

SHORTWAVE BULLETIN

Issue no. 1753, Sept 2, 2012.

Deadline e-mail next issue: 0900 SNT, Sept 16, 2012.

Fälten runt huset här är nu färdigtröskade och det märks också på andra sätt att hösten närmar sig med stora steg.

På MV börjar det gå allt fler NA-stationer. På KV börjar Asien och Pacific komma igång. Bl a en trolig loggning av 4755 The Cross Radio långt uppe i norr.

Det har varit mycket åska och sprak på banden och KV har inte bjudit på särskilt mycket trevligt, inte ens de vanliga brassarna på 60 m har nått upp till normal nivå.

Till detta nummer har Martti Karimies gjort en mycket intressant beskrivning av sin nya broadband beverage. Med denna antenn har han lyckats höra en dröse finingar på MV. Det är väl bara TJ som också kör med något liknande och hans loggningar är också spektakulära. Det är dock flera andra som är i farten att sätta upp så kallade "staggered beverages", vilka ger den behövliga, extra skjutsen på DX-andet. Läs mer längre fram!

Keep on

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Redaktion:

Thomas Nilsson
Mardalsv. 372
262 93 Ängelholm

Tel: 0431-27054

E-mail:
thomas.nilsson@ektv.nu

SWB-info

SWB online på HCDX: <http://www.hard-core-dx.com/swb>
SWB member information: <http://www.hard-core-dx.com/swb/member.htm>
SWB anniversary issue: http://www.hard-core-dx.com/swb/SWB_history.pdf
Dateline Bogotá 1993-1998: <http://www.hard-core-dx.com/swb/Dateline.htm>
SWB latest issue: <http://www.thomasn.sverige.net/password.htm>

QSL, kommentarer, mm.

Rolf Åhman: Några veckor efter epostsvaret från **Radio Myanma 7185** kom ett snyggt kort och brev. QSL har också kommit från **Radio Thailand 7570** som svarade med kort via IBB.

Börge Eriksson hann knappt läsa förra numret av SWB förrän mina gamla DX-tidningar var borta. Ett telefonsamtal tidigt på måndagsmorgonen från Ronny Forslund och saken var klar. Han tog rubbet och på måndagskvällen, efter en kopp kaffe och en lång, trevlig pratstund, bar vi ut en hög tunga lådor i hans bil. Det trodde jag inte. Var beredd på att köra allt på tippen. Ronny skulle ha tidningarna som underlag för den bok om DX-ingens historia i Sverige som han planerar. Efter att Ronny hämtat tidningarna hörde en del andra av sig om diverse strönummer, men dem får jag nu hänvisa till Ronny. Tänk vad man kan samla på sig av årgångar av 50 år gamla DX-tidningar.

I en av kartongerna hittade jag även ett gammalt foto på en brevvän från 50-talet. Det är sändaramatören Floyd McCoy (VR6AC) från Pitcairn Island. Vi brevväxlade från 1953 fram till hans död 1962 då hans fru Violet övertog brevväxlingen som pågick fram till 1973 då även hon avled. Därefter har jag inte haft någon kontakt med den litet märkliga ön. Bakgrunden till att jag kom i kontakt med honom var att jag var litet nyfiken på den rundradioverksamhet han bedrev under andra världskriget för Englands räkning på den rundradioverksamhet som sändes ut. Han sände även en del "Back to the bible" program. Bilden visar det kort på honom som jag hittade. I slutet av 50-talet sände McCoy ett specialprogram över amatörbandet för Dalecarlian DX-Clubs årliga DX-tävling, men vi fick aldrig några rapporter om att någon hade hört sändningen.

Håller med dig Thomas om att tradjazz är en trevlig avkoppling och nu på söndag den 2 sept. skall jag på en konsert här i Hedemora med Tuxedo Jazz Band som gästar stan med sin årliga konsert.

Arne Nilsson: Det har varit dåligt med bidrag från mig ett tag nu, så jag får väl skärpa mig! Jag har kommit igång med remote-körning (tack vare god hjälp av bl.a. OJS m.fl) så det ska bli intressant att se om man kan gräva upp fler intressanta loggningar.

På KV kör jag nu med inspelningar på min AFEDRI och SDR-Radio. Jag har tyvärr inte kalibrerat den mottagaren, så mina frekvensangivelser får bli ungefärliga.

Just nu jobbar jag också på att kunna fjärrstyra omkoppling av antenner och filter till AFEDRI. Dessutom har jag ännu inte fått upp mina nya Bäver-antennerna men däremot en full size Delta Flag. Den verkar gå bra men jag ska rikta om den inför vintern så att jag kan rikta den mot AUS/PNG. Bruset är lågt på både Flag och min 500m Bäver, och trots att jag nu kör med en PC för att styra RX-arna och har diskar med switchade PSU:n, så har jag inga som helst störningar från dem! Det förvånar mig faktiskt.

Jag har som vanligt inga QSL att redovisa för mina KV aktiviteter, men däremot en kul sak på MV: Jag hörde AM 16-20 Mar del Plata med väldigt fin signal och ett ovanligt ID, skickade till HK som sedan föreslog att jag skulle rapportera den! Han fixade kontaktperson, jag skickade och efter mindre än 20 min kom en verifikation!! Det blir svårt att slå det personliga rekordet... ☺

Lars Skoglund: HCJB Weenermoor Tyskland 3995 har svarat med kort och brev. Svaret kom från Quito.

Robert Wilkner: During a lull in tropical Storm Isaac with the Sony 2010XA, Peet's coffee and log book.

Had 24 hour bands of rain with little damage from the storm other than flooding.

Photo during a half hour break in the rain on 27 August.



Log

(UTC)

2325			VL8T , Tennant Creek NT, 1847-1935, 21/8, [unreadable] talks, phone-ins; 25231; parallel to 4835 VL8A. Carlos Gonçalves
2485			VL8K , Katherine NT, 1848-1934, 21/8, cf. // 2325 VL8T; 25331. Carlos Gonçalves
2850			North Korea 1020 fair signal as band indicator 1 September (Wilkner)
3329.53			Ondas del Huallaga , Huánuco 1014 to 1030 excellent flauta andia, yipping with om dj, under t-storm crackle. 24 August (Wilkner)
3329.54			R. Ondas de Huallaga , 10:12-10:30 44444 mx f ID "Ondas del Huallaga.. Huallaga" mx f huayno 27 August (Pedro F. Arrunátegui)
3340	1.9	0120	OID med SS eller lokalt språk. YL pratade hela tiden och signalstyrkan bara S2. R Misiones Int., HND , skall ligga på denna fq och fortfarande vara aktiv, men jag har absolut inget som styrker att det är den! AN
3375.13			Radio Municipal São Gabriel da Cachoeira 1015 flauta andina, yipping good music under t-storm crackle 24 August (Wilkner)
3995	31.8	0535	HCJB , Weenermoor German bible-reading with a slight Canadian accent (Program no. 959 from Canada), hymns e.g. "Ich werde Dich immer lieben", 0600 another religious programme in German 45344 AP-DNK
4010.10		1800*	Kyrgyz R 1 , Krasnaya Rechka, Bishkek. Kyrgyz ann and Kyrgyz folksongs, 1757 closing ann and national hymn by choir, 35333, only transmitter hum on // 4795 AP-DNK
4055	1.9	0120	R Verdad, GTM , med instrumental mx. S2. AN
4319u			AFN, Diego Garcia 0023 to 0040 mx mixing with UTE, narrow filter 25 Aug. (Wilkner)
4451.18	19.8	2250	R Santa Ana , Santa Ana del Yacuma Spanish talk 15221 AP-DNK
4699.6			Radio San Miguel , Riberalta silent for last two days? (Wilkner)
4701usb			UNID 0000 to 0010, Two men in Spanish while looking for absent Bolivian 2 Sept. (Wilkner)
4716.65			Radio Yatun Ayllu Yura , Yura 0000 to 0030 music tough copy on 25 August (Wilkner)
4716.72	24.8	2255	R Yatun Ayllu Yura , Yura Spanish talk and music 15111 AP-DNK
4747,092	26.8	0059*	R Huanta 2000 with sign off. Decdnt strength. TN
4747.10	24.8	2310	R Huanta 2000 , Huanta Spanish ann, men singing 15221 AP-DNK
4749.904			RRI Makassar 1050 to 1100 on 1 September (Wilkner & DK - Naples)
4750			Dunamis BC , Mukono, 1854-1900*, 21/8, songs; 25331. Carlos Gonçalves
4750		2040	Voice of China , Hailar Chinese talk by man and woman 35333 // 4800 (55444) and 11710 (34333) AP-DNK
4754,872	2.9	0100	Radio Imaculada Conceição , Campo Grande, MS with an ID at 0059 sounding like Imaculada Conceição but heavy static crashes. Good strength. TN
4754.9t.			Radio Imaculada Conceição , Campo Grande, MS Per XM-Cedar Key tip - possible return of Radio Imaculada 0000 to 0028 in Music strong signal in Port. 2 Sept. (Wilkner)
4755	30.8	0100	R Imaculada Conceicao, B , har jag inte hört på ett bra tag men den hörs nu åter. Kom med ett ID och i övrigt en del mx. Bra hörbarhet. AN
4755.44			The Cross Radio, Pohnpei Micronesia 1000 to 1020 27 August (Wilkner)
4755,494	31.8	1845	OID stn med tal och mx som bara kom fram sporadiskt. Våldigt svag och blev hela tiden svagare. Jag kollade frekvens med Perseus! The Cross har hörts runt denna fq i USA. Kan det vara så att Pacific snart är på G? Det vore ju trevligt! AN
4774.95	22.8	2308	R Tarma , Tarma Spanish long talk, Andean music 35232 AP-DNK

4780			Radio Djibouti , Doraleh Sign on and into Quran, 0301 fair to good 1 September (XM - Cedar Key)
4781.54			Radio Oriental , Napo 0010 with strong signal on 29 August (Wilkner & DK - Naples)
4781.6	31.8	0000	R Oriental, Napo . Lokal mx och abrupt s/off efter 0002. Hfsad signal och hörbarhet. AN
4781.645			Radio Oriental , Napo 1101 om with ID "en kilohertz, emisora ...international ..." 1 September (Wilkner)
4781,662	1.9	0001*	R Oriental with abrupt sign off at 0001. Often good strength. Drifting a little. TN
4810.00		*0023	AIR Bhopal AIR IS, Urdu (p) ann, "Vande Mataram" choir hymn, ID: "Akashvani", sitar music, 0030 "Yeh Akashvani" and news in Hindi from Delhi 34343, heard // 4840, 4880 and 4910 AP-DNK
4810			Radio Logos 0940 to 1010 traditions flauta andina, "cuatro en la manana" TC and "Palabras de Dios" 26 August. - 1040 orchestra and chorale then at 1052 into beautiful flauta andina 1 September (Wilkner)
4810.00	24.8	0100	R Logos , Chazuta, Tarapoto Vernacular religious talk by man and woman, hymn, best in LSB due to heavy noise in USB, slight CODAR QRM 24232 . Also heard weak carrier at 2310 on 23.08, but not yet audio AP-DNK
4835		2045	VL8A , Alice Springs, NT English conversation 35232 (2325 and 2485 had faded out) AP-DNK
4920	21.8		
			AIR, Chennai , 1720-1734, 20/8, Indian music, talks, news bulletin in English at 1730; 24331, increasing QRM de CHN (// 6130). Carlos Gonçalves
4950.00	24.8	0035	R Kashmir , Srinagar Kashmiri ID, Muslim song (Call to Prayer), talk about Allah, song without music, Kashmiri songs with music 35333 AP-DNK
4955.00	19.8	2310	R Cultural Amauta , Huanta Spanish Andean singing, Spanish talk and hymns 25232 AP-DNK
4986.277			Radio Voz Cristiana , Huancáyo 0000 to 0025 seemingly the one, with VERY distorted signal 29 August (Wilkner)
4986,298	31.8	2255	tent R Voz Christiana Huancayo noted again after several days absence. Disturbed by a 3 kHz whining sound centered on 4984,5. TN
5019			SIBS in this morning as Rebelde powered down 27 August (XM - Cedar Key)
5025			Radio Rebelde 1900 to 1905 - Isaac storm report live remote from Santo Domingo 25 August (Wilkner)
5109.74	24.8	0045	WBCQ , Monticello, Maine English talk about "The Land", strong on Thursday night, but only in AM and USB 35343 AP-DNK
5580.23			Radio San José , San José de Chiquitos , 0000 with weak signal on 29 August, 0050 to 0110 noted with mx and fair signal, deep fades 1 September (Wilkner & XM - Cedar Key)
5580.32	26.8	0030	R San José , San José de Chiquitos (p) Spanish talk 15321 AP-DNK
5921,3	30.8	2345	R Bethel, PRU , med kvinnlig skönsång. Inga svavelosande predikningar just denna gång. God hörbarhet. AN
5940.02	22.8	2235	Voz Missionaria , Camboriú, SC Portuguese talk by man and woman 45333 AP-DNK
5954.25			Radio Republica 0057 yl en espanol under massive jamming, 0100 yl with jamming dropping off to reveal clear signal. :-) 1 September (Wilkner)
5985,814	21.8	1500	Myanmar BC med lokal mx fram till 1500, sedan en massa QRM. AN
6010.00	22.8	2245	CNR 11 (Tibetan Sce), Sifangshan Tibetan ann, local music, 2300 ID, news (p) 35333, heard // 7360 (35333) and 9480 (35333) AP-DNK
6050	30.8	2350	R Fides, BOL , med inhemska dialekt. REL. Bra hörbarhet. AN
6104,969	22.8	2135	R Cultura Filadelfia (tent) weak as always. TN
6134.83	26.8	0020	R Santa Cruz , Santa Cruz de la Sierra Spanish ann and ID: "Radio Santa Cruz" said five times in ten minutes! Pop music 45333 AP-DNK
6160.04			UNID (Brazilian?), 2128-..., 18/8, [unreadable] talks & music; 14331, avoidable heterodyne w/ CAN on 6160.9. Received with the unterminated Bev. at 225°, so in theory the signal could also come from NEast. Carlos Gonçalves
6160.90	26.8	0025	CKZN , St. John's, New Foundland English ann, song and talk; still Off frequency 24232 AP-DNK
6164,955	22.8	1815	R Chad (tent) with AA px. Zambia seemed to have tx trouble this evening, only noted a carrier on 6165 between 1810 to 1815 TN
6165	31.8	2130	ZNBC Radio 2 quite good this evening with mx. TN
6165	25.8	2155	Several stations here, tent. Voice of Vietnam from 2150 a few Hz lower than China at 2155 with an ID something sounding like "Shenzhou zhi Sheng Guangbo Tientai". VoV with ID and frequency ann. at 2153. TN
6165			R. Voice of Viêtnam , Xuanb Mai, 2233-2252, 17/8, H'mong, talks; 34432, adj. QRM de CRI in Portuguese on 6175 via Euro relay. Carlos Gonçalves
6170	31.8	2205	Scandinavian Weekend Radio , Virrat English in Tricky Trev's Night Train 33232 terrible noise on 6170 and from *2200 QRM CRI in Spanish on 6175 AP-DNK
6170	1.9	2030	Scandinavian Weekend Radio med musik presenterad på finska. 2 CB

6173.9			Radio Tawantinsuyo , Cusco 1030 to 1052 with om long talk 30 August (Wilkner)
6173.92	26.8	0035	R Tawantisuyo , Cusco (t) Spanish talk, but very weak signal 14211 AP-DNK
7105	21.8	1830	Bangladesh Betar på denna frekvens denna kväll. Tydligt pågår fortfarande tester för att bestämma vilken frekvens som fungerar bäst. 4 CB
7120	31.8	1830*	Yesterday 31 august I could follow Radio Hargeisa on 7120 kHz from 1715 to 1830 UTC when signed off. They broadcast good HOA music. Signal around 6-7 and good modulation. Bernardini
7250	20.8	1750	Bangladesh Betar med nyheter på engelska. Lvällen innan var man på 7105 kHz. 3 CB
7265	01.9	1120	Hamburger Lokalradio , Göhren German ann, songs in Plattdeutch, 1100 jazzmusic 45444 AP-DNK
7295			Traxx FM via RTM, Kajang, 1642-1706, 21/8, English, pops, Ts at 1700, talks, more music; 35332, a bit improvement after 1700. Carlos Gonçalves
8113u			VMW Australia Weather 1023 to 1030 longitude given ID by om // 6230 weaker. 1 September (Wilkner)
8989u			Nicaragua "Pescador Preacher" 0000 to 0020 impassioned Minister with Spanish sermon 26 August (Wilkner)
9558.56			R. Ethiopia , Geja Jawe, 1444-1500, 21/8, Arabic (p), talks; 25342, adj. QRM at 1500. Carlos Gonçalves
9580			R. Australia , Shepp. VIC, 0917-..., 21/8, English to the Pacific, "PM" prgr (p), Business & Finance, news+sports rpt; 44433, adj. QRM de MRC 9575. Carlos Gonçalves
9660			R. Australia , Brandon QL (10 kW), 2109-2128, 19/8, English to the Pacific, webpage ann., "AM" prgr; 33432, adj. QRM. Best received via the K9AY loop antenna. Carlos Gonçalves
9705			La Voix du Sahel , Goudel, 0752-0920, 18/8, Vernacular, talks, prayer around 0800, more talks; 35433. Silent on occasions. Carlos Gonçalves
9745	21.8	2050	Voice of Kuanghua , Kuanyin Chinese talk, Chinese song 25222 AP-DNK
11720	01.9	0805	Scandinavian Weekend Radio , Virrat Finnish report from the FDXA 50th Summermeeting, BUT AT 0834-0839 THE START OF MY PRESENTATION IN ENGLISH "DX-ING ALONG THE PAN AMERICAN HIGHWAY", 0900 English ID: "This is Scandinavian Weekend Radio", address: P. O. Box 99, FI-34801 Virrat, Finland 25232 AP-DNK
11735	21.8	2020	Zanzibar Broadcasting Corporation , Dole, Zanzibar Swahili talk, romantic songs with Indian flavour (Bollywood ?) 45444 AP-DNK
12133.50U	26.8	2235	AFRTS feeder , Saddlebunch Keys, Florida English conversation with a bit of a song, 2230 Hurricane forecast, Republican Convention in Tampa, ID, 2233 news. The transmitter shortly after was hurt by the hurricane Isaac! 35343 AP-DNK
13675	25.8	*1230	R Free Asia , via Tinian Islands Burmese ann, fanfare, news and reports by man and woman 35233 AP-DNK
13830	25.8	1245	R Free Asia , via Dushanbe, Tibetan talk and music 45343, heard // 11605 (33332) jammed by Voice of China, heard // 11925 AP-DNK
14950,7	1.9	0835	Salem Estéreo, CLM , vid denna tidiga/sena timme! Svag signal, fick koppla in preamp. Ingen vidare hörbarhet, brukar gå bättre efter 23z. AN

Interesting notes:

4754.87 Unid. ZY heard here the last couple days both in the AMs and PMs. A lot of tlk. Rom. ZY song 0057. 0100 fanfare, M annr 0101 and canned anmnts. A little too weak and too noisy for ID. Hrd on Perseus with new Wellbrook ALA1530S+ testing it out. (1 Sept. Dave Valko via HCDX) (See above, reactivation of *R Imaculada*. /TN)

6015 ZBC Radio, Dole. Sept, 2, 2012. Sunday. *0300-0401. Tx on at *0300 with time pips, YL talking Swahili, followed by OM, then Koran at 0301. Normal programming right through to time pips at 0400, by which time reception was getting noisy (our local dawn) so I stopped listening. Fair. Jo'burg sunrise 0419. (Regards, Bill Bingham via DXLD).

6159.98 CKZU Vancouver, 0830, English, better than presumed CKZN high side but still tough copy with conversation between two men; best in LSB. Still another het in this area (high side) which has yet to produce audio. 26/8 (Sharp)

7120 Please be aware that **R Hargeisa**, Somaliland can now be heard on 7120 until 1900*. AP-DNK

Re the unids on 6075,245 and 6159,986: At 2200 (Aug 19) I don't have anything on 6075,245 kHz. The Brazilian on **6159,986 kHz** is **R. Boa Vontade**, heard via the Brazilian remote rx (Globaltuners) and audio compared with the web stream.

/Mauno Ritola

Station news

CANADA 6159.99 CKZU 0959 end of BBC pgm "Heart and Soul". 0959 pgm outro by own M annr (Jeff ??) w/ment of CBC Radio One, then "technology for gearheads" promo for Sundays "Sparks" pgm, followed by promo for "Babel" w/host Mariel Borelli.

1000-1004 CBC Radio One news starting w/ID by W. Stories about search of survivors in collapsed building, 1st degree murder charge in death of a police officer, complaint abt Dogs on someones property, fight against bacterial "superbug", recall of police cars, and web donating for Vancouver ballet fundraiser. 1004 ID and pgm intro by M as "I'm ?? and you're listening to CBC Radio One. Time now for ?? a program ?? intreging and unusual stories that are broadcast on the BBC 27 different world service programs". 1005-1031 Two BBC pgms with first W host focusing, of course, on the Olympics and unusual Olympic stories. Many many journalist reports w/sound bites. The other then followed w/M host. Couldn't get the pgm names. 1031 pgm by Deutsche Welle then. Fair strength, No QRM from CKZN 6160.8 when listening in LSB, but did get a het from another stn fading in around 1010 on 6160. Moderate QRN static crashes. Heavy quick fading. Poor overall. (12 August , Dave Valko via HCDX)

BANGLADESH. 15505, Bangladesh Betar, 1527-1545*, August 22. This is the strongest frequency and time for me to hear them; subcontinent music and in Hindi; ID at sign off. MP3 audio at <https://www.box.com/s/3760f1f1eac6356d545d> (Ron Howard, Asilomar State Beach, CA, USA)

EQUATORIAL GUINEA. 15190, Radio Africa, 1435-1448, August 31. Good signal; program #630, which was originally recorded on April 24, 2008 (per Alamo website); Sharon Alamo reading bible verses and Tony Alamo commenting; gave contact info and ends with Marty Robbins singing "You Gotta Climb". <https://www.box.com/s/j03n2i0x9xa8m2a2ucmy> contains MP3 audio (Ron Howard, Asilomar State Beach, CA, USA)

INDIA. 4850, AIR Kohima, 1210-1401*, August 22. In English, vernacular and Hindi; religious songs; repetitive indigenous songs; 1302 normally heard ID and scheduling in English; 1314-1324 tx off the air; 1340-1350 news in Hindi; 1350-1400 news in English; poor to almost fair at times, with CW QRM. August 25 off the air; not heard at checks at 1241 and 1320 (Ron Howard, Asilomar State Beach, CA, USA)

INDONESIA. 4869.95v, RRI Wamena, 1152-1226, August 28. Only the third time this month that they have been broadcasting during this time period! EZL pop songs; 1159 Love Ambon(?) into Jakarta News relay; patriotic song "Dirgahayu Indonesiaku"; poor. News and song // 3325 RRI Palangkaraya, 4749.95 RRI Makassar and 9860 RRI Jakarta. RRI Wamena audio streaming can be heard at their website <http://rriwamena.com/streaming-radio> .

4749.95, RRI Makassar. August 28 (Tuesday) not a good day here due to heavy QRM from both CNR1 and Bangladesh Betar. Years ago the KGI show was 20 minutes long, but is now a half hour; 1320-1350 with the weekly "Kang Guru Indonesia" program in English; presented by Kevin and Ana with quiz about Indonesia; song by Colin Hay (Scottish-Australian) "Overkill"; asked people what they would like to change about Indonesia ("keep country clean" because people throw garbage into rivers); KGI has two theme songs: Men At Work "Down Under" and Dionne Warwick "That's What Friends Are For" (Ron Howard, Asilomar State Beach, CA, USA)

9526.0, Voice of Indonesia. After being off the air non-stop since July 27, they are finally back! August 31 heard from 1201 to 1225 in Japanese; poor. Also noted by Glenn at 1448 today (Ron Howard, Asilomar State Beach, CA, USA)

KOREA SOUTH. 5900, MND Radio (presumed), 1246-1248*, August 24. Korean song; no jamming today so good reception; // 6760 fair with light jamming; normally both heard with heavy jamming (Ron Howard, Asilomar State Beach, CA, USA)

MALAYSIA. Wai FM via Kajang (near Kuala Lumpur, Malaysia) on **11665** continued their programming till 1600 on August 22, when they changed over to Sarawak FM programming and became // 9835 (Sarawak FM) with singing National Anthem (Negaraku – Lagu Kebangsaan Malaysia); fair on both 11665 and 9835 (Ron Howard, Asilomar State Beach, CA, USA)

MALAYSIA. 5964.71v, Klasik Nasional via Kajang site (near Kuala Lumpur), 1228-1245, August 20. In vernacular with pop songs; Muslim call-to-prayer for the Isha (night) prayer; frequent IDs; fair. Has been off frequency now for many years. MP3 audio at <https://www.box.com/s/0ad835ac540b7750279f> (Ron Howard, Asilomar State Beach, CA, USA)

MICRONESIA. 4755.48, PMA-The Cross Radio. Someone again forgot to turn off the transmitter! 1312-1332, August 31. Christian songs; 1330 - "The Cross Radio is a Ministry of Pacific Mission Fellowship. You are welcome to join us every Sunday morning at 9 AM for our worship service"; fair. MP3 audio posted at <https://www.box.com/s/yaqc7czckn5b1qggsmlq> (Ron Howard, Asilomar State Beach, CA, USA)

MYANMAR[and non]. 5915, Myanmar Radio, briefly checked August 20 before strong CRI sign on at 1200; weak in vernacular with indigenous and pop music.

5985.83, Myanmar Radio, totally blocked at 1330 on August 20 by the strong sign on of ShioKaze which continues to use this alternative frequency (5985.0).

7110, Thazin Radio, 1430-1501*, August 20. In English; normal theme music and recorded intro; pop songs (Gloria Estefan "I Know You Too Well", etc.); mentioned religious freedom in Myanmar and gave info about the Buddhist Taung Pyone Spirit Festival held in the small village of Taung Pyone, located north of Mandalay; 1459 sign off announcement mentioning tomorrow morning "radiating on 639 kilohertz and 6 point 03 megahertz"; poor/QRN, but not too bad for summer reception. MP3 audio posted at <https://www.box.com/s/94a612f54429f778cd98> . Nice that they have this interesting English segment!

7200.13, Myanmar Radio, 1126-1223*, August 20. Reactivated again. Almost fair; noted // to a weak 7185.86. Many thanks to the timely tip from Wolfgang Bueschel who heard this via Queensland Australia remote unit on August 17 on 7200.091 and 7185.847. In vernacular with indigenous and pop music; audio good and bad; intermittent sounding white noise from their tx; suddenly off. MP3 audio posted at <https://www.box.com/s/f25d65b53751196cb421> . 1147, August 24. Poor audio (garbled!). Off the air August 25. Erratic!
(Ron Howard, Asilomar State Beach, CA, USA)

PAKISTAN 7512.312 Very odd signal of **Radio Pakistan Islamabad** API-4 transmitter carrying Persian service, noted on Aug 24 at 17-18 UT. Regular on 7510 kHz. But my tune-in was a little late around 1757 UT, and couldn't check the 9370 kHz channel tonight. (wb, wwdxc BC-DX TopNews Aug 24 via HCDX)

PAPUA NEW GUINEA. 3260, NBC Madang, 1151-1206*, August 25 (Saturday). DJ in Tok Pisin; pop Pacific Island songs; off in mid-song (the weekend, so no news at ToH); fair-poor. Consistently the strongest PNG at this time period! August 22 (Wednesday) noted same 1206*; went off in the middle of the news in English

3235, NBC West New Britain, brief random checks from 1146 to 1340, August 31. Found a segment about 1206 when tx was off the air, so seems they are still making adjustments, but found mostly working alright; again with no NBC National News relay at ToH; not as strong as yesterday.

3315, NBC Manus, 1342-1403*, August 31. In Tok Pisin; ID for "N-B-C Manus"; pop hit songs in English; off with singing National Anthem. Started almost fair, but faded down.

3235, NBC West New Britain, 1144-1405*, August 30. This has not been heard for about three years; we now know where the NBC technical team has recently been working to renovate transmitters. Not the usual NBC format; no NBC National news relayed at the ToH (1200 nor 1300); all the music played was Pacific Island songs; heard in vernacular and Tok Pisin.

3915, Radio Fly via Kiunga, 1357-1405, August 20. Eclectic selections of music; Stevie Wonder "A Place In The Sun", Kenny G "Winter Wonderland", Scottish bagpipe music (rare to hear this on SW!); almost fair. MP3 audio posted at <https://www.box.com/s/8a69d2a97eb6c5a157b0> . 5960 continues off the air (Ron Howard, Asilomar State Beach, CA, USA)

7324.95, Wantok Radio Light (presumed). Nice to still find this window of opportunity for reception; 1406-1430, August 31 with non-stop Christian songs and EZL instrumental music; 1424 open carrier of CRI started, with signed on at 1430; poor, but not too bad at all. <https://www.box.com/s/jvhy068hi9lpvu76plj5> contains MP3 audio
(Ron Howard, Asilomar State Beach, CA, USA)

PHILIPPINES. 17700, Radyong Bayan simulcast via R. Pilipinas, 0235-0330*, August 21 (Tuesday). Tuned in expecting the usual weekday programming in English, but instead found Tagalog, so I knew something different was going on; numerous IDs for "Radyo ng Bayan, 738 kilohertz on the AM dial, Nationwide"; fair signal strength, but poor audio; fairly garbled, but not enough to make it unintelligible; 0328 the only ID heard for R. Pilipinas, the Voice of the Philippines; National Anthem and off.

Suspect was a special program regarding the death of Interior Secretary Jesse Robredo, as his body had just been found at sea after looking for it for several days, after a plane crash. He had been a part of President Aquino's cabinet (Ron Howard, Asilomar State Beach, CA, USA)

SOMALILAND. Radio Hargeisa knows it is being heard abroad, but not yet in the US.

See <http://www.somalilandsun.com> There have been major internal problems. Apparently the delay in getting the station on the air, and missing the target date (and the promised inaugural bcst by the Somaliland president) brought to a head simmering internal problems.

The Minister of Information, known by the unfortunate nickname, Boobe, seems to used the delay as partial excuse to fire the technical director of the radio and TV, and another print media official. The "country's" president then fired Boobe and rehired the two previously fired officials. Until all this is sorted out, it is unlikely that anyone will bother to respond to any reception reports. I think that will come in due time, however. (Don Jensen)

Radio Hargeisa in Arabic received several Dxeer of Japan at 1545-1900*UT on 7120kHz on Aug.30. As ID "Idhaat al Hargeisa". <http://ani.atz.jp/FBDX/LogBBS/img/880.mp3>
http://www.youtube.com/watch?v=CU_yU6q16e0&feature=watch_response
(S.Hasegawa via DXLD)

UNID. 6160.064 UNID. Found a signal here at 1005. Couldn't get any audio because of CKZU so close by, and couldn't try USB because of CKZN above. Russia maybe?? Been following the Canadians here for the last couple weeks to get a good recording of Vancouver and have never heard another signal here. (7 August Dave Valko via HCDX)

R Rio Mar Logged by SHN on vacation in Santa Lucia/Dominica on July 17 at 1045 on 6160,06 with news, ID's, lengthy newscast, news from Amazonas, clear – fine reception, nothing on 9695 kHz. SHN-LCA (see SWB issue1751 /TN)

Yes, probably Rio Mar active irregularly. I checked them via GT at 1010 today Aug 21, but no signal. /Mauno Ritola in a mail to TN.

CHASQUI DX PFA – AGOSTO 2012

CQ, CQ, CQ...Aquí Pedro F. Arrunátegui para compartir algo con los que disfrutan y aman el DX latinoamericano, todas las horas son UTC, desde la tierra de los incas, les informo mediante este Quipus lo siguiente:

- 3329.54 PERU, R. Ondas del Huallaga, Huánuco, 24/07 11:05-11:35 44444** mx ID "Aquí al costado de radio Onda del Huallaga" px Encuentro con al felicidad id "Radio Onda del Huallaga cobertura total..." advs Caja de ahorro Piura.
- 4747.05 PERU, R. Huanta 2000, Huanta 20/08 22:20-22:50 44444** mx ID "Responde y llama yo escucho radio Huanta 2000, la primera..." mx tropical salsa advs en quechua y español.
- 4774.95 PERU, R. Tarma, Tarma, 8/08 11:10-11:45 44444** px Noticiero El Demolidor ID "Estas noticias nacionales e internacionales, las venimos desarrollando aquí en Radio Tarma internacional.." advs Universidad de los Andes, les brinda ahora les brinda ahora el estudio a distancia...
- 4826.55 PERU, R. Sicuani, Sicuani, 22/08 23:25-23:55 33333** ID "A través de Radio Sicuani" mx ID 6 y 40 para todo el Perú, en su Radio Sicuani" NOTA. 23:45 comenzó un fueete zumbido que casi cubría a la radio, fue necesario pasarme ha escucharlos en LSB
- 4865.00 BRASIL R. Verdes Florestas, Acre, 1/08 11:10-11:37 44444** advs propaganda política ID "Por Radio Verdes Florestas...."
- 5035.00 BRASIL, R. Aparecida, Aparecida, 14/08 23:50-00:30 44444** mx LA ID "Por Radio Aparecida..." advs
- 5039.15 PERU, R. Libertad, Junín, 23/08 11:05-11:35 33333** mx huayno advs conjunto musical Los Tigres del Perú, mxf huaylas. advs Casa Naturista Vicente de los Milagros nos encuentra en jirón San Martín 552 Barrio San Cristobal, Junín ID "Usted que esta en sintonía de Radio Libertad" mxf
- 5120.00 PERU, R. Ondas del Sur Oriente, Quillabamba, 22/08 22:20-23:15 44444** mx romántica LA ID "Por Radio Ondas del Sur Oriente.." advs joven El Batallón Quillabamba 84, te invita a enrolarte a nuestro glorioso Ejercito para servir en el Vraem. For more informations about **VRAEM** see www.peruviantimes.com/tag/vraem/
- 5909.92 COLOMBIA, R. Alcavarán, Lomalinda, 17/08 11:15-11:45 44444** px religioso (estudio bíblico) ID "Por Alcavarán radio.." mx religiosa.
- 6154.90 BOLIVIA, R. Fides, La Paz, 20/08 23:38-00:10 33333** hablan sobre la situación en Bolivia advs Banco Central de Bolivia" ID "Gracias a la gente que se comunica con Radio Fides 94.7 FM"

La recepción la he efectuado del 24/07 al 23/08 en compañía de mi sabueso Icom IC R72 acompañado del Mizuho KX-3, una grabadora Alesis Palm Track, una antena de hilo largo de 15 metros y una antena loop Muchos 128's /PFA

NOTA: Les adjunto una foto de la nueva ubicación de mi rincón DX en casa, al fin se dio espacio que quería, de ahí nadie me nueve... que no escuche mi esposa Juany, ja, ja

(Glenn Hauser via DXLD)



Other radio news

Broadband staggered beverage used by Martti Karimies

Here is an illustration of my broadside staggered beverage. After many years, in the beginning of January this year, I had again possibility to erect an aerial in southern Finland, not at home but this time at office!

First I had a single wire, a 720 meter beverage pointing to 255 degrees for hunting La Plata stations, but later in the spring, in the beginning of May, I replaced it to a broadside, staggered shorter beverage pointing to 268 degrees.

That new construction was eliminating man made noise from the industrial area, where my office is located, but was also directed to my favorite area, Southern Peru. Result was more than I expected.

The second night after erecting, fine signals from Bolivia which situation continued nearly the whole May and beginning of June and was starting again in the middle of July. So far it has offered me four new Bolivians on MW, Radio Andina 1390, Radio Integracion de Padilla 1470, Radio Amor de Dios 1480 and Radio Bendita Trinidad 1540 among few more which I was able to hear already with longer beverage 31st of March. The best catch so far is 250 watts Radio Nuevo Tiempo from Santiago on 1599.805 kHz.

This construction is giving around 5 dB more forward gain comparing to a single beverage, but also reducing the noise level, just now daytime noise level is -130 dBc with 3.0 kHz filter. In theory forward gain should rise 3 dB, but according to the Perseus that is a little more.



Beverages are 240 m long, separated 50 m and staggered around 10 m.



For phasing I use MFJ-1026 Phasing unit, which have served my phasing purposes now for more than 10 years. My first two wire phased solution is from 2002.

Phasing is offering constant result from 1200-1600 kHz which segment is the best for this kind of shorter beverage arrangement. Baluns are made by using Amidon's 114-75 toroid rings with 11/33 laps and feeding lines are made by Aircell 5 coax.

Grounding is made as good as possible using 4-6 stainless steel rods for all four places, at the feeding points and at the ends. Resistor values are 470 ohms.

For a non-skilled person factory made phasing unit is the easiest way to achieve good phasing results.

On the picture you can see that our industrial hall is locating behind beverage 2. It is creating some kind of reflector to that beverage and reducing signals backward more than 10 dB comparing identical beverage 1. Distance to the metal panel facade building is quite optimal, around $0,15-0,2 \lambda$.

This antenna arrangement has proved to work well. And it is easy to build. Better directivity could be achieved by using wider spacing between wires, or more staggering.

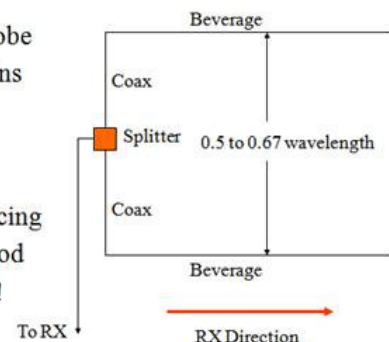
For forward gain there is not much influence between $0,2-0,7 \lambda$ spacing.

Our industrial site was limiting this as it is now, but I can't complain!

(Martti Karimies)

Broadside Phasing

- Narrows frontal lobe
- Front/Back remains the same
- Fed in phase
- Multiband
- Require wide spacing
- 0.5λ spacing good
- 0.67λ excellent!



Staggered Beverage used by Jurgen Bartels

A 300m beverage has a nice small front lobe but its F/B ratio is not really good, an EWE outperforms it easily but unfortunately has a broad front lobe. Desirable is a combination of both.

Some good approaches to improve beverage F/B are [here](http://www.kkn.net/~n2nc/bev_arrays/) (http://www.kkn.net/~n2nc/bev_arrays/) and [here](http://www.w8ji.com/echelon-log_beverages.htm) (http://www.w8ji.com/echelon-log_beverages.htm) but their combiner rely on 90° phase shift, not wise for broadband (500-1600 kHz) that would require a stagger distance of 75 m at 1MHz. Dallas Lankford guided me onto the right track and suggested his QFDA combiner, that requires only a distance of 30 m.

Initially I used 30 m stagger distance and 10 m side by side separation. That improved F/B but did not give the expected attenuation of signals arriving from the sides. Thorough contemplating its working principle I concluded that for maximum reduction both distances should be identical, because the phase shifter shifts all signals by the same amount, not only the signals from the rear. That finally gave the wanted attenuation from the rear and from the sides.

Much later after some helpful tips by Neil Kaz I manage to simulate this structure with [4nec2](#) and found the simulation results pretty close to what I see in reality.

Results:

The left back sidelobe is reduced by an additional 15-20 dB compared to a single beverage. So the total F/B is even larger. This sidelobe was the most annoying for me, as it points to the south-southwest and signals arrive from there during my local morning. The right sidelobe points to east and signals from there are already well attenuated in the morning. To reduced that sidelobe would be nice but requires even more space

It works all over the MW band and this broadband feature is great when you want to record the entire MW band with Perseus.

However some specific transmitters sites from the side are not attenuated, I found that their level differs from antenna to antenna. The reason is unknown.

(Jurgen Bartels in <http://dx.3sdesign.de/> where you can find more information and also a schematic for the combiner. /TN)

Phasing bi-directional beverages

It may be possible to phase bi-directional Beverages in a broadside configuration but you will have to design and build some hardware. ON4UN's Low Band DXing book gives you a lot of information on phasing Beverages. The book doesn't tell you exactly how to do broadside arrays, but it gives you general requirements, which are not complicated. You may have to modify that purchased box because of the way the control signals are routed. You will need twice as many Beverages for each direction in order to phase them, and because the lobe bandwidth is narrowed, you will need about four times as many Beverages to cover all directions.

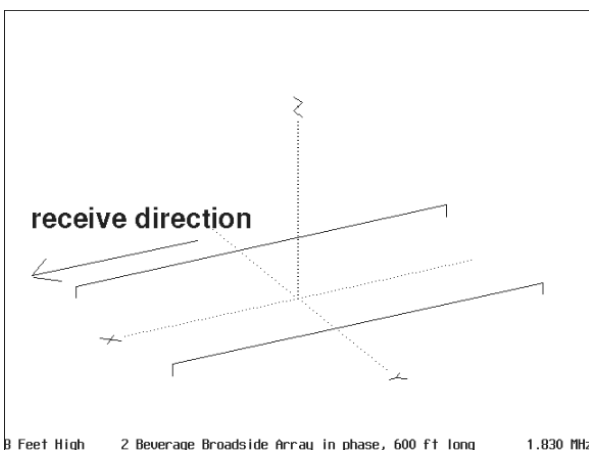
Beverages in end-fire will be a little more complicated because of the stagger requirement. ON4UN's book shows you how to phase single Beverages in end-fire, but it doesn't show you how to do it for bi-directional Beverages. That's where the design part comes in.

If you can't build a single bi-directional Beverage from scratch, I wouldn't recommend tackling phased Beverages, especially bi-directional phased Beverages.

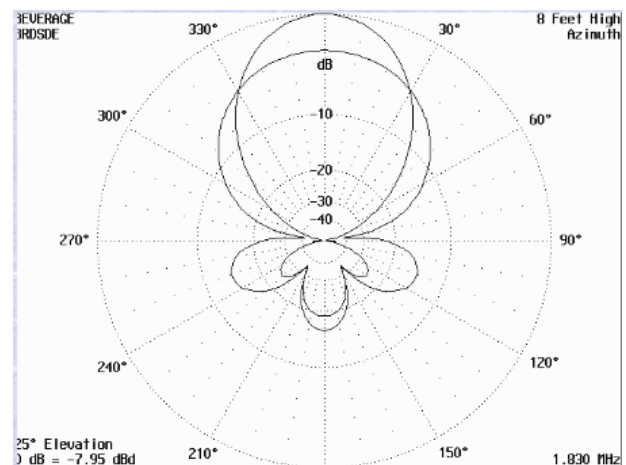
(Jerry, K4SAV in <http://forums.qrz.com/archive/index.php/t-169351.html>)

The Dallas Files are here: <http://groups.yahoo.com/group/thedallasfiles/>

Two Beverage Broadside Array



Pattern of 2 Element Broadside vs. Single Wire



Comparison of End-fire and Broadside Beverage Arrays (160 m amateur band)

Broadside	End Fire
Requires large amount of real estate	Real estate requirements similar to that of single Beverage
Easy to feed	Feed system more complex
Narrowing of azimuth beamwidth	Azimuth beamwidth preserved
Improved F/S ratio, 3 dB gain improvement over single Beverage	Improved F/B ratio, 3 dB gain improvement over single Beverage
Performance improvement realized over large bandwidth - eg: 1.8-3.5 MHz	Primarily a narrowband system - 1.8 MHz only

See more info at http://www.kkn.net/~n2nc/bev_arrays/ /TN

Perseus update in September

Studio 1 is not the "official" Perseus software. It's just an additional software product that I'm glad to bundle with the Perseus receiver at no cost for newcomers.

Studio 1 is offered in bundle with the Perseus hardware for free only through the distributors which agreed to sustain together with Microtelecom at least a small part of the costs of this initiative, namely AOR and WoodBoxRadio which serve the Japanese and the European users.

I've always thought that a company which claims to produce a SDR should be able to provide its own software instead of relying on someone other efforts.

The Perseus receiver is a mature product and deep evolutions of its software can't be expected. We have not stopped its development, though, and we are still working to improve what we think it should be improved. I hope to provide another software update in September.

Of course I'll be glad to provide a completely new software platform but I can't do this for free nor I'm convinced that we can get out of the current Perseus software more than we already did. I'm rather spending my time thinking to a new hardware platform which could go really beyond what I've already done in 2007.

(73s, Nico / IV3NWV)

Antenna project T2FD 20.06.2012

Carlos Goncalves in Portugal has found a very interesting website, Korpi.biz, where also Auvo, who operates OH1AYR, resides. OH1AYR has uploaded a very interesting article about their tests of the T2FD antenna.

OH1AYR says: *We have tested T2FD antennas for several years. Wideband T2FD type suits well for amateur radio stations general purpose antenna. It has low SWR; usually it works without antenna tuner on frequencies from 3.5 to 30 MHz.*

T2FD is fine listening antenna; it is rather immune to wide-band urban noise. T2FD works best with NVIS operations and digital modes.

Download the PDF files: http://www.korpi.biz/t2fd_2011.pdf and http://www.korpi.biz/t2fd_2012.pdf

Read the full story at <http://www.korpi.biz/oh1ayr.html>

(Carlos Goncalves)

Thanks, Carlos for interesting info! /TNs





Missing audio drivers

Regarding Lisette Åkesson's problems with missing audio drivers I got a mail from **Mauno Ritola** pointing out how a backup for simple restore of important system files and settings. Here is Mauno's advice:

One thing I want to remind about: to do a regular (in my case monthly) full Windows Backup. It creates a full image of the hard disk. I just got a lightning hit and the mother board was damaged so that the only way to get the computer work again was to reinstall Windows, even acc. to a specialist. Fortunately I had done the backup (or actually put it in Windows scheduler) on external hard disk and I could restore COMPLETE image of my system, with all programmes, drivers, settings etc. I could never have imagined that something in Windows would work so well! I think it saved about two weeks of my time. /Mauno Ritola

To back up your programs, system settings, and files (from windows.microsoft.com)

1. Open Backup and Restore by clicking the Start button , clicking Control Panel, clicking System and Maintenance, and then clicking Backup and Restore.
2. In the left pane, click Create a system image, and then follow the steps in the wizard.  If you're prompted for an administrator password or confirmation, type the password or provide confirmation.

Keeping different versions of system images

If you're saving your system images on an internal or external drive, or on CDs or DVDs, you can keep several versions of system images. On internal and external hard drives, older system images will be deleted when the drive runs out of space.

To help conserve disk space, you can manually delete older system images. For more information, see [What backup settings should I use to maximize my disk space?](#)

If you're saving your system images in a network location, you can only keep the most current system image for each computer. System images are saved in the format of drive\WindowsImageBackup\computer name\. If you have an existing system image for a computer and are creating a new one for the same computer, the new system image will overwrite the existing one. If you want to keep the existing system image, you can copy it to a different location before creating the new system image by following these steps:

1. Navigate to the location of the system image.
2. Copy the WindowsImageBackup folder to a new location.

Further comments from Mauno Ritola:

Yes, that's the place, I don't use any external software, only external hard disk. I have it scheduled to do the full disk image including data file backup and system image. System image is overwritten each time (the bigger one in my case), but data file backup will be saved with each backup and you need to delete the older ones, if you run out of space.

The most important thing in recovery was to choose the correct option:

NOT "Restore all users' files"

NOT "Select another backup to restore files from"

but "Recover systems settings **of your computer**"

That made the trick and brought 'back alive' the complete system.

In addition to monthly Windows Backup I do a daily backup of most important files and email folders with Cobian Backup (an application from Umeå!) to a USB stick. /Mauno Ritola

Welcome to the Virtual Museum of Radio Communications!

Regarding Ptp and other Utility recordings, have a look at <http://www.utilityradio.com/>

I submitted all my audio recordings and QSL pics from the 70s and 80ies to Rainer Brannolte who is operating this pages. (vy 73, Willi Passmann via Perseus_SDR)

Antenna Galvanic Isolators & Filters

These two items were recently drawn to my attention, does anybody have hands on experience of either or perhaps an informed opinion.

- 10KHz to 60MHz Antenna Galvanic Isolator System for SDR radios
- USB Galvanic Digital Isolator for SDR radios

See http://www.herostechnology.co.uk/pages/RF_Filters/filters.html#DISO
(Regards to all, Stephen via Perseus_SDR)



Stephen, as previously mentioned on list (search for "Perseus usb isolator"), this kind of USB isolator is not suitable for Perseus, and neither for high-end DDC/QSD radios, because it doesn't support high speed data rate.

In any case, I own this one (a kit, so it is cheaper):

<http://www.circuitsathome.com/products-page/usb-interfaces/adum4160-usb-isolator-board-bare-pcb-and-kits/>

I found it quite useful with the old versions of Softrock and PMSDR, together with a galvanic isolator on antenna side, in order to delete the peak, and provide them clean power (instead of derive it from USB).

The most recent versions of Softrock come already equipped with USB isolators.

For what concern the antenna isolators, if you search into the list archive, Alberto I2PHD posted his single toroid design, cheap and effective. (Andrea Montefusco, IW0HDTV via Perseus_SDR)

It costs me very little to post again the photo of that simple galvanic isolator. Just make sure to use a high permeability ferrite, and maybe increase the number of turns. 8 bifilar turns would be quite adequate. (Alberto I2PHD, via Perseus_SDR)



FORMER HOSTAGE DRIVES OPENING OF REGIONAL RADIO STATION IN PERUVIAN JUNGLES (Aug. 24, 2012 - by Harold Goerzen)

More than 200,000 indigenous people hidden deep in Peru's northern jungles can hear Christian broadcasts — many for the first time — as the result of a cooperative project with the Summer Institute of Linguistics (SIL), a local church and HCJB Global.

Spearheading the project was veteran SIL missionary Ray Rising who became well known after being kidnapped by Colombian guerrillas in 1994. He was held captive for 810 days before being released unharmed in 1996. Years later he met with some of his captors in prison, sharing a clear gospel message with them.

Today he's using his skills to share the good news via the airwaves, broadcasting on a TB1000 (1,000-watt, regional shortwave transmitter) built and designed by engineers at the HCJB Global Technology Center in Elkhart, Ind. The unit, installed with the mission's help in Chazuta, Peru, last month, is broadcasting a message of hope across the northern third of Peru as well as parts of neighboring Ecuador and Brazil.

"Praise the Lord for His miracles!" exclaimed Rising, SIL's ethnic radio manager, in an email message. "At 8 p.m. Saturday, July 21, Radio Logos went on the air, broadcasting several hours a day (4 a.m.-10 p.m.)." [0900-0300 UT]

"I rejoice in the Lord to let you know that [the station] is being an encouragement to those less fortunate people," added Pastor Jairo Sangama, the local radio partner. "We are very pleased to have the HCJB transmitter which is useful in communicating the Scriptures in the people's native tongues. We're now broadcasting in seven languages (Achuar, Bora, Junicui, Ticuna, Pastaza Quechua, San Martín Quechua and Spanish) and hope to incorporate more languages."

Sangama also expressed gratefulness to HCJB Global missionary Allen Graham for holding a five-day radio workshop attended by 29 people at the new station in mid-August, the third such training to be held in Chazuta, a town of about 10,000 some 500 miles deep in the Amazon.

"It was exciting to see the energy and enthusiasm of the participants from the different language groups as they learned how to prepare programs to reach out to their own people," Graham said, adding that participants represented seven Amazonian tribes.

"One of the goals of our radio training ministry in Latin America is to develop a network of like-minded Christian broadcasters who can come alongside HCJB Global team members in our workshop," Graham related. "In Chazuta I was accompanied by Kenny Lazo of Radio Arequipavisión. He did a fantastic job teaching and was well received by the participants. A practicing lawyer, Kenny has volunteered at the Christian station in Arequipa in southern Peru and is passionate about how radio can be used to reach people with the good news of Jesus."

The station is a landmark achievement for the area's evangelical churches that stemmed from a single congregation in Chazuta 50 years ago, born as the result of missionary work. Today there are 19 church associations representing 17 language groups in the Peruvian Amazon basin, accounting for more than 500 churches.

The project to install a Christian shortwave radio station culminated nearly two years of planning and prayer, dating back to December 2010 when 120 local church members began preparing the materials to build the station on a 1.2-acre plot donated by the municipality of Chazuta. The station includes recording studios, transmitting equipment and a hostel for those arriving to produce radio programs.

The first 15 radio volunteers were trained in January 2011, and after the studios were completed, they used the newly installed equipment to record 100 radio programs in four languages. The programs include public service announcements, Bible readings, music and special programming for children and women, including lessons based on the book, *Women of the Bible*.

The station's "impact statement" says it was established so "indigenous communities across the vast Amazon basin could be reached with the gospel by listening to broadcasts in their own language, transforming their lives. The listeners learn to live according to biblical principles and thus mature in their faith and thus demonstrate positive change of character."

This was the third TB1000 that HCJB Global has installed in South America in cooperation with Rising. The first two went to Bolivia to spread the gospel in the continent's central region.

Sources: HCJB Global, SIL
(HCJB Global newsletter Aug 20-24 via DXLD)