

SHORTWAVE BULLETIN

Issue no. 1892, Jan 1, 2018.

Deadline e-mail next issue: 0800 UTC, Jan 14, 2018.

Hope you all get a Happy New Year and thank you for all Christmas and New Year greetings..

It seems there has been a tremendous activity during Christmas holidays. It is a long time ago the log was filled with so many stations.

First I set deadline for this issue to Jan 7 but with so many contributions to the log it seems I have to send out this issue earlier.

I want to thank those who contribute with other interesting things than just the log. We get scanned verifications, scanned old QSL's and stickers. Not to forget all items from manufacturers which help us a lot when listening to the remaining stations on shortwave. Everybody - thanks a lot.

Also very interesting to see another station **4KZ** from Australia entering 5055 kHz in the 60 m band. Reception already noted in Germany

Keep on

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SWB-info

SWB on HCDX:

<http://www.hard-core-dx.com/swb>

SWB member information:

<http://www.hard-core-dx.com/swb/member.htm>

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, kommentarer, mm.

Giampiero Bernardini, Milan, Italy.

Ciao Thomas, here some tips made around Christmas with my new Airspy HF+. Maybe you can find some for SWB.

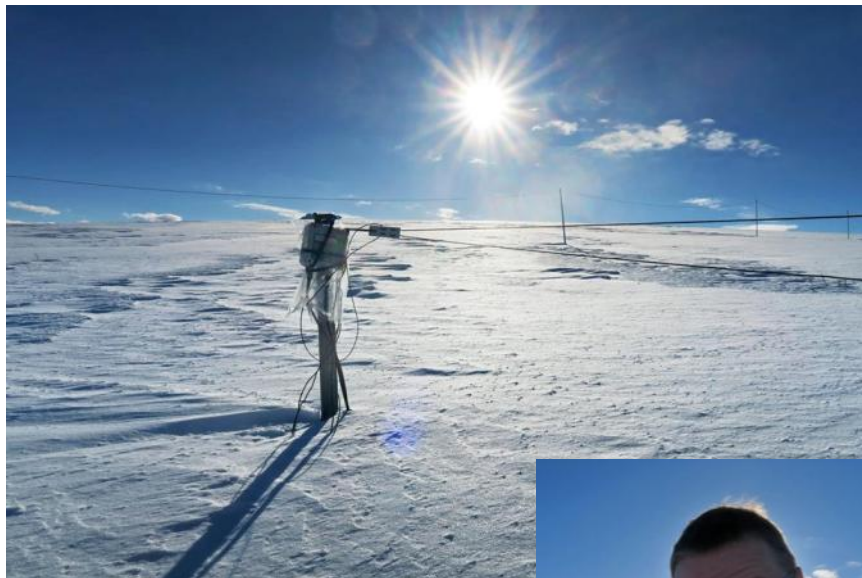
Anyway have an Happy 2018 and a lot of fun with your radio.

Christer Brunström: Shortwaveradio.de 6160 e-QSL too large to be printed correctly. **Bangladesh Betar 13580** QSL-card, letter and schedule.

Dave Valko, Dunlo, PA, USA. A lot of loggings over the Christmas holiday!! Perseus SDR, Wellbrook ALA1530S loop at home and BOGs of 315 feet (except for 23 Dec. when 630 feet used) on micro-DXpeditions. 73 and Happy New Year to all in 2018!!

Francesco Clemente. Best wishes and Happy New Year too! Saludos.

Christoph Ratzer. Ein Blick heute nachmittag auf meine Antennen: Im Vordergrund beginnt die 250 mt. Beverage für USA/Afrika, im Hintergrund die 150 Meter lange Asien Beverage.



Here is a picture of Christoph when checking his antennas up in the mountains.



2850	Dec21	1205	KCBS Pyongyang 1205 dead air break between opera-like songs. Not very strong. (Valko 21 Dec. micro-DXpedition #1)
3260	Dec31	1140	NBC Madang, on Dec 31, with New Year's Eve extended two hour broadcast past their normal 1200*; at 1140 with the normal Sunday religious (Christian) songs and in Pidgin; 1207 till suddenly off at 1403* with many phone conversations and playing a few pop songs; signal slowly improving the whole time. BTW - 3325 (non-log), NBC Bougainville, on Dec 31, remains silent (Ron Howard, Asilomar State Beach, CA, USA)
3310.0	Dec16	2340	R.Mosoj Chaski, Cochabamba. Quechua, tks, Indian mx .35433 (CGS)
3310	Dec29	0053	Radio Mosoj Chaski, Cotapachi, Bolivian songs. (Méndez)
3320.0	Dec31	1801	SAUK/R.Sonder Grense, Meyerton. Afrkns, nx (p). 25331 (CG)
3325	Dec24	2158	RRI Palangkaraya Decent signal up at 2158, but blasted by South Africa and UTE. Audio too low and too much QRM to ID. (Valko 24 Dec. micro-DXpedition)
3325	Dec23	1412	JBA carrier indicating RRI Palangkaraya, as NBC Bougainville is usually off by this time, a semihour after sunrise here (Glenn Hauser, OK)
3381.2	Dec31	1600	Karel Honzig berichtete vor wenigen Minuten in der Liste des Medium Wave Circles: Like every December 31: Radio Bila Hora (CZE) on the air again! 3381.2kHz, power and exact location unknown. Heard before 1600. Karel Honzik ----- Der Sender startete soeben um 16.20 UT seine alljährliche Silvestersendung auf 3381,27 Khz. Eine schöne Tradition. To explain a little bit what is going on: it is a pre-recorded show presented by the former Czechoslovak pop singer Richard Adam who was very popular in the 50s and 60s. He died this year, he was 86. He prepared this show especially for Radio Bila Hora several years ago and it is now repeated as a reminiscence of him. Eine schöne Sache. (73 Christoph Ratzer via A-DX)
3381.26	Dec31	1510	I also heard Radio Bila Hora at 1510-1525 UT, when checking the 90 mb in Skovlunde, Denmark. Wellknown pop songs, but the signal was weak at that time with QRM from a strong whistling tone in USB. Now I tried it again at 2115-2125 UT, when they were heard stronger with Czeck entertainment with an audience with same whistling tone. (AP-DNK)
3381.27	Dec31	1640	R Bila Hora with strong signal here. Typical Czech music. (TN)
3480.0	Dec15	1814	Voice Of The People (cland.), Goyang.Kor to KRE, tks. // 3910, 3930, 6520, 6600. 34432 (CGS)
3480	Dec20	2152	V.O. the People Sounded like the same M speaking at 2152 as on 4450, but the signal was weak and QRMed by a strong OC on 3479.6. (Valko 20 Dec. micro-DXpedition)
3905.0	Dec24	2324	Crazy Wave R (t) - pir. Pop oldies, tks. T-ID via DX press. 25331 (CG)
3905.0	Dec27	2140	R. Powerliner - pir. Pops. ID via DX press. 5331 (CG)
3930.0	Dec15	2236	Voice Of The People (cland.), Goyang.Kor to KRE, tks. 33442 (CGS)
3945.0	Dec15	2238	Echo Of Unification (cland.), Pyongyang.Kor to KOR, tks, mx. 45332 (CGS)
3950.0	Dec18	1747	Xinjiang PBS, Urumqi.Mand, songs. 35432 (CGS)
3975	Dec24	2117	Shortwave R. 2117 Pop/Rock song, 2119 next song which was "Things We Do For Love" by 10CC. 2122 M DJ w/UK accent. 2127 Rod Stewart and jingle w/ID. Getting some decent peaks at 2129. 2130 short song anmnts, then "If You Leave Me Now" by Chicago to 2135. Hams staying away for the most part except for 3972.5. But 2 guys came on right on top at 2133. 2140 M w/ment of shortwave and song anmnts. Pretty clear at 2141. 2142 more song anmnts, and into "Somebody to Love" by Queen. Weird that this would come in but nothing from 3995 HCJB Weenermoor. (Valko 24 Dec. micro-DXpedition)
3975.0	Dec24	1844	Short Wave R - pir.E, pops, IDs as This is Short Wave 3975. Same on 22 & 13/12? 35342 (CG)
3975.0	Dec27	2144	Short Wave R - pir.E, tks, pops. 25331 (CG)
3990.0	Dec18	1746	Xinjiang PBS, Urumqi.Uighur, songs, tks. 35433 (CGS)
4000.0	Dec22	2312	Coast FM (Canary Is. stn) via UNID, Irish? - pir.E, pops, tks. 25331 (CG)
4010.2	Dec24	1550	Birinchi R Krasnaya Rechka Bishkek, prog local (Mauro Giroletti)
4025.0	Dec31	1751	Coast FM (Canary Is. stn) via UNID, Irish? - pir.E, pops, tks. 25331 (CG)
4030.0	Dec29	2119	R. Mustang - pir. Pops. 35343 (CG)
4055	Dec23	0450	R. Verdad. Rarely do I check on this, so surprised by the fair-good reception; audio feed of lecture given by former yoga teacher, Mike Shreveat, who converted to Christianity; video at http://goo.gl/Ch9rEc (Ron Howard, Asilomar State Beach, CA, USA)
4055	Dec29	0455	Radio Verdad, Chiquimula, religious songs and comments. Very weak. (Méndez)

4009.97	Dec24	2020	LHH Dance mx at 2020. Fairly audible at this time but surprisingly nothing on 48m. Really long Dance song, 2124 "Oh Girl" by Chi-Lites. 2130 Seagulls. 2135 canned anmnt, and into "Come Together" by The Beatles. 2143:00 jingle ID by M, then "Love You Inside and Out" by The Bee Gees. Very fady like 3975 Shortwave R. (Valko 24 Dec. micro-DXpedition)
4054.98	Dec25	0805	R. Verdad Usual vibraphone-like mx w/SP ID anmnt by M at 0805, and into rel. mx. Guess they were staying on all night for Christmas. Fair signal at best with a lot of crackly static-like noise through the entire SW spectrum. (Valko 25 Dec.)
4450	Dec20	2151	V.O. the People Barely able to hear the M tking in KR at 2151 amidst the jammer. (Valko 20 Dec. micro-DXpedition)
4750.0	Dec19	1632	Bangladesh Betar, Shavar.Beng, tks, local songs, TS for 1700, tks (but w/ extrem. low modulation). 35433 (CGS)
4750	Dec16	1455	Bangladesh Betar Dhaka, local music (Mauro Giroletti)
4750	Dec20	2259	CNR1, Hailar Canned anmnts at 2259, usual time ticks w/last higher, then "Beijing tsen" ID. Pres. nx at 2301, and some canned anmnts at 2303, //4800 which was better. Feed on this freq just a hair behind 4800. Interestingly this had a slight echo effect. (Valko 20 Dec. micro-DXpedition)
4764.03	Dec19	2323	R. Huanta 2000 2323 Pop song, 2325-2332 live studio M DJ w/long tlk, then long ad block 2332-2340 w/abt 1000 ments of Huanta. Phone #'s. One ad sounded like Quechua. Canned pgm intro/ID by M including other stns in network at 2340 and into pres. regional nx by W anncr. Fairly decent but right on the top edge of a CODAR. (Valko 19 Dec.)
4774.9	Dec17	2154	R.Congonhas, Congonhas MG.Mass. 35332 (CGS)
4774.9	Dec28	2141	Radio Congonhas, Congonhas, "A Voz do Brasil". (Méndez)
4774.91	Dec20	2239	R. Sora From 2239. Mixing a little w/Tarma. 2247:35 "Radio Congonhas" ID by W. 2248 full ID by M. Nonstop ZY Pops over the ToH 2257-2307. Haven't hrd it this strong in a long time. Only about 4 or 5 hertz separates this from Tarma. (Valko 20 Dec. micro-DXpedition)
4790	Dec21	1257	BBC Signal already on at 1257 and audio up at 1258:42 w/M anncr giving e-mail addr. Deadair, 1259:17 w/canned ID anmnt by M in EG, then another in lang. ending w/"...BBC London", then into apparent Uzkek pgm at 1300. Fairly good but horribly CODAR QRM. (Valko 21 Dec. micro-DXpedition #1)
4800.0	Dec18	-1744*	AIR Hyderabad, Telengana.Nx. QRM de CHN. 33441 (CGS)
4805	Dec28	2137	Radiodifusora do Amazonas, Manaus, "A Voz do Brasil". (Méndez)
4810.0	Dec18	-1741*	AIR Bhopal, Adhya Pradesh.Nx. QRM de ARM .33441 (CGS)
4810	Dec24	1735	Armenian Public R Noratus Gavar, prog news (Mauro Giroletti)
4840.0	Dec20	0945	WWCR, Nashville TN.E, rlg. propag. F/out -1155 55444 (CGS)
4861.6	Dec18	2249	R.Alvorada, Parintins PR.Tks. 25331 (CGS)
4870	Dec16	1510	R Sedayee Kashmir Kingsway, local (Mauro Giroletti)
4875.2	Dec28	2135	Radiodifusora Roraima, BoaVista, "A Voz do Brasil. (Méndez)
4885.0	Dec19	1927	R.Club do Pará, Belém PA.Tks on f/ball. QRM de KOR. 23431 (CGS)
4885.0	Dec19	2239	R.Dif. ^a Acreana (p), Rio Branco AC.Tks, mx. QRM de B + KOR. 33442 (CGS)
4885.0	Dec15	1718	Echo Of Hope (cland.), Nowon-gu.Kor to KRE, tks, mx. 35343 (CGS)
4885	Dec21	1255	Echo of Hope. 1255 short Gregorian chant-like vcl and W w/"VOH" ID, then another anmnt by W w/at least 3 "VOH" IDs. Still audible at 1354 w/"VOH" IDs again. Was still there at 1410 but there was a white noise jammer making it very difficult to detect audio. (Valko 21 Dec. micro-DXpedition #1)
4905.0	Dec17	2202	Nova R.Relógio, Rio de Jan.º RJ.Songs, rlg. propag. QRM de CHN. 24331 (CGS)
4905	Dec20	2244	R. Relogio (pres.) Sounded like M in PT slightly under Tibet (W anncr) at 2244. Way too weak and too much Tibet QRM. (Valko 20 Dec. micro-DXpedition)
4920	Dec28	1228	AIR Chennai 1228-1229 couple canned anmnts. 1229 W in hyper-speed mentioning upcoming EG nx. Deadair, then EG nx by soft-spoken M anncr to 1235. ID by studio W anncr, then subcont. mx. Fair. (Valko)
4930.02	Dec26	2105	VOA Studio 7, via Moepeng Hill still with extended broadcast English/Shona/Ndebele reports (AP-DNK)
4950.0	Dec19	1643	R.Kashmir, Srinagar.Songs. 25331 (CGS)
4950	Dec28	1715	AIR, Kashmir, Hindi songs, Vernacular, comments. (Méndez)
4950.0	Jan1	0124	AIR Radio Kashmir, Srinagar (presumed). On Jan 1, extremely rare situation here with Angola (4949.74) being off the air, leaving frequency clear for Kashmir; a check at 0124 had no signal; at 0134 heard weak signal with announcer; 0141-0144 nice subcontinent singing. Normally Angola is so strong as to block reception of Kashmir, so today was a rare treat! Jim Young in Southern Calif. also noted same reception at the same time (Ron Howard, Asilomar State Beach, CA, USA)
4949.7	Dec14	2000	R Nacional de Angola Mulenvos Luanda, local + ID "Radio Nacional.." (Mauro Giroletti)
4949.74	Dec23	0131	R. Nacional de Angola. Reception well above the norm; a very good day for African reception - see Zanzibar; on air phone calls; pop African songs, along with Xmas "Jingle Bells";

			countless IDs; QRN (static) less than usual; 0200 time pips and brief news (Ron Howard, Asilomar State Beach, CA, USA)
4965.0	Dec18	1735	Voice Of Hope.E, rlg. propag. Improving. 35332 (CGS)
4965	Dec29	1825	Voice of Hope Makeni ranch Lusaka, talk music talk + "Voice of Hope" (Mauro Giroletti)
4970.0	Dec19	1640	AIR Shillong, Mawgrong.Chanting. 25432 (CGS)
4970	Dec28	1731	AIR, Shillong, English news. (Méndez)
4970	Dec31	1237	AIR Shillong, with the usual "Country Roads" C&W music show at 1237; Kenny Rogers with "Daytime Friends & Nighttime Lovers," etc.; unusual propagation, as the signal went downhill rather badly by 1313. (Ron Howard, Asilomar State Beach, CA, USA)
5005	Dec28	*0519-	Radio Nacional, Bata, open with popular a religious Spanish songs, at 0534, male, id. "Radio Bata", Spanish, information and greetings to listeners, "Feliz Año Nuevo, les informamos..., llame a través del teléfono...", "Saludos a Victor Manuel..., a todos los vecinos...", "terminamos con esta convocatoria, el ayuntamiento de...", at 0549: "Son las 6 y 49 minutos, vamos a felicitar por Año Nuevo...", "Feliz Año Nuevo desde Radio Bata y Radio Malabo" "...felicita a su novia Rosalinda...", at 0556 song "Despacito", at 0600 more greetings. At 0610 signal more weak, barely audible due to daylight path. (Méndez)
5010.0	Dec15	1720	AIR Thiruvananthapuram, Muttathura.Vn, tks, chanting. Closed at 1740. 35332 (CGS)
5010.00	Dec24	1730	AIR, Thiruvananthapuram Malayalam extraordinary Christmas concert with hymns, 1745 talk and more hymns not // English news on 5040 (AP-DNK)
5010	Dec24	1600	AIR Thiruvananthapuram, prog music local (Mauro Giroletti)
5010	Dec28	1230	AIR Thiruvananthapuram EG nx by soft-spoken M 1230-1235 could just barely tell it was //4920 and 5040. (Valko)
5010.0	Dec16	1805	R.TV Madagasikara, Ambohidrano.Tks, mx. 15331 (CGS)
5010	Dec28	2120	Pirate Radio Newport (relay) 2120-2157 very good signal w/Rock mx including 2129-2139 "Stranglehold" by Ten Nugent. 2140 M anncr w/what seemed to be a full list of songs played in the show to that point, and ID, then LP by The Scorpions. (Valko)
5020	Dec29	1427	SIBC, with greatly extended broadcast; 1427-1545+; non-stop pop songs (Rolling Stones with "Honky Tonk Woman," etc.); only heard a few announcers very briefly; didn't sound like a Wantok FM relay, as there were no frequent IDs, so strongly suspect this was SIBC extended programming; weak. Headed for broadcasting 24 hours today? (Ron Howard, Asilomar State Beach, CA)
5020	Dec29	0745	Solomon Islands Broadcasting Corporation, Honiara, extremely weak audio, barely audible, fair carrier, songs detected and at 0800 comments. (Méndez)
5020	Dec31	1227	SIBC, with greatly expanded New Year's Eve broadcast; 1227 to past 1532+; some pop songs and many phone conversations; poor (Ron Howard, Asilomar State Beach, CA, USA)
5025.0	Dec18	2243	R.Quillabamba.Cast, mx, advs. QRM de CUB w/ silent carrier. 34432 (CGS)
5025.0	Dec20	0947	R.Rebelde, Bauta.Phone-ins, mx requests, nx, interviews. F/out. -1105 45433 (CGS)
5025	Dec30	0520	R Rebelde Bauta, prog music local (Mauro Giroletti)
5035	Dec28	2127	Radio Aparecida, Aparecida, "A Voz do Brasil". (Méndez)
5040.0	Dec18	-1740*	AIR Jeypore, Odisha.Nx. 35332 (CGS)
5040	Dec28	1230	AIR Jeypore Similar strength to AIR Thiru., and just barely able to tell it was //4920 w/EG nx by M 1230-1235. (Valko)
5040	Dec31	1128	AIR Jeypore, heard the AIR IS at 1128, followed by program in Hindi and subcontinent music (Ron Howard, Asilomar State Beach, CA, USA)
5040	Dec30	0510	R Habana Cuba Bauta, prog local (Mauro Giroletti)
5045.0	Dec15	1827	Ozy R, Newcastle NSW.E, pops, tks. Deteriorating. 1915 25331 (CGS)
5045	Dec21	1100	Ozy R. Hrd what was apparently the nx by W after 1100, then caught "Waltzing Matilda" w/M anncr mentioning "radio" at 1107. Couldn't copy anything else though. (Valko 21 Dec. micro-DXpedition #1)
5045	Jan1	1600	Ozy Radio a lot weaker than 4KZ on 5055. (TN)
5050	Dec20	2258	Beibu Bay R. 2258 M vcl song. 2300 time ticks and W ID in CH followed by W w/EG TC "It's Beijing time 7 AM", canned M anncr, then ID in unison by several people. 2305 ad starting w/"Jingle Bells". Fair signal for Beibu Bay on this freq here. (Valko 20 Dec. micro-DXpedition)
5050	Dec26	1509	Beibu Bay Radio. "tuned in at 1509 to hear special programming; audio feed of Queen Elizabeth with her annual Christmas address, in progress; followed by Elton John with "Can You Feel the Love Tonight"; in Chinese; Xmas song - "O Come, All Ye Faithful." Video of Queen's message at http://goo.gl/TT7j8w ." Dec 30 (Sat.), at 1512, with a repeat of the above 26th reception, already in progress (Ron Howard, Asilomar State Beach, CA, USA)
5054.996	Jan1	1600	4KZ quite good with block of ads. "You are listening to NQ Radio". At 1600 national news and ID as 4KZ. (TN)
5054.997	Dec21	1032	4KZ 1032 mx faintly, M anncr 1033. 1040 mx a little more audible. Same freq as noted yesterday for the first time. Couldn't really get anything more than just mx or tlk by M or W

throughout to 1145 t/out. Very fady. Just a tad weaker than Ozy, as it should be as it's half the strength (now). Conditions were too poor. Thanks to Rob Wagner for the first alert on this. (Valko 21 Dec. micro-DXpedition #1)

5055 Dec28 1310

Radio 4KZ. Always best in USB, due to BBR (China) QRM on 5050; pop songs The Lovin' Spoonful - "Summer In The City," Tony Orlando - "Tie a Yellow Ribbon 'round ol' Oak Tree," etc.; some commercial announcements; still with some SSB chatter in Spanish which blocks 4KZ reception.



Dec 30 - Best reception so far; 1442 alert regarding the New South Wales police investigating the disappearance of an 11 year old boy from Shalvey; taken from a backyard at Sedgeman Crescent, Shalvey, about 7:30; believed to be traveling to Queensland with his natural mother in a 2006 Hyundai Elantra with New South Wales registration AN02YL; semi-readable. Very respectable reception, especially if still 500w. My audio clip at <http://goo.gl/gaW271> (Ron Howard, Asilomar State Beach (near Monterey), CA, USA)

5060 Dec16 1505

Xinjiang PBS Urumqi, local (Mauro Giroletti)

5835 Dec24 -1657*

Radio Flying Dutchman, pirate, id, song, end bc, fair (Bernardini)

5845 31.12 1800

Radio Mi Amigo with yet another high-power transmission to Europe. Nice music. 3-4 (CB)

5910.266v Dec29 0655

Alcaraván Radio is on with S9-S5 music (Glenn Hauser, OK)

5910.3 Dec28

Alcaraván Radio, Puerto Lleras, religious comments, Latin American songs. (Méndez)

5914.98 Dec21 2315

Myanmar R. (pres.) Signal with 1 khz test tone from 2315 t/in to 2325. Weak signal mixing w/slightly stronger pres. CRI. Couldn't really confirm any audio, but the freq being slightly off, and the test tone should be a dead give-away. (Valko 21 Dec. micro-DXpedition #2)

5930 Dec24 2100

NDR (Nauen) was very strong w/signal on at 2059:50 and pgm start at 2100:00. 6155 (Yerevan) came on late w/audio up at 2101:19 and nearly as strong at 5930 but audio a bit distorted. 9590 (France), 9650 (Austria), and 9830 (France) all good, but 9765 (Nauen) weak. 9650 was of course mxing w/Guinea. A bad freq choice. (Valko 24 Dec. micro-DXpedition)

5939.73 Dec24 0016

Voz Missionaria, Camboriu, Brazil, religious, fair in ECSS (Bernardini)

5939.9 Dec15 2239

R.Voz Missionária, Camboriú SC.Pathetic preacher. 44333 (CGS)

5950.0 Dec16 1807

Voice Of The Tigré Revolution, Geja Jawe.Vn, JHoA songs. Adj. QRM. 34432 (CGS)

5952.4 Dec24 0036

Radio Pio XII, Siglo Viente, Bolivia, talks, commercials, weak (Bernardini)

5952.42 Jan1 0335

Radio Pio Doce. With their annual extended special New Year's Eve broadcast; 0335 mostly chatting on phone; **count down to the New Year** (0400), followed by National Anthem (instrumental); speeches; many IDs - "Viva Radio Pio Doce." My six minute audio at <http://goo.gl/Pkrytj> (Ron Howard, Asilomar State Beach, CA, USA)

5952.45 Dec29 0050

Radio Pio XII, Siglo XX, comments. (Méndez)

5960 Dec24 0020

The Mighty KBC, Nauen, Germany, nice songs, good (Bernardini)

5980.0 Dec19 2235

R.Chaski, Cuzco.Cast, rlg. propag. Adj. QRM. 34432 (CGS)

5985 Dec30 1539

Myanmar Radio, with the usual Saturday program about ASEAN, during their segment in English (Ron Howard, Asilomar State Beach, CA, USA)

5995 Dec21 1330

Echo of Hope Plainly audible over the jamming at 1330 w/discussion in KR between M and W. Easy song at 1356-1358. W in KR at 1400-1407, best at 1407. (Valko 21 Dec. micro-DXpedition #1)

5995 Dec29 *0659-

Radio Mali, Bamako, tuning music French, id. "...Radiodifusion Television du Mali emettan de Bamako", commets, Arabic songs. (Méndez)

6000 Dec25 1859

Adygeyan R. (pres.) Had the signal here from but not strong enough for audio. Plus there was a band of lcl noise between 5999-6010. Went off at 1859:35. Had it fairly well on a web rx in the Ukraine too. (Valko 25 Dec.)

6000 Dec25 2142

CNR 2 China Business Radio, Xian, songs, weak //6155 fair (Bernardini)

6010 Dec24 1945

Norddeutscher Rundfunk, via Gavar Annual Special Christmas broadcast in German: "Gruss an Bord" with greetings to sailing people e.g. from a former captain, hymns to Europe // 6080 via Nauen, D, to North Atlantic and 9740 via Nauen, D, to Indian Ocean (AP-DNK)

6010 Dec29 0710

La Voz de tu Conciencia, Puerto Lleras, religious comments, "... nuestro corazón está con el Señor...", religious songs. (Méndez)

6011.732 Dec30 0625

JBA carrier, and a stronger carrier on 6010.021v, with some music, and audibly varying. Per Dave Valko log Dec 26 around 2300 in Portuguese, R. Inconfidência was on 6011.74, and EiBi Dec 29 has it on 6011.7. No other stations known now around 6010, so 6010.021 is presumably LVC, far too close to nominal (and 5910v is off) (Glenn Hauser, OK)

6011.74 Dec26 2252

R. Inconfidencia First found around 2252 w/M and W. W in PT went over the 2300 ToH. Some canned anmnts at 2302, and into mx at 2304. Slowly getting better. M in PT at 2318 recheck, and more mx. Mx pgm w/M DJ hosting continued, playing a bunch of songs in a

row after 2330. Got a het from pres. China on 6010. Nothing noted on 15190 as conditions were too poor. Hrd on a couple ZY web rx's too and only 1 ID in the 2300-0000 hour. Wonder why it's so far off freq. (Valko 26 Dec.)

6015 Dec23 0339 ZBC Radio, with reception well above the norm; a very good day for African reception - see Angola; normal format: 0339 the usual brief chanting followed by YL always mentions "Zanzibar"; 0359 usual drums leading up to time pips. Earlier (pre-0300) had CNR (China) here, but very light QRM for Zanzibar (Ron Howard, Asilomar State Beach, CA, USA)

6030 Dec27 1715 R.Oromiya Addis Ababa, prog local (Mauro Giroletti)

6035 Dec23 *0107- BBS, with anomaly on Dec 23, with transmitter going on and off. *0107 suddenly on with announcer; 0108*. *0109-0111* with announcer. *0112-0113* announcer and indigenous music. *0114-0119* announcers and the unmistakable indigenous stringed instrument music as often heard on BBS. My audio clip at <http://goo.gl/JBFPPz>. *0123-0129 indigenous music with indigenous chanting/singing. 0129 announcer. **Grayline reception**, with my local sunset at 0056 UT and Thimphu sunrise at 0048 UT today. Just before listening to BBS Bhutan, took this picture of my local sunset - <http://goo.gl/htBn41> (Ron Howard, Asilomar State Beach, CA, USA)

6040.7 Dec24 0026 Radio Evangelizar, Curitiba, Brazil, religious talks, weak (Bernardini)

6045 Dec21 1400 V.O. Freedom In the clear finally at 1400 after China went off. Not a bad signal w/W in KR then MOR KR song. (Valko 21 Dec. micro-DXpedition #1)

6050 Dec29 0624 ELWA Radio, Monrovia, English, religious comments and songs. (Méndez)

6065.0 Dec15 1835 Voice Of Hope, Makeni Ranch.E, rlg. propag. Adj. QRM. 54444 (CGS)

6065 Dec27 1725 Voice Of Hope Makeni Ranch, prog rel music (Mauro Giroletti)

6069.98 Dec25 1557 CFRX 1557 W giving her version of a memorable Christmas, canned ID by M "This is Toronto's breaking news, traffic, and weather, Indepth Radio, Newstalk 10-10. CFRB AM, an iHeart Radio station", and into Christmas mx. Fanfare, ID, nx and sports from the Canadian Press by W, Christmas and New Years ID greeting, then back to Christmas mx including "Happy Christmas, War is Over" by Lennon. Strong. (Valko 25 Dec.)

6075 Dec25 2130 NHK Radio Japan, Yamata, Indonesian bc, reports, weak (Bernardini)

6080.0 Dec19 2220 R.Marumby, Curitiba PR.Nx. Co-ch. QRM. Inaudible on // 9515. 34432 (CGS)

6080 Dec25 2135 Radio Marumby, Campo Largo Paraná, Brazil, religious, fair (Bernardini)

6080 Dec28 2146 Radio Marumby, Curitiba, "A Voz do Brasil". (Méndez)

6085 Dec21 1330 Shiokaze Sea Breeze Thought the EG pgm was only at 1330. Glad I was recording over 1300 as the signal dropped quite a bit by 1330. Usual piano mx and long opening anmnt by W w/ID, website, e-mail, phone, and mailing addr. Into nx focusing on North Korea. (Valko 21 Dec. micro-DXpedition #1)

6090.0 Dec18 1842 Voice Of Amhara State, Geja Jawe.Vn, tks, mx. QRM de NIG. 34432 (CGS)

6090 Dec23 0259 Amhara State Radio. Anguilla off the air; briefly noted clear Amhara State Radio IS; later at 0309 HOA music/ singing (Ron Howard, Asilomar State Beach, CA, USA)

6090 Dec24 Amhara R. Nice ID by W coming back from HoA Pop song. Exc. Signal. Incredibly strong. (Valko 24 Dec. micro-DXpedition)

6090 Dec24 1714 Amhara State Radio, Ethiopia, phone talks, fair (Bernardini)

6090 Dec30 0535 Voice of Amhara State Geja Addis Ababa, prog music local (Mauro Giroletti)

6110 Dec24 2023 Fana BC 2023 song "Let Me Be Your Love-Maker", then a HoA Pop song. 2028 M DJ. Audio still slightly over-modulated. (Valko 24 Dec. micro-DXpedition)

6110 Dec24 1707 Radio Fana, Ethiopia, HoA songs, good (Bernardini)

6115 Dec27 0639 music from R. Nikkei 2, JAPAN, but BFO affirms there is a second carrier making a slight beat, which per Aoki/NDXC can be nothing else but Brazzaville, altho it's a bit late for that, after sunrise 0449. Manuel Méndez in Spain often reports only Congo around 0600, but we should check as early as nominal *0500 for it, lessening CCI from Japan where that's only 14 local time. New WRTH 2018 shows 05-19 sked, but domestic service is on before 0500 and after 1900, just when English news starts. Everything is irregular and approximate (Glenn Hauser, OK)

6115 Dec30 0507 taking my own advice to try for Congo this early, but already hearing music, sure sounds like J-pop from R. Nikkei 2 where it's only 2+ pm, but twilight/dark over most of the GC path; no signal from 9760 to make a //. But there is a second weaker undercarrier on 6115 (Glenn Hauser, OK)

6115 Dec24 1710 Radio Congo, Brazzaville, talks in French, weak (Bernardini)

6134.8 Dec17 2208 R.Santa Cruz, St.^a Cruz de la Sierra.Cast, songs. 35332 (CGS)

6134.82 Dec24 0033 Radio Santa Cruz, Bolivia, romantic songs, fair (Bernardini)

6134.82 Dec28 2205 Radio Santa Cruz, Santa Cruz de la Sierra, female, male, news about Bolivia. (Méndez)

6160 Dec25 2222 NA Pirate?? Getting a weak signal here at 2222 w/unrec. Rock mx. Also had it on VA web rx, and very weak signals w/out audio on various European web rx's, but may have been something else. In fact it was strongest here. Unreadable M anncr at 2227:55 sounding like EG. 2233:20 ment of "...on frequencies 6160 khz shortwave...". 2234 back to Rock mx

sounding like a remake of “Here Come the Sun”. 2236:50 canned tk in EG by M w/ment of United States, Watergate, and Vietnam, then audio off at 2238:14 and signal gone at 2238:31. Didn’t return. Not a spur or image. One or two NA Pirates have been hrd around this freq in the past. (Valko 25 Dec.)

6160.03 Dec26 0907 Super R. Boa Vontade (pres.) Came on late at 0907:54 today w/male choral song. Too weak as usual. (Valko 26 Dec.)

6185 Dec29 0504 Radio Educación, Ciudad de México, comments, songs. Very weak. (Méndez)

6185.02 Dec29 1510 R. Educacion Audible at times. Thought I had Turkey in Italian at 1510 but it wasn't sounding parallel to what I had on a web receiver in Greece. The only other thing I could see that it could have been was Educacion. So I tried a web rx in TX, and sure enough, it was parallel. 1531 w/W then M in SP on peaks. W still audible on peak at 1546, and M at 1551 and 1556, same as on the TX web rx. Never heard R. Educacion at this time of day before. Signal visible in the display throughout the day even after China came on at 2000 (Educacion was slightly off freq.). (Valko)

6205.0 Dec16 1307 Laser Hot Hits - pir.E, pops. 35433 (CGS)

6220.0 Dec27 2133 Laser Hot Hits - pir.E, pops, tks. 35433 (CG)

6234.98 Dec24 0900 presumably) Coast FM Nx by W at the 0900 ToH. 0905 “Fascination” by The Human League. (Valko 24 Dec.)

6235.0 Dec24 1240 Coast FM (Canary Is. stn) via UNID, Irish? - pir.E, pops, tks. 25341 (CG)

6245.0 Dec16 1309 Coast FM (Canary Is. stn) via UNID, Irish? - pir.E, tks, pops. 25432 (CGS)

6264.97 Dec24 0933 R. Casanova Noted the signal here at 0933. Like Marabu, guys in the chat, including the op, said it was Casanova. Couldn’t get any audio, but probably could have at one of the remote sites. (Valko 24 Dec.)

6284.0 Dec24 1236 FRS-Free R Sce. Holland - pir.Du, pops, tks. 25331 (CG)

6284.06 Dec24 0830 Free R. Service Holland Thought this had started the broadcast at 0830, but hrd the “Close Encounters” theme song IS at 0857. Slightly weaker than 7700.02. (Valko 24 Dec.)

6294.96 Dec26 0852 R. Tower Found weak signal at 0852 then bits of audio on very short peaks after 0900. Big signal on the Leiden NL web rx. Peaks here at 0925, 0935, and 0942. M annrc at 0948. Just not in long enough. (Valko 26 Dec.)

6295.0 Dec24 1640 Reflections Europe - pir.E, rlg. propag. pxs. // 12255. 35342 (CG)

6295.02 Dec24 2203 Reflections Europe 2203-2208 rel. tk by M and choral mx at 2210. Tough reception. (Valko 24 Dec. micro-DXpedition)

6300.0 Dec23 1712 R. Merlin Int'l (t) - pir.E, songs. T-ID via DX press. 25432 (CG)

6300.0 Dec25 1654 Enterprise R (t) - pir.Pops. T-ID via DX press. 25331 (CG)

6309.8 Dec25 1621 R. Marabu - pir.G, pops, tks. 35332 (CG)

6310 Dec24 2203 R. Marabu M anmnt as soon as I started the recording at 2203, and into “Haitian Divorce” by Steely Dan. 2205 ment of Marabu in GM tk by M. “Me and You and a Dog Named Boo” at 2210. Better signal than Coast FM. (Valko 24 Dec. micro-DXpedition)

6325.0 Dec24 1644 R. Bogusman (t) - pir.Pops. T-ID via DX press. 35342 (CG)

6350 Dec21 1254 Echo of Hope 1254 usual pleasant melody and W w/“VOH” ID. Hrd again at 1354. (Valko 21 Dec. micro-DXpedition #1)

6400 Dec21 1401 Pyongyang BS Still quite audible w/usual opera-like mx 1401-1407. (Valko 21 Dec. micro-DXpedition #1)

6507.0 Dec25 1733 VMC Marine Weather Stn, Charleville QLD.Wx warnings. 25341 (CG)

6600 Dec20 2115 V.O. the People Easily audible over the jammer at 2115 w/slow Pop song, but couldn’t get 6520 // as it was covered by WLO/KLB UTE on 6519. 2120 opera mx here. 2130+ tk by M and W annrcs in KR. Still doing well at 2254. (Valko 20 Dec. micro-DXpedition)

6765.1U Dec21 1211 Bangkok Meteorological R. 1211 end of IS and mechanical M w/opening ID/freq/sked anmnt in EG as “This is Bangkok Meteorological R. broadcast on the freq of 6765.1 kHz and 8743.0 kHz from...Heavy weather forecast ?? on Thursday the 21st of December 2017. Broadcast message for shipping...”. (Valko 21 Dec. micro-DXpedition #1)

Yes, at present at 1930 UT in Thai, at 1935 UT in English, schedule 6765.1 USB and times told, station melody, and also Thai address S=7-8 or -88dBm in Europe. Dec 27 (Wolfgang Büschel)

6925.13 Dec24 2320 R. Compania Worldwide (pres.) Signal here at 2320 but SP renegades were here. 2332 poss. mx?? Definite mx at 2343 but extremely weak. Very fady. Needed that extra 315 feet of wire like last night. Just too weak. (Valko 24 Dec. micro-DXpedition)

6940U Dec19 2043 Yeti R. Just caught the last couple min. of the bdst. 2043 “I’m a Believer” by The Monkeys, followed by “Ruby Tuesday” at 2044 and “Angie” at 2045 by the Rolling Stones. 2046 M annrc in heavy special effect w/anmnt “The ??? FCC. My name is Yeti. This is Yeti Radio”. Couldn’t ID until someone responded to my post on HF Underground. Fairly good, clear and almost no QSB. (Valko 19 Dec.)

6942U Dec19 2308 Mr. Mayhem R. ID by M in echo at 2308 t/in. Deadair, then repeating IDs “This is Mr.

Mayhem R.” w/pitch getting slower. 2309 into Hard Rock mx. Tuned out at 2310. Good solid signal. (Valko 19 Dec.)

6949.76U Dec23 2337 Pee Wee R. Hrd here at 2337 w/Rock mx. 2338 SSTV but I stopped the recording before it finished. More mx and break again at 2343 for SSTV image of climbing mouse and ID at the bottom. Weak signal. Pretty good peaks at 2346 and 2349. CW at 2354 and off. (Valko 23 Dec. micro-DXpedition)

6973 Dec24 2244 Lupo R. Signal here at 2244 after I moved to the top of the hill and changed BOG to 175 degrees. Definite mx at 2259, and again at 2307 check. 2318 Tango mx. W anncr at 2341 but imposs. To copy. (Valko 24 Dec. micro-DXpedition)

7120.0 Dec15 1840 R.Hargeisa, Hargeisa, Somaliland.A, tks. Occ. amateur QRM. 35343 (CGS)

7120 Dec24 1944 R. Hargeisa Very nice signal at 1944 t/in w/clear ID by M just as I was abt to start recording. Usual stn theme song, then same M w/ment of Somaliland, and tlk by another M w/many ments of Somaliland. (Valko 24 Dec. micro-DXpedition)

7120 Dec24 1725 Radio Hargeysa, Somaliland, Somalia, talks, songs, fair (Bernardini)

7120 Dec24 1530 R Hargeisa, prog music local (Mauro Giroletti)

7181.5 Dec27 1740 Voice of the Broad Masses 2 Eritrea Asmara, talk music strong signal (Mauro Giroletti)

7205 Dec30 0505 R Omdurman Al-Aitahab Khartoum, prog music local (Mauro Giroletti)

7254.921 Dec28 0645 VON is back on tonight, S9+20/30 in Hausa toward North America (Glenn Hauser, OK)

7390 Dec24 1450 RNZI, New Zealand, conversation, then news, good (Bernardini)

7390.0 Dec23 -1758* R. NZi, Rangitaiki.E, nx, wx, Story Time, IS. Should be on 7430, not 7390. 54433 (CG)

7390.0 Dec24 1302 R. NZi.E, nx, ..., interviews. Improving; rtd. 55444 at 1500. Sched. extended beyond 1650, ditto on 25/12. 25442 (CG)

7400 Dec25 1056 apparently Ron’s UNID. hrd w/signal coming on at 1056:43 and Chinese mx up already in progress 10 seconds later. Mx over ToH and straight through nonstop till laptop battery ran out of power at 1219. (Valko 25 Dec.)

7425 Dec24 2015 Bible Voice Broadcasting 2015 closing ID/contact anmnts in EG by M. Only fair. (Valko 24 Dec. micro-DXpedition)

7520 Dec24 1510 Denge Kurdistan, Gavar, Armenia, reports, Kurdish, good (Bernardini)

7530 Dec20 2233 Suab Xaa Moo Zoo 2233-2235 “Hark the Herald Angel Sings”, 2236 M anncr in Hmong, then what sounded like a segment recorded outdoors. 2237 t/out. One of the best signals hrd. (Valko 20 Dec. micro-DXpedition)

7560 Dec24 1403 KNLS fair in Chinese, except for an Anglic “Merry Christmas” (Glenn Hauser, OK, DX LISTENING DIGEST)

7570 Dec20 2233 V.O. Korea 2233-2237 just opera mx sounding almost identical to 7580, but they weren’t. This freq slightly QRMed. Hear 7580 often, but don’t recall hearing this SP xmsn before. (Valko 20 Dec. micro-DXpedition)

7590 Dec24 1514 North Korea Reform R., Tashkent, Uzbekistan, Korean talks about Ceausescu, good (Bernardini)

7625 Dec21 1321 V.O. the Wilderness Signal already on at 1321. 1330 pgm start w/usual wind blowing SFX and trumpet blaring, rel. choral mx, and M in KR. Just a fair signal. (Valko 21 Dec. micro-DXpedition #1)

7700 Dec24 0930 FRS Holland, pirate, talks about reports, nice music program, fair, fading (Bernardini)

7700.0 Dec24 1238 FRS-Free R Sce. Holland - pir.Du, pops, tks. 35442 (CG)

7700.02 Dec24 0907 Free R. Service Holland Mx finally audible at 0907, same as on the Leiden web rx. M w/ID at 0948. 0956 M tlk w/ment of dates. 1000 ID jingle. 1010 M anncr again. 1012 “more music” jingle. 1052 still in w/M ment of the “Free Radio Service”. (Valko 24 Dec.)

7720 Dec24 1430 Radio Marconi Int., pirate, USB, ids in IT, EE, FF, weak (Bernardini)

7730 Dec20 Sound of Hope Immediately after leaving 9155/9180, came down to tune above the 41mb and was surprised to find SoH here w/same M anncr in CH that was on 9155/9180, and also found on //7810 as well!! These 2 down here were weak but audible very similar to the ones below 31m. (Valko 20 Dec. micro-DXpedition)

7995U Dec23 No sign of the Antarctic Hams doing the caroling in the 2300-0000 time frame. Disappointing. (Valko 23 Dec. micro-DXpedition)

7995U Dec23 2303 nothing heard from net of bases including McMurdo which were allegedly going to sing carols to each other from this time, per Ed Kusalik; source? Unknown for how long. Could be an interesting frequency to keep monitoring (Glenn Hauser, OK)

In Salzburg sind jetzt gegen 2315 UT Fragmente von Musik zu hören, aber sehr, sehr dünn. Aber diese Ausstrahlung war auch die letzten Jahre richtig schweres DX. (73 Christoph Ratzer)

8113.0 Dec25 1734 VMW-Marine Weather stn, Wiluna WA.Wx warnings. Uty. QRM. 23441 (CG)

8176.0 Dec23 1721 VMC Marine Weather Stn, Charleville QLD.Wx warnings. 25342 (CG)

8989.0 Dec19 2216 El Pescador Predicador, site?Rlgs. propag. USB tx. 25342 (CGS)

9100 Dec20 2109 Echo of Hope Fairly strong w/W anncr in KR at 2109, but of course mixing it up with the

			UTE here. Magnificent signal like a local at 2228 w/M and W in KR w/ments of Kim Jong. (Valko 20 Dec. micro-DXpedition)
9155	Dec20	2228	Sound of Hope End of fanfare mx at 2228, then canned anmnts by W in CH for a min., then tlk by M to 2232 t/out. //9180, similar quality signal. Weak but audible and surprised to catch these. Would never hear them at home. (Valko 20 Dec. micro-DXpedition)
9265	Dec24	0040	WINB, Red Lion, PA, USA, talks, weak (Bernardini)
9405	Dec21	2307	FEBC Another big signal here at 2307 w/jazzy version of "Santa Claus is Coming to Town". M in CH over soft instru. mx at 2310. Tlk by W then w/instru. mx started at abt 2312. (Valko 21 Dec. micro-DXpedition #2)
9445	Dec21	2307	V.O. Korea Fairly good signal here. Instru. orchestral mx 2307-2312, W anncr in CH briefly, then MOR song w/W vclist to 2314 t/out. // much weaker 9875. Some splash QRM from 9450 FEBC and Taiwan. (Valko 21 Dec. micro-DXpedition #2)
9465	Dec24	1316	Nippon no Kaze, Tanshui, Taiwan, Korean, talks, songs, good (Bernardini)
9485	Dec26	1958	NHK Radio Japan, via S.M. di Galeria, Vatican, end English bc, good (Bernardini)
9515	Dec28	2109	Radio Marumby, Curitiba, "A Voz do Brasil". (Méndez)
9550.0	Dec15	1914	R.Boa Vontade, Pt.º Alegre RS.Rlgs. propag. Adj. QRM. 23431 (CGS)
9564.9	Dec19	2218	SRDA, Curitiba PR.Rlgs. propag. QRM de Cuban jammer. 33431 (CGS)
9564.9	Dec29	0857	Super Radio Deus e Amor, Curitiba, "Igreja Pentecostal Deus e Amor", "6 horas, 59 minutos", "7 horas, Super Radio Deus e Amor...", religious comments. (Méndez)
9564.91	Dec24	0043	Super R. Deus è Amor, Curitiba, Brazil, usual talks, fair (Bernardini)
9595.0	Dec15	2237	R.Nikkei, Nagara.Tks. 15331 (CGS)
9514.93	Dec21	2312	R. Marumby 2309 C&W like PT rel. song. 2312 M anncr in PT w/ment of Christo, then choral mx briefly, and canned anmnt by M w/phone #, and nice canned ID promo by M at 2313:30. Pretty decent signal. (Valko 21 Dec. micro-DXpedition #2)
9525.94	Dec24	1323	Voice of Indonesia, Jakarta, talks, poor (Bernardini)
9629.95	Dec27	0020	Radio Aparecida, Brazil, religious talks, weak (Bernardini)
9630.0	Dec17	1047	R.Aparecida.Mass, advs., fqs. ann., px Rádio Revista. F/out. 1210 25432 (CGS)
9630	Dec28	2108	Radio Aparecida, Aparecida, "A Voz do Brasil". (Méndez)
9635.0	Dec15	1305	R.Mali, Kati.F, nx till 1318, tradit. songs. Weak modulation, chiefly during the nx. 55444 (CGS)
9635	Dec28	1721	Radio Mali, Bamako, Vernacular comments. (Méndez)
9635.8	Dec18	1125	R.Voice Of Vietnam, Son Tay.Vietn, tks, mx. F/out. 1220 35432 (CGS)
9650.0	Dec15	1303	R.Guinée, Sonfonia.F, nx .55444 (CGS)
9650.0	Dec15	1717	SAUK/R.Sonder Grense, Meyerton.Afrkns, tks, songs. QRM de GUI. 53442 (CGS)
9650	Dec21	1853	R. Guinee Nice lcl Afro mx 1853-1859, deadair, then canned ID at 1859:30. 1900 Afro mx briefly, live M in FR w/ID, mx bridge, then M w/pres. nx. Nice signal but wandering band of ruined it. (Valko 19 Dec.)
9650	Dec21	2309	V.O. Korea 2309 usual opera-like vcl mx, then soft instru. song to 2314 t/out. Should have been in JP but no anmnts hrd. Mixing abt equally w/Guinea. (Valko 21 Dec. micro-DXpedition #2)
9650	Dec24	1628	Radio Guinée, Conakry, French, weak/fair fading (Bernardini)
9665	Dec21	2305	KCBS, Kanggye Huge signal at 2305 w/W in KR in forceful desk-pounding manner. Sounded //6400. Tuned out at 2314. (Valko 21 Dec. micro-DXpedition #2)
9674.9	Dec20	1040	R.Canção Nova.Tks. F/out. -1150 15431 (CGS)
9674.9	Dec27	0035	Radio Cancao Nova, Sao Paulo, Brazil, talks, weak, QRM (Bernardini)
9674.9	Dec28	2104	Radio Cancao Nova, Cachoeira Paulista, "A Voz do Brasil". (Méndez)
9720	Dec24	1750	Dimtse Radio Erena via Sofia, prog vernacular + ID " Radio Erena" (Mauro Giroletti)
9725.2	Dec29	2120	R. Evangelizar, Curitiba PR.Natl. nx magazine A Voz do Brasil. 25342 (CG)
9725.4	Dec17	1100	R.Evangelizar.Tks, songs. F/out.2-1210 5431 (CGS)
9725.5	Dec28	2000	Radio Evangelizar, Curitiba, "A Voz do Brasil". (Méndez)
9730	Dec26	*1830-	Voice of Vietnam, Hanoi, start bc in German, fair (Bernardini)
9724.9	Dec19	2229	R.Evangelizar, Curitiba PR.Request for Xmas donations, px anns., songs in px De bem com a vida. 45444 (CGS)
9725.36	Dec24	0046	Radio Evangelizar, Curitiba, Brazil, talks, phone numbers, good (Bernardini)
9765.0	Dec25	-1058*	R. NZi.E, songs. 35433 (CG)
9795	Dec21	2309	FEBC 2309-2314 EG lang. lesson in the Mon lang. pgm hosted by M and W anncrs. Of course scriptures were used. And some words were spelled out such as "think" and "spoke". Fair signal. (Valko 21 Dec. micro-DXpedition #2)
9800	Dec24	*1900-	NDR Annual Christmas relay for sailors. *1900 w/W doing nx in GM already in progress. 9790 and 9740 fair to good, 11650 very poor but audible and fady, and 6080 and 6010 excellent. Interestingly, 6080 was ahead of 6010. (Valko 24 Dec. micro-DXpedition)
9809.98	Dec29	1230	AIR Panaji Weak at 1230 but came up rapidly and decent signal in just 5 min. Indian Pop mx to W anncr in pres. Tamil at 1240, then deadair for 5 min., and audio back at 1245 w/W anncr and canned anmnts in possible Hindi. Horrible distorted noise in the audio. Audio cut

and test tone for 2 seconds, then off at 1254:17. So this was indeed the one with the test tone yesterday. (Valko 29 Dec.)

9818.76 Dec24 0049 R. Nove de Julho, Sao Paulo, Brazil, talks, weak (Bernardini)

9818.8 Dec20 1035 R. 9 de Julho, São Paulo SP, Tks. Adj. QRM. F/out. -1145 14331 (CGS)

9818.8 Dec28 2106 Radio 9 de Julho, Sao Paulo, "A Voz do Brasil". (Méndez)

9835.0 Dec20 1031 Sararawk FM via RTM, Kajang. Koranic propag., ..., songs, nx at 1300. 35433 (CGS)

9850 Dec21 2309 Sound of Hope CH tk by M and W pgm hosts 2309-2314. Apparent R. Free Asia relay, but didn't find this until afterwards, so no //s checked. (Valko 21 Dec. micro-DXpedition #2)

9865.0 Dec19 1300 AIR, Bangalore. Ind. lang., Indian songs, tks. 35433 (CGS)

9898 Dec26 1332 V.O. Tibet (via Tajikistan) Found w/weak signal at 1332 w/tlk in Asian lang., no doubt Tibetan. Signal went off 1335:44 on sked. (Valko 26 Dec.)

9899.58 R. Cairo AR version of "Jingle Bells" at 2108!!! Had to change the laptop battery after the song, and W was in FR on return. (Valko 24 Dec. micro-DXpedition)

9903 Dec26 1336 V.O. Tibet (via Tajikistan) Came on here just 3 seconds after 9898 went off. Cont. tk in pres. Tibetan by M, W joining in later. Still tking and no change in signal quality by 1345 t/out. Don't recall ever hearing these 2 freqs before. (Valko 26 Dec.)

9920 Dec21 2309 Sound of Hope 2309 W in CH, then M annr from 2311. Very weak signal w/some fading and slop QRM from a huge WTWW on 9930. (Valko 21 Dec. micro-DXpedition #2)

9930 Dec20 2106 WTWW Massive signal w/Christmas mx at 2106, then nice canned ID by M w/ment of "...with miles of wires, and thousands of volts...". (Valko 20 Dec. micro-DXpedition)

9955 Dec25 2220 La Rosa de Tokio, via WRMI, USA, Spanish, world radio infos & history, fair (Bernardini)

11580 Dec24 2227 RAE Argentina al Mundo, via Okeechobee, FL, USA, Italian bc, good (Bernardini)

11615 Dec24 1815 Afia Darfur R. Moepeng Hill, prog local (Mauro Giroletti)

11725.0 Dec23 *1759- R. NZi, Rangitaiki. IS, *1759-1958* E, nx, ..., nx at 1900, ..., interviews, fq change ann., IS. Deteriorating. 25432 (CG)

11725.0 Dec24 1822 R. NZi.E, mass. Unscheduled b/cast; should be 1759-1958 on Sats. only. 25432 (CG)

11735.0 Dec18 1844 R. Transmundial. Px Falando Sério on buying used cars, nx. QRM de TZA. 44444 (CGS)

11735 Dec24 1633 Zanzibar BC, Tanzania, talks in Swahili, fair (Bernardini)

11735 Dec24 1802 Zanzibar Broadc. Corp Dole, prog news in Eng (Mauro Giroletti)

11735 Dec28 1840 Radio Transmundial, Santa María, id. "transmundial.com.br". Interference from Tanzania. (Méndez)

11735.0 Dec31 1845 Zanzibar BC, Dole. Swah, rlg. propag., mx, nx at 1900. 35443 (CG)

11750 Dec24 1636 SLBC City FM, Trincomalee, Sri Lanka, songs, good (Bernardini)

11780 Dec28 2135 Radio Nacional da Amazonia, Brasilia, "A Voz do Brasil". (Méndez)

11815.0 Dec15 1317 R. Brasil Central. Px Parada dos Desportos. Vy. good on 18/12, 1245. 25432 (CGS)

11815 Dec24 0100 Radio Brasil Central, Goiana, nice songs, fair (Bernardini)

11815 Dec28 2118 Radio Brasil Central, Goiania, "A Voz do Brasil". (Méndez)

11828v Dec29 1417 Found a strong OC here at 1417 varying quickly and drifting as well. Was able to check on a number of web rx's around the world and it was noted everywhere. Went off at 1428:46 w/out any audio unfortunately. Must have been someone with a high-powered xmtr. (See below) (Valko)

11828.5v Dec30 1410 AIR (site??) Found again today at 1410 w/audio, unlike yesterday. M tk in what sounded like Hindi. 1412-1419 subcont. mx. 1419:25 clear AIR ID by M and tk. Another ID by M at 1429:37. Discussion by at least 2 men from 1430 until the signal suddenly went off at 1433:05. Fair signal w/some QRM from 11830 which was easily notched out. I don't see AIR listed on either 11825 or 11830. A Youtube video of the reception can be found by clicking on this link: <https://youtu.be/RUHUs6efpvQ> (Valko)

11854.9 Dec28 0650 R. Aparecida is still/again missing, while other 25m ZYs, 11815 and 11934.9 are detectable. Art Delibert in Maryland had noted it was back on in the meantime, UT Dec 27 at 0340 on 11854.89; and Wolfgang Büschel listening via Florida put it on 11854.848 with a tiny signal Dec 28 at 1110 (Glenn Hauser, OK)

R. Aparecida is NOT missing - now at 21-22 UT Dec 28 slot more than fair signal here in Germany. (Wolfgang Büschel via DXLD)

I hear their off-frequency carrier also around 2139, but it seems not be running all-night. (Glenn Hauser, OK)

11854.9 Dec28 1912 Radio Aparecida, Aparecida, "A Voz do Brasil". (Méndez)

11860 Dec26 1840 Rep. Yemen Radio Sana'a, via Saudi Arabia, talks, weak (Bernardini)

11895 Dec28 2120 Radio Boa Vontade, Porto Alegre, "A Voz do Brasil". (Méndez)

11895.1 Dec15 1915 R. Boa Vontade, Pt.º Alegre RS. Rlgs. propag. 25442 (CGS)

11895.1 Dec16 1310 R. Boa Vontade. Children's px. 15431 (CGS)

11915.0 Dec19 1813 R. Gaúcha, Pt.º Alegre RS. Nx. QRM de ARS. 23441 (CGS)

11934.9 Dec18 1243 R. Evangelizar, Curitiba PR. Rlgs. propag. px Experiência de Deus, advs. 25432 (CGS)

12019.12 Dec31 1133 VOV 12019.120 // 9839.798 (thanks to Wolfie for exact measurements), in English at 1133, with item about Vietnam successfully controlling inflation, etc; per Wolfie, both via Son Tay site, whereas Aoki listed "Hanoi-Sontay"; both equally fair (Ron Howard, Asilomar State Beach, CA, USA)

12019.12 Dec24 1006 V.O.V. W doing the nx in EG at 1006, //9839.81 which was good. Better than a couple days ago. (Valko 24 Dec.)

12050 Dec26 1804 R. Dandal Kura, Ascension, talks in African language, fair (Bernardini)

12065 Dec12 1400 WEWN on its new frequency, ex. 15610 kHz. 3-4 (CB)

12255.0 Dec24 1646 Reflections Europe - pir.E, rlg. propag. pxs. // 6295. 35443 (CG)

12255.03 Dec24 1856 Reflections Europe?? Weak signal but something here at 1856:50 w/what sounded like a W anncr once or twice on very short peaks. Didn't want to spend time on this as the NDR broadcasts were abt to start. (Valko 24 Dec. micro-DXpedition)

12365.0 Dec25 1647 VMC Marine Weather Stn, Charleville QLD.Tks. 15341 (CG)

13840.0 Dec23 *1959- R. NZi, Rangitaiki.IS, E, nx. 15331 (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) Ron Howard, oceanside at Pacific Grove, CA, USA Manuel Méndez, Lugo, Spain AP-DNK, Anker Petersen, Skovlunde, Denmark Mauro Giroletti, Italy	(CG) Carlos Gonçalves, Lissabon, Portugal (CGS) Carlos Gonçalves, SW coast, Portugal Giampiero Bernardini, Milan, Italy Dave Valko, Dunlo, PA, USA CB, Christer Brunström, Halmstad, Sweden Christoph Ratzer, Salzburg, Austria
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(CG) = **Lisbon.** JRC NRD-545DSP & PERSEUS *sdr*; homemade amp. (*W7IUV* version); 20 m & 16.7 m T2FDs, 5 MHz dipole, 6x19x6 m Ewe 135°, raised, 4 loop K9AY

(CGS) = **SW coast** JRC NRD-545DSP & DRAKE R8-E; *Advanced ReceiverResearch* amp.; 20 m T2FD, 30 m 180°/0° mini-Bev., 80 m 300°/120° Bev., 200 m 270°/90° Bev., 270 m 145°/325° Bev., 300 m 225°/45° Bev., raised, 4 loop K9AY.

Station news

AUSTRALIA. More on this shortwave station, also how to obtain a QSL card. Amateur Radio Newline, From John Williams VK4JJW, December 29, 2017

NEW 60 METER SHORT WAVE LAUNCHES in AUSTRALIA

At last, short wave radio station **4KZ** is on the air at **5055 kHz** from Queensland, Australia. Signal reports are coming in from New Zealand and parts of North America. Al Kirton VK4FFKZ general manager of NQ Radio, reports that transmissions started on the 20th of December and currently will be at half-power, or 500 watts, until repairs can be made of one of the RF boards. The station will then operate regularly at its 1 kW of power using an inverted V antenna at a site in Tropical North Queensland. Although the 60 meter transmissions are intended for the listening audience in the northern outback and the Cape York area, signal reports have come in from as far away as New South Wales, Victoria, New Zealand, Canada's province of Alberta and even Monterey, California in the U.S.

Australian Broadcasting Corporation ended its short wave transmissions to the northern outback in January.

If you're interested in listening for the signal and want to receive a 4KZ shortwave QSL card, be listening from 0500 to 2300 hours UTC and send your report to Al Kirton by writing to Al at nqradio dot com dot au (a...@nqradio.com.au) or to Radio 4KZ, P.O. Box 19, Innisfail Queensland 4860 Australia. (WIA)
(Mike Terry via DXLD)

BRAZIL. 11762 approx., Dec 15 at 2108, no carrier but S9 signal of extremely distorted Brazuguese. So for a change, it's not RHC as Mark Coady and I first guessed. Nor is it RHC's style of a single plodding scripted M announcer, rather lively W&M interchanges, and they're talking about Brasil, not Cuba.

Therefore, it must be the RNA transmitter which is supposed to be on 11780, but totally out of whack --- nothing there as it has been active lately until 2200. The splatter field extends roughly 11740-11785. It is marginally more readable on the R75 in FM mode, and noise blanker also helps slightly. Much greater signal level than the other ZYs on 25m now, 11854.9 and 11934.9. RHC is not on yet, but by 2206 it has replaced RNA on 11760 with normal modulation in Spanish at S9+20. Will this happen again Dec 16? (Glenn Hauser, OK, DX LISTENING DIGEST)

[followed up by:]

BRAZIL [and non]. 11760-11780, Dec 16 at 1905, 2157 chex, no signals, proper or otherwise from RNA, unlike yesterday. Later we get a tip from Manuel Méndez, Spain, that the other RNA frequency, 6180 was heard with ID at 2125.

Maybe they only have one transmitter semi-usable. By the time I'm back at the dials, 2342, could be RNA mixing with CRI, but S8 weaker than adjacents 6175 and Mexico 6185. By 0007 Dec 17, only a JBA carrier on 6180. CRI schedule is 2200-2257 Mandarin, 2300-2357 Cantonese, both via Kunming. Then there's Iran in Spanish on 6180 at 0020-0320 (Glenn Hauser, OK, DX LISTENING DIGEST)

INDONESIA. Atsunori Ishida's website (<http://rri.jpj.org/>) has today (Dec 17) posted the following:

"This site will not be updated after December 31, 2017."

So he will no longer be doing his daily monitoring and posting his results there. Would seem logical that his decision to do so is due to the current lack of stations to report on.

At his site, note "Previous Results" that he started back in March 2010, a time that had a good number of stations to keep track of, very much unlike the present situation today.

Certainly I will miss the excellent info that he has provided over the years. A job very well done!
(Ron Howard, California via DXLD)

NIGERIA [non]. 11530, Dec 25 at 1920, WRMI is not yet on, no Biafra, but at 1929 in the IS & ID loop before ``top of hour`` programming. 1930 opening R. Herwa International. Is it also on 9580 via FRANCE, like the ex-Biafra hour was? JBA carrier here, but good on UTwente, ID at 1934, while 11530 is inaudible there.

Strangely enough, this Herwa broadcast is as yet unknown to Aoki/NDXC and Observer. HFCC does show 87 degree azimuth for WRMI 11530 at 05-06 and 19-20, which is what it should have been all along toward Africa, altho not confirmed on WRMI's own skedgrid. EiBi of Dec 23 does have Radio Herwa at 1930-2000 on 11530, following my discovery of it Dec 22

(Glenn Hauser, OK, DX LISTENING DIGEST)

Other radio news

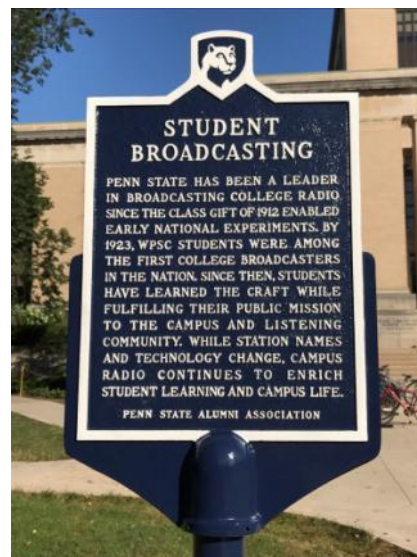
Penn State station

More information on the Penn State station from Brett Saylor in State College. It was on shortwave and medium wave. The first link shows a similar photo with railroad tracks in front. Brett says that indicates the station was in the southwest corner of the campus where the electrical engineering buildings are today, as that is where the old train line ran. The contact address is 102 Foster Ave - I lived on that block for two years. The houses have long since been replaced by apartments. The second link is a more detailed article on the history of this station and student broadcasting at Penn State.

From QST/April 1916/8XE - Wikisource, the free online library

Penn State Student Broadcasting campus historical marker, see <https://tomshakely.com/2017/08/11/penn-state-student-broadcasting-campus-historical-marker/>

(Don Moore, donmooredxer@yahoo.com <http://www.donmooredxer.com>)



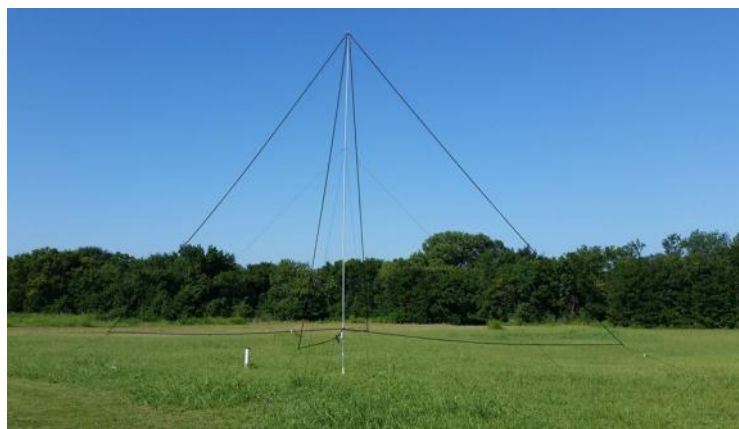
SAL Mark II antenna general information page

Shared Apex Loop - SAL antenna general information, tips, related links and downloads.

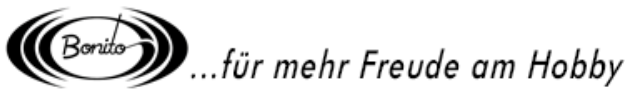
Array Solution hat eine neue Seite für seine SAL Antennen veröffentlicht. Das wäre schon was feines für den MW-DXer.

<https://www.arrayolutions.com/sal-general-info>

(Christoph Ratzler via A-DX)



Coaxial Power inserter



Ab jetzt einzeln erhältlich! <https://hamradioshop.net/.../Antennenzub.../Einspeiseweiche.html>

Einspeiseweiche.

Unsere beliebte Einspeiseweiche der Boni-Whip ist nun auch einzeln erhältlich. Diese Einspeiseweiche versorgt eine ferngespeiste Aktivantenne, über das angeschlossene Koaxkabel mit Gleichspannung. Sie verfügt über zwei BNC-Anschlüsse, die ein schnelles Anschließen / Umwechseln von Koaxialkabeln ohne Lötarbeiten zulässt. Durch den weiten Frequenzbereich von < 20kHz - 300MHz arbeitet sie auch mit vielen anderen gängigen Aktivantennen.

(Christoph Ratzer via A-DX)



ELAD FDM S3



Der FDM3 ist noch nicht "draußen". Es laufen gerade die letzten Betatests, wie in der ELAD-Mailingliste zu lesen war.

Wird also noch noch einige Wochen dauern...

(vy73, Christof Proft via A-DX)



Price acc to Elad website c:a 950 Euro /TN

HAPPY MEMORY: THE HALLICRAFTERS SX-42 COMMUNICATIONS RECEIVER

<http://www.radioworld.com/tech-and-gear/0003/happy-memory-the-hallicrafters-sx42-communications-receiver/340890>

It was an important calibration tool and part of annual proof-of-performance measurements December 13, 2017

By Tom Vernon <http://www.radioworld.com/author/tom-vernon/article>

If we were to journey back in time and visit the engineering shop of a radio station in the 1960s or '70s, it would look very similar to the repair facilities of a hi-fi or radio-TV repair shop of the day. There would be a carpeted workbench and a shelf above filled with test equipment — VTVMs, RF signal generators, an audio oscillator, distortion meter, signal tracer and an oscilloscope. The quantity and quality would vary as a function of the engineering budget.

Front view.

Also, we would find a stock of electronic components, resistors, capacitors, diodes, vacuum tubes, transistors and a bit later, integrated circuits. Bins with pinch rollers, belts and heads would be on hand to keep the station's cart machines and tape decks rolling along.

Unique to the radio station's shop, however, there would also be a quality communications receiver connected to an outside antenna. Most likely, it was used by the engineer to listen to some of the great top 40 stations of the day while working alone on long overnight maintenance shifts, or possibly to hear shortwave broadcasts from around the globe on cold winter nights.

But the real purpose of having a communications receiver at the station was not to provide entertainment for the chief engineer. It was all about compliance with FCC rules.

This time around in our Plugging into the Past feature, we'll examine the Hallicrafters SX-42 communications receiver, and talk about why these radios were an important calibration tool and also a part of the annual proof-of-performance measurements.

SX-42

The SX-42 was the flagship of the post-war Hallicrafters product line, replacing the 1940 SX-28 Super Skyrider. Released in 1947, it had the most extended band coverage of any receiver in the early '50s.

Originally, that meant five bands topping out at 55 MHz. But when the FCC announced that the FM broadcast band would be moved from its prewar 42–50 MHz home to its current 88–108 MHz location, Hallicrafters quickly added a sixth band, bringing coverage up to 110 MHz.

This double-conversion receiver sold for \$275, quite a chunk of change in those days. But then, it had a lot of features most receivers didn't have. Its 15-tube chassis featured a crystal filter, BFO, six-position selectivity switch, noise limiter

and continuous FM coverage from 27 to 110 MHz. To make this complicated receiver less intimidating for non-technical users, the various switch positions for AM/FM broadcast were clearly marked with red dots.

Bottom view.

Not only did the SX-42 have more features than pre-war sets, it looked entirely different. Plastics had evolved during the war years, creating a lot more options for cabinet designs than the black and brown bakelite that was the norm before the war. To capitalize on these new materials, Hallicrafters commissioned the noted industrial designer Raymond Loewy to create the cabinet design for the SX-42. Loewy is well remembered for his work on the Pennsylvania Railroad, Studebaker and NASA.

The traditional black crinkle front panel was replaced by one with a pleasing light grey finish and green lettering. The main tuning dial, bandspread dial and S-meter face were green plastic, which filled the DXer's radio shack with a pleasing green glow. For the radio enthusiast of the late '40s, it must have looked like something that arrived from out of the future.

Part of the annual proof for AM stations was measuring spurious radiation, including RF harmonics, to ensure they were low enough to prevent harmful interference. The procedures for doing this were not that well defined in the regulations, as no numerical measurements were spelled out. A communications receiver was normally used.

Steps needed to be taken to ensure that the front end of the receiver would not be overloaded, and that could entail adding an RF attenuator ahead of the antenna. Usually the studio was located well within the station's coverage area, and measurements were taken from the shop using an external long wire antenna.

The receiver was slowly tuned up from the fundamental frequency, paying particular attention to the second and third harmonics. Good engineering practice dictated a sweep all the way up to the 10th harmonic, or the upper limits of the receiver's frequency range. The details were noted in the proof, adding that no harmonics were audible. When problems did occur, it was usually with excessive second or third order harmonics, which often boiled down to misaligned or lightning-damaged harmonic traps in the transmitter.

For FM stations, a communications receiver with a BFO such as the SX-42 was essential for calibrating the modulation monitor by using Bessel's Function. This was typically done before the proof. First, the receiver's antenna was connected to the first limiter tube of the monitor by wrapping a few turns of wire around it. Then, it was tuned to the monitor's IF frequency by peaking the S meter. Typically, this was 21.5 MHz to 22.7 MHz, depending on the station's frequency. The receiver's BFO was adjusted for around 300 Hz. The FM monitor was set to display total modulation on the meter.

Next, precise audio frequencies which corresponded to various percentages of modulation at different null points were fed to the FM transmitter. There was usually a chart in the monitor's manual that listed these. For example, a frequency of 8,670 Hz corresponds to 100 percent modulation at the third null. The amplitude of the audio oscillator was increased while noting the nulls from the receiver. With the third null, the transmitter was modulating at 100 percent.

Then, the calibration tweaks on the monitor for meter and flasher were adjusted. It was usually good practice to repeat the process for nulls yielding lower modulation levels to confirm the meter's linearity, and the flasher's accuracy. All this, of course, was logged in the station's maintenance log.

In addition to assisting with proofs, the SX-42 was often used to assess the overall quality of a station's AM and FM signals. With its 6V6 push-pull output stage and high-quality output transformer, this receiver was capable of impressive audio quality.

Many communications receivers of the day had single-ended audio output stages and mediocre wideband performance. This was not surprising, since the audio quality of short-wave broadcasts and amateur communications traveling half way around the globe was far worse than that of AM radio.

THE END OF THE LINE?

In the end, the inevitable march of time and newer technologies took its toll on those communications receivers in the engineering shop. By the 1970s, many of them were approaching the 30-year mark. While they were still working, they were probably not working well. A complete overhaul and alignment was needed, but it was usually much more cost-effective just to purchase one of the many high-end portable communications receivers, which could do double duty on the bench and in the field.

At the same time, RF spectrum analyzers such as the Tektronix 491 were being introduced. They were much better diagnostic tools for tracking down harmonic and intermod issues than a communications receiver. Early spectrum analyzers were expensive, but typically at least one station in a market had one. Usually it was the TV guys.

As to calibrating FM mod monitors, the newer solid-state devices were much more stable, and had internal calibrators. Their calibration was a bit more complicated than older devices, and they usually made a trip back to the factory to be tweaked every five years or so.

The SX-42 shown in this story has just such a history. It came from the engineering shop of a suburban Boston radio station. It had been forgotten in the attic until the mid-1980s. When new cable troughs were being routed above the ceilings, it was rediscovered. When plugged in, it fell into the "working, but not working well" category.

The first step was rounding up the usual suspects. Switch contacts and pots were given a good cleaning with DeOxit. Many of the original wax capacitors remained, and they, along with the aging electrolytics were replaced. All the tubes were tested, and several in the front end were renewed.

A service manual was located, then it was a matter of measuring and logging voltages at the tube sockets and replacing numerous out-of-tolerance resistors.

Restoration work on this SX-42 has been interrupted by a few long distance moves, as well as being locked away in storage for 15 years. It works reasonably well, but needs a thorough cleaning and careful alignment.

The SX-42 was a landmark receiver when it was introduced in 1947. Its sleek industrial design, high quality construction, extended band coverage and high-quality audio output are what made it a such a standout receiver, and why it is still sought out by collectors and radio amateurs.

(via Kevin Redding, Crump TN, ABDX via DXLD)

WEB SDR UTWENTE FOR SMARTPHONES AND TABLETS

via smartphone aus Uni Enschede <http://websdr.ewi.utwente.nl:8901/m.html>

This is an experimental version of the University of Twente's WebSDR receiver for smartphones and tablets. It should work using Safari on iOS devices; Firefox or Chrome on Android devices; and Edge on devices running Windows 10. Tuning is different from the normal WebSDR: do not drag the yellow filter curve, but the waterfall. Comments can be sent to pa3fwm@websdr.org (Wolfgang Büschel, A-DX, DX LISTENING DIGEST)

Stickers

Along with the reports, I really enjoy the QSL and sticker illustrations in SWB. Here are some of my Latin stickers I recently scanned. Maybe you can use them as you have space available? I have others but thought I would send you these now.

Thanks for the great work you do with SWB.

(73, John Herkimer Victor, NY)



John Ekwall has also scanned Radio Bucaramanga for us.

Radio Eco was scanned by John Ekwall.





John Herkimer and John Ekwall, thanks a lot for sharing those nice stickers with us.

There are a few more waiting for publication in coming issues.
(Thomas