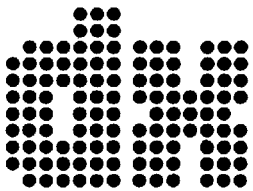


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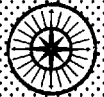
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magazine



WORLD WIDE DX CLUB



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Each of the editors mentioned above is self-responsible for the contents of his composed column. Furthermore, we cannot be responsible for the contents of advertisements published in DX MAGAZINE.

We have no fixed deadlines. Contributions may be sent either to WWDXC Headquarters or directly to our editors at any time. If you send your contributions to WWDXC Headquarters, please do not forget to write all contributions for the different sections on separate sheets of paper, so that we are able to distribute them to the competent section editors.

## WORLD RADIO TV HANDBOOK 2004

Prices for orders from WORLDWIDE DX CLUB • Preise bei Bestellung beim WORLDWIDE DX CLUB:

€ 28.00 or US\$33.60. Extra for air mail: € 7.00 or US\$8.40.

These prices include postage and packing. Delivery against advance payment by International Money Order, cheque in € drawn on a German bank (otherwise please add € 5.00 for bank charges), cheque in US\$ drawn on a US bank, cash in any convertible currency, Postal Money Order or transfer to our postal giro accounts Postbank Frankfurt/Germany No. 289010605 (IBAN: DE49 5001 0060 0289 0106 05 - BIC/SWIFT-Code: PBNKDEFF) or Postbank Leeuwarden/Netherlands No. 3822840.

Der obige Preis enthält Porto und Verpackung. Lieferung gegen Vorauszahlung durch Überweisung, Scheck in € (gezogen auf eine deutsche Bank, sonst € 5,00 zusätzlich für Bankgebühren), Postanweisung oder Bargeld. Postbankkonten: Frankfurt am Main/BRD Nr. 289010605 [Bankleitzahl 500 100 60] und Leeuwarden/Niederlande Nr. 3822840.

## INTERNATIONALE ANTWORTSCHEINE (alte, kleine Version)

Bei uns erhältlich für € 1,00 pro Stück (inkl. Porto). Mindestbestellung: 10 Stück. Laut UPU (s. DX MAGAZINE 6/02, S. 31) sind diese weiterhin unbeschränkt gültig.

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DX MAGAZINE No. 10

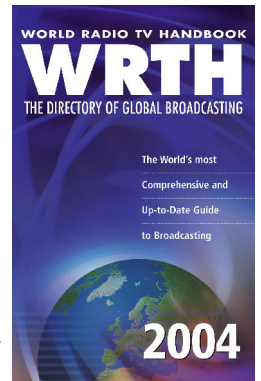
· Vol. XXXVIII

· October 2003

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 2004**, which will be available in Germany in the beginning or mid of December, according to the German general distributor. In this 58th edition for the year 2004 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: Radio reviews, propagation predictions and maps, articles including "Setting Up a Receiving Station and Antennas", Television by country, 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 2004** wieder bei uns bestellen. Leider müssen wir den Preis auf € 28,00 erhöhen, da auch der Ladenverkaufspreis auf € 34,00 erhöht wurde (und damit auch unser Einkaufspreis). Die Preise in anderen Währungen finden Sie auf Seite 2. Das Buch soll laut Ankündigung des deutschen Generalimporteurs 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 Arnhem/Niederlande Nr. 3822840.

Falls Sie bei dieser Gelegenheit gleich Ihren Mitgliedsbeitrag überweisen möchten: Die Mitgliedsbeiträge von 2003 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.

Also **The Shortwave Guide 2003** is still available from us at € or US\$ 16.00. Full details can be found in DX MAGAZINE 7/2003 on pages 2 and 3.

We have still a few copies of **WORLD RADIO TV HANDBOOK 1991** and **1999** left, which we are offering to collectors for € 5.00. These prices include postage and packing. Delivery against advance payment by International Money Order, cash or transfer to our postal giro accounts Frankfurt/Germany No. 289010605 (IBAN: DE49 5001 0060 0289 0106 05 - BIC/SWIFT-Code: PBNKDEFF) or Leeuwarden/Netherlands No. 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 = € 1,50 oder die Scheine Ihren

Briefen an ausländische Sender oder Korrespondenzpartner als Rückporto beilegen (normaler Verkaufspreis bei der Deutschen Post AG = € 1,55. 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.

**ITU TELECOM WORLD 2003**, which took place from 12 to 18 October in Geneva, underlined why it stands as the most important meeting place for the global communications industry. With the industry only now showing signs of recovery, 911 exhibitors representing 51 countries were present with over 375 industry's CEOs and 148 government ministers and regulators participating in the event. Over 1 500 journalists including 300 broadcast media and more than 120 industry analysts were also accredited for the show. In addition, industry-leading CEOs, government regulators and telecommunications ministers participated in the World 2003 Forum. The Forum included six days of presentations and debate on critical industry issues ranging from broadband and mobility, to new business models and new sources of revenue. There was in many of the sessions, passionate discussion on how new technologies can best be harnessed to bring connectivity to more than 1 million villages in the world that are yet to connect to the information society. Some concern was expressed by participants from developing countries who feared that their efforts to bridge the digital divide could be hindered if advances in technology were too rapid and they were unable to keep pace. The next ITU TELECOM event is ITU TELECOM AFRICA 2004, which will take place from 4 to 8 May in Cairo, Egypt. It will be followed by ITU TELECOM ASIA 2004 in Busan, Republic of Korea from 7 to 11 September. (ITU)

Die Internet-Seiten der **Assoziation junger DXer e.V.** (adxb-DL) sind jetzt zu finden unter <<http://www.adxb-dl.de>>.

Auch der **SWLCS-Kurzwellenhörerclub Saar** ist im Internet mit einer komplett neugestalteten Homepage vertreten unter <<http://www.swlcs.com>>. Viele Fotos aus den Anfangszeiten des Klubs sind dort zu finden. Bilder von DX-Camps aus vergangenen Tagen sowie ganz neu die "Rundfunkphilatelie"; das sind nur einige Neuerungen der Homepage. Auch eine QSL-Galerie von fast allen SWLCS-HCJB-QSL-Karten ist Bestandteil unserer URL. Neuer Webmaster ist Gunter Monz.

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**

**ALASKA:** *KNLS*, Anchor Point, Alaska - season schedule B03. Mailing address: Station KNLS, Anchor Point, AK 99556, USA. Fax: +615-371-8791 and email: <[KNLS@aol.com](mailto:KNLS@aol.com)> (for reception reports subject should be "reception report" without quotes). KNLS will provide only ONE QSL for each report, regardless the number of entries and doesn't NOT provide QSL's for other transmitter operators who may air World Christian Broadcasting programs. Only 200 special cards are awarded each season. Each card is individually numbered and features a full color photo of Alaska. To qualify, a report must include: The date and time (UTC only) of the transmission, the frequency and as many program details as you can supply. At the web you will find KNLS at the URL <<http://www.knls.org>>.

October 26, 2003 to November 30, 2003:

UTC	kHz	Language
0800	9690	English
0900	7365	Russian
1000	7365	Mandarin
1100	7365	Russian
1200	9690	Mandarin
1300	9690	English

1400	9615	Mandarin	
1500	9615	Mandarin	
1600	7355	Mandarin	
1700	7355	Russian	(KNLS Webpage, Oct 2003, via JKB)

**AUSTRIA: Austrian Radio** effective from 26.10.2003 - 27.03.2004.

Service Area		Power (KW)	UTC	khz
EUROPE	omnidirectional	300	0530-0000	6155
	omnidirectional	100	1230-1830	13730
			1830-0000	5945
	South / North Europe	100	0530-1230	13730
MIDDLE EAST		100	0630-0730	17870
AMERICA	North America East	300	0130-0230	7325
	North America West	250	1630-1730	17865 (RELAY SACKVILLE)
	Central America	300	0130-0230	9870
	South America	300	0030-0130	13730
ASIA & AUSTRALIA		500	1330-1430	17855

(via Eric Zhou via BCLNEWS.IT via JKB, 5 Oct 2003)

Transmissions in German (ID: "Stimme Der Hoffnung", translated as "Voice of Hope") from **Adventist World Radio - AWR** from 26. October 2003 to 27. March 2004 via shortwave Moosbrunn in Austria:

0800-0830 7235 kHz 300kW  
 1600-1630 7235 kHz 300kW

Reception reports to: Listener Services, Adventist World Radio, 39 Brendon Street, London, W1H 5HD, England. Fax: +44-1344-401-419. E-mail: <mail@awr.org>.

Web: <<http://www.awr-monitoring.de>>

(Lothar Klepp - Technical Listener Service, via WWDXC-HQ; September 09, 2003)

**BOLIVIA: Radio Pio XII** from the city of Oruro suffered an attack with explosives on October 15th. Its transmitter site and that of University Television have been completely destroyed and are currently unable to carry their informative work. This action occurred amongst systematic threats via telephone against community media affiliated to ERBOL (Escuelas Radiofónicas de Bolivia) [Bolivian Radio Schools] in Oruro, Cochabamba and La Paz. (Nicolas Eramo, Argentina, Arnaldo L. Slaen, Argentina, Robert Wilkner, USA, Elmer Escoto, Honduras; October 17, 2003)

**BRAZIL:** A new Brazilian radio station has been heard on shortwave. **Rádio Guarujá Paulista** from Guarujá in the state of São Paulo is broadcasting on 3235 (ZYG860) and 5045 kHz (ZYG850). Already earlier the station had been broadcasting 24 hours a day on 1550 kHz mediumwave with call letters ZYK590. Long ago the 60-meter-band frequency was used by Rádio Difusora from Presidente Prudente, where the transmitter of Rádio Guarujá is located. As reported on Radioescutas, on August 22 Rádio Guarujá station manager Orivaldo Rampazzo contacted DX Clube do Brasil coordinator Caio Fernandes Lopes to inform that the station is on the air. A station identification recorded by Nicolás Eramo in Argentina can be heard in the DXing.info audio section. (DXing.info via ADXN #453 via WWDXC-HQ, Oct 2003)

**CANADA: Radio Canada International - RCI** A03 short wave broadcast schedule, effective 26.10.2003 to 28.03.2004, published by RCI-Engineering. Postal address: Radio Canada International, P.O. / C.P. 6000, Montreal H3C 3A8, Canada. E-Mail: <rci@montreal.radio-canada.ca>.

UTC	Tx/kHz	kW	AZ	TARGET	PROGRAMS
0000-0059	SAC 9755	250	240	Eastern USA / Caribbean	LUN: Le courrier mondial / Fréquence culture
	SAC 11865	250	189	"	MAR: Canada en direct / Zone médias
	SAC 13640	250	176	"	MER: Canada en direct / Le courrier mondial
					JEU: Canada en direct / Fréquence culture
					VEN: Canada en direct / Le sens des affaires
					SAM: Canada en direct / Science-Tech
					DIM: Le sens des affaires / Science-Tech
0000-0057	KIM 9755	100	225	Southeast Asia / China	MON: Tapestry CPSS
	XIA 11895	120	188	"	TUES-SAT: World at Six / As It Happens
					SUN: Quirks & Quarks
0130-0159	SAC 9590	250	176	East & Central USA/Car./Lat.Am.	Language: SPANISH
	SAC 9755	250	240	"	MON: Contestacion a la correspondencia #2

	SAC 11865 250 189 "	TUES-SAT: Canada en las Américas SUN: La semana canadiense
0200-0259	SAC 6040 100 268 USA / Caribbean / Lat.Am. SAC 9755 250 240 " SAC 11725 250 189 "	MON: The Mailbag / Spotlight TUES: Canada Today / Media Zone WED: Canada Today / The Mailbag THURS: Canada Today / Spotlight FRI: Canada Today / Business Sense SAT: Canada Today / Scitech File SUN: Business Sense / Scitech File
0200-0257	XIA 15150 120 258 Indian sub-continent XIA 17860 120 258 "	MON: The Mailbag / Spotlight TUES: Canada Today / Media Zone WED: Canada Today / The Mailbag THURS: Canada Today / Spotlight FRI: Canada Today / Business Sense SAT: Canada Today / Scitech File SUN: Business Sense / Scitech File
0330-0359	HBY 5840 350 135 Middle East WER 6025 500 120 " WER 9615 500 120 "	MON: The Mailbag / Spotlight TUES: Canada Today / Media Zone WED: Canada Today / The Mailbag THURS: Canada Today / Spotlight FRI: Canada Today / Business Sense SAT: Canada Today / Scitech File SUN: Business Sense / Scitech File RCI Arabic
0430-0459	WER 9505 250 120 Middle East WER 11815 250 120 " VIE 11955 100 115 "	RCI Arabic
1100-1259:30 (LUN-VEN)	SAC 9515 250 212 Southeast USA / Caribbean SAC 11805 250 212 "	LUN: Les années-lumière MAR-VEN: Indicatif-présent
1200-1359:30 (SAM-DIM)	SAC 9515 250 212 Southeast USA / Caribbean SAC 11805 250 212 "	SAM: Indicatif-présent DIM: Les affaires et la vie
1200-1259	YAM 9795 100 280 Southeast Asia / China YAM 11730 300 235 "	MON: Quirks & Quarks TUE: Writers & Company (to 23-12-03) TUE: The Nighttime Review (from 30-12-03) WED-FRI: The Nighttime Review SAT: Talking Books / C'est la Vie SUN: Global Village
1300-1559:30 (MON-FRI)	SAC 9515 250 277 East & Central USA / Caribbean SAC 13655 250 240 " SAC 17820 250 227 "	MON-FRI: The Current (Hr 1) Sounds like Canada (Hr 2) MON-THU: Sounds like Canada / Out Front (Hr 3) FRI: Sounds like Canada / C'est la vie (Hr 3) RCI Chinese
1300-1329	YAM 9585 100 280 China KIM 9810 250 270 " YAM 11730 300 235 "	
1400-1659:30 (SAT&SUN)	SAC 9515 250 277 East & Central USA / Caribbean SAC 13655 250 240 " SAC 17820 250 227 "	SAT: The House / Vinyl Café / Quirks & Quarks SUN: The Sunday Edition RCI Chinese
1430-1459	YAM 5985 300 290 China YAM 9535 300 290 " KIM 9810 250 290 "	
1500-1557	XIA 9635 120 258 Indian sub-continent XIA 11935 120 258 "	MON: Quirks & Quarks TUE: Writers & Company (to 23-12-03) TUE: The Nighttime Review (from 30-12-03) WED-FRI: The Nighttime Review SAT: Talking Books / C'est la Vie SUN: Global Village
1600-1629	HBY 5840 350 85 Russia WER 9555 250 60 " WER 11935 250 75 " RMP 13650 500 61 "	Language: RUSSIAN MON-FRI: Canada Today SAT: Language Lessons SUN: Sports Review & Listeners' Forum
1630-1659	SKN 9555 300 95 Ukraine SKN 11935 300 90 "	Language: Ukrainian MON-FRI: Canada and the World SAT-SUN: Canadian Mosaic
1700-1729	SKN 9555 300 95 Ukraine SKN 11935 300 90 "	Language: Ukrainian MON-FRI: Canada and the World SAT-SUN: Canadian Mosaic
1730-1759	MOS 9555 100 55 Russia SKN 11935 300 90 " "	Language: RUSSIAN MON-FRI: Canada Today SAT: Canadian Diary & Cultural Review SUN: Sports Review & Listeners' Forum
2000-2059	SKN 7235 300 180 Europe / North & East Africa SAC 9770 100 60 " FLE 11725 500 191 " SAC 13650 250 73 " SAC 15325 250 105 "	LUN: Canada en direct / Zone médias MAR: Canada en direct / Le courrier mondial MER: Canada en direct / Fréquence culture JEU: Canada en direct / Le sens des affaires VEN: Canada en direct / Science-Tech SAM: Le sens des affaires / Science-Tech DIM: Le courrier mondial / Fréquence culture RCI Arabic
2015-2044	HBY 5995 350 135 Middle East VIE 9615 100 115 " SAC 12015 250 73 " VOL 93,3 FM Bekaa Valley VOL 93,4 FM Bekaa Valley VOL 93,6 FM North and South Lebanon	
2100-2159	HBY 5850 350 230 Europe / Africa / Middle East SKN 7235 300 180 " ARM 7425 300 188 " SAC 9770 250 60 "	MON: Canada Today / Media Zone TUES: Canada Today / The Mailbag WED: Canada Today / Spotlight THURS: Canada Today / Business Sense

	DHA 9805 250 230 "	FRI: Canada Today / Scitech File
	SAC 13650 250 105 "	SAT: Business Sense / Scitech File
2200-2229:30	HBY 5850 300 230 Europe/N & W Africa/Mid-East	SUN: The Mailbag / Spotlight
	SKN 6045 300 180 "	MON-FRI: World at Six
	SAC 9770 250 60 "	SAT: Media Zone
	SAC 12005 250 105 "	SUN: Scitech File
2200-2259	KIM 9810 250 305 China	LUN: Canada en direct / Zone médias
	YAM 12045 300 235 Southeast Asia	MAR: Canada en direct / Le courrier mondial
	ASC 11835 250 65 Africa	MER: Canada en direct / Fréquence culture
		JEU: Canada en direct / Le sens des affaires
		VEN: Canada en direct / Science-Tech
		SAM: Le sens des affaires / Science-Tech
		DIM: Le courrier mondial / Fréquence culture
2215-2244	RMC 1233 MW Moyen-Orient	RCI Arabic
2230-2259	HBY 5850 350 230 Europe / N & W Africa	LUN-VEN: Sans frontières
	SAC 9770 250 60 "	SAM: Zone médias
	SAC 12005 250 105 "	DIM: Science-Tech
2230-2329:30	SAC 9755 250 212 Eastern USA / Car. / Lat.Am.	Sans frontières
(LUN-VEN)	SAC 13730 250 176 "	
2230-2259	SAC 9755 250 212 Eastern USA / Car. / Lat.Am.	SAM: Zone médias
(SAM-DIM)	SAC 13730 250 176 "	DIM: Science-Tech
2300-2329	KIM 6160 100 305 China	RCI Chinese
	YAM 9680 100 280 "	
	YAM 12045 300 235 "	
	SNG 13735 100 13 "	
2300-2329:30	SAC 5960 250 240 Eastern USA / Car. / Lat.Am.	MON-FRI: The World at Six
	SAC 9590 250 240 "	SAT-SUN: The World This Weekend
2300-2329:30	SAC 11865 250 176 Eastern USA / Car. / Lat.Am.	MON-FRI: The World at Six
		SAT-SUN: The World This Weekend
2329:30-0059:30	SAC 5960 250 240 Eastern & Central USA	MON-FRI: As It Happens
	SAC 9590 250 240 "	THU: Dispatches@0030 UTC
		SAT: Madly Off in All Directions /
		Quirks & Quarks
2329:30-2359	SAC 9755 250 212 Caribbean / Latin America	SUN: The Inside Track / Global Village
	SAC 11865 250 176 "	Language: SPANISH
	SAC 13730 250 176 "	MON-FRI: Canada en las Américas
		SAT: La semana canadiense
		SUN: Contestacion a la correspondencia #1

Transmitter Sites:

ARM: ARMAVIR RELAY, RUSSIA	MEY: MEYERTON RELAY, SOUTH AFRICA	SNG: SINGAPORE RELAY, SINGAPORE
ASC: ASCENSION ISLAND RELAY	MSK: MOSCOW RELAY, RUSSIA	VIE: VIENNA RELAY, AUSTRIA
DHA: DHABAYYA RELAY, UNITED ARAB EMIRATES	RMC: RADIO MONTE CARLO	VOL: VOICE OF LEBANON
FLE: FLEVO RELAY, THE NETHERLANDS	RMP: RAMPISHAM, ENGLAND	WOF: WOFFERTON, ENGLAND
HBY: HOERBY RELAY, SWEDEN	SAC: SACKVILLE RELAY, CANADA	WER: WERTACHTAL RELAY, GERMANY
KIM: KIMJAE RELAY, KOREA	SKN: SKELTON RELAY, ENGLAND	XIA: XIAN RELAY, CHINA
SIN: SINES, PORTUGAL	YAM: YAMATA RELAY, JAPAN	

(via Alokesh Gupta-IND, via WDXC-HQ, Oct 17)

**CHINA (TAIWAN):** The following will be the shortwave schedule for *Family Stations Inc.*, aired from Taiwan, 26 October 2003 to 28 March 2004. English 0100-0200 15060 S. Asia 1300-1500 11560 S. Asia 1500-1700 6280 S. Asia Hindi 0000-0100 15060 S. Asia 1500-1600 11560 S. Asia Mandarin 1102-1602 6300 E. Asia 1102-1602 9280 E. Asia 2100-0000 6300 E. Asia 2100-0000 9280 E. Asia Russian 1500-1700 9955 Eu/Sib (Evelyn Marcy, WYFR, DX LISTENING DIGEST via ADXN #453 via WDXC-HQ, Oct 2003)

**CUBA:** *Radio Havana Cuba* is offering a special QSL card for reports about three new txs on SW. This are 9550, 9600 & 11760 kHz, and according to its schedule, they are on air from 0000-0500. All in parallel to 15230 kHz. (GIB, Gaku Iwata, JPNpremium, via BCDX #637, 2003 Sept 4)

**DENMARK:** Schedule of *Radio Denmark* B03, please see Radio Norway in this issue of DXM. Radio Denmark using same frequencies and targets, but times are xx30-xx55. Stations Kvitsoy (K) and Sveio (S) each have two 500 kW transmitters, but run at 250 kW. They are located on the Norwegian west coast near Stavanger and Haugesund at 05.27E 59.04N (K) and 05.19E 59.37N (S). Kvitsoy covers the Eastern Globe, while Sveio covers the Western Globe. Address: Radio Danmark, Radioavisen, Rosenorns Allé 22, DK-1999 Frederiksberg C, Denmark.

Telefax: +45 35 20 57 81.

E-mail: schedule, programme matters: rdk@dr.dk - technical, reports: rdktek@dr.dk

The schedule is also available by auto-reply email from: schedule@dr.dk

WWW: <http://www.dr.dk/rdk> or <http://www.dr.dk/radiodanmark>

Radio Denmark replies complete reports by a QSL-card. Although not necessary, return postage is appreciated (1 IRC, 1 Euro or 1 US dollar). Recordings (incl. RealAudio and MP3 email files) are accepted. Tapes, however, are not returned. (JKB)

**GERMANY:** *German Telecom - Relay* stations transmissions, latest schedule B03 period (10/26/2003 - 03/28/2004) version B03ALL01 of 17.09.2003 (1=Sun ... 7=Sat):

frq	start	stop	ciraf	ant	azi	type	day	from	to	loc	pow	broad
6120	0000	0100	7,8,9	105	295	216	1234567	261003	280304	JUL	100	LRT
5975	0915	1305	28	406	60	106	1234567	261003	280304	JUL	100	DTK(DRM)
5975	1305	1455	28	406	60/290	106	1234567	261003	280304	JUL	100	DTK(DRM)
9760	1100	1300	27,37	308	220	216	1234567	261003	280304	JUL	100	DTK(DRM)
15715	0900	1330	18,28	308	20	216	1234567	261003	280304	JUL	100	DTK(DRM)
21735	1130	1300	41	207	90	218	1234567	261003	280304	JUL	100	DTK(DRM)
9435	0045	0100	41	208	90	218	1	261003	280304	JUL	100	PAB
9495	0130	0145	41	208	90	217	1	261003	280304	JUL	100	PAB
13605	1400	1430	39,40	110	100	217	17	261003	280304	JUL	100	PAB
13605	1430	1445	39,40	110	100	217	17	261003	280304	JUL	100	PAB
13605	1445	1500	39,40	110	100	217	1	261003	280304	JUL	100	PAB
12015	1500	1515	39,40	107	115	217	1	261003	280304	JUL	100	PAB
12015	1500	1515	39,40	110	100	217	47	261003	280304	JUL	100	PAB
12015	1515	1530	39,40	110	100	217	1	261003	280304	JUL	100	PAB
12015	1530	1545	39,40	110	100	217	1	261003	280304	JUL	100	PAB
12015	1545	1600	39,40	110	100	217	1	261003	280304	JUL	100	PAB
5945	2330	0030	41,49	205	70	211	1234567	261003	280304	JUL	100	DVB
6045	0958	1100	27,28	401	ND	926	1	261003	280304	JUL	100	EVR
6045	1100	1200	27,28	401	ND	926	1	261003	280304	JUL	100	EVR
5985	1000	1059	27,28	104	115	206	1	261003	280304	JUL	100	CHW
6015	1830	1859	27,28	401	ND	926	56	261003	280304	WER	125	EMG
9860	2200	2230	12,13,14	213	240	217	4	261003	280304	WER	250	EMG
9635	1500	1530	29,30	212	60	217	7	011103	280304	WER	250	EMG
15225	1100	1130	19-26	203	30	217	7	011103	280304	WER	250	EMG
17870	1500	1559	48	106	145	217	17	261003	280304	JUL	100	AWH
17870	1500	1530	48	106	145	217	3456	261003	280304	JUL	100	AWH
11840	1830	1859	52,53	302	160	216	5	261003	280304	JUL	100	RRP
9820	1700	1759	38,39,48	209	140	216	1346	261003	280304	JUL	100	SBO
9820	1630	1659	38,47,48	209	140	216	36	261003	280304	JUL	100	DTK
9820	1600	1659	47,48	209	140	216	15	261003	280304	JUL	100	DTK
17655	0700	0759	38,47,48	106	145	217	1	261003	280304	JUL	100	DTK
7220	1830	1929	47,48	210	140	216	4	261003	280304	JUL	100	DTK
5925	1500	1559	27,28	402	ND	976	7	261003	280304	JUL	100	DTK
9820	1700	1759	38,39,48	209	140	216	25	261003	280304	JUL	100	DTK
6180	0900	0959	27,28	402	ND	976	7	011103	280304	JUL	100	DTK
11840	1900	1959	47,48	106	145	217	6	011103	280304	JUL	100	DTK
9710	0500	0530	38,39	106	115	217	1234567	261003	280304	JUL	100	IBR
7260	2000	2100	37,38	405	175	141	1234567	261003	280304	JUL	100	IBR
9660	1730	1759	47,48	119	135	216	1234567	261003	280304	WER	125	IBR
9495	1900	2000	46NE,SE,NW	304	190	217	1234567	261003	280304	JUL	100	IBR
9520	1730	1845	47,48,52	311	150	218	1234567	261003	280304	WER	125	IBR
9495	1600	1629	37,38	406	175	106	1	261003	280304	JUL	100	UNL
9435	0100	0129	41	110	90	217	1	261003	280304	JUL	100	UNL
6015	1730	1759	27,28		ND	926	345	261003	280304	WER	125	UNL
11840	1800	1829	46,47,48	302	160	216	1	261003	280304	JUL	100	UNL
7105	1900	1929	39,40	105	115	216	1	261003	280304	JUL	100	UNL
13810	1300	1559	28,29,39,40	103	115	217	1234567	261003	280304	JUL	100	TOM
13810	1400	1559	18,28,29	307	30	216	1234567	261003	280304	JUL	100	TOM
9770	0400	0600	55,58,59,60	112	240	216	1234567	261003	280304	JUL	100	TOM
6110	1200	1600	27,28	401	ND	926	1234567	261003	280304	JUL	100	TOM
6110	1600	1700	27,28	401	ND	926	7	261003	280304	JUL	100	TOM
9605	2000	2100	52,53,57	306	160	216	1234567	261003	280304	JUL	100	TOM



9490	0357	0559	47,48,52,53	306	160	216	23456	261003	280304	JUL	100	RTB
9490	0527	0559	47,48,52,53	306	160	216	17	261003	280304	JUL	100	RTB
17580	0600	0812	47,48,52,53	303	160	216	23456	261003	280304	JUL	100	RTB
17580	0600	1059	47,48,52,53	303	160	216	7	261003	280304	JUL	100	RTB
17580	0600	0906	47,48,52,53	303	160	216	1	261003	280304	JUL	100	RTB
21565	1057	1306	47,48,52,53	301	160	216	23456	261003	280304	JUL	100	RTB
21565	1100	1217	47,48,52,53	301	160	216	7	261003	280304	JUL	100	RTB
21565	1157	1217	47,48,52,53	301	160	216	1	261003	280304	JUL	100	RTB
15135	1557	1816	47,48,52,53	303	160	216	123456	261003	280304	JUL	100	RTB
15135	1657	1831	47,48,52,53	303	160	216	7	261003	280304	JUL	100	RTB
6015	1900	2000	28,29	404	60	141	7	261003	280304	JUL	100	BVB
6015	1900	2030	28,29	404	60	141	1	261003	280304	JUL	100	BVB
5975	0730	0915	27,28	406	290	106	17	261003	280304	JUL	100	BVB
9470	1900	1930	39,40	111	120	217	5	261003	280304	WER	250	BVB
9470	1900	2000	39,40	111	120	217	67	261003	280304	WER	250	BVB
9470	1900	2015	39,40	111	120	217	17	261003	280304	WER	250	BVB
7295	1900	1915	46,47	211	170	217	2345	261003	280304	JUL	100	BVB
7295	1900	1930	46,47	211	170	217	16	261003	280304	JUL	100	BVB
7295	1900	1959	46,47	211	170	217	7	261003	280304	JUL	100	BVB
9645	1630	1659	38S,39S,47,48	304	130	217	1234567	261003	280304	JUL	100	BVB
9645	1659	1729	38S,39S,47,48	304	130	217	2345	261003	280304	JUL	100	BVB
11690	0500	0530	39,40	120	120	217	246	261003	280304	WER	125	BVB
11650	1615	1730	39,40	?	125	?	3456	261003	280304	NAU	125	BVB
11650	1700	1800	39,40	?	125	?	17	261003	280304	NAU	125	BVB
17565	0845	1015	38,39	304	130	217	6	261003	280304	JUL	100	BVB
6015	1900	1945	28,29	404	60	141	23456	261003	280304	JUL	100	VOH
5975	0800	0850	27,28	406	290	106	23456	261003	280304	JUL	100	VOH
7210	1800	1859	39,40	105	100	216	17	261003	280304	JUL	100	VOH
9860	1530	1700	39,40	105	115	217	2	261003	280304	JUL	100	VOH
9860	1530	1715	39,40	105	115	217	5	261003	280304	JUL	100	VOH/BVB
9860	1530	1745	39,40	105	115	217	3	261003	280304	JUL	100	VOH/BVB
9860	1530	1759	39,40	105	115	217	46	261003	280304	JUL	100	VOH/BVB
9860	1515	1759	39,40	105	115	217	17	261003	280304	JUL	100	VOH
11650	1615	1730	39,40	?	125	?	2	261003	280304	NAU	125	VOH
9705	1530	1615	40,41	110	90	217	3	261003	280304	JUL	100	VOH
9705	1530	1600	40,41	110	90	217	124567	261003	280304	JUL	100	VOH
9585	1330	1430	49,50	202	70	218	1234567	261003	280304	JUL	100	NHS
13650	1430	1529	41,43,49	218	75	217	1234567	261003	280304	WER	250	GFA
13790	1530	1629	40,41	218	90	217	1234567	261003	280304	WER	250	GFA
9495	0030	0130	40,41	212	90	217	1234567	261003	280304	WER	250	GFA
9765	2300	0030	41,43,49	221	75	217	1234567	261003	280304	WER	250	GFA
13720	1700	1800	37,38	405	175	141	1234567	261003	280304	JUL	100	YFR
9595	2000	2100	39,40	105	115	217	1234567	261003	280304	JUL	100	YFR
11735	2000	2100	37,38,46,47	406	190	106	1234567	261003	280304	JUL	100	YFR
9815	0400	0559	46,47,52,53	304	160	217	1234567	261003	280304	JUL	100	UMC
11690	0600	0800	37,46	304	190	217	1234567	261003	280304	JUL	100	UMC
13820	1700	1859	38,48,53	305	145	217	1234567	261003	280304	JUL	100	UMC
11735	1700	1859	46,47,52,53	306	160	216	1234567	261003	280304	JUL	100	UMC
7285	2300	0359	55,59,60	204	230	218	1234567	261003	280304	JUL	100	HRT
7285	0000	0359	17	112	300	216	1234567	261003	280304	JUL	100	HRT
7285	0200	0559	17	119	325	216	1234567	261003	280304	JUL	100	HRT
9470	0500	0759	55,59,60	202	230	218	1234567	261003	280304	JUL	100	HRT
9470	0600	0959	58,59,60	208	270	218	1234567	261003	280304	JUL	100	HRT
<u>FMO (Frequency Managing Organizations)</u>												
6140	0600	1000	27,28	405	175	141	1234567	261003	280304	JUL	100	DWL
6140	1000	1300	27,28	406	120	106	1234567	261003	280304	JUL	100	DWL (DRM)
6140	1300	1600	27,28	405	175	141	1234567	261003	280304	JUL	100	DWL
6140	1600	1900	27,28	402	ND	976	1234567	261003	280304	JUL	100	DWL (DRM)
5965	0600	0756	27,28,37-40	105	115	217	1234567	261003	280304	JUL	100	DWL

5985	0757	0826	27,28	119	265	216	1234567	261003	280304	JUL	100	VRT2
13790	1827	1956	27,28,37-39	111	120	216	1234567	261003	280304	JUL	100	VRT2
5910	1857	2056	27,28	401	ND	926	7	261003	280304	JUL	100	VRT1
7130	0500	0559	28SE	105	100	216	1234567	261003	280304	JUL	100	AWR
9840	0600	0730	37,38W	308	200	216	1234567	261003	280304	JUL	100	AWR
11730	1000	1100	28W	105	145	216	17	261003	280304	JUL	100	AWR
5840	1730	1900	28E	406	115	106	1234567	261003	280304	JUL	100	AWR
11845	1900	2030	37,38W	307	200	216	1234567	261003	280304	JUL	100	AWR
7340	1127	1200	28,29	111	105	216	7	261003	280304	JUL	100	TWR
5945	1327	1345	28	104	130	206	1234567	261003	280304	JUL	100	TWR
5945	1657	1730	28	111	105	216	7	261003	280304	JUL	100	TWR
7180	1657	1730	28	104	100	206	7	261003	280304	JUL	100	TWR
7315	0557	0615	28,29	104	100	206	23456	261003	280304	JUL	100	TWR
7315	0927	0945	28	104	100	206	34567	261003	280304	JUL	100	TWR
5945	1727	1800	28	111	105	216	123456	261003	280304	JUL	100	TWR
5945	1730	1800	28	111	105	216	7	261003	280304	JUL	100	TWR
13790	0555	0800	37S,38W,46	307	200	216	1234567	261003	280304	JUL	100	SRI
9885	0555	0800	37S,38	302	160	216	1234567	261003	280304	JUL	100	SRI
9755	1625	1815	28,38E,39	102	115	217	1234567	261003	280304	JUL	100	SRI
11810	1625	1815	38,39	107	115	217	1234567	261003	280304	JUL	100	SRI
9820	1825	2130	37S,38W,46	308	200	216	1234567	261003	280304	JUL	100	SRI
13660	1825	2130	38,48,53W	106	145	217	1234567	261003	280304	JUL	100	SRI
11920	1825	2130	47,52,53,57	303	160	216	1234567	261003	280304	SOT		SRI
17665	0555	0800	47,52,53,57	301	160	216	1234567	261003	280304	SOT		SRI
21770	0825	1030	47,52,53,57	301	160	216	1234567	261003	280304	SOT		SRI
15555	1625	1815	38,48,53W	106	145	217	1234567	261003	280304	SOT		SRI
9885	2155	2400	13-16	202	240	218	1234567	261003	280304	SOT		SRI
17555	1230	1300	29,30	109	80	218	1234567	261003	280304	JUL	100	IBB
6055	1500	1600	29,30	111	75	216	1234567	261003	280304	JUL	100	IBB
6180	1600	1700	39,40	211	110	216	1234567	261003	280304	JUL	100	IBB
12110	1700	2000	39,40	208	100	218	1234567	261003	280304	JUL	100	IBB
9785	1800	1900	39,40	110	100	217	1234567	261003	280304	JUL	100	IBB
6010	0230	0430	40	108	90	216	1234567	261003	280304	WER	500	IBB
21690	0630	1030	40	123	90	217	1234567	261003	280304	WER	500	IBB
21690	1230	1430	40	123	90	217	1234567	261003	280304	WER	500	IBB
12140	1630	1830	40	111	90	217	1234567	261003	280304	WER	500	IBB
5910	2230	0030	40	222	90	216	1234567	261003	280304	WER	500	IBB
5995	0200	0300	39,40	105	100	216	1234567	261003	280304	JUL	100	VOR
5995	0300	0400	39,40	105	100	216	1234567	261003	280304	JUL	100	VOR
9555	1500	1600	39,40	102	115	217	1234567	261003	280304	JUL	100	VOR
5975	2000	2200	39,40	211	110	216	1234567	261003	280304	JUL	100	VOR
5965	2000	2200	39,40	111	105	216	1234567	261003	280304	JUL	100	VOR
6170	2100	2200	39,40	105	115	216	1234567	261003	280304	JUL	100	VOR
6175	2300	2400	39,40	105	100	216	1234567	261003	280304	JUL	100	VOR

\* changes

+ active on demand

# momentary not active

AWH Allerweltshaus Koeln e.V.

AWR Adventist World Radio

BVB Bible Voice Broadcasting

CHW Christliche Wissenschaft

DTK Deutsche Telekom

DVB Democratic Voice of Burma

DWL Deutsche Welle

DLF Deutschlandfunk

DLR DeutschlandRadio

EMG Evangelische Missions Gemeinden in  
Deutschland

EVR Evangeliums Radio Hamburg

GFA Gospel For Asia

HRT Hrvraska Radio Televizija

IBB International Broadcast Bureau

IBR IBRA Radio Sweden

LRT Radio Vilnius Lithuania

PAB Pan Am Broadcasting

RNW Radio Netherlands World Service

RRP Radio Reveil Paroles de Vie

RSA Radio Salama

RTB Radio Television Belge de la  
communaute Francaise

SBO Sagalee Bilisummaa Oromoo

SRI Swiss Radio International  
 TIS Tigrean International Solidarity for  
 Justice and Democracy  
 TOM The Overcomer Broadcast  
 TWR Trans World Radio  
 UMC The United Methodist Church  
 (Weyl via WDXC-HQ; July 10, 2003)

UNL Universelles Leben  
 VOH High Adventure Ministries - The Voice  
 of Hope (ex HAM)  
 VOR Voice of Russia  
 VRT Vlaamse Radio en Televisie (ex RVI)  
 YFR WYFR Family Radio

**GUAM (USA) :** Schedule B03 of *KTWR Trans World Radio*, Guam. October 30, 2003 - March 28, 2004.

KHz	UTC	kW	deg	CIRAF (zones)	Mon-Sun	Language				
7455	1100-1600	100	320	42,43,44		1234567 Mandarin	12130	0845-0915	100 285 43,44	1234567 Hakka
9430	1100-1200	100	285	49		1234567 Vietnamese	12130	0915-1600	100 305 42,43,44	1234567 Mandarin
9430	1400-1445	100	278	49		1234567 Vietnamese	12130	2145-2245	100 305 42,43,44	1234567 Mandarin
9465	1200-1300	100	345	45		1234567 Japanese	13715	2200-2230	100 285 49	1234567 Vietnamese
9740	1600-1630	100	335	44,45		12345 7 Korean	15195	2200-2230	100 255 54	1234567 Indonesian
9865	0930-1100	100	315	42,43,44		1234567 Mandarin	15200	0900-0915	100 248 54	12 567 Balinese
9910	0915-1100	100	320	42,43,44		1234567 Mandarin	15200	0915-1000	100 248 54	34 Torajanese
9975	1300-1330	100	315	42,43,44		1234567 Mandarin	15200	0915-1000	100 248 54	1234567 Madurese
9975	1330-1400	100	285	42,43,44		1234567 Swatow	15200	1030-1100	100 248 54	1234567 Sundanese
9975	1400-1415	100	285	42,43,44		6 Cantonese	15200	1100-1230	100 248 54	1234567 Indonesian
9975	1400-1500	100	285	42,43,44		12345 7 Cantonese	15205	0740-0900	100 263 49,50,54	12345 English
9975	1500-1545	100	315	42,43,44		1234567 Mandarin	15205	0730-0900	100 263 49,50,54	67 English
11690	2100-2200	100	345	45		1234567 Japanese	15330	0745-0930	100 165 51,55,56,58,59,60	12345 English
11720	1230-1330	100	278	49		1234567 Khmer	15330	0815-0930	100 165 51,55,56,58,59,60	67 English
11765	1100-1200	100	345	44,45		1234567 Korean	15330	0930-1100	100 255 54	1234567 Indonesian
11785	2115-2200	100	320	42,43,44		1234567 Mandarin	15330	1415-1445	100 285 49	1234567 Sgaw Karan
11850	1200-1300	100	255	49,54		1234567 Javanese	15330	1445-1545	100 285 41,48,49	1234567 English
11875	2200-2215	100	293	43,44		6 Cantonese	15365	1300-1415	100 285 49	1234567 Burmese
11875	2200-2300	100	293	43,44		12345 7 Cantonese	15395	1330-1400	100 293 41,49	1234567 Indian

(via HJB, 6 Oct 2003)

**IRAQ:** The *International Broadcasting Bureau of the Broadcasting Board* (IBB) of Governors has awarded a contract to US transmitter manufacturer Harris Corporation to supply equipment to help rebuild the communications infrastructure of Iraq. The contract includes 1kW, 5 kW and 10 kW FM radio transmitters along with accessories and additional equipment from Orban, Inc. for various sites in Iraq, including Baghdad. The transmitters will be used to carry BBG programme services including Radio Sawa, Radio Free Iraq, and the Voice of America. "Harris offers a broad spectrum of innovative, assured communications products that are ideally suited for rapid deployment and infrastructure development," said Howard L Lance, chairman, president and CEO of Harris. "Our products have been deployed in developing nations around the world, and we are addressing the specific needs of Iraq where infrastructure development is lacking or nonexistent." (© Radio Netherlands Media Network 30 September 2003, 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 is today the sole outlet of the BBC World Service and a major source of multilingual programs in Italy's most important industrial and commercial center. 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.

B03 schedule for **IRRS-Shortwave**, effective 26 October 2003 - 28 March 2004. 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	0900-1400	Sat & Sun	18-19, 27-30, 37-39	20 kW A3	nd	English, German
5775	2000-2130	daily, not Fri	18-19, 27-30, 37-39	20 kW A3	nd	English, German, Italian
5775	2000-2130	Friday	18-19, 27-30, 37-39	100 kW A3	nd	English, German, Italian

(IRRS website 1 Oct 2003, via JKB)

**LATVIA:** *Laser Radio*'s Relay service operates on 9290 kHz shortwave from a 100 kW transmitter in Latvia. Regular relays will recommence on Saturday October 4 from 1000 UTC. (Laser Radio website via ADXN #453 via WWDXC, Oct 2003)

**MISCELLANEOUS:** *LaserRadio.net*, which recently commenced weekly relays of the Dutch Internet station *Radio Seagull* on 9290 kHz at 1000-1500 on Saturdays, says is planning to restructure. A statement on its mailing list says: "With the re-commencement of our operations on the shortwave band as a relay broadcast service provider, we are planning some major changes in the operational structure of our organisation. Included within the new package will be a change of our operational name. LaserRadio.net will shortly be adopting a familiar and well known operational name which reflects more fully our broadcasting mission. Additionally we are developing a studio broadcast centre in Riga, the Capital of Latvia. This facility will enable our staff to present regular and 'live' programming via shortwave and the Internet. Further details will be announced on our website and on this newsgroup when all the preparatory work has been completed." (© Radio Netherlands Media Network 7 October 2003, via JKB)

The width of *amateur service at 7 MHz* Band was set to 300 kHz worldwide in 1927 at Washington International Radiotelegraph Conference. At Cairo Conference in 1938 the top portion of the band from 7100 kHz was useable for broadcasting services outside of the Americas (Region 2). Until today, only amateurs in Region 2 can use a bandwidth of 300 kHz. Now at the World Radiocommunication Conference at Geneva this year 2003 a decision was made to extend the amateur service in regions 1 and 3 up to 7200 kHz, which is effective at 29 March 2009. In Region 2 amateur service width remains 300 kHz unchanged. (ITU News #9 July/August 2003 via WWDXC-HQ)

**NEW ZEALAND:** *Radio New Zealand International - RNZI* valid schedule 26 October 2003 - 28 March 2004. Address: P.O.Box 123, Wellington, New Zealand. Fax: 00 64 4 474 1433 and e-mail address is <info@rnzi.com>. Reception reports by e-mail or post are welcome and at the web <<http://www.rnzi.com/pages/contact.htm>> RNZI has provided forms of reception reports for e-mail (Netscape users only) and postal mail. Please do not send cassettes. All DX reception reports must contain detailed programme information for verification purposes and be accompanied by two International Reply Coupons (IRC) or \$US 2 if a QSL is sought. E-mail reports will be verified by e-mail only.

UTC	kHz	Primary Target	Az.	Days
1650 - 1750	6095	NE Pacific, Fiji, Samoa, Cook Islands	35'	Daily
1751 - 1850	11980	NE Pacific, Fiji, Kiribati, Samoa, Cook Islands	0'	Daily
1851 - 2239	15265	All Pacific, also audible in Europe	0'	Daily
2240 - 0359	17675	All Pacific, also heard on the west coast of the USA	0'	Daily
0400 - 0705	15340	All Pacific, also Europe, and mid-west USA	0'	Daily
0706 - 1105	11675	All Pacific, also mid-west USA	0'	Daily
1106 - 1259	15530	NW Pacific, Bougainville, Timor, Asia	325'	Daily

1300 -1649 6095 All Pacific 0' #Daily  
# from 1 September.

Bougainville/Timor Transmission 1105 -1305:

From 1105 -1305 our programme is directed to the North Western Pacific and Asia for NZ Forces serving overseas. (RNZI website Last-Modified: 3 Oct 2003, via JKB)

**NORWAY:** *Radio Norway* B03 schedule October 26 - December 31, 2003:

UTC	Target (primary coverage in brackets)	kHz	Tx	Beam					
1200-1230	South East Asia, Australia (west), Russia	11615	K	80	2300-2330	South America, Canary Islands	7560	S 235	
	Far East	12070	K	40		North America (east), Caribbean	7390	S 280	
	Europe, Mediterranean, Canary Islands	13800	S	180		South America	7465	S 235	
	North America (east), Caribbean	18950	S	280		South East Asia, Australia (west)	7490	K 80	
1300-1330	Europe	9590	S	180		Far East	7560	K 40	
	Far East	11610	K	40	0000-0030	South East Asia, Australia (west)	7490	K 80	
	South East Asia, Australia (west), Russia	13800	K	80		North America (east), Caribbean	7560	S 280	
	North America (east + central), Greenland	17550	S	300	0100-0130	North America (east), Caribbean	7560	S 280	
1400-1430	Russia, Europe (south east), Middle East (north), South Asia (India)	13800	K	95		North America (east + central), Greenland	9945	S 300	
	North America (east + central), Greenland	17735	S	300	0200-0230	South Asia (India)	7490	K 95	
1500-1530	Russia, Europe (south east), Middle East (north), South Asia (India)	13800	K	95		North America (east), Caribbean	7560	S 280	
	Middle East (west)	15735	K	120		North America (east + central), Greenland	9590	S 300	
	North America (west), Greenland	17525	S	315	0400-0430	North America (west), Greenland	7465	S 315	
1600-1630	Russia, Europe (south east), Middle East (north)	7490	K	95		Russia, Middle East (north)	7490	K 95	
	Europe (south east), Middle East (west), Africa (east)	13800	K	145		Europe (south east), Africa (east), Middle East (west)	7560	K 145	
	North America (west), Greenland	15705	S	315	0500-0530	Europe, Africa (north)	7490	K 165	
1700-1730	Europe	7490	S	180		0600-0630	Europe	5945	S 180
	Europe (south east), Middle East (west) - NOT Sundays!	9980	K	120		Africa, Europe (south)	13800	K 165	
	Europe (south east), Middle East (west), Africa (east) - NOT Sundays!	13800	K	145	0700-0730	Europe	7180	K 165	
	North America (east), Caribbean	18950	S	280		Europe, Canary Islands, Africa (west)	9590	S 195	
1800-1830	Europe	7490	S	180		0800-0830	Far East, New Zealand	11975	K 35
	North America (east + central), Greenland	15735	S	300		Australia, Europe (south west), (South America)	13800	S 250	
1900-1930	Europe, Canary Islands	7490	S	180		0900-0930	Far East, New Zealand	11975	K 40
	North America (west), Greenland	13800	S	315		Australia, Europe (south west), South America	13800	S 250	
2000-2030	Europe, Canary Islands	7490	S	180		Middle East (east), South Asia (India)	18950	K 110	
	Africa	9980	K	165	1000-1030	Europe, Mediterranean, Canary Islands	13800	S 180	
2100-2130	Europe, Canary Islands, Africa (west)	7490	S	195		South America, Canary Islands, Africa (west)	21765	S 235	
	Australia	7560	K	65	1100-1130	Europe, Mediterranean, Canary Islands	13800	S 180	
2200-2230	Far East	7465	K	40		Africa	21755	K 165	

Stations: Kvitsoy (K) and Sveio (S)

(BCLNEWS.IT via JKB, Oct 2003)

**PERU:** Short wave station *Radio Naylamp* comes back to the waves after being off the air for a long time. In the past time this station was reported on 4177 and 4299. Now it can be heard on 4335 with a good signal received here in Chimbote [Peru, Ed.] seaport. This station broadcasts from 0930 to 1300 and from 2200 to 0330. Radio Nylamp verifies correct Reception Reports with a QSL Letter. Address: Radio Naylamp, Av. Andrés, Avelino Cáceres # 800, Lambayeque, Peru. FAX: 51-074 283353. (Cesar Perez Dioses via CONEXION #226; August 30, 2003)

**POLAND:** Polish coastal maritime station *Gdynia Radio* will close on Dec 31, 2003. Gdynia Radio is activ: 0400-2200 8788/8264 kHz, 13122/12275 kHz, 17332/16450 kHz. (Joe Leyder in A-DX, via BCDX #637, 2003 Sept 4)

**SOUTH AFRICA:** New B03 Broadcast Schedule (version B2003a) for *Trans World Radio - TWR* Johannesburg, 26 October 2003 to 27 March 2004.

TIME/UTC	DAY	LANGUAGE	MB	FREQU	PWR	AZI	TARGET AREA
0330-0345	34	Sidamo	41	7215	250	5	Ethiopia
0330-0345	5 7	Amharic	41	7215	250	5	Ethiopia
0600-0615	1234567	English	25	11640	500	320	Nigeria
1600-1630	1234567	KiRundi	31	9675	250	19	Burundi
1625-1655	12345	Somali	31	9660	500	20	Somali
1625-1640	67	Somali	31	9660	500	20	Somali
1657-1712	123456	Juba	31	9660	500	5	Sudan
1645-1700	123	Oromo	31	9930	250	19	Ethiopia
1645-1700	45	Kambaata	31	9930	250	19	Ethiopia

1645-1700	67	Hadiya	31	9930	250	19	Ethiopia
1700-1730	1234567	Amharic	31	9930	250	19	Ethiopia
1730-1800	12345	Oromo	31	9930	250	19	Ethiopia
1703-1718	1234567	Sena(FEBA)	41	7265	250	19	Mozambique
1718-1733	1234567	Yao (FEBA)	41	7265	250	19	Mozambique
1733-1748	2 5 7	Yao (FEBA)	41	7265	250	19	Mozambique
1830-1900	1234567	Hausa	31	9695	500	335	Nigeria
1900-1915	1234567	Kanuri	31	9695	500	335	Nigeria
1830-1900	1234567	Fulfulde	31	9510	500	330	Sahel
1900-1930	1234567	Yoruba	31	9510	500	330	Nigeria
1930-1945	12345	Twi	31	9510	500	330	Nigeria
1930-1945	67	Ewe	31	9510	500	330	Ghana
1945-2015	7	Igbo	31	9510	500	330	Nigeria
1945-2000	6	Igbo	31	9510	500	330	Nigeria
1830-1900	1234567	Bambara	31	9720	250	315	Ivory Coast
1900-1945	1234 67	French	31	9720	250	315	Ivory Coast
1900-1930	5	Songhai	31	9720	250	315	Burkina Faso
1930-1945	5	Moore	31	9720	250	315	Mali
1945-2000	7	Songhai	31	9720	250	315	Burkina Faso

Explanation:

DAY is the day of the broadcast = 1 is Monday etc. & 7 is Sunday  
 FREQU is the frequency in kilohertz  
 MB is the metreband  
 PWR is the power of the transmitter in kilowatts  
 AZI is the direction of the antenna (via HJB, 21 August 2003)

**SWAZILAND:** New B03 Broadcast Schedule (version B2003a) for *Trans World Radio - TWR* via Manzini, 26 October 2003 to 27 March 2004.

TIME/UTC	DAY	LANGUAGE	FREQU	PWR	ANT	AZI	ZONE							
0300-0330	12345 7	Ndebele	3200	035	050	003	Zimbabwe	1600-1630	67	Shangaan	4760	025	050	3 Mozambique
0300-0315	6	Ndebele	3200	035	050	003	Zimbabwe	1630-1645	1 4 6	Portuguese	4760	025	050	3 Mozambique
0300-0330	1234567	Shona	3240	025	090	003	Zimbabwe	1630-1645	23 5	Shangaan	4760	025	050	3 "
0330-0345	1234567	Ndau	3240	025	090	003	Zimbabwe	1645-1700	1234567	Ndau	4760	025	050	3 "
0300-0345	1234567	Swahili	7240	100	110	5	East Africa	1730-1900	1234567	English	9500	100	110	13 East Africa
0340-0355	1234567	Lomwe	4775	050	050	003	Mozambique	1702-1717	12 4567	Swahili	9475	100	102	5 East Africa
0400-0430	12345	German	4775	025	070	233	South Africa	1717-1747	1234567	Swahili	9475	100	102	5 East Africa
0400-0500	67	German	4775	025	070	233	South Africa	1747-1817	12345	Swahili	9475	100	102	5 East Africa
0400-0430	12345	German	6120	025	060	233	South Africa	1747-1802	6	Swahili	9475	100	102	5 East Africa
0400-0500	67	German	6120	025	060	233	South Africa	1802-1817	6	Kimwani	9475	100	102	5 East Africa
0400-0430	1234567	Chewa	6100	100	110	5	Malawi	1747-1802	7	Kimwani	9475	100	102	5 East Africa
0430-0500	12345	Chewa	6100	100	110	5	Malawi	1700-1715	2 4 6	Tswana	3200	050	060	233 South Africa
0430-0500	12345	English	4775	025	070	233	South Africa	1700-1715	3 7	Pedi	3200	050	060	233 South Africa
0430-0630	12345	English	6120	050	060	233	Southern Africa	1700-1715	1 5	Sotho	3200	050	060	233 South Africa
0500-0630	67	English	6120	050	060	233	Southern Africa	1730-2045	1234567	English	3200	050	060	233 South Africa
0500-0900	1234567	English	7205	050	070	233	Southern Africa	1750-1820	12345	Umbundu	6130	100	010	313 Angola
0500-0900	1234567	English	9500	100	110	5	Central Africa	1820-1835	1234567	Chokwe	6130	100	010	313 Angola
1400-1415	1234567	Urdu	15330	100	103	43	Pakistan	1835-1850	1234567	Umbundu	6130	100	010	313 Angola
1440-1510	12345 7	Portuguese	7315	050	110	5	Mozambique	1850-1905	1	Luvale	6130	100	010	313 Angola
1440-1455	6	Portuguese	7315	050	110	5	Mozambique	1850-1905	234567	KiKongo	6130	100	010	313 Angola
1455-1510	6	Makua	7315	050	110	5	N Mozambique	1905-1920	12 4	Portuguese	6130	100	010	313 Angola
1510-1525	1234567	Makua	7315	050	110	5	N Mozambique	1905-1920	67	Lunyaneka	6130	100	010	313 Angola
1525-1555	1234567	Lomwe	7315	050	110	5	N Mozambique	1905-1920	3	Luchazi	6130	100	010	313 Angola
1440-1510	12345	Malagasy	9585	100	030	53	Madagascar	1905-1920	5	Fiote	6130	100	010	313 Angola
1510-1555	1234567	Malagasy	9585	100	030	53	Madagascar	1920-1950	1234567	Portuguese	6130	100	010	313 Angola
1545-1600	567	Shona	6070	025	050	3	Zimbabwe	1950-2005	1234567	Kimbundu	6130	100	010	313 Angola
1600-1630	1234567	Ndebele	6070	025	050	3	Zimbabwe	2005-2235	7	Portuguese	6130	100	010	313 Angola
1630-1700	1234567	Shona	6070	025	050	3	Zimbabwe	1905-1935	1234567	Lingala	9525	100	101	343 D R Congo
1600-1630	1234567	SiSwati	1170	050	MW	ND	Swaziland	1935-1950	1234567	French	9525	100	101	343 D R Congo
1630-1700	1234567	Zulu	1170	050	MW	ND	Swaziland	1950-2005	6	French	9525	100	101	343 D R Congo
1700-2030	1234567	English	1170	050	MW	ND	Southern Africa	1950-2020	7	French	9525	100	101	343 D R Congo
1600-1630	1234567	Chewa	6130	050	110	5	Malawi							
1630-1700	1234567	Chewa	6130	050	110	5	Malawi							
1700-1715	12345	Chewa	6130	050	110	5	Malawi							
1700-1715	6	Bemba	6130	100	110	5	Zambia							
1600-1630	12345	Tshwa	4760	025	050	3	Mozambique							
1630-1645	7	Tshwa	4760	025	050	3	Mozambique							

Explanation:  
 DAY is the day of the broadcast = 1 is Monday etc. & 7 is Sunday  
 FREQU is the frequency in kilohertz  
 MB is the metreband  
 PWR is the power of the transmitter in kilowatts  
 AZI is the direction of the antenna

(via HJB, 21 August 2003)

**SWITZERLAND:** Schedule B03 of *Swiss Radio International - SRI*. Targets only East Africa and South America, for other regions of the world listen to live-streams at the internet or satellite streams. The two remaining shortwave targets will end in December 2004. Address: Swiss Radio International, Giacomettistrasse 1, CH-3000 Bern 15. Fax: +41-31-3509544, E-mail: technical@swissinfo.org, Web: <<http://www.swissinfo.org>>.

Near East-Africa:

0600-French/0630-German/0700-Italian/0730-English on:  
 9885-Julich/Germany-160 deg  
 13790-Julich/Germany-200 deg  
 17665-Sottens/Switzerland-165 deg  
 0830-English/0900-Italian/0930-German/1000-French on:  
 21770-Sottens/Switzerland-165 deg  
 1630-Italian/1700-Arabic/1730-English/1800-French on:  
 9755-Julich/Germany-115 deg  
 11810-Julich/Germany-115 deg  
 15555-Sottens/Switzerland-140 deg  
 1830-Italian/1900-Arabic/1930-English/2030-German/2100-French on:  
 9820-Julich/Germany-200 deg  
 11920-Sottens/Switzerland-165 deg  
 13660-Julich/Germany-145 deg  
 17660-Montsinery/F.Guiana-115 deg

South America:

2200-French/2230-German/2300-Italian/2330-English on:  
 9885-Sottens/Switzerland-230 deg  
 11660-Montsinery/F.Guiana-175 deg (www.swissinfo.org via JKB, 5. Oct 2003)

**UGANDA:** Kampala newspaper The Monitor has published more details of the new radio station *Radio Rhino International-Africa - RRIA*. The station's director Godfrey Elum Ayoo, a Ugandan political activist living in exile, told the newspaper that the station, based in Berlin, will be launched by former President Milton Obote and Col. Kizza Besigye, a losing presidential candidate in 2001. The two will host a one-hour show talking about politics and the need to redirect the democratisation process in Uganda. RRIA will broadcast in English. There will be no broadcast on Mondays. Ayoo said that RRIA "is a declaration of an airwave campaign in the liberation, protection and promotion of the freedoms of expressions and the rights to information by the press, mass media and the people of Uganda." He said the radio would cover news on current events, politics, economy, health, education, culture and environment. (© Radio Netherlands Media Network 8 September 2003, via JKB)

Radio Rhino International-Africa, which is currently testing and will commence regular broadcasts to Uganda on 23 September, has announced on its Web site that for the B03 broadcast season commencing on 26 October it will use 17870 kHz instead of the current 17555 kHz. Broadcasts are Tues-Fri at 1500-1530 UTC and Sat/Sun at 1500-1600 UTC. (© Radio Netherlands Media Network 15 September 2003, via JKB)

**UNITED KINGDOM:** *BBC World Service*, schedule B03.

Albanian [to EU]	1630-2000 6030om
0630-0700 7210ra 9635cy 11845cy	1700-2100 9915cy
1330-1415 s..... 9750cy 15115sk	1800-2115 6110ra 11680sk
1415-1445 9750cy 15115sk	2000-2200 6030om
1800-1830 6050cy 7105ra 9685sk	2100-2400 5875ra 6110cy(2115-) 9915cy
2100-2115 .mtwtf. 7150ra 7205cy 9670om	Azeri [to cAS]
Arabic [toME/nAF]	1800-1830 5875cy 7195cy 9750la
0000-0300 6105ra 7140sk	BBC English [to Africa]
0000-0445 9915sk	0705-0720 6005as
0300-0600 11740cy 15180om(0330-)	1730-1745 3390me 7230me 9685me
0300-1200 7140cy 13660cy	1915-1930 15105as 17885as
0400-0730 6110sk(-0600) 7325ra	BBC English [to Albania]
0445-0730 9915ra(-0600) 9915sk	1830-1845 .m.w... 6050cy 7105ra 9685sk
0600-0800 11740cy 15180om(0330-)	BBC English [to eAS]
0730-1100 15180ra 17610sk	1030-1100 9605ya 11945na 15285sn 21660na
0800-1800 11820cy	BBC English [to sAS]
0900-1630 15555cy 21455au(-1130)	1445-1500 .mtwtf. 6140om 7205na 15245om
1100-1630 15180ra 17585sk	BBC English [to AF (French)]
1200-1800 13660sk	1230-1245 15425wo 17780as 21640as
1200-2400 7140cy	BBC English [to AF (Hausa)]
1630-1800 11680ra 15180cy	1330-1345 15105as 21640as

BBC English [to AS]  
0030-0100 9580sn 17615na  
0530-0545 6010sk 9865ra  
1130-1145 7135si 11750na  
1530-1545 11685si 15540si  
BBC English [to Romania]  
0630-0645s.....s 9875cy  
BBC English [to AF (Somali)]  
1400-1415 .mtw... 11860se 15420se 21490cy  
BBC English [to AF (Swahili)]  
0245-0300 9610se  
BBC English [to Ukraine]  
1730-1800 5875cy 7105la 9530sk  
Bengali [to sAS]  
0030-0100 6065om 9790na 11850sn  
1330-1400 7225na 7430ta 11835sn  
1630-1700 5990na 7205sn 9605na  
Brazilian [to SAM]  
2130-2200 9870as 11965an 15390as  
2230-2300 9870as 11965an 15390as  
Burmese [to seAS]  
0000-0030 6065na 9580sn 11850sn  
1345-1430 7135sn 9540sn 11685sn 15295cy  
Croatian [to seEU]  
0600-0610 .mtwtf. 7210ra 9865cy  
1200-1210 .mtwtf. 11895cy 15325ra  
1500-1515 .mtwtf. 7110bi 11975cy  
English [to eAF]  
0300-0400 6005as 9750cy 12035se  
0300-0500 3255me 6190me  
0329-0600 12035cy(0400-0500) 15420se  
0500-0529 17885se  
0500-0700 17640cy  
0500-1700 6190me 11940me  
0529-0559 .mtwtf. 17885se  
0600-0800 s.....s 17885se  
0800-1100 17885se  
0800-1300 21470se  
1100-1200 17885cy(-1200 17885se(1200-))  
1300-1400 15420se 21470as  
1400-1700 21470as 21660cy  
1500-1530 11860se 15420se 21490me  
1615-1700 s.....s 11860se 15420se(-1630) 21490me  
1630-1700 15420se  
1700-1746 6005se 9630se  
1700-1900 15420me 21470as  
1700-2200 3255me 6190me  
1830-2100 6005se 9630se 12095as(1900-)  
2100-2200 6005se  
English [to wAF]  
0300-0700 7160as 11765me  
0400-0705 6005as 15400as(0629-)  
0700-1000 11765as(-0800) 15400as 17830(0800-)  
1000-1100 s.....s 15400as 17830as  
1100-2100 15400as(-1130) 17830as  
1500-2300 9605se(2100-) 15400as  
English [to Americas]  
0000-0300 6010sa(-0100) 9825sk 12095as  
0000-0400 5975an 9525ok(0100-)  
0400-0500 5975an 6010sa  
0400-0600 6135de  
0900-1000 6195an(1000-) 15190as(-1000)  
1000-1130 s.....s 15190as  
1100-1130 s.....s 6195an 15190an  
1100-1130 17790as  
1130-1200 .mtwtf. 15190an  
1130-1200 6195an  
1130-1700 s.....s 6195an(1200-1230) 15190an  
1230-1400 6195an  
1230-1700 .mtwtf. 15190an  
2100-2130 s.....s 5975an  
2100-2400 5975an(2130-) 12095as  
English [to seAS]  
0000-0030 3915sn 11945ya 17615na  
0000-0300 9740sn(-0100) 6195sn(-0200) 15280na 15360sn  
0000-0530 15280  
0300-0500 15280na 15360na 17760na 21660na  
0500-0800 15280(-0530) 21660sn  
0500-0900 11955na 15360sn  
0500-1000 17760sn  
0800-1030 21660na  
0900-1600 smtwtf. 6195sn(-1100) 9605ya(-1030) 9740sn  
1000-1400 17760na  
1000-1600 .....s 6195na(-1100) 6195sn(-1100) 9740sn  
1100-1700 6195sn 7160na(1400-1600)  
1600-1800 3915sn 7160sn  
2100-2200 5965na 3915sn 6110ya 6195na  
2200-2300 5965na 6195sn 7105om 9740sn 11955sn  
2300-2400 3915sn 6035sn(2330-) 6195sn 9740sn 11945ya 11955na  
15280na  
English [to sAS]  
0000-0100 smtwtf. 5970om 11955na 15310na  
0000-0300 9410cy(-0200) 17790sn  
0100-0300 11955om 15310na  
0300-0700 15310om(-0600) 17790na  
0600-1800 15310na 17790om(0700-1600)  
1500-1600 5975sn  
1600-1830 5975na 9510sn(-1800) 9510na(1800-) 17790ra(-1700)  
English [to Carib.]  
1100-1130 .mtwtf. 6195an 15190an  
1200-1230 .mtwtf. 6195an 15190an  
2100-2130 .mtwtf. 5975an  
2115-2130 .mtwtf. 11675an 15390gr  
English [to EU]  
0300-0800 6195ra  
0400-0600 6195sk 9410cy 9410ra  
0500-0900 9410ra 12095cy(-0700)  
0700-1700 9410wo(1500-) 12095wo 15485sk  
1700-2300 6195ra 6195sk(-2000) 6195cy(2000-) 9410cy(-2200)  
2300-2400 6195ra  
English [to Falklands]  
2130-2145 .t..f. 11680ra  
English [to MEF]  
0300-0400 9410cy 9410sk  
0300-0500 11760cy 15575cy  
0333-0400 s..... 5875ra 5875wo 6065sk 7130ra 7265cy 9670ra  
0405-0430 s..... 5875ra 5875wo 6065sk 7130ra 7265cy 9670ra  
0433-0500 s.....s 5875ra 5875wo 6065sk 7130ra 9670ra  
0500-0730 11760om(-0600) 15565cy(-0700) 15575cy  
0505-0530 s.....s 7295ra 9670ra 11845wo  
0700-1800 11760om(-1400) 15565ra  
0730-0900 s.....s 15575cy  
0700-1500 15575cy(0900-) 17640sk 17640wo(0800-)  
1700-2000 12095wo(-1900) 15310na(1800-)  
English (News) (to EU/AS)  
0000-0100 .....s 5970om 11955na 15310na  
0200-0300 6195sk 9410cy 9750se  
0900-1000 .....s 6195na 6195sn 9740sn  
0900-1030 .....s 9605ya  
2005-2030 s..... 5875cy 5990ra 7325cy 9635cy 9825wo  
French [to AF]  
0430-0500 6155as 7105as 17885se  
0600-0629 7105as 9610as 9710ra 15425cy  
0700-0729 15105as 17695me  
1200-1230 15425wo 17780as 21640as  
1800-1830 7230me 9815wo 15105as 17885as 21630as  
Hausa [to wAF]  
0529-0600 6135as 7105as 9610as  
1345-1415 15105as 17810as 21640as  
1930-2000 11855as 15105as 17885as  
Hindi [to sAS]  
0100-0130 6065om 7320cy 7375ta 11750om 15510na  
0230-0300 11725om 15405na 15510ir 17615na  
1400-1445 6140om 7205om 7430ta 11920sn 15245om  
1445-1500 s..... 6140om 7205na 15245om  
1700-1730 6065na 7205sn 7235om 9605na  
Indonesian [to seAS]  
1100-1130 7135sn 9510sn 11920na  
1300-1345 6030om 6035na 7135sn 9540sn 11945sn  
2200-2300 3915sn 6080sn 9510sn 11995na  
Mandarin [to China]  
1100-1300 11945na 21660na  
1100-1530 7330v1 9605ya 15285sn  
1300-1530 6065km 7105na  
2200-2300 7160na 9580na 11945ya  
2200-2330 6035km 6110na 7150om  
Nepali [to sAS]  
1500-1530 7430ta 11685sn 15540sn  
Pashto [to w/swAS]  
0100-0200 7165cy 9875cy  
0100-0230 17615na  
0200-0300 5875cy 7320sk 9735cy  
0700-0730 .....f. 15420om 17870cy  
0700-0900 .....f. 12035dh  
0730-0800 smtw.fs 15420om 17870cy  
0800-0900 .....f. 15420om 17870cy  
1100-1200 15420om 17870cy  
1500-1600 6195sk 13755na 15575cy  
Persian [to ME]  
0200-0300 7165cy 9875cy 11750om  
0300-0400 7165cy 9875ra 11750cy  
0700-0800 ....t.. 12035dh 15420om 17870cy  
0845-0900 ....t.. 12035dh 15420om 17870cy  
0900-1000 ....t.f. 15420om 17870cy



1000-1100 15420om 17870cy 21515sk	Sinhala [to sAS]
1100-1300 .....f. 12035dh 21515sk	1515-1545 6140om 9680sn
1400-1500 6195sk 13755na 17870cy	Somali [to eAF]
1600-1700 6195sk 9915cy	1100-1130 17850se 21590cy
1600-2000 6090om 13755na 15540sn	1400-1415 ....tf. 11860se 15420se 21490cy
Persian/Pashto [to ME]	1415-1500 11860se 15420se 21490cy
0400-0445 11750cy 13650cy	1800-1830 6005se 9630se 15450wo
0800-0845 smtwf.s 12035dh 15420om 17870cy	Spanish [to C+SAM]
1200-1300 15420om 17870cy	0000-0115 5875ra 5875sk 6110an 6110as 9855as 11765as
Portuguese [to s+wAF]	0115-0130 ..twfss 5875ra 5875sk 6110an 6110as 9855as 11765as
0430-0500 3390me 6135me 7205me	0300-0345 5995de 6110an 7325ra 7325sk 9515de
2030-2100 3390me 6135me 7205me 11695sk 11855as 13700ra	0345-0400 ..twfss 5995de 6110an 7325ra 7325sk 9515de
Romanian [to seEU]	1100-1130 .mtwtf. 6110gr 6130de 9670an 15220as
0600-0630 9875cy (mo-fr: -0615)	1300-1330 .mtwtf. 6130de 9670de 15325gr
1200-1230 11680cy	Swahili [to eAF]
1600-1630 6050cy	0300-0329 7235ra 9610se 11865me
1900-1930 6050ra	0400-0430 7185as 11730se 15400me
Russian [to Russia]	1530-1615 11860se 15420se 21490me
0300-0330 5875ra 7265cy 9670om	1615-1630 .mtwtf. 11860se 15420se 21490me
0330-0333 s..... 5875ra 5875wo 6065sk 7130ra	1746-1800 6005se 7230me 9630me
0330-0333 7265cy 9670ra	Tamil [to sAS]
0330-0430 .mtwtfss 6065sk 7130ra	1545-1615 6140om 7205na 9680sn
0330-0433 .mtwtfss 5875ra 5875wo	Thai [to seAS]
0333-0400 .mtwtfss 7265cy 9670ra	1235-1300 7135sn 9540sn 15265cy
0400-0533 .mtwtf. 9670ra	2330-2400 6060om 7185cy 9580sn
0400-0405 s..... 5875ra 5875wo 6065sk 7130ra	Turkish [seEU]
0400-0405 7265cy	0500-0530 .mtwtf. 6010sk 9865ra
0400-0405 s.....s 9670ra	0900-1000 s..... 9410cy 11780cy
0405-0430 .mtwtfss 7265cy 9670ra(sat)	1600-1700 5875ra 9530la 12010sk
0430-0433 5875ra(sun) 5875wo(sun) 6065sk 7130ra 9670ra(sa-su)	2030-2100 .mtwtf. 7115ra 9670om
0433-0500 .mtwtf. 5875ra 5875wo 6065sk 7130ra	Ukrainian [to Ukr.]
0500-0505 7295ra 9670ra(sa-su) 11845wo	0500-0600 .mtwtf. 5875ra 7260wo 9895cy
0500-0600 .mtwtf. 6020wo 9670ra(0533-)	1500-1530 11865ra 13640sk 15470wo
0505-0600 .mtwtf. 7295ra 11845wo	1700-1730 5875cy 7105la 9530sk
1630-1700 s.....s 7435mo(sun) 7385mo(sat)	Urdu [to sAS]
1730-1900 11670ra 13640ra	0130-0200 6065om 7320cy 11750om 15510na
1730-2005 7325cy 9635cy 9825wo	1500-1600 6035om 7205na(-1545) 9510sn 11920cy
1800-1900 11925ra	1730-1800 6065na 7205sn 7235om 9605na
1900-2005 5875cy 5990ra	Uzbek [to cAS]
2005-2100 .mtwtfss 5875cy 5990ra 7325cy 9635cy 9825wo	1600-1630 7325cy 7435mo 9635om
Serbian [to seEU]	1630-1700 .mtwtf. 7325cy 7435mo 9635om
0500-0515 6130ra 7210wo 9510cy	Vietnamese [to seAS]
0545-0600 6010sk 7210cy 9865cy	1430-1500 6135sn 7135sn 11685sn
1130-1145 11680bi 13650ra 15325ra	2300-2400 6080sn 7105na 11865sn
1500-1515 .mtwtf. 5875cy 12025ra 15115sk	DRM Test Progs [to EU]
1700-1730 6050cy 9635ra 11925ra	1000-1500 7320ra
2100-2115 6015cy 7255ra 9810cy	1100-1300 9410ra

**Transmitters:**

an = Antigua	dh = Dhabbaya	na = Nakham Sawan	sk = Skelton
as = Ascension	gr = Greenville	ok = Okeechobee	sn = Singapore
au = Austria	ir = Irkutsk	om = A'Seela, Oman	ta = Tashkent
bi = Biblis	la = Lampertheim	ra = Rampisham	vl = Vladivostok
cy = Cyprus	km = Kimjae	sa = Sackville	wo = Woofferton
de = Delanao	me = Meyerton	se = Seychelles	ya = Yamata
	mo = Moscow		

(via WB, re-arranged from spreadsheet by Alan Roe - WDXC-U.K., 2003 Oct 9)

London-based SW **Radio Africa**, which broadcasts on shortwave to Zimbabwe daily at 1600-1900 UTC, advises that from 26 October it will be using its "summer" frequency of 6145 kHz instead of the current 4880 kHz. The station uses a transmitter in South Africa. (© Radio Netherlands Media Network 1 October 2003, via JKB)

**USA:** Schedule of **Adventist World Radio - AWR** valid period B03 (26 October 2003 to 28 March 2004). Address: 12501 Newbold Columbia Pike, Silver Spring, MD 20904-6600, USA.

LANGUAGE	UTC	kHz	STATION
NW Africa:			
Arabic	0600-0630	9840	Juelich, Germany
Arabic	1900-1930	11845	Juelich, Germany
Dyula	0730-0800	17820	Moosbrunn, Austria
Dyula	2000-2030	11935	Moosbrunn, Austria
English	0830-0930	17670	Moosbrunn, Austria
English	2100-2200	9660	Moosbrunn, Austria
English	0630-0700	9840	Juelich, Germany (Mo-Th, Sa)
English	1930-2000	11845	Juelich, Germany (Mo-Th, Sa)
French	0700-0730	9840	Juelich, Germany
French	0800-0830	17820	Moosbrunn, Austria
French	2030-2100	11935	Moosbrunn, Austria
French	2000-2030	11845	Juelich, Germany
Tachelhit	0630-0700	9840	Juelich, Germany (Su, Fr)
Tachelhit	1930-2000	11845	Juelich, Germany (Su, Fr)
SW, C, N Africa:			
Arabic	0600-0700	11670	Moosbrunn, Austria
Arabic	1900-2000	12025	Moosbrunn, Austria
English	0500-0530	5960	Meyerton, South Africa
English	0530-0630	15345	Meyerton, South Africa
English	1800-1830	5960	Meyerton, South Africa

English	2000-2100	15295	Meyerton, South Africa
French	0430-0500	11945	Meyerton, South Africa
French	2000-2030	12105	Meyerton, South Africa
French	2000-2030	15365	Meyerton, South Africa
Hausa	0600-0630	15225	Meyerton, South Africa
Hausa	1930-2000	15255	Meyerton, South Africa
Igbo	0530-0600	15225	Meyerton, South Africa
Igbo	1930-2000	15365	Meyerton, South Africa
Yoruba	0500-0530	11970	Meyerton, South Africa
Yoruba	2030-2100	12105	Meyerton, South Africa
E, NE, SE Africa:			
Afar	1700-1730	15520	Abu Dhabi, UAE
Amharic	0300-0330	11975	Abu Dhabi, UAE
Amharic	1700-1730	17595	Abu Dhabi, UAE
Arabic	0500-0600	11905	Moosbrunn, Austria
Arabic	1800-1900	11865	Moosbrunn, Austria
English	0500-0530	6015	Meyerton, South Africa
English	0600-0630	15345	Meyerton, South Africa
English	1800-1830	7265	Meyerton, South Africa
English	1800-1900	11985	Meyerton, South Africa
English	2000-2100	15295	Meyerton, South Africa
French	2000-2030	15365	Meyerton, South Africa
Malagasy	0230-0330	3215	Talata, Madagascar
Malagasy	1530-1630	3215	Talata, Madagascar
Masaai	1730-1800	12130	Meyerton, South Africa
Oromo	0300-0330	9650	Moosbrunn, Austria
Oromo	1730-1800	15520	Abu Dhabi, UAE
Somali	0330-0400	12015	Abu Dhabi, UAE
Somali	1630-1700	17595	Abu Dhabi, UAE
Swahili	0330-0400	11975	Abu Dhabi, UAE
Swahili	1700-1730	12130	Meyerton, South Africa
Tigrinya	0300-0330	11945	Abu Dhabi, UAE
Tigrinya	1730-1800	17595	Abu Dhabi, UAE
Carib., C America:			
Spanish	2300-0100	6165	Bonaire [loc. info by Bob Padula]
N, C Europe:			
English	0830-0900	9660	Moosbrunn, Austria
German	0800-0830	7235	Moosbrunn, Austria
German	1600-1630	7235	Moosbrunn, Austria
S Europe:			
Bulgarian	0500-0600	6095	Juelich, Germany
Bulgarian	1800-1900	5840	Juelich, Germany
Italian	1000-1100	11730	Juelich, Germany (Sat/Sun)
Romanian	1730-1800	5840	Juelich, Germany
SW Middle East:			
Arabic	0500-0600	11905	Moosbrunn, Austria
Arabic	1800-1900	11685	Moosbrunn, Austria
E Middle East:			
Arabic	0400-0500	9875	Moosbrunn, Austria
English	1700-1730	11560	Agat, Guam
English	1730-1800	9385	Agat, Guam
Farsi	0230-0300	11945	Abu Dhabi, UAE
Farsi	0330-0400	9740	Moosbrunn, Austria
Farsi	1630-1700	11905	Moosbrunn, Austria
Filipino	1700-1730	9385	Agat, Guam
Filipino	1730-1800	11560	Agat, Guam
Hindi	1700-1730	11675	Agat, Guam
Tamil	1730-1800	11675	Agat, Guam
C Asia:			
English	1330-1400	9860	Abu Dhabi, UAE
Mandarin	1300-1500	15385	Abu Dhabi, UAE
Russian	1300-1330	9860	Abu Dhabi, UAE
N Southern Asia:			
English	0200-0230	7230	Moosbrunn, Austria
English	1330-1400	15235	Abu Dhabi, UAE
English	1530-1600	15225	Abu Dhabi, UAE
English	1600-1700	15495	Agat, Guam
English	1630-1700	11980	Agat, Guam
Farsi	0230-0300	11945	Abu Dhabi, UAE
Hindi	1530-1600	15245	Agat, Guam
Hindi	1530-1600	15215	Abu Dhabi, UAE
Nepali	1500-1530	15225	Abu Dhabi, UAE
Punjabi	1500-1530	15215	Abu Dhabi, UAE
Punjabi	1500-1530	15245	Agat, Guam
Urdu	0230-0300	7230	Moosbrunn, Austria
Urdu	1400-1500	15225	Abu Dhabi, UAE
Urdu	1600-1630	11980	Agat, Guam
S Southern Asia:			
Assamese	1330-1400	15660	Agat, Guam (Su, We)
Bangla	1230-1300	15135	Abu Dhabi, UAE
Bangla	1300-1330	15660	Agat, Guam
English	1330-1400	15660	Agat, Guam (Mo, Tu, Th, Sa)
English	1200-1230	15135	Abu Dhabi, UAE
English	1600-1700	15495	Agat, Guam
Hindi	1530-1600	15245	Agat, Guam
Kannada	1530-1600	17515	Agat, Guam
Malayalam	1530-1600	11985	Agat, Guam
Marathi	1530-1600	11675	Agat, Guam
Mizo	1500-1530	11675	Agat, Guam
Sinhala	1400-1430	15660	Agat, Guam
Tamil	1500-1530	11985	Agat, Guam
Telugu	1500-1530	17515	Agat, Guam
Urdu	1600-1630	11980	Agat, Guam
N North-East Asia (Japan, Korea):			
English	1330-1400	11755	Agat, Guam
English	2130-2200	11980	Agat, Guam
English	2130-2200	12010	Agat, Guam (Mo, Tu, Th, Sa)
Japanese	1300-1330	11755	
		11980	Agat, Guam
Japanese	2100-2130	11980	
		12010	Agat, Guam
Korean	1200-1300	9780	Agat, Guam
Korean	2000-2100	6195	
		6045	Agat, Guam
Mandarin	1100-1200	11900	Agat, Guam
Mandarin	2200-2300	11685	Agat, Guam
Mandarin	2300-0000	11700	Agat, Guam
C North-East Asia (China):			
English	1000-1100	11900	Agat, Guam
Mandarin	0000-0200	17880	Agat, Guam
Mandarin	1100-1500	15725	Agat, Guam
Mandarin	1000-1100	15430	Agat, Guam
Mandarin	2100-2200	11795	Agat, Guam
Mandarin	2200-0000	17880	Agat, Guam
Mongolian	2130-2200	11960	Agat, Guam (Su, We)
SW North-East Asia (China):			
Mandarin	0100-0200	17635	Agat, Guam
Mandarin	1000-1100	15260	Agat, Guam
Mandarin	1100-1300	11660	Agat, Guam
Mandarin	1200-1300	15225	Agat, Guam
Mandarin	1400-1500	11800	Agat, Guam
Mandarin	2100-2200	11845	Agat, Guam
Mandarin	2300-0000	11850	Agat, Guam
N South-East Asia:			
Bangla	1300-1330	15660	Agat, Guam
Burmese	0000-0030	17635	Agat, Guam
Burmese	1400-1430	11940	Agat, Guam
Chin	1430-1500	11940	Agat, Guam
Karen	0030-0100	17635	Agat, Guam
Karen	1430-1500	15660	Agat, Guam
C South-East Asia:			
English	1000-1030	11705	Agat, Guam
Filipino	1030-1100	11705	Agat, Guam
Indonesian	1100-1130	15260	Agat, Guam
Indonesian	2200-2230	11850	
		15320	Agat, Guam
Javanese	1130-1200	15260	Agat, Guam
Javanese	2230-2300	11850	
		15320	Agat, Guam
Khmer	1330-1400	11850	Agat, Guam
Vietnamese	0100-0200	15445	Taiwan (Sa)
Vietnamese	1400-1500	15550	Taiwan
Vietnamese	2300-0000	15320	Agat, Guam
Vietnamese	2300-0000	15445	Taiwan

(AWR website last-updated 7 Oct 2003, via JKB)

Adventist World Radio transmitter sites at past and present, least and owned:

Country	Location	kW	Began	Closed
Portugal	Sines	250	1971	1992
Sri Lanka	Ekala	10, 35, 100	1975	1987
Malta	Cyclops	250	1979	1984
Andorra	Andorra	10	1979	1981
Guatemala	Guatemala City	10	1979	in use
Gabon	Moyabi	500	1983	1994
Italy	Forli	2.5	1985	in use
Costa Rica	Alajuela	5, 50	1986	1992
Guam	Agat	100	1987	in use
Costa Rica	Cahuita	20, 50	1991	in use
Russia	Novosibirsk	100	1992	1994
Russia	Samara	250	1992	1996
Russia	Ekaterinburg	100	1992	1994
Russia	Taldom	250	1992	1994
Russia	Kuroskaya	250	1992	1994
Slovakia	Rimavska Sobota	250	1994	in use
Slovakia	Velke Kostolany	100	1994	1996
Germany	Juelich	100	1996	in use

(from a AWR reception report form, via WWDXC-HQ, Oct 2003)

**Global Catholic Radio - WEWN** frequency guide B03 effective - October 26, 2003-March 28, 2004. WEWN is a privately-owned Catholic radio station, operated by the Eternal Word TV Network (EWTN). Station began broadcasting on 28th December 1992. Email Contact Glen Tapley, Frequency Manager, <gtapley@ewtn.com>. Postal Address: 5817 Old Leeds Road Irondale, AL. 35210, USA.

<u>North America</u>	<u>Latin America</u>	<u>Europe/Africa</u>	<u>UTC</u>
<u>English</u>	<u>Spanish</u>	<u>English</u>	
5825	9355/13615	* 5825	0000
5825	9355/13615	* 5825	0100
5825	9355/13615	* 5825	0200
5825	7425/13615	* 5825	0300
5825	7425/13615	* 5825	0400
5825	7425/13615	7570	0500
5825	7425/13615	7570	0600
5825	7425/13615	7570	0700
5825	7425/11875	OFF AIR	0800
5825	7425/11875	OFF AIR	0900
5825	7425/11875	OFF AIR	1000
5825	7425/11875	OFF AIR	1100
5825	7425/11875	OFF AIR	1200
9955	9355/15745	OFF AIR	1300
9955	9355/15745	OFF AIR	1400
9955	9355/15745	OFF AIR	1500
13615	11530/15745	17635	1600
13615	11530/15745	17635	1700
13615	11530/15745	15440	1800
13615	11530/15745	15440	1900
13615	11530/15745	17595	2000
13615	11530/15745	17595	2100
9975	11530/13615	17595	2200

\*= Secondary coverage to Europe during this time - Signal strength is marginal.

(W. Glen Tapley - Affiliate Engineering Manager via HJB, 4 Oct 2003)

**Radio Sawa**, the US Government-funded Arabic language service, is the leading international broadcaster in all Middle Eastern countries surveyed, according to an AC

Nielsen survey released last week. The survey, conducted in five countries in July and August 2003, showed that Radio Sawa has an average listenership of 31.6 percent among the general population 15 years and older. Listener ratings in five countries were: Egypt 10.6 percent; Jordan, 30.4 percent; Kuwait, 39.5 percent; Qatar, 40.8 percent and UAE 36.6 percent. (BBG press release via © Radio Netherlands Media Network 29 September 2003, via JKB)

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BC-DX News Bulletin by Wolfgang W. Bueschel - Germany.  
 BCLNEWS.IT BCLNEWS.IT - Palermo, Italy.  
 BP Bob Padula - Australia.  
 CONEXION CONEXION Digital - Buenos Aires, Argentina.  
 GIB Gabriel Ivan Barrera - Argentina.  
 HJB Dr. Hansjoerg Biener, Amberg - Germany.  
 JKB Dr. Juergen Kubiak, Berlin - Germany.  
 RNMN R. Netherlands Media Network ©.  
 WB Wolfgang W. Bueschel, Stuttgart - Germany.  
 WWDXC-HQ WWDXC Headquarter, Michael Bethge - Germany.

## Abbreviations:

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

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

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# DX LOGBOOK

## Logs around the clock

by Ashok Kumar Bose, Apt. #421, 3420 Morning Star Drive, Mississauga, ON, L4T 1X9, Canada  
E-Mail: logbook@wwdxc.de

### LONG & MEDIUMWAVE BANDS

Frequ.	UTC	SIO	ITU	Radio Station	Language	Programme Details	Date	Rep.
531.0	0603	342	FAR	Utvarp Foroya	Farose	Program	0610	HS
693.0	1910	343	G	BBC Radio 5	English	Political Comments	0410	HS
711.0	1914	343	LBY	LJB	Arabic	Anns. Folklore	0410	HS
846.0	1853	454	I	RAI Due	Italian	Anns., ID	1409	HS
891.0	1858	243	ALG	RTA,Algiers	Arabic	Anns, Gesang	1409	HS
990.0	1905	243	I	RAI Radio Due	Italian	Football commentary	1409	HS
1026.0	1912	243	E	SER	Spanish	Football Valencia	1409	HS
1062.0	1916	444	DNK	Danmark Radio 3	Danish	Anns., Music	1409	HS
1080.0	1920	243	E	SER Coruna	Spanish	Football,ID	1409	HS
1458.0	0609	444	G	Sunrise Radio,London	English	Anns, Advt., Song	0610	HS
1500.0	0525	232	USA	WTOP, Washington	English	Talks	0610	HS
1510.0	0410	232	USA	WWZN, Boston	English	News, Rede	0610	HS
1584.0	0631	232	E	SER	Spanish	Anns.,	0610	HS
1584.0	0615	242	I	RAI R. Studio X or Radio San Luchino	Italian	Comments, Parliament, Mx & ID	0610	HS
1650.0	0438	243	USA	WHKT, Portsmouth	English	Radio Disney, ID, Songs	0610	HS
1690.0	0425	232	USA	WPTX,Lexington Park	English	Anns, Talks,ID and News	0610	HS

### TROPICAL BANDS

Frequ.	UTC	SIO	ITU	Radio Station	Language	Programme Details	Date	Rep.
3200.0	1724	233	SWZ	TWR,Swaziland	English	Talks, Announcements	0710	HS
3240.0	0316	322	SWZ	TWR,Swaziland	Shona	Religious talks	1709	RAD
3249.5	0320	322	HND	Radio Luz y Vida	Spanish	ID,Religious talks	2009	RAD
3255.0	1910	233	AFS	BBC World Service via Meyerton	English	News	0510	HS
3291.0	0324	222	GUY	Voice of Guyana	English	Religious program	2209	RAD
3340.0	0251	222	HND	Radio Misiones Internacionales	Spanish	ID,Musical Program	0509	RAD
3915.0	1737	233	SNG	BBC,Kranji	English	Political Comments	0410	HS
4765.0	1816	343	COG	Radio Congo Brazzaville	French	Comments	0110	HS
4790.0	0218	322	PRU	Radio Atlantida	Spanish	Ann,ID,vocal selection	1809	RAD
4799.8	0223	222	GTM	Radio Buenas Nuevas	Spanish	ID,Religious vocals	2909	RAD
4800.0	0320	332	LSO	Radio Lesotho	Sesotho	Music,Talk,ID	0209	RAD
4810.0	0050	322	MEX	XERTA	Spanish	Mexican vocals and iD	1709	RAD
4830.0	0346	233	VEN	Radio Tachira	Spanish	Colomboia, Music, Anns., & ID	0610	HS
4875.0	0239	222	B	Radio Difusora Roraima	Portugese	Pop vocals	2909	RAD
4890.0	1100	221	PNG	NBC,Port Moresby	English	News and iD	0909	RAD
4915.0	2212	222	GHA	Radio Ghana	English	ID ,News,music program	2209	RAD
4915.0	0115	222	B	Radio Difusora Macapa	Portugese	Sports commentary	3009	RAD

4925.0	0138	322	B	Radio Educacao Rural de Tefe	Portugese	Pop vocals,Talks,ID	2908	RAD
4945.0	2347	322	B	Emissora Rural	Portugese	Pop vocals,ballads,ID's	2009	RAD
4950.0	1722	233	UZB	Radio Tashkent	Vernaculars	Folklore, Anns.,	3009	HS
4965.0	1718	243	ZMB	Christian Voice	English	Religious Program,ID	3009	HS
4965.0	1554	243	RUS	Voice of Russia	English	Anns. News	0210	HS
4976.0	1714	233	UGA	Radio Uganda	English	News	3009	HS
5026.0	1733	333	UGA	Radio Uganda	English	Folklore	0410	HS
5030.0	2234	322	BFA	RDTV Burkina	French	Pop 7 Rap tunes with talks	2508	RAD
5040.0	1731	233	IND	AIR, Jeypore	Oriya	Indian Music	0410	HS
5045.0	2342	333	B	Radio Guaruja Paulista	Portugese	Talks,ID's and Braz. pop vocals	2209	RAD

## SHORTWAVE BANDS

Frequ.	UTC	SIO	ITU	Radio Station	Language	Programme Details	Date	Rep.
5678.0	0150	222	PRU	Radio Ilucan	Spanish	Rustic vocals,canned ID and s/off	2708	RAD
5915.0	2040	322	ISR	Reshet Delet of KOL Israel	Arabic	ID,Music	0609	MF
5920.0	0317	333	USA	KAIJ	English	We are all children of God	0909	MF
5925.0	0340	222	USA	WBOH	English	Program on Israel & Palestine	0809	MF
5930.0	0126	553	SVK	Radio Slovakia Intl.,	English	Calling Listeners	0109	RL
5955.0	1400	444	CLN	VOA	English	News	2208	MDS
5975.0	1430	333	THA	BBC	English	News	2208	MDS
5985.0	1515	323	BRM	Radio Myanmar	English	News	1009	MDS
6010.1	0539	233	CLM	La Voz tu Conciencia	Spanish	Comments and iD	0610	HS
6065.0	0340	433	ZMB	Christian Voice	English	ID & Gospel	0909	MF
6130.0	2230	222	RUSD	Radio Tartarstan	Russian	Music,ID	1409	MF
6160.0	1620	232	PHL	VOA	English	Political Comments, ID	0210	HS
6174.9	2020	232	NMB	NBC,Namibia	English	News,Comments and ID	0110	HS
6175.0	0140	333	VTN	Radio Vietnam	Vietnamese	Program	1509	MF
6185.0	1910	544	G	Radio Taiwan Intl., via Skelton	German	Program,ID and music	2109	WB
6190.0	2339	222	D	Deutschlandfunk	German	Talks & Jazz instrumentals	1109	RAD
6275.0	1053	244	HOL	R.Grenslander	Dutch	Program,ID	0510	HS
6291.0	1056	344	HOL	R.Grensjager	Dutch	Music and Anns.	0510	HS
6296.8	1100	243	HOL	Zender Digital	Dutch	Anns, ID	0510	HS
7100.0	0327	222	ERI	Voice of the Broad Masses of Eritrea	Tigrigna	ID,News of Asmara	1010	RAD
7135.0	2335	332	MRC	RTV Morocaine	Arabic	Vocals,instrumentals and ID	3108	RAD
7210.3	2235	322	BEN	Radio TV Benin	French	Pop tunes	2508	RAD
7305.0	0300	433	CVA	Radio Vatican	English	Ask the Abot	1209	RL
7315.0	0400	222	USA	WHRI	English	Angels & God	1009	MF
7345.0	0107	453	CZE	Radio Prague	English	One on One, Female Footb.referee	0709	RL
7385.0	0242	453	USA	WRMI	English	Viva Miami, Mexican SW Dxers	0709	RL
7445.0	0656	353	CTR	RFPI	English	Continent of Media	3108	RL
7540.0	1540	343	TJK	RFA,Dushanbe	Mandarin	Program	2009	WB
9400.0	2255	453	BUL	Radio Bulgaria	English	History Club	1009	RL
9420.0	0358	553	GRC	Voice of Greece	English	Program anthem	0409	RL
9440.0	0018	543	CZE	Radio Prague	English	Talking Point	0909	RL
9520.0	1800	222	MRA	AWR	English	ID,Music, Jesus our God	2709	MF
9570.0	0240	543	HUN	Radio Budapest	English	Hungary Today	1209	RL
9590.0	0126	543	HUN	Radio Budapest	English	Hungary Today,DX Corner	1309	RL
9650.0	0318	553	TUR	Voice of Turkey	English	DX Corner	0709	RL
9770.0	0030	222	CLN	SLBC	English	ID followed by News	0309	RAD
9780.4	1820	232	YEM	Radio Yemen, Saana	Vernaculars	Talks,Music, Comments	0110	HS
9860.0	2203	332	GAB	Evangelische Missions	German	Choir followed by Religious talks	1009	RAD
9870.0	2358	433	AUS	Radio Austria Intl.,	English	Report from Austria	1009	RL

9875.0	2334	543	LTU	Radio Vilinius	English	Present day school music	0709	RL
9885.0	2345	433	SUI	Swiss Radio Intl.,	English	Swiss Info	0809	RL
11560.0	1600	344	GUM	AWR,Guam	English	ID,DX Program	0510	HS
11560.0	1358	555	TWN	WYFR via Taiwan relay	English	Religious Program	3008	MDS
11645.0	1900	332	CHN	Radio France Intl.,	French	ID,Sports	2709	MF
11655.0	1900	222	MDG	Radio Nederland	English	ID,Africa Policy by EU	2009	MF
11665.0	0355	322	RUS	Voice of Tartarstan via Samara	Tartar	IS,ID,Instrumental music	0809	RAD
11765.0	2246	243	B	Radio Tupi	Portugese	Talks,Brasil	0210	HS
11800.0	0055	453	I	RAI	English	Newscast	0909	RL
11920.0	0145	323	IRN	IRIB,Teheran	English	Frequency List	1409	MDS
11930.0	1000	555	GUM	AWR via KSDA	English	Wavescan	1409	MDS
11955.0	0020	222	THA	BBC World Service via Nakhon Sawan	English	ID,News & asian issues	2608	RAD
11975.0	1630	322	GUM	AWR Agat	English	Wavescan Edition 456	2809	AKB
12060.0	1900	555	RUS	Voice of Malta	English	ID,Anns., Songs	0110	HS
13635.0	1200	433	AUS	Voice International	Hindi	Weather Report & Songs	0410	AKB
13665.0	1545	244	AUS	Voice Intl.,	English	Political Comments,ID,Song	0510	HS
15065.0	1755	222	PAK	Radio Pakistan	Urdu	Talk,ID and News	2009	RAD
15149.8	1930	222	INS	Voice of Indonesia,Jakarta	French	Program & Indonesian Music	2109	WB
15195.0	2015	333	ASC	WYFR	English	Jesus comes again	2709	MF
15235.0	1602	243	GUM	AWR,Guam	English	ID,DX Program	0510	HS
15235.0	1300	333	GRC	Radio Liberty	English	ID	2208	MDS
15330.0	1445	444	GUM	KTWR,Agana,Guam	English	Family Bible Hour	2809	AKB
15385.0	0027	453	E	Radio Exterior de Espana	English	Lapnotes & Fieldnotes	3108	RL
15390.0	1300	433	AUS	HCJB,Voice of the Great Southlands	English	Songs,Religious Program	0410	AKB
15476.0	2028	243	ATA	Radio Nacional Arcangel	Spanish	Music,Anns.	3009	HS
15510.0	0200	434	CHN	Radio Canada Intl.,	English	Business Report	1409	MDS
15545.0	1900	333	G	HDL,Woofferton	English	Merlin Test transm. to West Africa	2109	WB
15555.0	1935	555	POR	RDP,Lisbon	Portugese	Football commentary Benfica	2109	WB
15565.0	2253	453	ATN	Radio Vlaanderen Intl.,	English	Radio World CD Tourism Brussels	0709	RL
15590.0	1240	433	D	Gospel for Asia	Oriya	Atmic Yatra Program	0410	AKB
15595.0	1616	453	CVA	Vatican Radio	English	World News	1209	RL
15820.0	1525	243	ARG	Radio Continental	Spanish	News, Music, Anns., ID	0110	HS
17675.0	0325	453	NZL	Radio New Zealand	English	Mailbox Program	2808	RL
17705.0	1428	322	D	Radio Kompanya Golos Rossii	Russian	Pop Vocals & News	3008	RAD
17770.0	1510	443	AFS	Channel Africa	English	News about Zimbabwe	2809	AKB
17775.0	1220	322	UZB	Radio Tashkent	English	Mailbag	0410	AKB
17780.0	0600	434	MRA	KWHR	English	Dxing with Cumbre	1309	MDS
17800.0	2158	244	NIG	Voice of Nigeria	English	Anns., ID,News	0110	HS
17860.0	0217	444	CHN	RCl via Xian	English	Homosexual community in Canada	3008	MDS
21780.0	1215	444	AUT	Radio Austria Intl.	English	Insight Central Europe	0410	AKB

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

AKB : Ashok Kumar Bose at Kolkata India. SONY ICF SW 7600 G with Telescopic antenna

HS : Horst K. Schmidt, Oberursel, Germany. McKay Dymek DA6 with inverted V , 20/30 metres long Wire & Sloop.

MDS : Malinda da Silva, Pannipitiya, Sri Lanka.

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

RAD : Richard A. D'Angelo, Wyomissing, USA. Drake R-8B with very long wires & Datong FL3

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

WB : Wolfgang Bueschel, Stuttgart, Germany. AOR AR 7030, SONY ICF 2010, Kenwood R-1000, Drake SPR-4 with 12 metres long wire

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Dear Friends,

Welcome to the October issue of Logbook for 2003.

This month we have contributions from ours Club members only. Welcome back Richard Lemke who has reactivated with his loggings as promised after his summer sojourn . I have included in this Logbook the stations logged by me during my vacation to my native place Kolkata, India. Keep up the good work..

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

*Ashok Kumar Bose*

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## **EDXC CONFERENCE 2003 IN KÖNIGSTEIN by Anker Petersen**

*We already had a brief official report from the EDCX Conference in Königstein by Luigi Cobisi in DX MAGAZINE 8/9. Below please find now Anker Petersen's report:*

About 70 DX-ers, Broadcasters and DRM-specialists from 15 countries in Europe, North America and Asia did attend the 37th annual Conference of the European DX Council at the Dresdner Bank Kommunikations-und Trainings-Center outside the 750 year-old German city of Königstein near Frankfurt am Main.

This quiet beauty of scenery was the ideal venue for a Conference which had "DXing in the digital future" as its theme. It was very well organized by the local Rhein-Main-Radio-Club in co-operation with the other main DX-Clubs of Germany.

The Conference was officially opened Friday Aug 15 at 1400 by Dr. Harald Gabler (RMRC), Luigi Cobisi (EDXC Secretary General) and a representative from the Government of Hessen. Furthermore introduction by Dr. Anthon Kuchelmeister (AGDX), Hans van der Remme (ADDX) and a representative from one of the sponsoring firms, Rohde & Schwarz.

2003 is the year of the inaugural broadcasts using the new Digital Radio Mondiale (DRM) modulation technology and we heard high level lectures about this by Professor, Dr. Ing. Wolfgang Skupin (University of Applied Sciences), Mr. Michael Knietzsch (Thales Broadcast & Multimedia GmbH) and Mr. Stephan Meltzer (Coding Tec.) covering the theory, DRM transmitters and DRM receivers.

The situation right now is that worldwide standards have been accepted and the first transmitters are broadcasting DRM now. The target is to improve AM on SW and MW, but not to replace FM and DAB. Later on we heard some of these tests on short wave from J<sup>3</sup>lich, Rampisham, Bonaire and Sackville on two DRM-receivers and the quality was impressive: Like FM and close to CD quality! But we also experienced that the signals dropped completely off, if the signal strength was too weak or there were bad propagation conditions or severe disturbances from adjacent AM broadcasts! It is either perfect reception or no reception at all. It was admitted that the protests from DX-ers on the wide spectrum noise QRM during the first DRM field tests have forced the engineers to keep the transmitter bandwidths within 10 kHz.



DRM receivers are still being developed. The first prototype, sized like a Sony ICF 2001, did cost about 1000 Euro, and the second generation, smaller than a Sangean ATS909, did cost around 700 Euro. When mass production starts in 2004 and 2005, the prices are expected to become lower.

Wolf Harranth (Ex ORF) then held a provocative and disillusioned causerie about the Rise and Fall of the Wireless Empire; Looking into the crystal ball: Brave New Virtual World? and the role of the listeners: The Unimportance of Being Earnest. DRM is excellent, but comes too late. SW is not dead! Many international broadcasters have disappeared, but that leaves more free channels for DX of small stations.

Then followed the traditional Broadcasters Forum with representatives from Deutsche Welle (Waldemar Krämer), HCJB (DX-Editor Hans Werner Lange, ADDX), IBB (Arto Mujunen), AWR (Dr. Adrian M. Peterson), RVI (Frans Vossen) and ORF (Wolf Harranth). Of particular interest was that the IBB now has 60 automated monitoring systems and about 50 human monitors to check reception of the VOA, RFE/R Liberty, RFA etc.

DRM will not replace analogue listening for many years in the developing countries.

There are four huge collections of Broadcast QSLs in the world initiated by:

1. The late Arthur Cushen. It can now be seen at a public library in Invercargill, New Zealand.
2. Wolf Harranth: Research and Documentation Center for the History of Radio Communication and the Electronic Media, in Vienna, Austria.
3. Jerry Berg, Connecticut, U.S.A. [CPRV, supposedly at Univ. of Md.]
4. Adrian Peterson, Indianapolis, U.S.A. He has about 35,000 QSLs and showed us several being more than 50 years old.

Before an informal dinner party, Andreas Schmid had organized a Pennant Quiz where Stig Hartvig Nielsen became the winner with 32 out of 33 correct answers.

The first lecture Saturday morning was by Siegbert Gerhard about the complicated History of German DX Clubs. After that Toshi Ohtake gave his lecture about 50 year history of DX in Japan - which some have heard in Vejers or Kulpsville. Toshi is now editor of a new DX-programme in English via AWR.

Stig Hartvig Nielsen then told us about the history and future plans of the World Music Radio - the private station from 1963 that refuses to die and which he now is in charge of. The Danish PTT has authorized the use of 15810 kHz and is expected also to permit the use of a 49 mb frequency soon. A 400 watts transmitter in the central Jutland village of Ilskov will be used initially, but two 10 kW transmitters are expected ready from Nov 2003. 24 hours of broadcasts, 7 days a week, of contemporary and world music are planned for a global, international audience. In the future it is expected that WMR will also be live stream on World Wide Web, on FM around Aarhus, on Satellite, MW and Cable to 700,000 houses.

This was followed by a talk by Christopher Laske from the Fraunhofer Institute about their development of a low cost 10 watts DRM transmitter and a low cost (65 Euro) pretuned DRM receiver for the students at Erlangen University.

After lunch, Alois Krischke, retired engineer from Rohde & Schwarz and editor of "SW Antennas", gave a very detailed review of Transmitting and Receiving Antennas.

Udo Deutscher introduced us to a new kind of DX-ing: Scanning of the TV Video frequency spectrum and identify the TV carriers. He demonstrated the carrier noise from local TV stations. Only a dozen of DX-ers worldwide enjoy this special hobby so far.

Anker Petersen then analysed the down going number of stations on the Tropical Bands from 1973 till 2003 which now is reduced to one third. The stations have disappeared mostly because of replacement by FM, low technical standard or poor economy. If the trend continues, the last stations will disappear in 2014.

Dr. Adrian M. Peterson followed with a Wandering the World with a Radio, telling about his early experiences of DX-ing while working for AWR in Australia, Pakistan and Sri Lanka. Adrian is still writing articles for "Wavescan" from Indianapolis, but the DX-programme is edited in the UK by young Christopher Lewis who also attended the Conference, and broadcast worldwide.

Andrew Janitschek, Operations Manager of R Free Asia in Washington then gave an update of their broadcasts which have been increased towards North Korea. He officially inaugurated their first QSL cards. Reports to RFA, ATTN. Ms. Iwanciw, 2025 M. Street, NW, Suite 300, Washington; e-mail: iwanciwt@rfa.org

After the traditional EDXC Banquet, a Tombola was held where everyone won prizes --- mostly presents about the 50 years of Deutsche Welle. The first prize --- a Spacereceiver - was won by Valerio Cavallo. Three EDXC Awards for excellent DX-lifework --- handmade by Mr. Alfred Becker --- were given to Wolf Harrant, Waldemar Krämer and Anker Petersen --- a great honour! Sunday morning began with a Flea Market at the lobby and a video film --- in German --- from the inauguration of the new Radiohouse of Deutsche Welle in Bonn.

Waldemar Krämer from DW then talked about the role of listeners in frequency planning. Scientific calculations on propagation of shortwave transmissions are always theoretical predictions, and the DX-er or technical monitors may find out that the real world is different. Therefore reception reports cannot be rated highly enough for analog, but also for future DRM transmissions!

Former DJ "Roger Kirk" who was well-known in the 1960s and 1970s at such pirate and later private stations as Pyrgos Broadcasting, R Northsea International, R Galaxy, R Time and R Victoria, gave a controversial talk about the "End of Private Radio?". His message was that the Era of these stations is more or less over, but they did succeed in changing the format of even State-run broadcasters to fluent announcing with jingles and playing the kind of music, the listeners want to hear.

Wolf Harrant then gave some more information about the "Research and Documentation Center for the History of Radio Communication and the Electronic Media", in Vienna, Austria. It was formerly just called the "QSL Collection", but now it has much more than QSLs from broadcasting stations and radio amateurs. Also Club publications, logbooks, WRTH`s and even recordings from radio broadcasts. More details can be read on <<http://www.qsl.at>>. Nowadays, its four million objects are stored in a large building where visitors can study the history of broadcasting and DX-ing. Wolf Harrant stressed that for historical reasons it is very important that private QSL-collections and Club publications are sent to this Center when they are no longer needed. The Center is officially registered as an international organization.

The final point on the agenda was the report from the Secretary General of the EDXC. Luigi Cobisi found that the hobby of DXing is still very much alive, but there are some problems:

1. Some Clubs may not be really organized.
2. Some Clubs are going down in membership.
3. Some Clubs have left the EDXC.

The EDXC represents 15 DX-Clubs in 17 European countries with a total of about 5,000 DX-ers. But the EDXC work is based on voluntary work and the annual budget is less than 700 Euros.

The Secretary General then mentioned the well visited EDXC Portal on the internet, his monthly newsletters by mail, e-mail, on the website and via HCJB, and now also via the Voice of the Mediterranean in Malta. These broadcasts are verified by QSL. His visits to various Clubs, like the DSWCI AGM in Vajers in May were also mentioned. The DSWCI is regarded as one of the non-British DX-Clubs in Europe which first realised that English is THE international language for DX-ers.

According to the present Statutes of the EDXC "A Dixer from any Member [Club] of the Council shall be elected Secretary General or Assistant Secretary General for a period of three years only." Luigi Cobisi and his assistant Paolo Morandotti have been leading the EDXC since January 01, 2001, so the member clubs were invited to present candidates this autumn, and then a voting will take place.

During his period as Secretary General, Luigi Cobisi has met about 650 DX-ers and Broadcasters which has been very rewarding. It is very important for the Hobby that Conferences are organized regularly, because the personal contacts are invaluable. The next Conference will be on Malta Oct. 24-26, 2003 where the Voice of the Mediterranean is organizing a Conference about Multilingualism and International Radio --- a listeners` and broadcasters` Forum, and has asked the EDXC to support it with the participation of some European DX-ers.

In Pori, Finland, last year there were four offers for future DX Conferences: Germany (just held), Malta (to be held in October), Ireland and Turkey. Unfortunately the options for Conferences in 2004 in Ireland or Turkey

have just been withdrawn for various reasons, so right now there is no EDXC Conference planned for 2004! The Secretary General urged the member clubs as soon as possible to consider organizing a Conference next year, because the new Secretary General cannot arrange it.

The EDXC is the tiniest European organization with a very small budget. Luigi Cobisi argued that in the future, we need lively members, not DX-Clubs, if the EDXC shall survive. His vision is that the EDXC shall consist of interested individuals instead of DX-Clubs as paying members. Today, it is difficult for small Clubs to participate actively in the EDXC activities, because all their energy is used for their publishing DX-bulletins with the same news in their own languages. Some of these clubs would benefit by merging.

Unfortunately these controversial points of view came just before the termination of the EDXC Conference, so the 11 member Clubs present had no chance to discuss it further.

On Monday, Aug 18, nine participants (including four DSWCI members) did visit the Deutsche Welle Receiving Station at Bockhacken northeast of Cologne where Mr. Winking and Mr. Steffen Hilbig gave an excellent briefing about their job of monitoring Deutsche Welle shortwave and TV broadcasts, and other broadcasts as agreed upon. For Shortwave they use several Rohde & Schwarz EK 070 and two NRD 545 DSP receivers connected to a variety of antennas on top of the listening bunker, including direction finding antennas having an accuracy of ½ degree, if the signal is strong enough. Programme monitoring takes place elsewhere. There is only 1-2 persons on duty here at any time.

(Anker Petersen, DSWCI Short Wave News / Aug-Sep 2003 via DXLD)

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## **Internationale Funkausstellung Berlin 2003      von Horst K. Schmidt**

Die Internationale Funkausstellung in Berlin fand vom 29.08. bis 3.9.2003 statt und dauerte zum ersten mal nur sechs Tage. Sie ging nur über ein Wochenende.

Deshalb fand am ersten Tage der IFA 2003 die IFA - Night statt, übrigens zum zweiten mal. Das Programm im Sommergarten war hervorragend und insbesondere die jungen Besuchern gingen begeistert mit.

Anschließend wurde vom Funkturm ein grandioses Feuerwerk gestartet.

Der Sommergarten war bis auf den letzten Platz gefüllt, es schienen aber ansonsten weniger Besucher anwesend zu sein, als bei der letzten IFA - Night. Das tat der Stimmung aber keinen Abbruch.

Möglicherweise drängelten sich dieses mal nicht so viele Besucher auf dem Gelände oberhalb des Sommergartens, sondern suchten einen noch besseren Platz um sich das Feuerwerk anzuschauen.

Die IFA - Night dürfte einen festen Platz auch bei zukünftigen Funkausstellungen haben.

Überhaupt war die Messe dieses mal recht gut besucht. Auch an den Werktagen waren viele Privatbesucher zu verzeichnen.

Offensichtlich besuchten auch viele Schulklassen die IFA, denn es waren bereits in den Morgenstunden recht viele jugendliche Besucher zu sehen.

Am Samstag Abend fand dann ein DX-Treffen im Preußischen Landwirthshaus statt. Dieses Lokal in der unmittelbaren Nähe des Olympiastadions, hat in Hobbykreisen einen sehr guten Ruf erlangt und dient deshalb immer wieder als Tagungsort.

Verschieden Fachvorträge rundeten das Treffen ab. Wolfram Hess referierte über die Einflüsse der Sonne auf die Funkwellenausbreitung, Wolf Harranth über DRM und ROI und last not least der RMRC – AKTUELL- Mitarbeiter Markus Weidner über DRM.

Das Treffen war sehr gut besucht und viele Hobbyfreunde freuten sich, wieder einmal das ein - oder andere Gesicht zu sehen.

Am Sonntag Abend fand dann das legendäre „Hinkelsteintreffen“ statt, das allerdings zum zweiten Mal nicht im Kultlokal „Hinkelstein“ stattfinden konnte, da dies seit längerer Zeit geschlossen ist.

So traf man sich in einem anderen Lokal, das ebenfalls in unmittelbarer Nähe der Messe zu finden ist. Zu diesem Treffen kommen seit je her vor allem Freunde von See- und Piratensendern.

Auch dieses Treffen fand in netter Atmosphäre statt und Erinnerungen wurden aufgefrischt.

Wenngleich die Seesenderzeit lange zurückliegt, strahlen Stationen, wie das legendäre Radio Caroline, noch immer eine gewisse Faszination aus.

Aber auch die heutigen Free Radio Stationen haben viele Freunde und einige Betreiber ließen es sich nicht nehmen, an diesem Treffen teilzunehmen.

Im Technischen Forum der IFA wurde wieder innovative Technik vorgestellt, unter anderem DAB und DRM. Beide Plattformen wollen in Zukunft eng zusammenarbeiten und hoffen, Synergieeffekte nutzen zu können.

Insbesondere im Bezug auf DAB wurden allerdings auch sehr kritische Töne laut, aber auch von DRM sind nicht alle Experten überzeugt.

Die Fa. Codec Technologies stellte zusätzlich zu ihrem bekannten Empfänger einen neuen kleinen DRM-Empfänger vor, der allerdings noch verbesserungswürdig ist.

Man hofft, dass 2004 / 2005 die neuen Chipsätze produziert werden können und man dann in die Serienproduktion von DRM - Empfängern gehen kann.

Nicht zufrieden sind Kenner der Szene mit dem Simulcastverfahren, bei dem auf der gleichen Frequenz Sendungen in AM, als auch in DRM ausgestrahlt werden. Man bemängelt, dass die Codierung in DRM unzureichend ist und in AM Störungen durch DRM entstehen.

Es bleibt spannend und die nächsten Jahre werden zeigen, ob sich DRM und vielleicht sogar DAB durchsetzen können.

DRM könnte die Nase vorn haben, da man besser aus den Startlöchern kam und in relativ kurzer Zeit die technischen Voraussetzungen geschaffen hat.

Im TV-Bereich werden zukünftig wohl die Flachbildschirme in immer mehr Haushalten zu finden sein. Noch ist deren Preis allerdings recht hoch und die Lebensdauer kürzer, als bei den herkömmlichen Bildschirmen.

Auch dieses Mal standen wieder Computer hoch im Kurs. Es war alles vertreten, von der Spieleconsole bis zu hochwertigen Anwendungsmöglichkeiten.

Immer mehr setzt sich auch die digitale Fotografie durch. Auch günstige Kameras machen schon recht gute Bilder. Nach oben sind preislich allerdings keine Grenzen gesetzt.

Im hochpreisigen Segment werden professionelle Systeme angeboten, die auch höchsten Anforderungen gerecht werden und im Profibereich immer mehr eingesetzt werden.

Aber schon für ca. 1000 Euro sind Kameras für Wechselobjektive zu bekommen.

Es war eine IFA, die wohl viele Interessen vereinte. Dank DRM war es auch wieder eine Messe, wo LW- MW- und Kurzwelle einen hohen Stellenwert hatten.

Wenngleich immer weniger Weltempfänger angeboten werden und auch auf dieser Messe nur ganz selten zu finden waren, war es, wie schon vor zwei Jahren, wieder eine Messe die auch für Hobbyfreunde interessant war.

Auf die Frage, was es denn für Hobbyfreunde gab, könnte man sagen, die Kurzwelle der Zukunft. Trotz aller Skepsis ist die Chance groß, dass DRM die Kurzwelle wieder beleben wird.