

4 - 2020 € 1,50

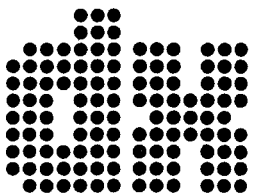
BBC ORTF
ADIO MOSKOU
NDR RAI TVR



ISSN 0175-6877



9 770175 687009



WORLD WIDE DX CLUB



WORLD WIDE DX CLUB



Staff of WORLDWIDE DX CLUB:

- PRESIDENT AND CHIEF EDITOR** . . . ✉ WWDXC Headquarters, Michael Bethge, Postfach 12 14, D-61282 Bad Homburg, Germany ● E-Mail: mail@wwdxc.de
☎ +49-6172-123118 ● ☎ +49-6172-123117
- BROADCASTING NEWS EDITOR** . . . ✉ Walter Eibl, Postfach 15 45, D-91005 Erlangen, Germany
E-Mail: news@wwdxc.de
- LOGBOOK EDITOR** ✉ Ashok Kumar Bose, 106 Aspermont Crescent, Brampton, Ontario, L6P 3Z3, Canada ● E-Mail: logbook@wwdxc.de
- QSL CORNER EDITOR** ✉ Dario Gabrielli, Viale della Resistenza 33b, I-30031 Dolo (Ve), Italy
E-Mail: qsl@wwdxc.de
- TOP NEWS EDITOR (Internet)** ✉ Wolfgang Büschel, Hoffeld, Sprollstrasse 87, D-70597 Stuttgart, Germany ● E-Mail: topnews@wwdxc.de
- TREASURER & SECRETARY** ✉ Karin Bethge, Urseler Strasse 18, D-61348 Bad Homburg, Germany
- NEWCOMER SERVICE OF AGDX** . . ✉ Hobby-Beratung, c/o AGDX, Postfach 12 14, D-61282 Bad Homburg, Germany (please enclose return postage)

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>>



DX MAGAZINE is the monthly publication of WORLDWIDE DX CLUB, Postfach 12 14, D-61282 Bad Homburg, Germany. Price for a single copy: € 1.50 or 2 International Reply Coupons (IRC's); annual subscription rate: € 18.00. Other currencies and air mail rates on request. Cover: Peter Pohle + Jürgen Kauer (KAVOP)



DX MAGAZINE No. 4

Vol. LV

April 2020

Hello again,

Welcome to another issue of our DX MAGAZINE. I have no news to report from inside the club this month - therefore let's just start with our usual news from outside the club:

Wir hatten im letzten DX MAGAZINE zwei Veranstaltungen angekündigt, die nun wegen der allgemeinen Schutzmaßnahmen bezüglich des Coronavirus/COVID-19 voraussichtlich nicht stattfinden werden: Feier zum 50-jährigen Bestehen des **ADXB** am 16. Mai 2020 in Niederösterreich und das **39. überregionale DX-Treffen** für Kurzwellenhörer und Freunde des Rundfunkfernempfangs am 9. Mai 2020 in Ottenau.

(Cf. DXM 12/2019) Bruno Pecolatto of Associazione Italiana Radioascolto has recently published the final results of it's **A.I.R. Contest 2020**. Again two of our members are among the winners of this contest: OM Hans Nerlich and OM Bernd Henning with 4751 points (place 6) and 3154 points (place 9) respectively. Our best congratulations for these results!

If you want to read the full results of this contest, please contact OM Bruno at <bpecolatto@libero.it>.

Until next month take care of each other and stay safe,

NEWS ABOUT BROADCASTING (+other) STATIONS

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

ANGUILLA - 11775 nor 6090 kHz, April 5, it's dawning on me that the so-called Caribbean Beacon has not been heard for a while, a week or more. Easy to miss due to convoluted "schedule". Mark Coady on the ODXA iog April 5:

"A fellow ham radio operator from Peterborough, Ontario, winters for over a month or two with his wife on the island of Anguilla. They recently had their first cases of the COVID-19 virus on the island, apparently brought in by recent tourists from the US and his return flight has been cancelled.

On top of not knowing when he can come home, he noted that he hasn't heard the Caribbean Beacon on 1610 lately and I haven't heard them on shortwave either. Pastor Melissa Scott is still on WWCR but I wonder if the Caribbean Beacon is another COVID-19 casualty for now. Has anyone been hearing them on 6090 or 11775 kHz lately?" 1610 kHz MW has been off for a long time. (gh, hcdx & wor April 9)

ANGOLA - probably weak signal from Mulenvos at 00.23 UT March 24 on 4949.736 kHz, S=6 in Delhi India. [selected SDR options, span 12.5 kHz RBW 15.3 Hertz](wb df5sx, wwdxc BC-DX TopNews March 24)

ANTARCTICA - 15475.97-CUSB mode, March 30 at 1531 UT, RNASG, LRA36 on again with a special, trx tip from Manuel Mendez. Of three Brazilian KiwiSDRs, Pardino is maxed out as too often the case: the best one has been getting too much publicity; wish they could increase its capacity. JBA via the one near Rio; better at Campo, so I stick on there for some Spanish mostly too weak to copy but ID in passing at 1538 UT; 1545 UT brief feedback loop in talk, then music; 1553 UT full ID; 1602 UT this SDR times out after 30 minutes but may be restarted; Signal gone sometime between 1615 and 1620 UT tho did not hear a sign-off. (gh, hcdx & WOR April 2)

Email address for reception reports: <tranalra36 -at- radionacional.gov.ar>
(Manuel Mendez, Lugo-ESP, direct and WOR March 18)

ARMENIA - Summer A-20 frequency changes of TWR India via Yerevan Gavar:

1315-1345 NF11590 ERV 300 kW / 100 deg to SAs Indian langs#, ex 9300
 1345-1420 NF11590 ERV 300 kW / 100 deg to SAs Hindi Mo-Fr, ex 9300
 1420-1425 NF11590 ERV 300 kW / 100 deg to SAs English Mo-Fr, ex 9300
 1345-1415 NF11590 ERV 300 kW / 100 deg to SAs Hindi Sa/Su, ex 9300
 1415-1445 NF11590 ERV 300 kW / 100 deg to SAs English Sa/Su, ex 9300
 1315-1445 NF13745 ERV 300 kW / 100 deg to SAs Indian langs*, ex 9910

incl. Dogri; Kashmiri; Kui; Kurux; Maithili; Mewadi; Mundan; Santhali

* incl. Awadhi; Bengali; Bhatari; Bhojpuri; Bundelkhandi; Hindi; Punjabi from March 29, 2020.
(Ivo Ivanov-BUL, direct and hcdx via wwdxc BC-DX Topnews March 20)

ARMENIA / MOLDOVA / UZBEKISTAN - Summer A-20 frequency changes of BBC World Service:

0000-0100 NF 5945 ERV 300 kW 100 deg to SAs English, ex7300 WOF
 0230-0330 NF 6180 TAC 100 kW 236 deg to WAs Farsi, ex6155
 0500-0600 NF13810 ERV 300 kW 192 deg to EaCeAF Kinyarwanda Sat, ex15490
 0530-0600 NF13810 ERV 300 kW 192 deg to ECAf Kinyarwanda Sun, ex15490
 1330-1400 NF17680 TAC 100 kW 131 deg to SAs Bengali, ex9560
 1400-1500 NF13660 TAC 100 kW 219 deg to EaAF Somali, ex15420 SCB
 1730-1750 9390 KCH 300 kW 160 deg to EAF Amharic Mon-Fri, additional
 1750-1810 9390 KCH 300 kW 160 deg to EAF Afan Oromo Mon-Fri, additional
 1810-1830 9390 KCH 300 kW 160 deg to EAF Tigrinya Mon-Fri, additional
(Ivo Ivanov-BUL, direct and hcdx via wwdxc BC-DX Topnews March 20)

ARMENIA / GUAM / MADAGASCAR / ROMANIA / TAJIKISTAN / U.S.A. / ZAMBIA

The following is the schedule of AWR Wavescan for the week via World of Radio maintained by Glenn Hauser:

SATURDAY

0100-0130 WRMI 7780
 0300-0330 WRMI 9955
 1100-1130 WRMI 9955
 1500-1530 KVOH AWR 17775v
 2015-2045 WRMI 7780
 2230-2300 WRMI 9955

SUNDAY

0230-0300 WRMI 7780
 0330-0400 AWR 4840-WWCR
 0600-0630 VOHA 9680 & 11680-Zambia
 0930-1000 WRMI 5950
 1200-1230 IRRS 9510-Romania
 1330-1400 WRMI 9955 Latin AM
 1530-1600 AWR 6155-Tajikistan
 1600-1630 AWR 17730-Madagascar 9580-Armenia
 2100-2130 WRMI 7780

MONDAY

0100-0130 WRMI 7780

0330-0400 WRMI 5985
 0800-0830 WRMI 5850 5950 7730
 1315-1345 WRMI 9955
 2200-2230 WRMI 9955

TUESDAY

0030-0100 WRMI 7730
 0130-0200 WRMI 7780 5850 5010
 1330-1400 WRMI 15770
 1930-2000 IRRS 7290-Romania

WEDNESDAY

0100-0130 WRMI 9955

THURSDAY

0000-0030 WRMI 9955
 0030-0100 WRMI 7730
 0130-0200 WRMI 7780
 (via Jose Jacob-IND, VU2JOS, DXindia newsgroup March 21)

AUSTRALIA - Reception of Reach Beyond Australia RBA in 25mb on April 1:

1230-1300 on 11900 KNX 100 kW / 310 deg to SAs Hindi Su-Fr, fair and
 1245-1300 on 11750 KNX 100 kW / 310 deg to SAs English Mo/We/Fr, weak.
 1430-1500 on 11825 KNX 100 kW / 335 deg to SAs English Daily, fair/good
 (DX MIX 1167)

...auf der Seite von Unique Radio <<https://www.uniqueradio.biz/>> extrahiere ich folgenden Sendeplan für die A20 Periode:

SO 0900-1230 UT ab 5. April
 1600-1800 UT ab 5. April
 FR 0900-1200 UT ab 10. April
 SA 0900-1200 UT ab 11. April
 5045 kHz USB (alt. 3210 kHz USB)

... 5045 kHz und dann noch USB-mode ist wirklich gut gewaehlt, wenn man nicht ausserhalb von Australien gehoert werden will. Der breitbandige Platzhirsch Beibu Bay Radio auf 5050 kHz laesst kein zartes Pflaenzchen rechts und links aufkommen. Da bleibt nur die Hoffnung auf die Sendung am So 1600-1800 UT auf 3210 kHz.
 (Uwe Volk-THA, QTH: Tha Mai, Provinz Chanthaburi, Thailand. A-DX ng Apr 3)

5055 kHz Radio 4KZ, on March 19, cut off at 1101:52* UT. March 23, noted 1055-1101:36* UT, so going off about four seconds earlier every day; signal strong enough to be able to easily ID the pop song (Paul Young - "Every Time You Go Away"); cut off during the news ("Thousand of jobs lost," etc.).
 (Ron Howard-CA-USA, via wwdxc BC-DX TopNews March 24)

BRAZIL - 6180.031 RNB Brasilia BrasPortuguese, poor S=5 in MA state and on Kiwiset at Sao Paulo, Brazil. 11.21 UT on March 17.

11780.006 kHz R Nacional da Amazonia, Brasilia, weak S=3-4 tonight on March 25, low sunspots phase ?, 01.14 UT.

[selected SDR options, span 12.5 kHz RBW 15.3 Hertz](wb df5sx, wwdxc BC-DX TopNews March 17-25)

BULGARIA - Relais Bible Voice Broadcasting:

0300-0315 5900 S0F 50 kW 126 deg to NE/ME Arabic Dardasha 7
 0315-0330 5900 S0F 50 kW 126 deg to NE/ME Arabic Dardasha 7
 1931-1946 5900 S0F 50 kW 126 deg to NE/ME Arabic Dardasha 7

Relais R Taiwan International:

1700-1730 5900 SCB 050 kW 30 deg to EEU Russian
 1900-1930 5900 SCB 100 kW 306 deg to WEU German
 (Ivo Ivanov-BUL, hcdx via wwdxc BC-DX TopNews April 6)

CHINA - 6060 kHz PBS Sichuan, 8 April, talk in (listed) Tibetan, 35222 on Hanoi Kiwi SDR // 7225 kHz at 33422. This station (PBS-2 Sichuan) still gives a very nice multi-language ID at 1200 UT - "Sichuan minzu guangbo, "Sichuan Ethnic Radio"; heard daily here on the California coast, with fair to good reception; often with nice indigenous music; best on 6060 kHz, but also // 7225 kHz.

(Ron Howard-CA-USA, WOR and direct via wwdxc BC-DX TopNews April 9)

CHINA [TIBET] - Holy Tibet is broadcasted to you every day from

00:00-01:00 local BT [1600 UTC],

15:00-16:00 local Beijing Time [0700 UTC] on 4905, 4920, 6110, 6130, 6200, 9580, 7255, 7385, 9490 kHz.

Holy Tibet

China Tibet Broadcasting Station,

English service,

no. 41 Beijing Middle Road

Lhasa 850000, Tibet, China, Asia

Please note that there is maintenance break in summer, but the dates change from year to year.

(Dr. Hansjoerg Biener-D, via wwdxc BC-DX TopNews March 14)

FRANCE - Good signal of R France International on April 3:

1200-1230 on 15275 ISS 500 kW / 200 deg to Waf Mandingo till May 30

1200-1230 on 13720 ISS 500 kW / 200 deg to Waf Mandingo May 31-Aug. 29

1200-1230 on 17815 ISS 500 kW / 200 deg to Waf Mandingo from Aug. 31

Manara Radio International via TDF Issoudun, March 31:

0700-0800 on 13840 ISS 150 kW / 170 deg to Waf Hausa, fair to good

Reception of TDA Telediffusion d'Algerie via TDF Issoudun April 1:

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

0500-0559 on 6125 ISS 500 kW / 194 deg to NWAf Arabic Holy Quran px* weak/fair

0500-0559 on 7295 ISS 500 kW / 160 deg to CEAF Arabic Holy Quran px* fair/good

0600-0659 on 9620 ISS 500 kW / 194 deg to NWAf Arabic Holy Quran px, very good

*xx01-xx09 news in French

(DX MIX 1167)

GERMANY - MEDIA BROADCAST GmbH (formerly T-SYSTEMS - DTK)

A-20 period (29/03/2020 - 24/10/2020) B-20 operational MBR schedule of March 29th, 2020. Times are in UTC.

FREQ	STARTSTOP	CIRAF	AZI	DAY	FROM	TO	LOC	POW	BRC	REMARKS
15255	1300-1330	41NE	125	1234567	290320	241020	DB	100	AWR	
15420	1200-1300	44NE, 45NW	64	1234567	290320	241020	DB	100	AWR	
15440	1330-1400	49E	125	1234567	290320	241020	DB	100	AWR	
15550	1200-1230	33S, 43N, 44N	60	12345	290320	241020	DB	100	AWR	
15550	1200-1230	33S, 43N, 44N	60	67	290320	241020	DB	100	AWR	
15550	1230-1300	33S, 43N, 44N	60	123457	290320	241020	DB	100	AWR	
15550	1230-1300	33S, 43N, 44N	60	6	290320	241020	DB	100	AWR	
9490	1600-1630	41S	125	1234567	290320	241020	ERV	300	AWR	
12060	1500-1530	41S	125	1234567	290320	241020	ERV	300	AWR	
12060	1530-1600	41N	125	1234567	290320	241020	ERV	300	AWR	
9770	2000-2030	46SW	188	1234567	290320	241020	ISS	250	AWR	
11790	1930-2000	46S	184	1234567	290320	241020	ISS	250	AWR	
11790	2030-2100	46SE	165	1234567	290320	241020	ISS	250	AWR	
12070	1930-2000	46SE	165	1234567	290320	241020	ISS	250	AWR	
17570	1630-1700	48	122	1234567	290320	241020	ISS	250	AWR	
5975	0400-0430	28SE	140	1234567	290320	241020	NAU	125	AWR	
6155	0430-0500	37, 38W	210	1234567	290320	241020	NAU	125	AWR	
9610	0900-1000	28W	180	1	290320	241020	NAU	125	AWR	
9760	2000-2030	46E, 47W	185	1234567	290320	241020	NAU	250	AWR	
9780	2000-2030	37, 38W	210	1234567	290320	241020	NAU	125	AWR	
9800	2100-2130	46SE	180	1234567	290320	241020	NAU	250	AWR	
9800	2130-2200	46SE	200	1234567	290320	241020	NAU	250	AWR	
9830	1600-1630	28SE	135	1234567	290320	241020	NAU	125	AWR	

11800	1900-2000	37, 38W	210	1234567	290320	241020	NAU	250	AWR
11955	1930-2000	37, 38W	210	1234567	290320	241020	NAU	125	AWR
12065	0400-0430	48	140	1234567	290320	241020	NAU	250	AWR
15215	1530-1600	41N	90	1234567	290320	241020	NAU	250	AWR
15220	0700-0800	37, 38W	210	1234567	290320	241020	NAU	250	AWR
15220	0830-0900	37, 38W	210	1234567	290320	241020	NAU	125	AWR
15455	0600-0630	46S	200	1234567	290320	241020	NAU	250	AWR
15490	1630-1700	48	140	1234567	290320	241020	NAU	250	AWR
15670	1530-1600	41N, 42S	80	12347	290320	241020	NAU	250	AWR
15670	1530-1600	41N, 42S	80	56	290320	241020	NAU	250	AWR
15715	1300-1330	42, 43W	75	23456	290320	241020	NAU	250	AWR
15715	1300-1330	42, 43W	75	17	290320	241020	NAU	250	AWR
15715	1330-1400	42, 43W	75	1234567	290320	241020	NAU	250	AWR
17720	1730-1800	48	145	1234567	290320	241020	NAU	250	AWR
17725	1630-1700	48	140	1234567	290320	241020	NAU	250	AWR
9445	1500-1530	41S	163	1234567	290320	241020	TAC	100	AWR
9445	1530-1600	41S	163	1234567	290320	241020	TAC	100	AWR
11940	1430-1500	49NW	122	1234567	290320	241020	TAC	100	AWR
12055	1300-1330	49NW	122	1234567	290320	241020	TAC	100	AWR
12105	1200-1230	43N, 44N	76	67	290320	241020	TAC	100	AWR
12105	1200-1230	43N, 44N	76	12345	290320	241020	TAC	100	AWR
12105	1230-1300	43N, 44N	76	123457	290320	241020	TAC	100	AWR
12105	1230-1300	43N, 44N	76	6	290320	241020	TAC	100	AWR
15255	1330-1400	41NE	131	1234567	290320	241020	TAC	100	AWR
15530	1300-1400	44NE, 45NW	66	1234567	290320	241020	TAC	100	AWR
11945	0200-0230	41	125	5	290320	241020	ERV	100	BVB
11945	0200-0215	41	125	3	290320	241020	ERV	100	BVB
15350	1630-1700	47, 48	135	1234567	290320	241020	ISS	100	BVB
21480	1200-1230	43S, 44S	45	7	290320	241020	MDC	125	BVB
21480	1230-1245	54	85	1	290320	241020	MDC	125	BVB
9810	1730-1830	39	115	17	290320	241020	MOS	100	BVB
9810	1700-1715	39	115	6	290320	241020	MOS	100	BVB
9810	1700-1730	39	115	5	290320	241020	MOS	100	BVB
9610	1800-1900	39, 40	105	5	290320	241020	NAU	100	BVB
9610	1800-1830	39, 40	105	6	290320	241020	NAU	100	BVB
9610	1830-1900	39, 40	105	13	290320	241020	NAU	100	BVB
9635	1815-1830	39, 40	130	1	290320	241020	NAU	250	BVB
9635	1830-1915	39	130	1	290320	241020	NAU	125	BVB
9735	0500-0515	39, 40	120	6	290320	241020	NAU	250	BVB
11655	0600-0615	46N, 47NW, 38W, 37S	180	1234567	290320	241020	NAU	125	BVB
15265	1400-1430	41	102	7	290320	241020	NAU	250	BVB 1st Sa p.M.
15265	1430-1500	41	102	7	290320	241020	NAU	250	BVB
15310	1600-1700	38S, 39S, 47, 48	142	1	290320	241020	NAU	100	BVB
15310	1600-1800	38S, 39S, 47, 48	142	2	290320	241020	NAU	100	BVB
15310	1600-1730	38S, 39S, 47, 48	142	3	290320	241020	NAU	100	BVB
15310	1630-1700	38S, 39S, 47, 48	142	67	290320	241020	NAU	100	BVB
15310	1630-1800	38S, 39S, 47, 48	142	4	290320	241020	NAU	100	BVB
15310	1630-1730	38S, 39S, 47, 48	142	5	290320	241020	NAU	100	BVB
9490	1710-1730	38E, 39, 40W	132	2	290320	241020	SOF	100	BVB
9490	1715-1730	38E, 39, 40W	132	4	290320	241020	SOF	100	BVB
9490	1715-1745	38E, 39, 40W	132	56	290320	241020	SOF	100	BVB
9490	1715-1745	38E, 39, 40W	132	7	290320	241020	SOF	100	BVB
11830	1800-1900	46, 47	167	1234567	290320	241020	ISS	100	DAK
13590	0700-0800	46, 47	185	1234567	290320	241020	NAU	125	DAK
13590	0800-0900	46, 47	185	7	290320	250720	NAU	125	DAK
11850	0630-0700	46, 47W	170	1234567	290320	241020	ISS	500	DWL
11850	1800-1900	46, 47W	167	1234567	290320	241020	ISS	500	DWL
13775	1600-1700	48	130	1234567	290320	241020	ISS	500	DWL
15215	0630-0700	46, 47W	160	1234567	290320	241020	ISS	500	DWL
15215	1300-1400	46, 47W	163	1234567	290320	241020	ISS	500	DWL
15215	1800-1900	46, 47W	175	1234567	290320	241020	ISS	500	DWL
15275	1600-1700	48	130	1234567	290320	241020	ISS	500	DWL
6055	1030-1100	27, 28	222	17	290320	241020	NAU	125	EMG
13800	1530-1630	29S	100	7	290320	241020	NAU	100	HCJ
7330	1000-1100	27, 28	283	1	290320	241020	MOS	100	JOY 1st Su p.M.
5960	0000-0200	2, 3, 4, 6, 7, 8, 9, 10	300	1	290320	020520	NAU	125	KBC
9925	0000-0200	2, 3, 4, 6, 7, 8, 9, 10	300	1	030520	050920	NAU	125	KBC
5960	0000-0200	2, 3, 4, 6, 7, 8, 9, 10	300	1	060920	241020	NAU	125	KBC
6045	0800-0900	27E, 28	240	1	290320	241020	NAU	125	KBC (on-demand)
6095	0800-1600	18SW, 27, 28W, 37N	240	1234567	290320	241020	NAU	100	KBC (on-demand)

9810	1900-1930	46, 47	175	1234567	290320	241020	ISS	100	KRI
9680	1600-1630	29, 30	80	7	290320	241020	NAU	250	MWF
13710	1200-1230	19, 20, 21, 22, 23, 24, 25, 26	60	7	290320	241020	NAU	250	MWF
5975	0430-0500	27SE, 28SW	ND	12345	290320	241020	MOS	300	NHK
5975	0500-0530	27SE, 28SW	ND	17	290320	241020	MOS	300	NHK
6165	0430-0500	27, 28	85	1234567	290320	241020	NAU	125	NHK
9490	0300-0500	38-40	140	1234567	290320	241020	NAU	250	NHK
13690	1700-1900	38-40	140	1234567	290320	241020	NAU	250	NHK
5985	0400-0430	11, 12	222	1234567	290320	241020	RMI	100	NHK
11830	1600-1700	39	128	1	290320	241020	NAU	125	PAB
15205	1430-1445	41	94	1	290320	241020	NAU	250	PAB
6155	1630-1730	41	163	1	290320	241020	TAC	100	PAB
7425	1630-1730	42, 43, 44	90	1	290320	241020	TAC	100	PAB
15205	1200-1300	45	66	7	290320	241020	TAC	100	PAB
15205	1200-1400	27E, 28	305	1234567	290320	241020	ERV	100	RSZ (on-demand)
15420	1700-1800	38E, 39S, 48	144	4	290320	241020	NAU	100	SBO
15420	1700-1730	38E, 39S, 48	144	16	290320	241020	NAU	100	SBO
5990	1000-1600	27E, 28	233	1234567	290320	241020	NAU	125	SFZ (on-demand)
15420	1800-1859	48SW, 52NE, 53NE	320	7	290320	241020	MDC	250	SJK
6140	0800-0900	27E, 28NW	270	1	290320	241020	MOS	100	SKW 1st Su p.M.
5935	1300-1400	27E, 28NW	233	1234567	290320	241020	NAU	125	SKW (on-demand)

List of Broadcasters which are using MEDIA BROADCAST technical equipment:

AWR Adventist World Radio
 BVB High Adventure Gospel - Bible Voice Broadcasting
 DAK Dandal Kura Radio International
 DWL Deutsche Welle Bonn / Berlin, Germany
 EMG Evangelische Missionsgemeinden in Deutschland
 HCJ Reach Beyond (former Voice of the Andes)
 JOY Radio Joystick, Germany
 KBC The Mighty KBC
 KRI Koode Radio International
 MWF Missionswerk Friedensstimme, Gummersbach - Germany
 NHK Nippon Hoso Kyokai, Radio Japan World, Tokyo, Japan.
 PAB Pan Am Broadcasting
 RSZ Radio60!
 SBO Sagalee Bilisummaa Oromoo, Voice of Oromo Liberation. Berlin.
 SFZ Studio 52
 SJK Radio Itahuka in Kirundi Ce/EaAfrica Burundi-Rwanda on Sa.
 Please send report to <QSL-Shortwave@media-broadcast.com>
 SKW Förderverein "Sender Königs Wusterhausen" e.V.

Michael Puetz
 MEDIA BROADCAST GmbH
 Order Management & Backoffice
 Erna-Scheffler-Strasse 1
 D-51103 Cologne, Germany

Please send your inquiries and reception reports to:
 E-Mail: <QSL-Shortwave@media-broadcast.com>
 Internet: <https://www.media-broadcast.com/hoerfunk/kw-sendernetze>

SHORTWAVESERVICE Kall/ Eifel SENDEPLAN A20 (29. März bis 24. Oktober 2020)
 Stand: 31.03.2020 *** Alle Zeiten in MESZ / all times in CEST (UTC+2) ***

3985 kHz
 Montag-Samstag (Monday-Saturday)
 17:00-17:30 Radio Tirana International (fr)
 17:30-18:00 Radio Slowakei (fr)
 18:00-19:00 SRF Echo der Zeit (dt)
 19:00-19:30 Radio Prag International (dt)
 19:30-20:00 Radio Tirana (dt)
 20:00-20:30 Radio Slowakei International (dt)

20:30-21:00 Radio Slowakei International (fr)
 21:00-21:30 Radio Slowakei International (en)
 21:30-21:50 Radio Belarus (fr)
 21:50-22:10 Radio Belarus (es)
 22:10-22:30 Radio Vatikan (dt)
 22:30-23:00 SRF Das war der Tag (dt)
 23:00 Sendeschluss

Sonntag (Sunday)

17:00-17:30 Radio Canada International (fr)
 17:30-18:00 Radio Slowakei International (fr)
 18:00-19:00 SRF Echo der Zeit (dt)
 19:00-19:30 Radio Prag International (dt)
 19:30-20:00 Radio Tirana (dt)
 20:00-20:30 Radio Slowakei International (dt)
 20:30-21:00 Radio Slowakei International (fr)
 21:00-21:30 Radio Slowakei International (en)
 21:30-21:50 Radio Belarus (fr)
 21:50-22:10 Radio Belarus (es)
 22:10-22:30 Radio Vatikan (dt)
 22:30-23:00 SRF Das war der Tag (dt)
 23:00 Sendeschluss

6005 kHz

Montag-Samstag (Monday - Saturday)

09:00-11:00 Radio Belarus (dt)
 11:00-12:00 Radio Ukraine International (dt)
 12:00-12:30 Radio Slowakei International (dt)
 12:30-13:00 SRF Rendez-Vous(dt)
 13:00-13:30 Radio Slowakei International (en)
 13:30-14:00 Radio Slowakei International (fr)
 14:00-14:30 Voice of Mongolia (en)
 14:30-15:00 Radio Tirana (en)
 15:00-15:30 Radio Slowakei International (dt)
 15:30-16:00 Radio Slowakei International (fr)
 16:00-16:30 Radio Slowakei International (es)
 16:30-17:00 Radio Slowakei International (en)
 17:00-17:30 Polskie Radio (dt)
 17:30-18:00 Radio Slowakei International (en)
 18:00-19:00 SRF Echo der Zeit (dt)
 19:00-20:00 Radio Ukraine International (dt)

(direkt)

Reception of DWD Deutscher Wetterdienst, March 31:

0600-0630 on 5905 PIN 010 kW / non-dir to CEu German AM mode, good
 0600-0630 on 6180 PIN 010 kW / non-dir to CEu German AM mode, good

1200-1230 on 5905 PIN 010 kW / non-dir to CEu German AM mode - JBA
 1200-1230 on 6180 PIN 010 kW / non-dir to CEu German AM mode, weak
 (DX MIX 1167)

GERMANY / UZBEKISTAN - Summer A-20 additional txions via MBR Tashkent / Nauen:

Preparing for Jesus

1300-1400 NF 13580 TAC 100 kW 66 deg to JPN Japanese Sat, ex 5945 B-19

Tony Alamo Christian Ministries

1600-1700 on 11830 NAU 125 kW 128 deg to N/ME English Su, ex 6120 B-19
 1630-1730 on 6155 TAC 100 kW 163 deg to SAs English Su, ex 6060 B-19
 1630-1730 on 7425 TAC 100 kW 90 deg to CeAs English Su, ex 5945 B-19
 (Ivo Ivanov-BUL, direct and hcdx via wwdxc BC-DX Topnews March 20)

INDIA - All India Radio curtails it's services due to lock down in India.

On 22nd March, 2020 Government of India announced complete lockdown in 75 cities all across India upto 31st March, in a bid to contain the further spread of the Covid-19 virus. It's an unprecedented situation wherein except essential services, all shops, offices, factories are closed & prohibitory orders issued for general public.
 (Alokesh Gupta-IND, DXindia March 23)

20:00-20:30 Radio Tirana (it)
 20:30-21:00 Voice of Mongolia (en)
 21:00 Sendeschluss

Sonntag (Sunday)

09:00-11:00 Radio Belarus (dt)
 11:00-12:00 Radio Ukraine International (dt)
 12:00-12:30 Radio Slowakei International (dt)
 12:30-13:00 SRF Rendez-Vous(dt)
 13:00-13:30 Radio Slowakei International (en)
 13:30-14:00 Radio Slowakei International (fr)
 14:00-14:30 Voice of Mongolia (en)
 14:30-15:00 Radio Tirana (en)
 15:00-15:30 Radio Slowakei International (dt)
 15:30-16:00 Radio Slowakei International (fr)
 16:00-16:30 Radio Slowakei International (es)
 16:30-17:00 Radio Slowakei International (en)
 17:00-17:30 Polskie Radio (dt)
 17:30-18:00 Radio Slowakei International (en)
 18:00-19:00 SRF Echo der Zeit(dt)
 19:00-20:00 Radio Amathusia (nl)
 20:00-20:30 Radio Tirana (it)
 20:30-21:00 Voice of Mongolia (en)
 21:00 Sendeschluss

6085 kHz

Taglich (Daily)

0900-1900 Radio MiAmigo International*

*Deutsch / Englisch / Niederlandisch, Programmplan unter:

<<http://www.radiomiamigo.international/english/sw-schedule.html>>

DX India News Flash:

Due to the present Corona Virus situation, All India Radio has suspended all its External Services from today until 31 March 2020. Besides SW this includes MW channels carrying External Services Viz 594 kHz Chinsurah, 702 kHz Jalandhar, 1052 kHz Tuticorin & 1071 kHz Rajkot, AIR Bengaluru Vividh Bharthi 9865 kHz is also off. (Jose Jacob-IND VU2JOS, DXindia March 24)

AIR still 6 x 60 meterband units on air, 01.50-02.10 UT log, March 24

4799.996 AIR Hyderabad on air with sub-continental mx, S=9+15dB in remote SDR rx in Delhi India on March 24.

4810even kHz ever best 60 mb channel of AIR from Bhopal, excellent audio, and work of the local technician there. S=9+30dB, up to 30 kHz wideband audio.

4910.002 AIR Jaipur scheduled, Hindi px at 02.00 UT, S=9+25dB.

4920even carrier of AIR Tamil from Madras seemingly ? - underneath - and co-channel too {S=9+20dB at 12.57 UT on March 24} 4919.957 usual offset PBS Xizang Lhasa Baiding in Tibetan, S=9+15dB strength.

4949.995 AIR Srinagar, S=9+15dB carrier strong, BUT LOW modulation.

5040.002 AIR Jeypore in pres. Hindi, fair signal in Delhi and Doha Qatar remote PERSEUS SDR rx units. March 24.

9380even AIR weak and tiny S=5 signal of Vividh Bharati in Hindi language, at 01.06 UT on March 25.

[selected SDR options, span 12.5 kHz RBW 15.3 Hertz](wb df5sx, wwdxc BC-DX TopNews March 24-25)

ITALY - MW RAI Radio 1 Frequency List:

SITE	kHz	kW	ON	OFF
Ancona, Montagnolo	1062	6	0600	2400
Belluno	1449	2,5	0600	2400
Cagliari, Decimoputzu	1062	60	0600	2400
Catania, Coda di Volpe	1062	20	0600	2400
Foggia	1431	5	0600	2400
Genova, Portofino	1575	30	0600	2400
Palermo, Monte Pellegrino	1116	10	0600	2400
Pisa, Coltano	657	100	0600	2400
Torino, Volpiano	999	50	0600	2400
Trieste, Monte Radio	981	>10	0600	2400
Venezia, Campalto	936	5	0600	2400

Milano, Siziano	900	50	0000	2400
Roma, Monte Ciocci	1107	1	0000	2400

(Francesco Di Giovanni – IN3XZP)

JAPAN [AUSTRIA / FRANCE / GERMANY / LITHUANIA / MADAGASCAR / MYANMAR / SINGAPORE / TAJIKISTAN / THAILAND / U.A.E. / U.S.A. / UZBEKISTAN / VATICAN STATE]

NHK World - Radio Japan Tokyo - March 29, 2020 - October 24, 2020.
A-20 Northern summer season file, according NHK World Radio Japan PDF.file

Foreign language and Japanese Services:

Arabic	1030-1100 SEAs	11740/SNG
0600-0630 ME/NAF 11975/F	1430-1500 SEAs	11740/SNG
Bengali	Via MRTV Myanmar Radio Yangon Yaegu, Myanmar.	
1300-1345 SWAs 11685/SNG	1445-1505 Wed/Sa only	
Burmese	SEAs SW 5985 MW 576 Myanma Radio,	

	Yangon Yaegu		
SEAs	MW 594 Myanmar Radio, Nay Pyi Taw		
2340-2400	SEAs	13650/YAM	
Chinese			
0400-0430	AS	11825/YAM	
1130-1200	AS	6090/YAM	
1230-1300	AS	6190/YAM	
1330-1400	AS	6190/YAM	
1430-1500	AS	6190/YAM	
2230-2250	AS	9560/YAM	
English			
retimed -	Mo-Fr 0430-0500 UT.		
	Sa/Su 0500-0530 UT.		
EUR		5975/OE	
AF/WeAF		7245/VAT	
AF/EAf/SoAF		11970/F	
1100-1130	SEAs	11695/SNG	
1400-1430	SoWeAS	9450/UZB	
1400-1430	SEAs	11830/UAE	
Via MRTV Myanmar Radio Yangon Yaegu, Myanmar.			
1540-1600	Thurs and Fris		
	SoWeAS SW 5985 MW 576 Myanmar Radio, Yangon Yaegu		
	SWAs MW 594 Myanmar Radio, Nay Pyi Taw		
French			
0530-0600	Waf	11730/F	
0530-0600	CAf	13840/MDG	
2030-2100	Waf	7425/MDG	
Hindi			
0059-0120	SWAs	9820/UZB	
1430-1500	SWAs	15745/MDG	
1530-1600	SWAs	9600/UZB	
Indonesian			
1115-1200	SEAs	17820/UAE	
1315-1400	SEAs	13865/UAE	
	MW 1170 kHz Simalungun - Radio Rasita.		
2130-2200	SEAs	9560/YAM	
Japanese			
0200-0300	AS FE	11790/YAM	
0200-0500	AS	15195/YAM	
0700-0800	AS	11825/YAM	
0800-1600	AS	9750/YAM	
2100-2400	AS	11910/YAM	
2000-2100	OCE/Hawaii	9480/YAM	
0200-0500	SEAs	17810/YAM	
0700-1000	SEAs	15280/YAM	
1000-1500	SEAs	11815/YAM	
2100-2300	SEAs	13680/YAM	
0200-0400	SWAs	15325/YAM	
1300-1400	SWAs	15325/YAM	
1500-1700	AF/SWAs/SAs	12045/YAM	
0800-1000	SWEu/WAf	15290/F	
1700-1900	SEu/CAf/SAf	11945/F	
1900-2100	CAf	15130/F	
0300-0500	SEEu/NE/ME/NEAf	9490/N	
1700-1900	SEEuR/NE/ME/NEAf	13690/N	
1900-2100	CAs/ME/NE/NAf	6120/YAM	
0200-0400	SAm	6105/F	
0700-0900	SAm	9795/YAM	
Korean			
0415-0445	AS	11895/YAM	
1100-1130	AS	6090/YAM	
1200-1230	AS	6090/YAM	
1300-1330	AS	6190/YAM	
1400-1430	AS	6190/YAM	
2209-2230	AS	9560/YAM	
Persian			
0400-0430	ME	11970tac	
1430-1500	ME	13680/F	
1630-1700	ME	MW927/Tjk	
Portuguese			
0900-0930	SoAM	6195/WHRI	
Russian			
0330-0400	EU	MW1386/LTU	
0430-0500	EU	6165/N	
0530-0600	EaAS FE	11790/YAM	
1100-1130	EaAS FE	7355/YAM	
1600-1630	EU	MW 927tjk	
1730-1800	EU	MW1386lit	
Spanish			
0400-0430	SoAM	6195/WHRI	
0400-0430	CeSoAM	5985/FL	
0930-1000	SoAM	6195/WHRI	
Swahili			
1730-1800	Eaf	13730/MDG	
Thai			
1130-1200	SEAs	11740/SNG	
1230-1300	SoEaAs	11740/SNG	
1230-1300	SEAs Mo-Fr	MW Thammasat University Radio, Bangkok MW 981 kHz	
2259-2320	SEAs	13650/YAM	
Urdu			
1515-1545	SWAs	11775uae	
1700-1730	SWAs	MW927tjk	
Vietnamese			
1100-1130	SEAs	11740/SNG	

12

1300-1315	Tue-Fr	1330-1345	Sa
1300-1320	Mo	2320-2340 SEAs	13650/YAM

(PDF file format transformed by wb at wwdxc BC-DX TopNews March 26)

KURDISTAN (non) - BRB Denge Welat via Moldova/ France March 30:

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

0500-0600 on 11530 ISS 250 kW / 090 deg to WAs Kurdish, weak/good

Full summer of BRB Denge Welat

0230-0500 on 9525 ISS 250 kW / 090 deg to WAs Kurdish

0500-0600 on 11530 ISS 250 kW / 090 deg to WAs Kurdish

0600-1600 on 11530 KCH 300 kW / 130 deg to WAs Kurdish

1600-2100 on 11530 ISS 250 kW / 090 deg to WAs Kurdish

(DX MIX 1167)

LITHUANIA - Radio Baltic Waves International, Viešintos, Lithuania, 1386 kHz, 75 kW, ND:

03:30 - 04:00 NHK World Japan Russian

04:00 - 05:00 R. Poland Belarusian

05:00 - 05:30 R. Poland Ukrainian

11:30 - 12:00 R. Poland German

12:00 - 13:00 R. Poland English

15:30 - 16:00 R. Poland Polish

16:00 - 16:30 R. Poland Russian

17:30 - 18:00 NHK World Japan Russian

18:00 - 21:00 R. Free Europe/R. Liberty Russian

(Rimantas Pleikys, Manager)

MALAYSIA [non-Sarawak] - 9835 kHz, Sarawak FM [non-log], via Kajang, 1106+ UT thru March 23. Still silent; am only hearing Wai FM on 11665 kHz.

(Ron Howard-CA-USA, via wwdxc BC-DX TopNews March 24)

MALI - 13685even CRI Africa relay at Bamako Mali western Africa towards north-eastern Africa. English S=6 sidelobe into Rochester NY US state at 14.41 UT on March 19.

(wb df5sx, wwdxc BC-DX TopNews March 19)

MEXICO - They have fixed the recent faulty transmitter in Mexico City D.F. now at 02.10 UT on March 20 fine sound, heard canciones in Spanish language.

6184.992 kHz XEPPM and noted S=9+5dB signal in Cape Canaveral Florida remote SDR rx.

next door 6180even CUBA CRI Quivican San Felipe TITAN 250 kW relay and RN Brasilia on odd 6180.011 kHz, hit each other co-channel.

[selected SDR options, span 12.5 kHz RBW 15.3 Hertz](wb df5sx, wwdxc BC-DX TopNews March 20)

6185.0 kHz, March 18 at 2355 UT, XEPPM JBM with Mexican music, S9 signal; rather than no modulation audible yesterday. BTW, R Educacion has much more important matters on its mind: holding on to MW 1060 after migration to FM is complete; seems 100 kW on MW has better coverage than FM. Not a word however about SW here, tnx via GRA blog:

<<https://www.americaeconomia.com/negocios-industrias/radio-educacion-busca-retener-la-historica-keep-am-1060-de-la-ciudad-de-mexico>>

(gh, hcdx and WOR March 19)

NEW ZEALAND - Updated A-20 of Radio New Zealand Pacific, all 1 hour earlier:

AM mode Daily

1859-2058 11725 RAN 050 kW 35 deg to All Pacific English, ex1959-2158

2059-0358 13840 RAN 050 kW 35 deg to All Pacific English, ex2159-0458
 0359-0558 11725 RAN 050 kW 35 deg to All Pacific English, ex0459-0658

AM mode Mo-Fr

0559-0858 5945 RAN 050 kW 35 deg to All Pacific English, ex0659-0958
 0859-1158 5945 RAN 100 kW 325 deg to NWPa/PNG/As English, ex0959-1258

AM mode Su-Fr

1159-1550 6170 RAN 050 kW 35 deg to All Pacific English, ex1259-1650

AM mode Sa

1159-1858 6170 RAN 050 kW 35 deg to All Pacific English, ex1259-1958

DRM mode Su-Fr

1551-1635 6115 RAN 035 kW 35 deg to Tonga/Samoa English, ex1651-1735
 1636-1735 7285 RAN 035 kW 35 deg to Tonga/Samoa English, ex1736-1835
 1736-1858 9760 RAN 035 kW 35 deg to Tonga/Samoa English, ex1836-1958
 (Ivo Ivanov-BUL, WOR & hcdx via wwdxc BC-DX Topnews April 6)

OMAN - Radio Sultanate of Oman RSO was back again on shortwave April 3:

0400-1000 on 13600 THU 100 kW / 220 deg to Eaf Arabic-weak via Twente
 1000-1400 on 15665 THU 100 kW / 315 deg to WEu Arabic NO SIGNAL TODAY
 1400-1500 on 15140 THU 100 kW / 315 deg to WEu English, fair to good*
 from 1500 on 15140 THU 100 kW / 315 deg to WEu Arabic - fair to good.
 from 1515 on 15140 THU 100 kW / 315 deg to WEu NO SIGNAL / TX IS OFF!
 *including Malayalam announcements in 1420 & 1455UTC, die to COVID-19!
 (DX MIX 1167)

PHILIPPINES - Radyo Pilipinas Manila via Tinang off air.

0200-0330 12010 PHT 250 kW 283 deg to NE & ME English
 0200-0330 15640 PHT 250 kW 270 deg to NE & ME English
 0200-0330 17820 PHT 250 kW 315 deg to NE & ME English
 1730-1930 9960 PHT 250 kW 283 deg to NE & ME Filipino
 1730-1930 12120 PHT 250 kW 283 deg to NE & ME Filipino
 1730-1930 15190 PHT 250 kW 283 deg to NE & ME Filipino

After March 15, A20 registration was missing in HFCC Database.

(Ivo Ivanov-BUL, hcdx via wwdxc BC-DX Topnews April 3)

My friend Sanil Deep reports that Radyo Pilipinas m/Fing on SW lately. Philippines Broadcasting Service which was there is HFCC registrations for B19 is m/Fing in A20 registration. So they are gone for ever?!

(Jose Jacob-IND VU2JOS, DXindia April 4)

Yes seemingly ceased all shortwave services via AGM United States Agency for Global Media (USAGM) Tinang-Philippines relay site. (wb, April 4)

Poor/weak signal of FEBC Radio Teos on March 29:

1500-1530 on 9920 BOC 100 kW / 323 deg to CAs Russian Daily &
 1530-1600 on 9920 BOC 100 kW / 323 deg to CAs Ukr/Russ Sunday.

Wrong time & freq. ann: 19-20 MST on 11650, not 18-19 MST on 9920.

(DX MIX 1167)

SPAIN - I recorded several hours of REE on 9690 kHz yesterday {March 16} starting around 21:30 UTC here in New Brunswick-CAN with a powerhouse signal in an effort to capture the English program previously broadcast at 23:00 UT.

Not only was there no English (or other foreign language programs) it appeared that the Spanish programming was a relay of a domestic RNE channel. Only IDs for R Nacional de Espana and time checks for the Canary Islands. So perhaps, for the time being and due to the pandemic crisis, REE's own programming, at least over SW but probably streaming too (I didn't check), is suspended. By the way, the RNE programming seems not to be all doom and gloom; some laughter and happy music, too.

(Richard Langley-NB-CAN, WOR March 17)

SINGAPORE - 11685 NHK World Radio April 10, 2020, at 1307 UT (tune in) on in English with world news, including US presidential race along with US weather. English continued until 1315 UT. Resource <<http://www.short-wave.info>> & NHK website both show transmitter site to be located in Singapore.

Both also show the language from 1300-1345 UT to be Bengali. Possibly language changed to Bengali at 1315 UT with what sounds like a Japanese language learning program. Signal strength at my location varied between S3 - S5. SINPO 34323. IC-7300 and 30 meter dipole up 20 feet.
(Mike Newland, Morgantown KY-USA, WOR April 10)

SOMALIA - ... Yes, thanks some more interference on the frequency after 1830 UT but signal still quite good ... amazing at such a distance ... I find the signal to have less noise when heard using the Ticino site although a bit weaker. At about 1858 UT or so, strangely programming stops or drops out while I was listening on Ticino, but on UK Weston programming was still heard ...
(Dan Robinson-VA-USA, WOR April 6)

Response from the station:

"Thanks for the information provided to us we are very excited to hear from you once again.

No new equipment Warsan Radio has provided for power increase But our radio signal which heard so many thousands of kilometers away from our location maybe the weather was very clear and supportive.

Thanks for the info and the support we really appreciate.

We have listened the mp3 file you have sent to us which was one of our daily advertisements interval programm for today 6 Apr 2020.

Wish you good health clean away from coronavirus you and your family.

Best regard - Hilaal

(via Dan Robinson-VA-USA, WOR April 6)

Somalia / Warsan Radio 7750 USB mode.

As reported in an item posted on WOR end of March, I was checking this frequency today usually I use India SDR sites as European sites are far weaker, but surprised to find a S3 to S5 signal from Warsan Radio, Somalia with ads and other programming from 1804 UTC.

This is probably the best I have ever heard this station, which I happily was able to verify in 2019 with a very friendly response from the station via email. Hard to tell if their power remains the same as before, but the signal as heard via one of the Weston UK nodes makes me think they may have increased power.

(via Dan Robinson-VA-USA, WOR April 7)

... however the website gives an incorrect address - "Baidoa" is m/Fpelled as "Bidoa" which does not work. The correct address should be <warsanradiobaidoa-at-gmail.com>

(Bruce W. Churchill-CA-USA, WOR DXplorer April 7)

TURKEY - TRT Emirler in A-20 season:

Sorted by frequency:

5945	Voice of Turkey	1830	1930	English	Emirler	Eu	Turkey
5960	Voice of Turkey	1600	2100	Turkish	Emirler	ME	Turkey
6040	Voice of Turkey	0400	0600	Turkish	Emirler	ME	Turkey
6165	Voice of Turkey	0300	0400	English	Emirler	ME	Turkey
7210	Voice of Turkey	1100	1130	Bulgarian	Emirler	Eu	Turkey
7260	Voice of Turkey	0100	0200	Spanish	Emirler	Car	Turkey
7275	Voice of Turkey	0300	0400	English	Emirler	Eu	Turkey
7275	Voice of Turkey	0300	0400	English	Emirler	NAm	Turkey
7360	Voice of Turkey	0000	0200	Turkish	Emirler	FE	Turkey
7360	Voice of Turkey	1730	1830	French	Emirler	EAF	Turkey
9460	Voice of Turkey	1600	2100	Turkish	Emirler	Eu	Turkey
9465	Voice of Turkey	0200	0300	Uyghur	Emirler	FE	Turkey
9505	Voice of Turkey	1530	1630	Azeri	Emirler	Caucasus	Turkey
9525	Anti-Kurdish Tape	1500	2100	Turkish	Emirler	ME	Turkey
9540	Voice of Turkey	1400	1500	Arabic	Emirler	ME	Turkey

9610	Voice of Turkey	1400	1430	Italian	Emirler	SEu	Turkey
9635	Voice of Turkey	1930	2030	French	Emirler	WEu	Turkey
9655	Voice of Turkey	1000	1100	Georgian	Emirler	Caucasus	Turkey
9765	Voice of Turkey	1500	1600	Farsi	Emirler	IRN	Turkey
9770	Voice of Turkey	0400	0600	Turkish	Emirler	CEu	Turkey
9830	Voice of Turkey	2200	2300	English	Emirler	ENA	Turkey
9840	Voice of Turkey	1300	1600	Turkish	Emirler	Eu	Turkey
9840	Voice of Turkey	1730	1830	German	Emirler	Eu	Turkey
9870	Voice of Turkey	0100	0200	Spanish	Emirler	SAm	Turkey
9875	Voice of Turkey	2030	2130	English	Emirler	Oc	Turkey
9880	Voice of Turkey	1930	2030	French	Emirler	Waf	Turkey
11530	Anti-Kurdish Tape	0500	1500	Turkish	Emirler	ME	Turkey
11675	Voice of Turkey	0600	1200	Turkish	Emirler	ME	Turkey
11730	Voice of Turkey	0700	0800	Azeri	Emirler	Cau	Turkey
11740	Voice of Turkey	1000	1030	Tatar	Emirler	EEu	Turkey
11750	Voice of Turkey	0600	0900	Turkish	Emirler	IRN	Turkey
11750	Voice of Turkey	0900	1000	Arabic	Emirler	ME	Turkey
11765	Voice of Turkey	1500	1630	Pashto & D	Emirler	AFG	Turkey
11795	Voice of Turkey	0830	1000	Farsi	Emirler	ME	Turkey
11825	Voice of Turkey	1330	1400	Kazakh	Emirler	CAs	Turkey
11930	Voice of Turkey	1630	1730	Spanish	Emirler	SEu	Turkey
11955	Voice of Turkey	0600	1200	Turkish	Emirler	ME	Turkey
11965	Voice of Turkey	1300	1400	Russian	Emirler	EEu	Turkey
13635	Voice of Turkey	0600	1300	Turkish	Emirler	Eu	Turkey
13710	Voice of Turkey	1200	1300	Urdu	Emirler	PAK	Turkey
13760	Voice of Turkey	1130	1230	German	Emirler	Eu	Turkey
13765	Voice of Turkey	0500	0700	Hausa	Emirler	NIG	Turkey
15235	Voice of Turkey	1030	1100	Uzbek	Emirler	CAs	Turkey
15285	Voice of Turkey	1200	1230	Turkmen	Emirler	CAs	Turkey
15410	Voice of Turkey	1230	1330	Uyghur	Emirler	FE	Turkey
15450	Voice of Turkey	1230	1330	English	Emirler	Eu	Turkey
15520	Voice of Turkey	1630	1730	English	Emirler	SAs	Turkey
17620	Voice of Turkey	1100	1200	Mandarin	Emirler	FE	Turkey
17720	Voice of Turkey	0400	0500	Malay	Emirler	INS	Turkey
17770	Voice of Turkey	1400	1500	Arabic	Emirler	Waf	Turkey

Sorted by languages:

11750	Voice of Turkey	0900	1000	Arabic	Emirler	ME	Turkey
9540	Voice of Turkey	1400	1500	Arabic	Emirler	ME	Turkey
17770	Voice of Turkey	1400	1500	Arabic	Emirler	Waf	Turkey
11730	Voice of Turkey	0700	0800	Azeri	Emirler	Cau	Turkey
9505	Voice of Turkey	1530	1630	Azeri	Emirler	Cau	Turkey
7210	Voice of Turkey	1100	1130	Bulgarian	Emirler	Eu	Turkey
6165	Voice of Turkey	0300	0400	English	Emirler	ME	Turkey
7275	Voice of Turkey	0300	0400	English	Emirler	Eu	Turkey
7275	Voice of Turkey	0300	0400	English	Emirler	NAm	Turkey
15450	Voice of Turkey	1230	1330	English	Emirler	Eu	Turkey
15520	Voice of Turkey	1630	1730	English	Emirler	SAs	Turkey
5945	Voice of Turkey	1830	1930	English	Emirler	Eu	Turkey
9875	Voice of Turkey	2030	2130	English	Emirler	Oc	Turkey
9830	Voice of Turkey	2200	2300	English	Emirler	ENA	Turkey
11795	Voice of Turkey	0830	1000	Farsi	Emirler	ME	Turkey
9765	Voice of Turkey	1500	1600	Farsi	Emirler	IRN	Turkey
7360	Voice of Turkey	1730	1830	French	Emirler	Eaf	Turkey
9635	Voice of Turkey	1930	2030	French	Emirler	WEu	Turkey
9880	Voice of Turkey	1930	2030	French	Emirler	Waf	Turkey
9655	Voice of Turkey	1000	1100	Georgian	Emirler	Cau	Turkey
13760	Voice of Turkey	1130	1230	German	Emirler	Eu	Turkey
9840	Voice of Turkey	1730	1830	German	Emirler	Eu	Turkey
13765	Voice of Turkey	0500	0700	Hausa	Emirler	NIG	Turkey
9610	Voice of Turkey	1400	1430	Italian	Emirler	SEu	Turkey

11825	Voice of Turkey	1330	1400	Kazakh	Emirler	CAs	Turkey
17720	Voice of Turkey	0400	0500	Malay	Emirler	INS	Turkey
17620	Voice of Turkey	1100	1200	Mandarin	Emirler	FE	Turkey
11765	Voice of Turkey	1500	1630	Pashto & D	Emirler	AFG	Turkey
11965	Voice of Turkey	1300	1400	Russian	Emirler	EEu	Turkey
7260	Voice of Turkey	0100	0200	Spanish	Emirler	Car	Turkey
9870	Voice of Turkey	0100	0200	Spanish	Emirler	SAm	Turkey
11930	Voice of Turkey	1630	1730	Spanish	Emirler	SEu	Turkey
11740	Voice of Turkey	1000	1030	Tatar	Emirler	EEu	Turkey
7360	Voice of Turkey	0000	0200	Turkish	Emirler	FE	Turkey
6040	Voice of Turkey	0400	0600	Turkish	Emirler	ME	Turkey
9770	Voice of Turkey	0400	0600	Turkish	Emirler	CEu	Turkey
11530	Anti-Kurdish Tape	0500	1500	Turkish	Emirler	ME	Turkey
11675	Voice of Turkey	0600	1200	Turkish	Emirler	ME	Turkey
11750	Voice of Turkey	0600	0900	Turkish	Emirler	IRN	Turkey
11955	Voice of Turkey	0600	1200	Turkish	Emirler	ME	Turkey
13635	Voice of Turkey	0600	1300	Turkish	Emirler	Eu	Turkey
9840	Voice of Turkey	1300	1600	Turkish	Emirler	Eu	Turkey
9525	Anti-Kurdish Tape	1500	2100	Turkish	Emirler	ME	Turkey
5960	Voice of Turkey	1600	2100	Turkish	Emirler	ME	Turkey
9460	Voice of Turkey	1600	2100	Turkish	Emirler	Eu	Turkey
15285	Voice of Turkey	1200	1230	Turkmen	Emirler	CAs	Turkey
13710	Voice of Turkey	1200	1300	Urdu	Emirler	PAK	Turkey
9465	Voice of Turkey	0200	0300	Uyghur	Emirler	FE	Turkey
15410	Voice of Turkey	1230	1330	Uyghur	Emirler	FE	Turkey
15235	Voice of Turkey	1030	1100	Uzbek	Emirler	CAs	Turkey

(EiBi List <<http://www.eibispace.de>> - selected via Dan Ferguson- K4VOA - combined A-20 database, via wb)

11825.023 TRT Kazakh folk mx of S=9+25dB strength noted in remote Doha SDR unit, at 13.24 UT on March 31. String instrument played and girl singer folk mx.

11965.009 TRT Russian sce to European Russia target. S=9+30dB or -45dBm powerful in Moscow remote KIWIset unit, S=9+15dB in Irkutsk Central Asia. 13.31 UT on March 31.

and five services more:

9540.007 TRT Arabic sce dance mx, S=9+30dB in remote SDR unit at Delhi, at 14.05 UT on March 31.

and // 17770.028 TRT Arabic towards Sahel Ce & WeAfrica sce, S=9+30dB strong at Doha Qatar unit. 14.10 UT.

9610.005 TRT Italian scheduled, Turkish mx played at 14.14 UT, S=9+25dB, but was OFF still at 14.25 UT.

9840.004 TRT Turkish mx program, S=9+15dB noted at Doha Qatar SDR unit.

and noted some adjacent whistle tone likely VoVTN Son Tay in Japanese on 9839.774kHz odd fq at 14.36 UT on March 31.

(wb df5sx, wwdxc BC-DX TopNews March 31)

U.S.A. - 13604.997 kHz Radio Marti from US Radiostation AGM United States Agency for Global Media (USAGM) at Greenville - B site North Carolina US state, powerhouse signal of S=9+30dB at 13.55 UT on March 29.

6195 kHz WBCQ 0300-0400 UT UT, German, from Monticello USA smtwfs zone 28, 500 kW at 54 degrees azimuth USA HFCC

[selected SDR options, span 12.5 kHz RBW 15.3 Hertz](wb df5sx, wwdxc BC-DX TopNews March 29)

Reception WHRI Angel 2 La Voix Des Eaux Vivantes in French April 10:

0430-0600 9825 HRI 250 kW 47 deg to WEu English Daily except in French

0515-0530 9825 HRI 250 kW 47 deg to WEu Fr La Voix Des Eaux Vivantes.

(Ivo Ivanov-BUL, hcdx via wwdxc BC-DX Topnews April 10)

Brother Stair, VOROW Radio Int & Supreme Master TV via WRMI#9, April 2:
 1200-1300 15770 RMI 100 kW 44 deg WEu English Daily BS TOM
 1300-1400 15770 RMI 100 kW 44 deg WEu English Thu VOROW RadioInt.&
 1400-2000 15770 RMI 100 kW 44 deg WEu English Daily Supreme Master
 (Ivo Ivanov-BUL, hcdx via wwdxc BC-DX Topnews April 3)

U.S.A. [non] - R Free Asia A20 season schedule - effective March 29 - October 25, 2020:

Burmese

0030-0130 on 12120TIN 15110SAI 15700TIN
 1230-1330 on 7530TJK 9370TJK 11805TIN
 1330-1400 on 7530TJK 11805TIN 12140TIN
 1400-1430 on 7530TJK 11805TIN

Cantonese

1400-1500 *FNP 13575SAI

Khmer

1230-1330 on 9700TJK 12140TIN
 1430-1500 on 9355SAI 12140TIN
 2230-2330 on 9890SAI 12140TIN

Korean

1500-1700 on 9850SAI 9990TJK 11985SAI
 1700-1900 on 9990TJK 11985SAI
 2100-2200 on 9540TJK 11945SAI 11985TIN

Lao

0000-0100 on 9940KWT
 1100-1200 on 15195TIN

Mandarin

0300-0400 on 11570TJK 11895SAI 11985KWT 17690SAI
 0400-0500 on 11895SAI 13750KWT 17690SAI 21505TIN
 0500-0600 on 11895SAI 17690SAI 21690TIN
 0600-0700 on 11895SAI 13790SAI 17690KWT 17810TIN
 1500-1600 on 9940KWT 11675SAI 13810TJK
 1600-1700 on 7540TJK 11610TIN 13570SAI 13810TJK
 1700-1800 on 9360KWT 9970SAI
 1800-1900 on 9360KWT 9970SAI 11745KWT
 1900-2000 on 9360KWT 9720SAI
 2000-2100 on 6080TJK 9360KWT 9535SAI
 2100-2200 on 7435KWT 9685KWT
 2300-2400 on 9535KWT 9720KWT 15555SAI

Tibetan

0100-0200 on 9370TJK 9510KWT 9705TJK 11705KWT 13765TJK
 0200-0300 on 9370TJK 11705KWT 11745SAI 13765TJK
 *FNP / KWT 11820tu_th 11895mothfr 11925sasu
 1000-1100 on 13800KWT 15330TIN
 *FNP / TIN 21455tu 21465mo 21475sa 21505su 21520fr 21540we 21565th
 1100-1200 on 13580TJK 15265BIB 15470TJK 17640TIN
 1200-1300 on 11570KWT 13580TJK 15470TJK 17690TJK 17720LAM
 1300-1400 on 11570KWT 13835TJK 15275TJK 15470TJK 17860SAI
 1500-1600 on 9355TJK 12110KWT
 *FNP / TIN 13720sututhsa 13790mowefr
 2200-2300 on 7505TJK 9380KWT
 *FNP / KWT 7460mo 7465fr 7470tu 7520suwe 9655th 9920sa
 2300-2400 on 5965KWT 9555TJK 9875TJK

Uyghur

0100-0200 on 9350TJK 9780KWT 9800BIB 11640KWT 11790KWT
 1600-1700 on 9355TJK 9480KWT 11675TIN 15700BIB

*FPN Frequency Not Promoted ("A.J." Janitschek, Director Program & Operations Support, Radio Free Asia)
 (via Rich D'Angelo-VA-USA, March 11, NASWA iog)

U.S.A / U.K. - WLCRadio via WBCQ-6 & via ENC-DMS Woofferton, March 29:

1800-1855 9330 BCQ 500 kW 54 deg to GERM German Winter B-19
 1900-2155 9330 BCQ 500 kW 70 deg to NoWeAF Arabic Winter B-19
 1800-2100 9800 WOF 250 kW 114 deg to NE/ME Arabic, is on air!
 2100-2400 6015 WOF 250 kW 172 deg to NoAF Arabic, is on air!
 0000-0100 6015 WOF 250 kW 172 deg to NoAF Arabic NOT ON AIR!
 0100-0400 6010 WOF 250 kW 114 deg to NE/ME Arabic NOT ON AIR!
 0400-0600 7260 WOF 250 kW 170 deg to NoAF Arabic NOT ON AIR!
 (Ivo Ivanov-BUL, hcdx via wwdxc BC-DX TopNews March 29)

U.S.A. [TAIWAN / non] - 5800 kHz, March 16 at 0059.5 UT, WRMI ID by BZ after SMTV, and instead of RAE Spanish relay repeat, 0100 UT into music, unseemsthe publicized RTI relay test, but at 0102 UT I am hearing YL in Spanish with Chinese accent, talking about Dia Mundial de la Radio which was back on 13 febrero; S=9+20/30dB. Soon mentions Radio Taiwan Internacional, so that's it with old program for test; includes music breaks and sounders. 0129 UT RTI contact info; 0131 UT into some kind of music/fill.

The third series of relay tests, after two which went bust, is supposed to be UT March 16-17-18:

0100 on 5800
 0200 on 5010
 2200 on 7780 kHz.

5010 kHz, March 16 at 0228 UT I barely tune in time to catch closing of RTI, poor here, but guess what? It's also on very poor 7780 kHz, and much better 9395 kHz! (Just before WOR follows at 0230 UT on 7780 kHz.) Let's see what happen to these & other WRMI frequencies March 17-18.
 (gh, hcdx and WOR March 17)

UZBEKISTAN - Radio Ranginkaman via RRTM Telecom Tashkent on April 9:

1630-1700 7600 UZB 100 kW 236 deg to WAs Farsi R. Rainbow-very weak
 (Ivo Ivanov-BUL, hcdx via wwdxc BC-DX Topnews April 9)

VANUATU - R. Vanuatu, with decent reception on March 26: 5040 kHz from 0657 to 0659 UT; pop music; in vernacular; coronavirus PSA in English, "from the Ministry of Health Vanuatu".

3945 kHz on at *0700 UT; from 0703 to 0725 UT, with news in vernacular (every item about coronavirus); one sound bite in English (Aussie accent); 0725-0730 UT, with sports news (item about Olympics will be postponed); 0730-0744 UT, with preacher in vernacular (started with review of the situation with the state of emergency, then went on to preaching about coronavirus and Vanuatu - "Turn away from your sin," "God will give you life," "confess your sins," etc.); 0744 UT, repeat of coronavirus PSA in English; 0746-0804 UT, mostly pop songs; 0804+ UT a repeat of the same religious segment hear 0730-0744 UT.
 (Ron Howard-CA-USA, via wwdxc BC-DX TopNews March 26)

After being alerted by Radio New Zealand (RNZ Pacific) this morning that a tropical cyclone was hitting the islands of Vanuatu:

"Cyclone Harold made landfall on the Vanuatu island of Santo yesterday, with destructive winds as high as 235km/h." I tuned into Radio Vanuatu shortwave frequencies this morning (via the Northland NZ Kiwi SDR) and found they were still on air.

At 0940 UTC they were on 3945 kHz, then switched to 2485 kHz at 1000 UTC. Programming included Tropical Cyclone bulletins including in French then in English at 1026 UTC. At 1030 UTC switched to music until 1101 when signed off for the night with their anthem. ...

(Alan Pennington-UK, BrDXC-UK newsgroup April 7)

VATICAN STATE - Unscheduled broadcast of Vatican Radio Ukrainian Liturgy, April 7:

0600-0930 on 9645 SMG 250 kW 60 deg to EEU Ukrainian, fair to very good
 0600-0930 on 11925*SMG 250 kW 62 deg to EEU Ukrainian, weak to very good
 0600-0645 on 11930 SMG 250 kW 118 deg to NE/ME It/Ar/Fr Mo-Sa, IS CANCELLED
 * instead of 11930 SMG 250 kW 62 deg to EEU registered HFCC Summer A-20!
 (Ivo Ivanov-BUL, WOR & hcdx via wwdxc BC-DX Topnews April 7)

VIETNAM - 7906usb mode Ben Thuy Radio, on 8 April at 1252 UT, reports in Vietnamese language, 45333 on Hanoi remote Kiwi SDR.

7906usb mode Ho Chi Minh Radio, on 8 April at 1305 UT, reports in Vietnamese (no English heard), end at 1315 UT with noise sequence, 35333 on Hanoi remote Kiwi SDR //
 8294 kHz which ended the broadcast at 1310 UT during a break, 35422, better audio than 7906 kHz.

These are the coastal radio stations operated by VISHIPEL (Vietnam Maritime Communications and Electronics LLC) to assist fishing boats, etc. Website at <<http://vishipel.com.vn/Index.aspx>>

Map of their many coastal stations at <<https://app.box.com/s/upqck6tw6yby02jgll32099xfswdakg>>

You might be interested in tuning into *8812-USB, Ho Chi Minh Radio* - Vietnam Coastal Station, from about *1240-1242* UT in Vietnamese and about *1242-1244* UT *in English*; starts with "Weather information for South China coastal waters /Fued by the Hong Kong Observatory at ... time and date given ...," also "Area forecast for the next 24 hours" and "End of broadcast."

(Ron Howard-CA-USA, WOR and direct via wwdxc BC-DX TopNews April 9)

Editor's info desk was closed for this edition on April 11th, 2020, at 18:00 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.

Dr. Hansjörg Biener (hjb) - Nuremberg - Germany

Others as stated at contribution.

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), KII - 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)

E-Mail: <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.

Review of the QRM Eliminator X-phase

Posted on April 6, 2019 by Jean-Paul Suijs - PA9X

If you see figures regarding solar activity, you could conclude that we are very close to the start of a new solar cycle. That means within a few years my beloved 10 meter band will open up again for DX. But I have also been struggling for four years with extreme QRM levels on the higher HF bands. On 10 m even up to S9. Main cause is the solar panel installation on my next door neighbour's rooftop (more about that in this previous blog post). I wanted to tackle this QRM without my neighbour having to shut down his solar panels. By coincidence I ran into a video shared by an old radio friend in Switzerland. He demonstrated a QRM Eliminator. I always thought that these devices were not very effective, but I was impressed by how he just turned the QRM away. OK, I had to have one of these, because it could be the key to DX'ing on 10 m again.

My setup

Good to know is my radio setup. I use a Kenwood TS-480HX. Antennas are a 13 m tall vertical with a CG-3000 remote autotuner for 160 m to 10 m and a horizontal dipole for 6 m band. Radio is hooked up to a laptop for digimode and remote control over the internet.

The principal of X-phase QRM elimination

First of all the basic principal of this device. A QRM eliminator is also known as an X-phase device. It works on the principal of phase shifting. When you take two separate but identical signals, you can mix them together. If the signal, take a sinus wave in mind, has a positive peak value of +10 and the identical signal is added to it, your output is +20. So, what comes out is a signal that is amplified. But now we delay one signal and again take a sinus wave in mind. We delay it that much, that the negative part of one wave comes out at the same time as the positive part of the wave. The positive peak of the wave is +10 and the negative -10,

so if you take +10 and add -10, the result is 0. You actually cancelled the signal and nothing comes out.

Two antennas

The QRM eliminator needs two antennas. You could use equal antennas, but that is not a necessity. The QRM eliminator has a built in preamplifier and attenuator which allows you to make both signals equally strong. You need to put the device between your radio and main antenna and then add a, what I call, secondary or auxiliary antenna. The device has a relay which bypasses the eliminator and switches to the main antenna. To operate this relay you need a PTT cable from your radio to the QRM eliminator, also known as an amplifier control cable.

Commercially available types

There are two commercially available QRM eliminators, MFJ Enterprises offers the MFJ-1025/1026 and WiMo offers the QRM Eliminator. There are small differences between those two. WiMo's device covers 3.5 to 54 MHz. The MFJ covers 1.8 to 30 MHz. WiMo also claims it's version can handle 200 Watt input. That's attractive when you use a 200 Watt Kenwood TS-480HX like I do. The difference between the MFJ-1025 and MFJ-2016 is that the 1026 has a built in telescopic reference antenna. At time of writing the WiMo costs € 159.00, excluding shipping. The MFJ-125 costs € 225.00 excluding shipping at the Dutch distributor. If you are a handy guy, you could consider building one yourself. There are several kits available through eBay and other (commercial) providers. Some radio clubs also offer it as homebrew projects. Prices for kits average between € 50.00 and € 100.00. PTT cables are also commercially available, around € 25.00 average, but you can also make one yourself. Check the manual of your radio for the pin settings.

The US4LG version from eBay

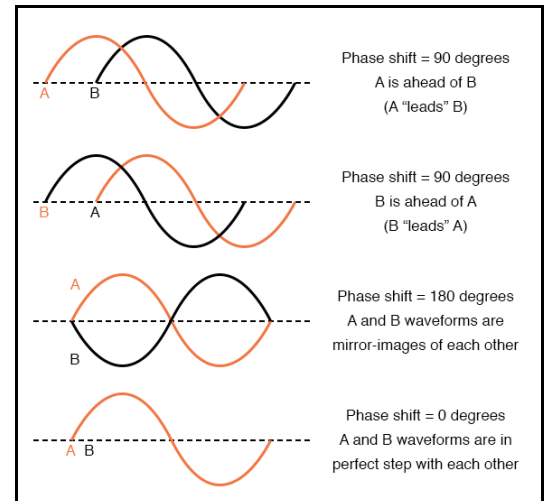
If you do a search on eBay you might also run into versions built and offered by other hams. This is where it got interesting for me. Kits are always difficult for me as I have a badly functioning right hand. I cannot hold a soldering iron too long. Even soldering a UHF plug is quite a challenge. So, I wanted to buy a ready made device. I ran into two amateurs who both offer a QRM eliminator. The version that US4LG Igor build is my favourite. It covers 1.8 to 30 MHz. Its casing is very sturdy, has big knobs making it easy to operate. The finishing is of commercial high quality. Even more interesting is that it also has a VOX based bypass switch. When it senses RF signal on the input, it activates the bypass relay. It means you have a reliable backup system for whenever you forget to hook up your PTT cable or you're the PTT control on our radio is switched off by accident. If you decide to put in 100 Watt without bypassing, you WILL damage the device. The US4LG version can handle 100 Watts input. I believe that is in digimode. I am not sure if it will handle more power in SSB.

Total investment

The price: I bought it for € 69.90 (dollar-euro exchange rate at the time of ordering) including shipment. My luck that the package passed customs without having to pay import taxes and VAT. Otherwise I would have paid about € 100.00 in total, which is still less than the ones from WiMo and MFJ.

Unboxing

I ordered the QRM Eliminator on Sunday, it was shipped the next day and I was able to track the package until it boarded for The Netherlands. It arrived on Saturday, so the shipment from Ukraine to The Netherlands took just five days. It was very well packed in multiple layers of bubble wrap. The shipment contained:



- QRM Eliminator X-phase
- Manual
- 12 Volt power cord
- PTT cable

The PTT cable has an RCA plug (cinch) on one end and stripped and soldered wires on the other end. You only need to solder a plug that fits the amplifier control port of your radio. Or acquire a readymade PTT cable (also available through eBay or local radio shops). You will also need a short cable to hook up your radio to the TX input of the QRM Eliminator. It has SO-239 connectors for both antennas in TX input.



Plugging in and turning the knobs

My TS-480HX needs an 8 pin mini DIN make connector to hook up a PTT cable. I thought I had one, but it turned out to be a 9 pin version. Believe me, no mods available to fit it into an 8 pin female output. I had to rely on the VOX switch for its maiden test and in the meantime ordered an 8 pin version on eBay. What else did I need? O yes, an aux antenna. That is easy to make with a few meters of electrical wire running through the shack. Powered it on and nothing happened to the signal, still much QRM! Next step is cancel out the QRM by turning the phase knob. Something happened there, the QRM decreased. Next step was to equal the signal strength from the main antenna to that from the aux antenna. I had to turn up the signal from the aux antenna completely and entirely turn down the main antenna. But clearly the QRM was about three S-points less. I concluded that the signal picked up by the aux antenna was too weak, so work to do. Next question, will the VOX work?

Pushing the mike PTT

Without a PTT cable I had to rely on the built in VOX. I turned the power of the radio down to 5 Watts. Pushed the mike's PTT button, and.... the bypass light turned on while I could hear the relay switching to the bypass. I tested the VOX furthermore with 100 Watts, but also with 1 Watt which was enough to activate the bypass. The builtin VOX is sensitive and reliable.

Better aux antenna

Earlier I mentioned that the current aux antenna (the wire), did not produce enough signal strength, to really cancel out the QRM. I had no other antenna within reach other than a 6 m dipole with horizontal polarization, which sits just below the vertical antenna. I presumed I needed to have the same polarization as the main antenna, but decided to give it a try with the 6 m dipole. Surprisingly, that worked quite well. It produced enough signal so the main antenna signal did not need attenuation. The aux antenna signal still needed amplification, but less than the wire antenna in the shack.

Close to zero QRM

A very annoying QRM appears on 20 m band when the sun sets. Listening through this QRM really need concentration and is extremely tiring. The cause of this QRM lies in the inverters on my neighbour's solar panel installation which pulsate as the panels produce less current. It lasts for an hour. Exactly the time period when grey line DX window is open.

Next step is to improve the aux antenna. I presume giving it vertical polarization and better bandwidth, it allows me to cancel out more nasty QRM across the entire HF spectrum.

(PA9X Radio amateur blog <<https://www.pa9x.com/review-of-the-qrm-eliminator-x-phase>>)



DX LOGBOOK

Logs around the clock

by Ashok Kumar Bose, 106 Aspermont Crescent, Brampton, Ontario, L6P 3Z3, Canada
E-Mail: <logbook@wwdxc.de>

MEDIUMWAVE & SHORTWAVE BANDS

Here are the loggings from Richard Lemke of St. Albert, Alberta, Canada (RL):

- 5800.0 USA: WRMI 0300 Radio Prague Intl, 0318 parental leave mothers 0328 (553) March 22
5850.0 USA: WRMI, 0200, heard #56 Music show playing vinyl records, (555), March 19 UTC also heard on 9395 kHz (452), after 0230
5960.0 GERMANY: The mighty KBC Radio Nauen, Germany 0131, Digital test, beach boys, 0133 (453), March 15
6060.0 CUBA: Radio Havana Cuba 0335 (553) 0331 Mailbag Show Plus March 23
6145.0 CUBA: Radio Havana Cuba, 0329, Mailbag Show (543), March 19.
6150.0 ROMANIA: Radio Romania International, 0325 language heard, QRM 6145 kHz, RHC, (543), March 17
9395.0 USA: WRMI, Radio Prague International, 0141 World of Radio # 2026 (453) 0144 Halfway mark March 23.
9455.0 USA: WRMI Miami heard Encore Classical music Radio Tumbriel 0202 xylophone music 0208 (553) March 23
9955.0 USA: WRMI, Miami 0102 Blues Radio Intl, heard Ben Rice 0125 (453) Roy Block 0129 March 23
11880.0 CUBA: Radio Havana Cuba 2332 Corner taking quickly (453) March 21.

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

- 610.0 BRAZIL: Radio Indio Condá, Chapecó SC, Portuguese, 07/04 0106. Advs Livraria Estrela, Av. Getúlio Vargas, Chapecó'. Id '..Super Condá...'. 23543
630.0 BRAZIL: Radio Paraná Educativa, Curitiba, Portuguese, 31/03 1012. Brazilian songs. 'Programa Primeiros Acordes, pela Paraná Educativa'. 35543.
670.0 BRAZIL: Radio Cidade, Curitiba PR, Portuguese, 31/03 1003. 'Você ouve pela Radio Cidade, as notas de falecimento, Curitiba...' male communication. 35543.
680.0 BRAZIL: Radio Difusora, Jataí GO, Portuguese, 31/03 0955. 'As melhores modas você ouve aqui no 'Bom dia, Sertão', Difusora, todo mundo ouve'. 25542.
690.0 BRAZIL: Radio Brasil, Santa Barbara do Oeste SP, Portuguese, 31/03 0950. 'Você está ouvindo pela Radio Brasil AM, Seleção Sertaneja, com J. Alves'. 35553.
710.0 BRAZIL: Radio Cancellia, Ituiutaba MG, Portuguese, 31/03 0940. Brazilian songs, 'Cancellia, ouvintes do Triangulo Mineiro, programa 'Manhã Sertaneja'...' . 35553.
720.0 BRAZIL: Radio Clube, Dourados MS, 30/03 2348. Christian program 'A Voz da Libertação, Igreja Pentecostal Deus é Amor', testimonies. 23422.
720.0 BRAZIL: Radio Sentinela, Ourinhos SP, Portuguese, 30/03 2342. Brazilian oldies, id 'Sentinela, a música que você gosta de ouvir'. 24542.
720.0 PARAGUAY: Radio Pai Puku, Tenente Manuel Irla Fernandez, Spanish, 31/03 0008. A Paraguayan style instrumental music by harp, male communication. 23542.
750.0 BRAZIL: Radio America, Belo Horizonte MG, Portuguese, 07/04 0040. Male announcer '...aqui pela Radio America...'. 34543
750.0 BRAZIL: Radio Piratininga, São José dos Campos SP, Portuguese, 07/04 0045. Id 'Radio Piratininga'. 24542.
790.0 ARGENTINA: Radio Mitre, Buenos Aires, Spanish, 28/03 2246. Male communication (2 speakers), 'Mitre'. 35543.
864.0 EGYPT: ERTU Al-Quran al-Karim, Santah, Arabic, 22/03 0110. Quran songs by male voice. 25442. Holy Quran.
1020.0 BRAZIL: Radio Eldorado, Porto Alegre RS, Portuguese, 20/03 0431. Brazilian song, announcer: 'leia O Sul... Eldorado, 1 hora e 31 minutos'. 34543.
1020.0 PARAGUAY: Radio Ñanduti, Asunción, Spanish, 20/03 0437. Announcements, jingle 'Ñanduti...' 33543.
1100.0 CHILE: BBN, Viña del Mar, Spanish, 21/03 0318. Songs, male voice in SS. Full BBN style. 24432. Good reception also on 22/03 0112 25552.

- 1110.0 ARGENTINA: Radio de la Ciudad, Buenos Aires, Spanish, 20/03 0443. Male communication, pop song in EE, 'Ciudad...' 24542.
- 1110.0 BRAZIL: Radio Cultura, Florianopolis SC, Portuguese, 21/03 0254. Rede Imaculada, Id, Catholic program. 23542.
- 1110.0 ARGENTINA: Radio de la Ciudad, Buenos Aires, Spanish, 05/04 0104. Jingle '... todo el mundo mundo junto con la Ciudad...'. 34543.
- 1110.0 BRAZIL: Radio Aurilândia, Nova Lima MG, Portuguese, 05/04 0055. Male communication, id ZYL 267 Radio Aurilândia, Nova Lima, Minas Gerais. 23522
- 1110.0 BRAZIL: Radio Cultura, Florianópolis SC, Portuguese, 05/04 0059. Jingle 'Cultura, todo o mundo ligado...'. 24542. On 0100, in connection with a night National Catholic Net, Rede Milicia (until 0800 UTC).
- 1120.0 URUGUAY: Radio Salto, Salto, Spanish, 21/03 0212. Religious program, mention to 'Salto' (twice), male communication, Bible reading. 23542. QRM 1120 kHz Radio Imperial (Taquaritinga SP).
- 1140.0 BRAZIL: Radio Bandeirantes, Rio Claro SP, Portuguese, 22/03 0200. Relay from 840 kHz Radio Bandeirantes São Paulo, 0200 time pips, 'Bandeirantes' 33533.
- 1160.0 BRAZIL: Radio Cacique, Taubaté SP, Portuguese, 28/03 2210. Brazilian songs, jingle '1160 Radio Cacique, a rádio do coração de Taubaté'. 34543.
- 1180.0 BRAZIL: Radio Nova, Bebedouro SP, Portuguese, 28/03 2217. Jingle 'Radio Nova, ZYK749, Nova, Bebedouro, a sua melhor companhia'. 35443.
- 1210.0 BRAZIL: Radio Vanguarda, Sorocaba SP, 06/03 2040. Brazilian & intl' oldies. Id: 'Radio Vanguarda'. 35543.
- 1220.0 ARGENTINA: Eco Radio, Buenos Aires, Spanish, 31/03 0115. Two male announcers discussing about coronavirus. 35553.
- 1230.0 BRAZIL: Radio Jovem Pan News, Campinas SP, Portuguese, 26/03 1320. Id 'Radio Jovem Pan News'. // with 620 kHz Radio Jovem Pan, São Paulo. 22552. Strong QRM 1230 kHz Radio Atual (relaying Super Rede Boa Vontade de Radio, São Paulo). Regular reception w/ loop antenna facilities.
- 1280.0 BRAZIL: Radio Tupi, Rio de Janeiro RJ, 06/03 2051. Jingle 'Tupi', sport News, Flamengo, reporter, phone-in. 35553.
- 1310.0 BRAZIL: Radio Bragança, Bragança Paulista SP, Portuguese, 26/03 1330. Advs from Bragança Paulista, 'Radio Bragança'. 35543.
- 1330.0 BRAZIL: Radio Clube, Blumenau SC, Portuguese, 28/03 2108. Brazilian songs, id 'Radio Clube', advs. 34543. QRM 1330 kHz Radio Terra, Osasco SP.
- 1350.0 ARGENTINA: Radio Buenos Aires in Spanish, 28/03 2114. Adverts 'Universal' (Church), Id by male voice 34543.
- 1350.0 ARGENTINA: Radio Buenos Aires, Buenos Aires, Spanish, 07/04 0025. Id 'Radio Buenos Aires, Iglesia Universal del Reino de Dios...' 'Radio Buenos Aires informa'. News bulletin by male and female voice. 35543. A strong signal received in Ibiuna.
- 1380.0 BRAZIL: Radio Frecuencia, Garopaba SC, Portuguese, 06/04 2150. Brazilian songs, jingle 'Radio Frecuencia, a sua sintonia, mais música...'. 35553. A strong signal.
- 1510.0 BRAZIL: Radio Aleluia Music (via Radio Vale do Tietê), Salto SP, Portuguese, 26/03 1443. Id: 'ZYK770, Radio Vale do Tietê, Salto, São Paulo... a partir de agora a programação da Radio Aleluia Music'. 35553.
- 1540.0 BRAZIL: Radio Trans Mundial (via Difusora Oeste), Osasco SP, Portuguese, 26/03 1337. Id 'Trans Mundial', Christian song, communication by female voice. 45554.
- 1710.0 ARGENTINA: Radio Selva, Buenos Aires, Spanish, 29/03 0145. Id 'Selva AM 1710, transmitindo de Buenos Aires para el mundo... Selva'. Argentinian style instrumental music. 23422.
- 5915.0 ZAMBIA: Zambia NBC Radio 1, Lusaka, Vernacular, 06/03 2008. Songs by male voice, African style. 25532
- 6090.0 ETHIOPIA: Radio Amhara, Addis Abeba, Amharic, 06/03 2016. Male communication, African style song. 34543.
- 6120.0 TURKEY: Voice of Turkey, Emirler, Turkish, 06/03 1942. Songs in Turkish style, male communication. TX w/138° AZ to Southwestern Asia.
- 6130.0 ESWATINI: TWR Africa, Manzini, Portuguese, 06/03 1949. Announcements, 1950 Interval Signal from TWR Africa, begin of program in Kimbundu language. 35543. TX w/312° AZ to Africa.
- 6170.0 FRANCE: Radio Algerienne Chaîne 1, via Issoudun, French, 06/03 2002. Songs in Arabic language. 25542. TX w/194° AZ to Northwestern Africa.
- 9330.0 USA: World Last Chance Radio, via WBCQ, Monticello, English, 20/03 0518. Christian message, male communication 'Shalom. Congratulations'. 35433. TX w/300° AZ to Canada.
- 9680.0 ZAMBIA: Voice of Hope Africa, Lusaka, English, 20/03 0510. Christian song, male voice: '... this is Voice of Hope Radio Network.' 35433. TX to Africa.
- 11815.0 BRAZIL: Radio Brasil Central, Goiania GO, Portuguese, 20/03 0523. Brazilian song, male communication, id 'Brasil Central, comunicando...' 35443.
- 13670.0 MADAGASCAR: World Christian Broadcasting KNLS (Radio Fedá), via Mahajanga, Arabic, 06/03 1910. Christian songs, message by male voice. 25542. TX w/320° AZ to Northwestern Africa.
- 13685.0 MALI: China Radio International, via Bamako, Arabic, 06/03 1920. Chinese lesson, teaching by male and female voices. 35553. TX w/20° to Northern Africa.
- 13820.0 USA: Radio Marti, Greenville, Spanish, 06/03 1928. Male communication, 'Cuba, Marti.' another male announcer (phone-in). 35543. TX w/184° to Cuba.

Thanks a lot to our club members for their contributions:

RL : Richard Lemke, St. Albert, Alberta, Canada. JRC NRD-535 HF with random long wires in the trees.
 RG : Rudolf Grimm, São Bernardo, SP, Brazil. Kiwi SDR with mini whip-PA0RDT Standard.

Dear Friends,

Most parts of the world is in distress with COVID 19 pandemic.

So we have a short Logbook this month.

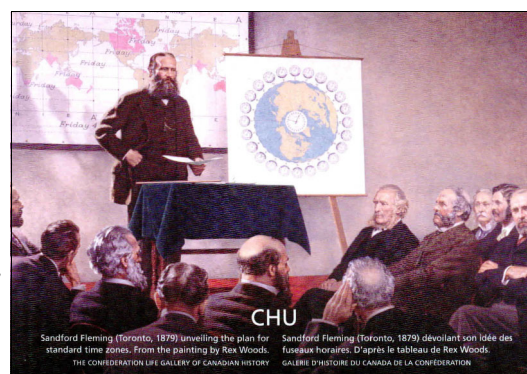
Thanks to our contributors for this edition of Logbook and hope for the best in future,

Ashok Kumar Bose

	<h3>QSL CORNER</h3> <p>Editor: Dario Gabrielli, Viale della Resistenza 33b, 30031 Dolo (Ve), ITALY eMail: <qsl@wwdxc.de></p>	
--	---	--

Austria/Germany: Radio DARC from Bavaria has verified my report about a transmission over the Austrian Moosbrunn Relay on 6070 kHz. The program was a special one celebrating 5 Years of existence of Radio DARC. DARC is the German Radioamateur Club who produce every week a 1 hour program in German, which is on air every Sunday between 0900-1000 UTC with 100 kW. (HS)

Canada: CHU Time Signal Station 3330 kHz. Time announcements in English and French. Full data colour QSL in English/French (Sandford Fleming unveiling the plan for standard time zones). Received in 12 days (9 days for mail delivery) for e-mail report with audio file to <radio.chu@nrc.ca>. E-mail from Bill Hoger on the day of sending the QSL acknowledging receipt of the reception report and informing about to coming QSL. (HB)



<p>2020 QSL</p> <p>Mike Radio <i>The Netherlands</i></p> <p>WWW.MIKERADIO.NL</p> <p>medium- & shortwave radiostation</p>
--

Czech Republic: Radio Prague 7780 kHz via WRMI Okeechobee (USA). English service. Full data colour QSL (Transmitter in the Czech Republic: Liblice transmitter). Received in 27 days (4 days for mail delivery) for e-mail report to <cr@radio.cz> (HB)

Netherlands: Mike-Radio 3905 kHz. Oldies music service with IDs in English and Dutch. Thank you e-mail in English and no data e-QSL for 2020 (blue and white colours) received in 1 day for report sent via website

<<https://mike-radio.nl>> (HB)

Russia: Radio Gazeta Slovo from St. Petersburg has been send a nice E-mail with Logo of station and has verified my reception in Strasshof on MW 828 kHz within 1 day. VS: Chefredakteur V.P.Suworow via E-Mail: <radioslovo@mail.ru> (HS)

Taiwan: Radio Taiwan International 5900 kHz via Kostinbrod (Bulgaria). German service. Full data colour QSL in English (2020-3 Hualien Sweet Potato Cake) received in 22 days (18 days for air mail delivery) for e-mail report to <deutsch@rti.org.tw> (HB)

Thailand: Radio Thailand World service has verified after a reminder sent by letter as QSL-folder. The first report was sent by E-mail, but unfortunately without response. The reception was 2013 during my stay in the Philippines on Shortwave 15275 kHz. (HS)

Unofficial / Free Radio: Mystery 21 4700 kHz. Music service with IDs in English. General thank you e-mail received in 1 day (about 6 h, but on the next day) for report sent to <mysteryradio21@gmail.com> (HB)

The reporters of this edition of QSL CORNER have been:

HB = Hansjoerg Biener, Nuremberg (Germany)

HS = Harald Suess, Strasshof an der Nordbahn (Austria)

During this bad time caused by the Corona Virus I very much hope that you are all well and can lead a peaceful life with your families. Despite this life goes on and with great pleasure we can include this page dedicated to your verifications in our DX MAGAZINE. With the hope that everything can be concluded as soon as possible, I wish everyone a good day advising everyone to stay at home.

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 and not Programme section** where you sent your report to, also the postal or email addresses you sent your report to. And please also say if you sent any return postage e.g. IRC, stamps or money. The typical format should be:

Country & Name of radio station & Frequency in kHz, Type of QSL received e.g. QSL or e-QSL (**NOT SIMPLY "QSL"**), letter, Time for the reply in days. Any other details that might be useful.

Please remember that the next deadline to contribute to this page is on **9 May 2020** *Dario*