

SHORTWAVE BULLETIN

Issue no. 1804, Aug 17, 2014.

Deadline e-mail next issue: 0900 UTC, Aug 31, 2014.

Hösten har börjat på riktigt. Snart har tröskorna gjort sitt och höstplöjningen börjar. Den fina värmen har försvunnit och just nu är det bara 16 gr och regn.

I början på veckan var det ganska ostadigt. 0230 kom nattens enda blix och det small som ett kanonskott. Dvs ett nedslag inom ett par hundra meter. Som tur var skadades inget här. Annars har åskan denna sommar varit ganska besvärlig. Bl a har rekord slagits i antal blixar på ett dygn, drygt 49000. Inte illa.

Kortvågen är inte riktigt död, ett par trevliga stationer som varit borta ett tag har väckts till liv igen. Läs mer om detta längre fram.

John Ekwall fortsätter att kittla oss med fina QSL från den gamla goda tiden. Riktigt trevligt som omväxling till de trista mailsvaren som alla ser likadana ut. Tack JOE för detta arbete.

Glöm nu inte nästa stoppdate!

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.

Dave Valko: Made a few more videos. Feel free to view at the links below;
http://youtu.be/VAwux4gR_gE Radio Hilaac signing on
<http://youtu.be/IHC69AR19aU> NBC East New Britain going off and on
http://youtu.be/lufQjNZg_Us 9680.05 RRI Jakarta
<http://youtu.be/ZeCrszhhPg> Radio Tarma on 17775 kiloHertz?????
<http://youtu.be/TYopeXGXrXU> Radio Free Europe/Radio Liberty repeating identification
<http://youtu.be/Jqx6pdXFKWo> Radio Tarma coming on the air and starting Windows XP!!
<http://youtu.be/FmmEHFH3jDs> Presumed Myanma Radio off freq on 9731 kiloHertz
<http://youtu.be/OgiIkrD4zGA> Pirate station Radio Gallifrey Intergalactic
<http://youtu.be/RbmsIMVD-ZY> 3 Pirates, Northwoods Radio, Captain Morgan Shortwave, and an Unidentified
<http://youtu.be/EacYPjz6XNM> Northwoods Radio again with a morning transmission
<http://youtu.be/D4TcR4Y-h-0> Very nice signal of Radio Aparecida
<http://youtu.be/-A1WhbSsuZc> Radio Patria Nueva station identification
<http://youtu.be/qjaxUNkbrZo> Good signal from Alcaravan Radio
<http://youtu.be/jkvytJCuDkQ> Antenna switching comparison of Wellbrook and Delta Loop antennas
<http://youtu.be/gIz971eWGE> 2 Brazilians on 4885.012 and 4885.025
<http://youtu.be/-IbQcFQYi1I> RRI Nabire staying on late
http://youtu.be/-yZYO9_5Upg The Cross Radio with station identification
<http://youtu.be/XSBBLbOIMUY> Nice reception of Radio Thailand World Service
<http://youtu.be/9KA-c0G22ME> Big signal from The Voice of the Abnormal
<http://youtu.be/R9Tb7kaoOeA> Radio Voz Missionaria, including jingle station identification
<http://youtu.be/1MKGAHz8H0Y> 15050 AIR Khampur going off, 15040 AIR Bengaluru coming on
<http://youtu.be/9VccUV55v1U> Just a bit of weak audio from presumed Radio Eco
<http://youtu.be/KEExH3kMMSqQ> CNR1/Firedrake on 14920 and 14980 kHz
<http://youtu.be/1SpoZFdlCHg> An older reception from January of Republic of Yemen Radio

Scanned QSL:s

Thanks to John Ekwall we can show some nice QSL's from a collection of a former SWB member . Thanks a lot for those nice QSL's. /TN

Reactivated stations:

Further down in the log you will find a reactivated R Eco from Bolivia on 4409,76. It's nice to see that some stations reappear in the tropical bands. Normally most of them vanish.

Here is the logo from **R Eco**, Reyes, Bolivia and if you are interested you can also view a rare QSL which Mikhail Timofeyev received in 1991:
<https://www.facebook.com/RinconelDX/photos/a.600273783401388.1073741831.594697040625729/663316883763744/?type=3&theater>



Another interesting reactivation is **4939,97 R San Antonio**. Unfortunately too weak here at my location to get any ID yet. Let's see if someone else is lucky.
/Thomas Nilsson

Ullmar Qvick: Hej Thomas och alla SWB-are! Här skrivs de sista minuterna före deadline, men jag vill gärna nämna gårdagens trevliga sommarträff som anordnades av Jan-Erik Järlebark för NDL:s räkning på hans torp Joristorp, i de djupa tivedsskogarna mellan Askersund och Laxå. Trots upprepade störtskurar var det en trevlig och gemytlig sammankomst med 7 deltagare. Om turen finns med ska ett par bilder åtfölja.

QSL har börjat strömma in från pirater: **Radio Casanova** med e-mail och d:o kort, **Radio Joey** e-kort, **Radio Rode Adelaar** med e-kort, brev och foton, **Zara Radio** med e-kort och brev, **Radio Etherfreak** d:o, **Zender Akenzo** d:o och **Sunrise Radio** med e-brev och många foton. 73 från Norrköping exakt vid deadline!



Joristorp med ägaren Jan Erik Järlebark 15 augusti 2014

NDL-gänget (fem av de sju deltagarna) som var med: JEJ, Sigge A., Margareta Tevemark, Bo Gustavsson och Lennart Deimert. (Lennart Weirell och UQ saknas på fotot.)



Joristorp - en idyll i de djupa skogarna



Log

(UTC)

2368,48	Aug12	1303	Radio Symban is becoming semi-regular here; from 1303 to 1328; usual Greek music and no announcements. My local sunrise was 1323 UT. One of their better days! (Ron Howard, Asilomar State Beach, CA, USA)
2368,48	Aug9	1127	R Symban at barely threshold lvl at 1127 tune on 8/9 from Perseus site in Edmonton AB. By 1145 segments of Greek music were identifiable to past 1200 but reception could only be described as S-1 with an occasional foray to S-2 after 1145. The gray line passed Edmonton between 1145 and 1200 so reception started getting noisier after 1200. Cannot match Ron's excellent recordings from either Edmonton or my home QTH - I need a good beach site, Hi! Bruce Churchill via DXPlorer
2368,48	Aug13	1308	Radio Symban, 1308-1342. Another day of nice Greek music. Very respectable signal during their tests. Three minute audio - https://app.box.com/s/rona28lawtv8fvdvr81w9 (Ron Howard, Asilomar State Beach, CA, USA)
2368,48	Aug4	2030	A weak carrier tent from R Symban, when the other 120 mb Aussies were strong on 2325 and 2485. Good conds towards that area is necessary to catch this one. We have to wait a few more weeks.TN
2850	Aug15	1201	Emphatic Korean talk, as the KCBS hi-MW outlet is making it thru very poorly a bit after sunrise here at 1149 (Glenn Hauser, OK)
3205	Aug4	1102	[non] YL talk on very poor signal, maybe Tok Pisin rather than straight English; 3260

			sounds like the same, but both too weak for // matching on second receiver. 3385 also has non-// YL talk of a lower pitched voice, with signal up to poor level; at 1113 still talk, no music on any of them. Copy is tough with storm QRN level. Anyhow, these three frequencies match the 3 August report to ARDXC from Craig Seager, visiting Berry Creek, Northern Territory, as the ``only active PNG stations on SW`` (plus 7325 WRL). I also hear also on 3325 which is probably Indonesia, confirmed active the past week by Atsunori Ishida, tho today`s monitoring is not yet posted (Glenn Hauser, OK)
3325	Aug4	1231	RRI Palangkaraya // RRI Wamena 4869.90, ending the news at 1231, with patriotic song Dirgahayu Indonesiaku,`` which was in fact played on August 1 and should be heard throughout the month (Ron Howard, Asilomar State Beach, CA, USA)
3325	Aug5	1335	RRI Palangkaraya, 1335. Nice promo for iPhone application - "Download," "Audio streaming broadcasting," "Voice of Indonesia," "Audio on demand," list of RRI stations available. Audio - https://app.box.com/s/8yh19avonxmw0warlr0h . Have heard this promo many times recently! (Ron Howard, Asilomar State Beach, CA, USA)
3344,87			[Non] RRI Ternate. Now that Ramadan is over, this station is off the air, probably till the next Ramadan; as of August 4. (Ron Howard, Asilomar State Beach, CA, USA)
3385	Aug4	1208	NBC East New Britain with provincial news in Tok Pisin/Pidgin; ends at 1217 with ID in English for "NBC East New Britain Provincial News"; as others have reported, was well above the norm today. (Ron Howard, Asilomar State Beach, CA, USA)
3385	Aug15	1204	very poor with continuous talk past 1211 by one voice, presumably NBC News, sounds female, can`t tell if in English or Tok Pisin. R. East New Britain, Rabaul. No other PNG carriers audible, maybe already off (Glenn Hauser, OK)
3960	Aug 9	2038	R Gramox http://www.gramox.fi/ R. Gramox is operating on 3960 kHz with 50 W from Hämeenkyrö, Finland. Drifting from 3960.09 to 3959.96 kHz. https://www.facebook.com/radiogramox (73, Mauno Ritola)
			----- Radio Gramox is a private FM-station in Tampere, Finland, on 106,8 MHz. Recently they have got legal licence for AM-broadcasts on 3960, 7230 and 25760 kHz. Power is announced to be 50 Watts. Just now I am listening to them on 3960 kHz. Stn plays old jazz & entertainment music from 1940's to 1950's. Please, note that this is not a pirate stn. They have also licence to use 729 kHz which is the Tampere frequency in Geneva MW-plan. So far no activity noted on 729. Licece is valid until the end of October 2014. http://gramox.fi/ (Jorma Mantyla, Kangasala, Finland via mwdx)
3960	Aug10	1725	Radio Gramox signal is right now weak here in Southeastern Sweden, but it is no problem to enjoy the old finnish schlagers from way back when. Tried later in the evening yesterday, to gain from darkness, but at that time Gramox was squeezed between two powerhouses on 3955 and 3965 kHz. Sure I will send a report and I do hope for a QSL, but I fully understand that DX-ers are not on top of every stations priority lists! (Per Eriksson)
3960	Aug9	2038	Radio Gramox from Finland surprised to show up on this frequency // webstream. Finnish music. QRM from some utility signal on high side. TN
3985	Aug15	1213	Korean talk and noise jamming, i.e. Echo of Hope, from South to North; and 3912 same situation, i.e. Voice of the People, from South to North, all poor signals; the two JOZes also making it jamming-free on 3945 & 3925 (Glenn Hauser, OK)
4409,76	Aug13	2330	Tent R Eco, Reyes, Bolivia back again after long absence. Last clip on YouTube is from Aug 2012. Too weak signal for an ID. Hope condtions improve. TN
4409,796	Aug8	0114	R. Eco (pres.) Sounds like LA mx at 0114. 0116 M anncr very briefly but hard to tell if it was SP, then back to mx. A pretty noisy evening. A lot of uptempo songs w/accordion. 0125 M anncr again. 0127 sounded like a canned anmnt. Dave Valko
4409,8v	Aug14	2340	Per Daniel Wyllyans Nova Xavantina MT in HCDX. May have 4.409.8v Khz Radio Eco Reyes - Bollivia in Spanish 2340 73s, Robert Wilkner
4716,695	Aug11	0016	R. Yura 0112 nice signal and not too noisy. Campo mx. 0016 M anncr. TC. Seemed to take a phone caller. 0119 TC by diff. M, and more voice-over tlk. Dave Valko
4747,627	Aug12	1005	R. Huanta Dos Mil Series of canned anmnts at 1005 but wasn't there at 1001, so must have signed on between those times. 1011:55 ID by M during presumed usual nx pgm. LAs doing a little better this morning. Dave Valko
4750	Aug13	1251	Bangladesh Betar - HS, 1251-1253, August 13. A daily feature in English; "This is Bangladesh Betar. The weather report read by . . ."; rain and thundershowers; better than normal reception, with lighter than usual CNR1 QRM (Ron Howard, Asilomar State Beach, CA, USA)
4755+	Aug4	1116	PMA The Cross, gospel talk in English, on poor signal; nevertheless, nice to hear some modulation from this rather than just timing the carrier cutoff (Glenn Hauser, OK)



4755,54	Aug4	1123	PMA-The Cross Radio. Mostly religious songs; 1124 two minute sound bite "A Time for Harvest" with Pastor Greg Laurie; www.harvest.org ; 1-800-821-3300 ; ID "The Cross Radio is a Ministry of Pacific Mission Fellowship. Find us on the web at radio dot pma pacific dot org." Their website (http://www.pmapacific.org/ministries/radio/shortwave.php) shows "Our short-wave station 4755 kHz is down at the moment - awaiting engineer and parts," which is clearly not the case today. Old message? (Ron Howard, Asilomar State Beach, CA, USA) (<i>Fantastic recording you enclosed, impressive signal! /TN</i>)
4755,54	Aug6	1206	PMA-The Cross Radio. Strange happenings here August 6. At 1206 and subsequent checking through to 1333 heard strong open carrier after their usual sign off time with no audio at all; normally the transmitter automatically goes off after the DTMF tones, but not so today (Ron Howard, Asilomar State Beach, CA, USA)
4755,54	Aug13	1300	[non log]. PMA-The Cross Radio, 1300, August 13. Not heard, so the DTMF tones must be working again to automatically turn off their transmitter. The extended schedule was very nice while it lasted! (Ron Howard, Asilomar State Beach, CA, USA)
4755,57	Aug7	*1929-	Tent PMA-The Cross Radio seemed to sign on at this time. Weak signal and almost no audio. When checked the following days (like on Aug 16) the carrier is visible on my recording starting at 1915 so probably sign on at 1900 as scheduled. TN.
4755,57	Aug12	1030	The Cross R. "Love is the Answer" remake at 1030, 1032 usual ID intro for "The Edge" segment, said pgm, then back to Christian Pop mx. ID outro for spiritual message segment at 1045 recheck. Even better than 9 August and best signal since last season. Dave Valko
4755,58	Aug9	1035	The Cross R. 1027 Christian Pop mx. Finally a clear ID by M at 1035 w/intro for "The Edge" pgm segment". Best heard yet since last season. Not as noisy as it has been. Dave Valko
4774,92	Aug2	*0958-	R. Tarma. Signal popped on at 0958:34, some deadair, then surprised to hear the Windows XP opening theme melody at 1000:35!! A little more deadair, then start w/full canned ID anmnt by M w/freqs and calls and contact info, into mx pgm. Only fair and very noisy. Dave Valko
4824,48	Aug8	-0059*	LV de la Selva with sign off. For once a decent signal from them. TN
4845,02	Aug9	2330	R Cultura Ondas Tropicais, Manaus, AM (p) Portuguese talk and Brazilian music 25222 AP-DNK
4869,9	Aug4	1119	music audible on the lo side of 4870, vs bonker QRM, presumably RRI Wamena, which Atsunori Ishida confirms active today. On July 31, Ron Howard had it on 4869.90; on Aug 1, Wolfgang Büschel on 4869.920 (Glenn Hauser, OK)
4869,90	Aug4	1231	RRI Wamena // RRI Palangkaraya 3325, ending the news at 1231, with patriotic song Dirgahayu Indonesiaku," which was in fact played on August 1 and should be heard throughout the month (Ron Howard, Asilomar State Beach, CA, USA)
4914,92	Aug9	0001	R dif Macapá weaker than R Daqui on 4915,016. Daqui signed off at 2358 leaving Macapá with a clean signal. TN
4915,00	Aug9	2340	R Daqui, Goiânia, GO Portuguese ann, Brazilian hymns 35343 AP-DNK
4939,97	Aug14	2356	Tent. R San Antonio, Villa Atalaya, Ucayali, Perú with weak audio. Not possible to get a proper ID. Acc to info from the web this station is educational. Not active on Aug 15 when checked in my recording at 2356. On Aug 17 sign off at 0058*. TN
4985			[Non] One of the strongest Brazilian stations on the 60 mb, R Brazil Central, has been absent for quite a long time now. Maybe gone for good? TN
5020,0	Aug7	1925	SIBC noted for the first time this season, weak signal with mx. A bit stronger signal the following days. TN
5020,00	Aug4	-1158*	SIBC, 1155-1158*. The usual evening devotional in English; no full ID, as cut short when audio off at 1158, with transmitter going off at 1200. (Ron Howard, Asilomar State Beach, CA, USA)
5020	Aug15	-1200*	until 1159:51.5* carrier autocutoff of SIBC; tuned in just in time after hearing the Micronesia 4755.5 carrier cutoff a minute or two earlier but not looking at my watch to time that one precisely (Glenn Hauser, OK)
5035,00	Aug9	2310	R Aparecida, Aparecida, SP Portuguese talk and hymns 25332 // 9630 (35433) and 11855 (35333) AP-DNK
5875	Aug9	1115	R. Thailand Int. 1115 caught "This is HSK9..." canned ID by M in EG, then into Cambodian pgm. Very nice signal and fairly quiet for a change. Easily as good as the 31mb outlet with the Malaysian program to 1215. The 15590 EG broadcast at 0000 was rather poor Dave Valko
5915		1140	at 1140 UT, even frequency 'Nay Pyi Taw' site non-directional Myanmar R program, poor signal S=7-8 hit heavily by CRI Filipino next door on 5910 kHz. (73 wb)
5969,99	Aug10	2330	Most likely PBS Gannan with mx from 2256. Strong. TN

5970,029	Aug10	2326	R Itatiaia Belo Horizonte a regular guest here. TN
5980,02	Aug7	2240	R Chaski, Urubamba (p) Spanish talk, fading in and out 15211 AP-DNK
5985,233	Aug6	1135	S=9+10dB or -66dBm, LOCAL LITTLE CHIMES music from - probably - older empire station at Rangoon downtown tx center. In between typical Burmese sing-sang female anncr noted. (73 wb)
5990	Aug12	0103	RNA reactivated, first time heard here since July 25; with 10:03 timecheck and `Nacional Informa` ID only for 300 kW on 980. As usual sufficient but notably weaker signal, than 6180, 11780; however, 5990 sounds a bit louder with more modulation than on 6180. Aug 16 at 0106, RNA is gone again from its extra frequency, still on 6180 and 11780 (Glenn Hauser, OK)
5999,99	Aug6	0018	R. Guaiba 0018 discussion by men in PT, 0024 ad block starting w/poss. ID, then definite ID at 0025:05. Adj. slop QRM from 5990. Dave Valko
6010,061	Aug 15	0326	LV de tu Conciencia is alone on the frequency now. No sign of Inconfidencia for a long time. Maybe gone for good? TN
6024,98	Aug10	0801	R. Patria Nueva. Found the carrier on at 0801. Hard to tell if there was any audio due to the jammer on 6030. Dave Valko
6025,00	Aug7	2230	Red R Patria, La Paz (p) Spanish talk, music, fading in 15321 AP-DNK
6125	Aug16	1220	CNR1 on Aug 16 with special live coverage of the Nanjing Youth Olympic Games Opening Ceremony; presented in French, English and Chinese; occasional announcer with live coverage in background, but mostly live coverage; many speeches. http://live.china.org.cn/2014/08/16/live-nanjing-youth-olympic-games-opening-ceremony/ . Noted from 1220 to 1303. https://app.box.com/s/6thoctu359md68lbfte0 contains 5 minute audio (Ron Howard, Asilomar State Beach, CA, USA)
6129,95	Aug8	2207	Lao National Radio, Vientiane, suspected the one in the clear here with carrier and hints of talk. Co-channel Xizang PBS was off, as were 6025, 6050, 6110. Remember at least some of these were out of service too in 2nd half of August last year. Worth monitoring in the next few days. (Martien Groot, Schoorl, Netherlands via DXLD)
			----- Thanks Martien for confirming Xizang PBS is currently off the air. A few days ago I thought that Voice of Jinling on 6200 was especially good, being free from the usual PBS QRM. So all of Xizang PBS must be down now for a while. A great chance to hear stations like VOJ and LNR in the clear. (Ron Howard via DXLD)
6129,97	Aug6	2256	Laos with nice music and a good signal. On Aug 7 already audible at 2156. TN
6129,978	Aug8	1520	As often noted in past months, one of two transmitters available at Vientiane tx site is always some 22 Hertz down lower side, the other unit is rather on even frequency, scheduled 0855-1600 UT acc Aoki Nagoya list. Noted tiny signal this European afternoon around 1520 UT Aug 8 S=7 -82dBm, poor modulation, but could easily identify Vietnamese sce and typical SoEaAsian Buddhist chimes music. (wb, wwdxc BC-DX TopNews Aug 7/8)
6129,978	Aug8	1429	Same channel of Laotian National Radio Vientiane noted Aug 8th, English sce end at 1429 UT, followed by news in French start at 1430 UT. S=9+5dB or -70dBm strength. (wb, wwdxc BC-DX TopNews Aug 7/8)
6130	Aug5	1359	Lao National Radio. Usual theme music before segment in English; heard bits & pieces of their normal ID; "This is the Lao National Radio, broadcasting from Vientiane capital, the Lao People's Democratic Republic. Our news in English program broadcasts at 2100 to 2130 hours local time daily, which is transmitted on AM 567 kHz. on medium wave and on AM 6,130 kHz. on shortwave"; poor, but pleased to find they still have English at 1400 (Ron Howard, Asilomar State Beach, CA, USA)
6130	Aug12	1553	Lao National Radio, Vientiane, talk in presumed Khmer, 1601 Lao? closing announcement, dead air to 1604:00 off. One of their better appearances here, slightly stronger even than adjacent CNR-1 on 6125, co-channel Xizang PBS still off. (Martien Groot, Schoorl, Netherlands via DXLD)
6134,683	Aug7	2302	R. Aparecida Same long list of stns carrying the Aparecida pgms ending w/IDs and ID jingle song by womens chorus at 2302. Fair and clear as Santa Cruz hadn't faded in yet. Dave Valko
6134,8	Aug4	0109	R. Santa Cruz with announcement mentioning the city, in Spanish, atop but with considerable het from R. Aparecida, Brasil, circa 6135 (Glenn Hauser, OK)
6165		1150	Covered totally by CNR 6th program Voice of Shenzhou Chinese, 2nd Taiwan target sce at 1150 UT too, \ CNR6 9420 kHz. Weak tiny signal underneath likely Thazin BC from 'Phin Oo Lwi' tx site. 73 wb
6925	Aug11	0038	V.O. the Abnormal 0038 "Spam" Monty Python skit followed by "Spam" Weird Al parody of "Stand" by REM. Frank Zappa song. Nice clear ID by M, then another song. Strong. Dave Valko
6950U	Aug2	0008	R. Gallifrey Intergalactic 0008 "Dr. Who" theme, then instru. ethereal mx. More mx

			w/breaks in between songs. Sounded like there was SSTV at 0037 and off at 0039. Nothing came up on the SSTV decoding. Recorded the audio, slowed it down and copied what seemed to be code but it just turned up jibberish. Very strong. Dave Valko
7200,07	Aug4	1414	Myanmar Radio, August 4 found them back on this former frequency; 1414-1420 extremely distorted audio; audio suddenly cleared up; 1414-1429 indigenous style C&W singing; 1430 usual theme music leading into their Distance Learning Service with lecture in vernacular till off suddenly at 1456*; lecture was // 5915 as usual; overall poor (Ron Howard, Asilomar State Beach, CA, USA) ----- Unfortunately nothing heard there today (Aug 5). Mauno Ritola
7200,08	Aug5	-1530*	(seemed frequency was slightly higher today) again heard August 5, but believe maybe on about 1400 UT? Not heard earlier! Noted today (Aug 5) from 1405 till 1530*, with 1430-1530 a long lecture via their Distance Learning Service. Unable to determine what the subject was, but in the past have heard English and math lessons. Most of the reception was almost fair. (Ron Howard, Asilomar State Beach, CA, USA)
7200,09	Aug6	-1530*	Myanmar Radio, August 6, believe I just missed their sign on at 1340; fair. August 5 from 1405-1530*; music show till 1430; theme music for Distance Learning Service with long lecture in vernacular; unable to determine what the subject was, but in the past have heard English and math lessons; lecture was // 5915; almost fair; frequency seemed higher than first day I heard them (Ron Howard, Asilomar State Beach, CA, USA) -----7200v nothing heard there today Wed Aug 6th around 11-12 UT slot. 73 wb ----- Today Aug 6 I was away, but just got home and I see a strong carrier even here signing off at 1433 on 7200.100 kHz. Mauno Ritola
7200,1065	Aug8	1402	failed in past days Aug 5 to 7 - negative couldn't trace that tip of Ron Howard. But today Aug 8th at 1402 UT logged Myanmar R - from older Rangoon site probably -. 7200.1065 at S=8-9 or -73dBm signal strength on empty channel, accompanied by two spurious signals 14.8525 kHz apart, away on both sides like centered on 7185.254 and 7214.929 kHz. 73 wb (wb, wwdxc BC-DX TopNews Aug 8)
7289,94	Aug8	0921	RRI Nabire (pres.) Possible mx around 0921, then soft-spoken M anncr from 0937 recheck to 0945, and back to mx. M returned at 0950. 0956:25 native singing, then more upbeat song 0957:00. M anncr briefly at 1000. More somber mx at 1001:30 w/W voice-over. W ended tlk at 1012:30 and back to mx plainly audible. Pleasant W vcl song at 1030. Mx 1033:40. And getting mx at 1101 and M anncr at 1102 shortly. Mx 1118:00. Was still going w/what sounded like drums at 1130. Surprised and glad this was on throughout. Dave Valko
7289,99	Aug11	-0830*	Following up on Ron's 8/8 late bcst for RRI Nabire, checked on 8/11 only to find them signing off at 0830. However tonight (8/12) I tuned at 0830 and they were still going past 0915 with man and woman ancrs and musical selections. Woman ancr(s) from 0915 to tune out at 0920. Hard to ID the music (even the type of music) as the gray line did not hit Nabire until approx. 0850 when the signal strength started slowly improving. S5-S6 on the Perseus S-meter with moderate static and heavy fading. No QRM. Bruce Churchill via DXPlorer
7324,96	Aug2	0955	Wantok R. Light End of what may have been the "Unshackled" pgm at 0955, then studio W anncr giving the pgm contact info, and China came on and ruined one of the best receptions as of late. Dave Valko
7324,96	Aug4		[non] Wantok Radio Light. Fairly sure August 4 they were off the air; no trace of any open carrier during clear 1400 to 1430, whereas recently had decent WRL reception during this window of opportunity (Ron Howard, Asilomar State Beach, CA, USA)
7345		1155	Thazin BC from 'Phin Oo Lwi' tx site also underneath of CNR1 #572 Beijing site Chinese sce, at 1155 UT. (73 wb)
7505,24	Aug2	0058	WRNO 0058 full ID by M, then another ID by different M at 0059 w/freq. email wrnoradio@mailus.net , addr in Ft. Worth TX. (record) Into New Years rel. mx pgm "The Haven". Very good signal and nice audio, but off freq as usual. Dave Valko
7505,24	Aug9	0350	WRNO med kristen pop non-stop. Stängde utan annonsering kl 0400. 3 CB
7555,033	Aug4	015	KJES 0157 children singing then repeating something in an almost screaming manner. 0159 girl w/usual ID and QTH, then spiritual readings by W with group repeating. Good signal but UTE QRM Dave Valko
9525,92	Aug3	1715	Voice of Indonesia med nyhetsprogram på franska vilket inte motsvarar program-schemat. Kl. 1802 började ett program på japanska (borde ha varit tyska). 2-3 CB
9530v	Aug6	1006	R. Transmundial Irregular here at this time but on today. 1006 pgm of ballads and M host w/canned anmnts. // 11735. Drifted down from above 9530.03 at the start and right on freq at 1012. (6 August) Dave Valko
9540	Aug7	0948	CNR1 jammer 0948 tlk by M in CH, //9730. Looks like both of these are jamming Sound of Hope. 9540 stronger. 9730 goes off at 1000 but 9540 stays on. Dave Valko

9545	Aug4	-0500*	SIBC, usual 0500*, August 4 (Ron Howard, Asilomar State Beach, CA, USA)
9655	Aug7	1000	KNLS 1000 usual opening of EG w/IS twice, EG ID w/QTH, then IS again, and start of EG pgm. Dave Valko
9720	Aug1	1114	SLBC 1114 signal sudden on, then brief drum IS, time ticks, opening anmnt by W in pres. Tamil, and into mx. Weak but there. Dave Valko
9730	Aug1	1105	Myanma R. 1105 incredible strength and thought it was CNR back on this freq again, so tried to // but found none. By the time I came to the realization it was actually Myanmar, it had already dropped down. Was way down by 1120. Probably the best heard this year. Dave Valko
9730	Aug13	1110	Myanmar Radio; English language lesson ("Lesson 6 - Making Recommendations"), provided by ABC/Radio Australia; slightly better than usual (Ron Howard, Asilomar State Beach, CA, USA)
9731	Aug2	1114	Myanma R. (pres.) Off freq and barely audible. Just voices here and there after 1108, then mx pgm from about 1114. Couldn't detect the usual them mx at 1129 but there was mx. W anncr then at 1130, and gone at 1130:50. So it must have been Myanmar. Nowhere near as strong as it was yesterday on 9730. (2 August) Dave Valko
9835	Aug15	1232	after yesterday's report from Ron Howard that this frequency was carrying Traxx FM programming, I am hoping to hear that in English, but it's only Malay, fair signal squeezed by 9830 RTTY and 9840 Vietnam, mixture of W&M conversation, Qur`anish singing snippets, electronic sounds, pop music. 1300 time tone, can't make out any ID, and into news. By 1307 back to music. (Glenn Hauser, OK)
11665	Aug15	1233	better signal than separate 9835, pop music, 1234 Malay announcement, ID as ``Radio-Television Malaysia``; 1300 news by YL about 2 seconds behind 9835 as the two have joined for news on the hour. 1308 mentions Suara Malaysia. By 1310 the two have split again, with 11665 talking about ``I Love Israel`` on Facebook; 1311 `Salaam Aleikum`` and into M&W duet, maybe in English. Anyhow, Ron Howard relays word from Mauno Ritola earlier Aug 15 that Radio Klasik on 11665 and Traxx FM on 9835 were one-day anomalies on Aug 14; now back to normal, which means the back-to-Sarawak services altho I heard IDs for neither: 11665 with Wai FM, and 9835 with Sarawak FM. Of course, these aren't FM at all but AM on HF (Glenn Hauser, OK)
11854,96A	Aug4	0117	R. Aparecida, very good with much better signal than usual on a good Brazilian night, phone caller about their Mãe, with a slight echo even audible on her line; then ordered to recite the Pai Nosso and does so; tho I assume their mother art in heaven too. Also active on 6135v to het BOLIVIA, q.v. (Glenn Hauser, OK)
11916,195	Aug9	2327	R. Gaucha Tlk pgm w/sev. men anncrs. Occas. ad block. From 2327:40-2328:35 hrd three IDs. Good signal. Dave Valko
15120	Aug4	0501	VON in English with news and a lot of info about Ebola virus; time check 0529 UT ("just about 6:30 in Lagos"); into "half hour magazine" program; PSA about citizens must be alert to suspicious activity; decent signal strength, but het/hum and CRI QRM (Ron Howard, Asilomar State Beach, CA, USA)
15344,4	Aug10	2108	R. Nacional de Argentina, 2108 UT, SIO 454 Aug 10 Schönes Signal des argentinischen Inlandsdienstes, der ja nur am Wochenende ausgestrahlt wird. (73 Christoph Ratzer)
15345,16A	Aug 4	0124	R. Nacional is up to fair level, better than usual, to go along with the boosted Brazilians on 25m; M&W dialog in Spanish. This frequency in evenings active only on weekends (Glenn Hauser, OK)
15345,21	Aug4	-0305*	R. Nacional, 0219-0305*. Usual radio dramatization/play; after 0230 music program (Ron Howard, Asilomar State Beach, CA, USA)
15425	Aug12	1230	Radio Free Sarawak with anomaly on August 12. Was RFS being clever in broadcasting till suddenly off at 1302? Perhaps they realize that any broadcasting done after 1230 is virtually certain to be free of any jamming? The jamming normally ends about 1227 or so. At 1257 played their theme music and gave series of IDs; not as strong as normally heard (Ron Howard, Asilomar State Beach, CA, USA)
15550	Aug3	1528	R. Dabanga Found here at 1528 mixing w/WJHR. Since WJHR is in USB, Dabanga was audible in LSB w/usual singing ID jingle. Both stns about equal. Dave Valko
15770	Aug14	2130	WRMI med Blues Radio. Ett trevligt musikprogram som sänds på torsdagar. 4 CB
17775	Aug1	1515	KVOH 1515-1529 "Frecuencia al Dia" DX pgm in SP w/many recordings of stns including R. Tarma, and mentions of other OA stations including R. Cultural Amauta, R. Chaski, and R. Quillabamba. SP ID at 1529, then into pleasant Ranchera mx pgm w/host Lorenzo Martinez who gave his name and many KVOH IDs and QTH as Los Angeles CA. Also ment of Internet website. Not very strong and quite a bit of QSB. Dave Valko

Brandon Jordan log

- 4875.077 Rádio Roraima, Boa Vista, 6 Aug 0255-0353* - station promos, mentions of web site, full ID at the top of the hour followed by a program of pop music by Pink Floyd, Elvis, George Michael, Lobo, Bon Jovi, etc. Another canned ID at 0348 followed by the Brazilian national anthem till 0353. Great signal. +6 Aug *0840 - noted sign-on at *0840 the next morning.
- 4810 Radio Logos, Chazuta, 6 Aug 0245* *1031 - noted sign-off at 0245* in passing and caught sign-on the next morning SDR recording at *1031 with Andean flute-flavoured hymns until announcements starting at 1040. Good signal in the evening, but poorer during sign-on as the SAL-30 was aimed NW during the recording. 4809.997 offset at sign-off, 4810.008 at sign-on.

Sign-on gleanings from Wed morning (6 Aug 14) Excalibur SDR recording. Monitored for carrier-on only, the SAL-30 Loop was aimed NW for Asia so Latin signals non-optimal. True modulating sign-on may vary.

- | | | |
|---------|-------|--|
| 3309.99 | *0827 | R Mosoj Chaski, Bolivia |
| 4699.95 | *0905 | R San Miguel, Bolivia |
| 4747.64 | *1007 | R Huanta 2000, Peru |
| 4765.00 | *1015 | UnID, likely one of the Brazilians listed here? |
| 4774.92 | *0959 | R Tarma, Peru |
| 4785.02 | *0940 | R Caiari, Brazil |
| 4805.02 | *0950 | R Difusora do Amazonas, Brazil |
| 4810.01 | *1031 | R Logos, Peru |
| 4814.99 | *0851 | R Difusora, Brazil |
| 4824.48 | *1057 | LV de Selva, Peru |
| 4865.02 | *1036 | R Verdes Florestas, Brazil |
| 4875.08 | *0840 | R Difusora Roraima, Brazil |
| 4915.04 | *0910 | R Daqui, Brazil (presumed) |
| 4925.24 | *1000 | R Educação Rural, Brazil |
| 4955.01 | *1031 | R Cultural Amauta, Peru |
| 6135v | *0830 | R Santa Cruz, Bolivia (opened on 6135.0 with sudden jump down to 6134.7 and then |

drifting between 6134.7-6134.8)

(73, Brandon Jordan Fayette County, TN USA <http://www.swldx.us> via DXLD)

Contributors to the log:

Wolfgang Büschel / wb, wwdxc BC-DX TopNews	AP-DNK Anker Petersen, Skovlunde, Danmark
Christoph Ratzer Salzburg, Austria	TN Thomas Nilsson, Ängelholm, Sweden
PE Per Eriksson, Öland, Sweden	Ron Howard, Asilomar State, CA, USA
Jorma Mäntylä Kangsala Finland	Glenn Hauser, Enid, OK, USA
Brandon Jordan, Fayette County, TN, USA	Dave Valko, Dunlo, PA, USA
Robert Wilkner, FL, USA	Mauno Ritola, Joensuu, Finland
CB Christer Brunström, Halmstad, Sweden	Martien Groot, Schoorl, Netherlands via DXLD
	Bruce Churchill via DXplorer

Frequencies now cleared for Radio Nord Revival 2014

Our frequency application to the PTS has now been approved and we will be using the following frequencies:

MW 1512 kHz from Kvarnberget, Vallentuna. Licensed power is 2,5 kW but we may only be using 1 kW. Antenna height is 37 metres.

SW 3915 kHz from Ringvalla, Sala. Licensed power is 5 kW and the antenna height is 12 metres.

SW 5810, 6065 and 9295 kHz from Ringvalla, Sala. One of the frequencies will be used at a time. Licensed power is 10 kW and the antenna height is 12 metres.

SW 5770 and 6220 kHz from The Castle, Vaxholm. Licensed power is 0,5 kW and the antenna height is 12 metres. At the moment it is not clear what transmitter that will be used. This is a one-off chance to catch a broadcasting signal from The Castle - the place where the first broadcast ever in Sweden was made on September 1, 1919.

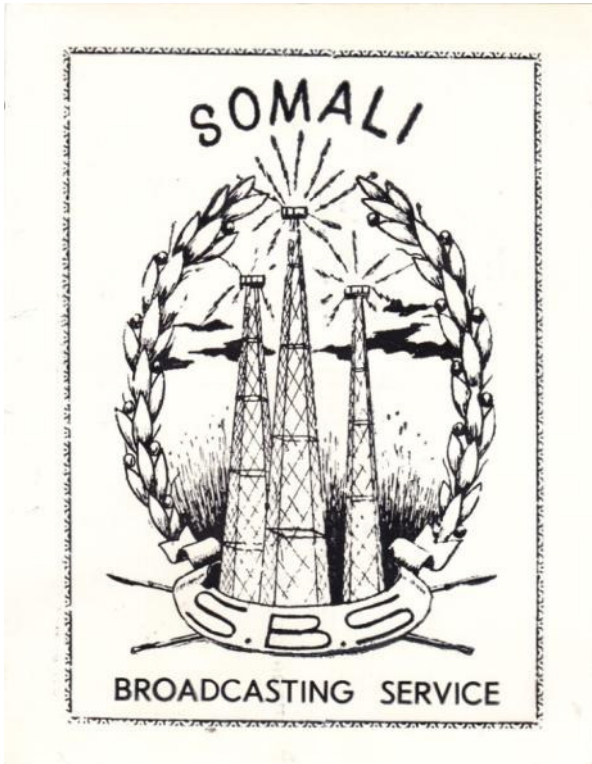
Test transmissions will be made prior to the live broadcasts from The Castle and further information about these transmissions will be made here as soon as we switch on. Please comment in our blog how you are receiving us. As usual, written reception reports can be sent to: Ronny Forslund, Radio Nord Revival, Vita Huset, 17995 Svartsjö, Sweden

Return postage in the form of \$ or IRC's is much appreciated.

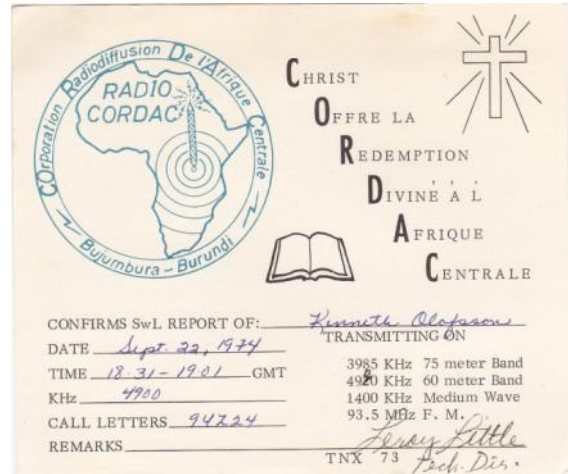
We wish you a good reception. Anybody is welcome to join us at The Castle on Saturday, August 23. If you are in the Stockholm area, you can get to Vaxholm by boat or bus and then there is a boat from Pier 9 in Vaxholm. For travel information please check out www.sl.se, www.strommakanalbolaget.se and www.waxholmsbolaget.se.

(Ronny Forslund via NORDX)

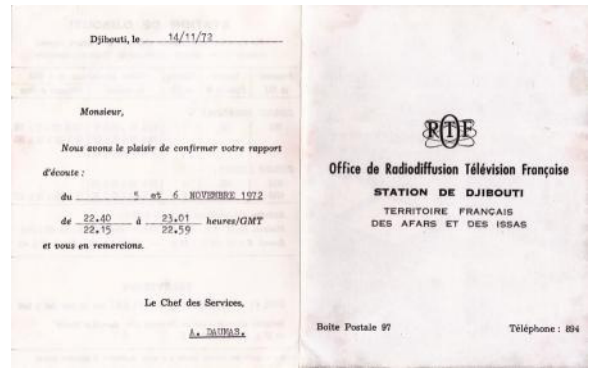
Somali BS 6105 kHz from 1968



ORTF R Djibouti 4780 kHz from 1972



R Cordac 4920 kHz from 1974



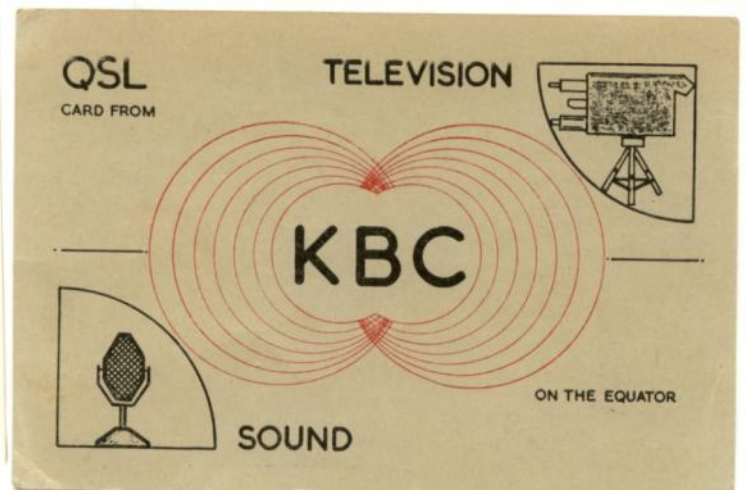
R Abidjan 4940 kHz from 1967



Radio Comercial de Angola 4795 kHz from 1974



Kenya BC 4885 kHz from 1963



Station news

ECUADOR: 3.380 khz ==> A pelo menos 4 dias a emissora do Equador que se indentifica no ar como **CENTRO RADIOFONICO DE IMBABURA INTERNACIONAL** que transmite de forma irregular ligou seu transmissor de ondas tropicais aqui chega por volta das 08:00 e 10:30 utc nos destaques e claramente por comentarios, Talvez Gospel e sem tocar musicas nas horas de minhas recepções.. daniel wyllyans via HCDX

MALAYSIA. Major changes noted on August 14.

Traxx FM on new 9835 at 1234 and subsequent monitoring till 1350; DJ Kevin with his show "Evening Buzz." This frequency for a long time was formerly Sarawak FM. Traxx FM for a long time was formerly on 7295, but that has been silent for some time now, including today; fair with adjacent QRM.

<http://traxxfm.rtm.gov.my/traxxfm/index.php> .

Radio Klasik, 5964.69 // to new 11665 at 1238 with call-to-prayer (Isha prayer - night prayer); heard // the whole time during subsequent monitoring till 1351; Wai FM was for a long time formerly on 11665. So all the programming directed to Sarawak (Wai FM and Sarawak FM) are now gone? (Ron Howard, Asilomar State Beach, CA, USA)

UGANDA. 4750, 1848, Dunamis Shortwave, Uganda (Tentative) – tribal-style songs, Closedown without announcements at 1859. 242, 08/07 AM

4750, 1853, Dunamis Shortwave, Uganda (Tentative) – lively Afro-style songs, no announcements. Closedown at 1928. 242, 17/07 AM

Arthur Miller has also logged Dunamis Shortwave (tentatively) on 4750 kHz – tentative because he heard no announcements, though the African songs and closedown times make it the likely candidate on that frequency: "I last heard the station a couple of years ago, when their policy seemed to be to play soft Afro-style songs with few or no announcements. I've not seen any recent reports. I did check on other days but heard no trace of a station" (Arthur Miller, Llandrindod Wells, Powys, Wales, August BDXC-UK Communication via DXLD)

I did hear Dunamis in October 2013 in Sheigra, Scotland, but also frustratingly with no IDs (Dave Kenny, ed., August BDXC-UK Communication via DXLD)

Other radio news

International Broadcasters Reconsider Shortwave

Radio World, By James Careless , August 15, 2014

Ottawa, Ontario — At the height of the Cold War, the BBC World Service, Radio Canada International and the Voice of America used high-power, multilingual broadcasts on the shortwave radio bands (1710 kHz–30 MHz) to blast news and information behind the Soviet Union's "Iron Curtain." In turn, Radio Moscow, Radio Havana Cuba and East Germany's Radio Berlin International pumped their own versions of reality to the world via shortwave.

Fascinating lengthy article with pictures here <http://www.radioworld.com/article/international-broadcasters-reconsider-shortwave/271847>

(Posted by: Mike Terry via DXLD)

A Radio Jingle...

I know many DX'ers grew up when jingles were more common on the radio then they are today and maybe some of you collect radio jingles like I do.

Well, here's a one of a kind jingle that you've never heard before... <http://www.onairdj.com/pwbtr.mp3>

Enjoy!:) "The Original" Paul B. Walker, Jr. www.onairdj.com www.facebook.com/onairdj (via mwdx)

Great Circle Maps

Nils Schiffhauer macht mich auf eine großartige Software aufmerksam: Great Circle Maps, praktisch eine Verbindung zwischen VoACap und Greyline. Entwickelt vom Schweden Roger Hedin, SM3GSJ - da muß es ja eine Expedition zu neuen Welten sein. <http://www.qsl.net/sm3gsj/screenshots.htm>

(73 Christoph Ratzer via A-DX)

Pampas DX-ing

Henrik Klemetz



Pampas DX-ing hette en av de många DX-bulletiner som publicerades på 1980-talet. Den behandlade Latinamerika-DX på kortvåg. Bakom den stod Julian Anderson, en argentinare av irländsk härkomst. Han bidrog också med värdefull information till en bok om latinamerikansk radio som jag gav ut 1987.

För tre dagar sedan meddelades att han plötsligt avlidit. Det kändes helt överkligt. Jag hade varit i kontakt med honom bara några dagar dessförinnan. En spansk kollega berättade för mig att han chattat med honom dagen innan hans frånfälle.

Så flyktigt kan vårt jordeliv vara. Julian hade förvisso varit ”inaktiv” ganska länge men på senare tid med stor energi drivit flera facebook-sidor med bilder och QSL. Nu återstår bara bilderna, minnena. RIP, Julian.

”Lär oss betänka huru få våra dagar äro, för att vi må undfå visa hjärtan”. (Ps. 90:11)

Shortwave Audience Still Dropping in Most Markets Radio World, August 4, 2014

Like other forms of radio, U.S. overseas broadcasters must reach their audience on multiple platforms; increasingly, that means using delivery mechanisms other than shortwave.

The findings of a BBG report on the future of shortwave broadcasting for U.S. overseas broadcasting are key as shortwave transmission facilities continue to age, repairs are deemed expensive and the Broadcasting Board of Governors is trying to reduce what it considers to be unnecessary costs. The BBG oversees U.S. international broadcasters like Voice of America, Radio Free Europe/Radio Liberty and Radio Marti.

“While there is still a critical need for shortwave in key countries, it is a medium of marginal and continuously declining impact in most markets. Even in countries with currently significant levels of shortwave usage, audiences will migrate to other platforms as they become more accessible,” note the writers of a committee report on the future of shortwave, “To Be Where the Audience Is.”

The BBG has found no evidence that shortwave use increased during a crisis. In the report, the committee observes that audiences continue to use their existing platforms like FM, TV and the Internet “or seek out anti-censorship tools including online firewall circumvention, private chat software, flash drives and DVDs to access content.”

Digital shortwave, or Digital Radio Mondiale, is unlikely to become an established mass media distribution methodology in enough of the BBG’s current or future markets to justify the costs, notes the committee in the report. Still, the report finds that substantial audiences embrace shortwave in Nigeria, Burma, North Korea, Afghanistan, Somalia, Zimbabwe, Cuba and other target markets for the BBG.

At the same time, the committee’s recommendations make clear that the BBG will need to continue to reduce or eliminate shortwave broadcasts where there is either minimal audience or that audience is not a U.S. foreign policy priority. The committee believes their findings back-up reductions that were made in redundant signals in 2013 and further cuts in transmissions that were made in 2014.

The BBG notes that even with these recent reductions, U.S. overseas broadcasters make programs in 35 of a total 61 broadcast languages available on shortwave where there is a strategic reason to do so. The shortwave committee report will be discussed at a public BBG meeting on Aug. 13.

<http://www.radioworld.com/article/shortwave-audience-still-dropping-in-most-markets/271654>

(Mike Teryy via DXLD)

En DX-blogg med kvinnliga förtecken

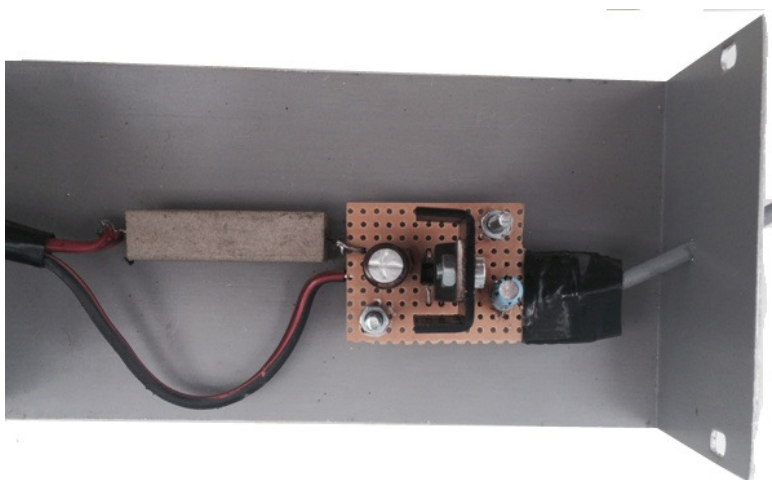
Mycket läsvärd, kanske mest för programlyssnare men även för andra är den kvinnliga brittiska DX-aren Chrissy Brands (Manchester) blogg som du hittar på <http://dxinternational.blogspot.com/> Hon har bl.a. ägnat sig åt att utforska hur man idag kan hära sändningar från Ryssland, Ukraina, Armenien och andra länder som är aktuella i nyheterna men som upphört med sin kortvågsservice. Chrissy är en god skribent och har hittat många ovanliga ämnen att skriva om. Rekommenderas alltså.

(Ullmar Qvick via NORDX)

5V power supply for Perseus - The simple solution

This power supply operates between 13.5 volts to 10.5 volts battery voltage. Now I have a regulator that will need at least 2 volts higher voltage at the input than at the output. There are also regulators that only need 0.5 volts higher voltage. The one I used is a L 7805 CV and can deliver 1.5 A output.

I calculated the resistance to a value of 4.7 ohms 5 watts. Then it is right on spot. At 12 volts from the battery there is 3.5 volts across the regulator and 3.5 volts across the resistor. Thus, 2.65 watts in the regulator and 2.65 watts in the resistor and Perseus draws 3.75 watts. In total, the power supply draws 9 watts.



I have also tested a switched power supply that uses only half as much power from the battery (= 4.5 watts). The drawback is the annoying noise produced which needs to be taken care of.

(Stefan Wikander)

Linear 12 V/5 V battery power supply - final for Perseus by Guy Atkins/Chuck Rippel

There was a question in the Perseus Yahoo group for a link to a schematic of a suitable 12 V battery power adaptor for Perseus. A reference to my own website came up to a schematic drawn by Guy Atkins/Chuck Rippel. A handful persons, among others Roelof Bakker and SM5GLC, Lars Moëll, questioned the choice of a 2200 uF output capacitor. The manufacturer of LM2940 says that C_{out} must be at least 22 μ F to maintain stability. May be increased without bound to maintain regulation during transients.

Roelof Bakker says: *A word of warning is on order. I have build a similar power supply for my PERSEUS and found that when it was switched on a voltage spike well above 5V appeared at the output. I had build in an over voltage protection, which saved my PERSEUS. This circuit will work fine, however it might be wise to switch it on before connecting it to the PERSEUS.*

SM5GLC Lars Moëll concludes: *Yes it do works but just a few thoughts from my side, if it is larger than needed, why use this large? Users have reported spikes, which may be caused by this capacitor. And if no load and you pull the input, the charged capacitor will have much higher voltage than the input (= 0 volt), hence driving current backwards. This is known to kill regulators. So the bottom line, if I would build this circuit (which is basically pretty good) I would go with a smaller cap :)*

YMMV, TIMTOWTDI, Happy DX-ing! /Lasse SM5GLC

(Just a comment YMMV = [your mileage may vary](#) TIMTOWTDI = [There is more than one way to do it](#))

SM5GLC suggests changing the capacitor to the minimum recommended of 22 uF instead.

Let's see what comes up in near future regarding any changes to that design.

/Thomas Nilsson

Circuit Exchange International

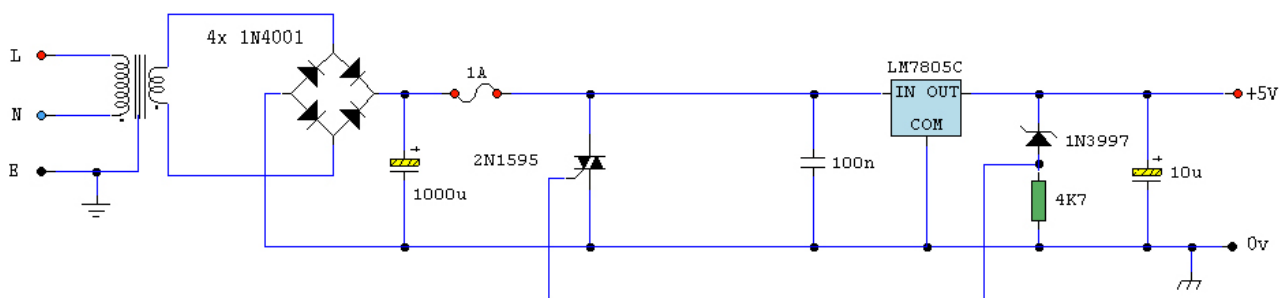
When I searched for some electrical scematics I found a very interesting UK website by Andy Collinson. Andy says in the introduction to his site: *Welcome to Circuit Exchange International. My site contains electronic and radio schematics in 11 categories. There are sections on circuit simulation, design, analysis and a practical section containing tutorials. This is a free site and mostly my work, however I do welcome contributions. Everyone who has helped in the making of this site is listed on my [credits](#) page. This home page has kindly been translated into several languages, and you can use google translator for others. Thank you for visiting my site.*

*Circuit Exchange
International*

I wrote a mail to Andy asking for permission to use some of his material in SWB suitable for the Perseus and that was OK. Andy, thanks a lot for that!

On his website at <http://www.zen22142.zen.co.uk/Circuits/Power/overvolt.htm> you can find a simple 5 Volt regulated PSU featuring overvoltage protection.

This is the schematic for a power supply connected to 110/220 V AC.

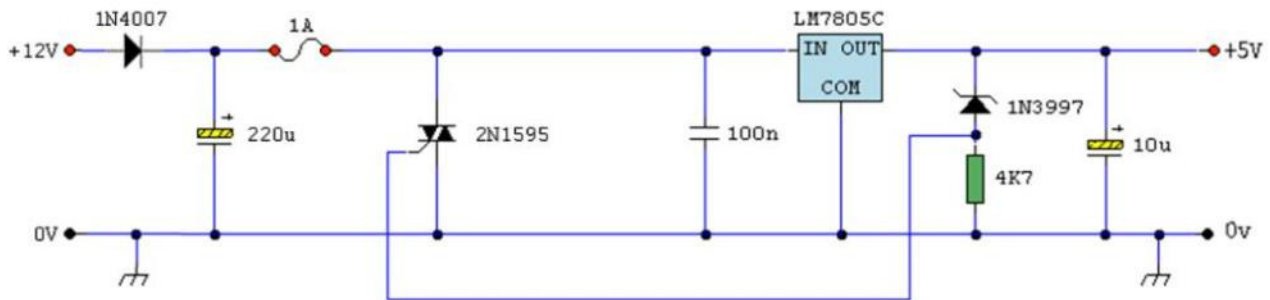


The 5 volt regulated power supply for TTL and 74LS series integrated circuits, has to be very precise and tolerant of voltage transients. These IC's are easily damaged by short voltage spikes. A fuse will blow when its current rating is exceeded, but requires several hundred milliseconds to respond. This circuit will react in a few microseconds, triggered when the output voltage exceeds the limit of the zener diode.

This circuit uses the crowbar method, where a thyristor is employed and short circuits the supply, causing the fuse to blow. This will take place in a few microseconds or less, and so offers much greater protection than an ordinary fuse. If the output voltage exceed 5.6 Volt, then the zener diode will conduct, switching on the thyristor (all in a few microseconds), the output voltage is therefore reduced to 0 volts and sensitive logic IC's will be saved. The fuse will still take a few hundred milliseconds to blow but this is not important now because the supply to the circuit is already at zero volts and no damage can be done. The dc input to the regulator needs to be a few volts higher than the regulator voltage. In the case of a 5V regulator, I would recommend a transformer with secondary voltage of 8-10 volts AC.

It is also possible to connect this power supply to a 12 V battery if sufficient heat dissipation is taken care of.

Andy says: *Just omit the transformer and diodes. The input 1000uF can also be lowered to say 220u or even 100u. The only problem is heat dissipation. If the Perseus SDR draws 500mA then the dissipation in the regulator will be $(12-5) * 0.5 = 3.5$ Watts. If the perseus took 1 amp then dissipation would be 7 watts.*



I let Roelof Bakker check the scematics and he came back with some good points:

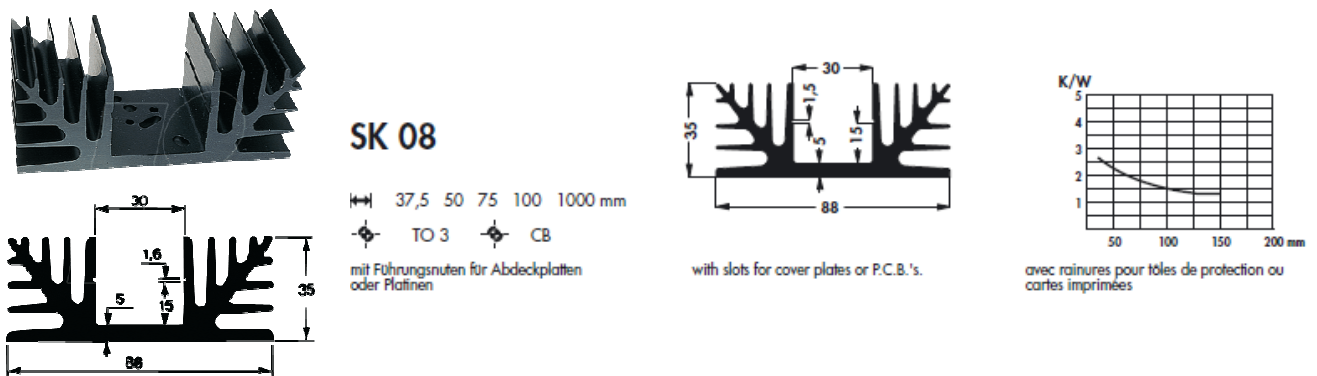
*The circuit with a single 7805 regulator and over voltage protection is a good one. It does need a good heatsink on the 7805. A full 12V battery will deliver close to 13 V. The PERSEUS current draw is 700 mA maximum, so maximum heat dissipation is $0.7 * (13-5) = 5.6$ watt.*

I also enclosed a schematic similar to the above but with two regulators, LM 7808 & LM7805 and asked if there were any advantages with such a design. Roelof says:

A design with two regulators can lead to unforeseen behavior at switch on. It will also need to dissipate the same 5.6 watt, albeit divided between two regulators. In the end nothing is gained by this circuit.

The reason I tried it is that when you use a low drop 5V regulator the circuit can be also be used with a 6V battery, skipping the pre-regulator. A suitable heatsink is the Fischer V4511D (SK 08-37,5 below).

Roelof: Thank you very much for looking into the design and for your comments. So by changing the LM7805 in the design above to a low drop voltage regulator like LM2940 it is possible to drive a Perseus from a 6V battery. Also the heatzink can be changed to a smaller model with less heat dissipation.



Hur dimensionera kylelement...

Förmågan att överföra värme kallas "Termisk Resistans", betecknas R_{th} . Detta värde anger hur bra komponenter är på att överföra värme. Ju lägre värde, desto bättre...

/Thomas Nilsson

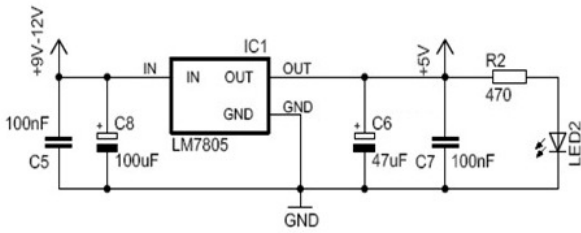
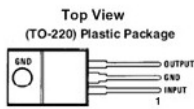
Difference between LM 7805 and LM2940

The LM2940 is a common low-dropout (LDO) linear regulator. A regulator's dropout voltage is the voltage required between the input and the regulated output voltage. This voltage (multiplied by the current) is wasted by the regulator (turned into heat), so the lower the dropout on a linear regulator, the more efficient it is.

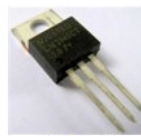
This means the LM2940, with a .5V dropout at 1 amp, will work well with a 6 volt wall wart and provide a regulated 5 volt output. This also means that the regulator will stay much cooler than a standard 7805 say, which would require a much higher input voltage (around 7.5 volts) for a regulated 5 volt output.



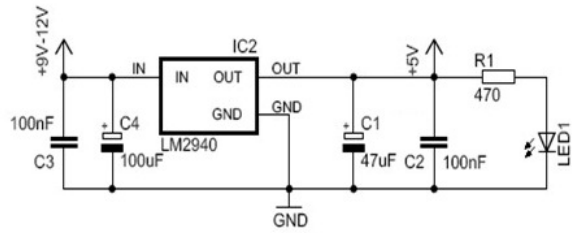
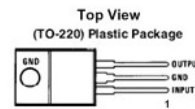
LM 7805



LM 7805, 5 Volt Voltage Regulator



LM 2940



LM 2940, 5 Volt Low Dropout Voltage Regulator

Commercial 5 V linear adaptors for Perseus:

In 2009 I bought two 5 V Stontronics linear adaptors. One is a single unit, type T3182ST (see below), and the other is a dual unit which handles increased current rated at 1,5 A. I have more or less only used the dual unit. After a year or so it began to show oscillation near 10 mHz. I replaced the 1000 pF decoupling capacitors (which should have been at least 0,01uF) with bigger ones, 0,1uF, on both sides and the oscillation was gone. /TN

There are still some linear 5V adaptors available.

For the American market:

JAMECO AC to DC Power Supply Wall Adapter Transformer Single Output 5 Volt 1 Amp 5 Watt Jameco Part no. 168605

Manufacturer: [JAMECO RELIAPRO](#)

Data Sheet (current) [234 KB]

<http://www.jameco.com/Jameco/Products/ProdDS/168605.pdf>

Primary Output Voltage 5 V DC
Output Current 1A
Input Voltage 120 V AC



For UK Market:

AC-DC LINEAR PSU, 5V 1A 2.1MM - T2526ST - STONTRONICS (UK Plug)

Manufacturer Part No: T2526ST

[Technical Data Sheet \(1.14MB\) EN](#)

<http://www.farnell.com/datasheets/1513727.pdf>

Product Information

AC-DC LINEAR PSU, 5V 1A 2.1MM

Output Current: 1A

Output Voltage: 5V

Input Voltage: 230V AC

Plug Type: UK

Weight: 53g

Order code 90-2641:

<http://www.rapidonline.com/electrical-power/stontronics-5v-dc-1a-ac-dc-regulated-uk-adaptor-t2526st-90-2641>



For the Euro market

Stontronics 5V DC 1A AC-DC Regulated Euro Adaptor T3182ST

(Euro Plug)

Manufacturer Part No: T3182ST

[Technical Data Sheet \(1.14MB\) EN](#)

<http://www.farnell.com/datasheets/1513727.pdf>



Product Information

AC-DC LINEAR PSU, 5V 1A 2.1MM

Output Current: 1A

Output Voltage: 5V

Input Voltage: 230V AC

Plug Type: Euro

Weight: 53g

Order Code: 90-2645:

<http://www.rapidonline.com/electrical-power/stontronics-5v-dc-1a-ac-dc-regulated-euro-adaptor-t3182st-90-2645>

Recommended heavy duty power supplies:

I knew that Anders Hultqvist uses two types of power supplies for his radio equipment. I asked him to specify the types and also give a short opinion of them.

Diamond GSV3000:

The first one is the Diamond GSV3000 which is really heavy duty. The only drawback is the price, which was about 200 pounds when he bought it from Martin Lynch in the UK.

Specifications:

Adjustable Output 1 ~ 15 VDC, 30 A

Input 110 or 220 VAC

Load regulation less than 2%

Overload current fold-back at 40 A, 13.8 VDC

Ripple voltage 3 mVpp at 34 A, 13.8 VDC

Capable to supply 200 Watt Output power booster.

Weight 9 kg

This linear power supply (transformer based) having compact size, and suitable to provide power for modern transmitter, the ripple voltage is very small (3 mVpp) thus suitable to supply dc power to handy transceiver.

Dimensions: 50W × 150H × 240D mm



PS1502A:

The other power supply used is also a good performer since several years. The price is very affordable, about € 50.

Specifications:

output voltage: 0-15V adjustable

output current: 2A

ripple voltage: 5mV

regulation: 1%

dimensions: 150 x 110 x 240mm

weight: 2.4kg

