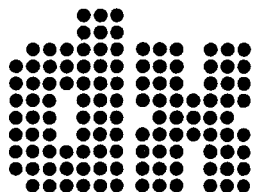


8/9 - 2019 € 3,00

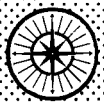
BBC ORTF
ADIO MOSKOU
NDR RAI TVR



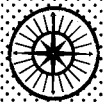
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WORLD WIDE DX CLUB



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

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

- WORLDWIDE DX CLUB homepage in the Internet: <<http://www.wwdxc.de>>
- Weekly "TopNews" by Wolfgang Büschel: <<http://topnews.wwdxc.de>> (available free of charge by eMail to our members on request)
- Archive copies of DX MAGAZINE (PDF) since the year 2000: <<http://online.wwdxc.de>>



ParsToday, Tehran - QSL card from German Service via Siegbert Gerhard, Germany

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DX MAGAZINE No. 8/9 ■ Vol. LIV ■ August/September 2019

Hello again,

Welcome to the annual summer double issue of our DX MAGAZINE. Like in the past years you will find our normal monthly sections, some articles, and our annual "List of Members". *Please notice that our "List of Members" is only sent to our members - not to non-members, radio stations or other clubs.* I have also included Wolfgang Büschel's latest list "SWL / Media Programs in English, German & Spanish" and Walter Eibl's "English Schedules - Hörfahrplan Englisch". I hope that you will enjoy this double edition and wish you a nice and sunny August and September.

And with this best wishes and good DX until October from

NEWS ABOUT BROADCASTING (+other) STATIONS

Editor: WALTER EIBL ■ eMail: <news@wwdxc.de>

ARGENTINA / U.S.A. - WRMI relay broadcasting times of RAE Buenos Aires programs as updated by wb according to monitoring around July 17 / 18:

Language	Time UTC	Date UTC	kHz	Target(s)
English	0100-0130	Tue-Sat	9395	North America
Japanese	0800-0900	Tue-Sat	5950	North America (West), Asia
Chinese	0900-1000	Tue-Sat	5950	North America (West), Asia
Portuguese	1100-1200	Mon-Fri	9955	Latin America
Italian	2100-2200	Mon-Fri	9395	North America, Europe
Spanish	2200-2300	Mon-Fri	5010	North America, Europe
German	2200-2300	Mon-Fri	7780	Latin America
French	2330-2400	Mon-Fri	7780	North America, Europe

(wb df5sx, wwdxc BC-DX TopNews dxld July 18)

ARMENIA - Reception of FEBA Radio via ENC-DMS Yerevan Gavar, August 3:
1730-1800 7510 ERV 300 kW 192 deg to Eaf Silte, weak/fair.

Trans World Radio India in via GJSC Yerevan Gavar on August 6:
1315-1330 9910 ERV 300 kW 100 deg to SAs Maithili Mo-Fr, good.

Trans World Radio India via GJSC Yerevan Gavar on August 7:
1315-1330 9300 ERV 300 kW 100 deg to SAs Kurux Wed-Fr, good.
(Ivo Ivanov-BUL, hcdx & dxld via wwdxc BC-DX TopNews Aug 3 / 4 / 6 / 7)

Reception of Trans World Radio India via GJSC Yerevan, August 17:
1530-1600 on 9300 ERV 300 kW / 100 deg to SAs English Sa/Su, good signal

BVBroadcasting BVB via Yerevan on August 18:

4

1830-1930 on 6130 ERV 100 kW / 330 deg to EEu English Su, weak/fair
(DX MIX 1144)

AUSTRIA (non) - Reception of Radio DARC#235 via ORS Moosbrunn, August 18:
0900-1000 on 6070 OE 100 kW / non-dir to CEu German Su, good signal
(DX MIX 1144)

AUSTRALIA - 9610 kHz, on August 7 at 1302 UT, South Asian song W&M duett at S3-S5, but I bet it's a gospel huxter trying to ingratiate itself with victims: Yes, HFCC shows RBA Kununurra, in Tamil this semihour daily, but don't you believe it's that simple. EiBi shows 5 different languages, depending. First half on Wednesdays is in MALalayam. (gh, hcdx Aug 8; did insert by wb for TopNews website: 'kHz and UT' for the clarity and clarification of a larger audience)

BANGLADESH - 4750 kHz, Bangladesh Betar, Aug 8, with transmitter problems; at 1235 UT, heard a hum (no English audio) and at 1325 UT, still only hum (no Nepali audio); of course CNR1 was also there. First time I have heard this BB anomaly. (Ron Howard-CA-USA, direct and wor dxld via wwdxc BC-DX TopNews Aug 8)

It is the time of monsoon ... the second tx is already down. (we)

BOLIVIA - 3310 R. OEOJ CHASKI. Julio 23. 2324-2334 UT. Hombre habla en idioma quechua y luego avisos comunitarios en el mismo idioma. SINPO: 35433.

6135 R. SANTA CRUZ. Julio 23, 2318 UT. Noticias de patrimonio cultural jesuita. SINPO: 54554 con interferencia de otras emisoras. (Claudio Galaz-CHL, hcdx July 23 - 28)

BRAZIL - Two Brazilian co-channel in rather "empty" 60 mb range, noted at 06.30 UT on Aug 10,

4885.015 somewhat little stronger at S=6 in Cape Canaveral-FL (likely R Clube do Para program ?) and same co-channel

4885.024 S=3-4 tiny signal too. ... and a lot of CODAR signal 'scratches' nearby in range 4736.0 - 4763.3 kHz, and 4885.8 - 4913.6 kHz.

9665.571 kHz on upper side flank now Brazilian station sermon heard in central Europe post, at 07.08 UT on Aug 10, NOT FIX FREQU., variable 15 - 20 Hertz moved around up and down.

[selected SDR options, span 12.5 kHz RBW 15.3 Hertz](wb df5sx, wwdxc BC-DX TopNews Aug 10)

CHINA - CNR1 DRM mode transmissions:

Beijing #572 13825 kHz 0100-0900 (ex 13850 kHz)
6030 kHz 2025-1805

Dongfang #871 17770 kHz 0100-0900 (ex 15580 kHz).
11695 kHz 0100-0900

Kunming #501 15180 kHz 0100-0400 (ex 17790, 21550 kHz)
17800 kHz 0400-0800 (ex 17790, 21550, 15250 kHz)
15180 kHz 0800-1100 (ex 17790, 9540 kHz).

Qiqihar #2021 13850 kHz 0000-0400 (ex 0030-0630 17800 kHz),
11990 kHz 0400-0900 (ex 0630-0900 15735 kHz),
13710 kHz 0900-1200 (ex 9870 kHz).

Urumqi #523 17830 kHz 0100-0800 (ex 13850 kHz)
9655 kHz 2200-0100, 0800-1200

(WRTH Supplement July 5; update by wb, Aug 06)

CHINA RADIO INTERNATIONAL (CRI) (Gov) Chinese*
0400-0430 daily EAs 15320bjj (add)
0400-0600 daily EAs 11640bei (add)
0900-1000 daily EAs 15465bjj (add)
1000-1030 daily EAs 9735bjj, 15270uru (add)
1000-1230 daily EAs 6105qiq (add)
1000-1300 daily EAs 7300bjj (add)

1000-1400 daily EAs 11640kas (add)
 1000-1600 daily EAs 6180fuz, 9660fuz (add)
 1100-1400 daily EAs 9680kun (add)
 1200-1230 daily EAs 9735qiq (add)
 1300-1400 daily EAs 6105qiq (add)
 1400-1700 daily EAs 6075bei, 6145xia (add)
 1500-1700 daily EAs 7300bjj (add)
 1500-1530 daily EAs 11605qiq (add)
 2200-2400 daily EAs 6075xia, 6105qiq, 9900dof (add)

Key: * Relays of CNR-1, used to jam RTI Chinese & Cantonese.
 (WRTH Update, amended #3 July 31 from PDF file and via dxld Aug 7)

CUBA - 5025even R Rebelde Spanish talk discussion on Colombia theme, S=9 or -74 dBm strength in Detroit MI state. 23.30 UT Aug 10.

5040even RHC Bauta talk in English on SW Radio and Cuban journalists, at 23.35 UT RHC worldwide web address given. S=9 or -76dBm strength.

5990even CRI Cuban relay site from Quivican San Felipe TITAN bcst center - today excellent audio feed at 23.51 UT, S=9+20dB or -55dBm signal into Michigan state, talk on American media ...

[selected SDR options, span 12.5 kHz RBW 15.3 Hertz](wb df5sx, wwdxc BC-DX TopNews Aug 10)

DENMARK - World Music Radio (WMR) is now broadcasting on 15805 kHz (Saturday-Sunday 07-20 UT) with 200 W into a 3 element yagi beamed south for DXers in Southern Europe, Central Europe (however sometimes the signal will skip over), Northern Africa and perhaps also the Middle East.

Reception reports are welcome at this address: wmr@wmr.dk - or by snail mail (please include return postage for a QSL-card) to:

World Music Radio, P.O.Box 112, DK-8960 Randers S+, Denmark, Europe.

Besides 15805 kHz, WMR continues broadcasting on 5840 kHz (24 hours a day - 7 days a week) with 100 W into an inverted V aerial. Transmitter site for 5840 and 15805 kHz is Randers, Denmark.

(Stig Hartvig Nielsen, World Music Radio - <<http://www.wmr.radio>> (hcdx Aug 24))

E'SWATINI {SWAZILAND} - 6129.99 kHz TWR Manzini, in Portuguese / Kimbundu (from 1950 UT) 22 July, at 1923-1955 UT man religious talk, reading many excerpts from a religious book (ment. Cristianismo, igreja primitiva, Deus, palavra de Cristo, genealogia de Jesus Cristo, Sao Lucas, Israel, Mesopotamia, farao, Egito, filha do farao, livro de profetas, idolatria, Babilonia, etc.), till 1946:13" UT, women rel. chant, man announcement, ment. addresses, phones, ID (Trans Mundial), choral chant with instrumental music, IS once at about 2150 UT, into program in Kimbundu, two men announcements (ment. Kimbundu), with two IDs (Radio Trans Mundial), music pause, choral chant, man religious talk; better in ssb, ceaseless fast qsb and moderate qrn, good.

(Gianni Serra-ITA, direct, and via dxld July 25)

FRANCE - Reception of Radio France International, August 20:

0430-0500 on 9655 F 500 kW / 140 deg to ECAf Swahili, good signal

Reception of Radio France International, August 20:

0530-0600 on 11790*F 500 kW / 140 deg to ECAf Swahili, good signal

* co-ch weak 11790 YAM 300 kW / 330 deg to FERu Russian R.Japan NHK.

Reception of Denge Welat via TDF Issoudun, August 19:

0230-0500 on 9525 F 250 kW / 090 deg to WAs Kurdish, very good

0500-0600 on 11530 F 250 kW / 090 deg to WAs Kurdish, very good

Reception of TDA Telediffusion d'Algerie via TDF Issoudun, August 20:

0400-0459 on 6050 F 500 kW / 162 deg to CEAF Arabic Holy Quran px, good signal

0503-0510 on 6125 F 500 kW / 194 deg to NWAf French news bulletin, fair signal

0503-0510 on 9535 F 500 kW / 162 deg to CEAF French news bulletin, good signal

(DX MIX 1144)

FRANCE / VATICAN STATE - Eye Radio is again on shortwave via TDF Issoudun relay site, July 29:

1600-1700 15410 F 250 kW 139 deg to EAF Juba Arabic* Mo-Fr

* including other langs English/Dinka/Nuer/Shilluk/Bari/Zande/Lutoho

Acc to IBB RMS Eye Radio is again on SW effective from July 22

(Ivo Ivanov-BUL, hcdx & dxld via wwdxc BC-DX TopNews July 29)

Eye Radio is again on SW via Santa Maria di Galeria, Vatican State, on July 30:
0400-0500 7340 SMG 250 kW 150 deg to EAF Juba Arabic* Mo-Fr
* including other langs English/Dinka/Nuer/Shilluk/Bari/Zande/Lutoho.

According to IBB RMS Eye Radio is again on SW effective since July 22.
(Ivo Ivanov-BUL, hcdx & dxld via wwdxc BC-DX TopNews July 30)

GERMANY - DW-RADIO - Schedule A19 - Subject to change

Short Wave Frequencies - valid from March 31st to October 26th, 2019 Schedule of August 13th, 2019

AMHARIC	1600-1700	13770	DHABAYYA	Ethiopia	daily	31.03.19-26.10.19	
AMHARIC	1600-1700	15275	ISSOUDUN	Ethiopia	daily	31.03.19-26.10.19	
AMHARIC	1600-1700	13770	DHABAYYA	Ethiopia	daily	31.03.19-26.10.19	
AMHARIC	1600-1700	15275	ISSOUDUN	Ethiopia	daily	31.03.19-26.10.19	
DARI	1330-1345	11725	DHABAYYA	Afghanistan	daily	31.03.19-26.10.19	
DARI	1330-1345	13660	DHABAYYA	Afghanistan	daily	31.03.19-26.10.19	
HAUSA	0630-0700	9830	SAO TOME	Africa (west)	daily	31.03.19-26.10.19	
HAUSA	0630-0700	11800	ISSOUDUN	Africa (west)	daily	31.03.19-26.10.19	
HAUSA	0630-0700	17800	MADAGASCAR	Africa (west)	daily	31.03.19-26.10.19	
HAUSA	1300-1400	9830	SAO TOME	Africa (west)	daily	31.03.19-26.10.19	
HAUSA	1300-1400	11980	SAO TOME	Africa (west)	daily	31.03.19-26.10.19	
HAUSA	1300-1400	17800	ASCENSION	Africa (west)	daily	31.03.19-26.10.19	
HAUSA	1800-1900	9830	SAO TOME	Africa (west)	daily	31.03.19-26.10.19	
HAUSA	1800-1900	11800	ISSOUDUN	Africa (west)	daily	31.03.19-26.10.19	
HAUSA	1800-1900	15200	ISSOUDUN	Africa (west)	daily	31.03.19-26.10.19	
HAUSA	1325-1530	15195	ISSOUDUN	Africa (west)	Saturday	17.08.19-31.08.19	(Football)
HAUSA	1325-1530	17840	ASCENSION	Africa (west)	Saturday	17.08.19-31.08.19	(Football)
HAUSA	1325-1530	15195	ISSOUDUN	Africa (west)	Saturday	14.09.19-15.10.19	(Football)
HAUSA	1325-1530	17840	ASCENSION	Africa (west)	Saturday	14.09.19-15.10.19	(Football)
HAUSA	1325-1530	15195	ISSOUDUN	Africa (west)	Saturday	19.10.19-26.10.19	(Football)
HAUSA	1325-1530	17840	ASCENSION	Africa (west)	Saturday	19.10.19-26.10.19	(Football)
PASHTO	1345-1400	11725	DHABAYYA	Afghanistan	daily	31.03.19-26.10.19	
PASHTO	1345-1400	13660	DHABAYYA	Afghanistan	daily	31.03.19-26.10.19	
SWAHILI	1000-1100	15275	MADAGASCAR	Africa (east)	daily	31.03.19-26.10.19	
SWAHILI	1000-1100	17710	MADAGASCAR	Africa (east)	daily	31.03.19-26.10.19	

For further information please turn directly to:

DEUTSCHE WELLE, Customer Service, 53110 Bonn, Germany

Email: <info@dw-world.de>

Internet: <https://www.dw.com/en/dw-radio-programs/a-1777509>

Reception of DWD Deutscher Wetterdienst, August 16:

2000-2030 on 5905 PIN 010 kW / non-dir to CEu German AM mode, good

2000-2030 on 6180 PIN 010 kW / non-dir to CEu German AM mode, good

Voice of America South Sudan in Focus via Lampertheim, August 16

1630-1700 on 15180 LAM 100 kW / 132 deg to SDN English Mo-Fr, good signal

Reception of Radio Sinit Eritrea RSE via MBR Nauen on August 17

0500-0600 on 11660N 250 kW / 123 deg to EAF Tigrinya/Arabic Sa, very good

Extended px of Radio Waves International via Channel 292, August 17

0600-0900 on 6070 ROB 010 kW / non-dir to CEu English/French Sa, poor/weak/fair

World of Radio#1995 via Hamburger Lokalradio on August 17

0630-0700 on 6190 GOH 001 kW / 230 deg to CEu English Sa, weak signal.

(DX MIX 1144)

GERMANY / ECUADOR - HCJB Deutschland (3995, 5920, 7365 kHz) hat wieder Nachrichten aus Suedamerika im Programm. Mark-Torsten Wardein gibt dafuer folgende Begrueundung:

"Das war frueher immer der Renner: Das Neueste aus Suedamerika mit Radio HCJB aus Quito - Ecuador. Kultur, Land und Leute - alles war interessant und spannend. Nun gibt es wieder so ein Angebot. Ich selbst habe damals mehrere junge Mitarbeiter von ZP30 bei einer Radioschulung in Quito kennengelernt und dann den Sender in Paraguay besucht. Das Abendjournal ist auf jeden Fall ein grosser Pluspunkt fuer unser Radio in Deutschland und nimmt uns mit in den suedamerikanischen Alltag und in die Kultur.

Ausgestrahlt wird es Dienstag bis Samstag und kommt immer mit einem Tag Verspaetung wegen der Zeitverschiebung."

Das Abendjournal von ZP30 Filadelfia (Paraguay) <<http://www.zp30.com.py/main/de>> ist im neuen Programmplan um 2000 Uhr zu finden.

(hjb, July 14)

Radio HCJB Deutschland (3995, 5920, 7365 kHz) hat zum 1. Juli folgenden Programmplan (UTC) veröffentlicht:

0000: internationales Nachtprogramm

0300: Golos And in Russisch

0400: Nachrichten. 0405 Uhr Botschaft des Heils.

0425 Uhr Lutherische Stunde

0430: Idea-Nachrichten/0440 Uhr Erwartet. Sa So Medienmagazine

0500: Nachrichten. 0503 Uhr Missionswerk Werner Heukelbach

0533: Info-G. Sa So Neues Leben Impuls

0600: Nachrichten. 0605 Uhr Andacht. 0625 Uhr Lutherische Stunde

0630: Plattdeutsche Programme

0700: Hoerbuchradio

0800: Gemeindehilfsbund. So St. Martini-Gemeinde Bremen live

0900: Bibelpanorama mit Ruediger Klaue. So St. Martini-Gemeinde Bremen live

0930: Kinderprogramme. Sa So Medienmagazine

1000: Evangelistische Vortraege. Sa So Wunschbox

1100: verschiedene Programme

1300: Arbeitskreis fuer biblische Ethik in der Medizin

1400: Nachrichten. 1405 Uhr Gemeindehilfsbund

1500: Botschaft des Heils. 1515 Uhr Nachrichten. 1520 Uhr Idea heute

1530: Missionswerk Werner Heukelbach

1600: Mo Mi-Fr Gemeinde vor Ort, Di Hautnah, Sa So Wunschbox

1700: Kinderprogramme. Sa So Medienmagazine

1730: Info-G/Sa So NL-Impuls. 1755 Uhr Lutherische Stunde

1800: Nachrichten. 1805 Uhr Bibelpanorama mit Ruediger Klaue

1830: Plattdeutsche Programme

1900: Hoerbuchradio

2000: Abendjournal von R. ZP30 Filadelfia (Paraguay)

2100: Nachrichten/2105 Uhr Licht des Evangeliums. Sa So Medienmagazine

2130: Durch die Bibel

2200: internationales Nachtprogramm

(hjb, July 14)

GREECE - Voice of Greece First (Proto) px on 9420 kHz, August 20

from 0657 on 9420 AVL 150 kW / 323 deg to WEu Greek*tx#3, good.

*only Serbian news today and transmitter switches off at 0708UTC

(DX MIX 1144)

GUAM (non) - 1516-1616 NF6055*TWR 200 kW 320 deg NEAs Korean Tue-Fr, fair, ex5905 to avoid same 5905 Kash 100 kW non-dir CAs Russian China Radio Int. CRI & from 1600 UT 5905 PIN 010 kW non-dir CEu German Deutscher Wetterdienst.

*plus QRM 6050 LHA 100 kW 290 deg to EAs Chinese PBS Xizang, very good.

Wrong frequency announcement in English: on 5905 kHz, instead of new 6055 kHz.

And a small change of KTWR Trans World Radio Asia in DRM eff August 24:

1215-1245 11580 TRM 100 kW 285 deg to SAs English Sa, exMo.

Very bad frequency selection, this frequency is used by Sound of Hope & CNR-1 jamming.

Emergency frequency change: free channels are 11520, 11550, 11555 & 11570 kHz.

(Ivo Ivanov-BUL, hcdx via wwdxc BC-DX TopNews Aug 23)

GUINEA - 9650 even at 07:05 UT today Aug 10 I have heard the program in the 31 mb, the fq super-9650 kHz, and synonymous with the audio there is nothing to complain, a Prayer in French ("Amen ...") in excellent audio quality, I do not even know if they use the Beijing-China or French Thales / Thomcat / Ampegon shortwave units. 9 kHz wideband signal at S=9+10dB level or -69dBm strength.

Um 07.05 UT habe ich heute am 10. August auch das Programm im 31 mb gehoert, die fq supergenau 9650 kHz, und auch bei der Audio gibt es nix zu meckern, ein Prayer in Franzoesisch ("Amen ...") in vorzueglicher Audio Qualitaet, ich weiss gar nicht, ob die chinesische TX Schaetzchen oder franzoesische Thales / Thomcast / Ampegon units einsetzen. Bei den Afrikanern hakt es ja meist auf der Feederline zwischen Funkhaus und dem KW Sendezentrum aushaeusig, dies trifft fuer Conakry aber nicht zu. (*derzeit ... we*)

[selected SDR options, span 12.5 kHz RBW 15.3 Hertz]

(wb df5sx, wwdxc BC-DX TopNews Aug 10)

INDIA - AIR Mumbai is noted off air again on 7340 kHz at 0025-0430 UT Urdu, 0830-1130 UT Urdu, 1130-1140 UT HS, 1230-1500 UT Sindhi and 1500-1600 Baluchi (towards Pakistan).

Maybe 11940 at 1745-1945 UT English (Ea. Africa target) is also off ? - Again antenna "problem"?
(Jose Jacob-IND VU2JOS, <<http://www.qsl.net/vu2jos>> DXindia DXsasia Aug 12)

7340.005 kHz AIR Bombay already at 08.08 UT on Aug 12 on test.

7340.005 kHz noted as subcontinental string instrument play, endless already from tune-in at 08.08 UT on Aug 12. Used remote SDR units in Delhi and Doha Qatar.

(underneath also co-channel 7340even kHz of PBS Xinjiang Kazakh service from domestic Urumqi site)
[selected SDR options, span 12.5 kHz RBW 15.3 Hertz]
(wb df5sx, wwdxc BC-DX TopNews / DXsasia / DXindia Aug 12)

IRAN - 13730.005 kHz IRIB Zahedan outlet in Arabic language, heard with international news on Israel Politician Netanyahu etc.etc. S=9+15dB at 07.40 UT on Aug 10.

13590even VoIRIB Zahedan in Arabic, at 14.02 UT on Aug 11.

0830-1430 UT scheduled in A-19 season, S=9+20dB here in EUR. Phone-in program in Arabic.

13744.965 kHz VoIRIB Sirjan in Urdu language, 12.50-14.20 UT on Aug 11, S=9 in central Europe.

13765.010 VoIRIB Sirjan in Arabic, S=9+15dB here in western Europe at 14.10 UT on Aug 11.

On Aug 12 at 07.48 UT noted VoIRIB Sirjan Arabic outlet, on 13744.965 kHz, previously 13640 kHz 0600-0830 UT to zone 39 SIR 500kW 198deg 0 146 ARABIC-S

Observed powerhouse from Sirjan site of S=9+40dB signal heard in ME target on remote SDR in Doha Qatar ME. Phone-in program talk on Saudi Arabia matter.

13745.004 kHz, different fq 'footprint' at 10.00 UT, seemingly via IRIB Ahwaz bcast center then, also in Arabic // 13589.997 kHz Zahedan site outlet, scheduled 0830-1430 UT, underneath CRI English Beijing on even 13590 kHz.

Noted also IRIB Dari service to Afghanistan / eastern Persia, 9445even kHz only S=7 fair in Delhi, more properly in // 13725.008 kHz on S=9+40dB level in Delhi remote SDR. 10.15 UT Aug 12.

[selected SDR options, span 12.5 kHz RBW 15.3 Hertz](wb df5sx, wwdxc BC-DX TopNews Aug 10 / 11 / 12)

KOREA D.P.R. - Voice of Korea, via Kujang bcast center, noted with some irregular break/moves, with different language audio feed, or even only modulated with pure Jamming scratch audio as intermodulation locally on the broadcast center, sometimes with empty carrier only.

Noted on extensive monitoring in remote PERSEUS units in eastern Thailand, New Delhi India, Akitakata Hiroshima and Tokyo, Japan; during July 14 - 18, 2019.

kHz	program	time UT	language / remarks	kW	deg
7220.000	VoK (KCBS)	0300-0350*	Korean	200	ND
9445.130	VoK (KCBS)	0300-0350*	Korean	200	ND
9730.000	VoK (KCBS)	0300-0350*	Korean	200	ND
13649.967	VoK	0300-0357	Chinese	200	238
15105	VoK	0300-0320	Chinese break 03.20 UT	200	238
11864.990	VoK	0300-0357	Chinese move from 15105 kHz	200	238
11735.003	VoK	0300-0357	Spanish	200	28
13759.997	VoK	0300-0357	Spanish	200	28
15179.997	VoK	0300-0357	Spanish	200	28
7220.000	VoK	0400-0457	English	200	ND
9445.130	VoK	0400-0457	English	200	ND
9730.000	VoK	0400-0457	English	200	ND
11735.003	VoK	0400-0457	English	200	28
13759.997	VoK	0400-0457	English	200	28
15179.997	VoK	0400-0457	English	200	28
13649.967	VoK	0400-0457	French	200	238
15105	VoK	0400-0457	French now 11865	200	238
11864.990	VoK	0400-0457	French move from 15105 kHz	200	238

7220.000	VoK	0500-0557	Chinese	200	ND
9445.130	VoK	0500-0557	Chinese	200	ND
9730.002	VoK	0500-0557	Chinese	200	ND
13649.964	VoK	0500-0557	English	200	238
15105	VoK	0500-0557	English now 11865	200	238
11864.989	VoK	0500-0557	English move from 15105 kHz	200	238
11735.002	VoK	0500-0557	Spanish	200	28
13759.997	VoK	0500-0557	Spanish	200	28
15179.997	VoK	0500-0557	Spanish	200	28
13649.964	VoK	0600-0657	Chinese	200	238
15105	VoK	0600-0657	Chinese now 11865	200	238
11864.988	VoK	0600-0657	Chinese move from 15105 kHz	200	238
7220.000	VoK	0600-0657	English	200	ND
9445.130	VoK	0600-0657	English	200	ND
9730.002	VoK	0600-0657	English	200	ND
11735.002	VoK	0600-0657	French	200	28
13759.997	VoK	0600-0657	French	200	28
15179.997	VoK	0600-0657	French	200	28
7220.000	VoK (KCBS)	0700-0750*	Korean	200	ND
9445.130	VoK (KCBS)	0700-0750*	Korean	200	ND
9650.002	VoK	0700-0757	Japanese	200	109
11864.987	VoK	0700-0757	Japanese	200	109
9875.002	VoK	0700-0757	Russian	200	28
11734.997	VoK	0700-0757	Russian Japanese	200	28
13759.983	VoK	0700-0757	Russian	200	325
15244.961	VoK	0700-0757	Russian Japanese	200	325
9650.002	VoK	0800-0850	Japanese Russian	200	109
11864.988	VoK	0800-0850	Japanese	200	109
7220.000	VoK	0800-0857	Chinese Russian	200	ND
9445.130	VoK	0800-0857	Chinese Russian	200	ND
9875.003	VoK	0800-0857	Russian	200	28
11734.998	VoK	0800-0857	Russian Japanese+1/2 Russian	200	28
13759.982	VoK	0800-0857	Russian	200	325
15244.961	VoK	0800-0857	Russian Chinese	200	325
7220.000	VoK (KCBS)	0900-0950	Korean +Scratch jamm intermodulat	200	ND
9445.130	VoK (KCBS)	0900-0950	Korean +Scratch jamm intermodulat	200	ND
9875.003	VoK (KCBS)	0900-0950*	Korean	200	28
11734.998	VoK (KCBS)	0900-0950*	Korean	200	28
13759.982	VoK (KCBS)	0900-0950*	Korean	200	325
15244.961	VoK (KCBS)	0900-0950*	Korean	200	325
9650.002	VoK	0900-0950	Japanese	200	109
11864.989	VoK	0900-0950	Japanese	200	109
7220.000	VoK (KCBS)	1000-1050*	Korean	200	ND
9445.130	VoK (KCBS)	1000-1050*	Korean	200	ND
9650.002	VoK	1000-1050	Japanese 90% jamm intermodulat	200	109
11864.989	VoK	1000-1050	Japanese 90% jamm intermodulat	200	109
11709.989	VoK	1000-1050	English Japanese	200	28
11734.998	VoK	1000-1050	English Japanese	200	238
13650.003	VoK	1000-1050	English	200	238
15179.981	VoK	1000-1050	En CNR1 DRM Kunming 08-11 UT	200	28
7220.000	VoK	1100-1157	Chinese French	200	ND
9445.130	VoK	1100-1157	Chinese French	200	ND
11709.989	VoK	1100-1157	French Japanese	200	28
11734.998	VoK	1100-1157	French Japanese	200	238
13650.003	VoK	1100-1157	French	200	238
15179.981	VoK	1100-1157	French	200	28
9650.002	VoK	1100-1157	Japanese	200	109
11864.989	VoK	1100-1157	Japanese	200	109
7220.000	VoK (KCBS)	1200-1250*	Korean	200	ND
9445.130	VoK (KCBS)	1200-1250*	Korean	200	ND
9650.002	VoK	1200-1250	Japanese	200	109
11864.989	VoK	1200-1250	Japanese + 99% jamm intermodulat	200	109
11709.998	VoK (KCBS)	1200-1250	Korean Japanese	200	28
11734.998	VoK (KCBS)	1200-1250	Korean Japanese	200	238
13650.003	VoK (KCBS)	1200-1250	Korean	200	238
15179.981	VoK (KCBS)	1200-1250	Korean	200	28

11734.998	VoK	1300-1357	Chinese	200	238
13650.003	VoK	1300-1357	Chinese	200	238
9435.000	VoK	1300-1357	English	200	28
11709.998	VoK	1300-1357	English	200	28
13759.983	VoK	1300-1357	English	200	325
15244.961	VoK	1300-1357	English	200	325
9425.000	VoK	1300-1350*	Korean	200	325
12014.989	VoK	1300-1350*	Korean	200	325
11734.998	VoK (KCBS)	1400-1450	Korean	200	238
13650.003	VoK (KCBS)	1400-1450	Korean French	200	238
9435.000	VoK	1400-1457	French	200	28
11709.998	VoK	1400-1457	French	200	28
13759.983	VoK	1400-1457	French	200	325
15244.961	VoK	1400-1457	French Korean	200	325
9425.000	VoK	1400-1457	Russian	200	325
12014.989	VoK	1400-1457	Russian 11865 MNG 12014.875	200	325
9890.000	VoK	1500-1557	Arabic	200	296
11645.004	VoK	1500-1557	Arabic English	200	296
9435.000	VoK	1500-1557	English Russian	200	28
11709.999	VoK	1500-1557	English	200	28
13759.984	VoK	1500-1557	English	200	325
15244.959	VoK	1500-1557	English Arabic	200	325
9425.000	VoK	1500-1557	Russian	200	325
12014.990	VoK	1500-1557	Russian >>> 11865 July 15	200	325
9890.000	VoK	1600-1657	English	200	296
11645.004	VoK	1600-1657	English French	200	296
9435.000	VoK	1600-1657	French German	200	28
11709.999	VoK	1600-1657	French German	200	28
13759.984	VoK	1600-1657	French	200	325
15244.959	VoK	1600-1657	French English	200	325
9425.000	VoK	1600-1657	German English	200	325
12014.990	VoK	1600-1657	German >> 11865 English July 15	200	325
9435.000	VoK (KCBS)	1700-1750	Korean	200	28
11709.999	VoK (KCBS)	1700-1750	Korean	200	28
13759.984	VoK (KCBS)	1700-1750	Korean + 99% KRE jamming	200	325
15244.959	VoK (KCBS)	1700-1750	Korean + 99% KRE jamming	200	325
9890.000	VoK	1700-1757	Arabic	200	296
7210.000	VoK	1700-1757	Arabic >>> 7210 instead	200	296
9425.000	VoK	1700-1757	Russian	200	325
12014.990	VoK	1700-1757	Russian >>>11865 July 15	200	325
13759.987	VoK	1800-1857	English	200	325
15244.962	VoK	1800-1857	English	200	325
7210.000	VoK	1800-1857	French	200	271
9874.998	VoK	1800-1857	French	200	296
11635.003	VoK	1800-1857	French	200	296
11909.999	VoK	1800-1857	French	200	271
9425.000	VoK	1800-1857	German	200	325
12014.990	VoK	1800-1857	German	200	325
7210.000	VoK	1900-1957	English German	200	271
9874.998	VoK	1900-1957	English	200	296
11635.003	VoK	1900-1957	English Spanish	200	296
11909.999	VoK	1900-1957	English German	200	271
9425.000	VoK	1900-1957	German English	200	325
12014.990	VoK	1900-1957	German >>>11865 July 15	200	325
13759.984	VoK	1900-1957	Spanish	200	325
15244.962	VoK	1900-1957	Spanish English	200	325
7210.000	VoK (KCBS)	2000-2050	Korean	200	271
9425.000	VoK (KCBS)	2000-2050	Korean	200	325
9874.998	VoK (KCBS)	2000-2050	Korean	200	296
11635.003	VoK (KCBS)	2000-2050	Korean French	200	296
11909.999	VoK (KCBS)	2000-2050	Korean	200	271
12014.990	VoK (KCBS)	2000-2050	Korean >>> 11865 July 15	200	325
13759.984	VoK	2000-2057	French French	200	325
15244.962	VoK	2000-2057	French	200	325
9650.001	VoK	2100-2150	Japanese	200	109
12014.990	VoK	2100-2150	Japanese >>> 12015 July 17	200	109

7235.000	VoK	2100-2157	Chinese	200	ND
9445.130	VoK	2100-2157	Chinese	200	ND
9875.003	VoK	2100-2157	Chinese	200	271
11634.998	VoK	2100-2157	Chinese	200	271
13759.984	VoK	2100-2157	English	200	325
15244.962	VoK	2100-2157	English	200	325
7235.000	VoK	2200-2257	Chinese	200	ND
9445.129	VoK	2200-2257	Chinese	200	ND
9875.002	VoK	2200-2257	Chinese Spanish	200	271
11634.997	VoK	2200-2257	Chinese	200	271
9650.002	VoK	2200-2257	Japanese	200	109
12014.989	VoK	2200-2257	Japanese >>> 12015 July 17	200	109
13759.983	VoK	2200-2257	Spanish	200	325
15244.960	VoK	2200-2257	Spanish Chinese	200	325
9650.002	VoK	2300-2350	Japanese	200	109
12014.989	VoK	2300-2350	Japanese >>> 12015 July 17	200	109
7235.000	VoK (KCBS)	2300-2350	Korean	200	ND
9445.128	VoK (KCBS)	2300-2350	Korean	200	ND
9875.002	VoK (KCBS)	2300-2350	Korean	200	271
11634.997	VoK (KCBS)	2300-2350	Korean	200	271
13759.983	VoK (KCBS)	2300-2350	Korean	200	325
15244.961	VoK (KCBS)	2300-2350	Korean	200	325

* inactive / out of service in A-19 season, due to budget cut ?

[selected SDR options, span 12.5 kHz RBW 15.3 Hertz](wb df5sx, wwdxc BC-DX TopNews July 14 - 18)

KURDISTAN (non) - Denge Welat via Issoudun & Grigoriopol, August 19:

0500-0600 on 11530 F 250 kW / 090 deg to WAs Kurdish, very good
0600-1600 on 11530 KCH 300 kW / 130 deg to WAs Kurdish, weak/fair
(DX MIX 1144)

KUWAIT - Reception of MOI Radio Kuwait in English, August 6:

0500-0800 UT 15529.8 KBD 250 kW 310 deg to WEu English, weak/fair
(Ivo Ivanov-BUL, hcdx via wwdxc BC-DX TopNews Aug 6)

5959.876 KWT Radio Kuwait from Kabd under threshold, poor due of daylight path Kuwait to central Europe at 06.08 UT.

[selected SDR options, span 12.5 kHz RBW 15.3 Hertz](wb df5sx, wwdxc BC-DX TopNews Aug 9)

15109.701 kHz much odd fq Radio Kuwait Kabd with live phone-in program in Filipino(!) language at 11.25 UT, in AM mode instead, not R KWT Arabic in DRM 0945-1325 UT scheduled. S=9+10dB on Aug 10 and surprisingly on // 17760even kHz frequency in 16 mb to same program. Content of phone-in: "... several laughing Filipino women ..."
[selected SDR options, span 12.5 kHz RBW 15.3 Hertz](wb df5sx, wwdxc BC-DX TopNews Aug 10)

Radio Kuwait in Arabic GS on 15530vkHz, instead of English on August 20:

0445-0500 on 15529.8 KBD 250 kW / 310 deg to WEu Arabic GS, unscheduled in HFCC
0500-0800 on 15529.8 KBD 250 kW / 310 deg to WEu Arabic GS, instead on English
(DX MIX 1144)

PHILIPPINES - Good signal of FEBC Radio / Radio Teos on August 18:

1500-1530 on 9920 B0C 100 kW / 323 deg to CAs Russian Daily &
1530-1600 on 9920 B0C 100 kW / 323 deg to CAs Ukr/Rus Sunday
Wrong time&freq: 19-20 MST on 11650, not 18-19 MST on 9920 kHz!
(DX MIX 1144)

ROMANIA - TX at Tiganesti RadioCom bcast center has been repaired now:

Austrian DXer Paul Gager told me yesterday Aug 9th, that the German language sce from RRI Tiganesti is back on air on 7355 kHz again via Tiganesti site towards short-distance settled audience near Austrian capital Vienna / Burgenland usually daily at 14.00-14.57 UT.

Now on Aug 10th RRI Tiganesti in Russian language at 13.00 UT heard also on both Tiganesti channels again ON AIR, heard at Tokyo remote Perseus SDR units on 9890 and 11940 kHz, both S=8-9 signal across northern Siberia path to Far East Russia audience.

[selected SDR options, span 12.5 kHz RBW 15.3 Hertz](wb df5sx, wwdxc BC-DX TopNews Aug 10)

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RUSSIA - Good signal of GTRK Adygeya/Adygeyan Radio, August 18:
1900-2000 on 6000 ARM 100 kW / 188 deg to CAs Adygeyan Su.
(DX MIX 1144)

SAO TOME - Reception of Deutsche Welle via Pinheira, August 6:
0630-0700 UT 9830 STP 100 kW 000 deg to WAF Hausa, fair signal
(Ivo Ivanov-BUL, hcdx via wwdxc BC-DX TopNews Aug 6)

Sao Tome aligned odd / even:
6080.028 STP VOA English, S=6 at 05.45 UT on Aug 9,
6180even STP but VOA French outlet also.

[selected SDR options, span 12.5 kHz RBW 15.3 Hertz](wb df5sx, wwdxc BC-DX TopNews Aug 9)

SOLOMON ISLANDS - 9545 kHz, SIBC Honiara - Voice of the Nation, July 31 & August 1, from 0430 to 0459* UT. Both days with unusual format of non-stop speeches; unreadable; not their normal music format; getting closer to being readable. (Ron Howard-CA-USA, WOR DXLD Aug 1)

SPAIN - REE Back on 9690 kHz Listening to it now (29 July) at a couple of minutes before 2000 UT with a good signal here in New Brunswick even with a portable indoors with its whip antenna. Good audio. Time pips for 2000 right on the dot. Followed by the c.w. introduction to the mariners' program. Will check the other frequencies shortly.

11670 kHz - can hardly tell they're there
11940 kHz - quite weak
12030 kHz - listenable but nowhere near as good as 9690 kHz.

But this is all indoors with a portable. Reception on these frequencies would be better with an outdoor antenna.
(Richard Langley-NB-CAN, wor dxld July 29)

9690 kHz on July 29, at 2035-2043 UT, Radio Exterior de Espana, Noblejas, in Spanish. Man announcer interviews a Spanish man in the program "Espanoles en la Mar"; ID. Good reception, 45544.

11940 kHz July 29, at 2052-2103 UT, Radio Exterior de Espana, Noblejas, in Spanish. Man talks with maritime theme; 2053 UT Transmission problem in modulation with interruption and returns at 2054 UT; ID and a song by female singer; 2056 UT ID and other song; 2100 UT Time pips and ID; Woman announcer presents news. Fair reception, fades and transmission problems presumably, 35433.
(JRX_Jose Ronaldo Xavier-BRA, wor dxld July 29)

SRI LANKA - Reception of Sri Lanka Broadcasting Corporation, August 13:
1630-1830 on 11750 TRM 125 kW / 345 deg to N/ME Sinhala City FM &, good signal
1700-1800 on 11835 TRM 125 kW / 345 deg to SAs Tamil Thendral FM, good signal
(DX MIX 1144)

SRI LANKA / GERMANY - 15150.005 kHz AWR via SLBC bcast center at Trincomalee, former DWL Voice of Germany relay until 2010 year. S=6 fair signal noted here on sidelobe in WeEUR. 14.15 UT on Aug 11. AWR ministry program in Asho Chiu language acc Aoki Nagoya database.

15705even AWR Chinese via SLBC relay at Trincomalee, S=7 fair signal here in WeEUR at 14.20 UT, and at scheduled 14-15 UT also same program surprisingly on nearby // also on

15715even AWR Chinese via MBR Nauen Germany at 14.22 UT on Aug 11, S=9+20dB here in WEu.

[selected SDR options, span 12.5 kHz RBW 15.3 Hertz](wb df5sx, wwdxc BC-DX TopNews Aug 11)

SURINAME - 4989.987 kHz Radio Apintie Paramaribo, nur mit ausgeschalteter AGC mit Handfuehrung, nur an der SBA Grasnarbe, 4989.987 kHz S=2-3 oder -123 dBm unterirdisches Signal. 0634 UT am 10. August.

[selected SDR options, span 12.5 kHz RBW 15.3 Hertz](wb df5sx, wwdxc BC-DX TopNews Aug 10)

TAIWAN - Special transmissions in German "Direkt aus Tamsui" (directly from Tamsui) 2019:

11990 kHz 1700-1800 UTC 9540 kHz 1800-1900 UTC

30. August (Freitag) / analog

31. August (Samstag) / analog
 01. September (Sonntag) / DRM
 06. September (Freitag) / analog
 07. September (Samstag) / analog
 08. September (Sonntag) / analog
 13. September (Freitag) / analog (Mondfest)
 14. September (Samstag) / analog
 15. September (Sonntag) / DRM
 20. September (Freitag) / analog
 21. September (Samstag) / analog
 22. September (Sonntag) / analog
 (via Bernd Seiser)

9540 seems to be the better choice (we)

13550.063 SOH program, mentioned 'Mao Zedong' in Chinese at 14.00 UT on Aug 11. S=5 here in western Europe, // 13640.201 kHz at same time. No CNR1 jamming at this 14-15 UT time slot traced.

[selected SDR options, span 12.5 kHz RBW 15.3 Hertz](wb df5sx, wwdxc BC-DX TopNews Aug 11)

TURKEY - 11675.688 kHz TRT Emirler in Turkish, S=9 fluttery signal towards NE/ME, heard also here in CeEUR, scheduled 06-11.55 UT, noted at 07.13 UT. // same program on 11750.008 kHz towards all-Europe S=9+15dB at 07.21 UT on Aug 10.

11730.023 kHz noted TRT Emirler in Azeri language (Turk language similar) at 07.14 UT station program ID by female presenter, S=9+5dB or -69dBm strength here in CEu.

[selected SDR options, span 12.5 kHz RBW 15.3 Hertz](wb df5sx, wwdxc BC-DX TopNews Aug 10)

Voice of Turkey in Chinese on two frequencies in parallel, August 13:

1100-1125 on 7210 EMR 250 kW / 290 deg to SEEu Chinese, instead of Bulgarian
 1100-1155 on 15240 EMR 500 kW / 072 deg to EAs Chinese, as scheduled in A-19

Unscheduled TRT Voice of Turkey in Japanese on shortwave, August 14:

1124-1126 on 13760 EMR 500 kW / 310 deg to WEu Japanese - unscheduled on SW,
 1126-1130 on 13760 EMR 500 kW / 310 deg to WEu Voice of Turkey IS in German,
 1130-1225 on 13760 EMR 500 kW / 310 deg to WEu German, as scheduled in A-19.

TRT Voice of Turkey in Tatar on wrong frequency 11795 kHz, August 17:

0830-0955 on 11795 EMR 500 kW / 105 deg to WAs Farsi, as scheduled in A-19
 0956-1014 on 11795 EMR 500 kW / 105 deg to WAs Tatar, instead of 9855 kHz,
 1016-1025 on 9855 EMR 500 kW / 032 deg to CAs Tatar, as scheduled in A-19
 (DX MIX 1144)

UNITED KINGDOM (non) - FEBA Radio Radio Sama via ENC-DMS Moosbrunn, August 15:

till 0800 on 15260 WOF 250 kW / 158 deg to CeAf English BBCWS, good
 0800-0830 on 15260 OE 100 kW / 115 deg to N/ME Arabic, fair signal

Reception of KBS World Radio via ENC-DMS Woofferton, August 17:

till 1800 on 9820 BIB 100 kW / 105 deg to WeAs Kurdish Voice of America &
 1800-1900 on 9820 WOF 250 kW / 066 deg to EEu Russian, very good signal.
 (DX MIX 1144)

BBC World Service steps up shortwave broadcasts in Kashmir during media shutdown

Given the shutdown of digital services and phone lines in the region, it's right for us to try and increase the provision of news on our shortwave radio services. Jamie Angus, Director, BBC World Service Last updated: 15.08.2019 at 12.58. The BBC World Service has extended output on shortwave radio in Indian-administered Kashmir to provide reliable news and information. The Director of the BBC World Service, Jamie Angus, says: "The provision of independent and trusted news in places of conflict and tension is one of the core purposes of the World Service. "Given the shutdown of digital services and phone lines in the region, it's right for us to try and increase the provision of news on our short wave radio services. Audiences in both India and Pakistan trust the BBC to speak with an independent voice, and we know that our reporting through several moments of crisis this year has been popular and valued by audiences who turn to us when tensions are highest."

BBC News Hindi radio output (9515 and 11995 kHz) will be extended by 30 minutes from Friday 16 August. The full one-hour news programme will be on air from 7.30pm to 8.30pm local time

On Monday 19 August, BBC News Urdu will launch a 15-minute daily programme, Neemroz. Broadcast at 12.30pm local time on 15310kHz and 13650kHz, the programme will focus on news coming from Kashmir and the developments

around the issue, and include global news roundup tailored for audiences in Kashmir.

BBC World Service English broadcasts (11795 kHz, 9670 kHz, 9580 kHz, 7345 kHz, 6040 kHz) will be expanded, with the morning programming extended by an hour, ending at 8.30am local time; and the afternoon and evening programming starting an hour earlier, at 4.30pm local time. The shutdown has left people with very few options for accessing news at this time. However, news services from the BBC continue to be available in the region - through shortwave radio transmissions in English, Urdu, Hindi, Dari and Pashto. As well as providing an important source of news to the region, the South Asian language services have brought added depth to the BBC's coverage of the Kashmir story.

The recent introduction of four new languages services for India - Gujarati, Marathi, Punjabi and Telugu, following additional investment from the UK Government - has enabled the BBC to offer a wider portfolio of languages and distribution methods to a region that is geographically diverse as well as politically tense. This year's Global Audience Measure for the BBC showed that India is now the World Service's largest market, with a weekly audience of 50 m. (BBC press)

Extended transmission of BBC in Hindi, August 20:

1400-1500 on 9460 SLA 250 kW / 063 deg to SAs Hindi, poor
 1400-1500 on 9510 SNG 250 kW / 320 deg to SAs Hindi, good
 1400-1500 on 11795 SNG 250 kW / 315 deg to SAs Hindi, good
 1400-1500 on 11995 SLA 250 kW / 075 deg to SAs Hindi, poor
 (DX MIX 1144)

U.S.A. - VOICE OF AMERICA (VOA) (Gov)

Amharic

1600-1630 mtwtf.. EAf 1431/dji (del)

Bengali / Rohingya

1130-1200 mtwtf.. SEAs 9310/udo, 9980/udo, 11570/pht (add)
 1300-1330 mtwtf.. SEAs 1575/bph (add) BKK/TH

English

1130-1200 daily SEAs 1575/bph, 12030/udo, 15715/pht, 17790/pht (del)
 1130-1200ss SEAs 9310/udo, 9980/udo, 11570/pht (add)
 1300-1330ss SEAs 1575/bph (add)

1530-1700 daily EAf 1431/dji (add)
 1800-1830 daily EAf 1431/dji (add)
 2030-2100 daily EAf 1431/dji (add)
 2130-0330 daily EAf 1431/dji (add)

French

1830-2030 daily EAf 1431/dji (add)
 2100-2130 daily EAf 1431/dji (add)

Somali

1600-1630ss EAf 1431/dji (del)
 1700-1800 daily EAf 1431/dji (add)
 (WRTH 2019, summer supplement, Update #3 amended, Aug 1)

6160 kHz WBCQ and Area 51:

Allan tells me that there is a special programming block that will on 5130 kHz on Saturday from 4pm to 2am US eastern time. This displaces our Area 51 programming.

However, we will be on the new 6160 kHz service instead. This is the former 9330 kHz transmitter that's been re-tuned for the new frequency. I've been listening to this new service this week and it is putting out a great signal, much better than 5130 kHz during the times when Area 51 is on.

On Sunday we'll be back on 5130 kHz but should also have a simulcast on 6160 kHz as well.

Our regular 3265 kHz weekend simulcast will remain in place. If I recall, this service simulcasts Area 51 all weekend except for Pirate Joe's talk show on Saturday night.

Allan will be on live tonight at 8pm eastern time on 3265 // 5130 6160 7490 kHz.
 (Larry Will-USA, dxld July 26)

5049.988 kHz likely WWRB station Morrison TN USA - acc fq list, S=9+25dB or -51 dBm proper signal at 23.38 UT

on Aug 10. Talk on Columbia Film, "Letter from America", earthquake in Taiwan and China, Russian Siberia Tundra fires. Global Warming theme also. (terrible many theme mixture - for my brain). ! 19 kHz wideband signal.

[selected SDR options, span 12.5 kHz RBW 15.3 Hertz](wb df5sx, wwdxc BC-DX TopNews Aug 10)

4980even WRMI English TV program relay, noted at 23.30 UT in Detroit (MI) remote SDR unit, S=8 or -78dBm on Aug 10.

5010even WRMI Spanish language service, S=7 or -87dBm sermon, low modulated audio level, at 23.34 UT Aug 10.

5800.016 UNID carrier, - maybe coming from WRMI Exciter in Okeechobee FL state. S=4 -99dBm strength, at 23.46 UT in Detroit MI.

5850even WRMI TOM BS roarer in English, old record or poor web feeder audio quality ? At 23.49 UT S=9+15 or -61dBm in Michigan remote SDR.

5950even WRMI tiny signal, JBA under threshold level S=4-5 or -89dBm signal at 23.50 UT on Aug 10. some mx / singer traced - hard to tell any detail.

15770 kHz WRMI S=5-6 here in WeEUR at 14.24 UT on Aug 11. English likely TV px relay female presenter annmt.

[selected SDR options, span 12.5 kHz RBW 15.3 Hertz](wb df5sx, wwdxc BC-DX TopNews Aug 10 / 11)

7490.177 kHz on Aug 7 at 1955 UT, JBA carrier while my line noise is off, so WBCQ must be on this early already on a Wednesday, prior to 'Financial Survival' at 2000 UT.

{7490.183 kHz at 2328 UT on Aug 8, S=9+20dB in Detroit-MI state, wb.

Unlike Aug 5, no sign of an early test from WRNO 7505 kHz.

17775 kHz on Aug 6 at 2111 UT, KVOH is still on with S9 music, but with BFO, carrier seems to be cutting off & on very rapidly; on AM it sounds like a crackle. Also sounds different depending on whether R75 AGC is off, slow or fast, latter being default. (gh, hcdx Aug 8; did insert by wb for TopNews website: 'kHz and UT' for the clarity and clarification of a larger audience)

Reception of World Harvest Radio International Angel 2, August 16:

0500-0515 on 9825 HRI 250 kW / 047 deg to WeEu French Fri, fair signal

Allan & Angela Weiner Worldwide on 5 freqs on August 17:

0000-0100 on 3265 BCQ 050 kW / 245 deg to ENAm English Sa

0000-0100 on 5130vBCQ 050 kW / 245 deg to ENAm English Sa

0000-0100 on 6160 BCQ 050 kW / 245 deg to ENAm English Sa

0000-0100 on 7490vBCQ 050 kW / 245 deg to ENAm English Sa

0000-0100 on 9330 BCQ 500 kW / 255 deg to MEX English Sa

Reception of World Harvest Radio International Angel 2 on August 20:

0430-0600 on 9825 HRI 250 kW / 047 deg to WEu English, very weak signal

Wrong frequency announcement: on 9830 kHz (Winter), instead of 9825 (Summer)

Frequency changes of WJHR Milton in 19 mb USB mode, August 20:

1400-2200 NF 15550*JHR 050 kW / 005 deg to WNAmerican English, ex 15555USB

*1529-1557UT 15550 SMG 250 kW / 150 deg to EaAf Arabic AM R.Dabanga.

No signal here 14-1530UT August 20, very weak signal via SDR Twente.

(DX MIX 1144)

U.S.A. (Tennessee) - WWCR Nashville hat zum 1. Juli folgenden Sende- und Programmplan veroeffentlicht:

WWCR-1 (100 kW, 46 degr)

0000-0100: 6115 kHz

0100-0900: 3215 kHz, ueberwiegend R. G. Stair

0900-1100: 15795 kHz

1100-2200: 15825 kHz, darin

*1600-1630 Sa Katholische Messe in Latein

*1700-1800 Mo-Fr R. G. Stair

*1930-1945 Mi Ask WWCR

2200-2400: 6115 kHz, darin

*2200-2300 Mo-Fr R. G. Stair

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WWCR-2 (100 kW, 85 degr)
0000-1200: 5935 kHz, University Network (Gene/Melissa Scott)
1200-1500: 7490 kHz, darin
*1200-1400 Mo-Fr Power Hour
*1400-1500 So R. G. Stair
1500-2000: 12160 kHz, darin
*1600-2000 Mo-Fr Alex Jones/Infowars live
*1800-2000 Sa R. G. Stair
2000-2400: 9350 kHz, darin
*2000-2200 Sa R. G. Stair
*2100-2300 So Infowars

WWCR-3 (100 kW, 40)
0000-1200: 4840 kHz, darin
*0200-0600 Mo-Fr Infowars
*0200-0300 Sa Ask WWCR. 0215 Australian DX. 0230 Wavescan
*0500-0600 So Mo World Wide Country Radio
*0600 (Sa 0900)-1200 Mo-Sa R. G. Stair
*0945-1000 So Ask WWCR
1200-2400: 13845 kHz, darin
*1400-1900 Mo-Sa R. G. Stair
*1900 (So 1700)-2400 University Network

WWCR-4 (100 kW, 90 degr)
0200-0400: 5890 kHz Di-Sa
2000-2200: 9980 kHz Mo-Fr

<<http://www.wwcr.com>>
(hjb, July 14)

U.S.A. [PANAMA / non] - 9955 kHz, Wed August 7 at 1306 UT, DX program in Spanish via WRMI {Okeechobee-FL-US state, wb.}, and sure sounds like Manolo de la Rosa, who retired from RHC two or three years ago, soon outro as part 3 of a talk about the Titanic, but no name given. Would he be mortified to be broadcast now by the gusana station?

The show is 'Antena DX', host Victor Gutierrez then listing its sked on WRMI and WBCQ frequencies without saying which stations, and I think omitting the very broadcast I am listening to, if they were cited in time order.

On next at 1311 UT to the AER DX report, featuring African stations in Congo DR and Guinea Ecuatorial, once again including R. CANDIP as if it still exist on 5066 kHz, and RNGE Malabo as if it still exist on 6250 kHz. He always laboriously spells out P and E-mail addresses of each station, most of which are in English. Also DWD on 5905, 6180 kHz. Once again he is not named in the outro, so I won't either.
(gh, hcdx Aug 8; did insert by wb for TopNews website: 'kHz and UT' for the clarity and clarification of a larger audience)

U.S.A. [PHILIPPINES / THAILAND] - Re: Voice of America in Bangla on shortwave from today July 29.

New VOA Rohingya Language Program checked on August 2nd on remote SDR unit in New Delhi India:

9310even kHz carrier from IBB BBG US relay in northeastern Thailand already on air at 11.27 UT.

At 11.29:15 UT program start with VoA relay site ID and followed by "Yankee Doodle" melody til 11.30 UT, S=9+35dB or -47dBm proper signal in northern India, next to Burmese - Bangladesh-Muslim border area.

At 11.30-11.33 UT nothing heard on 3rd channel of 9980 kHz / Udon Thani.

// Rohingya/English 11570even kHz channel on 25 meterband from IBB BBG US relay site on the Philippines at Tinang location. S=9+5dB or -77dBm fluttery signal also at Delhi India remote post.

At 11.38 UT check UT heard the VoA program came late on channel of 9980 kHz / Udon Thani Thailand relay broadcast center outlet.

S=9+20dB or -55dBm, but channel suffered by some annoying BUZZ audio tone of UTE nearby ? - at least heard in India remote SDR, some 120, 240, and 410 Hertz apart distance BUZZ strings visible on upper sideband.

[selected SDR options, span 12.5 kHz RBW 15.3 Hertz](wb df5sx, wwdxc BC-DX TopNews Aug 2)

World's Last Chance Radio via WBCQ-#6 is on air 12 hrs, instead 24 hrs:

Allan tells me that WBCQ-6 is still very much in the test phase. He did confirm on his radio show on July 12 that the new service will use 11705 and 15180 kHz in addition to 9330 kHz, but the implementation of these new frequencies requires some work at the facility. The facility is still intended to be a 24 hour operation once the testing phase is complete.

(Lw, dxld July 13)

UZBEKISTAN (non) - Free North Korea Radio via RRTM Telecom Tashkent, August 19:

1200-1400 on 11510 UZB 100 kW / 076 deg to NEAs Korean, weak to fair signal

Voice of Martyrs via RRTM Telecom Tashkent, August 19:

1530-1600 on 7530 UZB 100 kW / 076 deg to NEAs Korean, weak/fair signal

BBC World Service via RRTM Telecom Tashkent, August 20:

1100-1200 on 9580*UZB 100 kW / 131 deg to SAs English, poor/weak/fair.

*1100-1200 on 9580 NLS 100 kW / 300 deg to NEAs Russian tx#1 KNLS co-ch!

(DX MIX 1144)

VATICAN (non) - Good signal of Vatican Radio VR on August 13:

0600-0610 on 11930 SMG 250 kW / 118 deg to N/ME Italian Mo-Sa

0610-0630 on 11930 SMG 250 kW / 118 deg to N/ME Arabic Mo-Sa

0630-0645 on 11930 SMG 250 kW / 118 deg to N/ME French Mo-Sa

NHK World Radio Japan via SM di Galeria, August 8:

0500-0530 on 9860 SMG 250 kW / 184 deg to WAF English, good

Voice of America via SM di Galeria on August 9:

till 0700 on 12070 SMG 250 kW / 184 deg to WCAf French,

0700-0730 on 12070 SMG 250 kW / 184 deg to WCAf Hausa, very good

(DX MIX 1143)

Voice of America via SM di Galeria, August 13:

0500-0530 on 11750 SMG 250 kW / 184 deg to WCAf Hausa, good

NHK World Radio Japan via SM di Galeria on August 15:

0500-0530 on 9860 SMG 250 kW / 184 deg to WAF English, very good

Voice of America VOA via SM di Galeria, August 16:

1500-1530 on 17700 SMG 250 kW / 184 deg to WCAf Hausa, good/fair

(DX MIX 1144)

ZAMBIA - 5915 kHz R. One / ZNBC1. Regarding my recent reports of erratic reception, have received the following updated, very helpful info from Ray, on Aug 18:

"Hi, Ron. My staff in Zambia tell me that the state-run broadcaster, ZNBC, has negotiated with the state-run electricity utility, ZESCO, to be exempted from load shedding. Thus, ZNBC1 on 5915 kHz should still be on air 24x7, barring any transmission equipment failure.

At the Voice of Hope SW site, we are still seeing power outages from 06-10 hours daily with the threat of expansion of those hours in September, so our afternoon and evening broadcast schedule continues.

Ray Robinson (Voice of Hope World Radio Network, Americas/Africa/ME)"

Thanks very much to Ray for this first hand info. Recently I have not found any carrier generally before 0400 UT, but often catch the 0500 UT news in English. Needs more monitoring!

(Ron Howard-CA-USA, direct and wor dxld via wwdxc BC-DX TopNews Aug 19)

Editor's info desk was closed for this edition on August 25th, 2019, at 08:00 hours UTC.

Please also see the "List of Broadcasts in German" (Hörfahrplan Deutsch) updated regularly on the WWDXC website.

Sources & Contributors:

A-DX - e-mail exchange - Austria
BCDX - News Bulletin by Wolfgang Bueschel (**wb**) - Stuttgart - Germany.
DXLD - Glenn Hauser's DX LISTENING DIGEST (**gh**) - U.S.A.
Dr. Hansjörg Biener (hjb) - Nuremberg - Germany
Others as stated at contribution.

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Abbreviations:

with name of station:

BC / bc = Broadcaster, Int. = International, R = Radio, tx = Transmitter, Vo = Voice of, QRG = frequency

Location of transmitters with frequency:

Al = Aligarh/India, ALB = Albania, Ban = Bangalore, Be = Beijing /China, Bib = Biblis /DL, BOT = Botswana, CHN = China, CLN-TRM = Sri Lanka Trincomalee, Du = Dushanbe /TJK, ERV = Erivan /Armenia, F = Issoudun /France, Fl =Florida/USA, HAB = Habana /Cuba, Ho = Hohhot /CHN, HRI= WHRI Cypress Creek /USA, Jin = Jinhua, Kash = Kashgar/CHN, Ka = Kingsway (Delhi), Kh = Khampur (Delhi), Kll - Kall /DL, KOR = (South) Korea, Ku = Kununurra /Aus, Kun = Kunming /CHN, KWT = Kuwait, Lam = Lampertheim /DL, MDA = Moldavia, MDG = Madagascar, MNG = Mongolia, MRA = Northern Marianas, N = Nauen /DL, Nn = Nanning/CHN, OM = Oman, Pan = Panaji /India, Row = Rohrbach Waal /DL, RUS = Russia incl. Sibiria, SAI = Saipan (MRA), SNG = Singapur, STP = Sao Tomé, SWZ = Swaziland, SZG = Shijazhuang /CHN, TH = (NAK) Nakhon Sawan / Thailand, TIN = Tinian (MRA), TJK = Tajikistan, TWN = Taiwan, UAE = Al Dubbaya / United Arab Emirates, Ur = Urumchi /CHN, Wil = Winsen/Luhe (/DL, Wof = Woofferton /GB, Xi = Xian /CHN, Ya = Yamata/Japan, YAK = Yakul, Afghanistan.

Mostly within round brackets target areas as known:

Af = Africa, Am -= America, As = Asien, Aus = Australien; Eu = Europe, FE = Far East, ME = Middle East, OC / Pac = Pacific Region; C = Central, E = East, N = North, S = South, W = West

Languages:

Ar Arabic - Ch Chinese - Du Dutch - E, En English - F French - G, Ge German - Gr Greek - I Italian - J Japanese - K Korean - P Portuguese - R Russian - Sp,Spa Spanish - Turk Turkish - VN Vernacular

Technical hint with frequency (QRG):

(*) = Digital Radio broadcast (DRM) v = variable irr / # = irregular / technical problems /USB = upper sideband, /LSB = lower sideband, alt.: (QRG) = alternative frequency

Editor:

Walter Eibl (we)
Email: <we@wwdx.de> or <we@kwrs.de>

Used equipment:

Receiver: ICOM IC-R70 communications receiver (no modification)

Antennas: Hamtronic HT504 selective active antenna, in roof window ca. 15 m above ground

Situation: Herzogenaurach / Germany; 49.567/10.917; 310 m NN

also monitoring via WORLD WIDE WEB.



DX LOGBOOK

Logs around the clock

by Ashok Kumar Bose, 106 Aspermont Crescent, Brampton, Ontario, L6P 3Z3, Canada
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SHORTWAVE BANDS

Frequency	UTC	SIO	ITU	Radio Station	Language	Programme Details	Date	Rep.
3955.0	2000	454	G	KBS-WR via Woofferton	German	D, NX; ID; Hörecke	2707	SG
3975.0	1845	444	D	Shortwaveradio Winsen	English	E, ID, Rockpop, ann	0407	SG
3985.0	1600	353	D	SRF via Kall	German	D, ID, NX, rpts	0407	SG
3985.0	1700	353	D	Mi Amigo Int. via Kall	English	E, ID, rockpop, Jingles	0407	SG
3985.0	1700	353	D	RCI Montreal via Kall	French	F, ID, NX, rpts	2707	SG
3985.0	1800	454	D	RSI via Kall	German	D, ID, NX, Tourismus	0407	SG
3985.0	1830	454	D	RSI via Kall	French	F, ID, NX, rpts	0407	SG
3985.0	1900	453	D	RSI via Kall	English	E, ID, NX, rpts	0407	SG
3985.0	1930	453	D	Radio Tirana via Kall	Music	no D, IS, no ID, music	0407	SG
3985.0	1930	453	D	Radio Tirana via Kall	German	D, IS, ID, NX, rpts	2507	SG
3985.0	2000	453	D	Radio Tirana via Kall	Italian	I, IS, ID, NX, press	0407	SG
3985.0	2030	453	D	Radio Belarus via Kall	French	F, IS, ID, NX, rpts	2607	SG
3985.0	2030	453	D	Radio Belarus via Kall	Spanish	S, IS, ID, NX, rpts	2607	SG
4840.0	0159	444	USA	WWCR	English	E, ID, ann, relPX	2907	SG
5025.0	0145	444	CUB	Radio Rebelde	Spanish	S, ID, ann, rpts, MX	2907	SG
5040.0	0130	454	CUB	RHC	Spanish	S, ID, NX, en contacto	2907	SG
5840.0	1300	343	DNK	WMR via Randers	English	E, ID, Rockpop, lds	3107	SG
5890.0	2310	443	SNG	BBC-Relay	English	E, rpt; ID, talks	2807	SG
5900.0	1900	454	BUL	RTI via Kostinbrod	German	D, ID, NX, rpt, MX	2507	SG
5905.0	1200	353	D	DWD-Pinneberg	German	D, ID, Seewetter // 6180	2807	SG
5920.0	1045	252	D	HCJB Weenermoor	German	D, Predigt; ID // 7365	2407	SG
5930.0	2230	454	F	Radio Algier via Issoudun	Arabic	A, rpts Islam; ID	2807	SG
5945.0	2200	554	ROU	RRI	English	E, IS, ID, NX, rpts	2807	SG
6000.0	0010	454	CUB	RHC	English	E, ID, DXer's unlimited	2907	SG
6005.0	0500	444	G	BBC-Relay	English	E, ID, NX, rpts	2607	SG
6005.0	0735	454	D	Radio Belarus via Kall	German	D, Pop, ID, Hörerklub	2207	SG
6005.0	1015	453	D	RSI via Kall	German	D, ID, Magazin	2407	SG
6005.0	1230	352	D	RCI Montreal via Kall	English	E, ID, NX, rpts	2807	SG
6015.0	0500	454	ROU	RRI	French	F, IS, ID, NX, rpts	2507	SG
6015.0	0530	554	ROU	RRI	English	E, IS, ID, NX, rpts	2507	SG
6040.0	0028	554	ROU	RRI	English	E, ID, jazzfestival, HBF	2907	SG
6070.0	0832	454	D	Radio Wave International	English	E, ID, Rockpop-Oldies	3107	SG
6070.0	0845	454	D	Channel 292	English	E, ID, Rockpop-oldies	2407	SG
6070.0	0900	454	AUT	Radio DARC via Moosbr.	German	D, ID, Ausgabe 232, rpts	2807	SG
6070.0	1000	454	D	Welle 370 via Ch292	German	D, ID, adr, rpt Tessla	2807	SG
6070.0	1100	454	D	Radio ohne Namen	German	D, ID, ann, Rockpop	2807	SG
6070.0	1315	454	D	Channel 292	German	D, Rockpop, ID	2207	SG
6145.0	1100	454	G	Transmission-Test	English	E, IDs, MX, mail-adr	2307	SG

6145.0	1900	544	G	KBS-WR via Woofferton	French	F, ID, NX, rpts	2507	SG
6150.0	1250	453	D	Radio Marabu	German	D, Rockpop, ID	2807	SG
6180.0	1200	454	D	DWD-Pinneberg	German	D, ID, Seewetter // 5905	2807	SG
6195.0	1700	454	OMA	BBC-Relay	English	E, ID, NX, rpts	2707	SG
7250.0	2215	454	CHN	CRI	Spanish	S, ID, rpts Taiwan	2807	SG
7280.0	1800	443	VTN	LV Vietnam	Spanish	S, ID, NX, rpts	2607	SG
7280.0	1830	433	VTN	Stimme Vietnams	German	D, ID; ann; NX // 9730	2507	SG
7280.0	2000	322	VTN	VoVietnam	German	D, ID, NX, rpt // 9730	2907	SG
7285.0	0915	454	ALB	CRI-Relay Cerrick	Romanian	Rom, ID, rpt, pop // 9460	2807	SG
7290.0	1820	454	ROU	UN via IRRS	English	E, ID, rpts, Pop	2507	SG
7300.0	1720	454	IRN	IRIB	German	D, IS, NA, Koran, NX	2507	SG
7310.0	2240	554	ROU	RRI	English	E, ID, contest, adr, HBF	2807	SG
7315.0	0030	443	USA	VOV via WRMI	Spanish	S, ID, NX, rpts	2907	SG
7335.0	0545	454	USA	Radio Marti	Spanish	S, rpt capitalism, ID	2407	SG
7345.0	0500	554	G	BBC-Relay	English	E, rpts; ID // 6005	3107	SG
7365.0	1245	453	D	HCJB Weenermoor	German	D, Predigt; ID // 5920	2407	SG
7380.0	2300	343	CUB	RHC	English	E, ID, NX, rpts	2807	SG
7395.0	1800	554	CHN	CRI	German	D, IS, ID, NX, Panorama	2607	SG
7730.0	0000	342	USA	La Rose de Tokyo	Spanish	S, ID, news	2907	SG
7780.0	0030	444	USA	RSI via WRMI	English	E, ID, NX, ID, HBF	2907	SG
7780.0	0100	444	USA	Wavescan via WRMI	English	E, ID, story; DX-news	2907	SG
7780.0	0130	444	USA	World of Radio via WRMI	English	E, ID, DX- Info	2907	SG
7780.0	2300	444	USA	Full Gospel via WRMI	English	E, ID, hardcore gospel	2807	SG
7780.0	2330	444	USA	SW Radiogram via WRMI	English	E, ID, edition 110 digital	2807	SG
9420.0	0550	454	GRC	ERT Athena	Greece	Gr, ID, MX, rpt	2407	SG
9420.0	2100	554	GRC	ERT Athena	Greece	Gr, ID, rpt politica, ID	0507	SG
9445.0	2045	343	IND	AIR	English	E, ID, ann, rpts	2507	SG
9460.0	0915	454	ALB	CRI-Relay Cerrick	Romanian	Rom, ID, rpt, pop // 7285	2807	SG
9480.0	1800	554	ALB	CRI-Relay Cerrick	French	F, IS, ID, NX, rpts	2707	SG
9490.0	1310	454	ROU	Radio Romania Actualidad	Romanian	Rom, ID, rpt // 11950	3107	SG
9500.0	1845	554	ROU	Radio Romania Actualidad	Romanian	Rom, ID, Euro futbol live	2507	SG
9570.0	1800	554	ROU	RRI	German	D, IS, ID, NX, rpts	2407	SG
9570.0	2030	554	CHN	CRI	French	F, IS, ID, NX, rpts	0707	SG
9600.0	1400	454	ROU	RRI	German	D, IS, ID, NX, FBK	2807	SG
9600.0	2000	554	CHN	CRI	English	E, IS, ID, NX, rpts	0607	SG
9690.0	2145	342	E	REE	Spanish	S, ID, rpts, ann, ID	2907	SG
9690.0	2200	343	E	REE - nur Mo,Mi,Fr	English	E, TS, ID, NX, rpts	2907	SG
9700.0	0600	444	ROU	RRI	German	D, IS, ID, NX, rpts	2407	SG
9705.0	2000	554	CVA	Vatican Radio	English	E, IS, ID, NX, rpts	0507	SG
9705.0	2029	554	CVA	Vatican Radio	French	F, IS, ID, NX, rpts	2507	SG
9730.0	1830	444	VTN	Stimme Vietnams	German	D, ID; NX; rpts // 7280	2507	SG
9750.0	1730	444	CHN	CRI	Esperanto	Esperanto, ID, rpts	2707	SG
9790.0	1000	454	ROU	RRI	French	F, ID, NX, rpts // 11650	2307	SG
9830.0	0630	242	STP	DW	Hausa	Hausa, IS, ID, NX, rpts	2407	SG
9840.0	1300	454	TUR	TRT	Turkish	Turkish, ID, Popmusic	2607	SG
9840.0	1730	454	TUR	TRT	German	D, IS, ID, NX, HBF	2507	SG
9855.0	1920	444	IRN	IRIB	English	E, IS, ID, NA, Koran	0407	SG
9880.0	1750	444	IRN	IRIB	German	D, ID, rpts // 7300	2507	SG
9920.0	2000	453	THA	RTWS	German	D, IS, ID, NX, rpt	2507	SG
9920.0	2029	453	THA	RTWS	English	E, IS, ID, NX, rpts	0407	SG
9920.0	2044	453	THA	RTWS	Thai	Thai, IS, ID, NX, rpt	0407	SG
9940.0	1925	454	SWZ	TWR-Africa Manzini	Lingala	Lingala, MX, ID, adr	2507	SG
9940.0	1933	454	SWZ	TWR-Africa Manzini	Lingala	Lingala, IS, ID, relPX	2507	SG

11530.0	0915	454	MDA	Radio Denge Welat	Kurdish	Kurdish, ID, MX, rpts	3107	SG
11650.0	1000	554	ROU	RRI	French	F, ID, NX, rpts // 9790	2307	SG
11650.0	1800	454	CHN	CRI	German	D, IS, ID, NX, Panorama	2607	SG
11670.0	2100	454	E	REE	Spanish	S, ID, rpt hist // 12030	0407	SG
11775.0	1800	454	CHN	CRI	German	D, IS, ID, NX, Panorama	2607	SG
11800.0	0630	242	F	DW	Hausa	Hausa, IS, ID, NX, rpts	2407	SG
11850.0	1720	554	ROU	RRI	English	E, rpt filmfestival, ID	2707	SG
11880.0	0650	454	AUT	Adventist World Radio	Arabic	A, music; ann; ID	2407	SG
11880.0	0700	454	AUT	Adventist World Radio	French	F, IS, ID, ann, relPX	2407	SG
11940.0	2100	454	E	REE	Spanish	S, ID, rpt hist // 12030	0407	SG
11950.0	1310	454	ROU	Radio Romania Actualidad	Romanian	Rom, ID, pop, rpt // 9490	3107	SG
11980.0	1300	443	STP	DW	Hausa	Hausa, IS, ID, NX, rpts	2307	SG
12005.0	1325	554	G	Radio Farda	Persian	Persian, pop, TS, ID, rpts	3107	SG
12015.0	0600	554	G	BBC-Relay	English	E, ID, NX, rpts // 13660	2507	SG
12030.0	2100	454	E	REE	Spanish	S, ID, rpt hist // 11940	0407	SG
12065.0	1330	444	SNG	BBC-Relay	English	E, ID, NX, rpts	3107	SG
12095.0	2115	444	ASC	BBC-Relay	English	E, ID, rpt tourism	0407	SG
13665.0	1200	554	ALB	CRI-Relay Cerrik	English	E, ID, NX, rpts	2407	SG
13670.0	1340	554	CHN	CRI	English	E, ID, rpt investigation	3107	SG
13695.0	0800	554	F	RFI	French	F, ID, NX, rpts	2407	SG
13695.0	1334	343	IND	AIR	English	E, rpt; ID, popmusic	2807	SG
13750.0	1100	554	ROU	RRI	English	E, ID, NX, rpt // 15320	2307	SG
13750.0	1215	454	ROU	RRI	Arabic	A, ID, rpt political	2807	SG
13760.0	1130	454	TUR	TRT	German	D, IS, ID, NX, HBF	1107	SG
13760.0	1300	343	KRE	VoK	English	E, ID, MX, NX // 15245	2807	SG
13760.0	1700	554	CHN	CRI	English	E, ID, NX, rpts	2507	SG
13790.0	1000	554	ROU	RRI	French	F, ID, NX, rpts // 11650	2307	SG
15160.0	0900	443	KOR	KBS-WR via Kimjae	Korean	Korean, IS, ID, NX, rpts	2307	SG
15190.0	1800	454	PHL	Radio Pilipinas	English	E, ID, NX, rpts // 12120	2507	SG
15245.0	1300	343	KRE	VoK	English	E, ID, MX, NX // 13760	2807	SG
15275.0	1000	343	MDG	DW	Swahili	Swahili, IS, ID, NX, rpts	2307	SG
15290.0	0900	454	F	NHK-World Radio Japan	Japanese	J, ID, ann, rpts, MX	2407	SG
15320.0	1100	554	ROU	RRI	English	E, ID, NX, rpt // 13750	2307	SG
15335.0	0945	454	CHN	CRI	Russian	R, MX, ID, rpt, pop	2307	SG
15380.0	1200	554	ARS	Saudi Radio	Arabic	A, ID, ann, Koran	2807	SG
15400.0	0600	343	MDG	BBC-Relay	English	E, ID, NX, rpts	2507	SG
15400.0	1815	454	ASC	BBC-Relay	English	E, rpt, ID, Brexit	2507	SG
15410.0	0530	554	ROU	RRI	English	E, IS, ID, rpts // 6015	2507	SG
15450.0	1230	454	TUR	TRT	English	E, IS, ID, NX, press	2307	SG
15530.0	0530	454	KWT	Radio Kuwait	English	E, pop, ID, rpt fruits	2607	SG
15575.0	1315	352	KOR	KBS-WR via Kimjae	English	E, K-Pop, ID, rpt	2807	SG
15580.0	0500	454	BOT	VOA-Relay	English	E, ID, NX, rpts	2607	SG
15590.0	1230	454	CHN	CRI	English	E, ID, personality rpt	2307	SG
15590.0	1345	454	CHN	CRI	English	E, ID, history report	2207	SG
15595.0	0920	454	CVA	Vatican Radio	Russian	R, Messe, ID, ann	2807	SG
15605.0	1400	443	BOT	VOA-Relay	Kurdish	Kurdish, ID, NX, rpts	2207	SG
15620.0	1325	454	BOT	VOA-Relay	Somali	Somali, rpt, ID, rpt	2807	SG
15770.0	1000	343	IND	AIR	English	E, ID, NX, rpts // 17895	2407	SG
15580.0	1725	454	BOT	VOA-Relay	English	E, economy, ID	2707	SG
17490.0	1000	454	CHN	CRI	English	E, ID, NX, rpts	2407	SG
17570.0	0920	454	CHN	CRI	English	E, ID, economy	3107	SG

17615.0	1030	454	ARS	Saudi Radio	Arabic	A, Koran, ID, rpt	2307	SG
17640.0	0530	343	THA	RTWS	English	E, IS, ID, NX, rpts	3107	SG
17650.0	0915	454	CHN	CRI	English	E, ID, rpt Amazon	2407	SG
17650.0	1020	454	CHN	CRI	Chinese	Chinese, MX, ID, rpt	2307	SG
17670.0	1100	554	ROU	RRI	English	E, ID, NX, rpt // 13750	2307	SG
17720.0	0500	454	CHN	CRI	German	D, IS, ID, NX, Panorama	2407	SG
17760.0	0530	554	ROU	RRI	English	E, IS, ID, rpts // 15410	2507	SG
17780.0	1715	454	ASC	BBC-Relay	English	E, ID, rpt Hongkong	2707	SG
17800.0	0630	353	MDG	DW	Hausa	Hausa, IS, ID, NX, rpts	2407	SG
17805.0	1045	454	ARS	Saudi Radio	Arabic	A, Islam talks, ID	2307	SG
17830.0	1040	343	D	Radio Farda	Persian	Persian, pop, ID, rpt	2407	SG
17830.0	1715	454	ASC	BBC-Relay	English	E, ID, rpt Hongkong	2707	SG
17850.0	1000	353	THA	RTWS	Thai	Thai, IS, ID, NX, rpts	2507	SG
17880.0	1030	454	THA	Radio Free Afghanistan	Dari	Dari, ID, NX, rpts	2407	SG
17895.0	1000	242	IND	AIR	English	E, ID, NX, rpts // 15770	2407	SG

Here are the loggings from Rudolf Grimm, São Bernardo, SP, Brazil:

- 1440.0 BRASIL: Radio Clarim das Palmas, Itai SP, 13/08 0001. Id 'Radio Clarim das Palmas', px Igreja Pentecostal Deus é Amor, announcements to Itai, Ourinhos, Church services. 35543.
- 7265.0 MADAGASCAR: BBC, via Talata-Volondry, EE, 18/07 1702. News bulletin by female voice. 'BBC'. 35543. Tx w/265° Az to Southern Africa.
- 7305.0 USA: Radio Vaticana, via Greenville, PP, 20/08 0100. RV interval signal, male communication, 'Radio Vaticano', instrumental music, religious subjects. 35543. Tx w/164° Az, from Greenville to Northern Brazil.
- 9500.0 ESWATINI (SWAZILAND): TWR Africa, Manzini, Somali, 28/07 1531. Instrumental mx, male communication. 35543. Tx w/31° Az to Eastern Africa.
- 9515.0 BRAZIL: Radio Marumby, Curitiba PR, PP, 28/07 1522. Christian songs in PP, male communication, prayer. 35553
- 9550.0 BRAZIL: Super Rede Boa Vontade de Radio, Porto Alegre RS, PP, 28/07 1536. Religious px, male communication (2 announcers). 25542.
- 9565.0 USA: Radio Marti, Greenville, SS, 05/08 2205. Male and female voices, 'nuestros hermanos Cubanos, museo La Florida, ... Cuba'. 35543. Tx w/184° Az to Cuba.
- 9580.0 VATICAN CITY: Vatican Radio, via Sta. Maria di Galeria (ITALY), Ch, 05/08 2215. Male and female announcers, instrumental mx, 2230 IS RV. 35543. Tx w/349° Az to Northern Europe.
- 9665.0 BRAZIL: Radio Voz Missionária, Camboriu SC, PP, 28/07 1542. Instrumental mx, Christian transmission. 45554
- 9680.0 ZAMBIA: Voice of Hope Africa, Lusaka, EE, 28/07 1540. Christian songs, male and female communication. A weak signal. 15521. Better w/headphone.
- 9750.0 KUWAIT: Radio Kuwait, Sulaibiyah, AA, 13/08 1220. Female and male communication. Songs in AA. 25432. Tx w/286° Az from Sulaibiyah to Northern Africa.
- 9795.0 PHILIPPINES: FEBC, Iba, Laotian, 12/08 2345. Male communication, Christian song 'It is well with my soul' in Laotian language, message by OM. 25432. Tx w/270° Az from Iba to Southern Asia.
- 9865.0 INDIA: All India Radio, Bangalore, Hindi, 28/07 1615. Male communication, songs in Indian language (Hindi??). 35543. Tx w/38° Az to Southern Asia.
- 9955.0 USA: Gospel of the Kingdom, via WRMI, Okeechobee, EE, 13/08 1320. Man voice (preacher), '... Bible, God, Jesus Christ...'. 25432. Tx w/160° Az to the Caribbean.
- 11560.0 INDIA: All India Radio, Bangalore, RR, 04/08 1704. Female communication. 'India...'. 35543. Tx w/325° Az to Western Russia.
- 11655.0 UAE: IBRA Media / Radio Ibrahim, via Al-Dhabbiya, Afar, 03/08 1607. A song by female voice, male communication. Afar language is an Afroasiatic language belonging to the Cushitic branch. It is spoken by the Afar people inhabiting Djibouti, Eritrea and Ethiopia. 35553. Tx w/240° Az to Africa.
- 11735.0 NORTH KOREA: Voice of Korea, Kujang, Korean, 05/08. Instrumental mx, and the traditional Korean songs by female voice. 25542. Tx w/230° to Southern Asia.
- 11780.0 BRASIL: Radio Nacional da Amazonia, Brasilia, PP, 13/08 1235. News and comments by male announcer. '...para a Amazonia...'. 33543. Strong QRM from VoA 11785 kHz.
- 11815.0 BRAZIL: Radio Brasil Central, Goiania, PP, 25/07 1510. Brazilian songs, male announcer, id. 35433. Tx w/360° Az to Northern Brazil.
- 11860.0 SAUDI ARABIA: Republic of Yemen Radio, Jeddah, AA, 03/08 1532. Typical songs in Arabic style. Male communication. According WRTH 2019, broadcasts in support of Yemeni president and the Aden-based provisional government. Assumed to be aired via a transmitter in Saudi Arabia. 15421. Better reception using a headphone.

- 11885.0 MADAGASCAR: World Christian Broadcasting KNLS, via Majahanga, RR,25/07 1854. Male preacher in Russian language, a prayer, on 1857 suddenly a signal cut. 35553. Tx w/355° Az to Western Russia.
- 12095.0 ASCENSION ISL.: BBC, via Georgetown, EE, 27/07 2015. Male communication, phone-in: female reporter, China, Hong Kong, Beijing. Id 'This is BBC World Service', by YL. 45554. Tx w/27° Az to Northwestern Africa.
- 12095.0 PHILIPPINES: FEBC, Bocaue, Achang, 05/08 1222. Male communication, Christian program, hymn by group. 35443. Tx w/305° to Southeastern Asia. The Achang language is a Tibeto-Burman language.
- 12120.0 PHILIPPINES: FEBC, Bocaue, Naga, 05/08 1240. Male communication, Christian song by group. 25542. Tx w/293° Az to Center / Southern Asia. The Kuki-Chin-Naga languages are a geographic clustering of languages of the Sino-Tibetan family.
- 15016.0 USA: US Air Force Frequency with various transmitter sites all over the globe. EE, 14/08 1502. Slow alphabetical characters and numbers. 35553.
- 15100.0 CHINA: China Radio International, via Urumqi, Ch, 12/08 1250. Male communication, news bulletin, sign-off on 1257. 35543. Tx w/270° Az, from Urumqi to Europe.
- 15255.0 THAILAND: RFE / Radio Liberty, via Udon Thani, Turkmen (?), 14/08 1525. Typical instrument mx, male voices (two announcers). 35543. Tx w/308° Az from Udon Thani to Asian central region.
- 15255.0 TAJIKISTAN: Adventist World Radio, via Dushanbe, Nepali, 12/08 1310. Christian instrumental mx, female voice communication. 25552. Tx w/125° Az from Dushanbe to Southern Asia.
- 15285.0 FRANCE: Manara Radio International, via Issoudun, Hausa, 12/08 1645. Male announcer: '...Manara Radio... Manara Radio International...'. talk by 2 OM, 'Dr. Ibrahim Lemont (?)... 1658 sign-off. 35553.
- 15410.0 TURKEY: Voice of Turkey, Emirler, Uyghur, 12/08 1300. Songs by male voice, 'Turkey (?) Radio', by male communicator. 25552. Tx w/72° to Central Asia.
- 15530.0 TAJIKISTAN: Adventist World Radio, via Dushanbe, Kor, 18/07 1305. Male and female communication. A Christian song. 15331. Tx w/64° Az to Eastern Asia.
- 15640.0 GERMANY: VoA Deewa Radio (t), via Lampertheim, Pashto, 12/08 1332. Male and female communication, typical instrumental mx, talk. 35543. Tx w/92° Az from Lampertheim to Central Asia.
- 15705.0 SRI LANKA: Adventist World Radio, via Trincomalee, Ch, 12/08 1410. Female communication, instrumental mx. 25542. Tx from Trincomalee to China. It seems 15705 kHz has a // program as 15715 kHz (see above) on this time.
- 15715.0 GERMANY: Adventist World Radio, via Nauen, Ch, 12/08 1354. Christian songs, talk in Ch by male voice, instrumental mx. 25542. Tx w/75° Az from Nauen to Northern China. Better with the use of a headphone.
- 17605.0 MADAGASCAR: Adventist World Radio, via Talata-Volondry, Vietn, 20/08 2332. Christian songs by YL. Male communication. 25552. Tx w/65° Az to Southern Asia (Vietnam).
- 17800.0 ASCENSION ISL.: Deutsche Welle, via Georgetown, Hausa, 20/08 2345. Pop song, male + female communication in Hausa language. 35543. Tx w/55° Az to Western Africa.
- 17830.0 GERMANY: Radiuo Farda, via Biblis, Persian, 20/08 1352. International pop song, male communication. 35543. Tx w/85° Az to Central Asia.

Thanks a lot to our club members for their contributions:

- RG : Rudolf Grimm, São Bernardo, SP, Brazil. Kiwi SDR with mini whip-PA0RDT Standard, ETON Grundig + C. Crane Twin Coil Ferrite AM Antenna.
- SG : Siegbert Gerhard, Frankfurt, Germany. AOR AR7030 with 5m-EMF, Sangean 818 ACS & DEGEN DE1103 with telescopic antenna.

Dear Friends,

Welcome to the August/September 2019 double edition of Logbook.

My thanks to all our regular contributors.

Till our next edition.

Yours,

Ashok Kumar Bose

	<h2 style="margin: 0;">QSL CORNER</h2> <p style="margin: 0;">Editor: Dario Gabrielli, Viale della Resistenza 33b, 30031 Dolo (Ve), ITALY eMail: <qsl@wwdxc.de></p>	
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Bulgaria: Radio Taipei International 5900 kHz. Russian Service. Full data, QSL "Happy 90 anniversary RTi" 2019 - 7, received in 25 days for report to <russ@rti.org.tw> (AG)

Finland: Radio Spaceshuttle 9290 kHz. Pirate radio station. Full data e-QSL received in one day for report to: <spaceshuttleradio@yahoo.com> (AG)



Japan: Radio Japan NHK (Yamata) 7355 kHz. Russian Service.. Full data QSL card "Mountain Steam in the Spring" Received in 48 days for a report to the NHK website <https://vk.com/nippon_housou_kyoukai> (AG)

U.S.A.: Voice of America 11985 kHz. Kurdish Service. Received e-QSL in 6 days for report sent to: <gstraub@usagm.gov> (PG)

Uzbekistan: NHK Radio Japan 11730 kHz. French Service. Received f/d in 30 days. Sent also stations info. Report mailed from Prague via Czech post office to NHK World Japan Tokyo 150-8001 Japan. (PG)

The reporters of this edition of QSL CORNER have been:

AG = Alexander Golovikhin, Togliattigrad, Russia

PG = Paul Gager, Vienna, Austria

Unfortunately this edition is very small of contributions probably caused by holidays, so we hope that in the next issue the subscribers can obtain many confirmations and communicate to us so we can improve this page.

Please remember to send a .jpg scan of your QSLs if you can, so that we can show them here. Also please always include the postal or e-mail address which you sent your reception report to.

I would like to remind all contributors to please include the Service section where you sent your report to (and language of your report if not English), also the postal or email addresses you sent your report to. And please also mention if you sent any return postage e.g. IRC or money.

The typical format should be:

Country & Name of radio station & Frequency in kHz

Service and NOT Program or Programme that you wrote to

Type of QSL received e.g. QSL or e- QSL (**NOT QSL Card**), letter, Time for the reply in days

The postal or email address that your report was sent to. Any return postage (IRCs, stamps, dollars etc.)
Any other details that might be useful.

Please remember that the next deadline to contribute to this page in on **5 October 2019** because next month **DX MAGAZINE** is not printed allowing the editors to spend their holidays

Dario

English Schedules - Hörfahrplan Englisch

August 22, 2019 / 22. August 2019

Time is always UTC / Zeitangaben in UTC (Weltzeit), also MEZ (Mittel-europäische Zeit) minus 1 Stunde.

Transmissions for the (primary) target Europa printed **bold**/
Sendungen für das primäre Zielgebiet Europa sind **fett** dargestellt.

Time (UTC) Station, Program Frequencies, Transmitter Site, Day of Broadcast, Target Area

..... **00:00**

0000-0030 VoVietnam 7315/WHRI (NAm)
0000-0045 AIR 6045/Del-Kh, 7550/Ben, 9445/Ben, 11645/Del-Kh (As)
0030-0100 R Slovakia 7780/FL; Tue-Sa (LAm) 5850/FL (NAm)
0000-0100 BBC WS 5970/OM, 7300/Wof
0000-0100 CRI **7350/Kash**
0000-0100 CRI 6075/Kash, 6180/Kash, 7425/Kash, 11790/Xi, 11885/Xi, 13750/Be, 15125/Be
0000-0100 R Romania 6040, 7375 (ENAm)
0000-0100 R Thailand 15590 (NAm)
0000-0100 WRMI 7730 (NAm)
0000-0100 WWCR 1 **6115** (+ENAm)
0000-0200 CRI Beijing 6020/ALB, 9570/ALB (NAm)
0000-0200 Overcomer Min 6055/Bul, 7570/FL, 9330/wbcq, (9455/FL)
0000-0200 WBCQ 3265, 5130, 7490 (Am)
0000-0200 Mighty KBC 9925/N; Su
0000-0200 WTWW 1 **5830, 9475 (+Af)**
0000-0200 WWRB 5050, 3215/alt (NAm)
0000-0230 WINB 9265 (LAm); Tue-Sa; Mo -0300
0000-0300 HCJB Germany 3995/Wee (relay Life FM)
0000-0400 WHRI 2 **5920**; Tue-Sa (+ NA m)
0000-0400 WWCR 4 7520 Tue-Sa (NA m)
0000-0458 RNZI 13840 (Pac)
0000-0500 WHRI 7385 (NA m)
0000-0600 RHC 6000, 6165 (Am)
0000-0700 R Vanuatu 7260 (Pac) #
0000-0800 WTWW 2 5085 (NA m), (irr)
0000-0900 WEWN 11610 (ME/Af)
0000-1000 World Univ. Netw. 6090 (CAm/SAm)
0000-1000 World Univ. Netw. 5935/WWCR 2 (Af)
0000-1200 WWCR 3 **4840** (NA m)
0000-1400 WTWW -2 **5085** (LAm);
0000-2400 ADRS, Australia 5050 irr #LP
0000-2400 CFRX Toronto 6070 (relay CFRB) #LP
0000-2400 CFVP Calgary 6030 (relay CKMX) #LP
0000-2400 Solomon Island BC 5020v, 9545 (1900-1100v)
0000-2400 Unique R 5045 #LP irr (Aus)
0000-2400 Wantok R Light 7235 #
0000-2400 World Music R 5840;15805 (Sa/So) #LP
0000-2400 4KZ 5055 #LP irr (Aus)

..... **0100**

0100-0130 RAE 9395/FL ; Di-Sa
0100-0120 Kyrgyz R 4010, 4795 (CAs) (#)
0100-0130 WRMI 5010 (Tue-Sa) (Am)
0100-0130 Vo Vietnam 7315/WHRI (NA m)
0100-0200 BBC WS 5970/ERV, 12095/SNG (As)(As)
0100-0200 CRI **9470/Kash, 9675/Kash;** 9580/CUBA (NA m), 6180/Kash, 9535/Kash, 11770/Xi, 15125/Be, 15785/Be (As)

0100-0200 T8WH, Palau 15455, Su (As)
0100-0200 Vo Tajik 7245 (As)
0100-0200 WRMI 7780/FL; 5950/FL -0300
0100-0200 WWCR 4 6115 (Af) Tue-Sa
0100-0400 WWRB 1 3185 (Am)
0100-1200 WWCR 3215, 5890(NA m)
0130-0200 R Tirana 9395/FL (Am)
0130-0200 Thazin R 6030 (EAs)
0130-0200 Vo Vietnam 7315/whri (SAm)

..... **02:00**

0200-0230 Bible Voice 11945/ERV; Thu, Sa (As)
0200-0230 R Thailand 15590 (ENAm)
0200-0230 R Prag 7780/FL, 9395/FL (Am)
0200-0300 BBC WS 9670/UZB, 11795/ERV (As)
0200-0300 CRI 13640/Kash, 11770/Kash (SAs)
0200-0300 KBS 9580 (SAm)
0200-0400 T8WH 15455 (As); Su
0200-0300 WHRI 7315 (LAm); Mo -0400
0200-0300 Overcomer Min. 5850/FL. **5900/BUL, 6055/BUL,** 7570/FL, 7730/FL, 9330/wbcq (NA m/ME)
0200-0400 WBCQ 3265, 5130 (Su/Mo), 7490 Su/Mo (Am)
0200-0300 World Voice 15510/MDG (As)
0200-0330 R Pilipinas 12010, 15640, 17820 (As/Pac) + Tagalog
0200-0600 WRNO 7505v (NA m)
0200-0300 WWCR 1 3215 (Am)
0200-0500 WWCR 4 5890 (Af) Tue-Sa
0200-0500 WWRB 5050 (3185alt) Su/Mo (Am)
0200-2100 WWCR 1 6115 (NA m)
0230-0300 R Slovakia Int 9395/FL (Am)
0230-0300 R Ukraine Int. 7780/FL; Tue-Sa
0230-0300 WRMI 7780/FL; Sa/Su
0230-0330 Myanmar R 9730 (EAs)
0245-0300 AIR Home Service 4760/, 4835/, 4910/, 4970/#, 5040/, 6110/, 7290/, 7430/, 7555/, 9950/ (India)
0255-0330 Swazi R 3300 (SAf); Su

..... **03:00**

0300-0330 R Prague 9395/FL (NA m)
0300-0400 BBC WS 9440/OM, 12095/OM (ME)
0300-0400 CRI **738/M;** 9790/CUBA (NA m)
0300-0400 CRI 11770/Kash, 12000/Be, 13590/Kash, 15110/Be, 15120/Be, 15785/Be (SAs)
0300-0400 R Cultural 3300 (CA m) irr
0300-0400 R Romania 6040, 7375 (NA m) 9740*, 11825 (As)
0300-0400 R Sultanate of Oman 9540 (15355alt) (As)
0300-0400 R Taiwan Int. 15320/Palau (As)
0300-0400 R Verdad 4055 (+Sp) (CA m)
0300-0400 VoA 909/BOT, 1530/STP, 4930/BOT, 5925/BOT, 6080/STP (Af)
0300-0400 Vo Turkey 6165, **9515** (ME)
0300-0500 WINB 9265 (NA m)
0200-0500 WWCR 1 3215 (Overcomer Min. Mo-Fr) (Am)
0300-0400 World Voice 15560/MDG (As)
0300-1000 WRMI 9395/FL (NA m))
0330-0400 La Voz Evangelica 4820v (Cam); Mo #
0330-0400 WRMI 5985/FL (Am)
0340-0355 R Tamazuj 7315/F, 11650/MDG, Tue/Fr (Af)

..... **04:00**

0400-0500 BBC WS 1413/OM, 12095/OM, 13580/CLN (ME)
0400-0500 BBC WS 9915/MDG (Af)

0400-0500	Eye R	7340/VAT Mo-Fr (Af)	0600-1000	ELWA	6050 (irr)
0400-0500	CRI	13590/Xi, 15120/Be, 15785/Be, 17730/Xi, 17855/Be (SAs)	0630-0700	Thazin R	9460 (As)
0400-0500	Vo Korea	11735, 13760, 15180 (Lam)	0659-1058	RNZI	5945 (PAC)
		7220, 9445, 9730 (NEAs)			07:00
0400-0500	VoA	909/BOT (Sa/Su), 1530/STP, 4930/BOT, 4960/STP, 5925/BOT, 6080/STP, 7375/BOT (Af)	0700-0730	Bible Voice	5945/N ; Su
			0700-0730	R Myanmar	9730v (As)
0400-0500	VoA	909/BOT (Mo-Fr), 1530/STP, 4930/BOT, 7270/BOT, 9885/STP, 7375/BOT (+ VN)(Zimbabwe)	0700-0800	BBC WS	13580/MDG, 15400/MDG, 15425/UAE (E+Saf)
			0700-0800	BBC WS	7345/ASC, 9410/ASC, 9915/ASC, 15260/Wof (W+CAf)
0400-0600	T8WH	15455; Su (As)	0700-0800	CRI	1215/ALB-Flake ; 11895/Kash, 13660/Xi, 15350/Kash, 15465/Kash, 17540/Kash, 17710/Be (As)
0400-0700	WBCQ	3265irr (Am)			
0400-0500	World Voice	11825/MDG (Af)	0700-0800	PBS Zizang Lhasa / Voice of Holy Tibet	4905, 4920, 6025, 6110, 6130, 6200, 9490, 9580 (Cas)
0400-1000	Overcomer Min	9330/wbcq (Am)			
0430-0500	WHRI	7385#, 9825# (Am/ME)	0700-0900	CRI	13710/ALB, 17490/Kash ; 17670/Kash (Af/ME)
0430-0600	TWR Africa	3200; Mo-Fr; 4775 (-0700) (SAf)	0700-1800	R Mi Amigo	6085/Kll
0430-1000	R Nigeria	6090/Kaduna #, 7275/Abuja ## (Nigeria)	0700-1800	Shortwave R	3975/Wil, 6160/Wil
0445-0515	Bible Voice	7325/N; Su (Af) (+AR)	0700-1900	R Vanuatu	7260#, 3945# (SPac)
0459-0759	RNZI	9700 (PAC/Nam)	0730-0830	R Sudan	9505 irr (Eaf)
		05:00			08:00
0500-0515	ZNBC	5915 (Saf)	0800-0900	KNLS	9695
0500-0530	Bible Voice	9550/ ; Su (ME)	0800-0900	BBC WS	15620*/SNG (As)
0500-0530	R Japan	5975/OE (+Af) ; 9860/VAT, 11970/F (Af)	0800-0900	BBS, Bhutan	6035 (Mo-Fr) #
0500-0558	Vo Korea, Py	13650, 15105 (SEAs)	0800-0900	CRI	1215/ALB-Flake ; 11710/Xi (EAs), 11895/Kash, 15350/Kash, 15465/Kash, 17540Kash (SAs)
0500-0600	BBC WS	9410/MDG, 13580/UAE (Saf)			
0500-0600	BBC WS	6005/Wof, 7345/Wof, 9915/Wof (W + CAf)	0800-0900	IRRS	9510/ROM (Su)
0500-0600	BBS, Bhutan	6035 (Mo-Fr) #	0800-0900	WRMI	58507/FL, 7730/FL; Su (Am)
0500-0600	CRI	11710/ALB, 17510/Kash (Af/ME)	0800-0930	T8WH	9930 Mo-Fr (As)
0500-0600	CRI	17730/Xi, 17855/Be ; 11895/Kash, 15350/Kash, 15465/Kash, 17540/Kash (As)	0800-1000	WRMI	5950/FL; Su/Mo (Am)
			0800-1030	KBS World R	9770 (SEAs)
0500-0600	VoA	909/BOT, 4930/BOT, 6080/STP, 15580/BOT (Af)	0800-2400	Vo Guyana	3290 (SAm) #
			0815-0825	R Nepal	5005 (CAs) #
0500-0600	WHRI	9825 (ME)	0830-0845	AIR Home News Service	6085/, 6110/, 7290/, 7315/, 7380/, 7420/ (SAs)
0500-0700	Channel 292	6070/Row, 7440/Row			09:00
0500-0700	Vo Nigeria	7255# (Waf), 15120 irr (+ Naf)	0900-0930	Vo Mongolia	12085 (EAs)
0500-0700	TWR Africa	3200/SWZ, 4775/SWZ (Af)	0900-1000	BBS, Bhutan	6035 irr (Mo-Fr)
0500-0800	WRMI	9395/FL(Am)	0900-1000	CRI	17490/Kash, 17570/Ur, 17650/Kash ; 11710/Xi, 15350/Kash, 17750/Kash (Sas/Aus)
0500-0600	WRMI	5985/FL; Mo (Am)			
0500-0800	R Kuwait	11970*, 15530 (As)	0900-1000	T8WH	9930 (As)
0500-0800	Vo Hope	9680, 11680 (Saf)	0900-1100	WHRI	7315, 12015 (Am) irr
0500-1100	R Vanuatu	3945 (Pac)	0900-1200	WEWN	9470 (As)
0530-0600	R Romania	7325* , 6015 ; 15410, 17760 (As, Pac)	0930-1000	Vo Mongolia	6055/Kll
0530-0600	R Thailand	17640	0940-0955	Vo Taiwan Strait	4940 (EAs)
		06:00			10:00
0600-0658	Vo Korea	7220, 9445, 9730 (NEAs)	1000-1025	Vo Tajik	7245; Sa/Su
0600-0700	BBC WS	9410/STP, 13580/MDG, 15400/MDG, 15420/UAE (E+Saf)	1000-1030	KTWR	11995/GUM; Mo-Fr; Sa -1045
0600-0700	BBC WS	6005/ASC, 7345/ASC, 12015/Wof, 13660/Wof (W+CAf)	1000-1030	KTWR	11965/GUM; Su
0600-0700	CRI	11710/ALB, 11870/Kash, 17510/Kash (ME/Af); 11895/Kash, 13645/Xi 15145/Kash, 15350/Kash, 15465/Kash, 17540/Kash, 17710/Be (As)	1000-1030	Vo Vietnam	9840, 12020 (As)
			1000-1100	Bhutan R	6035 (CAs)
0600-0700	HLR	6190/MVP ; Su	1000-1058	Vo Korea, Py	11710, 15180 (Lam)
0600-0700	R Habana Cuba	6060, 6100, 6165 (Nam/Cam)			
0600-0700	VoA	909/BOT, 1530/STP, 6080/STP, 15580/BOT/STP (Af)	1000-1100	AIR	11735, 13650 (SEAs)
			1000-1100	BBC WS	13605/Ben, 13695/Ben, 15400*/15770/Ben, 17895/Al (SEAs/Aus), 1053/Tuticorin, 7270/Chennai (Sri Lanka)
					6195/SNG, 9900/SNG, 11945/SNG (As)

1000-1100	CRI	17490/Kash, 11635/Be; 11895/Xi, 13570/Xi, 13580/Kun, 13590/Be, 13720/Xi, 15350/Kash, 17750/Kash (Was/Cas)	1200-1500 WEWN 1200-1400 WHRI 1200-1500 WWCR 2 1200-1600 WWCR 3 1200-1530 Vo Nigeria 1200-1700 Vo Hope 1200-2400 Univ Network 1230-1300 R Tirana 1230-1300 R Canada 1230-1300 KTWR 1230-1300 R Thailand 1230-1300 Vo Vietnam 1230-1330 Vo Turkey 1245-1300 Reach Beyond Aus 1259-1650 RNZI	9470 (As) 7385, 9840 (Am) irr 7490 (5935alt)(Af) 13845 (NAm) Mo-Sa 15120 (Af) # 9680, 13680 (SAf) (Sa/Su) 11775/WWCR (NAm) 6005/Kil; Mo-Fr 6005/Kil; Su 9910/GUM (As/Pac); Sa 9390 (As/Pac) 9840, 12020 (SEAs) 15450 11945/Ku (As) 5980 (Pac) Su-Fr Sa -1858
1000-1100	HLR	7265/MVP; Su		
1000-1100	KNLS	9580 (Eas)		
1000-1100	Vo Indonesia	3325 (11875alt) (As/Pac) #		
1000-1200	T8WH	9930 (As) 9965 ; Sa/Su (As)		
1000-1200	Vo Nigeria	7255# (Waf), 9690 irr (+ Naf), 17800## (Caf/Saf)		
1000-1225	BSKSA	15250 (Af)		
1000-1400	Overcomer Min.	9395/FL (Am)		
1000-1400	R Mi Amigo	7310/Kil; Sa/Su		
1000-2200	Univ. Network	11775 (Nam)		
1030-1045	R Ethiopia	9705v irr		
1059-1258	RNZI	7425 (As/Pac)		
..... 11:00				
1100-1130	R Japan	11695/SNG (As)	1300-1400 BBC WS	11890/OM, 12065/SNG (As)
1100-1130	R Slovakia Int	6005/Kil	1300-1358	Vo Korea, Py 13760, 15245; 9435, 11710 (NAm)
1100-1130	Voice of Holy Tibet	4905, 4920, 6025, 6110, 6130, 6200, 7385 (As)	1300-1400	CRI Beijing 13670/Kash, 15590/Ur; 9765/ (WAs); 9570/CUBA (NAm); 1341/hdu-gua, 5955/Be, 9500/Kash, 9730/Be, 9870/Xi, 11910/Be, 11980/Kun, (SAs/SEAs) 11760/Kun, 9800/Kun (Pac)
1100-1135	KTWR	11965 (As) Mo-Fr	1300-1400	KBS World 9570 (SEAs), 15575 (NAm)
1100-1145	KTWR	9910 (EAs) Su (+ Chinese)	1300-1400	Shiokaze 5920/YAM, 6070/YAM (EAs)
1100-1200	BBC WS	6195/SNG, 9900/SNG, 11945/SNG (ME/As)	1300-1400	Vo Indonesia 3325 (9525valt) (EAs) #
1100-1200	CRI	1269/xua-yun, 5955/Be, 9500/Kash, 11650/Ur, 11795/Kash, 13590/Be, 13720/Xi, 15660/Kash (SAs/SEAs)	1300-1400	Vo Tajik 7245 (+ CAs)
1100-1200	HLR	6190/MVP (9485alt/MVP)	1300-1400	WRMI 15770/FL
1100-1200	R Romania	13750, 15130; 15320, 17670 (SEAf)	1300-2000	WHRI 9840, 17815, 21610alt; irr (Af/Am)
1100-1200	KTWR	11965 (As) Su	1300-2100	Reflections Europe 6295, 12255 (time var) Su
1100-1200	WHRI	5920, 7315, 7385, 9840 (Am) irr	1300-2400	WINB 9265 (LAm) irr
1100-1300	CRI	13665/ALB, 17490/Kash	1305-1330	RT Tunis 963 (NAf)
1100-1300	WINB	9265 (SAM)	1315-1330	Reach Beyond Aus 11750/Ku (Sas); Mo, Wed, Fr
1100-1200	WRMI	5950/FL (Am)	1315-1345	KTWR 7510 (As/Pac); Sa
1100-2200	WWCR 1	15825 (+ME)	1330-1400	Lao National R 7145 (As) #
1115-1245	Reach Beyond Aus	15575/Ku (As)	1330-1400	Vo Vietnam 9840, 12020 (As)
1120-1140	R Taiwan Int	12100 (As)	1330-1500	AIR 9690/Ben #, 13695/Ben (SEAs);
1130-1200	Bible Voice	9340/UZB (As) 14:00	
1130-1200	KTWR	9910 (EAs) Sa (+ Chinese)	1400-1430	Bible Voice 15265/N, Su (SAs)
1130-1200	Vo Vietnam	9840; 12020 (As)	1400-1430	R Japan 9540/UZB, 9605/GUM (ME/As)
1130-1200	Vatican R	15595, 17590 (ME) Fr	1400-1430	R Thailand 9390 (As/Pac)
1130-1200	VoA (Learning English)	1575/TH, 12030/TH, 15715/PH, 17790/PH (EAs)	1400-1430	T8WH 9965 (As)
..... 12:00				
1200-1230	Reach Beyond Aus	11875/Ku (As)	1400-1500	CRI Beijing 13710/Kash, 15590/Ur; 11880/CUBA, (NAm); 1422/kash-xin, 9765/Xi, 11815/Xi (CAs/EEu); 5955/Be, 9870/Xi, 11675/Ur, 11765/Ur, (SAs/SEAs)
1200-1230	Bible Voice	21480/MDG (As), Sa	1400-1500	HLR 9485/MVP
1200-1230	T8WH	9965 (As)	1400-1500	KNLS 9580 (As)
1200-1300	Bangladesh Betar	4750, 15105## (As)	1400-1500	Overcomer Min. 6015/N, 9330/wbcq, 9395/FL, 11600/BUL (ME, Am)
1200-1300	BBC WS	12065/SNG, 15145/OM, 15310/OM (As)	1400-1500	R Africa (PAB) 21525/FL (Af)
1200-1300	CRI Beijing	13665/ALB, 11670/Xi, 15590/Ur, 17490/Kash; 9760/Kun, 11760/Kun (Aus/Pac)	1400-1500	R Sultanate of Oman occ. Arabic
1200-1300	CRI Beijing	5955/Be, 9460/Kash, 9500/Kash, 9600/Kun, 9645/Be, 9730/Kun, 11650/Ur, 11670/Xi, 11980/Kun, 15660/Kash, (SAs/SEAs); 1341/hdu-gua, 1269/xua-yun, 1188/kun-yun, 684/dof-hai (CAs)	1400-1500	VoA 4930/BOT, 6080/BOT, 15580/BOT (Af)
1200-1300	From Isle of Music	6070/Row, 7440/Row	1400-1500	Vo Hope 9680, 13860 (Af) #
1200-1300	KNLS	7355, 9795# (EAs)	1400-1600	CRI 13685/MALI, 17630/MALI (EAf/SAf)
1200-1300	HLR	6190/MVP (9485alt/MVP)	1400-2200	WJHR 15555/USB (NAm) irr
1200-1400	Shortwave R	3975/Wil, 6160/Wil #LP, multi	1400-2400	WTWW 1 9475 (+NAm)
			1400-2400	WTWW 2 9930 (LAm) night 5085alt
			1420-1455	TWR Africa 6025/SWZ (SAf)
			1430-1445	PAB 15205/N, Su (SAs)

1430-1500	R Vientiane	6130 (As)	1615-1630	Vatican R	11950 (ME)
1430-1500	Bible Voice	15265/N, Sa (SAs)	1630-1700	T8WH	9950/Palau; Sa/Su (EAs)
1430-1600	T8WH	9930(As) Sa/Su	1630-1700	Vatican R	7360/MDG, 15565 (Af)
1430-1500	Thazin R	6165 (As)	1630-1700	VoA	909/BOT, 1530/STP, 4930/BOT, 5930/BOT Sa/Su, 15580/STP Sa/Su; (AF/ME)
1430-1500	R Slovakia Int	6055/Kil			11910/RSA, 13750/UAE, 15180/N (Sudan)
..... 15:00			1630-1700	VoA	15520 (As)
1500-1530	R Bahrain	9745 (ME) #	1630-1730	Vo Turkey	5980, 6115* (As/Pac)
1500-1530	Vo Vietnam	9840, 12020 (As)	1651-1758	RNZI	
1500-1558	Vo Korea, Py	13760, 15245; 9435, 11710 (Nam) 17:00		
1500-1700	BBC WS	7445/MDG, 5950/UAE (Af, ME)	1700-1730	Alameda Bible Fellowship	13660/F; Mo/Wed/Fr (Af)
1500-1600	CRI Beijing	13640/Kash, 15245/Kash; 1888/Kun, 1323/Ur, 5955/Be, 7205/Nnn, 7325/Be, 7395/Ur, 9675/Jin, 9870/Xi (Sas/SEAs); 11610/Kash, 9720/Ur (Af/ME); 13685/Mali, 17630/Mali (Af) 11880/CUBA (Nam)	1700-1730	Bible Voice	9810/N (ME) (Su, Thu, Fr-1815)
1500-1600	From Isle of Music	9400/BUL; Su	1700-1730	RCI	3985/Kil (Su)
1500-1600	Overcomer Min.	6000/Bul, 6015/N, 9330/wbcq, 9395/FL, 11600/BUL (ME/Am)	1700-1730	VoA	5930/STP, 13590/Wof, 15580/BOT (Sa/Su) (Af)
1500-1600	VoA	909/BOT, 1530/STP, 4930/BOT, 6080/BOT, 15580/BOT, 17530/BOT (Af) Mo-Fr	1700-1800	BBC WS	7445/MDG, 7265/MDG (E+SAF)
1500-1700	KBS World	9515; 9630 (As)	1700-1800	BBC WS	15400/ASC, 17780/ASC, 17830/ASC (W+Caf)
1500-1700	Vo Nigeria	15120, 7255 (+Naf) irr	1700-1800	CRI Beijing	12015/Be, 13760/Kash; 6165/Be, (ME) 7330/Jin, 9570/Be (Af); 1323/htb-xin, 1080/xua-yun, 6060/Kun, 6140/Kash, 6175/Nnn, 7235/Kash, 7410/Kash, 7420/Kun, 9880/Nn (EAs/CAs)
1500-1800	WRMI	7780/FL, Sa/Su (Am)	1700-1900	Overcomer Min	7780/FL (Sa/Su), 9330/wbcq, 9395/FL, 9400/BUL (ME/Am)
1500-1800	WWCR 2	12160 (7490alt) (Am)	1700-1800	R Romania Int	9760*, 11850
1500-1900	PAB	21525/FL (Af)	1700-1800	Vo Tajik	7245 (CAs) #
1500-2000	KVOH	17775, Sa (Am)	1700-2200	WMLK	9275 (+Nam) Mo-Fr #
1500-2400	University Network	13845/WWCR 3	1730-1800	Bible Voice	98100/N (Eaf) Mo
1520-1620	IRIB Tehran	9800 (As)	1730-1800	VoA	909/BOT, 5930/STP, 13590/Wof, 15580/STP, 17530/Gr (Af)
1530-1545	Bangladesh Betar	4750 (As) #	1730-1830	R Sudan / Vo Africa	9505 (Eaf) irr; time var
1530-1600	AIR	4760, 4800, 4810, 4835, 4895, 4910, 4920, 4950, 5010, 5040 (SAs) Dom Service News	1730-1930	R Pilipinas	9910, 12120, 15190 (As/Pac) + Tagalog
1530-1600	AWR	15670/N (CAs) Sa-Wed	1745-1900	Bangladesh Betar	4750#, 13580## (Voice of Islam)
1530-1600	R Afghanistan	6100 (CAs)	1745-1945	AIR	7550*/Ben, 9910/Kh, 11620/Kh, 13695/Ben (Eaf); 9445/Ben, 11935/Al (NWaf)
1530-1600	R Slovakia Int	6005/Kil 18:00		
1530-1600	Vo Mongolia	12015 (12085alt)(As)	1800-1810	R Tanzania	11735 (Af)
1540-1600	R Japan	5985/Myanmar (SEAs)	1800-1815	ZNBC I	5945 (SAF)
..... 16:00			1800-1900	Bible Voice	9810/N (ME)
1600-1630	AWR	9580/CLN, 9490/ERV (Sas)	1800-1830	TWR Africa	9500 (SAF); Sa -1900
1600-1630	T8WH	9930/Palau	1800-1858	Vo Korea, Py	13760, 15245
1600-1630	VoA	909/BOT, 1530/STP, 4930/BOT, 5930/BOT, 15580/BOT (Af)	1800-1900	BBC WS	7265/MDG, 7445/MDG, 9410/UAE (E+SAF)
1600-1630	Vo Vietnam	7220, 7280, 9730 (Af/ME)	1800-1900	BBC WS	11810/ASC, 13660/Wof, 15400/ASC (W+Caf)
1600-1658	Vo Korea, Py	9890, 11645 (ME)	1800-1900	BBC WS	6195/UAE, 7485/SNG (ME)
1600-1700	BBC WS	6040/UZB, 7345/ERV (As) ; 7445/MDG, 15400/ASC, 17640/ASC, 17830/ASC (Af)	1800-1900	CRI	9600/Be, 13760/Kash; 6165/Be (ME)
1600-1700	CRI Beijing	11940/Kash, 11965/Kash, 13760/Kash; 1323/htb-xin, 1080/xua-yun, 6060/Kun, 6175/Nnn, 7235/Kash, 9880/Be, (EAs/CAs; 11900/Jin, 15250/Ur (Af/ME)	1800-1900	VoA	909/BOT (Sa/Su), 4930/BOT (Sa/Su), 6080/BOT, 15580/BOT (Af)
1600-1700	Eye R	15410/F (Sudan) (+VN)	1800-1900	VoA	909/BOT, 4930/BOT, 6040/STP, 15460/STP (Zimbabwe) (*VN)
1600-1700	KBS World	9515, 9640 (SEAs)	1800-1900	World Voice	17640/MDG (Af)
1600-1700	Overcomer Min	6000/BUL, 7780/FL (Sa/Su), 9330/wbcq, 9395/FL, 9400/BUL, 11600/BUL (ME/Am)	1800-1900	WINB	9265; Sa/Su/Fr
1600-1700	R Taiwan Int.	9405 (6180alt) (China/Sas)	1800-2100	KBS	9785 (EAs)
1600-1700	Shiokaze	5935/YAM, 6165/YAM (EAs) (+KOR/JAP) QRG alt	1800-2100	R Kuwait	15540* (+NAm) occ. AR
1600-1700	Voice of Holy Tibet	4905, 4920, 6025, 6110, 6130, 6200, 7255, 7385 (As)	1815-2000	Bible Voice	9635/N (ME) Sa
1600-1800	R Cairo	11800 (Af) #	1830-1900	AWR	11790/CLN (Eaf)
1600-1900	Vo Hope	4965, 6065; Mo-Fr (SAf) #	1830-1930	Bible Voice	6130/ERV
			1830-1930	Vo Turkey	5945

1845-1900	R Congo, Brazzaville	4765, 6115; Sa, Su #	2100-2200	BBC WS	7310/Wof, 11810/Wof, 12095/ASC (Af)
1850-1905	ORTM Mali	5995, Su (NAf)	2100-2200	CRI Beijing	5960/ALB, 7285/ALB, 7415/Kash, 9600/Kash; 7205/Xi, 7325/Be(Af) 4950, 7215v# (Af)
..... 19:00					
1900-1930	Follow the Bible	9600/ASC, 11660/ASC; Su (Af)	2100-2200	RN Angola	1530/STP, 6195/BOT, 15580/BOT (Af)
1900-1930	Vo Vietnam	7280, 9730 (Af/ME)	2100-2200	VoA	15530 (LAm)
1900-1930	R Slovakia Int	3985/KII	2100-2200	WHRI	15770 (incl Relais)
1900-1958	Vo Korea, Py	9875, 11635 (ME) 7210, 11910 (SAf)	2100-2400	WRMI	9955 (LAm)
1900-2000	BBC WS	6195/UAE, 7265/MDG, 7445/MDG, 9410/UAE (E+SAf)	2100-2400	WRMI	9900 #
1900-2000	BBC WS	11810/ASC, 13660/Wof, 15400/ASC (W+CAf)	2130-2200	VoVietnam	7280, 9730
1900-2000	CRI Beijing	7295/Kash, 9440/Kun (ME/Waf/NAf) 22:00		
1900-2000	Overcomer Min	7780/FL, 9330/wbcq, 9395/FL, 9400/BUL (ME/Am)	2200-2230	AWR	12040/GUM (Su/Tue/Thur) (As)
1900-2000	RHC	15140 (NAm)	2200-2300	BBC	3915/SNG, 5890/SNG, 5955/UAE, 6115/UAE, 6195/SNG, 7205/OM (As)
1900-2000	SW R	3975/Wil	2200-2230	REE	9690, 11670, 11940, 12030 (Mo/Wed/Fr) (+ME/AF)
1900-2000	R Thailand	9920	2200-2300	CRI	9590/Be (As)
1900-2000	VoA	4930/BOT, 6080/BOT, 15580/BOT (Af)	2200-2300	KBS World R	11810 ; 13705 (EAs)
1900-2000	Vo Indonesia	3325 (9525v) (+As) #	2200-2300	R Romania Int	7315, 9760 ; 5945, 9790 (As)
1900-2030	R Cairo	15290 (Af) #	2200-2300	Vo Turkey	9830 (+ENAM)
1900-2100	R Vanuatu	3945 (Pac)	2200-2300	WBCQ	7490; Su-Fr (NAm)
1900-2400	WEWN	15610 (Af)	2200-2300	WHRI	9505; Sa/Su (NAm)
1900-1100	SIBC	5020v (+Pidgin)	2200-2300	WHRI	11750 (WNAm) Su
1900-2400	WEWN	15610 (Af)	2200-2400	HCJB Germany	3995/Wee (relay Life FM)
1900-2400	WINB	9265 (LAm)	2200-2400	WBCQ	7490; Su (Am)
1920-2020	IRIB	9750 ; 9855 (Af)	2200-2400	WWCR 1	6115 (+ENAM)
1930-2000	Alameda Bible Fellowship	11860/F; (Mo/Wed/Fr) (Af)	2200-2400	WWRB	5050 (3215alt) (NAm)
1951-2050	RNZI	11725 (Sa), 11690* (Su-Fr) (Pac)	2200-1000	Caribbean Beacon / World Uni. Netw.	6090 (CAm), 13845 (NAm)
..... 20:00					
2000-2030	Vatican R	7360, 9705 (Af)	2230-2300	AWR	5950/FL (LAm)
2000-2100	BBC WS	9410/Wof, 11810/Wof, 12095/ASC (Af)	2245-0045	AIR Delhi	6045/Del-Kh, 7550*/Ben, 9445/Ben, 9705/Pan(As)
2000-2100	CRI Beijing	5960/ALB, 7285/ALB, 7415/Kash, 9600/Kash; 7295/Ur, 9440/Kun (ME/NAf); 5985/Be, 11640/Mali, 13630/Mali (Eaf/SAf) 23:00		
2000-2100	VoA	909/BOT, 1530/STP, 4930/BOT, 4960/STP (Sa/Su), 6195/BOT, 15580/BOT(Af)	2300-2400	BBC WS	3915/SNG, 5890/SNG, 6195/SNG, 11825/PH (As)
2000-2100	WHRI	(9505, 13700, 15530, 17815) 11750 (+WNAm) irr	2300-2400	CRI	7350/Kash; 5990/CUBA (Caribbean); 5915/Kash, 6180/Kash, 11690/Kash, 11790/Xi, 11955/Kun (SAs)
2000-2100	WHRI 3	21610 (Af) irr	2300-0030	R Cairo	9965 (NAm) ##
2000-2100	World Voice	11965/MDG (Af)	1900-2000	Overcomer Min	5850/FL, 6055/BUL , 7570/FL, 7730/FL, 9330/wbcq (ME/Am)
2000-2100	WWCR 4	9980 (Af/Am)	2300-0100	RHC	5040 (LAm), 11880 (Af)
2000-2200	SW R	6160/Wil Mo-Sa #LP multi	2330-2400	Vo Vietnam	9840, 12020 (As)
2000-2200	WWCR 2	9350 (12160alt) (Af)		
2000-2300	Overcomer Min	6055/BUL , 9330/wbcq (ME/Am)	Time of transmissions in UTC = MET minus 1 hour		
2000-2400	WBCQ	3265, 7490 (NAm) Mo-Fr irr	Sendeziten in UTC =		
2000-2400	R Vanuatu	3945 (7260)(SPac) #	Mitteleuropäische Zeit (MEZ) minus 1 Stunde		
2030-2045	R Thailand	9920	Abkürzungen / Abbreviations:		
2030-2100	R Romania Int	6170, 7315*; 11850, 13650 (NAm)	with name of station / bei Station:		
2030-2100	Vo Turkey	9620 (SEAs)	BC = Broadcaster, Int. = International, R = Radio, Vo = Voice of		
2030-2100	Vo Vietnam	7220, 9550 (ME/AF)			
2030-0030	VoA	1296/Kabul			
2045-2230	AIR	7550*/Ben, 9445/Ben,; 9910/Al, 11620/Del-Kh, 11740/Del-Kh (Aus/Pac)			
2051-2400	RNZI	11725 (Pac)			
..... 21:00					
2100-2130	AWR	11880/OE (Waf)			
2100-2130	CRI Beijing	11640/Mali, 13630/Mali (Af)			
2100-2158	Vo Korea, Py	13760, 15245			

Location of transmitters with QRG / Senderstandorte bei Frequenz:

AI = Aligarh, ALB = Albania, Be = Beijing, Ben = Bengaluru, BOT = Botswana, BUL = Bulgarien, CLN-T = Trincomalee / Sri Lanka, Del = Delhi, ERV = Erivan/Armenien, F = France, FL = Okeechobee Florida / USA, Jin = Jinhua / CHN, Kll = Kall / Eifel / D, Kash = Kashgar / CHN, KOR = South Korea, Kun = Kunming / China, Ku = Kununurra/AUS, KWT = Kuwait, LTH = Lithuania, M = Moscow / Taldom, MCO = Monaco, MDA = Moldavia / Kichinev, MDG = Talata/ Madagaskar, MRA = Northern Marianas, N = Nauen / D, OM = Oman, Pan = Panaji, ROM = Romania, Row = Rohrbach Waal (Germany), SAI = Saipan (MRA), SNG = Singapur, STP = Sao Tomé et Príncipe, SWZ = Swaziland, TH = Nakhon Sawan / Thailand, TIN = Tinian (Northern Marianas), TJK = Dushanbe / Tajikistan, TWN = Taiwan, UAE = Al Dhabbaya / United Arab Emirates, Ur = Urumchi / CHN, UZB = Usbekistan, VAT = Vatikan, Wee = Weenermoor / D, Wil = Winsen/Luhe / D, Wof = Woofferton / GB, Xi = Xian / CHN, YAM = Yamata / Japan.

CRI MW relay stations

/cah-jil - Changchun, Jilin
 /dof-hai - Dongfang Gancheng, Hainan Island
 /har-hei - Harbin Xin/Xingfang Chenggaozizhen, Heilongjiang
 /hdu-gua - Hua/Xin Guangzhou, Guangdong Sheng
 /hnl-jia - Changzhou Heng-lin-chen, Jiangsu Sheng
 /htb-xin - Hutubi, Xinjiang
 /hua-jil - Huadian Yumuqiaozi, Jilin
 /kash-xin - Kashi, Xinjiang
 /kun-yun - Kunming, Yunnan
 /xua-yun Xuanwei, Yunnan

Within round brackets target areas as known/

In runden Klammern die Zielgebiete, soweit bekannt.

Af = Africa, Am = America, As = Asien, Aus = Australien; Pac = Pacific Region, C = Central, E = East, N = North, S = South, W = West, ME = Middle East. LAm = Latin America
 multi = multi language program / auch andere Sprachen
 VN = Vernaculars

Technical hint with QRG / Technischer Hinweis bei Frequenz:

(*) = Digital Radio broadcast (DRM)
 /USB = upper sideband /oberes Seitenband,
 /LSB = lower sideband / unteres Seitenband,
 (alt: QRG) = alternative frequency / alternative Frequenz /
 v = variable / variabel, irr = not regular
 # = mostly difficult to hear, possible transmitter break-down/off
 / meist schwieriger Empfang, eventuell Senderausfall
 ## = Sendezeiten können variieren bzw. sind nicht bestätigt in A19
 / times of transmission may vary or are not verified in A19
 #LP = low power station < 2000W

! Given transmitter sites may be changed due to propagation.

Some transmissions may be heard as well outside the target areas. This listing may be not complete (especially for WRMI, Kall), all statements without any obligations. Changes may occur within short due to interference, propagation etc./ Die Auflistung erhebt keinen Anspruch auf Vollständigkeit (z.B. WRMI, Kall), alle Angaben erfolgen ohne Gewähr. Kurzfristig sind Änderungen möglich, um z.B. störenden Stationen auszuweichen, veränderten Ausbreitungsbedingungen Rechnung zu tragen, usw.

Die Sendeperiode A19 dauert bis Ende Oktober 2019/
 transmission period A19 will last until end of October, 2019.

Hints for eventual changes etc. are always appreciated:
 Aktuelle Hinweise auf Änderungen sind stets willkommen an:

Editor: Walter Eibl,
 e-mail: we@wwdxc.de or we@kwr.de



KBS Seoul QSL card 1995



CRI Beijing QSL card 2014

SWL / Media Programs in English, German & Spanish

March 31 – October 27, 2019 – V5 As of July 14, 2019

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e-mail: <mail@wwdxc.de> URL: <<http://www.wwdxc.de>>

DX & Media news, receiver reviews, radio features, letterbox programmes, tuning tips, propagation, satellites, computers, amateur radio and radio theory.

2nd Figures behind language symbols En, Ge or Sp, indicate weeks of the month. Times and days in UTC.

STL – Satellite transmission. drm = DRM – digital mode

Monday

0000 WRMI, Sp, La Rosa de Tokio – 7730
 0009 RHC Habana, E, "DXers Unlimited" – 6000 6165 NoAM
 0040 RRI Bucharest, E, Listeners Letterbox – 6040 7375
 0045 WRMI, E, "Viva Miami" – 9955
 0100 WRMI, E, AWR Wavescan – 7780
 0109 RHC Habana, E, "DXers Unlimited" – 6000 6165 NoAM
 0130 WRMI, E, World of Radio – 7780 9395
 0130 WRN E, "World of Radio" NoAM, Satellite
 0130 WRN E, "World of Radio" AfAsPac, Satellite
 0130 WRMI, E, AWR Wavescan – 9955 + Live Stream
 0130 WRN NoAM, World of Radio, webcast / Sky Channel E
 0130 WRN AF/AS, World of Radio, webcast / Sky Channel E
 0130 WRN PAC, World of Radio, webcast / Sky Channel E
 0135 RHC Habana, Sp, "En Contacto" – 5040 6060 9535
 9640 11670 11700 11760 11840 11850 NoAM/LatAM
 0200 WRMI, E, AWR Wavescan – 5950
 0200 RRI Bucharest, Sp – 6080 7375 9510 11945
 0209 RHC Habana, E, "DXers Unlimited" – 6000 6165 NoAM
 0230 WRMI, E, World of Radio – 7780
 0230 WBCQ, Sp, Frecuencia al Dia – 7490
 0300 WBCQ, E, "World of Radio" via Area 51 – 5130v
 0309 RHC Habana, E, "DXers Unlimited" – 6000 6165 NoAM
 0330 WRMI, E, World of Radio – 9955
 0330 WBCQ, E, Hobart R International via Area 51 – 5130v
 0340 RRI Bucharest, E, Listeners Letterbox –
 6040 7375 9740-drm 11825
 0409 RHC Habana, E, "DXers Unlimited" – 6000 6165 NoAM
 0509 RHC Habana, E, "DXers Unlimited" –
 5040 6000 6060 6100 6165 NoAM
 0609 RHC Habana, E, "DXers Unlimited" –
 6000 6060 6100 6165 NoAM
 0612 RRI Bucharest, G, Mailbox – 7325drm 9700
 0830 WRMI, E, AWR Wavescan – 5850 5950 7730
 0900 WRMI, E, "PCJ Media Network Plus" – 5850 5950 7730
 0900 Unique Radio NSW, International Radio Report – 5045-usb
 0915 "RAE Buenos Aires DX" G, Kall relay – 6005
 0930 Unique Radio NSW, World of Radio – 5045-usb
 1000 Unique Radio NSW, ARDXC program – 5045-usb
 1030 AIR Delhi, E, "Faithfully Yours" 603drm 1053 7270
 13605 13695 15410 15770 17895
 1115 RRI Bucharest, E, Listeners Letterbox –
 13750 15130 15320 17670

1315 WRMI, E, AWR Wavescan – 9955 + Live Stream
 1335 DeutschlandFunk Cologne, G, Medias-res
 1345 WRMI, E, "Viva Miami" – 9955
 1430 AIR Delhi, E, "Faithfully Yours" alternate weeks –
 9690 13695
 1500 KVOH Voice of Hope, Sp, Frecuencia al Dia – 17775
 1500 DARC Radio, via ch292 Rohrbach Germany, G – 6070
 1600 WRMI, E, "Viva Miami" – 5950
 1715 RRI Bucharest, E, Listeners Letterbox – 9760-drm 11850
 1816 IRRS via Saftica-ROU, E, World of Radio – 7290
 1900 DARC Radio, via ch292 Rohrbach Germany, G – 6070
 1930 AIR Delhi, E, "Faithfully Yours" alternate weeks –
 9445 9620 13695
 2000 WRMI, Russian/Sp, "Radio Panorama" – 7780
 2100 WRMI, Sp, La Rosa de Tokio – 9955
 2100 WWCR Nashville, Sp, Frecuencia al Dia – 6115
 2130 WRMI, Sp, La Rosa de Tokio – 9955
 2210 AIR Delhi, E, "Faithfully Yours" alternate weeks –
 7550drm 9445 9910 11620 11740
 2225 WRMI, G, "RAE Buenos Aires DX" – 7780
 2240 RRI Bucharest, E, Listeners Letterbox –
 5945 7310 7325 9790

Tuesday

0000 WRMI, E, AWR Wavescan – 7730
 0015 AIR Delhi, E, "Faithfully Yours" alternate weeks –
 7550-drm 9445 11645
 0030 WRMI, E, AWR Wavescan – 7730
 0100 WRMI, E, World of Radio – 7780
 0100 WRMI, E, RAE "ARG DXers Special" – 9395
 0100 WRMI, Sp, "Antena DX" – 9955
 0100 WRMI, It, Studio DX – 5850
 0130 WRMI, E, AWR Wavescan – 5850 7780
 0130 WRMI, Sp, Frecuencia al Dia – 9955
 0300 WRMI, E, "Australian DX Report" – 9955
 0315 WRMI, E, "Viva Miami" – 9955
 0315 RRI Bucharest, E, DX Mailbag –
 6040 7375 9740-drm 11825
 0330 WRMI, E, AWR Wavescan – 5985 9955 + Live Stream
 0510 NHK R Japan, RJ Manual, E –
 5975mos 9860smg 11970iss
 0800 Unique Radio, World of Radio, alternat.week – 5045-usb
 1030 WRMI, It, Studio DX – 5950
 1110 NHK R Japan Tokyo, RJ Manual, E – 11695sng
 1120 RRI Bucharest, E, DX Mailbag –
 13750 15130 15320 17670
 1330 WRMI, E, "Viva Miami" – 9955
 1335 DeutschlandFunk Cologne, G, Medias-res
 1410 NHK R Japan, RJ Manual, E – 9450tac 9605pal
 1720 RRI Bucharest, E, DX Mailbag – 9760-drm 11850
 1845 IRRS via Saftica-ROU, E, AWR Wavescan – 7290
 1900 RRI Bucharest, Sp – 9610 11850
 1930 RHC Habana, E, "DXers Unlimited" – 15140 NoAM
 1937 RHC Habana, E, "Mailbag" – 15140 NoAM
 2030 WRMI, E, World of Radio – 7780
 2032 BBCWS E, "Click" – DAB UK, 1413oma NE / ME
 2100 RRI Bucharest, Sp – 9610-drm 11650
 2130 WBCQ, Sp, Frecuencia al Dia – 7490
 2145 WRMI, E, "Viva Miami" – 9955

2200 WRMI, E, "PCJ Radio International Plus" – 9955
 2220 RRI Bucharest, E, DX Mailbag –
 5945 7310 7325 9790
 2220 WRMI, G, "RAE Buenos Aires Letterbox" – 7780
 2300 RRI Bucharest, Sp – 9700 9760 11700 11800
 2330 RHC Habana, E, "DXers Unlimited" – 5040 USA/CAN
 2330 RHC Habana, E, "DXers Unlimited" – 7380 AF
 2330 WRMI, E, "SW Radiogram - digital" – 7780 NoAM EUR
 2337 RHC Habana, E, "Mailbag" – 5040 USA/CAN
 2337 RHC Habana, E, "Mailbag" – 7380 AF

Wednesday

0020 RRI Bucharest, E, DX Mailbag – 6040 7375
 0030 RHC Habana, E, "DXers Unlimited" – 6000 6165 NoAM
 0030 WRMI, It, Studio DX – 9955
 0100 WRMI, E, AWR Wavescan – 9955 + Live Stream
 0100 WRMI, Sp, La Rosa de Tokio – 7780
 0100-0230 WBCQ, E, Amateur Radio Roundtable – 5130v
 0130 WRMI, Sp, La Rosa de Tokio – 7780
 0130 RHC Habana, E, "DXers Unlimited" – 6000 6165 NoAM
 0137 RHC Habana, E, "Mailbag" – 6000 6165 NoAM
 0145 WRMI, E, "Viva Miami" – 9955
 0200 WTWW, E, "QSO Radio Show" by Ted Randall, – 5085
 0200 WBCQ, E, Amateur Radio Roundtable – 5130v
 0200 RRI Bucharest, Sp – 6080 7375 9510 11945
 0230 RHC Habana, E, DXers Unlimited – 6000 6165 NoAM
 0237 RHC Habana, E, "Mailbag" – 6000 6165 NoAM
 0300 WTWW, E, "QSO Radio Show" by Ted Randall, – 5085
 0300 WRMI, E, "Viva Miami" – 9955
 0320 RRI Bucharest, E, DX Mailbag –
 6040 7375 9740-drm 11825
 0330 RHC Habana, E, DXers Unlimited – 6000 6165 NoAM
 0330 WRMI, Sp, Frecuencia al Dia – 5985
 0337 RHC Habana, E, "Mailbag" – 6000 6165 NoAM
 0430 WRMI, Sp, "Antena DX" – 5985
 0430 RHC Habana, E, "DXers Unlimited" – 0437 "Mailbag"
 6000 6165 NoAM
 0432 BBCWS, "Click" E – UK DAB
 0530 RHC Habana, E, "DXers Unlimited" – 0637 "Mailbag"
 5040 6000 6060 6100 6165 NoAM
 0630 RHC Habana, E, "DXers Unlimited" – 0637 "Mailbag"
 6000 6060 6100 6165 NoAM
 0632 BBCWS, "Click" E – 6005asc 7345asc SoAF 9410sao
 9915asc 15260wof 15400mdg 15420uae AF
 0900 Unique Radio NSW, International Radio Report – 5045-usb
 0915 "RAE Buenos Aires Hoerbriefkasten" G, Kall relay – 6005
 0930 Unique Radio NSW, World of Radio – 5045-usb
 1000 Unique Radio NSW, Hobart Radio Internat. – 5045-usb
 1000 WRMI, Sp, La Rosa de Tokio – 5950
 1300 WRMI, Sp, "Antena DX" – 9955
 1330 WRMI, E, "Australian DX Report" – 9955
 1335 DeutschlandFunk Cologne, G, Medias-res
 1345 WRMI, E, "Viva Miami" – 9955
 1700 WRMI, E, "Viva Miami" – 5950
 1832 BBCWS E, "Click" – 9410uae 11810asc 13660wof AF
 1930 WWCR Nashville, E, "Ask WWCR" – 15825
 2100 WRMI / WBCQ, E, World of Radio – 9955 / 7490v
 2200 WRMI, Sp, Frecuencia al Dia – 9955

2220 WRMI, G, "RAE Buenos Aires Letterbox" – 7780

Thursday

0000 WRMI, E, World of Radio – 7730
 0000 WRMI, E, AWR Wavescan – 9955 + Live Stream
 0030 WRMI, Sp, Frecuencia al Dia – 9955
 0030 WRMI, E, AWR Wavescan – 7730
 0100 WRMI, E, World of Radio – 7780
 0100 WRMI, E, "This is a Music Show" / digital MFSK – 5850
 0130 WRMI, E, AWR Wavescan – 7780
 0130 WRMI, E, "This is a Music Show" / digital MFSK – 5850
 0145 WRMI, E, "Australian DX News" – 9955
 0300 WRMI, E, "Australian DX News" – 9955
 0330 WRMI, E, "Hobart Radio International" – 5985
 0345 WRMI, E, "Viva Miami" – 9955
 0820 Radio Belarus, "Letterbox" G, Kall relay – 6005
 1135 Voice of Turkey, G, Letterbox – 13760
 1300 WRMI, Sp, Frecuencia al Dia – 9955
 1335 DeutschlandFunk Cologne, G, Medias-res
 1345 WRMI, E, "Viva Miami" – 9955
 1444 RRI Bucharest, G, Netz Welt – 7355 9600
 1735 Voice of Turkey, G, Letterbox – 9840
 1740 RRI Bucharest, E, DX Mailbag – 9760-drm 11850
 1844 RRI Bucharest, G, Netz Welt – 6090-drm 9570
 2100 WRMI, E, World of Radio – 7780
 2235 RHC Habana, Sp, "En Contacto" – 5040 9535 9640
 11670 11760 11850 13740irr. 15370 LatAM
 2240 RRI Bucharest, E, DXM – 5945 7310 7325 9790
 2330 WINB, E, "SW Radiogram - digital" – 9265-drm NoAM

Friday

0030 WRMI, Sp, "Antena DX" – 9955
 0100 WRMI, It, "Studio DX" – 9955
 0315 WRMI, E, "Viva Miami" – 9955
 0330 WRMI, Sp, Frecuencia al Dia – 5985 9955
 0900 Unique Radio NSW, International Radio Report – 5045-usb
 0930 Unique Radio NSW, World of Radio – 5045-usb
 1000 Unique Radio NSW, Hobart Radio Internat. – 5045-usb
 1000 WRMI, E, AWR Wavescan – 5950
 1030 WRMI, Sp, Frecuencia al Dia – 5950
 1300 WRMI, E, "SW Radiogram - digital" – 15770
 1335 DeutschlandFunk Cologne, G, Medias-res
 1345 WRMI, E, "Viva Miami" – 9955
 1500 WINB, E, "SW Radiogram - digital" – 15120-drm NoAM
 1500 KVOH Voice of Hope, Sp, Frecuencia al Dia – 17775
 1500 WRMI, E, "Viva Miami" – 5950
 1530 BBC R4, Feedback, E – LW 198, MW, FM, DAB, online
 1900 ch292 Rohrbach Germany, E, "BCL News" – 6070
 1910 RTI via Sofia Bulgaria, G, Letterbox – 5900
 2030 WRMI, E, "SW Radiogram - digital" – 7780 NoAM EUR
 2100 WWCR Nashville, Sp, Frecuencia al Dia – 6115
 2200 WRMI, E, World of Radio – 9955

Saturday

0000 WBCQ, E, Allan Weiner Worldwide, Area 51, –
 3265v 7490v 9330v
 0015 WRMI, E, "Australian DX Report" – 9955
 0030 WRMI, E, AWR Wavescan – 7730
 0030 WRMI, Sp, Frecuencia al Dia – 7730 9955

- 0100 WRMI, E, RAE "ARG DXers Special" – 9395
 0100 WRMI, E, AWR Wavescan – 7780
 0130 WRMI, E, World of Radio – 7780
 0130 WRMI, E, RAE "ARG DXers Special" – 9395
 0200 WRMI, E, "Viva Miami" – 5950
 0230 WINB, E, "SW Radiogram - digital" – 9265-drm NoAM
 0300 WRMI, E, AWR Wavescan – 9955
 0400 WRMI, E, "PCJ Media Network Plus" – 7730 NoAM
 0430 HCJB Weenermoor, G – 3995 EUR
 0430 HCJB Weenermoor, G, AGDX-px by Olaf Mertens **3rd** –
 DX-Medien **x3rd** 3995 EUR
 0600 HLR via Goehren-Germany,E, Media Network+ – 6190cusb
 0615 RFI Paris, E, "The Sound Kitchen" – 11830
 0629 HLR via Goehren-Germany,E, World of Radio – 6190cusb
 0630 HCJB Weenermoor, G – 3995 5920 EUR
 0630 HCJB Weenermoor, G, AGDX-px by Olaf Mertens **3rd** –
 DX-Medien **x3rd** 3995 5920 EUR
 0930 HCJB Weenermoor, G – 3995 5920 7365 EUR
 0930 HCJB Weenermoor, G, AGDX-px by Olaf Mertens **3rd** –
 DX-Medien **x3rd** 3995 5920 7365 EUR
 1000 WRN Europe, World of Radio, webcast / Sky Channel E
 1000 Unique Radio, World of Radio, fortnightly – 5045-usb
 1005 WDR5 Cologne, Toene/Texte/Bilder, G – FM, STL, DAB-S
 1030 Unique Radio NSW, International Radio Report – 5045-usb
 1050 BBCWS E, "Over to You" – DAB UK,
 6195sng 9900sng 11945sng SoEAS / SoAS
 1100 WRMI, E, AWR Wavescan – 9955 + Live Stream
 1100 Unique Radio NSW, Hobart Radio Internat. – 5045-usb
 1105 DeutschlandRadio Kultur, Berlin, G, Breitband Media
 1130 WRMI, E, "World of Radio" – 9955
 1130 Unique Radio NSW, International Radio Report – 5045-usb
 1140 RRI Bucharest, E, DX Mailbag –
 13750 15130 15320 17670
 1200 Unique Radio NSW, World of Radio – 5045-usb
 1245 WRMI, E, "Viva Miami" – 9955
 1245 Voice of Turkey, E, Letterbox, fortnightly – 15450
 1320 SR2 Saarebruck, Medienwelt, G – FM, STL Astra, DAB-S
 1400 HLR Goehren, E, PCJ "Media Network Plus", – 9485cusb
 1431 HLR Goehren-Germany, E, World of Radio – 9485cusb
 1500 KVOH, E, AWR Wavescan – 17775
 1500 WRMI, E, AWR Wavescan – 5950
 1505 HCJB Weenermoor, G, AGDX-px by Olaf Mertens **3rd** –
 DX-Medien **x3rd** 3995 EUR
 1515 RFI Paris, E "The Sound Kitchen" – via WRMI/WRN 5950
 1600 WRN, E, "World of Radio" – EUR satellite
 1600 WRN, E, "World of Radio" – webcast / NoAM satellite
 1600 WRN, E, "World of Radio" – AfAsPac satellite
 1630 Voice of Turkey, Sp – 11930
 1630 HCJB Weenermoor, G – 3995 EUR
 1645 Voice of Turkey, E, Letterbox, fortnightly – 15520
 1730 WINB "Slow Scan Radio" E – 9265 NoAM EUR
 1740 RRI Bucharest, E, DX Mailbag – 9760-drm 11850
 1800 WTWW, E, "QSO" with Ted Randall – 9475
 1845 Voice of Turkey, E, Letterbox, fortnightly – 5945
 1900 WTWW, E, "QSO" with Ted Randall – 9475
 2000 "Hobart R Internat", E, via ch292 Rohrbach – 6070
- alternate weeks**
- 2010 KBS World Radio Seoul, G, DX **1st** – 3955wof EUR
 2015 WRMI, E, AWR Wavescan – 7780
 2045 Voice of Turkey, E, Letterbox, fortnightly – 9620
 2100 WRMI, E, World of Radio – 9955
 2105 HCJB Weenermoor, G, AGDX-px by Olaf Mertens **3rd** –
 DX-Medien **x3rd** 3995 EUR
 2106 Radio NZ Internat., E, Mediawatch – 11725 PAC
 2130 WBCQ, E, World of Radio – 9330v
 2130 WRMI, E, AWR Wavescan – 7780
 2200 WINB, E, "Franco HB9OAB" digital SSTV – 9265 NoAM
 2200 WRMI, Sp, La Rosa de Tokio – 5010
 2200 WBCQ, E, "Shortwave Saturday Night" – 7490v
 2215 Voice of Turkey, E, Letterbox, fortnightly – 9830
 2230 WRMI, E, AWR Wavescan – 5950 9955 + Live Stream
 2230 WRMI, Sp, La Rosa de Tokio – 5010
 2240 RRI Bucharest, E, DXM – 5945 7310 7325 9790
 2300 WRMI, E, "Australian DX Report" – 9955
 2330 WRMI, E, "Hobart Radio International" – 7780
 2332 BBCWS E, "Click" – UK DAB, online 3915sng 5890sng
 5955uae 6195sng 7205oma 11825pht
 2334 IPAR/IRRS, E, World of Radio – MW 567 846 1368 irr.
- Sunday**
- 0000 WRMI, E, AWR Wavescan – 7730
 0000 E, "The Mighty KBC" – 9925nau EUR
 0040 RRI Bucharest, E, DX Mailbag – 6040 7375
 0100 WBCQ, E, "Shortwave Saturday Night" – 7490v
 0100 WTWW, E, "Amateur Radio Newline" – 5085
 0100 E, "The Mighty KBC" – 9925nau EUR
 0100 WRMI, Sp, La Rosa de Tokio – 7780
 0100 WRMI, E, "Viva Miami" – 9955
 0100 Voice of Turkey, Sp – 7260 9870
 0130 WRMI, E, World of Radio – 5850
 0130 E, "The Mighty KBC" / digital tests MFSK – 9925nau EUR
 0130 WRMI, Sp, La Rosa de Tokio – 7780
 0150 BBCWS E, "Over to You" – DAB UK, 198 LW
 0200 WRMI, E, AWR Wavescan – 5950
 0200 WTWW, E, "QSO" with Ted Randall – 5085
 0200-0500 WBCQ, E, Shortwave Saturday Night – 7490v
 0230 WRMI, E, AWR Wavescan – 7780
 0300 WTWW, E, "QSO" with Ted Randall – 5085
 0300 WWCN Nashville, E, "Ask WWCN" – 4840
 0305 WDR5 Cologne, Toene/Texte/Bilder, G – FM, STL, DAB-S
 0315 Voice of Turkey, E, Letterbox, fortnightly – 6165 9515
 0315 WWCN Nashville, E, "Australian DX Report" – 4840
 0330 WRMI, E, Hobart Radio International – 9955
 0330 WRMI, E, AWR Wavescan – 5985
 0330 WWCN Nashville, E, "AWR Wavescan" – 4840
 0340 RRI Bucharest, E, DX Mailbag –
 6040 7375 9740-drm 11825
 0430 HCJB Weenermoor, G, AGDX-px by Olaf Mertens **3rd** –
 DX-Medien **x3rd** 3995 EUR
 0510 NHK R Japan Tokyo, Friends Around the World, E –
 5975mos 9860smg 11970iss
 0630 HCJB Weenermoor, G, AGDX-px by Olaf Mertens **3rd** –
 DX-Medien **x3rd** 3995 5920 EUR
 0800 WRMI, E, "SW Radiogram - digital" – 5850 7730

- 0800 SARL Amateur Radio Mirror International, E – 7082-Isb
0820 Radio Belarus, "Letterbox" G, Kall relay – 6005
0830 WRMI, E, World of Radio – 5850 5950 7730
0844 InfoRadio, Rundfunk Berlin-Brandenburg (rbb), G,
Medienmagazin – FM, DAB+, STL Astra digital
0900 DARC Radio, via ORS Moosbrunn relay, G – 6070
0900 DARC Radio, via ch292 Rohrbach Germany, G – 7440
0900 WRMI, E, "PCJ Media Network+" – 5850 5950 7730
0900 WRN Europe, E, "PCJ Media Network Plus" EUR
0930 WRMI, E, AWR Wavescan – 5950
0930 HCJB Weenermoor, G – 3995 5920 7365 EUR
0930 HCJB Weenermoor, G, AGDX-px by Olaf Mertens **3rd** –
DX-Medien **x3rd** 3995 5920 7365 EUR
0945 WWCR Nashville, E, "Ask WWCR" – 4840
0950 BBCWS E, "Over to You" – DAB UK
6195sng 9740sng SoEAS / SoAS
1000 HLR Goehren, E, "Media Network Plus" – 7265cusb
1000 Joystick, via ORS Moosbrunn relay, G **1st** – 7330
1010 Radio NZ Internat., E, Mediawatch – 5945 PAC
1030 HLR Goehren-Germany, E, World of Radio – 7265cusb
1045 WRMI, E, "Viva Miami" – 9955
1110 NHK R Japan, "Friends Around the World", E – 11695sng
1135 Voice of Turkey, G, Letterbox – 13760
1140 RRI Bucharest, E, DX Mailbag –
13750 15130 15320 17670
1200 VoHope Zambia, "AWR Wavescan" E, CeAF SoAF –
9680voh 13680voh
1205 BR5 Munich, Medienmagazin, G –
FM, STL Astra digital, DAB+, Livestream
1324 InfoRadio, Rundfunk Berlin-Brandenburg (rbb), G,
Medienmagazin – FM, DAB+, STL Astra digital [irreg.]
1330 WRMI, E, AWR Wavescan – 9955 + Live Stream
1335 RHC Habana, Sp, "En Contacto" – 6000 9535 9640
11760 13700 13740 15140 15230 NoAM/ LatAM
1400 WRMI, E, AWR Wavescan – 5950
1410 NHK R Japan Tokyo, "Friends Around the World", E –
9450tac 9625pal
1414 RRI Bucharest, G, Letterbox – 7355 9600
1435 BR5 Munich, Computermagazin, G –
FM, STL Astra digital, DAB+, Livestream
1505 HCJB Weenermoor, G, AGDX-px by Olaf Mertens **3rd** –
DX-Medien **x3rd** 3995 EUR
1530 AWR Wavescan Asia, E, FE AS CHN JPN – 15670nau
1600 AWR Wavescan, E, SoEaAS/IND – 9490erv 9580trm
1600 ch292, E, HRI DX Extra SW and Radio Nx **3rd** – 6070
1600 WRN, E, "PCJ Media Network Plus" – NoAM
1735 Voice of Turkey, G, Letterbox – 9840
1740 RRI Bucharest, E, Listeners Letterbox – 9760-drm 11850
1814 RRI Bucharest, G, Letterbox – 6090-drm 9570
1835 BR5 Munich, Computermagazin, G –
FM, STL Astra digital, DAB+, Livestream [irreg.]
1900 RRI Bucharest, Sp – 9610 11850
1902 BBC R4, E, "Feedback" – LW 198, MW, FM, DAB, online
1909 RHC Habana, E, "DXers Unlimited" – 15140 NoAM
1937 RHC Habana, E, "Mailbag" – 15140 NoAM
2015 WRMI, E, "Viva Miami" slot / "Ask WWCR" – 7780
2030 WRMI, E, AWR Wavescan – 7780
2100 RRI Bucharest, Sp – 9610-drm 11650
2100 WRMI, E, AWR Wavescan – 7780
2104 IPAR/IRRS, E, World of Radio – MW 567 846 1368 irr.
2105 HCJB Weenermoor, G, AGDX-px by Olaf Mertens **3rd** –
DX-Medien **x3rd** 3995 EUR
2130 WRMI, E, World of Radio – 7780
2200 WRMI, E, "PCJ Media Network Plus" – 5010
2200 WRMI, E, "Viva Miami" – 5950 9955
2235 RHC Habana, Sp, "En Contacto" – 5040 9535 9640
11670 11760 11850 13740irr. 15370 LatAM
2240 RRI Bucharest, E, Listeners Letterbox –
5945 7310 7325 9790
2250 BBCWS E, "Over to You" – DAB UK, 3915sng 5890sng
5955uae 6115oma 6195sng 7205oma SoEAS / SoAS
2300 RRI Bucharest, Sp – 9700 9760 11700 11800
2309 RHC Habana, E, "DXers Unlimited" – 5040 USA/CAN
2309 RHC Habana, E, "DXers Unlimited" – 7380 AF
2330 WRMI, E, "SW Radiogram - digital" – 7780 NoAM EUR
2337 RHC Habana, E, "Mailbag" – 7380 AF
- RAE broadcasts via WRMI FL-USA at present.
0100-0130 9395 Tue-Sat English
0800-0900 5950 Tue-Sat Japanese
0900-1000 5950 Tue-Sat Chinese
1100-1200 9955 Mon-Fri Portuguese
2100-2200 9395 Mon-Fri Italian
2200-2300 5010 Mon-Fri Spanish
2200-2300 7780 Mon-Fri German
2330-2400 7780 Mon-Fri French
- Web sites for DX & Media programmes:
many of these have live or archived audio or programme scripts.
- Ask WWCR <www.wwcr.com/ask-wwcr.html>
Australian DX Report <adrx.podbean.com>
AWR Wavescan <http://awr.org/program/engmi_wav-2/>
BBC R4 Feedback <www.bbc.co.uk/radio4> (live+archive)
BBC World Service "Click"
<www.bbc.co.uk/programmes/p002w6r2>
BBC World Service "Over to You"
<www.bbc.co.uk/programmes/p002vsn8>
DigiDX <<http://www.digidx.uk/>>
Hobart Radio Int "DX Extra" <www.hriradio.org>
NHK Radio Japan
<https://www3.nhk.or.jp/nhkworld/resources/brochure/pdf/rj_frequency.pdf>
PCJ Media Network <<http://radio4all.net/index.php/search>>
(search "PCJ")
R France Int "The Sound Kitchen"
<<http://en.rfi.fr/features/sound-kitchen>>
Shortwave Radiogram <<http://swradiogram.net/>>
World of Radio <www.worldofradio.com>
WRMI <www.wrmi.net>
(thanks to BrDXC-UK British DX Club item)

The Internet's Impact on International Radio by James Careless

Many broadcasters saved money by moving from high-power shortwave transmissions to the web. But at what cost?

During the height of the Cold War (1947-1991), the shortwave radio bands were alive with international state-run broadcasters; transmitting their respective views in multiple languages to listeners around the globe.

The western bloc's advocates were led by the BBC World Service, and included Voice of America, Radio Liberty/Radio Free Europe, Radio Canada International and a host of influential European broadcasters. The eastern bloc's de facto team captain was the USSR's Radio Moscow (with its unique hollow, echoing sound), supplemented by broadcasters in Soviet satellite countries (like East Germany's Radio Berlin International) and allies like Fidel Castro's Radio Havana Cuba.

Then 1991 arrived, and the Cold War apparently ended with the fall of the Soviet Union and the destruction of the Berlin Wall.

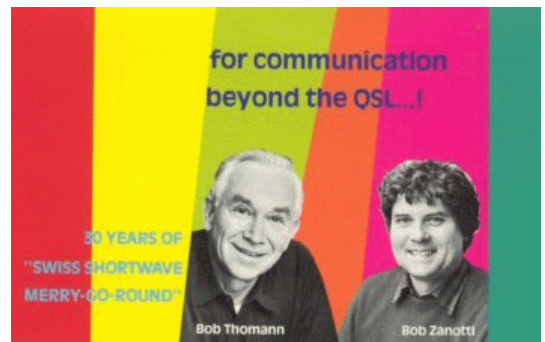
In the seeming peace that followed, many governments no longer saw the sense in spending millions on multi-megawatt transmitters and vast antenna farms to keep broadcasting their messages globally.

The leader among them, the BBC World Service (BBCWS), trumpeted the web and webcasting as modern, cost-effective alternatives to expensive shortwave broadcasting (along with satellite radio and leasing local FM airtime in the countries they used to broadcast to). This is why the BBCWS ceased shortwave transmissions to North America and Australia in 2001 and Europe in 2008, while retaining SW broadcasts in less-developed parts of the globe.

"It is my understanding that it was the BBC that started to spread the notion that shortwave was dying or already dead," said Bob Zanotti; co-host of Swiss Radio International's popular "Listener Mailbag" show "The Two Bobs" from 1970 to 1994.

(He now runs the English-language Swiss information webcaster <<http://www.switzerlandinsound.com>>)

"Swiss Radio International accepted this uncritically and was the first to announce the complete closure of its shortwave operations. Later, others like Radio Netherlands, Radio Sweden, Deutsche Welle and Austrian Radio followed suit." So did Radio Canada International, Radio Australia, Radio Budapest, Radio Portugal, Radio Finland, Radio Denmark and even Radio Moscow. Renamed Voice of Russia in 1993 (and Radio Sputnik in 2014), this Eastern European powerhouse left the shortwave bands for good on April 1, 2014.



QSL card confirming reception of "The Two Bobs" on Swiss Radio International. Credit: Bob Zanotti.

Now it is 2019, and another Cold War has resumed with the West on one side and Russia, China, Iran, and North Korea on the other. But this time, many of the powerful international voices that brought Western news and views to nondemocratic countries are now only found on the web - where adversarial governments can easily block them.

"In my opinion, the abandonment of shortwave for international broadcasting was a mistake," said Zanotti. "It was based on what many believed to be the end of the Cold War. However, events since then have proved that to have been a false (and even foolish) notion."

"Today, there is very little uncensored information available on shortwave. Classic information and entertainment are also practically nonexistent," he added. "The clever Chinese strategy seems to have been to wait for all the major western shortwave players to leave the scene, and then move in to fill the vacuum, making China Radio International virtually the only shortwave show in town."

THE SEDUCTION OF THE WEB

The official reason the BBC World Service moved away from shortwave (although not entirely) was because the web was where most 21st century listeners were going.

"Digital technology has undoubtedly come of age. Now the hype over the internet revolution is behind us, the real benefits to businesses and to broadcasters are shining through," declared then BBC World Service Director Mark Byford when he delivered the 2001 Cornwall Lecture.

"For the World Service, it means that people who could never receive our radio transmissions in the 42 languages can now listen to live output, or catch that program they particularly want to hear, at a time when it suits them, anywhere in the world."

"For media users, the internet unlocks a whole new world of information tailored to you as an individual," Byford continued. "You can listen to a program when you want. You can have your say to a global audience."

The BBC World Service's web-first focus was subsequently adopted by many state-run broadcasters, who also cut back on their shortwave broadcasts (or left the band entirely) in favor of the web.

There was logic to this argument: "Large government broadcasters, have always tried to reach the 'influencers' in a country; those who might eventually help guide a country's policy and international relationships," said Thomas Witherspoon, editor of the shortwave listener website <<http://www.SWLingPost.com>>. "And the great majority of these influencers, according to audience research, have moved to social media and the internet as a source of information."

The unofficial reason for so many governments leaving shortwave was to save money. "Shortwave broadcasting is expensive when compared with streaming or 'broadcasting' online," Witherspoon said. "The power requirements of shortwave transmitters pumping out 50, 250, or 500 kW is substantial, and the infrastructure - the large antennas, feedlines, transmitters, power supplies - all require regular maintenance from expert technicians."

Money was a major factor in the death of Radio Netherlands (in Dutch: Radio Nederland Wereldomroep), which was succeeded in other media (including the web) by RNW Media. But it wasn't the only factor; populism also played a part.

"In 2012, public international radio in The Netherlands had to stop broadcasting, said Jennifer Bushee, RNW Media's communication and stakeholder manager. "The Dutch government had decided to cut the subsidy to Radio Nederland Wereldomroep by 70%. The broadcaster was no longer seen as relevant, and there was a real effort to reduce subsidies from conservative or even more right-wing politicians. So we were cut off and had to go off the air."

ASSESSING THE IMPACT

It is true that the web has changed the very nature of international communications. In the past, only the most powerful broadcasters could address the world, simply because it took massively expensive transmission farms to send the signals out. Today, anyone can do it from the convenience of their laptop computer and their local ISP.

This said, moving away from shortwave has plunged many once-distinct international broadcasters into obscurity - and in some cases, into extinction - precisely because they are competing directly with the millions of streaming services the internet has to offer. (This extra choice has certainly cut into the audience for shortwave radio, as has the growing variety of multiple media sources in countries around the world. This said, shortwave audiences were and are not measured by any ratings services, so evidence as to their decline is mainly anecdotal.)

"What really disappoints me are the international broadcasters who have stopped shortwave in favor of internet, usually because it's much less expensive to operate, but ostensibly because the internet is 'new technology,'" said Jeff White, general manager of the commercial United States-based shortwave broadcaster WRMI Radio Miami International. "Then they end up some months later shutting down their internet broadcasts and websites also, leaving the world with no means of hearing official broadcasts from these countries. This is particularly the case in Europe."

THE SHELL OF A TITAN

In its Cold War heyday, Radio Canada International was one of the world's most listened-to international shortwave broadcasters. Popular programs like "The SWL Digest" made RCI announcer/producer Ian McFarland into a bona fide shortwave star. (Even today, airchecks of the SWL Digest are being shared online.) They were broadcast from RCI's Atlantic Ocean transmission farm in Sackville, New Brunswick.

Sackville's North American/European reach was so good that many international broadcasters rented it as a relay site. (Historical note: According to RCI's website, the first Montreal home of the then-named Canadian Broadcasting Corp.'s International Service was "a former brothel and garment factory.")

Founded in 1942 during World War II, RCI prospered until the 1991 thaw in the Cold War. Then the cuts made by successive cash-hungry governments began: First the number of broadcast languages were cut back, followed by the replacement of RCI-produced content with domestic programs made by the Canadian Broadcasting Corp.

Eventually some RCI-produced content returned, but the cuts continued: By 2012, an 80% cut in federal funding forced RCI to abandon SW and satellite radio broadcasting entirely and retreat to <<http://www.rcinet.ca>>. The famed Sackville transmission farm was torn down two years later.

"In the wake of the 80% budget cuts, RCI is down to 23 staff members, editor-in chief included and is now part of Radio-Canada's News department," said Soleïman Mellali, RCI's web editor-in-chief. (Radio-Canada is the country's French-language public broadcaster.) "Content is produced on weekdays to cover all seven days."

It took an extensive amount of staff training to get RCI's web content to its current level," said Mellali. "The team had a solid radio background but felt uneasy about RCI's transition to web-only, which has left them a bit off kilter."

The effort has paid off. According to Mellali, RCI's number of monthly visitors has tripled since its web was made more user-friendly. "Social media participation has (also) increased," he said. "On Facebook, for instance, we've shot up from 1,200 fans to over 18 000."

Nevertheless, RCI's transformation into a web-only service has substantially narrowed its scope, said McFarland, and the service's ability to reach listeners worldwide.

"When RCI deserted the shortwave bands in favor of the web, the service's philosophy also changed," McFarland told RWI. "It went from appealing to basically anyone who was interested in Canada, in what was happening here and our relationship with the rest of the world, in favor of broadcasting to people who might be interested in immigrating to Canada."

"Meanwhile, the computer was now the only way to hear broadcasts from Canada: Listeners in African, Asian and European countries who tuned to Canada on cheap shortwave receivers were no longer a segment of the worldwide listening audience that RCI was interested in reaching," he added. "This change in target audiences was a great slap in the face for RCI's long time and very loyal listeners around the world who held Canada in very high esteem for many decades of successful broadcasting on shortwave."

Other international broadcasters who have abandoned shortwave for the web have likely experienced this loss. The reason: Access to "high-speed internet is not a universal thing," said Colin Newell, a shortwave enthusiast since 1972 and operator of the shortwave listener site www.DXer.ca. ("DX" is an old Morse Code abbreviation standing for "long distance.") "It is surely widespread and available in the oddest of places, but it is not universal or universally reliable."

VULNERABILITY TO CENSORSHIP

When it comes to the fallout from international broadcasting moving to the web, there is one fact that everyone agrees on; namely the internet's vulnerability to censorship by hostile powers.

Back when international programming was delivered via multiple high-powered shortwave transmitters using many locations and shortwave frequencies, "jamming of broadcasts was an expensive and often ineffective method of blocking 'the message,'" said Newell. Today, "jamming is as simple as a few clicks of a mouse on a national internet service. Full scale censorship is a significantly easier technological exercise."

The bottom line: Today's international broadcasters are nowhere near as capable as their Cold War predecessors were in getting messages through to the "other side" - and those who rely solely on the web can't guarantee content delivery at all.

This is a textbook case of irony. By eschewing shortwave for the web, many international broadcasters have lessened their ability to serve their target audiences at all times; and in some cases, eliminated this capability entirely.

Take RCI: During the Cold War, its shortwave signals managed to reach listeners in the Soviet bloc. But today? Should he ever want to, Vladimir Putin could cut RCI off from Russian audiences in seconds.

Now it is theoretically possible that RCI could return to shortwave broadcasting. But this would require building a new transmission farm.

The demolished Sackville site isn't available. Several New Brunswick Mi'kmaq indigenous communities purchased its cleared 90-hectares in 2017 to add to the Fort Folly First Nation reserve. But even if it were, the Canadian government would be unlikely to spend the money required to build a replacement shortwave facility. This is likely true in other

countries that have demolished their shortwave transmission sites as well.

The inescapable conclusion: Moving to the web has fundamentally compromised international broadcasting's ability to do its job, compared to what it could do back in shortwave's glory days. And unless something happens to motivate governments to reinvest in expensive shortwave broadcasting, this will remain the case from now on.

(Radio World - August 1, 2019 -

<<https://www.radioworld.com/news-and-business/the-internets-impact-on-international-radio>>)

A LOOK BACK AT SIX DECADES OF VOA BROADCASTING IN CZECH by Brian Kenety

Voice of America (VOA), today the largest U.S. government-funded international broadcaster, ceased its Czech language broadcasts exactly 15 years ago today, on 27 February 2004, shortly ahead of the country's accession to the European Union. The move followed budget cuts by the U.S. Congress and, the Cold War long over, a shift to "new audiences and new priorities". We look back at the station's local legacy.



VOA began broadcasting in the Czech language in 1942, the year it was established, and continued to do so throughout the Cold War, when it was for the most part less subject to jamming than its more famous counterpart, Radio Free Europe/Radio Liberty.

"The Voice", as the station is also known, was born during the propaganda battles of World War II. It was continued during peacetime under a special act to combat Soviet propaganda and operated by the U.S. State Department.

In its early days, the Czech broadcast was best known to listeners for shows featuring the comedic acting duo of Jiri Voskovec and Jan Werich, who broadcast to their occupied country via VOA. In a 1945 piece airing on the anniversary of Czechoslovakia's foundation, Werich, then in New York, addressed listeners at home:

"Greetings friends, this is Voskovec minus Werich, at my American eyepiece. Today we're celebrating our October freedom. After the first October 28, in 1918, today is the most beautiful of all the twenty-seven October 28s since then. Not just because after so many years we are celebrating it freely again - this year as well as our October freedom we also have our May freedom."

RFE/RL concentrated on the internal affairs of the Soviet Union and its satellites. VOA, as the official spokesman of the American government, was somewhat less provocative - its mission being to inform the world about Washington's take on events, not to present a direct alternative source.

And so it was tolerated. In April 1964, for example, while Czechoslovakia discontinued its jamming of VOA and the BBC, it still blocked RFE transmissions. After the Warsaw Pact invasion, the USSR resumed massive jamming of both, until 1973.

This isn't to say VOA was apolitical. For example, journalist Ivan Medek, based in Vienna, regularly delivered news about the Charter 77 protest movement. And by the second half of the 1980s, VOA was more openly political, and the most listened to foreign station broadcasting in Czech. It got its first Prague correspondent, the Czech-speaking US journalist Jolyon Naegele - who interviewed dissidents and Charter 77 signatories such as Václav Havel and Jiri Dienstbier.

But it may have been "soft power" - programmes dedicated to books, film and music - that drew most listeners in. Writer Josef Skvorecký, for example, hosted a show reviewing books and interpreting literature. Sometimes, broadcasters even explained the English-language lyrics - in real time - such as to Louis Armstrong's "It's a Wonderful World".

As noted by the Prague-based Institute for the Study of Totalitarian Regimes, the broadcasts of both RFE/RL and VOA reflect various phases in Western policy over the decades, from "containing Communism" to "the emancipation of subjugated countries" to gradualism (efforts to support natural liberalisation within Eastern Bloc states), détente (relaxation of relations after accepting the fixed status of the other side), the New Cold War, and its conclusion.

(<https://www.radio.cz/en/section/curraffrs/a-look-back-at-six-decades-of-voa-broadcasting-in-czech> 27 February 2019 via Dr Hansjoerg Biener)

The Shortwave Station in England that Refused to Die: The Woofferton Story

The mighty BBC shortwave station located near Woofferton in England is now 76 years old; it has survived three occasions when it was completely closed down; it was sold off to a management company; it has undergone six different eras of modernization; it is entirely located in England, not half in Wales as some have suggested; it is the last surviving shortwave broadcasting station in England; and it still carries a relay of BBC and VOA programming. We go back to the beginning.

Woofferton is but a small village in county Shropshire, and as far as shortwave radio is concerned, it is located about halfway between what were two other important shortwave stations, Rampisham and Skelton. Rampisham is 125 miles due south of Woofferton, and Skelton is 200 miles to the northeast. Except for the BBC shortwave station, the only other likely item of tourist interest in Woofferton is the old railway station and railway junction that served the village for more than a hundred years until its closure in 1961.

Soon after World War II began in continental Europe, the government in England directed the BBC to treble the broadcast of its overseas programming, and for this purpose three new shortwave stations were needed. In addition to the already-established legendary station at Daventry, sites for these three new stations were chosen at Rampisham and Skelton, with Woofferton just 20 miles from the border with Wales.



Shortwave radio station Woofferton (Wikipedia)

1. Woofferton Shortwave Station: First Era

A total of 183 acres was acquired near the village of Woofferton, a property in the extreme south of County Shropshire, which straddles the east-west boundary between the two counties, Shropshire and Herefordshire. These two shires lie against the English border with Wales, and the boundary between the two shires is a small stream which runs through the antenna field of the shortwave station.

Work began on this new property in 1942, and a building was constructed to house six new RCA 50 kW shortwave transmitters, Model MI7330, from the United States, and all of the ancillary equipment. Due to the fact that this station was being constructed upon a low-lying area where the water table was only a few feet underground, RCA transmitters were chosen because they did not need a basement level like the English made Marconi transmitters at that time.

However, the first shipment, containing much of the electronic equipment from the RCA factory in Camden, New Jersey, was lost when the ship that was on convoy from the United States was sunk by a German submarine. Subsequently, five more shipments were sent on separate occasions, and finally all of the needed electronic equipment was assembled and installed into the new transmitter building at Woofferton.

A total of 15 triangular transmission towers were erected, ranging in height from 150 feet to 325 feet. These towers collectively were assembled with nearly half a million nuts and bolts, and the total weight for any one of the taller towers was just on 100 tons. A total of 26 curtain antennas was suspended from the towers; behind each of the 13 active arrays was a passive earthed reflector.

Installation of the six transmitters began in February of the following year (1943), and they were installed in pairs, with thick bomb-proof walls in between. The first four units were taken into regular service for the Voice of America on October 17 (1943), and the remaining two were activated in the same way during the next month, on November 21. The BBC also utilized this new station for the broadcast of its own programming to overseas target countries.

However, less than a year later, on August 28, 1944, the station was closed so that needed parts could be removed and installed at Crowborough. The transmitter site at Crowborough was already in use as the secret underground location for Aspidistra, where 3 American mediumwave transmitters at 175 kW each, when combined, provided a massive output power of 500 kW.

The RCA transmitter parts, when installed at Crowborough, were planned for use in disabling the guidance systems in German V-bombs that were aimed at London. That was the conclusion of the First Era at the BBC-VOA shortwave station at Woofferton.

2. Woofferton Shortwave Station: Second Era

However, the suggested procedure at Crowborough proved to be ineffective; consequently, the parts and pieces of the six RCA transmitters were re-assembled and renovated and reinstalled back at Woofferton. Of these senders, as the BBC called their shortwave transmitters, numbers S85 and S86 were taken back into full service in October of that same year (1944), and two more, S83 and S84, were returned to full service in January of the following year (1945). Likewise, sender S81 was reintroduced into full service during the next year again, on May 1, 1946. Thus 5 of these original 6 RCA transmitters were now all back on the air at Woofferton once more.

By the end of World War II, the entire electrical grid in England was showing signs of old age and excessive wear from over-usage, and there was also a shortage of coal at the generating plants. Thus, in October 1947, the Woofferton shortwave station was required to use its own generating capability for four hours daily.

The three generators, rated at 750 horse power at 500 revolutions per minute, emitted a thunderous roar, and the exhaust turbo chargers emitted a high pitched scream, the combined noise of which could be heard for miles. This ear-damaging situation pervaded for a period of some eight months, up until total grid power was resumed in May of the next year, 1948.

However, by this time the BBC was becoming financially strapped, and as an economy measure, the Woofferton shortwave station was closed and the staff were dismissed just a month later, on June 26, 1948. That was the conclusion of the Second Era at the BBC-VOA shortwave station at Woofferton.

3. Woofferton Shortwave Station: Third Era

But that was not the end of the Woofferton shortwave station. Once again, the Voice of America to the rescue! Give three weeks more, and VOA took over the Woofferton shortwave station. VOA programming for 8 hours a day was transmitted on shortwave from the United States to England, and it was received at the BBC Receiving Station at Tatsfield.

From Tatsfield the programming was fed by wire to Bush House in London, and from thence onward to Woofferton. At this stage, 5 of the 6 RCA transmitters were in still use, and likewise all of the same original 26 curtain arrays.

As on previous occasions, BBC programming was also heard again from Woofferton. Ten years later again (September 1958), the sixth RCA transmitter was activated at Woofferton; apparently the remaining silent transmitter from the original 6 had been renovated and taken back into service.

Three years later, on March 26, 1961, the BBC dropped its programming from Woofferton, thus leaving VOA as the sole user of the Woofferton shortwave station. That was the conclusion of the Third Era for the BBC-VOA shortwave station at Woofferton.

4. Woofferton Shortwave Station: Fourth Era

Because of the Cold War standoff between Russia and the West, and the accompanying Berlin Blockade, with the building of the Berlin Wall, the Woofferton station once again assumed its importance in the shortwave radio world. Suddenly, on September 13, 1961, the Woofferton shortwave station was again on the air full time, 24 hours a day, with a program relay from both the BBC in London and the Voice of America in Washington, D/C.

However, the old original 50 kW RCA transmitters were now ailing, their usefulness was ended, and they needed to be replaced. In addition, much higher power was now needed in order to cover the desired target areas with an adequate shortwave signal.

The Voice of America funded the installation of 6 new Marconi transmitters at 250 kW each, Model No BD272, and they scrapped all of the old RCA transmitters, though two were retained for spare parts, S85 and S86. The first of the new 250 kW transmitters was taken into service on September 30, 1963, and all 6 were in regular service just 18 months later, with now an antenna field of 35 antenna systems, mostly curtains. However, by that stage the BBC had withdrawn its programming from the station, thus leaving once again just the VOA on the air from the Woofferton shortwave station.

Interestingly, a 100 kW Marconi transmitter Model B6123 was temporarily installed at Woofferton, in the space previously occupied by the silent 50 kW RCA S85. This new transmitter, listed as Sender 107, was destined for installation at the BBC Relay Station near Tebrau in Malaysia, and it underwent an era of testing at Woofferton

beginning on March 29, 1971. Programming for these unpublicized test transmissions was a relay of the BBC World Service in English.

Programming from VOA in Washington, D.C. continued on air from Woofferton during this Fourth Era, up until the year 1980, when VOA implemented another modernization plan.

That was the conclusion of the Fourth Era at the BBC-VOA shortwave station at Woofferton.

5. Woofferton Shortwave Station: Fifth Era

The Fifth Era at the Woofferton shortwave station began in the year 1980, with another spate of development and modernization by the Voice of America. Final remains of the original 50 kW RCA transmitters were removed, leaving just the 6 Marconi made 250 kW units, Model BD272 in place.

In this 1980 renovation and upgrade, 4 additional new Senders were installed at Woofferton by VOA, and these were Marconi transmitters rated at 300 kW each, Model B6124. In addition, the 3 power generators were also removed. Full power was applied to all four new transmitters in December 1980, and they were taken into regular broadcast service in September of the following year (1981).

Give nearly 16 more years, and the Woofferton shortwave station was sold off to a management company, Merlin, in April 1997.

That was the conclusion of the Fifth Era at the BBC-VOA shortwave station at Woofferton.

6. BBC Shortwave Transmitting Station Woofferton: Sixth Era

The Sixth and current Era at the Woofferton shortwave station began in April 1997 when Merlin took over the station as a private commercial enterprise; the station was no longer owned and operated as a BBC shortwave station, nor as a VOA shortwave station. Two remarkable endeavors were implemented at the Woofferton shortwave station under the ownership and management of Merlin (and the subsequent owner organizations) during this past quarter century of privatization. These two endeavors were another upgrade of shortwave transmitters, and the surprising number of other broadcasting entities that sought international shortwave coverage from this large station.

During the years 2006-2008, four new high power shortwave transmitters were installed at Woofferton, all made by RIZ in Zagreb, Croatia. These analog transmitters are also DRM compatible, and they are rated at 250 kW and 500 kW.

The current deployment of transmitters at the Woofferton shortwave station is as follows:

Marconi	2	250 kW	1963
Marconi	4	300 kW	1980
RIZ DRM also	1	500 kW	2006
RIZ DRM also	3	250 kW	2007-8

During the past quarter century, more than 25 different radio organizations have been on the air from the Woofferton shortwave station, in addition to the BBC itself and also the Voice of America. Christian religious organizations have included HCJB, Quito, Ecuador, IBRA Radio, TWR Africa, and Family Radio in Oakland, California.

Among the various government-operated shortwave stations, the following have provided programming for broadcast from the Woofferton shortwave station: Radio Australia, Deutsche Welle, Germany, Radio Taiwan International, KBS South Korea, Radio Polonia, Warsaw, Poland, Voice of Vietnam, NHK Tokyo, Radio Canada International, and Radio Wales.

Unknown at the time, Radio Netherlands in Holland has on occasions transferred its shortwave programming from its home-based shortwave stations to Woofferton during times of maintenance and development; and likewise the United Arab Emirates has also transferred its schedule of international programming to Woofferton in times of outages at its large shortwave station at Al Dhabbaya.

Although the BBC has never regularly issued specific QSL cards for its broadcasts from Woofferton, most of the other stations have done so, including Deutsche Welle, Radio Australia, Radio Canada International, and a host of other stations.

(Adrian Peterson-IN-USA, script of AWR "Wavescan" DX Programmes # 533 & 535)

The Radio Scene on Diego Garcia in the Indian Ocean by Adrian Peterson

Diego Garcia, in the Chagos Archipelago, is 37 miles long, it is mostly covered with coconut trees, and there are no dangerous animals on the island, though there are wild horses and wild donkeys as a leftover from the colonial days.

Diego Garcia is an island of dispute between Great Britain and Mauritius. Let's see now what happens next in our sequence of information regarding the island called Diego Garcia.

Before we get to the radio scene, though, we note that the first postage stamps issued on Diego Garcia, in 1968, showed a series of land and sea animals from the Seychelles Islands. These stamps were overprinted in black with the initials BIOT, identifying the British Indian Ocean Territory. Since then, the postal service in the British Indian Ocean Territory has issued more than 500 different stamps which have been in use mainly on the capital city island Diego Garcia.

As a result of negotiations between the United States and Great Britain, work on a large joint radio communication station on Diego Garcia began in 1971. Two facilities were constructed.

The transmitter station is located at the northern edge of the island on the western side of the lagoon, adjacent to the south of what was the huge circular Wullenwever receiver station, or the Elephant Cage, as these massive aerial systems were known colloquially. The receiver station is located a dozen miles distant, almost at the southern tip of the island.

Very little has been made known of the technical equipment at the American communications station on Diego Garcia. However, we do know that at least some of their transmitters are rated at 3 kW; the international callsign is NKW; and one of its major purposes is for rapid communication with security personnel and with wide area international events in the Asian and Middle Eastern scene.

In 1978, for example, a total of 78 shortwave frequencies were listed for use at station NKW. This shortwave station is still on the air to this day with the transmission of electronically coded information.

Beginning in the year 2000, AFN-American Forces Network programming was broadcast from NKW and beamed to American forces in Afghanistan. The daytime frequency was 12579 kHz, and the nighttime frequency was 4319 kHz, both in USB (Upper Side Band) mode.

The shortwave channels were heard, and verified, by international radio monitors living in Europe, North America, India, Sri Lanka, and the South Pacific. This program relay was on the air for a period of 15 years, and it came to an end in mid-2015.

Perhaps of even greater interest to the international radio monitor than their program rely on shortwave was their mediumwave station, which was on the air with an irregular callsign, and obviously with approval from the local authorities. The AFRTS American Forces Radio TV station on Diego Garcia identified on air as AFDG, American Forces Diego Garcia, and it was launched as Radio Reindeer with 25 watts on 1475 kHz in 1972.

The original studio and transmitter were housed in a back room in the Special Services Building, and most of the programming was produced locally and very informally. Inserted programming came from AFRTS studios in the United States.

The existence of AFDG mediumwave on Diego Garcia was unrecognized internationally until the noted international radio monitor in Colombo Sri Lanka, Victor Goonetilleke, heard this lonesome and isolated station on 1475 kHz. At that stage it was said to be operating with 50 watts.

Four years later, the station was on the air with an increase in power to 250 watts, though the operating channel was still the split frequency 1475 kHz. Accurate reception reports were received from Japan, New Zealand, India, the Maldive Islands, and Sri Lanka, all of which were ultimately confirmed by the volunteer station staff. Dr. S. Chowdhury, from the Indian DX Club International in Calcutta, visited South India for the express purpose of listening to AFDG and making sample recordings of its programming.

Around the mid-1980s the station moved up 10 kHz to another split channel, 1485 kHz. Then during the year 2015, the mediumwave transmitter, a professionally-made CPA transmitter from the United States, was silenced forever, though the 135 ft. tower still stands.

An FM transmitter with 10 watts on 101.9 MHz began a full-time relay from the mediumwave station in 1978, and nearly 10 years later a new 200 watt transmitter was installed. These days, AFDG is on the air from 2 FM transmitters with separate programming, 99.1 and 101.9 MHz, together with 4 channels of TV at 200 watts each.

In addition, BFBS radio and TV programming from London is also available over the air on Diego Garcia on several channels, some of which are linked with programming from Nepal in the Nepali language. Cable & Wireless was established in Diego Garcia in 1982; and there was an amateur radio station on the island, a club station with the call VQ9X, for a period of nearly 23 years, running from 1991 to 2013.

QSLs from AFDG mediumwave are quite rare, and these were issued by mail and electronically to a few international radio monitors who were fortunate enough to log this exotic little radio station. Victor Goonetilleke heard the station again while on a DXpedition to a small island near Colombo, Sri Lanka and he received two QSLs by post in the same envelope, one verifying his most recent mediumwave logging, and the other verifying an earlier shortwave report.

Another international radio monitor who was living in India at the time heard AFDG Diego Garcia mediumwave while he was on a professional itinerary to the Maldive Islands in 1985. After sending a reception report to the station several times, he received two self-prepared QSL cards through the post, one in 1986 and another in 1987.

(Adrian Peterson-IN-USA, script for AWR "Wavescan" # 537 of June 9, 2019)

TWR marks 65 years in ministry by Beth Stolicker (Mission Network News)

In February 2019, Trans World Radio, who strives to share God’s Word through mixed media, marked 65 years in ministry.



Paul Freed and Burt Reed in the studio in Tangier, 1957 (Photo courtesy of TWR)

TWR’s first-ever broadcast aired from Tangier in Northern Africa on February 22, 1954. In a press release, TWR says this first broadcast reached across “the Strait of Gibraltar to Spain, where Protestants were a vanishingly small minority” facing governmental bans on evangelism and even discrimination.

Then, when Morocco gained its independence and Tangier was reunited with the country, TWR was asked to leave. The organization moved to Monte Carlo and shared a facility with Radio Monte Carlo. During the day, Radio Monte Carlo when to work, and at night TWR took over. It was here where TWR really began to have a global influence.

Ten years after the first broadcast, TWR was reaching most of Europe and expanding further into the world. Through radio, the ministry slipped into areas no Christian worker could, like the Iron Curtain. Radio has a way of providing information regardless of governmental regulations. It has been key in TWR sharing God’s Word across the globe, expanding to the ends of the earth.

TWR Today

“We’re still in broadcast. We have 21 transmitting locations around the globe, high power transmitters of anywhere from 200,000 to 500,000 to a million wats. We talk [to] a potential listening audience on the air of 4.2 billion people each and every day. Then globally, digitally, we talk to about 40,000-50,000 people on our app, TWR 360, every day,” President and CEO of TWR, Lauren Libby says.

TWR broadcasts in 230 languages in 190 countries with an average audience age of 16 to 18-year-olds and up. This means the organization is reaching every country on this planet apart from six. Plus, it’s reaching multiple generations through cross-platform promoting via radio, social media, print, digital media, apps, and more.

RADIO FREE ASIA QSL CELEBRATES 23rd ANNIVERSARY

Radio Free Asia (RFA) announces its 23rd anniversary QSL. The design was created by RFA's Brian Powell. Bringing free press to closed societies, RFA's first broadcast was in Mandarin on September 29, 1996 at 2100 UTC. RFA is a private, nonprofit corporation broadcasting news and information to listeners in Asian countries where full, accurate and timely news reports are unavailable. Acting as a substitute for indigenous free media, RFA concentrates coverage on events occurring in and / or affecting Cambodia, Laos, Myanmar, North Korea, the People's Republic of China and Vietnam. In some Asian cultures, bamboo represents integrity, elegance, modesty and loyalty. This is RFA's 71st QSL and is used to confirm all valid RFA reception reports from **September to December 2019**.



Created by Congress in 1994 and incorporated in 1996, Radio Free Asia (RFA) broadcasts in Burmese, Cantonese, Khmer, Korean to North Korea, Lao, Mandarin (including the Wu dialect), Vietnamese, Tibetan (Uke, Amdo, and Kham) and Uyghur. RFA strives for accuracy, balance, and fairness in its editorial content. As a 'surrogate' broadcaster, RFA provides news and commentary specific to each of its target countries, acting as the free press these countries lack. RFA broadcasts only in local languages and dialects, and most of its broadcasts comprise news of specific local interest. More information about Radio Free Asia, including our current broadcast frequency schedule, is available at www.rfa.org. RFA encourages listeners to submit reception reports. Reception reports are valuable to RFA as they help to evaluate the signal strength and quality of the transmissions. RFA confirms all accurate reception reports by mailing a detailed QSL card to the listener. RFA welcomes all reception report submissions at <http://techweb.rfa.org> (follow the QSL REPORTS link) not only from DX'ers, but also from its general listening audience. Upon request, RFA will also send a copy of the current broadcast schedule and a station sticker. Reception reports are also accepted by email to <qsl@rfa.org> and by mail to:

Reception Reports
Radio Free Asia
2025 M. Street NW, Suite 300
Washington D. C. 20036
United States of America



Radio Free Asia
www.rfa.org

RFA's AJ
via
Siegbert Gerhard,
Frankfurt am Main

WORLDWIDE DX CLUB

WORLDWIDE DX CLUB, founded in 1966, does not claim to be the biggest or best DX club in the world. Nevertheless, it offers its members and subscribers a rather good monthly bulletin (mainly in English) entitled "DX MAGAZINE" with up-to-date information on most aspects of DX'ing at the reasonable price of €18.00, £15.25 or US\$24.50 per year (air mail: €21.60, £18.30 or US\$29.40).

Since WORLDWIDE DX CLUB is the "International Department" of ARBEITSGEMEINSCHAFT DX (AGDX), the head organization of the German language DX clubs, it is able to offer its members and subscribers another DX publication in German entitled "Radio-Kurier - weltweit hören". This is jointly issued by the German DX organizations ADDX and AGDX and is available for €59.00 per year inside Germany; other countries: €70.00, £59.30 or US\$95.25. "Radio-Kurier - weltweit hören" ordered together with "DX MAGAZINE": €74.00 inside Germany; other countries: €85.00, £72.00 or US\$115.70.

Both publications, "DX MAGAZINE" as well as "Radio Kurier - weltweit hören", are also available as PDF files. If you decide to receive this version, a worldwide subscription rate of €9.00, £7.65 or US\$12.25 applicable for "DX MAGAZINE". "Radio Kurier - weltweit hören" is available for €35.00, £29.65 or US\$47.65, both publications together for €41.00, £34.75 or US\$55.80.

WORLDWIDE DX CLUB has currently the following special publications available:

1. "REPORTING GUIDE", published by the EUROPEAN DX COUNCIL (€2.00 or 2 IRC's).
2. "EDXC RADIO COUNTRIES LIST 2007", published by the EUROPEAN DX COUNCIL (€2.00 or 2 IRC's).
3. "WORLD RADIO TV HANDBOOK 2019", published by WRTH Publications Limited in December 2018 (€42.00, including postage and packing inside Europe).
4. "DAS OHR ZUR WELT" (Eine Einführung in den Rundfunk-Fernempfang, herausgegeben von der ARBEITSGEMEINSCHAFT DX e. V.) (€2.00 or 2 IRC's).

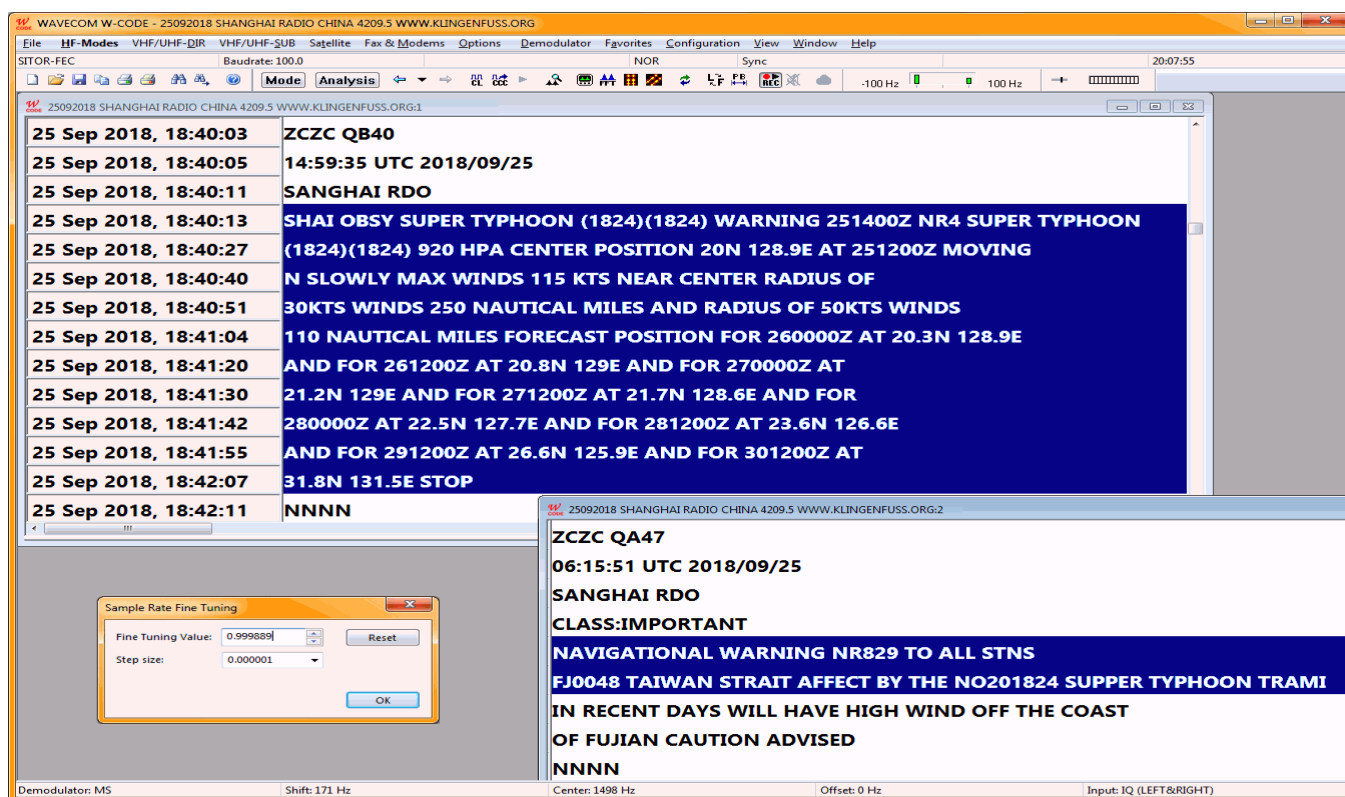
These prices include postage and packing. Delivery against advance payment by transfer to our bank accounts at Raiffeisenbank Graevenwiesbach (IBAN: DE75 5006 9345 0100 0199 84 - BIC/SWIFT-Code: GENODE51GWB) or ING/Netherlands (IBAN: NL08 INGB 0003 8228 40 - BIC/SWIFT-Code: INGBNL2A), PayPal, cheque in € drawn on a German bank (otherwise please add €5.00 for bank charges) or cash in any convertible currency.

Die obige Preise enthalten Porto und Verpackung. Lieferung gegen Vorauszahlung durch Überweisung, Scheck in € (gezogen auf eine deutsche Bank, sonst € 5,00 zusätzlich für Bankgebühren) oder PayPal. Konten: Raiffeisenbank Grävenwiesbach (IBAN: DE75 5006 9345 0100 0199 84 - BIC/SWIFT-Code: GENODE51GWB) und ING/Niederlande (IBAN: NL08 INGB 0003 8228 40 - BIC/SWIFT-Code: INGBNL2A).

For further information on WORLDWIDE DX CLUB please write to: WORLDWIDE DX CLUB, Postfach 1214, D-61282 Bad Homburg, GERMANY (e-mail: <info@wwdxc.de>), or visit us in the Internet at <<http://www.wwdxc.de>>.

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