

SHORTWAVE BULLETIN

Issue no. 1996, Feb 20, 2022

Deadline e-mail next issue: 0800 UTC, March 6, 2022

Via Christoph Rutzer in A-DX we got exiting information that Nico Palermo is working on a new exceptional receiver.

One of the most amazing features is its ability to process multiple antenna sensors and produce results which are simply unbelievable and tremendously superior to those that can be achieved using common SDR's. More info later.

Also in this issue information and pictures of two boat anchors which not are so common among DX-ers, one is the Elektromekano M97.

On a DX-meeting long time ago, where also Göte Johansson participated, I had the opportunity to play with this rare receiver. But as I remember it was not as good as the R390A.

In the DX-columns there have been interesting information about two long time radio collectors, one in Brazil and one in the UK. More info later.

If you have something of interest for the DX-Nostalgia column just drop a line or two to Ronny Forslund.

Keep on

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Redaktion:

Thomas Nilsson

E-mail:

thomas.nilsson@ektv.nu

SWB-info

SWB on HCDX: <http://www.hard-core-dx.com/swb>
Dateline Bogotá 1993-1998: <http://www.hard-core-dx.com/swb/Dateline.htm>
SWB latest issue/archive: <http://www.hard-core-dx.com/swb/archive.htm>

QSL, comments, etc.

GLENN HAUSER LOG ROUNDUPS

Please note and spread the word - for those not on a list where my almost-daily all-band but mainly SW log reports appear -- or for those who are but find this a more convenient archive, weekly merged roundups of all these reports in their original form are posted early every UT Thursday via: <http://www.worldofradio.com/Hauserlogs.html>
The latest ones direct: https://www.w4uvh.net/ghlogs_2022_0210_0216.txt

(73, Glenn Hauser)

Verification from National Radio of Cambodia

I will add my verie letter and sticker from Cambodia for everyone to enjoy. The languages heard on these broadcasts were very pleasant and soft to my ears..

/Mick Delmage



Kem Yan
Director of International Relations
National Radio of Cambodia

January 15, 1999
Phnom Penh, ~~December 25, 1998~~

Dear Mr. Delmage

I have just received your kind letter concerning your reception report on our station and a recorded cassette on our broadcasting program that you have heard on August 12, 1998 and August 18, 1998.

I would like to confirm you that this is really our Station broadcasting in Lao language. It contained news in Lao accompanied by Cambodia music and song. The song <<My heart will go on>> of Celion Dion from Titanic movie was singed in Khmer language by a Cambodian woman. This program was broadcasting from 12.45 to 13.00 (GMT) on the frequency of 11.940Khz and 1360Khz and on the 25 and 221 meter band.

I express my deep thank to you for your listening and your interesting to our National Radio of Cambodia.

Please find enclosed two logos of National Radio of Cambodia and two program schedules.

I am looking forward to hearing from you more and hope to stay in touch.

Sincerely Yours,

Kem Yan

Thank you very much for the brochure about the city where you live in. This is a best kind of remembrance. Edmonton is a beautiful city! Best wishes to you for 1999.

2368.42	Feb19	1905	Symban R from 1905 tune (Sunday 0605 AEDT) with Greek Orthodox service (lots of chanting and periodic spoken liturgy from priest, and a woman at 1934.5) as hrd from SDR at VK5ARG N of Adelaide – nice S3+ signal with gray line at Sydney; relatively mild static; ocnl light CWQRM in background. After 1930 signal started a slow fade as gray line moved westward. Checked VK6QS in WA and got a solid waterfall presentation circa 1910 but no discernable audio. (Bruce Churchill via WOR)
3250	Feb9	2211	Korean Central BC Stn., Pyongyang. Tks. Adj. uty. QRM. 13341 (CG)
3310	Feb14	2345	Radio Mosoj Chaski, Cochabamba, om in Quechua, weak signal- (Wilkner)
3320	Feb9	2213	Pyongyang BC Stn., Pyongyang. Tks. 25341 (CG)
3325	Feb11	1007	VOI, via Palangkaraya. Thanks very much to Ivo Ivanov, who recently first observed the new schedule; now starting about an hour earlier than in the past ; formerly, for a long time, had started about 1100; today noted with news in English till 1009, when they played the usual patriotic song “Bagimu Negeri” (For You Our Country); followed by “Today in History”; announced frequency of “3-3-2-5 KiloHertz”; normal audio level during English (1007-1100), but by 1211 the audio was gone (just dead air). (Ron Howard, Asilomar State Beach, Calif.)
3330u	Feb14	2310	CHU time with strong signal (Wilkner)
3480	Feb9	2215	Voice Of The People (cland.), Goyang. Kor to KRE, tks. 25341 (CG)
3910	Feb14	2112	Voice Of The People (cland.), Goyang. Kor to KRE, tks. 25342 (CG)
3915	Feb6	2218	BBC, Kranji relay. WS in E to SEAs, sports rpt. 35342 (CG)
3930	Feb14	2114	Voice Of The People (cland.), Goyang. Kor to KRE, tks. 25342 (CG)
3975	Feb13	1907	Shortwave Gold, Winsen. Pops. 25331 (CG)
3980	Feb8	2223	R.Echo Of Hope (cland.), Gyengi-do. Kor to KRE, tks. Jammed. Fair on // 4885,6250. 34342 (CG)
3985	Feb14	2228	Unid; male talks. Aoki and EIBI mentions nothing at this time, very poor (LOB).
3985	Feb15	1055	<i>Aoki: 3985 0400-2400 KOR ECHO OF HOPE-VOH Kor Hwaseong 1-7</i> Voice of Freedom , 5920, at 1130 UT, with the start of the program “Aneun geos-i him-ida” (Knowledge is Power); fair; while ex: 6045 still has N. Korean non-stop super jamming. VOH: 3985 // 4890 // 5995 // 6255 // 6350 // 9105 , at 1138 UT; the weekday audio feed from a TV program called “Wang cho bo yeong-eo” (translated into English - Beginner's English), with “English trainers,” “Mayu” and “Mini”; “Computer in the box,” “A gift inside,” “There is no wonder this box is heavy,” “There is no wonder you are tired,” etc. (Ron Howard, California)
3985	Feb14	2116	R.Echo Of Hope (cland.), Gyengi-do. Kor to KRE, tks. 25342 (CG)
3985	Feb15	1913	R.Slovakia via Shortwave Sce., Kall. G, Winter Olympics nx. 35443 (CG)
3990	Feb6	1725	Xinjiang PBS, Urumqi. Uighur, mx, tks. 35342 (CG)
4010.2	Feb14	1741	Kyrgyz Radio, Bishkek, Kyrgyz songs. 15321. (Méndez)
4450	Feb17	1901	Voice Of The People (cland.), Goyang. Kor to KRE, tks. QRM de CODAR + KRE jammer. 23441 (CG)
4749.95	Feb11	1211	VOI, via Cimanggis/Jakarta. Clearly VOI and CNR1 (4750.0) mixing together here, along with CODAR QRM; both unusable, but certainly two stations. VOI is becoming more regularly heard here. (Ron Howard, Asilomar State Beach, Calif.)
4750	Feb13	1956	mixed Bangladesh and CNR, seems Bangladesh stopped at 1957 as CNR was more clear. (Liangas)
4750	Feb13	1913	Bangladesh Betar, Shavar. Bangla, mx, TS at 1915, anns.,tks. 35342 (CG)
4752	Feb11	0004	R. Huanta 2000, Huanta; male spanish ads “Instituto Pedagógico Nazareno...inspirar y transformar...educación primaria; La gota milagrosa...Lagrimas de Maria...aquí en Huanta”; seems “optimistic philosophy” speech by male. Fair, fady (LOB).
4752	Feb14	0012	Radio Huanta 2000, Huanta, om in SP, weak signal (Wilkner)
4765	Feb13	1952	Tajikistan, seems patriotic talks mentioning several times of Tajikistan, underground orchestral music / unequal side band modulation, S10 on Nosibirsk SDR (Liangas)
4765	Feb14	1745	Tajik Radio, Dushanbe, Tajik comments and songs. 15321. (Méndez)
4775	Feb16	2246	R.Tarma, Tarma. Cast, songs. 25342 (CG)
4810	Feb3	0016	R. Logos, Peru, San Martin; flute instrumental music. Very weak, listening on 4808kHz to avoid STANAG on 4810 (LOB).
4885	Feb8	2228	R.Echo Of Hope (cland.), Nowong-gu. Kor to KRE, tks. Jammed. Relatively fair on // 3980, fair on 6250. 34443 (CG)

4885	Feb18	2213	R.Club do Pará. Natl. nx magazine A Voz do Brasil. 45444 (CGS)
4890	Feb14	2118	R.Echo Of Hope (cland.), Nowong-gu. Kor to KRE, tks. Jammed. 24341 (CG)
4900	Feb13	1224	Voice of the Strait-3, presumed, Fuzhou, only a carrier (XM)
4940	Feb13	1222	La Montana Colombia, Maicao, W in probable religious talk, enough SP getting through to definitely rule out V of the Strait (XM)
4965	Feb15	1915	Voice Of Hope, Makeni Ranch. E, songs. 25331 (CG)
5040	Feb8	1020	Radio Vanuatu, out of air right now, checked via SDR Kiwi remote receivers in New Zealand. (Manuel Méndez)

			Hi Manuel - Also had the same results here in California! Feb 8 - Random checking from 1020 to last check at 1220; also noted no signal at all from Radio Vanuatu on any of their usual frequencies. Perhaps working on xmtr, as yesterday (Feb 7), they broadcast only dead air/open carrier, with no audio detected. Recently they had been running good audio levels (Feb 3, National Anthem. My audio at http://bit.ly/3AWvY7n). (Ron Howard, Asilomar State Beach, Calif.)
5040	Feb15	0835	R. Vanuatu, Vanuatu; male talks. Lower than yesterday's signal, poor (LOB).
5050	Feb13	1228	Beibu Bay Radio, presumed, Nanning, only a carrier (XM)
5055	Feb11	-0954*	Radio 4KZ, running hours past their former cut off time (0954:25* UT, on Feb 3); heard 0937 UT, till past 1225; pop songs (Foreigner - "I Want To Know What Love Is," Michael Bolton - "How Am I Supposed To Live Without You," Cliff Richard - "We Don't Talk Anymore," Bette Midler - "Wind Beneath My Wings," Whitney Houston - "Saving All My Love For You," etc.). Is this their usual seasonal schedule change? (Ron Howard, Asilomar State Beach, Calif.)
5915	Feb17	1907	ZNBC-Radio 1, Lusaka. Vn, tks. 25342 (CG)
5920	Feb11	1156	Voice of Freedom back to their alternate frequency of 5920 (ex: 6045) . Closing ID for the "Aneun geos-i him-ida" (Knowledge is power) program; 1200, the usual single tone; then "Jayu-e solibangsong-eseo bam 9 (ahob) sileul allyeodeulibnida." (In English - Voice of Freedom has announced 9pm); nice singing station jingle - "jinsil-e soli, huimang-e soli, jayu-e soli bangsong!" (Voice of Truth, Voice of Hope, Voice of Freedom broadcast); then the "Bodo gwangjang" (News Plaza) segment; fair. (Ron Howard, Asilomar State Beach)
5930	Feb10	2236	World Music R, Bramming. Pops. 25331 (CG)
5938.8	Feb18	2211	R.Voz Missionária, Camboriú SC. Natl. nx magazine A Voz do Brasil. 35433 (CGS)
5955	Feb10	2240	Sunlite R, Westdorpe. Du, pops, anns. & nx prior to 2300, wx. 35342 (CG)
5960	Feb6	0000	The Mighty KBC(Nauen) at 0000 with opening music and a man with ID of "Rocking over the ocean, all over Europe" we are the Mighty KBC" followed by spoken and singing IDs and funny promos and into DJ Dave Mason with oldies music – Good over Voice of Turkey in German Feb 6 (Coady-ON) – The Voice of Turkey is supposed to be off of this frequency at 0000. Just like with RHC, there's always something wrong at the Voice of Turkey unless it's with their Turkish service. (Coady-ON)
5960+	Feb15	2333	VOT direct is S9/S6 but just barely modulated. Checking UTwente at 2348 it's +016 Hz high undermodulated but sufficient if you turn up the volumes on strong S9+27 signal; compared to e.g. much louder 6015 station, Kazakh from East Turkistan, standard denunciation. Something's always erroneous at Emirler. 2353 unusual s/off by heavily accented YL as if this were the 1330 broadcast, IS until 2356* uncovering another Urumqi in Chinese, its CCCCCI having been audible before TRT quit. Now at least until the 0000 timesignal, another carrier is making a rumbling SAH, unaccounted for in listings, so I guess it may be the Emirler exciter before turned off completely (Glenn Hauser, OK, WOR)
5995	Feb10	2238	R.Mali, Kati. F, reg. nx. 35332 (CG)
6065	Feb14	1730	Voice of Hope Africa, Lusaka, English, DX program "Wavescan". 43433. (Méndez)
6070	Feb14	2310	CFRX Toronto news talk, crisis in Ukraine. (Wilkner)
6100	Feb13	0732	only RHC still on, but Spanish instead of English, S9/+40 without humbuzz; to continue with weekly 0800 Esperanto? zzz. Something's always wrong at RHC (Glenn Hauser, OK, WOR)
6170	Feb6	2129	RRI (Tiganesti) at 2129 // 6030 (DRM via Galbeni) and 7375 (Very Good via Galbeni) with IS to opening music at 2100 and Daniel Bilt with ID, target area, web platforms, and satellite receptron info and Ana-Maria Popescu with news at 2131 – Very Good (Coady-ON)
6255	Feb14	2129	R.Echo Of Hope (cland.), Hwaseong. Kor to KRE, tks, pops. Jammed. 34432 (CG)
6300	Feb13	0811	This UNID oddity on 6300-USB continues to broadcast during the same time period; 0811-0828, with non-stop reciting from the Qur'an; heard at a decent level (today's audio of three minutes of Qur'an - https://bit.ly/3uRikNj); after 0828, seems to be chatting in Arabic, but what is interesting is that the xmtr used for the Qur'an was not heard again, as the chatting xmtrs were extremely weak compared to the Qur'an xmtr. What is this curious broadcast? (Ron Howard, Asilomar State Beach, Calif.)

6300			The language sounded like Indonesian or Tagalog to me as well, but given the Qur'an, I would guess Indonesian. (Bruce Churchill via WOR)
6340.2	Feb13	1904	Sound Of Hope R Int'l, unk. site. Mand to CHN, tks. // 6230 25341 (CG)
6348.1	Feb10	2234	R.Echo Of Hope (cland.), Hwaseong. Kor to KRE, tks. Adj. uty. QRM. 24341 (CG)
6600	Feb7	2300	Voice Of The People (cland.), Goyang. Kor to KRE, tks. Jammed. 23441 (CG)
6970.1	Feb8	2244	Sound Of Hope R Int'l (p), unk. site. Tks. 15341 (CG)
6980.9	Feb13	2140	Sound Of Hope R Int'l (p), unk. site. Tks, mx. 15331 (CG)
7110	Feb8	1458	Ethiopia with Horn of Africa /HoA songs. S9 with QSB and good modulation. Kuwait SDr (Liangas)
7140	Feb8	1457	VoBM2 Eritrea with funny acapella songs with men really shouting instead of singing. poor modulation, lower than the Ethiopian S10 more stable signal Kuwait SDr (Liangas)
7210	Feb13	2004	VoK in Korean with news QRM from CNR on 7205 (Liangas)
7255	Feb15	0635	R. Voice of Nigeria, Abuja Luabe, Nigeria; music, male in Hausa talks (according Aoki), outside talks. Good (LOB).
7260.083	Feb20	-0559*	Radio Vanuatu closed on 7260.0825 at 0559:15. Checking 5040.0, they are strong here at 0750 UTC so likely the frequency change was at 0600 UTC. (Bryan Clark via WOR)
7390	Feb13	1735*	R.NZPacific, Rangitaiki. E, interview. DRM. Many signal breaks. Not cf. to sched. (CG)
7390	Feb6	1259	RNZ Pacific with IS to time pips at 1300 and a man with "RNZ News at 2 o'clock" to 1305 and local weather then back to "The All Night Program" - Good (Coady-ON)
7490	Feb6	2155	The Overcomer Ministry (via WBCQ Monticello, ME) at 2155 with the still very dead Brother Stair and his band of degenerates preaching and pontificating - Very Good (Coady-ON) - The only redeeming thing about this particular program was their playing Johnny Cash's "When the Man Comes Around" at 2158 which is an excellent and really quite dark Christian song. Too bad it wasn't played earlier as I'd rather see Brother Stair cut off mid-sentence at 2200 rather than having Johnny Cash being cut-off mid-song. (Coady-ON)
7490	Feb6	2200	Marion's Attic (via WBCQ Monticello, ME) with Marion Webster's excellent program of eclectic and really old music with her friend, Christina, spinning the discs and wax cylinders and reading listeners' mail - Very Good (Coady-ON)
7500	Feb6	2238	Chinese JBA S7-S8, presumably CNR1 jammer as always more likely to be heard than target in this case VOA via Thailand this hour only (Glenn Hauser, OK, WOR)
7730.1	Feb9	2229	Sound Of Hope R Int'l, unk. site. Mand to CHN, tks. 25341 (CG)
9105	Feb14	2131	R.Echo Of Hope (cland.), Hwaseong. Kor to KRE, tks, pops. 35433 (CG)
9260	Feb17	2209	Sound Of Hope R Int'l, unk. site. Mand to CHN, tks. 25342 (CG)
9666.7	Feb6	2213	R.Voz Missionária, Camboriú SC. Rlgs. songs. 35332 (CG)
9700	Feb14	0712	S9/+10 of dead air, trace? of modulation, the only RHC frequency still emanating. Something's always wrong at RHC (Glenn Hauser, OK, WOR)
9819.1	Feb18	2215	R. 9 de Julho, São Paulo SP. Natl. nx magazine A Voz do Brasil. Adj. QRM de CHN on 9820. 23441 (CGS)
9835	Feb13	2008	NHK in Japanese with S9 signal. (Liangas)
9899.60	Feb15	2121	check, R. Cairo is 100% improved: NO signal into UTwente! However, at 2204 UT, Andy Reid, Ontario tells the WOR iog: "With varying degrees of audio quality, I don't believe it is the transmitters. They are on now in English 9900 with some audio squeaking though. I did hear the word "president"!'" (Glenn Hauser, OK, WOR)
10715	Feb6	2211	Unidentified Spy Numbers Station (Bejucal) in Spanish with HM-01 digital text file transfer tones and a woman with five figure number groups - Fair to Good (Coady-ON)
11635	Feb6	2145	Unidentified Spy Numbers Station (Bejucal) in Spanish with HM-01 digital text file transfer tones and a woman with five figure number groups - Fair to Good (Coady-ON)
11725	Feb15	1917	R.NZPacific, Rangitaiki. E, Winter Olympics nx. 45444 (CG)
11725	Feb6	1255	RNZ Pacific with a Nat King Cole song and a man with program ID at 1256 of "This is the All Night Program with Peter McIlwaine" then small talk to a woman with frequency changing announcements at 1258 and a single IS and off - Good (Coady-ON)
11815	Feb18	2209	R.Brasil Central. Folk mx px Brasil Sertanejo. 35443 (CGS)
11825	Feb13	1235	Reach Beyond Australia, Kununurra, scheduled for EG at this time, but weak threshold signal made it impossible to identify any language or program. On 02/14 s/on at 1128, scheduled for Dzongkha, but signal too weak for any identification of language or program. XM
11850	Feb18	0052	RHC Spanish is S+30 but as usual, JBM, suptorted. Parasitic carriers with no modulation detected but achieving S8 on 11840, S9 on 11860, which by this hour bears no jamming or Yemening. Something's always wrong at RHC (Glenn Hauser, OK, WOR)
11875	Feb13	1236	Reach Beyond Australia, Kununurra, scheduled for Hindi, but weak threshold signal made it impossible to identify the language or program XM
11895.1	Feb11	2147	R.Boa Vontade, Pt.º Alegre RS. Empty carrier. 15431 (CG)

11950	Feb18	0053	RHC Mesa Redonda splitaway undermodulated but sufficient on an S9+30 signal, // 12000 which is 2 x 6000, S9+10. Something`s always wrong at RHC (Glenn Hauser, OK, WOR)
13740	Feb18	0056	surprise, RHC in English at S9+30, // 5040, the only scheduled frequency at 00-01; 13740 with wrong program feed instead of Spanish? Something`s always wrong at RHC (Glenn Hauser, OK, WOR)
15140	Feb14	2228	RHC still on here, S9+5 in Spanish, instead of scheduled 2130* after French // much weaker 15370. Checking all bands next few minutes, no other RHC frequencies active on 15, 13, 11, 9, 7, 6 MHz; except 11880 English, S8-S4 and suported. At 2240 a Cuban seeks pen-pals, with his postal address, then ``amigos de la onda corta, Nuestra América, revista informativa``. Something`s always wrong at RHC (Glenn Hauser, OK, WOR)
15190.1	Feb18	2207	R.Inconfidência, Belo Horizonte MG. Natl. nx magazine A Voz do Brasil. 25432 (CGS)
15190.10	Feb8	2323	JBA S1-S5 of talk, music? Even so it seems undermodulated. I`m confident it`s R. Inconfidência, Belo Horizonte on its signature off-frequency. That`s a strange name for a radio station if you go by its translations in my Langenscheidt dixonary: ``disloyalty, infidelity, unfaithfulness`` --- perhaps a quite different contextual meaning or historical connotation in General Mines? (Glenn Hauser, OK, WOR)
15215	Feb14	2226	vocal SE Asian music, S5/S2, best if not only signal from west on mostly vacant band; it`s KSDA amid Vietnamese hour, beamed even further west from Agat. One can only wonder how 7DA meshes or conflicts with Vietnamese culture, as well as its countless other targets (Glenn Hauser, OK, WOR)
15389.87	Feb20	0700	Kuwait today has been noted on 15389.87 for it's English program on 07z with nice pop songs tnen with Quran program for those with Allah in their hearts . Mentioned 11970 963 and FM. Synch is better and faster than ECSS tuning. On the SDR in Thessaloniki on 5390.14v with unstable carrier with 15-20 Hz deviation. There is also a buzz audible in both sidebands. (Liangas)
15475.98	Feb9	1558	RCUSB, Wed Feb 9 not tuned in until 1558, feared too late, but LRA36 still on air with music, VP S3 into Campo, Brasil SDR, no better at Brasília #2. Still going at 1601, but 1602 QRMed by unID 2-way on 15475.00 USB exactly. Maybe Spanish but so colloquial I can`t be sure. Then nothing more from LRA36. I wonder if the 2-wayers and LRA36 are aware of each other. Occasional 2-way contacts next few minutes (Glenn Hauser, OK, WOR)
15580	Feb6	1919	VOA with various genres of pop vocals and IDs like "The hits on VOA 1" – Very Good (Coady-ON)
15770	Feb6	2000	Memphis Weirdos (via WRMI Okeechobe, FL) with Bill Webb, Jr.'s eclectic mix of various pop, indie, rock, punk, and Memphis blues vocals – Very Good (Coady-ON)
15770	Feb6	2100	Radio Prague International(via WRMI Okeechobe, FL) with Daniela Lazarováhosting "The Sunday Music Show" - Very Good (Coady-ON)

Pirate stations

3940	Feb5	2310	R.Free Waves Bay - pir. Ru, pops, tks. 35342 (CG)
4860	Feb10	1930	Mystery R 21 - pir. Pops. 35443 (CG)
4870	Feb9	2227	Mystery R 21 - pir. Pops, e-mail addr. anns. in E. 35443 (CG)
5015	Feb16	2254	R.Deltracks (p) - pir. Pops. 35342 (CG)
5140	Feb16	1917	Charleston R Int'l. - pir. Oldies. 35342 (CG)
5200	Feb10	1933	R.Sovereign - pir. Pops. ID via DX press. 25331 (CG)
5780	Feb17	1905	R.Harmony - pir. Oldies. Avoidable adj. CW QRM on 5780.320 felt only at times. (CG)
5900	Feb13	1643	R. Casa(Free), Brasil, Amparo; pop music selections. Good, //7455kHz (LOB). R.Black Bandit - pir. E, pops, c&w, thanking for rec. rpts, s/off ann., Dutch mx. Joke ID as R.Johnny Tobacco. 35333 (CG)
6273	Feb12	1837	
6280	Feb14	1904	R.Cuckoo - pir. E, old pop albums & tks thereon. 35443 (CG)
6320	Feb13	1535	R.Joey - pir. Mx. Country & stn ID via DX press. 15331 (CG)
6325	Feb13	1843	R.Clash - pir. E, pops, tks. e-mail addr. anns. for QSLs. Deteriorating. 35443 (CG)
6950	Feb12	1848	Zenith Classic Rock (IRL stn) via UnID - pir. Pops. Strgr. at 1920. 35443 (CG)
7610	Feb14	0057	R. RCW, Chile, San Francisco; covering football soccer match Universidad Catolica x Universidad Espanhola. Fair (LOB). R. Araucária (Free), Brasil (from somewhere of Paraná); 60`s brazilian pop/rock music selections. (LOB)
9290	Feb12	1259	
12255	Feb13	1507	Reflections Europe - pir. E, rlg.s.propag. Audio problems. 35443 (CG)

Contributors to the log:

wb, Wolfgang Büschel, df5sx, wwdxc BC-DX TopNews, DXLD, DXPlorer, A-DX Glenn Hauser, Enid, OK, USA (also from WOR/DXLD) Robert Wilkner, Pompano Beach, South Florida Zacharias Liangas, Thessaloniki, Greece Bruce Churchill via WOR XM - Cedar Key - Florida	CG/CGS, Carlos Gonçalves, Lissabon, Portugal Manuel Méndez, Lugo, Spain Ron Howard, Asilomar State Beach, CA, USA, WOR/DXLD (LOB) Lúcio Bobrowiec, Embu SP Brasil Coady-ON: Mark Coady, Selwyn, Ontario
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Don't forget to take a look at Rudolf Grimm's blog here: <https://dxways-br.blogspot.com/>

Station news

Colombia. We have got some information from Rafael Rodriguez regarding the UNID station on 6017 noted by Méndez in SWB issue 1995 and it seems it is a pirate station.

Here is the information from Rafael:



Rafael Rodriguez

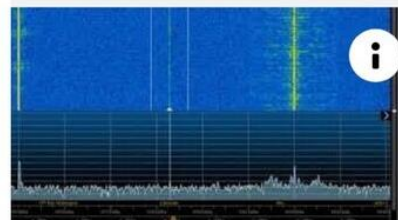
Es la señal de la pirata colombiana Org. Radial El Prado la frecuencia es 6017 kHz esta saliendo con mejor señal de aprox 2230 a 0100 utc

Ver tradução

Blog not found

xdesdecolombia.blogspot.com

<http://dxdesdecolombia.blogspot.com/2021/04/60164-khz-organizacion-radial-el-prado.html>



6016.4 KHz Organización Radial El Prado - estacion pirata colombiana

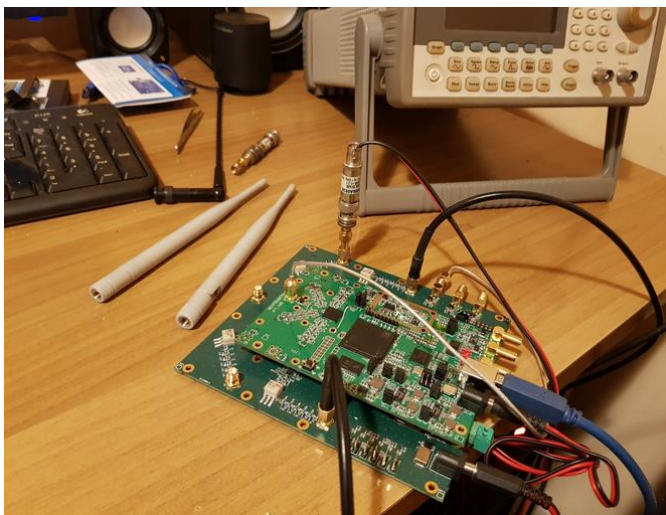
DX DIEXISMO: ONDAS CORTAS, MEDIAS Y LARGAS

xdesdecolombia.blogspot.com



Other radio news

New receiver from Nico Palermo & Elad Srl and Microtelecom Srl



The hardware in the picture is the new receiver I'm working on.

It's a *four* channel, 250 MS/S acquisition board, developed jointly by Elad and Microtelecom Srl, that can be used in the HF's (from the VLF's and up to 80 MHz) and also as an IF sampling board for VHF/UHF and SHF applications. One of the most amazing features of this kind of receiver is its ability to process multiple antenna sensors and produce results which are simply unbelievable and tremendously superior to those that can be achieved using common, single channel receivers, my Microtelecom Perseus included.

Here is a simple example of what can be achieved with this new platform.

In the example one receiver input is connected to a dipole on the garden. A second receiver input is connected to an indoor wire and serves as a sensor of the interference

generated by all the digital equipment usually present in a modern radio shack.

The receiver has been tuned to the 80 meters band, the signal has been sampled synchronously from both of the channels and then some interesting digital signal processing has been performed in the attempt to reduce the local interference created by all of the same digital equipment used to receive the signals we were interested into.

This wav file is the output obtained processing ONLY the signal coming from the external dipole antenna:

<http://iv3nvw.it/xoriginal.wav>

The only audible signal is a CW TEST call immersed in a noise with resembles that created by a switching DC power supply or by some other digital interference source.

This is the signal that would be received by a single channel receiver like Persus and there's not much to do to improve its quality (a Noise Blanker would be of very little help in this case).

This instead is the audio output obtained processing BOTH the input signals, the signal coming from the outdoor antenna AND the signal coming from the indoor interference sensor (a simple two meter wire on my shack floor).

<http://iv3nvw.it/xcleaned.wav>

As you can appreciate with your ears, all of the interference received by the external antenna has been eliminated. Very weak signals which were prior immersed in the interference are now clearly copied and no trace of local interference is audible anymore.

The noise reduction obtained in this case is of the order of 24 dB, a very huge improvement (24 dB are four S-Meter points) considered that the residual noise which can be still heard is very likely the true atmospheric noise that the external antenna would have captured either way.

Note that the example is NOT a simulation. It's real data processed from real sensors and from the real receiver shown in the picture.

Further news as soon as all of the stuff I'm working to will be completed.

(73s, IV3NWX / Nico Palermo)

If someone would like to see the results that can be obtained from the multiple sensor receiver that I'm working to and listen with his own ears what can be achieved in practice, I've prepared some very first wav file that can be played with the Perseus software.

The recordings have been made yesterday evening on the 80 meters band and span about 200 kHz around the 3.550 MHz. The first file I've produced is the signal received by a single antenna, a short dipole placed in my garden, and contains a lot of very high level interference that can't be suppressed even with the rather good wideband noise blanker of the Perseus software.

This single sensor recording is available here: <http://iv3nvw.it/dff10original.wav> The file needs of course to be played with the Perseus software. (which is freely available on the Microtelecom web site).

The second file contains the results obtained when the second sensor, a quite short wire in my radio shack, is used to sense the local interference and the two signals coming from the external antenna and the indoor noise sensor are digitally processed in order to remove as much as interference as possible from the signal received by the external antenna.

This file is available here: <http://iv3nvw.it/dff10cleaned.wav> Of course it needs to be played again with the Perseus software.

The files are rather short, few seconds of recording, yet they are sufficient to make a precise estimation of the noise suppression which is of the order of 24 dB or even more. Tune to 3.608 MHz/LSB using the single sensor file.

No signal can be heard unless the wideband noise blanker of the Perseus software is activated and driven to its maximum level, something that you can't really do if you have many strong signals, but in this case it helps a little bit.

Now open the second file, DON'T activate any noise blanker, and tune again to 3.608 MHz/LSB.

Do you hear anything ? 😊

One of the wonderful features of the noise cancellation I'm working to is that it works without any prior knowledge of where the signals are, if any. It makes some digital processing on the two sensors data without any assumption on what is being received and attempts to produce automatically the best result.

It's really a pleasure to see how many signals received by the external antenna were under the noise level floor prior to the interference cancellation and could not even be seen.

Note also that the noise suppression is almost perfect on a 200 kHz bandwidth and that the final noise floor is almost perfectly flat almost up to the edges of the recorded bandwidth.

The residual noise is likely just the atmospheric noise captured by the external dipole and can't be further reduced with just two sensors.

Uhm... But I'm working to a FOUR channel receiver, not just two!



(73s, IV3NWX / Nico, Elad Srl and Microtelecom Srl)

(Information from Christoph Rutzer at A-DX)

When was the first radio in the car.

The debate about who was the first to invent radio communication continues to this day, and supporters of Popov and Marconi sometimes find more and more sophisticated arguments. At the same time, the identity of the creator of car radio, although well-known, is not very popular. We are talking about **Alfred Grebe**, a pioneer in the field of radio broadcasting and the man who was able to bring the idea to life. The problem was that it was necessary to create a mobile unit with the function of receiving and transmitting a radio signal. Some inventors are rumored to have only partially succeeded in making radio listening possible in dedicated parking lots.

In 1919, Alfred Greb invented a not very spectacular, but quite effective installation by attaching several wires to the lower support of his car. They connected the receiver, antenna, speaker, control panel and four batteries. The design looked bulky and was generally damp, but the concept was finally brought to life. Then the race for quality began, a huge number of enterprises fought for supremacy in the newly created market. First, real receivers, vaguely reminiscent of modern counterparts, appeared in the UK, they equipped the Austin model. Further, headphone receivers, radiotelephones were released, and with them the door to the global information age was slightly opened. It is also worth noting that Alfred Grebe's first radio models were assembled at the factory of Marconi, one of the two men who invented radio communication as such. In the 1960s, cars equipped with radios finally entered mass production.
(car.ru via WOR)

Cool and rare. Favorite then and now.

Video - 11:09, Russian language.

https://vk.com/radioreceiver?z=video-163779953_456242543%2Fbefcb27010833c9510%2Fpl_wall_-163779953
TANDBERG is a brand that has stood the test of time. My friends! I am Kristina Belenkaya - the curator of the collection and the director of the private museum of retro equipment House of Vintage Music. On my channel, I talk about various musical devices and records from our collection. You will see and hear how gramophones, gramophones, tape recorders, radios and jukeboxes from different countries and eras play. I also invite you to enjoy live concerts of talented artists working in retro style, taking place in the interiors of our museum. More information: www.music-vintage.ru <https://www.facebook.com/vintagemusic.info> <https://www.instagram.com/domvintazhnoimuziki/> #vintagemusic house (<https://vk.com/radioreceiver>)
(RUS-DX#1172)

Radio in the digital age: audience, impact of the pandemic, competition with streaming.

Despite the development of streaming services, radio is still popular among Russians, but risks losing its audience due to the abundance of advertising and programs that are uninteresting to listeners. This is evidenced by the data of a study by the NAFI Analytical Center. Details in Russian - https://onair.ru/main/enews/view_msg/NMID_82317/ (OnAir.ru) + (RUS-DX#1173)

[nordx] Largest radio installation record ever...

..has been set in Vilnius to mark the Baltic Chain rally of 1989!

<https://welovelithuania.com/en/largest-radio-installation-record-has-been-set-in-vilnius-to-mark-the-baltic-chain-rally-of-1989/>

Vilnius 2019.

A giant construction made up more than 2,000 old radios will sound in unison in Vilnius on the evening of 23 August. It has been set as the largest radio installation record by Lithuanian record registration agency "Factum".

The unique performance named "One Wave" is a part of the commemorative events dedicated to the 30th Anniversary of the Baltic Chain – the landmark rally in the Baltic states' movement towards independence. On that day in 1989 two million people from Lithuania, Latvia and Estonia formed a 650-kilometre human chain from Vilnius to Tallinn. The idea of the radio installation was elaborated jointly by the Lithuanian national broadcaster, LRT, and two young Lithuanian artists – Viačeslavas Mickevičius and Ieva Makauskaitė. In Mickevičius' words, he always wondered how people could organize such massive events without any smart technologies.

"It appeared that the main role was played by the radio. Special radio broadcasts helped to coordinate the rally. This is how with this installation we wanted to pay tribute to the radio and to express the vibe of unity among our people" said Mickevičius, who was five in 1989.

artists reached out to people through the Lithuanian National Radio and TV asking to donate old radio sets and to bring them to local post offices and LRT headquarters.

Many people responded and by the end of the day they brought almost four times more radios than had been expected. The installation grew to 19 meters wide and 16 meters high construction – almost a size of a typical 5-storey house. A team of high-altitude workers was employed to put up the giant construction and to attach all gadgets.

All connected and "attuned to same wave" the radios will play played a legendary trilingual song "The Baltics are Waking Up" composed by Boris Reznik, the author of Lithuanian text – Stasys Povilaitis. In 1989 it became an anthem of the Baltic Chain and one of the most popular songs of the Singing Revolution in the Baltics.

It is planned that after the performance in the Cathedral Square in Vilnius, the installation will be moved and permanently displayed in the Park of Europe open air museum near the capital.

On 23 August, all three Baltic States mark the 30th Anniversary of the 1989 peaceful demonstration, organized to draw the world's attention to the Molotov-Ribbentrop Pact, signed on 23 August 1939. During the rally 2 million people formed a human chain stretching from Vilnius to Tallinn as a symbol of their solidarity and protest.

The Baltic Chain became an example to other countries in the Central and Eastern Europe striving for independence. Lately the Baltic Chain has inspired the protesters in Hong Kong calling for a pro-democracy action in a form of human chain across the city protesting against authoritarian rule. The organizers called it "The Hong Kong Way" and it will be held on the 30th anniversary of the Baltic Chain.

Great! It reminds me one of Cildo Mireles' famous installation, "Babel". Only much bigger.

Picture and information here: <https://www.tate.org.uk/art/artworks/meireles-babel-t14041>

(73, Andrea Lawendel via nordx)

[WOR] IRCA Reprints update

The International Radio Club's Reprints collection of 900+ articles about antennas, radio propagation, receivers, accessories, plus items of general interest to MW DXers, continues to grow. We have published an update to the index, at https://www.ircaonline.org/editor_upload/File/reprints/irca-reprint-index.pdf so that everyone can get access to these latest additions.

We're also pleased to start offering reprints that did not initially appear in IRCA's DX Monitor, but are not easily found elsewhere. For example, we have obtained permission from the family of prolific author, Dallas Lankford, to organize and republish his out of print articles.

(if you've used the index before, you may need to refresh your browser page to see the latest update, dated December 2021)

(Nick Hall-Patch, Victoria, BC, Canada via WOR)

Giant antenna near Moscow. Space Communications Center Bear Lakes.

In Russian. Video – 13:22

https://vk.com/radioreceiver?z=video-163779953_456242579%2Fd23b2cded639ea2805%2Fpl_wall_-163779953

Giant Antenna Near Moscow. Space Communications Center Bear Lakes. Near the village of Medvezhye Ozera, on the 26th kilometer of the Shchelkovskoye Highway, there is a space communications center called "Medvezhye Ozera". At the center's test site, they are engaged in work to ensure satellite communications and television broadcasting on the territory of our country and beyond. One of the four grandiose radio telescopes is located within the limits of the Bear Lakes center, both in terms of the size of the antenna itself, which receives data from the satellite, and in terms of signal reception power. The antenna mirror impresses with its size, it is 60 meters in diameter. This building was built in 1983, but after the restructuring, like many strategic facilities, it was abandoned. Antenna TNA-1500 of the radio telescope RT-64 At present, getting to the territory of the space communications center "Bear Lakes" will not be difficult. However, the object is guarded, but there is no ban on visiting the territory.

(<https://vk.com/radioreceiver>)

(RUS-DX#1173)

ERT commemorates World Radio Day with "blackout" in shortwaves

This article has been sent to me via my best man an ex-DXer of the 90s

Today is "World Radio Day", and the government has decided to commemorate it by suspending the NRA's international shortwave programme. The transmission of the shortwave signal, by decision of the ERT management, will continue until 31 March 2022.

The reason for the decision, which was signed by ERT's CEO George Gabritsos, is that shortwave radio is technologically obsolete. ERT's management, in order to throw black to the public radio's sw, invokes the evolution of technology and similar decisions of other European broadcasters, while as a counterbalance, it proposes "the acceleration of the dissemination through the Internet, in the coming months, of the Voice of Greece and ERT's main news bulletin".

Also, ERT's management has decided to proceed with the dismantling of the antennas in the Medium Wave Transmission Centres (Megara, Rhodes, Chania, Komotini, Malgara, etc.), while at the same time, as an "alternative proposal", apparently after the necessary consultations with the Maximou building, ERT invites the Ministries of Foreign Affairs and Defence to declare whether they wish to take over the use of shortwaves. "The relevant ERT departments are ordered to immediately inform the Ministries of Foreign Affairs and Defence of ERT's intention, so that they can decide whether they wish to continue operating the Rockets, as well as to acquire ownership and operation of the Rockets on their own responsibility," the decision states, also instructing that the procedures for the guarding of the Avlida Broadcasting Centre be initiated.

Translated with www.DeepL.com/Translator (free version)

PNO: There is no internet in the oceans

So this useful ability of short waves to carry radio transmissions over long distances on the planet makes them a useful communication tool, and this is what those who oppose the interruption of ERT's shortwave transmission are mainly focused on. The first to react to the choice of the ERT administration and the government were, predictably, the Greek seafarers, who through the Panhellenic Seamen's Federation (PNO), called on all responsible to reconsider the whole issue to continue normal and uninterrupted operation in Vrahea, stressing that the argument that other countries do not broadcast in Vrahea, is untenable because most countries do not have seagoing ships. "The excuse that the majority of the public media in Europe have stopped broadcasting on Braheá and that in the coming months ERT will speed up the dissemination of the above programmes on the internet is not convincing since the majority of European countries do not have the manpower and the number of fleet that Greece has and, above all, the vastness of the oceans is not covered on the internet which, moreover, is costly", PNO notes. It also notes that with this decision, the broadcasting of the radio programme 'The Voice of Greece' and the ERT Central News bulletin in Vrahea, which was the only broadcast that connected Greek seafarers everywhere with their homeland for their information and entertainment, ceases.

Piraeus Labour Centre: devaluation of workers

The Labour Centre of Piraeus also expresses its opposition, sharing the reactions of the seafarers, stressing that "the "executive state" of Mitsotakis and the ERT Administration are throwing a new black mark on public radio frequencies".

As the Piraeus EPC stresses, "they decided to close the "Voice of Greece" since it is known that especially from the short waves ERT serves its constitutional obligation to broadcast Greek content all over the world. In this way, the millions of Greeks living abroad, our seafarers, the thousands of workers employed abroad, students, cease to have access to information, culture and entertainment, the umbilical cord with our country is interrupted".

POSPERT: Second "black" on radio frequencies from the Southwest Unacceptable, characterizes the decision of the "appointed by the government" administration of ERT, and the Panhellenic Federation of Staff Associations of Greek Radio and Television Employees (P.O.S.P.E.R.T.), stressing that this is a move to downgrade public broadcasting and an act of "authoritarianism and revanchism."

"The Shortwave Broadcasting Centre, which is the only one in Greece, plays a crucial role in serving ERT's constitutional purpose and the transmission of its radio programme throughout the world, which POSPERT and its employees kept open during the struggle against the 'black coup', ensuring both the transmission of the programme and the equipment of ERT, which is the public property of the Greek people.

Great impression and concern for the security issues of the country, is caused by the briefing of the Administration in the form of a question (!) to the Ministries of Defence and Foreign Affairs to decide for themselves whether they wish to continue the operation of the Vrahei on their own responsibility, at a time when a number of neighbouring countries of common geopolitical interest are modernizing and strengthening similar structures", stresses POSPERT and states that the indifference of ERT's administration has even allowed theft in the facilities of the Vrahei Broadcasting Centre.

"Despite the constant interventions of POSPERT, the ERT management has purposefully led the Broadcasting Centre to decline and under-performance, understaffed and understaffed, leaving it in the hands of various sophisticated private individuals, without even caring about the safety of the staff and the company's high-value equipment. Besides, it is characteristic that until recently the management had not even taken care of the security of the site, with the result that there were serious complaints about thefts in the site by third parties and only after the actions of POSPERT a guard was placed in the site.

In a series of documents we had called on the Management to act immediately, taking all the necessary protective measures and to take the appropriate legal actions, so as to end this unacceptable situation at the Avlida Broadcasting Centre and to safeguard ERT's employees and property, stressing the need for the exploitation of the Avlida Broadcasting Centre", POSPERT stresses and notes that the suspension of the operation of the Broadcasting Centre is a gagging practice "known from the 'old days', such as the one used in June 2013, when ERT's broadcasting frequencies were blacked out".

"Radio and trust" However, ERT today did not forget World Radio Day, which it describes as the world's most trusted medium of information and entertainment". It dedicates a series of radio programmes entitled "Radio and Trust" to this day. Only in the case of the short ones, ERT's trust turns out to be ... short.

Read more at: <https://parallaximag.gr/thessaloniki/ert-tima-tin-pagkosmia-imer-a-radiofonou-me-mavro-sta-vrahea>

<https://zachs-radiopage.blogspot.com/2021/01/sdr-pc-advantages-over-standard.html>

(Zacharias Liangas)

Zacharias Liangas - Interesting radio related pages on his site

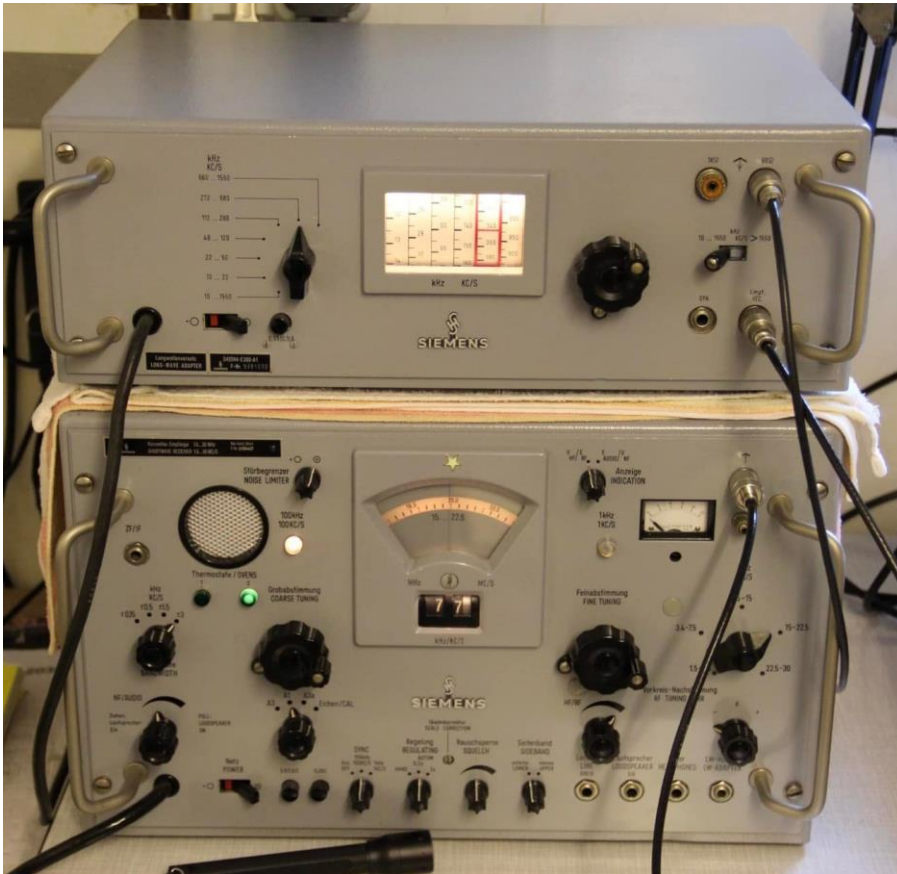
Main page is <https://zachs-radiopage.blogspot.com> which is a web page involved to everything in radio except for logs.

Take a look at the entries for 2022 and don't forget to look at the entries for 2021.

Those articles may be of special interest:

- Comparison between PL330 and PL380 portable receivers
<https://zachs-radiopage.blogspot.com/2021/11/tailed-comparison-between-l330-and-pl380.html>
- Cross testing between PL330 and PL380
<https://zachs-radiopage.blogspot.com/2021/11/new-tescun-pl330-and-testign-with-pl380.html>

Shortwave Receiver E-645 / Siemens E311



The **Siemens E-311** appeared in early 1960's and was advertised as an alternative to communications receivers from Collins or Rohde & Schwarz. It has not only been in use in Germany but has also been used by the Swiss Army, where it carried the designation E-645.

Triple conversion, 1. ZF 1,3 - 1,4 MHz, 2. ZF 370 kHz, 3. ZF 30 kHz
Analog dial, resolution max. 100 Hz
 AM, CW, LSB, USB, 1,5 MHz - 30,1 MHz

Selectivity -6 dB: 6 / 3 / 1 / 0.3 kHz

The longwave attachment **E350** is used as an additional device for the E311 shortwave receiver. Together with this, it enables the reception of long and medium wave between 10 kHz and 1500 kHz. A shortwave receiving station with such an additional device can therefore cover the entire range from 10 kHz to 30 MHz in switchable sub-ranges without gaps. The frequency of the LW attachment is converted to 20 MHz. The conversion oscillator can be synchronized by the downstream HF receiver.

<http://www.armyradio.ch/radio-e/e-645-e.htm>

Picture of E-311 & E350 is copied from Dirk Flentje who also has posted an interesting video on his FB site, here is the link: <https://www.facebook.com/photo/?fbid=5609513629075655&set=gm.10160347098186967> (via A-DX Fernempfang)

Marine Receiver – Elektromekano M97

General coverage communications receiver, double conversion superheterodyne (single conversion below 3,7 MHz).

Range : 14 kHz to 26 MHz in 10 bands, 14-21.5 kHz; 96-230 kHz; 240-530 kHz; 600-1500 kHz; 1.5-3.8 MHz; 3.7-7.4 MHz; 7-11 MHz; 11-15 MHz; 15-19 MHz and 19-26 MHz.

Modes : AM/CW/MCW/SSB

Selectivity : 8.2/4/2/0.6 kHz -3 dB

IF : 1300-1200, 560 kHz

AGC : Off/Short/Long

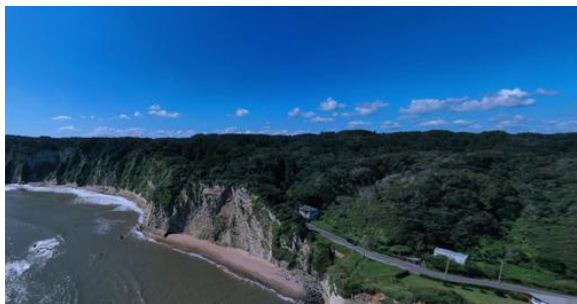
18 Tubes used : 2 EF85; 7 EBF80; 4 ECH81; 1 ECF 80; 1 EAA91; 1 EL95 and 2 OB2.



See <https://traffclist.altervista.org/marine-receiver-elektromekano-m97>

(This receiver was used by our late member Göte Johansson.)

MW DXpedition in the Boso peninsula in Japan on Jan.9-10 (written in Eng.)



Although a DX report mainly about Mediumwave but lots of photos and interesting information.

Full story here:

<https://eureka-fumi.blogspot.com/2022/02/1dxdpediton.html>

He's radio ga ga! Retired electrical engineer, 85, has £15,000 collection of 200 antique radios that he has been building up for 50 years - including one of the oldest sets in the UK



A grandfather-of-five has revealed his impressive antique radio and test instrument collection. Richard Allan, a retired electrical engineer, has spent the last fifty years collecting antique transistor, valve and crystal sets and has now shown off his impressive collection of more than 200 pieces. The 85-year-old from Norfolk, first fell in love with radios because of his father, Alexander William, who built his own transmitter and spoke to people all over the world through the airwaves. In fact, Richard's first - and favourite radio within his collection - is the one his father,

a ham or amateur radio lover, played non-stop during World War II after purchasing in 1938. Richard's oldest radio among his 200-strong set is a 3-valve Beltona ham radio at 96-years-old.

Full story at <https://www.dailymail.co.uk/news/article-10522803/Retired-electrical-engineer-85-15-000-collection-200-antique-radios.html?fbclid=IwAR2VsIL55xTrEukL0dePxGEgaQVfaY8EgosbzE7awhnGLXZTJ7JWf2a18kQ> (Mike Terry via WOR)

Daltro D'Arisbo Radio Museum, Porto Alegre – Brazil

In search of radio stories, this trip takes me more than 2,000 kilometers from home to the south of Brazil, more precisely to the city of Porto Alegre, capital of the state of Rio Grande do Sul.



Full story here: <https://www.radioheritage.com/daltro-darisbo-radio-museum-porto-alegre-brazil/?fbclid=IwAR1PVa1bNqnWUWDXIToHDhjUMApIFdIjgad2YAyG1q12Oz3nM3IdpMbwoTA>

Report by Martin Butera and photos by his wife Ligia Katze.
(from www.radioheritage.com via A-DX Fernempfang)

DX nostalgia by RFK

Hello everybody and welcome to another column of DX nostalgia. At the moment the Olympic Games are running – is there anybody out there who still follows the games via shortwave radio or have you gone over to TV and Internet exclusively? Personally I feel nothing beats radio when it comes to reports from various sports events. Many of us who have been listening to Brazilian stations over the years know the excitement and may have been wondering what lung capacity the reporters of a football game have as they shout GOOOOOOOLLLLL for impossibly long periods. There are still a few Brazilian stations around on SW although real QSLs in the letterbox may not be so common. Now behold this verification letter from Brazilian station Radio Cultura de Araquara, received by Olle Alm OA in 1966.

ZVR 80 4915 Q PRD 4 1370 Q PRD 4 FM 97.3 Meg

MAIS DE 30 ANOS DE LIDERANÇA NO RÁDIO DA ARARAQUARENSE

TRES PREFIXOS FAMOSOS Araraquara, 20 de Julho de 1966

ESTÚDIOS

E

ESCRITÓRIO:

AVENIDA

ESPAÑA

284

TELEFONES:

2828

3828

3838

TRANSMISSORES:

FAZENDA

"SALTO

GRANDE"

TELEFONE:

3549

Ilmo. Sr.
OLLE AIM
Anneholmsgatan 4
GOTEBORG S - Suécia

Temos a grata satisfação de acusar o recebimento de sua atenciosa carta de 1º de Junho, comunicando-nos ter ouvido esta Emissora no dia 31 de Maio e tecendo considerações a respeito de nossas transmissões.

Em resposta, levamos ao seu conhecimento que, por meio dos elementos que nos foram fornecidos por V.S. constatamos ser exata a sua informação, confirmando-a inteiramente.

Agradecidos pelo interesse demonstrado, aqui ficamos ao s/ inteiro dispor, subscrevendo-nos muito

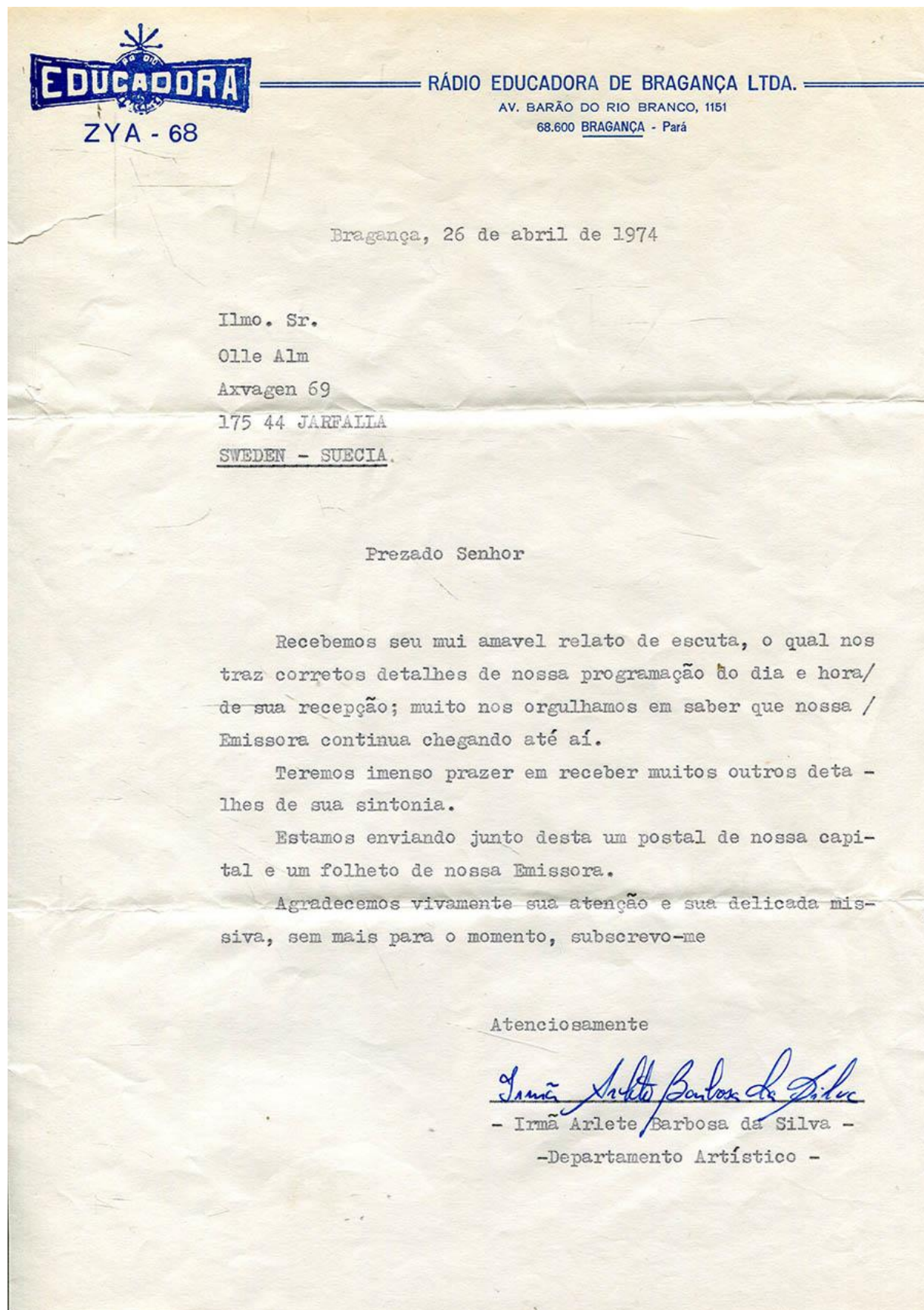
atenciosamente
Radio Cultura Araraquara Ltda
Santhony Orreum da Silva
GERENTE

Gmb.

A R A R A Q U A R A
ESTADO DE SÃO PAULO

Radio Cultura

Below another Brazilian QSL from the collection of Olle Alm: Radio Educadora de Bragança. A quite common Brazilian in the 60 metre band.



Finally a third Brazilian QSL letter from OA:s collection. Olle received this one 60 years ago. The station, mostly known as Radio MEC, used to be fairly common in the 25 metre band for decades. Any contributions to this column are highly welcome: scans of old QSLs, pennants, pamphlets, whatever that's radio related. Just mail me at info@rock.x.se. Stay safe & GOOD DX!

