeitrag überweisen möchten: Die Mitgliedsbeiträge von 2004 gelten für das kommende Jahr unverändert weiter: RKwwh + DXM = € 51,00, nur DXM = € 15,60, nur RKwwh = € 40,00, RKwwh + DXM als PDF-Datei = € 26,00, nur DXM als PDF-Datei = € 9,00, nur RKwwh als PDF-Datei = € 20,00. Wann Ihr Mitgliedsbeitrag genau ausläuft, können Sie übrigens jeweils auf dem Adressenaufkleber Ihres DX MAGAZINES (oben rechts = letzter bezahlter Monat + Jahr) sehen. Unseren deutschen Mitgliedern legen wir ein Überweisungsformular bei.

Wir haben noch einige Exemplare der Ausgaben von **WORLD RADIO TV HANDBOOK 1991, 1999, 2000, 2001, 2002, 2003** und **2004** anzubieten, die wir an Sammler für je € 5.00 abgeben. Auch von **The Shortwave Guide 2002** und **2003** (Vol. 1 & 2) sind jeweils noch einige Exemplare zum Preis von je € 5.00 erhältlich. In den oben genannten Preisen ist jeweils Porto und Verpackung enthalten. 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.

Da wir noch immer eine große Menge von **Internationalen Antwortscheinen** (IRC's - alte, kleine Version) vorrätig haben, bieten wir diese unseren Mitgliedern für € 1,00 pro Stück inkl. Porto an. Sie können so deutlich günstiger Ihre Briefe nach Übersee verschicken (Einlösewert = € 1,55) oder die Scheine Ihren Briefen an ausländische Sender oder Korrespondenzpartner als Rückporto beilegen (normaler Verkaufspreis

bei der Deutschen Post AG = € 1,80). Die Mindestbestellmenge beträgt 10 Stück. Lieferung gegen Vorauszahlung durch Scheck oder Überweisung auf unser Postbankkonto Frankfurt am Main, Konto Nr. 289010605, BLZ 500 100 60.

Salvador da Bahia, Brazil has been selected as the host venue for **ITU TELECOM AMERICAS 2005**, which is to be held from 3-6 October. Backed by recovering economies and ever-improving investment climates, especially in Brazil, Chile and Mexico, AMERICAS 2005 will provide an exceptional opportunity to make contacts and seal deals in the region's dynamic information and communication technologies (ICT) sector. AMERICAS 2005 will comprise an Exhibition, which will feature the latest technologies that could be deployed in the region, as well as a major pan-Americas Forum. The Forum provides a platform to explore the wide range of growth opportunities that the region offers, as well as to debate critical policy and development issues. The last ITU TELECOM AMERICAS event was held in Rio de Janeiro in 2000. It was inaugurated by then President Cardoso of Brazil, and attended by a host of industry, government and political dignitaries from across the region and around the world. The coastal city of Salvador da Bahia is a key destination for business events and tourism and has a rich cultural heritage. ITU TELECOM AMERICAS will take place at the Bahia Convention Centre, a modern conference and exhibition centre located in the city's financial centre. (ITU)

Edition 18 of the **Australasian Shortwave Guide** is now being assembled, with over 1400 entries, covering the international shortwave transmission period commencing October 31, 2004, and concluding on March 26, 2005, known as the "B04 International Transmission Season". The Guide has been issued twice annually for many years, and is regarded as the most detailed and accurate listing available, 40 pages, handy A5 format, professionally printed, saddle stitched. Full details and ordering information are available by E-Mail from Bob Padula: <bobpadula@mydesk.net.au>. The guide will be available on November 15, 2004.

And with this best wishes and good DX until next month from



## NEWS ABOUT BROADCASTING (+other) STATIONS Dr. Juergen Kubiak · Goltzstr. 19 · D-10781 Berlin · GERMANY

**ALBANIA:** B04 tentative schedule of *Radio Tirana* from Oct 31, 2004, as of 10-Jul-2004. All SHI 100 kW (Shijak/ALBANIA: 41 N 19'53,5" - 19 E 33'8,6"). Address: ALBANIAN RTV, Radio Tirana, External Service, Rruga Ismail Qemali, Tirana, ALBANIA. Fax: +355-4-223650 / 226203. Email: dcico@icc.al.eu.org (Drita Cico).

1=Monday ... 7=Sunday.

FREQ	STRT	STOP	CIRAF	Z	AZI	ANT	DAYS	FDATE	TDATE	LAN	ADM	BRC
6100	2130	-2300	28		350	141	1234567	311004	260305	ALB	ALB	ALR
6115	0000	-0130	8		300	216	1234567	311004	260305	ALB	ALB	ALR
6115	0245	-0300	8		300	216	.234567	311004	260305	ENG	ALB	ALR
6115	0330	-0400	8		300	216	.234567	311004	260305	ENG	ALB	ALR
6115	1945	-2000	27		300	216	123456.	311004	260305	ENG	ALB	ALR
6115	2000	-2030	27		300	216	123456.	311004	260305	FRE	ALB	ALR
6130	1830	-1900	28		350	141	123456.	311004	260305	GER	ALB	ALR
6135	2215	-2230	28		ND	925	123456.	311004	260305	SERB/CROA	ALB	ALR
7110	0730	-1000	28		ND	925	1234567	311004	260305	ALB	ALB	ALR
7130	2230	-2300	27		300	216	123456.	311004	260305	ENG	ALB	ALR
7160	0245	-0300	8		310	146	.234567	311004	260305	ENG	ALB	ALR
7160	0330	-0400	8		310	146	.234567	311004	260305	ENG	ALB	ALR
7185	1830	-1900	28		350	141	123456.	311004	260305	GER	ALB	ALR
7210	1945	-2000	27		310	146	123456.	311004	260305	ENG	ALB	ALR
7210	2000	-2030	27		310	146	123456.	311004	260305	FRE	ALB	ALR

7240 1900-1930 28SW ND 925 123456. 311004 260305 ITA ALB ALR  
 7270 0000-0130 8 310 146 1234567 311004 260305 ALB ALB ALR  
 7295 2130-2300 28 350 141 1234567 311004 260305 ALB ALB ALR  
 (Drita Cico, Albania, ARTV Head of Monitoring Center, BC-DX; July 13, 2004)

**BRAZIL:** 4755 *Radio Educacao Rural*, Campo Grande, MS, Reactivated!!! 0904-0910, September 25, Portuguese. Many ID's: "Bom dia, bom dia Campo Grande, estamos chegando na Radio Educacao Rural....Bom dia Matto Grosso do Sul!!"; "na manha da sabado 25 de setembro muito bom dia.... bom dia Campo Grande...Radio Educacao Rural, Campo Grande, Matto Grosso do Sul"; TC & ID: "5 y 6 na Educacao Rural"; programme (t): "Rancho Caboclo"; other ID: "..nas ondas curtas.. Radio Educacao Rural..."; 44444. The station was off air in last months. (Arnaldo Slaen in CONEXION #283; October 02, 2004)

**CLANDESTINE:** Some interesting *clandestines stations* in time order:

IBC Tamil Radio	Tamil
0000-0100 Daily	7480 NVS 100 kW / 180 deg
Hmong Lao Radio	Laotian
0100-0200 Wed/Fri	9515 TAI 100 kW / 250 deg
World Falun Dafa Radio	Mandarin
0200-0300 Daily	17510 WHR 100 kW / 285 deg
R. Sedoye Payem e Doost	Persian
0230-0315 Tue-Fri/Sun	7460 KCH 500 kW / 116 deg
Sudan Radio Service	English/Arabic/Shona/Nuer/Dinka
0300-0500 Mon-Fri	11665 WOF 300 kW / 140 deg
Arabic Radio	Arabic [for Syria]
0330-0400 Daily	7510 KCH 500 kW / 150 deg
Voice of Liberty	Tigrina/Arabic
0400-0500 Sun	15675 SAM 250 kW / 188 deg
Denge Mezopotamya	Kurdish
0400-1600 Daily	11530 KCH 500 kW / 116 deg
Sudan Radio Service	English/Arabic/Shona/Nuer/Dinka
0500-0600 Mon-Fri	15325 WOF 300 kW / 140 deg
EDC Radio Mustaqbal	Somali
0630-0700 Mon/Tue/Thu	15370 DHA 250 kW / 210 deg
1200-1230 Mon/Tue/Thu	15370 MEY 250 kW / 032 deg
Voice of Tibet	Tibetan/Chinese
1215-1300 Daily	17525 TAC 100 kW / 131 deg
Radio Free Vietnam	Vietnamese:
1230-1300 Mon-Sat	9930 WHR 100 kW / 285 deg
Truth for The World	Mandarin
1230-1300 Sat	11520 TAI 100 kW / 320 deg
Degar Voice	Khmer
1300-1330 Tue/Thu/Sat	7265 TCH 250 kW / 194 deg alt. 7125, 7240, 7250, 7350, 7420
QueHuong Country Radio	Vietnamese:
1330-1400 Mon-Sat	9930 WHR 100 kW / 285 deg
Voice of Khmer-Krom	Khmer
1400-1500 Tue	15660 VLD 250 kW / 230 deg
Voice of Tibet	Tibetan/Chinese
1430-1605 Daily	17540 TAC 200 kW / 131 deg
Dem. Voice of Burma	Burmese
1430-1530 Daily	5910 A-A 200 kW / 132 deg
1430-1530 Daily	17625 MDC 250 kW / 055 deg
Arabic Radio	Arabic [for Syria; see above too]
1500-1530 Daily	7470 SAM 250 kW / 188 deg
1500-1530 Daily	12085 KCH 500 kW / 150 deg
IBC Tamil Radio	Tamil
1500-1600 Daily	7460 NVS 100 kW / 180 deg
World Falun Dafa Radio	Mandarin
1500-1600 Daily	9930 WHR 100 kW / 285 deg
Sudan Radio Service	English/Arabic/Shona/Nuer/Dinka
1500-1800 Mon-Fri	17660 WOF 300 kW / 140 deg
Radio Free Vietnam	Vietnamese:

1600-1700 Tue/Thu 9930 WHR 100 kW / 285 deg  
 SW Radio Africa Shona/Ndebele/English  
 1600-1900 Daily 6145 MEY 100 kW / 005 deg  
 Radio International Persian  
 1630-1700 Daily 13800 KCH 500 kW / 116 deg  
 1700-1715 Tue/Thu/Sat 13800 KCH 500 kW / 116 deg  
 V of Oromo Liberation Oromo  
 1700-1730 Mon/Thu 12120 SAM 250 kW / 188 deg  
 Voice of People English/Shona/Ndebele  
 1700-1755 Daily 7120 MDC 050 kW / 265 deg  
 Voice of Liberty Tigrina/Arabic  
 1700-1800 Wed 12120 SAM 250 kW / 188 deg  
 Dejan Radio Tigrina [\*\*]  
 1700-1800 Sat 12120 SAM 250 kW / 188 deg  
 Radio Sagalee Oromiya Oromo  
 1730-1800 Mon 12120 SAM 250 kW / 188 deg  
 V of Eritrean People Amharic  
 1730-1830 Sun 15595 SKN 250 kW / 125 deg  
 Radio Free Syria Arabic  
 1800-1900 Fri/Sun 13650 JUL 100 kW / 120 deg till Sep. 26  
 1900-2000 Fri/Sun 9495 JUL 100 kW / 120 deg from Oct. 01  
 R. Sedoye Payem e Doost Persian  
 1800-1845 Tue-Fri/Sun 7480 KCH 500 kW / 116 deg  
 Radio Ndeke Luka French/Singo  
 1830-1930 Daily 15470 WOF 250 kW / 152 deg  
 Radio Ecclesia Portuguese [but see below]  
 1900-2000 Daily 7205 MEY 250 kW / 328 deg  
 Voice of Biafra Inter Igbo/English  
 2100-2200 Sat 7380 MEY 250 kW / 335 deg  
 Dem.Voice of Burma Burmese  
 2330-0030 Daily 9435 JUL 100 kW / 080 deg

[\*\*] I think Dejen Radio is silent since several months (was right away deleted from the TDP website), and Rádio Ecclésia is also no longer on SW (was deleted from the Sentech online schedule)? (Bernd, Trutenau, Cumbredx mailing list via DXLD #4-144) (OBSERVER, 2004 Sept 21 via DXLD #4-144)

**COSTA RICA:** *Radio for Peace International* - *RFPI* changes to MP4 on Monday, September 27th. New Internet Radio Format -16 kbps - MP4 streaming audio - optimized for dialup modems. Currently the Webcast is offline while we complete the conversion to the new global standard in streaming media - MP4. Listeners will need to download and install Quicktime 6.5 (free! from Apple) or another suitable MP4 player such as Real One Player. (<http://www.rfpi.org> via GH, 2004 Sept 25 via DXLD #4-147)

**CYPRUS:** The three radio networks of the *Cyprus Broadcasting Corporation* (CyBC) have had their programming interrupted - by an infestation of cats! In one of the most bizarre episodes we've ever seen, fumigation experts have taken over from broadcasters in an effort to rid the studios of more than 100 flea-ridden stray cats that have invaded the building. One even fell through the roof and landed on someone's head. All three networks are currently playing continuous music. Staff have been told there's a possibility the programmes could be suspended for as long as three days. (©RNMN August 24, 2004; via JKB)

**ECUADOR:** Broadcast schedule of Protestant evangelical international broadcaster *Voice of the Andes* - *HCJB*. Mailing Address: HCJB World Radio, Casilla 17-17-691, Quito, Ecuador, Fax: +593-2-2267263. Frequency Manager: Douglas Weber, <dweber@hcjb.org.ec>, Fax +593 2 226 4765. For mailed reports to Australian Site Kununurra, please post to: The Voice of the Great Southland, GPO Box 691, Melbourne 3001, Australia or E-Maail to: Reports to: <english@hcjb.org.au>. Please include one International Reply Coupon to help cover mailing costs. (JKB)

Schedule B04, 31 October 2004 - March 26, 2005:

UTC	UTC Freq.	Power	Ant.	Azi.	Target	Days							
Begin	End	kW	(Degrees)	Region		SMTWTFSS							
ENGLISH							1100	1330	12005	250	330/124	N/S America	1111111
							1100	1330	21455	1	35/225	Eur./S. Pacific	1111111
												GERMAN	(High)

0230 0300 9785 100 324	Mexico	1111111	0830 1030 690 50 000/180	Ecuador	1111111
0700 0730 9765 100 42	Europe	1111111	0830 1200 3220 8 90 (Vert.)	S.America	1111111
0700 0730 21455 1 35/225	Eur./S. Pacific	1111111	0830 1400 6080 8 90 (Vert.)	S.America	1111111
2300 2400 12040 100 150 S.	America	1111111	0930 1100 21455 1 35/225	Eur./S.Pac	1111111
GERMAN (Low)					
0200 0230 9785 100 324	Mexico	1111111	2100 0300 6080 8 90 (Vert.)	S.America	1111111
0730 0800 9765 100 42	Europe	1111111	2130 2400 9745 100 155	S.America	1111111
0730 0800 21455 1 35/225	Eur./S. Pacific	1111111	0000 0300 3220 8 90 (Vert.)	S.America	1111111
2230 2300 12040 100 150	S. America	1111111	SPANISH		
HUARANI					
1030 1100 6050 50 18/172	S. America	1111111	0100 0500 9745 100 325	Mexico	1111111
PORTUGUESE					
0800 0930 9745 100 100	N. Brazil	1111111	1030 0500 690 50 000/180	Ecuador	1111111
0800 0930 21455 1 35/225	Eur./S.Pacific	1111111	1100 1500 6050 50 18/172	S.America	1111111
1530 1800 15295 100 139	Brazil	1111111	1100 1300 11960 100 355	Cuba	1111111
2300 0230 11920 250 126	Brazil	1111111	1100 1500 15140 100 150	S.America	1111111
2300 0230 12020 100 100	Brazil	1111111	1300 1500 11960 100 323	Mexico	1111111
QUICHUA					
0830 1000 6125 100 155 S.	America	1111111	1330 1500 21455 1 35/225	Eur./S. Pacific	1111111
			1900 0500 6050 50 18/172	Ecuador	1111111
			2000 0500 21455 1 35/225	Eur./S. Pacific	1111111
			2100 2300 15140 100 150	S.America	1111111
			2300 0100 11700 100 157/330	N/S America	1111111

Note: HCJB's shortwave broadcast schedule also includes the following programs transmitted from other transmitter site than from Quito:

English						Chhattisgarhi					
0000 0100 15525 100 340	East Asia	1111111	Australia	1415 1430 15405 100 307	South Asia	___1__	Australia				
0100 0230 15560 100 307	South Asia	1111111	Australia	Hmar							
0230 0300 15560 100 307	South Asia	1	Australia	1415 1430 15405 100 307	South Asia	___1__	Australia				
0800 1100 11750 50 120	South Pacific	1111111	Australia	Meetei							
1100 1230 15425 100 307	SE Asia	1111111	Australia	1415 1430 15405 100 307	South Asia	___1__	Australia				
1230 1300 15405 100 307	SE Asia	1111111	Australia	Urdu							
1330 1400 15405 100 307	South Asia	1	Australia	0230 0300 15560 100 307	South Asia	_111111	Australia				
1430 1800 15390 100 307	South Asia	1111111	Australia	1330 1400 15405 100 307	South Asia	_111111	Australia				
2230 2400 15525 100 340	East Asia	1___1	Australia	Former Soviet Union Languages [such as????]							
Bahasa Indonesian						1700 1730 11760 500 62	Central Asia	1111111	U.K.		
1300 1330 15405 100 307	SE Asia	1111111	Australia	Southern Uzbek							
2230 2400 15525 100 340	East Asia	_11111_	Australia	1645 1700 1251 100	Central Asia	11___11	[SITE? ND?]				
Hindi						1645 1700 1251 100	Central Asia	__11__	[SITE? ND?]		
1400 1415 15405 100 307	South Asia	1111111	Australia	Turkmen							
1415 1430 15405 100 307	South Asia	1_____	Australia	1700 1715 1251 100	Central Asia	1111111	[SITE? ND?]				
Punjabi						Arabic					
1415 1430 15405 100 307	South Asia	_1_____	Australia	2100 2230 12025 250 150	N. Africa	1111111	U.K.				
Nepali						Low German					
1415 1430 15405 100 307	South Asia	__1____	Australia	1600 1630 3955 100	Omni West/Central Europe	1111111	Germany				
Malayalam						High German					
1415 1430 15405 100 307	South Asia	__1____	Australia	1630 1700 3955 100	Omni West/Central Europe	1111111	Germany				

(Alokesh Gupta via DXLD #4-150; October 1, 2004)

**GERMANY:** German public broadcaster SWR has announced that it will terminate shortwave relays of its programmes as from 19 October 2004. SWR 3 and SWR Cont.Ra are broadcast on 6030 and 7265 kHz. The decision to stop shortwave distribution is for cost reasons, and also because SWR has introduced satellite and Internet distribution of its programmes. With the closure of these services, more than 50 years of shortwave transmissions from southwest Germany come to an end. In September 1947 an 800 watt shortwave transmitter was taken into service in Muehlacker. On 6030 kHz, still used today, Radio Stuttgart could be received starting in 1949 for 10 hours a day. From 1951 this was increased to a full-time relay. Over the years the transmitter technology and the antenna were constantly improved and optimized. Currently the station uses a horizontal dipole antenna, directional north and south, with a 20 KW transmitter. From 1945 to 1964 both the frequency and the location of the transmitter now on 7265 kHz were changed several times. Since 1964 the transmitter has been located at Rohrdorf (Bodenseesender). The power of the transmitter has increased from 1.5 kW at the beginning to the current 20 KW. Various changes in the antenna also took place over the years, as did the programme carried. At the beginning a programme of the French military government was radiated, later SWF 1, SWF 3 and most recently SWR Cont.Ra. Wolfgang Bueschel adds that the transmitter on 7265 kHz, a Siemens unit made in Vienna, is actually the transmitter that was removed and rebuilt from the former Radio Bremen site (6190 kHz) that operated between 1972-1996. The power of the transmitter was originally 50 kW, but it is operating at the reduced power of 20 kW. The Muehlacker transmitter on 6030 kHz is a relatively new unit, made by RIZ Zagreb-Croatia and installed in 1996. (AS at ©RNMN September 22, 2004; via JKB)

**German Telecom - Relay** stations transmissions, latest schedule B04 period (10/31/2004 - 03/27/2005) version B04all - 5.10.2004 (1=Sun ... 7=Sat):

frq	start	stop	ciraf	azi	type	day	from	to	loc	pow	bro	remarks
6015	1300	1600	27,28	ND	926	123456	311004	270305	JUL	100	DTK	
6015	1200	1459	27W,28S,36	ND	926	7	311004	270305	JUL	100	TDP	
6015	1500	1559	27W,28S,36	ND	926	7	311004	270305	JUL	40	TDP	DRM

5945	0030	0045	41	85	216	1	311004	270305	JUL	100	PAB	
13820	1400	1430	39,40	100	216	7	311004	270305	JUL	100	PAB	
13820	1445	1500	39,40	100	216	17	311004	270305	JUL	100	PAB	
13820	1500	1515	39,40	100	218	1	311004	270305	JUL	100	PAB	
13820	1545	1600	39,40	100	218	1	311004	270305	JUL	100	PAB	
13820	1600	1630	39,40	100	218	1	311004	270305	JUL	100	PAB	
13820	1630	1700	39,40	100	218	7	311004	270305	WER	250	EUR	
5945	2330	0030	41,49	70	211	1234567	311004	270305	JUL	100	DVB	
6120	2100	2200	37NW	230	211	1234567	311004	270305	JUL	100	CBS	
9495	1900	1959	39,40	115	206	16	311004	270305	JUL	100	RMI	
11810	1600	1700	41	105	216	1234567	311004	270305	JUL	100	RMI	
3985	1600	1930	27,28	0	976	167	311004	270305	JUL	40	RMI	DRM
3985	2030	2400	27,28	0	976	167	311004	270305	JUL	40	RMI	DRM
6045	0958	1100	27,28	ND	926	1	311004	270305	JUL	100	EVR	
6045	0958	1100	27,28	ND	926	7	311004	270305	JUL	40	EVR	DRM
6015	1000	1059	27,28	115	206	1	311004	270305	JUL	100	CHW	
9890	1900	1959	28,29	70	218	7	311004	270305	JUL	100	CHW	\$
6015	1630	1700	28,29	70	211	1	311004	270305	JUL	100	BCA	
6015	1130	1159	27,28	ND	930	17	311004	270305	WER	125	EMG	
11840	1200	1230	19-26	20	217	7	311004	270305	NAU	250	EMG	
9815	1600	1630	29,30	60	217	7	311004	270305	WER	250	EMG	
3955	1559	1659	27W,28	ND	976	1234567	311004	270305	JUL	100	HCJ	
17870	1500	1530	48	145	217	23456	311004	270305	JUL	100	AWH	
9480	2200	2300	14,16	230	218	12	311004	270305	JUL	100	AWH	
11840	1830	1859	52,53	160	216	5	311004	270305	JUL	100	RRP	
9820	1700	1759	38,39,48	140	216	1346	311004	270305	JUL	100	SBO	
9820	1630	1659	38,39,48	140	216	36	311004	270305	JUL	100	DTK	
9820	1600	1659	38,39,48	140	216	1	311004	270305	JUL	100	DTK	
7220	1830	1930	47,48	140	216	14	311004	270305	JUL	100	DTK	
5925	1500	1559	27,28	ND	976	7	311004	270305	JUL	100	DTK	
9820	1700	1759	38,39,48	140	217	5	311004	270305	JUL	100	DTK	
12015	1500	1559	47,48	130	217	7	311004	270305	JUL	100	DTK	
7340	2000	2100	37,38	175	141	1234567	311004	270305	JUL	100	IBR	
9660	1730	1759	39S,47E,48	130	216	1234567	311004	270305	JUL	100	IBR	
9610	1900	2015	46NE,SE,NW	190	217	1234567	311004	270305	JUL	100	IBR	
9520	1730	1845	47,48,52	145	217	1234567	311004	270305	JUL	100	IBR	
9495	1600	1629	37,38	175	106	1	311004	270305	JUL	100	UNL	
7145	0100	0129	41	85	216	1	311004	270305	JUL	100	UNL	
6045	1200	1259	27,28	ND	976	1	311004	270305	JUL	100	UNL	
6045	1230	1259	27,28	ND	976	7	311004	270305	JUL	100	UNL	
11840	1800	1829	46,47,48	160	216	1	311004	270305	JUL	100	UNL	
7105	1900	1929	39,40	120	216	1	311004	270305	JUL	100	UNL	
6110	1100	1559	27,28W	ND	926	123456	311004	270305	JUL	100	TOM	
6110	1100	1155	27,28W	ND	926	7	311004	270305	JUL	100	TOM	
6110	1155	1305	27,28W	295	206	7	311004	270305	JUL	100	TOM	
6110	1305	1559	27,28W	290	106	7	311004	270305	JUL	100	TOM	
13810	1400	1459	28,29,39,40	115	217	1234567	311004	270305	JUL	100	TOM	
17580	0557	0813	47,48,52,53	160	216	23456	311004	270305	JUL	100	RTB	
17580	0557	1100	47,48,52,53	160	216	17	311004	270305	JUL	100	RTB	
21565	1057	1231	47,48,52,53	160	216	1234567	311004	270305	JUL	100	RTB	
17570	1527	1803	47,48,52,53	160	216	23456	311004	270305	JUL	100	RTB	
17570	1457	1806	47,48,52,53	160	216	17	311004	270305	JUL	100	RTB	
5945	0730	0945	27,28N	290	106	1	311004	270305	JUL	100	BVB	
5945	0800	0915	27,28N	290	106	7	311004	270305	JUL	100	BVB	
5945	0915	0930	27,28N	290	106	7	251204	251204	JUL	100	BVB	
5945	0815	0845	27,28N	290	106	46	311004	270305	JUL	100	BVB	
6015	1915	1930	28,29	60	141	23456	311004	270305	JUL	100	BVB	
6015	1900	2030	28,29	60	141	1	311004	270305	JUL	100	BVB	
6015	1900	2000	28,29	60	141	7	311004	270305	JUL	100	BVB	
9470	1900	2015	39,40	120	146	16	311004	270305	NAU	250	BVB	
9470	1900	2000	39,40	120	146	57	311004	031104	NAU	250	BVB	
9470	1900	2000	39,40	120	146	7	41104	270305	NAU	250	BVB	
9470	1900	1945	39,40	120	146	5	41104	270305	NAU	250	BVB	
7295	1930	2000	46,47	170	216	1	311004	270305	JUL	100	BVB	
7295	1915	1945	46,47	170	216	6	311004	270305	JUL	100	BVB	
7295	1900	2000	46,47	170	216	7	311004	270305	JUL	100	BVB	
13810	1630	1659	38S,39S,47,48	130	217	1	311004	270305	JUL	100	BVB	
13810	1630	1730	38S,39S,47,48	130	217	234567	311004	270305	JUL	100	BVB	
9730	1800	1859	39,40	110	216	17	311004	270305	JUL	100	BVB	



9730	1800	1829	39,40	110	216	35	311004	270305	JUL	100	BVB
9730	1715	1829	39,40	110	216	246	311004	270305	JUL	100	BVB
17565	0845	1015	38,39	130	217	6	311004	270305	JUL	100	BVB
7220	1945	2015	46	210	216	6	311004	270305	WER	125	BVB
7210	1800	1859	39,40	105	216	17	311004	270305	JUL	100	BVB
9460	1630	1859	39,40	115	217	1	311004	270305	JUL	100	BVB
9460	1640	1715	39,40	115	217	246	311004	270305	JUL	100	BVB
9460	1640	1859	39,40	115	217	3	311004	270305	JUL	100	BVB
9460	1645	1859	39,40	115	217	7	311004	270305	JUL	100	BVB
9460	1640	1745	39,40	115	217	5	311004	270305	JUL	100	BVB
9460	1800	1859	39,40	115	217	46	311004	270305	JUL	100	BVB
12005	1500	1600	40,41	90	217	37	311004	270305	JUL	100	BVB
12005	1530	1600	40,41	90	217	1245	311004	031104	JUL	100	BVB
12005	1530	1600	40,41	90	217	12456	41104	270305	JUL	100	BVB
11830	1500	1700	40,41W	90	217	1234567	311004	270305	WER	250	BVB
13590	1330	1430	41NE	75	217	1234567	311004	270305	WER	250	GFA
13650	1430	1529	41,43,49	75	217	1234567	311004	270305	WER	250	GFA
13590	1530	1629	40,41	90	217	1234567	311004	270305	WER	250	GFA
9495	0030	0130	40,41	90	218	1234567	311004	270305	WER	250	GFA
9765	2330	0030	41,43,49	75	216	1234567	311004	270305	WER	250	GFA
13720	1700	1800	37,38	175	217	1234567	311004	270305	JUL	100	YFR-1
9605	1800	1900	39N,40W	115	206	1234567	311004	270305	JUL	100	YFR
9605	2000	2059	39,40	115	217	1234567	311004	270305	JUL	100	YFR-1
11750	2000	2100	37,38,46,47	190	106	1234567	311004	270305	JUL	100	YFR-2
7285	2300	0400	36	230	218	1234567	311004	270305	JUL	100	HRT
7285	0000	0400	17	300	216	1234567	311004	270305	JUL	100	HRT
7285	0200	0600	17	325	216	1234567	311004	270305	JUL	100	HRT
9470	0500	0800	55,59,60	230	218	1234567	311004	270305	JUL	100	HRT
9470	0600	1000	58,59,60	270	218	1234567	311004	270305	JUL	100	HRT

FMO's (Frequency Managing Organizations)

6140	0600	1000	27,28	175	141	1234567	311004	270305	JUL	100	DWL	
6140	1000	1300	27,28	120	106	1234567	311004	270305	JUL	40	DWL	DRM
6140	1300	1600	27,28	175	141	1234567	311004	270305	JUL	100	DWL	
6140	1600	1900	27,28	ND	976	1234567	311004	270305	JUL	40	DWL	DRM
5965	0557	0756	27,28,37-39	130	216	1234567	311004	270305	JUL	100	DWL	VRT2
5965	0757	0826	27,28	ND	926	1234567	311004	270305	JUL	100	VRT	
5910	1827	1956	27,28,37-39	130	216	1234567	311004	270305	JUL	100	VRT	
5985	1857	2056	27,28	ND	926	7	311004	270305	JUL	100	VRT	
6095	0500	0600	28E	115	216	1234567	311004	270305	JUL	100	AWR	
11730	1000	1100	28W	145	216	1	311004	270305	JUL	100	AWR	
9800	1900	2000	37,38W	200	216	1234567	311004	270305	JUL	100	AWR	
9695	2000	2030	37,38W	200	216	1234567	311004	270305	JUL	100	AWR	
	1127	1200	28,29	105	216	7	311004	270305	JUL	100	TWR	
	1327	1345	28	130	206	1234567	311004	270305	JUL	100	TWR	
	1657	1730	28	105	106	7	311004	270305	JUL	100	TWR	
	1657	1730	28	100	206	7	311004	270305	JUL	100	TWR	
	0557	0615	28,29	100	206	23456	311004	270305	JUL	100	TWR	
	0927	0945	28	100	206	34567	311004	270305	JUL	100	TWR	
	1727	1800	28	105	106	123456	311004	270305	JUL	100	TWR	
	1730	1800	28	105	106	7	311004	270305	JUL	100	TWR	
	0200	0400	39,40	100	216	1234567	311004	270305	JUL	100	VOR	
	1500	1600	39,40	115	217	1234567	311004	270305	JUL	100	VOR	
	2000	2200	39,40	110	216	1234567	311004	270305	JUL	100	VOR	
	2000	2200	39,40	105	216	1234567	311004	270305	JUL	100	VOR	
	2100	2200	39,40	115	216	1234567	311004	270305	JUL	100	VOR	
	2300	2400	39,40	100	216	1234567	311004	270305	JUL	100	VOR	
11885	1500	1559	29	75	216	1234567	311004	270305	JUL	100	IBB	
9505	1600	1700	29,30	70	218	1234567	311004	270305	JUL	100	IBB	
12110	1700	1759	40	100	217	1234567	311004	270305	JUL	100	IBB	
9495	1800	1859	40	100	217	1234567	311004	270305	JUL	100	IBB	
9840	1800	1859	30,40	80	218	1234567	311004	270305	JUL	100	IBB	
9600	1900	2000	39N	100	217	1234567	311004	270305	JUL	100	IBB	
9680	1900	2000	40	100	218	1234567	311004	270305	JUL	100	IBB	
9670	0100	0300	42,43	75	217	1234567	311004	270305	WER	500	IBB	

\* changes

+ active on demand

# momentary not active

\$ every 14 days

BVB Bible Voice Broadcasting	PAB Pan Am Broadcasting
BCA Bible Christian Association	RMI Radio Miami International
CBS Radio Taiwan international	RNW Radio Netherlands World Service
CHW Christliche Wissenschaft	RRP Radio Reveil Paroles de Vie
DTK Deutsche Telekom	RTB Radio Television Belge de la communaute Francaise
DVB Democratic Voice of Burma	SBO Sagalee Bilisummaa Oromoo
DWL Deutsche Welle	TDP Transmitter Documentation Project
EMG Evangelische Missions Gemeinden in Deutschland	TOM The Overcomer Broadcast
EVR Evangeliums Radio Hamburg	TWR Trans World Radio
GFA Gospel For Asia	UNL Universelles Leben
HRT Hrvraska Radio Televizija	VOR Voice of Russia
IBB International Broadcast Bureau	VRT Vlaamse Radio en Televisie (ex RVI)
IBR IBRA Radio Sweden	YFR WYFR Family Radio

(Weyl - T-Systems Regional MediaBroadcast Cologne via WWDXC-HQ; October 06, 2004)

**GUAM (USA) :** Schedule B04 of *KTWR Trans World Radio*, Guam (October 31, 2004 - March 27, 2005).

Freq (KHz)	Time UTC Open-Close	Call Sign	Pwr (kW)	Azm (deg)	Target CIRAF	Days (Mon-Sun)	Language
=====	=====	=====	=====	=====	=====	=====	=====
7455	1100-1615	KTWR	100	320	42,43,44	1234567	Mandarin
9415	1400-1600	KTWR	100	305	42,43,44	1234567	Mandarin
9465	1215-1300	KTWR	100	345	45	1234567	Japanese
9585	1330-1400	KTWR	100	285	49	1234567	Sgaw Karen
9635	1100-1200	KTWR	100	285	49	1234567	Vietnamese
9865	0930-1100	KTWR	100	315	42,43,44	1234567	Mandarin
9910	0930-1100	KTWR	100	320	42,43,44	1234567	Mandarin
9920	1400-1445	KTWR	100	278	49	1234567	Vietnamese
9920	1445-1615	KTWR	100	345	44,45	1234567	Korean
9975	1200-1300	KTWR	100	285	49	1234567	Burmese
9975	1300-1330	KTWR	100	315	42,43,44	1234567	Mix-Chinese
9975	1330-1400	KTWR	100	285	42,43,44	1234567	Mandarin
9975	1400-1500	KTWR	100	285	43,44	1234567	Cantonese
11690	2115-2200	KTWR	100	345	45	1234567	Japanese
11695	1300-1330	KTWR	100	278	49	1234567	Khmer
11840	0815-0930	KTWR	100	165	51,55,56,58,59,60	12345	English
11840	0815-0930	KTWR	100	165	51,55,56,58,59,60	67	English
11895	1200-1230	KTWR	100	293	43,44	1234567	Swatow
12080	1330-1400	KTWR	100	293	41,49	1234567	Indian
12105	1500-1630	KTWR	100	278	41,48,49	1234567	English
12130	2200-2245	KTWR	100	315	42,43,44	1234567	Mandarin
12130	0900-0930	KTWR	100	285	43,44	1234567	Hakka
12130	0930-1600	KTWR	100	305	42,43,44	1234567	Mandarin
13630	2245-2330	KTWR	100	315	42,43,44	1234567	Mandarin
13690	2300-2330	KTWR	100	305	42,43,44	1234567	Mandarin
13715	2230-2300	KTWR	100	285	49	1234567	Vietnamese
13765	2300-2400	KTWR	100	293	43,44	1234567	Cantonese
15200	0900-0915	KTWR	100	248	54	12 567	Balinese
15200	0900-0915	KTWR	100	248	54	34	Torajanese
15200	0915-1000	KTWR	100	248	54	1234567	Madurese
15200	1000-1030	KTWR	100	248	54	1234567	Sundanese
15200	1100-1200	KTWR	100	248	54	1234567	Indonesian
15225	0740-0900	KTWR	100	263	49,50,54	12345	English
15225	0730-0900	KTWR	100	263	49,50,54	67	English
15275	1100-1200	KTWR	100	255	49,54	1234567	Javanese
15330	0930-1100	KTWR	100	255	54	1234567	Indonesian

(Jeff LeCureux - Freq Co-ordinator KTWR-Guam via Alokesh Gupta via WWDXC-HQ; October 06, 2004)

**HUNGARY:** *Radio Budapest* new B04 schedule.

English to Eu	1600-1628 Sun	6025	9580
	2000-2028 Daily	3975	6025# RSO 150 kW / 290 deg
	2200-2228 Daily	6025#	RSO 150 kW / 290 deg
English to SoAf	2200-2228 Daily	12010	

English to NoAm	0200-0228	Daily	9775	
	0330-0358	Daily	9775	
German to Eu	1300-1358	Sun	6025	12010
	1500-1558	Sun	6025	9735
	1800-1858	Sun	3975	6025# RSO 150 kW / 290 deg
	1830-1858	Mon-Sat	3975	6025# RSO 150 kW / 290 deg
	2030-2058	Mon-Sat	3975	6025# RSO 150 kW / 290 deg
French to Eu	1700-1728	Daily	3975	6025# RSO 150 kW / 275 deg
	2100-2128	Daily	6025	9710
Hungarian to Eu	0500-1158	Sun	6025	
	0500-1658	Mon-Sat	6025	
	1200-1258	Sun	6025	
	1400-1458	Sun	6025	
	1900-1958	Daily	3975	6025
	2300-2358	Daily	6025	
Hungarian to NoAm	0100-0158	Daily	9870	
	0230-0328	Daily	9775	
	2200-2258	Daily	9825	
Hungarian to SoAf	2000-2058	Daily	11785	
Hungarian to SoAm	2300-2358	Daily	12010	
	0000-0058	Mon	12010	
Hungarian to AUS	1200-1258	Daily	21560	
	1900-1958	Daily	11675#	RSO 250 kW / 090 deg
Italian to Eu	1730-1758	Daily	3975	6025# RSO 150 kW / 230 deg
	2130-2158	Daily	3975	6025
Russian to Eu	0400-0428	Daily	3975	6025# RSO 150 kW / 050 deg
	1630-1658	Sun	3975	6025
	1800-1828	Mon-Sat	3975	6025# RSO 150 kW / 050 deg
	2030-2058	Sun	3975	6025# RSO 250 kW / 050 deg
Spanish to Eu&SoAm	0430-0458	Daily	3975	6025# RSO 150 kW / 245 deg
	2230-2258	Daily	6025	7160# RSO 150 kW / 245 deg

# via RSO=Rimavska Sobota, Slovakia

(I. Ivanov & A. Datzinov in OBSERVER #332, via WB, 2004 Oct 8)

**INDONESIA:** Public broadcaster's national radio networks available on line BBC Monitoring observes public broadcaster Radio Republik Indonesia's six national radio networks available streamed live on line from its web site at <<http://www.rri-online.com>>. As well as streams of domestic Programmes 1 to 6, an audio stream labelled "SLN" is also available, presumably their Voice of Indonesia multilingual external service. However, this could not be confirmed as when BBC Monitoring checked on 11 September the stream was found to be silent. The web site has pages in Indonesian, Arabic, English, French, German, Japanese, Korean, Mandarin and Thai. The homepage links for the Arabic and Mandarin pages are inactive and can only be accessed by going to one of the other language pages and editing the URL. Following the Japanese occupation and the granting of independence from the Netherlands, Radio Republik Indonesia (RRI) was established on 11 September 1945. Initially owned and operated by the Indonesian government, it became a public corporation in 2000. In addition to the six national radio networks and the external service, RRI operates a chain of regional and local stations broadcasting on shortwave, mediumwave and FM frequencies. (BBC Monitoring research 11 Sep 04 via AS at ©RNMN September 11, 2004; via JKB)

**ITALY:** In 1987, a small group of idealistic and highly dedicated people with broadcasting experience of their own had the idea of starting a shortwave radio station to act as a link between independent cultural program makers and the European Audience. The short wave medium had been recognized for years as the most effective means of reaching the largest number of Europeans by radio and for the high quality of its audience. "The Italian Radio Relay Service" went on-the-air in November, 1988 and was an immediate success. The founders of NEXUS-IBA used their own funds to finance the necessary equipment, and initially used the facility in their spare time on Saturdays and Sundays to broadcast their own programming consisting of music, discussion programs, topical presentations, vintage radio shows, and plays. Soon afterwards, *IRRS-Shortwave* began airing the current affairs and cultural programs of leading international, intergovernmental agencies and special program services produced by other broadcasters.

The much older NEXUS FM station in Milan signed off on September 15, 1998 after serving the English speaking community in Milano for almost twenty years, since 1979. NEXUS-IBA is, however, strictly non-denominational and open to membership of all faiths. With its seat in Milan, NEXUS is a non-profit association founded under Italian Law. According to the Italian Broadcasting Act of 1990, The Association is designated as a "non-profit community broadcaster operating in the public interest". On shortwave, NEXUS-IBA operates one SIEMENS transmitter of extremely high quality and reliability. It is rated at 10 kW output and is fully automatic. Although capable of standard AM (double side-band) transmission, NEXUS-IBA has chosen to operate with the much more effective and efficient "A3A" modulation, i.e. Single Side-Band, reduced carrier mode, as recommended by the International Telecommunication Union. In this way, our signal has the same communication power as a conventional AM transmitter of 30 kW, while remaining completely compatible with non-SSB receivers. Careful frequency management and the use of digital audio processing techniques assure a signal strength and subsequent high station profile all over Europe and the Mediterranean area. B04 schedule for IRRS-Shortwave, effective 31 October, 2004 - 27 March, 2005. IRRS-Shortwave transmitter is located at Milano, Italy 09° 11' East and 45° 27' North. Transmission Mode is A3A = USB -6 dB reduced carrier AM compatible in the target area, use USB or sync detector for DX reception outside target area. A3 = conventional Double Side Band (DSB) AM. Address: IRRS-Shortwave, PO BOX 10980, I-20110 Milano, Italy. Fax: +39-02-70638151 and email: info@nexus.org

kHz	UTC	Day	ITU Zones	PWR / Mode	Az.	Language
13840	0800-1300	Sat & Sun	18-19, 27-30, 37-39	20 kW A3	nd	English, German, Italian
5775	2000-2130	daily (*)	18-19, 27-30, 37-39	20 kW A3*	nd	English, German, Italian
5775	2000-2200	Friday	18-19, 27-30, 37-39	100 kW A3**	nd	English, German, Italian
15665	1100-1200	Friday	27-30, 37-38, 46	100 kW A3**	115	Spanish, Arabic

A3 = conventional Double Side Band (DSB) AM

(\*) On Fridays 100 kW.

(\*\*) Occasionally extended on Fridays until 2300 UTC with 100 kW.

(IRRS schedule at the web last update on 7 Aug., 2004; via JKB)

**LIBYA:** Libyan Jamahiriya Broadcasting *LJB - Voice of Africa* B04 schedule [sorry but no tx location and language given, Ed.]. Address: Libyan Jamahiriya Broadcasting, P.O.Box 4677, Soug al Jama, Tripoli, Libia. For reception reports: Libyan Jamahiriya Broadcasting, P.O.Box 17, Hamrun, Malta. E-mail: <africavoice@hotmail.com>.

1000-1100 on 21695

1100-1230 on 17695, 21485, 21675, 21695

1230-1400 on 21675, 21695

1400-1500 on 21675

1600-1700 on 15220, 17840

1700-1800 on 15220, 15615, 15660

1800-1900 on 9485, 11635, 11715

1900-2030 on 11635, 11715

2030-2130 on 11635 (OBSERVER #280, via WB & Alokesh Gupta; 2004 Oct 1)

**LUXEMBOURG:** *Broadcasting Center Europe - BCE* operates of several high power radio- and TV-transmitters in the Grand-Duchy of Luxembourg, covering large parts of Europe. BCE has a unique expertise in transmission planning, consulting and operation. Among the transmitters operated by BCE, we can find the high-power AM transmitters in Beidweiler and Junglinster, the broadcasting center in Marnach, FM transmitters in Hosingen as well as in Dudelange. Therefore, BCE is able to offer broadcasting solutions for Radio & TV programs towards in numerous European countries. Currently, BCE broadcasts the radio programs of RTL Radio Lëtzebuerg (first radio station in Luxembourg with a market share of 75%), RTL Radio France (leader of the French radio sector), RTL Radio-Die besten Hits mit Gefühl, 100,7 Radio Socio Culturelle (from Luxembourg), as well as various private programs. One priority of BCE is to be active in the development of new terrestrial transmission technologies [BCE has started DRM activities on shortwave, Ed.]. To get a QSL-Card please submit the SINPO-Code, some details of your audition, and your name and adress on-line at web:

<<http://www.bce.lu/transmission/lwsw/report/>>.

Transmitter History:

	LW power	MW power	SW power	FM power	
1932	150 kW				Construction of the station and start of LW transmissions with a CHIREIX transmitter

1939			6 kW		Start of SW transmissions
1951	250 kW				LW power increment
1952		150 kW			Start of MW transmissions
1953			50 kW		Installation of a second SW transmitter
1954	500 kW				Installation of a second LW transmitter
1954					Two towers of the actual LW aerial are constructed
1955		0			Transfer of the MW transmitter to Marnach
1959				12 kW	Installation of an FM transmitter on 92.5 MHz
1959					The actual LW aerial is finished with a third tower
1960	750 kW				Installation of a third LW transmitter
1964	1100 kW				Dismantling of the first LW transmitter (from 1932) and installation of a new 600 kW LW transmitter
1970			250 kW		Installation of a TELEFUNKEN SW transmitter and disconnect of the old 6 and 50 kW transmitters (kept as standby)
1971			500 kW		Installation of a second TELEFUNKEN transmitter
1971				0	Transfer of FM 92.5 transmitter to Hosingen
1973			500 + 50		Reoperation of the old 50 kW SW transmitter (switched off in 1970) on 15350 kHz
1976			500 + 10		Disconnect of the old 50 kW transmitter (kept as standby) and installation of a new 10 kW SW transmitter
1983					Modification of the LW aerial. All towers are shortened from 250 m to 217 m
1987	1200				Dismantling of the second LW transmitter (from 1954) and installation of a new 600 kW THOMSON LW transmitter

(www.bce.lu via JKB, 8 Oct 2004)

**MALDIVES:** The test transmission from the new Maldives "independent" station, *Minivan Radio*, seemed to go ahead as planned, although the modulation at the start of the broadcast was poor. This had little to do with the transmitter power (100 kW), but an annoying hum on the audio. The broadcast obviously plays fun on the government radio station, Voice of the Maldives, copying its interval signal. BBC Monitoring says that direction finding placed the transmitter at 42 minutes 36 seconds North, 23 minutes 12 seconds East, which is very close to the co-ordinates of a transmitter site called Kostinbrod, near the town of Pernik, a few kilometers south west of Sofia in Bulgaria. Minivan has yet to confirm that they will continue with their broadcasts. (Jonathan Marks at ©RNMN August 18, 2004; via JKB)

In a phone conversation with a spokesperson for the Friends of Maldives, it seems that there was indeed a confusion between Watts and kilowatts. FM broadcasts on the islands themselves would be impossible, so they have now issued an official press release stating that Minivan Radio will make a test broadcast on Wednesday 18 August 2004 at 2130-2230 (Maldives local time, the same as 1630-1730 UTC) on 11525 kHz. The first half hour of the programme will be using a power of 100 kW and the second half hour will be on 250 kW. The station wants reception reports from the South Asia region to indicate whether the higher power is needed. E-mails should be sent to <admin@friendsofmaldives.co.uk> or phone messages to +44 1722 504 330 or via snail mail to 64 Milford Street, Salisbury, SP1 2BP UK. The organization, FOM, says it is not primarily a political organization, but it has concerns about the level of democracy on the islands at the moment. There are only a few hundred Maldivians living in the UK, so the group relies on a global base of friends. Depending on the success of the test transmission, presented by Ahmed Naseer, the organization will decide whether to hire more airtime from World Radio Network. Internet access from the islands seem to have resumed, although there are claims from islanders that some news sites are being blocked. SMS messages from islanders to the mainland have also been interrupted. (AS at ©RNMN August 17, 2004; via JKB)

We've just had word from the UK that the new station broadcasting to the Maldives, Radio Minivan, will start daily broadcasts on Wednesday 25th August at 1600-1700 UTC on 13855 kHz from the Juelich transmitter site in Germany. Further information about the station

will be available shortly at the following URL: <<http://www.friendsofmaldives.co.uk>>  
(©RNMN August 23, 2004; via JKB)

UK-based dissident group Friends of Maldives says that the Maldivian Internet provider, Dhiraagu (<<http://www.dhiraagu.com.mv>>) has blocked all Maldivian computers from accessing the Friends of Maldives website. As with all forms of media, Dhiraagu is majority-owned by the state, and has a monopoly on Internet access. It is part owned by Cable and Wireless, who took over telecommunications on the archipelago in 1977. Friends of Maldives says that press freedom watchdog Reporters Without Borders has written to Cable and Wireless to raise concerns over the involvement of the firm with the Maldivian telecommunications company, which has banned dissident websites such as Maldives Culture, Dhivehi Observer and the Maldives Royal Family websites. (AS at ©RNMN September 06, 2004; via JKB)

Frequency change for Minivan Radio in Dhivehi from Sep. 24: 1600-1700 NF 12015 (55544) JUL 100 kW / 105 deg, ex 13855 to avoid VOR in Russian "Commonwealth" on 13850 and CRI in Russian on 13860. (OBSERVER, 2004 Sept 27 via DXLD #4-148)

### **MARIANAS ISLANDS (USA):** *KFBS Saipan* B04 program schedule.

Time(UTC)	Freq	Language
0800-0830	15580	Banjar (Indonesian dialect)
0800-1400	11580	Mandarin (Chinese)
0830-1130	15580	Indonesian
0900-1100	11650	Russian
1100-1130	11650	Mongolian Chi & Mongolian Halh
1130-1200	15580	Sasak (Indonesian dialect)
1130-1330	11650	Russian
1230-1300	11680	Gorontalo (Indonesian dialect)
1300-1400	12120	Vietnamese
1330-1345	11650	Udmurt/Tatar/Mari/Uzbek/Kazakh
1345-1400	11650	Udmurt/Tatar/Chuvash/Ossetic/Kirghiz
1400-1430	12120	Vietnamese/Koho/Ede/Hmong
1400-1530	9465	Russian
1530-1545	9465	Russian/Ukrainian/German
1545-1600	9465	Russian/Ukrainian
2230-2330	12090	Vietnamese

(David L. Creel - Acting Dir. FEBA via Alokesh Gupta via WDXC-HQ; October 05, 2004)

**MISCELLANEOUS:** *Digital Radio Mondiale* (DRM) will introduce its latest consumer products, including the Digital World Traveller – the world's first DRM-capable USB receiver – in a press conference at IBC on Saturday, 11 September, 2004. The Digital World Traveller is made by DRM Member Coding Technologies. The press conference will feature DRM Chairman Peter Senger (COO, Deutsche Welle), who received the EBU Lifetime Achievement Award for Services to International Broadcasting at the IBC Conference last year. Also featured will be DRM Vice Chairman Jan Hoek (Acting Director General, Radio Netherlands), Coding Technologies' Stefan Meltzer and other DRM Members. "There's a lot to see and hear at the DRM booth this year," says Peter Senger. "We are thrilled to offer IBC attendees more consumer products than ever before, software devices, new data services, and a record number of live DRM broadcasts." IBC attendees can listen to live DRM broadcasts on DRM-capable consumer and software products at the DRM booth this year. DRM Member VT Communications will offer complimentary DRM Mobile Reception Tours in a specially-fitted car during IBC. Featured in the vehicle will be the DRM 2010 Receiver Car Kit by DRM Supporter AFG Engineering GmbH. (AS at ©RNMN September 06, 2004; via JKB)

Excellent *CIRAF maps* are available at:

<<http://www.itu.int/ITU-R/terrestrial/broadcast/hf/refdata/maps/index.html>>

(Olle Alm via BC-DX #683, 2004 Sept 1)

and also on this website:

<<http://www.monitoringtimes.com/html/mtciraf.html>> (WB at BC-DX #683, 2004 Sept 1)

Raimo Makela's list of *tropical band stations*. In each line you will find: frequency (kHz), station, location and country.

120 meter band  
2310.0 ABC Northern Territory Service, Alice

| Springs, Australia  
2325.0 ABC Northern Territory Service, Tennant

- Creek, Australia  
 2340.0 Fujian People's Broadcasting Station, Fuzhou, China  
 2348.8 KCBS, Sariwon, North Korea (v)  
 2380.0 Radio Educadora, Limeira, Brazil  
 2390.0 XEJN Radio Huayacocotla, Mexico  
 2390.0 WWCR, United States of America  
 2410.0 Radio Enga, Papua New Guinea (off air?)  
 2460.0 Radio Alvorada, Rio Branco, Brazil  
 2470.0 Radio Cacique, Sorocoba, Brazil  
 2485.0 ABC Northern Territory Service, Katherine, Australia  
 2490.2 Radio Oito de Setembro, Brazil (v)  
 2500.0 BPM Time Signal Station, China  
 2500.0 WWVH Time Signal Station, Hawaii  
 2500.0 WWV Time Signal Station, United States of America
- 90 meter band  
 3200.0 Trans World Radio, Swaziland  
 3205.0 Radio Ribeirao Preto, Brazil  
 3205.0 Radio West Sepik, Radio Sandaun, Papua New Guinea  
 3210.0 Radio Exterior Espana, Costa Rica  
 3210.0 WWCR, United States of America  
 3214.9 RRI Manado, Indonesia (v)  
 3215.0 Adventist World Radio, Madagascar  
 3215.0 South Africa Amateur Radio League, South Africa  
 3215.0 WWCR, United States of America  
 3220.0 HCJB, Ecuador  
 3220.0 Hamgyong Broadcasting Station, Hamhung, North-Korea  
 3220.0 Radio Morobe, Papua New Guinea  
 3223.0 All India Radio, Shimla, India  
 3230.0 Radio Nepal, Nepal (v)  
 3230.0 Family Radio / World Beacon, South-Africa  
 3230.2 Radio El Sol de Los Andes, Juliaca, Peru (v)  
 3234.8 Radio Luz y Sonido, Huánoco, Peru (v)  
 3235.0 Radio Clube de Marilia, Brazil  
 3235.0 Radio West New Britain, Papua New Guinea  
 3240.0 Trans World Radio, Swaziland  
 3245.0 Radio Clube, Varginha, Brazil  
 3245.0 All India Radio, Lucknow, India  
 3245.0 Radio Gulf, Papua New Guinea (off air?)  
 3249.8 Radio Luz y Vida, Honduras (v)  
 3250.0 Pyongyang Broadcasting Station, North-Korea  
 3255.0 Radiodifusora 6 de Agosto, Xapuri, Brazil  
 3255.0 BBC, Meyerton, South Africa  
 3259.0 NHK, Kasuga, Japan  
 3260.0 La Voix du Sahel, Niger  
 3260.0 Radio Madang, Papua New Guinea  
 3264.7 RRI Gorontalo, Indonesia (v)  
 3270.0 Namibian Broadcasting Corporation, Namibia  
 3270.0 WWFV, McCaysville, United States of America  
 3275.0 Radio Southern Highlands, Papua New Guinea  
 3279.5 La Voz del Napo, Tena, Ecuador (v)  
 3280.0 Voice of Pujiang, Shanghai, China  
 3280.0 Radio Veritas, Meyerton, South-Africa  
 3287.5 Radio Madagascar, Madagascar (v)  
 3289.8 Radio Centro, Ambato, Ecuador (v)  
 3290.0 Central People's Broadcasting Station, China  
 3290.0 Namibian Broadcasting Corporation, Namibia  
 3290.9 Radio Central, Papua New Guinea  
 3291.0 Voice of Guyana, Georgetown, Guyana  
 3300.0 Radio Cultural, Guatemala, Guatemala  
 3305.0 Radio Western, Papua New Guinea - off air?  
 3306.0 Zimbabwe Broadcasting Corporation, Zimbabwe  
 3310.0 Radio Mosoj Chaski, Cochabamba, Bolivia  
 3315.0 All India Radio, Bhopal, India  
 3315.0 Radio Manus, Papua New Guinea  
 3316.0 Sierra Leone Broadcasting Service, Sierra Leone  
 3320.0 Pyongyang Broadcasting Station, North-Korea  
 3320.0 Radio Sonder Grense, South-Africa  
 3324.8 Radio Maya, Barillas, Guatemala (v)  
 3325.0 Radio Mundial, Sao Paulo, Brazil  
 3325.0 RRI Palangkaraya, Indonesia  
 3325.0 Radio North Salomons, Bougainville, Papua New Guinea
- 3326.0 Federal Radio Corporation of Nigeria, Lagos, Nigeria  
 3329.5 Radio Ondas del Huallaga, Huanuco, Peru (v)  
 3330.0 CHU Time Signal Station, Canada  
 3335.0 Radio East Sepik, Papua New Guinea  
 3335.0 Broadcasting Corporation of China, Taipei, Taiwan  
 3344.8 RRI Ternate, Indonesia (v)  
 3345.0 Channel Africa, Meyerton, South-Africa  
 3350.0 South Pyongyang Broadcasting Station, North-Korea  
 3355.0 Radio Nacional de Angola, Angola  
 3355.0 Radio Simbu, Papua New Guinea  
 3360.0 La Voz del Upano, Macas, Ecuador  
 3360.0 La Voz de Nahualá, Guatemala (v)  
 3365.0 Radio Cultura, Araraquara, Brazil  
 3365.0 All India Radio, Delhi, India  
 3365.0 Radio Milne Bay, Papua New Guinea  
 3366.0 Ghana Broadcasting Corporation, Ghana  
 3370.0 Radio Tezulutlan, Guatemala (v)  
 3373.5 NHK, Mihara, Japan  
 3373.5 NHK2, Osaka, Japan  
 3375.0 Radio Nacional de Angola, Angola (v)  
 3375.0 Radio Clube, Dourados, Brazil (v)  
 3375.0 Radio Educadora, Guaraja Mirim, Brazil  
 3375.0 Radio Nacional, Cachoeira, Brazil  
 3375.0 Radio Western Highlands, Papua New Guinea  
 3375.1 Radio San Antonio, Atalaya, Peru (v)  
 3380.0 Radio Chortis, Guatemala  
 3380.0 Radio Malawi, Malawi  
 3384.9 Radio East New Britain, Papua New Guinea  
 3385.0 RRI Kupang, Indonesia (v)  
 3390.2 Radioemisora Camargo, Camargo, Bolivia (v)  
 3390.0 All India Radio, Gangtok, India  
 3390.0 BBC Meyerton, South-Africa  
 3395.0 Radio Eastern Highlands, Papua New Guinea  
 3396.0 Zimbabwe Broadcasting Corporation, Zimbabwe  
 3396.4 Radio Internacional del Peru, San Pablo, Peru (v)
- 75 meter band  
 3900.0 Hulun Ber People's Broadcasting Station, China  
 3900.0 Voice of the Strait, Fuzhou, China  
 3904.9 Radio New Ireland, Papua New Guinea (v)  
 3904.9 RRI Merauke, Indonesia (v)  
 3915.0 BBC World Service, Singapore  
 3920.0 North Pyongyang Broadcasting Station, North-Korea  
 3922.0 Radio Samorodinka, Russia  
 3925.0 Radio Tampa, Japan  
 3930.0 Korean Broadcasting System, Korea  
 3935.0 Radio Reading Svc (ZLXA), Levin, New Zealand  
 3940.0 Hubei People's Broadcasting Station, China  
 3940.0 North Hamgyong Broadcasting Station, North-Korea  
 3945.0 Radio Tampa, Japan  
 3945.0 Radio Vanuatu, Vanuatu  
 3950.0 Xinjiang People's Broadcasting Station, China  
 3955.0 Radio Korea via United Kingdom  
 3955.0 Radio Taipei via United Kingdom  
 3960.0 Chacong Provincial Broadcasting Station, North-Korea  
 3960.4 RRI Palu, Indonesia (v)  
 3965.0 Radio France International, France  
 3970.0 NHK, Japan  
 3970.0 Kangwong Broadcasting Station, North-Korea (v)  
 3970.0 Federal Radio Corporation of Nigeria, Enugu, Nigeria  
 3970.0 Radio Korea via United Kingdom  
 3975.0 Voice of Islamic republic of Iran, Iran  
 3975.0 Radio Budapest, Hungary  
 3976.0 RRI Pontianak, Indonesia (v)  
 3981.0 North Hamgyong Broadcasting Station, North-Korea (v)  
 3985.0 China National Radio, China  
 3985.0 IRRS, Italy  
 3990.0 Xinjiang People's Broadcasting Station, China  
 3995.0 Deutsche Welle, Germany

- 4000.0 Nei Menggu People's Broadcasting Station, China
- 4000.5 RRI Kendari, Indonesia (v)
- 4005.0 Vatican Radio, Vatican City  
60 meter band
- 4750.0 Hulun Ber People's Broadcasting Station, China
- 4750.0 Xizang People's Broadcasting Station, China
- 4750.1 Radio San Francisco Solano, Peru (v)
- 4753.0 RRI Makassar, Indonesia (v)
- 4755.0 Radio Educacao Rural, Brazil
- 4760.0 All India Radio, Leh, India
- 4760.0 All India Radio, Port Blair, Andaman & Nicobar Islands
- 4760.0 Radio ELWA, Liberia
- 4760.0 Trans World Radio, Swaziland
- 4760.0 Radio Free Europe via Tajikistan
- 4763.6 Radio Chincheros, Chincheros, Peru (v)
- 4765.0 Radio Rural, Santarem, Brazil
- 4765.0 Radio Integracao, Cruzeiro do Sul, Brazil
- 4765.0 Radio Congo, Congo
- 4770.0 Federal Radio Corporation of Nigeria, Kaduna, Nigeria
- 4773.0 Radio Centinela del Sur (CDS), Loja, Ecuador (v)
- 4774.9 Radio Tarma, Peru (v)
- 4775.0 Radio Amarela, Rolim do Moura, Brazil
- 4775.0 Radio Congonhas, Congonhas, Brazil
- 4775.0 Radio Portal do Amazonia, Cuaiba, Brazil
- 4775.0 Radio Liberal, Belém, Brazil (v)
- 4775.0 All India Radio, Imphal, India
- 4775.0 Trans World Radio, Swaziland
- 4777.0 Radiodiffusion Gabonaise, Libreville, Gabon (v)
- 4779.8 Radio Coátan, Guatemala
- 4780.0 Emissora Provincial Kuando-Kubango, Angola
- 4780.0 Emisora Onda Musical, Dominican Republic (v)
- 4780.0 Radio Satellite, Santa Cruz, Peru (v)
- 4781.0 Radio Oriental, Tena, Ecuador (v)
- 4783.2 RTM Bamako, Mali (v)
- 4785.0 Radio Brasil, Campinas, Brazil
- 4785.0 Radio Caiari, Porto Velho, Brazil
- 4785.0 Nei Menggu People's Broadcasting Station, China
- 4785.6 Radio Super, Ibagué, Colombia (v)
- 4789.0 RRI Fak-Fak, Indonesia (v)
- 4790.0 Radio Pakistan, Pakistan
- 4790.0 Radio Atlántida, Iquitos, Peru (v)
- 4795.0 Radio Difusora, Aquidauana, Brazil
- 4795.0 Buryat Radio, Ulan-Ude, Russia
- 4795.2 Radio La Voz de Los Caras, Ecuador (v)
- 4796.5 Radio Mallku, Uyuni, Bolivia (v)
- 4799.8 Radio Buenas Nuevas, Guatemala (v)
- 4800.0 China National Radio, China
- 4800.0 Radio Rebelde, Cuba
- 4800.0 All India Radio, Hyderabad, India
- 4800.0 Lesotho National Broadcasting Service, Lesotho
- 4800.7 Radio Armonia, Argentina
- 4805.0 Radio Difusora Amazonas, Manaus, Brazil
- 4805.0 Radio Itatiaia, Belo Horizonte, Brazil
- 4810.0 Voice of Armenia, Yerevan, Armenia
- 4810.0 XERTA, Mexico City, Mexico
- 4814.6 Radio El Buen Pastor, Saraguro, Ecuador (v)
- 4814.9 Radio Difusora, Londrina, Brazil
- 4815.0 Radio Television Burkina, Burkina Faso
- 4815.0 China Radio International, China
- 4819.1 La Voz Evangélica, Tegucigalpa, Honduras (v)
- 4820.0 Emissora Provincial da Huila, Angola
- 4820.0 Radio Botswana, Botswana
- 4820.0 Khanty-Manslysk Radio, Russia
- 4820.0 All India Radio, Kolkata, India
- 4824.3 La Voz de la Selva, Iquitos, Peru (v)
- 4824.9 Radio Cancao Nova, Cachoeira Paulista, Brazil
- 4824.9 Radio Mam, Guatemala (v)
- 4825.0 Radio Ecucadora, Braganca, Brazil
- 4825.0 Radio Rossii, Yakutsk, Russia
- 4826.4 Radio Sicuani, Sicuani, Peru (v)
- 4828.0 Zimbabwe Broadcasting Corporation, Zimbabwe
- 4830.0 Hua-yi Broadcasting Corporation, Fuzhou, China
- 4830.0 All India Radio, Jammu, India
- 4830.0 Radio Litoral, Le Ceiba, Honduras
- 4830.0 Mongol Radio, Mongolia
- 4830.0 Radio Táchira, San Cristobal, Venezuela
- 4831.5 Radio Reloj, Costa Rica (v)
- 4835.0 ABC Northern Territory Service, Alice Springs, Australia
- 4835.3 Radio Tezulutlan, Guatemala (v)
- 4836.0 Radio Buenaventura, Buenaventura, Colombia (v)
- 4840.0 Heilongjiang People's Broadcasting Station, China
- 4840.0 Radio Interoceanica, Santa Rosa de Quijos, Ecuador (v)
- 4840.0 All India Radio, Mumbai, India
- 4840.0 Radio Andahuaylas, Peru (v)
- 4844.6 Radio K'ekchi, Guatemala (v)
- 4845.0 Radio Ibitinga, Brazil
- 4845.0 ORTM, Noakchott, Mauretanie
- 4845.2 Radio Cultura do Amazonas, Manaus, Brazil
- 4850.0 China National Radio, China
- 4850.0 All India Radio, Kohima, India
- 4850.0 Uzbek Radio, Uzbekistan
- 4855.0 Radio Tropical, Barra do Garças, Brazil
- 4856.4 Radio La Hora, Cusco, Peru (v)
- 4860.0 All India Radio, Delhi, India
- 4865.0 Radio Centenario La Nueva, Bolivia (v)
- 4865.0 Radio Alvorada, Londrina, Brazil
- 4865.0 Radio Missoes da Amazonia, Obidos, Brazil
- 4865.0 Radio Verdes Florestas, Cruzeiro do Sul, Brazil (v)
- 4865.0 Gansu People's Broadcasting Station, Lanzhou, China
- 4865.0 La Voz de Cinaruco, Arauca, Colombia (v)
- 4869.9 RRI Wamena, Indonesia (v)
- 4870.0 ORTB Cotonou, Benin (v)
- 4870.0 Radio La Voz de Upano, Macas, Ecuador
- 4870.0 XERTA, Mexico
- 4870.0 SLBC, Ekala, Sri Lanka
- 4874.6 RRI Sorong, Indonesia (v)
- 4875.0 Radio La Cruz del Sur, La Paz, Bolivia (v)
- 4875.0 Super Radio, Roraima, Brazil
- 4875.0 Radio Khara, Georgia
- 4876.0 Radio Samorodinka, Russia (v)
- 4879.8 Radio Nacional Espejo, Quito, Ecuador (v)
- 4880.0 All India Radio, Lucknow, India
- 4880.0 Radio Africa, South-Africa
- 4881.0 Radio Comas, Comas, Peru (v)
- 4883.0 China Radio International, China
- 4885.0 Radio Clube do Pará, Belém, Brazil
- 4885.0 Radio Difusora Acreana, Rio Branco, Brazil
- 4885.0 Radio Ondas del Meta, Villavivencio, Colombia
- 4885.0 Kenya Broadcasting Corporation, Kenya
- 4886.0 Radio Virgen del Carmen, Peru (v)
- 4890.0 Radio France Internationale, Moyabi, Gabon
- 4890.0 National Broadcasting Commission, Papua New Guinea
- 4890.4 Radio Chota, Chota, Peru (v)
- 4895.0 Radio IPB AM, Campo Grande, Brazil
- 4895.0 La Voz del Río Arauca, Colombia
- 4895.0 Colombia Estereo, Santa Fe, Colombia
- 4895.0 All India Radio, Kurseong, India
- 4895.0 Radio Malaysia, Sarawak, Malaysia
- 4895.0 Radio Ulanbaatar, Mongolia
- 4895.0 Radio Chanchamayo, La Merced, Peru (v)
- 4895.0 Tyumen Radio, Russia
- 4988.0 Radio La Voz de Saquisili, Ecuador (v)
- 4900.0 Voice of the Strait, China
- 4902.0 Radio San Miguel, Riberalta, Bolivia (v)
- 4904.9 Radio La Oroya, La Oroya, Peru (v)
- 4905.0 Radio Anhanguera, Araguaina, Brazil
- 4905.0 Radio Relógio, Rio de Janeiro, Brazil
- 4905.3 Radio Ecos del Orinoco, Puerto Carreno, Colombia (v)
- 4907.0 National Radio of Cambodia, Phnom Penh, Cambodia
- 4910.0 ABC Northern Territory Service, Tennant



- Creek, Australia
- 4910.0 All India Radio, Jaipur, India
- 4910.0 Zambia National Broadcasting Corporation, Zambia
- 4910.6 La Voz de la Mosquitia, Puerto Lempira, Honduras (v)
- 4914.5 Radio Cora, Lima, Peru (v)
- 4915.0 Radio CBN Anhanguera, Goiania, Brazil (v)
- 4915.0 Radio Difusora, Macapa, Brazil
- 4915.0 Radio Armonias del Caquetá, Florencia, Colombia
- 4915.0 Ghana Broadcasting Corporation, Ghana
- 4919.0 Radio Quito, Ecuador (v)
- 4920.0 Xizang People's Broadcasting Station, Lhasa, China
- 4920.0 All India Radio, Chennai, India
- 4924.9 Radio Difusora, Taubaté, Brazil
- 4925.0 Honghe People's Broadcasting Station, China (v)
- 4925.0 RRI Jambi, Indonesia
- 4926.0 Radio Nacional, Bata, Equatorial Guinea
- 4930.0 Radio Costena, San Pedro Sula, Honduras
- 4930.0 Turkmen Radio, Turkmenistan
- 4935.0 Radio Capixaba, Brazil
- 4935.0 Radio Difusora, Jatai, Brazil
- 4935.0 Radio Tropical, Tarapoto, Peru (v)
- 4939.9 Radio Amazonas, Venezuela (v)
- 4940.0 China Hua-yi Broadcasting Corporation, Fuzhou, China
- 4940.0 All India Radio, Guwahati, India
- 4940.0 Radio San Antonio, Villa Atalaya, Peru (v)
- 4940.0 Voice of Russia via Tajikistan
- 4940.0 SLBC, Ekala, Sri Lanka
- 4945.0 Radio Emissora Rural, Petrolina, Brazil (v)
- 4945.0 Radio Difusora, Pocos de Caldas, Brazil
- 4945.0 Radio Progreso, Porto Velho, Brazil (v)
- 4949.9 Radio Baha'i, Otavalo, Ecuador (v)
- 4950.0 Radio Nacional de Angola, Angola (v)
- 4950.0 Voice of Pujiang, Shanghai, China
- 4950.0 All India Radio, Srinagar, India
- 4950.0 VOA, Sao Tome
- 4950.1 Radio Madre de Dios, Peru (v)
- 4955.0 Radio Clube, Rondonopolis, Brazil
- 4955.0 Radio Cultura, Campos, Brazil (v)
- 4955.0 Radio Nacional, Bogota, Colombia
- 4955.4 Radio Cultural Amauta, Huanta, Peru (v)
- 4960.0 All India Radio, Ranchi, India
- 4960.0 Papua New Guinea
- 4960.0 Radio Vanuatu, Vanuatu
- 4960.0 VOA, Sao Tome
- 4960.1 Radio Federacion, Sucua, Ecuador
- 4960.2 Radio Villa, Santo Domingo, Dominican Republic (v)
- 4960.3 Radio HRET, Puerto Lempira, Honduras
- 4965.0 Radio Alvorada, Parintins, Brazil
- 4965.0 Voice of Russia via Tajikistan
- 4965.0 Christian Voice, Zambia
- 4970.0 Xinjiang People's Broadcasting Station, China
- 4970.0 Radio Rumbos, Villa de Cura, Colombia
- 4970.0 All India Radio, Shillong, India
- 4970.0 Radio Imagen, Tarapoto, Peru (v)
- 4974.8 Radio del Pacifico, Lima, Peru (v)
- 4975.0 Radio Mundial, São Paulo, Brazil
- 4975.0 Fujian People's Broadcasting Station, Fuzhou, China
- 4975.0 Radio Ondas del Orteguzza, Colombia
- 4975.0 Voice of Russia via Tajikistan
- 4976.0 Radio Uganda, Kampala, Uganda
- 4985.0 Radio Brasil Central, Goiania, Brazil
- 4990.0 Hunan People's Broadcasting Station, China
- 4990.0 All India Radio, Itanagar, India
- 4990.9 Radio Apintie, Paramaribo, Surinam (v)
- 4995.0 Radio Free Europe via Tajikistan
- 4996.0 RWM Time Signal Station, Russia
- 5000.0 LOL1 Time Signal Station, Argentina
- 5000.0 EBC, Time Signal Stations, Espana
- 5000.0 BPM Time Signal Station, China
- 5000.0 HLA Time Signal Station, Korea
- 5000.0 BSF Time Signal Station, Taiwan
- 5000.0 WWV Time Signal Station, United States of America
- 5000.0 WWVH Time Signal Station, United States of America, Hawaii
- 5000.0 ULW 4 Time Signal Station, Uzbekistan
- 5000.0 YVTO Time Signal Observatorio, Cagigal, Venezuela
- 5003.0 Radio Nacional, Equatorial Guinea (v)
- 5005.0 RTM Kuching, Sibul, Malaysia
- 5009.5 Radio Madagascar, Madagascar (v)
- 5009.9 HIMI Radio Cristal Internacional, Dominican Republic (v)
- 5010.0 Central People's Broadcasting Station, China
- 5010.0 HRMI Radio Misiones Internacional, Honduras (v)
- 5010.0 All India Radio, Thiru'puram, India
- 5011.3 Escuelas Radiofónicas Populares, Riobamba, Ecuador (v)
- 5014.0 Radio Altura, Cerro de Pasco, Peru (v)
- 5015.0 Emissora Provincial do Namibe, Angola
- 5015.0 Radio Brasil Tropical, Cuiaba, Brazil (v)
- 5015.0 Radio Copacabana, Brazil
- 5015.0 Radio Pioneira, Teresina, Brazil (v)
- 5015.0 Turkmen Radio, Turkmenistan
- 5019.8 Radio Horizonte, Chahapoyas, Peru (v)
- 5019.9 Ecos del Atrato, Quibdó, Colombia
- 5020.0 Jiangxi People's Broadcasting Station, China
- 5020.0 ORTN Niamey, Niamey, Niger (v)
- 5020.0 SIBC Honiara, Solomon Islands (v)
- 5025.0 ABC Northern Territory Service, Katherine, Australia
- 5025.0 ORTB Parakou, Benin (v)
- 5025.0 Radio FM Vale do Xingu, Altamira, Brazil
- 5025.0 Radio Rebelde, Cuba
- 5025.0 Radio Quillabamba, Peru (v)
- 5025.0 Radio Tashkent, Uzbekistan
- 5026.0 Radio Uganda, Kampala, Uganda
- 5029.0 University Network, Costa Rica (v)
- 5030.0 Radio Los Andes, Huamachuco, Peru (v)
- 5030.0 Radio Burkina, Burkina Faso
- 5030.0 China National Radio, China
- 5030.0 RTM Sarawak, Malaysia
- 5030.0 Radio Tonga, Tonga
- 5035.0 Radio Aparecida, Brazil (v)
- 5035.0 Radio Educacao Rural, Coari, Brazil (v)
- 5035.0 RTV Centrafricaine, Bangui, Central African Republic (v)
- 5035.0 Radio Tashkent, Uzbekistan
- 5035.0 Voice of Vietnam, Hmong, Vietnam (v)
- 5039.2 Radio Libertad, Junin, Peru (v)
- 5039.9 RRI Pekanbaru, Indonesia (v)
- 5040.0 Fujian People's Broadcasting Station, China
- 5040.0 La Voz de Yopal, Colombia
- 5040.0 Radio La Voz del Upano, Macas, Ecuador
- 5040.0 Georgian Radio, Dusheti, Georgia
- 5040.0 All India Radio, Jeypore, India
- 5040.6 Radio Myanmar, Myanmar (v)
- 5040.0 Radio Tashkent, Uzbekistan
- 5043.0 Emissora Provincial de Benguela, Angola
- 5045.0 Radio Cultura do Para, Belem, Brazil
- 5046.2 Radio Intergración, Peru (v)
- 5046.6 Radiodiffusion Togolaise, Lomé, Togo (v)
- 5049.9 ARDS, Humpty Doo, Australia (v)
- 5050.0 Guangxi Foreign Broadcasting Station, China
- 5050.0 The Voice of the Strait, China
- 5050.0 All India Radio, Aizawl, India
- 5050.0 Radio Tanzania, Dar-es-Salaam, Tanzania
- 5050.0 WWRB, McCaysville, United States of America
- 5053.6 Radio Acobamba, Acobamba, Peru (v)
- 5054.6 Radio Faro del Caribe, Costa Rica (v)
- 5055.0 Radio Jornal A Critica, Manaus, Brazil (v)
- 5055.0 Radio Difusora, Caceres, Brazil
- 5055.0 RFO Cayenne, French Guyana (v)
- 5060.0 Xinjiang People's Broadcasting Station, Urumqi, China
- 5060.0 Radio Progreso, Loja, Ecuador (v)
- 5060.0 Radio Tashkent, Uzbekistan
- 5066.0 Radio CANDIP, Congo D.R.
- 5067.0 Ondas del Suroriente, Quillabamba, Peru (v)

5070.0 WWCN, Nashville, United States of America  
 5075.0 Voice of Pujiang, China  
 5076.8 CARACOL, Columbia  
 5084.6 Radio Mundo, Cusco, Peru (v)

5085.0 WWRB, McCaysville, United States of America  
 5090.0 Central People's Broadcasting Station, China

v = variable frequency

(Raimo Makela's Tropical Radio Stations' on the web, last updated: 23 May 2004 (v52), via JKB)

**MONACO:** After 44 years of operations, *Trans World Radio* (TWR) plans to close its offices and studios in Monte Carlo, Monaco, at the end of 2004. TWR personnel and program production are being moved into the receiving areas, further implementing a TWR policy that began with the fall of the Iron Curtain in the early 1990s. Tremendous spiritual blessings have flowed across the European region from Monte Carlo, which for almost 30 years was the hub of TWR's ministry in the European Region. For many locked behind the Iron Curtain, the Gospel broadcasts from Monte Carlo were a lifeline of encouragement and hope. "It was God's will for TWR to be there and He has blessed!" says Werner Kroemer, TWR International Director for the European Region. The fall of Communism ushered in a big change for the Monte Carlo operations. At that time, Eastern European program production -- which was centered in Monte Carlo -- was transferred into the newly free countries. National partnerships were established in the region, and these Partners took the responsibility for program production and listener follow-up. Today, of TWR Europe's 29 Partners, 13 are located in former Communist countries. Another change, which has affected Monte Carlo's ministry, is the changing media situation in Europe. When TWR Monte Carlo was established in 1960, most broadcasting in Europe was controlled by national governments. Today, government restrictions have been lifted in most countries, and commercial stations are popping up all across Europe. This has opened up many more broadcasting outlets for Trans World Radio programs. In order to deal with these new opportunities in an effective manner, infrastructural departments (Finance, Engineering, etc.) were transferred from Monte Carlo to other European sites in the 1990s. The closing of TWR's Monte Carlo office will have no impact on TWR's broadcast activities via the facilities of Monte Carlo Radiodiffusion (MCR). TWR will continue to air programs via shortwave, medium wave, long wave, and over FM transmitters from MCR sites. In summing up Trans World Radio's move from Monte Carlo, Werner Kroemer states: "Monte Carlo has had a wonderful part in our history, and we honor that. But we feel that God is leading TWR in the European Region on to new visions and new locations. We want to follow His leading." Other offices of TWR's European region are located in Austria, Germany, the Netherlands, Switzerland, and Slovakia. Programs are aired in around 50 languages to Europe, Russia, Ukraine, Belarus, Central Asia, North Africa, and the Middle East on local FM stations, nationwide and regional networks, far-reaching transmitters, and via satellite.

Information Request, c/o Trans World Radio Europe, Communications Dept, P.O. Box 12, 820 02 Bratislava 22. (TWR-E News Release, 24 May 2004, via HJB 7.10.2004)

**NETHERLANDS:** *Bonaire relay station* is back in full operation following the disruption because of Hurricane Ivan. All transmissions are back according to the regular schedule. (AS at ©RNMN September 10, 2004; via JKB)

The Netherlands Radiocommunications Agency has granted a special license to a group of radio amateurs who worked at the *coastal station Scheveningen* Radio. The license commemorates the 100th anniversary of the setting up of Scheveningen Radio PCH, which takes place on 14 December 2004. A special event station will operate using the call sign PC100H. More details nearer the date. (AS at ©RNMN September 02, 2004; via JKB)

**NEW ZEALAND:** *Radio New Zealand* has signed a contract with Thales for a new digital capable (DRM) short-wave transmitter for its international broadcaster Radio New Zealand International (RNZI). The new 100 kW short-wave transmitter will be operational in early 2006. RNZI's current analogue short-wave tx (also from Thales) is nearing the end of its scorable life. The new Thales tx will work alongside it and then replace it completely as RNZI's transmission mode into the Pacific. Radio New Zealand Chief Executive and Editor in Chief Peter Cavanagh says the decision to purchase from Thales recognizes the very significant contribution the company has made towards the DRM system. "They have the largest number of txs in sce carrying a DRM signal and they offer an excellent product". The contract follows an annt earlier this year by the New Zealand Govt about a funding

boost for RNZI to move to digital short-wave technology. RNZI Manager Linden Clark says DRM offers an ideal solution for a service like RNZI. "The new tx will transmit a digital (DRM) signal for rebroadcast across the Pacific on our 14 Pacific partner radio stations. The current analogue tx will continue to deliver an analogue short-wave signal to individual Pacific listeners." "Thales is proud to have been selected by RNZ to execute this exciting new project, which is an important milestone in the history of DRM," says Willi Tschol, Managing Director of the Thales Radio Broadcasting Activities. "I will be following the progress personally, and wish to thank the management of RNZ for their trust in our company and in the future of DRM." RNZI is New Zealand's international broadcaster, on air 24 hours a day with a sce to the Pacific which reaches from Papua New Guinea in the west to French Polynesia in the east and covers all the Pacific region in-between. While broadcasting mainly in English, RNZI also carries nx in Pacific langs, making it one of the most listened to, and respected, stations in the Pacific. The sce was set up in 1990 with one analogue short-wave tx. Peter Cavanagh says "the new tx secures the future of what has become a vitally important sce for the people of the Pacific region. Radio New Zealand International plays a significant part in increasing an understanding and awareness of New Zealand's role in the Pacific". (Linden Clark - Manager RNZ, via Barry Hartley via BC-DX #684, 2004 Sep 28)

**SEYCHELLES: FEBA (The Far East Broadcasting Association) B04 schedule, 31 October 2004 to 27 March 2005.**

Time UTC	Days	Languages	Freq	Site				
					1600-1615	....t.. MALAY		7340 IRK
						PAKISTAN, AFGHANISTAN, IRAN		
					0200-0215	.m...fs URDU Pakistan		9450 NVS
					0215-0230	.m...fs PUNJABI Pakistan		9450 NVS
					0200-0230	s.t.... PUNJABI Pakistan		9450 NVS
					0200-0230	...wt.. URDU Pakistan		9450 NVS
					0230-0245	s..... URDU Pakistan		9450 NVS
					0230-0245	....t.. POTHWARI		9450 NVS
					0230-0245	.mtw.fs HINDKO		9450 NVS
					0200-0215	s..... SINDHI		5985 DHA
					0200-0215	.mtwtf. SIRAIKI		5985 DHA
					0215-0230	s..wtf. BALUCHI		5985 DHA
					0230-0245	smtwtf. PASHTO		5985 DHA
					0200-0215	smtwtf. PASHTO	7370+9860	SAM
					0215-0245	smtwtf. DARI	7370+9860	SAM
					0245-0300	smtwtf. HAZARAGI	7370+9860	SAM
					0630-0800	....f. PERSIAN		9660 DHA
					1630-1730	smtwtf. PERSIAN		9840 MSK
					1730-1745	s..... BALUCHI		9840 MSK
					1730-1745	.mtw... TURKMEN		9840 MSK
					1730-1745	....t.. AZERI		9840 MSK
					1730-1745	....f. LURI		9840 MSK
					1400-1415	smtwtf. ENGLISH - Spotlight		9445 NVS
					1415-1500	sm..tf. URDU Pakistan		9445 NVS
					1415-1515	.tw..s URDU Pakistan		9445 NVS
					1500-1515	sm..tf. BALTI		9445 NVS
					1530-1600	smtwtf. PASHTO		7460 ARM
					1600-1630	smtwtf. DARI		7460 ARM
					1630-1645	smtwtf. HAZARAGI		7460 ARM
					1645-1700	smtwtf. UZBEK		7460 ARM
						MIDDLE EAST		
					0400-0500	smtwt.. ARABIC		15525 SAM
					0400-0530	....fs ARABIC		15525 SAM
					0500-0530	....f. SINHALA		6125 DHA
					0530-0630	....f. MALAYALAM		6125 DHA
					1903-2030	smtwtf. ARABIC		9550 KIG
						AFRICA, ETHIOPIA, SUDAN		
					1515-1530	smtwtf. NUER		12125 MEY
					1530-1545	smtwtf. DINKA		12125 MEY
					1545-1600	smtwtf. MAKONDE		12125 MEY
					1600-1630	s...tfs AMHARIC		12125 MEY
					1600-1630	.mtw... GURAGENA		12125 MEY
					1630-1700	smtwtf. AMHARIC		12125 MEY
					1700-1730	smtwtf. OROMO		6180 DHA
					1633-1700	smtwtf. AMHARIC		9885 KIG
					1700-1730	smtwtf. SOMALI		9885 KIG
					1730-1757	smtwtf. TIGRINYA		9885 KIG
					1830-1900	smtwtf. FRENCH (Cent+West Af)		15125 ASC
					2145-2215	....tf. HASSINYA/PULAAR (Waf)		11985 ASC
						Day 1 = Sunday (ITU Convention)		
						Transmitter Site Codes:		
						ARM Armavir Russia		
						ASC Ascension Island		

DHA Dhabayya  
 ERV Yerevan Armenia  
 IRK Irkutsk Russia  
 KIG Kigali Rwanda  
 MEY Meyerton South Africa

MOS Moosbrunn Austria  
 MSK Moscow Russia  
 NVS Novosibirsk Russia  
 SAM Samara Russia  
 TAC Tashkent Uzbekistan

Schedule Engineer, FEBA Radio, Ivy Arch Road, WORTHING BN14 8BX, UK.

WEBSITE: <http://www.feba.org.uk>

(via Alokesh Gupta, in DXLD #4-150; October 1, 2004)

The **Far East Broadcasting Association - FEBA**, a U.K. based religious international broadcaster. FEBA Radio is a Christian evangelical broadcaster and an autonomous member of the Far East Broadcasting Company which operates Christian radio stations in various parts of the world. Postal address: FEBA Radio, Ivy Arch Road, WORTHING BN14 8BX, UK. Fax: +44 1903 205294, E-mail: <[reception@feba.org.uk](mailto:reception@feba.org.uk)>, Website: <<http://www.feba.org.uk>>. (JKB)

**UNITED KINGDOM:** UK media regulator Ofcom has issued a notification of a proposed change to the **UK amateur radio license**. The effect of this change will be to extend the current 7MHz band from 100kHz to 200kHz between 7.000 and 7.200MHz, but the portion between 7.1 and 7.2MHz will be Secondary, and no interference may be caused to other services. Currently, 7100-7200 kHz is used for shortwave broadcasting, though not in the Americas where radio amateurs are already allowed to use 7100-7300 kHz. The change is in line with decisions made at international level. The plan is that eventually 7000-7300 kHz will be used worldwide for amateur radio. UK license holders are invited to submit comments on the proposal by not later than 23 October. E-mail messages can be sent to <[amateurcb@ofcom.org.uk](mailto:amateurcb@ofcom.org.uk)>. (AS at ©RNMN September 23, 2004; via JKB)

**Christian Vision** shortwave B04 radio schedules.

Website <<http://www.christianvision.com>>.

Voice International via Australia (DRW=Darwin)

Chinese to China

2200-0100 15165 DRW 250 kW / 340 deg >>>> ex 2200-0100 for B-03

0700-1200 17635 DRW 250 kW / 340 deg >>>> ex 0800-1400 for B-03

1200-1800 13790 DRW 250 kW / 340 deg >>>> ex 1200-1500 for B-03

English to China

0900-1500 13685 DRW 250 kW / 340 deg >>>> ex 1000-1300 for B-03

1500-1800 15150 DRW 250 kW / 340 deg >>>> new txion

English to Indonesia and South East Asia

0900-1100 11955 DRW 250 kW / 316 deg

1100-1800 13635 DRW 250 kW / 303 deg >>>> ex 1300-1400 for B-03

1800-2100 11685 DRW 250 kW / 303 deg

Indonesian to Indonesia

0400-1000 17820 DRW 250 kW / 290 deg >>>> ex 0600-1000 for B-03

1000-1300 15365 DRW 250 kW / 290 deg

1300-1700 7245 DRW 250 kW / 317 deg >>>> ex 1300-1800 for B-03

Voice International via Uzbekistan (TAC=Tashkent)

Hindi to India

0100-0400 11850 TAC 100 kW / 153 deg

0400-1100 13630 TAC 100 kW / 153 deg >>>> ex 0500-1100 for B-03

1100-1400 13765 TAC 100 kW / 153 deg

1400-1700 9855 TAC 100 kW / 153 deg

Christian Voice via Zambia (LUS=Lusaka)

English to Southern and Central Africa

0400-0700 6065 LUS 100 kW / non-dir >>>> ex 0300-0600 for B-03

0700-1700 9865 LUS 100 kW / non-dir >>>> ex 0600-1500 for B-03

1700-0400 4965 LUS 100 kW / non-dir >>>> ex 1500-0300 for B-03

Voz Christiana via Chile (SGO=Santiago)

Portuguese to Brasil

0400-1100 11890 SGO 100 kW / 060 deg

1100-2300 17660 SGO 100 kW / 060 deg

2100-0100 15475 SGO 100 kW / 045 deg

2300-0400 11745 SGO 100 kW / 060 deg >>>> ex 2200-0400 for B-03

Spanish to Mexico

0100-0400 15585 SGO 100 kW / 340 deg >>>> new txion

Spanish to Northern South America  
 0000-0600 15375 SGO 100 kW / non-dir >>>> ex 0100-1200 for B-03  
 0600-1200 9780 SGO 100 kW / non-dir  
 Spanish to Central America and Caribbean  
 1200-2400 17680 SGO 100 kW / non-dir >>>> ex 1200-0100 for B-03  
 Spanish to Southern South America  
 0000-1200 6070 SGO 100 kW / 030 deg >>>> ex 0000-1000 for B-03  
 1200-2400 9635 SGO 100 kW / 030 deg >>>> ex 1000-2400 for B-03  
 (OBSERVER #331 via WB & Alokesh Gupta, 1 October 2004)

Shortwave transmission hours of **Radio Six International** [SW service started on August 1st, web <<http://www.radiosix.com>>; Ed.], double on October 1st. Following its successful launch in August as Scotland's first - and only international shortwave broadcaster, Radio Six International increases its programming from one to two hours a day on October 1st. The mix of Scottish news, views, music and culture alongside a unique blend of music from unsigned performers around the world will be available to shortwave radio listeners in the USA, Canada, Mexico and parts of western Europe on 5105 kHz every evening from 7.00 to 9.00 pm, Eastern Time (2300-0100 UTC). Transmission facilities are provided in the USA by station WBCQ ("The Planet") which transmits from Monticello, Maine, and provides transmission facilities to a large number of broadcasters and producers. For further details contact TONY CURRIE (Programme Director) - [tony@radiosix.com](mailto:tony@radiosix.com) (Currie, 2004 Sept 21, DXLD #4-144)

**USA:** Broadcasts of the US Government's **Radio and Television Martí** services to Cuba via C-130 Commando Solo aircraft have started. The mediumwave frequency of 530 kHz is being used for the radio service, while TV Martí is on Channel 13, according to an announcement on the Web site of the Office of Cuba Broadcasting. The broadcasts on 530 kHz are described as "test transmissions." Already the Cubans appear to have responded. Terry Krueger in Florida reports that he and others are hearing Radio Rebelde on 530 kHz, though not in parallel with the regular Radio Rebelde outlets. The timing is interesting. It seems plausible that the decision was taken to commence the airborne transmissions at this time because Cuba has serious power shortages in the wake of Hurricane Charley, and its ability to take countermeasures may have been perceived as weakened. Initial reports from Habana suggest that very few people saw the first TV transmissions. It's unclear how long the broadcasts will continue. The Miami Herald reports that "lawmakers said the frequency and timing of future broadcasts would remain classified," suggesting that tactics will involve the use of different times and frequencies at short notice to confuse the Cuban authorities. (AS at ©RNMN August 22, 2004; via JKB)

**Adventist World Radio's** English language schedule will convert from a centralized global schedule to a regionalized one in January 2005, according to AWR president Ben Schoun. Under the new plan, local studios primarily in Africa and the Asia/Pacific region will produce their own English programs, consistent with the format for AWR's other schedules. English language production operations in England will end later this year. "This move will also make us be more consistent with our mission, which is to reach people groups in their own language" says Schoun. (Shelley Nolan Freesland/AWR via HJB via BC-DX #684, 2004 Sep 26)

Schedule of **Adventist World Radio - AWR** valid period B04 (2004-10-31 to 2005-03-27).  
 Address: 12501 Newbold Columbia Pike, Silver Spring, MD 20904-6600, USA.

Site	Start/Stop	Language	Target Area	kHz	Days
SDA	0000-0200	Mandarin	NE-China	17880	1234567
SDA	0000-0030	Burmese	Myanmar	17635	1234567
SDA	0030-0100	Karen	Myanmar, Thailand, China	17635	1234567
SDA	0100-0200	Mandarin	SE-China	17635	1234567
TAI	0100-0200	Vietnamese	Vietnam	15445	7
MOS	0200-0230	English	Pakistan	6175	1234567
MDC	0230-0330	Malagasy	Madagascar	3215	1234567
MOS	0230-0300	Urdu	Pakistan	6175	1234567
DHA	0300-0330	Oromo	S-Ethiopia	9550	1234567
DHA	0300-0330	Russian	C-Asia	9655	1234567
DHA	0300-0330	Amharic	Ethiopia	9760	1234567
MOS	0330-0400	Farsi	Iran	6040	1234567

DHA	0330-0400	Tigrinya	Eritrea	9760	1234567
MOS	0400-0430	Arabic	Iraq, Arab Peninsula	7210	1234567
MOS	0430-0500	Arabic	Egypt, N-Sudan	9875	1234567
JUL	0500-0600	Bulgarian	Bulgaria	6095	1234567
SDA	1000-1030	English	NE-China	11900	1234567
SDA	1000-1100	Mandarin	SE-China	15260	1234567
SDA	1000-1100	Mandarin	NE-China	15430	1234567
SDA	1000-1030	English	Philippines	11870	1234567
JUL	1000-1100	Italian	Italy	11730	1
SDA	1030-1100	Mongolian	N-China, Mongolia	11900	1234567
SDA	1030-1100	Filipino	Philippines	11870	1234567
SDA	1100-1200	Mandarin	NE-China	11895	1234567
SDA	1100-1200	Mandarin	SE-China	12120	1234567
SDA	1100-1130	Indonesian	W-Indonesia	15260	1234567
SDA	1100-1500	Mandarin	NE-China	11825	1234567
SDA	1130-1200	English	W-Indonesia	15260	1234567
SDA	1200-1300	Korean	Korea	9780	1234567
DHA	1200-1230	English	NE-India, Bangladesh	15135	1234567
SDA	1200-1300	Mandarin	SE-China	11690	1234567
SDA	1200-1300	Mandarin	SE-China	12120	1234567
DHA	1230-1300	Bengali	NE-India, Bangladesh	15135	1234567
SDA	1300-1330	Japanese	Japan	11980	1234567
SDA	1300-1330	Japanese	S-Japan	11755	1234567
SDA	1300-1330	Bengali	Bangladesh	15660	1234567
DHA	1300-1330	Mandarin	W-China	15385	23456
DHA	1300-1330	Uighur	W-China	15385	17
DHA	1330-1500	Mandarin	W-China	15385	1234567
SDA	1330-1400	English	Japan	11980	1234567
DHA	1330-1400	Russian	C-Asia	9530	1234567
SDA	1330-1400	Khmer	Cambodia, Vietnam, Thailand, Laos	11695	1234567
SDA	1330-1400	English	Bangladesh	15660	23567
SDA	1330-1400	Assamese	Bangladesh	15660	14
SDA	1400-1430	Sinhalese	Sri Lanka	15660	1234567
SDA	1400-1500	Mandarin	SE-China	11800	1234567
TAI	1400-1500	Vietnamese	Vietnam	11720	1234567
SDA	1400-1430	Burmese	Myanmar	11940	1234567
MOS	1400-1430	Urdu	Pakistan	15440	1234567
SDA	1430-1500	Chin	Myanmar	11940	1234567
SDA	1430-1500	Karen	Myanmar, Thailand, China	15660	1234567
MOS	1430-1500	Afar	Djibouti, NE-Ethiopia, Somalia	15440	1234567
SDA	1500-1530	Mizo	NE-India	11610	1234567
SDA	1500-1530	Tamil	S-India	11985	1234567
DHA	1500-1530	Panjabi	N-India	15215	1234567
DHA	1500-1530	Nepali	Nepal	15225	1234567
SDA	1500-1530	Telugu	S-India	15185	1234567
SDA	1500-1530	Panjabi	N-India, Pakistan	11935	1234567
MDC	1528-1628	Malagasy	Madagascar	3215	1234567
SDA	1530-1600	Malayalam	S-India	11985	1234567
SDA	1530-1600	Hindi	C-India	15245	1234567
DHA	1530-1600	English	Nepal, Tibet	15225	1234567
SDA	1530-1600	Marathi	C-India	11935	1234567
DHA	1530-1600	Hindi	N-India	15215	1234567
SDA	1530-1600	Kannada	S-India	15185	1234567
MOS	1600-1630	German	Germany, Austria, Switzerland	7235	1234567
SDA	1600-1630	English	C-India	15495	1234567
MOS	1600-1630	Urdu	Pakistan	11680	1234567
SDA	1600-1630	English	S-India	15480	1234567
SDA	1600-1630	Urdu	N-India	11980	1234567
SDA	1630-1700	English	N-India	11980	1234567
MOS	1630-1700	Farsi	Iran	11910	1234567
DHA	1630-1700	Somali	Somalia	17595	1234567
MEY	1700-1730	Kiswahili	Tanzania, Kenya, Uganda	12130	1234567
MOS	1700-1730	Arabic	Iraq, Arab Peninsula	11915	1234567
SDA	1700-1730	Filipino	ME	11560	1234567

SDA	1700-1730	Hindi	ME	11675	1234567
MEY	1730-1800	Masai	Tanzania, Kenya	12130	1234567
SDA	1730-1800	Tamil	ME	11675	1234567
MOS	1730-1800	Arabic	Egypt, N-Sudan	11785	1234567
SDA	1730-1800	English	ME	11560	1234567
MEY	1800-1830	English	Botswana, South Africa, Zimbabwe	3345	1234567
MOS	1800-1830	Col English	S-Sudan	9530	46
MEY	1800-1900	English	E-Africa	11925	1234567
MOS	1800-1830	Moru	S-Sudan	9530	15
MOS	1800-1830	Bari	S-Sudan	9530	2
MOS	1800-1830	Juba Arabic	S-Sudan	9530	37
MEY	1800-1830	English	SW-Africa	3215	1234567
MOS	1830-1900	Arabic	Libya	12025	1234567
JUL	1900-1930	Arabic	Morocco, Algeria	9800	1234567
JUL	1930-2000	Tachelhit	Morocco, Algeria	9800	367
JUL	1930-2000	Kabyle	Morocco, Algeria	9800	15
MEY	1930-2000	Ibo	E-Nigeria	15365	1234567
MEY	1930-2000	Hausa	Nigeria	15255	1234567
JUL	1930-2000	Dial Ara	Morocco, Algeria	9800	24
MEY	2000-2030	French	Cameroon, Niger	11845	1234567
MEY	2000-2030	French	C-Africa	15365	1234567
MEY	2000-2030	English	C-Africa	15295	1234567
SDA	2000-2100	Korean	Korea	6045	1234567
SDA	2000-2100	Korean	Korea	6195	1234567
MOS	2000-2030	Dyula	Burkina Faso, Ivory Coast, Mali	9770	1234567
JUL	2000-2030	French	Morocco, Algeria	9695	1234567
MOS	2030-2100	French	W-Africa	9800	1234567
MEY	2030-2100	Yoruba	Nigeria	11845	1234567
MEY	2030-2100	English	C-Africa	15295	1234567
SDA	2100-2130	Japanese	Japan	11980	1234567
SDA	2100-2200	Mandarin	SE-China	7150	1234567
SDA	2100-2200	Mandarin	NE-China	5985	1234567
SDA	2100-2130	Japanese	S-Japan	12010	1234567
MOS	2100-2130	English	W-Africa	9830	1234567
SDA	2130-2200	English	S-Japan	12010	1234567
SDA	2130-2200	English	Japan	11980	1234567
MOS	2130-2200	English	W-Africa	9830	1234567
SDA	2130-2200	English	S-Japan	12010	1234567
SDA	2200-2300	Mandarin	NE-China	11685	1234567
SDA	2200-2230	Indonesian	W-Indonesia	15320	1234567
SDA	2200-2300	Mandarin	NE-China	17880	1234567
SDA	2200-2230	Indonesian	W-Indonesia	11850	1234567
SDA	2230-2300	English	W-Indonesia	15320	1234567
SDA	2230-2300	English	W-Indonesia	11850	1234567
SDA	2300-2400	Mandarin	NE-China	11700	1234567
SDA	2300-2400	Vietnamese	Vietnam	15320	1234567
BON	2300-0057	Spanish	Cuba	6165	1234567
SDA	2300-2400	Mandarin	NE-China	17880	1234567
SDA	2300-2400	Mandarin	SE-China	11850	1234567

Days: 1=Sunday, .. 7=Saturday.

Sites:

N = Bonaire

DHA = Dhabayya

JUL = Juelich

MDC = Madagascar

MEY = Meyerton

MOS = Moosbrunn

SDA = Agat

TAI = Taipei

(Version 01/2004-10-05/pub from AWR Frequency Management Office Darmstadt, Germany via Swopan Chakroborty converted to plain text by WWDXC-HQ; October 09, 2004)

Having not heard *KJES* for a while, OM Hans Johnson called them to see why they are off. They explained that their station has a broken transformer (not further identified). They removed it from their building and it has been sent to El Paso, Texas, for repairs. While they have a back up Gates transmitter, operating this transmitter is complicated and difficult and simply beyond the capability of their volunteer board operators. As soon as they have the transmitter fixed, they will be back on. (Hans Johnson, 2004 Sep 30, Cumbre dx mailing list via DXLD #4-150)

Protestant radio station *Family Radio - WYFR* operated by Family Radio Network, located in California. Transmitters are at Okeechobee, Florida. Some broadcasts are relayed from facilities in Taiwan. Postal address: Family Radio, 290 Hegenberger Road, Oakland, CA 94621, USA. E-Mail: <shortwave@familyradio.com> Web: <<http://www.familyradio.com>> (JKB)  
 WYFR Frequency & Language schedule for period B04 (31 October 2004 to 28 March 2005).  
 Note: Schedule information showing languages for transmissions carried by WYFR for other broadcasters will have to be obtained directly from the other broadcasters.

LANG	TIME (UT)	FREQ	AZ	ZONE	PWR	ENGL	1900-1945	15565	44	27,28	100
ARAB	0400-0500	7520	44	27,28,39	100	ENGL	2000-2200	7580	44	27,28,39	100
ARAB	0500-0600	9985	87	37,46	100	ENGL	2000-2200	17575	140	13	100
ARAB	0700-0800	11580	87	47,52,57	100	ENGL	2004-2200	5820	44	27,28	100
ARAB	1600-1645	15665	44	27,28	100	ENGL	2104-2200	15565	87	37,46	100
ARAB	2000-2100	11565	44	27,28	100	ENGL	2200-2245	21525	87	47,52,57	100
ARAB	2000-2100	21525	87	47,52,57	100	ENGL	2200-2300	9690	142	15	100
ARAB	2200-2245	11665	44	27,28	100	ENGL	2200-2345	11740	315	2	100
ARAB	2200-2245	15565	87	37,46	100	ENGL	2300-0000	5985	181	11	50
CANT	0600-0700	5985	315	2	100	ENGL	2300-0000	11855	222	11	100
ENGL	0000-0100	6065	355	4,5,9	100	ENGL	2300-0000	15170	160	15	100
ENGL	0000-0100	11720	142	15	100	ENGL	2300-0000	15400	151	15	100
ENGL	0000-0445	9505	315	2	100	FREN	0000-0045	15400	151	15	100
ENGL	0100-0445	6065	355	4,5,9	100	FREN	0500-0600	11530	44	27,28,39	100
ENGL	0200-0300	5985	181	11	50	FREN	0500-0600	11580	87	47,52,57	100
ENGL	0200-0300	11855	222	11	100	FREN	0600-0700	7520	44	27,28,39	100
ENGL	0300-0400	9985	151	15	100	FREN	0600-0700	9985	87	37,46	100
ENGL	0300-0400	11740	222	12	100	FREN	0800-0845	11580	87	47,52,57	100
ENGL	0400-0500	7355	44	27,28,39	100	FREN	1000-1045	9680	140	13	100
ENGL	0400-0600	6855	355	4,5,9	100	FREN	1000-1100	11740	151	15	100
ENGL	0404-0500	9715	285	10	50	FREN	1200-1245	6855	355	4,5,9	100
ENGL	0500-0600	7520	44	27,28,39	100	FREN	1300-1400	11740	151	15	100
ENGL	0600-0700	5850	181	11	50	FREN	1600-1645	11855	355	4,5,9	100
ENGL	0600-0700	9680	315	13	100	FREN	1700-1800	15115	87	37,46	100
ENGL	0600-0700	11530	44	27,28,39	100	FREN	1800-1900	15565	44	27,28	100
ENGL	0600-0700	11580	87	47,52,57	100	FREN	1800-1945	17690	87	47,52,57	100
ENGL	0600-0745	7355	44	27,28,39	100	FREN	1900-1945	21455	44	27,28,39	100
ENGL	0700-0745	5985	315	2	100	FREN	2300-0000	6085	355	4,5,9	100
ENGL	0700-0800	9495	222	11	100	GERM	0404-0500	9355	44	27,28,39	100
ENGL	0700-0800	9715	285	10	50	GERM	0500-0600	7355	44	27,28,39	100
ENGL	0700-0845	9985	87	37,46	100	GERM	1700-1800	17760	44	27,28	100
ENGL	0700-1100	6855	355	4,5,9	100	GERM	1800-1900	21455	44	27,28,39	100
ENGL	0800-1045	7455	315	2	100	GERM	2000-2100	9355	44	27,28	100
ENGL	0800-1145	5950	285	10	100	GERM	2100-2145	11565	44	27,28	100
ENGL	1000-1245	6890	355	4,5,9	100	ITAL	0600-0700	9355	44	27,28,39	100
ENGL	1100-1200	9555	160	16	100	ITAL	0700-0745	11530	44	27,28,39	100
ENGL	1100-1200	11725	222	12	100	ITAL	1800-1900	17760	44	27,28	100
ENGL	1100-1200	11830	140	13	100	ITAL	1600-1700	18930	44	27,28	100
ENGL	1100-1345	7355	315	2	100	MAND	0500-0600	5985	315	2	100
ENGL	1200-1300	11530	160	14	100	MAND	1300-1400	13695	355	4,5,9	100
ENGL	1200-1345	11970	285	10	100	MAND	1500-1600	11830	315	13	100
ENGL	1300-1400	11830	315	13	100	PORT	0000-0045	9690	142	15	100
ENGL	1300-1600	11855	355	4,5,9	100	PORT	0000-0045	15170	160	15	100
ENGL	1400-1500	13695	355	4,5,9	100	PORT	0100-0145	11720	142	15	100
ENGL	1400-1645	11615	315	2	100	PORT	0100-0345	7520	142	15	100
ENGL	1400-1645	17760	285	10	100	PORT	0200-0300	7570	160	15	100
ENGL	1500-1545	15210	160	16	100	PORT	0400-0500	11580	87	47,52,57	100
ENGL	1600-1645	11830	315	13	100	PORT	0700-0745	9355	44	27,28,39	100
ENGL	1600-1700	6085	181	11	100	PORT	0800-1000	9680	140	13	100
ENGL	1600-1700	17690	87	47,52,57	100	PORT	0804-1045	6105	142	13	100
ENGL	1600-1800	21455	44	27,28,39	100	PORT	0804-1045	9605	142	15	100
ENGL	1600-1945	13695	355	4,5,9	100	PORT	0900-1100	9575	160	15	100
ENGL	1600-1945	18980	44	27,28,39	100	PORT	1200-1245	11830	140	13	100
ENGL	1700-2145	17510	285	10	100	PORT	1300-1345	11530	160	14	100
ENGL	1800-2100	15115	87	37,46	100	PORT	1400-1500	15210	160	16	100
ENGL	1800-2145	17535	315	2	100	PORT	1500-1545	15355	142	15	100
ENGL	1900-1945	6085	181	11	100	PORT	1700-1800	17690	87	47,52,57	100



PORT	1700-2000	17575	140	13	100	SPAN	0800-1000	11740	151	15	100
PORT	2100-2200	21525	87	47,52,57	100	SPAN	0800-1045	9715	285	10	50
PORT	2200-2245	7580	44	27,28,39	100	SPAN	0800-1100	9555	160	16	100
PORT	2200-2245	17575	140	13	100	SPAN	0800-1145	5810	160	14	100
PORT	2300-0145	11885	140	13	100	SPAN	0900-1000	6890	355	4,5,9	100
RUSS	0304-0400	7355	44	27,28,39	100	SPAN	1000-1600	6085	181	11	100
RUSS	0504-0600	5810	44	27,28,39	100	SPAN	1100-1145	9575	160	15	100
RUSS	1600-1745	21745	44	27,28	100	SPAN	1100-1200	6855	355	4,5,9	100
RUSS	1900-2000	9355	44	27,28	100	SPAN	1100-1245	9605	222	11	100
SPAN	0000-0045	9715	285	10	50	SPAN	1100-1245	9705	285	10	50
SPAN	0000-0200	5985	181	11	50	SPAN	1100-1300	11740	151	15	100
SPAN	0000-0200	11855	222	11	100	SPAN	1200-1345	9555	160	16	100
SPAN	0100-0200	7570	160	15	100	SPAN	1200-1545	11725	222	12	100
SPAN	0100-0300	9985	151	15	100	SPAN	1200-1545	13775	160	15	100
SPAN	0200-0300	11740	222	12	100	SPAN	1300-1345	15355	222	11	100
SPAN	0300-0345	7570	87	47,52,57	100	SPAN	1300-2345	15130	285	10	50
SPAN	0300-0400	9680	315	13	100	SPAN	1400-1500	11830	315	13	100
SPAN	0300-0445	5985	181	11	50	SPAN	1400-1500	15355	142	15	100
SPAN	0300-0445	11855	222	11	100	SPAN	1400-1545	11740	151	15	100
SPAN	0304-0400	6855	355	4,5,9	100	SPAN	1400-1545	17510	160	14	100
SPAN	0400-0445	9985	151	15	100	SPAN	1500-1600	13695	355	4,5,9	100
SPAN	0500-0600	5850	181	11	50	SPAN	1700-1800	17535	315	2	100
SPAN	0500-0600	9355	44	27,28,39	100	SPAN	1700-1845	18930	44	27,28	100
SPAN	0500-0700	9715	285	10	50	SPAN	1700-1900	6085	181	11	100
SPAN	0700-1000	5850	181	11	50	SPAN	2000-2300	5985	181	11	50
SPAN	0600-0700	6855	355	4,5,9	100	SPAN	2000-2300	11855	222	11	100
SPAN	0600-0700	9495	222	11	100	SPAN	2100-2200	9355	44	27,28	100
SPAN	0700-0745	7520	44	27,28,39	100	SPAN	2304-0045	17845	160	14	100
SPAN	0700-0745	9680	315	13	100	SPAN	2304-0100	15215	160	16	100
SPAN	0800-0945	9495	222	11	100						

The following will be the shortwave schedule for Family Stations, Inc. aired from Taiwan 31 October 2004 to 28 March 2005:

English						1000-1100	7130	Korea
0100-0200	15195	S. Asia				Mandarin		
1300-1500	11560	S. Asia				1102-1602	7250	E. Asia
1500-1700	6280	S. Asia				1102-1602	9280	E. Asia
Hindi						2100-0000	7250	E. Asia
0000-0100	15195	S. Asia				2100-0000	9280	E. Asia
1500-1600	11560	S. Asia				Russian		
Korean						1500-1700	9955	Eu/Sib

(Evelyn Marcy - WYFR, 2004 Sept 24, via DXLD #4-146)

**UTILITY:** *New York Radio* is indeed back in business with VOLMET, run across at 1310 UT Oct 1 on 6604-USB, and quickly // better 10051-USB, with NE corridor VOLMET, ID around 1314, then SE weather, 'out' at 1320, immediately replaced by a weaker station, presumably Gander. When did they resume? Kudos to their announcer, who speaks quite distinctly but does not sound robotic (GH in DXLD #4-150; October 1, 2004)

*New York Radio* returns to the air, Volmet broadcasts from New York are once again being heard after about a year's absence, all frequencies heard: 3485, 6604, 10051, and 13270 at 2300 G.M.T. October 1, 2004, followed at 2320 by *Gander Radio*. Thought you may be interested after all the losses we had on SW in the past several years (Paul McCabe, DXLD #4-150; October 1, 2004)

**ZIMBABWE:** A note on the Web site of *SW Radio Africa*, which broadcasts to Zimbabwe from studios in the UK, says that the station has returned to 6145 kHz instead of its alternative seasonal frequency of 4880 kHz. Broadcasts are daily at 1600-1900 UTC. (AS at ©RNMN August 16, 2004; via JKB)

The SW Radio Africa Web site is <<http://www.swradioafrica.com>>. (JKB)

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**Sources & Contributors:**

Alokesh Gupta	New Delhi - India.
A. Slaen	Arnaldo Slaen - Argentina.
AS	Andrew Sennit - WRTH.
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 ©.
Swopan Chakroborty	Kolkata - India.
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	

<i>Languages:</i>	<i>Other common abbreviations:</i>
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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<http://home.snafu.de/j.kubiak/>



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# DX LOGBOOK

## Logs around the clock

by Ashok Kumar Bose, Apt. #634, 3420 Morning Star Drive, Mississauga, ON, L4T 1X9, Canada  
E-Mail: logbook@wwdxc.de

### MEDIUMWAVE BAND

Frequ.	UTC	SIO	ITU	Radio Station	Language	Programme Details	Date	Rep.
183.0	0245	444	D	Europe 1	French	Phone-in,Jingle,ID	0310	SGF
540.0	2015	333	HNG	Magyar Radio 1	Hungarian	Sports News	1109	MF
585.0	2020	333	E	RNE 1, Madrid	Spanish	Football match Madrid vs Barcelona	1109	MF
666.0	1820	333	LTU	Radio Vilinius	English	Cultures	1009	MF
738.0	1835	322	E	RNE 1, Barcelona	Spanish	Sports News	1009	MF
837.0	1840	333	F	Radio Nancy	French	Sports	1009	MF
900.0	2030	333	I	RAI 1,Milano	Italian	Football	1109	MF
936.0	0315	343	D	Bremen 1	German	Popoldies,Jingle-ID	0310	SGF
945.0	1850	333	F	Radio Toulouse	French	ID and Iraq	1009	MF
972.0	0400	444	D	NDR Info	German	ID,News	0310	SGF
999.0	2040	221	G	Red Rose	English	ID,Hits	1109	MF
1044.0	0330	333	D	MDR Info	German	TA,ID,News,Sports	0310	SGF
1197.0	0230	433	D	RFE via Ismaning	Serbian	ID,News,Report	0310	SGF
1197.0	1900	544	D	VOA via Ismaning	English	ID,News,English course	0310	SGF
1260.0	2000	221	G	Brunell Classic Gold	English	Newborn stars	1009	MF
1287.0	1910	322	E	SER Radio Castilla	Spanish	Immigrants to America	1009	MF
1323.0	0515	544	D	VOR via Wachenbrunn	English	Report,Gallery,ID	0310	SGF
1350.0	1915	333	EGY	Egyptian RadioTV	Arabic	Program on Iraq	1009	MF
1386.0	2050	333	G	CRI via Fantasy Radio	English	Life in China	1109	MF
1431.0	1945	322	G	The Breeze	English	ID,Hits	1009	MF
1521.0	2100	221	G	Fame 1521	English	Sports	1109	MF
1539.0	0830	555	D	ERF Mainflingen	German	ID,Lied Jermias	0310	SGF

### TROPICAL BANDS

Frequ.	UTC	SIO	ITU	Radio Station	Language	Programme Details	Date	Rep.
4840.0	0026	211	IND	All India Radio,Mumbai	Hindi	Music and talk	2508	RAD
4915.0	2247	322	GHA	Radio Ghana	English	ID,Religious prayer	2508	RAD
4939.7	0937	222	VEN	Radio Amazonas	Spanish	Latin vocals,ID and TC	0709	RAD
4990.0	0235	211	SRM	Radio Apintie	Dutch	Talks,pop music vocals	0409	RAD
5010.0	0018	322	IND	AIR,Thiruvanthapuram	Hindi	Talks,ID,Flute music	2508	RAD
5026.0	0300	211	UGA	Radio Uganda	English	Poening music,ID	2608	RAD

**SHORTWAVE BANDS**

Frequ.	UTC	SIO	ITU	Radio Station	Language	Programme Details	Date	Rep.
5678.0	0224	322	PRU	Radio Ilucan	Spanish	Talk,ID	1009	RAD
5815.0	0014	222	DEN	World Music Radio	English	ID and oldies	0609	RAD
5905.0	0715	544	D	Bible Voice Broadcasting	English	Lord's Life	0310	SGF
5945.0	1227	544	D	TWR via Juleich	Slovenian	IS,ID,Prayers	0310	SGF
5950.0	0258	433	YEM	Yemen Radio TV	Arabic	Talks and music	0909	RAD
5952.5	0122	221	BOL	Radio Pio Doce	Spanish	Talk,ID's and Latin vocals	0909	RAD
5960.0	2000	433	D	CBS,- RTI	Spanish	IS,RTI Fanfare,ID	0310	SGF
5960.0	2240	322	USA	KAIJ	English	For your Bible thank the Lord	2509	MF
5965.0	0100	221	SNG	Radio Singapore	Chinese	Singapore Airport Best in World	0609	MF
5985.0	0659	433	D	RVI	English	IS,ID,Music of Flanders	0310	SGF
5990.0	0200	333	TCD	Radio Ndjamena	Vernacular	ID,Program	2709	MF
6005.0	2352	433	D	Deutscheland Radio	German	Talks,News	2408	RAD
6010.0	2340	322	CLM	La voz de tu Conciencia	Spanish	Religious talks	0509	RAD
6010.0	0240	534	CAN	Radio Sweden	English	Sounds Nordic	2109	RL
6015.0	1100	444	D	Universal Leben	German	Program Gabriele	0310	SGF
6015.0	1730	544	D	HCJB	German	ID,Program	0310	SGF
6020.0	1104	534	AUS	Radio Australia	English	Asia Pacific	2309	RL
6030.0	0000	433	USA	Radio Marti	Spanish	ID and Programs	0709	AKB
6035.0	0320	222	CLM	La voz del Guaviare	Spanish	ID's and Latin vocals	1109	RAD
6040.0	0230	211	B	Radio Nacional de Brasil	Portugese	Brasilian Bishop	0209	MF
6045.0	0858	544	D	EVR,Hamburg	German	IS,ID,Program	0310	SGF
6055.0	1530	544	D	BCA	Polish	ID,The Book-The Bible	0310	SGF
6075.0	0945	544	D	Deutsche Welle	German	15 Jahre Wende,ID	0310	SGF
6090.0	0110	322	AIA	Dr. Gene Scott	English	Religious program He is the first	0209	MF
6095.0	0045	433	D	Radio Liberty via IBB	Russian	R.Svoboda	0310	SGF
6105.0	0215	444	D	Radio Libert via IBB	Russian	Male ID,Cultural Report	0310	SGF
6110.0	1115	443	D	TOM Brother Stair	English	Prayers,Anncts., ID	0310	SGF
6120.0	0300	323	J	RCI	Russian	ID,Program	2709	MF
6140.0	0320	554	TUR	Voice of Turkey	English	Turkish Folk songs	0309	RL
6150.0	0115	233	CTR	Dr. Gene Scott	English	God is beside us	1109	MF
6165.0	2340	332	CTR	AWR	Spanish	Religious songs	1109	AKB
6165.0	2330	333	USA	KVOH	Spanish	Bible Program	2609	MF
6175.0	0140	221	CAN	Voice of Vietnam	English	Trade to North America	0209	MF
6190.0	0415	322	AFS	BBC World Service	English	Financial Report	1209	MF
6855.0	0405	554	USA	WYFR	English	Open Forum	1908	RL
6870.0	0600	454	USA	WRMI	English	CRI News, Real Time China	1908	RL
6890.0	2200	322	USA	WWRB	English	American Dissident Voices	1109	AKB
7115.0	0120	222	USA	KAIJ	English	Program on President Ronald Reagen	0209	MF
7120.0	0450	554	ASC	BBC World Service	English	Olympics	1708	RL
7155.0	0220	322	D	Radio Liberty	Russian	ID,Cultural Report	0310	SGF
7180.0	1945	222	POR	RDP, Madeira	Portugese	ID,Folk	2509	MF
7185.0	1805	221	BGD	Voice of Islam	English	Islamic News	1709	MF
7210.0	0035	322	UAE	Bible Voice	English	In Jesus look	2009	MF
7225.0	0405	322	RRW	Deutsche Welle via Kigali relay	English	Mailbag	0609	MF
7240.0	1605	554	AUS	Radio Australia	English	Classic FM Oscar Wilde	2109	RL
7245.0	1650	222	TJK	Radio Tadjikistan	English	School disaster	0409	MF

7250.0	0515	554	CVA	Vatican Radio	English	That's why they came to Rome	2408	RL
7295.0	1950	333	CHN	China Radio Intl.,	English	ID and Program	0509	MF
7305.0	0250	534	CVA	Vatican Radio	English	Rome built in a day	0609	RL
7315.0	0330	554	USA	WSHB	English	Dxing with Cumbre # 421	0609	RL
7345.0	0300	534	SVK	Radio Prague	English	News,Mailbox	2009	RL
7415.0	0446	454	USA	WBCQ	English	World of Radio # 1244	0609	RL
7485.0	1420	322	UZB	Bible Voice	English	This is Bible and uzbekistan	1009	MF
7490.0	0302	454	USA	WJIE	English	Good Friends Radio	2409	RL
7545.0	0609	554	UKR	Radio Ukraine Intl.,	English	Music from Ukraine	0609	RL
7580.0	0248	554	USA	WHRA	English	Dxing with Cumbre	0609	RL
9330.0	2150	444	USA	WBCQ	English	Annual Festival of Gods	1109	AKB
9415.0	2245	434	CZE	Radio Prague	English	One on One	2109	RL
9440.0	0025	454	CZE	Radio Prague	English	One on One	2209	RL
9520.0	0225	222	D	Radio Libert via IBB	Russian	ID,Cultural Report	0310	SGF
9525.0	1813	454	INS	Voice of Indonesia	German	Program	0909	RL
9530.0	1812	444	D	RCI	English	ID,Maple Leaf Mailbag	0310	SGF
9535.0	1723	534		Radio Japan,NHK	English	Summer Series	1308	RL
9545.0	2040	332	UZB	Radio Tashkent	English	Mailbag	1809	MF
9560.0	2345	444	D	GFA	Hindi	Prayers,ID	0310	SGF
9580.0	1702	454	AUS	Radio Australia	English	Australia Talksback election	2109	RL
9590.0	1558	454	AUS	Radio Australia	English	Life in a day,Religion	0809	RL
9590.0	0126	554	HUN	Radio Budapest	English	Inside entral Europe	2908	RL
9610.0	0250	322	SEY	BBC World Service via Seychelles	English	English in the Media	0209	MF
9625.0	2045	322	CAN	RCI for Northern Territory	English	Arab Terror danger	1009	MF
9630.0	0405	544		Deutsche Welle	English	Mailbag	2308	RL
9700.0	2320	554	BUL	Radio Bulgaria	English	Events & Development,Song of the Week	2309	RL
9736.9	0835	333	PRG	Radio Nacional	Spanish	Talks,music,ID's	1009	RAD
9740.0	2240	322	SNG	BBC World Service	English	Election Battle of Hongkong	1209	MF
9740.0	0030	433	D	Pan Am Broadcasting	English	Gospel,ID,Rev. John	0310	SGF
9745.0	2250	222	IND	All India Radio,Bangalore	English	Religion Wishes	1209	MF
9770.0	0525	554	AFS	Channel Africa	English	Higher Education	1308	RL
9790.0	2115	322	GAB	Radio France Intl.,	French	Postmail	1809	MF
9805.0	1559	554	AUS	Radio Australia	English	All in the mind	2309	RL
9830.0	2215	454	TUR	Voice of Turkey	English	DX-Corner	0409	RL
9870.0	0125	434	AUT	Radio Austria Intl.,	English	Postbox	0509	RL
9875.0	2338	534	LTU	Radio Vilinius	English	Political parties	1208	RL
9885.0	0334	554	NZL	Radio New Zealand Intl.,	English	Mailbox	3108	RL
9925.0	0200	444	D	Croatian Radio & TV	English	Croatia Today	1409	AKB
9975.0	2334	554	USA	WEWN	English	Catholic Jutebox	2309	RL
9980.0	2329	454	USA	AFRTS	English	National Anthem	2309	RL
11610.0	1450	322	CHN	Radio France Intl.,	English	Program on Phillipines	0409	MF
11635.0	2112	322	F	Voice Of Africa	English	ID,News	0609	RAD
11635.0	0400	454	NLA	Radio Vlaanderen Intl.,	English	Radio World	2009	RL
11655.0	1920	322	MDG	Radio Nederland	English	African clothes for Europe	0909	MF
11665.0	0500	443	D	AWR	Bulgarian	IS,ID,Prayer	0310	SGF
11680.0	1500	433	D	BBC	Croatian	ID,Female Ann,News,ID	0310	SGF
11690.0	2320	222	CAN	Deutsche Welle	German	Program about North Korea	1209	MF
11690.0	0029	454	LTU	Radio Vilinius	English	School teachers	0509	RL
11705.0	0153	433	CLN	VOA	English	Our World	0409	RAD

11710.8	0306	322	ARG	RAE	French	News,ID and lively vocals	0209	RAD
11715.0	1315	131	USA	KJES	English	Praise our God in love	0909	MF
11785.0	0204	333	B	Radio Guaiba	Portugese	Football commentary	0209	RAD
11815.0	0220	333	B	Radio Brasil Central	Portugese	Talks	0209	RAD
11820.0	0505	454	NZL	Radio New Zealand Intl.,	English	Spititual outlook,War & Peace	0509	RL
11820.0	0456	353	ROM	Radio Romania Intl.,	English	DX Mailbag	0509	RL
11845.0	1430	121	CLN	Radio Japan	English	Asia Pacific Conference	0409	MF
11855.0	0206	534	EGY	Radio Cairo	English	Landmarks of Egypt	1508	RL
11880.0	1800	454	AUS	Radio Australia	English	Perspective	2109	RL
11890.0	1640	232	USA	WTJC	English	Jingles	0509	MF
11905.0	2354	454	GUF	Swiss Radio Intl.,	English	Assignment Switzerland	1709	RL
11935.0	2305	211	KWT	VOA	English	News	2408	RAD
11975.0	0100	433	D	Radio Free Asia	Tibetian	ID's in English,Music and News	0310	SGF
11975.0	2041	433	STP	VOA	English	Sunny side of Sports	0609	RAD
11995.0	2330	211	KWT	VOA	English	News	2408	RAD
13650.0	0640	343	D	SRI	German	News,Sports	0310	SGF
13710.0	0108	554	CAN	RCI	English	Anything goes,Radio One	2908	RL
13720.0	1745	322	E	WYFR	??	Gospel ID,Fanfare	0310	SGF
13730.0	1800	444	D	RCI	English	ID,News	0310	SGF
13740.0	1825	322	D	RCI	English	Economics	0909	MF
13775.0	1554	544	CAN	Radio Austria Intl.,	English	Postbox	0509	RL
13795.0	2032	454	SUI	Swiss Radio Intl.,	German	Swiss Infi,Day for Day	2209	RL
15100.0	1040	322	PAK	Radio Pakistan	English	News	1909	MF
15160.0	1430	322	PHL	WYFR	English	Hindu and Buddha is never our way too	1909	MF
15180.0	0106	333	KRE	Voice of Korea	English	News,ID	0509	RAD
15220.0	1450	221	CAN	Radio Nederland	English	Program	1009	MF
15240.0	0501	434	AUS	Radio Australia	English	Bush Telegraph	0709	RL
15295.0	0910	322	MLA	Voice of Malaysia	English	Drug Trade	0909	MF
15385.0	0017	554	E	REE,Madrid	English	Cultural Round Up	2308	RL
15445.0	0630	343	D	SRI	German	ID,Nes,Sports	0310	SGF
15450.0	1730	443	D	IBRA	Arabic	Music,ID	0310	SGF
15476.0	2054	211	ATA	Radio Nacional Arcangel	Spanish	Instrumental music and talks	0609	RAD
15520.0	1530	322	TWN	WYFR	English	The Dream of God	1009	MF
15715.0	1545	443	D	Bible Voice	English	ID,Lukas Prayers	0310	SGF
15720.0	0830	454	NZL	Radio New Zealand	English	South Pacific Dx Report	3008	RL
17490.0	1630	454	CHN	CRI,Kashgar	English	Life in China	1308	RL
17535.0	1315	333	ISR	Bet Reshet	Hebrew	News Magazine	1909	MF
17580.0	0800	433	D	RTBF	French	TS,ID,News,Sports	0310	SGF
17605.0	1120	333	PHL	FEBC	Chinese	Mailaddress	1909	MF
17650.0	1340	322	KAZ	China Radio Intl.,	French	Chinese Socialism	0909	MF
17675.0	0105	454	NZL	Radio New Zealand Intl.,	English	Movies	0509	RL
17695.0	1215	322	UZB	Radio Vlaanderen Intl.,	Dutch	Zeeland	1909	MF
17720.0	1515	222	CHN	RCI	English	Chinese Working party	0909	MF
17720.0	1850	332	PHL	Radio Phillipines	Korean	Talks,ID	0909	MF
17800.0	1930	433	NIG	Voice of Nigeria	English	A Taste of Life in African Village – Pam	0609	AKB
17810.0	1120	333	THA	Radio Thailand	Thai	Program	0909	MF
17815.0	1210	323	ASC	Radio France Intl.,	English	French teens	0909	MF
17835.0	1100	333	PAK	Radio Pakistan	English	Punjab News	0909	MF
17855.0	1050	222	MRA	KFBS	Chinese	Maria is our life	0909	MF

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### Thanks a lot to our club members for your contributions:

AKB : Ashok K. Bose, Mississauga, Ontario, Canada. GRUNDIG Satellit 800 with 10 metres ling wire.

MF : Michael Frese, Osnabrueck, Germany. SONY ICF SW 7600G with SONY LP1 antenna.

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. YAESU FRG 7700 + Multiband Dipole + @ x 10 m-L via FRT 7700.

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Dear Friends,

Welcome to the October edition. The summer in Northern hemisphere has finally come to an end. I just bought a GRUNDIG Satellit 800 and have some loggings with my new Radio in this Logbook.

On September 25 I attended the 30th Anniversary of RadioFest the Annual event of the Ontario DX Association held at Monte Carlo Inn at Oakville just half hour drive from where I stay. I had the oppurtunity to meet Ian McFarland former CBC broadcaster and producer of Short Wave Listeners Digest DX program over RCI. He shared his experiences of his two years assignment with Radio Japan in 1991.

I also meet Alan Heil who retired in 1998 as Deputy Director of Programs at the VOA. Alan is the author of the book **Voice of America: A History**. Alan spoke about the gradual decline of VOA (US informational broadcasting) at the cost of Radio Sawa (Arabic), Radio Farda (Persian) and Radio Aap ki Duniya (Urdu) in the Middle East.

Finally it was Bob Hawkins who explained the devastating effect of BPL (Broadband over powerlines) on Short Wave listening and broadcasting. BPL is a new technology of providing hi speed internet services in remote communities via powerlines instead of a dedicated cable so as to offset the cost of laying a new cable line.

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
Antigua	Deutsche Welle	f/d cd	4 ds	9.690		PBO
Ascension	WYFR	f/d cd	19 ds	15.195	schedule, calendar	PBO
Ascension	NHK World R. Japan	f/d cd	12-17 ds	11.855	schedule	PBO
Australia	Radio Australia	f/d cd	e-mail	9475	60 years Shepparton cd v/s Ian Johnston	MK
Austria	AWR via Moosbrunn	f/d cd	2 ds	6.130	sticker, calendar.	PBO
Bangladesh	Betar	f/d L	41 ds	9.550		PBO
Belgium	DW via Wolvertem	f/d cd	4 ds	1512 Khz		PBO
Canada	NHK World R. Japan	f/d cd	23 ds	6.145	schedule, info.	PBO
Canada	Radio Sweden	f/d cd	6 ds	6.010	schedule.	PBO
Canada	RKI via Sackvile	f/d cd	37 ds	9.560	schedule	PBO
Canada	DW Radio	f/d cd	6 ds	11.690		PBO
China	China Radio International	f/d cd	12 ds	7.170		PBO
China	CRI	f/d cd	10-15 ds	11.650		PBO
China	CRI	f/d cd	17-29 ds	11.775		PBO
China	CRI	f/d cd	22 ds	17.720		PBO
Czech Rep.	Radio Prague	f/d cd	16 ds	6.055	Mouse pad.	PBO
Czech Rep.	Radio Prague	f/d cd	4-6 ds	9.880	Mouse pad.	PBO
Czech Rep.	Radio Prague	f/d cd	8-11 ds	5.930		PBO
Ecuador	ASWLC via HCJB World R.	f/d cd	60 ds	9.780	Postcard	PBO
Ecuador	ASWLC via HCJB World R.	f/d cd	51 ds	9.765	Postcard	PBO
Ecuador	RMRC via HCJB World Radio	f/d cd	4-163 ds	9.780	SASE	PBO
Ecuador	HCJB World Radio	f/d cd	19-46 ds	9780	return postage, info.	PBO
Ecuador	ADDX via HCJB	f/d cd	62 ds	9.780	SASE	PBO
England	R.Ibrahim (Akhar Mufrika)	f/d cd	217 ds	12025	from Elin Larsson	RAD
Eritrea	Voice Broad Masses	f/d L	256 ds	7100	v/s Berhane Gerzgiher	RAD
Fr. Guiana	SRI via Montesinery	f/d cd	22 ds	11.905		PBO
France	Radio Orient	f/d cd	19 ds	1350 Khz		GS
France	RTI via Issoudoun	f/d cd	15 ds	3965	Bookmark, schedule	PBO
Gabon	NHK, Skelton	f/d cd	24 ds	9660		PBO
Gabon	NHK World R. Japan	f/d cd	29-37 ds	11970		PBO
Germany	Bible Voice via Wert	f/d cd	15 ds	13.710	via internet	PBO



Germany	HCJB, Wertachtal	f/d cd	18-35 ds	6015	info.	PBO
Germany	HCJB, Wertachtal	f/d L	26 ds	6.015	info, music cassette	PBO
Germany	Heukelbach via HCJB	f/d cd	22 ds	6015	return postage, info.	PBO
Germany	SRI via DTK Julich	f/d cd	45 ds	11.905		PBO
Germany	Ev. Missions Wertachtal	f/d cd	4 ds	6015		PBO
Germany	DW Radio, Julich	f/d cd	4 ds	6140		PBO
Germany	Bible Voice via Julich	f/d cd	11-37 ds	5.905	via internet	PBO
Germany	SRI via DTK Julich	f/d cd	14 ds	15.445		PBO
Germany	Sudwestrundfunk	f/d cd	10 ds	6030	German language program	RAD
Great Britain	WYFR via Rampisham	f/d cd	17 ds	15165	schudele, calendar	PBO
Great Britain	WYFR, Skelton	f/d cd	19 ds	3955	schedule, calendar, info, IRC	PBO
Great Britain	RKI via Skelton	f/d cd	17-30 ds	3955		PBO
Great Britain	Radio Ndeke Luka	f/d cd	25 ds	15470	IRC	PBO
Greece	RTI via Skelton	f/d cd	12-26 ds	6185	World time table.	PBO
Hungary	Radio Budapest	f/d cd	17 ds	11720		pdo
Hungary	Radio Budapest	f/d cd	7 ds	7160		PBO
Iceland	Rikisutvarpid INBS	f/d cd	37 ds	13865		RAD
India (Goa)	All India Radio Panaji	f/d cd	115 ds	7250	v/s V.K. Sharma	RAD
Iran	IRIB Stimme Teherans	f/d cd	205 ds	15084	info.	PBO
Italy	RAI, Roma	f/d cd	112 ds	9850		PBO
Italy	Radio Six Int via IRRS	f/d cd	4 ds	5775	IRC	pdo
Japan	NHK World R. Japan	f/d cd	23 ds	11970	schedule, info.	PBO
Kazakhstan	DW Radio, Alma Ata	f/d cd	35 ds	9570		PBO
Kazakhstan	DW Radio, Alma Ata	f/d cd	14 ds	17485	info, RR ex INS	PBO
Korea (South)	Stimme Koreas	f/d cd	44 ds	9325	Pin, pennant, RR form, sked	PBO
Korea (South)	Radio Korea Int.	f/d cd	24-29 ds	15210	RR-Form, schedule, RR ex INS	PBO
Madagascar	WYFR via Talata	f/d cd	19 ds	17750	schedule, calendar, info, IRC	PBO
Moldava	WYFR via Grigoriopol	f/d cd	17 ds	7350	schedule, calendar, info, IRC	PBO
Neth. Antilles	AWR	f/d cd	12 ds	6.165		PBO
Portugal	DW Radio, Sines	f/d cd	2 ds	17770	schedule	PBO
Portugal	DW Radio, Sines	f/d cd	6 ds	11865		PBO
Portugal	DW Radio, Sines	f/d cd	4 ds	7140		PBO
Russia	DW Petropavlovsk/Kamt	f/d cd	14 ds	7430	info, RR ex INS	PBO
Russia	RN via Pretropavlovsk Kam	f/d cd	34 ds	12095	RR xe INS	PBO
Russia	DW via Armavir (Krasnodar)	f/d cd	40 ds	15.595		PBO

Russia	Radio Prague (Krasnodar)	f/d cd	5-29 ds	11810		PBO
Russia	DW via Armavir (Krasnodar)	f/d cd	54 ds	15.605		PBO
Russia	Radio Ezra	e-mail	24 hours	17590	v/s John D. Hall	RAD
Singapore	DW Radio kranji	f/d cd	14 ds	15190	info, RR ex INS	PBO
Singapore	NHK World R. Japan	f/d cd	13 ds	11860	via Kranji site	PBO
Slovakia	Radio Slovakia Int	f/d cd	17 ds	9.440		RAD
Slovakia	Radio Slovakia Int	f/d cd	39 ds	7345		PBO
Slovenia	RTV Slovenija	f/d cd	133 ds	918 Khz	Postcard	PBO
Taiwan	Radio Taiwan Int	f/d cd	22 ds	9955		PBO
Taiwan	Radio Taiwan Int	f/d cd	15-23 ds	9565		PBO
Turkey	Stimme der Turkei	f/d cd	10-17 ds	13760		PBO
Turkey	Stimme der Turkei	f/d cd	15-30 ds	13640		PBO
UAE	AWR via Dahabbaya	f/d cd	56 ds	15265		PBO
UAE	DW via Dhabyya	f/d cd	2-40 ds	17860		PBO
UAE	NHK World R. Japan	f/d cd	17-23 ds	17585	schdule, info	PBO
UAE	NHK World R. Japan	f/d cd	14 ds	17720	schedule, info.	PBO
USA	WYFR	f/d cd	19 ds	18930	schedule, calendar, info, IRC	PBO
USA	WYFR	f/d cd	17 ds	13855	Schedule, Calendar	PBO
USA	WWCR Nashville TN	f/d cd	29 ds	15825	sticker, schedule, IRC	PBO
USA	RTI via WYFR	f/d cd	13-27 ds	7520	World time table.	PBO
USA	WHRI	f/d cd	61 ds	5745	two IRC's	PBO
USA	WINB Red Lion	f/d cd	58 ds	9320	two IRC's	PBO
USA	WWRB	f/d cd	25 ds	5085	sheet, info, 2 IRC	PBO
USA	WWCR Nashville TN	f/d cd	32 ds	5935	sticker, calendar.	PBO
USA	WBCQ the planet	f/d cd	40 ds	9330	IRC	PBO
USA	EDXP via WWCR/DXPL	f/d cd	21 ds	15825	two IRC's	PBO
USA	R. Six Int. via WBCQ	e-mail	6 ds	7415	v/s Tony Currie	RAD
USA	KTBN	f/d L	15 ds	7505	v/s Ben Miller	RAD
USA	RTI via WYFR	f/d cd	14-15 ds	11.565		PBO
YUG	Radio Srbija i Crna Gora	f/d cd	16-66 ds	9620	schedule, sticker	PBO

### **Thanks to our Reporters:**

GS = Giovanni Sergi, Italy.

MK = Mukesh Kumar, Bihar, India. (Welcome)

PBO = Peter Boeck, 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.



## Patent Granted for New SETI Antenna Array

The SETI League, Inc., nonprofit leaders in a global Search for Extraterrestrial Intelligence, has received a US patent for a new microwave antenna design being used in the next generation of radio telescopes. The patent will enable SETI scientists to pursue commercial application of their technologies, hopefully generating funding to support their scientific efforts.

Patent Number 6,593,876, "Adaptive Microwave Antenna Array," covers circuitry for combining the signals from multiple small antennas (such as backyard satellite TV dishes) to economically duplicate the performance of much larger, costly single-dish antennas. The technique allows the array to reconfigure itself automatically under computer control, without physically moving individual antennas. It has been tested over the past three years by SETI League volunteers in their Very Small Array (VSA), a research prototype funded in part by grants from the American Astronomical Society and the American Radio Relay League. The grassroots organization currently lacks funding to implement its design in the long-planned Array2k telescope, but hopes that revenues generated by the new patent can bring it closer to full-scale realization of this new design.

The SETI League's patent application was not without controversy. Educational and scientific organizations typically share their technology freely, without seeking legal protection for their intellectual property. "Let me emphasize," states executive director Dr. H. Paul Shuch, "that it is the full intention of The SETI League, Inc. to offer blanket licensing of all our designs, at no fee whatever, to all bona-fide nonprofit users, worldwide and on a non-discriminatory basis. Just as other scientific organizations have freely and generously shared their technology with us, so will we continue to make available to our colleagues anything of value which we happen to develop."

Then why did he choose to pursue the patent on his design? Shuch explains, "Simply because The SETI League (like most such ventures) is operating on the slimmest strand of shoestring. Lacking government or corporate support, we are dependent upon our members for their modest membership dues and such additional contributions as their individual finances dictate. If there is, in fact, a potential for commercial exploitation of our work, we hope that it will generate sufficient funding to allow our continued existence as a viable organization."

SETI scientists seek to determine through microwave and optical measurements whether humankind is alone in the universe. Since Congress terminated NASA's SETI funding in 1993, The SETI League and other scientific groups have been attempting to privatize the research. Experimenters interested in participating in the search for intelligent alien life, or citizens wishing to help support it, should email to <join@setileague.org>, check the SETI League Web site at <<http://www.setileague.org>>, send a fax to +1 (201) 641-1771, or contact The SETI League, Inc. membership hotline at +1 (800) TAU-SETI. Be sure to provide us with a postal address to which we will mail further information. The SETI League, Inc. is a membership-supported, non-profit [501(c)(3)], educational and scientific corporation dedicated to the electromagnetic Search for Extra-Terrestrial Intelligence.

(Dr. H. Paul Shuch, Executive Director, The SETI League, Inc., PO Box 555, Little Ferry, NJ 07643, USA)

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## 9/11 Commission Acknowledges Role of US International Broadcasting

Citing the "promising initiatives" of U.S. international broadcasting in the Arab world, Iran and Afghanistan, the bi-partisan panel investigating the September 11 attacks called for increased funding for those efforts. "The Broadcasting Board of Governors [an AIB member] has asked for much larger resources," the National Commission on Terrorist Attacks Upon the United States said in its report. "It should get them."

The 9/11 commission recommends: "Recognising that Arab and Muslim audiences rely on satellite television and radio, the government has begun some promising initiatives in television and radio broadcasting to the Arab world, Iran, and Afghanistan. These efforts are beginning to reach large audiences."

Kenneth Y. Tomlinson, chairman of the BBG, the independent federal agency that oversees all U.S. international broadcasting, said of the report's recommendations, "We believe that the people of the Middle East and elsewhere are best served by providing them the truth. That's what our broadcasting does." Currently, the BBG's annual budget of more than \$550 million goes to broadcasts around the world through various entities, including the Voice of America; Alhurra television and Radio Sawa, Arabic-language broadcasts; Radio Free Europe/Radio Liberty and Radio Free Asia.

Since 9/11, the BBG has taken steps to dramatically increase its broadcasting to key areas:

- The Middle East: Alhurra, a new satellite television channel launched in February 2004, is aimed at Arabic-speaking viewers in 22 countries across the Middle East. Radio Sawa, a 24/7 station, has garnered large audiences of young people in the region with its mix of news, information and Western and Arabic music.
- Iran: Radio Farda, a youth-oriented, 24/7 radio, covers news about Iran, along with entertainment and features. It is a joint project of VOA and RFE/RL. VOA-TV launched a successful, daily, Persian-language show, *News and Views*, broadcast to audiences by satellite. Additionally, VOA has a Persian service and two other weekly television shows.
- Afghanistan: Audiences in that country are able to listen to a 24-hour stream of news, information and other programs in Dari and Pashto. These are run by the VOA and Radio Free Afghanistan, which is part of RFE/RL. Additionally, the BBG arranged for two medium-wave transmitters to be installed in Kabul - one for the BBG, the other for Afghanistan to help bolster its media.
- Pakistan: The VOA recently expanded its Urdu service to 12 hours daily to reach more Urdu-speaking listeners in Pakistan and parts of India.

("the channel", The Association for International Broadcasting <<http://www.aib.org.uk>> September 2004)

