

The **NASA** Journal

VOLUME XLIII NUMBER 7

JULY 2004

 **RADIO
SLOVAKIA
INTERNATIONAL**



North American Shortwave Association — America's Shortwave Broadcast Club

Quality Equipment From Universal Radio

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The AOR AR5000A+3B offers exceptional spectrum coverage. Covering all the way from 10 kHz to 3 GHz (less cellular), this "DC to daylight" radio won't miss much! Modes of reception include: AM, FM-N, FM-W, LSB, USB and CW. Six bandwidths are supplied (3, 6, 15, 40, 110 and 220 kHz) and a slot for a .5 kHz filter is available. The triple conversion circuit and varactor tuned front-end provide excellent overload characteristics. And unlike most wideband receivers, the HF performance is excellent. Two thousand memories in 20 banks of 100 are featured. Other features include: two antenna inputs, antenna attenuator, keypad entry, computer control, squelch, S-meter and scanning. May be run from 12 VDC (1 Amp) or via supplied AC adapter. The "plus 3" version adds a Noise Blanker, AFC, more memories and AM Synchronous Detection. Visit our website or request a color brochure.

Order #	Model	List Price	Your Price
#0390	AR5000AB	\$3179.00	\$2449.95
#3705	AR5000A+3B	3399.00	2499.95

SPECIFICATIONS

Frequency Range	10 kHz - 3000 MHz*
Modes Received	AM *cellular blocked FM-Narrow, FM-Wide LSB/USB/CW
Intermediate Freq.	1st 622.2 MHz 2nd 10.7 MHz 3rd 455 kHz
Sensitivity	AM 10dB S/N: 6 μ V 1.5-30 MHz FM 12dB SINAD 3 -2 μ V 40-2600 MHz
Freq. Stability	\pm 1 PPM (0°-50°C)
Selectivity	3, 6, 15, 40, 110, 220 kHz
Frequency Steps	1 Hz to 999.999 kHz
Ant. Impedance	50 Ohm
Power	13.8 VDC \pm 15% at 1 amp
Dimensions	8.5" x 3.5" x 10" 10 Lbs.

OPTIONS

#3800	AS5000 Antenna Switch 3/4	\$114.95
#4256	CR5000 Recording cable	29.95
#3601	CT5000 CTCSS Decode	98.95
#4257	DC3000 DC Power cord	8.95
#3852	MF500 Collins Filter 500 Hz	99.95
#0114	SDU5600 Spectrum Display	1449.95
#3871	TV5000A NTSC TV-Video Adapter	369.95



ICOM R20

NEW

Tune in the world where ever you go. The ICOM R20 has extremely wide coverage from 150 kHz to 3304.999 MHz (less 824-849 & 869-894 MHz cellular). Modes of reception include: FM, WFM AM, USB, LSB, CW. This radio has two VFOs with dual watch capability. A built-in 32 MB IC audio recorder can record 1, 2 or 4 hours of reception (playback quality will be less on 2 or 4 hour settings). A total of 1250 memories are featured: 1000 regular, 25 scan edge and 200 auto-write scan. And this is Icom's fastest scanning radio at 109 channels per second in VFO mode. Enjoy three types of priority watch: Memory Channel Watch, Memory Scan Watch and VFO Scan Watch. CTCSS/DTCS/DTMF decode is built-in. The large two line dot-matrix LCD can be programmed for 8 character channel names. You can "see" your signals with the built-in band scope. The sweep range can be set from \pm 14 kHz to \pm 1400 kHz. Other advanced features include: Voice Scan Control (opens squelch only when a modulated signal is detected), Auto Squelch, Attenuator, key lock, RF Gain, Noise Blanker, ANL and AF filter. A built-in ferrite bar antenna improves medium wave reception. Weather channels and weather alert (USA version only) are featured. CI-V PC control

compatibility is supported with optional CT-17. PC programming is available via the optional CS-R20 software CD (with USB cable). The special "Set Mode Menu" allows you to tailor many operational parameters to your personal taste including: Priority Watch, Key-touch beep, beep level, power save, NB/ANL/AF filter functions, AM antenna selection, scope audio, dial speed, etc. Your R20 is preprogrammed with TV and popular shortwave channels. The R20 comes with: BC149A wall charger, BP206 Li-ion battery pack, MB-98 belt clip, battery spacer, telescopic antenna and wrist strap. Please call or visit the www.universal-radio.com website for further technical information, and up to date pricing information. A full color 24 by 36 inch spectrum wall chart will be included for a limited time with your R20 purchase from Universal.
List #619.95 Order #0020 \$499.95

SPECIFICATIONS

Frequency Range	150 kHz - 824 MHz 849 - 869 MHz 894 - 3304.9 MHz
Modes	AM, FM-N, FM-W, CW, LSB and USB
Frequency Step	1, .5, 1.5, 6.25, 8.33, 9, 10, 12.5, 15, 20, 25, 30, 50, 100, 200 kHz
Sensitivity	AM 1 μ V 5-200 MHz! 849 - 869 MHz CW 25 μ V 5-200 MHz! FM-N 32 μ V 5-200 MHz! FM-W 1 μ V 75-200 MHz! FM-W 2 μ V 200-340 MHz!
Selectivity	AM, FM-N 12 kHz \pm 6 dB FM-W \pm 150 -6 dB SSB, CW \pm 3 kHz \pm 6dB
Antenna Jack	BNC (50 ohms)
Output Power	100 mW 8 ohms 10% Dist
Dimensions	2.3"W x 5.7"H x 1.2"D 5.8 W x 140 H x 31 D mm
Weight	10 oz (300 g) (10 dB S/N) (12 dB SINAD)

OPTIONS

#	Model	Item Description	Price
1445	BC-155	AC Rapid Charger	T.B.A.
3678	BP-205	Li-ion Battery 3.7V	\$46.95
0498	CP-18A	Cigarette Plug & Filter	22.95
1493	CS-R20	Win Clone CD & Cable	T.B.A.
2771	CT-17	Level Converter	129.95
3517	MB-86	Swivel Belt Clip	7.95
1454	LC-158	Carrying Case	T.B.A.
0940	SP-13	Mono Earphone	3.95

PAR ELECTRONICS EF-SWL



The Par EF-SWL is an end-fed short wave antenna optimally designed for 1-30 MHz reception. The radiator is 45 feet of genuine #14 gauge black polyethylene coated Flex-Weave wire (168 strands of #36 gauge woven copper). This material is very strong yet can easily be coiled like a rope for portable work. The UV resistant matchbox houses a wideband 9:1 transformer wound on a binocular core. Unlike other transformers, external stainless studs on the matchbox allow the user to configure the primary and secondary grounds for best noise reduction at their particular location. Output is via a silver/teflon SO239 UHF connector. The radiator also attaches via a stainless stud allowing it to be removed, or replaced with a different length radiator for experimental purposes.
Par EF-SWL Order #2205 \$57.95

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N4WA Notes

Richard A. D'Angelo • 2216 Burkey Drive • Wyomissing, PA 19610 • rdangelo3@aol.com

Something new is always happening in the shortwave radio world. Stations come and go but you can always count on clandestine operations to launch new efforts in some part of the world. Unfortunately, most of these political entities use high-powered relays as opposed to secret hidden transmitters that added an important element to the drama. On June 18th, the Reform Party of Syria announced that the first ever pro-Democracy grassroots based Radio Free Syria (RFS) that was scheduled to go live on June 20 at 9:00 PM local Damascus time, 1800 UTC, on 13650 kHz. The radio station expected to be heard in Syria, Lebanon, Jordan, Saudi Arabia, Egypt, Iraq, Israel, Turkey, Yemen, Qatar, Kuwait, Bahrain, UAE, and Oman concentrating on educational and entertainment programming as well as programs about democracy and the rule of law. A team of Syrian broadcasters, journalists, and writers will manage the station. RFS intends to build up to 5 hours a day by year-end. Their website (and who doesn't have a website these days?) is: www.radiofreesyria.org.

The summer convention season is here and the *Calendar of Events* is exploding with opportunities to meet and greet other hobbyists. Here is a brief rundown of some of the events planned for the upcoming months.

The International Radio Club of America will hold its annual convention on 23-25 July 2004 at the Rodeway Inn, 1110-5 North Curtis Road, Boise, ID 83706 (208-376-2700). Room rates are a modest \$59.95. Registration is \$25.00. For further information contact **Frank Aden**, 4096 Marcia Place, Boise, ID 83704 or IRCA2004@aol.com.

The Worldwide TV FM DX Association will hold its annual convention in Omaha, NE on 30 July-1 August 2004 at the Park Plaza Re-

gency Lodge hosted by long-time members **Matt Sittel** and **Michael Hawk**. The tentative schedule includes a cookout at the Sittels' Thursday night for the early arrivals. Friday will include a tour of E-skip magnet KMTV channel 3, followed by dinner at a nearby restaurant (not included in the registration price) and the club's business meeting. Saturday's events include the WTFDA quiz, door prizes, and the banquet (a barbecue buffet). There will be a series of talks about DX, and they plan to have RDS and DTV setups in action because late July and early August can bring about amazing all-day tropo in this part of the country. Contact **Matt Sittel**, 15013 Eureux Street, Bellevue, NE 68123 or mcsittel@cox.net for further information or to ask any questions.

The 10th International DX Meeting in Mexico will be held 30 July through 1 August 2004 at the Instituto Veracruzano de la Cultura (Veracruz Institute of Culture). More information is available from **Cesar Fernandez** at fedela@hotmail.com.

The 11th Annual Madison-Milwaukee Get-Together for DXers and Radio Enthusiasts will take place on Saturday, August 21, 2004 from 1:00 PM CDT to whenever at the Sheridan Park, Cudahy WI, on the Lake Michigan shore at Layton Avenue in south suburban Milwaukee. This is an all-band event, and everyone interested in the radio hobby is welcome. Further information can be obtained from **Tim Noonan** at [<DXing2@aol.com>](mailto:DXing2@aol.com) or 414 762-2702.

The National Radio Club will hold its annual Labor Day weekend gathering in Batavia, NY on 2-5 September 2004 at the Days Inn. Rooms are available for \$72.00 per night, up to four in a room. You should make your reservations direct at 585-343-1440. The

OUR MOTTO IS - "UNITY AND FRIENDSHIP"

2004 NRC Convention plans to break new ground by spanning two nations. Station tours of Canadian radio stations are planned. For more information contact co-host **Scott Fybush** at scott@fybush.com or 585-442-5411.

Closing out the convention season is the 30th anniversary bash that the Ontario DX Association (ODXA) will be celebrating at RadioFest 2004, September 24-26, at the Monte Carlo Inn—Oakville, 374 South Service Road E., Oakville, Ontario, L6J 2X6, CANADA. Tel: (905) 849-9500, www.montecarloinns.com/oak.htm. Friday night will kick things off with a wine and cheese reception. Saturday will be a full day of activity with items for sale, a silent auction, displays, guest speakers, and the draw for Raffle 2004. The ODXA will be welcoming back former member and former CBC broadcaster **Ian McFarland** host of "Shortwave Listeners' Digest" on Radio Canada International. Also scheduled to attend is **Dr. Kim Andrew Elliott**, of Voice of America audience research and former program producer, and **Alan Heil**, former VOA program director. Weekend registration costs just \$10.00 CDN (\$7.00 US), which includes the Friday Wine & Cheese gathering. For more information, contact **Harold Sellers** at 905-853-3518 email: listeningin@rogers.com or **Brian Smith** at am740@rogers.com or by mail at: ODXA, 155 Main Street N, Apt. 313, Newmarket, Ontario L3Y 8C2, Canada. Happy 30th anniversary to our friends up north!

Don't forget to get yourself a copy of the *Domestic Broadcasting Survey* (DBS) edited by well-known International DXer **Anker Petersen** and published by the Danish Shortwave Listeners Club in Denmark. The 2004 DBS is an excellent resource that should be in the shack of any DXer that tunes the tropical bands, domestic stations and clandestine stations. Published in PDF format, the DBS is available for EUR 5 or US\$7.00 from club Treasurer **Bent Nielsen**, Egekrogen 14, DK-3500 Vaerloese, Denmark. A comprehensive review of the DBS appeared in last month's *Shortwave Center*.

Mike Wolfson and the *Company Store* still has available plenty of great reading material and a full line of tee shirts, sweatshirts,

coffee mugs, and beer mugs. Everything the *Company Store* has is available by mail order. The important details are in Mike's *Company Store* column. Order now!

The continuing changes in the shortwave broadcast landscape continued in June with the First Church of Christ, Scientist, in Boston, Massachusetts announcing the sale of its shortwave station, WSHB, South Carolina, to LeSEA Broadcasting Corp., in Indiana. The \$2 million sale will take place once the FCC has completed its review of the agreement. Early in 2004, WSHB announced plans to cease its broadcasts after determining that the church didn't need to actually own facilities to reach a worldwide audience. WSHB commenced shortwave operations in 1989.


We are in the midst of the summer DX season but there is still plenty of action on the bands. The best way to stay on top of breaking shortwave news and information is with the club's electronic *Flashsheet*. If you are a current member of the club and want to receive the electronic *Flashsheet* just drop **Rich D'Angelo** (rdangelo3@aol.com) a note with your e-mail address, location and membership expiration date from your mailing label. You can participate by sending your latest logs to the electronic *Flashsheet* edited by **Sheryl Paszkiewicz**, spasz@dataplusnet.com or P.O. Box 716 Manitowoc, WI 54221-0152. Each week the electronic *Flashsheet* brings a lot of exciting, late breaking DX news and information to our members. The electronic newsletter is an excellent supplement to the monthly *Journal* for the timely dissemination of DX loggings and breaking news. This is a service that is only available to our members. Deadlines are posted in the *NASWA Flashsheet* each week.

From time-to-time, members change e-mail addresses but unfortunately, they forget to inform me so that I can keep the *Flashsheet* distribution list up-to-date. This month's missing *Flashsheet* member is **Scott Newman**. Scott, please get in touch with me so I can update the distribution list.

Please remember to direct all communications about subscriptions, bulletin delivery issues, the use of PayPal as a payment

method, etc. to **Bill Oliver** at the club's Levittown address or to his electronic address, weoliver@comcast.net. The regular postal address is the familiar 45 Wildflower Road, Levittown, PA 19057. Inquires sent to

Wyomissing only slow down the process. Thanks!

That's it for this month. Enjoy this month's edition of the *Journal*; it's another good one. 

FRENDX: Twenty Five Years Ago (July 1979)

Roll Call welcomed 46 new members, including Chuck Boehnke, in a "slow" month while acknowledging renewals for Bill Matthews (14th year) and Hank Michalenka (13th year). Both members go back to the early days of the club and were former editors. In the *Shortwave Center*, Andy Robbins wrote "The QSL From the Small Broadcaster's Point of View." Bill Whitacre provided "An On Paper Preview of the New Drake R-7 General Coverage Receiver." Al Sizer provided tips into "Verifying the Russians." John Kapinos reviewed the Torrestronics Digital Frequency Readout while David Snyder provided the Propagation Outlook. In the *QSL Report*, Sam Barto mentioned that he had over 40 names of folks planning to attend the New England Area DXers Outing on September 9th. Tom Gavaras announced that he would be stepping down as *Log Report* editor as soon as a replacement could be found. *Frendx Credits* featured: Brian Alexander, Ernie Behr, Larry Brookwell, Paul Buer, James C. Clifford, Larry Cunningham, John M. Fisher, Robert Fraser, Glenn Hauser, Charley Hoffman, Jack Jones, Rufus Jordan, Terry Krueger, Richard McVicar, Kevin Mikell, Don Moore, Tim Noonan, Jay Novello, Brett Saylor, Beverly Slomka, Dave Valko, Dave Wallcutt, and Robert Zilmer.

Calendar Of Events

- Jul 16 Meeting. Philadelphia Area NASWA Chapter.** Kulpsville Holiday Inn, Kulpsville, PA at 7:30 PM. For more information contact Dan Cashin at 610-446-7831 or Internet: dcsckp@aol.com.
- Jul 16 Meeting. Boston Area NASWA Chapter.** The Boston Area DXers have found a new location for meetings. Inquiries about the BADXers may be sent to Paul Graveline at 978-470-1971 or Internet: ctreditor@aol.com. The URL for the BADX guys is <http://www.anarc.org/naswa/badx/>
- Jul 23-25, 2004 Convention.** The **2004 International Radio Club of America (IRCA)** convention will be held at the Rodeway Inn (115 North Curtis Road, Boise, ID 83706 or 1-800-272-5003) from 23-25 July 2004. Room rates are \$59.95, which includes a continental breakfast. Convention fee is \$25.00 to Frank Aden, 4096 Marcia Place, Boise, ID 83704. E-mail inquires can be sent to IRCA2004@aol.com.
- Jul 30-Aug 1 Convention.** The **Worldwide TV FM DX Association** will hold its annual convention in Omaha, NE on 30 July - 1 August 2004 at the Park Plaza Regency Lodge hosted by long-time members Matt Sittel and Michael Hawk. The special WTFDA rate is \$79, and includes many amenities, including hot breakfast. Contact Matt Sittel, 15013 Eureux Street, Bellevue, NE 68123 or mcsittel@cox.net for further information or to ask any questions.
- Jul 30-Aug 1 Convention.** The **10th Annual Mexican National DX Meeting** in Mexico will be held 30 July through 1 August 2004 at the Instituto Veracruzano de la Cultura (Veracruz Institute of Culture). More information available from Cesar Fernandez at <mailto:fedela@hotmail.com>.

Aug 14 Meeting. The Cincinnati/Dayton Monitoring Exchange (MONIX) meets at the Lebanon Citizens' National Bank (LCNB), 425 West Central Avenue (Ohio 73), Springboro, Ohio at 7:00 PM. For more information contact Mark Meece at 937-743-8089 or e-mail at <antennapig@siscom.net>. For additional information about MONIX, check out their web site at <<http://www.siscom.net/~mmeece/monix.html>>

Aug 21 Get-together. The 11th annual Madison Get-together for DXers and Radio Enthusiasts will take place on Saturday, August 21, 2004 from 1:00 PM CDT to whenever at the Sheridan Park, Cudahy WI, on the Lake Michigan shore at Layton Avenue in south suburban Milwaukee. This is an all-band event, and everyone interested in the radio hobby is welcome. Further information, including directions and dinner plans, etc. will be published as received and also can be obtained from Tim Noonan at <DXing2@aol.com> or 414 762-2702.

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Mar 12-13, 2004 Convention. The 17th Annual Winter SWL Festival, sponsored by NASWA, will be held at the Best Western—The Inn at Towamencin (Kulpsville to the rest of us), located at Exit 31 on the Northeast Extension of the Pennsylvania Turnpike, on 12th and 13th March 2004. Richard Cuff and John Figliozzi co-chair the organizational committee. It's never too early to begin planning. See you there!

Members are invited to submit items to be included in this calendar to Rich D'Angelo (Internet: rdangelo3@aol.com) or Ralph Brandi (Internet: ralph@brandi.org).

On the Short Waves Update by Jerry Berg

<www.ontheshortwaves.com> Update, June 1, 2004—Under "Articles, Research, etc.," "Full-Text Articles," another E.H. Scott item, the 1939 Scott Foreign and U.S. Short Wave Tuning Guide. After you bought your Scott receiver, you could use this booklet to tell you how to tune and what stations to listen for. It features an introductory section, "How to Get Results On Short Waves," along with schedules of U.S. shortwave stations, a very nice list of stations worldwide, a world time chart, great circle map of the world centered on New York, and a list of U.S. CCB stations.

<www.ontheshortwaves.com> Update, June 12, 2004—Under "Articles, Research, etc.," "Recordings," a recording of the last "DX Partyline" that was produced by long-time HCJB radio personalities Helen and Clayton Howard. This recording was made on June 19, 1984 and was kindly provided by Chris Lobdell of Tewksbury, Massachusetts. Thanks, Chris. Also shown is a picture of the Howards, issued at the time.

Musings

This column provides a forum where members can express comments, ideas, and thoughts about NASWA or the SW radio hobby. Please feel free to comment on anything presented this month (or previous months). Opinions expressed here are solely those of the submitters. Please submit all Musings to Richard A. D'Angelo, 2216 Burkey Dr., Wyomissing, PA 19610 or via email: rdangelo3@aol.com.

David McLaren, 1904 1st Avenue #40, Rock Falls, IL

I would like to know if anyone can tell me what happened to the eight RCA RR*3 receivers that were removed from the VOA receive site "c".

Toshi Ohtake <ohtaket@yahoo.co.jp>, Tokyo, Japan

Hints for light weight travelers. My current travel companion is SW7 and LP2 combination and I am well satisfied with their performance. By my measurement: Radio with chargeable battery 280 grams, LP2 antenna including adapter 270 grams. I don't use their accessory power pack (350 grams), but carry an universal battery charger (90 grams, AC plug converter extra) which can charge 4 UM3 batteries or 2 UM3 and 2 UM4s. During my travel, I charge 2 UMS for radio use in daytime and 4 UMS for a digital camera at night. I also use an IC recorder (70 grams with earphone) for recording. They are capable to record 32 hours of voice using 128 MB SD memory. The above charger can charge their 2 UM4 batteries.

HCJB's Japanese Program celebrated its 40th anniversary on May 1st. I was checking the signal in Europe and only successful to receive their program at UT 1300-1330 on 15405 kHz from Australia to South East/South Asia in Paris. Two other transmissions were not successful. During UT 0900-0930 transmission from Australia I was on Eurotrain from London, and UT 1130-1230 transmission on 15530 kHz from Quito to Japan there was no signal in Paris using ICF-SW07 and LP2 antenna hung on the window of the 4th floor room of the hotel in front of Gare du Nord, Paris, International Railway Station.

73, Toshi

Eric Falkenhan <wa3tad@comcast.net>, 10 Weyfield Court, Baltimore MD 21237.

Well its summertime and the DX is challenging to say the least. Time to work on antennas I guess. There's an old saying in the ham radio community though. Antennas only work if you put them up on a cold winter day or in the middle of a stormy night. I hope that's wrong for you smart ones that work on your antennas on the nice days.

Another summertime past time is *hamfests*! Yes it's time to look for yet another radio to add to your shack. For me it's looking for those old radios that got away from me. I have been on a nostalgia kick lately. I've been rebuilding my first ham station and picking up those first shortwave sets I had as a young teen back in the early 70s.

The first real radio for me was a Realistic DX-150B. This was my short-wave listening and ham receiver. I turned it into a real hotrod (for the time that is). I added a Heathkit Q multiplier and a crystal calibrator (remember those). I also tapped the internal loop antenna to increase the broadcast band sensitivity. Those were the days my friends.

I picked up a DX-160 a while back but I'm still looking for a DX-150B. The 160 was an improved DX-150B with long wave added. I also found the Q multiplier and the Calibrator. Life is good.

Any of you guys use the 150 or the 160 in those days? I know it's no R390 but it was a fun radio for a kid. These radios are a lot like listening to your old LPs... not better, just different.

If you find an old friend sitting on a table at a hamfest grab it. You'll be glad to get that old radio running again and remembering the good old days. If you need help getting that old radio to work contact me at wa3tad@comcast.net

One more trip down memory lane. Don't forget that hamfest that runs 24-7 eBay. I found the radio my dad bought me for Christmas 1970. It was a Lloyds multi-band radio. The first station I heard on it was Radio Moscow. When I fired up my eBay find, it worked! I just wondered if it still picks up Radio Moscow...maybe in the twilight zone HI HI.

73's Eric WA3TAD

Richard A. D'Angelo <rdangelo3@aol.com>, 2216 Burkey Drive, Wyomissing, PA 19610

With all the gatherings scheduled to be held around North America over the next few months, there are plenty of opportunities to radio hobbyists to be with other radio folk. Each year the Winter SWL Festival proves how valuable an experience that can be. First time attendees always wonder what they are missing until they actually attend an event. The social side of the hobby is a great thing. Attend a convention or gathering soon!

I received an electronic survey from the Voice of Russia labeled, DRM—fresh international radio opportunities: "Hello! from all of us, at the sociological centre of the "Voice of Russia" radio company. Could you spare us a minute and answer a few questions? All your answers will be statistically processed and used in generalized form only." I sent them a reply indicating I have had very little experience with DRM and that sets are not readily available in the USA. It will be interesting to see what a survey of listeners will turn up.

My reply rate on reception reports has continued to be very good for quite some time now. Although many replies are now coming in the form of electronic responses, old fashion postal replies continue to arrive. Thanks to the helpful folks at the Danish Shortwave Listeners Club, QSLs have arrived for the 1999 final Radio St. Helena's transmission (It's hard to believe that it has been almost five years since the last broadcast). I received my QSL card shortly after I put last month's *NASWA Notes* to bed. It's always fun to get hobby-related mail, as opposed to bills and junk mail, hi! This was my second reply, in just over 1,600 days! My first reply was about two years after the broadcast from Tony Leo, which led to a short feature in the *Shortwave Center*. Robert Kipp deserves a lot of credit as well as Station Manager Ralph Peters for undertaking this task.

73, Rich

Contribute!

Send your loggings and QSL information off to our Distributing Editor, **Bob Montgomery** (Address: P O Box 1458, Levittown, PA 19058). He will forward them to the appropriate editor. Remember, Bob also distributes QSL report information and totals for the **Scoreboard** column. He can also be reached through the Internet at: RMonty23@netzero.net. Please note, this is a **new e-mail address**. The AT&T e-mail address has been discontinued.

Easy Listening

Richard D. Cuff • 42 North 37th Street • Allentown, PA 18104 • rdcuff@mochamail.com

Radio Slovakia International: Fate remains undecided

As of late June, there is no official change in status for **Radio Slovakia International** from that I reported last month, according to a note from Kai Ludwig to Glenn Hauser as reported in *DX Listening Digest* as of June 19th. Any new information received after the monthly *Journal* editorial deadline will be reported in the *NASWA Flashsheet*. You do receive the *Flashsheet* in your e-mail each week, don't you...?

Radio Canada International boosts shortwave to North America

As of mid-June, **Radio Canada International** has added additional afternoon (local time) frequencies to North America. This is a time of day when there isn't much directed to our way. Most of the transmission is French; the only new transmission in English is 1900-2200 on 17765 kHz. The good news is that *Richardson's Roundup*, long a staple of CBC Radio One afternoon programming, joins the RCI schedule weekdays from 1900 to 2100 UTC. Hosted by Bill Richardson, noted for his storytelling and humor, the program includes "...a generous dash of conversation, kismet, music and lateral thinking to take you on a high-spirited journey from the sublime to the ridiculous and back again..." Unfortunately, you won't hear Richardson during the summer—he takes a hiatus from the program and produces a summer series called *Bunny Watson*, a show all about *connections*, that will air on Saturdays on Radio One (and presumably on the CBC Northern Quebec shortwave service) at 1300 UT. Thanks to Glenn Hauser for flagging this information in *DX Listening Digest*.

Additionally, you'll hear the first airing of *The World at Six* at 2100, and the first half hour of *As It Happens* at 2130. Saturdays 1900-2200 it's *Definitely Not the Opera*; Sundays 1900-2000 is *Tapestry*, and—hooray, back on shortwave—2000-2200 it's *Cross Country Checkup*.

Broadcasters quietly enhancing on-demand program access

While it seems that many broadcasters are in survival mode, at best, in their shortwave broadcasting, some broadcasters are increasing access to their programming via the Internet. As we've been saying for years, listening to international broadcasters via the Internet has plenty of disadvantages when compared to shortwave, but if you time-shift your listening via audiocassette, minidisc or other transportable recordable audio, webcasts do provide added convenience. Two examples of broadcasters who have recently expanded their use of webcast capabilities—**China Radio International** and **Radio Japan**—are highlighted below.

China Radio International

While there is plenty of debate over China's strategy and policies regarding the openness of its media, there is no debate over the enhancements **China Radio International** has made to its programming in recent years. Production values have improved, as have programming topics.

China has also gradually increased its use of shortwave relays to reach North America; CIR is available via shortwave 8 times daily in North America, from various relay sites in the Americas, Europe and the Caribbean.

CIR follows a consistent format in its programming, with the first 30 minutes of

each hour devoted to *News and Reports*, in a magazine format similar to Radio Netherlands' *Newsline* or Deutsche Welle's *Newslink*. The second half hour is devoted to a series of feature programs.

The feature programs have been available via on-demand webcast for several years, and individual stories from the *News & Reports* program are also generally available via on-demand webcast.

What's new is that a total of three English language services are now streamed live at the CIR website. Two of these are domestically-oriented stations; one stream, carried domestically on FM, is mostly music programming, the other, carried domestically on MW, is mostly spoken-word, and includes several editions of *News & Reports* and the various feature programs, plus *Real Time Beijing*, a chatty hour-long news magazine not carried on shortwave to North America and targeting the English-speaking expat audience in China. The third service, called *Round The Clock*, appears to be the satellite feed used for the various shortwave releases. About the only annoying information in the online program schedules is that times are shown in Beijing local time, not UTC. The formula for conversion of the times in the schedule to UTC is provided, but it's still a pain to have to do the conversion manually. This live streaming is the only way to hear the *News & Reports* program other than via shortwave.

A recent check of these live webcasts found them to be reliably available and in fine audio quality.

Radio Japan

Even though Japan's economy was one of the two economies that helped to enable the high technology age back in the 1970s and 1980s, Japan has been slower to adopt personal computing and Internet usage than many of the developed economies in Europe and North America. This has been reflected in its slowness to provide webcast audio; until recently, the only English content available via the web from **Radio**

Japan has been the news broadcast that begins each shortwave broadcast. This has recently changed; the weekday news-magazine, *44 Minutes*, is now available on-demand; each day's edition is archived for one week. You can find a link to the program by visiting the main English language site for NHK, Radio Japan's parent, at <http://www.nhk.or.jp/english/rjweekly/index.html>.

I truly wish **Radio Japan** tried harder to produce interesting programming. Japan's culture and economy are truly fascinating phenomena, having visited there years before on business, and the differences between value systems and issues between Japan and its neighbors in the Far East and between Japan and Europe and North America would be very fertile sources of interesting programming; so, too, would be analysis regarding how Japan's economy is changing following its years of stagnation.

Don't hesitate to let me know if you spot other broadcasters who have enhanced how they use their websites as alternate programming sources.

Radio Australia highlights

You can generally never go wrong with anything on **Radio Australia**; one program I haven't highlighted in the past is *Inside Out*, a weekly program that brings out personal views from the Pacific region and stories gathered in Australia, within Pacific communities. The program is hosted by Isabelle Genoux. It airs on Radio Australia Fridays at 0620 UT.

BBC World Service highlights

There aren't too many summertime traditions in shortwave, but one of them is the summertime *Henry Wood Promenade Concert* series, beginning with weekend concerts beginning July 17th, though air times available to North America aren't the best: Sundays at 0501 and 1901; it's possible

that the Europe 2101 time might be somewhat useful. Weekday concerts begin on July 22nd, but are similarly inconvenient for North American listeners—Thursdays 2100 UT. This is also the timing for the European frequencies, again dicey for North American listeners. Good news for those having web access is that all of the concerts are aired on the domestic **BBC Radio 3** service and should be available on-demand for varying amounts of time. Interestingly, the July 22nd concert features a work specifically commissioned by the World Service and composed by Zhou Long, considered a leading Chinese-American composer of today.

Saturdays 0306, 1306 and 2306, July 10th: **Pick of the World** gets into the Proms mood early, as Mark Lowther, presenter of **How to Listen**, brings insights into the music being performed at the Proms. If **World Update** is part of your early weekday morning routine (as it is for me), you might be especially interested in the July 24th edition—it's hosted by Dan Damon, who hosts most days of **World Update** and who shares some of his personal interests as he highlights other programming for this series.

Saturday, July 3rd, and Sunday, July 4th, 1300 UT: Live coverage of the women's final (Saturday) and men's final (Sunday) from the Wimbledon tennis championships as part of special editions of **Sportsworld**. Barry Millns, Alex Capstick and the **Sportsworld** team have plenty of Wimbledon-related coverage leading up to the finals.

Sundays, 0432 and 1132: **Letter** is the successor to **Letter From America** and embodies a similar theme to that legendary program, with individuals from a panel of international broadcasters reflecting on the political, cultural or social developments in their region.

Mondays 0232: **World Business Review** has recently received a new look; Lesley Curwen discusses the biggest economic and business stories of the past week with experts from around the world.

Mondays 1406, repeated Tuesdays 0006 effective July 5th: **Legacies of Rebellion** is a four-part series looking back on the Sandinista revolution in Nicaragua 25 years after the civil war and political strife of the early 1980s. Host Mike Lanchin meets up with many of the key actors and the ordinary people from the days of the revolution, in an effort to see how they have changed and to see what has taken the place of the revolutionary zeal of the times.

Mondays 1506, repeated Tuesdays 0106: **Dialogues**, with Barbara Myers (ex-**Outlook**) interviews international figures in health and medicine. In the conversation, Myers seeks to find out what motivates these individuals and how their professional and personal lives are intertwined. One of the early July editions features an interview with Graeme Cunningham, a psychiatrist and former alcoholic of Ontario, Canada.

Weekdays, 0345, 1345 and 2345, beginning July 5th: Among the July features in the book-reading series **Off The Shelf** is a 5-day reading of **Living History**, Hillary Rodham Clinton's memoirs...with Hillary doing the reading. The two weeks beginning with July 12th feature **Absolute Friends**, the latest novel by John le Carré, read by the author. Alice Hoffman's **The Probable Future** is read for the next two weeks; this story is set in Massachusetts and borrows from the history of witchcraft in Massachusetts.

Wednesdays 1545, repeated Thursdays 0145, effective July 7th: **Heaven and Hell** is a four-part series in the **Heart And Soul** programming block that looks at perceptions of heaven and hell from different religious and philosophical standpoints. Is hell a distinct place or a state of indescribable suffering?

Sunday, July 11th, 1032 and 1532: **In Praise of God** interview Asma Gull Hasan, an American-born feminist who views Islam as an ethnically diverse and tolerant faith, capable of supporting women's rights. She

also articulates a theological, futuristic vision of Islam which allows individuals to have a direct relationship with God.

Mondays 1432, repeated Tuesdays 0032, effective July 12th: **Don't Touch That Dial** is a series of six programs in the **Music Feature** program slot. **Don't Touch That Dial** is hosted by disk jockeys from around the world with the hottest local sounds from their region. DJs from Athens, Lagos, Madrid, Buenos Aires, Port of Spain and Durban will take turns spinning the tunes.

Sunday, July 18th, 0101 and 0501: **Play of the Week** features Anton Chekhov's *The Duel*, a little-known and witty novella, which looks at the mores of life in the Russian Caucasus, and specifically a morally bankrupt former art student.

Monday, July 19th, 0106: **The Ticket** features a special program from Athens on the eve of the Olympics, featuring specially commissioned concert music, archaeological treasures, Greek movies and the hip music clubs of Athens. Mark Coles hosts; this is one of the few programs (other than **Sportsworld**, **Newshour** and **Play of the Week**) that runs for a full hour (except for the news).

Mondays 1532, repeated Tuesdays 0132 and Sundays 2332, effective July 19th: a new six-week series of the science quiz show **Inspiration** goes to air. This is a lighthearted look at inventions and innovations, hosted by Chris Stuart.

Wednesdays 1406, repeated Thursdays 0006, effective July 21st: **Love** is a new

four-week series about the course that love takes through our human existence—from the needs of a newborn baby through the cherished memories of older age. The series is hosted by anthropologist Dr. Helen Fisher.

Wednesdays 1506, repeated Thursdays 0106, effective July 21st: **The Ancient Olympics** is a four-part series chronicling the original Olympic Games as they were held in Greece beginning in 776 BC. Jonathan Edwards, himself an Olympic gold medalist triple-jumper, looks back through the games, their origins and traditions, and the role of gamesmanship in the time of the ancient games.

Fridays, 1406, repeated Saturdays 0006, effective July 23rd: **Olympic Games that Changed the World** is a four-part series in the **Sports International** time block that looks at the major events and developments of the modern Olympics. The first two editions deal with finance, security and drugs—and asks if the Olympics could be started in 2004, presuming they were not restarted back in 1896—could such a huge event be launched these days?

In conclusion

That's all for July; don't forget, I am always looking for programming suggestions from NASWA members, so please get in touch via the mail or e-mail, or even fax: If you have access to a fax machine, you can send a fax my way at +1 206 666 2456.

See you in August—Richard



WWW Shortwave Listening Guide

Looking for programs to listen to? You can find what programs are on for the current hour or list programs of a desired type on a given day at the **www Shortwave Listening Guide** on NASweb. The data is provided by *NASWA Journal* and *Monitoring Times* columnist John Figliozzi, and comes from his book, *The Worldwide Shortwave Listening Guide*. Visit the Guide at <http://www.anarc.org/naswa/swlguide/>.



Shortwave Center

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An Evaluation of Commercially Available Signal Splitters

John Bryant and Bill Bowers—May 2004

In recent years, increasing numbers of radio hobbyists have wished to attach multiple receivers to the same antenna. This need may stem from a group wishing to share a single antenna on a DXpedition to a remote site, or it may be a single hobbyist wishing to operate two or more receivers simultaneously. In any case, many of us have found out that simply using a stub of wire to hook the antenna ports of two or more receivers to the same antenna is an invitation to all sorts of problems. One of the funnier problems can occur if one of several receivers hooked together presents significantly lower impedance to the antenna than do the others. Years ago, when Mitch Sams, Kirk Allen and John Bryant first "shared" a beverage antenna, Kirk and John spent a frustrating half-night wondering why Mitch's old receiver was so much superior to their more modern gear: they eventually realized that Mitch's old receiver was literally sucking up all of their DX! A second common occurrence when hooking multiple receivers together is that spurious radiations/local oscillator signals from one receiver can use the common antenna lead as a pathway to enter the other receivers sharing the antenna; this can cause serious but difficult to recognize interference or partial loss of signal. For all of these reasons and more, if you wish to operate two or more receivers, simultaneously, you will need to use a device called variously, an antenna splitter, a signal splitter or a power splitter: when referring to a receiving antenna device, most people use these three terms interchangeably.

Most signal splitters are based on a

fundamental building block which is a transformer-like device that accepts a single signal stream and splits it into two identical parts that are each (by the laws of physics) diminished in strength by about 3 dB, minimum. Usually, these transformer-like devices consist of a ferrite core and windings of fine wire and this building block may be diagrammed as an upside-down capital letter "Y." Antenna splitters that offer four output ports are usually simply three "building blocks" arranged in a cascade fashion, where the first unit splits the signal into two halves, which are then fed into a second rank of two splitters; those second rank splitters divide the half signals into halves again, creating four identical signals of further diminished strength. Since each transformation/splitting incurs about 3 dB of loss, it is easy to see why most splitters of four output ports or more also include RF amplification.

The first antenna splitters that many of us saw were rather expensive and complex devices built with vacuum tube technology. These devices, usually purchased used from government surplus property outlets, often support 8 or 16 receivers simultaneously and contained sophisticated RF amplifiers, as well. In more recent times, smaller-scale solid-state splitters have become available commercially, intended for both the professional and serious hobbyist markets. The most commonly available splitters are 2-port, unamplified units. However, 4-port units, either with or without internal amplification are also currently available and two of the three splitter manufacturers produce a bewildering array of splitters suited for many professional communications uses.

To our knowledge no technical comparisons of these rather costly devices have been published. Since both of us were interested in either purchasing splitters or building them from scratch, we recently undertook to evaluate what was available on the market. Happily, Bill Bowers, a retired engineer, has an array of professional test equipment and was interested in running the tests. John Bryant served as cheerleader and scribe of the project.

The Splitters

Ideally, we would all be using antennas that have 50 ohms impedance, which would couple to feed lines having 50 ohm impedance that would, in turn, match the 50 ohm input impedance of our receivers. We recently published a study similar to this one which outlined tests of the impedance transformers necessary to match several forms of wire antennas (often from 200 to 2000 ohm impedance according to type and size) to feed lines that are nominally at 50 ohm impedance. All of the splitters evaluated in this study are meant to be used within 50-ohm antenna systems.

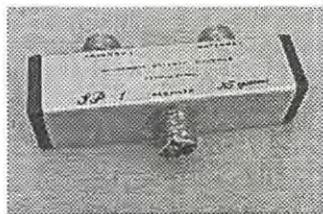
Since the internal circuitry of most large splitter units are simply multiple two-port circuits which are cascaded to make, 4, 8 or 16 port units, we chose to concentrate our effort on three commercially available two-port units. We also included one home-built two port unit which was based on a design originally received from Sam Dellitt in Australia that has been published rather widely in the hobby press. In the initial testing, Bill also included one passive four-port splitter (Mini-Circuits Model zsc-4-3B) and one six-port splitter, Model MCL, which appears to actually be a Mini-Circuits Model zsc-6-110. These latter two were obtained in used condition from an on-line auction.

Model MC-102 was purchased directly from Stridsberg Engineering, 345 Albert Avenue Shreveport, LA 71105 Telephone: (318) 861-0660, FAX: (318) 861-7068 (www.stridsberg.com <http://www.stridsberg.com/>). The current retail price (2004) is \$65 plus s&H. Frequency



Stridsberg MC-102

coverage, as listed by the manufacturer is 100 kHz to 500 MHz. The Stridsberg unit is exceptionally well finished and is the largest of the three commercial splitters, measuring about 5"W x 3"D x 1.5"H, counting the ports. The company welcomes telephone orders, for even a single unit, and does ship overseas.



RF Systems RF-1

The RF Systems Model SP-1 is available from several hobby sources around the world. Our test unit was purchased for \$89.95 plus s&H from our friends at Universal Radio in Reynoldsberg, OH. They accept web orders at <http://www.universal-radio.com/catalog/preamps.html> or sell to hobbyists by phone at 1-800-431-3939 (Orders & Prices Only) and also ship overseas. RF Systems lists frequency coverage as 50 kHz to 30 MHz. As you will note from the photograph, the SP-1 comes with SO-239 ports, so adapters were used to fit the unit to Bill's BNC-equipped test gear. The box itself is about 1" square and 4" long. However, with adapters to BNC fittings, it occupies about 4" x 4" x 1" of space.

The Mini-Circuits Model zsc-2-2 was purchased directly from the Mini-Circuit sales office in Missouri (phone: 718-934-4500, fax: 718-332-4661) for \$52.95 plus shipping and handling. Mini-Circuits lists frequency coverage as 2 kHz. To 60 MHz. Despite being the largest of the three organizations and being primarily committed



Mini-Circuits zsc-2-2

to the governmental and commercial markets, they specifically welcome small orders from hobbyists. They do ship overseas. They also provide excellent technical information about their products, but no ordering capability, at www.minicircuits.com <<http://www.minicircuits.com/>> The Mini-Circuits splitter is the most compact of the three, measuring 2.25"W x 1.5"D x 1.6"H, including the ports.

The Tests

The following characteristics will be measured over a range of frequencies¹ from 150 kHz. to 13 MHz.

Antenna Impedance Match

	MC-102	SP-1	ZSC-2-2	ZSC-4-3B	ZFSC-6	Home brew
F	Z	Z	Z	Z	Z	Z
MHz	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms
0.15	25.02	24.97	55.22	43.83	37.85	57.05
0.25	25.01	24.97	54.73	45.87	42.50	57.28
0.5	25.02	24.98	54.77	46.97	44.89	57.79
1.0	25.04	25.00	54.86	47.43	45.76	58.99
1.5	25.05	25.01	54.97	47.92	46.25	60.23
2.0	25.06	25.01	55.08	48.22	46.61	61.45
2.5	25.06	25.01	55.19	48.43	46.88	62.71
3.0	25.06	25.00	55.28	48.57	47.07	64.03
5.0	25.01	24.95	55.58	48.83	47.44	70.28
10.0	24.72	24.65	55.63	48.44	47.27	91.37
13.0	24.40	24.33	55.23	47.88	46.80	107.0

Antenna Impedance Match: This is the impedance that will terminate the coax lead in cable from the antenna. The RG-58 has a characteristic impedance of approximately 50 Ohms and if the antenna port of the splitter has an impedance other than 50 Ohms, part of the signal will be reflected back to the antenna. The greater the impedance of the antenna port differs from 50 Ohms, the greater will be the signal loss. The amount of loss is rather complex and the total loss also depends on the length and attenuation of the coax. This impedance was measured at the antenna port with all receiver ports terminated in 50 ohms, resistive. *The ideal splitter would present 50 Ohms at the antenna port.*

¹ Bill's test instrumentation covered the frequency ranges, 150 kHz to 13 MHz, so our 11 test points fell within that range. We believe it is safe to extrapolate the results up to 15 or 20 MHz to cover most of the bands of interest to our readers. The equipment: HP-4192A, HP-11048C, AG-04192-61001, HP-3456A, and a Fluke-89322A. Test voltage = 0.10 Volt.

Receiver Impedance Match: *This impedance, in an ideal splitter, should also be 50 Ohms to match the 50 Ohm impedance of the receiver antenna terminal.* The mismatch here is not quite as important as there is usually a very short cable between the splitter and the receiver. Further, The 50 ohm input impedance of the receiver is often fairly well defined over a certain bandwidth. This measurement was made at a receiver port when the other receiver port and the antenna port terminated in 50 Ohms, resistive.

Signal Attenuation: The attenuation of a signal, from a 50 Ohm source, as it passes from the antenna port to one of the splitter receiver ports. The other receiver port(s) are terminated in 50 Ohms, resistive. *The attenuation of a signal, when it is split 2 ways, in an ideal splitter would be 3db, when split 4 ways is 6 db, etc.*

Signal Isolation: The local oscillator of a receiver radiates back out the antenna connection and thus into the splitter. To prevent one receiver's oscillator from

Receiver Impedance Match

	MC-102	SP-1	ZSC-2-2	ZSC-4-3B	ZFSC-6	Home brew
F	Z	Z	Z	Z	Z	Z
MHz	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms
0.15	71.45	70.33	48.52	39.15	25.35	44.74
0.25	80.42	81.20	48.52	42.44	32.71	44.84
0.5	85.53	90.31	48.54	44.24	38.66	48.24
1.0	89.03	94.43	48.60	45.05	40.82	45.73
1.5	91.12	95.69	48.65	45.57	41.73	46.37
2.0	92.35	96.18	48.17	45.97	42.42	46.98
2.5	93.11	96.43	48.75	46.27	42.95	47.60
3.0	93.57	96.58	48.80	46.46	43.36	48.24
5.0	94.20	96.69	48.92	46.78	44.15	51.17
10.0	93.34	95.41	48.78	46.34	44.10	60.35
13.0	92.46	93.94	48.42	45.71	43.59	66.36

Signal Attenuation

	MC-102	SP-1	ZSC-2-2	ZSC-4-3B	ZFSC-6	Home brew
F	α	α	α	α	α	α
MHz	-dB	-dB	-dB	-dB	-dB	-dB
0.15	3.52	3.52	3.10	6.39	8.76	3.10
0.25	3.51	3.53	3.10	6.31	8.41	3.11
0.5	3.52	3.53	3.10	6.29	8.26	3.14
1.0	3.52	3.53	3.11	6.27	8.22	3.23
1.5	3.52	3.53	3.12	6.25	8.18	3.31
2.0	3.53	3.53	3.13	6.22	8.15	3.39
2.5	3.53	3.54	3.14	6.21	8.13	3.46
3.0	3.53	3.54	3.15	6.20	8.11	3.53
5.0	3.54	3.55	3.18	6.19	8.08	3.86
10.0	3.55	3.57	3.24	6.18	8.07	4.88
13.0	3.56	3.58	3.27	6.18	8.07	5.58

interfering with the signal going into the other receiver connected to the splitter, it is desirable to have as much signal isolation as possible. *The larger the signal isolation the better.* For this test, the attenuation, from a 50 Ohm source connected to a receiver port, was measured at another receiver port. All receiver ports and the antenna port were terminated in 50 Ohms, resistive.

it is tuned to the incoming signal. Some receivers show an impedance as low as 10 ohms at frequencies other than the one to which the receiver is tuned. This 10 Ohm load at one receiver port of the splitter can upset the impedance seen at the other port. *Here again the ideal splitter would continue to present 50 Ohms impedance even when the other port is loaded with 10 Ohms.* This measurement was made at one receiver

Signal Isolation

	MC-102	SP-1	ZSC-2-2	ZSC-4-3B	ZFSC-6	Home brew
F	α	α	α	α	α	α
MHz	-dB	-dB	-dB	-dB	-dB	-dB
0.15	11.58	11.29	39.85	53.90	20.26	32.43
0.25	15.06	14.55	39.89	57.44	22.09	33.75
0.5	18.93	19.40	39.89	60.71	26.25	32.75
1.0	22.01	24.46	39.56	60.54	29.73	29.55
1.5	24.10	27.38	39.15	58.90	30.96	27.25
2.0	25.64	29.37	38.62	57.38	31.75	25.50
2.5	26.85	30.85	38.02	56.03	32.33	24.09
3.0	27.85	32.01	37.42	54.83	32.85	22.88
5.0	30.25	35.24	35.13	51.28	34.20	19.47
10.0	32.09	37.55	31.05	46.00	35.19	15.10
13.0	32.05	36.43	29.40	43.96	35.32	13.72

Impedance Isolation: The antenna input impedance of a receiver with a "coax connection" is nominally 50 ohms when

port as the impedance at one of the other receiver ports was reduced from 50 to 10 Ohms, resistive.

Impedance Isolation

	MC-102	SP-1	ZSC-2-2	ZSC-4-3B	ZFSC-6	Home brew
F	Z	Z	Z	Z	Z	Z
MHz	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms
0.15	73.88	72.89	48.51	39.10	25.17	44.96
0.25	81.58	83.18	48.51	42.48	32.66	47.86
0.5	85.76	91.98	48.53	44.25	38.66	45.28
1.0	89.12	94.83	48.58	45.05	40.81	45.93
1.5	91.19	95.83	48.64	45.58	41.71	46.58
2.0	92.39	96.25	48.70	45.98	42.41	47.22
2.5	93.12	96.47	48.75	46.28	42.94	47.85
3.0	93.56	96.60	48.80	46.46	43.34	45.51
5.0	94.17	96.69	48.92	46.78	44.14	51.44
10.0	93.28	95.35	48.82	46.33	44.09	59.68
13.0	91.99	93.89	48.49	45.70	43.57	64.56

Total Loss: This is the total loss of signal as it passes from the antenna through 100 feet of RG-58A/U coax and a signal splitter. A measured signal, (-20dBm.) is fed into the coax at the antenna end and the strength of the signal at the receiver end was measured with a Fluke 8922A RF voltmeter. *This is a comparison of the quality of the splitters under typical conditions.*

Total Loss

	MC-102	SP-1	ZSC-2-2	Home brew
F MHz	Loss -dBm	Loss -dBm	Loss -dBm	Loss -dBm
0.15	3.55	3.53	3.35	3.29
0.25	3.58	3.59	3.32	3.37
0.5	3.84	3.74	3.40	3.50
1.0	4.09	4.10	3.50	3.68
1.5	4.27	4.27	3.59	3.78
2.0	4.23	4.23	3.70	3.91
2.5	4.13	4.14	3.79	4.13
3.0	4.14	4.17	3.88	4.34
5.0	4.56	4.60	4.14	4.68
10.0	5.06	5.08	4.62	6.11
13.0	5.26	5.29	4.88	6.92

Discussion²

One area of some concern was noted in the Signal Isolation tests: the relatively poor performance of the Stridsberg and RF Systems units at the lower end of medium and long wave frequencies. While this would be of little concern to shortwave DXers and most radio amateurs, people with interests in the regions at and below 1 MHz. should take note. We were both also surprised at the impedance mismatches exhibited by both the Stridsberg MC-102 and RF Systems SP-1 in the tests of Antenna Impedance Match, Receiver Impedance Match and Impedance Isolation. In some cases, these mismatches reached 100%. However, *the measured signal losses of all three units are very nearly equal*, reminding us again how forgiving receiving-only devices are of mismatches.

**[T]here is really
no significant difference
between the three
commercial products
and a selection
could be made based
on price and availability.**

The last test, Total Loss, is really the bottom line. It indicates that, for most uses, there is really no significant difference between the three commercial products and that a selection could be made based on price and availability. However, for the "extreme DXer" who may be unwilling to give up even half a decibel of signal, or for some technical applications, the Mini-Circuits ZSC-2-2 was clearly the best in each measured characteristic. The home-brew splitter was the second best in most tests below 5 MHz. Its performance encourages us to undertake a second project in the very near future to further develop the homebrew design.

²The measured values of Z were actually complex, not purely resistive. The impedance phase angles were, however, very small in most cases, and we feel that including those angles would have been more confusing than helpful. For instance, the largest impedance phase angle for the Mini-Circuit ZSC-2-2 was less than 2 degrees over the entire frequency range. For all practical purposes, the tabulated values of Z can be considered resistive.

A Visit to All India Radio

The Bangalore Shortwave Transmitter Site

By Jose Jacob, VU2JOS

(Worldwide DX Club, Top News #670)

Bangalore is the capital of Karnataka state in South India. It is known as the Garden City of India.

Recently when I returned from my native place in Kerala to my work place in Hyderabad, I took detour via Bangalore so that I could visit the AIR Superpower Shortwave station there by prior appointment.

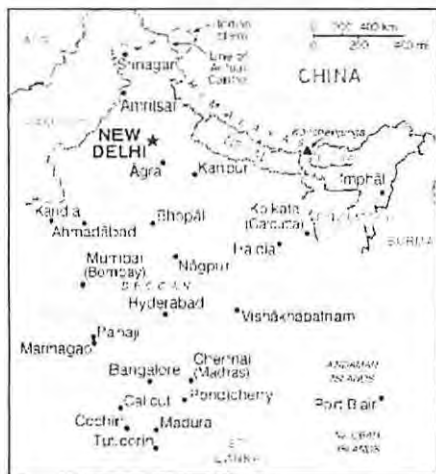
I reported to the City office at Yelahanka New Town which itself is 17 kilometers away from the city. Their staff quarters and guestrooms are also located there. I accompanied the Superintending Engineer and Station Engineer to the actual transmitter site, which is near Aralu Mallige Village, Doddaballapur about 45 kilometers away in a remote area. On the way we can see several vineyards and the transmitting towers are visible from a long distance.

The Super Power Transmitter (SPT) site is in a 632 acre (255 hectare) site and it houses 6 numbers of 500 kw transmitters made by British Brown Boveri in Switzerland. It is the most powerful SW transmitter site in South Asia.

All the transmitters are in a large hall with 4 transmitters on one side and 2 on the opposite side. Each transmitter is named after a major Indian river as follows:

- BL1 Ganga
- BL2 Cavery
- BL3 Yamuna
- BL4 Krishna
- BL5 Narmada
- BL6 Godavari

In the first phase, 2 transmitters of BBC SK 55 C3 2 type were installed. Test transmissions were conducted from November 1989 to February 1990 and it was inaugurated on 9th March 1990. In the second phase, 4 more transmitters of BBC SK 55 C3 2-P were inaugurated on 28 Sept 1994 which uses Pulse Step Modulation (PSM) technology. They operate on latest power saving Dynamic Carrier Control (DCC) technique. It has facility to operate even in SSB mode. These transmitters can operate between 5.9 to 26.1 MHz but now a days they use frequencies between 9 to 17 MHz. The transmitters have automatic tuning facility and can change frequencies in about 30 seconds. Currently BL2 & BL4 are off air due to shortage of the final valve problems. Each valve costs about 1 crore Rupees.



A siren is sounded just before any transmitter is switched on. There are no transmissions from here between 0530 to 0900 UTC (11.00 am to 2.30 pm LT) and they do the maintenance work etc. at that time. Occasionally 2 transmitters use the same frequency with the same programs of course.

All India Radio is having a 66 kv, 20 MVA electrical substation exclusively for this

station. For the cooling purposes, there are 9 numbers of 30 ton chilled water type air conditioning plants.

There are 36 multi band curtain aerials hung between 21 towers of heights varying between 60 to 115 Meters. They have slewing facilities with remote operation of Antenna Change Over and Slew switches. The antennas are in 3 zones with 8+8+5 towers. It can beam in 8 directions and is broadcasting to all areas of the world except the Americas. Any aerial can be selected on any transmitter. The antenna feeder line is 19 kilometers long. The strength of the staff is about 100. The transmitter building is in the shape of a hammer and is well shielded.

The transmitters were initially used exclusively for External Services of All India Radio. However now a days it also used for the national programs viz. Vividh Bharath on 10330 kHz and the National Channel on 9425 kHz. Currently External Services in the following languages are broadcast from here viz. Arabic, Chinese, English, French, Gujarathi, Hindi, Kannada, Russian, Tamil and Telegu.


The programs are received by satellite from New Delhi studios (except for the Kannada

programs, which is received from the AIR Bangalore studios via the STL UHF link on 1440 MHz).

There are 2 standby studios here and I could see tapes in various languages of AIR External Services to be used during any failure of program links but it has been hardly used At the entrance there is a large world map showing the beam headings. The station has won several awards for its excellence which are displayed. The compound wall is 9 kilometers long . We have to pass through two security gates to enter the building. Photography / Video recording is strictly forbidden.

I was told that Reception Reports received here are replied directly in the same mode (by email or post). However most publications list their old address and letters reach here only after a lot of wandering.

The exact address of the concerned office is: Mr. R. Narasimha Swamy, Superintending Engineer Super Power Transmitters, All India Radio Yelahanka New Town, Bangalore 560064, Karnataka, India Email: <sptairynk@vsnl.com>

Most of the QSLs for this station are issued from the AIR HQ in Delhi. 

FOR SALE: Klingenfuss 2002 SW Frequency Guide, \$22.00. WRTH 1997, \$9.00; 2000, \$14.00; 2001, \$15.00. Perry Ferrell's Guides: RTTY Frequencies, 2nd Edition, \$5.00; Confidential Frequency Lists, 6th Edition, \$8.00; 7th Edition, \$10.00. Complete NASWA Journals for 2002, \$13.00; 2003, \$15.00. All items include shipping (overseas shipping extra). Cashiers check or money order only, please. Al Drehmann, 389 Laurel Heights Lane, Tryon, NC 28782-6643. E-mail aldreh@alltel.net. Phone 828-894-3398. No collect calls, please.

Adrian Peterson's Diary

Dr. Adrian M. Peterson • Box 29235 • Indianapolis, IN 46229

The Oldest Radio Building in the World

Standing just outside the Carisiti School at Rocky Point on New York's Long Island is a neat and very historic small white building. This well maintained building, now registered as an historic site, is a little more than 100 years old, and its history can be traced right back to the very earliest days of primitive wireless transmission. Here now is the interesting story of this remarkable building with a long radio history.

It was back in the year 1902 that this small building was constructed by a now unknown carpenter. The building was erected on a farm near Babylon on Long Island; the owner of the building was Marconi himself, and the purpose of the project was to house a new facility for wireless transmission and reception.

The dimension of the building was just 12 ft. by 14 ft., and inside was a high shelf for the the wireless equipment. Tall wooden masts were erected for the antenna system, and at one stage these were felled in a storm.

The wireless station at Babylon was constructed for the purpose of communication with passing ships, and Marconi himself operated the wireless equipment here on several occasions. This wireless location was also known as Sagaponack. The original callsign for this station is now lost in the mists of antiquity, though a later call, after the regularization of international callsigns, was WSK.

When larger and more permanent wireless stations were erected on Long Island and at other locations along the Atlantic Coast, the Marconi station at Babylon was closed and abandoned. Likewise, the little white building was also abandoned.

Many years later, in 1931 to be exact, another radio inventor, Edwin Armstrong, came across Marconi's little wireless shack

in Babylon which was now in use as a paint shop. He bought the building and donated it to RCA, the Radio Corporation of America, and it was moved to the massive radio station, Radio Central, located at nearby Rocky Point.

For the next many years, this important wireless building was used as a store room, and around the time of the war years it was in use for what were considered at the time to be isecreti radio experiments. RCA engineers were looking at various electronic possibilities, which included also what is now known as radar.

In 1971, several years after the Rocky Point communication station was closed, the little white building was donated by RCA and moved to a new location in front of the Carisiti Elementary School, where it can be still found to this day.

In 1987, an amateur radio club installed radio equipment in the building and went on the air under the callsign N2HNZ. This was the first time that the building was used for electronic communication since the Marconi days. Each year this station is activated around the date of Marconi's birthday, April 25, as special event amateur station under the callsign W2RC.

Many internet websites present various aspects of information on the long and interesting story associated with this historic radio building. The claim is made that the building was used at its original location near Babylon for Marconi's first communication with ships. Now, in reality, his first wireless contacts with ships go back a few years earlier to the year 1898. Perhaps, then, these websites refer to the first commercial communication with shipping.

It is also claimed that this small building is the oldest building in North America that was specifically constructed for use as a

wireless station and that is still in use for that purpose today. We would suggest that this claim is correct, and that it could even be the oldest such building in the world.

It is true, several wireless buildings were erected at other sites earlier than this one on Long Island, and they were located at Poldhu in Cornwall, Cape Breton Island in

Canada, Cape Cod in Massachusetts, and at five locations in Hawaii. However, as far as is known, none of these original buildings is standing today.

So maybe the claim for the little white Marconi building on Long Island should be elevated from "The Oldest in the United States" to "The Oldest in the World."

Radio Anniversary in Iran

The Middle Eastern country of Iran is located on the southwestern edge of Asia. It is a little over one thousand miles long and a little less than a thousand miles wide, with a total area of two thirds of a million square miles.

The total population is around fifty million, and the capital city is Tehran, with around five million inhabitants. Iran is a very picturesque country, with high snow-covered mountain-ranges, wide barren deserts and many large salt water lakes.

Even though Tehran has been described as one of the most modern cities in the Middle East, yet one of the most fascinating aspects of Iran is its long and interesting history. Iran is one of the oldest countries in the world, and its history goes way back into the Persian era more than three thousand years ago.

The earliest settlers in Iran came down from the north and were known as the Elamites. Other tribal peoples moved into the area subsequently and established their own regional societies.

The height of political glory in ancient Persia was achieved under the Archaemenid rulers, and at one stage the Persian Empire was made up of 127 provinces stretching from India to Ethiopia. A glimpse of their past glory may be gained in viewing the monumental ruins of ancient cities, temples and palaces in such places as Persepolis, Pasargadae and Apardana.

Wireless communication came to Iran in the early 1920s when station VTF was established by the Indo-European Telegraph Department at Busher on the Gulf coast. This station

was established for the purpose of regional communication, direct communication with England, and intermediate communication between England and India.

The first radio broadcasting station in Iran was a temporary mediumwave facility that was established in Tehran in 1938. Thirty years later, a postage stamp was issued to commemorate the first broadcast from this station, which occurred on February 22.

Permanent radio came to Iran in 1940 when a combined mediumwave and shortwave facility was constructed on the edge of Tehran. This new radio station contained a 30 kw. mediumwave transmitter on 895 kHz under the callsign EQA, and two shortwave transmitters at 20 kw. with the callsigns EPB and EQB. The auspicious date for the inauguration of this combination radio station was April 24, 1940, hence their 64th anniversary just yesterday.

Plans were announced in 1963 for the construction of a massive new shortwave station at Kamalabad, adjoining the older base that was now more than 20 years old. At maximum capacity, this station is said to have contained a total of 36 shortwave transmitters rated at 100, 250 and 500 kw., and this would have to be one of the very largest radio stations anywhere on planet earth.

In addition, regional shortwave stations have been established in more than a dozen cities throughout Iran, and even to this day four of these locations are listed as still active. These four regional shortwave stations are located at Ahwaz, Mahshad, Sirjahn and Zahedan, with a total of 18 transmitters rated at 250 and 500 kw.

In addition to their massive network of superpower shortwave stations, Iran also maintains a huge network of gigantic mediumwave stations. These mediumwave stations, more than 100 of them, are located throughout the country, and they range in rated output right up to a massive superpower of 2,000 kw.

Over the years, many international radio listeners have received prized QSLs from various radio stations throughout Iran,

mediumwave as well as shortwave. Our own collection contains QSLs from six different mediumwave stations in Iran, as well as six QSL cards from their shortwave services.

In earlier years, the radio stations in Iran issued registered letters to confirm reception reports, though in more recent times, attractive oversized cards were printed, showing monuments and tourist attractions throughout their country.

Hong Kong Radio on the Air Shortwave

A major political change directly affecting the lives of more than five million people took place in Asia in the middle of the year 1997. The small and dependent enclave of Hong Kong reverted to Chinese rule after more than one and a half centuries as a British territory.

Actually, Great Britain gained control of Hong Kong in three progressive stages, and in the year 1898 a 99 year lease was signed between England and China. This lease expired at the end of June 1997 and England handed back to China all of the Hong Kong territories.

The territory of Hong Kong covers more than 1,000 square miles, though only 400 square miles is land area. It is a rugged territory, made up of more than 235 islands plus the mainland peninsulas. At the time of annexation 100 years ago, the whole area was no more than a series of small fishing villages. The name, Hong Kong, in the Cantonese language, means, "Fragrant Harbour."

The usage of wireless communication began in Hong Kong around the end of World War I with the establishment of three spark gap transmitters. These stations were BXY on Stonecutters Island and BZV at Port Nolluth, which were both operated by the British navy; and VPS at the familiar location, Cape D'Aguilar, which was operated by the Post Office for international communications.

A series of test broadcasts was made in 1926 with the presentation of live concert

programs, and the first broadcasting service commenced on June 30, 1928, with regular scheduling on 475 kHz using a power output of 150 watts. This new station was allocated the callsign 5HK, with the number 5 indicating the territory and the letters HK representing rather obviously Hong Kong.

This station was replaced soon afterwards by two other stations, which identified as GOW on the mediumwave channel 1,000 kHz, and VPS3 on the channel 800 kHz. The callsigns of these units were subsequently changed to the more familiar ZBW and ZEK, with programming on one channel in English and the other in Chinese.

A series of experimental broadcasts on shortwave commenced in 1930 over a low powered station in the 49 metre band under the callsign ARI. Regular broadcasting on shortwave began in 1935 with the installation of a 250 watt transmitter under the exotic callsign ZBW. This low powered unit was replaced in 1938 by the very famous and still active 2.5 kw Marconi SWB transmitter.

Under the Japanese administration of Hong Kong for a period of three and a half years extending from 1941 to 1945, the radio station was on the air under the occupation callsigns, JQHA and JZHA, with apparently one call for mediumwave and the other for shortwave. International radio monitors in Australia, the United States, and New Zealand reported hearing the exotic little shortwave transmitter periodically, usually on the air in the international shortwave bands.

Following the war years, the two program channels were re-established, one in Chinese and the other in English. Commercial broadcasting was introduced into Hong Kong in 1960, and the entire technical facilities were upgraded eight years later, in 1968.

It was at this stage, after 38 years of service, that the small and famous shortwave transmitter from 1938, ZBW was retired.

However, many years later, in 1980, it was thought that the old 2.5 kw. transmitter was re-activated for weather broadcasts during the South China Sea boat-race from Hong Kong to the Philippines. However, QSL cards issued by Hong Kong Telecom indicate that one of their many communication transmitters was in use for the boat race weather broadcasts.

This is the current electronic scene in Hong Kong. There are seven mediumwave transmitters, 60 FM transmitters, a dozen radio networks, and five networks of television. In addition, there is the shortwave communication facility located at Cape D'Aguilar which houses all of the shortwave transmitters that are used for communication with aircraft and shipping, as well as for regular Volmet weather bulletins and the occasional boat race broadcasts.

The AWR collection of QSL cards in Indianapolis contains several exotic QSLs from radio stations located in Hong Kong. These historic QSL cards include the BBC East Asian Relay Station, BFBS Hong Kong, Radio TV Hong Kong, several communication channels, as well as two picturesque cards for the unit that was used for the boat race broadcasts.

10th Anniversary— Radio Miami International WRMI

Radio station WRMI in Florida, Radio Miami International, is a very progressive commercial shortwave station and it is currently celebrating its 10th anniversary. The managing director of station WRMI is Jeff White, who is the past president of NASB, the National Association of Shortwave Broadcasters, and he is the new Chairman of DRM, Digital Radio Mondiale in the United States.

Even though WRMI in Miami is now just 10 years old, yet its earliest origins go back to another location a further eleven years earlier. It was in Chicago in 1983 that Radio Earth was founded for the purpose of producing shortwave programming and making it available for broadcast on available shortwave stations with coverage in North America.

During this initial eleven year period, the programming of Radio Earth and Radio Discovery was heard over several shortwave stations in the United States, such as WRNO in New Orleans, WHRI on the edge of Indianapolis, and KCBI near Dallas in Texas. As the

new shortwave service grew, this programming was heard also over Radio Clarin in the Dominican Republic and Radio Milano International in Milan Italy.

It was at this stage that Adventist World Radio, AWR-Asia in Poona India, came into the picture. Occasional programming from Radio Earth was included into the old AWR DX program, "Radio Monitors International," and this DX program "RMI," was included regularly into the shortwave scheduling of Radio Earth.

It became time for them to establish their own shortwave station, and so plans were made for the launching of station WRMI in Miami Florida. The first open-carrier test broadcasts from the new WRMI were made from a temporary transmitter, a modified old military unit, on November 11, 1993. Test broadcasts from the 50 kw. Wilkinson transmitter that was imported from the Dominican Republic commenced soon afterwards. When all of the necessary technical adjustments had been completed, including

the suppression of an unwanted harmonic, the station implemented a regular broadcast schedule on June 14, 1994, just 10 years ago last Monday.

Station WRMI is currently heard with a regular daily schedule on three different shortwave channels as follows: 9955 kHz, 0900-1200 UTC daily; 15725, 1200-2300 UTC daily, with variations on weekend; and 7385, 2300-0900 UTC daily, with variations on weekend.

Over a period of time, station WRMI has been noted with a program relay from many different organizations, including, for example, Radio 16 Desanm in Haiti, Radio Prague International from the Czech Republic, and Vatican Radio in Europe. In addition, WRMI also carries a downlink relay from the satellite service of the World Radio Network in England, and many stations throughout the world can be heard in this relay, including Radio Japan in Tokyo, China Radio International in Beijing, and Radio Australia in Melbourne.

The lengthy series of digital-analog broadcasts on behalf of the National Association of Shortwave Broadcasters, NASB, is nearing the end of its tenure, though they can still be heard for a few weeks longer on Saturday nights in North America at 0230 UTC on 7385 kHz. The AWR DX program, "Wavescan," with

all of its almost 500 editions has also been heard regularly each week from WRMI over the past 10 years.

For a period of a little over two years, much of the programming from station WRMI was also heard on a delayed relay from station HRJA in Tegucigulpa, Honduras. This 1 kw. transmitter was operated by Radio Estereo Amistad, and it was intended to grow into a major relay service for coverage into North America. However, the transmitter was removed from service for modification on October 31, 1995, but this station never did return to the shortwave bands.

Radio Miami International is noted as a very reliable verifier, and many listeners in the Americas, Europe, and the South Pacific own prized QSL-cards from this station. The AWR collection contains more than 50 QSL cards and letters from the shortwave services of Radio Earth, Radio Discovery, station WRMI, Radio Copan, and the NASB.

We here at Adventist World Radio salute Radio Miami International—WRMI on the occasion of their 10th anniversary; and we also express gratitude for the fact that WRMI and its additional shortwave services have carried more than 600 editions of the AWR DX programs, "Radio Monitors International" and "Wavescan."

Kiribati Returns to the Air Shortwave

Several email radio bulletins recently have highlighted the fact that there is a distinct possibility that R. Kiribati in the exotic Pacific will again be heard on the shortwave bands, apparently with the intent to return to their former channel 9825 kHz. This information sparked our interest in looking at the shortwave scene in Kiribati, and this what we found.

The small independent nation of Kiribati is located in the South Pacific half way between Hawaii and Australia. This small country of less than 300 square miles, a little more than 800 square km, is made

up of islands that were known under other names in earlier times. Kiribati today with its 33 main islands is made up of the following islands and island groups:

- Gilbert Islands—16 islands
- Phoenix Islands—8 including Canton Island
- Line Islands—8 including Christmas Island and Fanning Island
- Ocean Island—1

The total population of Kiribati is a little more than 100,000 and the capital city is Tarawa with 65,000 people. The city of Tarawa is

itself a coral atoll made up of several small coral islands. The commercial centre is on Betio; the government offices are on Bairiki; and the international airport is on Bonriki, all as part of the capital city Tarawa.

The original settlers in Kiribati were the Austronesians, and in the 1400s the Samoans invaded the islands, followed by the Spanish, then the British, and then the Japanese. These islands became independent on July 12, 1979. The Australian dollar is their national currency; and English is the official language, though Gilbertese or Kiribati is spoken locally.

The local government moved the International Date Line way out east a few years ago so that they could become the first country in the world to welcome in the new millennium on January 1, 2000. Along with Tuvalu and other low lying Pacific islands, the very existence of Kiribati is threatened by the rise of ocean levels due to global warming.

Back in the wireless era, four stations were established in what is now Kiribati for inter-island and maritime communication. These stations were VQK on Ocean Island, VQM and VSZ on Tarawa Atoll, and VQN on Fanning Island.

Then, during the Pacific War, three mediumwave stations were established in the territories of Kiribati for the benefit of American forces. These stations were WXLH on Makin Atoll, WXLF Tarawa, and WVUU Christmas Island. British Forces also operated a station on Christmas Island nearly 20 years later.

The first attempt at local broadcasting in Kiribati occurred in 1952 when a small scale sporadic radio service went on the

air, apparently as an amateur operation. Two years later, a regular though still quite small radio service was established in the home of the engineer, and it was noted in Australia and New Zealand on the shortwave channel 6050 kHz.

A small radio station was built one year later, in 1955, and this facility housed two transmitters, 500 watts on shortwave and 30 watts on mediumwave 844 kHz. A large new mediumwave station was built on Bairiki Island in 1970 and a 10 kw mediumwave transmitter was installed, and this unit has been on the air ever since.

On shortwave, many different transmitters, broadcast and communication, at several different locations have carried a program relay during the past half century. These units have been on the air under three different call signs, VSZ, VTW and T3K1.

The most exotic of all of these radio services in Kiribati was the shortwave relay to the mediumwave station on Christmas Island. This service was first noted in 1980 and it was in use for a couple of years until a transmitter malfunction rendered the Christmas Island station inoperable. This shortwave service served a double purpose, as a program relay and for direct reception in distant islands. The power output for this relay service was always quite low, and it varied according to which transmitter was in use.

The latest news tells us that Kiribati may be reviving their shortwave service on 9825 kHz for direct reception in the outer islands. Perhaps we will have the opportunity of hearing once again their exotic sign on signal, the turbulent waves of the restless ocean crashing onto the seashore of a distant Pacific Island.



Police Radio in the Early Days

Just a while back, we received a communication from Bob Pittman in the New South Wales Police Department, asking for information in two areas. This double request came to us via the Pacific Radio Heritage in New Zealand. One request was about the origin of the callsigns in use by Australian radio stations, and the other was about the history of police radio in Australia.

In answer to Officer Pittman's two requests, we should mention that the origin of Australian radio callsigns will be the main topic in *Wavescan* edition 454 on Sunday, September 19, and in today's edition we take up the story of Police Radio in Australia, and elsewhere as well.

The earliest record of Police Radio in Australia that we can find goes back to the late 1920s. At that time, a radio transmitter was installed at the AWA radio base at Pennant Hills on the edge of Sydney for use by the Police Department in Sydney.

This police transmitter was on the air longwave on 410 kHz in Morse Code and voice with 3 kw under the callsign VKD. The transmitter was remotely operated from police headquarters in Philip Street, Sydney, and this service was also monitored at police headquarters in Melbourne, Victoria. In subsequent years, when the transmitter location was moved out of the AWA facility at Pennant Hills, the callsign was changed to VKG.

The transmission tower for the radio station operated by the police in Melbourne was located on top of their tall downtown building. This station was inaugurated in 1922 with the callsign VKC. Additional similar units at country locations also took the same callsign; and, for example, VKC3 with 200 watts on 4490 kHz was located at Seymour, 64 miles from Melbourne.

Brisbane Police were on the air in the mid-1940s with a similar communication service on 2175 kHz under the callsign VKR.

Interestingly, all three of these police radio stations in Australia verified reports from listeners in Australia and New Zealand with very informative QSL letters. Across the Tasman, veteran DXer Jack Fox also received letters of verification from two of the police radio stations in New Zealand, ZLKQ in Auckland and ZLKP.

Over in the United States around the same era, there was a multitude of police radio stations on the air, and these were often noted at great distance with entertainment programming as well as police despatch notices. Again, Jack Fox in New Zealand has QSLed several of these in earlier days, including station KGPA in Seattle with 500 watts on 2414 kHz and WCK in Detroit with 1 kw on the same channel, 2414 kHz.

There is a very interesting example of police radio over in the country of Turkey. This station began with 1 kw on shortwave many years ago, though the actual date of commencement is not known to the international radio world. A little over ten years ago, two transmitters at 10 kw were installed and the broadcast channel was changed to 7370 kHz.

This station has often been noted in Europe and North America with Turkish music and brief quick police announcements in the Turkish language. In earlier times, Turkish Police Radio issued a plain but highly prized QSL card with English text. However, these days they are no longer issuing any QSLs at all. The schedule for this station is shown in the *World Radio TV Handbook* as 0550-1700 UTC on the same channel, 7370 kHz.

New Senior DX Centurion

Rudolph Sonntag of Gilching, Germany became our latest Senior DX Centurion with 160 countries verified. You can view most of his QSLs on his home page, <http://Rudolp.Sonntag.bei.t-online.de>. His catches span 4 decades from the 70s to the present. Let's congratulate him on a job well done.

Latest Awards

Scott R. Barbour, Jr. of Intervale, NH
DX Centurion

Charles A. Dobbins of Alpine, TX
Maple Leaf DXer
This award is not available to a new listener since Canada now has less than 8 shortwave stations. His QSLs are from the 50s, 60s & 70s.

Senior Ecclesiastic DXer
These QSLs are from 1959 to the 1990s including 4VEH from Haiti and TWR from Andorra both long inactive radio countries.

Senior Time Station
His QSLs are from 1961, 1978-1981 and

include MSF from Great Britain, OLB5 from Czechoslovakia, JJY from Japan, BPM from China, LOL from Argentina and ZUO from South Africa.

Michael Fanderys of Westlake, OH
DX Centurion
Master European DXer
International DX Listener
100 Country Endorsement

John E. Friberg, Jr. of Hopkinton, NH
DX Centurion

Leslie Nice of Rowlett, TX
Senior Ecclesiastic DXer
All Voice of America DXer

Rudolf Sonntag of Gilching, Germany
Senior DX Centurion
160 Country Endorsement
African Continental DXer

Let's keep up the good work. These coveted awards will brighten up the walls of your radio shack. Please apply at your earliest convenience. If you have any questions about the awards program please feel free to contact me. Until next time. 73.

FOR SALE: A blast from the past. The Realistic DX-160 5-band Communications Receiver. Original manual, external speaker and antenna are included. Best offer including shipping or pick-up around the Ann Arbor, MI area. Please call 734-222-8716.

Listener's Notebook

Al Quaglieri • P.O. Box 888 • Albany, NY 12201-0888 • FAX: (518) 453-0864 • al@alcue.com

ARMENIA *Voice of Armenia* retimed Armenian transmission on 11640 ERV 500 kW: 1500-1615, instead 1500-1645 // 4810 (Observer-BUL)

AUSTRALIA/ECUADOR New schedule for *HCJB Australia* from May 30 till August 28:

0100-0230 English 15560
0700-1000 English 11750
1000-1130 English 15425
1130-1200 Indones. NF 15425
1200-1430 English NF 15435
2230-0100 English NF 15525

(Observer-BUL)

BELARUS The low power relays of *Belaruskaje Radyjo* 1 from Hrodna (6040/7110) and Mahilio (6190/7145) are no longer carrying regional programming. They are carrying the basic BR1 feed which includes a relay of *BR Radyjo Stalica* at W 0340-0400 & 1500-1540 (Sat 1600). (Trutenau, Lithuania, May 26, Cumbredx/DX Listening Digest/Hauser-OK)

BENIN Silent on 7210?? Friends in west Africa report that Cotonou has been unheard on usually reliable 7210 for the past week. Parakou is still being heard on 5025 (Chris Greenway, Kenya, May 27/DX Listening Digest/Hauser-OK)

BOLIVIA 6025, *Radio Illimani* is back on the air! 0010-0020 May 31, taquirari music, then W ID/jingle "Red Illimani—70 anos" (Prokhorov-RUS/Cumbre DX/DX Listening Digest/Hauser-OK)

BURMA [non] *Democratic Voice of Burma* transmission via the Radio Netherlands Madagascar relay station at 1430-1530 UT now on 17625 kHz (ex-17495). (Media Network blog/DX Listening Digest/Hauser-OK)

CHINA More and more additional frequencies of *China Radio International*:

0400-1700 English 17490 17650
1300-1600 Russian 7250
1500-1700 English 13640
1530-1600 English 11520
1600-1700 English 7250
1600-1730 English 13730 cancelled
1600-1730 English 13730
1700-1800 French 15150, ex in English
1700-1900 English 13830
1700-2200 English 12080 in AM, ex xx00-xx15 and xx30-xx45 in DRM, other in AM
1730-1900 English 12080

1800-1900 Chinese 15150, ex in English
1900-2100 English 12015
1900-2200 English 7295
1900-2300 English 9430
(Observer-BUL)

CUBA *Radio Havana Cuba* schedule:

0000-0030 Quechua 17705
0000-0100 French 9550
0000-0100 Spanish 5965 6000 9505 9600
9820 11760 15230
0100-0130 Creole 9550
0100-0500 English 6000 9820
0130-0200 French 9550
0200-0300 Spanish 5965 9505 9550 9600
11760 15230
0300-0500 Spanish 5965 9505 9550 9600
9655 11760 11875 15230
0300-0500 Spanish 9655 11875
0500-0700 English 9550 9820
0700-0730 Esperan. 9820 Su
1100-1500 Spanish 6000 9550 11705 11760
12000 15230
1400-1830v Span.-3 11670 11705 11875
13680 13750 17750
1500-1530 Esperan. 11760 Su
1930-2000 Esperan. 11760 Su
2000-2030 French 11760
2000-2030 Portug. 15120
2030-2130 English 9505 11760
2100-2300 Spanish 9550 15120 15230
2130-2200 Creole 9505
2130-2200 French 11760
2200-2230 French 9505
2200-2230 Portug. 17705
2230-2300 Creole 9505
2230-2300 Guarani 17705
2300-0100 Spanish-2 6000 11875 (Lunes a
Viernes)
2300-2330 Portug. 15230 17705
2300-2400 English 9550 9655
2330-2400 Esperan. 9505 9600 Su
2330-2400 Guarani 17705
2330-2400 Portug. 15230

Spanish-2 = Mesa Redonda Informativa

Spanish-3 = Al Presidente

(Lourdes Lopez, RHC via Dan Sampson, Prime Time Shortwave, 5/25/DX Listening Digest/Hauser-OK)

FINLAND *Radio Finland*, the external service of the Finnish Broadcasting Company (YLE), may decide to close down its service on the shortwave and mediumwave bands. This would leave external ser-

vice programming available only via satellite and on the Internet. The aim would be to cut expenses. Currently distribution costs for Radio Finland total 3.4 million euros annually. YLE Administrative Council is expected to decide the fate of shortwave later this year.

In 2002 Radio Finland closed down its services in English, German and French, while Finnish, Swedish and Russian programming continued on shortwave as well as for Northern Europe also on the mediumwave band. A source at YLE tells DXing.info that possible lobbying from the part of DXers would only reduce the chances of remaining on the air, because the only justification for shortwave is to serve expatriate Finns, who number about 250.000. A decision to cut shortwave would become easier if the station is viewed as serving primarily a fringe audience of radio hobbyists (DXing.info, June 9/DX Listening Digest/Hauser-OK)

YLE has responded by saying that it is not about to close down R. Finland. According to a press release, SW transmissions will continue in the present form until the end of 2006, when the current transmission contract expires and YLE "needs to consider various options." (DXing.info, June 9, 10 via DSWCI DX Window June 16/DX Listening Digest/Hauser-OK)

FRANCE Change for *Radio France International* in French to ME:

0300-0400 NF 9825 ISS 500 kW (ex-9425)
(Observer-BUL)

GEORGIA 4875, *Radio Hara* verified with e-mail QSL for follow-up report. They tell me the following information:

The public organization "The Institute of Georgian-Abkhazian Relations" (founded on December, 1999) carries out several programs. Project: "Informative-Musical Radio Programs in Abkhazian—Radio "Hara" is one of them. Head of the Institute and author of the project is Mr. Zourab Shengelia.

R "Hara" ("Hara" means "We" in Abkhazian) is on air since February, 1999 four times a week on 4875 from Tbilisi to Sukhumi, on Mondays and Thursdays on 21.00-21.30 (local time) and on 09.00-09.30 (local time) on Thursdays (Tuesdays? Ed) and Fridays. Several regular rubrics are broadcast: "world today," "Criminal chronicle," "news," "cultural chronicle," "sport chronicle," "literary page," "gossip from Hollywood," "horoscope," "modern Music," etc. R "Hara" deals with nearly all the problems but consciously avoids the theme of Georgian-Abkhazian conflict.

R. "Hara" by means of radio programs promotes development of democratic values and creation of open society, fills an informative gap that naturally emerges in case of conflict, creates favorable conditions for resuming cooperation and exchange of information, supports the process of development of

interconfidence. These objectives are achieved through launching several radio rubrics.

On our opinion project is successful—R "Hara" on the above mentioned frequency is heard not only on the territory of Georgia (including Abkhazia), but on the whole territory of Europe and even in Singapore and Japan in Asia (confirmed by letters of radio listeners from Finland, Sweden, Germany, Lithuania, etc).

V/s: Nino Berdznshvili, Manager of the Project and Zourab Shengelia. QTH: 52 Rustaveli avenue, apt. 211-212, Tbilisi, Georgia, 380008. E-mail: zourab.shengelia @ hotmail.com or league @ geoconst.org.ge (via Masato Ishii, Japan, DSWCI DX Window June 16/DX Listening Digest/Hauser-OK)

GERMANY Deutsche Telekom schedule, DRM omitted:

Radio Vilnius Lithuania

0000-0100 9855-JUL

Transmitter Documentation Project

1200-1500 6015-JUL Sa

1400-1500 6015-JUL Sa

1500-1600 6015-JUL Sa

Pan Am Broadcasting

0030-0100 9740-JUL Su

1400-1430 15650-JUL Sa/Su

1430-1500 15650-JUL Sa

1500-1515 15650-JUL Su

1530-1630 15650-JUL Su

Democratic Voice of Burma

2330-0030 9435-JUL

Radio Taiwan International

2000-2100 5960-JUL

Evangeliums Radio Hamburg

0858-1000 6045-JUL Su

Christliche Wissenschaft

0900-1000 6015-JUL Su

1800-1900 9655-JUL Sa

Bible Christian Association

1530-1600 6055-JUL Su

Evangelische Missions Gemeinden in Deutschland

1030-1100 6015-WER Sa/Su

1100-1130 15225-WER Sa

1500-1530 9635-WER Sa

HCJB

1700-1800 6015-WER

Radio Miami International

1800-1900 13650-JUL Su

Radio Reveil Paroles de Vie

1830-1900 15675-JUL Th

Sagalee Bilisummaa Oromoo

1700-1800 15670-JUL Su/Tu/We/Fr

Deutsche Telekom

1400-1500 5925-JUL Sa
 1500-1600 15715-JUL Sa
 1600-1700 15670-JUL Su/Th
 1630-1700 15670-JUL Tu/Fr
 1700-1800 15670-JUL Th
 1830-1930 15565-JUL We/Su

IBRA Radio Sweden

1730-1800 15450-WER
 1730-1845 15695-JUL
 1900-2015 9675-JUL
 2000-2100 7340-JUL

Universelles Leben

0100-0130 9485-JUL Su
 1100-1200 6015-JUL Su
 1130-1200 6015-JUL Sa
 1600-1630 15265-JUL Su
 1800-1830 15675-JUL Su
 1900-1930 13820-JUL Su

The Overcomer Broadcast

0300-0400 9490-JUL 9850-JUL 11645-JUL 13635-JUL 13770-JUL 13810-JUL 15695-JUL 15715-JUL
 0600-0800 6110-JUL
 1000-1025 9470-JUL 13810-JUL Sa
 1000-1100 11950-JUL 13820-WER 15195-JUL 15265-JUL 17565-JUL 17695-JUL 17860-JUL 21590-WER 21750-JUL 21760-JUL
 1000-1100 9470-JUL 13810-JUL Su-Fr
 1025-1100 9470-NAU 13810-NAV Sa
 1200-1300 6110-JUL Su
 1300-1400 6110-JUL 13810-JUL
 1400-1600 6110-JUL/WER 13810-JUL 21590-JUL
 1600-1900 17550-JUL
 1700-1900 17550-WER

Radio Television Belge de la communaute**Francaise**

0500-0710 17580-JUL
 0500-1000 17580-JUL Sa/Su
 1000-1130 21565-JUL
 1430-1800 17570-JUL Mo-Fr
 1500-1700 17570-JUL Sa/Su
 1700-1900 17570-JUL Fr

Bible Voice Broadcasting

0600-0630 13810-JUL We-Su
 0700-0815 5905-JUL Sa
 0700-0845 5905-JUL Su
 0845-1015 17595-WER Fr
 1615-1730 15235-JUL We/Fr
 1630-1700 13810-JUL Sa/Su
 1630-1730 13810-JUL Mo-Fr
 1700-1730 13810-JUL Sa
 1700-1730 15235-JUL Tu/Th
 1700-1800 15235-JUL Sa/Su
 1800-1900 13710-WER Th/Sa
 1800-1900 5970-JUL Sa
 1800-1915 13710-WER Su/Fr
 1800-1930 5970-JUL Su

1900-2000 9425-JUL Su
 1900-2000 9425-JUL Sa
 1915-1945 9425-JUL Fr
 1945-2015 12050-WER Fr
 2230-0130 5925-JUL

Bible Voice Broadcasting / High Adventure Ministries - The Voice of Hope

0715-0745 5905-JUL We-Fr
 1500-1600 17510-JUL Tu
 1500-1600 17510-JUL Sa
 1515-1800 15680-JUL 15715-JUL
 1530-1600 17510-JUL Su/Mo/We/Th/Fr
 1545-1615 15680-JUL 15715-JUL Mo/We/Fr
 1545-1645 15680-JUL 15715-JUL Th
 1545-1800 15680-JUL 15715-JUL Tu
 1545-1830 15680-JUL 15715-JUL Sa
 1615-1730 15235-JUL Mo
 1700-1730 15715-JUL Fr
 1700-1800 15680-JUL 15715-JUL We/Fr
 1700-1800 15715-JUL We
 1800-1900 11965-JUL Sa/Su
 1815-1830 5970-JUL Mo-Fr

Gospel For Asia

0030-0130 9495-WER
 1430-1529 15775-WER
 1530-1629 15660-WER
 2330-0030 9560-WER

WYFR Family Radio

1700-1800 13720-JUL
 2000-2100 13590-JUL 13855-JUL

Hrvraska Radio Televizija

0000-0400 9925-JUL
 0400-0500 9470-JUL 9925-JUL
 0500-0600 9470-JUL
 0600-0700 9470-JUL 13820-JUL
 0700-1000 13820-JUL
 2200-2400 9925-JUL

Radio Netherlands World Service

0600-0700 11655-JUL
 1800-2100 13845-WER Tu/We/Sa

Deutsche Welle

0500-0700 9590-JUL
 0600-1000 6140-JUL
 1000-1300 6140-JUL
 1300-1600 6140-JUL
 1600-1900 6140-JUL

Vlaamse Radio en Televisie (ex RVI)

0700-0730 5985-JUL
 1730-1900 9925-JUL
 1800-2000 5910-JUL Sa

Adventist World Radio

0500-0600 11665-JUL
 0900-1000 11775-JUL Su
 1900-2030 15175-JUL

Trans World Radio

0530-0545 7210-JUL Mo-Fr
 0830-0845 6105-JUL 7210-JUL Tu-Sa
 1030-1100 7225-JUL Sa 9490-JUL Sa

1227-1245 5945-JUL
 1557-1630 7240-JUL Sa
 1557-1700 6105-JUL Sa
 1627-1700 6105-JUL Su-Fr
 1810-1840 6015-JUL Mo-Th
 1825-1840 6015-JUL Sa/Su

Swiss Radio International

0555-0800 13650-JUL 15445-JUL 21770-SOT
 0825-1030 21770-SOT
 1625-1815 13750-JUL 15515-JUL 17870-SOT
 1825-2130 11815-JUL 13645-JUL 13795-SOT
 2155-2400 9885-SOT

Voice of Russia

0100-0300 5945-JUL
 1400-1500 15430-JUL
 1900-2100 5985-JUL 9825-JUL
 2000-2100 7260-JUL
 2200-2300 6145-JUL

International Broadcast Bureau

1500-1700 9565-JUL 11885-JUL
 0100-0300 11975-WER

(DTK T-systems, June 18/Bueschel-DE)

GUATEMALA 4052, May 29 0320-0420, **Radio Verdad**. Reactivated. During the broadcast the announcer said (in Spanish) that their transmitter problems had been solved, and therefore they were back on the air, and requesting reception reports. Lots of Christian hymns, some talks in Spanish and a full ID in Japanese. (Elmer Escoto-Honduras/HCDX/SW Bulletin/DX Listening Digest/Hauser-OK)

HONDURAS HRMI has in fact been inactive on both frequencies (3340 and 5010 kHz). A few months ago the station reactivated and I spoke with the director, who even talked about producing a short program (with yours truly) in English, destined specifically for DXers and SWLs abroad. But the station went off the air again a few days after that, and has been off the air ever since. I have tried talking to the director again, but the cellular number he was using at that time has been assigned to someone else. The failure seemed to be a faulty tube, from what he said at that time. Their antenna was a simple dipole. (Elmer Escoto, San Pedro Sula, Honduras, June 9/DX Listening Digest/Hauser-OK)

IRAN (non) Radio Pedar in Persian ceased transmission via RMP 500 kW: 1730-1830 Mon-Fri on 15585 (Observer-BUL)

ITALY Deleted freqs of RAI International:

0620-1300 Italian del 7180, now on 9670 only
 1335-1335 Albanian del 7190, now on 9610 only
 1400-1425 Italian del 17780, now on 21520 only
 1400-1415 Slovene del 7190, now on 9690 only
 1415-1435 German del 7190, now on 9690 only
 1435-1455 Croatian del 7190, now on 9690 only
 1500-1520 Turkish del 9690, now on 11775 only
 1520-1540 Greek del 9690, now on 11775 only

1540-1600 Bulgarian del 9690, now on 11775 only
 1810-1825 Czech del 7115, now on 6130 only
 1825-1840 Slovak del 7115, now on 6130 only
 1840-1900 Polish del 7115, now on 6130 only
 1910-1930 Serbian del 7240, now on 6130 only
 1910-1930 Somali del 9605, now on 11890 only
 1935-1955 Hungarian del 7240, now on 6130 only
 2115-2135 Romanian del 7255, now on 5970 only
 2135-2155 Czech del 7255, now on 5970 only
 2155-2210 Slovak del 7255, now on 5970 only
 2210-2225 Polish del 7255, now on 5970 only

RAI International sport program "Calcio" now on air at new day and new time: new 1820-2020 Sat on 9605, 11890, 17735, 17780, 21550 del 1250-1620 Sun on 9670, 11775, 17780, 21535, 21710 (Observer-BUL)

PAKISTAN Radio Pakistan is now using new 15100 for the World Service transmission towards WEU at 0800-1104 replacing 21465. English news at around 0800 has been extended to about 8 minutes, made possible by the retiming of the Sindhi news [which used to follow English] to 0755-0800. And with regard to English heard via R. Pakistan. Only the listed news transmissions can be relied on to appear, but there are also unscheduled transmissions, such as news conferences etc. which appear from time to time in the various World Service transmissions. (Noel Green, UK, May 29/DX Listening Digest/Hauser-OK)

PAPUA NEW GUINEA 4960, **CRN**, 0958-1300 June 4, first noted just above threshold level with male & female talk in English. "Hail Mary, Full of Grace" prayers by two people in unison at 1001. Flute music, then PNG sing-sing style of music at 1004. Signal improved to fair over the next half hour, with apparent BBC relay of two Brit-accented announcers to 1027, mentioning "Media(?) World News" and "BBC" and also "Radio New Zealand" at 1028. Vatican Radio interval signal at 1029, followed by xylophone and drums. Many mentions of Papua New Guinea by male & female announcers 1030-1032. Signal continued to improve slowly to Vatican Radio IS again at 1040. Devotion prayer reading 1045, Vatican IS at 1059, then clear ID by female "This is the Catholic Radio Network of Papua New Guinea" at 1059:50, followed by song "Thy Loving Kindness" and instrumental tunes. ID again at 1110 in English followed by mention of Rabaul, but the female announcer switched to Tok Pisin at this point. By 1130 CRN's signal had improved to very good, with a mix of male announcer in Tok Pisin and contemporary religious music to dead air from 1200:40 to 1201:08. Religious tunes continued uninterrupted to 1245, when a recorded mass or devotional segment from the Vatican was introduced by two male announcers. If this very good signal continues, it will be easily audible on the East Coast of the USA...better try for CRN before Wayne Wilson of TE-PNG tweaks the antenna system! (Guy Atkins, WA, Cumbre DX/DX Listening Digest/Hauser-OK)

The transmitter was commissioned on Friday night June 4 at 8.00pm local time, 1000 UT, and was officially handed over to the Catholic Radio Network. It uses 1 kW, with a Polar POD330 delta antenna, high radiation angle, and carrying the PNG CRN Network program.

The Catholic Diocese of Vanimo will be collecting local data concerning coverage into its primary broadcast service area in the week beginning June 7.

The Catholic Radio Network will handle all requests for QSLs and information, which should be sent to <news at rtapng.com.pg>

Correspondence already received by the Engineering Construction Manager, Mr Wayne Wilson, of TE(PNG), in Port Moresby, have been forwarded to Fr Mlak.

Reports of a technical nature from outside PNG, not requiring QSLs, are welcome, and may be sent direct to Wayne, at wwilson at tepng.com who will also send these on to Fr Mlak.

Reception of CRN has already been reported from many countries, including Russia, Ukraine, Belgium, Canada, USA, Japan, China, Australia, and New Zealand.

Capacity at CRN for managing overseas DX reports are extremely limited, and I have indicated that I would be able to provide some assistance in that process. I will be providing engineering consultancy to CRN on an ongoing basis on technical issues concerning frequency selection and usage. There is no official engineering based capability in PNG for technical monitoring of PNG broadcasts, due to funding constraints.

Should a frequency change be required for operations in the 3200-3400 kHz band (90 mb), any such broadcasts will not use frequencies already authorised to the NBC Kundu services, even though some of those stations are presently inactive, operate irregularly, are old, and are subject to frequent breakdowns.

There is detailed information about the development and operations of CRN at <http://www.catholicpng.pg/> [unfound when I checked at 2223 UT June 6—gh]

Please continue to send copies of QSL requests and general monitoring reports to me, bobpadula@engradio.org (Bob Padula, Melbourne, Australia, June 7/DX Listening Digest/Hauser-OK)

RUSSIA Additional freqs/changes for *Voice of Russia*:

1600-1700	English	WS	15540
1700-1800	Russian	WS	15540
1700-2000	French		13825
1000-1100	Korean	NF	7300, ex 7305
1100-1400	Chinese	NF	7300, ex 7305
1200-1300	Urdu	NF	15605 MSK, additional

1300-1400	Hindi	NF	15605 MSK, additional
1400-1500	English	NF	15605 MSK, additional
1600-1800	English	NF	9405 IRK, ex 7320
1600-1900	Arabic	NF	11610 MSK, additional
1700-2000	French	NF	15465 EKB, ex 13825

(Observer-BUL)

SRI LANKA Freq change for *Deutsche Welle* in Hindi via TRM 250 kW: 1515-1600 NF 6180 totally blocked by DW Mx in DRM mode, ex 6170 // 7225, 17595 (Observer-BUL)

SWEDEN Freq change for *Radio Sweden International* in Swedish from May 26:

2100-2130	NF	9930, ex-9925 //6065
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(Observer-BUL)

SYRIA [non]. *Radio Free Syria* started on June 20, 1800 13650/Cyprus transmitter? Started with what I assume is Syria's national anthem, several ID's, slogans, military type music. A fast paced program with various musical intermezzos. At 1830 using a techno dancetrack to announce a new topic (Domen-BEL/DX Listening Digest/Hauser-OK)

The US-based Reform Party of Syria radio station Radio Free Syria started Arabic-language broadcasts at 1800 gmt on 20 June 2004, on 13650 kHz.

The station came on the air abruptly, "crash starting" at 1800 gmt with music and slogans, identifying as Voice of Free Syria (Sawt al-Suriya al-Hurr). This was followed by a 10-minute news bulletin and commentary. The rest of the program consisted of a variety of Western and Arabic music interspersed with slogans by both male and female announcers. An Arabic-language commentary was heard between 1838 and 1852 gmt, with the station closing abruptly at 1859 gmt.

Bearings taken on this transmission show that the broadcast may originate from facilities near Köln, Germany. In the minute before Radio Free Syria came on the air, a brief clip of the opening of the Radio Free Syria program was heard on the same frequency, followed by several seconds of Deutsche Welle before the program "crash started" at 1800. (BBC Monitoring/DX Listening Digest/Hauser-OK)

UKRAINE Freqs change for *Radio Ukraine International* in Ukrainian eff. June 22 0000-0400 NF 9385 KHB 100 kW / 055 deg to RUS, ex 9380 1300-1700 NF 7425 KHB 100 kW / 055 deg to RUS, ex 7420 (Observer-BUL)

UNITED KINGDOM [non] *Radio Ezra* now on 17590 kHz, 0900-0930 Sundays only, via Krasnodar, Russia site. (John D. Hill, Station Owner/DX Listening Digest/Hauser-OK)

UNITED STATES LeSEA Broadcasting has purchased the Christian Science Publishing Society's shortwave station *WSHB*, Cypress Creek, South Carolina. Station will henceforth become part of World Harvest Radio. [Glenn assumes WSHB will be

renamed WHRI and the Indiana facility will be de-commissioned] (DX Listening Digest/Hauser-OK)

KTBN Salt Lake City looks to be about to close down; finally dawned on TBN Santa Ana HQ that there's not much point in simulcasting their TV audio delivered by satellite to dozens of transmitters (many full power) in the US, and abroad. KTBN is not a real radio station, just a transmitter site with an old vapor-cooled Harris SW-100, quite similar to the ones at WHR Noblesville, but apparently in much better working order. Might have been useful for parts if WHR weren't already moving operations to Cypress Creek. The land upon which KTBN sits is probably worth several megadollars in Salt Lake's growing real estate market, so just scrapping the transmitter might be the most cost-effective option. You may recall when TBN purchased KUSW, they put out all kinds of hype about how the SW station would help save souls all over the world. Trouble is, KUSW was engineered basically to (shhh!) cover North America, with high takeoff angle and broad beam. Combined with its location on the wrong side of the Mississippi, coverage of Europe is pretty much limited to those with DX equipment, and the signal peters out by Africa, and it was never aimed at Asia or Pacific where it might have a better chance. Still heard here on 15590 June 18 (Glenn Hauser, OK/DX Listening Digest)

Radio Free Asia A-04 updated schedule of June 12th, 2004.

0000-0100	Lao	12015I 13830 15545T
0030-0130	Burmese	11540 13680T 13820I 17835S
0100-0200	Uyghur	9350 11520 11895UAE 11945UAE 15405T 17640T 21470T
0100-0300	Tibetan	9365 11695UAE 11975WER 15225T 15695 17730
0300-0600	Mandarin	13670T 13760T 15130T 15685T 17495 17525 17615S 17880S 21690T
0600-0700	Mandarin	13670T 13760T 15165T 15685T 17495 17525 17615S 17880S
0600-0700	Tibetan	17485 17510 17720 21500T 21690UAE
1100-1200	Lao	9355S 9545T 15560I 15635
1100-1400	Tibetan	7470 11590 13625T 15510UAE 15695 17855S- (from 1200)
1230-1330	Cambodian	13645T 15525I 15670
1300-1400	Burmese	9455I 11540-S04 11765T 13745T 15680-J04
1400-1500	Cantonese	9780T 11715S 13790T
1400-1500	Vietnamese	9455S 9635T 11510 11535- S04 11605N 11680I 13775P 15705-J04
1500-1600	Tibetan	7470 11510 11705T 11780UAE 13825

1500-1600	Mandarin	7540-S04 9455T 9905P 11765T 12025S 13675T 13725T 15495T 15680-J04 7210IRK 9385S 13625T
1500-1700	Korean	7465 9350I 9370 9555UAE 11750I 11780T
1600-1700	Uyghur	
1600-1700	Mandarin	7540-S04 9455S 9905P 11795T 12025S 13675T 13715T 15530T 15680-J04
1700-1800	Mandarin	7540-S04 9355S 9455S 9540T 9905P 11795T 13625T del13680T 13715T 15510T 15680-J04
1800-1900	Mandarin	7530-S04 7540-S04 9355S 9455S 9540T 11520-J04 11665N 11700T 11740T 11995S 13625T del13680T 15510T 15680-J04
1900-2000	Mandarin	7530-S04 7540-S04 9355S 9455S 9905P 11520-J04 11700T 11740T 11785T 13625T del13680T 15510T 15680-J04
2000-2100	Mandarin	7530-S04 7540-S04 9355S 9455S 9850T 9905P 11520- J04 11700T 11740T 11785T 13625T 15680-J04
2100-2200	Mandarin	7540-S04 7105T 9850T 9910P 9920N 11700T 11740T 11935T 13625T 15680-J04
2100-2300	Korean	7460 9385S 9770T 12075T [new time]
2200-2300	Cantonese	9355S 9955P 11785T 13675T
2230-2330	Cambodian	9490I 9930P 13735T
2300-2359	Mandarin	7540-S04 9910P 11760T 13670T 13775S 15430T 15585T 15680-J04
2300-2359	Tibetan	7470 7550Y--S04 9365 9395-J04 9805UAE 9875T
2330-0029	Vietnamese	9975-S04 11540-J04 11560 11580 11605N 11670T 12110I 13735S 15560P

(various sources, updated on June 12th, 2004/Bue-schel-DE)

New schedules for **WHRI** Angel 1/2: Angel 1

0000-1000	7315
1000-1300	9495
1300-1700	15105
1700-2200	15665
2200-2400	9495
Angel 2	
0000-1300	7535
1300-1500	11670
1500-2100	13760
2100-2400	13770
2200-2400	9430 Mo-Fr

(Observer-BUL)



Pirate Radio Report

Chris Lobdell • P.O. Box 146 • Stoneham, MA 02180-0146 • clodbell@comcast.net

Hello and welcome to the July 2004 edition of the *Pirate Radio Report*. Summertime and the static is terrible but pirates are still active, so give 'em a try.

Pirate Popularity Contest Cancelled

Readers to this column will remember that we used to have a contest each spring to pick the most popular stations among the active pirates. Last year voting was way down, so I've cancelled the contest this year. Here are *my* personal picks for the three best pirates of 2003-2004:

1. **KIPM.** Allan Maxwell continues to produce some of the best original science fiction for radio, albeit a little paranoid at times. Keep it up Allan.
2. **WHYP.** The best AM audio around! James Brownyard has modified his Valiant transmitter to sound real good in AM and he even sounds good when using the 10 watt Grenade. JB also deserves credit for relaying others as well.
3. **Undercover Radio.** Dr. Benway always does nice shows and is very responsive to QSLing. Likes to relay shows from Mars as well!

Those are my picks, what about yours?

Loggings

Thanks to Brian Alexander in PA, Ralph Brandi in NJ and George Zeller in OH. Thanks guys!

Alfa Lima International. This Dutch pirate is again active. Noted on 15069.56 kHz at 0144 UTC on May 23rd. Station IDs heard in English, email address given as well. [Alexander-PA]


Ann Arbor Radio, a new one, was noted on 6925 kHz USB mode from 1833-1838 sign off and then back on and off 1845-1914 sign off on June 20th with an SIO of 242+. A new one to me. Young boy announcer who reminded me of the Sunshine R. guy. Announced as a Father's Day program. Some of the singing with a guitar may have been a live performance by the announcer him-

self. One of the intermissions in the show around 1858 was announced as a beer break; they said they would be back on after they had a few beers. I was a little tentative on the ID, but it was repeated so many times during the broadcast that I believe I copied it accurately. Gave no address, but asked for reports to FRN. [www.frn.net][Zeller-OH]

Crazy Wave Radio, a Europirate, was heard on 6305.05 kHz on May 30th from 0250 UTC. Long Ryders "Looking for Lewis and Clark", ID, e-mail, snail mail in Eisenach, derogatory comments about eastern Europeans, another ID "Crazy Wave Radio, 48 meters shortwave", David Bowie song "Jean Genie", canned ID, John Cougar, "Small Town", howdy to American DXers in exaggerated American accent, why are American DXers up in the middle of the night to listen to European pirates, ragging on Dubya, "such an old-fashioned medium for broadcasting is shortwave", sensible people have moved on to satellite, e-mail shortwave@gmx.de, phone number, address in Eisenach, last rock and roll pirate in Germany, and finally(!) another record, Deep Purple [Brandi-NJ]

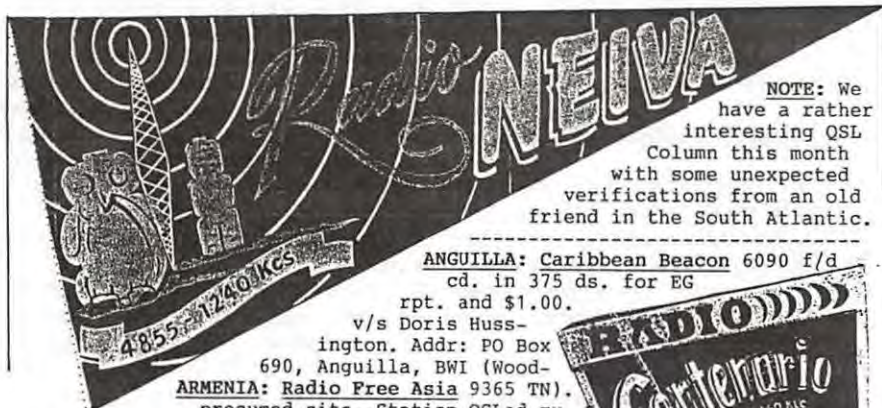
Indira Calling, logged on 6925 kHz in the AM mode from 0200 UTC sign on to 0224 sign off on June 6th with an SIO of 343+. Program of mainly east Indian mx, plus also some Beach Boys tunes with an Indian slant. Discussion of Roti, sitars, and George Zeller. Several IDs, w/Calcutta address and Providence Zip Code. [Zeller-OH]

Ragnar Radio, heard on 6925 AM from 0133-0243 sign off on June 20th with an SIO of 242-. Program of various rock mx including Jethro Tull and David Bowie. Said that they were on six hours earlier, and that this was their second xmsn of the day, but with a different antenna this time. Asked for reports to ragnarradio@yahoo.com several times. Said that they were hoping to reach the west coast with the improved antenna. [Zeller-OH]

Until next month. Happy Pirate DX! 

QSL Report

Sam Barto • 78 Blakeman Road • Thomaston, CT 06787



NOTE: We have a rather interesting QSL Column this month with some unexpected verifications from an old friend in the South Atlantic.

ANGUILLA: Caribbean Beacon 6090 f/d cd. in 375 ds. for EG rpt. and \$1.00.

v/s Doris Hussington. Addr: PO Box 690, Anguilla, BWI (Wood-

ARMENIA: Radio Free Asia 9365 TN).

presumed site. Station QSLed my e-mail rpt. w/ e-mail reply in 1 day from A.J. Janitschek confirming my 4 reported frequencies.

He stated QSL cd. would be mailed later. (D'Ang-
ASIATIC RUSSIA: Bible Voice Broadcasting elo-PA).
5945 via Khabarovsk f/d cd. w/ site in 1 mo. (Cra-
ighthead-KS).

AUSTRALIA: HCJB 15405 f/d computer generated photo QSL of the antenna array at Kununurra and the Melbourne studios. Program guide and sticker also rcvd. in 21 ds. (Delmage-ALB).

BOLIVIA: Radio Eco 4403 short personal ltr. w/ "Deer: * Beautiful Animal of the Beni Fauna" postcard in 417 ds.

from Rolman Medina Mendez, QSL Manager. (D'Angelo-PA).
Radio Santa Cruz 6135 p/d ltr. in SP on IRFA Cruz station-
ary w/ station seal in 22 ds. for \$2.00 and an EG rpt.
v/s Ma. Yolanda Marco Escobar, Secretaria de Direccion.

BOSNIA: International Radio of Serbia and Mon- (Barbour-NH).

* **tenegro** 7115 n/d "2004 QSL Special" cd. w/ a very sharp
looking station pennant in 93 ds. for \$1.00. The station is
offering pennants and cds. in celebration of their March 8
anniversary. (Barbour-NH).

BRASIL: Radio Guaiba 6000 p/d frequency only cd. in 23 ds. for a

taped rpt., ms (used), SASE & \$1.00. Station enclosed business cd. with the name of Ademar Joao Dallanora, Gerente Financeiro. Sticker was also received. (Sgrulletta).
Radio Tupi my rpt. was sent to C.P. 7133 in Curitiba and returned. Does anyone have a recent address for this station? (D'Angelo).



TARJETA DE VERIFICACION

Sr. Scott R. Barto

Confirmamos su recepción de
fecha 07/1/04 de nuestra Emisora,
RADIO "Santa Rosa", en la frecuencia de
6045 KHz ONDA CORTA; en la banda de
49 Mts la que está correcta y conforme a
la programación de ese día.

Lima, Perú 21/05/04

Juan Sokolich A. O.P
DIRECTOR

E-mail: juansokolich@hotmail.com
http://www.radioantarosara.com

SREBNA I CRNA GORA
RADIO



BEOGRAD
2004

Radio Congonhas 4775 f/d "Maroti" cd. w/ p/d ltr. in 49 ds. for ms.(used), \$1.00, SASE(not used) and a cassette tape. Sticker and pamphlet rcvd.(Sgrulletta-NY). Radio Bare Ltda. 4895 f/d ltr. in EG/PT w/ f/d prepared cd. in 5 wks. for a taped rpt., SASE(not used) address label and MS.(both used).

I also sent along \$1.00. v/s Socrates * Bomfim Neto.(Sgrulletta-NY). Radio Educacao Rural de Tefe 4925 f/d "Maroti" cd. in 35 ds. for a taped rpt., SASE (used), ms.(not used) and \$1.00. v/s Thomas Schwaborn (?), Diretor Administrativo. (Sgrulletta-NY). Radio Nacional de Amazonia 11780 f/d "Maroti" cd. and a n/d AltaVista EG translated ltr. in 1 mo. for a taped rpt., SASE(used), ms.(not used) and \$1.00. Also rcvd. 2 coins and a business cd. v/s Tais Ladeira, Gerente.(Sgrulletta-NY).

CHINA, PEOPLE'S REPUBLIC OF: Xinjiang People's Broadcasting Station 4980 f/d paper cd. w/ program sked.

NOTES: Scott Barbour is very pleased with his recent QSLs especially from new countries such as Latvia, Ethiopia and the Andaman & Nicobar Islands C/V total now stands at 98. I'm sure you must have surpassed 100 by now...Sam.

If you wish to reach Scott he can be contacted at srbjrswl@yahoo.com

in 39 ds.(D'Angelo-PA).

China National Radio - CPBS

7935 via Lingshi f/d "CNR Logo and Tower" cd. in 24 ds. for EG rpt. and \$1.00. Very attractive stamps on the envelope.(Barbour-NH).

GERMANY: Bible Voice Broadcasting 6025

via DTK Julich in 7 ds. from Walter Brodowsky, Account Manager for Shortwave Broadcasts. (D'Angelo-PA). f/d "World Map" cd. indicating "Bible Voice Middle East" in 9 ds. (D'Angelo-PA). 9690 e-mail reply in 1 day for an e-mail rpt. from Mrs. Marty McLaughlin. This was for their new test transmission to NA. (D'Angelo-PA). 6010 via Wertachtal same info as above. (D'Angelo-PA). 12005 via DTK Julich f/d cd. w/ site in 2 mos.(Craighead-KS).

Radio Rhino International 17870 and 17555 via DTK Julich f/d ltr. in 3 wks. v/s Walter Brodowsky.(Craighead-KS).

17780 "QSL Verification of Reception" ltr. on orange colored paper w/ dates and frequencies from Godfrey Ayoo, Director RRIA. (Barbour NH). Radio Free Afghanistan 11920 and 17725 via RFE / RL PWBR lists Holzkirchen as the site for 17725. (Field-MI). Voice of Russia 17705 via DTK Julich personal ltr. w/ schedule in 1 mo. (Field-MI).



新中国成立五十周年纪念卡

In Honor of the 50th Anniversary of the Founding of New China

October 1, 1949 - October 1, 1999

Dear Mr. Louis Smith,

Thanks for your report on our 9690kHz program, we send a schedule of our service to you.

中國廣播電台
英語服務部

Sincerely,
Yinglin,
English Service

RADIOFUSORAS
"HORIZONTE"
NUEVA DIMENSION EN SINIOMIA
RIBERA ALTA - BENI

1er ANIVERSARIO
16 de Julio
1988-1989



Dear Mr. D'Angelo,

Thank you very much for your letter and reception report. It's good to know we are being heard—even so far from our target area. We started broadcasting just two weeks ago, so for the moment we are not set up to send out QSL cards or other, more formal types of verification of the reception reports we receive. We hope to change this in the near future, however. For the moment, we are working to expand our programming capabilities and make sure people in Sudan are hearing us.

I am relatively new to shortwave. I used to listen to it when I lived in West Africa, but I know little about DXing and the die-hard shortwave community. It must be very interesting to follow transmissions from all over the world.

Thank you again for writing and if you have any further suggestions or questions, please let me know.

Best regards,

Jeremy Groce, Radio Programming Advisor

EDC (Education Development Center, Inc.)

Sudan Radio Service Project

GUYANA: Voice of

* Guyana 3291
p/d ltr. on
GBC letterhead
w/ "QSL, date
7 verified"
stamped on it.
It took 5 yrs.
of f/ups to
get this one.
(Price-VA).

HONG KONG: Radio

* Television Hong
Kong 8749usb
friendly ltr.
regarding my
rpt. of the Ro-
yal Yacht Race
weather trans-
mission. QSL
was rcvd. in
43 ds. for 1
IRC. v/s Ms.
Rachel Chan,
Director of

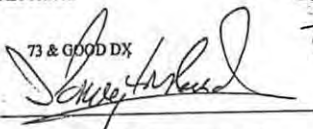
FOR YOUR CONSIDERATION: I wonder if we as a DX organization should give some consideration to Walter Brodowsky of DTK Julich as International DXer of the Year or as a Radio Personality. I believe he should be recognized at the next SWL Winterfest for all he has done for us over the past few years.

Dear

RICHARD A. D'ANGELO

Many thanks for your reception report of the RADIO NORD MEMORIAL PROGRAMME on June 30, 2002, commemorating the 40th anniversary of the close-down of Swedish offshore station Radio Nord. The programme was broadcasted over Sitkumai, Lithuania on 9980 kHz in the 31 m.b. with 100 kW.

Your details are correct.

73 & GOOD DX


Ronny Forstund, Programme Producer

2026-21 UZ
Thanks for the
stamp!

Would you like to read and answer all of those reception reports? Just thinking out loud..Sam.

Broadcasting. (Barbour-NH). "PCCW Season's Greetings" tri-panel folding cd. w/ lots of station info. about the Cape d'Aguilar HF Transmitting Station. v/s Cheng Kwok Sum, Assistant Engineer. This in 22 ds. for 1 IRC. Addr: Cape d'Aguilar Rd., PO Box 9896, Hong Kong. Barbour-NH).

ICELAND: AFRTS 13855usb n/d e-mail reply w/ site as Gfindavik in 1 day for an e-mail rpt. to keflavik@mediacen.navy.mil v/s Patricia Huizinga, OIC. Also rcvd. a friendly e-mail from the Keflavik Navy Chaplan, Bruce Pierce who operates a ham station. (Barbour-NH).

IRAN: Voice of Justice
* 6020 f/d "IRIB" cd. for "Khaju Bridge" in 102 ds. (D'Angelo)

ISRAEL: Galei Zahal-IDFR Radio 6973 f/d "Microphone Man" cd. w/ handwritten note

ALASKA TUFTED PUFFINS

Photo © Loren Tall



ACE-1421

1096205
Printed
in
U.S.A.

Station KNLS - Verification of Reception

Spring To Fall Broadcast Season 2003

Card # 38 of 200

For the broadcast: QSL is issued to:

Frequency 11765kHz
UTC Time 0800
UTC Date 06/06/2003

Henry Weissborn
11214 Cliffwood
Houston TX



CHRISTIAN VOICE (AUSTRALIA) LTD

Site address:
Cox Peninsula Transmitter Site
Via Darwin NT 0800
Australia

Power:
250 KW

Postal address:
PMB 5777
Darwin NT 0801
Australia

Email address:
lorne.manning@christianvoice.com.au

18 July 2001

Dear George *G/12/01*
Thank you for your reception report.

Date 8 July 2001
Frequency 21550 kHz
Time 0152 - 0205 UTC

We are happy to confirm our transmission as noted in your reception report.

I have enclosed some information on frequencies and times of broadcasting

Thank you for your interest.

Regards

L. Manning
Mrs Lorne Manning
Site Administrator

Universidad 6045 n/d ltr. in 32 ds. from L.C.C. Ma. Leticia Zavala Perez, Coordinadora General de Radio Universidad. The v/s said there was a present with the QSL; however, there was a hole in the envelope so I presume the pen "slipped out" while in transit. (D'Angelo).

MOROCCO: Radio Medi Un 9575 f/d cd. w/ station stamp and logo, form ltr. schedule and decal in 21 ds. for 2 IRCs. Now I have my 100th C/V. (Barbour-NH)

to try their website at: www.glz.msn.co.il. All in 70 ds. for 1 IRC. (Barbour).

JAPAN: Radio Tampa/NSWBC 9595 colorful f/d "Globe w/sheet music" cd. in 13 ds. for 1 IRC. Station has recently changed its name to Radio Nikkei. New QSL cds. will probably be issued. (Barbour)

KALININGRAD: Voice of Russia f/d "St. Petersburg is 300 Years Old" cd. in 17 ds. for an e-mail rpt. (D'Angelo-PA).

MALAGASY REPUBLIC: Radio Voice * of Peace 7310 n/d e-mail in 3 days after a f/up rpt. v/s John Masuku, Station Director. (Sgrulletta-NY).

MEXICO: Radio Transcontinental XERTA 4810 p/d multi-colored "Flags of 29 Nations" cd. in 7 wks. (Craighead-KS). p/d cd. in 7 mos. and 2 mos. after an e-mail QSL. (Sgrulletta-NY). p/d electronic "Certificado de Sintonia" in 123 ds. from charlaxerta@yahoo.com.mx. (D'Angelo-PA). p/d cd. in 19 ds. (Paszkievicz-WI). Radio



La Voz Evangelica de Honduras

Apto. en Tegucigalpa 3252
Honduras, Centro America

Tels. 34-3488 al 70
Fax: 33-3023
Direccion Cablegrafica
VOZEVHON

Tegucigalpa, Honduras

George L. Glotzbach *G/12/01*
5 Herrada Court, Santa Fe,
New Mexico, USA 87505

Reciba un caluroso saludo de parte de nuestra radio emisora y de nuestro Señor Jesucristo.

Estamos muy contentos de poder contestarle su carta y confirmarle que es nuestra emisora la que usted ha sintonizado.

Por lo pronto solo estamos enviando esta confirmación, esperamos poder enviarle la tarjeta de QSL en la siguiente ocasión.

Nuevamente gracias por su sintonía y correspondencia esperamos tener noticias suyas pronto. Si usted desea saber algo más sobre nuestra emisora puede escribirnos a nuestra dirección postal o a nuestro E-mail: hrcv@infanet.hn

Fraternalmente,

Dina Zúriga
Dina Zúriga

NOTES: Jerry Klinck says its been a good DX season. He says its kind of sad to look back over the years and see the number of tropical DX stations that have vacated the airwaves. I know what you mean... Sam. Actually, they are still there, we just are unable to hear them due to all the interference. Hi.

PARAGUAY: Radio Nacional

* del Paraguay 9736.8 e-mail reply in 6 ds. from Hector Diaz. The station is glad to be active after 4 years of inactivity and seems happy to receive reception reports. (D'Angelo-PA).

PERU: Radio Santa Rosa

6045 f/d "Tarjeta de Verificacion" cd. w/ station seal and pamphlet in 50 ds. for EG rpt. and \$2.00. v/s

Mr. Richard A. D'Angelo :

It is with great pleasure too that we received your Reception Report. thank for your kindly.

The program that you'd listened was Zhongyang Renmin Guangbo Diantai (Taiwan 2 Service) "Jiu zhou yi yuan" and "News" channel.

Can you speak Chinese? Have you been to China Beijing or the other place ?

My English is poor, maybe something wrong in my grammar or others.

Best regards to you and your family.

Very truly yours,
P.O. BOX 2105
Beijing, China

Pounceys, Saint Helena Island, South Atlantic Ocean. (Wilkins-MO). f/d cd. w/ ltr. for their 1999 transmission. Thanks to Mr. Kipp. (Neal-TX). via same route in 4.5 yrs. Also rcvd. copy of Mr. Leo's farewell ltr. My personal longest wait for a QSL. (Lawrensen-RI) f/d cd. w/ form ltr. via the offices of the Danish Shortwave Club. It took 4 yrs and 7 mos. (Wood-TN).

SIERRA LEONE: Radio UNAMSIL 6137.8 rcvd. 2 page personal ltr. w/ sked. * UNAMSIL Magazine and a T-shirt. 100 watts. (Sgrulletta-NY).

SLOVAKIA: Radio Slovakia International 9440 f/d "Building of Radio Bratislava" cd. in 16 ds. for an e-mail rpt. (Delmage-ALB).

SOUTH AFRICA: Educational Development Center 17565 via **SENTECH** f/d "Tygerberg Transmitting Station - Cape Town" cd. in 27 ds. v/s Kathy Otto. (D'Angelo-PA).

SWEDEN: Radio Sweden 13590 f/d "Warship Wasa" cd. rcvd. for a special broadcast of the "Bandy Championship" in 33 ds. (Barbour-NH). f/d friendly personal note written on the back of an enormous TERACOM - Marksand Digital TV coverage map for a rpt. on the "Bandy Championship". Bandy may be a cross between hurling and ice hockey played on a soccer field. v/s Magnus Urberg. All in 14 ds. for \$1.00. (Barbour)

SWITZERLAND: Swiss Radio International 11920 f/d multi-colored pictures of Switzerland w/ frequency guide and an SRI day planner/calendar in 10 days for a e-mail rpt. (Delmage-ALB).

TAJIKISTAN: Radio Free Asia 15680 f/d "Dalai Lama" cd. w/o site in 7 ds. for ms. Also rcvd. a personal ltr. & RFA sticker. v/s A.J. Janitschek, Manager. PWBR lists site as Tajikistan. (Barbour)

P. Juan Sokolich, Director. (Barbour-NH).

RUSSIA: TDP Radio 7560 f/d cd. in 97 * ds. from Ludo Maes. It would be appreciated if he put the transmitter sites on the QSLs knowing how important these details are to the DX hobbyist. After all, he turned his hobby of documenting transmitter site locations into a mini-business. (D'Angelo-

SAINT HELENA: ZHH Radio Saint Helena

* 11092.5 f/d "Map" cd. for the 1999 broadcast w/ ltr. of apology for the delay. v/s Ralph H. Peters, Station Manager. I also rcvd. ltr. from Tony Leo. All this was courtesy of Mr. Robert Kipp of Langen, Germany. He personally carried information to the islands for me and others. Also a big thanks to Glenn Hauser who publicized Kipp's trip in "DX Listener's Digest".
Addr: Radio Saint Helena,

PANAMERICANA
RADIO

Mr. George L. Grotzbach
5 Herrada Court
Santa Fe, NM 87508
USA

HRVATSKA RADIOTELEVIZIJA
ODŠILJAČI 11 ZE
10000 Zagreb
Pinaševič 3
HRVATSKA
tel: 01 634 36 63
fax: 01 634 36 36

Zagreb, 2002.07.22

Dear Mr. Grotzbach,

Thank You for listening to the Croatian Radio and sending reception report for the 2001 07 19 on 8930 kHz, from 8:35 to 14:45 UTC.
Starting with April 08, 2001, Croatian Radio will be using following schedule

TARGET AREA	FREQ. kHz	TIME UTC	LOCAL TIME
EUROPE	7.180	16:00-21:00	11:00-16:00 CET
EUROPE	9.830	07:00-19:30	08:00-19:30 CET
EUROPE	8.163	05:00-11:00	06:00-01:00
EUROPE	7.363	05:00-10:00	06:00-11:00
SOUTH AMERICA	8.925	00:00-01:00	21:00-23:00 FAT
NORTH AM EAST	9.925	02:00-01:00	21:00-23:00 EDT
NORTH AM WEST	9.925	04:00-01:00	23:00-22:00 PDT
NEW ZEALAND	9.470	06:00-08:00	19:00-21:00 NZT
AUSTRALIA	13.830	08:00-10:00	14:00-21:30 EAT

For more information visit homepage at <http://www.hrtrh.hr/>, or write Sincerely yours,

Dane Pavlic
+385 1 6343928
+385 1 2820700
E-mail: D.Pavlic@hrt.hr

John T. Aguilera
337 Baitlet Hill Road
Mahopac, NY 10541-2605
United States of America
e-mail: jthaw@burlweb.net

YSDA Radio Ingresal
Apartado postal 26
Sotonote C/1, Salvador CA
Tel: (502) 451-2378
Fax: (502) 450-0189

Querido Sr. John T. Aguilera. Saludos para
Usted y los que estan con usted. Recibo las saludes
desde los estudios de Radio Ingresal.

Queremos mencionar que en estos ultimos dias
hemos estado trabajando en la antenna de 6u.
para poder ser su muestra señal puede llegar
mas fuerte y clara.

Recibimos su carta primero y despues su
fax y le confimo que si la recepcion que
usted oy cuando es de Radio Ingresal.
Aqui esta su QSL.

QSL
Certificado de Señal
Estacion YSDA Radio Ingresal "El Salvador"
Para John T. Aguilera NY USA
Atencion gracias por su informe de recepcion. Tenemos el gusto de decirle que
en nuestra emisora en 12.935 Mhz de fecha 21 Sept. 93
a las 18:30 - 19:17 horas de 21-Septiembre, en 9.304 radio
de potencia.


John



NOTES: i'd like to thank **Matt Hendricks** of De Queen, AR for the QSL illustrations. We will use them in a future QSL Column. **Bill Wilkins** says that he was extremely pleased with the Radio Cascadia International QSL. At one point QSLs were so far and few between Bill thought he would never send another rpt. to the QSL Column.

USA: Voice of the NASB 7385 via **WRMI Radio Miami International** f/d "World Map / Logo" cd. listing my reception in analog. Also rcvd. station sticker and a tourist brochure in 43 ds. for SASE (used). v/s Jeff White. (Barbour-NH). f/d cd. in 5 wks. (Craighead-KS). **WJIE** 7490 cd. in 1 mo. (Field-MI).

USA (Pirates): **KAOS** 6925 my report to the Belfast, NY mail drop was returned because the operator of KAOS "Joe Mama" died in a motorcycle accident several years ago. The drop presumed that what another USA pirate. (D'Angelo). sheet QSL in 23 ds. The QSL in-

I heard was a "tribute" broadcast from **Ragor Radio** 6925 f/d "Show Play List" indicated that the power was 150 watts into a dipole antenna and the program was "2004-08 Selected Cuts". (D'Angelo-PA). **KRMI Radio Michigan International** 6925 verified an electronic report with a f/d "Map" cd. reply featuring a shamrock and leprechaun in honor of their Saint Patrick's Day broadcast. Rcvd. in 25 ds. (D'Angelo-PA). rcvd. a p/d e-mail QSL in 1 yr. for posting a report. (Wood-TN).

IT'S ON THE WEB



www.voanews.com

NOTES: **Richard Lawrensen** in Tiverton, RI says he has just purchased an ICOM R-75 receiver and an SP-21 speaker. Hope this helps the reception...**Sam. Scott Barbour** has recently changed jobs. At the start of the QSL Column, Scott was hoping to get to 100 C/V's. Now he has surpassed the 100 mark and received the "DX Centurion" award from Gary Neal and NASWA. Quite an improvement for 5 pages. Hi...Sam.

Wir befragen Ihren
Ermöglicht von
Thank you for
your report of **17.2003** UTC
for unsere Frequenz
(of our frequency) **7.365** kHz/MHz
Bemerkungen
Comments **Rundfunk
Berlin-Brandenburg
Masurenallee 8-14
14057 Berlin**

inforADIO
www.inforadio.de
Möchten weiterhin einen guten
Dienstag unserer Sendungen
We hope that you will continue to receive our pro-
grammes in good quality and that you will enjoy them.
Mit freundlichen Grüßen
Best regards
**Rundfunk
Berlin-Brandenburg (RBB)
aus ORF und SFB**
SFB

*Mr. Richard A. D'Angelo
206 Purkey Drive
Hypomissing PA 19610
U.S.A.*

I guess I can end it here.
Remember my new address:
78 Blakeman Road, Thomas-
ton, CT 06787

Ross

Net Notes

Tom Sundstrom • P.O. Box 2275 • Vincentown, NJ 08088-2275 • Fax: 609-859-3226 • trs@trsc.com
http://www.trsc.com

The brutal news coming out of Iraq and Saudi Arabia is depressing to say the least and we can only hope that our service personnel and allies come home safely. There are two sides to a news story, and like it or not Al Jazeera is the defacto outlet for the bad guys. It used to be the only Web site was in Arabic at aljazeera.net, but within the last few weeks two English language sites have come to our attention. The english.aljazeera.net seems to be much closer in style and format to the Arabic pages than the pumped-up "International" edition at aljazeera.com. I still can find more video on the Arabic pages than on the other sites by looking for the tiny camera graphics.

When researching news coverage, Kim Elliott of the VOA likes Google (news.google.com) and the UK's Guardian (media.guardian.co.uk), looking at the radio section. The latter site requires registration; the data requested is unobtrusive.

Given the attention to the area of the world, it would be helpful to understand Arabic. I cannot judge the quality of the translation, but Tarjim offers two-way Arabic-English that may be worth exploring: tarjim.ajeab.com/ajeab. This is part of an Egyptian portal site at english.ajeab.com that has yet another tack on the news.

Iran's international service Web site has been significantly upgraded. Each of the 25 languages has its own page or pages, and there is streaming audio for 5 languages including English and Spanish. I happened to tune into the the usual English hour to NA at 0030 UT, and the English continued at 0130 with the *Voice of Justice* program.

If you hunt on the IRIB TV and

SAHAR TV pages you'll find three video links -- unfortunately not working at the moment -- that bear watching.

Start tuning at www.irib.ir/worldservice and see what you find.

Data and history on countries, cities, towns and organizations is readily available on the 'net. I for one find it difficult to keep all the groups operating in the Middle East theatre straight, and a surprisingly quick encyclopedia puts the facts in order for me. Look at the excellent en.wikipedia.org and give it a try. I couple this with refdesk.com and dictionary.com, and my online reference tools -- three links -- are a click away at the top of the listing.

If you missed Mark Fine's recent announcement in the June *Monitoring Times*, he's out of the schedules "business" due to increased work responsibilities. MT's new Schedules editor is Daniel Sampson of Prime Time Shortwave. For years the URL was www.triwest.net/~dsampson/shortwave but in December 2002 Sampson acquired primetimeshortwave.com that now befits its increased exposure. Of particular interest to this Palm T3 owner, there are schedules formatted for Palm (and other PDA) owners.

Where *do* domain names come from? Starchat servers host the IRC channel #swl. I typed starchat.org instead of ...net into the browser line and launched *Ai: Your Ultimate Search Engine* at ai.com, part of Future Media Architects (fma.com). The search engine is no threat to Google, Dogpile or others we all know and love, but it does turn up some interesting pages I've not seen elsewhere.

Contributors' Page

Bob Montgomery • P.O. Box 1458 • Levittown, PA 19058 • RMonty23@netzero.net

DEADLINE FOR CONTRIBUTIONS IS THE 10th OF THE MONTH

The following members sent in contributions:

Brian ALEXANDER, Mechanicsburg, PA	NRD-545 AOR AR-7030 100' LW
Scott BARBOUR, Intervale, NH	R-75, MLB-1, RS antenna system
Jerry BERG, Lexington, MA	R8A 165' LW
Ralph BRANDI, Middletown, NJ	AOR7030, R8, 300' longwire
Jim CLAR, Rochester, NY	R8, Eavesdropper dipole, Palomar loop
Rich D'ANGELO, Wyomissing, PA	TenTec R340, Lowe HF-150, DX Sloper
Bob FRASER, Belfast, ME	Sony ICF-2003 ICF-SW100S 2m LW
George MAROTI, Mt. Kisco, NY	R8B, 2010, 30/45 m. dipoles
William McGUIRE, Cheverly, MD	DX-380
Bob MONTGOMERY, Levittown, PA	NRD535D, R390A, RX320, HF150, SE3, T2FD,
David MUEHLING, Portsmouth, NH	Sat 800, 40' long wire
Sheryl PASZKIEWICZ, Manitowoc, WI	ICOM R-8500, NRD345, AOR LA-350
Betsy ROBINSON, Clinton, TN	Sony 2010 Indoor antenna
Louis Crisler SMITH, Thurmond, NJ	R-75, 160' long wire
Nobuo TAKENO, Yamagata, JAPAN	NRD-535D with 10 m wire

WELCOME TO THE FOLLOWING NEW MEMBERS

ALFRED G. ROBINSON, Longview, TX
CHARLES H. MEADE, Locust Valley, NY
JEFF BUDA, Beverly, MA
EDWARD BREEDEN, Raleigh, NC
SIDNEY RICE, Wilmington, DE
TED ETLING, Philadelphia, PA
DAVE JOHNSON, Derwood, MD
PAUL SHALLBETTER, Faribault, MN
TOM LEDOUX, Chalfont, PA
BOB MILNE, Austintown, OH

Tropical Band Loggings

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- 1819.37 **COLOMBIA Ondas Porvenir**[H][t], Samacá seemingly the Colombian 0900 to 0930, ments de Bogotá but no ID (Wilkner-FL)
- 2305 **UNID** M in lang 1010-1032 w/deep fades, 6/12. M w/lang vcls 0905-0930 6/13.(Wilkner-FL)
- 2310 **AUSTRALIA ABC Alice Springs** 1010 EE nx; strong; 6/12. (Wilkner-FL)
- 2379.9 **BRAZIL R. Educadora** 1000-1030 PP W w/mx; fair 6/9-12. (Wilkner-FL) Presumed 0838-0853 5/27 PP; vy weak under QRN w/ music and lengthy talks. Unusable by t/out. (Barbour-NH)
- 2390 **MEXICO R. Huayacocotla** 0058 M SS "Radio Huayacocotla" ID 6/7.(Wilkner-FL)
- 3172.59 **PERU R. Municipal** Panoa 0952 6/5 mx, no anmt 1000; 1021-1030 OA mx w/yipping, one ID as "...Municipal..." 6/6; 1025 ID as "Municipal ...senor y senores" by M 6/7, mx 1010 6/10.(Wilkner-FL)
- 3200 **SWAZILAND TWR** 0310-0317* 5/15 Vernacular, M&W w/ talks, POB for TWR, Zimbabwe office, choral music, ID, IS 0315, OC to 0317. (Barbour-NH)
- 3215 **MADAGASCAR AWR** 0318-0330* 5/30, rel vcls & tlks in Malagasy by W; ID & s/off anmts 0328 by M; fair. (D'Angelo-PA) 0241-0301 6/14 Vernacular/EE; M w/rel svc in lang w/occ EE phrases, choral mx. No discernible ID 0300. (Barbour-NH)
- 3215 **S.AFRICA AWR** Meyerton 1800 //3345; rel px. Weak. 5/22 (Takeno-JP)
- 3223 **INDIA AIR Shimla** //3315 Bhopal; 1741 s/off; fair 5/22 (Takeno-JP)
- 3230 **S.AFRICA Family R.** Meyerton 1959 EE & Family R's mx. Fair. 5/15 (Takeno-JP)
- 3234.8 **PERU R. Luz y Sonido** 0952 5/16; fairly weak copy at S3 signal
- 3235 **BRAZIL R. Guaraja Paulista** 0035-0048 6/5 PP w/(presumed) IDs between selections. Fair w/ a few peaks above the QRN. // 5045 hampered by WWRB 5050 splatter. (Barbour-NH)
- 3255 **S.AFRICA BBC** Meyerton 1955 cl mx; 2000 BBC nx,Fair 5/15 (Takeno-JP)
- 3279.54 **ECUADOR LV del Napo** 1005-1015+ HC folk mx. SS anmts & tlk; fair 5/16. (Alexander-PA)
- 3287.67 **MADAGASCAR RTV Malagasy** Antananarivo 1942 nice Afr pop mx & talk in vernacular; // 5010kHz. Weak. 5/15 (Takeno-JP)
- 3300 **GUATEMALA R. Cultural** 0953-1010 6/10, cont Latin vcls till M SS ID, brief talk & more vocals. Poor to fair. (D'Angelo-PA)
- 3306 **ZIMBABWE ZBC** 0027 6/1 fairly nice sig w/cont lcl mx; S5 sig w/some fades and static crashes. Best heard in some time. (Montgomery, PA) 1926 tlk & Afr mx, "Radio One" anmt; good 5/8 (Takeno-JP)
- 3310 **BOLIVIA(T) R. Mosoj Chaski** 0122 5/30 W SS tlk peaking above noise; Rustic mx - andean vocals, flutes and soft guitar clearly audible. Signal seemed to be gone after 0130. No discernable s/of anmt or ID hrd. (Clar-NY)
- 3315 **INDIA AIR Bhopal** 1730 EE/Hindi nx, ID; 1741*; good 5/22 (Takeno-JP)
- 3320 **S.AFRICA R. SonderGrense** Meyerton 0028 6/1 M&W w/long AFrikaans
- 3345 **S.AFRICA Channel Africa** Meyerton 1958 IS & EE talk; fair but QRM from Ternate; 5/15. (Takeno-JP) 0458 6 time pips at TOH, W ID & s/off; weak but audible in EE; 6/6 (Montgomery,PA)
- 3385 **PNG R. E. N. Britain** 1007 5/16 choir; W ancr in poss EE; M ancr over mx; pop tune 1012; at times lost total audio and then back; by 1020 most of the signal is gone. ID is presumed. (Montgomery, PA)
- 3926.9 **PIRATE (Euro) R. Spaceman** 0107-0143* 6/6; greetings to USA listeners, including yours truly, polka music, then a slow version of "House of the Rising Sun". Rock/pop music by the Who and T-Rex. Quick sign-off with "Spaceman" at 0143 UTC. SINPO 33333. (Maroti-NY)
- 4000.16 **INDONESIA RRI Kendari** 1011 AA style mx; no QRM from China. Good 5/22 (Takeno-JP)
- 4052.47 **GUATEMALA R. Verdad** Chiquimula 0120-0200+ presumed w/with rel mx; vy poor; wk in noisy conditions. (Alexander-PA 5-29) 4052.5 0446 6/6 M vocalist w/rel px; S5 signal w/static crashes. Nice modulation. (Montgomery, PA)
- 4386.6 **PERU R. Imperio** 0827-0850 6/4 fast talking M ancr w/SS ID, TC & anmts hosting a pgm of lively Peruvian vocals and frequently talking over the music. Fair. (D'Angelo-PA)
- 4635 **TAJIKISTAN Tajik Radio** (presumed) 2342-0012, Tajik/Russian (listed), vocal mx, alternating talks by M&W w/ Arabic/Central Asian style wind instrument mx bridges. Up-tempo mx bridge 2359; dead air till M 0000 w/ presumed ID & "sweeping" music into news until more dead air 0009; then classical/choral music bits b/w M&W tlks. Weak but steady signal under constant static. (Barbour-NH)
- 4750 **SUDAN R. Peace** 0302-0315 6/8 Vernacular/EE, choral mx & talks in language, full ID 0313, "This is Radio Peace b/cing on 4750 in the 60m band", brief choral music and quick "This is Radio Peace" ID. Fair w/ USB chatter. (Barbour-NH)

- 4755 **BRAZIL R. Educação Rural** (presumed) 0126-0150 6/18 M PP talks b/w ballads, presumed "canned" ID 0144 w/ mentions of "kHz" and "onda corta", back to music. Audible under heavy static. (Barbour-NH)
- 4760 **LIBERIA ELWA** *0556-0605+ IS, rel mx 0559; EE rel pgming 0600. Poor, weak signal in noisy conditons. (Alexander-PA 5-31) 2237-2301* 6/7 EE rel px hosted by Charles White re Psalm 22. Contact info given though unable to clearly copy. Ancr w/ weak audio w/ s/off anmts, NA. Fair, best copy here in quite some time. (Barbour-NH)
- 4770 **NIGERIA R. Nigeria** 0500 6/14 M EE nx, heavy static crashes. (Bergadano-NJ)
- 4810 **MEXICO XERTA R. Transcontinental de America** 0315-0343 6/7, short features w/IDs b/w segments, incl. EE ID 0330; fair but CODAR & terrible growl made reception difficult. (D'Angelo-PA)
- 4832 **HONDURAS R. Literol** 0027 5/17 MSS ancw w/mx px; vy weak; M ID 0030 twice. (Montgomery, PA)
- 4835 **MALIRTV Malienne** 2350 6/5 in Vern; F/P w/QRN; Afro rhythms to M w/tlk, ID, ments. "Bamako" & s/off, then NA. Gone 0002. (Clar-NY)
- 4845.24 **BRAZIL R. Cultura Ondas Tropicais** 0230-0259* Brz ballads, PP talk, ID & s/off anmts, then 4 minute long NA. On later than usual. Good signal. (Alexander-PA 5-8)
- 4869.2 **ECUADOR LV del Upano** *0956-1007 5/25, lively Latin vocals, ID 1001, choral NA. M SS ID 1004 ID ("Radio Difusora Catholica Cultural. La Voz del Upano."), fqy anmts; good signal with deep fades. (D'Angelo-PA) 4869.98 0955-1015+ 5/16 lcl ballads, sevl IDs 1001 & 1003; rel pgmg w/rel recitations; fair. (Alexander-PA)
- 4880 **S. AFRICA SWR Africa** (P), Meyerton 1740 AIR signed off and f/in. Only talk px. Presumed SWR from Meyerton to Zimbabwe. Weak. 5/22 (Takeno-JP)
- 4890 **GABON RFI** 0506 5/25/2004 M&W w/nx; S8 sig, minor fades, static. (Montgomery, PA)
- 4903.57 **BOLIVIA R. San Miguel** Riberalta 1010-1030 6/11 M&W numerous ID's, exc. (Wilknr-FL) 4904.26V 0130-0202* 5/8 lcl mx. SS talk, ID. Abrupt s/off. Poor-weak. (Alexander-PA 5-8)
- 4910 **ZAMBIA R. Zambia** 0440 6/6 S7 signal level with fairly steady signal despite static crashes. Two male announcer in what sounded like a play in local language. (Montgomery, PA) 0428 6/14 unid lang, Afro pop mx, time pips 0432. No ID heard, gone by 0457 (Murphys Law). (Bergadano-NJ).
- 4914.96 **KENYA Kenya BC** (P) Nairobi 1901 M&W talk; 1908 NA? of Chorus mx 1909 signed off. QRM from Ghana 4915. 5/4 (Takeno-JP)
- 4925 **BRAZIL R. Educação Rural** 0034-0110 6/9 M&W PP tlk, group vocals; mix of talks and mx selections. ID 0055, then laser sound effect. Poor to fair. (D'Angelo-PA)
- 4950 **ANGOLA R. Nacional** 2350 5/30 PP w/QRN. (M) w/ pgm of pop mx incl. Elton John ("Daniel") and Billy Joel, tlk between songs, canned ID's and promos/jingles to pips and (presumed) nx at ToH. (Clar-NY)
- 4965 **ZAMBIA RCV** 2320-2316 6/2 EE "Lighthouse" prg; contemporary rel mx, testimonials and W tlks w/ contact info. "Mothers Day" mentioned so possibly a repeat program. Poor. (Barbour-NH) 0005 5/31 P w/QRN. (W) ancnc. w/ tlk incld. ID's and pop mx - may have been playing dedications (??). (Clar-NY) 6/06 0418 EE REL, fairly good (Paszkiwicz-WI) EE 2328 6/15 fair w/QRN; Insp. mx w/reggae flavor - "Praise Him in the morning & Praise Him when the Evening comes," followed by a (W) discussing integrity from a book entitled "God's Devotional." "Radio Christian Voice" ID's. (Clar-NY)
- 4985 **BRAZIL R. Brazil Central** 2234 6/14, PP prg w/local ads, this one doesn't normally show up til late in the evening. (Bergadano-NJ).
- 4995.6 **PERU R. Andina** 0242-0303* 6/5 long SS tlk by M, then OA vocal selection; more tlk, then ID, s/off anmts, choral NA. Poor. (D'Angelo-PA)
- 5010 **INDIA AIR Thiruvananthapuram** 0030-0108 6/7 Vernacular/EE; W tent ID, talks in Vernacular, M EE nx 0035-0040, ments USA & economic figures, ID 0040; Hindi mx w/ W in lang b/w selections, cl.mx intro w/ M thru 0100 w/ soundbites then "excitable" M w/ talks thru t/out. Poor at t/in, improved to fair by 0045 with no sign of co-channel R. Cristal/Pueblo, Dominican Republic throughout. (Barbour-NH) Also noted were AIR regionals 4840 Mumbai with a readable signal over/under "sweeper" QRM and tentative 4910 Jaipur under heavy static. *0018-0050, June 8, Vernacular/English, Logged second night in a row w/ IS, NA and M w/ ID, tlks w/ weak audio. ID at 0025, different M w/ tlks, original M at 0030 w/ musical bits. W at 0035 in English, "This is All India Radio, the news read by (announcers name)", Same W w/ news re Nat'l Democratic Alliance meeting in Delhi, finalized budget, UN delegation and celestial event re Venus eclipsing the Sun. Back to M at 0040 w/ much improved audio w/ continuous mx and talks b/w selections until t/out. Fair/good signal w/ still no sign of R.Cristal/Pueblo, Dominican Republic. Get it while you can! (Barbour-NH) *0016-0042 6/14 OC, IS 0018; Hindi vcl 0020; M Hindi tlk; ID 0029:30, flute mx' 0035 M EE ID, anmt, nx; fair. (D'Angelo-PA) *0016-0042 Jun 14, open carrier followed by IS at 0018. Hindi vcl at 0020 followed by Hindi talk by a man. ID at 0029:30 followed by flute music. At 0035 a man with an English ID and introduction to the news: "This is All India radio, the news." Fair. (D'Angelo-PA)

- 5014.6 PERU R. *Altura* 1009-1022 6/10 M anc, long SS chatter hosting a program of "musica nacional." After a selection of flute music, had M ID 1018, ment Cerro de Pasco, then ad string, Poor to fair and fading fast. (D'Angelo-PA)
- 5027.13 PAKISTAN R. *Pakistan* Quetta 1749 5/22 Indian type mx. 1800 nx by woman in Urdu? 1810 Clear ID then NA and sigend off. (Takeno-JP)
- 5030 BURKINA FASO R. *Burkina* 2340 6/15 FF & Vern, hi-life mx, M w/tlk, "Radio Burkina" ID's b/w songs, presumed TC 2345. (Clar-NY) 2304-2324 6/7 M FF anc, continuous talks and occasional 1 minute breaks for Vernacular vocal music. Good. (Barbour-NH)
- 5240 TIBET *Xizang PBS* Lhasa 2243-2304 6/6; Tibetan, Previously reported, repeating format of pounding drums and M w/ wailing vocals & fast-paced "sing-song" chanting. 10 minute block at 2250 of presumed ads/anmts w/ mx bits. Up-tempo music and fanfare at 2300, M&W w/ presumed ID and nx. Fair w/ Morse code QRM at 2300 sharp. (Barbour-NH)
- 5500 ERITREA *VO Peace & Democracy* 0317-0338 6/8 Tigryna, M&W tlks & Horn of Africa music. Fair. // 6250 fair under ute QRM. (Barbour-NH)
- 5637.23 PERU R. *Peru* San Ignacio 0145-0515* 5/9 OA folk mx, SS anmts. ID. Abruptly pulled plug mid-song 0515. Weak. (Alexander-PA)
- 5815 DENMARK *WMR* 2324-2339 6/7 EE, pop mx by the Police and a host of unid pops & ballads, jingle at 2329. Weak but steady, // 15180 very weak under static. (Barbour-NH) 0222-0330+ 5/19, nice selection of recognizable oldies with a string of Eric Clapton songs followed by a lot of stuff I wasn't familiar with. Jingle ID noted at 0303 and again at 0339. Static crashes due to local thunderstorm activity marred reception. Generally, poor to fair reception, some deep fades and periodic splatter from WEWN all the way up on 5825. Nice to have Denmark back on shortwave! (D'Angelo-PA)

WELCOME TO THE FOLLOWING NEW MEMBERS

JOSEPH PIA, Pittsford, NY
 CHRIS E. HUBBARD, Xenia, OH
 TOM NEWTON, Salem, NH
 ARCHIE H. DAVIS, Savannah, GA
 MICHAEL L. HELLMAN, N. Huntingdon, PA
 WILLIAM F. WOLFREYS, Dorchester, MA
 GARY L. CRAMER, Stroudsburg, PA
 J. M. KLEIN, Goldenrod, FL
 LEOPOLD N. LEGENORE, Wyandanch, NY
 KENNETH LYON, Lockport, NY
 FRANCIS CROAT, Onamia, MN
 ROLAND F. ARCHER, Raleigh, NC
 ROGER MILLER, Scarsdale, NY
 TEDD ROBERTS, Meadville, PA

International Band Loggings

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- 5930 SLOVAKIA *RSI* in EG *0057-0128*, IS, ID, fanfare, fqys, nx, "Slovakia Today" f (Barbour NH 5/20)
- 59525 BOLIVIA *R Pio Doce* in SP 1055, tlk by OM/YL, "Pio Doce" ID 1100, jingle, g (Takeno JP 5/15)
- 5990 CUBA *China R Int* relay in EG/SP 2355, IS, ID, national nx, into SP xmsn 0000, g (McGuire MD 6/7)
- 59969 PERU *R Melodia* Arequipa in SP 0711, long tlks, ID's, still going at 0732 t/out, f (Barbour NH 5/14)
- 6005 GERMANY *Deut Radio Berlin* in GM 0020, rap/hip-hop style mx, TC, ID's, jingle (Clar NY 5/29)
- 6010 CANADA *R Sweden* relay Sackville in EG 0130, IS, ID, nat'l nx, rpt on medicine (McGuire MD 6/1)
- 6040 CANADA *China R Int* relay in EG 1118. tlk re proposed Sino-Japan industrial pact (Fraser ME 5/15)
- 6040 BRAZIL *R Clube Paranaense* in PT 0032, tlks, ID's, BR pops/romantic songs, f (D'Angelo PA 6/8)
- 6055 RWANDA *R Rwanda* in EG 1835, ment Rwanda situation, ID, QRM Slovakia xmsn (Takeno JP 5/22)
- 6090 NIGERIA *R Nigeria* Kaduna in Hausa 2024, tlk, traditional mx, ID 2057, f (Takeno JP 5/1)
- 6105 BRAZIL *R Cultural Filadelfia* in PT 0005, ID's, fqys, no NA at 0009 s/off, p-f (D'Angelo PA 6/9)
- 61055 BOLIVIA *R Panamericana* La Paz in SP 0108, SP vocals, IS, LA nx, relig mx (Paszkiwicz WI 6/6)
- 61148 PERU *R Union* Lima in SP 0745-0900+, ancmts, ID's, LA mx, sfex, ads, brief OA flute mx, phone-ins interspersed with mx at TOH, f-g (Alexander PA 5/31, Brandi NJ 6/2)
- 61155 ALBANIA *R Tirana* in EG *0226-0300*, ID, sked, fqy ancmt, nx, Musical Program of the Week, full xmsn hosted by YL w/production values suffering, slightly above nominal fqy, f (D'Angelo PA 5/27)
- 61348 BOLIVIA *R Santa Cruz* in SP 0857, SP pops, ID, fqy, Andean mx (Alexander 5/31, Takeno JP 5/15) in SP 2354, Latin vocals, canned echo ID, fqy, guitar mx, flutes (D'Angelo PA 6/8, Clar NY 5/20)
- 6140D CANADA *China R Int* relay via Sackville in EG *0100, first 35 seconds of bcst in analog format with ID, then abruptly into DRM format w/nx re CH nationals killed in French airport roof collapse, item re first patients to receive experimental SARS vaccine (Brandi NJ 5/24)
- 6160 CANADA *CKZU* Vancouver, BC in EG 0857, relay of R Nederland's featire. CBC nx, good signal (Takeno JP 5/15) ED: Excellent DX in Japan considering CKZU's output is only 500 watts.
- 6170 BRAZIL *R Cultura* São Paulo in PT 0953, interview?, several ID's, nice signal (Takeno JP 5/15)
- 6180 BRAZIL *RN da Amazonia* Brasilia in PT 0759, many ID's, several consecutive jingles, mentions of location in Brazil, exc signal w/some fades, into mx 0804 (Montgomery PA 5/27)
- 6185 MEXICO *R Educacion* in SP 0125, nx? Headlines, ID's, slogans, fqy, pgm note, TC, XEPPM callsign (Clar NY 5/28) in SP 0644, fine collection of classical mx played continuously (Montgomery PA 5/9)
- 6210 ETHIOPIA *R Fana* Addis Ababa in Amheric? 0258, s/on w/chimes, clear ID's, brief nx 0300, former President Reagan's name recognized, local mx 0306, g, //6940 w/heavy QRM (Montgomery PA 6/7)
- 6250v EQUATORIAL GUINEA *RN* Malabo in SP/EG 2207-2304*, Afro/EG pop mx, tlk-over in SP, ID and closedown ancmts, poor signal especially audio (Barbour NH 6/7, D'Angelo PA 6/12, Takeno JP 6/4)
- 6350usb HAWAII *AFN* Pearl Harbor in EG 0834-0911, "Sports Overnight", PSA's in place of ads, AP Net nx 0900 followed by Car Talk feature, no ID's during breaks, f (D'Angelo PA 5/16)
- 65361 PERU *R La Poderosa* Huancabamba in SP 0115-0204*, OA folk mx, echo ancmts, tlks, ID, abrupt s/off, heard regularly lately, f-g (Alexander PA 5/8)
- 7110 ETHIOPIA *R Ethiopia* Addis Ababa domestic service in Amheric? *0259, opening w/xylophone-like IS, clear ID's, 3 gongs, into muffled tlk by YL, nx?, mx, QRM past 0330. //9704 (Berg MA 6/2)
- 7115 EGYPT *Egypt RTV Union* in AR 0058, ME mx, pips, IS, NA, nx?, fair w/poor audio (Clar NY 5/19)
- 7120 MADAGASCAR *R Netherlands* relay in DT 2140, rpt on the difficulty of identifying bodies from mass graves such as "ground zero" in NYC after 9/11 terrorist attack, clips in EG, ID's, f-g (Clar NY 5/14)
- 7125 RUSSIA *Russian Int'l Radio* via Armavir relay in RS 2347, RS pop/dance mx, voiceovers, nx clips w/soundbites, many ID's "Russkoye Mezhdunrodoynoye Radio", exc signal (Barbour NH 5/24)
- 7165 CYPRUS *BBC* relay Limassol in Pashto 0016, tlk, ID's, BBC theme, radio-drama, f (Clar NY 5/30)
- 7210 UNITED ARAB EMIRATES *Bible Voice BCN* relay via Al Dabbiya in EG 0050, "Right from the Heart" relig pgm, inspirational mx, into "Amazing Grace", ID, QTH, poor w/QRM (Clar NY 5/20)
- 7260 THAILAND *R Thailand* in VT/EG/Khmer 1105, nx of Bangkok in VT, ID, QTH info, IS, full EG ID, Khmer service ann'cd at 1113, repeated 3 times, into nx in Khmer, f (Barbour NH 6/7)
- 7300 VATICAN CITY *Vatican Radio* in VT 2345, brief clips of Pope saying Mass, QTH, s/off ancmt with "laudetur Jesus Christus", into carillon bells IS at 2356 s/off, f (Clar NY 5/16)
- 7370 PHILIPPINES *FEBC* Manila in Cantonese *2224-2258, IS loop, fanfare, ID's?, musical bits, long tlks, classical mx bridges, buried at 2258 by R Marti s/on on 7365, fair w/gradual f/o (Barbour NH 6/2)

- 7507usb **PUERTO RICO AFN** relay Sabana in EG 0013, live coverage GWBush speech abt June 30 transfer of power to Iraqis, good level but USB "hum" (Barbour NH 5/25)
- 9380 **CHINA CNR Beijing 5** in CH 1030, YL w/tlks b/w lite vocal mx, fair but choppy (Barbour NH 5/30)
- 9415 **CZECH REPUBLIC R Prague** in EG 2230, IS, ID, fqy, sked, website, econ nx, f (McGuire MD 6/4)
- 9430 **PHILIPPINES FEBC** Manila in CH 1007, long relig tlks, mx bit and ballads, choppy (Barbour 5/25)
- 9465 **GUAM KTWR** Agana in JP *1214, IS, ID, OM/YL banter, tlk over mx, poor/choppy (Barbour 5/9)
- 9520 **PHILIPPINES R Veritas Asia** in CH 1019, long cmntry by YL, ID?, poor/fluttery (Montgomery 5/29)
- 9540 **JAPAN R Japan** Tokyo in SP 1017, tlk, ID's, JP pop mx, promo, pgm note, fqy/sked, p (Clar NY 5/15)
- 9560 **GERMANY Gospel for Asia** via Wertachtel in Vern 2350, long relig tlk, ID's, QTH, f (Clar NY 5/9)
- 9580 **AUSTRALIA R Australia** in EG 1010, rpt on aid to South Pacific islands, g (Fraser ME 5/11)
- 9580 **GABON Africa #1** Moyabi in FR 2250, Afro pop mx, ID's/slogans, promo, pips, g (Clar NY 5/10)
- 9615 **GERMANY R Farda** via Biblis relay in Farsi 0050, ID's, internet address, pop/rock mx, p-f (Clar 6/3)
- 9615 **NEW ZEALAND RNZI** in EG 0621, YL talking on abt politics, cmntry on prisons, local nx, unusually fine reception w/some fading, 15db over S-9 (Montgomery PA 5/23, Berg MA 6/4)
- 9630 **BRAZIL R Aparecida** in PT 2350, folk or country-style mx, ID's, slogans, promos, p-f w/QRM, also //11855 but buried under co-channel Family Radio (Clar NY 5/12)
- 9650 **CANADA R Korea Int** relay in EG 1215, feature re Underwood family of missionaries (Fraser ME)
- 9675 **BRAZIL R Canção Nova** in PT 0035, ID's, slogans, jingle, theme mx, QTH, tlk, f-g (Clar NY 6/11)
- 9695 **JAPAN R Japan** Tokyo in EG 1019-1105, "Interview Corner", mx, nx cmntry, time pips 1100, into nx, fair signal but //6120 (Sackville relay) was booming in (D'Angelo PA 5/31)
- 9715 **PORTUGAL RDPJ** Lisbon in PT 0126-0200*, long tlks, mx interludes, Brazilian pop tunes prior to 0158 ID and s/off ancmts, orch NA, f-g, //13700, 15295, 15480 (D'Angelo PA 5/18)
- 9725 **RUSSIA V of Russia** via Armavir in RS *0100, IS, ID, rpt on Putin's trip to Mexico, g (McGuire 6/8)
- 9735 **ANTIGUA Deut Welle** relay in GM 0205, ID's, nx, rpt on the death of Reagan, g (McGuire MD 6/6)
- 9750 **MALAYSIA V of Malaysia** Kajang in IN 1010, ME-type pops/ballads, ID, pips, f (Barbour NH 5/10)
- 9770 **SRI LANKA SLBC** Colombo in EG 0054-0120, oldie mx sels, local time checks, promo/pgm notes, ID, nx, DJ talking abt E-mail from listeners (Barbour NH, Clar NY, D'Angelo PA, Brandi NJ)
- 9810 **IRAN VOIRI** in Bosnian? 2218, ID, tlk, Koranic chants, abrupt s/off 2223, f-g (Muehling NH 5/8)
- 9840 **ITALY RAI** Rome in IT 0007, interview re Italian troops in Iraq, mx, ID's, p-f (Clar NY 5/25)
- 9855 **IRAN VOIRI** Kamalabad in Bengali 0105, tlk, mx bridges, ID's, fqy ancmt, f/QRM (Clar NY 5/21)
- 9865 **GUAM KTWR** Agana in CH/EG, end of CH pgm 1015, into EG, ID, relig pgm, f (D'Angelo PA 5/25)
- 9870 **AUSTRIA ORF** Moosbrunn 0126, tlk re tax reform in Austria, ID, also heard another lang from the same station concurrently - apparent computer program problem, fair (Montgomery PA 5/8) in EG at 2312, rpt on Austria's relations with Iran and Libya, g (Fraser ME 5/16)
- 9870 **MONACO Trans World R** via Monte Carlo relay in EG 0729-0820*, story abt wicked priests, sons of Eli, "Amazing Grace", various relig features, //11865 (Brandi NJ, Barbour NH, D'Angelo PA)
- 9875 **LITHUANIA R Vilnius** in EG 2348, rpt on the opening of Lith-Belarus border checkpoints, ID's, into pop mx selections, f-g with QRN (Clar NY 6/9)
- 9885 **NEW ZEALAND RNZI** in EG 1008, rpt on genetically modified wheat, g (Fraser ME 5/11)
- 9935 **IRAN VOIRI** Sirjan in AR 0240, Qu'ran, into YL/DJ tlk w/mx underneath, f (Crisler-Smith MD 6/5)
- 9960 **ARMENIA V of Armenia** Yerevan in EG 1946, nx, light jazz, ID, E-mail QTH, f (D'Angelo PA 6/5)
- 10330 **INDIA AIR** Bangalore in HD 0042-0115, tlk, ID's b/w HD mx sels (Clar NY 5/31, Crisler-Smith 5/22)
- 11550 **TAIWAN R Taipei Int** in IN 1136, tlks, pgm of sfx and recorded phone messages, ballads b/w program segments, ancmts, mx, and IS at 1200* s/off, f, //11520 w/stronger signal (Barbour NH 5/21)
- 11590 **CHINA VO the Strait** Fuzhou in CH 1111, tlks, soundbites, ad blocks, ID 1130, f (Barbour NH 5/21)
- 11610 **IRAN VOIRI** Sirjan in SP 0039, nx w/ments Gen Meyer and Rumsfeld, ID 0046, into spooky Mideast mx followed by a cmntry on situation in Gaza, fair w/fading (Clar NY 5/14)
- 11635 **FRANCE V of Africa** (Libya) relay in EG 2035, 10 minutes of nx in EG, ID, exc (Alexander PA 5/31)
- 11650 **NORTHERN MARIANAS KFBS** Saipan in Mongolian 1125, tlks over mx, IS, dead air for 7 minutes until 1137 then mx loop instead of listed RS service, technical problem?, f-p (Barbour NH 6/7)
- 11705 **SRI LANKA VOA** relay in EG 0135, tlk on election results in India, panel discussion re effect of prisoner abuse scandal on war in Iraq and status of detainees in Cuba, ID's, promo (Clar NY 5/16)
- 11710 **ARGENTINA RAE** Buenos Aires in SP 0010, pgm of Argentine mx-ballads and tangos, ID's and noticias at 0015, fair w/QRN (Clar NY 5/12)
- 11710 **NORTH KOREA V of Korea** Kujang in EG *1000, time pips, IS, ID, orch NA, nx, message from new leader of Nepal to DPRK's "great leader", rpt on Asia/Pacific conference (D'Angelo PA, Clar NY)
- 11720 **MOROCCO VOA** relay in FR 2006, Britney Spears song, tlk by OM, more Top 40 mx, ID in EG and Yankee Doodle IS at 2029, into pgm in Hausa at 2030, f-g (D'Angelo PA 5/31)

- 11735 **NORTH KOREA V of Korea** Kujang in KR *1200, IS, ID's, NA, tlks by OM/YL (Barbour NH 6/7)
- 11740 **INDIA AIR Panaji** in Tamil 0015, tlk, ID's, subcont mx, report or cmntry, f-p w/QRN (Clar NY 5/24)
- 11750 **AUSTRALIA HCJB Australia** via Kununurra in EG 0812, relig pgm, ID "This is the Voice of the great South Land, Australia", mailing address, TC 0900, nx (Montgomery PA 5/23, Barbour NH)
- 11760 **CUBA R *Nac de Venezuela*** relay via Havana in SP 2310, ID's, anmts, pgm on education in Venezuela good reception (D'Angelo PA 5/31)
- 11765 **BRAZIL R *Tupi*** Curitiba in PT 2341, relig sermon, insp mx, fqy ancmt, ID's, //9565 (Clar NY 5/24)
- 11765 **ALASKA KNLS** Anchor Point in EG 0802, nx items, ID, gospel mx, brief lang lesson, "KNLS Music Library", difficult copy due to heavy co-channel R Tupi, Brazil (Montgomery PA, Barbour NH)
- 11780 **BRAZIL R *Nac da Amazonia*** Brasilia in PT 0002, ID's, slogans, musical ad/promo, pgm note and phone # given, good reception, //6180 also good (Clar NY 6/10)
- 11795 **PHILIPPINES R *Blagovest*** via R Veritas Asia in RS *1500-1532, ID, s/on ancmts, musical fanfare, dramatic orchestral mx, long relig tlks, fair (Barbour NH 5/9)
- 11800 **ITALY RAI** Rome in IT 2325, classical mx pgm, g, //9675 (Fraser ME 5/16)
- 11820 **POLAND R *Polonia*** Warsaw in EG *1159, IS, s/on anmts, ID, "Insight" feature, tlk of European Parliament and EU, mostly poor audio quality (Barbour NH 6/5)
- 118649v **ALBANIA *Trans World Radio*** relay in EG 0727, "Search for Truth", story about wicked priests, considerable frequency drift, //9870 (Brandi NJ 6/5)
- 11905 **SRI LANKA *SLBC*** Colombo in HD 0024, HD vocals, tlk, ID, 4+1 pips, poor signal (Clar NY 5/21)
- 11905 **UZBEKISTAN R *Tashkent*** in EG 2146, ID, feature on development of mining industry in Republic of Uzbekistan including gold mining, heavy QRM from Swiss Radio IS 2155 (Brandi NJ 5/30)
- 11955D **CANADA BBC** relay via Sackville in EG 0300, digital reception of "The World Today" nx pgm, ID "Distribution of BBC World Service in the US is by PRI, Public Radio International", abrupt s/off in mid-sentence at 0359 (Brandi NJ 5/26) ED: No clue as to strange ID.
- 11965 **ROMANIA RRI** Bucharest in SP 0040, tlk, ID's, fqy ancmt, RM folk/pop mx, //11935 (Clar NY 5/24)
- 11975 **MALI *China R Int*** relay via Bamako in CH 2356, tlk, ID's, sked, jingles, flutes, QTH, p-f (Clar 5/25)
- 11985 **TAIWAN R *Taipei Int*** in RS 1120, tlks, mx bridges, SE Asian mx, ID, more tlks, f (Barbour NH 6/1)
- 11990 **CANADA RCI** Sackville in SP *0000, noticias, tlk re landslides in Domin Republic, ID (Clar 5/26)
- 12015 **CHINA *China R Int*** in EG 2000, ID, nx re Putin, Beijing, and WTO, p (Barbour NH 5/26)
- 12045 **KAZAKHSTAN *TWR*** relay via Almaty in Vern 0036, relig tlk, insp mx bridge, ID (Clar NY 6/6)
- 12055 **VATICAN CITY *Vatican R*** in HD 0037, "Laudetur Jesus Christus", ID's, prayer, subcont mx bridge, tlk re Pope John Paul, repeated ments of "Holy Family" and clip of the Pope's sermon (Clar NY 5/18)
- 12105 **GREECE V of Greece** Kavala in EG 1830, TC, fqy, ID "R Filia" w/FM and MW fqys, nx re bomb attacks in Chechnya, wx rpt, feature on GK island of "Salamia", art calendar, pop mx (Clar NY 5/9)
- 12070 **RUSSIA V of Russia** Moscow in EG 2014, "Music and Musicians" feature, //15455 (Fraser ME 5/16)
- 12130 **GUAM *KTWR*** Agana in KH 1041, mx, tlks, E-mail addr, fanfare, ID 1100, f-p (Barbour NH 6/1)
- 12140 **SRI LANKA *VOA*** relay in Pashto, tlk, nx or current affairs, EG clips, ID's, promos, f (Clar NY 5/24)
- 13610 **SYRIA R *Damascus*** in AR/EG 2004-2035, YL in AR at t/in, mx, full EG ID, sked, fanfare, nx about Syria and Arab Region, Press Review, QRM from WEWN & AIR (Barbour NH 5/26, Takeno JP 6/4)
- 13610 **NORTHERN MARIANAS *VOA*** relay via Tinian in CH 1020, EG lesson focusing on use of such expressions as "hot air" and "cold shoulder", fair w/fading (Clar NY 6/9)
- 13650 **NORTH KOREA V of Korea** Kujang in EG 1000, nx, cmntry, weak, //9850 (Alexander PA 5/16)
- 13650 **GERMANY *Swiss R Int*** relay Juelich in FR 0743, ID, ment website which lists all rx being played on xmsn presently, in the past and the future, apparently FR xmsn replaces listed EG (Brandi NJ 6/5)
- 13840 **ITALY *IRRS*** Milano in EG 1030-1126+, continuous US/Euro pop/instrum'l mx, ID and Milano addr, into relig pgm in EG, good signal but deteriorated after 1100 from local QRN (Alexander PA 5/16)
- 15120 **PHILIPPINES R *Piipinas*** in Tagalog/EG 0255, ballads, tlk b/w songs, ID in EG, sked (Barbour 6/12)
- 15120 **NIGERIA V of Nigeria** Ikorodu in EG 1930, mx, "Afro-hilife makes you happy", g (Robinson TN 5/8) in EG 0625, nx, pgm preview, ID's, audio varied from clear to very poor (Alexander PA 5/8)
- 151499 **INDONESIA V of Indonesia** Jakarta in FR/EG 1954, YL in FR until 2001 when EG lang xmsn began, ID, nx to 2013, p-f (D'Angelo PA 5/26)
- 15150nf **CHINA *China R Int*** in EG 1843, CRI Monthly Forum, tlks and interviews on US policy in Iraq and possible effect on Bush presidency, pgm notes, ID's, slogans, jingles, into CH lesson, p (Clar NY 5/31)
- 15180 **NORTH KOREA V of Korea** Kujang in SP 0212, tlk, nx/polit cmntry, ID's, choral mx, f (Clar 5/22)
- 15345 **ARGENTINA R *Nacional*** in SP 2206, ID's, Lat Am mx selections, f (Barbour NH 5/30)
- 15360 **SINGAPORE BBC** relay in EG 0025, "World Today", request for listeners' favorite poems, pgm note for "World Business Report" ID, nx summary, p-f (Clar NY 5/26)
- 15365 **UNITED KINGDOM R *Korea*** relay via Rampisham in AR 1930, tlk, ID's over KR pops, f (Clar 5/22)


- 15375 **EGYPT R Cairo** in EG 2048-2122, nice Egyptian vcl sels, "Arabic by Radio" feature, mx, 5+1 pips, ID 2115, nx, p-f (D'Angelo PA 6/6, Takeno JP 6/4)
- 15395 **UNITED ARAB EMIRATES R Dubai** in AR 0210, electrifying recitation of the Holy Quran, "I was moved and I'm not a Muslim", exc reception (Crisler-Smith MD 6/5)
- 15410 **ANTIGUA Deut Welle** relay in GM *2200, IS, ID, rpt on Bush, ment Pakistan, g (McGuire MD 5/31)
- 15425 **AUSTRALIA HCJB Australia** in IN 1134, relig mx in lang, tlks, ment India, g (Barbour NH 6/5)
- 15435D **PORTUGAL Deut Welle** relay via Sines in GM 1857, digital DRM reception, tlk re Geo Bush's visit to Europe, IS, TC, nx, classical mx, "Music from the heart of Europe" to 1952, off at 1952 as scheduled, audio generally solid until 1938 when significant breaks occurred, spotty thereafter (Barndi NJ 6/4)
- 15470 **UNITED KINGDOM R Ndeke Luka** (UN sponsored) in FR 1832-1930*, ID 1900, nx, fgy s including FM/SW, hilife vocals, African nx, carrier cut at 1930, no closing anmts (D'Angelo PA, Barbour NH)
- 15485 **PAKISTAN R Pakistan** Islamabad in Urdu 0112-0246*, long tlks, Pakistani vocals, ID, pips, YL w/nx, s/off ancmts 0204, fanfare, flute mx until carrier cut, p-f (D'Angelo PA 6/12)
- 15495 **UNITED KINGDOM Leading the Way** relay via Rampisham in RS *1700-1730*, instrm'l mx, anmts in RS, preaching by OM w/EG translation by another OM, f-p w/QRM (D'Angelo PA 6/5)
- 15580 **UZBEKISTAN TWR** relay in HD 0125, tlk, insp.mx, ID, QTH, IS at 0129 s/off, f-p (Clar NY 5/19)
- 15585 **CHILE Voz Cristiana** Santiago in SP 0125, fulbol feature, ID's, slogans, jingles, f-g (Clar NY 5/22)
- 156276 **PAKISTAN RP** Islamabad in Tamil 0315, flute mx, Koran-like chants, tlks, mx, ID 0329, nx, cmntry, s/off ancmts, NA, off at 0344, fair sig best in AM synchro, //17485 poor (Barbour NH 6/12)
- 15630 **GREECE V of Greece** Avlis in EG 1623, interviews re GK culture and using it to inspire GK youth, GK ballads and pop mx b/w interviews, weak, //17705 Delano, CA relay (Barbour NH 5/22)
- 15640 **ISRAEL V of Israel** Tel Aviv in EG 1900, "Sharon is masterful politician, Knesset nx (Robinson TN)
- 15747v **SRI LANKA SLBC** in EG *1229, ID's, pop/funk mx, //9770, poor (Barbour NH 5/24, Clar NY 6/12)
- 15810 **DENMARK World Music R** in EG 2120-2238, pop/disco mx, "WMR" ID, jingle, weak sig with deep fades occasionally (Brandi NJ 5/26, Maroti NY 5/16, Barbour NH 5/24)
- 17655 **THAILAND BBC** relay in EG 0015, ID's, rpt on OPEC's plan to increase oil production (Clar NY 6/3)
- 17775 **UZBEKISTAN R Tashkent** in EG 1200, mailbag pgm, ment UZ president, nx, f-p (Montgomery 5/16)

Clandestine/Opposition Stations

- 9435 **GERMANY Democratic V of Burma** relay via Juelich in Burmese 2327, IS, ID "Democratic Myanmar a-Thani" at 2330, into nx?, xmsn wiped out FEBC while trying for their ID (Brandi NJ 5/30)
- 15565 **GERMANY V of Ethiopian Unity** relay via Juelich in Amheric *1830-1930*, opening w/distinctive melody that can also be hrd on their website, ID, fgy, prgmng mostly tlk, occasional singing or brief mx bridges, gave postal addresses in Los Angeles and the Netherlands at s/off, g (Berg MA 5/26)
- 21550 **UNITED ARAB EMIRATES R Unmee** (Ethiopia) via Al Dabbiya relay in EG 1119-1130*, chorus in Vernacular, soundbites from speech by Kofi Annan concerning genocide massacres in Rwanda in 1994, mentions of "UN Mission" and "International Service", brief mx, p-vp (Barbour NH 5/18) 

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Hello everyone. It's hard to believe that the year is half over. On the other hand it makes the Fest in 2005 that much closer! I thought I would take this opportunity to put a bug in everyone's ear about one of the most popular radio hobby books currently available. I recently ordered some books for the Company Store and was told that the number of copies of Fred Osterman's book *Shortwave Receivers, Past and Present* is very limited and when they're gone that's it. If you've got a copy of this classic, good for you. If you don't have a copy, you might want to think about getting one while you can. I currently have 4 copies in stock and don't think I'll be able to get any more. The Store is selling them for \$21.00 plus postage. When they're gone that's it for this one. Until next month...good listening. Mike 

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Joe Carr's Receiving Antenna Handbook A guide to high performance receiving antennas from longwave to HF and VHF.	\$19.95 +2.00 s/h US/CA +3.00 s/h world
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