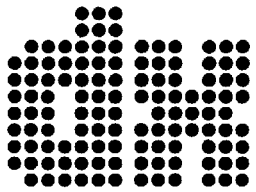


10 - 2002

BBC ORTF  
ADIO MOSKOU  
NDR RAI TVR

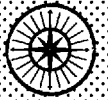
ISSN 0175-6877



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 2003

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

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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.

DX MAGAZINE is the monthly publication of WORLDWIDE DX CLUB, Postfach 12 14, D-61282 Bad Homburg, Germany. Price for a single copy: € 1.28 or 2 International Reply Coupons (IRC's); annual subscription rate: € 15.34 or 15 IRC's. Other currencies and air mail rates on request. Cover: Peter Pohle + Jürgen Kauer (KAVOP)



DX MAGAZINE No. 10

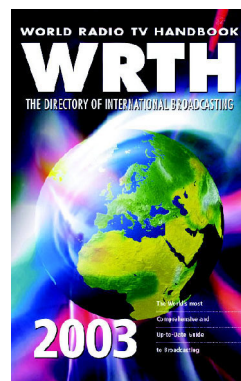
Vol. XXXVII

October 2002

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 2003**, which will be available in Germany in the beginning or mid of December, according to the German general distributor. In this 57th edition for the year 2003 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. Articles on topics of great interest to listeners and DXers alike include: "The Politics of HF Broadcasting", "DRM - the future of short wave?", "Digital Update". Reviews on the following receivers will be included: Ten-Tecs 340 & 350, Sangean ATS818/ Roberts R827, JpyEar Worldspace 2000, Icom IC-7400/746PRO. The book will have approximately 672 pages, including 64 pages in full colour.



Auch in diesem Jahr können Sie das neue **WORLD RADIO TV HANDBOOK 2003** wieder bei uns bestellen. Der Preis liegt nahezu unverändert bei € 26,00 (Ladenverkaufspreis: € 32,00). Die Preise in anderen Währungen finden Sie auf Seite 2. Das Buch soll laut Ankündigung des deutschen Generalimporteurs Anfang 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: Leider müssen wir unsere Mitgliedsbeiträge für das kommende Jahr nach 4 Jahren minimal anheben: 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 2002** is still available from us at € or US\$ 16.00. Full details can be found in DX MAGAZINE 8/9-2002 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) or Arnhem/Netherlands No. 3822840 (IBAN: NL57 PSTB 0003 8228 40).

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 = € 1,53) oder die Scheine Ihren Briefen an ausländische Sender oder Korrespondenzpartner als Rückporto beilegen (normaler Verkaufspreis

bei der Deutschen Post AG = € 1,53). 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 ASIA 2002** will take place this year from December 2nd to 7th at the Hong Kong Convention and Exhibition Centre. As the gateway to mainland China and other parts of Asia, Hong Kong will play a fitting host to the key players coming together to shape the future of the Asia-Pacific telecommunications sector. The ASIA 2002 event will comprise both an Exhibition and Forum. You will have one week to review and demo the thousands of products and services available on the exhibit floor whilst gaining first-hand access to the companies who are on-site to showcase their latest equipment and technologies. You will also be provided with an opportunity to follow the Forum sessions and access the government and industry leaders taking part. (ITU)

Like every year, also the 24th **International Middle-East-DX-Contest** of EAWRC will take place in November (1st to 17th). The Contest consists of five parts with different purposes. Among other things reception reports will be passed on free of charge to all radio stations logged in part 4 of the contest. Again we hope for the promised QSLs, as it was no problem to get detailed QSL from other rarely confirming stations during the last years' contests. All participants will receive a certificate and a special publication with all stations and frequencies listened during the contest. The three best participants will receive prizes, recipients of many other prizes will be decided by drawing lots. The participation is open to all radio enthusiasts, a membership in any DX-club is not required. Curious and you want to take part? Please order immediately the necessary contest-sheet with the detailed description of the contest rules. Your order is without any obligation, of course, but please don't forget to enclose 1 IRC return postage. The address: EAWRC-ME-Contest, c/o Adolf Schwegeler, Bahnhofstr. 56, D-50374 Ertstadt, Germany.

The **A.I.R. Contest Attilio Leoni**, the annual Italian DX contest by Associazione Italiana Radioascolto, will take place from January 3rd to 12th, 2003. For full information, please write to: Bruno Pecolatto, AIR Contest Manager, Casella Postale 1, I-10080 Valprato Soana (TO), Italy (E-mail: <brunopec@eponet.it>).

To celebrate the 10th anniversary of "Pirate News", A.I.R. will conduct a **Pirate Station Contest** concerning exclusively pirate stations, which is open to all listeners. Listening period is from October 31st to November 3rd. Full information is available from: Bruno Pecolatto, Pirate News, Casella Postale 1, I-10080 Valprato Soana (TO), Italy (E-mail: <brunopec@eponet.it>).

Im Mai 2002 erschien im Verlag für Technik und Handwerk GmbH (VTH) der neue Titel **Magnetantennen** (Selbstbau-Loops für Sende- und Empfangsbetrieb) von Hans Nussbaum. Das Buch behandelt umfassend und leicht verständlich die elektrischen und mechanischen Grundlagen und bietet Bauvorschläge für fernabstimmbare, motorgesteuerte Magnetantennen zum Senden und Empfangen, sowie Vorschläge und Bauanleitungen für magnetische Empfangsantennen, die, beginnend mit Langwelle, über Mittel- und Kurzwelle bis in den UHF-Bereich funktionieren. Diese Antennen wurden praktisch getestet und eingehend mit modernen Meßgeräten untersucht. Allen Projekten sind Stücklisten beigefügt, die den schnellen und einfachen Nachbau ohne Rückschläge gewährleisten. In 225 Abbildungen sind Konstruktionsskizzen, Detail- und Gesamtfotos sowie Oszillogramme und Spektrogramme dokumentiert. Die praxisnahe Beschreibung von HF-Verstärkern und sinnvollen Meßgeräten sowie der Selbstbau einfachen Meßzubehörs runden das Thema ab. Dieses nützliche Buch von 112 Seiten ist für € 12,80 erhältlich von: Verlag für Technik und Handwerk GmbH, Postfach 22 74, D-76492 Baden-Baden, Telefon 07221-5087-0, Fax 07221-5087-52, Internet <www.vth.de> oder im Buchhandel (ISBN 3-88180-385-8).

Einen neuen Internetservice bietet der **Evangeliums-Rundfunk** (ERF) in Wetzlar seit August an. Zunächst monatlich gibt der private Radio- und Fernsehproduzent einen ERF Newsletter heraus. "Wir wollen unsere Freunde mit den modernen Kommunikationsmitteln über aktuelle Entwicklungen informieren", so Pressesprecher Michael vom Ende zum Start des ERF Newsletters. Künftig sind in dem übersichtlich gestalteten Medium Informationen aus den Bereichen Radio, Fernsehen, Internet, Internationale Projekte sowie Veranstaltungshinweise und Aktuelles zum Programm zu finden. Der ERF Newsletter kann kostenlos abonniert werden. An- und Abmeldung ist jederzeit möglich im Internet unter <www.erf.de>.

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

**AFGHANISTAN:** The *US radio operation in Afghanistan* is currently using 864 kHz (5 kW) and 6100 kHz (1 kW), reports the Charlotte Observer. The station is run by the 8th Psychological Operations Battalion from Kandahar. The studio operates from a truck, concealed under a tent in a US military base. It operates 18 hours a day in Pashtun and Dari. The purpose of the station is to gain popular support for the government of President Hamid Karzai and for the ongoing US hunt for members of al-Qaida and the Taliban. The 8th Psychological Operations Battalion is a subordinate unit of the 4th Psychological Operations Group. The Battalion, stationed in Fort Bragg, North Carolina, is the functional broadcasting and loudspeaker component of the Group. It took over the broadcasts in March 2002, when EC-130E aircraft of the 193rd Special Operations Wing used in the Commando Solo II operation headed home. (DXing.info, August 19, 2002, via Nicolas Eramo, via CONEXION #173, via WWDXC-HQ)

The Broadcasting Board of Governors and the Transitional Islamic State of Afghanistan have signed the *US-Afghanistan Radio Agreement*, paving the way for the installation of two mediumwave transmitters with nationwide reach in Afghanistan. (© RNMN via JKB, 4 October 2002)

**ARGENTINA:** *Radiodifusion Argentina al Exterior - RAE*, has from now the following NEW e-mail: <rae@radionacional.gov.ar>. (GIB via NASWA #LN September 2002 via Al Quaglieri via WWDXC-HQ; September 10)

They have also a new official website at <<http://www.radionacional.gov.ar>>, but there is only one page with the hint 'Under Construction' and the address. (JKB, 10-6-02)

**AUSTRALIA:** *Voice International* deleted transmissions in Indonesian via DRW 250 kW / 317 deg:

0530-0600 on 21680 & 0600-0800 on 17820

(OBSERVER #207 by Ivo Ivanov and Angel Datzinov, via WB, 2002 Sep 24)

Australian short wave broadcaster *Voice International* is changing their web address from <<http://www.vil.com.au/>> to <<http://www.voice.com.au>>. While the new domain site is still under construction inquiries are redirected to the old domain, and messages using old domain references are still delivered. The new address is: Voice International Ltd., Killick St, Kunda Park, QLD 4556, Australia. Voice International broadcasts from the former R. Australia short wave station at Darwin and plans to establish 24 h Christian based companion programs in English, Mandarin-Chinese, Hindi and Bahasa Indonesia. These programs might not necessarily be aired on short wave in full, but will be offered to rebroadcasting partners via satellite. (HJB, via BC-DX #592, 2002 Sep 22)

At the end of this year 2002 (on or around Dec 25, 2002) current *HCJB* broadcasts to India and South Pacific from Pifo (Ecuador) will be replaced by a new 100 kW transmitter in Kununurra, West-Australia. The new station in Kununurra, will have to come up with a new station ID since it's not under the HCJB banner in Ecuador.

(Joe Hanlon via DX\_india via BC-DX #592, 2002 Sep 22)

**AUSTRIA:** *Trans World Radio - TWR-Europe* from transmitters in Europe. TWR is a Christian evangelical broadcaster with headquarters in North Carolina, USA. Schedule winter season B-02, valid 27 OCT 2002 - 29 MAR 2003 (Updated: 27 Sep 2002). Postal address: TWR-EUROPE, Vienna Office, Frequency Coordination, P.O.B. 141, A-1235 Vienna, Austria. Fax: +43-1-863-12-20 or +43-1-862-12-57. E-mail: <euromfreq@twr-europe.at>. Website <<http://www.twr.org>>.

#### Shortwave:

TRANS WORLD RADIO - MONTE CARLO, MONACO

TIME/UTC	DAYS	LANGUAGE	MB	FREQ	PWR	AZI	ZONES
0745-0850	6	English	31	9870	100	I324	27
0745-0920	7	English	31	9870	100	I324	27

TIME/UTC	DAYS	LANGUAGE	MB	FREQ	PWR	AZI	ZONES
0745-0850	6	English	31	9870	100	I324	27
0745-0920	7	English	31	9870	100	I324	27

TIME/UTC	DAYS	LANGUAGE	MB	FREQ	PWR	AZI	ZONES
0745-0850	6	English	31	9870	100	I324	27
0745-0920	7	English	31	9870	100	I324	27

0755-0920	12345	English	31	9870	100	I324	27
0930-0945	123456	German	41	7160	100	13	28
0930-0945	123456	German	31	9795	100	26	28
0930-1015		7 German	41	7160	100	13	28
0930-1015		7 German	31	9795	100	13	28
1330-1345	4	7 Slovenian	41	7280	100	85	28

1330-1345	123 56	Croatian	41	7280	100	85	28
1400-1430	7	German	41	7160	100	13	28
1400-1430	7	German	31	9795	100	26	28
1430-1500	1234567	German	41	7160	100	13	28
1430-1500	1234567	German	31	9795	100	26	28
TRANS WORLD RADIO - JULICH, GERMANY							
TIME/UTC	DAYS	LANGUAGE	MB	FREQ	PWR	AZI	ZONES
1130-1200	6	Slovak	41	7340	100	105	28,29
1330-1345	4 7	Slovenian	49	5945	100	130	28
1330-1345	123 56	Croatian	49	5945	100	130	28
1700-1745	6	Rumanian	41	7180	100	100	28
TRANS WORLD RADIO - NAUEN, GERMANY							
TIME/UTC	DAYS	LANGUAGE	MB	FREQ	PWR	AZI	ZONES
1700-1745	6	Rumanian	49	5850	125	125	28
TRANS WORLD RADIO - MOOSBRUNN, AUSTRIA							
TIME/UTC	DAYS	LANGUAGE	MB	FREQ	PWR	AZI	ZONES
1444-1529	67	Russian	31	9495	100	55	28/29/30
1444-1559	12345	Russian	31	9495	100	55	28/29/30
TRANS WORLD RADIO - CERRIK, ALBANIA							
TIME/UTC	DAYS	LANGUAGE	MB	FREQ	PWR	AZI	ZONES
0600-0615	12345	Slovak	49	6235	100	350	28/29
0615-0630	1234567	Polish	31	9850	100	350	28
0745-0850	6	English	25	12070	100	310	27
0745-0920	7	English	25	12070	100	310	27
0755-0920	12345	English	25	12070	100	310	27
0930-0945	23456	Hungarian	31	9490	100	350	28
1130-1200	6	Slovak	31	9490	100	350	28/29
1444-1529	67	Russian	25	11620	100	33	28/29/30
1444-1559	12345	Russian	25	11620	100	33	28/29/30
1600-1630	1234567	Polish	31	9440	100	350	28
1630-1645	7	Polish	31	9440	100	350	28
1630-1645	67	Armenian/East	49	5860	100	100	29S/39N
1630-1645	67	Armenian/East	41	7375	100	90	29S/39N
1630-1700	12345	Armenian/East	49	5860	100	100	29S/39N
1630-1700	12345	Armenian/East	41	7375	100	90	29S/39N
1715-1730	12 45	Czech	49	5860	100	0	28
1725-1825	7	Farsi	31	9960	100	90	30/40
1725-1825	7	Farsi	25	12075	100	90	30/40
1725-1840	123456	Farsi	31	9960	100	90	30/40
1725-1840	123456	Farsi	25	12075	100	90	30/40
1730-1800	1234567	Hungarian	49	5860	100	0	28
1825-1841	7	Qashqai	31	9960	100	90	30/40
1825-1841	7	Qashqai	25	12075	100	90	30/40
TRANS WORLD RADIO - SHIJAK, ALBANIA							
TIME/UTC	DAYS	LANGUAGE	MB	FREQ	PWR	AZI	ZONES
0600-0615	12345	Slovak	41	7380	100	350	28/29
0615-0630	1234567	Polish	41	7380	100	350	28
0930-0945	23456	Hungarian	41	7385	100	350	28
1600-1630	1234567	Polish	41	7355	100	350	28
1630-1645	7	Polish	41	7355	100	350	28
1715-1730	12 45	Czech	41	7180	100	350	28
Long & Medium Wave:							
TRANS WORLD RADIO - ROUMOULES, RMC FRANCE							
TIME/UTC	DAYS	LANGUAGE	M	FREQ	PWR	AZI	ZONES
0328-0358	7	French	1388	216	2000	315	27
0341-0356	123456	French	1388	216	2000	315	27
0445-0515	1234567	German	204	1467	1000	25	28
1945-2000	123 5	Croatian	204	1467	1000	85	28
2000-2015	7	Berber/Sous	204	1467	1000	241	7, 38
2000-2015	45	Albanian	204	1467	1000	85	28
2000-2015	23	Chinese/Mandarin	204	1467	1000	325	27,28
2000-2015	1	Berber/Tamazight	204	1467	1000	241	37,
2015-2030	5	Spanish	204	1467	1000	241	37,28
2015-2030	1234 67	Albanian	204	1467	1000	85	28
2030-2100	67	German	204	1467	1000	25	28
2030-2130	12345	German	204	1467	1000	25	28
2100-2300	67	Arabic	204	1467	1000	241	37,38
2130-2200	12345	Berber/Kabyle	204	1467	1000	241	37,38
2200-2300	12345	Arabic	204	1467	1000	241	37,38
2300-2345	1234567	English	204	1467	1000	325	27,28
TRANS WORLD RADIO - FLLAKE, ALBANIA							
TIME/UTC	DAYS	LANGUAGE	MB	FREQ	PWR	AZI	ZONES
1925-1940	12	Bosnian	215	1395	500	330	28
1940-2015	1234567	Hungarian	215	1395	500	330	28
2015-2030	7	Russian	215	1395	500	330	28
2015-2030	5	Arabic	215	1395	500	330	28
2015-2030	4	Kurdish/Sorani	215	1395	500	330	28
2015-2030	3	Farsi	215	1395	500	330	28
2015-2030	2 6	Turkish	215	1395	500	330	28
2015-2030	1	Polish	215	1395	500	330	28
2030-2045	1234567	Croatian	215	1395	500	330	28
2045-2115	12345	Croatian	215	1395	500	330	28
2045-2115	67	Bosnian	215	1395	500	330	28
2115-2130	1234567	Slovak	215	1395	500	330	28
2130-2200	1234567	Czech	215	1395	500	330	28
TRANS WORLD RADIO - ST. PETERSBURG, RUSSIA							
TIME/UTC	DAYS	LANGUAGE	M	FREQ	PWR	AZI	ZONES
1900-1930	1234567	Lithuanian	201	1494	600	258	29NW
1930-2000	67	Lithuanian	201	1494	600	258	29NW
1930-2000	12345	Finnish	201	1494	600	258	18
2000-2030	67	Latvian	201	1494	600	258	29NW
2000-2030	12345	Swedish	201	1494	600	258	18
2030-2100	67	Estonian	201	1494	600	258	29NW
2030-2100	12345	Norwegian	201	1494	600	258	18
TRANS WORLD RADIO - CAPE GRECO, CYPRUS							
TIME/UTC	DAYS	LANGUAGE	M	FREQ	PWR	AZI	ZONES
0255-0300	1234567	Arabic	243	1233	600	205	38,39,40
0300-0315	7	Arabic/Iraqi	243	1233	600	205	38,39,40
0300-0315	6	Arabic	243	1233	600	205	38,39,40
0300-0330	12345	Arabic	243	1233	600	205	38,39,40
0315-0330		Arabic	243	1233	600	205	38,39,40
2025-2200	1 345	Arabic	243	1233	600	205	38,39,40
2025-2215	67	Arabic	243	1233	600	205	38,39,40
2044-2059	2	Arabic/Sudanese	243	1233	600	205	38,39,40
2059-2200	2	Arabic	243	1233	600	205	38,39,40
TRANS WORLD RADIO - GRIGORIOPOL, MOLDOVA							
TIME/UTC	DAYS	LANGUAGE	M	FREQ	PWR	AZI	ZONES
1830-1900	12345 7	Ukrainian	300	999	500	0	29
1830-1845	6	Ukrainian	300	999	500	0	29
1845-1900	6	Russian	300	999	500	0	29
2000-2030	1	Russian	300	999	500	0	29
2000-2100	7	Russian	300	999	500	0	29
2000-2030	345	Ukrainian	300	999	500	0	29
2000-2015	6	Ukrainian	300	999	500	0	29
2015-2100	6	Russian	300	999	500	0	29
2030-2100	1	Belorussian	300	999	500	0	29
2030-2100	345	Russian	300	999	500	0	29
1800-1830	1234567	Bulgarian	194	1548	1000	245	28
1830-1845	1234567	Romani/Balkan	194	1548	1000	245	28
1845-1915	1234567	Rumanian	194	1548	1000	245	28
1915-1945	123456	Romani/Kalderash	194	1548	1000	245	28
1915-2015	7	Serbian	194	1548	1000	245	28
1945-2015	123456	Serbian	194	1548	1000	245	28
Day 1 = Mon .. 7 = Sun							

(Bernhard Schraut - TWR Freq. Manager via WB, 1 Oct 02)

Transmissions in German (ID: "Stimme Der Hoffnung", translated as "Voice of Hope") from **Adventist World Radio - AWR** from 27. Oct 2002 to 29. March 2003 via shortwave Moosbrunn in Austria:

0800-0830 UTC = 0900-0930 MEZ, 9660 kHz 31m-Band 300kW

1600-1630 UTC = 1700-1730 MEZ, 7235 kHz 41m-Band 300kW

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

(Lothar Klepp - Technical Listener Service, via WWDXC-HQ; September 02, 2002)

**BRAZIL:** The following **31 mb stations from Brazil** were observed in Portugal at evening: 9504.9 R. Record, Sao Paulo SP, 12 AUG 2151-2204, tks, px ann, Voz do Brasil 2200, when reception also became better, though still under adjacent QRM. 23442.

9515.0 R. Novas de Paz, Curitiba PR, 12 AUG 2205-2217, part 1 of Voz do Brasil. Adj QRM; better on USB. 23442.

9530.0 R. Nova Visao, St? Maria RS, 12 AUG 2205-2217, part 1 of VdoB. Adj QRM. 24443.

9565.0 R. Tupi, Curitiba PR, 5 AUG 2235-2256, part 2 of Voz do Brasil. Adj QRM. 23442.

9645.1 R. Bandeirantes, Sao Paulo SP, 12 AUG 2210-2226, nx (not VdoB !). Co-ch QRM de

UNID in C. 33442.

9665.1 R. Marumby, Florianopolis SC, 5 AUG 2230-2241, part 2 of Voz do Brasil. Adj QRM. 13431.

9675.0 R. Cancao Nova, Cachoeira Paulista SP, 8 AUG 2244-2257, VdoB. Co-ch QRM de CHN. 54433.

9685.0 R. Gazeta, Sao Paulo SP, 12 AUG, 2219-2225, part 1 of VdoB. Co-ch QRM de silent carrier till nearly 2230, but couldn't ID of the C stn (TWN?). 33442.

9694.9 R. Rio Mar, Manaus AM, 5 AUG 2226-2252, part 2 of VdoB. Echoing audio. 35444.

11725.0 R. Novas de Paz, Curitiba PR, 1 AUG 2133-2150, rlgs px. 25443.

11765.0 R. Tuipi, Curitiba PR, 1 AUG 2140-2151, rlgs px. Adj QRM. 24442.

11785.0 R. Guaiba, Porto Alegre RS, 5 AUG 2214-2232, part 1 of VdoB, wx, part 2at 2225. Adj QRM. 33542.

11815.0 R. Brasil Central, Goiania GO, 5 AUG 2212-2225, part 1 of VdoB & wx forecast. 44543.

11925.0 R. Bandeirantes, Sao Paulo SP, 1 AUG 2146-2202, VdoB. QRM de UNID in C. 32441. dito ditto , ditto , 13 AUG 0925-0940, nx & wx, advs. F/out.

14431.

(Carlos Goncalves via BC-DX #587, 2002 Aug 12)

R Club Paranaense, 9725 kHz s-off 2200 after a sudden feed of the Voz do Brasil jingle. It was under ROU's E px till 2154, and after B s-off too at 2200, I believe it was AWR in CTR in E that became audible. 32441 first and then 34433 during period 2154-2200.

R Rio Mar, 9694.8 kHz airing Jornal em Tres Tempos - Local followed by a vy. short Ave Mary prayer 2155 and VdoB 2200. 25433.

R Gazeta, 9684.8 kHz at 2203 already w/ VdoB in progress. 25422.

R. Cancao Nova, 9675 kHz, also w/ VdoB at 2209. 34433 plus an avoidable het. signal from a UNID on 9675.8.

R. Tupi, 9565 kHz, airing VdoB too, at 2212. 33432, adjc QRM only.

R. Bandeirantes, Sao Paulo SP, 9645.1, noted at 2115-2203 airing their own nxcast interspersed w/ advs & TCs; 23432, w/ adj QRM only, which got strgr shortly prior to 2200 due to the IS of CRI 9640 in Spanish. Their \\ outlet of 11924.9 kHz noted on same day 2131-2155; 33442 w/ co-ch QRM de CHN (?), which got much strgr right before 2200.

(Carlos Goncalves via BC-DX #592, 2002 Sep 19)

### **CHINA (Peoples Rep.):** Some frequencies changes for *China Radio International*:

1400-1427 Turkish new 11700, ex 11750

1600-1757 Russian new 11965, ex 11945

1800-1957 Russian new 12000, ex 11945

(Ivanov and Datzinov in OBSERVER #203, via Nedjalkov via WB; September 10, 2002)

### **DENMARK:** *Radio Denmark* B02 schedule, valid October 27, 2002 - March 29, 2003.

UTC	Target (primary coverage in brackets)	kHz	Tx	Beam
1230-1255	Far East	12070	K	35
	Europe, Mediterranean, Canary Islands	13800	S	180
	South East Asia, Australia (west), Russia	15735	K	80
	North America (east), Carribean	18950	S	280
1330-1355	Europe	9590	S	180
	South East Asia, Australia (west), Russia	15735	K	80
	North America (east + central), Greenland	18950	S	300
1430-1455	Russia, Europe (south east), Middle East (east), South Asia (India)	13800	K	95
	North America (east + central), Greenland	17555	S	300
1530-1555	Middle East (west)	15735	K	120
	North America (west), Greenland	17525	S	315
1630-1655	Europe (south east), Middle East (west), Africa (east)	13800	K	145
	North America (west), Greenland	18950	S	315
1730-1755	Europe	7490	S	180
	Russia	9980	K	95
	Europe (south east), Middle East (west), Africa (east)	13800	K	145
	North America (east), Carribean	18950	S	280
1830-1855	Europe	7490	S	180

	New Zealand	9980	K 35
	Africa, Europe (south)	13800	K 165
	North America (east + central), Greenland	15705	S 300
1930-1955	Europe, Canary Islands	7490	S 180
	Africa, Europe (south)	9980	K 165
	North America (west), Greenland	13800	S 315
2030-2055	Europe, Canary Islands	7490	S 180
	Australia	9980	K 65
2130-2155	Europe, Canary Islands, Africa (west)	7490	K 195
	Australia	9510	K 65
2230-2255	Far East	7470	K 40
	South America, Canary Islands	7530	S 235
2330-2355	North America (east), Carribean	7470	S 280
	South America	7530	S 235
	South East Asia, Australia (west)	7490	K 80
	Far East	9920	K 40
0030-0055	North America (east), Carribean	7470	S 280
	South East Asia	7490	K 80
0130-0155	North America (east), Carribean	7470	S 280
	South Asia (India)	7490	K 95
	North America (east + central), Greenland	9945	S 300
0230-0255	North America (east), Carribean	7470	S 280
	South Asia (India)	7490	K 95
	North America (east + central), Greenland	9590	S 300
0330-0355	North America (west), Greenland	7470	S 315
	Middle East (east)	7490	K 110
	Europe (south east), Africa (east), Middle East (west)	9945	K 145
0430-0455	North America (west), Greenland	7470	S 315
	Russia, Middle East (east)	7490	K 95
	Europe (south east), Africa (east), Middle East (west)	9945	K 145
0530-0555	Europe (south east), Middle East (west), Africa (north east)	7465	K 140
	Russia, Middle East (east)	7490	K 95
0630-0655	Europe	5945	K 165
	Europe, Canary Islands	7180	S 195
	Europe (south west), Canary Islands, Africa (west)	9590	S 220
	Africa, Europe (south)	13800	K 165
0730-0755	Europe	7180	K 165
	Europe, Canary Islands, Africa (west)	9590	K 195
0830-0855	Australia, Europe (south west), (South America)	13800	S 235
	Far East, New Zealand	15705	K 40
0930-0955	Australia, Europe (south west), South America	13800	S 235
	Far East, New Zealand	15705	K 40
	Middle East (east), South Asia (India)	18950	K 95
1030-1055	Europe, Mediterranean, Canary Islands	13800	S 180
	South America, Canary Islands, Africa (west)	21765	S 235
1130-1155	Europe, Mediterranean, Canary Islands	13800	S 180
	South America, Canary Islands, Africa (west)	21765	S 235

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>

The two daily news transmissions in Danish only are aired at 12.30 and 18.30 UTC. Transmissions inbetween are repeats. The technical letterbox programme, "Tune In" is heard every second Saturday from 12.48 UT until 17.48 UTC. Transmissions may be cancelled without warning. Radio Denmark shares the Norwegian transmitters.

Stations: Kvitsoy (K) and Sveio (S) each have two 500 kW transmitters. 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. 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.  
(Radio Denmark, via Erik K oie via WB; September 24, 2002)

**GREECE:** Frequencies change for *Voice of Greece* ERA in various languages:

1300-1900 NF 666, ex 1386 \\ 792 till 1700, 15650 till 1330, 12105 from 1330  
 1300-1330 Arabic                    1500-1530 Romanian\*                    1700-1730 Albanian^  
 1330-1400 German\*                    1530-1600 Turkish                    1730-1800 French^  
 1400-1430 Russian\*                    1600-1630 Serbian                    1800-1830 Polish  
 1430-1500 Spanish\*                    1630-1700 Bulgarian                    1830-1900 English

\* strong co-ch BBC in Mandarin Ch plus Chinese mx

^ strong co-ch KNLS in Russian

(Ivanov and Datzinov in OBSERVER #202, via Nedjalkov via WB; September 06, 2002)

Effective 21 Sep, *Voice of Greece* will use 5865 (instead of 12105) for its broadcast at 1900-2100 (via Brazhnikov, Signal via DXLD #2148, 21 Sep 2002)

**IRAQ:** This listing of *Radio Baghdad* is from ILG data base.

Freq	Station	Times	Language	Target
11787	R.BAGHDAD	2100-2200	French	EU
11787	R.BAGHDAD	2300-0100	Arabic	EU
11787	R.BAGHDAD	2000-2100	German	EU
11787	R.BAGHDAD	0600-1300	Arabic	EU
11787	R.BAGHDAD	2200-2300	Turkish	EU
11787	R.BAGHDAD	0400-0500	Turkish	eNA
11787	R.BAGHDAD	1900-2000	English	EU
11787	R.BAGHDAD	0200-0300	German	eNA
11787	R.BAGHDAD	0100-0200	English	eNA
11787	R.BAGHDAD	0300-0400	French	eNA

(James Nipper at usenet rec.radio.shortwave via JKB, 14.9.02)

Try the following, 0100 to 0300 GMT in Arabic-German-French. 1900-2000 GMT in Arabic and Turkish. Or write to *Radio Iraq International* at PO Box 8145, Baghdad 12222, IRAQ. Has no known web site that I know of at this date and time.

(Stewart H. MacKenzie - WDX6AA at usenet rec.radio.shortwave via JKB, 15.9.02)

**MALAYSIA:** *RTM* continues to develop its MF and VHF networks, in Eastern and Western Malaysia. The facilities used for domestic HF broadcasting will not be replaced or repaired once their useful life has been reached, and some transmitters have already been closed down, in Sarawak and Sabah. The following frequencies were observed as being active, and may also be in use at other times:

4845 24-hrs (Kajang). Tamil, noted with phone-in programming 0430-0500 (100 kW)

4895 \*2200-0100\*, \*0800-1000\*, \*1030-1500\* (off air 1000-1030) (Kuching) (10 kW)

5030 \*2200-0000\*, \*1230-1400 (Kuching) (10 kW)

5965 24-hrs (Kajang). (Malay)(Radio-1) (100 kW)

5980 \*2200-1500\* (Kota Kinabalu) (10 kW)

6025 \*0500-1700\* (Kajang) (100 kW). Malay (Radio-8 and indigenous languages)

6050 \*2200-1500\* (Sibu) (10 kW)

7130 \*0400-0600\* (Kuching) (10 kW)

7270 0830-1200\* \*1245-1500\* (Kuching) (10 kW)

7295 24-hrs, (Kajang) (100 kW). English, relays 90.3 VHF "Radio-4" from Kuala Lumpur

Notes:

1. Actual operational times for Kota Kinabalu, Kuching and Sibu vary, within the time span indicated. Weekday schedules differ from weekends and holidays
2. At 1300-1310, 5030 4895 5980 6050 7270 all carry national news in Malay from Kuala Lumpur; at 1310 local programming resumes
3. Upgrading work is in progress at the Kajang site, with higher power being introduced for some services

(EDXP #267 via Jembatan DX #136 via WDXC-HQ; No Date by Jembatan given [Ed.]

**MISCELLANEOUS: English shortwave broadcasts** sorted by time. Credits to PRIME TIME SHORTWAVE <<http://www.triwest.net/~dsampson/shortwave/>> and Daniel Sampson, who updated on Sep. 28, 2002 this Version A02v21. This shortwave schedule list is intended for personal use only. Any other use without giving credit to or getting permission from Daniel Sampson, dsampson@triwest.net, and giving credit to the Prime Time Shortwave website is strictly prohibited.

Relay site codes: ae-United Arab Emirates, an-Antigua, as-Ascension, bo-Bonaire Neth. Antilles, ca-Sackville Canada, cu-Cuba, de-Delano USA, fg-French Guiana, ga-Gabon, ge-Germany, gr-Greenville USA, ma-Madagascar, po-Sines Portugal, ru-Russia, rw-Rwanda, sa-South Africa, si-Singapore, sl-Sri Lanka, sw-Sweden, uk-United Kingdom, wr-WRMI USA, wy-WYFR USA

Notes -- Days of week: Su-Sunday, M-Monday, Tu-Tuesday, W-Wednesday, Th-Thursday, F-Friday, Sa-Saturday; Target areas: Af-Africa, Am-America, As-Asia, Au-Australia, Eu-Europe, In-India, Ja-Japan, LA-Latin America, ME-Middle East, NA-North America, Oc-Oceania, SA-South America, UK-United Kingdom; Other: occ use-occasional use

UTC Time	Notes	Country	Station	Frequencies	0100-0200 LA, As	North Korea	V. of Korea	3560, 6195, 7140, 11735, 13760, 15180
0000-0015	As	Japan	R. Japan	13650, 17810				
0000-0015	As	Pakistan	R. Pakistan	11580, 15455	0100-0200 NA	China	China R. Int'l	9580cu, 9790ca
0000-0027	NA	Czech Republic	R. Prague	7345, 11615	0100-0200 NA	Russia	V. of Russia	7180, 9725, 11825, 12000, 17595
0000-0030	As, Oc	Australia	R. Australia	9660, 12080, 15240, 15415, 17580, 17775, 17795, 21725	0100-0200 ME, As	United Kingdom	BBC	9410, 17790
0000-0030	Am	Mexico	R. Mexico Int'l	9705, 11770	0100-0200 As	United Kingdom	BBC	6195, 9410, 11955, 15310, 15360, 17790
0000-0030	NA	Egypt	R. Cairo	9900	0100-0200 ME,SA,As	Japan	R. Japan	11860si, 11870, 11880s1, 15325, 17560, 17685, 17810, 17835, 17845
0000-0030	Eu, Af	Thailand	R. Thailand	9690	0100-0200 As,ME	Indonesia	V. of Indonesia	9525, 11785
0000-0030	As	United Kingdom	BBC	3915, 5970, 6195, 7105, 9410, 11955, 15310, 15360, 17615, 17790	0100-0230 NA	U. S. A.	KJES	7555
0000-0030	NA, M-Sa	Yugoslavia	R. Yugoslavia	9580	0100-0300 As	U. S. A.	V. of America	7115, 9635, 11705, 11725, 11820, 13650, 17740, 17820
0000-0045	As	India	All India R.	9705, 9950, 11620, 13605	0100-0400 NA	U. S. A.	WYFR	6065, 9505
0000-0100	NA	Japan	R. Japan	6145ca	0100-0400 NA	U. S. A.	WWCR	3215, 5070, 5935, 7435
0000-0100	Am, Tu-Sa	U. S. A.	V. of America	5995, 6130, 7405, 9455, 9775, 11695, 13790	0100-0500 NA	Croatia	Croatian R.	9925ge
0000-0100	As	U. S. A.	V. of America	7215, 9770, 11760, 15185, 15290, 17740, 17820	0100-0500 NA	Cuba	R. Havana Cuba	6000, 9820, 11705 USB
0000-0100	NA	U. S. A.	WYFR	6085, 9505	0100-0500 NA	U. S. A.	WWRB	3270, 5085
0000-0100	NA	U. S. A.	WWCR	3215, 5070, 7435, 13845	0100-0500 Am	U. S. A.	WINB	9320
0000-0100	As	U. S. A.	KVOH	17775	0100-0600 NA	Ecuador	HCJB	9745, 11960
0000-0100	NA	Spain	R. Ext. Espana	15385	0100-0600 NA	Costa Rica	RFPI	7445 USB, 15040
0000-0100	Su-M	U. S. A.	WWBS	11900 SSB	0100-0600 Eu, Oc	Ecuador	HCJB	21455 USB
0000-0100	NA	Costa Rica	RFPI	15040, 21815 USB	0100-0800 As	U. S. A.	KVOH	9975
0000-0100	Am	U. S. A.	WINB	12160	0100-1200 NA	U. S. A.	KAIJ	5755
0000-0100	NA	U. S. A.	WWRB	5085, 6890	0100-1500 NA	U. S. A.	KTBN	7510
0000-0100	Eu	Ukraine	R. Ukraine Int'l	5905, 7320, 12040	0130-0200 Am, Tu-Sa	U. S. A.	V. of America	5995, 6130, 9455
0000-0100	NA,M	Finland	R. Finland	11990, 13730	0130-0200 Am, Tu-Sa	U. S. A.	V. of America	7405, 9775, 13740
0000-0100	NA	U. S. A.	KTBN	15590	0130-0200 CA	Ireland	RTE	6155uk
0000-0100	NA	U. S. A.	KAIJ	13815	0130-0200 As	Sweden	R. Sweden	13625
0000-0100	SA	Croatia	Croatian R.	9925ge	0130-0200 As, Oc	Australia	R. Australia	9660, 12080, 15240, 15415, 17580, 17750, 17795, 21725
0000-0125	NA	Netherlands	R. Netherlands	6165bo, 9845bo	0130-0200 NA	Austria	R. Austria Int'l	9870
0000-0200	Am	U. S. A.	WSHB	7535, 9430, 15285	0140-0200 Am	Vatican City	Vatican R.	9605
0000-0200	Am	U. S. A.	WRMI	7385 (M-F), 9955	0145-0200 NA	Albania	R. Tirana	6115, 7160
0000-0300	LA	United Kingdom	BBC	5975an, 9825uk, 11835wy, 12095as, 15245	0200-0230 NA,Tu-Sa	Argentina	RAE	6060, 11710
0000-0300	NA	U. S. A.	WEWN	5825, 9355, 15745	0200-0230 NA, Sa	Wales	Wales R. Int'l	9795uk
0000-0300	Am	U. S. A.	WRNO	7355	0200-0230 ME, As	Austria	AWR	9820
0000-0400	As	Hawaii	KWHR	17510	0200-0245 As	Germany	Deutsche Welle	11965s1, 13720, 15370s1
0000-0458	Oc	New Zealand	RNZI	17675	0200-0300 NA, As	Taiwan	CBS-R. Taipei I.	5950wy, 9680wy, 11740wy, 15320, 15465
0000-0500	NA	U. S. A.	WBCQ	7415, 9335, 11660	0200-0300 NA	South Korea	R. Korea Int'l	9560ca, 15575
0000-0500	NA	U. S. A.	WHRA	7580	0200-0300 NA,Ja,NZ	Romania	R. Romania Int'l	9510, 11810, 11940, 15105, 15180, 17815
0000-0600	NA	Canada	CBC Northern Svce	9625	0200-0300 Am	U. S. A.	WSHB	5850, 7535, 9430
0000-0700	SA	Guyana	V. of Guyana	3290	0200-0300 NA	Bulgaria	R. Bulgaria	9400, 11700
0000-1000	Am	U. S. A.	WHRI	5745, 7315	0200-0300 NA	Russia	V. of Russia	7180, 9725, 12000, 17595
0030-0100	NA	Thailand	R. Thailand	15395	0200-0300 ME, As	United Kingdom	BBC	9410, 6195, 9410, 12095, 17790
0030-0100	NA	Lithuania	R. Vilnius	11690	0200-0300 Af	United Kingdom	BBC	9770
0030-0100	As	United Kingdom	BBC	5970, 6195, 7105, 9410, 11955, 15310, 15360, 17790	0200-0300 As	United Kingdom	BBC	11955, 15310, 15360, 17790
0030-0100	As	United Arab Em	AWR	6035, 6055	0200-0330 In	Ecuador	HCJB	21470
0030-0127	Am, NA	Iran	VOIRI	9610, 11970	0200-0330 NA	Egypt	R. Cairo	9475
0030-0130	As, Oc	Australia	R. Australia	9660, 12080, 15240, 15415, 17580, 17750, 17775, 17795, 21725	0200-0400 As, Oc	Australia	R. Australia	9660, 12080, 15240, 15415, 15515, 17580, 17750, 21725
0055-0115	NA	Italy	RAI	9675, 11800	0200-0900 Am	U. S. A.	WRMI	7385
0100-0127	NA	Czech Republic	R. Prague	6200, 7345	0230-0258 NA	Vietnam	V. of Vietnam	6175ca
0100-0128	NA	Vietnam	V. of Vietnam	6175ca	0230-0300 NA	Sweden	R. Sweden	9490ca
0100-0130	Am, Tu-Sa	U. S. A.	V. of America	5995, 6130, 7405, 9455, 9775, 13790	0230-0300 NA	Hungary	R. Budapest	9570
0100-0130	NA,CA,SA	Slovakia	R. Slovakia Int'l	5930, 6190, 9440	0230-0300 NA	Albania	R. Tirana	6115, 7160
0100-0130	As	Uzbekistan	R. Tashkent	5955, 5975, 7215	0250-0315 Am	Vatican City	Vatican R.	7305, 9605
0100-0130	NA	Hungary	R. Budapest	9560	0300-0327 NA	Czech Republic	R. Prague	7345, 7385wr, 9870
0100-0145	NA	Germany	Deutsche Welle	6040ca, 9640, 11810an, 13720po	0300-0330 Af	U. S. A.	V. of America	5855, 6080, 7105, 7275,
0100-0159	Am	Canada	R. Canada Int'l	5960, 13670, 15170, 15305				

			7290, 7340, 9575, 9885, 17895	0500-0600 Au, Oc	Russia	V. of Russia	17635, 17685, 21790
0300-0330 NA	Thailand	R. Thailand	15395	0500-0700 NA, Eu	Cuba	R. Havana Cuba	9550, 9820, 9550 USB, 9625 USB, 9665 USB
0300-0330 Af	South Africa	Channel Africa	6035	0500-0700 Af	Nigeria	V. of Nigeria	7255, 15120
0300-0345 NA	Germany	Deutsche Welle	9535ca, 9640an, 11935po, 15105bo	0500-0700 As	Russia	V. of Russia	17795
0300-0350 NA, Eu	Turkey	V. of Turkey	7270, 9650	0500-0800 As	United Kingdom	BBC	11955, 15310, 15360, 17760, 17790, 21660
0300-0400 NA	China	China R. Int'l	9690sp	0500-0900 NA	U. S. A.	WWCR	3215, 5070, 5935, 7560
0300-0400 NA, As	Taiwan	CBS-R. Taipei I.	5950wy, 9680wy, 11875, 15320	0500-1000 As	Hawaii	KWHR	11565, 17780
0300-0400 As	North Korea	V. of Korea	6195, 7140, 9335	0500-1000 NA	U. S. A.	WHRA	11730
0300-0400 Am	U. S. A.	WSHB	5850, 7535, 9455, 11550	0530-0550 Au	United Arab Em	Emirates R.	15435, 17830, 21695
0300-0400 Eu	Ukraine	R. Ukraine Int'l	7150, 12040	0530-0600 Eu, ME, Af	Austria	R. Austria Int'l	6155, 13730, 17870
0300-0400 Eu	United Kingdom	BBC	6195, 9410	0530-0600 Eu	Thailand	R. Thailand	21795
0300-0400 Af	United Kingdom	BBC	3255, 6005, 6190, 7120, 7160, 11730, 12035, 15420 (from 0330)	0530-0630 Af	South Africa	AWR	15105
0300-0400 As	United Kingdom	BBC	15310, 15360 (to 0330), 17635, 17790, 21660, 21830	0530-0700 As, Oc	Australia	R. Australia	9660, 12080, 15240, 15415, 15515, 17580, 17750, 21725
0300-0400 CA, Oc	Japan	R. Japan	17825, 21610	0600-0630 Af	U. S. A.	V. of America	5970, 6035, 6080, 7195, 11995, 12080, 13670
0300-0500 LA	United Kingdom	BBC	5975an, 11835wy	0600-0630 Af, M-F	France	R. France Int'l	11710, 17800, 21620
0300-0500 NA	Russia	V. of Russia	11750, 12000, 15455, 17650, 17660, 17690	0600-0645 Af	Germany	Deutsche Welle	11925po, 13790po, 17860
0300-0500 ME, As	United Kingdom	BBC	9410, 12095, 15575, 17790	0600-0650 Eu	Greece	V. of Greece	9420, 15630
0300-0900 Eu	U. S. A.	WMLK	9465, 9955	0600-0700 NA, As, Eu	Japan	R. Japan	7230uk, 9835, 11740si, 13630, 15195, 17870, 21755
0300-1000 NA	U. S. A.	WEWN	5825, 7425, 15745	0600-0700 NA	Romania	R. Romania Int'l	9635, 11940
0300-1500 Am	U. S. A.	WRNO	7395	0600-0700 Eu	U. S. A.	WVFR	7355, 11580
0310-0340 Af	Vatican City	Vatican R.	9660	0600-0700 Eu	U. S. A.	V. of America	9530, 9760, 11805, 11965, 15205
0330-0350 NA	United Arab Em	Emirates R.	12005, 13675, 15395	0600-0700 Eu	United Kingdom	BBC	9410, 12095, 15485
0330-0357 ME, As	Czech Republic	R. Prague	11600, 15620	0600-0700 Af	United Kingdom	BBC	6005, 6190, 7160, 9410, 11765, 11940, 12095, 15485, 17640, 17885 (Sa-Su)
0330-0400 NA	Sweden	R. Sweden	9490ca	0600-0700 Au, Oc	Russia	V. of Russia	15490, 17635, 17685, 21790
0330-0400 Af	U. S. A.	V. of America	5855, 6080, 7105, 7205, 7290, 9575, 9885, 17895	0600-0800 Am	U. S. A.	WSHB	9455, 11550
0330-0400 As	Guam	AWR	11775	0600-0800 Eu	Ecuador	HCJB	11680
0400-0415 NA, Eu	Israel	Israel B/C Auth.	9435, 15640, 17600	0600-0800 NA	Costa Rica	RFPI	7445 USB
0400-0430 Af	U. S. A.	V. of America	4960, 5855, 6080, 7275, 7290, 9575, 9885, 17895	0600-1200 NA	U. S. A.	WBCQ	7415
0400-0430 NA	Belgium	R. Vlaanderen i	15565bo	0600-1900 Eu	Germany	Deutsche Welle	6140
0400-0430 NA, Tu-Su	Mexico	R. Mexico Int'l	9705, 11770	0630-0700 Af, Sa-Su	U. S. A.	V. of America	5970, 6035, 6080, 7195, 11995, 12080, 13670
0400-0430 Af, M-F	France	R. France Int'l	11910, 11995	0630-0700 Af	Vatican City	Vatican R.	11625, 13765, 15570
0400-0430 Af	South Africa	Channel Africa	5955	0630-1430 Eu, Oc	Ecuador	HCJB	21455 USB
0400-0430 As, Oc	Australia	R. Australia	9660, 12080, 15240, 15415, 15515, 17580, 17750 (Sa-Su), 21725	0637-0656 Eu	Romania	R. Romania Int'l	7105, 9625, 9550, 11775
0400-0430 Af	South Africa	AWR	7235	0645-0800 Eu	Monaco	TWR	9870
0400-0445 Af	Germany	Deutsche Welle	6180rw, 7225rw, 12045po, 13690	0645-0800 Eu	Germany	TWR	6045
0400-0500 NA, In	Romania	R. Romania Int'l	9510, 11940, 17735, 21480	0659-1105 Oc	New Zealand	RNZI	11675
0400-0500 NA, Eu	U. S. A.	WVFR	6065, 9505, 9355, 11580	0700-0705 Eu	Pakistan	R. Pakistan	17520, 21465
0400-0500 Am	U. S. A.	WSHB	5850, 7535, 9455, 11550, 15195	0700-0727 Eu	Czech Republic	R. Prague	9880, 11600
0400-0500 As	Hawaii	KWHR	17780	0700-0730 Eu	Belgium	R. Vlaanderen i	5985ge
0400-0500 NA	U. S. A.	WWCR	3215, 5070, 5935, 7435, 7560	0700-0730 Au, Oc	Slovakia	R. Slovakia Int'l	9440, 15460, 17550
0400-0500 Af	United Kingdom	BBC	3255, 6005, 6190, 6195, 7120, 7160, 9410, 15420, 17640	0700-0730 ME, As	United Kingdom	BBC	11760, 15565, 15575, 17640
0400-0500 As	United Kingdom	BBC	15310, 17635, 17790, 21660, 21830	0700-0730 Af	Austria	AWR	7230
0400-0600 NA	China	China R. Int'l	9560ca, 9730fg	0700-0800 Eu, Af	U. S. A.	WVFR	7355, 13695, 15170
0400-0600 Eu	U. S. A.	V. of America	9530, 11965, 15205	0700-0800 As, Oc	Australia	R. Australia	9660, 12080, 15240, 15415, 17580, 17750, 21725
0400-0600 Eu	United Kingdom	BBC	6195, 9410, 12095	0700-0800 Af	Romania	R. Romania Int'l	21530
0430-0500 Af	U. S. A.	V. of America	4960, 5855, 6080, 7275, 7290, 9575, 17895	0700-0800 Af, M-F	France	R. France Int'l	15605
0430-0500 As, Oc	Australia	R. Australia	9660, 12080, 15240, 15415, 15515, 17580, 17750, 21725	0700-0800 Af	United Kingdom	BBC	6190, 11765, 11940, 12095, 15400, 15485, 17640, 17885 (Sa-Su)
0430-0500 Af	South Africa	AWR	11975	0700-0800 NA	Taiwan	CBS-R. Taipei I.	5950wy
0430-0500 NA	Yugoslavia	R. Yugoslavia	9580	0700-0900 As	Russia	V. of Russia	17675, 17795
0430-0530 NA	Netherlands	R. Netherlands	6165bo, 9590bo	0700-0900 Au, Oc	Russia	V. of Russia	15490, 17495, 17525, 17635, 17675, 17685
0445-0500 Af	Italy	RAI	7235, 9875	0700-1000 Eu	Greece	V. of Greece	15630, 17900
0459-0658 Oc	New Zealand	RNZI	15340	0700-1100 Oc	Ecuador	HCJB	11755
0500-0520 Eu, Af	Vatican City	Vatican R.	4005, 5880, 7250, 9660, 11625, 15570	0700-1500 Eu	United Kingdom	BBC	12095, 15485, 15565, 17640
0500-0530 Am, Tu-Sa	Mexico	R. Mexico Int'l	9705, 11770	0700-2200 SA	Guyana	V. of Guyana	3290, 5950
0500-0530 Af	South Africa	Channel Africa	11710	0730-0800 Af	Switzerland	Swiss R. Int'l	15445, 17685, 21750
0500-0530 Af, M-F	France	R. France Int'l	11685, 15155, 17800	0730-0900 ME, As	United Kingdom	BBC	11760, 15565, 15575 (Sa-Su), 17640
0500-0530 As, Oc	Australia	R. Australia	9660, 12080, 15240, 15415, 15515, 17580, 17750 (Sa-Su), 21725	0800-0830 As, Oc	Australia	R. Australia	5995, 9580, 9710, 11880, 12080, 15240, 15415, 17750 (Sa-Su), 21725
0500-0530 Af	South Africa	AWR	5960, 6015	0800-0900 Am	U. S. A.	WSHB	9845, 9860, 11550
0500-0545 NA	Germany	Deutsche Welle	9670an, 9785po, 11985bo	0800-0900 As	Alaska	KNLS	11765
0500-0600 LA	United Kingdom	BBC	5975an	0800-0900 Af	U. S. A.	WVFR	13570
0500-0600 NA, Eu, As	Japan	R. Japan	5975uk, 6110ca, 7230uk, 9835, 11715, 11760, 13630, 15195, 17810, 21755	0800-0900 As	United Kingdom	BBC	11955, 15310, 15360, 17760, 21660, 21830
0500-0600 Af	U. S. A.	V. of America	5970, 6035, 6080, 7195, 12080, 13670	0800-0900 Eu	South Korea	R. Korea Int'l	7550, 9570, 13670
0500-0600 Eu	U. S. A.	WVFR	9355	0800-0900 As, Oc	Indonesia	V. of Indonesia	9525, 11785
0500-0600 Am	U. S. A.	WSHB	5850, 7535, 9455, 9840, 11550	0800-1000 As	U. S. A.	V. of America	11930, 13610, 15150
0500-0600 NA	U. S. A.	WBCQ	7415, 9335	0800-1000 Af	United Kingdom	BBC	6190, 11940, 15400, 15485, 17640, 17830, 17885, 21470
0500-0600 ME, As	United Kingdom	BBC	9410, 15565, 15575, 17790	0800-1200 NA, Sa-Su	Costa Rica	RFPI	7445 USB
0500-0600 Af	United Kingdom	BBC	6005, 6190, 6195, 7160, 9410, 11765, 11940, 15420, 17640, 17885	0830-0900 Af	Switzerland	Swiss R. Int'l	21770
				0830-0900 As, Oc	Australia	R. Australia	5995, 9580, 9710, 11880, 12080, 15240, 15415, 17750, 21725
				0830-0930 Af	Austria	AWR	17780

0900-0929 As,Af	Czech Republic	R. Prague	21745					15240, 15425
0900-0930 As, Oc	Australia	R. Australia	9580, 11880, 15240, 17750 (Sa-Su), 21820		1200-1300 NA	U. S. A.	WYFR	5850, 5950, 13695, 17750
0900-0945 Au, As	Germany	Deutsche Welle	6160an, 9510an, 15470ru, 17715ru, 17770sl, 17820sl, 21790		1200-1300 As	Bangladesh	R. Bangladesh	7185, 9550
0900-0945 Af	Germany	Deutsche Welle	12035ga, 15410ga, 17800ma, 21560ga, 21780		1200-1300 NA	U. S. A.	WEWN	9465, 11550, 11875, 15405, 15745
0900-1000 Am	U. S. A.	WSHB	9455, 9860, 11550		1200-1300 As,Oc	China	China R. Int'l	9730, 9760, 11760, 11980, 15415
0900-1000 LA	United Kingdom	BBC	15190as		1200-1300 NA	U. S. A.	WBCQ	9335
0900-1000 NA	U. S. A.	WWCR	5070, 5935, 7560, 9475		1200-1300 NA	U. S. A.	WWCR	7560, 12160, 13845, 15825
0900-1000 As	United Kingdom	BBC	6195, 9740, 15310, 15360, 17760, 17790, 21660		1200-1300 Af	United Kingdom	BBC	6190, 11940, 15485, 17640, 17830, 17885, 21470
0900-1000 Eu, M-F	Vatican City	Vatican R.	5880		1200-1300 As, Au	Taiwan	CBS-R. Taipei I.	7130, 9610
0900-1100 Oc	China	China R. Int'l	11730, 15210		1200-1330 As, Oc	Australia	R. Australia	5995, 6020, 9475, 9580, 11650, 11880, 21820
0900-1200 Am	U. S. A.	WRMI	9955		1200-1459 Am, M-F	Canada	CBC	9515, 13655, 17710
0900-1400 ME, As	United Kingdom	BBC	11760, 15565, 15575, 17640		1200-2000 NA	Costa Rica	RFPI	21815 USB
0930-1000 Eu	Lithuania	R. Vilnius	9710		1200-2300 Am	U. S. A.	WRMI	15725
0930-1100 As, Oc	Australia	R. Australia	9580, 11880, 15240, 17750, 21820		1200-2300 Am	U. S. A.	WINB	13570
0930-1130 As	Netherlands	R. Netherlands	7260ru, 9790bo, 12065ru, 13710		1200-2400 NA	Canada	CBC Northern Svce	9625
1000-1005 Eu	Pakistan	R. Pakistan	17520, 21465		1200-2400 NA	U. S. A.	KAIJ	13815
1000-1028 As	Vietnam	V. of Vietnam	9840, 12020		1230-1258 As	Vietnam	V. of Vietnam	9840, 12020
1000-1030 As, Oc	Ireland	RTE	15280si		1230-1300 As, Oc	Thailand	R. Thailand	9885
1000-1030 As	Mongolia	V. of Mongolia	12085		1230-1300 NA	Finland	R. Finland	15400, 17670
1000-1030 As	Guam	AWR	11560, 11930		1230-1300 NA,As,Au	Sweden	R. Sweden	17505, 18960, 21530
1000-1100 LA	United Kingdom	BBC	6195an		1230-1300 Au, Sa	Wales	Wales R. Int'l	17845uk
1000-1100 Am	U. S. A.	V. of America	5745, 7370, 9590		1230-1320 Eu,As,Au	Turkey	V. of Turkey	17615, 17830
1000-1100 As	U. S. A.	V. of America	9770, 15240, 15425		1300-1329 Eu, As	Czech Republic	R. Prague	13580, 21735
1000-1100 NA	U. S. A.	WYFR	5950		1300-1330 As	Guam	AWR	15385, 17740
1000-1100 Am	U. S. A.	WSHB	6095, 9455		1300-1400 LA	United Kingdom	BBC	6195an, 9740si, 15190an
1000-1100 LA, Sa-Su	United Kingdom	BBC	15190as		1300-1400 NA, Eu	North Korea	V. of Korea	4405, 9335, 11710, 13760, 15245
1000-1100 As, Au	India	All India R.	11585, 13695, 15020, 15260, 17510, 17800, 17895		1300-1400 NA,As,Oc	China	China R. Int'l	7405, 9570cu, 11760, 11900, 11980, 15180
1000-1100 Af	United Kingdom	BBC	6190, 11940, 15400 (Sa-Su), 15485, 17640, 17830 (Sa-Su), 17885, 21470		1300-1400 As	U. S. A.	V. of America	6160, 9645, 9760, 15160, 15425
1000-1100 As	United Kingdom	BBC	6195, 9740, 15310, 15360 (t1030), 17760, 17790, 21660 (t1030)		1300-1400 Am	U. S. A.	WSHB	9430, 9455
1000-1100 Oc, As	Japan	R. Japan	9695, 15590, 21755		1300-1400 As	Alaska	KNLS	11565
1000-1100 CA, As	North Korea	V. of Korea	3560, 9335, 11710, 11735, 13650		1300-1400 NA	U. S. A.	WEWN	11550, 11875, 15405, 15745
1000-1200 NA	U. S. A.	WWCR	5070, 5935, 7560, 15825		1300-1400 NA	U. S. A.	WWRB	9495, 12170
1000-1200 NA	U. S. A.	WEWN	7425, 7520, 9465, 15405, 15745		1300-1400 NA	U. S. A.	WBCQ	9335, 11660
1000-1300 Am	U. S. A.	WHRI	6040, 9495		1300-1400 Af	United Kingdom	BBC	6190, 11940, 15420, 15485, 17640, 17830, 17885, 21470
1000-1600 As	Hawaii	KWHR	9930, 11565		1300-1400 As	South Korea	R. Korea Int'l	9570, 13670
1015-1030 NA, Eu	Israel	Israel B/C Auth.	15640, 17545		1300-1455 Sa-Su, Af	South Africa	Channel Africa	11720, 17780, 21725
1030-1050 Eu	United Arab Em	Emirates R.	13675, 15370, 15395, 21605		1300-1500 NA, LA	U. S. A.	WYFR	11830, 11865, 11970, 17510, 17750
1030-1057 Eu	Czech Republic	R. Prague	9880, 11615		1300-1500 As	U. S. A.	KVOH	9975
1030-1100 As	Guam	AWR	11560		1300-1500 Am	U. S. A.	WHRI	6040, 15105
1030-1130 NA	Netherlands	R. Netherlands	5965ca		1300-1559 Am, Sa-Su	Canada	CBC	9515, 13655, 17710
1100-1128 As	Vietnam	V. of Vietnam	7285		1300-1600 NA	U. S. A.	KJES	11715
1100-1130 LA	United Kingdom	BBC	6195an, 9740si, 15190an, 17760si, 17790as		1300-1700 NA	Jordan	R. Jordan	11690
1100-1130 As, Oc	Australia	R. Australia	5995, 6020, 9475, 9580, 11650, 11880, 12080, 15240, 21820		1300-2200 NA	U. S. A.	WWCR	9475, 12160, 13845, 15825
1100-1145 Af	Germany	Deutsche Welle	21525, 11785rw, 15410rw, 17860, 21525si, 21665rw		1306-1650 occ use	New Zealand	RNZI	6095
1100-1200 NA, As	Japan	R. Japan	6120ca, 9695, 15590		1330-1350 Eu	United Arab Em	Emirates R.	13630, 13675, 15400, 21597
1100-1200 As	U. S. A.	V. of America	6160, 9645, 9760, 9770, 15160, 15240, 15425		1330-1358 Eu	Vietnam	V. of Vietnam	11640, 13740
1100-1200 NA, LA	U. S. A.	WYFR	5850, 5950, 11725		1330-1400 NA, Eu, As	Sweden	R. Sweden	17505, 18960
1100-1200 Eu	Bulgaria	R. Bulgaria	15700, 17500		1330-1400 As	Uzbekistan	R. Tashkent	7285, 9715, 15295, 17775
1100-1200 Eu	Ukraine	R. Ukraine Int'l	11840, 15520		1330-1400 Eu, ME, Af	Austria	R. Austria Int'l	6155, 13730
1100-1200 Af	United Kingdom	BBC	6190, 11940, 15400 (t1130), 15485, 17640, 17830, 17885, 21470		1330-1400 As, Oc	Australia	R. Australia	5995, 6020, 9475, 9580, 11650, 11660, 21820
1100-1200 As	Taiwan	CBS-R. Taipei I.	7445, 11985		1330-1400 As	United Arab Em	AWR	15320
1100-1230 As, Au	Iran	VOIRI	15215, 15585, 15600, 21470, 21730		1330-1400 As	Guam	AWR	11705, 11980
1100-1300 Am	U. S. A.	WSHB	6095, 9455, 11660		1330-1500 As	India	All India R.	9690, 11620, 13710
1100-1400 As	Singapore	R. Singapore Intl	9600		1330-1657 Eu	Greece	V. of Greece	12105
1100-1400 As	United Kingdom	BBC	6195, 9740, 15310, 17700, 17760		1400-1430 As, Oc	Thailand	R. Thailand	9830
1100-1430 NA	Ecuador	HCJB	12005, 15115		1400-1500 NA, As, Af	China	China R. Int'l	7405, 9700, 11675, 13685, 15125, 17720cu
1106-1305 Oc	New Zealand	RNZI	15175		1400-1500 ME, Af, As	Japan	R. Japan	7200, 9505, 9845, 11730, 17755ga
1130-1200 As	Belgium	R. Vlaanderen i	9865ru		1400-1500 Eu	Romania	R. Romania Int'l	15250, 17735
1130-1200 NA, As, Au	Sweden	R. Sweden	17505, 18960		1400-1500 Af	France	R. France Int'l	11610, 17620
1130-1200 Eu, Af, As	Austria	R. Austria Int'l	6155, 13730, 21780		1400-1500 As	U. S. A.	V. of America	6160, 7125, 9760, 15160, 15425
1130-1200 As, Oc	Australia	R. Australia	5995, 6020, 9475, 9580, 11650, 11880, 12080, 21820		1400-1500 Eu	U. S. A.	V. of America	15255
1130-1230 NA	South Korea	R. Korea Int'l	9650ca		1400-1500 LA	United Kingdom	BBC	9740si, 15190an
1130-1300 LA	United Kingdom	BBC	6195an, 9740si, 15190an, 17760si		1400-1500 ME, As	United Kingdom	BBC	15565, 15575, 17640
1130-1325 NA, Eu	Netherlands	R. Netherlands	5965ca, 6045ge, 9860ge		1400-1500 Af	United Kingdom	BBC	6190, 11940, 15485, 17640, 17830, 21470, 21660
1200-1230 Af	France	R. France Int'l	15540ga, 25820		1400-1500 As	United Kingdom	BBC	6195, 9740, 15310, 17700
1200-1230 As	Uzbekistan	R. Tashkent	7285, 9715, 15295, 17775		1400-1500 As	Taiwan	CBS-R. Taipei I.	15265
1200-1259 Eu	Polonia	R. Polonia	6095, 9525, 11820		1400-1500 As	Russia	V. of Russia	7390, 9745, 12055, 15560, 17645
1200-1300 As	U. S. A.	V. of America	6160, 9645, 9760, 15160,		1400-1530 As, Oc	Australia	R. Australia	5995, 9580, 11650, 11660
					1400-1600 NA	U. S. A.	WBCQ	7415, 9335, 11660, 17495
					1400-1600 NA	U. S. A.	WEWN	11550, 11875, 15375, 15745
					1400-1700 NA	U. S. A.	WWRB	12170
					1430-1625 NA, As	Netherlands	R. Netherlands	12075ru, 12080ma, 15220ca, 15595ma
					1500-1515 Am	Iran	VOIRI	9610, 11970
					1500-1515 Af, ME	Pakistan	R. Pakistan	11570, 15100, 15725
					1500-1530 Am	Mexico	R. Mexico Int'l	9705, 11770
					1500-1530 Eu	Mongolia	V. of Mongolia	12015

1500-1530 Af	South Africa	Channel Africa	17770	1700-1800 NA	U. S. A.	WWRB	9495, 12170
1500-1530 Af	United Kingdom	BBC	6190, 11860, 11940, 12095, 15400, 15420, 15485, 17830, 21470, 21660	1700-1800 Eu	United Kingdom	BBC	6195, 9410, 12095, 15485
1500-1600 NA, Eu	North Korea	V. of Korea	4405, 9335, 11710, 13760, 15245	1700-1800 ME, As	United Kingdom	BBC	9410, 12095, 15565
1500-1600 As	U. S. A.	V. of America	7125	1700-1800 As	United Kingdom	BBC	3915, 5975, 7160, 9510, 15310
1500-1600 As	U. S. A.	V. of America	6160, 9590, 9760, 9845, 12040, 15550	1700-1800 Af	China	China R. Int'l	9695, 9760, 9870, 11920, 15205
1500-1600 NA	U. S. A.	WYFR	11830, 17750	1700-1800 Af	Russia	V. of Russia	9745, 11510, 11985
1500-1600 NA,As,Af	China	China R. Int'l	7160, 9785, 13685, 15125, 17720cu?	1700-1800 Eu	Russia	V. of Russia	7310, 7360 (Sa-Su), 9480 (Sa-Su), 9775, 9820 (Sa-Su), 11675 (Sa-Su)
1500-1600 Eu	United Kingdom	BBC	12095, 15485, 15565	1700-1900 Af	Germany	U. Meth. Church	13820, 15265
1500-1600 As	United Kingdom	BBC	5975, 6195, 9740, 15310, 17700	1700-2000 NA	U. S. A.	WEWN	11550, 13615, 15745, 17595
1500-1600 As	Japan	R. Japan	7200, 9750, 9845, 11730	1700-2000 Am	U. S. A.	WHRI	9495, 13760
1500-1600 As	Russia	V. of Russia	7390, 11500	1730-1745 Wld	United Nations	UN Radio	7150sa, 17570as, 17710uk
1500-1600 ME	Russia	V. of Russia	4940, 4965, 4975, 7325, 11985	1730-1800 Eu,ME	Sweden	R. Sweden	6065 (M-Sa), 13580 (Su)
1500-1700 Eu	U. S. A.	V. of America	9700, 15205, 15255	1730-1800 Af,ME	Switzerland	Swiss R. Int'l	15220, 17735, 21720
1500-1700 Am	U. S. A.	WHRI	13760, 15105	1730-1800 Eu	Belgium	R. Vlaanderen i	9925ru, 13690uk, 13710ge
1500-1700 LA	United Kingdom	BBC	15190an	1730-1800 Af	United Kingdom	BBC	3255, 6190, 9410, 15400, 15420, 15485, 17830, 21470
1500-1700 ME, As	United Kingdom	BBC	15565	1730-1800 Af	Vatican City	Vatican R.	13765, 15570, 17515
1500-2200 NA	U. S. A.	WHRA	17650	1730-1800 Af	Netherlands	R. Netherlands	6020ma, 11655ma
1500-2300 Am	U. S. A.	WRNO	7395, 15420	1745-1900 Eu	Bangladesh	R. Bangladesh	7185, 9550, 15520
1500-2400 As	U. S. A.	KVOH	17775	1745-1945 Eu, Af	India	All India R.	7410, 11620, 11935, 13605, 15075, 15155, 17670
1500-2400 NA	U. S. A.	KTBN	15590	1751-2050 M-F, Oc	New Zealand	RNZI	15160
1530-1600 NA	Austria	R. Austria Int'l	17860ca	1800-1828 Eu	Vietnam	V. of Vietnam	9725, 11640, 13740
1530-1600 Af	United Kingdom	BBC	6190, 11940, 12095, 15400, 15485, 17830, 21470, 21660	1800-1830 Af	South Africa	Channel Africa	17870
1530-1630 As	Iran	VOIRI	7245, 9635, 11775	1800-1830 ME	Ireland	RTE	15585uk
1530-1700 As, Oc	Australia	R. Australia	5995, 9475, 9580, 11650, 11660	1800-1830 Af	United Kingdom	BBC	3255, 6190, 6195, 9410, 15400, 15420, 17830, 21470
1550-1610 As, Au	Vatican City	Vatican R.	12065, 13765, 15235	1800-1830 As	United Kingdom	BBC	5975, 9510
1600-1615 Af	United Kingdom	BBC	6190, 9410, 11940, 12095, 15400, 15485, 17830, 21470, 21660	1800-1830 Af	South Africa	AWR	5970, 6095, 7170
1600-1627 Eu, Af	Czech Republic	R. Prague	5930, 21745	1800-1900 Af	U. S. A.	V. of America	6035, 7415, 11975, 15410, 15580, 17895
1600-1628 Eu	Vietnam	V. of Vietnam	11640, 13740	1800-1900 As, Oc	Australia	R. Australia	6080, 7240, 9475, 9580, 9815, 11880
1600-1630 Am	Mexico	R. Mexico Int'l	9705, 11770	1800-1900 Eu	U. S. A.	WYFR	18980
1600-1630 Af	South Africa	Channel Africa	9525	1800-1900 Eu	U. S. A.	V. of America	9760, 9770
1600-1630 As	Hawaii	KWHR	9930	1800-1900 NA, Eu, Su	Greece	V. of Greece	12105, 17705de
1600-1635 Eu	United Arab Em	Emirates R.	13630, 13675, 15400, 21597	1800-1900 Eu	United Kingdom	BBC	6195, 9410, 12095
1600-1645 Af, As	Germany	Deutsche Welle	6170, 7225, 9735rw, 11665rw, 17595, 21840	1800-1900 ME, As	United Kingdom	BBC	9410, 9740, 12095, 15565
1600-1700 Af	U. S. A.	V. of America	6035, 13710, 15225, 15410, 17810	1800-1900 Eu	Taiwan	CBS-R. Taipei I.	3955
1600-1700 Af	France	R. France Int'l	11995ga, 12015ga, 17605	1800-1900 Af	Russia	V. of Russia	9745, 11510, 11870
1600-1700 As	U. S. A.	V. of America	6160, 7125, 9760	1800-1900 Eu	Russia	V. of Russia	5950, 7300, 7310, 7360, 9480, 9775, 9820
1600-1700 NA, Eu, Af	U. S. A.	WYFR	11830, 13855, 17750, 18980, 21455, 21525	1800-2000 Am	U. S. A.	WSHB	15665, 18910
1600-1700 ME, Af	North Korea	V. of Korea	3560, 9975, 11735	1800-2000 NA	U. S. A.	KJES	15385
1600-1700 Af	U. S. A.	V. of America	13600, 15445, 17895	1800-2100 NA	Kuwait	R. Kuwait	11990
1600-1700 Af	U. S. A.	WEWN	11550, 13615, 15375, 15745	1800-2200 NA	U. S. A.	WWRB	12170
1600-1700 Eu	United Kingdom	BBC	9410, 12095, 15485, 15565	1830-1900 Af, Sa-Su	U. S. A.	V. of America	11690, 13835, 15525
1600-1700 As	United Kingdom	BBC	3915, 5975, 6195, 7160, 9510, 15310, 17700	1830-1900 NA, Af	Ireland	RTE	13640ca, 21630as
1600-1700 As	Russia	V. of Russia	7350, 11720, 12055	1830-1900 Eu	Slovakia	R. Slovakia Int'l	5920, 6055, 7345
1600-1700 ME	Russia	V. of Russia	7350, 11985, 12055, 15540	1830-1900 Eu, ME, Af	Austria	R. Austria Int'l	6155, 5945
1600-1700 ME	South Korea	R. Korea Int'l	5975, 9515, 9870	1830-1900 Af	United Kingdom	BBC	3255, 6005, 6190, 6195, 9410, 9630, 15400, 15420, 17830, 21470
1600-1700 Af	China	China R. Int'l	9565, 9870	1830-1900 Af	South Africa	AWR	7170
1600-1730 Af	France	R. France Int'l	11615, 15605	1830-1900 Eu	Yugoslavia	R. Yugoslavia	6100
1600-1800 Am	U. S. A.	WSHB	18910	1830-1920 Eu	Turkey	V. of Turkey	11960
1600-1800 As	Taiwan	CBS-R. Taipei I.	11550	1830-2025 Af	Netherlands	R. Netherlands	6020ma, 9895, 11655ma, 13700, 17605bo, 21590bo
1600-2000 NA	U. S. A.	WBQC	9335, 11660, 17495	1845-1900 Eu	Albania	R. Tirana	7210, 9520
1600-2200 Eu	U. S. A.	WMLK	9465, 15265	1900-1925 NA, Eu	Israel	Israel B/C Auth.	9435, 11605, 15615, 15640, 17545
1615-1630 Eu	Vatican City	Vatican R.	4005, 5880, 7250, 9645, 15595	1900-1928 Eu	Vietnam	V. of Vietnam	11640, 13740
1615-1700 Af	United Kingdom	BBC	6190, 9410, 11940, 12095, 15400, 15420 (f1630), 15485, 17830, 21470, 21660	1900-1930 Eu	Hungary	R. Budapest	6025, 7130
1615-1700 Af	United Kingdom	BBC	11860 (Sa), 21490 (Sa-Su)	1900-1945 Af	Germany	Deutsche Welle	11805rw, 11965sl, 13720, 15390rw, 17810sl
1630-1645 NA, Eu	Israel	Israel B/C Auth.	15615, 17545	1900-1945 ME	Iraq	R. Baghdad	11785 varies
1630-1700 Eu	Slovakia	R. Slovakia Int'l	5920, 6055, 7345	1900-2000 ME, As	U. S. A.	V. of America	7260, 9680, 13635, 13725 (f1930)
1630-1700 ME, As	Guam	AWR	9385, 9600, 11850, 15450	1900-2000 Af	U. S. A.	V. of America	4950, 6035, 7375, 7415, 11975, 15410, 15445, 15580
1650-1750 M-F, Oc	New Zealand	RNZI	11725	1900-2000 NA, Eu	North Korea	V. of Korea	4405, 11710, 13760, 15245
1700-1727 Eu, Af	Czech Republic	R. Prague	5930, 21745	1900-2000 As	U. S. A.	V. of America	9525, 11770, 15180
1700-1730 Af	South Africa	Channel Africa	17860	1900-2000 ME, As, M-F	U. S. A.	V. of America	9550, 9840, 11780, 11970, 12015, 15235
1700-1730 Af	United Kingdom	BBC	3255, 6190, 9410, 9630, 11860 (Sa), 15400, 15420, 15485, 17830, 21470	1900-2000 Eu	U. S. A.	V. of America	6095, 6160, 9760, 9770
1700-1759 Eu	Poland	R. Polonia	5995	1900-2000 As, Oc	Australia	R. Australia	6080, 7240, 9500, 9580, 9815, 11880
1700-1800 As, Oc	Australia	R. Australia	5995, 9475, 9580, 9815, 11880	1900-2000 Sa	Sri Lanka	Sri Lanka B. C.	6010uk
1700-1800 Af	U. S. A.	V. of America	15410, 15445, 17895	1900-2000 Eu	Thailand	R. Thailand	7155
1700-1800 As, M-F	U. S. A.	V. of America	5990, 6045, 7215, 9770, 9785	1900-2000 Eu, M-F	Argentina	RAE	9690, 15345
1700-1800 Eu, Af	U. S. A.	WYFR	13855, 18980, 21455	1900-2000 Eu	Bulgaria	R. Bulgaria	9400, 11900
1700-1800 Eu	U. S. A.	V. of America	9700, 9760, 15255	1900-2000 ME, As	United Kingdom	BBC	9410, 9740
1700-1800 NA, Af, Eu	Japan	R. Japan	9505, 11970, 15355ga	1900-2000 Af	United Kingdom	BBC	3255, 6005, 6190, 6195, 9410, 9630, 12095, 15400, 17830
1700-1800 As	U. S. A.	V. of America	6160, 7125, 7170, 9645	1900-2000 Eu	China	China R. Int'l	9440, 13790
1700-1800 Eu	Romania	R. Romania Int'l	11740, 15365, 15380, 17805	1900-2000 Eu	Russia	V. of Russia	7310, 7330, 7350, 7360, 7440, 9775, 9820
				1900-2000 Eu	South Korea	R. Korea Int'l	5975, 7275

1900-2000	Eu, Af	U. S. A.	WYFR	15775, 18930, 18980	2100-2400	NA	U. S. A.	WBCQ	7415, 9335, 11660
1900-2100	LA	Russia	V. of Russia	15735	2105-2200	Af, Sa	Spain	R. Ext. Espana	9840
1900-2200	Eu	United Kingdom	BBC	6195, 9410	2105-2200	Eu, Sa-Su	Spain	R. Ext. Espana	9690
1930-2000	Eu,Af,ME	Sweden	R. Sweden	6065	2115-2130	LA, M-F	United Kingdom	BBC	11675an, 15390gr
1930-2000	Eu	Belgium	R. Vlaanderen i	9925ru, 13690uk	2130-2145	LA, Tu, F	United Kingdom	BBC	11720
1930-2000	Eu	Slovakia	AWR	7130	2130-2157	Af,As,Au	Czech Republic	R. Prague	11600, 15545
1930-2029	Eu	Poland	R. Polonia	7165, 7265	2130-2200	Eu,Af,As	Sweden	R. Sweden	6065, 15255
1930-2030	Af	Switzerland	Swiss R. Int'l	13645, 15220, 17580, 17735fg	2130-2200	As, Oc	Australia	R. Australia	7240, 9660, 11880, 12080, 17715, 21740
1930-2030	Eu, Af	Iran	VOIRI	9800, 11670, 11695, 11750, 11855	2130-2200	Eu	Uzbekistan	R. Tashkent	5025, 11905
1935-1955	Eu	Italy	RAI	5970, 9745	2130-2200	Eu,ME,Af	Albania	R. Tirana	7130, 9540
1950-2010	Eu	Vatican City	Vatican R.	4005, 5880, 7250, 9645	2130-2200	Eu,ME,Af	Austria	R. Austria Int'l	6155, 5945
2000-2027	Eu,As,Au	Czech Republic	R. Prague	5930, 11600	2130-2200	Eu	China	China R. Int'l	11790, 15110
2000-2030	Af	U. S. A.	V. of America	4950, 6035, 7375, 7415, 11855, 11975, 15410, 15445, 15580, 17745, 17895	2130-2200	Eu	South Korea	R. Korea Int'l	3955uk
2000-2030	Eu	Mongolia	V. of Mongolia	12015	2130-2200	As	Guam	AWR	11850, 11980
2000-2030	Af	Vatican City	Vatican R.	9660, 11625, 13765	2130-2230	As, Au	Iran	VOIRI	9570, 13665
2000-2045	Eu	Germany	Deutsche Welle	6140	2151-2400	Oc	New Zealand	RNZI	17675
2000-2059	Eu, Af	Canada	R. Canada Int'l	5850sw, 5995uk, 11690uk, 11690uk, 11695ge, 12015ae, 15325, 15470ru, 17870	2200-2229	Am, M-F	Canada	CBC	6175, 9590, 11920, 13670, 15170, 17695, 17880
2000-2100	Eu	U. S. A.	V. of America	6095, 9760, 9770	2200-2230	Af, M-F	U. S. A.	V. of America	5855, 6035, 7375, 7415, 11975
2000-2100	Eu,Af,M-F	Spain	R. Ext. Espana	9570, 15290	2200-2230	Au, Su-F	Yugoslavia	R. Yugoslavia	7230
2000-2100	As, Oc	Australia	R. Australia	6080 (Sa-Su), 7240 (Sa-Su), 9500, 9580, 9815, 11880, 12080	2200-2250	NA	Turkey	V. of Turkey	11960, 12000
2000-2100	LA, Eu, Af	U. S. A.	WYFR	13855, 15775, 17725, 17845, 18980	2200-2300	Eu	Taiwan	CBS-R. Taipei I.	15600wy
2000-2100	NA	U. S. A.	WBCQ	7415, 9335, 11660, 17495	2200-2300	NA	U. S. A.	WWCR	7435, 9475, 12160, 13845
2000-2100	Af	United Kingdom	BBC	3255, 6005, 6190, 6195, 9410, 9630, 11835, 12095, 15400	2200-2300	NA, Eu, Af	U. S. A.	WYFR	11740, 15695, 17845
2000-2100	Eu, Af	China	China R. Int'l	9440, 11640, 11790, 13630, 15110	2200-2300	NA	U. S. A.	WEWN	9975, 11530, 11550, 15745, 17595
2000-2100	Eu	Russia	V. of Russia	7330, 7350, 7360, 9775, 9820, 11980	2200-2300	As, Oc	Australia	R. Australia	13620, 15230, 17715, 17795, 21740
2000-2100	Af	South Africa	AWR	9745	2200-2300	NA	U. S. A.	WHRA	7580, 17650
2000-2100	Eu	Indonesia	V. of Indonesia	11785, 15150	2200-2300	NA	U. S. A.	WWRB	6890, 12170
2000-2200	NA	U. S. A.	WEWN	11530, 11550, 13615, 15745, 17595	2200-2300	Eu	United Kingdom	BBC	6195
2000-2200	Eu	Ecuador	HCJB	17660	2200-2300	Af	United Kingdom	BBC	6195, 11835, 15400
2000-2200	Am	U. S. A.	WSHB	15665, 18910	2200-2300	As	United Kingdom	BBC	6195, 7105, 9660, 11685
2000-2300	Af	Nigeria	V. of Nigeria	7255, 15120	2200-2300	Eu	China	China R. Int'l	9880
2000-2400	Am	U. S. A.	WHRI	5745, 9495, 13760	2200-2359	Am, Sa-Su	Canada	CBC	6175, 9590, 13670, 17695
2000-2400	NA	Costa Rica	RFPI	15040, 21815 USB	2200-2400	As	U. S. A.	V. of America	7215, 9705, 9770, 11760, 15185, 15290, 15305, 17740, 17820
2005-2205	Eu	Syria	R. Damascus	12085, 13610	2205-2400	As	India	All India R.	9705, 9950, 11620, 13605
2025-2045	Af	Italy	RAI	6185, 9670, 11880	2300-2330	As	U. S. A.	V. of America	7190, 7200, 9545, 11925, 13775
2030-2045	Eu	Thailand	R. Thailand	9680	2300-2330	Am	Mexico	R. Mexico Int'l	9705, 11770
2030-2058	Eu	Vietnam	V. of Vietnam	11640, 13740	2300-2330	As, Oc	Australia	R. Australia	9660, 12080, 13620, 15230, 17715, 17795, 21740
2030-2100	Eu, F	Wales	Wales R. Int'l	7325uk	2300-2345	As	Germany	Deutsche Welle	9815, 12000sl, 17560ru, 21790ru
2030-2100	Eu	Uzbekistan	R. Tashkent	5025, 11905	2300-2400	NA	Bulgaria	R. Bulgaria	9400, 11700
2030-2100	Af	U. S. A.	V. of America	4950 (Sa-Su), 6035, 7375, 7415, 11975, 15410, 15445, 15580	2300-2400	NA, Eu	Romania	R. Romania Int'l	9570, 11740, 11775, 15105
2030-2120	As, Au	Turkey	V. of Turkey	9525	2300-2400	NA	Egypt	R. Cairo	9900
2030-2130	Eu	Cuba	R. Havana Cuba	13660, 13750	2300-2400	NA	China	China R. Int'l	5990cu, 13680ca
2030-2200	Eu, Oc	Ecuador	HCJB	21455 USB	2300-2400	NA, LA	U. S. A.	WYFR	5985, 11740, 11855, 15255, 17750
2045-2230	Eu, Oc	India	All India R.	7150, 7410, 9650, 9910, 11620, 11715	2300-2400	NA	U. S. A.	WEWN	9355, 9975, 15745, 17595
2100-2129	Eu,Af,ME	Canada	R. Canada Int'l	5850sw, 7235uk, 13690uk, 15325, 17870	2300-2400	Am	U. S. A.	WRNO	7355
2100-2130	As, Oc	Australia	R. Australia	7240, 9500, 9580, 9660, 11880, 12080, 17715, 21740	2300-2400	Am	U. S. A.	WHRA	7580
2100-2130	Eu	Hungary	R. Budapest	3975, 6025	2300-2400	Am	U. S. A.	WRMI	7385 (Su-F), 9955
2100-2130	Eu, Af	China	China R. Int'l	11640, 11790, 13630, 15110	2300-2400	NA	U. S. A.	WWBS	11900 SSB
2100-2130	Eu	Yugoslavia	R. Yugoslavia	6100	2300-2400	As	United Kingdom	WWRB	5085, 6890
2100-2145	Af, As	Germany	Deutsche Welle	9670sl, 9765, 9830rw, 11865, 11915sl, 15135rw	2300-2400	SA	Croatia	Croatian R.	9925ge
2100-2200	Af	U. S. A.	V. of America	6035, 7375, 7415, 11975, 15410, 15445, 15580	2300-2400	Am	U. S. A.	WINB	12160
2100-2200	NA, Af, Eu	Japan	R. Japan	6035sl, 6055uk, 6115, 6180uk, 11830uk, 11855as, 17825, 17860, 21670	2300-2400	NA	U. S. A.	WWCR	5070, 7435, 9475, 13845
2100-2200	As	U. S. A.	V. of America	9705, 11870, 15185, 17740, 17820	2330-2400	NA	Netherlands	R. Netherlands	6165bo, 9845bo
2100-2200	LA, Eu, Af	U. S. A.	WYFR	13855, 15120, 17725, 17845, 18980	2330-2400	NA	Lithuania	R. Vilnius	9875
2100-2200	Eu	U. S. A.	V. of America	6040, 6095, 9530, 9760	2330-2400	As	U. S. A.	V. of America	7190, 7200, 7225, 7260, 9545, 11805, 11925, 13735, 13775
2100-2200	Eu	Romania	R. Romania Int'l	9510, 9725, 11740, 11940	2330-2400	SA	Switzerland	Swiss R. Int'l	9885, 11905fg
2100-2200	NA, Eu	North Korea	V. of Korea	4405, 11710, 13760, 15245	2330-2400	As, Oc	Australia	R. Australia	9660, 11695, 12080, 13620, 15230, 15415, 17715, 17795, 21740
2100-2200	Eu	Bulgaria	R. Bulgaria	9400, 11900	2345-2400	As	Pakistan	R. Pakistan	11580, 15455
2100-2200	Eu	Ukraine	R. Ukraine Int'l	5905, 6020, 9950, 11705, 11950	24 hours	NA	Canada	CFRX	6070
2100-2200	Af	United Kingdom	BBC	3255, 6005, 6190, 6195, 9410, 11835, 15400	24 hours	NA	U. S. A.	WJIE	7490, 13595
2100-2200	As	United Kingdom	BBC	3915, 6195, 9740	24 hours	NA	U. S. A.	WTJC	9370
2100-2200	Af, Su	Spain	R. Ext. Espana	9840	24 hours	NA	U. S. A.	AFRTS	4319 USB, 6458.5 USB, 12579 USB, 12689.5 USB
2100-2200	Eu	South Korea	R. Korea Int'l	15575	24 hours	Oc	Guam	AFRTS	5765 USB, 13362 USB
2100-2200	Af	Austria	AWR	15355	24 hours	Oc, NA, Eu	Hawaii/Iceland	AFRTS	6350 USB, 10320 USB
2100-2400	LA	United Kingdom	BBC	5975an, 12095as					

(PRIME TIME SHORTWAVE <<http://www.triwest.net/~dsampson/shortwave/>>)

Website of the **BeneLux DX-Club (BDXC)** has a complete new layout. It's not completely finished yet, but you can check it out via <<http://www.bdxn.nl>>. (Jan Nieuwenhuis, 30.9.2002)

The **Handy Shortwave Chart** by Bill McFadden posted monthly at Usenet Group rec.radio.info. Band allocations and time zone conversions for the USA. Includes broadcast bands used outside the USA. Also includes WARC-92 broadcast band extensions, which may be used before April 1, 2007 on a secondary (non-interference) basis. For multi-use bands, most common usage is shown. Some stations operate outside the official bands. Information is from NTIA allocations table, see: <<http://www.ntia.doc.gov>>.

SHORTWAVE BROADCAST BANDS			UNITED STATES TIME ZONES					
					PDT	MDT	CDT	EDT
			GMT	PST	MST	CST	EST	
-----								
2300 - 2495	120 Meters							
3200 - 3400	90 Meters							
3900 - 4000	75 Meters							
4750 - 5060	60 Meters		0000	4 PM	5 PM	6 PM	7 PM	8 PM
5900 - 6200	49 Meters		0100	5 PM	6 PM	7 PM	8 PM	9 PM
7100 - 7350	41 Meters		0200	6 PM	7 PM	8 PM	9 PM	10 PM
9400 - 9900	31 Meters		0300	7 PM	8 PM	9 PM	10 PM	11 PM
11600 - 12100	25 Meters		0400	8 PM	9 PM	10 PM	11 PM	12 AM
13570 - 13870	22 Meters		0500	9 PM	10 PM	11 PM	12 AM	1 AM
15100 - 15800	19 Meters		0600	10 PM	11 PM	12 AM	1 AM	2 AM
17480 - 17900	16 Meters		0700	11 PM	12 AM	1 AM	2 AM	3 AM
18900 - 19020	15 Meters		0800	12 AM	1 AM	2 AM	3 AM	4 AM
21450 - 21850	13 Meters		0900	1 AM	2 AM	3 AM	4 AM	5 AM
25670 - 26100	11 Meters		1000	2 AM	3 AM	4 AM	5 AM	6 AM
			1100	3 AM	4 AM	5 AM	6 AM	7 AM
			1200	4 AM	5 AM	6 AM	7 AM	8 AM
			1300	5 AM	6 AM	7 AM	8 AM	9 AM
			1400	6 AM	7 AM	8 AM	9 AM	10 AM
			1500	7 AM	8 AM	9 AM	10 AM	11 AM
			1600	8 AM	9 AM	10 AM	11 AM	12 PM
			1700	9 AM	10 AM	11 AM	12 PM	1 PM
			1800	10 AM	11 AM	12 PM	1 PM	2 PM
			1900	11 AM	12 PM	1 PM	2 PM	3 PM
			2000	12 PM	1 PM	2 PM	3 PM	4 PM
			2100	1 PM	2 PM	3 PM	4 PM	5 PM
			2200	2 PM	3 PM	4 PM	5 PM	6 PM
			2300	3 PM	4 PM	5 PM	6 PM	7 PM

AMATEUR PHONE BANDS

1800 - 2000	160 Meters		1500	7 AM	8 AM	9 AM	10 AM	11 AM
3750 - 4000	75 Meters		1600	8 AM	9 AM	10 AM	11 AM	12 PM
7150 - 7300	40 Meters		1700	9 AM	10 AM	11 AM	12 PM	1 PM
14150 - 14350	20 Meters		1800	10 AM	11 AM	12 PM	1 PM	2 PM
18110 - 18168	17 Meters		1900	11 AM	12 PM	1 PM	2 PM	3 PM
21200 - 21450	15 Meters		2000	12 PM	1 PM	2 PM	3 PM	4 PM
24930 - 24990	12 Meters		2100	1 PM	2 PM	3 PM	4 PM	5 PM
28300 - 29700	10 Meters		2200	2 PM	3 PM	4 PM	5 PM	6 PM

AMATEUR CW BANDS

1800 - 2000	160 Meters
3500 - 3750	80 Meters
7000 - 7150	40 Meters
10100 - 10150	30 Meters
14000 - 14150	20 Meters
18068 - 18110	17 Meters
21000 - 21200	15 Meters
24890 - 24930	12 Meters
28000 - 28300	10 Meters

OTHER BANDS

153 - 279	Longwave, Non-US, 9kHz Spacing
540 - 1700	Mediumwave, 10 kHz Spacing
531 - 1602	MW, Non-US, 9 kHz Spacing
1900 - 2000	Radiolocation
13360 - 13410	Radio Astronomy
25550 - 25670	Radio Astronomy
25850 - 26100	Remote Broadcast Pickup
26960 - 27410	Citizens' Band

FIXED SERVICE BANDS

1705 - 1800	13800 - 14000
2107 - 2170	14350 - 14990
2194 - 2850	15600 - 16360
3155 - 3400	17410 - 17550
4438 - 4650	18030 - 18068

AIRCRAFT BANDS

2850 - 3155
3400 - 3500
4650 - 4750
5450 - 5730
6525 - 6765

MARINE BANDS

2000 - 2107
2170 - 2194
4000 - 4438
6200 - 6525
8100 - 8815

LAND MOBILE

25010 - 25070
25210 - 25330
26175 - 26480
27410 - 27540
29700 - 29800

# 16

4750 - 5450	18168 - 18780	8815 - 9040	12230 - 13200	
5730 - 5950	18900 - 19680	10005 - 10100	16360 - 17410	
6765 - 7000	19800 - 21000	11175 - 11400	18780 - 18900	US GOVERNMENT
7300 - 8100	21850 - 21924	13200 - 13360	19680 - 19800	
9040 - 9500	22855 - 23200	15010 - 15100	22000 - 22855	25330 - 25550
9900 - 9995	23350 - 24890	17900 - 18030	25070 - 25210	26480 - 26950
10150 - 11175	26950 - 26960	21924 - 22000	26100 - 26175	27540 - 28000
11400 - 11650	29800 - 29890	23200 - 23350		29890 - 29910
12050 - 12230	29910 - 30000			
13410 - 13600				

(Bill McFadden at Usenet rec.radio.info via JKB, 1 Oct 2002)

**NEPAL:** During the past few days noted *Radio Nepal* is testing 6100 (still unannounced) only in the afternoon but from this morning 25th Aug. they've started the morning sced as well on 6100 kHz at 2345 onwards. But both 5005 and the new 6100 kHz is closing at 1545 (some days one minute later). They've extended the MW transmission until 1815 while SW is closing at 1545. They've revised the English news timings, which is now at 0215, 0815, 1415 & 1745 - all 10min duration. The last one at 1745 hrs is only available on the MW. (Alok Dasgupta via BC-DX #588, 2002 Aug 25)

Fax: 977-1-221952 and postal address: Radio Broadcasting Service, P.O. Box 634, Singha Durbar, Kathmandu, Nepal. (JKB)

**PAKISTAN:** Frequencies change for *Radio Pakistan*:

1245-1315 Turki and 1315-1400 Russian new 9396v, ex 9500v. No signal on \ 7355. (Ivanov and Datzinov in OBSERVER #202, via Nedjalkov via WB; September 06, 2002)

**POLAND:** The new leadership of *Radio Polonia* has decided to continue using the SW facilities at the Leszczynka transmitting centre during the winter season and not to move to relays abroad. However, a further reduction of the transmission times is under consideration. (Bernd Trutenau via DXLD #2-138, 2002 Sept 3)

**RUSSIA:** Some frequencies changes for *Voice of Russia* effective from September 29, 2002:

1500-1600 Russian NF 7130, ex 17580

1730-1800 Arabic NF 7130, ex 15595

1830-1900 Arabic NF 7130, ex 15595

(OBSERVER #207 by Ivo Ivanov and Angel Datzinov, via WB, 2002 Sep 24)

Advance information from the *Voice of Russia* is that it plans to use the 120 metre band (!) for services to Australia and SEA, for B-02, effective Oct-27. This is very unusual, and the planned frequency is 2300 kHz, with 250 kW from Irkutsk, 0600-0900, azimuth 150 degrees. Interestingly, 2310, just nearby, is used by the ABC's NT service at Alice Springs, 0830-2130. (BP - EDXP via DXLD #2149, 2002 Sept 22)

**SINGAPORE:** *Radio Singapore International*'s English broadcast is from 1100-1400 on 6150 and 9600 kHz, the former frequency heard best here in California. This info comes from the bottom of the following RSI Web page: <<http://www.rsi.com.sg/en/schedule/week.htm>>. (Mark Gingrich at usenet group rec.radio.shortwave via JKB, 14.8.2002)

The Singapore Broadcasting Authority abandoned all MF broadcasting some years ago, in favour of VHF. A modest HF capacity survives, from Kranji, operating to this general schedule:

6000 Mandarin \*2300-0800\*, \*0900-1100\*, \*1400-1600\* (250 kW)

6150 English \*2300-0800\*, \*0900-1100\*, \*1400-1600\* (250 kW)

7170 Tamil \*2300-1600\* (100 kW)

7235 Malay \*2300-0900\*, \*1200-1600\* (250 kW)

Notes:



1. The English service consists of relays of these VHF networks:

Gold 90.5

Classical 95.0

Perfect-10 98.7

NewsRadio 93.8

Symphony 92.4

Passion 99.5

2. The Mandarin service comprises relays of:

Capital Radio 95.8

Love 97.2

Y.E.S. 93.3

3. The Malay service takes relays of:

Warna 94.2

RIA 89.7

4. The Tamil service relays OLI 96.8

5. The External Service, Radio Singapore International, is intended for neighbouring countries, with transmitters at Kranji, co-sited with the Merlin facility, and sharing transmitters with the Domestic Service. For general information, here is the current (September 2002) schedule for RSI:

1100-1400 6150 9600 English

0900-1200 7235 9665 Malay

1200-1400 7235 9665 Indonesian

1100-1400 6000 9560 Mandarin

(EDXP #267 via Jembatan DX #136 via WDXC-HQ, No Date given by Jembatan [Ed.])

**TANZANIA:** Since yesterday (23 September) I'm hearing *Radio Tanzania* on reactivated 7280 kHz. I've not heard it on this frequency for many months, perhaps not since last year. Parallel frequency 5050 continues to be heard. I've yet to confirm the times of operation on 7280 (it was there yesterday lunchtime but had gone by the evening). (Chris in Nairobi Greenway, DXLD #2149, 26 Sept 2002)

**THAILAND:** Domestic HF broadcasting is virtually extinct., with extensive and increasing use being made of MF and VHF for local and regional services by the Government broadcasting authority. For many years, dating back to the 1960's, HF domestic broadcasting was carried from several transmitters located at Bang Phun, in Pathum Thani, in the time span \*2200-1730\*, using 4830 6070 7115 9655 and 11905. The latter two frequencies also carried relays of the External Service at times when the domestic program was not broadcast. Around early 2001, 4830 9655 and 11905 were closed down, and 6070 and 7115 remained in use on a very limited basis from 1100-1215, carrying relays of the External Service in Vietnamese, Khmer, Lao, Burmese, and Malay. These relays are currently active. The 60 mb outlet of 4830 has been in intermittent operation since mid-2001, carrying relays of Radio Thailand's Network-3, in English, in parallel with MF 918 kHz (Bangkok). This HF operation was set up to cater for the large influx of English-speaking tourists visiting areas outside of Bangkok, particularly the southern beaches at Phuket (and nearby areas), and the northern cities of Chiang Mai, and Chiang Rai. It may now have closed down, as it was not audible at any time during my trip, during July. Only one non-Governmental station was noted - this originates from the Royal Household in Bangkok, with 10 kW, using 6148. This "split frequency" channel was audible at good level during local evening hours in Thailand and in nearby countries, around 0930-1100. However, severe interference is caused by the Radio Singapore domestic HF service on 6150 - the 2 kHz het was very annoying.

(EDXP #267 via Jembatan DX #136 via WDXC-HQ, No Date given by Jembatan [Ed.])

**UNITED KINGDOM:** Follow up unidentified station in JAPAN PREMIUM No. 223, the religious station on 11645 kHz is identified as The *Bible Voice Broadcasting Network*. Aug. 18, S/on at 2000 with music and ID in English "You are listening to the Bible Voice Broadcasting Network. You can reach us by mail at Post Office Box 220, Leeds, LS26 OWW in the United Kingdom....", followed by religious program. It seems that they broadcast Sundays only. (Nagatani in "Japan Premium" #226, via CONEXION #174 via WDXC-HQ, 2

Sep 2002)

**USA:** It has been reported that the two girls *Brother Stair* is accused of diddling are black. They are also young. Brother Stair is in his old form once again, threatening to go off various stations if listeners don't send funds. He did say on the morning of Sept 16, in a live break-in to the normal tapes he plays, that he's satisfied with his support from WCCR. (Robert Arthur in DXLD #2149, 2002 Sept 17)

It seems, that in this times for fighting against terror, it is harder for people to practice their *DX hobby* in the U.S. In the last weeks there are several threads in Usenet rec.radio.shortwave discussing that fact: Michael Bryant, WA4009SWL, Louisville, KY, for example wrote: "Two weeks ago, a police officer showed up at my door. He said that one of my neighbors in my apartment complex had called them concerned about why someone would play so much mideastern music. Fortunately, he was a radio enthusiast, himself, so he got quite a kick of playing with a few of my radios and checking out my indoor antenna set-ups!". And DeWayne, KE9K, wrote: "I remember taking the card to work in my Bible case and showed it to a fellow worker. I only did that once. He asked why I get mail from Voice Of Vietnam with a sneer on his face. Glad I didn't tell him about the flood of mail from Cuba and China." (Excerpts from usenet rec.radio.info via JKB, Sept 2002)

**VATICAN:** *Vatican Radio* has begun broadcasting in Hausa for first time. A spokesman for the station told journalists that the broadcasts are aimed particularly at northern Nigeria, although they will also reach millions of Hausa speakers in neighbouring countries. The programmes are produced by a Catholic communications centre in Kaduna. The service was started at the requests of Catholic bishops in the region, which was the scene of rioting between Muslims and Christians two years ago, when 2000 people were killed. Kaduna and 11 other states in northern Nigeria have been under Islamic Sharia law since the country returned to civilian rule in 1999. The broadcasts are on the air daily at 0700-0715 UTC on 11625, 13765 and 15570 kHz. (© RNMN via JKB, 8 October 2002)

**VIETNAM:** The *Voice of Vietnam* continues to use several HF channels for relaying its Domestic Service to rural areas.

5925 \*2200-1600\* (XM) 50 kW

5975 \*2200-1600\* (ST) 50 kW

6020 \*2200-1600\* (ST) 20 kW

7210 \*2200-1600\* (ST) 20 kW

9530 \*2200-1400\* (ST) 50 kW

9875 \*0200-1000\* (ST) 50 kW

These channels carry relays of Networks 1, 2, 3 or 4, to a varying schedule, in Vietnamese, as well as programming in various dialects for ethnic communities.

Network 1: Mainly news

Network 2: Mainly educational and cultural features]

Network 3: Music and news

Network 4: Programming for ethnic minorities

At 0200, 5925, 5975 6020 7210 9530 and 9875 all carry the same news summary from Hanoi.

The Hmong Service, which is part of Network 4, has recently extended its transmission hours, to accommodate extended broadcasts to ethnic minorities, as foreshadowed in EDXP earlier in 2002. New frequencies in the 9 MHz band are now in use, to improve coverage during daylight hours. This is now heard:

5035 \*2200-0000\* (XM) 15 kW (previously \*2200-2300\*)

5035 \*1130-1330\* (XM) 15 kW (previously \*1200-1200\*)

6165 \*2200-0000\* (XM) 50 kW (previously \*2200-2300\*)

6165 \*1130-1330\* (XM) 50 kW (previously \*2200-2300\*)

9855 \*0430-0600\* (XM) 50 kW (previously \*0500-0600\*, new frequency)

9650 \*0430-0600\* (XM) 50 kW (additional new frequency)

Both of the new frequencies 9855 and 9650 gave excellent reception in the countries I visited. Until recently, the morning and evening services were carried on 5 and 6 MHz, and the midday service only on 6 MHz. Now, the midday broadcast is on 9 MHz. Transmitter

locations:

XM Xuan Mai

ST Son Tai

Note:

The transmitter operating on 9875 also carries the VOV Asian Service (Network-6) at other times, on 7285, to this schedule:

0000-0030 Khmer

0030-0100 Lao

1100-1130 English

1130-1200 Thai

1200-1230 Khmer

1230-1300 Lao

1300-1330 Russian

1330-1400 Khmer

1400-1430 Lao

1430-1500 Mandarin

1500-1530 Cantonese

Domestic radio broadcasting in Vietnam is being continually developed and extended. Population coverage is now more than 90%, and the government plans for each household to have at least one radio set. There are 61 provincial stations and 528 district stations, including 319 operating on VHF. The remainder are on MF. There are also over 5000 public address systems operating at village level. Half of the district stations have been upgraded to achieve better coverage, and all remote and mountain districts now have low powered VHF transmitters.

(EDXP #267 via Jembatan DX #136 via WDXC-HQ, No Date given by Jembatan [Ed.]

**YUGOSLAVIA:** *Radio Yugoslavia* heard again on shortwave effective from Sep. 21:

1430-1458	Daily	11800 130 deg	Arabic	to ME	>> no txion on Sep. 23!
1500-1528	Daily	11870 040 deg	Russian	to RUS	
1530-1543	Daily	6100 non-dir	Hungarian	to Eu	
1545-1558	Daily	6100 130 deg	Greek	to SoEaEu	
1600-1628	Daily	9620 310 deg	French	to WeEu	>> co-ch RL Armenian
1630-1658	Daily	9620 310 deg	German	to WeEu	>> co-ch RL Armenian
1700-1713	Daily	6100 180 deg	Albanian	to SoEaEu	
1715-1728	Daily	6100 130 deg	Bulgarian	to SoEaEu	
1730-1758	Daily	9620 310 deg	Italian	to WeEu	>>QRM RFE Serbian 9625
1800-1828	Daily	6100 040 deg	Russian	to RUS	
1830-1858	Daily	6100 310 deg	English	to WeEu	
1900-1928	Daily	7200 250 deg	Spanish	to SoEu	>> co-ch VOIROI Hebrew
1930-1958	Sun - Fri	6100 310 deg	Serbian	to WeEu	
1930-2028	Sat only	6100 310 deg	Serbian	to WeEu	
2000-2028	Sun - Fri	6100 310 deg	German	to WeEu	
2030-2058	Daily	6100 310 deg	French	to WeEu	
2100-2128	Daily	6100 310 deg	English	to WeEu	
2130-2158	Sun - Fri	7230 100 deg	Serbian	to AUS	
2130-2228	Sat only	7230 100 deg	Serbian	to AUS	
2200-2228	Sun - Fri	7230 100 deg	English	to AUS	
2230-2258	Daily	9580 055 deg	Chinese	to SoEaAs	
2300-2328	Daily	9680 265 deg	Spanish	to SoAmWe	
2330-2358	Mon - Sat	9580 310 deg	Serbian	to NoAmEa	
2330-0028	Sun only	9580 310 deg	Serbian	to NoAmEa	
0000-0028	Mon - Sat	9580 310 deg	English	to NoAmEa	
0030-0058	Daily	9580 310 deg	Serbian	to NoAmEa	>>relay HS Belgrade 1
0430-0458	Daily	9580 325 deg	English	to NoAmWe	

(OBSERVER #207 by Ivo Ivanov and Angel Datzinov, via WB, 2002 Sep 24)

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**Sources & Contributors:**

BC-DX	News Bulletin by Wolfgang W. Bueschel - Germany.
BP	Bob Padula - Australia.
CONEXION	CONEXION Digital - Buenos Aires, Argentina.
DXLD	Glenn Hauser's DX LISTENING DIGEST - USA.
EDXP	Electronic DX Press, Bob Padula - Australia.
GIB	Gabriel Ivan Barrera - Argentina.
HJB	Dr. Hansjoerg Biener, Amberg - Germany.
JKB	Dr. Juergen Kubiak, Berlin - Germany.
NASWA	North American Shortwave Association - USA.
OBSERVER	Fortnightly edition of Radio Bulgaria's Frequency Management.
RNMN	R. Netherlands Media Network ©.
WB	Wolfgang W. Bueschel, Stuttgart - Germany.
WWDXC-HQ	WWDXC Headquarter, Michael Bethge - Germany.

**Abbreviations:**

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

<i>Languages:</i>	<i>Other common abbreviations:</i>
Ar Arabic	bc broadcast
Ch Chinese	lsb Lower Side Band Mode
Du Dutch	nd non-directional
E English	px program
F French	sce(d),
G 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	ddmmyy (daymonthyear)
R Russian	dd.mm.yy (day.month.year)
Sp Spanish	
Turk Turkish	

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# DX LOGBOOK

## Logs around the clock

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### TROPICAL BANDS

Frequ.	UTC	SIO	ITU	Radio Station	Language	Programme Details	Date	Rep.
3205.0	0908	232	B	Radio Ribeirao Preto	Portugese	Catholic talks	0109	ALS
3220.0	0950	242	EQA	HCJB,Pifo	Quechua	Commentary,Folk music	0109	ALS
3234.9	0155	232	PRU	Radio Luz y Sonido,Huanuco	Spanish	Music,Greetings and ID	0109	ALS
3255.1	0954	242	B	Radiodifusora 6 de Agosto,Xapuri	Portugese	Romantic music and ID	0109	ALS
3266.4	1305	332	INS	RRI,Garontalo	Indonesian	Jakarta New relay	0809	KH
3289.9	0945	232	EQA	Radio Centro	Spanish	Folk music	0109	ALS
3300.0	0138	242	GTM	Radio Cultural,	Spanish	Music and Commentary	0109	ALS
3320.0	0411	222	AFS	SABC	Afrikaan	Religious choir Music	2007	RAD
3325.0	1059	332	INS	RRI,Plangkaraya	Indonesian	Local News	2308	KH
3355.0	1145	222	PNG	Radio Simbu	Pidgin	Pop Music program	1509	JY
3365.0	0911	343	B	Radio Cultura, Araraquara	Portugese	Local Advts and Ann.	0109	ALS
3375.1	0034	242	PRU	Radio San Antonio,Padua de Callali	Spanish	Ann and Advts.	0109	ALS
3375.1	0938	242	B	Radio Nacional San Gabriel	Portugese	Romantic music	0109	ALS
3905.0	1140	322	INS	RRI,Merauke	Indonesian	Local Pops	1709	JY
3976.0	1411	343	IND	RRI,Pontianak	Indonesian	Talk and ID	1608	KH
4389.0	0926	242	PRU	Radio Imperio, Chiclayo	Spanish	Andean & romantic music	0109	ALS
4421.7	0011	141	PRU	Radio Bambamarca, Hualgayoc	Spanish	Andean Tropical music	0109	ALS
4485.7	0019	242	PRU	Radio Frecuencia VH,Celendin	Spanish	Religious commentary	0109	ALS
4606.5	1131	333	INS	RRI,Serui	Indonesian	IS,ID,Local News	2508	KH
4649.1	2248	343	BOL	Radio Santa Ana de Yacuma	Spanish	Romantic Music and ID	3108	ALS
4681.7	2236	242	BOL	Radio Paititi,Guayaramerin	Spanish	Tropical music	3108	ALS
4716.8	1000	343	BOL	Radio Yura,Yura	Spanish	ID and Talks	0309	NE
4747.0	2316	242	PRU	Radio Huanta 2000,Huanta	Spanish	Religious Program	0109	ALS
4753.3	1154	443	INS	RRI,Makassar	Indonesian	Talks and ID	2508	KH
4761.3	1003	242	BOL	Radio Guanay,Guanay	Spanish	Tropical music	0191	ALS
4775.0	2321	242	PRU	Radio Tarma,Tarma	Spanish	Andean Tropical Music	3108	ALS
4775.0	2240	242	B	Radio Congonhas,Congonhas	Portugese	Commentary,Music	3108	ALS
4775.0	1207	333	IND	All India Radio,Imphal	Hindi	Chorus music and talks	0809	KH
4781.4	1016	242	EQA	Radio Oriental,Tena	Quechua	Commentary	0109	ALS
4795.0	1755	323	RUS	Radio Buryat	Russian	Music and talks	1609	ZL
4795.8	1315	221	VTN	Son La BC	Vernacular	Local Music program	1509	JY
4796.4	1014	333	PRU	Radio Malku	Quechua	Talk and ID	0109	NE
4820.0	0252	221	BOT	Radio Botswana	Vernaculars	ID and Vocals	2407	RAD
4825.0	2301	333	B	Radio Can,Jo Nova	Portugese	Music,Comments	3108	NE
4826.4	1046	242	PRU	Radio Sicuani	Spanish	Huaynos and ID	0109	ALS
4856.1	2324	343	PRU	Radio La Hora,Cusco	Spanish	Commentary	3108	ALS
4875.0	0107	343	B	Radiodifusora,Boa vista,Roraima	Portugese	ID,Romantic music	0109	ALS
4879.1	1025	242	PRU	Radio Comas,Comas	Spanish	Ann. And Andean music	0109	ALS
4890.0	1340	433	PNG	NBC,Port Moresby	English	Pop music,sign off	2209	JY
4895.0	2331	343	B	IPB-AM,Campo Grande	Portugese	Religious Program	3108	ALS
4919.0	1020	242	EQA	Radio Quito,Quito	Spanish	Romantic Music and ID	0109	ALS

4925.0	1357	333	INS	RRI,Jambi	Indonesian	Local music and talk	2208	KH
4945.0	0120	242	B	Radiodifusora, Porto de Caldas	Portugese	Talks and ID	0109	NE
4950.2	1030	242	PRU	Radio Madre de Dios,Puerto Maldo.	Spanish	ID and National Anthem	0109	ALS
4955.0	2334	232	PRU	Radio Cultural Amauta,Huanta	Quechua	Religious Program	3108	ALS
4959.0	0201	343	DOM	Radio Cima ,Santo Domingo	Spanish	Vocals with ID	0310	DC
4976.0	2055	332	UGA	Radio Uganda	Swahili	African pop music	1209	KH
4991.0	0314	222	SUR	Radio Apintie		Pop Vocals	2207	RAD
4995.6	0305	333	PRU	Radio Andina	Spanish	Religious Talk and ID	0408	RAD
5009.6	0202	242	PRU	Radio Altura,Cerro de Pasco	Spanish	Greetings and ID	0109	ALS
5009.9	0024	232	DOM	Radio Pueblo, Santo Domingo	Spanish	Music and greetings	0109	ALS
5019.9	2343	242	PRU	Radio Horizonte,Chachapoyas	Spanish	Music and Ann.	3108	ALS
5055.0	0904	343	B	Radiodifusora,Caceras	Portugese	Romantic music,local advts.	0109	ALS
5470.8	0052	232	PRU	Radio San Nicolas,San Nicolas	Spanish	Andean Tropical music	0109	ALS

## SHORTWAVE BANDS

Frequ.	UTC	SIO	ITU	Radio Station	Language	Programme Details	Date	Rep.
5500.2	2347	444	PRU	Radio San Miguel	Spanish	Tropical andean music and ID	3107	ALS
5678.0	0222	333	PRU	Radio Ilucan,Cutervo	Spanish	Talk and ID	2507	RAD
5835.0	2100	242	RUS	Radio Nederland via Kaliningrad	Dutch	Newsline and Sports	2808	IN
5865.0	1910	555	GRC	ERT,Kavala	Greek	European League Matches	2409	WB
5910.0	1515	121	UZB	Democratic Voice of Burma	Burmese	Program	0509	WB
5930.0	0126	433	SVK	Slovak Radio	English	Radio Slovakia Today	0309	RL
5940.1	2352	343	PRU	Radio Bethel, Arequipa	Spanish	Romanticmusic and ID	3108	ALS
5996.7	1042	242	PRU	Radio Melodia,Arequipa	Spanish	News,Comments on football	0109	ALS
6010.0	0829	343	CHL	Radio Parinacota,Putre	Spanish	Music and ID	0109	ALS
6015.0	1630	555	D	Universal Life	German	Swenden	2908	WB
6040.0	0903	332	B	Radio Clube Paranaense	Portugese	Talks	0608	RAD
6115.0	0234	322	ALB	Radio Albania	English	Comments	0109	SM
6117.9	0918	343	PRU	Radio Union,Lima	Spanish	Local music and ID	0109	ALS
6134.8	0918	322	BOL	Radio Santa Cruz	Spanish	Vocals & ID	0608	RAD
6140.0	1116	242	CUB	Radio Rebelde	Spanish	Music and ID	1808	IN
6155.1	1045	332	BOL	Radio Fides	Spanish	Talks	2308	KH
6173.8	1051	343	PRU	Radio Tawantinsuyo,Cusco	Quechua	Folk music	0109	ALS
6175.0	0250	444	CAN	Voice of Vietnam via Sackville	Vietnamese	Vocal music and ID	0109	SM
6193.6	2356	343	PRU	Radio Cusco,Cusco	Spanish	Huaynos and ID	3108	ALS
6249.3	0002	232	PRU	Radio la voz de Andahuaylas	Spanish	Andean muisc	0109	ALS
6265.0	0248	433	ZMB	Zambia National BC	English	IS,ID and Vocals	0408	RAD
6535.8	0006	141	PRU	Radio difusoras Huancabamba	Spanish	Local advts and huaynos	0109	ALS
6537.3	0841	343	BOL	La Voz del Campesino, Sipe Sipe	Spanish	Local Music	0109	ALS
6797.6	2311	222	PRU	Radio Ondas del Rio Mayo	Spanish	Anncts.	3108	ALS
6819.6	2307	232	PRU	La voz de las Huaringas	Spanish	Andean cumbia	3108	ALS
6940.0	1512	232	ETH	Radio Ethopia	Amharic	Talks and pop songs	1708	KH
6956.7	2303	342	PRU	Radio La Voz del Campesino	Spanish	Andean music	3108	ALS
7105.0	1650	443	BLR	Belarus Radio	Belarussian	Music Radio	2908	WB
7200.0	1700	222	SDN	SNBC,Omdurman	Arabic	Koran recitation	2908	WB
7260.0	0820	343	VUT	Radio Vanuatu	Pidgin	Music,Talk and ID	1609	KH
7285.0	1730	343	UZB	Radio Tashkent	Uzbek	ID, Frequency announcements	2908	WB
7305.0	0245	444	CVA	Vatican Radio	French	Comments	0109	SM
7420.0	2115	342	RUS	Radio Gardarika	Russian	Pop music and ID	1209	KH
7430.0	1700	232	RUS	Bible Voice Bcing via Armavir	Russian	Program with English ID	2708	WB
7445.0	0733	553	CTR	RFPI,Costa Rica	English	RFPI Mailbag	1109	RL
7480.0	1710	444	LTU	Radio Barabari via Situkunai	Persian	Sermon	2908	WB
9400.0	0257	543	BUL	Radio Bulgaria, Sofia	English	Radio Bulgaria calling	0109	RL
9435.0	0410	333	ISR	KOL Israel	English	Newscast	1009	SM
9465.0	1850	333	MRA	KFBS Saipan	German	Program	2308	MF

9530.0	1720	333	UZB	Radio Tashkent	Turkish	Arabic music and songs	2908	WB
9555.0	1440	433	THA	VOA via Udon Thani relay	Persian	Comments	2708	WB
9569.9	1745	332	ALB	Radio Tirana	German	Folk song	2908	WB
9634.9	0810	131	MLI	RDTV Malienne,Bamako	French	News	0809	WB
9645.2	0024	333	B	Radio Bandeirantes	Portugese	ID and Talks	0208	RAD
9704.2	1521	332	ETH	Radio Ethopia	Amharic	Talks	1708	KH
9725.0	1750	333	AUT	Voice of Vietnam via Moosbrun	Vietnamese	Program	2908	WB
9735.0	1300	222	RUS	Voice of Russia via Samara	Russian	Comments	2409	WB
9800.0	2057	333	BUL	Radio Varna	Bulgarian	Chorus Music	0109	KH
9815.0	1435	454	AUT	TWR via Moosbrun relay	Russian	Bible Reading	2609	WB
9870.0	0322	553	CZE	Radio Prague	English	Magazine	3108	RL
9875.0	2336	553	LTU	Radio Vilinius	English	National Energy strategy	0309	RL
9885.0	2351	553	D	Swiss Radio Intl.,	English	Newsnet	0509	RL
9925.0	1500	454	LTU	Radio Dat via Sitkunai relay	Russian	Kazak opposition radio	2509	WB
9970.0			NLA	RTBF International	French	George Harrison		
9990.0	2335	222	EGY	Radio Cairo	Arabic	Vocal music	2808	SM
11640.0	1310	221	TJK	Radio Free Asia via Dushanbe relay	Burmese	Program	0509	WB
11655.0	0335	453	TUR	Voice of Turkey	English	Turkish Cuisine	0609	RL
11675.0	0808	453	NZL	Radio New Zealand	English	Mailbox	0909	RL
11695.0	1600	232	UAE	Mission Network via Al Dhabbayya	Malaylam	Religious News	2609	WB
11700.0	0240	553	BUL	Radio Bulgaria	English	Answering letters R.Lemke	0909	RL
11735.0	0240	222	IND	All India Radio	Hindi	Vocals with ID	0608	RAD
11755.0	2028	343	HNG	Radio Budapest	Italian	ID and News	0309	IN
11780.0	0752	343	B	Radio Nacional da Amazonia	Portugese	Talk and ID	1809	KH
11785.0	0757	343	B	Radio Guaiba	Portugese	Talk and ID	1809	KH
11786.8	0745	222	IRQ	Radio Baghdad	Arabic	Koran recital	0809	WB
11840.0	0200	333	RUS	Radio Sakhalin	Russian	ID,Music	1409	KH
11880.0	0350	222	SEY	FEBA Radio, Seychelles	English	Religious Program,ID	1407	RAD
11885.0	0315	444	TUR	Voice of Turkey	Arabic	Music vocals	0109	SM
11900.0	1905	333	BUL	Radio Bulgaria	English	News	2908	SM
11905.0	0029	322	THA	Radio Thailand	English	ID and Vocals	0208	RAD
11925.0	0706	343	B	Radio Bandeirantes	Portugese	Talks and ID	1809	KH
11940.4	1200	332	CBG	National Voice of Cambodia	English	Talk and local music	2209	JY
12110.0	2059	444	GRC	Voice of Greece	Greek	News,Commentary	0309	IN
13565.6	0047	242	PRU	Radio Ondas del Pacifico,Ayabaca	Spanish	Check time & greetings	0109	ALS
13680.0	2318	544	CAN	China Radio Intl., via Sackville	English	Newscast	2808	SM
13735.0	1900	343	UAE	Radio Unmee	Arabic	Music,ID and tAlk	3008	KH
13760.0	1450	333	KRE	Voix du Korea,Pyongyang	French	ID and Program	2708	WB
13820.0	0713	453	CRO	Voice of Croatia	English	ID and into other languages	0909	RL
15037.5	0350	553	CTR	RFPI,Costa Rica	English	Interactive Radio Show	0609	RL
15095.0	1235	343	PHL	FEBC	Bamar	Rock music and talks	1908	ZL
15100.0	1650	444	PAK	Radio Pakistan	Urdu	Program	0709	WB
15120.0	2258	343	NIG	Voice of Nigeria	English	ID,National anthem & sign off	1408	KH
15150.0	2000	443	INS	RRI,Jakarta, Cimanggis	English	News and commentary	2508	ZL
15190.0	1830	343	PHL	Radio Filipinas	Mindanao	Program	3008	MF
15200.0	1250	343	IRN	IRIB	Malay	Talks on Israel & Turkey	1908	ZL
15250.0	1924	444	G	Radio Salama	Hausa	Religious Program	1609	ZL
15265.0	1730	343	D	Radio Africa International	English	ID,Religious Program	2609	WB
15275.0	1520	221	TWN	Radio Taipei Intl	English	Hurling final report	0809	WB
15320.0	0440	333	MDG	Voice of Hope via Madagascar	English	Talk on emergency room	1009	SM
15345.0	2229	343	ARG	RAE,Buenos Aires	Spanish	News and ID	0409	KH
15375.0	0700	343	CHL	Voz Cristiana	Spanish	Talk and ID	1709	KH
15400.0	1250	533	FIN	Radio Finland	English	Finland this morning	0309	RL
15475.5	1920	333	ATA	Radio Nacional Arcangel,S.Gabriel	Spanish	Music,talk and ID	1408	KH
15505.0	0436	444	KWT	Radio Kuwait	Arabic	Comments and music	1009	SM
15565.0	0425	533	NLA	Radio Vlaanderen Intl.,	English	Brussels 1043	0209	RL
15635.0	1125	332	KAZ	Radio Free Asia via Almaty relay	Lao	Commentary	2908	WB

15695.0	1130	221	TJK	Radio Free Asia via Dushanbe	Tibetian	Music	2908	WB
15725.6	1655	232	PAK	Radio Pakistan	Arabic	Koran	0709	WB
15785.0	1555	332	ISR	Galei Zahal	Hebrew	Music, ID and News	0109	KH
17494.8	1420	343	USA	WBCQ	English	Gospel Program	0509	WB
17500.0	0905	121	PAK	Radio Pakistan	Tamil	Program	0709	WB
17520.0	0850	232	PAK	Radio Pakistan	Urdu	Program	0709	WB
17675.0	0325	453	NZL	Radio New Zealand	English	Mailbox	1209	RL
17725.0	1430	121	AFS	Channel Africa	English	UN Earth Summit	2808	WB
17735.0	1542	333	TUN	Rdiff TV Tunisienne	Arabic	Talk and ID	3008	KH
17755.2	0240	322	QAT	Qatar Broadcasting Service	Arabic	Talk, ID and Ann.	0108	RAD
17765.0	1215	332	RUS	Dr. Gene Scott via Samara	English	Evangelic Program	2808	WB
17815.1	0210	221	B	Radio Cultura, Sao Paulo	Portugese	Talks	1907	RAD
17825.0	0358	544	J	Radio Japan	English	ID and sign off	2608	SM
17855.0	1000	343	CHN	China National Radio	Chinese	Talks	1108	ZL
17860.0	1537	533	CAN	Radio Austria Intl	English	Network Europe	0109	RL
17885.0	1140	333	KWT	Radio Pinoy via Radio Kuwait	Tagalog	Music, Talk, ID	1908	ZL
17885.0	1530	232	ASC	Radio Taipei Intl., via Ascencion	English	Hurling sports final report	0809	WB
17895.0	1045	443	IND	All India Radio	English	Old favourite songs	1108	ZL
21465.0	1540	131	G	Radio Taipei Intl. Via Woofferton	English	Hurling Sports final report	0809	WB
21490.0	1220	242	UZB	Voice of Tibet via Tashkent relay	Chinese	Talks and Music	2808	WB
21550.0	1310	333	CHL	Voz Cristiana	Spanish	Talk and ID	1109	KH
21570.0	1435	232	UZB	Voice of Tibet	Tibetian	Music	0509	WB
21670.0	1053	443	ARS	SABC	Indonesian	Arabic song	1908	ZL
21765.0	1140	343	AFS	Channel Africa	English	Economies of the World	2808	WB

### **Thanks a lot for your contributions:**

ALS : Arnaldo L. Slaen, Buenos Aires, Argentina. Sony ICF 2010, Realistic DX-160 & GE Superradio with 15 metres long wire.  
 DC : Daniele Canonica, Switzerland. JRC 535 with 30 metres long wire + MLB + ALA 1530  
 GI : Gaku Iwata, Chiba, Japan. FRG 7700 / NRD 535D, AD30, 20 metres long wire  
 HY : Hiromitsu Yanagisawa, Saitama, Japan. Drake R8 with 10 metres long wire  
 IN : Iwao Nagatani, Kobe, Japan. NRD 525, AD-370 with 20 metres long wire  
 JY : Juichi Yamada, Japan. NRD-525, AR 7030 with Sony AN-1  
 KH : Kouji Hashimoto, Yamanashi, Japan. NRD 525, FRG 7 & RD 9830 with 35 metres long wire  
 MF : Michael Frese, Osnabrueck, Germany. Sony SW 7600 with Telescopic antenna.  
 NE : Nicolas Eramo, Buenos Aires, Argentina. ICOM IC R75 with Windom 30 metres T2FD.  
 RAD : Richard A. D'Angelo, Wyomissing, USA Drake R-8B Lowe HF-150.  
 RL : Richard Lemke, St. Albert, Alberta, Canada. JRC NRD 535 HF with random long wires.  
 SM : Stewart H. Mackenzie, California, USA  
 WB : Wolfgang Bueschel, Stuttgart, Germany. AOR AR 7030, Sony ICF 2010, Kenwood R1000, Drake SPR-4 with 12 metres long wire  
 ZL : Zacharias Liangas, Thessalonki, Greece with Lowe HF-150, Sony ICF 7600D, Yupiteru MVT 7100

Dear Friends,

Welcome to the October issue of the Logbook. This time I like to thank our members who have contributed their loggings. The seasonal changes in frequencies takes place at the end of this month. So expecting more loggings from our Club members for the next month.

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

*Ashok Kumar Bose*



## QSL CORNER

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

Country	Station	QSL	Time	ORG	Remarks	OM
Austria	AWR via Moosbrunn	f/d cd	11-37 ds	9.660	4 cds detail and letter.	PB
Austria	AWR via Moosbrunn	f/d cd	11-51 ds	7.135	4 cds & Table Calendar	PB
Austria	EDXC via AWR Moosbrunn	f/d cd	14 ds	9.660	detailed cds, EUR \$5 RP.	PB
Austria	Radio Austria Int.	L	29 ds	6.155	detailed letter verification.	PB
Austria	ROI/250 Intermedia	f/d cd	43 ds	6.155	Special-QSL 250 Interm, IRC.	PB
Austria	Voice International Ltd.	cd	61 ds	21.550		PB
Belgium	RVI	f/d cd	33 ds	1512 MW	detailed cd and stickers.	PB
Bulgaria	R.Bulgarien/Christo Botev	f/d cd	50 ds	576 MW	detailed cd and letter, schedule.	PB
China	China National Radio 5	L		6.790		RAD
China	China Radio Int.	f/d cd	36-37 ds	9.620	two detailed cards.	PB
China	CRI	f/d cd	32 ds	5.970	detailed card.	PB
China	RCI via Xian	f/d cd	16 ds	15.360	Schedule.	PB
Clandestine	Fang Guang Ming Radio	f/d cd	68 ds	5.925	V/s, Ludo Maes	RAD
Clandestine	Voice of Biafra Int.	f/d cd	134 ds	12.125	V/s, Ludo Maes	RAD
Clandestine	Voice of National Salvation	p/d, L	83 ds	3.481		RAD
CVA	Radio Vatican	f/d cd	51 ds	1530 MW	detailed card.	PB
CZE	Radio Prague	f/d cd	6-11 ds	7.345	two detailed cards.	PB
CZE	Radio Prague	f/d cd	11-13 ds	9.880	two detailed cards.	PB
CZE	Radio Prague	f/d cd	5 ds	5.990	detailed cd and table Calendar	PB
Ecuador	ADDX via HCJB World R.	f/d cd	19 ds	9.765	detailed cd and SASE	PB
Ecuador	AGDX via HCJB World R.	f/d cd	27 ds	9.765	detailed cd.	PB
Ecuador	HCJB World Radio	f/d cd	41 ds	9.780	detailed cd, schedule, calendar	PB
Ecuador	HCJB World Radio	f/d cd	273 ds	11.680	detailed cd, 40 yrs DX Partyline.	PB
Ecuador	HCJB World Radio	f/d cd	38-54 ds	15.550	two detailed cards.	PB
Ecuador	HCJB World Radio	f/d cd	23-53 ds	9.765	five detailed cds.	PB
Ecuador	SWLCS via HCJB World R.	f/d cd	52-56 ds	9.765	two detailed cards.	PB
Germany	Deutschlandfunk	f/d cd	101 ds	6.190		PB
Germany	Hrvatska RTV via Julich	f/d cd	141 ds	9.925	detailed cd and schedule.	PB
Guatemala	Radio Amistad	n/d L	48 ds	4.700	v/s, David Daniell, Media Consultant.	RAD
Ireland	Radio Telefis Eireann	f/d cd	55 ds	567 MW	detailed cd.	PB

Italy	AWR Forli	f/d cd	23 ds	9.740	Last Broadcast.	PB
Japan	NHK Tokushima(JOXX)	f/d cd	5 ds	945 khz	"Program Advertisement" cd	JY
Japan	NHK Okayama(JOKK)	f/d L	10 ds	603 kHz	Full data letter with postcard & pamphlet.	JY
Japan	R.Japan/NHK World	f/d cd	44 ds	11.970	schedule, sticker, calendar	PB
Korea	Voice of Koreas	f/d cd	75 ds	9.325	detailed cd, Magazine.	PB
LUX	China Radio Int.	f/d cd	17-39 ds	1.440	2 detailed cds.	PB
LUX	RTL Radio	f/d cd	29 ds	1.440	detailed cd.	PB
Netherlands	Radio Nederland	f/d cd	50 ds	9.895	detailed cd, sticker.	PB
Peru	R. San Antonio de Padua	e-mail	23 ds	3.375	v/s, Hno Rolando del Carpio Montalvo, Director	RAD
Peru	Radio Maranon	e-mail	27 ds	4.835	v/s, Marco Rumiche Purizaca, Periodsta.	RAD
Peru	Radio Maranon	f/d cd	49 ds	4.835	v/s, Marco Rumiche Purizaca, Periodsta.	RAD
Peru	Radio San Antonio	cd	34 ds	3.375	v/s, Hno.Rolando A.Del Carpio Montalvo, Director	RAD
Pirate (Euro)	Free R. Service Holland	f/d cd	141 ds	7.450	v/s, Peter V	RAD
Pirate (Euro)	Mike Radio, Netherlands	f/d cd	150 ds	9290		RAD
Pirate (USA)	WLIS	cd	150 ds	6.955	v/s, Charles Poltz	RAD
Portugal	Radiodifusao Portuguesa	f/d cd	74 ds	21.725	detailed cd and schedule.	PB
Russia	RCI via Armavir	f/d cd	20 ds	7.425	detailed cd and schedule.	PB
Russia	RCI via Radio Moscow	f/d cd	14 ds	7.430	detailed cd.	PB
SLK	DW via Trincomalee	f/d cd	53 ds	21.790	detailed cd.	PB
SVK	Radio Prague	f/d cd	12 ds	5.990	detailed cd, Calendar.	PB
Switzerland	SRG Musikwalle	f/d cd	29 ds	531 MW	detailed cd.	PB
TKM	Turkmen Radio	f/d cd	50 ds	5.015	v/s, Kakali Garaev. Chief Technical Department.	RAD
United Kingdom	NHK R Japan via Skelton	f/d cd	40 ds	9.660	detailed cd, schedule, sticker.	PB
United Kingdom	NHK R Japan via Skelton	f/d cd	38 ds	11.710	detailed cd.	PB
United Kingdom	RKI via Skelton	f/d cd	16 ds	3.955	detailed cd.	PB
Vatican	Voice of Russia	f/d cd	40 ds	9.675		RAD
Vietnam	Voice of Vietnam	e-mail	79 ds	5035/6135	v/s, Phong Tieng Anh	RAD

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

JY = Juichi Yamada, Japan - Jembatan DX No. 137

PB = Peter E. Boeck, Offenbach, Germany

RAD = Richard A. D'Angelo, Wyomissing, PA, USA - Drake R-88, Lowe HF-150, Alpha Delta DX Sloper, RF Systems Mini-Windom, Datong FL3, JPS ANC-4

## EDXC 2002 Conference

### Pori – Finland • 15. - 18. August 2002

Report by Anker Petersen

One of the best Conferences ever of the European DX Council (EDXC) was held mid August at the modern Spa Hotel Yteri which is located on one of the most beautiful sand beaches of Finland. The sun was shining all the time and it was up to 30°C – double as warm as in Florence (15°C) and while Central Europe was drowning in rain!

The Finnish DX Association (FDXA) which today still counts some 800 DX-ers had thoroughly organized this the 36<sup>th</sup> EDXC Conference. It gathered about 100 Finnish DX-ers and broad-casters and 30 from 13 other countries including Australia, U.S.A., Turkey, Portugal, Ireland, Russia and Lithuania. Eleven of the participants are members of the DSWCI! The organizing committee lead by former EDXC Secretary General Risto Vähäkainu really did a marvellous job, so the Conference became a big success in all aspects !

On the agenda were no less than 36 items and in addition there was a two days visit to Tallinn, Estonia for over 20 of the participants. It will be too much to report on every item, so here are just some highlights. Many photos can be seen on these websites: <<http://www.dxing.info/articles/edxc2002.dx>> and <[www.dswci.org](http://www.dswci.org)>

The first Conference session was on Friday evening where Andrew Janitschek gave an introduction to Radio Free Asia which has been broadcasting since 1996 in nine major Asian languages. About one percent of the population is estimated to listen to the broadcasts even if Mandarin, Korean and Vietnamese are jammed

It was followed by a contest in identifying MW and FM-stations. The " World's best" became Mika Mäkeläinen and no. 2 Jukka Soini, both Finland. No. 3 was Dmitry Mezin, Kazan, Russia.

At 2000 we received a greeting of the city of Pori provided by EU coordinator Kristian Vainio, and after that the FDXA gave a special buffet and special drinks.

The official opening was on Saturday at 0930 with speeches by Luigi Cobisi (EDXC Secretary General), Juha Ignatius(FDXA President) and Risto Vähäkainu. Luigi Cobisi said that today the EDXC still represents some 5000 European DX-ers living in 17 countries. The EDXC Conferences are THE meeting place for DX-ers in Europe where important, personal contacts are made.

Then followed the morning session, first with a presentation of the private Scandinavian Weekend Radio by Trevor Twyman and Esa Saunamäki. SWR is authorized once a year by the Finnish PTT to broadcast. It has ten members and 5-10 supporting members who

pay 50% of the expenses themselves. The rest is paid by commercials, sale of merchandise, and by the town of Virrat. Their biggest expense is the music copyright fees. The two transmitters which Esa and his friends have built now use 50 watts on 49 mb and 100 watts on 25 mb. They and the studio are located out in the forest 15 km from Virrat where nobody lives, so a UFO-detector has been put up.... As we are in Finland, the first building that was built at the station was the sauna ! Now they consider to put a microphone in the sauna... Other plans are better antennas, a second studio and more transmitter power as up to 2.5 kW ERP is allowed. SWR has been heard all over Europe and in North America. SWR had special broadcasts on that day which could be heard at Yteri.

German DX-er Harald Gabler then told about a future German project called the DX Channel which shall provide up-to-date service to DX-ers. Read more later on <[www.dxchannel.com](http://www.dxchannel.com)>

Jukka Kotovirta and other Finnish FM DX experts who are amongst the most experienced in the world then gave us a very interesting FM-DX Show about this part of our hobby with its special equipment. Propagation options were described, but the summer 2002 had been poor in Finland.

From 1300 to 1400 YLE Radio Finland had a special broadcast in English live from the Hotel with the participants as audience. It was confirmed that the external broadcasts in English, German and French probably will cease later this year. Torre Ekblom was interviewed about his successful proposal in 1957 to broadcast a "DX-Corner" in English from the "Finnish Rundradio". The live programme ended with a panel discussion on the future of shortwave broadcasting in general. The conclusion was that in the industrialised world Digital Radio Mondiale (DRM), Satellite and Internet broadcasting will soon take over and there will only be a minor need for SW broadcasts to expatriots and travelling people. In the rest of the world the need for shortwave broadcasts will continue to exist, because the ordinary man cannot afford expensive equipment.

Directly after that we drove by bus to the nearby Pori short wave transmitter site in the forest near the sea at Preiviiki where Chief engineer Esko Huuhka showed around. This new site was inaugurated in 1987 in order to replace the old one from World War II in Pori which now has been surrounded by the city with its 77000 inhabitants. Here are six transmitters: For SW 3 modern ones from Brown Boveri with 500 kW , 1 with 250 kW and the old 100 kW for 6120 kHz. Furthermore a modern 600 kW MW transmitter for 963 kHz which by the way caused a lot of disturbances when DX-ing at Yteri. The MW antenna is 135 meters high and there are SW antennas for all directions. The signals are received from the studios in Helsinki via microwave and the fully automated transmitter is even controlled from a computer in Helsinki and unmanned outside normal working hours!

The station at Preiviiki at present uses all its capacity for Radio Finland, but when the external broadcasts are reduced, the French TDF may buy more than the 49% of the shares it owns today, and then leasing of airtime to other broadcasters is likely.

During the afternoon session Swedish Magnus Wiberg from TERACOM gave us the status of DRM. International technical standards have been developed. The first tests spread too much on the frequency spectrum, but it is now under control within 9 kHz bandwidth. Sony, Bosch, Sangean, AOR and others are expected to have their first DRM receivers on the market in 2003.

It was followed by a AM DX Show about Finnish MW Dxing by active members of the Dxclusive, chaired by Hannu Niilekselä.

When solar activity was at its lowest around 1997, the following impressive number of MW stations were heard in Finland, most in Lapland: 420 stations in Europe outside Iberia and the British Isles, 63 in Africa, 469 in Asia, 35 in the Pacific, 1059 in North America, 148 in Central America and the Caribbean, and 413 stations in South America ! All stations were identified. When geomagnetic storms occur, DX-ing in Lapland is impossible, but in Southern Finland North American stations may still come through.

Two rather new DX-Portals on the internet were introduced: <www.dxing.info> by Mika Mäkeläinen, and the EDXC Portal <www.multimania.com> by Paolo Morandotti.

Then Jarmo Salmi & Simo Soinen talked about collecting radio related items like stamps, pins, T-shirts, old radiobooks etc.

At 2000 the traditional EDXC Banquet dinner was served at the hotel restaurant, followed by presentation of FDXA awards and prizes, a lottery and an enjoyable DX auction.

On Sunday morning Finnish Mika Palo gave a very interesting talk about the Ethiopian Shortwave History and particularly the former Radio Voice of the Gospel – station ETLF. He has been working in Addis Ababa during the past years where he even has reestablished the old tape archive from RVOG. It was on the air 1963-1977 and financed by the Lutheran World Federation with headquarters in the U.S.A. Its aims were to spread the Lutheran belief and to assist in preventing the expansion of Islam and Marxism. It was personally supported by the late Emperor Haile Selassie. Over 90% of the population in Ethiopia were illiterates, so radio was THE media at that time!

The two former RVOG 100 kW transmitters in Gedja 40 km from the capital are nowadays used by Radio Ethiopia External Service, but they only produce about 60 kW according to the Chief Engineer. There are no

funds to maintain its antenna park, so they will only last until the towers fall during a storm!

Then followed the traditional Broadcasters' panel chaired by Mika Mäkeläinen who also represented Radio Finland. Other stations were: Deutsche Welle (Waldemar Krämer and Valentina Jolkver), Radio Vlaanderen Int. (Frans Vossen who the same evening fell in Tallinn and seriously injured his knee, but now is recovering after an operation in Brussels), Voice of Turkey (Osman Erkan and Engin Asena), Radio Free Asia (A.J.) and IBB (VOA, RFE/RL) (Arto Mujunen).

During the whole conference a special DX Shack was built in a nearby hut. Many participants made DX-ing there and mostly on MW comparative receiver and antenna testing was done by Martti Karimies, Vesa-Jussi Rinkinen and Tarmo Kontro. The results were now presented:

### Receivers

1. Best category with highest sensitivity and lowest noise (but also most expensive: 6-7000 Euro!): The professional ITT CR91 and Telefunken E1800.
2. Second category: JRC 525 & 535 and ICOM R9000.
3. Third category: AOR AR7030 and AR7030+ (the latter was a little bit better due to its higher dynamic properties). Both AOR's had more internal background noise than the JRC's. The Palstar R30 is close to the AOR in sensitivity.

### Antennas

A 450 meters Beverage in 3-4 meters height was compared to a 40 meters long and 10 metres high KAZ antenna made of 2.5 mm isolated wire. Both antennas pointed towards the very strong Pori MW transmitter on 963 kHz which was heard with S9 + 50 dB ! The surprising result was that the KAZ antenna gave clearly better results on weak MW-stations, particularly above 1000 kHz and also on SW up to 6 MHz than the long Beverage ! The KAZ was much better able to avoid spurious signals from the Pori transmitter, had a low noise floor and high sensitivity. A drawing of the KAZ antenna can be found on our website <www.dswci.org>. It was invented by Neil Kazaross, thus the name.

After that Risto Vähäkainu gave us a Music Quiz which was won by Alan Pennington, UK.

The final point on the long agenda was the EDXC Club Meeting chaired by Luigi Cobisi. He told us that the EDXC now has 16 member clubs after the Rhein-Main SW Club recently joined. The interest for the EDXC is again increasing in Germany which probably will hold the EDXC Conference next summer in the Frankfurt area. Other possible future venues are suggested by Ireland, Malta and Turkey ! An updated EDXC List of Radio Countries will be published on the EDXC Portal.

On Monday some of us visited the Estonian Radio and TV Houses and the TV Tower in Tallinn.