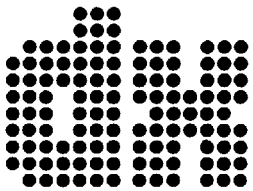


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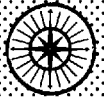
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magazine



WORLD WIDE DX CLUB



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

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 2000

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DEADLINE (Redaktionsschluß) for
DX MAGAZINE No. 5 is on April
20th, 2000, and for DX MAGA-
ZINE No. 6 on May 18th, 2000.



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DX MAGAZINE No. 3

Vol. XXXV

March 2000

Hello again,

Welcome to another issue of our DX MAGAZINE. I'm very glad to inform you that OM Eberhard Ahl has kindly offered to compile and write our LOGBOOK for the next couple of months. Later in this DX MAGAZINE you will find his first LOGBOOK. Nevertheless, we still need a new **permanent** LOGBOOK EDITOR (preferably with a personal computer and e-mail access). If you happen to be interested to write our Logbook in the future, please do not hesitate to write to me.

And now over to our usual news from outside the club: The **Sixth National Meeting of Mexican DXers** will take place August 4-6, 2000 in the city of Oaxaca (pronounced wa-HA-ka), Mexico. All shortwave listeners, DXers and representatives of international radio stations from throughout the world are invited to attend this meeting, where listeners and broadcasters gather from all parts of Mexico, Latin America, North America, Europe and beyond. For more details, contact Jeff White at <wrmi@compuserve.com>. If you would like to receive the tentative agenda and other information as it becomes available, just send an e-mail message to Jeff White. There is no registration fee for the event, but the organizers would appreciate it if you could let them know if you intend to take part, in order to plan adequate space and transportation.

Venezuela QSL Help Service is a new service sponsored by Winter Monges from Venezuela, in order to help DXers around the world that have been trying for many years to obtain a verification from any venezuelan station and did not have success. "In my country does not exist knowledge about answer the letters that DXers send to the radio stations, do not know what QSL is and which is the purpose to answer. They get to thinks that if answer the letter can be use for fraude purpose or that it is not necessary because they will lose their money. I have been DXer for 13 years and I have many verification, pennants and stickers from foreign stations but I have very few from Venezuela, so I decided to start this year a project to visit all AM and SW stations in Venezuela with the goal to obtain their verification for my personal collection. That is way, many DXers have send me old and new reports and I have almost 100 at the moment. I am planning when I have to visit or send a fax the station to have many reports in order they pay attention to me. So the better way to help me is to send me your reception report. This is the beginning of Venezuelan Radio Tour." More information can also be found at: <<http://members.tripod.com/~wintermonges/index.html>>. How to send your old and new receptions reports: *Mail*: Winter Monges, P.O.Box. 1.116, Barquisimeto 3001-A, Lara, Venezuela; *E-mail*: <venezuelanqslhelp@yahoo.com>.

(cf. DXM 2, page 4) **GRAL - Gruppo Radioascolto Liguria** has started an Internet home page at: <<http://utenti.tripod.it/gral>>. You can find many links about our hobby, like: Broadcasting stations from all over the world, Radio receiver on line, Utility and HAM, DX Club from the world, Pirates and Clandestines, QSL galleries, Propagation or Search Engines.

Seit Februar hat die **Arbeitsgemeinschaft DX (AGDX)** eine neue Internet-Adresse (URL) für ihre Web-Seiten: <<http://www.swl.net/agdx/>>. Die Inhalte sind zum größten Teil auf neuen Stand gebracht, ein paar wenige neue Angebote sind auch dabei. Das Design ist weitgehend von früher übernommen. Die alte Web-Adresse besteht zwar noch, wird aber schließlich auslaufen.

Im März erschien im **Siebel Verlag**, Auf dem Steinbüchel 6, D-53340 Meckenheim, die völlig

neubearbeitete und erweiterte 3. Ausgabe 2000 des Titels **Flugfunk**. Der Autor Michael Marten erläutert in diesem Buch sehr anschaulich anhand eines praktischen Beispiels, wie der Flugverkehr im Cockpit eines Flugzeugs abläuft. Weiterhin finden sich umfangreiche Listen der deutschen VHF/UHF-Frequenzen, sowie der weltweiten KW-Frequenzen für Flugfunk und Volmet. Ausführliche Kapitel über die Geschichte des Flugfunks, über Funknavigationsdienste, Luftverkehr und Flugsicherung in Deutschland, sowie zahlreiche nützliche Tabellen und Übersichten runden das Buch ab. Ein sehr empfehlenswertes Buch für alle, die sich für Luftfahrt interessieren und diese im Funk miterleben wollen. 384 Seiten mit vielen Abbildungen, Preis: DM 34,80, ISBN 3-89632-029-7, erhältlich direkt vom Verlag oder im Buchhandel.

Vom **EAWRC** ist jetzt das Sonderheft 21 **Rundfunkstationen in Deutschland 2000** erhältlich. Neben der kompletten Auflistung aller genutzten Frequenzen der öffentlich-rechtlichen, kommerziellen und nicht-kommerziellen Anbieter sind auch alle ausländischen Stationen in der Publikation enthalten, die von Sendeanlagen in Deutschland ihre Programme ausstrahlen. Außerdem enthält sie alle Stationsadressen, Adressen der Regionalstudios und Korrespondentenbüros, Telefon- und Fax-Nummern der Stationen und Außenstellen, Internet, alle Senderstandorte, Angabe der jeweiligen Sendeleistung, sowie Adressen, Telefon- und Fax-Nummern der Landesmedienanstalten. Das Heft ist erhältlich incl. Versand für DM 12,00 (100 öS) per Eurocheck (in DM oder 6,20 Euro) oder in bar von: EAWRC, c/o Adolf Schwegeler, Bahnhofstr. 56, D-50374 Erftstadt.

Schließlich schon eine Vorankündigung des **Jubiläums-DX-CAMPs 2000** des **SWLCS**: Dieses findet in diesem Jahr vom 4. - 6. August statt. Nähere Informationen liegen zur Zeit noch nicht vor, wir werden Sie jedoch weiter informieren, sobald wir nähere Einzelheiten von OM Peter Hell erhalten.

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

ARGENTINA: Next February *Radiodifusion Argentina Al Exterior* RAE will celebrate the 42nd Anniversary, may be a probably new Special QSL card. Please write always to the DX-program editor to the RAE, Casilla 555, 1000-Buenos Aires-ARG, to obtain this special QSL card. (GIB via BC-DX #450, Jan 26)

ARMENIA: New schedule for *Voice of Armenia* in English: 0940-1000 Sunday on 15240; 1850-1900 daily on 234 and 1395 kHz; 2055-2115 Mon-Sat on 4810, 9965. (Edwin Southwell via DX LISTENING DIGEST #00-08, 19 January 2000)

BANGLADESH: *Bangladesh Betar* in various languages noted all on new frequency 9558.0 demodulated audio (ex 9550.0) in parallel to 7184.0. 1230-1300 En, 1315-1345 Nepali, 1400-1430 Urdu, 1515-1545 Hindi, 1600-1630 Ar, 1630-1730 Bangla, 1745-1815 Vof Islam, 1815-1900 En, 1915-2000 Bangla. (Observer #67 via WB, March 1st, 2000)

BRAZIL: *Rádio Globo*, São Paulo, has reactivated its 9585 kHz, 31 meter band, outlet after several months of silence. The station was noted at 0911-0938 on February 26, with its morning entertainment show "Rádio Globo - Alo, Bom Dia" ID was announced as "Em sua radio ... AM e FM de Sao Paulo em primeir lugar ... Rádio Globo". At 0927 an institutional announcement of "Association of Brazilian Broadcasters of Radio and Television" and "Association of Broadcasters in Sao Paulo" was heard. (TIN - Nordic Shortwave Center via HJK, 9 Mar 00).

CENTRAL AFRICAN REPUBLIC: *Radio MINURCA* was broadcasting from the Central African Republic on shortwave (and FM in the Bangui area). DX'ers around the world were able to hear the Central African Republic on shortwave, thanks to the transmissions of Radio Minurca, operated by the U.N. Mission for South Africa. Radio Minurca ceased operating as the U.N. operation in the Central African Republic winds down. The Radio Minurca team hopes to set up another U.N. station in Bangui, the country's capital. (Comm. 5 February 2000 via JKB)

CHINA (Peoples Rep.) / GERMANY: German service bureau of CRI changed their location in Germany from Bonn to the capital Berlin. The new address for listeners of German language programs is now: Radio China International, Guertelstr. 32b, 10247 Berlin, Germany. Fax no. +49-30-29668997 and email deyubu@hotmail.com, but addresses in China at headquarter of German program are still valid (Fax +86-10-68892053, email ger@box.cri.com.cn). CRI in German at 1800-2000 on 5970 and 7225. (CRI printed info via JKB, 4 Mar 00)

CONGO: 6713 USB *Radio Bakavu* was off the air for nearly a year and has been heard again at 1545 in Fr then at 1604 in Swahili with news and reports followed with African Songs until 1633 then back in Fr with ID and news bulletin, off at 1658. (Mahendra Vaghjee via EDXP E-GROUP via M. Bethge, Feb 26 - 00)

DENMARK: A00 schedule of *Radio Denmark* in the Danish language via facilities of Radio Norway, March 26 - October 29, 2000 (1st edition, Febr. 22).

UTC	Target (primary target in brackets)	kHz	Tx	Beam
0830-0855	Australia, Europe (south west), Canary Islands, South America	18910	S	235
	Middle East (east)	18950	K	110
0930-0955	Australia, Europe (south west), Canary Islands, South America	18910	S	235
	Far East	21755	K	40
1030-1055	Europe, Mediterranean, Canary Islands	13800	S	180
	South America, Canary Islands, Africa (west)	21755	S	235
1130-1155	Europe, Mediterranean, Canary Islands	13800	S	180
	North America (east), Caribbean	15735	S	280
1230-1255	North America (east + central), Greenland	15735	S	300
	Far East	17535	K	40
	North America (east), Caribbean	18950	S	280
	South East Asia, Australia (west), Russia	21755	K	80
1330-1355	Europe	9590	S	180
	North America (east + central), Greenland	15735	S	300
	Far East	17535	K	40
	South East Asia, Australia (west), Russia	21755	K	80
1430-1455	North America (west), Greenland	17505	S	315
	South Asia (India), Middle East (north), Russia	18950	K	95
1530-1555	Russia, Europe (south east), Middle East (north), South Asia (India)	13800	K	95
	Middle East (east), South East Asia(India)	15735	K	110
	North America (west), Greenland	17505	S	315
1630-1655	Europe	12080	S	180
	Russia, Europe (south east), Middle East (north), South Asia	13800	K	95
	Europe (south east), Middle East (west), Africa (east)	21730	K	145
	North America (east), Caribbean	21755	S	280
1730-1755	Europe	12080	S	180
	Middle East (west)	15735	K	120
	North America (east + central), Greenland	17505	S	300
	Europe (south east), Middle East (west),			

	Africa (east)	21730	K 145
1830-1855	Europe (north), Scandinavia (south)	243/1062	Ka ND
	Europe	7485	S 180
	New Zealand	13800	K 35
	Africa (west, central and south)	13810	K 180
1930-1955	Europe, Canary Islands	7485	S 195
	Africa (west, central and south)	13810	K 180
	New Zealand	15705	K 35
	North America (west), Greenland	17505	S 315
2030-2055	Europe, Canary Islands	7485	S 195
	Australia (east)	9985	K 65
2130-2155	Australia (east)	11610	K 65
2230-2255	South America, Canary Islands	11625	S 235
	Far East	15735	K 35
2330-2355	South East Asia, Australia (west)	9935	K 80
	South America	11625	S 235
	North America (east), Caribbean, South America (north west)	13805	S 280
	Far East	15735	K 35
0030-0055	North America (east + central), Greenland	11635	S 300
	North America (east), Caribbean, South America (north west)	13800	S 280
	South East Asia, Australia (west)	13805	K 80
0130-0155	North America (east + central), Greenland	9985	S 300
	North America (east), Caribbean, South America (north west)	11635	S 280
	South Asia (India)	13800	K 95
0230-0255	South Asia (India)	13800	K 95
0330-0355	Russia, Europe (south east), Middle East (north)	7465	K 95
	North America (west), Greenland	11635	S 315
	Europe (south east), Africa (east), Middle East (west)	13800	K 145
0430-0455	Europe	7465	S 180
	Russia, Europe (south east), Middle East (east)	9475	K 110
	North America (west), Greenland	11635	S 315
	Europe (south east), Africa (east), Middle East (west)	13800	K 145
0530-0555	Europe	7465	S 180
	Europe (south east), Middle East (west)	11615	K 120
	Europe (south), Africa	13800	K 165
0630-0655	Europe	7180	K 165
	Europe (south west), Canary Islands, Africa (north west), New Zealand	9590	S 195
	Europe (south west), Canary Islands, Africa (north west), New Zealand	13800	S 220
	Europe (south), Africa, New Zealand	15705	K 165
0730-0755	Europe, Canary Islands	7180	K 165
	Europe, Canary Islands	9590	S 180
	Africa (west), Canary Islands, New Zealand	15705	S 220

Address: Radio Danmark, Radioavisen, Rosenorns Allé 22, DK-1999 Frederiksberg C. RD office: +45 35 20 57 84 (then press '4') - Telefax: +45 35 20 57 81.

e-mail: schedule, program matters: rdk@dr.dk - technical, reports: rdktek@dr.dk

WWW: <http://www.dr.dk/rdk> - including RealAudio of our broadcasts.

The daily live transmissions in Danish are aired at 16.30 and at 08.30 utc. Transmissions in-between are repeats.

The letterbox program, "Tune In" is heard on the last Saturday and Sunday of the month from 16.37 UT, the last broadcast being on Sunday at 15.37. 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. Kvitsoy covers the Eastern Globe, while Sveio covers the Western Globe.

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

Radio Denmark replies complete reports by a QSL-card. Although not necessary, return postage is appreciated (1 IRC or 1 US dollar).

(Erik Koie via HJK & WB, Mar 2000)

GERMANY: Telekom Juelich, first version of schedule A00, valid from 26.03.2000:

frequency	start	stop	ciraf	ant	azi	type	day	from	to	bro
13720	0557	0659	18	308	020	216	1234567	010700	310800	RNW
7285	0800	0830	27,28	402	ND	976	7	170600	020900	INF
11735	1830	1859	52,53,57	306	160	216	5	260300	291000	RRP
17750	1245	1345	41,49	109	080	218	1234567	260300	291000	DVB
9855	0000	0100	8,9	119	295	216	1234567	260300	291000	LRT
11900	1500	1559	28,29	202	060	218	4	260300	290300	VOO
5985	0900	0959	27,28	104	115	206	1	260300	291000	CHW
11705	2200	2215	37,38	405	175	141	1246	260300	291000	RFL
13740	0900	0959	55,58,59	105	265	216	1	260300	291000	GNW
5995	0900	0959	27,28	401	ND	926	7	260300	291000	GNW
5985	0900	0959	27,28	212	305	217	7	260300	291000	GNW
15330	1300	1359	41,49	208	090	218	1	260300	291000	GNW
11795	1700	1759	39,40	105	115	216	7	260300	291000	GNW
15105	1600	1659	38,47,48,52,53,57	302	160	216	7	260300	291000	GNW
9435	0100	0129	41	110	090	217	1	260300	291000	UNL
6015	1630	1659	27,28	401	ND	926	234	260300	291000	UNL
6015	1630	1659	27,28	401	ND	926	56	010400	291000	UNL
15105	1600	1629	47,48,52,53	302	160	216	1	260300	291000	UNL
6015	1830	1859	27,37N	405	215	141	7	260300	291000	UNL
11840	1800	1829	46,47,48	306	160	216	1	260300	291000	UNL
7295	2200	2259	18	404	020	141	1234567	260300	291000	TOM
13810	0600	0659	56,59,60	206	230	218	1234567	260300	291000	TOM
13810	0800	0859	55,59	206	250	218	1234567	260300	291000	TOM
5850	1100	1659	27	406	290	106	1234567	260300	291000	TOM
13810	1300	1459	19,20,29,30	202	060	218	1234567	260300	291000	TOM
13810	1600	1659	38,39	106	115	217	1234567	260300	291000	TOM
9490	0300	0459	47,48,52,53	306	160	216	23456	260300	291000	RTB
9490	0430	0459	47,48,52,53	306	160	216	17	260300	291000	RTB
17580	0500	0712	47,48,52,53	303	160	216	23456	260300	291000	RTB
17580	0500	0959	47,48,52,53	303	160	216	7	260300	291000	RTB
17580	0500	0806	47,48,52,53	303	160	216	1	260300	291000	RTB
21565	1000	1206	47,48,52,53	301	160	216	23456	260300	291000	RTB
21565	1000	1117	47,48,52,53	301	160	216	7	260300	291000	RTB
21565	1100	1117	47,48,52,53	301	160	216	1	260300	291000	RTB
17570	1500	1712	47,48,52,53	303	160	216	123456	260300	291000	RTB
17570	1600	1712	47,48,52,53	303	160	216	7	260300	291000	RTB
17570	1712	1830	47,48,52,53	303	160	216	1234567	100600	020700	RTB
15755	1830	2130	47,48,52,53	303	160	216	1234567	100600	020700	RTB
5975	0700	1059	27,28	406	290	106	1234567	260300	291000	VOH
15715	1325	1629	40,41	110	090	217	1234567	260300	291000	VOH
17550	1325	1629	46	307	200	216	1234567	260300	291000	VOH
9925	2300	0059	11-16	202	230	218	1234567	260300	291000	HIC
9925	0100	0259	6-10	112	300	216	1234567	260300	291000	HIC
9925	0300	0459	2-10	105	325	216	1234567	260300	291000	HIC
9470	0500	0659	55,59,60	202	230	218	1234567	260300	291000	HIC
13820	0700	0859	58,59,60	208	270	218	1234567	260300	291000	HIC
11805	2000	2059	38,39,52,53,57	306	160	216	1234567	260300	291000	HIC
6140	0600	1900	27,28	111	120	216	1234567	260300	291000	DWL
9650	1300	1430	28S	105	130	216	1234567	260300	291000	DWL
5965	1857	1956	27,28	401	ND	926	1234567	260300	291000	DWL (VRT)
17735	1727	1856	47,52,53	301	160	216	1234567	260300	291000	DWL (VRT)
6045	1027	1225	18S,27,28NW	401	ND	926	1234567	260300	291000	DWL (RNW)
13710	1727	1856	28,38,39	103	115	217	1234567	260300	291000	VRT
5840	0300	0359	28,29,38,39	111	120	216	1234567	260300	291000	AWR
11970	0800	0859	28,38	104	145	206	17	260300	291000	AWR
15620	0700	0929	37,46	308	200	216	1234567	260300	291000	AWR

9875	1600 1759 28,29,38,39	104 115 206	1234567	260300 291000	AWR	
17660	1800 1859 29,30,39,40	109 100 218	135	260300 291000	AWR	
15560	2000 2059 37,38,46	308 200 216	1234567	260300 291000	AWR	
9475	2100 2329 37,38,46	406 200 106	1234567	260300 291000	AWR	
15560	2130 2159 37,38,46	308 200 216	1234567	260300 291000	AWR	
9610	0355 0630 28SE,29	104 115 206	1234567	260300 291000	SRI	
17685	0555 0815 37S,38W,46	307 200 216	1234567	260300 291000	SRI	
15545	0555 0815 37S,38	302 160 216	1234567	260300 291000	SRI	
15315	0955 1230 37N	308 210 216	1234567	260300 291000	SRI	
15220	1625 1815 28,38,39	102 115 217	1234567	260300 291000	SRI	
17640	1625 1815 38,39	107 115 217	1234567	260300 291000	SRI	
15220	1825 2130 47,52,53,57	302 160 216	1234567	260300 291000	SRI	
17580	1825 2130 37S,38W,46	307 200 216	1234567	260300 291000	SRI	
6110	1725 1930 18,28,29W	406 290 106	1234567	260300 291000	SRI	
13770	1825 2130 38,48,53	106 145 217	1234567	260300 291000	SRI	SOT+
9885	0025 0545 8,10,11,12N	102 295 217	1234567	260300 291000	SRI	SOT+
21750	0555 0815 47,52,53,57	301 160 216	1234567	260300 291000	SRI	SOT+
13685	0825 1030 55,58-60	202 240 218	1234567	260300 291000	SRI	SOT+
21770	1055 1330 29,30,40,41,49,50,54	207 080 218	1234567	260300 291000	SRI	SOT+
17670	1355 1615 29,30,40,41	207 080 218	1234567	260300 291000	SRI	SOT+
21720	1625 1815 38,39,48	106 145 217	1234567	260300 291000	SRI	SOT+
9885	2155 2400 13-16	112 240 216	1234567	260300 291000	SRI	SOT+
6045	0645 0850 27,28	401 ND 926	7	260300 291000	TWR	
6045	0645 0820 27,28	401 ND 926	6	260300 291000	TWR	
6045	0655 0820 27,28	401 ND 926	12345	260300 291000	TWR	
9490	1230 1245 28	104 130 206	12345	260300 291000	TWR	
9490	1230 1300 28	104 130 206	67	260300 291000	TWR	
7260	1600 1645 28	211 110 216	7	260300 291000	TWR	
7260	1630 1645 28	211 110 216	16	260300 291000	TWR	

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 DLR DeutschlandRadio
 GNW Good News World Radio
 HIC Hrvraska Informativini Centar
 LRT Radio Vilnius Lithuania
 RNW Radio Netherlands World Service
 RRP Radio Reveil Paroles de Vie
 RTB Radio Television Belge de la communaute Francaise
 SRI Swiss Radio International
 TOM The Overcomer Broadcast
 TWR Trans World Radio
 UNL Universal Life
 VOH High Adventure Ministries - The Voice of Hope (ex HAM)
 VOO Voix de L' Orthodoxie
 VRT Vlaamse Radio en Televisie (ex RVI)
 RFL Reformed Faith and Life
 INF Info Radio, NL (Ralf Weyl - German Telecom AG via WWDXC HQ, 29.02.2000)

GREECE: Updated schedule on *Voice of Greece* to Europe.

1800-1830 Fr, 1830-1850 Sp on 9375, 12105;
 1900-1930 En, 1930-2000 Ge on 7475, 9375;
 1800-2200 Greek on new frequency 9420 (ex 9425) in parallel 17565, 17705.
 (Observer #67 via WB, March 1st, 2000)

The *Voice of Greece* now as follows on Kavalla mediumwave 792:

1500-1530 Ru. 1530-1600 Bulg. 1600-1630 Romanian. 1630-1700 Se. 1700-1730 Alb. 1730-1800 Pol.

On mediumwave 1386:

1500-1800 as on 792. 1800-1830 Fr. 1830-1900 Sp. 1900-1930 En. 1930-2000 Ge.

The new schedule of the Voice of Greece to Europe, 1500-2000 all progrs on MW 1386 & FM's 90.6 & 93.6 (both Athens).

1500-1800 792, 1386, 7475, 9375:

1500 in Ru. 1530 Bulg. 1600 Rom. 1630 Se. 1700 Alb. 1730 Pol.

1800-1900 1386, 9375, 12105:

1800 Fr. 1830 Sp.

1900-2000 1386, 7475, 9375:

1900 En, 1930 Ge.

From 2000 in Greek.

(PanIview, ABCDX Rumen Pankov all via BC-DX #454, 28 Feb 2000)

INDONESIA: Frequency change of *Voice of Indonesia* to Europe, now 1730-2100 back on 15150 (ex 11785) in Sp, Ge, Fr, En to Eu. (Observer #67 via WB, March 1st, 2000)

KENYA: *KBC* has cut right back on its SW usage. The Swahili (National) and English (General) schedules are no longer relayed on SW. The only SW activity is on 4915 (relay of the Central Sce) and 4935 (relay of the EaSce). Some Swahili may be heard on both these sces as they relay some Nat Sce bulletins. Note that 4935 is silent on Sat and Suns as the EaSce is Mon-Fri only. However, the CentrSce is now Mon-Sat rather than Mon-Fri. (Chris Greenway in DX LISTENING DIGEST via BC-DX #456, Mar 5)

KOREA (SOUTH): *Radio Korea International - RKI* plans to upgrade its "antenna facilities" for its services to Australia and South East Asia during 2000. On Feb 23/24/25, special monitoring has been asked of people located in the above regions, to assess signal levels and interference effects. (BP, 21 Feb 00)

KOREA (North & South): The propaganda battle on Korean peninsula. A survey of *Korean clandestine stations*.

Radio "ECHO OF HOPE" (from KOR to KRE). Since 1973. Ex radio "Voice of Reunification". Of organization "Korean Living Abroad". Jammed. Unknown mailing address. ID: "Shimang e mei ari pangsong imnida".

3985 1100-11800 & 2000-2300

6003 1100-1800 & irr. 2000-2300

6348 0300-0700. Monitored in BUL on 3985.

Radio "Voice of the People" (from KOR to KRE) Since 1985. Unknown mailing address. ID: "Yogi, nun Pyongyang-eso ponadurinun i minuisori-bang imnida" is the Voice of the People broadcasting from Pyongyang. Jammed.

3881 & 3912 0900-2100

6518 & 6600 0300-0600. Monitored in BUL on 3912.

For both stations: jammer type is "siren".

Radio "Voice of National Salvation" (from KRE to KOR). Since 1985. Ex named "Voice of the Revolutionary Party for Reunification", then "R.S.S.K.D.N.L. for Liberation". ID: "Kobugei Sori Pang song Imnida". News in English 0030-0100. Mailing address: Kankoku Minzoku Minshu Tenzen, Amatsu Bld., 2-1 Hirakawa 1-chome, Chiyda-Ku, Tokyo, Japan.

3480, 4450, 4557, 1053: 2000-0100, 0300-0700, & 1000-1700.

4120: 1000-1400. 6012: 1000-1400. Monitored in BUL on 4120 & 4450.

Numbers Stations (from KRE to KOR). Starting with songs then voice 5-digit figures. Named to the titles of the songs.

"*Red Flag Song*" station: 0600-var0700 on 3250, 6400 & MWs via transmitters of Radio Pyongyang.

"*March of the Guerrilla Army*": 0600-var0700 on 3320, 6250 & MWs via txs of Radio Pyongyang.

"*Cantata to Marshall Kim Il Sung*" (IS same as on Radio Pyongyang). No fixed broadcasting times, but when is on the air and there are no messages, than playing music or radio theater and special concerts for "workers and service-men". Current on-the-air times are:

1230-var1400 on every 8th & 28th March, June, Sept, Dec.

2200-var2300 on every Dec 31st, Feb 15th & Apr 14th.

1200-var1300 on every Jan 1st, Feb 16th & Apr 15th (the dates are related with holidays & birthday of dictators there) all on 4770 & 5870.

From KOR to KRE: Jammed.

Sporadically on the hour or the half-hour using: 4500, 4600, 4940, 5450, 5715, 6215. Starting with a song and mx, ending is same. Monitored in BUL on 5870.

For that information thanks for the sources Asian Broadcasting Institute, NASWA, The Journal Mr. J.Lineback. Mr.Sh.Paszkwicz, Mr. W.Tribel, Mr. S.Barto all from USA. (PanIview, ABCDX Rumen Pankov, all via BC-DX #454, 28 Feb 2000)

KUWAIT: New service in Urdu of **Radio Kuwait** has been observed on 15110 between 1600-1800 with powerhouse signal. They are playing Indian & Pakistani film songs only and asking for reception reports at: Radio Kuwait, PO Box 397, Safat 13004, Kuwait. This service is directed towards South & South East Asia. (Kanwarjit Sandhu via EDXP #158, 1 March 00)

LIBERIA: **ELWA Monrovia** has been heard after a long absence on its traditional frequency of 4760 kHz. The station has first been heard with excellent signals from around 1900 to 2200 UTC by Spanish DXer Enzo Gehrig, as well as American DXer Ralph Brandi. Gehrig reports hearing the station 1915-2025 on Thursday, Feb 11, with religious programming in English; giving ID at 2025 as "This program is coming to you from Monrovia, Liberia". Brandi reports hearing the station the same day at 2130, giving ID as "...of Radio ELWA". Transmission ended at 2200 with Liberian national anthem, and the carrier went off at 2204. Enzo Gehrig adds this contact info, received from Ron Sonius, the former director of the SIM mission in Liberia that ran ELWA Radio before the start of the civil war in 1996: "Because of the 8 year civil war in Liberia, which destroyed the original radio station, the post office in Liberia is not operating to it's full capacity; therefore the post offices around the world cannot send mail into Liberia. You may send your reception reports to Radio ELWA, c/o SIM Liberia, 08 BP 886, Abidjan 08, Cote d'Ivoire. The SIM mission in Abidjan sends the mail to ELWA in a bulk package once a week by air." (Excerpts via HJK, 9 Mar 00)

MALAWI: **Malawi Broadcasting Corporation** is once more on the air on 3380 kHz, in the 90 meter tropical band, by several DXers. The station has been heard in parallel with 5993.3 kHz, giving ID's as "MBC Radio One". (Excerpt via HJK, 9 Mar 00)

MISCELLANEOUS: Washington-based **Worldspace**, the first radio direct satellite broadcast service, announced this week that BBC World Service in English is now available on the Worldspace Afristar satellite, which beams to Africa and the Middle East and can also be received in Europe. This will begin with a three-month trial period, which is the usual BBC World Service procedure for rebroadcasting agreements. World Service will also be heard via the Worldspace Asiastar satellite after it is launched in mid-March. (Comm. 29 January 2000 via JKB)

The **EUROPEAN'S DX COUNCIL - EDXC** "Landlist" will shortly be available free on the EDXC Web site. Details can be found from <http://www.swl.net/edxc/> It is proposed that the next Conference of the EDXC will be held in Barcelona, Spain, in mid-October, and the 2001 event is planned for Budapest, Hungary. (BP in EDXP #158, 1 March 00)

Raimo Mäkelä list of **tropical band stations**.

frequency (kHz), station, location, 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 Ecuadora, 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
 2415.0 Zhejiang People's Broadcasting Station, Wenzhou, China
 2420.0 Radio São Carlos, Brazil
 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, Papua New Guinea
 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
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)
3250.8 Radio Comas, Huaquillay, Peru (v)
3255.0 Radio 6 de Agosto, Xapuri, Brazil
3255.0 BBC, Meyerton, South Africa
3260.0 Radio Estereo Carrizal, Calcuta, Ecuador (v)
3260.0 La Voix du Sahel, Niger
3260.0 Radio Madang, Papua New Guinea
3260.0 Radio La Voz de Oxapampa, Oxapampa, Peru (v)
3262.7 NHK Fukuoka 1, Japan
3264.8 RRI Bengkulu, Indonesia (v)
3265.0 RRI Gorontalo, 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)
3280.2 Radio Estacion Wari, Ayacucho, Peru (v)
3285.0 Radio La Voz del Rio 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
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, Goderich, Sierra Leone
3320.0 Pyongyang Broadcasting Station, North-Korea
3320.0 Radio Sonder Grense, South-Africa
3320.0 Radio 2000, South-Africa
3324.7 Radio Ondas Quevedas, Quevedo, Ecuador
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, 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
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 Nacional, Limon Indanza, Ecuador (v)
3370.0 Radio Sistema Cultural Tezulutlán, Guatemala (v)
3375.0 Radio Nacional de Angola, Angola (v)
3375.0 Radio Nacional, Sao Gabriel da Cachoeira, Brazil (v)
3375.0 Radio Clube, Dourados, Brazil (v)
3375.0 Radio Educadora, Sao Gabriel da Cachoeira, 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
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 All India Radio, Gangtok, India
3390.0 BBC Meyerton, South-Africa
3391.0 Radio Emisora Camargo, Bolivia
3395.0 RRI Tanjung Karang, Indonesia
3395.0 Radio Eastern Highlands, Papua New Guinea
3396.0 Zimbabwe Broadcasting Corporation, Zimbabwe
3398.4 Radio Internacional del Peru, San Pablo, Peru (v)
75 meter band
3900.0 Nei Menggu People's Broadcasting Station, 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)
3961.8 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 Pontianak, Indonesia (v)
3996.0 RRI Pontianak, Indonesia (v)
3996.0 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 Xizang People's Broadcasting Station, China
4750.0 Nei Menggu People's Broadcasting Station, China
4750.0 Radio Municipal, Quito, Ecuador
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
4759.0 Radio Tingó Maria, Peru (v)
4760.0 All India Radio, Leh, India
4760.0 All India Radio, Port Blair, Andaman & Nicobar Islands
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 Intergracao, Cruzeiro do Sul, Brazil
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 Oriental, Tena, Ecuador (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 Bahai, Chimbote, 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
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 Onda Azul, Puno, Peru (v)
4805.0 Radio Difusora do Amazonas, Manaus, Brazil
4805.0 Radio Itatiaia, Belo Horizonte, Brazil
4810.0 Voice of Armenia, Yerevan, Armenia
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 Xizang People's Broadcasting Station, China
4820.0 Radio Rossii, Khanty-Mansiysk, Russia
4820.0 Radio Ukraine International, Ukraine
4820.0 All India Radio, Kolkata, India
4824.3 La Voz de la Selva, Iquitos, Peru (v)
4824.9 Radio Cancao Nova, Cachoeira Paulista, Brazil
4824.9 Radio Mam, Guatemala (v)
4825.0 Radio Educadora, Braganca, Brazil
4825.0 Radio Rossii, Yakutsk, Russia
4826.1 Radio Sicuani, Sicuani, Peru (v)

- 4828.0 Zimbabwe Broadcasting Corporation, Zimbabwe
4830.0 Radio Grigotá, Santa Cruz, Bolivia
4830.0 Radio Botswana, Botswana
4830.0 China Huayi 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
4830.3 Radio El Buen Pastor, Saraguro, Ecuador (v)
4830.6 Radio Lircay, Peru (v)
4831.5 Radio Reloj, Costa Rica (v)
4834.7 Radio Maranon, Jaen, Peru (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 Interoceánica, 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
4845.0 Radio Lider, Cusco, Peru (v)
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
4851.2 Radio Luz y Vida, Loja, Ecuador (v)
4855.0 Radio Centenario, Santa Cruz, Bolivia (v)
4855.0 Radio Tropical, Barra do Garcas, Brazil
4855.0 Radio Mozambique, Mozambique (v)
4855.4 Radio La Hora, Cusco, Peru (v)
4860.0 Radio Federacion, Sucua, Ecuador
4860.0 All India Radio, Delhi, India
4860.0 Radio Rossii, Chita, Russia
4864.0 Radio 16 de Marzo, Bolivia (v)
4865.0 Radio Alvorada, Londrina, Brazil
4865.0 Radio Missoes da Amazonia, Obidos, Brazil
4865.0 Radio Verdes Florestas, Cruzeiro do Sul, Brazil (v)
4865.0 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)
4875.0 Radio Sonorama, Huancayo, Peru (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
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 Villarica, 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, Cajamarca, Peru (v)
4895.0 Radio Baré, Manaus, Brazil
4895.0 Radio IPB AM, Campo Grande, Brazil
4895.0 La Voz del Rio Arauca, 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)
4900.0 Voice of the Strait, Fuzhou, 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, Araguaína, 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
4908.0 Radio Tawantinsuyo, Cusco, Peru (v)
4910.0 Northern Territory Shortwave Service, Tennant Creek, Australia
4910.0 All India Radio, Jaipur, India
4910.0 Radio Libertad, Trujillo, Peru (v)
4910.0 Zambia National Broadcasting Corporation, Zambia
4910.6 La Voz de la Mosquitia, Puerto Lempira, Honduras (v)
4910.7 RRI Bukittinggi, Indonesia (v)
4911.0 Radio Emisoras Gran Colombia, Ecuador
4914.5 Radio Cora del Peru, Lima, Peru (v)
4915.0 Radio 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
4923.3 Radio Ondas de Titicaca, Puno, Peru (v)
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 The Voice of the Strait, China
4940.0 All India Radio, Guwahati, India
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
4950.0 Voice of Puijiang, Shanghai, China
4950.0 All India Radio, Srinagar, India
4950.0 Nei Menggu People's Broadcasting Station, China
4950.1 Radio Madre de Dios, Puerto Maldonado, 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 Radio Vanuatu, Vanuatu
4960.0 SIBC Honiara, Salomon Islands
4960.0 Voice of Vietnam, Vietnam
4960.1 Radio Federacion, Sucua, Ecuador
4960.3 Radio HRET, Puerto Lempira, Honduras
4964.3 Radio La Merced, La Merced, Peru (v)
4965.0 Radio Alvorada, Parintins, Brazil
4965.0 Christian Voice, Zambia
4965.0 Provincial Station Radio Son La, Vietnam
4965.8 Radio San Miguel, Cusco, Peru (v)
4967.9 Radio Juan XXIII, Bolivia (v)
4969.5 Radio Imagen, Tarapoto, Peru (v)
4970.0 Xinjiang People's Broadcasting Station, Urumqi, China
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 Orteguzaza, Colombia
4975.0 Voice of Russia, Russia
4975.0 Tajik Radio, Yangi-Yul, Tajikistan
4976.0 Radio Uganda, Kampala, Uganda
4980.0 Radio Batallon Topater, Bolivia (v)
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
4990.0 Federal Radio Corporation of Nigeria, Lagos, Nigeria
4990.9 Radio Animas, Chocaya, Bolivia
4990.9 Radio Apintie, Paramaribo, Surinam (v)
4991.0 Radio Ancash, Huaraz, Peru (v)
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 Libertad, La Paz, Bolivia
5005.0 Radio Nepal, Nepal (v)
5005.0 RTM Kuching, Sibul, Malaysia
5005.5 Radio Jaén (La Voz de la Frontera), Jaén, Peru (v)
5009.5 Radio Madagascar, Madagascar (v)
5010.0 CRTV Radio Garoua, Cameroon (v)
5010.0 All India Radio, Thirupuram, India
5010.0 RTM Madagascar, Madagascar
5010.3 Escuelas Radiofónicas Populares / ERPE, Riobamba, Ecuador (v)
5012.0 Radio Cristal Internacional, Dominican Republic (v)
5014.8 Radio Pioneira de Teresina, Brazil (v)
5015.0 Emissora Provincial do Namibe, Angola
5015.0 Radio Estacion Tarapoto, Peru (v)
5015.0 Radio Brasil Tropical, Cuiaba, Brazil (v)
5015.0 Radio Copacabana, Rio de Janeiro, Brazil (v)
5015.0 Radio Rossii, Tavrichanka, Russia
5015.0 Turkmen Radio, Turkmenistan

5015.6 Radio Juliaca, Peru (v)	5035.0 Radio Tashkent, Uzbekistan
5019.6 Ecos del Atrato, Quibda, Colombia	5039.2 Radio Libertad, Junin, Peru (v)
5019.8 Radio Horizonte, Chahapoyas, Peru (v)	5039.9 RRI Pekanbaru, Indonesia (v)
5020.0 Jiangxi People's Broadcasting Station, China	5040.0 Fujian People's Broadcasting Station, China
5020.0 Xizang People's Broadcasting Station, China	5040.0 La Voz de Yopal, Colombia
5020.0 ORTN Niamey, Niamey, Niger (v)	5040.0 Radio La Voz del Upano, Macas, Ecuador
5020.0 SIBC Honiara, Salomon Islands	5040.0 Georgian Radio, Dusheti, Georgia
5020.0 SLBC, Sri Lanka	5043.0 Emissora Provincial de Benguela, Angola
5025.0 Northern Territory Shortwave Service, Katherine, Australia	5045.0 Radio Cultura do Para, Belem, Brazil
5025.0 Radio Jornal do Transamazonica, Altamira, Brazil	5046.2 Radio Intergración, Peru (v)
5025.0 ORTB Parakou, Benin (v)	5047.0 Radiodiffusion Togolaise, Lomé, Togo
5025.0 Radio Rebelde, Cuba	5049.6 Radio Tayacaja, Peru (v)
5025.0 Radio Quillabamba, Peru (v)	5050.0 Guangxi Foreign Broadcasting Station, China
5025.0 Radio Tashkent, Uzbekistan	5050.0 The Voice of the Strait, China
5026.0 Radio Uganda, Kampala, Uganda	5050.0 All India Radio, Aizawl, India
5027.0 Radio Pakistan, Pakistan (v)	5050.0 Radio Tanzania, Dar-es-Salaam, Tanzania
5030.0 Bhutan Broadcasting Service, Thimpu, Bhutan (v)	5050.0 Quang Tri Broadcasting Station, Vietnam
5030.0 China National Radio, China	5050.4 Radio Jesús del Gran Poder, Quito, Ecuador (v)
5030.0 Adventist World Radio, Costa Rica	5050.4 Radio Municipal de Cangallo, Peru (v)
5030.0 Radio Tonga, Tonga	5054.9 Radio Faro del Caribe, Costa Rica (v)
5030.0 Provincial Station Dia Tieng Noi, Vietnam	5055.0 Radio Jornal A Critica, Manaus, Brazil(v)
5030.2 Radio Católica Nacional del Ecuador, Quito, Ecuador	5055.0 Radio Difusora, Caceres, Brazil
5030.5 Radio Los Andes, Huamachuco, Peru (v)	5055.0 RFO Cayenne, French Guyana (v)
5033.0 RTV Centrafricaine, Bangui, Central African Republic (v)	5055.0 Radio Pakistan, Pakistan
5035.0 Radio Aparecida, Brazil (v)	5060.0 Xinjiang People's Broadcasting Station, Urumqi, China
5035.0 Radio Educacao Rural, Coari, Brazil (v)	5060.0 Radio Tashkent, Uzbekistan
5035.0 Kazakh Radio, Alma Ata, Kazakhstan	v = variable frequency

('Raimo Mäkelä's Tropical Radio Stations' at the web - version 5 Dec 99, via JKB)

FSU *air-meteo stations* with weather forecast.

In Russian:

2941, 6617, 8940, 11297 kHz :
 Petersburg-meteo (xx.05-xx.10 and xx.35-xx.40)
 Moskva-meteo (xx.10-xx.19 and xx.40-xx.49)
 Kiev-meteo (xx.20-xx.25 and xx.50-xx.55)
 Rostov-meteo (xx.25-xx.29 and xx.55-xx.59)
 2869, 6693, 8888, 11318 kHz :
 Syktyvkar-meteo (xx.00-xx.05 and xx.30-xx.35)
 Koltsovo-meteo (xx.05-xx.10 and xx.35-xx.40)
 Novosibirsk-meteo (xx.10-xx.15 and xx.40-xx.45)
 Samara-meteo (xx.15-xx.20 and xx.45-xx.50)
 Tyumen-meteo (xx.20-xx.25 and xx.50-xx.55)
 3407, 6730, 8819, 11279 kHz :
 Tbilisi-meteo (xx.00-xx.05 and xx.30-xx.35)
 Aktyubinsk-meteo (xx.05-xx.10 and xx.35-xx.40)
 Alma-Ata-meteo (xx.10-xx.19 and xx.40-xx.49)
 Tashkent-meteo (xx.20-xx.25 and xx.50-xx.55)
 3116, 5691, 8861, 13267 kHz :
 Kirensk-meteo (xx.00-xx.05 and xx.30-xx.35)
 Yakutsk-meteo (xx.10-xx.15 and xx.40-xx.45)
 Khabarovsk-meteo (xx.15-xx.20 and xx.45-xx.50)
 Magadan-meteo (xx.20-xx.25 and xx.50-xx.55),
 Irkutsk-meteo (xx.25-xx.30 and xx.55-xx.00)
 8852 kHz :
 Khatanga-volmet
 4685 kHz :
 Orenburg-meteo (computer)

In English:

4663, 10090, 13279 kHz :
 Khabarovsk-meteo (xx.05-xx.10 and xx.35-xx.40)
 Tashkent-meteo (xx.10-xx.15 and xx.40-xx.45)
 Samara-meteo (xx.15-xx.20 and xx.45-xx.50)
 Novosibirsk-meteo (xx.20-xx.25 and xx.50-xx.55)
 Moskva-meteo (xx.25-xx.30 and xx.55-xx.00)
 4645 kHz :
 Tallinn-volmet (computer)

(Andrey Zhukov in RUS-DX #79-C via Michael Bethge, February 2000)

NETHERLANDS: *InfoRadio* is a legal private broadcaster from the Netherlands. The station will broadcast during this summer a half hour program targeted to people normally living in the south of the Netherlands, but who are now on holidays. InfoRadio has got all the approvals needed from the Dutch and the German government: the programs will be transmitted through the facilities of Deutsche Telekom (German Telecom, ed.) in Juelich, Germany. The programs will be broadcast from Jun-17 until Sep-02 between 1000-1030 CET on Saturdays on 7285, and can be received in the Benelux, Denmark, Germany, France, England, Austria, Switzerland and the north of Italy. The programs keeps normally living in the south of the Netherlands informed about what happens at home. Also relevant travel information will be provided. These are the items that will be part of every program:

- news of last week
- background stories
- travel information
- greeting service
- contest
- Dutch music
- weather forecast

More information via <http://www.inforadio.nl>

(John Figliozzi via EDXP #157, Feb-18)

POLAND: Review of *Polish HF longwave and mediumwave transmitters*.

198 kHz: Old transmitter at Raszyn near Warszawa, after a period of silence since January again on air during daytime (exact transmission times seems to vary somewhat) with reduced power of 200 kW, carrying program PR 3 ("Trojka") and parliament live coverage. This ancient 600 kW transmitter was used on LW 225 since the 2000 kW rig at Gabin-Konstantynow near Plock was knocked off the air in 1991 by a collapse of it's 646 metres tall antenna mast, which so far known was the highest construction on earth at all.

225 kHz: Brand new 1000 kW transmitter near Solec Kujawski, inaugurated in last year 1999, carrying program PR 1 around the clock 24 hours a day. This new facility replaced finally Gabin-Konstantynow, which could not be restored due to counteraction from the population there.

738, 819, 1080, 1206, 1260, 1305, 1368, 1485, 1584, 1602 kHz: These transmitters used to carry the 4th network of Polish Radio, in the first half of the Nineties also Radio Free Europe - RFE Polish schedule. While the Raszyn transmitter on LW 225 had to go off air temporarily in September 1997 due to urgent need for a refurbishing of it's aerial system, leaving Polish Radio (PR) without any LW broadcast, the MW's were used for PR 1 instead. On January 26th 1998 Raszyn came back on air, following this the MW's continued with PR 1 program, in parallel LW 225 for some time during daytime only (two weeks or so) and was then shut down completely.

1503 kHz: Stargard-Tychowo near Szczecin, abandoned by Radio Polonia (external schedule) in the first half of the Nineties (by the end of 1993?) due to budget limitations. From 1997 carrying Trans World Radio until acc. TWR press release the Polish Telecom company announced that Tychowo will cease to operate in January 2000 definitely. Somewhat incomprehensible, what reason to finally shut down this transmitter should they have, which was not known less than three years ago when they were going to sell it? (Strange IBB/VOA signal heard testing on 1503 in past months, according to some DX press reports).

Radom 1602 kHz: The 1 kW transmitter there is still listed with commercial Radio Ton. Never found any reports who confirmed the operation of this station, so it isn't impossible that it is just an entry on the files anymore, but if not this low power station is on air at present as only Polish MW transmitter at all. Perhaps one should even say "anymore" instead of "at present". The announcement about the definite shut-down of the Stargard-Tychowo transmitter makes wonder if the Polish Telecom intends to turn away also the other MW facilities. (KLE via BC-DX #454, 28 Feb 2000)

RUSSIA: Long- and medium wave *station review* for the *Moscow region*.

KHz

kW - UTC - Station - Transmitters - Call

153

300 day,150 night - 0300-2200 - Yunost - Moscow - RV-359

171

1250 - 0400-2100 - Radio-1- Elekrtoestal - RV-2

198

150 - 0200-2200 - Mayak - Noginsk - RV-71

261

2500 - 0200-2200 - Radio Rossii - Taldom - RV-99

549

1000 day,500 night -0200-2205 - Mayak -Chkalovskiy

612

40 kW - Kurkino - RV-1141

0400-1600 - Narodnoe Radio

1600-1700 Tue-Fri - Islamskaya Volna

1600-1700 Sat - Radio Kala Aturaya

1600-1700 Sun-Mon - Voice of Russia (in English)

1700-1800 Fri - Wed - Radonezh

1700-1800 Thur - Radio Alef

1800-2000 Daily - Radonezh

2000-2200 - Voice of Russia (in Russian)

2200-2300 - Voice of Russia

693

10 - - Deutsche Welle (0300-0400 German, 0400-0450 Russian, 0450-1600 German, 1600-2200 Russian, 2200-2300 German) - Moscow

810

100 - Voice of America (0400-0430 Russian, 0430-0900 English, 0900-1100 Russian, 1400-1500 Russian, 1500-1800 English, 1800-2000 Russian)

846150- Radikompaniya "Moskva" (0400-0500 Mon-Fri, 0400-0500 Sat, 0600-0700 Mon-Fri, 1200-1300 Sat, 1400-1600 Mon-Thur, 1500-1900 Fri)
- Noginsk - RV-270**846**150 - Radiokompaniya "Podmoskovie" (0300-0400 Mon-Fri, 0800-0900 Mon-Fri, 1000-1100 Sun, 1400-1500 Fri-Sat, 1600-1700 Mon-Thur)
- Noginsk - RV-270**846**

150 - Radonezh (1800-1900 Sat-Thur, 1900-2000 Daily) - Noginsk - RV-270

873

1200 - 0200-2200 - Radio Rossii - Noginsk - RV-86

918

75 - Svobodnaya Rossiya (0400-0700 Mon-Fri, 1000-1300 Mon-Fri, 1600-1900 Mon-Fri) - Balashikha - RV-108

1017

500(2x250) - 1400-1900 Mon-Sat - Radio Rezonans - Leshoy - RV-191RV-194

1044

20 - 24 h. - Liberty

1116

10 - 0300-2100 -

Krestyanskiy Tserkovno-obshchestvennyj Kanal - Moscow -RV-220

1134

20 - 0500-2100 - Radio TEOS -Kurkino

1152

150 - 0300-2100 - Orfey - Moscow - RV-263

1233

150 - 0500-0645,1015-1600 - Narodnoe Radio

1260

10 - 24 h. - BBC (Russian / English) - Moscow - RV-598

1305

300 - 0400-2100 - Radio-1 - Radio-1

16

1413

40 - 0500-0900, 1200-1600 - Kamerton Radio - Balashikha - RV-1123, RV-1127

1413

0900-1200 - Mayak

1440

10 - RFI (0400-0430 Russian, 1400-1430 Russian, 1900-2000 Russian),
RFI Musique (0900-1100 French, 1430-1630 French), RFI Monde (0300-0400
French, 0430-0900 French, 1100-1400 French, 1630-1900 French,
2000-2100 French) - Moscow

1485

20 - 0700-1000 Mon-Fri - Radio Sadko - Kurovskaya

1485

40 - 0400-0700, 1330-2130 - Radiostation Tcentr - Kurkino
(Anatoly Klepov in RUS-DX #80-A via Michael Bethge, March 2000)

SOLOMON ISLANDS: *Radio Hapi Isles*, SIBC, National Service is installing a new 10 kW transmitter (made by Omnitronics, Philadelphia) at the Henderson transmitting Station, 13 km east of Honiara. It will replace the old 10 kW until on 5020 kHz, which was running at only 5 kW during the past few years. After overhauling it, the old transmitter will remain as a stand-by. SIBC uses 5020 // 1035 MW at 1900-1200. In co-operation with the Ministry of Education, SIBC may reintroduce 9545 for an Educational Service to the outer islands. (Maarten Van Delft via Dave Kenny via BDXC via DXLD via EDXP #158, 1 March 00)

SOMALIA: *Radio Banaadir* is new on 7213v kHz. This new radio station was heard with s/on at 1600, February 25, with organ music, then ID and announcement followed by recital of koran then talk and songs. At 1845 organ music, ID before news, then ID again as Radio Banaadir, Somalia ... Africa ... meter band...". Then again "Radio Banaadir... Africa", and just after that African and International news bulletins. ID after news and went off at 1900 after recital of koran. Poor reception. The station was on 7210 early February, and probably will keep moving as all Somalia stations do. (Mahendra Vaghjee, Mauritius, hard-core-dx) The news on Radio Banaadir might be a hint that the long awaited station that bought its equipment in Germany late last year has finally come on the air. If so, power should be around 1 kW into an L-antenna. (Harald Kuhl, Germany, hard-core-dx).
(Both excerpts via HJK, 9 Mar 00)

SYRIA: External service of *Radio Damascus* for A-00 period on new frequency 17830 via Adra transmitter Address: Omyyad Square, Damascus, Syria.

0100-0400 500 kW /312 deg 1800-2100 500 kW / 312 deg

0400-1700 500 kW /non-dir 1800-2200 500 kW / 240 deg

1700-1800 500 kW /non-dir 2100-2200 500 kW / 098 deg

(Observer #67 via WB, March 1st, 2000)

TURKEY: 6900 *Turkish State Meteorological Service* back again. Heard strong signal today at 1530 (in Germany, ed.). Program nonstop Turkish folklore music. Stations ID at 1630 mentioned Ankara. 1630-1635 extensive weather report. Nat. Anth. 1635, end of program. Although carrier still on air until approx. 1720 UTC. (HJK in BC-DX #456, Mar 7)

UKRAINE: Schedule of *Radio Ukraine International* from 17 February 2000.

Frequency,kHz; Time,UTC; Channel; Azimuth,degree:

171	2300-0100	3	ND
6020	2200-0600	1	ND
6020	0700-2100	1	242
6080	1600-0200	3	055
9560	1500-0200	1	254
9600	0300-1000	1	254
9610	0100-0000	1	090

9785	2000-2300	3	238
9810	0000-0500	3	303
9870	1300-2300	2	307
11825	0300-0700	3	055
13590	0400-1200	2	266
15520	0800-1500	3	235
21510	0800-1300	3	096

Power of transmitters is 100 kW, except on the frequencies 171, 9785, 9810 and 21510 kHz (1000 kW).

Broadcasts in various languages:

- GERMAN (1-hour): 1 ch. 1800 2100 0000;
 - ENGLISH (1-hour): 1 ch. 2200 0100 0400, 2 ch. 2200 0100, 3 ch. 2200 0400 1200;
 - UKRAINIAN: the rest of time and frequencies on all channels;
 - ROMANIAN (1/2-hour): 1800, 2030, 2200 on 657 kHz of Medium Waves (25 kW).
- (Alexandr Egorov in RUS-DX #79-C via Michael Bethge, February 2000)

USA: World-Wide shortwave radio stations carrying *Dr. Gene Scott's* programs on the **University Network**.

Starting broadcasting schedule for Costa Rica, transmitter 1:

7375 24 hours a day

11870 24 hours a day

South to Brazil and all South America, transmitter 2:

9725 24 hours a day

North to Cuba, the USA and Canada, transmitter 3:

13750 24 hours a day

East to the Caribbean, Europe and Africa, transmitter 4:

5030 24 hours a day

North & South America, transmitter 5:

6150 24 hours a day

Northern South America and Africa via WWCN Nashville, Tennessee - USA:

5935 0100-1200

13845 1200-0100

Northern Antenna - serving the USA And Canada via KAIJ Dallas, Texas - USA:

13815 1400-0000

5810 0000-1400

Southern Antenna - serving all of Latin America via KAIJ Dallas, Texas - USA:

15725 1400-0000

13740 0000-0100

9815 0100-1400

Via Radio Moscow transmitters:

12065 0300-1000 via Novosibirsk

12050 1000-1600 via Novosibirsk

13645 0300-0700 via Krasnodar

17590 0700-1600 via Samara

Via Swazi Radio, Swaziland:

6155 0300-0700

1377 0300-0700

High Adventure, Mt. Hermon, Israel:

9960 & 6280 shortwave, 945 mediumwave, Dr. Scott's "Table Of The Lord"
(Communion)

The Caribbean Beacon, Anguilla, British West Indies:

690 & 1610 mediumwave,

new shortwave transmissions at 11775 (Daytime) + 6090 (Nighttime)

(Dr. Gene Scott's webpage last modified: Tue, 22 Feb 2000, via JKB)

VANUATU: 7260 *Radio Vanuatu*, apparently reactivated. Tuned in 0719 Feb 29 to man in Fr, ID by man, then drums at 0726 and woman in En, then possible Pidgin. IDs with "Radio Vanuatu" at 0727, another ID as "R. Vanuatu" at 0728, then sound of seagulls briefly, into marimba-style music with island guitar. Another R. Vanuatu ID with TC for "half past six," then woman reading the news. Nothing on 4960, which has been running very strong the past seven nights, during which there was nothing on 7260

(and R Tampa was always on 3945). Nice strong S=6-8 signal off the WEWE. (Nelson - NU via BC-DX #455 Feb 29)

Sources & Contributors:

- BC-DX News Bulletin by Wolfgang W. Bueschel - Germany.
- WWDXC-HQ Worldwide DX Club Headquarters / M. Bethge - Germany.
- BP Bob Padula, - Australia.
- Comm Communications World, hosted by Dr. Kim Andrew Elliott, VOA.
- EDXP Electronic DX Press, Bob Padula - Australia.
- GIB Gabriel Ivan Barrera - Argentina.
- HJK Hans-Joachim Koch, Niddatal - Germany.
- JKB Dr. Juergen Kubiak, Berlin - Germany.
- KLE Kai Ludwig, Elsterwerda - Germany.
- Observer Fortnightly edition of Radio Bulgaria's Frequency Management.
- RUS-DX Information bulletin of Russian DX League.
- WB Wolfgang W. Bueschel, Stuttgart - 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

by Eberhard Ahl, Postfach 32 01 39, D-55065 Mainz, Germany

MEDIUMWAVE

Frequency	Time	SINPO	Country	Station	Language	Programme details	Date	RPT
252,0	0205	35444	IRL	New Atlantic 252	E	ID "We are the new Atlantic 252"	0403	HKN
675,0	2246	33433	HOL	R. Teen Gold	DUTCH	ODLIS MX, Talk	1102	ZL
774,0	1800	33343	E	RNE 1 div.	S	ID, News, Pinochet	0403	EAM
783,0	1755	33333	D	MDR Info, Leipzig	D	Lokal Rep. von Frau	0403	EAM
792,0	1750	23222	GRC	ERA Thessaloniki	GRC	Folkl Gesang,	0403	EAM
810,0	1745	24333	MKD	R. Skopje	VN	Lokal Rep. v. Frau	0403	EAM
831,0	2232	O=3	SYR	R. Damascus	A	Talk PX, MX	1102	ZL
864,0	1740	23322	F	TDF R. Blue, Paris	F	ID, Interwiev mit Frau	0403	EAM
873,0	2226	22422	D	AFN Frankfurt/Main	E	Interview	1102	ZL
882,0	1940	23332	D	MDR Wachenbrunn	D	Schlager MX, Talk	2702	EAM
891,0	1945	23333	ALG	RTA Algier	A	Talk Männergesang	2702	EAM
900,0	1730	44444	I	RAI UNO, Rom	ITAL	Sport Live, Genua	0403	EAM
909,0	2035	44333	G	BBC R.	E	Talk, Sport Reprt, ID	2402	EAM
945,0	17120	33333	F	TDF R. Blue, Toulouse	F	Saxofon MX, m. Andre	0403	EAM
963,0	1958	23322	TUN	ERTT Tunis	A	RM „FNL“, Folkl MX	2702	EAM
990,0	1715	23222	D	DLR Berlin	D	//6005, Class. MX	0403	EAM
990,0	2005	33333	I	RAI – Potenza	VN	Sport Live //900	2702	EAM
990,0	2005	33333	I	RAI – Potenza	VN	Sport Live //900	2702	EAM
1035,0	1710	23332	I	RAI Due	ITAL	Gesang, Talk, ID, MX	0403	EAM
1044,0	2107	33323	E	SER San Sebastian	S	Talk by OM, Mosambiq	0303	EAM
1044,0	2100	33333	GRC	ERA Thessaloniki	GRC	Telefon talk, ID, News	0303	EAM
1089,0	2055	33343	G	Talk Radio div.	E	Fusball Rep., Tabelle	0303	EAM
1134,0	2050	44444	HRV	HR 1 Zadar	VN	Talk ü.CD, Schlager MX	0303	EAM
1143,0	2200	44444	I	RAI	ITAL.	Songs and Talk PX	1102	ZL
1179,0	2045	44444	S	RSI Stockholm	E	Rep. Pinochet, Argent.	0303	EAM
1242,0	2137	2XX2	??	. Kiev	VN	Old Russian Songs	1102	ZL
1242,0	2117	O=3-4	MKD	R. Skopje	VN	ID, Lokal PX	1102	ZL
1242,0	2148	43443	SVN	R. Kapodistria	VN	Nice Pop Songs	1102	ZL
1296,0	2127	22422	E	Cope radio	S	QRM BUL, Talk PX	1102	ZL
1332,0	2040	34444	I	RAI ??	ITAL	Carneval MX, Talk	0303	EAM
1368,0	2120	44444	I	RAI 3	ITAL.	Variete PX	1102	ZL
1377,0	2115	34433	F	TDF Lille	F	Chanson MX, Talk, MX	2402	EAM
1413,0	2022	33433	E	R. Nacional 5	S	Talk by OM	1102	ZL
1413,0	2111	33433	E	RNE 5	S	Talk, ID, MX Santana	2402	EAM
1413,0	2111	33433	E	RNE 5	S	Talk, ID, MX Santana	2402	EAM
1422,0	2015	43433	D	DLF Heussweiler	D	Guitar MX, Talk	1102	ZL
1431,0	2025	33432	I	RAI ??	ITAL.	Music and Talk	1102	ZL

Frequency	Time	SINPO	Country	Station	Language	Programme details	Date	RPT
1431,0	2106	33333	I	RAI 2 (2 Stationen)	VN	Talk, Mx mit Echo	2402	EAM
1431,0	2106	33333	I	RAI 2 (2 Stationen)	VN	Talk, Mx mit Echo	2402	EAM
1440,0	0515	54444	LUX	Radio Märtyrerkirche	D	Stephanusbotschaft05.30	0503	HKN
1440,0	0545	54444	LUX	Missionswerk Weg zur Freude	D	Gottes Wort mit Torsten	0503	HKN
1440,0	0600	54444	LUX	Arche Hamburg	D	Die Macht der Liebe, 06.15	0503	HKN
1449,0	2033	32442	I	RAI Due	ITAL.	//1431	1102	ZL
1458,0	2314	34443	ALB	ERF – Tirana	E	Gesang, ID, IS	0502	EAM
1458,0	2100	33333	G	Sunrise Radio	E	ID, News, ADV	2402	EAM
1467,0	2055	44444	D	ERF 1	D	Gesundheitstips,	2402	EAM
1476,0	2050	44444	AUT	R. Nachbar in Not	D	Fragen an Hörer, Adr.	2402	EAM
1512,0	2044	44444	BEL	R. Vlaanderen Inter	E	ID, „Intern. Report“	2402	EAM
1521,0	0700	33333	???	BBCWS	E	ID, Worldnews, QRM - SER	0503	HKN
1521,0	2040	33433	UAE	R. Abu Dhabi	A	Folkl Gesang, Talk	2402	EAM
1548,0	1900	34333	????	ERF,	(OST)	IS, Class.MX, Talk	2702	EAM
1548,0	2250	33333	G	R. Capitol Gold	E	Pop Oldis , ID	0502	EAM
1566,0	2354	24322	IND	AIR Nagapur	VN	Indische Folklore MX	2902	HKN
1575,0	1950	33333	I	RAI div.	ITAL	Sport live, Maldini	0503	EAM
1584,0	0011	43333	I	R. Studio X, Momingo	ITAL	ID, "Merry Christmas"	0103	HKN
1600,8	2055	33443	GRC	ERA 2	VN	PX in LSB , Lokal MX	1102	ZL
1602,0	1944	23322	E	R. Euskadi	S	MX, Talk by OM	0503	EAM
1611,0	2052	44444	CVA	R. Vatikan	Philipino	Talk PX	1102	ZL

TROPICAL BAND

Frequency	Time	SINPO	Country	Station	Language	Programme details	Date	RPT
3210,0	0326	35444	CTR	REE Relay, Cariari	S	ID, Interview, Adresse	2502	HKN
3215,0	0300	23322	USA	WWCR, Nashville	E	ID, Adresse, Prediger	2602	HKN
3240,0	0333	24322	SWZ	TWR, Mpangela	SHONA	Christlicher Chor,	2502	HKN
3255,0	0340	24322	AFS	BBCWS, Meyerton	E	Story from Hongkong	2502	HKN
3300,0	0349	23322	GTM	R. Cultura, Guatemala	S	Relig. Px, Talk ü. Bibel	2502	HKN
3320,0	0357	33333	AFS	R. Sonder Grense,	AFRIKAA	ID, Telefon Nr., Pop,	2502	HKN
3980,0	2014	54444	G	RKI Relay via Merlin	D	Hörerpost Ecke,	2602	HKN
4005,0	0408	55444	I	R. Vatikan Relay, Santa Maria de Galeria	KROAT	ID, Nachrichten aus der katholischen Kirche, IS	2502	HKN
4010,0	0050	24322	KGZ	Kyrgyz R., Bishkek	KYRGY	(HS1) Polit. Talk by OM	0103	HKN
4061,3	0414	24333	CLA	VO the People of Kurdistan	A	//6995,0 ID, arabische instrumental Musik,	2502	HKN
4250,0	0419	25433	CLA	VO Kurdistan Toilers	KURDI	ID, oft auch Kurdistan erwähnt, Folklore Lieder	2502	HKN
4460,0	2326	23322	CHN	CPBS 1	C	TalkMann/Frau //5320	2102	HKN
4485,0	0110	35444	RUS	R. Rossii, Krasnoyarsk	R	ID, Jingle, Schlager Musik, Frühsport	2802	HKN
4635,0	1914	22332	TJK	R. Tadschikistan	VN	Talk Folkl Gesang	2702	EAM
4755,0	0432	24322	CLA	UNID (Clandestine)	A	Polit. Rep .oft Irak	2502	HKN
4765,0	0320	24333	B	R. Emissora Rural,	P	Brasilianischer Schlager	2602	HKN
4775,0	0320	14322	B	R. Liberal, Belém	P	La. MX, Werbung	2502	HKN
4785,1	0309	13322	B	R. Cariari, Porto Velho	P	Romantische Musik,	2502	HKN
4785,4	2050	34333	MLI	Radiodiffusion TV Malienne, Bamako	F	Afrikanische Folklore Gruppen //4835,0 O = 4	2602	HKN
4790,4	0101	44333	PAK	R. Pakistan,	VN	Nachrichtenblock	0103	HKN

Frequency	Time	SINPO	Country	Station	Language	Programme details	Date	RPT
				Rawalpindi		politischer Kommentar		
4800,0	0108	34333	IND	AIR Hyderabad	VN	Ansager,ID,ind. MX	0103	HKN
4810,0	2058	44444	ARM	VO Armenia	E	ID, Nachrichten, lokale Informationen	2602	HKN
4819,2	0450	24333	HND	LV Evangélica,	S	ID, Frequenzen, Adresse	2502	HKN
4825,0	0505	14322	B	R. Cancao Nova	P	Ave Maria Gebete	2502	HKN
4835,0	0115	25433	GTM	R. Tezulutlán, Cobán	S	Polit. Talk ü.Argentinien	0103	HKN
4835,0	0251	34333	GTM	R. Tezulutlán, Cobán	QEQCH	Marimba Musik, ID, TA	2502	HKN
4835,0	1920	23333	MLI	Rdif Malienne	F/VN	Talk, Folkl Gesang	2702	EAM
4835,0	2005	23333	MLI	R.diff. Malliene	F	ID, MX, News	0503	EAM
4840,0	0120	34433	IND	AIR Lucknow	VN	Polit.Rep. von Pakistan,	0103	HKN
4845,0	0240	24333	BOL	R. Fides, La Paz	Aymara	Relig. Px, Orgelmusik,	2502	HKN
4845,0	2010	33333	MTN	R. Nouakchot	VN	Talk by OM, Folkl MX	0503	EAM
4850,0	1928	44444	UZB	R. Tashkent	VN	Folkl. Gesang, Talk	2702	EAM
4860,0	0125	34444	IND	AIR Delhi, Kingsway	VN	Frau über Bangladesh,	0103	HKN
4865,0	0515	24322	B	R. Alvorada, Londrina	P	christliches Px, Sängerin	2502	HKN
4870,0	0225	25433	EQA	La Voz del Upano,	S	Andenfolklore, ID,	2502	HKN
4885,0	0425	24333	B	R. Clube do Pará,	P	Oldies, ID, Frequenzen	2602	HKN
4890,0	0435	44333	GAB	RFI Relay, Moyabi	F	ID, Journal de RFI	2602	HKN
4915,0	0446	24333	B	R. Anhanguer	P	Musica tropical, ID	2602	HKN
4915,0	2020	23333	GHA	GBC Accra	E	Talk by OM , Feeling	0503	EAM
4919,0	0214	24333	EQA	Radio Quito, Quito	S	ID "La Voz de Capital",	2502	HKN
4930,7	0455	34333	HND	R. Ebenecer, San Petro Sula	S	Folklore Sänger, ID + Frequenzen c/d 05.01	2601	HKN
4935,0	2313	24322	B	R. Capixaba, Vitória	P	Prediger, relig. Px	2102	HKN
4939,5	0205	24333	VEN	R. Amazonas, Puerto Ayacucho	S	Nachrichten, Bericht über Buenos Aires	2502	HKN
4950,0	0140	24333	IND	AIR Kohima	VN	Bharati - Service,	0103	HKN
4950,0	2025	34433	STP	VoA Relais	E	PX“Afrika tonight“,NF	0503	EAM
4955,0	0150	34433	CLM	R. Nacional de Colombia, Bogotá	S	Folklore Gruppen, 02.00 ID + Nachrichtenblock	2502	HKN
4976,0	2030	33333	UGA	R. Kampala	E	Lokal Rep. ID	0503	EAM
4980,3	0156	24322	CHN	Xinjiang PBS, Urumqi	MONGO	//5060,3 Ansagerin,TS	0103	HKN
4990,9	0518	14322	PRU	R. Ancash, Huaraz	S	Huayno Musik, Ansagen	2602	HKN
5003,4	0526	34433	GNE	R. Nacional, Batá	S	Sänger, ID um 05.30,	2602	HKN
5009,6	2118	24322	CME	R. Garoua	VN	Afrikanische Gesänge,	2602	HKN
5025,0	0535	34333	CUB	R. Rebelde, Bauta	S	Programa de cultura	2602	HKN
5027,1	0208	23322	PAK	Radio Pakistan, Quetta	URDU	Nx von einer Frau ID,	0103	HKN
5030,1	0541	34433	CTR	Dr. Gene Scott	E	ID, Predigt	2602	HKN
5035,3	0138	15322	B	R. Educacao Rural, Coari	P	Sprecher, ID,Folklore Musik	2502	HKN
5047,0	0549	44433	TGO	RTVTogolaise, Lomé	F	afrikanische Lieder, ID	2602	HKN
5050,0	2325	23333	CHN	Guangxi BS	VN	Talk von Frau, Gesang	0502	EAM
5050,0	2035	33333	TZA	R. Tanzania	VN	Folkl MX mit Trommeln	0503	EAM
5054,6	0555	24333	CTR	Faro d.Caribe,San José	S	Polit. Rep o.President.	2602	HKN
5060,4	0129	35444	CHN	Xinjiang PBS, Urumqi	MONGO	Chinesische Folklore, ID, Bericht ü. Vietnam	2502	HKN
5070,0	0122	34333	USA	WWCR, Nashville	E	Studiogespräch	2502	HKN
5090,0	1947	33223	CHN	CNR 2 TWN PX	VN	Folkl Gesang, Talk	0603	EAM
5290,0	2300	35433	RUS	R.Rossii,Krasnoyarsk	R	IS, ID, Nachrichten,	2102	HKN
5370,0	0231	34333	CLA	VO the Mojahed	FARSI	Rep Mojahedin, Jamm.	0103	HKN

Frequency	Time	SINPO	Country	Station	Language	Programme details	Date	RPT
5500,0	0340	35333	CLA	VO the Tigray Revolution, Mekele	TIGRIG NA	Politischer Beitrag von einer Frau //6315,0	2902	HKN
5640,0	0236	34433	CLA	VO the Mojahed	FARSI	Talk o. Iran, Jamming- station +5370 +5670	0103	HKN

SHORTWAVE

Frequency	Time	SINPO	Country	Station	Language	Programme details	Date	RPT
5825,0	0242	35444	USA	WEWN, Birmingham	E	"Hokus Pokus" von Dr. Gene Scott,	0103	HKN
5915,0	0454	25433	ISR	Kol Israel	A	Bericht über Parlament	0203	HKN
5915,0	0805	45444	SVK	R. Slowakei Intern.	D	Nachrichten, Kurorte	2202	HKN
5925,0	2220	35433	RUS	DW, Novosibirsk	D	Nachruf Hundertwasser	2102	HKN
5940,0	0247	45444	RUS	Vietnam Relay	E	Polit Talk o. Vietnam	0103	HKN
5970,0	0158	34333	CTR	REE Relay, Cariari	S	Schlager Musik, IS, ID	2402	HKN
5975,0	0406	35433	ATG	BBCWS, Antigua	E	ID, The World today,	0203	HKN
5985,0	2300	22322	CGO	VR. Congo	VN	Hi Life Songs, Talk	1002	ZL
6000,0	0347	45444	CUB	Habana Cuba	E	DXers unlimited	0503	HKN
6000,0	2224	32322	CUB	RHC Habana	S	Polit Talk ID	1002	ZL
6010,0	0348	44433	IRN	IRIB Teheran	AZERI	ID, Nachrichten	2202	HKN
6010,0	0411	44444	TUR	VO Turkey	E	ID, Mit dem Rucksack durch die Türkei //7240	0103	HKN
6015,0	0013	25433	THA	VOA, Udorn	TIBET	ID, Politisches Magazin,	2202	HKN
6020,0	0440	43433	G	VOA, Woofferton	SERBI	ID, Demokratie für den Kosovo	0203	HKN
6020,0	0020	44444	UKR	R. Ukraine Intern.	D	ID, Analphabeten Quote	2202	HKN
6025,0	0252	24333	DOM	R. Amanecer, Santo Domingo	S	Rel. MX, RCI (G) um 02.57 UTC	0103	HKN
6050,0	0325	34322	EQA	HCJB Pifo	S	Chor, Ansagerin, ID,	2202	HKN
6050,0	0535	24322	NIG	FRCN, Ibadan	VN	Hochwasserkatastrophe in Mosambik, ID	0303	HKN
6060,0	0308	43333	I	RAI Rom	D	News in Deutsch 03.11,	0103	HKN
6065,0	0230	43433	IRN	IRIB Teheran	S	IS, Nationalhymne,	2602	HKN
6070,0	0130	24322	CHL	Voz Christiana	S	ID als "R. Lux und Voz Christiana del Peru"	2402	HKN
6095,0	1939	44444	G	RTI Relay via Merlin	D	Blickpunkt China	2202	HKN
6095,0	1945	33333	G	R. Taipe Inter	D	ID, Chauolie Report	0403	EAM
6099,9	0544	44333	ALB	Radio Tirana	ALBAN	Hörspiel, ID, Tel. + Fax Nr., Schlager Musik	0103	HKN
6100,0	1730	44444	BIH	R. Jugoslawien	D	NX. Alban. Terroristen	0103	HKN
6110,0	0115	34433	ATG/ ASC	BBC via Antigua und Ascension	S	ID, Meldungen von Südamerika	2202	HKN
6110,0	0528	43433	CAN	NHK, Sackville	E	Politischer Beitrag über Taiwan //7230 (G)	0303	HKN
6110,0	0400	34333	RUS	Radio Rossii, Arkhangelsk	R	IS, ID, Nachrichten, Wetterbericht //6115,0	2902	HKN
6115,0	0244	44433	RUS	Radio Rossii, Moskau	R	Literatur Programm //5910 6110 7380	2202	HKN
6115,1	0105	23322	CLM	LV del Llano, Vill.	S	ID, news	2402	HKN
6135,0	0419	24322	AFS	BBC, Meyerton	P	IS ab 04.19, ID 04.30, Nachrichten, Magazin	0203	HKN

Frequency	Time	SINPO	Country	Station	Language	Programme details	Date	RPT
6135,0	2040	44444	FIN	R. Finnland	D	Deutsche Gemeinde	2602	HKN
6135,0	2308	43433	TUR	RTR Ankara	E	ID, Nachrichten,	2202	HKN
6140,0	1853	55444	D	Deutsche Welle, Jülich	E	ID, "Mainz bleibt Mainz"	2102	HKN
6150,0	0415	34333	CTR	Dr. Gene Scott, Cahuita	E	Predigt, University Network //9725	0203	HKN
6155,0	0435	44444	AUT	ROI Wien	D	Intermedia Nr. 153,	0403	HKN
6155,0	0125	35444	IND	AIR Delhi	URDU	Indische Folklore Gesänge, //9595	2202	HKN
6165,0	0317	44444	ATN	R. Nederland, Bonaire	S	ID, Hörerpostsendung, Rep. ü. "Panorama FM"	0103	HKN
6180,0	2344	44433	B	Radio Nacional do Amazonia, Brasília	P	Reaktiviert, Kultur PX	2802	HKN
6185,0	0312	24333	MEX	Radio Educacion	S	Mexikanische Folklore	0103	HKN
6190,0	2328	35333	D	DLF, Berlin	D	//153 207 756 1422	2302	HKN
6190,0	0152	34333	IRN	IRIB Teheran	URDU	ID, Politische Gespräche //6005 11880	2202	HKN
6280,0	2000	34444	LBN	King of Hope	E	ID, MX, Talk, Adr.	0403	EAM
6880,0	0231	35433	CLA	VO the Mojahed	FARSI	Polit.Talk ü. Iran,	0203	HKN
6890,0	0412	25433	USA	WGTG, McCaysville	E	(USB) Rel. Sendung,	2902	HKN
6900,1	1633	34433	SOM	Rahaweyn Resistance Army, Baydhabo	SOMAL I	Neue somalische Station, Stationsname	2402	HKN
6930,0	1850	35433	RUS	R. Rossii	R	ID, TS, 19.00 UTC	0303	HKN
6930,0	2135	35444	RUS	Radio Rossii	R	Russ. Schlagersängerin	2602	HKN
6975,0	0400	35433	CTR	RfPI	E	Glenn Hauser mit Continent of Media	0103	HKN
6975,0	0644	45433	CTR	RfPI	E	This way out - a Lesbian	2502	HKN
6975,0	2326	?????	USA	RFPI	??	PX Nelson Mandela,	1102	ZL
7075,7	0214	34333	CLA	Radio Takhar	DARI	Exakte Frequenz ist 7075,75 kHz,	2902	HKN
7105,0	2130	44333	BLR	Radio Minsk	D	ID, Schlager Sängerin	2602	HKN
7105,0	0122	44444	UZB	Radio Tashkent	E	Neue Frequenz, History of Uzbekistan, Adresse,	0303	HKN
7115,0	0211	43433	TUR	VO Turkey	UZBEK	ID, IS, türk. Presseschau	2902	HKN
7149,9	1120	45444	ALB	R. Tirana, Cerrik	VN	2. PX Homeservice	2801	WBS
7190,0	1942	44444	IRN	IRIB Teheran	E	Bericht über OPEC,	2102	HKN
7225,0	1930	33343	CHN	R. China Inter	D	Folkl. Gesang, Anns	0403	EAM
7260,0	2200	44333	PHL	VOA	KHMER	S/on, ID, IS, Reportage	2602	HKN
7270,0	0520	23322	GAB	RTV Gabonaise, Libreville	F	Afrikanische Folklore,	2402	HKN
7365,0	0014	44333	USA	Radio Marti	S	ID, Kultur Px für Kuba, Blubber Jamming	2902	HKN
7371,0	0612	24322	TUR	Turkish State Metrol. Service, Ankara	TÜRK	N F - ex. 6900 kHz, Non stop Folkl. MX	2602	HKN
7400,0	0600	44444	BUL	R. Bulgarien	D	Briefkastensendung (MI) //9400	0103	HKN
7405,0	2017	44444	CHN	CRI Beijing	ESPERA NTO	ID, Traditionen in China //7265 (Neu) ex. 9965		
7415,0	0025	44433	USA	WBCQ, Main	E	Bericht ü US Regierung	2902	HKN
7415,0	0210	34333	USA	R. Free New York via WBCQ, Maine	E	ID, your radio show, Beatles songs,	0503	HKN

Frequency	Time	SINPO	Country	Station	Language	Programme details	Date	RPT
7460,0	0234	34433	CLA	VO the Mojahed	FARSI	Polit. Bericht von Iran, keine Jamming Station	0403	HKN
7465,0	1034	25433	USA	WEWN, Birmingham	E	Predigt, Vater unser Gebete, ID, Anschrift	2602	HKN
7475,0	1930	44444	GRC	ERA Athen	D	ID, News, (1386:O=1)	2702	EAM
7484,0	1006	25433	PIR	R. Continental	E/HOLL	Adresse, eMail, englische Pop Musik	0503	HKN
7510,0	0324	35433	USA	KTBN, Salt Lake City	E	Gospel Sänger, Preist	2702	HKN
7520,0	1730	45444	MDA	R. International	PERSISH	Clandestine news	2701	WBS
7535,0	0944	35333	USA	Christ. Science	D	IDGlaubensbekenntnisse	2702	HKN
9355,0	0641	45433	USA	RTI Relay via WYFR	D	Blickpunkt China	0103	HKN
9370,7	0410	35444	USA	WTJC, Newport	E	Quiz, new Jerusalem	0503	HKN
9489,8	0448	33333	RUS	R. Rossii	R	ID, 05.00 Nachrichten	0503	HKN
9500,0	1510	45444	AUS	R. Austraila Sheppert.	E	News, Karen People	2701	WBS
9515,0	0249	44444	GAB	NHK, Moyabi	PERSI	ID, Magazin, Polit.Talk	2602	HKN
9525,0	0340	35433	AFS	Channel Africa	F	ID, Politische Reportage	2302	HKN
9525,0	1910	33233	SWZ	TWR (Relais)	F	MX , ID	1212	HGA
9535,0	0346	34333	CAN	Deutsche Welle,	E	ID, Sprachkurs "Deutsch	2302	HKN
9535,0	1905	33333	CHN	Chin Radio Inter	E	Inter News	1801	HGA
9550,0	0352	34333	CUB	RHC Habana	S	Gespräch ü. Costa Rica,	2302	HKN
9560,0	0335	44333	CAN	CRI Beijing,	S	Chinesische Folklore,	2302	HKN
9560,0	0038	43333	UKR	R. Ukraine Inter.	D	Bericht über Goethe	0503	HKN
9590,0	2248	45444	CAN	BBCWS, Montreal	E	ID, tropical music	2302	HKN
9615,0	2255	23322	B	R. Cultura, Sao Paulo	P	Brasilianische Folklore,	2302	HKN
9650,0	1130	22332	CAN	RKI Sackville	E	DX-PX, Letterbox	1601	WBS
9650,0	1137	24222	CAN	RKI Sackville	E	ID, Human Rights to KOR	2801	WBS
9650,0	2157	44333	IND	AIR Delhi	E	G.O.S., ID, Nachrichten,	2302	HKN
9704,2	0435	24322	ETH	Radio Ethiopia	VN	National Service,	2302	HKN
9725,0	2134	45333	J	NHK, Yamata	E	Around Japan, Talk	2402	HKN
9730,0	0137	43333	CLN	SLBC, Ekala	E	Back to the bible, Adr	2302	HKN
9730,0	0400	43333	GUF	CRI Beijing	E	ID, Nachrichten,	2302	HKN
9730,0	1609	23322	VTN	V. o. Vietnam	E	Intern MX	2212	HGA
9737,4	2240	33333	PRG	R. Nacional Asunción	S	ID, Fußballspiel	2302	HKN
9759,9	1110	45554	ALB	R. Tirana, Cerrik	VN	Homeservice PX	2801	WBS
9765,0	0600	45433	EQA	HCJB Quito	D	Familienmagazin	0303	HKN
9780,0	0850	44444	EQA	HCJB	E	Rel. PX	2012	HGA
9865,0	1145	22222	ROU	RRI Bucharest	VN	Homeservice, 50 Kw TX	2801	WBS
9955,0	1800	44444	TWN	RTI Taipei via WYFR	D	Nachrichten, heutiger Feiertag -	2802	HKN
9955,0	1830	45433	TWN	Radio Taipei Intern.	D	Musikszene Taiwan,	2302	HKN
9955,0	1800	44433	USA	RTI Relay via WYFR	D	"Reise durch Taiwan"	0103	HKN
9955,0	2340	32232	USA	WRMI	E	ID, Talk	1102	ZL
9965,0	1105	25222	BEL	RTBF Wavre	F	News,//621	2801	WBS
9970,0	0749	35433	BEL	RTBF, Wavre	F	NF- ex. 9965, ID,	2502	HKN
9985,0	1520	24222	ISR	KOL Israel	PERSISH	Lokal MX, //11605	2701	WBS
9990,0	1907	34433	EGY	R. Kairo	D	Deutsh in EGY, PX, ID	2702	EAM
9990,0	1907	34433	EGY	R. Kairo	D	Deutsh in EGY, PX, ID	2702	EAM
11375,0	0040	25433	CHN	CNR Minoritäten Service	VN	Wort PX v.Frau u. Mann //11630	0303	HKN
11550,0	0650	35444	USA	WYFR, Oakland	ITAL	Relig. Px, Chor, Adresse	2502	HKN
11650,0	1030	44433	MRA	KFBS Saipan	RUSS	Relig. PX	2801	WBS

Frequency	Time	SINPO	Country	Station	Language	Programme details	Date	RPT
11660,0	1515	45444	AUS	R. Austraila Sheppert	E	Karen People	2701	WBS
11660,0	1035	34333	GUM	KSDA Guam	E	Rep. Over Jesus	2801	WBS
11685,0	0230	24333	OMA	BBC, Masirah Islands	PERSI	ID, Tower, Nachrichten	2302	HKN
11690,0	0240	24333	CHL	Voz Christina	S	ID "La Voz de musica", südamerikanische Lieder	2302	HKN
11730	0410	3333	CHN	R. China Inter	E	Lokal News	2612	HGA
11735,0	0248	14322	IND	AIR Delhi	PASHTU	Politische Reportage,	2302	HKN
11740,0	0732	45433	CVA	Radio Vatikan	E	ID, Nachrichten, Kirche	2302	HKN
11760,0	0055	34333	CUB	RHC Havanna	S	Traditionen von Kuba,	0303	HKN
11765,0	1742	44444	IRN	IRIB Teheran	D	ex. 11775, Nachrichten,	0103	HKN
11784,8	2035	22332	INS	V.O. Indonesia	E	ID, News	2201	WBS
11810,0	0029	23322	KOR	R. Korea Intern.	JAP	Magazin, ID, korean. MX	0203	HKN
11815,0	0039	23333	B	R. Brasil Central	P	Sportreportage,	0203	HKN
11815,0	1150	25322	CTR	REE, Carari-Relais	S	//15170, News-Magazin	2801	WBS
11825,0	0212	25322	USA	RTI Relay via WYFR Oakland	S	Nachrichten, ID, Magazinteil	2302	HKN
11850,0	0744	25322	J	NHK, Yamata	JAP	ID, Gesprächsrunde	2302	HKN
11860,0	0050	35444	INS	RRI Jakarta	BI	Talk ü. EXPO 2000, ID	0203	HKN
11860,0	0035	25333	SNG	NHK, Singapore	E	ID, news comentary,	0203	HKN
11870,0	1050	44444	MRA	KFBS Saipan	CHN	Talk about German	2801	WBS
11875,0	0253	25322	CUB	RHC Habana	S	Politische Talk	2302	HKN
11890,0	0154	25333	CLN	NHK, Ekala	BENGA	ID, Politisches Magazin,	2302	HKN
11895,0	2219	25322	GUF	NHK, Montsinery	JAP	(J1) Magazin, r Musik,	2202	HKN
11905,0	0130	25433	CLN	SLBC, Ekala	HINDI	ID, Ansagerin, Folkl. MX	2302	HKN
11920,0	1055	33433	SNG	RAI (Relais)	ITAL	Jobless History	2801	WBS
11925,0	0301	15322	B	Radio Bandeirantes	P	ID, Nachrichten	2302	HKN
11954,7	1850	23222	AGL	R.n. De Angola	P	News	2701	WBS
11965,0	0120	25433	CLN	DW, Trincomalee	BENGAL	Deutsche Innenpolitik,	2302	HKN
11980,0	2317	23322	EQA	HCJB Quito	D	Relig. Px, ID	2202	HKN
11980,0	1059	43333	GUM	CHN	CHN	Adr. I. HGK, ID in E	2801	WBS
12015,0	0310	25422	EQA	HCJB Quito	E	Religiöses Programm	2302	HKN
12065,0	1101	24222	RUS	RNW Irkutsk	E	Congo, We Afr. Report	2801	WBS
12256,4	0905	25322	PIR	Wrekin Radio	E	Song "Yellow river", ID, englische Pop Oldies	2702	HKN
13610,0	2341	25322	SYR	R. Damascus	S	Nachrichten, ID, O = 4	0103	HKN
13615,0	2349	24322	USA	WEWN Birmingham	E	Px Nr. 963, Hörerfragen	0103	HKN
13640,0	1907	34433	???	V. O . A	E	Talk about Plants	1202	HGA
13749,8	0000	15422	CTR	Dr. Gene Scott, Cahuita	E	Adr. California, ID, Predigt,	0203	HKN
13795,0	0009	25433	IND	AIR Delhi	TAMIL	Nachrichten, ID //4790	0203	HKN
13830,0	0015	25333	???	Radio Free Asia	LAO	Politisches Magazin //11830 (SLK)	0203	HKN
13845,0	0020	15322	USA	WWCR Nashville	E	Relig. Px, Predigt von einem Mann	0203	HKN
15100,0	2230	25333	CHN	CRI Beijing	C	IS, ID, Nachrichten,	0103	HKN
15110,0	0635	35444	KWT	Radio Kuwait	E	ID, It's Jazz time, TA	2402	HKN
15125,0	1555	23332	CHN	R. Cina Inter	E	Talk about Industri	2212	HGA
15149,9	1800	45444	INS	Stimme Indonesiens	D	ID, Nachrichten,	2902	HKN
15160,0	1603	33433	ALG	RTA Algier	E	MX und ID	1902	HGA
15170,0	2335	25433	USA	WYFR Oakland	S	ID, Rel. MX, ID //17845	0103	HKN
15215,0	0450	25433	AFS	Channel Africa	F	Journal de Africa, ID,	2302	HKN

Frequency	Time	SINPO	Country	Station	Language	Programme details	Date	RPT
15215,0	2352	25433	USA	WYFR, Oakland	S	ID, relig. Px, Adresse,	2302	HKN
15225,0	1330	25333	GUM	KSDA, Agana	E	WAR Wavescan #271,	0503	HKN
15255,0	2204	15422	IRL	Reflection Europe	E	(0,2 kW) Predigt, ID,	2702	HKN
15255,0	1635	44444	UAE	VO UAE, Abu Dhabi	A	Neue Frequenz ex. 15265	2802	HKN
15305,0	2250	25322	???	VOA (kein Standort bekannt)	E	ID Musical songs, Hilfe für Menschen in Afrika	0103	HKN
15345,0	2305	24333	ARG	RAE Buenos Aires	S	Nachrichten, politik, ID	0103	HKN
15410,0	2311	35444	ATG	DW, Antigua	D	WISO, Bericht CEBIT 2000 //17860 (RRW)	0103	HKN
15425,0	1500	32322	CLN	SLBC Colombo	E	Bomb Blast ??	2701	WBS
15550,0	2100	35333	EQA	HCJB Quito	D	1.Johannes Brief //12025	0103	HKN
15560,0	2310	15322	MDG	Radio Nederland	HOLL	Sport //7280 (SNG)	2302	HKN
15575,0	2000	35333	TWN	RKI Taipei	D	81. Jahrestag derUnab hängigkeitsbewegung	0103	HKN
15590,0	0811	25322	J	NHK, Yamata	JAP	(GAB) O = 2; //17650 (ASC) O = 4	2302	HKN
15665,0	1901	33433	USA	WSHB	E	Bibel Lektion	1801	HGA
15785,1	0735	25322	ISR	Galei Zahal	HEBRE	Nachrichtenblock	2502	HKN
17485,0	0905	35433	IND	AIR Delhi	INDON	ID, //15780 O = 2	2302	HKN
17580,0	0914	25433	CHN	CNR 1	C	Klare ID, //17605 O = 3	2302	HKN
17620,0	2315	35444	GUF	RFI Relay	S	Politisches Magazin, ID	0103	HKN
17680,0	2321	35333	CHL	Voz Christiana	S	Studiogespräch ü. CLM	0103	HKN
17690,0	0839	33343	NZL	R. News Zealand	E	Sozial Talk	1112	HGA
17710,0	0840	35444	I	Radiodue	ITAL	(HS) ID, Schlager MX	2302	HKN
17735,0	0921	25433	CHN	CRI Beijing	INDON.	Magazin, c/d 09.27	2302	HKN
17750,0	0846	34333	AUS	Radio Australia	E	VorstellungAustralischenfil m	2302	HKN
17759,8	1335	34322	ARS	BSKSA	A	//15380,holy Quran	2701	WBS
17820,0	0852	25322	CLN	NHK, Ekala	PERSI	ID, c/d 09.00	2302	HKN
17820,0	0929	25433	CLN	Deutsche Welle, Trincomalee	E	Bericht über Indonesien //17800 (RRW) O = 2	2302	HKN
17824,8	0940	34333	ROU	Romania Actualitati	RUMÄN	Schlechte Mod. //15105	2302	HKN
17845,0	2328	25322	USA	WYFR Oakland	S	Relig. Px, Predigt	0103	HKN
17860,0	0804	15321	J	NHK, Yamata	JAP	(J1), Nachrichten, ID,	2302	HKN
21470,0	0954	43333	SEY	BBCWS	E	Sports round up,	2302	HKN
21555,0	1450	35333	CLN	V.o.A. Iranawila	E	ID, 1500 C/D all QRG's	2701	WBS
21820,0	1300	25222	AUS	R. Australia	E	News 1314 Tennis	2701	WBS
21945,0	1330	25222	RUS	DW Irktsk	D	Culöurt report	2701	WBS
25740,0	1315	35322	D	DW Wertachtal	D	Cultur Compact	2701	WBS
25930,0	1325	25332	CTR	RFPI Ciudad Calon	E	Union Organaizing	2701	WBS

OVERSEAS LOGBOOK*with loggings from North America/Canada*

Frequency	Time	SINPO	Countr.	Station	Language	Programme details	Date	RPT
6055,0	0514	443	E	REE Madrid	E	Paparamo Spezial 1999	0901	RL
7344,0	0210	433	CZE	R. Prag	E	Letter on Darkness,WX	2201	RL
7385,0	0458	353	USA	WRMI	E	Viva Miami, TALK	2201	RL
7535,0	2255	534	BUL	R. Bulgarien	E	Verif. Corner R. Lemke	2301	RL
7545,0	2240	353	BUL	R. Sofia	E	Letterbox	0901	RL
9495,0	0330	554	S	RSI Stockholm	E	In Touch with stockholm	0301	RL
9655,0	0311	534	FNL	R. Finnland	E	Wild Tailed Eagle, ID	1901	RL

Frequency	Time	SINPO	Countr.	Station	Language	Programme details	Date	RPT
9655,0	2324	554	TUR	V.o. Türkei	E	Letterbox	1901	RL
9665,0	0057	453	J	NHKworld Radio	E	Hello from Tokio	1001	RL
11615,0	1651	353	F	RFI	E	Club 9516	1601	RL
11705,0	0058	433	J	NHK World	E	Internet & Radio	2401	RL
13670,0	1043	453	BEL	R. Vlaanderen Inter	E	Tourismus & Brüssel	1601	RL
17865,0	0534	453	AUT	RÖI	E	Mailbox Px,	0901	RL

with loggings from Asia/India and Russia

Frequency	Time	SINPO	Countr.	Station	Language	Programme details	Date	RPT
153,0	0351	33433	ROU	RR1	VN	OM Talk	2501	OS
162,0	2310	?????	RUS	GTRK Krasnoyarsk	VN	Tsentr Rossi //216	2401	OS
177,0	0005	44333	D	DLR Berlin	G	OM Talk, ID, WX	2501	OS
252,0	2115	43333	ALG	RTA Algier	E	News und PX	1701	AKI
594,0	0210	44444	RUS	GTRK Utmurtia	RUS	ID, WX	2501	OS
666,0	1900	43333	BLR	R. Vilnius	E	PX on Belorussian	1801	AKI
801,0	1745	44444	D	Bayr. Rundfunk	D	Wort PX	1701	AKI
918,0	2130	44444	SVN	R. Slovenia	E	News	1801	AKI
1179,0	1830	32222	S	RSI Stockholm	E	News	1701	AKI
1314,0	1153	23322	KOR	UNID	VN	OM Talk KoreanMX	2101	OS
1341,0	0148	23342	KAZ	Kazach Radio 2	VN	Talk by OM	1601	OS
1557,0	1201	35343	TWN	WYFR	MAND.	ID Gospel Mx//6300	2101	OS
5910,0	1830	43333	BEL	R. Vlaanderen Inter	E	Talk PX	1701	AKI
5940,0	0335	43333	RUS	V. o. Russia	E	PX on Amerika	1801	AKI
6000,0	1810	44444	POL	Polish Radio	E	Px over Krakow	1701	AKI
6155,0	1730	43333	AUT	R. Austria Intern.	E	Rep. From austria	1701	AKI
7160,0	0340	44444	ALB	R. Tirana	E	News PX	1801	AKI
15140	1059	22542	RRW	DW Ruanda	E	Jingle ID	2101	OS
15185,0	1138	45544	IND	AIR Dehli	E	ID, News, MX by OM	2101	OS

Dies ist mein erstes Logbuch im WWDX- DX-Magazin. Ich hoffe, daß man mir die anfänglichen Fehler nachsieht. Diese Rubrik betreue ich nur so lange, bis OM Michael Bethge einen dauerhaften Nachfolger hat. Meiner Meinung nach kann das maximal 4-5 Monate dauern. So lange müßt Ihr liebe Hobbyfreunde mit mir vorlieb nehmen. Damit Ihr euch draussen in der Hobbywelt ein Bild von mir machen könnt, stelle ich mich kurzer Hand mit einem Bildchen vor.

This is my first logbook in the DX MAGAZINE of WWDXC. I do hope that you will excuse my initial mistakes. I shall compile this section until OM Michael Bethge has found a new permanent editor for this section, which might take a maximum time of 4-5 months. Until then you will have to put up with me. To introduce myself, you will find a photograph of me on the right.



Thanks a lot for your contribution :

- AD : Alan Davies, Agra, India
- AKI : Ashok Kumar Bose, Calcutta, India, Siemens RK 759, 7m. Lw. Teleskop
- AQ : Al Quaglieri, Albany, NY, USA
- DC : Daniele Canonica, Switzerland – JRC-535 + LW antenna and MLB.
- EAM : Eberhard Ahl, Mainz, Germany - Kenwood R-5000, Ant. 25m Lw mit Balun
- EBC : Camillo, Etere Radioascolto, Teramo, ITALY - Kenwood R-1000, Ant.: Megaloop 100 metres
- HKN : Hans-Joachim Koch, Niddatal, FRG–AOR AR7030, 20m Lw, window antenna.
- HO : Hironao Oguma, Japan – Sony ICF-1000T, AOR AR7030.

HGA : H.V. Gelder, Arnhem, Netherlands, NRD 525, 12,5 m., Lw. + Balun
 MH : Mark Humenyk, Weston, Ontario, CAN – Magnavox D2935 w/Alpha Delta DX-SWL sloper.
 OS : Oleg Shevelyov, Kurgan, Russia – (Ural Region - 56° North / 65° East)
 RL : Richard Lemke, St Albert, Alberta, CAN – JRC NRD-535 HF w/random longwires.
 WBS : Wolfgang Büschel, Stuttgart, Germany, AOR 7030, Sony ICF 2010, Kenwood R-1000,
 FRT 7700, 12m. Lw.
 ZL : Zacharias Liangas, Thessaloniki, Greece, LOWE HF150, Sony ICF7600D, Yupiteru
 MVT7100

73's from your editor,

Eberhard Ahl



☆☆

HARD-CORE-DX EXPANDING TO THE WEB

The World's best community for DXers is getting even better. Together with the Nordic Shortwave Center, the Hard-Core-DX list is launching a top notch DX web site. "By joining forces we are able to offer all DXers better information", says Hard-Core-DX list manager Risto Kotlampi.

The Hard-Core-DX list started as one of the earliest hobby lists back in 1995. It soon grew into a fast, informal, and highly informative DX channel. "I hoped for fast DX news, and got a unique DX community as well", says Risto Kotlampi. "We now have more than 500 DXers subscribing to the list. The discussions are very lively and, thanks to the members' good sense and some moderation, this makes the list one of the best sources for DX news."

A mailing list still lacks the major strengths of the Web: continuity, in-depth analysis and constant availability. "So how can one better serve this knowledgeable, and demanding, community than by offering a unique Hard-Core-DX.com web site", says Hermod Pedersen, manager of the Nordic Shortwave Center web, established in 1995. The Nordic Shortwave Center focuses on breaking DX news, with an addition of in-depth information on Latin American DXing and receiving antennas. All of this is to be incorporated into the Hard-Core-DX.com.

At the core of the new joint venture will still be the popular mailing list. "We are not going to change anything about the mailing list. It belongs to its members", explains Risto Kotlampi. "What we hope to achieve is to give everybody a DXing community on the web as well. We have no resources of making these things ourselves, it is all those members who make it what it is."

Thus the material on both the Hard-Core-DX mailing list and the Hard-Core-DX.com web site is offered free to everybody, without any other obligation than proper credit. "We offer a platform, a community. You bring what you have to share. It will give us all lots of news and lots of knowledge."

Go have a look at: <http://www.hard-core-dx.com/>

☆☆

Major Changes Advocated by High-Level Reform Panel To Re-engineer ITU For The Future

Geneva - A 27-member Reform Advisory Panel, comprised of ministers and other senior government officials, industry CEOs, regulators and operators, met in Geneva today to agree on the

key principles that should guide the reform of ITU. Set up by ITU Secretary-General Yoshio Utsumi to advise him on how to chart the future of ITU, the group put forward a series of wide-ranging recommendations.

Seeking the views of top level representatives from a cross-section of converging industries - the Internet, entertainment and media, telecommunications and information technology, marked a radical departure from traditional approaches. "Achieving the goal of transforming our organization into one which can serve the membership well in the changing telecommunications environment is our aim" Utsumi said.

The Reform Advisory Panel (RAP), placed under the able chairmanship of Maria Livanos Cattai, Secretary-General of the International Chamber of Commerce, had the mandate to provide clear guidance and recommendations for ITU's reform.

All members, participating in their personal capacity, agreed that the ITU had played a useful role in the past in laying the foundation of what has become today a US\$1 trillion industry. They also agreed that it still has a key role to play in the future if it is prepared to fundamentally transform itself. "Given its overall legitimacy on a global scale, it is important that it be not condemned to irrelevance" Cattai said.

The discussions focused on eight areas on which the Panel made broad recommendations for change. The areas range from the very nature of the organization, its mission, its stewardship of scarce resources to policy development and coordination and the role of ITU as a neutral third-party. They also cover ITU working methods and management including TELECOM events.

The first recommendation on which the Panel agreed is that the ITU should become a truly public/private sector partnership to preserve and strengthen its international credibility.

While the form of this new form of partnership needs to be defined, the new ITU should reflect today's competitive telecommunication marketplace where the private sector plays a lead role while regulators act as arbitrators for the wider public interest.

In policy-related areas, the scope of ITU's role as an international focal point for the discussion of telecommunication policy and regulatory affairs was considered key in tomorrow's ITU. Swiss regulator Ofcom strongly argued in favour of ITU providing a global forum for regulators to meet and discuss issues of mutual concerns. "I can easily meet my counterparts in the European Union", he said "but where do I meet the US FCC, Anatel or regulators in Asia?" he asked.

In addition to providing a forum where national regulatory authorities from around the world could discuss key issues and obtain input from those to be regulated, ITU should become a think-tank for collecting and collating best practice regulatory policies and act as a repository for benchmarking in its area of expertise.

Policy work currently divided in ITU's three sectors and in the General Secretariat with the resulting lack of coherence, should be combined to create a centre for regulatory expertise. The Panel also agreed that ITU's role as global facilitator in regulatory and policy matters should be strengthened.

Another area where the scope of ITU's role could be expanded is in the field of dispute settlement. While stressing that the issues of dispute settlement were complex ones, the Panel considered that ITU was well placed to provide governments and the private sector with a neutral and effective mechanism to resolve disputes which are international in nature.

ITU's role in Internet governance was a cornerstone of the reform agenda. While it was recognized that the Internet had evolved without formal structure nor government regulations, the question as to whether it could continue the same way in the future was raised. As the Internet itself is branching into telecommunications, whether in voice telephony, mobile communications or digital broadcasting, there was clearly a role for the ITU on the Internet scene.

"We are moving to a world where bandwidth will be plenty, accessible to all and where data and voice together with wireless technology and e-commerce platforms will all combine in an all-pervasive communication system" said Nobuyuki Idei, Chief Executive Officer of Sony Corporation.

On this new multimedia planet, "ITU is bound to have a role but it must dramatically change" said Internet Society Chief Executive. At the same time, ISOC acknowledged that the ITU could provide international credibility to initiatives developed by the private sector and other bodies.

While there was agreement that the ITU should not intervene on issues outside its core expertise such as content, there was broad consensus on the useful role that ITU could play in its areas of competence to help reconcile different national policies and rules that might hamper the growth of the Internet and e-commerce.

On the management front, the Panel felt that accountability for running the ITU should rest with the Secretary-General who should be given greater authority and responsibility for the operation of the Union. It felt that a new process for the efficient nomination and approval of senior officials needed to be put into place. The private sector members of the Panel, strongly supported by some of their other colleagues, recommended that the Secretary-General propose a slate of candidates to be appointed by the appropriate bodies - taking into consideration the need for a high level of skills and for geographic balance.

To push forward the reform process, the Panel proposed that a specialized group be appointed to produce concrete recommendations against fixed deadlines for deliverables.

The RAP recommendations will be submitted to the next meeting of the ITU working group on ITU Reform which meets early April.

☆☆

THE EAGLE THAT BECAME A SWAN

In the September 1997 issue of the Electronics Now magazine there was an interesting article about the early days of RL/RFE. The article was written by Stanley Leinwoll, who worked for the VOA from 1952-1957, then joined RFE. In 1975 he became Director of Engineering for RL/RFE. So, what he writes is "inside" information.

In the chapter "The Eagle That Became A Swan" he tells how in 1953 RFE put a mobile 50 kW mw transmitter, code named Eagle, on the air. It was located in Germany near the Czechoslovak border and operated on 854 kHz. This frequency was earlier used by AFN Berlin, but they moved to another frequency enabling RFE to operate. Romanian Radio Bucharest also used this frequency and heavily protested RFE using same channel. Also Czech jamming on 854 was severe. So the transmitter was closed down in 1956 and put into storage in Bremen for several years. Later (59-60 I think), the transmitter still inside its van was shipped by CIA to Swan Island in the Caribbean. There it became "commercial" Radio Swan, later Radio Americas. After eight years, in 1968, Radio

First assume an antenna slope of 90° (your antenna is in vertical position) and the waves coming in with an elevation angle of 45° from all sides (0° to 360°) with constant power. The following diagram generated by the program HFANT will show you a plot of the azimuthal characteristic. For better understanding of the plot, imagine this: you are standing at the bottom of your antenna at top of your receiver, raising your head 45 degrees high and then turn around your body clockwise from 0 to 360 degrees. If your eyes could measure the signal strength, then you would "see" what your antenna "see". Take a sheet of paper and draw your measurements, you will get the azimuthal characteristic of your antenna.

As shown in the diagram no. 1, your vertical telescopic antenna prefers no direction - but this is a fact, you sure knew before you saw this fact here. Now assume an antenna slope of 45° towards the 0° marker of the circle around your receiver in the horizontal plain. The radio waves coming in again from every direction (0° to 360°) with an elevation of 45° high. Imagine the funny situation, you are a radio wave - looking from 0° (but 45° high) at the antenna you will see a point (the top of your antenna), but looking from the 180° direction you will see the whole antenna length. Viewing from 90° and 270° direction the antenna is a diagonal. The question is, what does it mean to the azimuthal characteristic of your antenna. Now your telescopic antenna is directional sensitive, diagram no. 2. So your build-in antenna is not always a "straight stupid" piece of wire. By the way, here is a tiny handsome table of dB (Dezibel) for better understanding of the antenna diagrams :

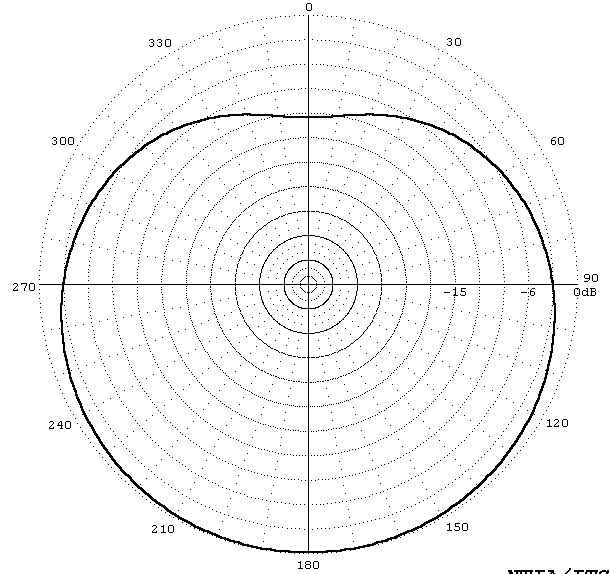
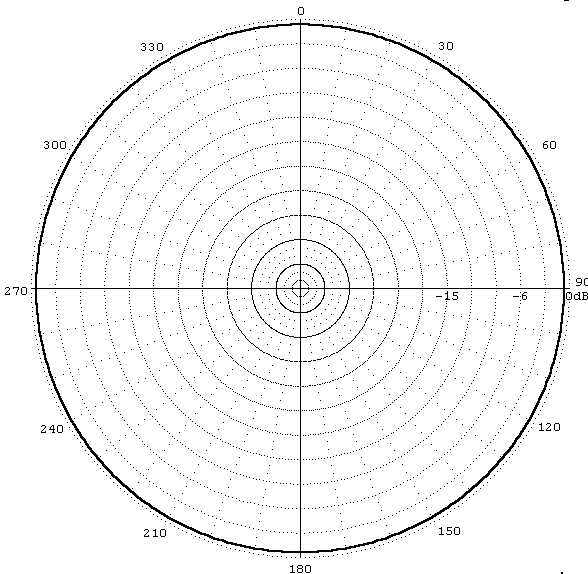
dB	0	3	6	9.5	12	15	18	20	29.5	32	34	38	40
Factor	1	1.41	2	3	4	5	8	10	30	40	50	80	100

Ok, it is better to use the antenna not in the vertical position. Will there be an improvement to decrease the slope much more? No! The azimuthal diagram at 0° slope (horizontal) of antenna will show you the same as diagram no.1. There is no directional sensitivity, but the antenna gain is a little bit lower than in vertical position. So let us close the discussion: Best non-directional way is to use the build in telescopic antenna in vertical position. Best way to use directional is to bring the antenna in a 45 degrees slope position. Last not least, next time we have to investigate the following questions: Is there a dependency to frequency (yes it is, all diagrams shown here calculated at 10 MHz)? Is there a dependency to length of antenna (yes it is, all diagrams shown here calculated at length 0.5 m)? Does an antenna have also a vertical characteristic (yes)? So there will be another part about receivers build-in telescopic antenna.

Azimuthal Pattern at Elevation : 45.0 deg

Azimuthal Pattern at Elevation : 45.0 deg

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Azimuthal diagram no. 1 - antenna slope 90°

Azimuthal diagram no. 2 - antenna slope 45°

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