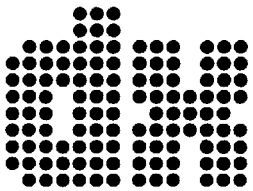


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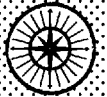
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magazine



WORLD WIDE DX CLUB



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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 2001

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DEADLINE (Redaktionsschluß)

for DX MAGAZINE No. 5 is on
April 19th, 2001, and for DX MA-
GAZINE No. 6 on May 17th, 2001.



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DX MAGAZINE No. 3

Vol. XXXVI

March 2001

Hello again,

Welcome to another issue of our DX MAGAZINE. Since we have no news from inside the club this month, let's just start with our usual news from outside the club:

(Cf. DXM 10/2000, page 3) In October we announced that the international telecommunication exhibition and forum, **ITU TELECOM MIDDLE EAST & ARAB STATES 2001**, will be held in Cairo from 7 to 10 May 2001 at the Cairo International Conference Centre. Due to unforeseen circumstances, the Government of the Arab Republic of Egypt and the International Telecommunication Union have now agreed to postpone the event. The Government of Egypt and the ITU remain fully committed to the organization of the MIDDLE EAST & ARAB STATES event, however, and to exert all possible efforts to ensure its success. Once new dates for ITU TELECOM MIDDLE EAST & ARAB STATES 2001 have been identified, they will both be posted on the ITU TELECOM website and announced in a press release. (ITU)

New editions of the following two hard-copy publications from the Electronic DX Press (Australia) will be available during April 2001: **Australasian Shortwave Guide** (No. 11) and **Australasian Shortwave Digest** (No. 5). The Guide and Digest are available for A\$10 EACH to any address in Australia. Airmail to addresses outside of Australia: US\$10 - international money order (or bank draft) payable at an Australian bank to yield A\$20, cash (any currency to yield A\$20), or 14 IRCs. Orders should be sent to Bob Padula, 404 Mont Albert Rd, Surrey Hills, Victoria 3127, Australia. Payment may be by cash, or by cheque/postal order, for credit of Bob Padula.

Our member Bernd Henning is wondering if someone has received a QSL from St. Helena for their last broadcast in October 1999. He has sent a reception report via email, and there was no reply yet. A while ago he has heard that they had problems printing QSL cards. If anyone has more information on this subject, please contact Bernd directly at the following e-mail address: <E.u.B.Henning@web.de> or via WWDXC headquarter address.

Neu im Verlag für Technik und Handwerk, Postfach 2274, D-76492 Baden-Baden, erschienen ist das **DX-Jahrbuch 2001** von Franz Langner, DJ0ZB, ein umfassendes und kompetentes Nachschlagewerk rund um den Amateurfunk. Auf 196 Seiten mit 188 Abbildungen bietet es alle tabellarischen Übersichten, die man für den Amateurfunk braucht, wie ITU-Landeskenner, QSL-Büros, CQ- und ITU-Zonen und Präfixe, Contest- und Veranstaltungskalender, IARU-Mitgliedsländer und -verbände, alles über das DXCC-Diplom, Europa-Länderliste und vieles mehr. Das Buch ist für DM 24,80 direkt vom Verlag oder im Buchhandel erhältlich (Bestell-Nr. 4110073, ISBN 3-88180-373-4).

Ebenfalls neu im gleichen Verlag erschienen ist **funk 2000**, der komplette "funk"-Jahrgang auf CD-ROM, mit allen Artikeln, Bildern und Zeichnungen. Zusätzlich zu finden ist auf der CD das "funk"-Spezial "Amateurfunk-Antennen", das "funk"-Extra-Heft "PMR446" und folgende PC-Programme: ANDIA - ein Programm zur Erstellung eigener Antennendiagramme, LPDA - Bauanleitung für Duoband-Hochleistungsantennen, Umrechnungsprogramm der PWRMI-Pegelwerte in V/m und mA/m als Excel-Tabelle, sowie ein deutsch/französisches Elektronikwörterbuch. Die CD ist für DM 19,00 direkt vom Verlag oder im Buchhandel erhältlich (Bestell-Nr. 6201007, ISBN 3-88180-900-7).

Auch der neue **Funk-Fachliteratur-Katalog** ist im März neu erschienen, eine umfangreiche Zusammenstellung von Fachzeitschriften, Fachbüchern, Sonderheften und CD-ROMs des Verlags für Technik

und Handwerk. Der 32-seitige Katalog ist kostenlos vom Verlag erhältlich.

40 Jahre Grundig Ocean Boy, 1961 - 2001, von Thomas Baier ist im März neu erschienen. Auf 90 zweisprachigen Seiten werden alle Modelle vorgestellt. 65 schwarz/weiß Fotos und knapp 20 Tabellen runden das Ganze ab. Preis: DM 34,95 inklusive Porto & Verpackung in Deutschland. Weitere Informationen direkt von Thomas Baier <nemez@t-online.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

ALASKA: KNLS, Anchor Point, Alaska - new season schedule A01. Address: KNLS, P.O. Box 473, Anchor Point, Alaska 99556 U.S.A., fax: +615-371-8791 and email: <KNLS@aol.com> (for reception reports subject should be "reception report" without quotes). KNLS will provide only ONE QSL for each report, regardless the number of entries and does NOT provide QSL's for other transmitter operators who may air World Christian Broadcasting programs. To qualify, a report must include: The date and time (UTC only) of the transmission, the frequency and as many program details as you can supply. At the web you will find KNLS at the URL <www.knls.org>.

March 25, 2001 to October 27, 2001

UTC	kHz	Language
0800	11765	English
0900	11765	Russian
1000	11765	Mandarin
1100	9615	Russian
1200	11765	Mandarin
1300	11870	English
1400	11870	Mandarin
1500	11870	Mandarin
1600	11765	Mandarin
1700	12105	Russian (KNLS website last-modified 26 Feb 2001, via JKB)

AUSTRIA: A01 schedule, valid 25 March - 27 Oct 2001, of *Trans World Radio - TWR-Europe* from transmitters in Europe. TWR is a Christian evangelical broadcaster with headquarters in North Carolina, USA. The address of Trans World Radio Vienna Frequency Coordination Office is: POB 141, A-1235 Vienna, Austria. Fax: +43-1-863-12-20, E-mail: <eurofreq@twr-europe.at>.

MONTE CARLO, MONACO						
TIME/UTC	DAYS	LANGUAGE	FREQ	PWR	AZI	ZONES
0645-0820	67	English	9870	100	324	27
0655-0820	12345	English	9870	100	324	27
0830-0845	123456	German	7160	100	13	28
0830-0845	123456	German	9795	500	26	28
0830-0915	7	German	7160	100	13	28
0830-0915	7	German	9795	500	26	28
1230-1245	4 7	Slovenian	7255	100	85	28
1230-1245	123 56	Croatian	7255	100	85	28
1300-1330	7	German	7160	100	13	28
1300-1330	7	German	9795	500	26	28
1315-1330	6	German	7160	100	13	28
1315-1330	6	German	9795	500	26	28
1330-1400	1234567	German	7160	100	13	28
1330-1400	1234567	German	9795	500	26	28

CENTRAL ASIA						
TIME/UTC	DAYS	LANGUAGE	FREQ	PWR	AZI	ZONES
1230-1245	4 7	Slovenian	9490	100	130	28
1230-1245	123 56	Croatian	9490	100	130	28
1600-1645	6	Rumanian	7135	100	110	28
1600-1645	6	Rumanian	9855	100	115	28
1630-1645	5 7	Rumanian	7135	100	110	28
1630-1645	5 7	Rumanian	9855	100	115	28

JULICH, GERMANY						
TIME/UTC	DAYS	LANGUAGE	FREQ	PWR	AZI	ZONES
0645-0820	67	English	6045	100	0	27
0655-0820	12345	English	6045	100	0	27

CERRIK, ALBANIA						
TIME/UTC	DAYS	LANGUAGE	FREQ	PWR	AZI	ZONES
0030-0045	1234567	Kazak	6240	100	78	30/31
0045-0100	1234567	Korean	6240	100	78	30/31
1610-1625	1234567	Korean	5855	100	78	30/31
1610-1625	1234567	Korean	7395	100	65	30/31
1625-1640	1234567	English	5855	100	78	30/31
1640-1655	567	Turkmen	5855	100	78	30/31
1640-1655	1234	Kirgiz	5855	100	78	30/31
1655-1710	1234567	Uzbek	5855	100	78	30/31
1710-1740	7	Tajiki	5855	100	78	30/31

24 February 2001, via JKB)

COSTA RICA: Radio For Peace International - RFPI frequency schedule effective March 2001 - May 2001. RFPI is a short-wave radio station located on the campus of the University for Peace in Costa Rica, Central America. Postal address is P.O. Box 88, Santa Ana, Costa Rica.

0200-0800 7450 Output: 30 KW

2200-0400 15050 10 KW

1200-0000 21815(USB) 2 KW

(RFPI web page - last updated 5 Mar 2001, via JKB)

CZECH REPUBLIC: Broadcast schedule A01 of **Radio Prague**, valid 25 March 2001 - 27 October 2001. Address: Radio Prague, Vinohradska 12, 120 99 Prague. Fax: +420-2-24218239. E-mail: <cr@radio.cz> and at the web <<http://www.radio.cz>>.

CZECH					21745	100	S. Asia
0830-0857	11600	100	S.W. Europe	1600-1627	5930	200	N.W. Europe
	21745	100	E.Africa/ Mi. East		21745	100	E. Africa
0930-0957	21745	100	S. Asia/ W. Africa	1700-1727	5930	200	N.W. Europe
1100-1127	11615	100	N. Europe		21745	100	C. Africa
	21745	100	S. Asia	2000-2027	5930	100	N.W. Europe
1230-1257	6055	100	C. Europe		11600	100	S. & E. Asia/ Australia
	7345	100	W. Europe	2130-2157	11600	100	S. & E. Asia/ Australia
1330-1357	13580	100	N. Europe		15545	100	W. Africa
	21745	100	S. Asia	2230-2257	11600	100	N. America
1530-1557	5930	100	W. Europe		15545	100	
	21745	100	E. Africa	0000-0027	7345	100	N. America
1730-1757	5930	100	E.Europe/Asia/ Australia		11615	100	
	21745	100	C. Africa	0100-0127	5915	100	N. America
1930-1957	5930	100	W. Europe		7345	200	
	11600	100	S. & E. Asia/ Australia	0300-0327	7345	200	N. America
2100-2127	11600	100	S. & E. Asia/ Australia		7385**	50	
	15545	100	W. Africa		9870	100	
2330-2357	11615	100	N. America	0330-0357	11600	100	Mi. East/ S.W. Asia
	13580	100	S. America		15470	100	
0130-0157	5915	100	N. America	SPANISH			
	7345	200	S. America	0730-0757	9880	100	S.W. Europe
0230-0257	7345	200	N. America		11600	100	
	9870	100		1400-1427	11990	100	S.W. Europe
GERMAN					13580	100	
0630-0657	5930	200	W. Europe	1800-1827	5930	100	S.W. Europe
	7345	100	Europe		13580	100	
1000-1027	6055	200	C. Europe	1900-1927	5930	100	S.W. Europe
	9880	100	W. Europe		13580	100	
1200-1229	6055	200	C. Europe	2030-2057	5930	100	S.W. Europe
	7345	100	W. Europe		11600	100	
1500-1527	5930	200	W. Europe	2300-2327	11615	100	S. America
1630-1657	5990*	250	W. Europe		13580	100	
ENGLISH				0030-0057	7345	100	C. America
0700-0727	9880	100	N.W. Europe		11615	100	S. America
	11600	100		0200-0227	5915	100	C. America
0900-0929	21745	100	S. Asia/ W. Africa		7345	200	S. America
					7385**	50	N.W. of South America
1030-1057	9880	100	N. Europe	FRENCH			
	11615	100	N.W. Europe	0600-0627	5930	200	W. Europe
1300-1329	13580	100	N. Europe		7345	100	S.W. Europe
				0800-0827	9880	100	W. Europe

	11600	100	S.W. Europe				S.W. Asia
1630-1657	5930	100	W. Europe	1130-1157	6055	200	E. Europe
	21745	100	C. Africa		15675*	250	
1830-1857	5930	100	W. Europe		21745	100	E. Europe/ S.W. Asia
	13580	100	W.Africa/ S.W.Europe	1430-1457	9790*	250	E. Europe
2200-2227	11600	100	N. America		11990	100	
	15545	100			13580	100	E. Europe/ S.W. Asia
RUSSIAN				1530-1557	7235*	250	E. Europe
0400-0427	9865	100	E. Europe				
	11600	100	E. Europe/				

Transmitters at Litomysl 16E10 49N48

* Relayed via Rimavsk, Sobota, Slovakia 20E00 48N23

** Relayed via WRMI Miami, Florida 80W22 25N54 (R. Prague via WB,5 Mar 2001)

DENMARK: *Radio Denmark* A01 schedule 1st edition (February 22), March 25 - October 27, 2001, which also applies for *Radio Norway* as they broadcast xx.00-xx.30 UTC followed by Radio Denmark at xx.30-xx.55.

UTC	Target (primary target in brackets)	KHz	Tx	Beam			
0830-0855	Australia, Europe (south west), Canary Islands, South America Middle East (east)	15705	S	235			
0930-0955	Australia, Europe (south west), Canary Islands, South America Far East, New Zealand	15705	S	235	2030-2055	Europe, Canary Islands	7490 S 180
1030-1055	Europe, Mediterranean, Canary Islands South America, Canary Islands	17505	K	35	2130-2155	Australia (east)	9985 K 65
1130-1155	Europe, Mediterranean, Canary Islands North America (east), Caribbean	9590	S	180	2230-2255	Australia (east)	9510 K 65
1230-1255	Far East North America (east + central), Greenland North America (east), Caribbean	18950	S	280		Far East	11600 K 35
1330-1355	South East Asia, Australia (west), Russia Europe Far East	15705	K	40	2330-2355	South America	13800 S 235
1430-1455	North America (east + central), Greenland South East Asia, Australia (west), Russia	15735	S	300		South East Asia, Australia (west)	9935 K 80
1530-1555	North America (west), Greenland Russia, Europe (south east), Middle East (north), South Asia (India)	18950	S	280	0030-0055	North America (east), Caribbean	9945 S 280
1630-1655	Middle East (east), South Asia (India) North America (west), Greenland Europe	15735	K	80		Far East	13765 K 35
1730-1755	Europe Russia, Europe (south east), Middle East (north), South Asia (India)	15705	K	40		South America	13800 S 235
1830-1855	Europe (south east), Middle East (west), Africa (east) North America (east), Caribbean	17525	S	315	0130-0155	South East Asia, Australia (west)	9935 K 80
1930-1955	Europe Middle East (west) Europe (south east), Middle East (west), Africa (east)	15735	K	95		North America (east), Caribbean	9985 S 280
	North America (east), Caribbean Europe (south east), Middle East (west), Africa (east)	17525	S	280	0230-0255	North America (east + central), Greenland (northwest)	11635 S 300
	Europe Middle East (west) Europe (south east), Middle East (west), Africa (east)	11615	S	180		North America (east), Caribbean, South America (northwest)	9985 S 280
	North America (east + central), Greenland Europe (south east), Middle East (west), Africa (east)	15705	K	145	0330-0355	North America (east + central), Greenland South Asia (India)	11635 S 300
	Europe (south east), Middle East (west), Africa (east) North America (east), Caribbean	17525	S	280		South Asia (India)	12090 K 95
	Europe Middle East (west) Europe (south east), Middle East (west), Africa (east)	15735	K	95	0430-0455	South Asia (India)	13800 K 95
	North America (east + central), Greenland Europe (north), Scandinavia (south)	17525	S	315		Russia, Europe (south east), Middle East (east)	9960 K 95
	Europe New Zealand Africa (west, central and south), Europe (south)	9595	S	180		North America (west), Greenland Europe (south east), Middle East (west), Africa (east)	11635 S 315
	Europe, Canary Islands	7490	S	180	0530-0555	North America (west), Greenland Europe (south east), Middle East (west), Africa (east)	13800 K 145
		15705	K	180		Europe (east)	7465 S 180
		7490	S	180	0630-0655	Russia, Europe (south east), Middle East (east)	9475 K 110
						North America (west), Greenland Europe (south east), Middle East (west), Africa (east)	11635 S 315
						Europe (south), Africa Europe (south east), Middle East (west)	9590 K 165
						Europe, Canary Islands	11615 K 120
						Europe (south west), Canary Islands, Africa (north west), New Zealand	7180 K 165
						Europe (south), Africa, New Zealand Europe (south west), Canary Islands, Africa (north west), New Zealand	9590 S 195
						Europe, Canary Islands	11600 K 165
						Africa (west), Canary Islands, New Zealand	13800 S 220
						Europe, Canary Islands	9590 K 180
						Africa (west), Canary Islands, New Zealand	13800 S 220

Address: Radio Danmark, Radioavisen, Rosenornt Allé 22, DK-1999, Frederiksberg C, Denmark. Fax: +45 35 20 57 81. E-mail: schedule, programme matters: <rdk@dr.dk> - technical, reports: <rdktek@dr.dk> WWW: <<http://www.dr.dk/rdk>>

The daily live transmissions in Danish only are aired at 0830, 1230 and 1630 UTC. Transmissions in-between are repeats. The letterbox programme, ``Tune In`` is heard on the last Saturday and Sunday of the month from 1637 UT, the last broadcast being on Sunday at 1537. Radio Denmark shares the Norwegian transmitters with Radio Norway. They broadcast at xx.00-xx.30, followed by Denmark at xx.30-xx.55, 24 hours a day.

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. - Kalundborg, Denmark (Ka) = 300/250 kW.

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

(RD via Erik K oie - RD, Feb 24, via DXLD #1-026)

FINLAND: Scandinavian Weekend Radio - SWR is Scandinavia's first private short wave station. Studios and transmitters are located in Virrat, western Finland (N 62°23' E 23°37'). Transmitter power is 50 watts (Maximum ERP power is 250 W). Antenna what SWR uses is half-wave dipole in 20 meters from ground. SWR is on the air at every months first Saturday 24 hours, starting 0000 local time (+3 UTC daylight saving time, +2 normal). SWR broadcasts on 25-metre band on frequency 11690 or 11720 kHz. E-mail address is <info@swradio.net>, phone number +358 400 995 559 is on use during transmission weekends. Also SMS - messages are welcome. More information about SWR can be found at website: <<http://www.swradio.net>>. (SWR web page via JKB, 5 March 2001)

GERMANY: German Telecom - Relay stations transmissions, summer schedule A01 transmitter Juelich.

frq	start	stop	ciraf	ant	azi	type	day	from	to	broadcaster
5850	0600	2000	27	406	290	106	1234567	250301	281001	DTK
5900	1000	1500	28	406	60	106	23456	250301	281001	DTK
13720	0557	0659	18	308	20	216	1234567	010601	130901	RNW
9855	0000	0100	7,8,9	105	295	216	1234567	250301	281001	LRT
6015	1600	1615	27,28	401	ND	926	1234567	010501	281001	MWH
6015	1000	1400	27,28	402	ND	976	1	060501	281001	RSU
9495	2330	0030	41,49	208	80	218	1234567	250301	281001	DVB
15405	1456	1530	41,49	203	70	218	1234567	250301	281001	DVB
6045	0858	1000	27,28	401	ND	926	1	250301	281001	EVR
6015	1730	1759	27,28	401	ND	926	4	250301	281001	EVR
15715	1700	1759	38,39,48	103	125	217	156	250301	281001	SBO
5985	0900	0959	27,28	104	115	206	1	250301	281001	CHW
21590	1230	1329	41	108	90	218	1234567	250301	281001	TBC
9405	2230	2330	37,38	405	175	141	1234567	250301	281001	IBR
15715	1630	1659	38,47,48	103	125	217	36	250301	281001	DTK
13855	1830	1859	52,53	211	155	216	5	250301	281001	RRP
15670	1600	1659	38,47,48	103	125	217	15	250301	281001	DTK
21550	0700	0759	38,47,48	106	145	217	1	250301	281001	DTK
15715	1830	1929	38,47,48	106	145	217	4	250301	281001	DTK
5925	1400	1459	27,28	401	ND	926	7	250301	281001	DTK
15670	1700	1759	38,39,48	103	125	217	25	250301	281001	DTK
5995	0900	0959	27,28	402	ND	976	1	250301	281001	DTK
15670	1600	1659	38,47,48	209	140	216	6	250301	281001	DTK
15715	1600	1629	47,48,52,53	302	160	216	1	250301	281001	UNL
9435	0100	0129	41	110	90	217	1	250301	281001	UNL
6015	1630	1659	27,28	401	ND	926	345	250301	281001	UNL
13855	1800	1829	46,47,48	211	155	216	1	250301	281001	UNL
9430	0600	0759	60	112	240	216	1234567	250301	281001	TOM
13800	0800	0959	60	202	50	218	1234567	250301	281001	TOM
13810	0600	0959	55,56,58,59	206	250	218	1234567	250301	281001	TOM
13810	1300	1555	38,39	103	115	217	1234567	250301	281001	TOM
13810	1555	1659	38,39	208	100	218	1234567	250301	281001	TOM
6110	1230	1724	27,28	406	290	106	1234567	250301	281001	TOM
17490	1400	1759	8,9,10	101	295	217	7	250301	281001	TOM
17490	1400	1659	8,9,10	101	295	217	1	250301	281001	TOM
9490	0257	0459	47,48,52,53	306	160	216	23456	250301	281001	RTB
9490	0427	0459	47,48,52,53	306	160	216	17	250301	281001	RTB
17580	0500	0712	47,48,52,53	303	160	216	23456	250301	281001	RTB
17580	0500	0959	47,48,52,53	303	160	216	7	250301	281001	RTB
17580	0500	0806	47,48,52,53	303	160	216	1	250301	281001	RTB
21565	0957	1206	47,48,52,53	301	160	216	23456	250301	281001	RTB
21565	1000	1117	47,48,52,53	301	160	216	7	250301	281001	RTB
21565	1057	1117	47,48,52,53	301	160	216	1	250301	281001	RTB
17570	1457	1716	47,48,52,53	303	160	216	123456	250301	281001	RTB
17570	1557	1716	47,48,52,53	303	160	216	7	250301	281001	RTB
21590	0700	1200	38,39	101	115	217	1234567	250301	281001	VOH
15715	1200	1559	38,39	102	115	217	1234567	250301	281001	VOH

17550	1325	1529	40,41	109	90	217	1234567	250301	281001	VOH
5975	0700	0900	27,28	406	290	106	1234567	250301	281001	VOH
9495	1700	2100	29,30	202	70	218	1234567	250301	281001	VOH
13820	1300	1559	43,44	202	50	218	1234567	010401	281001	VOH
9595	0100	0330	8,9	119	295	216	1234567	250301	281001	VOH later
13810	1755	2100	46E,47,48	406	180	106	1234567	250301	281001	VOH later
11725	2100	0100	12,13,14	112	240	216	1234567	250301	281001	VOH later
11960	2100	0100	10,11	110	270	217	1234567	250301	281001	VOH later
15420	1400	1500	44S	206	50	218	1234567	250301	281001	VOH later
11775	0400	0559	38,48,53	211	140	216	1234567	250301	281001	UMC
13810	0400	0559	46,47,52,53	301	160	216	1234567	250301	281001	UMC
13820	1700	1859	38,48,53	106	145	217	1234567	250301	281001	UMC
15485	1700	1859	46,47,52,53	301	160	216	1234567	250301	281001	UMC
13855	1600	1800	47,48	105	145	216	1234567	250301	281001	YFR
15775	1800	2100	47,48,52,53	306	160	216	1234567	250301	281001	YFR
13855	1900	2200	46	308	200	216	1234567	250301	281001	YFR
9925	2300	0059	11-16	202	230	218	1234567	010401	281001	HRT
9925	0100	0259	6-10	112	300	216	1234567	010401	281001	HRT
9925	0300	0459	2-10	105	325	216	1234567	010401	281001	HRT
9470	0500	0659	55,59,60	202	230	218	1234567	010401	281001	HRT
13820	0700	0859	58,59,60	208	270	218	1234567	010401	281001	HRT
6140	0600	1555	27,28	105	115	216	1234567	250301	281001	DWL
6140	1555	1900	27,28	105	130	216	1234567	250301	281001	DWL
6045	1027	1225	18S,27,28NW	401	ND	926	1234567	250301	281001	DWL (RNW2)
5985	0657	0727	27,28	119	265	216	1234567	250301	281001	DWL (VRT)
13710	1727	1856	27,28,37-39	111	120	216	1234567	250301	281001	DWL (VRT)
15515	1757	1856	37,38,47,48,52,53	303	160	216	1234567	250301	281001	VRT
5840	0300	0400	28,29,38,39	111	120	216	1234567	250301	281001	AWR
11880	0900	1000	28,38	211	140	216	17	250301	281001	AWR
15620	0700	0930	37,38,46	308	200	216	1234567	250301	281001	AWR
9875	1600	1759	28,29,38,39	104	115	206	1234567	250301	281001	AWR
9745	2100	2330	37,38,46	406	200	106	1234567	250301	281001	AWR
9610	0355	0630	28SE,29	104	115	206	1234567	250301	281001	SRI
17685	0555	0800	37S,38W,46	307	200	216	1234567	250301	281001	SRI
15545	0555	0800	37S,38	306	160	216	1234567	250301	281001	SRI
15315	0955	1230	37N	308	210	216	1234567	250301	281001	SRI
15220	1625	1815	28,38E,39	102	115	217	1234567	250301	281001	SRI
17640	1625	1815	38,39	107	115	217	1234567	250301	281001	SRI
6110	1725	1930	27,28	406	290	106	1234567	250301	281001	SRI
17580	1825	2130	37S,38W,46	307	200	216	1234567	250301	281001	SRI
15220	1825	2130	47,52,53,57	302	160	216	1234567	250301	281001	SRI
13770	1825	2130	38,48,53	106	145	217	1234567	250301	281001	SRI SOT
9885	0025	0545	8,10,11,12N	102	295	217	1234567	250301	281001	SRI SOT
21750	0555	0800	47,52,53,57	301	160	216	1234567	250301	281001	SRI SOT
21770	0825	1030	47,52,53,57	301	160	216	1234567	250301	281001	SRI SOT
21770	1055	1330	29,30,40,41,49,50,54	207	80	218	1234567	250301	281001	SRI SOT
17680	1355	1600	29,30,40,41	207	80	218	1234567	250301	281001	SRI SOT
21720	1625	1815	38,39,48	106	145	217	1234567	250301	281001	SRI SOT
9885	2155	2400	13-16	112	240	218	1234567	250301	281001	SRI SOT
6045	0645	0820	27,28	401	ND	926	17	250301	281001	TWR
6045	0655	0820	27,28	401	ND	926	23456	250301	281001	TWR
9490	1227	1245	28	104	130	216	1234567	250301	281001	TWR
7135	1557	1645	28	211	110	216	7	250301	281001	TWR
7135	1627	1645	28	211	110	216	16	250301	281001	TWR
9855	1557	1645	28	111	120	216	7	250301	281001	TWR
9855	1627	1645	28	111	120	216	16	250301	281001	TWR

Broadcasters:

AWR Adventist World Radio
 CHW Christliche Wissenschaft
 DTK Deutsche Telekom
 DVB Democratic Voice of Burma
 DWL Deutsche Welle
 EVR Evangeliums Radio Hamburg
 IBR IBRA Radio

LRT Radio Vilnius Lithuania
 MWH Missionswerk Werner Heukelbach
 RSU Radio Sunshine, Belgium
 RNW Radio Netherlands World Service
 RRP Radio Reveil Paroles de Vie
 RTB Radio Television Belge de la communaute Francaise
 SBO Sagalee Bilisummaa Oromoo
 SRI Swiss Radio International
 TBC Tamil Broadcasting Corporation
 TOM The Overcomer Broadcast
 TWR Trans World Radio
 UMC The United Methodist Church
 UNL Universelles Leben
 VOH High Adventure Ministries - The Voice of Hope (ex HAM)
 VRT Vlaamse Radio en Televisie (ex RVI)
 YFR WYFR Family Radio (Ralf Weyl - German Telecom, 12 Mar 2001)

Radio Santec - The Cosmic Wave - The Word - The Universal Spirit, Summer frequencies from 01.04.2001:

	UTC	kHz
<i>German Programmes:</i>		
Daily	04.45	MW 1323
Daily	15.53	MW 1215, 1323, 1386 + SW 9795, 15455
Tuesday	16.30	SW 6015*
	17.30	MW 1215, 1323, 1386 + SW 9795, 15455
Wednesday	16.30	SW 6015*
	18.30	MW 1215, 1323, 1386 + SW 9795, 15455, 11980
Thursday	16.30	SW 6015*
Saturday	09.30	SW 7120§
	17.30	MW 1215, 1323, 1386 + SW 9795, 15455
Sunday	09.30	SW 7120§
	12.00	SW 9710
	17.00	MW 1215, 1323, 1386 + SW 9795, 15455

English Programmes:

Sunday 01.00 SW 9435* to India
 18.00 SW 13855* to Africa
 Tuesday 21.00 MW 1323, 1386 to Europe

French Programmes:

Friday 19.30 MW 1323 + SW 7310, 7420, 9450, 9810, 9865, 11930, 12000,
 12015, 15455, 15535 to Europe & Africa
 Sunday 16.00 SW 15715* to Central Africa

Spanish Programmes:

Monday 02.30 SW 7330, 9450, 9470, 9810, 9965, 12010, 12060 to South America

Italian Programmes:

Wednesday 21.00 MW 1323, 1386 to Europe

*) Relay via Juelich - §) relay via IRRS Milano, other shortwave frequencies are relayed via Russia.

Programme duration: most transmissions = 30 minutes (except 04.45 & 15.53 UTC).

Radio Santec - Marienstraße 1 - D 97070 Würzburg - Germany,

Tel. +49-931-3903264 - Fax 3903195

Internet: www.radio-santec.com - Email: info@radio-santec.com

(Stefano Delù, Radio Santec - March 15, with remarks by Kai Ludwig, Michael Bethge & Michael Frese, Germany)

KOREA (NORTH): *Voice of Korea* is the new name of the international radio service of North Korea, formerly *Radio Pyongyang*. The two Korean-language services which North Korea transmits internationally on shortwave still use their former names: Korean Central Broadcasting Station and Radio Pyongyang. The name "Voice of Korea" appears to be reserved for broadcasts in non-Korean languages: English, French, Spanish, Russian, Arabic, Chinese, and Japanese. (Toru Yamashita via Comm. World 3 March 2001, via JKB)

New station ID's of "Voice of Korea" in each language at the beginning are as follows;

English: "This is Voice of Korea" French: "La Voix de la Coree"
 Spanish: "Aqui la Voz de Corea" German: "Stimme Koreas"
 Russian: "Golos Korei" Arabic: "Sawt Kuriya"
 Chinese: "Chaoxian zhi Sheng Guangbo Diantai"
 Japanese: "Choson no koe hoso desu"
 Korean(not changed): "Joson Jung-ang Pangsong-imnida" or "Pyongyang Pangsong-imnida"
 (Nobuo Hina of the Asian Broadcasting Institute via Toru Yamashita via WWDXC-HQ; February 27, 2001)

LITHUANIA: Lithuania will reduce its shortwave broadcasts to the rest of the world. Mark Fine heard **Radio Vilnius** announce on February 28th that its shortwave transmission in English via Juelich, Germany, 0030 to 0100 on 6120 kilohertz, will be dropped as of March 5th. This is for budget reasons. (Mark Fine via Comm. World 3 March 2001, via JKB)

MISCELLANEOUS: Beginning with the new transmission period at the end of March, **Adventist World Radio** plans to begin the relay of its programming over a new shortwave station in Europe. Relays via the Slovak Telekom station at Rimavska Sabota will conclude at the end of next month and relays will begin via the Austrian shortwave station located at Moosbrunn near Vienna. Usage of the relay facilities in Austria will give AWR added flexibility in covering the desired target areas, due to the fact that one of the main antennas at Moosbrunn is rotatable. The transmitter for these new AWR broadcasts is a 500 kW unit operating with 300 kW output. The new transmission period begins on Sunday March 25 and AWR is taking out a daily 12 hour relay from Moosbrunn for coverage into Africa, the Middle East, and Pakistan. The antenna beam will change throughout the broadcast day and the same transmitter at 300 kW will change frequency according to propagation conditions. An additional AWR service from Austria will commence on the same day, Sunday March 25. The other 500/300 kW transmitter at Moosbrunn with an omni-directional antenna will carry AWR programming to Europe morning and evening in English and German. The AWR DX program, "Wavescan" will feature in this new programming for Europe in the English broadcasts on Sundays. The German language program, "Die Stimme der Hoffnung" ("Voice of Hope") will also be heard in this new European service. The final AWR broadcasts from the relay station at Rimavska Sobota in Slovakia will be on the air on Saturday March 24. AWR programming from this station has been on the air since January 1, 1994, a period of more than 7 years. During this time, AWR programming has been carried by three of the four transmitters at 250 kW, and over a period of time, these broadcasts have been heard almost worldwide. AWR usage of the leased facilities at Juelich in Germany and Meyerton in South Africa will continue to relay regular AWR programming. The two AWR owned stations, KSDA on Guam and the unit at Forli in Italy will also continue to carry a normal programming load. Adventist World Radio invites reception reports from listeners for the new transmission period, and specially for the new broadcasts from the Moosbrunn shortwave station. Specially endorsed QSL cards will be available for the "Last Week" from Rimavska Sobota in Slovakia, and for the "First Week" from Moosbrunn in Austria. (Dr. Adrian M. Peterson, DX Editor, Co-ordinator - International Relations, AWR-Press Release. Via BP via WWDXC-HQ, March 2001)

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

120 meter band

2310.0 Northern Territory Shortwave Service, Alice Springs, Australia
 2325.0 Northern Territory Shortwave Service, Tennant Creek, Australia
 2340.0 Fujian People's Broadcasting Station, Fuzhou, China
 2350.0 Korean Central Broadcasting Station, Sariwon, North-Korea
 2360.0 Radio Maya, Guatemala
 2380.0 Radio Educadora, Limeira, Brazil

2390.0 Radio La Voz de Atitlán, Guatemala (v)
 2390.0 Radio Huayacocotla, Mexico
 2390.0 WWCR, United States of America
 2410.0 Radio Enga, Papua New Guinea (off air?)
 2415.0 Zhejiang People's Broadcasting Station, Wenzhou, China
 2445.0 Jiangxi People's Broadcasting Station, China
 2460.0 Radio Alvorada, Rio Branco, Brazil

- 2485.0 Northern Territory Shortwave Service, Katherine, Australia
 2490.0 RRI Udung Padang, Indonesia (v)
 2490.2 Radio Oito de Setembro, Descavalo, Brazil (v)
90 meter band
 3200.0 Trans World Radio, Swaziland
 3205.0 Radio Ribeirão Preto, Brazil
 3205.0 Radio Vale do Rio Madeira, Humaita, Brazil
 3205.0 Radio West Sepik, Radio Sandaun, Papua New Guinea (off air?)
 3210.0 Radio Exterior Espana, Costa Rica
 3210.0 Radio Mozambique, Maputo, Mozambique
 3210.0 WWCR, United States of America
 3215.0 RRI Manado, Indonesia (v)
 3220.0 La Voz de los Andes, Ecuador
 3220.0 Korean Central Broadcasting Station, Hamhung, North-Korea
 3220.0 Radio Morobe, Papua New Guinea
 3222.0 Radio Kara, Togo (v)
 3223.0 All India Radio, Shimla, India
 3224.8 RRI Tanjung Pinang, Indonesia (v)
 3225.0 Radio Oranje, South-Africa
 3230.0 Radio Nepal, Nepal (v)
 3230.2 Radio El Sol de Los Andes, Juliaca, Peru (v)
 3234.8 Radio Luz y Sonido, Huánoco, Peru (v)
 3235.0 Radio West New Britain, Papua New Guinea
 3240.0 Trans World Radio, Swaziland
 3245.0 Radio Clube, Varginha, Brazil
 3245.0 All India Radio, Lucknow, India
 3245.0 Radio Gulf, Papua New Guinea (off air?)
 3249.8 Radio La Voz de Triunfo, Ecuador (v)
 3249.8 Radio Luz y Vida, San Luis, Honduras (v)
 3250.0 Pyongyang Broadcasting Station, North-Korea
 3250.6 Radio Qollasuyo, Huanuco, Peru (v)
 3255.0 Radio Educadora 6 de Agosto, Xapuri, Brazil
 3255.0 BBC, Meyerton, South Africa
 3260.0 La Voix du Sahel, Niger
 3260.0 Radio Madang, Papua New Guinea
 3262.7 NHK Fukuoka 1, Japan
 3265.0 RRI Gorontalo, Indonesia (v)
 3268.8 RRI Bengkulu, Indonesia (v)
 3270.0 Namibian Broadcasting Corporation, Namibia
 3277.0 Radio Mozambique, Beira, Mozambique
 3275.0 Radio Southern Highlands, Papua New Guinea
 3280.0 Voice of Pujiang, Shanghai, China
 3280.0 La Voz del Napo, Tena, Ecuador (v)
 3280.0 Radio Mocambique, Beira, Mocambique (v)
 3283.2 Radio Estacion Wuari, Ayacucho, Peru (v)
 3285.0 Radio La Voz del Río Tarqui, Cuenca, Ecuador (v)
 3288.0 Radio Madagascar, Madagascar (v)
 3289.8 Radio Centro, Ambato, Ecuador (v)
 3290.0 Namibian Broadcasting Corporation, Namibia
 3290.0 Voice of Guyana, Georgetown, Guyana
 3290.0 Radio Central, Papua New Guinea
 3295.0 RRI Samarinda, Indonesia (v)
 3300.0 Radio Cultural, Guatemala, Guatemala
 3305.0 All India Radio, Ranchi, India
 3305.0 Radio Western, Papua New Guinea - off air?
 3306.0 Zimbabwe Broadcasting Corporation, Zimbabwe
 3310.0 Radio Mosoj Chaski, Cochabamba, Bolivia
 3315.0 All India Radio, Bhopal, India
 3315.0 Radio Manus, Papua New Guinea
 3316.0 Sierra Leone Broadcasting Service, Sierra Leone
 3320.0 Pyongyang Broadcasting Station, North-Korea
 3320.0 Radio Sonder Grense, South-Africa
 3320.0 Radio 2000, South-Africa
 3324.8 Radio Maya, Barillas, Guatemala (v)
 3325.0 Super Radio Tupi, Sao Paulo, Brazil
 3325.0 RRI Palangkaraya, Indonesia
 3325.0 Radio North Salomons, Radio Bougainville, Papua New Guinea
 3326.0 Federal Radio Corporation of Nigeria, Lagos, Nigeria
 3329.5 Radio Ondas del Huallaga, Huanuco, Peru (v)
 3330.0 Christian Voice, Zambia
 3331.0 Radio Comores, Comores
 3335.0 Radio East Sepik, Papua New Guinea
 3335.0 Broadcasting Corporation of China, Taipei, Taiwan
 3338.0 Radio Mozambique, Mozambique
 3339.9 Radio Altura, Cerro de Pasco, Peru (v)
 3345.0 All India Radio, Jaipur, India
 3345.0 RRI Ternate, Indonesia (v)
 3345.0 Radio Northern, Papua New Guinea (off air?)
 3345.0 DZB-2, Mindoro, Philippines
 3345.0 Channel Africa, Meyerton, South-Africa
 3350.0 Korean Central Broadcasting Station, Pyongsong, North-Korea
 3355.0 Radio Nacional de Angola, Angola
 3355.0 All India Radio, Kurseong, India
 3355.0 RRI Jambi, Indonesia
 3355.0 RRI Sumenep, Indonesia
 3355.0 Radio Simbu, Papua New Guinea
 3356.0 Radio Botswana, Botswana
 3360.0 La Voz del Upano, Macas, Ecuador
 3360.0 La Voz de Nahualá, Guatemala (v)
 3365.0 Radio Cultura, Araraquara, Brazil
 3365.0 All India Radio, Delhi, India
 3365.0 Radio Milne Bay, Papua New Guinea
 3366.0 Ghana Broadcasting Corporation, Ghana
 3370.0 Radio Sistema Cultural Tezulutlán, Guatemala (v)
 3375.0 Radio Nacional de Angola, Angola (v)
 3375.0 Radio Clube, Dourados, Brazil (v)
 3375.0 Radio Educadora, Guaraja Mirim, Brazil
 3375.0 Radio Educadora, Macapa, Brazil
 3375.0 China National Radio, China
 3375.0 RRI Medan, Indonesia
 3375.0 Radio Western Highlands, Papua New Guinea (off air?)
 3375.2 Radio San Antonio, Atalaya, Peru (v)
 3377.2 NHK Osaka, Japan
 3380.0 Radio Chortis, Guatemala
 3380.8 Malawi Broadcasting Corporation, Malawi
 3384.9 Radio East New Britain, Papua New Guinea
 3385.0 Radio Educacao Rural, Tefé, Brazil
 3385.0 RRI Kupang, Indonesia (v)
 3385.0 RTM Miri, Sarawak, Malaysia
 3390.0 La Voix du Peuple, Bunia, Congo Dem Rep.
 3390.0 All India Radio, Gangtok, India
 3390.0 BBC Meyerton, South-Africa
 3391.0 Radio Emisora Camargo, Bolivia
 3395.0 Radio Zaracay, Santo Domingo, Ecuador (v)
 3395.0 RRI Tanjung Karang, Indonesia
 3395.0 Radio Eastern Highlands, Papua New Guinea
 3396.0 Zimbabwe Broadcasting Corporation, Zimbabwe
 3396.4 Radio Internacional del Peru, San Pablo, Peru (v)
 3492.0 Radio Padilla, Padilla, Bolivia (v)
75 meter band
 3900.0 Nei Menggu People's Broadcasting Station, China
 3900.0 Radio Freedom of Communist Party in Iraqi Kurdistan, Unknown (v)
 3900.0 Voice of the People of Iraq, Unknown (v)
 3900.0 Voice of the Strait, Fuzhou, China
 3904.9 Radio New Ireland, Papua New Guinea (v)
 3904.9 RRI Merauke, Indonesia (v)
 3905.0 RRI Banda Aceh, Indonesia (v)
 3915.0 BBC World Service, Singapore
 3920.0 Korean Central Broadcasting Station, Hyesan, North-Korea
 3925.0 Nihon Shortwave Broadcasting Company (Radio Tampa), Japan
 3930.0 Korean Broadcasting System, Chogjin, Korea
 3935.0 ZLXA, Levin, New Zealand
 3945.0 Nihon Shortwave Broadcasting Company (Radio Tampa), Japan
 3945.0 Radio Vanuatu, Vanuatu
 3946.0 RRI Tanjung Karang, Indonesia
 3950.0 Qinghai People's Broadcasting Station, China
 3960.0 RRI Padang, Indonesia (v)
 3960.0 Korean Central Broadcasting Station, Kanggay, North-Korea

- 3960.0 Mongol Radio and Television, Mongolia (v)
 3962.0 RRI Palu, Indonesia (v)
 3970.0 CRTV Radio Buea, Buea, Cameroon (v)
 3970.0 NHK Sapporo, Japan
 3970.0 Korean Central Broadcasting Station, Wonsan, North-Korea (v)
 3970.0 Federal Radio Corporation of Nigeria, Enugu, Nigeria
 3973.8 NHK Nagoya, Japan
 3976.0 RRI Surabaya, Indonesia (v)
 3985.0 Voice of Iranian Kurdistan, Unknown (v)
 3999.9 RRI Kendari, Indonesia (v)
 4000.0 Nei Menggu People's Broadcasting Station, China
 4000.0 Voice of Broad Masses of Eritrea, Asmara, Eritrea
 4000.0 RRI Padang, Indonesia (v)
 4000.0 RRI Kendari, Indonesia (v)
60 meter band
 4750.0 Nei Menggu People's Broadcasting Station, China
 4750.0 Mongol Radio and Television, Mongolia (v)
 4750.1 Radio San Francisco Solano, Peru (v)
 4753.3 RRI Ujung Pandang, Indonesia (v)
 4753.8 Radio Difusora do Maranhao, Sao Luiz, Brazil (v)
 4755.0 Radio Educacao Rural, Campo Grande, Brazil
 4760.0 All India Radio, Leh, India
 4760.0 All India Radio, Port Blair, Andaman & Nicobar Islands
 4760.0 ELWA, Liberia
 4760.0 Trans World Radio, Swaziland
 4763.6 Radio Chincheros, Chincheros, Peru (v)
 4765.0 Radiodifusora Guanay, Bolivia (v)
 4765.0 Radio Rural, Santarem, Brazil
 4765.0 Radio Integracao, Cruzeiro do Sul, Brazil
 4766.6 Radio Constelacion, Guanay, Bolivia (v)
 4776.1 RRI Medan, Indonesia (v)
 4770.0 Federal Radio Corporation of Nigeria, Kaduna, Nigeria
 4770.1 Radio Centinela del Sur (CDS), Loja, Ecuador (v)
 4774.9 Radio Tarma, Peru (v)
 4775.0 Radio Amarela, Rolim do Moura, Brazil
 4775.0 Radio Congonhas, Congonhas, Brazil
 4775.0 Radio Portal do Amazonia, Cuaiba, Brazil
 4775.0 Radio Liberal, Belém, Brazil (v)
 4775.0 All India Radio, Imphal, India
 4775.0 Trans World Radio, Swaziland
 4777.0 Radiodiffusion Gabonaise, Libreville, Gabon (v)
 4777.1 RRI Jakarta, Indonesia (v)
 4779.8 Radio Coátan, Guatemala
 4780.0 Emissora Provincial Kuando-Kubango, Angola
 4780.0 Emisora Onda Musical, Dominican Republic (v)
 4780.0 Radio Pakistan, Pakistan (v)
 4780.0 Radio Satellite, Santa Cruz, Peru (v)
 4783.2 RTV Malienne, Mali (v)
 4785.0 Radio Brasil 5000, Campinas, Brazil
 4785.0 Radio Caiari, Porto Velho, Brazil
 4785.0 Nei Menggu People's Broadcasting Station, China
 4785.6 Radio Super, Ibagué, Colombia (v)
 4785.8 Radio Federacion, Ecuador
 4788.0 Radio Ballivian, San Borja, Bolivia (v)
 4789.0 RRI Fak-Fak, Indonesia (v)
 4790.0 All India Radio, Chennai, India
 4790.0 Azad Kashmir Radio, Pakistan
 4790.0 Radio Atlántida, Iquitos, Peru (v)
 4795.0 Radio Mallku, Uyuni, Bolivia (v)
 4795.0 Radio Difusora, Aquidauana, Brazil
 4795.0 Radio Rossii, Ulan-Ude, Russia
 4795.2 Radio La Voz de los Caras, Ecuador (v)
 4799.8 Radio Buenas Nuevas, Guatemala (v)
 4800.0 Kazakh Radio, Alma-Ata, Kazakhstan
 4800.0 Lesotho National Broadcasting Service, Lesotho
 4800.0 XETRA, Radio Transcontinental de America, Mexico
 4800.0 Provincial Station Radio TV Kontum, Vietnam
 4800.7 Radio Armonia, Argentina
 4801.0 Radio Oriental, Tena, Ecuador (v)
 4802.0 Radio Mamore, Bolivia (v)
 4805.0 Radio Difusora do Amazonas, Manaus, Brazil
 4805.0 Radio Itatiaia, Belo Horizonte, Brazil
 4810.0 Voice of Armenia, Yerevan, Armenia
 4814.3 Radio El Buen Pastor, Saraguro, Ecuador (v)
 4814.9 Radio Difusora, Londrina, Brazil
 4815.0 Radio Burkina, Ouagadougou, Burkina Faso
 4815.0 Radio Pakistan, Pakistan (v)
 4817.5 Radio Mauritanie, Mauritania (v)
 4819.1 La Voz Evangélica, Tegucigalpa, Honduras (v)
 4820.0 Emissora Provincial da Huila, Angola
 4820.0 Radio Botswana, Botswana
 4820.0 Xizang People's Broadcasting Station, China
 4820.0 Radio Rossii, Khanty-Mansiysk, Russia
 4820.0 Radio Ukraine International, Ukraine
 4820.0 All India Radio, Kolkatha, India
 4824.3 La Voz de la Selva, Iquitos, Peru (v)
 4824.9 Radio Cancao Nova, Cachoeira Paulista, Brazil
 4824.9 Radio Mam, Guatemala (v)
 4825.0 Radio Ecucadora, Braganca, Brazil
 4825.0 Radio Rossii, Yakutsk, Russia
 4826.1 Radio Sicuani, Sicuani, Peru (v)
 4828.0 Zimbabwe Broadcasting Corporation, Zimbabwe
 4830.0 Radio Botswana, Botswana
 4830.0 Hua-yi Broadcasting Corporation, Fuzhou, China
 4830.0 Radio Litoral, Le Ceiba, Honduras
 4830.0 Mongol Radio and Television, Mongolia (v)
 4830.0 Radio Thailand, Thailand
 4830.0 Radio Táchira, San Cristobal, Venezuela
 4831.0 Radio Lircay, Peru (v)
 4831.5 Radio Reloj, Costa Rica (v)
 4835.0 Northern Territory Shortwave Service, Alice Springs, Australia
 4835.0 RTV Malienne, Mali (v)
 4835.3 Radio Sistema Cultural Tezulutlan, Guatemala (v)
 4836.0 Radio Buenaventura, Buenaventura, Colombia (v)
 4840.0 Heilongjiang People's Broadcasting Station, China
 4840.0 Radio Interoceanica, Santa Rosa de Quijos, Ecuador (v)
 4840.0 All India Radio, Mumbai, India
 4840.0 Radio Andahuaylas, Peru (v)
 4840.1 Radio Valera, Venezuela
 4844.6 Radio K'ekchi, Guatemala (v)
 4845.0 Radio Fides, La Paz, Bolivia (v)
 4845.0 Radio Meteorologia Paulista, Ibitinga, Brazil
 4845.0 RRI Ambon, Indonesia
 4845.0 RTM Kajang, Malaysia
 4845.2 Radio Cultura Ondas Tropicais, Manaus, Brazil
 4850.0 CRTV Radio Yaonde, Cameroon
 4850.0 China National Radio, China
 4850.0 All India Radio, Kohima, India
 4850.0 Uzbek Radio, Uzbekistan
 4855.0 Radio Centenario, Santa Cruz, Bolivia (v)
 4855.0 Radio Tropical, Barra do Garças, Brazil
 4855.0 Radio Mozambique, Mozambique (v)
 4855.4 Radio La Hora, Cusco, Peru (v)
 4860.0 All India Radio, Delhi, India
 4860.0 Radio Rossii, Chita, Russia
 4865.0 Radio Alvorada, Londrina, Brazil
 4865.0 Radio Missoes da Amazonia, Obidos, Brazil
 4865.0 Radio Verdes Florestas, Cruzeiro do Sul, Brazil (v)
 4865.0 Mongol Radio and Television, Mongolia (v)
 4865.0 Gansu People's Broadcasting Station, Lanzhou, China
 4865.0 La Voz de Cinaruco, Arauca, Colombia (v)
 4870.0 ORTB Cotonou, Benin (v)
 4870.0 Radio La Voz de Upano, Macas, Ecuador
 4870.0 Radio Majestad, Huancayo, Peru (v)
 4870.0 SLBC, Sri Lanka
 4875.0 Radio Difusora de Roraima, Boa Vista, Brazil
 4875.0 Georgian Radio, Dusheti, Georgia
 4875.0 RRI Sorong, Indonesia (v)

- 4875.2 Radio La Cruz del Sur, La Paz, Bolivia (v)
4879.8 Radio Nacional Espejo, Quito, Ecuador (v)
4880.0 Radio Bangladesh, Bangladesh (v)
4880.0 All India Radio, Lucknow, India
4880.0 Provincial Station Than Hoa, Vietnam
4881.0 Radio Comas, Comas, Peru (v)
4883.0 China Radio International, China
4885.0 Radio Voz do Coracao Imaculado, Anápolis, Brazil
4885.0 Radio Clube do Pará, Belém, Brazil
4885.0 Radio Difusora Acreana, Rio Branco, Brazil
4885.0 Radio Ondas del Meta, Villavivencio, Colombia
4885.0 Kenya Broadcasting Corporation, Kenya
4886.0 Radio Virgen del Carmen, Peru (v)
4888.8 Radio Huanta, Huanta, Peru (v)
4890.0 Radio France Internationale, Moyabi, Gabon
4890.0 National Broadcasting Commission, Port Moresby, Papua New Guinea
4890.4 Radio Chota, Chota, Peru (v)
4895.0 Radio Baré, Manaus, Brazil
4895.0 Radio IPB AM, Campo Grande, Brazil
4895.0 La Voz del Río Arauca, Colombia
4895.0 Colombia Estereo, Santa Fe, Colombia
4895.0 All India Radio, Kurseong, India
4895.0 RTM Kuching, Sarawak, Malaysia
4895.0 Mongol Radio and Television, Mongolia (v)
4895.0 Radio Chanchamayo, La Merced, Peru (v)
4895.0 Radio Rossii, Tyumen, Siberia, Russia
4895.0 Radio Pakistan, Pakistan (v)
4988.0 Radio Nacional Espejo, Quito, Ecuador (v)
4900.0 Voice of the Strait, China
4900.0 Radio Conarky, Conarky, Guinea Republic
4902.0 SLBC, Sri Lanka (v)
4904.9 Radio La Oroya, La Oroya, Peru (v)
4905.0 Radio Anhanguera, Araguaina, Brazil
4905.0 Radio Relógio Federal, Rio de Janeiro, Brazil
4905.3 Radio Ecos del Orinoco, Puerto Carreno, Colombia (v)
4907.0 National Radio of Cambodia, Phnom Penh, Cambodia
4910.0 Northern Territory Shortwave Service, Tennant Creek, Australia
4910.0 All India Radio, Jaipur, India
4910.0 Zambia National Broadcasting Corporation, Zambia
4910.6 La Voz de la Mosquitia, Puerto Lempira, Honduras (v)
4910.7 RRI Bukittinggi, Indonesia (v)
4914.5 Radio Cora del Peru, Lima, Peru (v)
4915.0 Radio CBN Anhanguera, Goiania, Brazil
4915.0 Radio Difusora, Macapa, Brazil
4915.0 Radio Armonias del Caquetá, Florencia, Colombia
4915.0 Ghana Broadcasting Corporation, Ghana
4915.0 Kenya Broadcasting Corporation, Kenya
4915.0 Radio Pakistan, Pakistan
4919.0 Radio Quito, Ecuador (v)
4920.0 All India Radio, Chennai, India
4920.0 RRI Tanjung Pinang, Indonesia
4920.0 Radio Mocambique, Mocambique (v)
4920.0 Voice of Russia, Russia
4923.4 Radio San Miguel, Riberalta, Bolivia (v)
4924.9 Radio Difusora, Taubaté, Brazil
4925.0 RRI Jambi, Indonesia
4925.0 Radio Mozambique, Mozambique
4926.0 Radio Nacional, Equatorial Guinea
4927.0 RRI Jambi, Indonesia
4930.0 Yunnan People's Broadcasting Station, China (v)
4930.0 Radio Internacional, San Pedro Sula, Honduras
4930.0 Namibian Broadcasting Corporation, Namibia
4930.0 Turkmen Radio, Turkmenistan
4931.0 RRI Surakarta, Indonesia (v)
4935.0 Radio Capixaba, Vitória, Brazil
4935.0 Radio Difusora, Jatai, Brazil
4935.0 Kenya Broadcasting Corporation, Kenya
4935.0 Radio Tropical, Tarapoto, Peru (v)
4939.2 Radio Norte, Montero, Bolivia (v)
4939.5 Radio Amazonas, Puerto Ayacucho, Venezuela (v)
4940.0 Hua-yi Broadcasting Corporation, Fuzhou, China
4940.0 All India Radio, Guwahati, India
4940.0 Radio San Antonio, Peru (v)
4940.0 Radio Mix Master, Russia
4940.0 SLBC, Sri Lanka
4945.0 Radio Illimani, La Paz, Bolivia
4945.0 Emissora Rural A Voz do Sao Francisco, Petrolina, Brazil (v)
4945.0 Radio Difusora, Pocos de Caldas, Brazil
4945.0 Radio Progreso, Porto Velho, Brazil (v)
4945.0 Channel Africa, Meyerton, South-Africa
4949.9 Radio Baha'i, Otavalo, Ecuador (v)
4950.0 Voice of America, Pinheira, Sao Tome
4950.0 Radio Nacional de Angola, Angola (v)
4950.0 Voice of Pujiang, Shanghai, China
4950.0 All India Radio, Srinagar, India
4950.0 Nei Menggu People's Broadcasting Station, China
4950.1 Radio Madre de Dios, Peru (v)
4955.0 Radio Clube, Rondonopolis, Brazil
4955.0 Radio Cultura, Campos, Brazil
4955.0 Radio Difusora Nacional de Colombia, Bogota, Colombia
4955.4 Radio Cultural Amauta, Huanta, Peru (v)
4960.0 All India Radio, Ranchi, India
4960.0 Radio Vanuatu, Vanuatu
4960.0 SIBC Honiara, Salomon Islands
4960.0 VOA, Sao Tome
4960.0 Voice of Vietnam, Vietnam
4960.1 Radio Federacion, Sucua, Ecuador
4960.2 Radio Villa, Santo Domingo, Dominican Republic (v)
4960.3 Radio HRET, Puerto Lempira, Honduras
4965.0 Radio Alvorada, Parintins, Brazil
4965.0 Christian Voice, Zambia
4965.0 Provincial Station Radio Son La, Vietnam
4969.5 Radio Imagen, Tarapoto, Peru (v)
4970.0 Radio Rumbos, Villa de Cura, Colombia
4970.0 All India Radio, Shillong, India
4970.0 SLBC, Sri Lanka
4974.8 Radio del Pacifico, Lima, Peru (v)
4975.0 Radio Timbira do Maranhão, São Luís, Brazil
4975.0 Radio Mundial, São Paulo, Brazil
4975.0 Fujian People's Broadcasting Station, Fuzhou, China
4975.0 Radio Ondas del Orteguzza, Colombia
4975.0 Voice of Russia, Russia
4975.0 Tajik Radio, Yangi-Yul, Tajikistan
4976.0 Radio Uganda, Kampala, Uganda
4980.0 Xinjiang People's Broadcasting Station, Urumqi, China
4980.0 Ecos del Torbes, San Cristobal, Venezuela
4985.0 Radio Brasil Central, Goiania, Brazil
4990.0 Voice of Armenia, Yerevan, Armenia
4990.0 Hunan People's Broadcasting Station, China
4990.0 All India Radio, Itanagar, India
4990.9 Radio Animas, Chocaya, Bolivia (v)
4990.9 Radio Apintie, Paramaribo, Surinam (v)
4991.0 Radio Ancash, Huaraz, Peru (v)
4993.0 AFRTS Sigonella, Italy
4995.0 Radio Omdurman, Sudan
4995.0 Mongol Radio and Television, Mongolia (v)
4995.8 Radio Andina, Huancayo, Peru (v)
5000.0 Provincial Station Binh Thuan, Vietnam
5000.0 Provincial Station Radio Yen Bai, Vietnam
5003.0 Radio Nacional, Equatorial Guinea (v)
5005.0 Radio Nepal, Nepal (v)
5005.0 RTM Kuching, Sibul, Malaysia
5009.5 Radio Madagascar, Madagascar (v)
5009.9 Radio Cristal Internacional, Dominican Republic (v)
5010.0 CRTV Radio Garoua, Cameroon (v)
5010.0 All India Radio, Thirupuram, India
5010.0 RTM Madagascar, Madagascar
5011.3 Escuelas Radiofónicas Populares / ERPE, Riobamba, Ecuador (v)

5014.8 Radio Pioneira de Teresina, Brazil (v)	5035.0 Radio Educacao Rural, Coari, Brazil (v)
5015.0 Emissora Provincial do Namibe, Angola	5035.0 Kazakh Radio, Alma Ata, Kazakhstan
5015.0 Radio Estacion Tarapoto, Peru (v)	5035.0 Radio Tashkent, Uzbekistan
5015.0 Radio Brasil Tropical, Cuiaba, Brazil (v)	5039.2 Radio Libertad, Junin, Peru (v)
5015.0 Radio Copacabana, Rio de Janeiro, Brazil (v)	5039.9 RRI Pekanbaru, Indonesia (v)
5015.0 Radio Rossii, Tavrichanka, Russia	5040.0 Fujian People's Broadcasting Station, China
5015.0 Turkmen Radio, Turkmenistan	5040.0 La Voz de Yopal, Colombia
5018.8 Radio Horizonte, Chahapoyas, Peru (v)	5040.0 Radio La Voz del Upano, Macas, Ecuador
5019.6 Ecos del Atrato, Quibda, Colombia	5040.0 All India Radio, Jeypore, India
5020.0 Jiangxi People's Broadcasting Station, China	5040.0 Georgian Radio, Dusheti, Georgia
5020.0 Xizang People's Broadcasting Station, China	5043.0 Emissora Provincial de Benguela, Angola
5020.0 ORTN Niamey, Niamey, Niger (v)	5045.0 Radio Cultura do Para, Belem, Brazil
5020.0 SIBC Honiara, Solomon Islands	5046.2 Radio Intergración, Peru (v)
5020.0 SLBC, Sri Lanka	5047.0 Radiodiffusion Togolaise, Lomé, Togo
5025.0 Northern Territory Shortwave Service, Katherine, Australia	5050.0 Guangxi Foreign Broadcasting Station, China
5025.0 Radio Jornal do Transamazonica, Altamira, Brazil	5050.0 The Voice of the Strait, China
5025.0 ORTB Parakou, Benin (v)	5050.0 All India Radio, Aizawl, India
5025.0 Radio Rebelde, Cuba	5050.0 Radio Tanzania, Dar-es-Salaam, Tanzania
5025.0 Radio Quillabamba, Peru (v)	5050.0 Quang Tri Broadcasting Station, Vietnam
5025.0 Radio Tashkent, Uzbekistan	5054.9 Radio Faro del Caribe, Costa Rica (v)
5026.0 Radio Uganda, Kampala, Uganda	5055.0 Radio Jornal A Critica, Manaus, Brazil(v)
5027.0 Radio Pakistan, Pakistan (v)	5055.0 Radio Difusora, Caceres, Brazil
5030.0 China National Radio, China	5055.0 RFO Cayenne, French Guyana (v)
5030.0 Adventist World Radio, Costa Rica	5055.0 Radio Pakistan, Pakistan
5030.0 Radio Tonga, Tonga	5060.0 Xinjiang People's Broadcasting Station, Urumqi, China
5030.0 Provincial Station Dia Tieng Noi, Vietnam	5060.0 Radio Tashkent, Uzbekistan
5033.0 RTV Centrafraicaine, Bangui, Central African Republic (v)	5060.5 Radio Bolivar, Peru (v)
5035.0 Radio Aparecida, Brazil (v)	v = variable frequency

('Raimo Mäkelä's Tropical Radio Stations' at the web, page last-modified: 20 Feb 2001 - version 12 Feb 2001, via JKB)

NEW ZEALAND: Radio New Zealand International - RNZI valid schedule 18 March to 06 May 2001. Address: P.O.Box 123, Wellington, New Zealand. Fax: 00 64 4 474 1433 and e-mail address is <info@rnzi.com>. Reception reports by e-mail or post are welcome and at the web <<http://www.rnzi.com/pages/contact.htm>> RNZI has provided forms of reception reports for e-mail (Netscape users only) and postal mail. Please do not send cassettes. All DX reception reports must contain detailed programme information for verification purposes and be accompanied by two International Reply Coupons (IRC) or US\$2 if a QSL is sought. E-mail reports will be verified by e-mail only.

UTC	kHz	Target	AZI	Day
1650-1850	6095	NE Pacific, Samoa, Cook Islands	35'	Monday to Friday
1851-2050	15120	All Pacific	0'	Daily
2051-0458	17675	All Pacific	0'	Daily
0459-0705	15120	All Pacific	0'	Daily
0706-1105	11720	All Pacific	0'	Daily
1106-1305*	15175	NW Pacific, Bougainville, East Timor, Asia	325'	Daily
1305-1650**	6095	All Pacific	0'	Daily

* Beam to the North Western Pacific and Asia: Programmes at this time are for the NZ Peace keeping Troops based in Bougainville and East Timor.

** Usual Closedown is 1305 UTC - this frequency is for occasional over-night broadcasts to the Pacific for Sports commentaries or Cyclone Warnings.

(RNZI website last-modified 28 Feb 2001 via JKB)

RUSSIA: Radio Gardarika is on the air on SW since from February, 22 2001. Schedule: 1900-2130 UTC on 6235 kHz daily. Direction of broadcasting: for Europe. All references about the programme should be addressed to: 192007, Sankt-Petersburg, Ligovskiy pr., 174, Radio Studio Doma Radio "Gardarika". E-mail: <studiosw@metroclub.ru> (Michail Timofeyev in RUS-DX #91 via Anatoly Klepov via WWDXC-HQ; February 24, 2001)

SWITZERLAND: Schedule version 28.02.2001 for period A01 of **Swiss Radio International - SRI**. Address: Swiss Radio International, Giacomettistrasse 1, CH-3000 Bern 15. Fax: +41-31-3509544, E-mail: technical@swissinfo.org, Web: <<http://www.swissinfo.org>>.

LANGUAGE	UTC	FREQ	STATION	kW	Azi	Target	Days 1=So
Arabic	1700-1730	15220	JUELICH	100	115	ME/AF/E	1234567
Arabic	1700-1730	17640	JUELICH	100	115	ME/neAF	1234567
Arabic	1700-1730	21720	SOTTENS	500	140	eAF/ME	1234567
Arabic	1900-1930	13770	SOTTENS	500	140	eAF	1234567
Arabic	1900-1930	15220	JUELICH	100	160	AF	1234567
Arabic	1900-1930	17580	JUELICH	100	200	nAF/wAF	1234567
Arabic	1900-1930	17735	MONTSINERY	500	115	sAF	1234567
English	0100-0200	9885	SOTTENS	500	295	eNA/CA	1234567
English	0230-0300	9885	SOTTENS	500	295	eNA/CA	1234567
English	0400-0430	9610	JUELICH	100	115	seEU	1234567
English	0400-0500	9885	SOTTENS	500	295	eNA/CA	1234567
English	0500-0530	9610	JUELICH	100	115	seEU	1234567
English	0730-0800	15545	JUELICH	100	160	nAF	1234567
English	0730-0800	17685	JUELICH	100	200	wAF	1234567
English	0730-0800	21750	SOTTENS	500	165	cAF/sAF	1234567
English	0830-0900	21770	SOTTENS	500	165	AF	1234567
English	1000-1030	15315	JUELICH	100	210	swEU	1234567
English	1100-1200	13735	KRANJI	250	25	cAS/eAS	1234567
English	1100-1200	21770	SOTTENS	500	80	eEU/AS	1234567
English	1200-1230	15315	JUELICH	100	210	swEU	1234567
English	1400-1500	9575	KRANJI	250	360	c/seASn	1234567
English	1400-1500	17680	SOTTENS	500	80	eEU/sAS	1234567
English	1730-1800	15220	JUELICH	100	115	ME/AF/E	1234567
English	1730-1800	17640	JUELICH	100	115	ME/neAF	1234567
English	1730-1800	21720	SOTTENS	500	140	eAF/ME	1234567
English	1900-1930	6110	JUELICH	100	290	wEU	1234567
English	1930-2030	13770	SOTTENS	500	140	eAF	1234567
English	1930-2030	15220	JUELICH	100	160	AF	1234567
English	1930-2030	17580	JUELICH	100	200	nAF/wAF	1234567
English	1930-2030	17735	MONTSINERY	500	115	sAF	1234567
English	2330-2400	9885	SOTTENS	500	230	SA	1234567
English	2330-2400	11905	MONTSINERY	500	175	SA	1234567
French	0200-0230	9885	SOTTENS	500	295	eNA/CA	1234567
French	0430-0500	9610	JUELICH	100	115	seEU	1234567
French	0500-0530	9885	SOTTENS	500	295	eNA/CA	1234567
French	0600-0630	15545	JUELICH	100	160	nAF	1234567
French	0600-0630	17685	JUELICH	100	200	wAF	1234567
French	0600-0630	21750	SOTTENS	500	165	cAF/sAF	1234567
French	1000-1030	21770	SOTTENS	500	165	AF	1234567
French	1100-1130	15315	JUELICH	100	210	swEU	1234567
French	1230-1300	13735	KRANJI	250	25	cAS/eAS	1234567
French	1230-1300	21770	SOTTENS	500	80	eEU/AS	1234567
French	1530-1600	9575	KRANJI	250	360	c/seASn	1234567
French	1530-1600	17680	SOTTENS	500	80	eEU/sAS	1234567
French	1800-1815	15220	JUELICH	100	115	ME/AF/E	1234567
French	1800-1815	17640	JUELICH	100	115	ME/neAF	1234567
French	1800-1815	21720	SOTTENS	500	140	eAF/ME	1234567
French	1830-1900	6110	JUELICH	100	290	wEU	1234567
French	2100-2130	13770	SOTTENS	500	140	eAF	1234567
French	2100-2130	15220	JUELICH	100	160	AF	1234567
French	2100-2130	17580	JUELICH	100	200	nAF/wAF	1234567
French	2100-2130	17735	MONTSINERY	500	115	sAF	1234567
French	2200-2230	9885	SOTTENS	500	230	SA	1234567
French	2200-2230	11905	MONTSINERY	500	175	SA	1234567
German	0030-0100	9885	SOTTENS	500	295	eNA/CA	1234567
German	0330-0400	9885	SOTTENS	500	295	eNA/CA	1234567

German	0530-0600	9610	JUELICH	100	115	seEU	1234567
German	0630-0700	15545	JUELICH	100	160	nAF	1234567
German	0630-0700	17685	JUELICH	100	200	wAF	1234567
German	0630-0700	21750	SOTTENS	500	165	cAF/sAF	1234567
German	0930-1000	21770	SOTTENS	500	165	AF	1234567
German	1030-1100	15315	JUELICH	100	210	swEU	1234567
German	1200-1230	13735	KRANJI	250	25	cAS/eAS	1234567
German	1200-1230	21770	SOTTENS	500	80	eEU/AS	1234567
German	1500-1530	9575	KRANJI	250	360	c/seASn	1234567
German	1500-1530	17680	SOTTENS	500	80	eEU/sAS	1234567
German	1730-1800	6110	JUELICH	100	290	wEU	1234567
German	2030-2100	13770	SOTTENS	500	140	eAF	1234567
German	2030-2100	15220	JUELICH	100	160	AF	1234567
German	2030-2100	17580	JUELICH	100	200	nAF/wAF	1234567
German	2030-2100	17735	MONTSINERY	500	115	sAF	1234567
German	2230-2300	9885	SOTTENS	500	230	SA	1234567
German	2230-2300	11905	MONTSINERY	500	175	SA	1234567
Italian	0300-0330	9885	SOTTENS	500	295	eNA/CA	1234567
Italian	0530-0545	9885	SOTTENS	500	295	eNA/CA	1234567
Italian	0600-0630	9610	JUELICH	100	115	seEU	1234567
Italian	0700-0730	15545	JUELICH	100	160	nAF	1234567
Italian	0700-0730	17685	JUELICH	100	200	wAF	1234567
Italian	0700-0730	21750	SOTTENS	500	165	cAF/sAF	1234567
Italian	0900-0930	21770	SOTTENS	500	165	AF	1234567
Italian	1130-1200	15315	JUELICH	100	210	swEU	1234567
Italian	1300-1330	13735	KRANJI	250	25	cAS/eAS	1234567
Italian	1300-1330	21770	SOTTENS	500	80	eEU/AS	1234567
Italian	1630-1700	15220	JUELICH	100	115	ME/AF/E	1234567
Italian	1630-1700	17640	JUELICH	100	115	ME/neAF	1234567
Italian	1630-1700	21720	SOTTENS	500	140	eAF/ME	1234567
Italian	1800-1830	6110	JUELICH	100	290	wEU	1234567
Italian	1830-1900	13770	SOTTENS	500	140	eAF	1234567
Italian	1830-1900	15220	JUELICH	100	160	AF	1234567
Italian	1830-1900	17580	JUELICH	100	200	nAF/wAF	1234567
Italian	1830-1900	17735	MONTSINERY	500	115	sAF	1234567
Italian	2300-2330	9885	SOTTENS	500	230	SA	1234567
Italian	2300-2330	11905	MONTSINERY	500	175	SA	1234567

(Schedule via WB, 5 Mar 2001)

TURKEY: A01 pperational schedule 25.03.01 - 28.10.01 of **Voice of Turkey - VOT**.
Address: Voice of Turkey, PO Box 333, Yenisehir 06443, Ankara, Turkey. Fax: +90-312-490-9845/9846.

Transmitter Sites:

CAKIRLAR 32 E 40 39 N 58

EMIRLER 32 E 51 39 N 29

Freq.	From	To	CIRAF ZONES	Site	Pwr	* Days	Mode	Language
5960	1600	0400	38E,39, 40	CAK	250	1234567	DSB	Turkish
5980	1600	0400	18,27,28,37E,38W	CAK	250	1234567	DSB	Turkish
5990	1800	1900	27,28, 37N	CAK	500	1234567	DSB	Bosnian
6115	1700	1800	29,30,40-44	EMR	500	1234567	DSB	Uzbek
6175	1800	1900	20-24,29-35	EMR	250	1234567	DSB	Tatar
7115	0300	0400	2-7,10,18, 27N,28	EMR	500	1234567	DSB	English
7170	2030	2130	39-41,49,54,55,58-60	EMR	500	1234567	DSB	English
7190	2200	2300	9,17,18S,27,28W, 37N	EMR	500	1234567	DSB	English
7220	1700	2200	37,38,46	EMR	500	1234567	DSB	Turkish
7270	0300	0400	38E,39,40W	EMR	500	1234567	DSB	English
9445	2100	0700	4,7-11,27,28	CAK	500	1234567	DSB	Turkish
9460	0700	2100	27,28	CAK	500	1234567	DSB	Turkish
9460	2100	0700	8E,9,11-13,27,28,37N	CAK	500	1234567	DSB	Turkish
9535	1930	2030	37,38,46	CAK	500	1234567	DSB	French
9555	0100	0200	30,31,40N,42	EMR	500	1234567	DSB	Uzbek

9560	1600	2200	39-41,49,50,54,55,58-60	EMR	500	1234567	DSB	Turkish
9560	2200	2400	39-41,49,54,55,58,59	EMR	500	1234567	DSB	Turkish
9590	1730	1830	18,27,28	EMR	500	1234567	USB	German
9630	1030	1130	39N	CAK	250	1234567	DSB	Greek
9635	1930	2030	27,28	EMR	500	1234567	DSB	French
9655	1430	1530	28S	EMR	250	1234567	DSB	Greek
9675	1700	1800	19-26,29, 30N,31N	CAK	500	1234567	DSB	Russian
9730	1830	1930	18S,27,28	EMR	500	1234567	USB	English
9785	1830	1930	18S,27,28	EMR	500	1234567	DSB	English
9870	1330	1430	28S	EMR	250	1234567	DSB	Bulgarian
11655	0300	0400	2-7,10,18, 27N,28	EMR	500	1234567	DSB	English **
11690	0700	0800	29S,30S,39N,40N	EMR	500	1234567	DSB	Georgian
11690	0800	0900	28S	EMR	250	1234567	DSB	Macedonian
11690	0900	1100	38E, 39NW, 48N	EMR	500	1234567	DSB	Arabic
11730	0700	0830	29SE,40NW	CAK	250	1234567	DSB	Azerbaijani
11750	0400	0900	29SE, 39NE, 40NW	CAK	250	1234567	DSB	Turkish
11795	0830	0930	39N, 40NW	CAK	250	1234567	DSB	Persian
11845	2200	2300	4,7E,8,9,11,27,28W	EMR	500	1234567	DSB	English
11860	1330	1400	28	EMR	250	1234567	DSB	Serbian
11860	1500	1600	29-33,40,42-44	EMR	500	1234567	DSB	Kazakh
11865	1400	1500	29S,30S,39N,40, 41N	EMR	500	1234567	DSB	Azerbaijani
11865	1600	1700	29-31, 39E,40-44	CAK	500	1234567	DSB	Kyrgyz
11875	1130	1230	28	CAK	250	1234567	DSB	Albanian
11885	2200	0400	3-11,18, 27,28	EMR	500	1234567	DSB	Turkish
11905	1530	1630	29,30,39N,40-42	EMR	500	1234567	DSB	Turkmen
11910	0400	0700	18,27,28	CAK	250	1234567	DSB	Turkish
11910	1900	2200	18S,27,28	EMR	500	1234567	USB	Turkish
11930	0930	1030	28E	CAK	250	1234567	DSB	Rumanian
11930	1030	1130	28S	EMR	500	1234567	DSB	Greek
11955	0400	1600	38E,39, 40W	CAK	250	1234567	DSB	Turkish
11970	1600	1630	28	EMR	250	1234567	DSB	Croatian
13640	1730	1830	18S,27, 28W	EMR	500	1234567	DSB	German
13655	1200	1600	39-41,49,50,54,55,58-60	EMR	500	1234567	DSB	Turkish
13665	1930	2030	27,28W	EMR	500	1234567	USB	French
13770	0930	1030	27,28	EMR	500	1234567	DSB	Hungarian
15150	1630	1700	27S,28, 37N	EMR	500	1234567	DSB	Spanish
15180	1230	1400	40, 41N	CAK	250	1234567	DSB	Persian
15225	1400	1600	38,39, 40W	CAK	250	1234567	DSB	Arabic
15350	0700	1600	18S,27,28,37N	CAK	500	1234567	DSB	Turkish
15450	1300	1400	19-22,29, 30	EMR	500	1234567	DSB	Russian
17580	0400	0900	39E, 40	EMR	500	1234567	DSB	Turkish
17600	0900	1100	39	EMR	500	1234567	DSB	Arabic
17630	1000	1500	37,38	CAK	250	6	DSB	Turkish
17690	0400	0700	30,40,42	EMR	500	1234567	DSB	Turkish
17705	0830	0930	40	EMR	500	1234567	DSB	Persian
17715	1200	1300	40,41N, 49,54,55	EMR	500	1234567	DSB	Urdu
17755	0700	0830	30S,40	EMR	500	1234567	DSB	Azerbaijani
17760	1130	1230	27,28	EMR	500	1234567	DSB	German
17790	1400	1600	37,38W, 46	EMR	500	1234567	DSB	Arabic
17810	1230	1330	30S,40, 41,49,54,55,58N	EMR	500	1234567	DSB	English
17830	1230	1330	18S,27, 28W	EMR	500	1234567	DSB	English
21530	1100	1200	30-32,42-44,64	EMR	500	1234567	DSB	Chinese
21715	0300	0400	40,41,49,54,58N	EMR	500	1234567	DSB	English
21715	0400	1200	39-41,49,54,58N	EMR	500	1234567	DSB	Turkish
21715	0000	0300	39-41,49,54	EMR	500	1234567	DSB	Turkish

* Days of Operation: 1: Sunday, 2:Monday, .., 7:Saturday

** 25.03.01 - 01.09.01 (TRT Frequency Management via WB, 5 Mar 2001)

USA: In January, as part of its most recent strategic review, the U.S. Broadcasting Board of Governors required **Radio Free Europe / Radio Liberty** to curtail shortwave broadcasts in Latvian, Lithuanian, Armenian, Bulgarian, Romanian,

Russian, and Ukrainian as allowed by expanded FM rebroadcasting. Latvian and Lithuanian are the first and, so far, only RFE/RL services to have their shortwave transmissions eliminated because of this directive. RFE/RL Latvian and Lithuanian continue via live Internet audio feeds at <<http://www.rferl.org>>. (Comm. World 3 March 2001, via JKB)

Sources & Contributors:

BP Bob Padula - Australia.
 Comm. World Communications World, hosted by Dr. Kim Andrew Elliott, VOA - USA.
 DXLD Glenn Hauser's DX LISTENING DIGEST - USA.
 JKB Dr. Juergen Kubiak, Berlin - Germany.
 RUS-DX Information bulletin of Russian DX League - Russia.
 WB Wolfgang W. Bueschel, Stuttgart - Germany.
 WWDXC-HQ WWDXC Headquarter / Michael Bethge, Bad Homburg - 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	
Sp Spanish	
Turk Turkish	

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DX LOGBOOK

Logs around the clock

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LONGWAVE & MEDIUMWAVE BANDS

Frequ.	UTC	SINPO	ITU	Radio Station	Language	Programme Details	Date	Rep.
162.0	1955	23332	UZB	Radio Uzbek	Uzbek	Music	1102	HO
171.0	0400	33332	RUS	Radio Chechnya Svobodna	Russian	Talks	1102	PP
252.0	1745	25332	TJK	Radio Tajik	Tajik	Local Music	1102	HO
261.0	0400	33332	RUS	Radio Rossii. Taldom	Russian	Talks	1102	PP
531.0	1519	33443	RUS	Radio Chuvash	Russian	Talks	2102	OS
540.0	1302	34433	PAK	Radio Pakistan	English	News	0103	OS
558.0	1030	35333	IRN	IRIB 1	Persian	Talk and Patriotic song	2003	OS
558.0	0948	35343	CHN	Xinziang PBS	Uighur	Concert.IS.ID and News	2102	OS
576.0	1000	33443	UZB	Uzbek Radio	Kyrgyz	News and Talks	2102	OS
585.0	1159	21421	RUS	Voice of Russia.Belogorsk	Chinese	Jingle	0103	OS
603.0	1200	44444	TWN	CBS	Chinese	ID and Program	1502	OS
603.0	1930	44333	IRN	VOIRI. Teheran	English	ID and News	1202	OS
621.0	1145	33433	RUS	Radio Dagestan	Russian	Live-in Concert	1602	OS
639.0	1209	55555	RUS	Radio Russia.Omsk	Russian	Advertisement and News	1502	OS
648.0	2000	33433	UZB	Radio Uzbek	Uzbek	ID by YL and Songs	2802	OS
657.0	1230	44444	IRN	IRIB. Tehran	Farsi	ID and News	2501	OS
666.0	1402	35443	RUS	BBC	English	News	0702	OS
675.0	1400	43443	RUS	Radio Resonans	Russian	ID and Program	0702	OS
675.0	2130	34444	NLD	Radio Tien.Lopik	Dutch	Popular Music	0501	PB
675.0	2108	43433	QAT	Qatar Broadcastings Service. Doha	Arabic	World News and ID	2102	OS
693.0	2007	33422	G	Radio 5 Live	English	Report by OM	1602	OS
702.0	1205	35422	J	NHK-2	Japanese	Talks by OM	1302	OS
702.0	1351	44444	IRN	IRIB	Kazak	ID and Sked	0702	OS
747.0	1328	34322	J	NHK - 2	English	Lessons	0702	OS
756.0	1220	34333	RUS	Radio Mayak.Petrozavodsk	Russian	ID and songs	2102	OS
756.0	1612	43433	PAK	Radio Pakistan	English	News	0802	OS
765.0	1148	24322	KRE	KCBS	Korean	Talks by OM	1302	OS
774.0	1328	34322	J	NHK - 2	English	Lessons	0702	OS
792.0	1130	35433	RUS	Radio Khakasia	Abakhan	Songs & Local News	1302	OS
792.0	1900	44433	YEM	Radio Yemen. Al - Isawah	Arabic	ID and News	1902	OS
801.0	1404	43433	AZE	Radio Baku	Russian	News and ID	0702	OS
801.0	1230	25422	IND	All India Radio.Jabalpur	Hindi	Songs	0103	OS
810.0	2202	42432	G	BBC Radio Scotland	English	News	1602	OS
810.0	1610	43443	UAE	UAE Radio	Arabic	ID and Chants from Koran	0802	OS
819.0	1231	35443	IND	All India Radio. DElhi	Hindi	Songs	0103	OS
837.0	1952	43433	F	Radio Bleue	French	Talks	1602	OS
846.0	1922	44433	RUS	Radio Radonezh	Russian	Christian Program	1202	OS
918.0	1431	43533	IND	All India Radio.Suratgarh	Hindi	Songs	2102	OS
927.0	1815	32422	BEL	BRT - 1	Dutch	Talks by OM and YL	0802	OS
936.0	1409	44333	RUS	Radio Orenburg	Russian	Weather Report	0702	OS
945.0	1917	43433	LVA	Radio Free Europe	Latvian	Talk on Kalilingrad	1202	OS
963.0	1948	43433	FIN	Radio Finland.YLE.Helsinki	Finnish	Talks on Finland	1602	OS
972.0	1648	44444	TJK	Radio Dushanbe	English	Talks on Tajikistan	1602	OS

972.0	2254	33433	D	NDR	German	Talks by Lady	1902	OS
972.0	1339	34343	KOR	KBS. Seoul	Korean	Radio show	0702	OS
981.0	2021	34422	CHN	CNR 1	Chinese	Music	1202	OS
999.0	2308	34322	E	COPE. Madrid	Spanish	Talks by OM	1902	OS
1062.0	2104	43443	DNK	Radio Denmark	English	News	3001	PB
1071.0	1927	43433	IND	All India Radio. Ext. Sce	Urdu	Songs and ID	2102	OS
1071.0	1313	34333	KAZ	Radio Ust-Kamenogorsk	Russian	Local Talks	0702	OS
1098.0	1345	44433	TWN	CBS-1	Chinese	Songs and ID	0702	OS
1098.0	1556	24322	RUS	Radio Vologda	Russian	Advertisements	0802	OS
1143.0	2220	33422	BUL	Radio Horisont	Bulgarian	Songs	1902	OS
1143.0	1222	35322	PHL	VOA	English	Talk on America. ID Jingle	1302	OS
1152.0	1653	43433	UAE	UAE Radio. Ras al Kaimah	Arabic	Songs	1602	OS
1170.0	2138	42332	BLR	Radio Minsk	German	ID and News	0702	HJK
1179.0	2045	43433	SWE	Radio Sweden	English	News	0502	PB
1188.0	2000	34422	HNG	RFE	Serbian	ID and News	1902	OS
1215.0	2235	44344	ALB	Radio Tirana	English	News and Commentary	2912	PB
1242.0	2106	34333	OMA	Radio Oman	Arabic	Talks and European Music	1602	OS
1287.0	2304	44433	ISR	Galey Zahal	Hebrew	Music and Talks	1902	OS
1341.0	2203	32422	G	BBC Radio Ulster	English	ID.Music and Talks	2802	OS
1350.0	2148	34444	ARM	VOA	English	ID and Talks	0702	HJK
1377.0	1821	34322	F	Radio Bleue	French	Talks by OM	1602	OS
1422.0	2230	44444	D	Duetschland Funk	German	News and Talks	0601	PB
1449.0	2137	24432	I	RAI. Due	Italian	Song and Talks	2802	OS
1494.0	1930	44444	RUS	TWR	Finnish	Christian Program	1602	OS
1512.0	1630	32333	BEL	Duetsche Welle via Wolverton	German	News	0501	PB
1530.0	1948	24422	CVA	Radio Vatican	Latin	Christian Prayers	1202	OS
1530.0	2105	32522	STP	VOA	English	News and ID	1202	OS
1557.0	2125	43433	F	Radio Bleue	French	Songs by Call request	1902	OS
1575.0	1800	32432	THA	VOA	English	Jingle and sign off	0802	OS
1575.0	1937	44444	KWT	Al Mustaqbal	Arabic	ID as Huna Al Mustaqbal	1202	OS
1593.0	1853	34322	D	Radio Free Europe	Serbian	ID and Sked	1202	OS
1611.0	1959	25422	CVA	Radio Vatican	Latin	Jingle	1202	OS

TROPICAL BANDS

Frequ.	UTC	SINPO	ITU	Radio Station	Language	Programme Details	Date	Rep.
3365.0	1202	33322	PNG	Radio Minle Bay. Alotau	Pidgin	Rock Music	0403	GI
3976.1	1250	33332	INS	RRI.Pontianak	Indonesian	Pop Music and News	2502	JY
3940.0	0604	35433	D	Vlaamse RTV via DTK.Julich	Dutch	ID.News and Weather Report	0702	HJK
3945.0	1546	14321	IND	All India Radio. Delhi	Urdu	Folklore Music	0802	HJK
3955.0	2046	55444	G	Radio Korea Intl.. via Skelton	German	Program	0702	HJK
3985.0	2031	45444	I	Radio Waves Intl.. via IRRS Milano	English	Country Music from Texas	0902	HJK
4010.0	1720	35333	KGZ	Kyrgyz Radio. Bishkek	Russian	Talks	1102	HO
4606.4	1252	33332	INS	RRI.Serui	Indonesian	News and ID	1702	JY
4750.0	1040	33332	CHN	Hulunbei'er PBS. Hailar	Mongolian	Talks	1102	HO
4753.4	1330	33332	INS	RRI.Makassar	Indonesian	Program-Siaren Pendidikan	2502	JY
4785.1	0151	13222	BRA	Radio Caiari. Porto Velho	Portugese	Religious Program	0803	DC
4795.0	1200	35333	RUS	Radio Buryatskoe	Russian	News and Music	0302	HO
4800.0	0356	33333	LSO	Lesotho National B.S. Lancer's Gap	English	Tribal Vocals and ID	1702	RAD
4810.0	0347	33332	ARM	National Radio of Armenia. Kamo	Farsi	ID and News	2402	RAD
4875.0	0940	34433	BOL	La Cruz del Sur. La Paz	Ayamara	Talks by man	1302	ALS
4881.0	0945	23322	PRU	Radio Comas TV. Comas. Gran Lima	Spanish	Religious Program	0803	ALS
4914.7	1110	32223	PRU	Radio Cora del Peru. Lima	Spanish	Talk about Christianity	1102	HO
4940.0	0855	34433	RUS	Radio Mix Master. Yakutsk	Russian	Program	0302	HO
4980.0	1100	24332	VEN	Ecos del Torbes. San Cristobal	Spanish	Music	1102	HO
4990.9	0432	33333	SUR	Radio Apintie. Paramaribo	Papiamento	Car Wash and ID	1502	RAD
5004.0	1704	22232	NPL	Radio Nepal. Kathmandu	Nepali	Hindi Songs	1501	ZL
5019.7	0340	44443	CLM	Ecos del Atrato . Quibdo	Spanish	News and Program	2402	RAD
5020.5	2240	22222	NGR	La Voix du Sahel. Niamey	French	Hilife Vocals	2402	RAD

5054.9	0438	33332	CTR	Faro del Caribe. San Isidro	Spanish	Vocals	1602	RAD
5060.0	1135	34332	UZB	Radio Tashkent	Uzbek	ID and Songs	2502	GI
5060.0	1050	35333	CHN	Xinjiang PBS. Urumqui	Mongolian	Local Music	1102	HO
5100.0	2055	24332	LBR	Radio Liberia International	English	Program and Talks	0802	IN

SHORTWAVE

Frequ.	UTC	SINPO	ITU	Radio Station	Language	Programme Details	Date	Rep.
5745.0	2033	55444	USA	World Radio Harvest Intl..	English	Preachings on God	1301	MAH
5770.0	0149	22222	NCG	Radio Miskud	Spanish	Music	1702	WS
5895.0	0124	34433	GRC	Voice of Greece	Greek	Musical Program	1001	MAH
5915.0	2225	44554	FRA	Radio France Intl..	Polish	News and Commentary	2812	PB
5925.0	2205	34333	RUS	Duetsche Welle	German	ID with Rock & Roll Music	1002	HJK
5930.0	2010	23222	CZE	Radio Prague	English	Czech Head's visit to India	1203	DG
5940.0	2040	24422	RUS	Magadan Radio. Arman	Russian	Comments	1301	MAH
5945.0	2030	22222	AUT	ORF. Radio Austria Intl.. Vienna	Spanish	News	2002	DG
5975.0	2358	55555	ATG	BBC.WS via Antigua relay	English	Classical Music	0701	MAH
5975.0	0710	45444	D	Voice of Hope via DTK.Julich	English	Religious Program	1002	HJK
5985.0	1720	42332	COG	Radio Congo.Brazzaville	French	ID and Political Talks	0802	HJK
6000.0	0142	44444	CUB	Radio Habana	English	Dxers Unlimited by Arnie Coro	1001	MAH
6010.0	0700	44444	I	Voice of Malta via Italy relay	English	ID and welcome to Malta Island	1002	HJK
6025.0	2000	44444	HNG	Radio Budapest	English	News	1602	DG
6025.0	1011	33433	BOL	Radio Illimani. La Paz	Ayamara	Andean Music by lady	1302	ALS
6030.0	2359	33333	USA	Radio Marti. Greenville	Spanish	Frequency Ann. And Music	0701	MAH
6035.0	2050	24443	STP	VOA. Pinheira	English	Comments on Africa	1301	MAH
6035.0	1650	32433	POL	Radio Polonia	Polish	About US president	1801	PB
6035.0	0359	33333	SWA	TWR.Manzini	English	ID and Program	1802	WS
6045.0	1000	45444	D	Hamburg Local Radio via DTK.Julich	German	S/on and Swing and Dance Mx.	1002	HJK
6045.0	1540	34333	IND	All India Radio.Delhi	Urdu	Political Talks and Folklore Mx.	0802	HJK
6055.0	1310	55444	CZE	Radio Prague	German	Program	0802	HJK
6055.0	0546	45333	SPA	Radio Exterior de Espana	English	Radio Waves	2801	RL
6065.0	0100	43444	IRN	VOIRI.Teheran	English	Mailbag	3012	PB
6070.0	0452	33333	CAN	CFRX.Toronto	English	Program	1702	WS
6090.0	2332	34333	AIA	Dr.Gene Scott	English	Religious Program	0702	HJK
6100.0	2205	44444	IRN	IRIB.Teheran	Bosnian	Political Magazine ID and IS	0902	HJK
6110.0	1334	45444	D	The Overcomer Ministry via DTK.Julich	English	Religious Program	0802	HJK
6110.0	2010	43433	IRN	IRIB.Teheran	English	Mailback Px.	0902	HJK
6115.0	2130	43444	G	Radio Japan NHK via Skelton	English	About Jazz singer	0501	PB
6134.9	0234	44443	MEX	Radio Educacion	English	Mexican History	1802	WS
6135.0	0633	44333	ROU	Radio Romania Intl..	German	Political News	1002	HJK
6135.0	0957	33433	BOL	Radio Santa Cruz. Santa Cruz	Spanish	Advts. and Announcements	1302	ALS
6135.0	2156	34433	CHN	Radio China Intl..	French	ID.Political Report on Africa	1002	HJK
6140.0	1320	44433	URG	Radio Monte Carlo. Montevideo	Spanish	Cycle Competition & Advts.	0303	ALS
6150.0	1450	33433	SNG	Class 95 FM. Singapore	English	Pop Music	0802	HJK
6160.0	0328	43333	CAN	CKZU.Terry Palmerstein	English	Program	1802	WS
6165.0	1840	54444	CVA	Swiss Radio Intl.. via Vatican relay	German	Program	0802	HJK
6175.0	2137	34443	FRA	Radio France Intl..	French	Discussion.Music and News	1301	MAH
6180.0	2142	34433	CYP	BBC Relay via Cyprus	English	Listeners Mailbag Program	1301	MAH
6180.0	1742	43433	IRN	IRIB.Teheran	German	News & Islamic Revolution	0802	HJK
6185.0	2143	33333	SRB	Radio Yugoslavia.Bosnia	French	Comments	1301	MAH
6185.0	0148	34333	MEX	Radio Educacion	Spanish	ID. Folklore songs from Mexico	0802	HJK
6235.0	2043	45444	RUS	Radio Gardarika	Russian	Musical Program and ID	0403	DC
6245.0	1902	45444	RUS	Radio Stanzia Radonesh	Russian	Religious Program and ID	0902	HJK
6249.3	1557	23322	GNE	Radio Nacional. Malabo	Spanish	African Folklore Music & News	0802	HJK
6265.0	2147	13222	ZMB	Zambia National Broadc. Corp.	English	Comments by OM	1301	MAH
6275.0	1615	25322	D	Duetshe Welle	German	ID and Report from Afghanistan	0802	HJK
6279.7	2140	34333	TWN	Radio Taipei Intl..	Spanish	ID & Pop Music from Taiwan	0902	HJK
6300.0	2245	35444	TWN	WYFR. relay from Taiwan	Chinese	Religious program. Choir	0702	HJK
6398.9	2324	25433	KRE	PBS.Kanggye	Korean	Folklore songs by a Woman	0702	HJK
6480.0	1804	32432	KOR	Radio Korea Intl..	German	News	1002	HJK
6575.0	1916	44444	KRE	Radio Pyongyang	English	Commentary on NATO and ID	0902	HJK

6695.0	1210	24333	VTN	Radio Lao Cai	Vietnamese	Songs and Marching Music	2502	GI
6750.0	2320	25433	CHN	CBPS 1	Chinese	Political Report on Bangladesh	0702	HJK
6850.1	1635	32432	IRQ	Voice of the Mojahed	Persian	Political Talks	0802	HJK
6930.0	1920	34333	RUS	Radio Rossii	Russian	ID.Jingle and Pop Music	0902	HJK
6973.0	2251	45444	ISR	Galei Zahal	Hebrew	Political Talks	0702	HJK
7105.0	2159	24422	BLR	Radio Minsk	German	Annoucement	1301	MAH
7105.0	2200	11111	BIH	Radio Bosnia-Hercegovinia	Bosnian	News	1301	MAH
7115.0	1530	34333	IRN	IRIB.Teheran	English	ID.Koran and News	0802	HJK
7115.0	0137	33332	CLN	VOA via Iranawila relay	English	Communications World	1702	WS
7120.0	1830	43333	CHN	Radio China International	French	IS.ID and News	0802	HJK
7125.0	2205	22222	GUI	RTV Guineenne.Conakry	French	News	1301	MAH
7125.0	1950	44444	TUR	TRT.Ankara	English	ID. Turkish Pop Songs	0902	HJK
7135.0	2003	33333	HNG	Radio Budapest	English	World News	1101	MAH
7140.0	2216	33333	CHN	CPBS.Beijing	Chinese	Comments	1301	MAH
7160.0	1642	34333	SNG	BBC. Singapore	English	Report on Internet Market	0702	HJK
7170.0	1516	43333	RUS	Radio Golos Rossii	Russian	ID.Magazine.Political Talks	0802	HJK
7170.0	1527	32332	SNG	Radio Oli 96.8 FM	Tamil	Asian songs and Jingles	0802	HJK
7195.0	2225	33333	G	VOA via Woofferton relay	Serbian	Language Lessons	1301	MAH
7200.0	2228	33333	BUL	Radio Bulgaria	English	Comments on Languages	1301	MAH.
7205.0	2214	54444	CYP	Cyprus Broadcasting Corp.. Zygi	Greek	Interval signal. ID and Music	1301	MAH
7210.0	2030	22222	BLR	Radio Belarus	English	News	0602	DG
7215.0	0100	33333	UZB	Radio Tashkent	English	DX-Program	1702	WS
7220.0	2231	43333	SPA	Radio Liberty	Russian	Comments And Music	1301	MAH
7225.0	2233	43333	TUN	RTV Tunisienne	Arabic	Phone Interveiw	1301	MAH
7230.0	1656	43333	IND	All India Radio.Delhi	Persian	Non stop Folk songs	0702	HJK
7235.0	1507	45444	SNG	Radio Warna 94.2	Malay	Pop Music	0802	HJK
7245.0	0800	55444	SVK	Radio Slovakia Intl..	German	Political Talks	0802	HJK
7250.0	2047	34443	CVA	Radio Vatican	French	Comments	1101	MAH
7265.0	0700	33332	D	Sudwest Rundfunk	German	News	1802	WS
7325.0	0235	53433	AUT	Radio Austria Intl.. Vienna	English	Weekly Mailbag Program	1102	RL
7345.0	1945	33222	SLK	Radio Slovakia	English	News	2002	DG
7345.0	0220	44433	CZE	Radio Prague	English	Review of the Weeklies	1002	RL
7415.0	0146	45333	USA	WBCQ – The Planet. Kennebunk	English	RNI.John P.Lightning	1202	RL
7420.0	2129	34333	UKR	Radio Ukraine Intl..	German	Interview	0702	HJK
7420.0	2035	44444	MDA	European Beacon	English	DX-QSL	2312	PB
7425.0	0010	35444	USA	WEWN.Birmingham	Spanish	Religious Program & Radio Play	0802	HJK
7435.0	0936	45444	USA	WWCR.Nashville	English	Country Music & Gospel Songs	0802	HJK
7440.0	1427	34333	RUS	Radio Rossii	Russian	ID.Jingles & old ABBA Songs	1002	HJK
7450.0	0659	35333	CTR	RFPI. Costa Rica	English	Bush Tax Plan	0403	RL
7465.0	1000	45444	USA	WEWN.Birmingham	English	S/on and Religious Program	0802	HJK
7490.0	0926	25433	USA	WJCR.Upton	English	American Country Music	0802	HJK
7500.0	2255	44433	BUL	Radio Bulgaria. Sofia	English	Radio Bulgaria Calling	1002	RL
7510.0	1015	15321	USA	KTBN.Salt Lake City	English	Religious Program	0802	HJK
9355.0	2100	35433	USA	Radio Taipei Intl.. via WYFR relay	German	News and other programs	0702	HJK
9369.8	1020	25322	USA	WTJC.Newport	English	Religious Program and Music	0802	HJK
9375.0	2147	44444	GRC	Voice of Greece. Kavalla	Greek	Talk Program	0701	MAH
9390.0	2150	55555	ISR	KOL Israel. Jerusalem	Hebrew	Songs by Man	0701	MAH
9400.0	0333	54533	BUL	Radio Bulgaria. Sofia	English	Mailbag Program	2602	RL
9405.0	1420	33323	PHL	FEBC Radio	Manadrin	Talks	2701	HVG
9410.0	2154	44444	CYP	BBC. Ws via Cyprus relay	English	Auto rally in Morocco	0701	MAH
9420.0	0610	44444	GRC	Voice of Greece. Athens	English	News about civilian deaths	1303	DG
9435.0	2157	23322	CZE	Radio Prague	Spanish	Interval signal ID in may lang.	0701	MAH
9440.0	1405	43443	SVK	Radio Slovakia Intl..	Russian	News	1202	IN
9445.0	2159	54444	TUR	Voice of Turkey. Ankara	Turkish	Instrumental Music and ID	0701	MAH
9465.0	1545	33422	MRA	KFBS.Saipan	German	Religious Program	0702	HJK
9475.0	2203	55555	USA	WWCR.Nashville	English	Religious Program	0701	MAH
9495.0	2205	54444	USA	WHRI. Noblesville	English	Religious Program	0701	MAH
9505.0	1619	24433	J	Radio Japan	Japanese	Comments And Music	1101	MAH
9510.0	0745	44444	FIn	Radio Finland.Pori	English	News	3101	PB

9515.0	2209	13322	ITA	RAI. Sicily	Italian	Talk Program	0701	MAH
9520.0	2212	55544	SPA	Radio Liberty	Russian	Instrumental Music	0701	MAH
9525.0	2129	34433	TUR	Voice of Turkey.Ankara	English	IS. ID and News	2302	HY
9530.0	2222	43333	MRC	VOA.Briech	Serbian	World News	0701	MAH
9535.0	1635	33333	QAT	Radio Qatar	Arabic	Phone Interveiw	1101	MAH
9535.0	1115	44444	D	Swiss Radio Intl.. via DTK relay	English	SRI Correspondents Program	1103	DG
9535.0	2225	33333	THA	VOA.Udon Thani	Indonesian	Comments and Music	0701	MAH
9545.0	2228	33322	D	Duestche Welle	German	Music and Comedy	0701	MAH
9550.0	2230	34443	CUB	Radio Habana	English	News & Talk Program	0701	MAH
9555.0	2232	44333	SDA	BSKSA. Riyadh	Arabic	News about Israel & Barak	0701	MAH
9560.0	0244	55433	CAN	Radio Sweden via Sackville relay	English	Money Matters	0802	RL
9570.0	2234	33333	QAT	Qatar Broadcasting Service	Arabic	News and Bridge Music	0701	MAH
9575.0	2236	33333	MRC	Radio Medi I	French	Songs by Group &Music	0701	MAH
9580.0	2238	34433	GAB	Africa No. 1. Moyabi	French	Music by Michael Jackson	0701	MAH
9580.0	1616	53333	AUS	Radio Australia	English	National Interest Perth	0402	RL
9590.0	2240	55555	CAN	BBC.WS via Sackville relay	English	Interview	0701	MAH
9605.0	0307	53433	ITA	Radio Vaticana	English	Ask about Abott Devils	0602	RL
9615.0	2243	43333	BRA	Radio Cultura. Sao Paulo	Portugese	Music	0701	MAH
9620.0	2304	44444	SPA	Radio Exterior de Espana	Spanish	World News	0701	MAH
9625.0	1107	32432	BOL	Radio Fides. La Paz	Spanish	News	1302	ALS
9625.0	2306	43333	CAN	CBC.NQS. Sackville	English	World News on Middle East	0701	MAH
9645.0	2309	33333	BRA	Radio Bandeirantes.Sao Paulo	Portugese	Comments and Music	0701	MAH
9655.0	0427	43433	TUR	Voice of Turkey. Ankara	English	DX-Corner	0403	RL
9665.0	2313	34433	BRA	Radio Marumby.Florianopolis	Portugese	Religious Program	0701	MAH
9675.0	2315	24333	ITA	RAI.Rome	Italian	Phone interview	0701	MAH
9685.0	2316	23322	BRA	Radio Gazeta. Sao Paulo	Portugese	Comments and Music	0701	MAH
9690.0	2317	33333	USA	Radio Taipei relay via USA	Spanish	News about Taiwan issues	0701	MAH
9705.0	2321	33333	MEX	Radio Mexico International	Spanish	Discussions	0701	MAH
9710.0	2322	24433	CHN	CPBS. Beijing	Chinese	Comments .Mx & Discussions	0701	MAH
9725.0	0915	34333	BRA	Radio Clube Paranaense.Curitiba	Portugese	News and ID	1202	IN
9730.0	1609	32333	VTN	Voice of Vietnam.Hanoi	English	International News and ID	2301	HVG
9737.4	0815	44443	PRG	Radio Nacional del Paraguay	Spanish	Guitar Music & ID	0303	GI
9745.0	0000	23432	EQA	HCJB.Pifo	English	ID.Program'Inside for living'	0702	HJK
9755.0	2328	55555	CAN	Radio Canada Intl..	English	Report on Video History	0701	MAH
9760.0	2213	34433	CYP	Cyprus Broadcasting Corporation	Greek	IS.ID and Talks	2301	HY
9765.0	0600	45444	EQA	HCJB.Pifo	German	DX-Program	1002	HJK
9770.0	2330	34443	THA	VOA	English	News and Comments	0701	MAH
9805.0	2334	33333	FRA	Radio France Intl..	French	News and Report	0701	MAH
9810.0	0224	54444	UKR	Radio Ukraine Intl..	Ukranian	Talks	1001	MAH
9815.0	2338	23333	D	Duetsche Welle	English	Documentary and Music	0701	MAH
9820.0	0128	35433	CUB	Radio Habana	English	ID.News and Mailbag Show	0802	HJK
9835.0	0403	33333	UKR	Radio Ukraine Intl..	German	Program	1802	WS
9835.0	0355	55333	HNG	Radio Budapest	English	DX-Show. DX-tips .RNZI Schd.	1102	RL
9845.0	2341	44444	NLA	Radio Nederands via Bonaire	English	Window on Holland	0701	MAH
9855.0	2343	55555	KWT	Radio Kuwait.Kabd	Arabic	Music	0701	MAH
9885.0	2346	34433	SWI	Swiss Radio Intl..	English	Interview about Alpine Region	0701	MAH
9885.0	0827	44433	GUF	Swiss Radio Intl.. via Montsinery	English	IS and ID	0303	GI
9895.0	2347	33333	NLD	Radio Nederands. Flevo	Spanish	Comm. on Tourism .Economy	0701	MAH
9895.0	1815	44444	IRL	Radio Telefiss Eireanne. Dublin	English	Opp. Meeting & Finanacial Nx	1302	DG
9900.0	2348	33333	EGY	Radio Cairo. Abis	English	Music	0701	MAH
9945.0	2351	55555	NOR	Radio Denmark via Norway	Danish	Comments and Discussions	0701	MAH
9955.0	2352	33333	USA	WRMI. Maimi	Spanish	Comments	0701	MAH
9975.0	2353	45544	USA	WEWN. Birmingham	English	About Pew and praying	0701	MAH
9988.0	1815	44444	EGY	Radio Cairo	Italian	News	0702	DG
10260.0	1652	35333	CHN	China National Radio 1	Chinese	ID and Talks	0802	HJK
11550.0	0651	25322	USA	WYFR	German	Religious Program	1002	HJK
11580.0	1105	25322	MRA	KFBS 2. Saipan	Mandarin	Religious Program and Choir	0802	HJK
11630.0	1130	45544	CHN	China National Radio	Chinese	Talks and ID	2502	HY
11650.0	1137	24332	MRA	KFBS 1. Saipan	Russian	Religious Program	0802	HJK

11690.0	1629	45333	JOR	Radio Jordan. Amman	English	Ancient Culture of Jordan	2402	RL
11705.0	1405	32333	PHL	VOA via Tinang relay	English	International News	1401	HVG
11715.0	2109	35333	IND	All India Radio.Delhi	English	Political Comm..News & Music	0702	HJK
11725.0	1744	35533	NZL	Radio New Zealand Intl..	English	Frequency SCHEDULE	2802	RL
11760.0	1501	32222	INS	Radio Republik Indonesia	Indonesian	International News	2701	HVG
11770.0	0950	44444	MLT	Voice of Mediterranean. Malta	Italian	Dx-Program	1103	DG
11785.0	1920	33332	INS	Voice of Indonesia	Frenah	Talk and Music	2301	JY
11840.0	0300	44444	RUS	Radio Sakhalin. Yuzhno-Sakhlinsk	Russian	Program	0403	HO
11840.0	1902	45444	UKR	Radio Ukraine Intl.. Kharkov	Russian	News	2302	HO
11860.0	2200	12231	INS	Radio Republik Indonesia	Indonesian	International News	2701	HVG
11865.0	2337	34433	CAN	Radio Canada Intl.. Montreal	Spanish	ID.Report on Cuba & Argentina	0702	HJK
11915.0	0530	44444	J	NHK Radio Japan. Tokyo	Italian	News	2202	DG
11965.0	2100	35433	EQA	HCJB.Pifo	German	Program	0702	HJK
11985.0	0419	45533	BEL	Radio Vlaandern Intl..	English	With Post Box 1043 Mailbag	2602	RL
12025.0	1730	45444	IND	All India Radio.Delhi	Malayalam	S/on. Id& Talks by a man	0702	HJK
12045.0	1619	12222	CLN	Radio Japan.NHK via Ekala relay	Japanese	Comments and Music	1101	MAH
12085.0	2115	35433	SYR	Syrian Arab Republic Broadcasting	English	ID and News	0203	IN
13610.0	1927	13322	G	Duetsche Welle	English	Program and Report	1101	MAH
13610.0	2130	44444	SYR	Radio Damascus	English	News & Discussion about Arab	1203	DG
13637.2	1405	25432	VTN	Voice of Vietnam. Hanoi	Vietnamese	Talks	0303	GI
13660.0	2255	45433	NLA	Radio Vlaanderen Intl..	English	P.o.Box 1043 on R Lemke QSL	0402	RL
13730.0	0040	23222	AUT	ORF Radio Austria Intl.. Vienna	Spanish	News on Schaubrunn Palace	2502	DG
13770.0	1716	25433	IND	All India radio.Delhi	Hindi	Folk Songs	0702	HJK
13810.0	1340	25322	D	The Overcomer Ministry via DTK.Julich	English	Religious Program ith Br.Stair	0802	HJK
13855.0	1600	35433	D	WYFR via DTK.Julich	English	Family Bible Study	1202	IN
13860.0	1833	33332	ISL	Rikisutvarpid	Icelandic	News	1702	WS
15084.0	0656	45433	IRN	IRIB.Teheran	Italian	ID and Magazin	1002	HJK
15120.0	0040	44444	CUB	CRI. Beijing via Cuba relay	Spanish	Comments. Music and ID	1001	MAH
15135.0	1927	44444	RWA	Duetsche Welle via Kigali relay	English	Report Program	1101	MAH
15140.0	1401	44333	OMA	Radio Oman. Muscat	English	ID &Vocal Music	1401	HVG
15140.0	1707	44333	IND	All India Radio.Delhi	Russian	ID. Rock & Roll Music??	0702	HJK
15175.0	0650	34333	PAK	Radio Pakistan. Islamabad	Urdu	Songs	1302	ZL
15175.0	0716	35333	NZL	Radio New Zealand	English	Sport Report	1002	HJK
15190.0	1920	22222	PHL	Radyo Pilipinas. Manila	English	Vocals. Talks and ID	2502	RAD
15345.0	2130	33333	ARG	RAE.Buenos Aires	German	Mailbag.News and Music	2502	PB
15355.0	0318	33332	OMA	Radio Oman	English	News	1802	WS
15395.0	1045	32233	UAE	UAE Radio Dubai	English	Talk with Doctor	3101	PB
15415.0	1212	22222	CHN	Radio China Radio Intl..	English	International News	1401	HVG
15455.0	1027	44444	???	Voice of Justice of Cambodia	Khmer	Talks	0303	IN
15575.0	0255	33433	KOR	Radio Korea Intl..	English	Multi Wave Feedback	2602	RL
15715.0	1842	34433	D	Voice of the Dem Path of Ethopian Uni	Amharic	Comments on Somalia	1001	MAH
15820.0	1003	34443	ARG	FM Hit. Beunos Aires	Spanish	International Music	0803	ALS
17500.0	1250	44444	BUL	Radio Bulgaria.Sofia	English	Radio Bulgaria Calling	1612	PB
17495.0	1240	23322	SVK	Radio Prague relay from Rim. Sobota	Russian	Czech ID.Magazine Program	0802	HJK
17520.0	1100	33434	PAK	Radio Pakistan. Islamabad	English	News	1202	ZL
17544.9	1729	43333	ISR	IBA.Jerusalem	English	Program and Sign off	1802	WS
17580.0	2130	45443	ASC	VOA via Ascension Is. relay	English	VOA Communications World	0302	RL
17660.0	1940	22222	EQA	HCJB.Pifo	English	Music	2101	HVG
17665.0	0644	25322	SUI	Swiss Radio Intl.. Berne	German	Program	1002	HJK
17725.0	1733	33332	LBY	Voice of Africa	English	News	1802	WS
17745.0	1250	35444	ROU	Radio Romania Intl..	German	Program	0802	HJK
17810.0	1927	11111	CLN	Duetsche Welle via Sri Lanka relay	English	Program and Report	1101	MAH
17815.0	1405	44444	TUR	Voice of Turkey. Ankara	English	DX Corner & News	1002	PB
17825.0	2131	45333	JAP	Radio Japan NHK. Tokyo	English	Weekend Square	1102	RL
17870.0	1720	44444	AFS	Channel Africa. Meyerton	English	News on Angola	1502	DG
17870.0	1220	45444	TUR	TRT.Ankara	German	S/on with News	0702	HJK
17895.0	1735	44344	MRC	VOA via Briech relay	English	Communications World	0601	PB

QSL CORNER

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Country	Station	QSL	Time	ORG	Remarks	OM
Algeria	RTA Algiers	C	83-1375d	11.715	Also on 15160 Khz	MH
Antigua	Deutsche Welle Relay	C	148 d	17.730	v/s Horst Scholz	MH
Ascension Is	RTE Relay	C	19 d	21.630		MH
Ascension Is	VOA Relay	C	66 d	17.745		MH
Austria	RCI Relay	C	13 d	11.720	v/s Bill Westenhaver	MH
Belarus	Radio Minsk	C	139 d	7210		MH
Belgium	Radio Vlaanderen Int.	C	31 d	21.630		MH
Bolivia	R.Emisora Mallku	PC	24-6-00	4.796.5	Sent 1\$, v/s Edwin Freddy Mamani Machaca	DC
Brazil	Radio Aparecida	C	116 d	9.630	V/s Cassiano A. Macedo	MH
Bulgaria	Radio Bulgaria	C	80-224 d	7.200		MH
Canada	Radio Korea Int Relay	C	66-164 d	11.715	v/s Anna Park	MH
Canada	RTE Relay	C	30 d	13.646		MH
Canada	RTE Relay	C	19 d	13.640		MH
Chile	La Voz Christana	C	52 d	15.375		MH
Chile	La Voz Christiana	C	36 d	11.690		MH
Czech Republic	Radio Prague	C	24 d	11.615		MH
England	RCI Relay	C	15 d	13.650	v/s Bill Westenhaver	MH
England	RTE Relay	C	19 d	9895		MH
Germany	AWR Relay	C	17-40 d	5890	v/s Narine West	MH
Germany	Deutsche Welle	C	46 d	11.945	v/s Horst Scholz	MH
Germany	Deutsche Welle	C	91 d	25.740	v/s Horst Scholz	MH
Guam	AWR Relay	C	22 d	15.195	v/s Narine West, AWR QSL	MH
Indonesia	Kang Guru R. English	n/d	127 d	11.760	v/s Ogi Yutarini, Admin Officer	JY
Indonesia	RRI Denpasar	p/d	36 d	88 mhz	v/s I.Gst.Ngurah Oka	JY
Italy	AFRTS Sigonella	Letter	20-8-00	10940.5	v/s, Michael Foutch	DC
Italy	AWR Relay	C	43-79 d	9610	v/s Narine West	MH
Italy	RAI-Rome	C				MH
Japan	RCI Relay	C	9 d	11.955	v/s Bill Westenhaver	MH
Libya	R.Jamahiriya	C	77 d	17.725		MH
Madagascar	RCI Relay	C	13 d	13640	v/s Bill Westenhaver	MH
Mali	CRI Relay	C	47 d	7.170	v/s Ying Lian	MH
Mali	CRI Relay	C	45 d	15.500		MH
Morocco	VOA Relay	C	55 d	15.240	v/s Jing's Beolin	MH
Netherlands	Radio Netherlands	C	26 d	9.895		MH
Northern Mariana Is.	RFA Relay	L	84 d	15520	v/s The Staff of RFA	MH
Poland	Polskie Radio	C	63 d	9.525		MH
Portugal	R.Diffusao Portugal	C	65 d	21800		MH
Romania	R. Romania Int.	C	56 d	15.390		MH
Romania	Radio Romania Int	C	100 d	17.815	V/s, Laura.	MH
Russia	IBC Relay	L	152d	11.570	v/s K.Pillai, IBC Tamil	MH

Russia	Voice of Vietnam Relay	C	66 d	12070		MH
Singapore	Radio Singapore Int	C	49 d	9.590		MH
Slovakia	AWR Relay	C	23-80 d	13.855	v/s Narine West	MH
Slovakia	AWR Relay	C	43-79 d	13.855	v/s Narine West.	MH
Slovenia	R.Televizija	C	32 d	918 Khz		AKB
Somalia	Radio Hargeisa	C	25-11-00	7.530	send 1\$ and registered mail.	DC
South Africa	AWR Relay	C	42-61 d	6.015	v/s Narine West, QSL's AWR	MH
South Africa	AWR Relay	C	40 d	9.445		MH
South Africa	AWR Relay	C	43-79 d	9745	v/s Narine West	MH
South Africa	AWR Relay	C	23-80 d	9.745	v/s Narine West	MH
South Africa	UN Radio Relay	C	25 d	21.490		MH
Spain	REE	C	32 d	15.160		MH
Sri Lanka	Deutsche Welle Relay	C	135 d	17.810	v/s Horst Scholz	MH
Sweden	Radio Sweden	C	16 d	17.505	v/s, C. ADLER	MH
Syria	Radio Damacus	C	123d	17.830	Director of Radio Damascus	MH
Taiwan	Radio Taipei Relay	C	85 d	9.680		MH
Turkey	Voice of Turkey	C	37 d	6.020		MH
Turkey	Voice of Turkey	C	31 d	9.785		MH
Turkey	Voice of Turkey	C	49 d	15.150		MH
Ukraine	Radio Ukraine Int	C	22 d	9.810		MH
USA	KVOH	C	183 d	9.975		MH
USA	WINB	C	91 d	13570		MH
USA	WSHB	C	95 d	9.430	v/s Candy BIEHM	MH
Uzbekistan	R.Netherlands Relay.	C	33 d	12.070		MH
Vatican City	Vatican Radio	C	98 d	9.650		MH
Vatican City	Vatican Radio	C	12 d	7.250		MH

Thanks to our Reporters:

- AKB = Ashok Kumar Bose, Calcutta, India
- DC = Daniele Canonica, Switzerland. RX JRC NRD-535 HF with 30 m LW antenna
- JY = Juichi Yamada, Japan (Jembatan DX Editor) - Welcome!
- MH = Mark Humenyk of Weston, Ontario. Magnavox D-2935

☆☆

(continued from DX MAGAZINE 2)

Antenna Showdown in Denmark - part 2 by Martin Elbe

Setting up the antenna took me about 40 minutes from unpacking till the antenna was up. Another 20 minutes to run all the cables through the house to the antenna head. All in all less than an hour and I was ready to listen.

AND THE RESULTS?

Now to the results. My main interest is MW from Canada and USA, and there the K9AY was inferior compared with the Beverage-antennas. In about 80% of all cases the Beverage had a louder signal with absolutely no background noise. In 10% of the cases both were on par and the rest the K9AY had the edge. Mostly in cases where european splatter was strong, like KNR Greenland on 650 kHz. But the

hammering signals of CHVO 560, VOXM 590, VOWR 800 or CJYQ 930 were more impressive on the Beverages. S-meter pegged to S9+20 dB is an impressive show! Nothing can top this.

But when I compared the K9AY to the two longwires there were worlds among these antennas. The K9AY had always the edge (valid for SW stations too). Compared to the longwires the K9AY was much more immune against any kind of noise. Even in this quiet surrounding this was an issue. The more in a noise-infested surrounding!

When listening on the 9 kHz European channels the K9AY was very often better than the Beverage antennas. For example I heard HLAZ Korea on the K9AY almost like the proverbial local station. Simply by "switching off" County Sound, and then HLAZ was on top. Nothing on any of the Beverage antennas! Simply because County Sound was audible on any antenna. OK, with a phaser it would have been easy to phase out County Sound, but without one you could forget Korea.

Next example: 1557 kHz, Family Radio from Taiwan. Again, I "switched off" France, and in the remaining mess of Croatian and UK stations they came through. Nothing on a barefoot Beverage antenna. Wilhelm tried it with his SEM phaser, reception then was on par with my K9AY.

OK, in these cases there was no Beverage pointing towards Asia available, only the backbeams of some antennas. But even when the desired station was in the beam of the Beverage it was not always possible to get this station. An example was 1314, with the powerhouse from Norway and Italy sharing frequency. Not a beep from Italy on the 180° Beverage, with the K9AY I could switch back and forth between Italy and Norway. If you're interested, I made a real audio file (91 kB) of this and you can listen for yourself.

No problem at all when you use a phaser, but the pure Beverage didn't make it.

Amazing, but reception during daytime was usually better on the K9AY than on the Beverage-antennas. E.g. R. Bloemendaal, 1116 kHz, came in best on the K9AY at 1340 UTC. Or the UK local "Fresh AM" on 936 kHz was absolutely in the clear on the K9AY, while on every Beverage there were traces of Radio Bremen.

RESULTS ON SW

I had expected that the K9AY would show at least a little bit of directivity on 90 and 60m. But no, it behaved like an omni-directional antenna. In every case better than the longwire, but the Beverage-antennas had better signals. On some frequencies one could separate stations easily with the Beverages. E.g. 11955, where I had Angola in French and a Chinese speaking station. Switching to the 180° antenna left nothing from the Chinese, only Angola was audible. Another example was 11925 kHz, R. Bandeirantes and a Chinese.

The K9AY brought good and strong signals, very clean. But compared to the appropriate Beverage it came only out as second winner. Only on very high frequencies the K9AY had the edge, WJFP on 25870 kHz was audible only the loop.

In general, the K9AY turned out to be an excellent performer, able to beat the Beverages in some cases. But: Who of us has the space to erect 16 Beverages? But many of us will have a piece of garden of 8x8 meters! If you have a garden, you should really consider this antenna!

73 Martin

☆☆

American television audiences can now receive prime time and sports HDTV programmes based on an ITU standard

Geneva - CBS successfully completed a four-day demonstration of its high-definition television (HDTV) prime time and sports programmes at the ITU headquarters in Geneva, replicating the broadcasts that it has

been airing to American audiences every week this year. The demonstration took place from 14 to 19 September 2000 during a meeting of Study Group 6 of ITU's Radiocommunication Sector (ITU-R) and its various working parties(see Footnote 1 below).

"In a world where most of the population view television, the demand for more programmes is insatiable, and the global exchange of programmes is an ever more pressing need. We can now meet that need thanks to the world's only digital HDTV production standard: the ITU-R Recommendation BT.709-3", said Dr. Joseph A. Flaherty, Senior Vice-President for Technology at CBS Television and Vice-Chairman of ITU-R Study Group 6.

This ITU standard is based on a high definition "Common Image Format" (HD-CIF) of 1920 pixels-per-line at an aspect ratio of 16:9 with 1080 lines-per-picture progressively scanned at 24, 25, and 30 frames-per-second and both interlaced and progressively scanned at 50, and 60 pictures-per-second.

Since October 1999, there has been a massive launch of digital HDTV programming throughout the United States. Virtually all these HDTV programmes are using the Common Image Format of ITU-R Recommendation BT. 709-3. Apart from CBS, a number of major US broadcasters are understood to be using the CIF 1920/1080 HDTV format and more than 1000 US television stations have applied for a licence for digital HDTV transmission.

Elsewhere, the Asia-Pacific Broadcasting Union (ABU) has adopted the 1080 CIF format as its unique HDTV programme production and international exchange standard for use throughout the Asia-Pacific region. With Australia set to launch the digital HDTV service in 2002, along with Japan's transition to an all-digital HDTV service at the same time, high-definition television is poised to become a permanent fixture in the television landscape of this millennium.

In the past, fragmented regional standards and doubts about the potential success of HDTV prevented a successful market introduction. Many people now believe that this new standard will finally kick-start the long-heralded age of HDTV. For Dr. Flaherty, "wide screen high definition is not just pretty pictures for today's small screen television sets. Rather, it is a whole new digital platform that will support the larger and vastly improved displays now in commercial development". Apart from entertainment, wide-screen HDTV will also benefit educational purposes, most notably in distance learning for developing countries.

In particular, the 24 frame progressive version of the Common Image Format of ITU-R Recommendation BT. 709-3 is making it possible for the electronic production of film-style programmes for both television and cinema. According to Dr. Flaherty, much of the second episode of George Lucas's film, Star Wars, is being produced electronically with the camera photography using the 16:9 wide screen Common Image Format of 1920/1080 at 24 frames-per-second. Other current electronic productions include 21 one-hour episodes of Pierre Lepinois's production of the Secret Adventures of Jules Verne.

"The 1920/1080/16:9 Common Image Format is rapidly spreading worldwide as the unarguable HDTV programme production and international exchange format.. We at CBS use this ITU Common Image Format exclusively for our 15 hours-per-week of prime time high-definition broadcasts. Today, more than 128 hours-per-week of HDTV programming is being provided to American television audiences by broadcasters, cable operators, and direct-to-home satellite operators", Dr. Flaherty added.

Programmes of international interest, especially important sporting events are being produced in HDTV and are generating an enthusiastic reaction from viewers. This month, CBS covered the US Open Tennis Championship in HDTV, and earlier this year presented The Masters Golf Championship, the "Final Four" college basketball tournament, and US National Football League games in HDTV.

Commenting on the CBS demonstration, Alfredo Magenta, Chairman of ITU-R Study Group 6 said: "It is gratifying to see this unique HDTV production standard in action, which reconfirms ITU's role as the worldwide standards-setting body. The ultimate beneficiaries will be the viewers around the world, who can now enjoy watching crystal-clear pictures both on cinema and television screens".

Mr. Magenta went on to say that the CBS demonstration also confirmed the success of ITU-R studies on satellite and terrestrial broadcasting from end-to-end, including vision, sound, multimedia and data services. "Between now and 2003, we will be studying those aspects that are related to production and radiocommunication, including the international exchange of programmes and the performance of the overall delivery chain to the general public", Mr. Magenta declared.

Dr. Flaherty says that a large quantity of programming will be required in order to reach a critical mass to motivate consumer sales. He estimates that over 500 000 US television households will have switched to wide screen digital television and HDTV by year-end 2000. The 50 per cent market penetration is not expected until after 2003. Receiver sales are therefore seen as the final step in the transition to digital television and HDTV. (ITU)

☆☆

US State Abbreviations

<i>State/Possession</i>	<i>Abbreviation</i>		
		NEW JERSEY	NJ
		NEW MEXICO	NM
ALABAMA	AL	NEW YORK	NY
ALASKA	AK	NORTH CAROLINA	NC
AMERICAN SAMOA	AS	NORTH DAKOTA	ND
ARIZONA	AZ	NORTHERN MARIANA ISLANDS	MP
ARKANSAS	AR	OHIO	OH
CALIFORNIA	CA	OKLAHOMA	OK
COLORADO	CO	OREGON	OR
CONNECTICUT	CT	PALAU	PW
DELAWARE	DE	PENNSYLVANIA	PA
DISTRICT OF COLUMBIA	DC	PUERTO RICO	PR
FEDERATED STATES OF MICRONESIA	FM	RHODE ISLAND	RI
FLORIDA	FL	SOUTH CAROLINA	SC
GEORGIA	GA	SOUTH DAKOTA	SD
GUAM	GU	TENNESSEE	TN
HAWAII	HI	TEXAS	TX
IDAHO	ID	UTAH	UT
ILLINOIS	IL	VERMONT	VT
INDIANA	IN	VIRGIN ISLANDS	VI
IOWA	IA	VIRGINIA	VA
KANSAS	KS	WASHINGTON	WA
KENTUCKY	KY	WEST VIRGINIA	WV
LOUISIANA	LA	WISCONSIN	WI
MAINE	ME	WYOMING	WY
MARSHALL ISLANDS	MH		
MARYLAND	MD		
MASSACHUSETTS	MA	<i>Military "State"</i>	<i>Abbreviation</i>
MICHIGAN	MI		
MINNESOTA	MN	Armed Forces Africa	AE
MISSISSIPPI	MS	Armed Forces Americas	
MISSOURI	MO	(except Canada)	AA
MONTANA	MT	Armed Forces Canada	AE
NEBRASKA	NE	Armed Forces Europe	AE
NEVADA	NV	Armed Forces Middle East	AE
NEW HAMPSHIRE	NH	Armed Forces Pacific	AP

SW Reception Propagation of Radio New Zealand International - RNZI

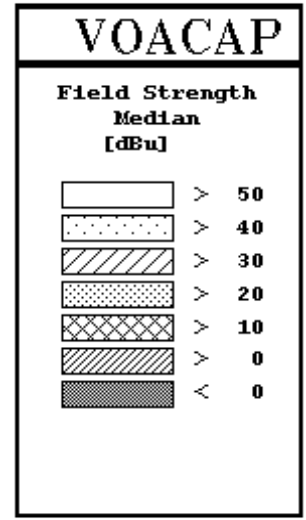
On the website of Radio New Zealand I found two interesting details: first, RNZI will expand their transmission times in the A01 season. You will find the new schedule in the news section of this issue. Second, most transmissions are listed with a beam of 0 degrees - but RNZI doesn't use one antenna, they use two antennas at same time: "We operate two high frequency and two low band antennae manufactured by T.C.I. of California. One of each beams 35 degrees and one of each beams 325 degrees". So how RNZI manages the 0 degree beam? Here is the answer: "The 35 degree beam covers the South Eastern Pacific and North America. The 325 degree beam covers the South Western Pacific, NE Australia, Japan, China and Europe. With the antennae combined, virtually all the Pacific Basin is covered". Do you think, it is impossible to get a propagation map in this case? With the VOAAREA computer program you can combine different maps. So a first map was calculated with the HR 2/4/0.5 curtain antenna and 325 degree beam and a second map with HR 2/2/1 dipole curtain antenna. The transmitter ("The transmitter was manu-factured by Thompson CSF of France and installed in 1990. It has an ouput power of 100kW and is equipped with three transmitting tubes; 2 x TH581 with hypervapotron cooling and one TH581 with air cooling") power of 100 kW splits to the two antennas. Then both maps are combined by adding the dbU values in the VOAAREA program. The final result you will see at the diagram below: coverage of the transmission at 2100 UTC on 17675 kHz with both antennas simultaneously in use on the same frequency.

(Source RNZI Website / JKB - j.kubiak@gmx.net)

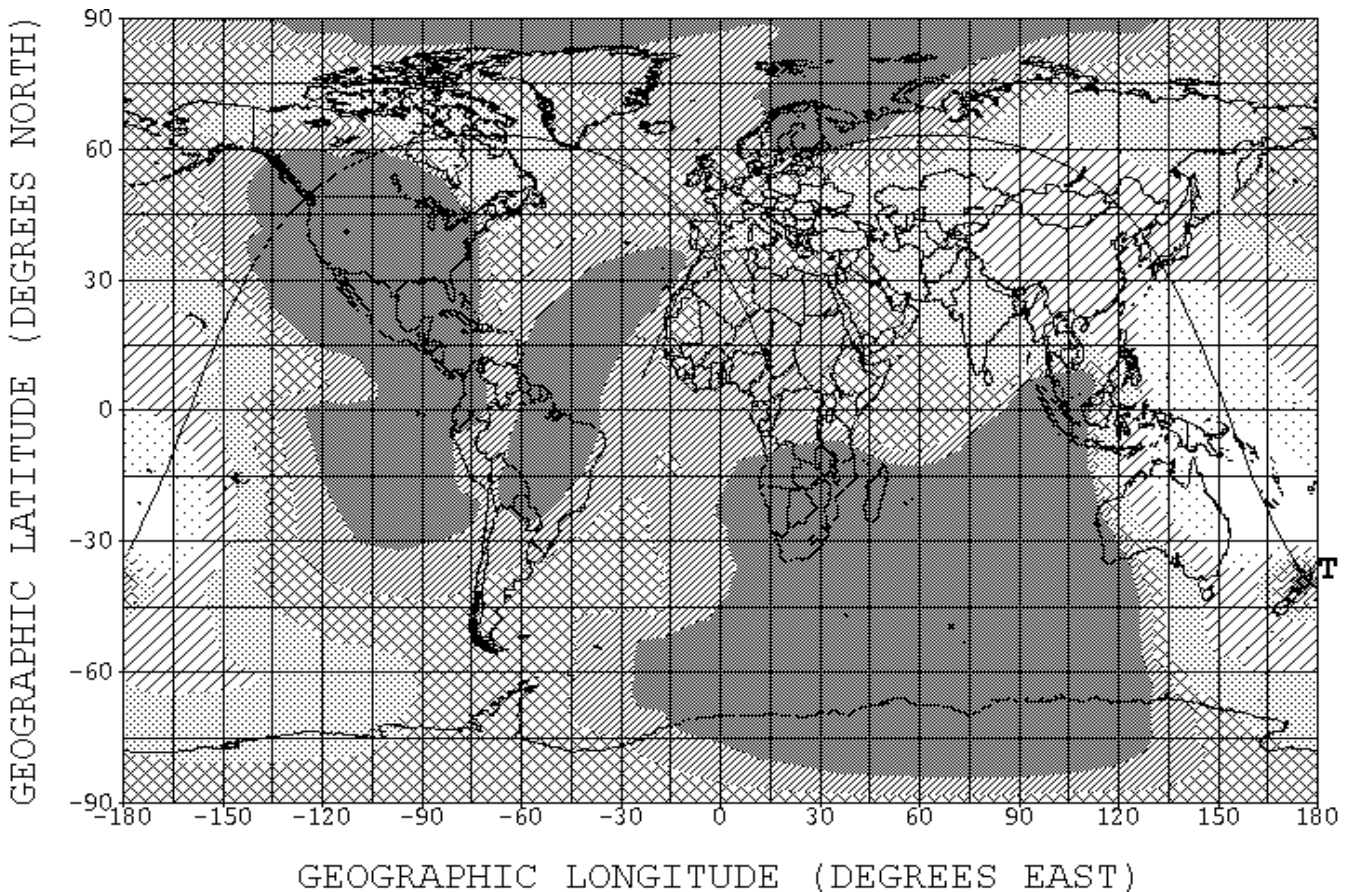
Data Input to VOAAREA (<http://elbert.its.bldrdoc.gov/hf.html>):

- Month: April 2001.
- Sunspot number: SSN = 108
- (<http://www.ips.gov.au/papers/richard/ssnpred.html>).
- Transmitter power: 100 kW splitting to two antenna.
- Transmitter antenna: HR 2/4/0.5 and HR 2/2/1 simultaneously.
- Receiver telescopic antenna: No beam. Gain 0 db.
- World map: Showing median field strength dbU at receiver location.

Version 98.0714W



CCIR coefficients



Map #1: RNZI transmitting at 2100 UTC with two antennas simultaneously on 17675 kHz.