

SHORTWAVE BULLETIN

Issue no. 1870, Feb 26, 2017.

Deadline e-mail next issue: 0800 UTC, March 12, 2017.

Once again one of the oldtimers have found SWB.

This time it is Esko Christiansen dx-ing from the island of Fårö.

He is wellknown for many of the Perseus users as he shares his Perseus with others. Take a look at the Perseus Server Map.

In this issue a lot of information regarding the HAARP experiments. Their signal was heard among others by Christoph Ratzer on 2800 and 3300 kHz.

Also thanks for the pictures from Ron Howard and Christoph Ratzer. Both with extremely beautiful scenery.

I have tried to catch 5825 R Triunfal Evangelica lately but without any luck.

Their signal must be too weak to make it over here.

Hopefully it could be heard by others than Claudio Galaz who lives in Chile. Such a station is real DX.

Hope you find something of interest in this issue.

Keep on

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R e d a k t i o n :

Thomas Nilsson

E-mail:

thomas.nilsson@ektv.nu

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.

Vi hälsar ännu en gammal DX-are välkommen i gänget. Det är verkligen trevligt att SWB läses av många ute i stugorna. Kan även tillägga att det är länge sedan vi i SWB gick över helt till digital version av bulletinen. Esko presenterar sig själv så här:

Esko Christiansen. Sitter och kikar i SWB 1869. Skulle vara skoj att få vara med.

En kort presentation av mig själv:

Född 1952 i Danmark (finsk mor, dansk far som var radioamatör i Danmark), bott i Sverige sedan 1955. Började DXa hösten 1967, blev sedan snart medlem i Mälardalens Radiosällskap (fortfarande medlem). Den mest aktiva perioden slutade 1972. Efter studier på KTH har det varit arbete inom IT, speciellt stora databaser med företag- och befolkningsuppgifter. Slutade lite i förtid våren 2015 för att få mer tid med en sjuklig fru som sedan gick bort våren 2016.

Har bott i Solna och Stockholm tills nu när jag nu flyttat till sommarhuset på Fårö.

Har sedan några år en Perseus och en ALA-1530S. Har haft en del problem med diverse störningar från home-plugs (borta nu) och framför allt en Boxer-låda (också borta nu). Min Perseus är även åtkomlig för alla som vill testa den (finns på kartan). Förra sommaren lyssnade jag några gånger på ABC Palm Springs på 4835 med utmärkt hörbarhet, men någon rapport blev det tyvärr aldrig - väntade för länge. Tänkte försöka komma igång med DXing-igen, även om kortvågsbanden inte är som förr.

Behöver ingen tryckt version av SWB, epost räcker gott!

Dave Valko: More radio nostalgia. Just uploaded a Youtube video with an old reception of Radiodiffusion Television Voltaique from Upper Volta on 4815 from 1983. Here's the link if you'd like to hear/watch it <https://youtu.be/JJrHx8raEQ>

Christoph Ratzer:

HAARP Alaska was on air with his first test, heard today Feb 20 on 2800 and 3300 at 0330 UT with low signal.

Test continue the next two days.

Picture from today by Chris Fallen.



Dan Olsson: Åter dags igen för att bidra till bullen. Tyvärr så har DX-ingen blivit undansatt denna vecka då barnbarnen har bott här. Då har både tiden och tillgången till datorn blivit reducerad.

Lite QSL har kommit: **3900 Polaris Radio** e-brev o kort, **5835 R Evropa** e-brev o kort, **6195 Shortwave Zero Zero** e-brev och kort, **6240 R Mexico** e-brev o kort, **6320 R 319** e-brev o kort, **6375 Time Radio** e-brev o kort, **6850 Radio Freedom** som är en italiensk pirat, e-brev o kort, **6960 R Digital** vykort, **6969 Station Henry** e-brev o kort.



Ron Howard: Picture of a rainbow at Asilomar State Beach Park (Calif.), today (Feb 21), at 1530 UT, across the street from where I sit in my car to SWL - <http://goo.gl/qPnFNv>.

(Thanks for a nice picture. With such an overwhelming scenery - it must be easy to forget to DX. /Thomas)

Log

(UTC)

2485	Jan30	1230	VL8K Katherine, Northern Terr. Serv., threshold level signal coming in in waves, but occasional brief bursts of full audio, unfortunately nothing on 2325, sadly probably the last time for this one. (XM)
2800	Feb20	0330	HAARP Alaska was on air with his first test, here today on 2800 and 3300 at 0330 UT with low signal. Test continue the next two days. (Christoph Ratzer)
2800	Feb20		HAARP. Tuned into 2800 before announced start of their test transmission, and am hearing at very good levels intermittent grouped keying lasting 4 seconds, then repeated every 30 seconds. Presumably them? (73, Walt Salmaniw, Victoria, BC via DXLD)
3210	Feb18	1300	Test of Unique Radio, seemed that I was hearing a JBA open carrier that was not there minutes earlier; well below threshold level; totally unusable; subsequent checking through 1450 had extreme challenge to even tell for sure if the open carrier was still there or not. My conclusion is that this will probably be mostly unusable for us in the States. Seemed today was not an issue with propagation, as most days Korea, on 3219.9 (5 kW), is just an open carrier, but today had definite singing at 1451, so generally good propagation and Korea on 3320 (100 kW) had the usual good reception (Ron Howard, Calif., USA)
			----- Thanks to Brian's tip, I heard Unique Radio on the SDR receiver at Freemans Reach NSW, from tune in at 1125 UTC. Fairly weak but steady signal there, with a lot of static. Programming included World of Radio starting at 1134 utc. (73s, Dave Kenny via DXLD) -----
			Unique Radio test bcst also hrd from Perseus site in Brisbane at 1739 tune w/pop vocals and ID by man "Unique Radio" at 1742. SINPO 34433 with a het about 9 KHz. Atmospheric noise was not too bad - no lightning crashes, anyway. Best in LSB to avoid the het. I'm not as good IDing songs as Brian, Hi! Assuming Tim will again go to approx. 1900 UTC again on this test. Looks like Gunnedah is about halfway between Sydney and Brisbane. Tnx for heads up, Brian!
			Unique R 3210 abruptly signed off at 1807.5 after a short announcement which I could not discern as some local electrical noise (pulses across the band) started after 1800 that made the program harder to understand. (Bruce Churchill via DXLD)
3210	Feb19	1020	Unique Radio heard on 3210 kHz in Sydney, 1020-1026 UTC Sunday 19 th with music (Identified clips included "She's Got The Look" by Roxette at approx. 1020, "We are Au-

			stralia" at approx. 1023, "Man from Snowy River" at 1031), interspersed with ID's, other short music clips and snippets of comedy audio skits. Signal would be pretty good here in Sydney if it wasn't for local storm crashes ruining the bands tonight. SINPO 35132 at S5-S7 levels with music cutting through the lightning crashes a lot better than the spoken word.
3300	Feb20	0312	Regards, Brian Powell, (Base QTH – Southern suburbs of Sydney Australia via DXLD) HAARP. Second series of tones started at 0312 – SINPO down to S3 with heavier QSB for this series. Music from 0316...back to tone sequence for 3 rd series at 0322. Tone sequence changed at 0324 from longer interval to approx. 1 sec interval. Solid tone after silence at 0325.5 to 0326.5. Weaker tones at 0327 fol by music and anmt by man at 0327.5 with music ending 0331 and carrier off at 0331.5. Last series started at 0332 with approx. 2 sec tones switching to 1 sec tones at 0334 to 0335. Silence then solid tone at 0335.5. Music again at 0337.5 to 0341.5. Carrier off at 0341.5. Summary: Series 3 was best, then series 1 with series 2 and 4 being the weakest. Bruce Churchill via DXPlorer
3310	Feb15	2305	Radio Mosoj Chaski, Cochabamba, Quechua, fair to poor signal strength. (Wilkner)
3310	Fewb1	2323	R. Mosoj Chaski, Cochabamba, quíchua, texto. (Carlos Gonçalves)
		7	
3325	Feb17	1122	NBC Bougainville long speech by M w/ments of Bougainville. 1143 brief deadair, and into mx. 1151 reggae-like island Pop song. 1155 live W w/closing ID anmt "...broadcast on NBC Bougainville." and ment of SW and FM freq, another ID, date, and ments of Papua New Guinea, "ogala night", Monday, and suddenly off at 1156:55 before she could finish. Pretty nice signal. Not as strong with the Delta Loop but quieter than the Wellbrook for some reason. (Valko)
3325	Feb23	1324	Music at S9-S7, presumed RRI Palangkaraya; nothing on 3345-, so Ternate must be off already (Glenn Hauser, OK)
3344.869	Feb19	1345	JBA carrier on signature off-frequency of RRI Ternate. Confirmed regularly active at http://rri.jpj.org/ (as ``3345``) until sign-off close to 1500*. Sign-on times vary widely from as early as *1959 to as late as *2051. This is one of only three remaining active RRI tropical stations, the others being 3325 and 4870-. Ron Howard put it on 3344.85 until 1503* Jan 29. Walt Salmaniw reported 3344.867 on Jan 6. Last time I measured it was Sept 2, 2016 at 1234 on 3344.865 (Glenn Hauser, OK)
3800	Feb4	1910	R Deprimo med känd musik som Jefferson Airplain och Earth Wind & Fire. (DO)
3925	Feb23	1330	R. Nikkei One, opening weekly American EE lesson at S9+10/20, // 6055 at S9+10 and weaker 9595 at S7-S5. Text is from recent news stories about Trump & Abe, etc. Each expression by OM is explained by YL in Japanese along the way. Recheck at 1358, half-hour show is closing ``until next week``; the American guy is named Jesse. (Glenn Hauser, OK)
3932.2	Feb16	2011	R. Batavia (t)_HOL, olandês/inglês, canções. (Carlos Gonçalves)
3945	Feb23	1329	R. Nikkei Two with conversation in Japanese at S9+10, so I look for its //s on 6115 and 9760, but NO signals there which would certainly be heard if on, as RN1 is propagating on both bands. HFCC shows 6115 stops at 1000 and 9760 at 0800, while the three RN1 frequencies are registered as available, if not used, 24 hours. WRTH 2017 has different scheduling for RN2: Sun-Thu 2300-1400, Fri & Sat 2300-0900 (9760 -0800). So 6115 should have been on until 1400 this Thursday. But Aoki shows 6115 only until 1000 weekdays, 0900 weekends. And 9760 only until 0800 daily. 3945 had no het or CCI from Vanuatu, should it have been on this late. When DXing that, it's important to differentiate it from Nikkei 2, if during hours when its //s are active (Glenn Hauser, OK)
4029	Feb17	1905	Laser Hot Hits, inglês, música pop', texto. (Carlos Gonçalves)
4055	Feb17	1213	Radio Verdad, relig. mx, only fair signal, not nearly as strong as usual. (XM)
4750	Feb21	1251	Bangladesh Betar - HS; well above the norm; propagation favoring BB and not CNR1; 1251-1253 ID and daily "weather forecast" in English; high today 31.2°C, sunrise at 6:27 AM and sunset at 5:56 PM (Ron Howard, Calif., USA)
4750	Feb19	1545	Bangladesh Betar, Shavar English conversation . (AP-DNK)
4750	Feb23	2125	Voice of China, Hailar Chinese ann, Chinese songs. // 4800. (AP-DNK)
4760	Feb14	1509	AIR Port Blair (presumed). Am hearing this daily now with significantly stronger signals than ever heard in the past; nicely above threshold level audio; pop subcontinent music/singing; 1512 distinctive tone, indicating the start of the New Delhi audio feed with commercial announcements, 1515 news in Hindi and 1530 news in English. When they were recently off the air, suspect they made repairs or adjustments to their transmitter or antenna? Signal strength would seem to indicate Port Blair and not Leh (Kashmir). (Ron Howard, Calif., USA)
4765.02	Feb16	0000	Tajik R 1, Yangiyul Tajik ann, Tajik pop songs (AP-DNK)
4774.9	Feb17	2325	R. Tarma, castelhana, noticiário local, QRM de CODAR e do B. (Carlos Gonçalves)
4790	Feb21	-1330*	BBC Uzbek. Poor, but about the best reception I have had here; good propagation, but the usual heavy CODAR QRM; CNR1 jamming extremely faint; a long radio drama; 1330 BBC ID and pips. Not often I can actually make out the ID. My audio at http://goo.gl/TmzlQU (Ron Howard, Calif., USA)

4805			[Non] Radio Difusora do Amazonas, Manaus no recent logs (Wilkner)
4805	Feb16	2205	R. Dif. ^a do Amazonas, Manaus, noticiário regional, CODAR QRM. (Carlos Gonçalves)
4810	Feb12	1731	AIR, Bhopal, EE news. Interference from Armenia. (Méendez)
4810.00	Feb19	1555	Armenian Public R, Noratus, Gavar. Greek talk. AIR Bhopal underneath. (AP-DNK)
4824	Feb4	0027	La Voz de la Selva, Iquitos, only a carrier. (XM)
4835	Feb21	1512	AIR Gangtok, with unusually good propagation; the best reception I have had here since ABC went silent; 1508 with subcontinent music; 1512 switch over to audio feed from New Delhi, starting with tone; singing ads in Hindi; 1515 tone before news in Hindi. My audio at http://goo.gl/BDCirm (Ron Howard, Calif., USA)
4840.00	Feb24	0230	WWCR, Nashville, TN English religious talk. (AP-DNK)
4845	Feb4	0043	Radio Cultura Ondas Tropicais, Manaus, regional mx, poor. (XM)
4850.00	Feb16	0010	Xinjiang PBS, Urumqi Kazakh talk, low mod. // 6015 - QRM 6020 CRI in EE. (AP-DNK)
4865	Feb17	2336	R. Verdes Florestas, Cruz. ^o do Sul AC, recitação do terço, ID e anúncio das freqs., música. (Carlos Gonçalves)
4869.9	Feb23	1239	Pro 1 RRI Wamena, as it's Thursday time to check for "Kang Guru Indonesia." Yes, at 1239 the first "KGI" ID and intro in Bahasa Indonesia, then on to English; KGI is "carried on over 200 stations"; played a few pop songs; segment about rhyming words; "Find a word that rhymes with soldier? . . . shoulder"; segment "Good neighbors make good friends," about the importance of using "Thank you and please" in Australia & Indonesia; about "cultural differences"; better reception than usual, but still less than semi-readable. BTW - RRI Ternate (3344.87) not hear on Feb 23 (Ron Howard, Calif., USA)
4885	Feb23	1415	Echo of Hope - VOH. Daily heard with good reception and never jammed by N. Korea, as their other frequencies are; as usual at 15 minutes after the hour, strong "V O H" ID. (Ron Howard, Calif., USA)
4885	Feb19	1742	Eco de Esperança, Sagangue Hwaesongue, emissão em coreano dirigida à Coreia do Norte, texto, canções. (Carlos Gonçalves)
4885	Feb4		Radio Clube do Para, Belem, M in PT talk, poor to fair. (XM)
4885.03	Feb23	2135	R Clube do Pará, Belém, PA Portuguese conversation. (AP-DNK)
4894.92	Feb25	0654	JBA carrier vs CODAR, so R. Novo Tempo is on now. Also a JBA carrier on its off-frequency circa 2335 UT Feb 25, but no signal at 0113 Feb 26. (Glenn Hauser, OK)
4894.93	Feb24	0216	S8 music vs CODAR; seems romantic pop, not S Asian, and too late for Kurseong, India. But evening bandscans have not been hitting anything here. Must be irregular Brazilian. Or maybe it signs off early, but now an hour later with the end of DST in Brasil. Just music, no announcements to 0224. Recheck 0230, now Brazuguese-intonation announcement, more music. 0257 another try can make out talk, but too weak and too much CODAR, which can't be notched. Aoki shows R. Baré and R. Novo Tempo, but Baré has been gone for years. An official roster of ZY SW stations from last September includes neither, nothing on 4895, nor Novo Tempo on any frequency. WRTH 2017 shows only Novo Tempo, 5 kW from Campo Grande MS, ZYR200. The DSWCI Tropical Bands Monitor compiled this January shows R Novo Tempo, the only 4895 Brazilian, was reported running 24h in seven of the twelve months in 2016, including December. Probably referring to this from Dave Valko: <i>``4894.92 BRAZIL?? R. Novo Tempo?? Found a signal here at 0856. Nowhere near enough for audio, but did find R. Novo Tempo on the exact same freq using Artur Nogueiras SDR.hu web rx. Nice ID at 0901. (Valko 24 Dec.)``</i> . Note the close match to my frequency offset. This station is religious, but maybe low-key, like Alcaraván. Without being able to make out the lyrics, could not be sure the ``romantic`` sounding songs were not really about being in love with Jesus. Here`s info about the relatively new station and its target audience, not admitting to being sporadic on onda tropical: http://novotempo.com/campogrande/a-radio/ (Glenn Hauser, OK)
4895	Feb20	2235	R. Novo Tempo, Cp. ^o Grande MS, canções. (Carlos Gonçalves)
4895	Feb24	0225	AIR Kurseong. 0245 musical interlude and English news. (AP-DNK)
4900	Feb18	1456	VOS (Minnan language service), still remains here with fair reception. Hard to tell if this will turn out to be just a temporary move from ex: 6115? (Ron Howard, Calif., USA)
4900	Feb25	-1545*	Korean Numbers Station V24, 1531-1545*, on Feb 25. Mixing with Voice of Strait (China) also on frequency; started out with both stations with singing; at 1535, V24 went to numbers in Korean; both equal strength. My audio at http://goo.gl/PdOxaY . Full monitoring history of V24 and current info is posted at http://goo.gl/80GQFu , which is maintained thanks to Hiroyuki Komatsubara (Ron Howard, Calif., dxldyg via DXLD)
4905	Feb20	2238	Nova R. Relógio, Rio de Jan. ^o RJ, texto, QRM da CHN. (Carlos Gonçalves)
4910	Feb12	1730	AIR, Jaipur, English, news. (Méendez)
4920	Feb12	1156	WHRI (sub-harmonic of 9840) Found w/big OC at 1156. 1159 M w/ID and QTH over usual theme mx, 1200 Bro. Stair theme song, but then sounded like it went into a different pgm. //9840 of course. A Youtube video of the reception can be found using this link https://youtu.be/rGfxfyX-p54 (Valko)

4920	Feb12	1716	AIR, Chennai, Hindi songs, at 1730 English news. Interference from China. (Méndez)
4925.2	Feb16	2202	R. Educação Rural, Tefé AM, noticiário nacional A Voz do Brasil. (Carlos Gonçalves)
4925.2	Feb15	2250	Radio Educação Rural, Tefé, AM om and yl with chat, fair signal strength (Wilkner)
4940	Feb17	1208	V of the Strait, CH nx and cmntry by W, poor but seems to be one of the few still around in the morning. (XM)
4940	Feb18	1500	Voice of Strait. Saturday only English program "Focus on China"; a filler (anomaly) program; not their standard news format at all; audio from the CCTV documentary "A Bite of China," segment "Inspiration for Change," about making tofu, rice wine and soy sauce; one continuous announcer (native speaker of English); no breaks for IDs; 1530 ID in English - "This is the Voice of Taiwan Strait News Radio"; mostly readable. Believe some of the VOS staff must still be out on holiday, or would assume they would have had their normal Saturday news format. (Ron Howard, Calif., USA)
4949.74	Feb16	0015	R Nacional de Angola, Mulenvos. Portuguese ann, Afropop songs CWQRM (AP-DNK)
4949.74	Feb22	0303	R. Nacional de Angola, on Feb 22, noted off the air. Feb 23, back on the air again; 0303 and subsequent checking; almost fair, on a day with overall very good African propagation; pop African songs and good number of clear IDs (Ron Howard, Calif., USA)
4949.8	Feb15	2300	Radio Nacional de Angola weak with some audio, music deep fades. (Wilkner)
4955	Feb17	2330	R. Cultural Amauta, Huanta, castelhao, anúncios comerc., informações várias, música. (Carlos Gonçalves)
4965.02	Feb23	2145	Voice of Hope, Lusaka. English ann, hymn by choir. // 6065 QRM CNR2. (AP-DNK)
4970.03	Feb16	*0023-	AIR I/S, Vande Mataram hymn, talk, 0035 English news (// 5010) CWQRM (AP-DNK)
4985.02	Feb23	2150	R Brasil Central, Goiânia, GO Portuguese ann, Brazilian song. // 11815, QRM Riyadh 11820. (AP-DNK)
4990	Feb17	1402	PBS Hunan. Better than normal reception; "ni hao," the standard Chinese phone greeting; many on air calls. (Ron Howard, Calif., USA)
4990	Feb25	0723	JBA carrier, presumed R. Apintie, which is still reported from time to time, and nothing else would be on 4990 overnight. I remain hopeful for hearing it identifiably sometime (Glenn Hauser, OK)
5008.3	Feb18	0241	R. Madasikara. Found way down on this freq at 0241 w/Afro Pop mx. 0245 M anncr. 0247 song sounded like a remake of "Last Friday Night" by Katy Perry. Usually wobbly signal. Dropped down below 5008 briefly at 0247, and down to 5008.1 when next song started at 0355. So the freq drops every time there's a change in audio (song to song, annmt to song, etc.). 0300 ment of Madagascar but couldn't tell if it was an ID. Had to notch out the Rebelde mixing product on 5010. (Valko)
5010.78v	Feb14	1519	R. Madagasikara. After being off the air here for a month (or more?), they are back; best in USB due to AIR on 5010.0; respectable signal; about the best reception I have had here; some type of noise QRM, or would have had even better reception; pop African music/singing and announcers; noted slight drifting. My local sunrise at 1456 UT, while Antananarivo sunset was at 1526 UT. Am IDing on basis of language and music heard, plus drifting frequency, but no positive R. Madagasikara ID heard, so is still presumed. Very nice to have this one back again! (Ron Howard, Calif., USA)
5011.27	Feb17	0249	JBA carrier varying as I listen, in much stronger sideband of the 5010 Cuban leapfrog spur. Another thing I wanted to check tonight, since Ron Howard was hearing R. Madagasikara <i>``Feb 15 on 5011.28v, at 0239, with announcer``; he first heard it reactivated by long path: ``5010.78v, R. Madagasikara, 1518-1532, Feb 14. After being off the air here for a month (or more?)``</i> . No doubt that's it, yet all I have to go on is the almost exact frequency match with Ron's log, as it will be tough to separate any audio here as long as Cuba is on 5010, but all it will take is for 5025 or 5040 to be missing to get rid of 5010 too. During previous activity, Madagascar would vary well below 5010, and was always unstable (Glenn Hauser, OK)
5011.3v	Feb15	0210	R. Madasikara. Was watching from 0210 and it didn't come on by 0232 t/out. But upon recheck at 0243, found it here playing pleasant choral mx. 0253 went into Dance Pop mx. 0257 bubbly W anncr, back to mx. 0259 took a quick dive down to 5011.0 but then came back up. Notched out the QRM from 5010.01 Rebelde mixing product. (Valko)
5020	Feb17	1157	SIBC, usual xmsn ending rel. inspirational segment. 1200 instru. mx and canned EG voice-over closing ID annmt by W "You've been listening to the Solomon Islands Broadcasting Corporation, R. Happy Isles. We have been transmitting on 1035 kilohertz in the medium-wave band and the shortwave frequency of 5020 kHz, and 9545 kHz in the 60 and 31 meterbands. We're now closing down for today but we resume transmissions tomorrow morning at 6 o'clock. So until then, from all of us at SIBC, goodnight everyone", instru. NA, and signal off at 1202:16. Despite Rebelde, this was the most readable signal in a long time. (Valko)
5020	Feb10	1415	Wantok FM (via SIBC). Presumed Wantok FM with segued pop/reggae/ballads..if the DJ spoke at all, i missed it..still nice to know they're occ. running late. (Dan Sheedy)

5020	Feb5	1207	SIBC Honaira, slightly above threshold level. Radio Rebelde was on 5025 but powered down considerably so not causing any QRM. Had a carrier on 9545 which I presume was //5020. (XM)
5020	Feb19	1407	Music at S4-S6, so SIBC must be on late again, perhaps simulcasting Wantok FM. Ron Howard reported yesterday they were extending past 1200* again but not daily; on Feb 18 he says they ended modulation at 1314, dead air past 1608! (Glenn Hauser, OK)
5020	Feb21	1244	Wantok FM relay, via SIBC. Yes, with yet another day of a long, extended broadcast; 1244, till past 1518; strong signal during unique propagation; good reception at times; pop songs (Bette Midler - "From a Distance [God Is Watching Us]," etc.); short IDs - "Listen non-stop, non-stop, 96.3," "This is Wantok FM 96.3. Good times, great music" and "Listen to the hottest sounds . . . with the hottest DJs, 96.3." My edited audio of a few IDs attached (Ron Howard, Calif., USA) (<i>Excellent recording and signal level - far from what we usually get here. /TN</i>)
5020	Feb23	1309	Wantok FM relay, via SIBC. Yet another day of extended broadcasting (now daily?); non-stop songs (Lionel Richie - "Stuck on you," Men At Work - "Who can it be now?," etc.); frequent brief IDs; not as strong as yesterday; still on at 1410. Yesterday, Yoshiyuki Ohashi (formerly active in SWL as "Peace-J") was also hearing this at 1321, with nice reception in Japan. Wantok FM 96.3, was established in 1999, as a part of SIBC, to attract a younger audience - http://goo.gl/TLliig (Ron Howard, Calif., USA)
5025	Feb4	1220	Radio Rebelde, powered down to point where almost unintelligible but definitely // 1180. Lately this seems to be off or running very low power. (XM)
5025.00	Feb24	0220	R Rebelde, Bauta. Conversation about sports on Cuba, lively Cuban music. (AP-DNK)
5035	Feb16	2208	R.Aparecida, Aparecida SP, canções no âmbito do prgr. Com A Mãe Aparecida, modulação muito fraca. (Carlos Gonçalves)
5040	Feb12	1731	AIR, Jeypore, English news. (Méndez)
5085.00	Feb24	0210	WTWW, Lebanon, TN English religious talk, song. (AP-DNK)
5825	Feb22	2250	R. Triunfal Evangelica. 2250-2356 UTC. Espacio de música alteza evangélica i.e: Duo Sal-Bienaventurados. A las 2300 hasta las 2320 predicación y luego otro espacio musical. A las 2350, aviso y despedida, luego ¿Canción? ¿Gong de despedida?. Se adjunta un video correspondiente a las 2338 UTC: https://www.youtube.com/watch?v=PtXOIS1j0aw (Claudio Galaz, Ovalle, Chile via Lista ConDig)
5835	Feb4	1600	R Evropa med rysk musik som Kino och Coy Viktor. (DO)
5850	Feb13	0332	(RMI) // 7490 (WBCQ) // 7570 (RMI) // 7730 (RMI). Strange anomaly on all frequencies; heard two different Brother Stair programs simultaneously; two different audio feeds at the same audio level. He is normally bizarre, but to actually hear two different programs at the same time almost sounded like he was arguing with himself, hi (Ron Howard, Calif., USA)
5875	Feb17	1114	R.T. End of VT pgm at 1114. Usual bells IS, M in EG w/ID and lang. pgm anmnt, and several more reps of the bells IS. Good signal. (Valko)
5895.00	Feb13	*1600-	Bergen Kringkaster, Erdal Norwegian ann World Radio Day programme, but heavily disturbed by BBC World Service via Toshkent (AP-DNK)
5910	Jan29	0130	Alcaravan Radio, Puerto Lleras, brief ancmnts, very strong signal, tnx RLW. (XM)
5910	Feb19	0707	Alcaraván Radio, Puerto Lleras, religious comments by Martin Stendal, Latin American songs, id. "Alcaraván Radio". (Méndez)
5910.18	Feb17	1012	R. Alcaravan First time hrd in a while and way off freq. 1012 rel. pgm w/M host in SP w/ments of corazon, Santa Cruz, Colombia, gloria de dios, la voz del pueblo, la palabra, and many Cristiano. Into soft vcl song at 1014, then M host returned. Really faded badly, almost complete f/out, but came back up at 1027. Pgm finally ended at 1043 w/outro, studio M annr giving TC twice, then into lively LA tropical mx. Went off the air suddenly in mid-song at 1111:30. (Valko)
5910.25	Feb24	0234	Alcaraván Radio, Puerto Lleras has distanced itself further from Romania, but hardly enough. Even with signal level rivaling fading RRI, quite a wavering het. However, I can notch that out and narrow the bandwidth. No ACI problem from 5915 Zambia with its tone at 0240. Still unpleasant for music, especially when RRI is also musical. Recheck at 0300, now HJDH in the clear with RRI finished, and remeasured at 5910.23, as it does drift, S9 with another brief interruption by ``running water`` ute (Glenn Hauser, OK)
5915	Feb15	0305	ZNBC/R. One, leaving Madagascar came up here to find it totally in the clear as Romania had signed off, and still no sign of 5920 WHRI. Fair signal w/M hosting African Pops. (Valko)
5915	Feb21	1905	ZNBC-Radio 1, Lusaka, líng. local, texto, cânticos, QRM adjacente. (Carlos Gonçalves)
5915	Feb23	0458	ZNBC/Radio One. In English; promo for the "Zambia Bureau of Standards"; music & call of fish eagle; "One Zambia, one nation"; news & sports ("Bank of Zambia projects a 3.9% economic growth rate this year," etc.); 0515 weather and repeat promo for the "Zambia Bureau of Standards"; 0517 into vernacular; no "load shedding" today, unlike yesterdays closing down at sunrise (Ron Howard, Calif., USA)

5935	Feb23	1330	Shiokaze/Sea Breeze via Yamata (Japan), with Thursday English. Intro to the repeated half hour show that just aired; N. Korean jamming; both totally blocking reception of Tibet (PBS Xizang) (Ron Howard, Calif., USA)
5939.7	Feb16	2211	R. Voz Missionária, Camboriú SC, propag. relig. (Carlos Gonçalves)
5939.98	Feb19	0810	Voz Missionaria, Camboriú, religious comments. (Méndez)
5950	Feb16	1740	Voice of the Tigray Revolution, Addis Ababa, Vernacular comments. (Méndez)
5950	Feb21	1840	Voz da Revolução do Tigrê, Geja Dera (ou Geja Jawe?), líng. local, texto, canções do chamado Corno de África // 1350 Mekele. (Carlos Gonçalves)
5952.5	Feb16	2213	R.Pío XII, Siglo XX, castelhano, texto. (Carlos Gonçalves)
5960	Feb13	2254	Voice of Turkey first in Turkish with a woman with closing announcements and into IS then a brief OC at 2256 and into the English service IS and ID loop to time pips at 2300 and a man with opening announcements and sked and satellite and web info and into a man with news at 2302 – Very Good – This one has been missing for a few days. (Coady-ON)
5985	Feb22	1545	Myanmar Radio with "VOA American Stories, Learning English," with a dramatic presentation of the story "A Princess of Mars," by Edgar Rice Burroughs. Transcript and audio streaming at http://goo.gl/nxM1DU (Ron Howard, Calif., USA)
5995	Feb19	0718	Radio Mali, Bamako, French, comments. (Méndez)
6010	Feb19	0715	La Voz de tu Conciencia, Puerto Lleras, religious comments. Very weak. (Méndez)
6015	Feb23	0340	ZBC Radio. Normal format at this time; brief chanting and mention of "Zanzibar"; almost fair; better than usual (Ron Howard, Calif., USA)
6030	Feb14	1327	CFVP Calgary relaying CKMX (AM 1060). Nice surprise to catch this 100 watt station doing so well against the much stronger CNR1; ID of comic "Tom Ryan," who commented on seminars that claim you can "make \$100k part time" - "If I was making \$100k part time, I would work full time"; with a lot canned laughter; 1330 mention of "Calgary." Not often I get to hear this low powered station! (Ron Howard, Calif., USA)
6030	Feb21	1311	AIR Delhi (Kingsway - 250 kW). Unique propagation here at this time preiod, as normally would have CNR1 mixing with Calgary (CFVP), not AIR; subcontinent music and announcer in Hindi; underneath China (Ron Howard, Calif., USA)
6030.02	Feb13	0005	Thazin R, Pyin U Lwin Bamar talk QRM from 6025, best in USB (AP-DNK)
6040.7	Feb16	2216	R. B2, Curitiba PR, retransm. da R.Aparecida c/ o prgr. Com A Mãe Aparecida. (Carlos Gonçalves)
6050.00	Feb15	2345	Xizang PBS, Lhasa, Tibet Chinese news read by man and woman about Shanghai 45434 // 4820, 5935, 7240 (AP-DNK)
6050	Feb22	1503	Salam FM. Islamic programming (reciting from the Qur'an, etc.); in vernacular; many singing IDs; 1518 ID with "shortwave" and "FM" frequencies; still on the air at 1524; fair-good, with light QRM from Tibet (Ron Howard, Calif., USA)
6070.00	Feb13	*1700-	SDXF, via Rohrbach Swedish programme about the World Radio Day, heavily covered by CRI, Xian, in Russian (AP-DNK)
6070	Feb15	2300	CFRX Toronto favourite station, early discussion of Canadian bacon. (Wilkner)
6070	Feb19	*1500-	Swedish DX Federation, Rohrbach, Identification in English, "Welcome to a program to the Swedish DX Federation, this transmission is to celebrate today is the World Radio Day, ... transmission mainly in Swedish...", comments in Swedish, pop music, at 1543 English , reading reception reports from listeners. "Mailbox to listener letters". (Méndez)
6070	Feb16	2220	CFRB via CFRX, ambas de Toronto ON, inglês, discussão sobre política norte-americana. (Carlos Gonçalves)
6080	Feb16	2218	R.Marumby, Curitiba PR, noticiário nacional A Voz do Brasil, QRM no mesmo canal. (Carlos Gonçalves)
6085	Feb19	1652	Radio Mi Amigo, Kall Krekel, 1652-1830, Feb19 and 0730-0810, Feb20, commencing transmission earlier and closing later than the habitual time 0800-1700, pop music, identification, English, comments. I have sent an email to the station asking about the extended time and here is the replay: <i>"Hello Manuel, at the moment we are testing a bit outside our normal time, as we like to see, if we could extend our broadcast time on SW from starting into "Summertime". We will let you know on our Homepage and on Facebook. kind regards, Cpt. Kord"</i> (Méndez)
6090	Feb3b2	2245	R. Bandeirantes, São Paulo SP, texto, QRM de AIA e outro. (Carlos Gonçalves)
6110	Feb19	1711	Radio Fana, Addis Ababa, East African songs. (Méndez)
6110	Feb21	1842	R. Fana, Geja Dera (ou Geja Jawe?), líng. local, canções do Corno de África, música pop' local. (Carlos Gonçalves)
6115	Feb19	1800	Radio Congo, Brazzaville, French, news, comments. (Méndez)
6115	Feb21	1903	R. Congo, Brazzaville, música pop' africana, QRM adjacente. Pelas 1920, o sinal já tinha desaparecido. (Carlos Gonçalves)
6130.00	Feb12	1535	Xizang PBS, Lhasa, Tibet Tibetan talk and local flute, 1558 song and closing ann, 1600 English ID "Holy Tibet" (AP-DNK)

6134.86	Feb15	2315	Radio Santa Cruz in lsb to avoid the Brasil. (Wilkner)
6135	Feb23	1349	Voice of Freedom. Normally blocked by strong white noise jamming from N. Korea, but found VOF cutting through the jamming fairly well at 1349, with a radio drama in Korean; so today's propagation favored the south rather than the north. BTW - the KBS station on 6015, was also well heard through the white noise jamming (Ron Howard, Calif., USA)
6135.1			Radio Aparecida, Aparecida, 0727-0744, Feb19, Portuguese, religious songs and comments, id. "Radio Aparecida". 14321. (Méndez)
6135.17	Feb15	2320	Radio Aparecida, Aparecida, SP om and yl, weak signal in usb. (Wilkner)
6135.2	Feb16	2226	R. Aparecida, Aparecida SP, prgr. Com A Mãe Aparecida. (Carlos Gonçalves)
6159.96	Feb13	0251	CKZN. Above normal reception, with still no sign of Vancouver (CKZU); blues music show; 0259 "This is CBC Radio One, 89.5 FM, from Happy Valley, Goose Bay"; news about evacuations at Calif. dam, etc.; 0304 first Newfoundland weather, then for Labrador; still well heard at 0329 (Ron Howard, Calif., USA)
6160	Feb5	1117	CKZN St. John's, w/ mx and cmntry, very poor. With commercial cod fishing still not permitted in the Grand Banks I wonder how much longer this one can last. I think its primary purpose was to serve the fishing fleet. (XM)
6160	Feb15	2302	CKZN St Johns "from six to eight thirty ...on Facebook... This is CBC News" very good signal. (Wilkner)
6160	Feb16	2230	CKZN, São João da Terra Nova, inglês, prgr. As It Happens, que poderíamos traduzir por À Medida que Acontece. (Carlos Gonçalves)
6165	Feb13	0015	Thazin R, Pyin U Lwin Chin ann by man and woman, local pop songs (AP-DNK)
6180	Feb20	-0625*	Deutscher Wetterdienst, Pinneberg, weather report. Radio Nacional da Amazonia out of air. (Méndez)
6180	Feb25	2256	Not audible here, but VG on 11780; at 2315, RNA/RNB with jazz, audible very poorly on 6180 and // much better 11780. Now how about the parasitic spurblob heard yesterday? Yes! Here it is again, roughly 6144-6157, with the same beat as on 11780. Try the FM mode? No good that way either. 2317 announcement with matching peaks and pauses. 2348, the blob field has drifted to 6142-6152, peaking about 6147, S9+40. Oh oh, this is totally blocking 6145, The Mighty KBC from 0000. Walt Salmaniw, Victoria BC, replies, ``Ouch! Completely blocking the signal, although occasionally I can hear the Mighty KBC, so it might have been a decent evening into WCNA. 73, Walt`` Chuck Albertson in Seattle says, ``Yech! It's still there (0230Z) - I thought it was my neighbor's flat-screen TV. Chuck``. Yes, very similar blobs do emanate from some of my local devices. 6121, Feb 25 at 2317, approx. center of a weaker blob making the same sound, just above 6115 WWCR. By 2348, blob has become audible in the lower but not upper sideband of WWCR. (Glenn Hauser, OK)
6195	Feb13	2108	VOA // 15580 (via Greenville, NC) with a woman presenting hip-hop music – Fair in peaks and noisy Feb 13 (Coady-ON)
6195	Feb12	1200	Shortwave Zero Zero stängde efter ha spelat Beatles. (DO)
6319	Feb17	1710	R 319 spelade Tony Blackburn och ABBA i programmet. (DO)
6321	Feb18	1345	R Cochiguaz med härlig LA-musik med El Condor Pasa. (DO)
6375	Feb12	1215	Time R med 60-tals musik som Procule Harum och The Kinks. (DO)
6941.0U	Feb13	0032	Strong S9+25 pirate with bluegrass/gospel tune ``Circle Be Unbroken``; 0040 announcement as the Al Fansome Memorial Radio Show, since Al has lost his battle; then ``Amazing Grace`` by Evil Elvis. 0049 DJ is talking about Fansome being sympathetic to gay rights along with his life partner Jay Smilkstein; reading from obit: he was 89, died in Pittsboro, was bureaucrat at Foundation for Utter Slobbery, for 32 years. Enjoyed watching farm animals at the canal (corral?). Burial service at The Bog. 0051 news sounder turns into another song. 0055 intro Al's favorite song to close out the show, and off at 0059* with no further announcement or ID. Many other logs of it here: https://www.hfunderground.com/board/index.php/topic.32849.0.html some as Radio Bob, some as Radio Roast, and some that it was an old show from something else (Glenn Hauser, OK)
7120	Feb21	1843	R.Hargueisa, Hargueisa, Somalilândia, líng. aparentada c/ o árabe, texto, QRM esporádica, de radioamadores. Dado que passo estes relatos ao Glenn Hauser, e ele os reproduz no grupo DXLD yg e usa no seu boletim DXLD, é admissível que muitos não falantes de português estranhem certos nomes estrangeiros grafados de forma não habitual...; ora, no caso particular de "Hargueisa", o -u- é mesmo necessário, caso contrário, ler-se-ia -geisa e não -gueisa. (Carlos Gonçalves)
7215	Feb13	1413	KBS World Radio. In English; about online ad campaign in India; fair (Ron Howard, Calif., USA)

7235.45v	Feb13	0400	Voice of Peace & Democracy (presumed). Open carrier, but no audio till about 0417, when heard HOA singing and announcer till 0431*; poor reception, with low modulation; 0415 at 7235.66v; at 0425 on 7235.77v (Ron Howard, Calif., USA)
7300	Feb17	1002	CNR1 pres. jammer nx by W in CH w/actualities and occas. breaks, //9500. Getting an echo here and on the Pardino Brazil web rx, so guess there are 2 xmtrs on the freq. Hrd another weak stn underneath presumably stn it was jamming. Don't see a listing for this freq. (Valko)
7310	Feb13	2127	RRI // 6170 and 7375 with IS to 2130 and opening waltz music and a man with ID and internet platforms and into "Radio Newsreel" and a woman with program highlights and into a man with news – Good. (Coady-ON)
7355	Feb22	1300	R. NZi, Rangitaiki, inglês, noticiário, ... boletim meteorológico, às 1510, quando o sinal já era muito melhor, apesar da QRM adjacente. (Carlos Gonçalves)
7505v	Feb23	0424	WRNO. In Chinese, with "Praise for Today," already in progress; poor-fair (Ron Howard, Calif., USA)
9445	Feb13	2208	AIR with a woman with news then "That is the end of our news program from All India Radio" and into "Economic Review" at 2210 – Good. CoadyON
9515	Feb19	2201	R. Marumby, Curitiba PR, propag. relig. "temperada" c/ canções a condizer. (Carlos Gonçalves)
9575	Feb9	1226	Sound of Hope with cmntry in CH, jammed by Firedrake, fair to almost good. (XM)
9575	Feb17	1247	CNR1 echo jamming of AIR, via Bengaluru, in Tibetan; scheduled 1215-1330 (Ron Howard, Calif., USA)
9630	Feb18	1058	R. Aparecida, Aparecida SP, texto, QRM adjacente. (Carlos Gonçalves)
9635	Feb19	*0759-	Radio Mali, Bamako, tuning music, French, id. "Içi Radio Mali emettant du Bamako ...", French, comments. (Méndez)
9635	Feb17	1305	R. Mali, Kati, texto (noticiário?), mas quase nenhum áudio. (Carlos Gonçalves)
9635	Feb18	1055	R. Voz do Vietname, Son Tay, vietnamita, texto, música, canções. (Carlos Gonçalves)
9650	Feb17	0945	R. Guinee long phoned-in report by M journalist in FR to 0951 w/annoying double 'beeps' every 3 seconds. Studio M anncr, then another report w/beeps again. 1000 fanfare then canned ToH ID anmnt w/several IDs by M, and M w/nx. Don't usually hear Guinea at this time as it fades earlier. Pres. North Korea underneath. (Valko)
9650	Feb19	0835	Radio Guinea, Conakry, African songs, French, comments, id. "Radio Guinée". (Méndez)
9650	Feb17	1225	R. Guinée, Sonfonia, francês, canções locais, noticiário das 1300. (Carlos Gonçalves)
9664.9	Feb17	1909	R. Voz Missionária, Camboriú SC, texto, canções. (Carlos Gonçalves)
9674.8			Radio Canção Nova, Cachoeira Paulista, 2105-2112, Feb18, Portuguese, religious comments and songs. 14321. (Méndez)
9674.9	Feb18	2239	R. Canção Nova, Cachoeira Paulista SP, noticiário, QRM adjacente. (Carlos Gonçalves)
9700	Feb22	-1258*	R.NZi, Rangitaiki, inglês, noticiário, ..., canções, ..., noticiário das 1200, ... entrevistas, sinal de ID e fecho. (Carlos Gonçalves)
9724.9	Feb21	1916	R. B2, Curitiba PR, canções folclóricas, QRM adjacente. (Carlos Gonçalves)
9819.1	Feb17	1911	R. 9 de Julho, São Paulo SP, canções, QRM adjacente. (Carlos Gonçalves)
9829.00	Feb12	1240	China Business R, Baoji Chinese entertainment with pop music. // 9775, 11740. (AP-DNK)
9835	Feb18	1056	Sarawak FM via RTM, Kajangue, oração corânica, ..., idem, logo após as 1200, canções, noticiário das 1300. (Carlos Gonçalves)
11580	Feb13	2041	AWR with Jeff White hosting "Wavescan" talking about how some SWLs hang their QSLs with string followed by "The Japanese DX Report" – Very Good. (Coady-ON)
11580	Feb13	2100	Radio Slovakia International with "Slovakia Today" starting with a man with "RSI News" then "Topical Issue" at 2102 – Very Good. (Coady-ON)
11610	Feb13	2103	World Christian Broadcasting (KNLS) in Mandarin with English pop Christian vocals and a man with talk – Very Good. (Coady-ON)
11680.00	Feb12	1230	KCBS, Kanggye Korean interview // 9665 (AP-DNK)
11735	Feb13	2025	ZBC Radio in Swahili with lively East African vocals to 2042 and a man with talk and a telephone interview – Good. (Coady-ON)
11735	Feb17	1913	R. Transmundial, St. ^a M. ^a RS, canções, QRM da TZA. (Carlos Gonçalves)
11764.7	Feb17	1915	SRDA, Curitiba PR, canções, áudio distorcido e c/ problemas. Situação regularizada, em 18/2. (Carlos Gonçalves)
11780	Feb11	1015	Radio Nacional da Amazonia, Brasília, comments. (Méndez)
11790	Feb13	2229	World Christian Broadcasting (KNLS) in Egyptian Arabic with a man and woman with talk and into a radio drama at 2230 – Very Good. (Coady-ON)
11810	Feb13	2119	BBC // 12095 with a woman interviewing a Black American male civil rights activist about discrimination and racial profiling in the U.S. – Very Good. (Coady-ON)
11815	Feb18	1305	R. Brasil Central, Goiânia GO, texto. (Carlos Gonçalves)
11860	Feb17	1430	Radio Sana'a in Arabic with lively male vocals and into Middle Eastern string instrumentals at 1436 – Fair to Good in peaks. (Coady-ON)
11854.9	Feb17	1946	R. Aparecida, Aparecida SP, canções, 9. ^a Romaria Nacional do Terço dos Homens, QRM

			adjacente. (Carlos Gonçalves)
11868.4	Feb15	2106	MWV Finally figured out who this is. It's a spur of 11610 Madagascar World Voice. Also noted the spur below on 11351.6 as well. Hrd w/CH rel. pgming from 2106-2143. Fundamental 11610 is quite good here. (Valko)
11895.1	Feb19	1956	R. Boa Vontade, Pt.º Alegre RS, propag. relig, anúncios vários, Terço do Pai Nosso, música legionária, QRM adjacente. (Carlos Gonçalves)
11925	Feb16	2232	R. Bandeirantes, São Paulo SP, relato de jogo de futebol Palmeiras x São Bernardo (t), QRM no mesmo canal. Habitualmente, em 11925,2. (Carlos Gonçalves)
11934.8	Feb18	2234	R. B2, Curitiba PR, retransm. da R.Aparecida, prgr. de dedicatórias musicais, QRM adjacente. (Carlos Gonçalves)
12035	Feb17	1356	Voice of Turkey with lively Turkish vocals to closing announcements at 1421 and into IS – Very Good with slight fading. (Coady-ON)
13765	Feb17	1446	Radio Farda (via Lampertheim) in Farsi with a man with a telephone interview of a woman then a "Radio Farda" ID at 1450 – Fair to Good in peaks. (Coady-ON)
13800	Feb17	1543	Puntland Radio presumed the one in Somali with a man with a telephone interview of another man with many mentions of "Somalia" and a possible mention of "Puntland" just as Radio Tamazuj was signing on via Madagascar at 1459 – Fair.– This is the first time I have noted this one as Radio Tamazuj via Nauen or Madagascar is often covering it up. (Coady-ON)
15190	Feb19	0915	Radio Inconfidencia, Belo Horizonte, Brazilian songs, comments, program "Trem Caipira", id. Inconfidencia, "6 y 17". (Méndez)
15190	Feb16	2235	R. Inconfidência, Belo Horizonte MG, prgr. de futebol. (Carlos Gonçalves)

Log from 0130 UT at Colombo Sri Lanka remote SDR post on Victor's installation 4S7VK, as well as SDR unit in Florida east coast North America til 0350 UT.

4010.219	Birinchi Radio (=First R), Krasnaya Rechka (= Red River), Bishkek, S=6 at 0155 UT on Febr 25.
4759.998	Not strong, S=4-5, so not local Port Blair Andamanes signal heard in Colombo Sri Lanka, or only exciter signal ? Rather Co-channel R Kashmir, Leh (Laddakh), Jammu and Kashmir, 0212 UT.
4799.9945	AIR Hyderabad, Telengana, Hindi sce, S=9+15, at 0159 UT.
4809.997	AIR Bhopal, Madhya Pradesh, female Hindi sce presenter, S=9+15dB signal at 0200 UT on Febr 25.
4834.999	AIR Gangtok, Sikkim, weak S=5-6 signal, female subcontinental music singer, at 0202 UT.
4862.308	4862.308 ... x.328 Heard Unknown Urdu Kashmiri program, little audio distorted, from Pakistan or India Kingsway origin ?
4894.994	AIR Kurseong, Paschim Banga, Hindi sce female presenter, tiny S=5 signal at 0203 UT on Febr 25.
4896	Odd 4896 kHz ends early at exact 1700 UT: AIR Kurseong, Paschim Banga
4910.002	AIR Jaipur, Rajasthan, Hindi sce, fluttery S=5-6
4910.002	AIR Jaipur, Rajasthan, poor S=6 signal at 0204 UT.
4919.9985	AIR Chennai, Tamil Nadu, powerhouse S=9+40dB at 0152 UT. Tamil newscast in int. politics items ...
4949.727	R Nac Mulenvos, S=5 in Sri Lanka at 0151 UT, and at 0347 UT in Florida-USA as S=5-6.
4970.014	AIR Shillong, Mawgrong, Meghalaya, NoEaSce, tiny S=5-6
5009.994	noted AIR Thiruvananthapuram at 0140 UT on Febr 25, on remote SDR at Victor's place at Colombo Sri Lanka installation.
5013.485	heard Malagasy again on approx. 5013.485 ... 5013.640 kHz wandered up 1600-1720 UT.
5040.0	AIR Jeypore, Odisha, Hindi sce, very strong signal in remote SDR unit in Colombo Sri Lanka, S=9+25dB at 0148 UT on Febr 25.
5049.999	AIR Aizawl, Mizoram, Hindi service S=7 at 0145 UT Febr 25.
5059.983	PBS Xinjiang in Chinese from Urumqi site, S=6-7 at 0143 UT
5914.988	Myanma Radio, Naypyidaw, minorities progr, S=7 signal at fade-out morning time in Sri Lanka remote post. Hit by lower level co-channel CRI Russian sce from Kashgar western China even 5915 kHz.
6129.974	R Nationale Lao, Vientiane, in Lao language sce, S=6 signal at fade-out morning time in Sri Lanka remote post. QRM by co-channel 6130 Xizang PBS, Lhasa, western China in Tibetan language.
6164.996	Myanma Radio, Thazin R, Pyin U Lwin, in Kachin minorities program, female news reader still on air at 0212 UT Febr 25. DBC list show 0130 UT cl-down ?
7269.997	AIR Chennai, Tamil Nadu, Tamil morning sce, but English language newscast heard at 0214 UT on Febr 25, powerhouse signal of S=9+35dB strength. "... nx on financial Aid of Republic of India to poor Bangladesh ..."

Log of remote SDR rx in central Florida east coast of North America: All Brazilian radio stations in 25 and 31 mb came-in in Florida remote SDR RATHER POOR propagation wise tonight Febr 25 !

5010.008	RHC S=7-8 signal strength in Florida-US remote SDR installation. Noted Spanish language program of RHC Bauta fundamental 5040 kHz, latter which is S=9+40dB at 0350 UT on Febr 25. (5010 and 5055 kHz CUB two intermodulation spurs of Bauta transmission center site)
5054.998	RHC little weaker Bauta intermodulation, like S=7 or -79dBm, Spanish program of Radio Rebelde, funda-

mental basic on 5025 kHz, latter S=9+30dB signal strength at 0352 UT on Febr 25.
(5010 and 5055 kHz CUB two intermodulation spurs of Bauta transmission center site)

7504.959 WRNO S=9+10 signal into Florida US east coast location SDR, at 0306 UT on Febr 25, sermon in English, religious program.

9265 New testament prayer talk by pastor, WINB Red Lion ?, S=9+10dB in remote Florida SDR installation, at 0302 UT on Febr 25.

9329.940 USA ... x.980 kHz VERY UNSTABLE FQ-wise SIGNAL. Frequency hops 20 ... 30 Hertz either side... S=9+10dB signal into central Florida SDR installation on east coast North America. English sermon BS? TOM?, anmt of South Carolina little ranch ministry installation, program to be relayed via many radio stations, phone-# given, website address URL read at 02.58:10 UT on Febr 25. 0259 UT religious most modern song played. Upper sideband side signal. AT 03.00:04 UT for 3 seconds insert the WBCQ station anmt, 6.6 kHz wide signal on upper sideband flank of the channel.

9410.0 BBC English service from Oman Middle East relay site at fade-out path, came in by S=8-9 signal at 0255 UT in Florida-USA.

9420.005 Voice of Greece from Avlis GRC on 9420.005 and 9935.003 kHz, both S=9+20dB signal at Florida remote at 0230 UT on Febr 25. Talk by male and female, followed by Greek folk music program from 0232 UT on Febr 25. Excellent audio quality on shortwave these days from Avlis engineering.

9490 Radio Republica in Spanish via TDF Issoudun, S=9+30dB proper signal. Broad 9 kHz wide audio modulation. Female Spanish voices talk on religion, ... systema totalitera and state control ..., at 0251 UT on Febr 25.

9570 Remote SDR signal in Florida-USA, CRI Cerrik Albania Chinese language relay at S=9+35dB signal level, 20 kHz wideband signal. 0248 UT.

9650.006 Voice of Turkey, TRT Emirler in Spanish language to Latin America target, S=9+20dB proper signal, Turkish mx played at 0241 UT on Febr 25.

9714.920 BSKSA Riyadh's morning HQ prayer in Arabic, non-directional Middle East sce outlet, tiny S=7 at 0238 UT.

9935.003 Greece and \ 9420.005 GRC remote SDR signal in Florida-US on North American east coast Voice of Greece from Avlis GRC both S=9+20dB signal at 0230 and 0253 UT on Febr 25.

(wb df5sx, wwdxc BC-DX TopNews Febr 25, 2017)

Contributors to the log:

wb, Wolfgang Büschel, df5sx, wwdxc BC-DX TopNews, DXLD, DXPlorer, A-DX	Dave Valko, Dunlo, PA, USA
Glenn Hauser, Enid, OK, USA (also from WOR&DXLD)	Manuel Méndez, Lugo, Spain
Ron Howard, San Francisco at Ocean Beach, CA, USA	Claudio Galaz, Barraza Bajo, Ovalle, Chile via Lista ConDig
(AP-DNK), Anker Petersen, Skovlunde, Denmark	Carlos Gonçaves, Lissabon, Portugal
DO, Dan Olsson, Furulund, Sweden	Robert Wilkner, Cedar Key, Florida
XM - Cedar Key - Florida	Dave Kenny via DXLD
Dan Sheedy, Encinitas, CA, USA	Bruce Churchill via DXLD
Coady-ON, Mark Coady, Selwyn, Ontario, Canada	Walt Salmaniv via DXLD
	Christoph Ratzer, Salzburg, Austria

Station news

CANADA. Fellas, from an insider at the CBC. Unfortunately, it doesn't look good for **CKZU** ever returning to the air. :(Thanks to Colin Newell for digging into this further. (Walt Salmaniw, Victoiria, BC)

Got the answer.. not gonna like it. Basically, it broke and they don't have parts to fix it because it's too old and no parts available. The money required to purchase a new transmitter doesn't make sense because of the low numbers of people who use it (changing world, everything's online, blah blah). Before you say it, yes I know, I know.

Anyway, there is no other way to voice your displeasure than the [1-866-306-4636](tel:1-866-306-4636) audience relations number. if enough people call, they might notice, but I doubt it.

Sorry to be the bad news messenger. I kinda figured that was the deal of why it was off the air. (Walt Salmaniw, Victoria, BC via DXPlorer)

 CBC Sails into the sunset - 6160 Khz gone forever.

<http://coffee.bc.ca/canadiana/954/a-little-bit-of-cbc-radio-history-fades-away>

(Colin Newell - Editor and creator of Coffeecrew.com and DXer.ca - VA7WWV Victoria - Canada, DXLD)

GERMANY [non]. 15215, Tue Feb 21 at 1557, very poor carrier. If this is Radio Öömrang, we are going to have a hard time hearing it --- nothing else is scheduled here. Wham! Huge S9+10 OC cuts on just in time at *1559:54, so maybe I

was just hearing the exciter at Issoudun, FRANCE at first. But dead air for more than a minute, causing more apprehension, another transmission failure? No, starts modulating at 1601:15 with sign-on in Frisian/German, website www.###-radio.de and I can't recognize the full URL. Mentions Jahr 2006, so an old repeat? No, 1603 into English saying these broadcasts began in 2006y, but this is a new edition for a wonderful day in February, 2017. About someone's 50-th wedding anniversary, and the rest of the hour is a long interview with her, mostly in Frisian, which is a lot more like German than English, with occasional bits of English. Could have used a bit of typical Frisian music interludes. 1615 mentions Radio Caroline.

1620, Big-Ben style home clock chimes stop at 4 bongs; English announcement with frequency 15215, at 17 hours (local) giving Amrum address, and will be repeated at 19h on internet. Someone had worked in New York, and draws a US pension. 1622, ``The Frisian Voice of Amrum, broadcasting for more than ten years``. Etc., etc. 1658 closing says the 2018 Ausgabe will also be on 21 February at 5 pm on 15215, repeat address, 19h Wiederholung. 1659:45 UT stops, open carrier for 20 seconds and off*.

QSLs in previous years have only been proxy via Media Broadcast, never direct. Last year's sending did not have a transmission failure of an hour of dead air, requiring a make-good. That was in 2015, when they finally got it on March 8.

This was a big steady signal with hardly any fading for the whole hour – a fine example of what DW, RFI or any European broadcaster could accomplish in English every day, if they cared to broadcast 500 kW at 300 degrees toward New York as in HFCC, per Wolfgang Büschel. It even overcame my computer noise so I could leave it on. I gather that reception was not so good in UK/Europe itself, of course in the skip zone and/or off-beam (Glenn Hauser, OK, DX LISTENING DIGEST)

GUATEMALA. 4055, UT Wed Feb 22 at 0155, **Radio Verdad** mentions `Mundo Sorprendente`, which is the title of a program with media/DX elements we hadn't heard or heard about in a few years. Berny Solano in Costa Rica started it in 2013 and invited me to participate. Sked <http://radioverdad.org/?q=programaci%C3%B3n> shows nothing of the kind nor some other programs we've really heard, so seems to remain far out of date,

RV is about to celebrate its seventeenth anniversary. It has issued a number of anniversary QSLs, and perhaps there will be another this year. I can't find any on the website, except for the page explaining that it costs them up to \$10 to QSL along with pennant, sticker, other printed material, and postage. That can be remitted by PayPal. However, the last we heard, postal service was out in Guatemala, and only e-QSLs could be sent.

The 11-page illustrated pdf station history

http://radioverdad.org/?q=system/files/RV_Historia_Grafica_Radio_Verdad_0.pdf

says ``"Radio Verdad" salió al aire el 25 de febrero, a las 5:20 p. m., y fue inaugurada el 5 de marzo del año 2000``, and I had the pleasure of first publicizing it to the DX world.

This was after a very long process since founder Dr. Édgar Amílcar Madrid first conceived it in 1967 as a 25-watt SW transmitter to put his new `Volviendo a Jesús` program on the air. The leadup takes about half the history file. It was written in 2014, the last part emphasizing internet transmissions, but nothing about the strange, never explained worldwide shortwave relay service without transmitters near the same frequency, which I always thought was a scam, and about which we have heard nothing further lately (Glenn Hauser, OK, DX LISTENING DIGEST)

PITCAIRN. Tnx to Richard Allen in Perry OK, for a tip, I hear VP6EU on 21283-USB, Feb 20 at 1557, German accent, working Europeans only such as IK4GRO, LX1EA and a DF7, in no hurry to utter own callsign until hourtop 1600. Says is listening 5-15 kHz up. Had ACI from CO6AZE calling CQ on 21281-USB. You might think this is a bit early for a Pacifican to be propagating on 15m, but the island is on UT -8 just like the North American west coast. (Hmmm, VP6 used to be Barbados).

Richard was also hearing VP6EU yesterday at 1529-1722 on 21222-USB. He refers to: "Pitcairn DXpedition 2017", website is <http://pitcairn2017.de/> (Glenn Hauser, OK, DX LISTENING DIGEST)

TAIWAN. 8117, SSB meteorological broadcasting (t), 1948....UC, 18.02.17. Habe dazu folgendes gefunden: China (Taiwan): Das Central Weather Bureau hat am 1. Oktober 2005 eine zweite Kurzwelle in Betrieb genommen. Die erste Kurzwelle war im März 2003. 8117 kHz USB vom Mt. Wufen (Präfektur Taipei). Diese Frequenz sollte eigentlich ganz Taiwan und seine umliegenden Gewässer abdecken. Allerdings ergaben sich Empfangslücken im Nordosten und Südwesten Taiwans, da offenbar Bergrücken das Signal abschirmten. Dies soll nun durch die zweite Frequenz 5170 kHz USB aus Cigu (Präfektur Tainan) behoben werden.

Alle drei Stunden gibt es eine Wetterschau und -vorhersage in Chinesisch. Die Anschrift lautet: Meteorological Phonetic Broadcasting, Weather Forecast Center, Central Weather Bureau, No.64 Congyuan Road, Taipei, Taiwan. www.cwb.gov.tw/index.htm. (T. Akabayashi 26.11.2005 via Wg. Büschel BCDX)

(Grüß Horst Mehrlich via A-DX)

Other radio news

Wartime Radio The Secret Listeners BBC (1979)

Illustrated with archival film and photographs, as well as interviews with those involved, the documentary traces the evolution of civilian involvement in radio-based intelligence during both world wars.

It was the tireless work of amateur radio enthusiasts during World War I, that initially convinced the Admiralty to establish a radio intercept station at Hunstanton. Playing an integral role during the war, technological advances meant that radio operators could pinpoint signals, thus uncovering the movement of German boats, leading to the decisive Battle of Jutland in 1916.

Wireless espionage was to play an even more important role during World War II, with the Secret Intelligence Service setting up the Radio Security Service, which was staffed by Voluntary Interceptors, a band of amateur radio enthusiasts scattered across Britain. The information they collected was interpreted by some of the brightest minds in the country, who also had a large hand in deceiving German forces by feeding false intelligence.

Production: BBC East. Producer: Douglas Salmon. Editor: Rod Thomas. <https://youtu.be/RwbzV2Jx5Qo>
(Horacio Nigro, CX3BZ, "[La Galena del Sur](#)", Montevideo, Uruguay)

New dual diversity general coverage SDR

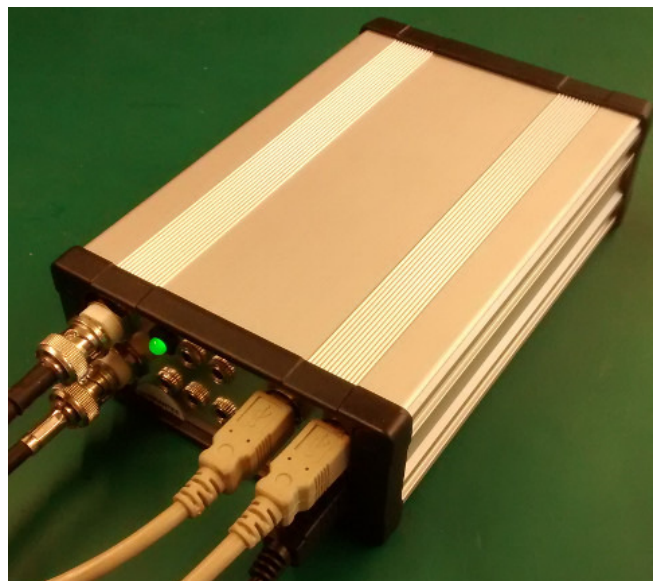
The SDR-4++ is an HF general coverage dual diversity SDR receiver covering from 0.85 to 70.5 MHz.

It has a Si570 low noise synthesised VFO, relay switched band pass filtering, NXP high linearity RF bipolar amplifiers and built-in USB soundcards.

It uses two of our SDR-4+ receivers using a common oscillator so that both receivers are phase coherent for receiver diversity or radio propagation analysis using two separate antenna systems.

http://www.crosscountrywireless.net/sdr-4_plus_plus.htm

(SWLlistener via sdr-radio-com)



Re: [perseus_SDR] Inserting User Lists

Long ago, Nico sent me a small piece of Perseus source code related to the userlist file format. I reverse engineered the code and wrote a userlist template file that contains some important format rules. You can use this file to create your own userlist files or to debug a userlist file that doesn't work.

The file is called userlist1_template.txt and can be downloaded here:

https://www.dropbox.com/s/13old5ukag43ozl/userlist1_template.txt?dl=0

(73, Johan SM6LKM via Perseus_SDR)

Radiopiraten - Infos MW

Seit längerem bin ich auf der Suche nach einer Liste oder einem Verzeichnis von Radiopiratenstationen auf MW.

Meine Logs seit 2001 nach Aufkommen auf bestimmten Frequenzen.

<https://www.achimbrueckner.de/freeradio/info/frdlist.php>

Ob es Sinn macht sei dahin gestellt, aber auf Mittelwelle haben Piratenstationen oft Ankerfrequenzen.

(73 achim Brückner via A-DX)

oder <http://www.freewebs.com/ukdxer/addresses> wenn du ID hast.

(Grüß Horst Mehrlich via A-DX)



South Australian senator Nick Xenophon will introduce legislation to parliament to start shortwave radio again

Senator to push for radio change, By Barclay White, February 08, 2017

The mothballed Shepparton shortwave broadcast station could be coming back online.

South Australian senator Nick Xenophon will introduce legislation to parliament this week to force the ABC to bring back domestic and international shortwave broadcasts.

The broadcasts were shut down last week, after decades of the shortwave signals being listened to by people from across the Pacific region and around the world.

A spokesperson for Mr Xenophon said a bill would be introduced sometime this week to bring back the domestic shortwave broadcasts in the Northern Territory, as well as the international Radio Australia broadcasts, which were beamed to the world from Shepparton.

Former district manager at the Shepparton shortwave station, Gary Baker, had been lobbying politicians in recent weeks to stop the shutdown.

"I think it is fantastic that Nick Xenophon has the interest to push this," Mr Baker said.

"I think common sense will prevail."

He believed it was important for the Radio Australia shortwave broadcast to stay online, as he said it was still a vital service for many people around the globe.

"It is not as if there are local people screaming about it, it is the people that do not have a voice that we are standing up for," he said.

<http://www.sheppnews.com.au/2017/02/08/72811/senator-to-push-for-radio-change>

(Mike Terry via DXLD)

[A-DX] HAARP Tests

Und los gehts in Alaska: 20. und 21 Februar: 2700 und 3300 kHz, 0300-0340 UT.

<https://sites.google.com/alaska.edu/gakonahaarpoon/operations-news>

19 Feb 2017, Campaign time! Experiments begin in the mid morning 19 February Alaska Standard Time (AKST) and continue intermittently through the evening each day through 22 February.

Luxembourg Broadcast

The first radio modification of the ionosphere occurred in the early 1930s and was an accidental consequence of the new and powerful Radio Luxembourg transmitter. In certain situations, listeners of other weaker broadcast radio stations found that they sometimes heard Radio Luxembourg programming even though it was transmitted on a completely different frequency. Scientists and engineers eventually concluded that signals from powerful Radio Luxembourg and less powerful stations were being mixed in space, that is, through ionosphere modification.

HAARP will transmit a sequence of tones and music using amplitude modulation (AM) on two different radio frequencies (2.7 MHz and 3.3 MHz) in a sort of reproduction of this so-called Luxembourg Effect. If conditions are sufficient and you tune-in to one frequency or the other, you will hear tones and music from both frequencies. The tones and music have been specifically composed to take advantage of the Luxembourg effect.

The Luxembourg broadcast will begin as early as 6 p.m. on 19 and 20 February Alaska Standard Time (AKST) and conclude by 6:40 p.m. In Coordinate Universal Time (UTC), the broadcasts will begin as early as 03:00 on 20 and 21 February and conclude by 03:40. Tune in to 2.7 MHz or 3.3 MHz (2700 KHz or 3300 KHz), or both! The program is approximately 10 minutes in duration and will repeat until 6:40 p.m. AKST or 03:40 UTC.



(73 Christoph Ratzler via A-DX)



Alaska's HAARP Facility Once Again Open for Business

ARRL, February 14 2017

The High Frequency Active Auroral Research Program (HAARP) in Gakona, Alaska, will soon undertake its first scientific research campaigns since the facility was taken over by the University of Alaska Fairbanks (UAF) Geophysical Institute 18 months ago. Among the investigators is UAF Researcher Chris Fallen, KL3WX, who will be working under a National Science Foundation grant, "RAPID: Spatiotemporal Evolution of Radio-Induced Aurora." Fallen says the HAARP transmissions will take place within the facility's transmitter tuning range of 2.7 to 10 MHz and should be audible outside of Alaska and may even produce visible effects within the state.

"This time my experiments will largely focus on artificial radio-induced airglow that potentially can be photographed from nearly anywhere in Alaska — weather permitting," Fallen told ARRL. "I plan to start and stop each experiment block with an audio Luxembourg-style broadcast — transmitting two amplitude-modulated carrier waves at different frequencies separated by about 1 MHz, with the resulting skywave signal being a mix of both frequencies."

Fallen said that he has prior success reproducing the "Luxembourg effect" using two DTMF tones. "But this time, I have a short simple musical composition recorded by a local musician," he said. "It was composed specifically to take advantage of the Luxembourg effect."

According to UAF, Fallen, an assistant research professor in space physics, will create an "artificial aurora" that can be photographed with a sensitive camera within Alaska. The phenomenon has been created in the past above HAARP during certain types of transmissions.

Just which HF frequencies Fallen will use won't be determined until shortly before he begins his research. "The specific frequency chosen during a particular experiment depends on the experiment's objectives, FCC regulations, and ionospheric conditions at the time," Fallen explained. He will use ionosonde data to guide frequency selection.

In an explanatory blog, Fallen explains that HAARP scientists use the ionosonde to estimate two important parameters: (1) the amount of low-level ionosphere D-region HF radio absorption that frequently occurs due to natural, but not well understood, processes that prevent HAARP radio wave energy from reaching the higher ionosphere E and F regions; and, (2) the ionosphere vertical "critical frequency" [sometimes referred to as foF2], above which any radio transmissions pass through the ionosphere into space rather than being reflected or absorbed."

Fallen said experiment times and frequencies for his airglow and Luxembourg experiments will be updated on his blog and on his Twitter account linked in the blog. He encourages radio amateurs and SWLs to record the events they hear and post reports to social media or e-mail him.

Built and operated by the US Air Force until August 2015, HAARP includes a 40-acre grid of antennas and a very high-power array of HF transmitters to conduct ionospheric research. Scientists later this month will use HAARP to conduct other experiments that will include a study of atmospheric effects on satellite-to-ground communications and over-the-horizon radar experiments.

Research funding agencies also include the US Department of Energy's Los Alamos National Lab and the Naval Research

Laboratory. HAARP also has a Facebook page. <http://www.arrrl.org>

More details and comments, <http://news.uaf.edu/haarp-research-campaign-planned/>

(Mike Terry via DXLD)

HAARP request reports from radio hams

ARRL, February 18, 2017

On February 20 (UTC), Alaska's High Frequency Active Auroral Research Program (HAARP) will launch its first scientific research campaign since the facility was taken over by the University of Alaska Fairbanks (UAF) Geophysical Institute 18 months ago. UAF Space Physics Group Assistant Research Professor Chris Fallen, KL3WX, reports that he will be ready to go starting Monday, February 20, at 0330 UTC (Sunday, February 19, in US times zones). His campaign will run through February 23 (transmissions will start 1 hour later on February 22 UTC).

Fallen plans to start and stop each experiment block with an audio broadcast, transmitting AM carriers at 2.8 and 3.3 MHz, with the resulting skywave signal — the "Luxembourg Effect" — being a mix of both frequencies. He told ARRL that he will transmit a short, simple piece of music, composed locally, specifically to help demonstrate the Luxembourg effect.

Transmissions to create radio-induced airglow or "aurora" that potentially can be photographed from nearly anywhere in Alaska will take place afterward; Fallen said on February 18 that he wasn't quite ready to announce precise frequencies for that experiment.

"Initially the airglow experiments will be a silent carrier, but if things go well the first night I may try a single AM-modulated tone to make the broadcast easier to hear," Fallen told ARRL. He said net radiated power would be in the 2 MW range.

Fallen is working under a National Science Foundation grant. He's posting additional information on his "Gakona

HAARPool 2017" blog. He points out that exact times, transmit frequencies, and experiment modes "are subject to change in response to a variety of factors." Selected updates will be posted via Twitter.

Fallen encourages radio amateurs and SWLs to record the events they hear and post reports to social media or e-mail him.

<http://www.arrl.org/news/haarp-experiments-to-get-under-way-on-february-20-utc-reports-invited>
(Mike Terry via DXLD)

Shortwave Radio.CH - radio collection

Martin Bösch in Switzerland has collected receivers for a number of years and at this link you can find an interesting webpage where he shows the following types of receivers. <http://www.shortwaveradio.ch/>

**SHORTWAVE
RADIO.CH**

Travel radios	"boatanchors"	shortwave reception
portable receivers	Swiss military sets	RTTY decoding
communication receivers	military sets, others	receiver list
oldie - receivers	domestic radios	receiver manuals

W4HM Daily HF Radio Wave Propagation Forecast

For my hamateur radio and SWL friends around the globe:

Feel free to redistribute this "not for profit" solar, space and geomagnetic weather discussion and HF radio wave propagation forecast, as long as you redistribute it in it's entirety and give me credit for it.

Images associated with this HF radio wave propagation forecast can be found at <https://www.facebook.com/thomasfranklingiellaw4hm>

I have decided to begin posting some of my daily solar, space and geomagnetic weather discussions and HF radio wave propagation forecasts in my Twitter account at @GiellaW4hm <https://twitter.com/?lang=en> . Of course it will consist of little snippets of what's going on as Twitter severely limits tweets as far as content length. Also feel free to leave a "LIKE" every time you access this discussion and forecast as it's the only method I have to gauge the usefulness of it.

GENERAL GUIDELINES CONCERNING CORRELATION OF PROPAGATION INDICES TO ACTUAL HF PROPAGATION CONDITIONS-

NOTE!!! The propagation indices "interpretations" are my personal intellectual property. Therefore the radio wave propagation indices interpretations contained herein is copyrighted © 1988-2017 by Thomas F. Giella, W4HM, all rights reserved. Reproduction of information herein is allowed without permission in advance as long as proper credit is given.

All 14 of the following indices have to occur as described below in order to see the best global high frequency radio wave propagation possible. Something that happens rarely.

- 1.) Dropping geomagnetic field indices numbers are better, Kp of 0 best.
- 2.) A daily sunspot number of 150 or higher, 200 or higher best.
- 3.) A daily sunspot number of greater than 100 for routine stable formation of the E Valley/F Layer ducting mechanism.
- 4.) Previous 24 hour Ap index under 10, fewer than 7 for several days consecutively are best.
- 5.) Previous 3 hours Kp index fewer than 3 for mid latitude paths, fewer than 2 for high latitude paths, 0 for several days consecutively is best.
- 6.) Energetic protons no greater than 10 MeV (10+0).
- 7.) Background x-ray flux levels greater than B1 for several days consecutively, greater than C1 best.
- 8.) No current STRATWARM alert.
- 9.) Interplanetary magnetic field (IMF) Bz with a (positive number) sign, indicates a lesser chance of high latitude path aurora absorption/unpredictable refraction or scattering of medium frequency RF signals, when the Kp is above 3.
- 10.) A -10 or better towards a positive number Dst index during the recovery time after a geomagnetic storm, as related to the equatorial ring current. A positive number is best.
- 11.) Rising positive T index number. The T Index tracks with the F2 layer critical frequency (foF2) and sunspot number (SSN) and indicates the capability of the F2 layer to refract RF signals.
- 12.) Galactic cosmic rays decrease to -3 units below zero and trending towards zero.
- 13.) Energetic electron flux levels no greater than 2 MeV (2+0).
- 14.) A solar wind speed of less than 300 km/s for several days consecutively.

Standard Disclaimer-

Note! I use error prone RAW public domain data from the NOAA Space Environment Center, other U.S. government

organizations and educational institutions, to produce my comprehensive radio wave propagation forecast. This data is gathered and made public by the U.S. Government using taxpayer \$\$\$ (including mine).

However the propagation forecast that I produce from the RAW public domain data is my personal intellectual property. Therefore this radio wave propagation forecast contained herein is copyrighted © 1988-2017 by Thomas F. Giella, W4HM.

Feel free to redistribute this solar, space and geomagnetic weather discussion and HF radio wave propagation forecast, as long as you redistribute it in it's entirety and give me credit for it.

Also solar, space and geomagnetic weather forecasting is still an inexact science. The forecasts are not official but for educational and hobby related purposes only and are subject to human error and acts of God, therefore no guarantee or warranty implied.

("Thomas F. Giella W4HM" via DXLD)

Guides to AM broadcasting in different regions

The British DX Club has published/updated a number of interesting guides to AM broadcasting in different regions of the world:

- Africa on Mediumwave & Shortwave: A comprehensive country-by-country guide to domestic and external broadcasts from Africa, including selected opposition and target broadcasts to the African continent. The document is in pdf format. January 2017.
- Broadcasting in Afghanistan: A comprehensive guide to shortwave and mediumwave broadcasts to and within Afghanistan. The document is in pdf format. Updated January 2017.
- External Services on Medium Wave: A frequency-order guide to external services on medium wave from stations in Europe, Africa, the Middle East and Asia. Also includes some foreign and minority-language programming carried on domestic MW services. Updated January 2017.
- Middle East & Caucasus on Mediumwave and Shortwave: A comprehensive guide to short and mediumwave radio stations in the Middle East and Caucasus. In country order, pdf format. Updated January 2017.
- South Asia on Mediumwave and Shortwave: A handy guide to shortwave radio stations in India, Pakistan, Bangladesh and Nepal. In frequency order, pdf format. Updated January 2017.

These and other publications can be downloaded at <http://bdxc.org.uk/articles.html>.

Dr Hansjoerg Biener (31/1-2017)

([Ydun's Medium Wave Info](#))

Ukrainian radio article

Interesting article on RFE/RL website courtesy of VOA Radiogram today: <http://pressroom.rferl.org/a/28307044.html>

(73, Walt Salmaniw, Victoria, BC via DXLD)

