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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, USB, LSB 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
#0398 AR5000A+3B	\$3179.00	\$2449.95
#3705 AR5000A+AB	3399.00	2499.95



SPECIFICATIONS

Frequency Range	10 kHz - 3000 MHz ¹
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 μV 1.5-30 MHz FM 12dB SINAD .3-2V 40-2600 MHz
Freq. Stability	±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 ±15% at 1 amp
Dimensions	8.5" x 5.5" x 10" 10 Lbs.

OPTIONS

#3800 AS5000 Antenna Switch 3/4	\$114.95
#4256 CR5000 Recording cable	29.95
#3801 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 TV5000 ANTSC 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 1259 memories are featured: 1000 regular, 25 scan edge and 200 auto-write scan. And this is ICOM's fastest scanning radio at 100 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 ±14 kHz to ±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 bell 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 μV 5-200 MHz ¹ CW 25 μV 5-200 MHz ¹ FM-N 32μV 5-200 MHz ² FM-W 1μV 75-200 MHz ² FM-W 2.2μV 200-340 MHz ²
Selectivity	AM, FM-N 12 kHz -6 dB FM-W >150 -5 dB SSB, CW >3 kHz -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) ¹ (10 dB S/N) ² (12 dB SINAD)

OPTIONS

#	Model	Item Description	Price
1445	BC-156	AC Rapid Charger	T.B.A.
3678	BP-206	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-96	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

\$7.95

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Reynoldsburg, OH 43068
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Prices and specs are subject to change. Prices shown are after milg's. coupons. Returns are subject to a 15% restock fee.

** U.S.A. orders under \$100 ship for \$4.95. Under \$500 ship for \$9.95. Except Alaska, Hawaii and Puerto Rico.

N4WA Notes

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

We are half way through the North American summer convention season. Three conventions down (the International Radio Club of America, the Worldwide TV FM DX Association, and the International DX Meeting in Mexico) and three more on the horizon (the 11th Annual Madison-Milwaukee Get-Together for DXers and Radio Enthusiasts, the National Radio Club's annual Labor Day weekend, and the Ontario DX Association's RadioFest 2004). It's still not too late to make one of these gatherings. The *Musings* column could use a report on these gatherings so if you attend, please consider a Musing. Of course, if you are doing some long term planning, you don't want to miss the club's annual Winter SWL Festival in March. Join **Rich Cuff**, **John Figliozzi** and a cast of thousands (okay, maybe a few hundred) at North America's premier radio listener's event in March 2005.

Don't forget that the Eleventh Annual Madison-Milwaukee Get-Together for DXers and Radio Enthusiasts is being held on Saturday, August 21, 2004, beginning at 1:00 PM at the Sheridan Park, Cudahy WI. As usual, there is no formal agenda, however, this is a chance to have fun, exchange ideas, make new friendships, and renew old ones with other like minded radio hobbyists. The host provides beverages and snacks and you are welcome to bring food or drink for your own consumption and to share. There will be a group dinner around 5:30 PM. After dinner, the gathering will continue at **Tim Noonan's** place until as late as people wish to stay. Check Tim's musing this month for every available detail imaginable. This is a great gathering that I was able to attend last year at the last minute. If you are in the region, like I was last year, you will want to attend this gathering.

Have you checked out the latest goodies **Mike Wolfson** carries at the *Company Store*? He 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 to offer is available by mail order. I added the latest mug and a sweatshirt to my collection in anticipation of the next DXpedition to French Creek. How can you listen without the proper equipment? The important details are in Mike's *Company Store* column. Order now! We will have a major announcement in next month's *Journal* about the availability of *Proceedings* reprints.

From **Sean D. Gilbert** the International Editor—*World Radio TV Handbook* (WRTH) comes word that another update is now available from the WRTH website: "In response to the very favourable comments of our last file, WRTH has been busy preparing the next update file and this is now available for download. This file contains the latest available SW, MW and LW broadcasting schedules for nearly 220 International, Foreign Service and Target broadcasters, including new items such as Internews Radio/Salaam Watandar. This file has been extensively revised and updated and can be downloaded from the following link: www.wrth.com/files/WRTHA04WEB.pdf or by visiting the WRTH website (www.wrth.com). I will be placing a copy of this new file on my personal website (which has information on dx-ing, Beacons, Morse code, 6m, propagation and more): <http://myweb.tiscali.co.uk/g4ucj>." Previous updates have been extremely useful as a reference and I am already wearing out the latest update. It is highly recommended!

Congratulations to Adventist World Radio's Global DX program for shortwave listeners

OUR MOTTO IS - "UNITY AND FRIENDSHIP"

and radio hobbyists after celebrating its 500th edition on Sunday, 1 August 2004. The program included an interview with International Shortwave expert, **Dr. Adrian Peterson**, as well as historic features on the beginnings of radio and the origins of *AWR*.

The Association of International Broadcasting (AIB) (P. O. Box 990, London SE3 9XL, United Kingdom) reports that on 2 June 2004 **Antoine Schwarz** took up his new position as Director General of Radio France Internationale. He succeeded **Jean-Paul Cluzel** who moved to become Director General of Radio France. Both terms are for five years. The AIB newsletter and its quarterly magazine, *The Channel*, now reach more than 15,000 readers in 120 countries worldwide.

The AIB is offering its new directory targeting people who work in broadcasting, or supply broadcasters with services. *The AIB Directory* includes extensive contact information for key personnel at domestic and international broadcasters around the world. Also, it contains information with full details of how to tune into the world's international radio broadcasters in English, French and German, or the leading international television news channels. *The AIB Directory* has become a valuable reference book both at home and on business trips worldwide. *The AIB Directory* is updated twice yearly, and is available on subscription so you are always up to date. Order today at the above address for £37.50 (around 56Euro/US\$67.00) per issue to have access to reliable contact data at broadcasters, suppliers, transmission companies, satellite operators and industry bodies in more than 90 countries.

Congratulations to our friends at the Danish Shortwave Listeners Club International (DSWCI) after issuing the 250th edition of the *DX Window*. Many years ago, Radio Denmark in the late sixties had a weekly program in its English Service, edited by the late **Christian Flagstad**, bringing DX-news from the DSWCI and called the *DX-Window*. From 1987 through 1994 the *DX-Window* was a printed newsletter for club members. On 27th February 1996 **Finn Krone** resumed publishing the *DX-Window*, but now distributed by e-mail.

Today it is edited by **Anker Petersen** who in July issued the jubilee E-mail issue no. 250. Once again, congratulations to our friends in Denmark!

From a DRM Consortium news release we learn that new National Association of Shortwave Broadcasters (NASB) test transmissions began on Saturday, 17 July 2004 at 1700-1730 UTC on 11900 kHz, via Radio Canada International from the Sackville, New Brunswick beamed to the Eastern U.S. and Canada. NASB will transmit the program Voice of the NASB program. The Voice of the NASB is a half-hour variety series jointly produced by various NASB members and associate members. It comprises documentaries, travel reports, mailbag programs, religious dramas, music, and station profiles. The NASB had been sending DRM transmissions to Europe since 2003 via the Rampisham, England, transmitter site of DRM member and NASB associate member VT Communications. These transmissions ended on 18 July 2004. "The NASB broadcasts are a great addition to the growing range of DRM content available in North America," says DRM Chairman Peter Senger. "We applaud NASB's participation, and we invite broadcasters from around the world to join in providing radio listeners with DRM's superb clarity and excellent reception." Are members hearing these or any other DRM transmissions? How about a mus-ing letting us know how DRM is impacting your shortwave listening?

The dog days of the summer DX season are upon us but there is still plenty of great listening action that can be heard on the shortwave bands. Stay on top of breaking shortwave news and information with the club's electronic *Flashsheet* such as Salaam Watandar news program targeting Afghanistan that broke about a month ago. 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.

Once again, I have a couple of wayward electronic *Flashsheet* participants that I need to find. Their e-mail addresses are not working, therefore, I am getting bounced messages. **Louis Crisler-Smith** and **Jim Renfrew**, please contact me with your new e-mail addresses so I can resume sending the electronic *Flashsheet* to you. Thanks!

Please remember to direct all communications about subscriptions, bulletin delivery issues, dining etiquette, 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!

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

FRENDX: Twenty Five Years Ago (August 1979)

Encouraged by member responses, Alan Mayer organized a SWBC DX Information Net for radio amateurs starting Sunday, August 19 on 21,365 kHz in the 15-meter band. In the Shortwave Center, John Creamer and James Young wrote about the "DX Shack." Malcolm Kaufman wrote about the Panasonic RF-2900 and Beverly Slomka wrote about her marriage of a shortwave listener to her scanner husband. Bill Smith reviewed the *Shortwave Propagation Handbook* co-authored by George Jacobs and Theodore Cohen. Over 45 people had already committed to attend the New England Area DXers Outing scheduled for Black Rock State Park in Watertown, CT on September 4th. Kap's Shrewsbury Sunday outing netted HAP another \$114 through a mini-auction. Dan Henderson's awards column noted awards to John Herkimer (European Continental DXpert, South American Continental DXpert, and DXer de Pacifica), Bill Whitacre (Master Indonesian DXer, and Soviet Sphere DXer), Kevin Mikell (South American Continental DXer and Maple Leaf DXer), Richard Pistek (North American Continental DXpert), Paul Buer (Asian Continental DXer), Al Sizer (North American Continental DXpert), Terry Klasik (European Continental DXer and All VOA DXer), Ron Howard (Maple Leaf DXer), Daniel Prisco (DX Centurion, Ecclesiastic DXer, and South American Continental DXer) and John Sgrulletta (Master Soviet Sphere DXer). Tom Gavaras wrote his final column as editor of *Log Report C* after 42 columns. Mike Agner's first *Antennas/Accessories* column appeared.

N44eb

Visit our club home page on the World Wide Web at <http://www.anarc.org/naswa/>

Calendar Of Events

- Aug 20 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.
- Aug 20 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/>
- 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.
- Sep 2-5 Convention.** The **National Radio Club** will hold its annual Labor Day weekend gathering in Batavia, NY on 2-5 September 2004. The Days Inn will be the location with rooms available for \$72.00 per night. Reservations direct at 585-343-1440. For more information contact co-host Scott Fybush at scott@fybush.com or 585-442-5411.
- Sep 11 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>>
- Sep 24-25 Convention.** The Ontario DX Association will hold **RadioFest 2004** celebrating its 30th anniversary on 24-25 September 2004 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. Weekend registration costs just \$10.00 CDN (\$7.00 US), which includes the Friday Wine & Cheese and the Saturday program (meals on you own). All meals are pay on your own. 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. You can also use PayPal on the club's web site at www.odxa.on.ca. Check the web site and the monthly bulletin Listening In for further updates. Happy 30th anniversary to our friends up north!
- 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!
- Jun 17-19, 2005 AGM and DX Camp.** The Danish Shortwave Club International will hold its **annual general meeting (AGM) and DX Camp** at the Scout Camp Vardeborg (Vejers Beach) on 17-19 June 2005. Further details will follow.

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).

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.

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

I've been getting some vintage radios in for repair that have shortwave on them. Most of my customers have no idea what those strange numbers on the dial mean. And why are their city names all over my Zenith dial? Well folks here's a news bulletin. The 20 and 30 somethings have never been exposed to shortwave. The cold war was over by the time they were earning a paycheck and shortwave radio was something their grandfather played with.

Here's where we come in. PROMOTE THE HOBBY. I've been able to turn my customers into shortwave listeners. I've been rigging small antenna wires on their sets and giving short little lessons on SW tuning. Presto: new SWL / DXer. My next step will be to make up a little booklet showing the benefits of being a NASWA member. Hopefully we'll see some new blood.

Here's some more promotional ideas. Get in touch with local boy scouts and girl scouts and give them a demo of shortwave. Contact various radio clubs around town and promote shortwave listening. (Antique radio, Ham and CB radio, Local schools, etc) With the world situation maybe a call to the local TV or Radio station may bring some results. You could demo how we get up to date radio news in this CNN world. A few years ago I had about 100 people at my church for a mission workers night. I set up a bunch of posters showing off broadcasters like HCJB and TWR. I also had my shortwave radio set up tuned into to some broadcasts. The guests were amazed that they were listening to such far away places.

Let's do a better job of promoting Shortwave Radio. It's really not that hard and the new younger listeners will be our future. As always promote NASWA as the club to belong to...Eric

Tim Noonan <DXing2@aol.com>, 8756 S Country Drive, Apt 102, Oak Creek WI 53154-7521 (414-762-2702: where there is an answering machine)

You are invited to the Eleventh Annual Madison-Milwaukee Get-Together for DXers and Radio Enthusiasts at the Sheridan Park, Cudahy WI on Saturday, August 21, 2004, beginning at 1 p.m. The street address of the park is 4800 S Lake Drive.

If you are traveling to the Milwaukee area by freeway, you need to reach the area where I-94 proceeds south from the East End of the east-west portion of the I-894 bypass. The park is located where Layton Avenue and Lake Drive meet. From the west, take I-894 east to the 27th Street exit (exit 9), and then proceed south to the next intersection, which is Layton, and turn left/east. From the south, take I-94 north to Layton Avenue (exit 317), and take it to the east. Drive east on Layton Avenue about 4-5 miles, passing the northern edge of Mitchell International Airport. Enter the park as you cross Lake Drive, and notice the statue of Patrick Cudahy just inside the park.

As you reach the statue of Mr. Cudahy, turn right and there is a parking lot on your left; there is another further along on the right. Please park only in the lots; we are not allowed to park on the drives. The shelter we have reserved has electrical outlets, but we are cautioned that they are all 20 amp circuits and can be easily overloaded. The shelter is located a short walk into the park to the northeast of the statue, and picnic tables are

provided. Fortunately for us, the rules state that "The use of radios is permitted in all picnic areas." We are not allowed to sell anything. Consumption of alcohol is permitted, and pets are not allowed. Freewill donations to offset the cost of renting the park shelter will be gratefully accepted.

There is no formal agenda at all. This is a chance to have fun, exchange ideas, make new friendships, and renew old ones. If you like, bring along radios, antennas, stickers, QSLs, photos, or any show-and-tell items. Be sure to bring your camera for our annual group photo. We will provide soda, beer, and snacks. You are welcome to bring food or drink for your own consumption and to share, but please feel no obligation. We plan to go out as a group for dinner around 5:30 PM. After dinner, everyone is invited to our apartment, where you are welcome to continue the gathering as late as people wish to stay.

Please be so kind as to respond to this open invitation, if you would like to attend, to allow us to anticipate how many people to expect. Please contact us, preferably more than a week before the event, using the most convenient method.

We hope to see you in August! 73, Tim

Bob Fraser, 255 Lincolnton Avenue, Belfast, ME 04915-7404

I just finished reading Adrian Peterson's most interesting article "The Oldest Radio Building in the World" in the July 2004, Journal. In it he mentions a later call, WSK, for Marconi's station at Babylon/Sagaponack, Long Island, New York, and adds that the original call is unknown. I wonder.

Sometime ago, a friend photocopied part of a bulletin, "Radio Stations of the United States" put out by the Bureau of Navigation, U.S. Department of Commerce, and dated July 1, 1916. All of the Marconi stations then in use were listed, including WSK, Sagaponack and two that are familiar to me, WSC, Siasconset (Nantucket), Mass.; and WCC, South Wellfleet (Cape Cod), Mass.

I know that the original calls of the latter two were SC (Siasconset) and CC (Wellfleet), the "W" prefix was added in 1911. I feel very strongly that the original call of Sagaponack was SK.

Mr. Peterson claims WSK's building is the oldest radio station in the world but, again, I wonder.

Radio historian, Alice Brannigan, had an article in the November, 1986 Popular Communications called "Radio in Days Long Past" which has quite a history of SC, Siasconset. Unfortunately, she does not say when the stations went on the air but it was claimed to be the first U.S. wireless telegraph station to contact ships at sea and helped greatly in the rescue of passengers of the White Star Liner Republic when she collided with the Italian Steamer Florida off Nantucket and sank in 1909. The Republic's radio operator, Jack Binns, became quite famous for his work aboard the sinking ship.

Ms. Brannigan has two small photos of SC in this article and a larger better one on a later article, "Daze of Future past" in the December, 1999 PopCom.

In the first article, she adds that station SC became MSC when Marconi took over and later WSC, no dates however. She does add in the 1989 article that the white wooden cottage of SC still stands on Nantucket Island and has a wood plaque of identification. Ms. Brannigan added that few people in the neighborhood realized the historic building was in their midst. I wonder what's its status today?

73, Bob

Stephen Price <vinyltocdr@aol.com>, Virginia

Since I was 10 years old, I have always made time to DX. Whether it was a few minutes a day, a few hours a day or ALL day as a teenager in the 1980's, it was my thing to do. These days, despite home ownership, a professional career, and life in general, I still manage to work in a few good sporadic hours of DX'ing here and there. However, there is one thing that has seriously dampened my interest in the hobby--the sudden trend of high power relay stations now broadcasting what was once some nice station logs. For example, Radio Jamahirya was always a neat and interesting station to tune into. Along with it, there was something very romantic about knowing that the signal I was hearing was actually coming from a transmitter in the hot, arid Sahara Desert. No more, France took care of that. I have not tuned in since. This whole high-power relay thing has certainly removed the romantic idea of hearing and knowing that a particular distinct signal coming through your radio is actually coming from an antenna tower in the country you are hearing. For me, that was 85% of the fun of shortwave listening and DX'ing. I thoroughly enjoyed hearing a station, seeing the meter bobble, and knowing that the signal is from the country and broadcast of origin.

I can certainly understand why a lot of broadcasters are going this route. Their transmission is getting out better and the relay stations are pulling in some extra dough. Anymore, it seems like everybody is relaying everybody else. When I tune into a station I now have to wonder where it is coming from and it has dampened my interest. Last night, my wife asked me if I heard anything good after I came upstairs from my radio room. My reply was simple. "Sure...Radio Nacional de Venezuela...but not really." The definitive phrase that fits here for me is: "It is like kissing your sister." Who is next? Radio Kiribati via Radio Australia?

Stephen

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

This month's DX activity was slow mainly thanks to a seemingly never-ending parade of thunderstorms that rolled through Pennsylvania in late June/early July. Later in July, we had a wet day to end all wet days. Depending upon where you lived in the county, rainfall accumulations were between 4.5 inches and 6.5 inches. These are significant amounts of water. It seemed like my antennas were disconnected from the receivers more than they were connected. At one point I sat down behind the dials to listen and realized I wasn't connected. The storms had the unfortunate effect of taking me out of my listening routine for a brief period.

I'm happy with this month's collection of verifications reported to Sam Barto and the QSL Report column. The China Tibet People's Broadcasting Company verification was an interesting one after a close to seven-month wait. The descriptive language used by Radio Rhino International-Africa via Jülich, Germany was reminiscent of great radio station phrases that were quite common during the cold war days. The Radio Napa verification ended a multiyear quest to verify the Christmas 1998 special via Merlin. Anyone remember that special transmission? It took a long time but the mission is over. All replies from India are appreciated so All India Radio - Bangalore is no exception to the rule. Finally, what would a month be without a couple of pirate QSLs? Interesting to note that only one of the seven verifications I reported this month was received electronically. The trend toward electronic replies had been stronger in recent months.

73, Rich

Easy Listening

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Getting different news perspectives during Presidential election season

Perhaps I'm just a cynic, but over the years, once the USA Presidential campaign season kicks in with the party conventions, I listen and watch a lot less domestic news and news analysis programs than during the rest of the year. Why? Because I tire very quickly of the grandstanding and speechifying and the jockeying for air time between July and, say, late October. Campaigns degenerate into mudslinging fests and the politicians wind up emphasizing negatives instead of focusing on issues and action plans.

Thankfully, most international broadcasters don't follow the US Presidential campaigns in such excruciating detail, and actually offer a level of insight and analysis on the USA political process that most domestic news sources miss.

Here are some suggestions for non-domestic, internationally oriented news and analysis programs you might wish to sample:

BBC World Service

Daily, 1200 and Sundays-Fridays, 2000 UT, and also on-demand at the World Service website, *Newshour* is still my personal favorite of all the BBC news programs, because *Newshour* tends to dig below the surface and analyze stories in greater detail than simply reporting what happened and where. Frustratingly, the 2000 UT edition goes out when there are few shortwave frequencies propagating to the USA. A handful of public radio stations pick up the afternoon edition live, and this edition is also available via live and on-demand webcast.

Daily, 2200 and 0200 UT on shortwave, 0430-0700 on many of the US public radio stations that air the **BBC World Service**

overnight, and also on-demand, *The World Today* is designed as a breakfast news program even though this isn't the breakfast hour in the USA. It's a good way to get caught up on what's going on around the world; the program seems to be formatted a bit tighter than *Newshour*, which makes it a bit more predictable.

Weekdays, 0900 UT, *World Update* is an hour-long news and analysis program for USA consumption. Since the program targets the USA audience, you might not be able to avoid campaign coverage as easily here as you might on the other programs.

Weekdays, 1600 UT, *Europe Today* focuses on current affairs of interest to Europeans, so again it's a good way to listen to news that might not make it to the US airwaves.

Australia

Daily, 2100 and 2200 and on-demand, **AM** is the Australian ABC's morning news program airing on the domestic **Radio National** service and also **Radio Australia**. Listeners in North America will have to rely on webcasts in most instances for this one. The Australian perspective on world affairs tends to have a Pacific / Asian bent, which isn't such a bad thing when your goal is to avoid Presidential campaign coverage. You'll also get a fair amount of domestic current affairs, which can be an interesting way to see what troubles Australians are wrestling with on a day-to-day basis.

Weekdays, 0200 and on-demand, *The World Today* is a noontime current affairs program also airing on **Radio National** and **Radio Australia**. This should fare better than **AM** on shortwave here in Eastern North America, at least for another two months.

Weekdays, 0800 and on-demand, **PM** is the evening news / current affairs program from Radio National and Radio Australia.

Airs one hour earlier on Radio National, available via webcast.

Canada

Daily, 1900, 2200 and 0000 on **Radio Canada International** shortwave targeting North America, plus 2100–0130 for the first 30 minutes of each hour on **CBC Radio One** webcasts, it's *The World At Six* and, on weekends, *The World This Weekend*, an evening news roundup produced for a domestic audience by the CBC. Much like the Radio National programming mentioned above, you'll get a mix of domestic and international news, but definitely with a different viewpoint than you'll get from the USA. Also available on-demand from the domestic CBC website, <http://cbc.ca>.

Germany

Hourly, weekdays 0700–2330 (until :30 past each hour); and Tuesdays–Saturdays 0000–0030 and 0100–0400 continuously, *Newslink* is a long-standing news magazine from **Deutsche Welle**. Of course, most of these editions aren't easily heard via shortwave in the USA. That's too bad—*Newslink* reflects German attitudes which have been very skeptical of USA motivations in recent years, particularly in connection with last year's Gulf War. The program also airs in the fourth hour of the **CBC Overnight** service airing on domestic **CBC Radio One** stations and webcasts.

Netherlands

Weekdays, 1100 and Tuesdays–Saturdays, 0100 and 0400, plus numerous additional live webcasts and on-demand, *Newsline* has long been regarded as one of the best news magazine programs on radio. *Newsline* covers fewer stories in each edition than comparable current affairs program, but the program covers these stories in greater depth.

New Zealand

Weekdays, 0500 and 0700, *Checkpoint* is a late afternoon news and current affairs program targeting a domestic audience, but with international coverage as well. Should be audible on **Radio New Zealand International** via shortwave in North

America without too much trouble. Other interesting news-oriented programs from RNZI include *Midday Report*, weekdays at 0000, and *Late Edition* at 1000 and 1200. All of these are also available on-demand from the domestic **Radio National** website, <http://www.rnz.co.nz/>.

Hope you enjoy these suggestions as a refuge from the politics-heavy coverage we're in for from the USA's domestic media.

Radio Slovakia International survives through 2004

For once, it appears listener outcries have helped stave off a shortwave broadcaster's extinction. **Radio Slovakia International** announced that it has secured funding for the balance of the year, and continues to look for funding sources for 2005 and beyond. Thanks to Andy Sennitt (via his Radio Netherlands weblog) and Bill Bergadano (via Glenn Hauser's *DX Listening Digest*) for the updates. Let's keep the pressure on RSI—continue to encourage them to find long-term funding solutions!

Kol Israel to change broadcast times

The English language programming from **Kol Israel** is moving to a new domestic home, and this will result in some changes in shortwave air times (but not frequencies) as of August 1st. The new shortwave times are 0330, 0930, and 1730 UTC, for 15-minute daily broadcasts; the 1900 25-minute broadcast remains the same. Thanks to Doni Rosenzweig (via Glenn Hauser / DXLD) for this update.

The Middle East will likely continue to be a region in flux, so you might want to keep **Kol Israel** as a priority station. **Kol Israel** programming is archived for a week at the World Radio Network website, <http://www.wrn.org>. Click on "Listeners", then "Stations" to navigate to the **Kol Israel** broadcast.

Swiss Radio International: One last hurrah

As reported a few months back, **Swiss Radio International** is ending its long and illustrious history of shortwave broadcasting this October; regular English language programming has already ended. However, SRI is producing a special 12-part series of programming that will look at key events that have shaped Switzerland as a country, as well as SRI, over the past 70 years. The series is called *Assignment Switzerland*, and will profile personalities, politics, science and technology. The final program in the series will take a look at how the Swiss perception of Switzerland has changed over the years.

This series of programs will begin August 1st, and a new program will air each week (although the first four were already available online as of July 30th). I am not sure they'll be on shortwave, but you can check 9885 kHz (from Sottens) and 11905 kHz (from French Guiana) at 2330—that's when SRI's English language program was scheduled. Visit the Swissinfo website, <http://www.swissinfo.org>, click on "English", then "Multimedia", then "Assignment Switzerland".

I've started listening to them online, they're good listening.

BBC World Service highlights

Mondays, 1406, Tuesdays 0006, and Sundays 2306, beginning August 2nd: *Pills, Patients and Profits* is a four-part series which lifts the lid on the most profitable and powerful business in the world, the pharmaceutical industry. From the big chiefs and their friends in the White House to the powerless victims of deadly diseases in countries where treatment is an unaffordable dream, the programs investigate the politics of drug development and delivery. The four editions will also be available on-demand in the *Documentary Archive* section of the World Service website following their initial airing.

Tuesdays 1406 and Wednesdays 0006, beginning August 3rd: *Masterpiece* offers a three-part series entitled *Extreme Architecture*. When architects design places for us to work, live, and play in, it's a way to make real our dreams of space in a particular place. Some dreams and their resulting constructions have always pushed the boundaries—so our landscapes are dotted with examples of Extreme Architecture. In this special three-part discussion series, BBC World Service arts correspondent Lawrence Pollard opens doors to hear from architects and architectural thinkers about the inspiration behind extreme buildings, and from their inhabitants about the impact of living and working in them.

Wednesdays, 1406, Thursdays 0006, and Sundays 1006 and 1506, beginning August 18th: *Hidden Aid* is a two-part series about the world's biggest source of aid, not the funds that flow to poorer countries from governments, international organizations or aid agencies, but the money that's sent back to their families by migrant workers on a weekly or monthly basis. The latest research suggests that around \$72 billion a year is being channeled from rich countries in the industrialized world to the poorer, less developed countries in the form of remittances sent home by workers.

Wednesdays 1506, Thursdays 0106, beginning August 18th: *Discovery* features a four-part series entitled *Restoration Science*, which looks at the technologies behind the restoration of buildings, art, paper, and technologies. The first program looks at the *Cutty Sark*, one of the best-known of the world's great ships. Built in the 1860s, it was originally a tea clipper that travelled from China to Europe. After some 50 years as a tourist destination the *Cutty Sark* is now in great need of considerable conservation work, particularly to stop the deterioration of the ironwork. The trust that looks after the ship is deciding how to go about this conservation, but first it has to establish exactly what it wants to preserve. Is it trying to restore the ship to its original glory, as a monument to the great days of sail? Or should it try to represent all aspects of the ship's life?

Thursdays 1406, Fridays 0006, and Saturdays 1006, beginning August 19th: **The Poor Wars** is a two-week substitute for **Assignment**, the weekly documentary series. In this special, the program explores how the interests of the developed and the developing world differ. Does the rich world help developing countries, or does it simply rip them off, using its power to exploit, to fix the rules of world trade, to enforce unreasonable lending? The BBC's economics editor Evan Davis looks for evidence on the ground of the effect of programs to help poor countries, and at the effects of trading arrangements between rich and poor.

Thursdays 1506 and Fridays 0106 beginning August 19th: **One Planet: Nuclear Knowhow** is a four-part series on the risks and benefits of nuclear science. For example, the pressure to make more use of nuclear tools is intense. There is an explosion of cancer cases in the developing world, of which half could be cured with timely radiation therapy. Accuracy and safety are essential to protect both the patient and the environment. Radiation may well cure but it can also kill. How well is the cash-strapped health service of Kenya avoiding a catastrophic accidental leak of radiation such as the tragic incident that poisoned all who were exposed in Goiana in Brazil in 1987?

Mondays 1432 and Tuesdays 0032, beginning August 23rd: **Guy Barker's World Café** returns for a second series, featuring his International Septet and recorded in front of a live audience at a venue in the heart of London. Barker combines his stage repartee and wit with interviews with the guests about their cultures and instruments, and audience participation is very much part of the evening. In each program Barker and his band perform, exclusively for BBC World

Service, newly-composed album tracks before their release.

Mondays 1532, Tuesdays 0132 and Sundays 2332, beginning August 30th: **Inspiration** begins a six-week run of the light-hearted science quiz about inventions and innovations. Join in the fun and test your brains!

Thursdays 1406, Fridays 0006, and Saturdays 1006, beginning September 2nd: **Dirty Wars** looks at the attempts by the United Nations and its agencies to stop the spread of the world's deadliest technologies—those used to make weapons of mass destruction. But a BBC investigation reveals a system in crisis—and exposes a network of shadowy scientists and companies involved in the deadliest trade of all.

Non-Shortwave pick: Radio TV Hong Kong

For a different take on East Asia from what you can get via CRI, Radio Japan, or Radio Taipei International, consider the webcasts available from **Radio TV Hong Kong**. A daily morning current affairs program, **Hong Kong Today**, is archived for on-demand listening; recently, the Real Audio version of the on-demand program stream had less rebuffering than the Windows Media stream. **Hong Kong Today** airs live at 2230 UTC Sundays–Thursdays, and extensive on-demand archives exist. Visit <http://www.rthk.org.hk/rthk/news/englishnews/> then "Hong Kong Today". You can then click on the date desired in the left column of the web page, then click on the Real Audio icon.

That's all for August—see you in September!

73 DE 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/>.



SWL Program Guide

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SW Program Listings—A04

Abbreviations: S=Sunday, M=Monday, T=Tuesday, W=Wednesday, H=Thursday, F=Friday, A=Saturday, D=Daily.

Listings for U.S.-based private sw stations are limited to fare that departs from their usual religious and political programming.

Days, times and programs subject to change.

Use Mark Fine's time and frequency listing in May's Journal for where to tune.

Morning/Early Afternoon Listening

All India Radio

1745 *M* Light Music, *T* Karnatak Instrumental Music, *W* Folk Songs, *H-S* Devotional Music. 1800 *D* News; 1810 *D* Commentary; 1815 *W* Instrumental Music—Old Masters, *H-T* Hindustani Classical Vocal Music; 1830 *S* Sports Roundup (1st wk)/Feature (2nd)/Film Story (3rd)/Discussion (4th), *M* Faithfully Yours (letters), *T* Cultural Talk, *W* Book Review (1st)/Window on Science (2nd/4th)/Times & Lives (biography-3rd), *H* General Talk, *F* Focus (magazine-1st)/Horizon (literature-2nd/4th)/Music (3rd), *A* For Youth (1st)/Indian Classics (books-2nd)/From the Archives (3rd)/Quiz Time (4th); 1840 *M* DXers Corner (2nd/4th), *T* Film Songs of Yesteryears, *W* Hits from Films, *H* Light Karnatak Music, *F* Light Instrumental Music; 1850 *M* Film Songs, *F* Light Music. 1900 *D* News; 1905 *D* Press Review; 1910 *S* Women's World, *M/W/F* Radio Newsreel, *T* Of Persons, Places & Things (1st/3rd wk)/Our Guest (interviews-2nd/4th), *H* Panorama of Progress, *A* Mainly for Tourists (1st/3rd)/Indian Cinema (2nd)/On the Export Front (4th); 1920 *S/M/W/F* Film Songs, *T* Light Classical Music, *H* Light Instrumental

Music, *A* Karnatak Classical Music; 1930 *D* Commentary; 1935 *S/H/F* Film Songs, *M* Karnatak Vocal Music, *T* Folk Songs, *W/A* Light Music.

2045 *D* Press Review; 2050 *S/T* Instrumental Music, *M/F* Folk Songs, *W* Light Music, *H* Classical Indian Vocal Music, *A* Regional Indian Devotional Music.

BBC World Service (am)

1000 *S/A* News, *M-F* World Briefing; 1006 *S* From Our Own Correspondent, *A* Documentary; 1032 *S* In Praise of God (worship service), *M-F* World Business Report, *A* World Football; 1045 *M-F* Sports Roundup. 1100 *D* World Briefing; 1105 *M-F* Caribbean Morning Report; 1110 *M-F* Sports Caribbean; 1115 *M-F* Caribbean Magazine; 1120 *D* British News; 1132 *S* Letter (from a global correspondent), *M* Instant Guide (background), *TWFA* Analysis, *H* From Our Own Correspondent; 1145 *A-H* Sports Roundup, *F* Football Extra. 1200 *D* Newshour; 1205 *M-F* Caribbean Business; 1210 *M-F* Caribbean Morning Report 2nd Edition; 1220 *M-F* Caribbean Magazine; 1230 *M-F* Newshour (cont'd.). 1300 *D* News; 1306 *S* From Our Own Correspondent (background), *M-F* Outlook (magazine), *A* Pick of the World (BBC's best); 1332 *S* In Praise of God; 1345 *M-F* Off the Shelf (book readings), *A* Write On (letters). 1400 *D* News; 1406 *S* Talking Point (live phone-in), *M/W* Documentaries, *T* Masterpiece (arts ideas), *H* Assignment, *F* Sports International, *A* Sportsworld (live action); 1432 *M* Music Feature, *T* White Label (new music), *W* Charlie Gillett (world music), *H* Music Biz, *F* John Peel (eclectic). 1500 *D* News; 1506 *S* Documentary, *M* Health Matters, *T* Go Digital, *W* Discovery (science), *H* One Planet (ecology), *F* Science in Action, *A* Sportsworld (live action from 1406); 1532 *S* In Praise of God (worship service), *M* Quiz [or] panel game, *T* Music Review, *W/F* Westway (drama serial), *H* The Word (writers &

writing) [exc. last *H*, World Book Club (discussion)]; 1545 *W* Heart & Soul (beliefs & values), *F* What's the Problem? (advice). 1600 *S/A* News, *M-F* Europe Today; 1606 *S* Sunday Sportsworld, *A* Sportsworld (live action from 1406).

BBC World Service (eaf) — 21470, 17830

1700 *D* News; 1706 *D* Focus on Africa; 1745 *S-H* Sports Roundup, *F* Football Extra. 1800 *S/A* News, *M-F* World Briefing; 1806 *S* From Our Own Correspondent, *A* The Ticket (global arts revue); 1820 *M-F* British News; 1832 *S* Global Business (trends), *M/F* Fast Track (African sport), *T* Postmark Africa (answers), *W* Africa Live (phone-in), *H* Artbeat. 1900 *D* News; 1901 *A* In Concert; 1906 *S* Top of the Pops (British music charts), *M-F* Focus on Africa; 1932 *M-F* World Business Report; 1945 *MTHF* Analysis, *W* From Our Own Correspondent. 2000 *D* Newshour.

BBC World Service (me) — 15565

1700 *D* World Briefing; 1720 *D* British News; 1732 *S* Instant Guide (backrounder), *M-F* World Business Report, *A* The Interview (trends); 1745 *S-H* Sports Roundup, *F* Football Extra. 1800 *D* News; 1806 *S* Pick of the World (BBC's best), *M/W* Documentaries, *T* Masterpiece (cultural ideas), *H* Assignment (one topic), *F* Sports International (magazine); 1832 *M* Music Feature, *T* White Label (new music releases), *W* Charlie Gillett (world music), *H* The Music Biz, *F* John Peel (electic music); 1845 *S* Write On (letters).

BBC World Service (waf) — 15400, 12095

1900 *S/A* World Briefing, *M-F* News; 1906 *M-F* Focus on Africa; 1920 *S/A* Sports Roundup; 1932 *S* The Interview (trends), *M-F* World Business Report, *A* Voices from the Market (drama series); 1945 *MTHF* Analysis, *W* From Our Own Correspondent. 2000 *D* Newshour.

China Radio International

1000 *D* Real Time Beijing (world/national/city news, business, sports, press, sci-tech,

culture, show-biz, music, features); 1115 *S* China Beat (popular music), *A* China Roots (traditional music).

1100-1200 (as 1000-1100).

1300 *D* News & Reports; 1310 *S* Report on Developing Countries; 1315 *A* Cutting Edge (sci/tech); 1320 *S* CRI Roundup; 1330 *S* In the Spotlight (cultural magazine), *M* People in the Know (China's leading personalities), *T* Biz China, *W* China Horizons (China outside Beijing), *H* Voices from Other Lands, *F* Life in China, *A* Listeners' Garden.

1400-1500 (as 1300-1400).

1500-1600 (as 1300-1400).

Deutsche Welle

1600 *D* News; 1605 *S* Mailbag, *M-F* Newslink Asia, *A* Hard to Beat (sport); 1615 *A* German by Radio; 1630 *M* Insight (international issues), *T* World in Progress (development), *W* Money Talks (business), *H* Living Planet (environment), *F* Asia This Week, *A* Cool! (youth culture); 1645 *M* Europe in Capitals (city profile).

1900 News; 1905 *S* Hard to Beat (sport), *M-F* Newslink Africa, *A* Religion & Society; 1915 *S* Inspired Minds, *A* German by Radio; 1930 *S* Hits in Germany [or] Melody Time, *M* A World of Music, *T* Arts on the Air, *W* Living in Germany, *H* Cool (youth culture), *F* Focus on Folk, *A* Africa This Week; 1945 *W* Europe in Capitals.

2000 *D* News; 2005 *S* Mailbag, *M-F* Newslink Africa, *A* Inside Europe; 2030 *M* Insight (international issues), *T* World in Progress (development), *W* Money Talks (business), *H* Living Planet (environment), *F* Spectrum (sci-tech); 2045 *M* Business German.

HCJB Ecuador

1100 *S* Let My People Think, *M-F* Insight for Living, *A* Down Gilead Lane; 1130 *S* Renewing Your Mind, *M-F* Family Life Today, *A* Adventures in Odyssey. 1200 *S* Moody Pres-

ents, *M-F Morning in the Mountains, A Hour of Decision; 1215 M-F Proclaim; 1230 S The Living Word, M-F Renewing Your Mind, A DX Partyline.*

Radio Australia

1000 D News; 1005 S Keys to Music (enjoying the classics), *M-F Asia Pacific* (regional current affairs), *A Inside Out* (Pacific views); **1030 M Health Report, T Law Report, W Religion Report, H Media Report, F The Sports Factor; 1045 A Lingua Franca** (about language). **1100 D News; 1105 S Sunday Profile** (current events), *M-A Asia Pacific* (regional current affairs); **1130 S Speaking Out** (Aboriginal affairs), *M Innovations, T Earthbeat, W Rural Reporter, H Educational series, F The Chat Room* (interviews), *A All in the Mind* (the brain). **1200 D News; 1205 S The Spirit of Things** (spiritual matters), *M-H Late Night Live* (discussion & interviews), *F Sound Quality* (innovative music), *A The Music Show; 1255 S The Pulse* (Aussie music now). **1300 D News; 1305 S Encounter** (religion in Australia), *M-F The Planet* (diverse music from around the world), *A The Music Show* (cont'd); **1355 S Perspective** (commentary). **1400 D News; 1405 S The Science Show, M-F PM** (domestic early evening newscast), *A Background Briefing* (documentaries); **1455 S Business Weekend, M-F Perspective** (informed opinion), *A Correspondent's Notebook. 1500 D News; 1505 S The National Interest, M-F Asia Pacific* (regional current affairs), *A Educational series; 1530 M Health Report, T Law Report, W Religion Report, H Media Report, F The Sports Factor; 1555 S Perspective* (informed opinion), *A Business Weekend. 1600 D News; 1605 S Books & Writing, M-F Margaret Throsby* (interview/music), *A Hindsight* (social history); **1635 S Book Talk. 1700 D News; 1705 S Sound Quality** (innovative music), *M-F Australia Talks Back* (phone-in), *A The Spirit of Things* (spiritual matters). **1800 D News; 1805 S-H Pacific Beat** (Pacific islands magazine), *F Pacific Review, A Best of 'Late Night Live'* (interviews); **1830 F Country Breakfast** (rural life); **1835 M-F On the Mat** (regional issues). **1900 D News; 1905 F Rural Reporter, A Australia All Over; 1910 S-H Pacific Beat** (regional magazine w/Sport

@ 1929); **1930 F Australian Country Style** (music); **1935 M-F The Best of 'Breakfast'** (interviews). **2000 D News; 2005 F Pacific Review, A Australia All Over; 2010 S-H Pacific Beat** (regional magazine w/Sport @2029), **2030 F The Buzz** (technology).

Radio Austria International

1505 S/A Week in Review; 1510 M-F Report from Austria; 1525 S/A Listener Letters.

1535 S/A Week in Review; 1540 M-F Report from Austria; 1555 S/A Listener Letters.

Radio Canada International

1200 M-F News; 1205 M-F The Current (current affairs-joined in progress). **1300 D News; 1305 S The Sunday Edition, M-F Sounds Like Canada** (Canadian magazine); *A The House* (Canadian politics). **1400 D News; 1405 S The Sunday Edition** (cont'd.), *M-F Sounds Like Canada* (cont'd., including **1430 F C'est La Vie** (life in French Canada), **1445 T-F Out Front** (first person views of life), *A Vinyl Cafe. 1500 D News; 1505 S The Sunday Edition* (cont'd.), *A Quirks & Quarks* (science).

1900 D News; 1905 S Writers & Co., M-F The Roundup (conversations/variety), *A Definitely Not the Opera* (popular culture). **2000 D News; 2005 S Cross Country Check-up** (phone-in), *M-F The Roundup* (cont'd), *A Definitely Not the Opera* (cont'd.)

[Note: Some regular programs may be shortened or replaced by temporary summer series.]

Radio Japan—NHK World

1000 D News; 1010 S Weekend Japanology, M-F Songs for Everyone, A Hello from Tokyo (listener contact); **0015 T-A 44 Minutes** (magazine); **0054 M Japan Music Scene.**

1100 D News; 1110 S Hello from Tokyo (listener contact), *M-F Songs for Everyone, A Pop Joins the World; 1115 M-F Asian Top News*

(headlines from region's radio); **1125 M** Japan Musicscape, *T* Basic Japanese for You, *W* Japan Music Travelogue, *H* Brush Up Your Japanese, *F* Music Beat.

1500-1600 (as 1100-1200).

1700 D News; **1710 S** Pop Joins the World, *M-F* Songs for Everyone, *A* Hello from Tokyo (listener contact); **1715 M-F** 44 Minutes (feature magazine).

Radio Korea International

1200 D News; **1210 S** Korean Pop Interactive (requests), *M-F* News Commentary, *A* Worldwide Friendship (letters, DX news); **1215 M-F** Seoul Calling (magazine).

1230 S Korean Pop Interactive (cont'd), *M-F* Seoul Calling (cont'd), *A* Worldwide Friendship (cont'd); **1245 M** Korea Today & Tomorrow (peninsula issues), *T* Korean Kaleidoscope (Korean society), *W* Wonderful Korea (tourism), *H* Seoul Report (interviews).

Radio Netherlands

1100 S Wide Angle, *M-F* Newline, *A* Europe Unzipped; *S* The Week Ahead, *A* Insight (comment); **1130 S** Vox Humana (culture), *M* Research File (science) *T* EuroQuest (Europe in context), *W* Weekly Documentary, *H* Dutch Horizons, *F* The Good Life (development issues), *A* Amsterdam Forum (conversations).

1900 S Documentary, *A* Vox Humana (culture); **1930 S** Wide Angle (in-depth), *A* Europe Unzipped; **1950 S** The Week Ahead (on RN), *A* Insight (commentary). **2000 S** Vox Humana (culture), *A* Amsterdam Forum (conversations); **2030 S** Wide Angle (in-depth), *A* Europe Unzipped; **2050 S** The Week Ahead (on RN), *A* Insight (commentary).

Radio New Zealand International

1000 D News; **1012 S** Mediawatch, *M-F* Late Edition (the day's news), *A* Deep Purple (relaxing music/nostalgia); **1035 S** Sunday Supplement (NZ opinions). **1100 S/A** RNZ

News, M-F Pacific Regional News; **1105 S/A** Forces Programme (for NZ personnel serving in PNG & E. Timor); **1108 M-F** Dateline Pacific; **1130 M** New Music Releases, *T* Mailbox (letters & DX news) or RNZI Talk (station info), *W* Tradewinds (Pacific commerce), *H* The World in Sport, *F* Pacific Correspondent. **1200 S-F** RNZ News, *A* Forces Programme (cont'd.); **1205 S** Sportsworld (recap magazine), *M-F* Late Edition. **1300 S/A** RNZ News, *M-F* Pacific Regional News; **1305 S** Tagata o te Moana, *A* New Music Releases; **1308 M-F** Dateline Pacific; **1330 M** Mailbox (letters & DX news) or RNZI Talk (station info), *T* Tradewinds (Pacific commerce), *W* The World in Sport, *H* Pacific Correspondent, *F* Sports Story. **1400 D** RNZ News; **1405 S** In a Mellow Tone, *M-F* Wayne's Music, *A* Spiritual Outlook. **1500 S/A** RNZ News, *M-F* Pacific Regional News; **1505 S/A** Forces Radio; **1508 M-F** Dateline Pacific; **1530 M** New Music Releases, *T* Mailbox (letters & DX news) or RNZI Talk (station info), *W* Tradewinds (Pacific commerce), *H* The World in Sport, *F* Pacific Correspondent.

Radio Sweden

1230 S In Touch with Stockholm (listener contact-1st)/Sounds Nordic (rock music-exc. 1st), *M-F* Sixty Degrees North (regional report), *A* Network Europe (Europe magazine-1st week)/Sweden Today (2nd)/Spectrum (arts magazine-3rd)/Studio 49 (topical discussion-4th); **1245 M** Sports Scan, *T* Close Up (profiles of Swedes-1st), *H* Nordic Lights (1st)/Green Scan (ecology-2nd)/Heart Beat (health-3rd)/The S-Files (things Swedish-4th), *F* Review of the Newsweek.

1330-1400 (as 1230-1300).

Voice Of America, Africa Service

1600 S/A Nightline Africa (weekend news-magazine), *M-F* News & Reports; **1615 M-F** Focus (a topic in-depth); **1623 M-F** Sports; **1630 M-F** Africa World Tonight. **1700 S** Reporters' Roundtable, *M-A* News; **1706 M-F** Talk to America (global phone-in), *A* News & Reports; **1720 A** Sports; **1730 S** Music Time in Africa; **1733 A** Press Conference USA.

1800 S/A News & Reports, M-F Africa World Tonight; **1805** S On the Line (US foreign policy), A Our World (science magazine); **1830** S/A News Headlines, W Straight Talk Africa (continental phone-in); **1833** S/A On the Line (US foreign policy); **1855** S/A Government Editorial. **1900** S News & Reports, M-F News, A Hip Hop Connections (music); **1906** M-F Border Crossings (music—exc. *T Housecall* (medical info)); **1923** S Sports; **1930** S Music Time in Africa (part 2), M-F World of Music, A News Headlines; **1933** A Press Conference USA. **2000** S/A Nightline Africa (weekend magazine), M-F Africa World Tonight.

Voice Of Greece

1600 A Hellenes Around the World (Greek popular & traditional music, letters).

WBCQ, Maine

7415 kHz.: **1945** M-F Planet World News. **2000** S/A The Last Roundup.

9330 kHz.: **1945** A Planet World News.

17495 kHz.: **1600** A Allan Weiner Worldwide. **1700** A Zombo's Mondo Record Party. **1800** A Radio Timtron Worldwide. **2030** A World of Radio.

WHRA, Maine

17560 kHz.: **1330** S World Harvest Country Style.

WHRI, Tennessee

5745 kHz.: **2000** S World Harvest Country Style.

9495 kHz.: **1005** S Turn Your Radio On (southern gospel music). **1230** A DXing with Cumbre. **1800** A World Harvest Coun-

try Style; **1805** S Pat Boone (variety), M-F Chuck Harder (populist political phone-in). **1905** M-F Chuck Harder (continued); **1930** A DXing with Cumbre.

9840 kHz.: **1205** A Turn Your Radio On (southern gospel music).

13760 kHz.: **1500** A DXing with Cumbre.

15105 kHz.: **1330** S World Harvest Country Style. **1530** S DXing with Cumbre. **1600** A Sports Spectrum Live.

WRMI, Florida

15725 kHz.: **1200-1600** M-A World Radio Network (relay). **1600** A World Radio Network (relay). **1700-2000** S/A World Radio Network (relay). **2000** A World Radio Network (relay).

WWCR, Tennessee

5070 kHz.: **1010** S A View from Europe; **1030** A World of Radio. **1110** A A View from Europe.

12160 kHz.: **1710** S A View from Europe; **1730** S Ask WWCR. **1800** M-F Natural Health Clinic, A Real Talk Radio; **1830** M-F Stairway to Health. **1900** A Real Talk Radio (continues); **1930** S Ken's Country Classics. **2000** S Worldwide Country Radio; **2030** A World of Radio.

15825 kHz.: **1000** M-F Worldwide Country Radio; **1015** S Ask WWCR. **1300** M-F Worldwide Country Radio. **1600** S Latin Catholic Mass, M-F Worldwide Country Radio. **1715** W Ask WWCR (exc. 2nd/3rd W). **1900** A U.S. Presidential Radio Address/Democratic Response. **2000** H DX Partyline; **2030** H World of Radio, F Ask WWCR. 

Shortwave Center

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East Meets West

or Good God, Gerttie, Look at All That Wire and Stuff

By Harold Cones

Harold Cones lives in Newport News, VA and vacations and teaches regularly on the outer banks of North Carolina, which lay about two hours south. Given the success of other coastal sites for long distance reception in the past decade, Harold decided to use the occasion of John Bryant's visit to Virginia to test the suitability of the outer banks for similar activities. A preliminary visit by Harold located no motels or rental properties where 500 to 2000 foot longwire antennas might be stretched between the structure and the Atlantic shoreline. Because of Harold's teaching knowledge of the outer banks, he located a closed site on the ocean that would accommodate a fan of three Beverage antennas. The situation was thus set for the rather laid back DXing style of Harold to meet the high tech, cutting edge DX intensiveness of John, or, as we prefer to call it, East meets West.

A great novel on East meets West DXing (yea, you know *that* is coming to a book store near you soon) might start like this: Slowly he unfolded his lanky 6'6" frame from the front seat of his small Toyota Matrix. The Matrix seemed to fit his persona, with its heavily tinted windows and the script "Womper Stomper" emblazoned on the rear quarter panel. He gazed intently around the beach, his dark glasses hiding the darting analytical movements of his eyes, the wind rippling through his nylon jacket, making small slapping sounds. "Due East?" he inquired. I motioned in the general direction. He stood frozen in time, looking toward the east, as if sniffing the air for rare DX. "Good, he responded, "this will due." He stood for some time, mentally

erecting antennas; you could almost feel his eyes moving behind the dark glasses, taking in every aspect of the location he was surveying. He slowly returned to the Matrix and opened the back latch, revealing an almost unfathomable amount of wire, radios and DXing paraphernalia. Such was my DXpedition introduction to John Bryant, the west coast DXpedition DXer, the guru of high tech radio signal reception. He began removing equipment, pausing every now and then to look toward the east. First came the big black boxes. "What's in the boxes," I inquired. "Built in receivers, computers and recorders," he replied. "Oh," I said, as I lifted my 525 out of the crushed cardboard Kinko's box in the back seat of my car. Next came bright orange spools of wire—endless numbers of spools of orange wire—each potential antenna cut to a length marked on the side of the spool: 500', 1000', 1500', 2000', 2500' (!). Then boxes of homemade radio gear, gear that I had not only never seen before, but gear that I could not even imagine using. And a box clearly marked "splitters." Then bags, boxes, sleeping bags, tomato stakes and books. He was here, he was ready to erect antennas, and I got the distinct impression I had better be ready too.

Well, enough of that fancy writing. The truth is there will never be a national best seller on DXing. What did we actually do when we got there? Well, we did do all that stuff above, only in real words. We then erected antennas. Due east went a 500' Beverage, pointed to the Mediterranean; to the northeast, a 1000' Beverage pointed to Europe; and the southeast received a 1000' Beverage, pointed to the Caribbean and South America. Each Beverage was neatly held above the sand with plastic tomato

stakes and each was grounded at the far end with a copper ground rod, pushed deeply into the sand. Small handi-talkies provided communication to be sure the wire was running true.

And then West began showing East how DXing is done. We had a 15-passenger van with the seats removed so that we could set up receiving equipment. John tied off each antenna to the bumper or trailer hitch of the van with some kind of tar coated fishing twine he had bought in Canada for just that purpose. Each antenna was then connected to a hand wound matching transformer, the transformer grounded, and the leads brought into the back of the van. There John placed a board with three hand-wound splitters (each labeled the direction the antenna was pointing), a lead from each splitter going to an Alpha-Delta antenna switch at each of their receiving stations. [See references at the end of this article]. Harold put a 2' X 4' folding table across the back of the van to hold his 525 and R8 and John set up a slightly different folding table near the front of the van to hold his self-contained black boxes. The black boxes were cut down ABS plastic audio cases, the open fronts having rack mounts for equipment (see dxing.info/equipment for a power point show on how to make one of these puppies). The two cases, one stacked on top of the other, held a 535 in one and a Ten-Tech 320 and computer in the other, as well as a grand abundance of electronic listening aids. We tried an assortment of chairs and finally settled on comfortable accommodations. Since there was no electricity at the DXpedition site, 12-volt DXing was the rule—no electricity meant electrical quietness, but also meant the loss of a coffee pot and other electrical DX essentials (but no real losses). Harold received his power from the van battery delivered through an MFJ-1129 power strip (with both PowerPoles and 5-way binding posts). John got his power through his own MFJ-1129, but used two deep cycle marine batteries (and a charger). The set up was quick, easy and convenient and the time came for some sunset DXing.

John is more interested in medium wave DXing at this stage of his radio career and Harold is more interested in shortwave. We soon found that the Beverages worked very well with both, with the added advantage of excellent longwave pick up. As we settled into DXing, West had a few other tricks for East. For beginners, John's computer held a highly modified Geoclock that showed almost every transmitter site in the world, all displayed in beautiful blue, green and gray (Harold had the old slide rule model). And while Harold was busily scribbling program details on paper, John was recording program detail on his hard drive, to later burn a CD to send to the station. And finally, just to rub it in a bit, John began talking about using the "Amazing Slow Downer" (on his computer) to modify the recorded speech so that he could catch that elusive top of the hour ID (for more information on this high tech stuff, see dxing.info/articles/hitech.DX).

Our agreement called for us to not erect antennas until two hours before sunset and to have them pulled by two hours after sunrise, so our routine for the next three days was to erect about 1700, DX until 0200, sleep in the van until 0430, and DX until 0700 or so. Our wives (our very *patient* wives, who were staying in a cottage with real beds) brought coffee about sunrise, so before we took the antennas down about 0800, we usually sat in the van relaxing and talking. It was on one of these occasions that John observed just how many strange people there are in the world—I had to remind him that we had just stayed up most of the night listening to static and radio stations all over the world (after stretching out several thousand feet of wire all over the beach), slept in a van with a bunch of radios and were now sitting in beach chairs, inside the van, drinking coffee and listening to the Virgin Islands on medium wave—oh yea, nothing strange there.

So what can you hear in the middle of the night from a beach in North Carolina when you have a bunch of wire strung up?

John and Harold logged these on long wave: Algeria RTA (153), France—France-Inter (162), Morocco—Radio Mediteerranee Intl (171), Germany—Deutschland Radio Berlin (177), Turkey—TRT 4 (180), Germany—Europe No. 1 (183), United Kingdom—BBC 4 (198), Morocco—RTM Azilal (207), France (Monaco)—Radio Monte Carlo (216), and Algeria—RTA 3 (252).

John, the medium wave guy, logged the following medium wave stations (Harold got to hear some of them when John ripped his headphones off and yelled, "Listen to **this!**":

Turks and Caicos—Radio Vision (530), St. Kitts and Nevis ZIZ (555), Dominican Republic HIAx (580), Morocco—RTM (612), Cuba—Radio Rebelde (670), Spain—RNE 1 (684), British Virgin Islands ZBVI (780), Mauritania—ORTM (783), Netherlands Antilles—PJB (800), France—France Bleu (864), St. Kitts and Nevis—Voice of Nevis (895), France—France Info, Toulouse (945), Spain—SER (1116), Croatia—HR 1 (1134), France—France Info, Bordeaux (1206), United Kingdom—Virgin Radio (1215), Norway—NRK (1314), France—France Info, Lille (1377), Bahamas—ZNS1 (1540), Anguilla—Caribbean Beacon (1610), US Virgin Islands—WDHP (1620), and Puerto Rico—WGIT (1660). Yea, I know, and I had to listen to him gripe about the poor reception conditions.

The shortwaves were very, very good to me. I heard virtually all the stations on my hit list, including most of the Indians. Among my favorites were: Radio Clube, Bolivia (3375), HCJB, Australia (11750), ABC, Katherine (2485), Radio Montecrista and Radio Crista, Dominican Republic (5800), Radio Christian Voice, Zambia (4965), and Radio Kekchi, Guatemala (4845).

Although we heard far more than we might have elsewhere, propagation conditions encountered on this three day DXpedition seemed quite poor to us (the luck of the draw, it would seem). According to John, medium wave propagation was poor and we both agreed shortwave propagation was not

a lot better, even though the bands were "hot" compared to a normal inland night. Thankfully, the reception conditions on long wave appeared to be excellent, with fairly predictable reception of most, if not all LW broadcast outlets from northern Africa, southern and central Europe.

Since we have returned, John has researched several other sources of propagation data to illuminate the medium wave situation we experienced, at least a bit. Obviously not an exact parallel, shortwave, at least at the lower frequencies, might correspond to some of these medium wave propagation parameters. First, Nick Hall-Patch has been running a continuous propagation monitoring project for several years now, automatically noting the strengths of Trans-Pacific medium wave signals very accurately each morning. He was kind enough to share the results of his monitoring for the relevant three mornings. His results for our first two nights indicate only fair strength on TP signals, but at least some presence of both high and low latitude paths (from his QTH of Victoria, BC to Japan/Korea and Down Under, respectively.) His results for Sunday AM, about 10 hours after our third evening DX session ended, indicated a significant opening in the higher MW frequencies on high latitude paths (as shown by 1566—Korea.) It is interesting to note that our only even partial reception of 1314—Norway was at the previous sunset. We may have noted the beginning of a high latitude opening.

Two sets of loggings have been published on-line that also bear on our experience. Martin Hall from Clashmore, Scotland reported that, between 0645 and 0900 on March 4, conditions were "not as good as yesterday—quite a lot of LA stations about, dominating, plus some Canadian Maritimes and the usual X-banders, but not a lot of note. Fairly unstable with signals up and down in strength." He went on to log a number of Columbians, a Venezuelan, a Cuban and a Mexican station. His session ended about 14 hours before our first one started. It might be significant that Martin noted declining conditions and a

southerly, low-latitude path, just as we did (our conditions on MW were southerly and went from bad to worst, literally). Patrick Martin of Seaside, OR reported on his DX between 1400 and 1500 UTC, also on March 4, about 9 hours before we began. He found "A fair DU [down under] morning, but with a "twist," a new one, 8RN 639—Katherine, NT popped in briefly at 1430 with an ID!... Nabbing my second NT catch was a thrill!" His six loggings in that hour were mostly DU "regulars," with the addition of a possible 6WA—Wagin on 558. While we are deeply jealous of 8RN, otherwise, it was as Patrick stated, only a "fair" DU morning... again, a southerly, low-latitude route.

There are a lot of unanswered questions. It is not really possible to assess the quality of propagation on the Outer Banks on the strength of one single testing session. Several other aspects of an overall assessment as a listening site are clear, however. Thanks to population pressures, overhead electrical lines plagued with corona and quite narrow beaches, good

listening sites on the northern half of the Banks are few and far between. It appears highly unlikely that a good site for the more relaxed "120 volt" style of DXing listening can be found at all. Obviously, if we are to really access the Outer Banks as a radio monitoring site, we will have to make several more visits. It's a nasty job, but someone has to answer all those questions.

Interesting Reference Information: Besides the stuff mentioned above, try these. For way more than you ever want to know about rolling your own splitters and matching coils, see DXing.info/equipment and its companion article. John also wrote an article comparing available commercial splitters—it is found in the July 2004 NASWA Journal, and at DXing.info/equipment/splitters_bowers_Bryant.DX.J. DXing.info also has a great series of DXpedition reports, including the famous Grayland DXpeditions (in word and video)—worth reading (and seeing), for sure. If you don't catch the DXpedition bug after experiencing all this, you need to see a doctor.

A Visit to All India Radio: The Chennai Shortwave Transmitter Site

By Jose Jacob, VU2JOS

(Danish Shortwave Listeners Club, DX Window #247)

Chennai which was known in English as Madras till recently is located in the South Eastern coast of India. It is a metropolitan city and is the capital of Tamilnadu State. The local language is Tamil. A couple of days back on 13 May 2004 while passing through Chennai, I had the pleasure of visiting the AIR transmitting station at Avadi there by prior appointment.

All India Radio—Madras as it was known then was inaugurated on 16 June 1938. Its studios are in near the beach in Mylapore. The MW & SW transmitters are presently located at Avadi, about 25 kilometers away from Chennai in a 275 acre site. Its

peripheral wall is about 7 kilometers long! The staff quarters are also located here. One has to pass through security checks at 3 places to enter the transmitter building. There are 3 transmitter buildings at this site. In the first building, which is about 1 km away from the main entrance, are two SW transmitters. On the way we can see their large antennas.

In one room is the 50 kW BEL HHB 144 transmitter made by Bharat Electronics, Bangalore and commissioned in 1994. It is used for the A channel programs on 4920 and 7160. In the next room is a 100 kW BBC SK 51F3 transmitter made by British Brown Boveri and commissioned on 19 Feb 1985. Currently it operates on 7270 with test broadcasts of AIR FM Gold programs relayed from New Delhi received via satellite. Later it is proposed to be used for the new AIR

news channel. Earlier it also used to operate on 4790, 4990, 7270, 7275 etc. with External Services to Sri Lanka in Tamil, English & Sinhala and Vividh Bharati programs on 10330 etc. on the Home Service. This transmitter can in fact operate from 3900 to 26100 kHz. This transmitter is known as M5. (M stands for Madras and 5 is transmitter no.)

Earlier in this building there was a 10 kw Philips KVFH10/12A SW transmitter that was commissioned on 16 June 1938. It used to operate on 4920, 6085, 7160 and 9575. It was dismantled after 1994 when the 50 kw BEL transmitter replaced it. A workshop is working in that room now. There used to be another 100 kw Marconi BD253 (Players) SW transmitter in this building. It was on air from 3 October 1957 with the popular Vividh Bharati programs on 6115, 7235, 9750, 15125 kHz etc. It was also used for the External Service to South East Asia on 15335 and for the programs for the Indian Peace Keeping Forces in Sri Lanka on 7205, 7340, and 9910 in the mid 1980s. It was dismantled around 1992 and in its exact place the BEL 50 kw transmitter was installed. There is a standby studio also here.

The 2nd transmitter building is about half a km away from the SW building. In this building there are the 2x10 kw BEL HMB 163 MW transmitters operating on 783 kHz with Vividh Bharati programs which were commissioned on 14 October 1994. Next to it is a 20 kw Harris DX20 MW transmitter operating on 1017 kHz with B channel programs which was commissioned on 17 October 2001. Interestingly these two transmitters use the same self radiating mast antenna of 91.5 Meters using the Diplexing System. There are standby generators in this building. A Mobile BEL 10 kw transmitter was in use here temporarily when Harris transmitter was under installation. It has now moved to AIR Cuddapah now where a new 100 kw transmitter is under installation. Till 2001 an NEC MB124C was in use here on 1395 kHz by B Channel and this was moved to the A channel building complex to be used as stand by for the main transmitter there.

About quarter of a km away is the third building in which there are the 2x100 kw BEL HMB 140 MW transmitters operating on 720 kHz which was commissioned on 14 May 1987. There is also a 10 kw NEC MB124C transmitter that is used as standby. As the transmitter site is near the coast they use directional antenna to beam towards the mainland. For this, the main self radiating mast tower is 148 Meters high while the reflector tower is of 122 Meters. There is standby generator for the 10 kw NEC transmitter. Programs on 5 channels from the studios are received by Studio to Transmitter Link on 1440 MHz and some programs are also received by Satellite. There was an old 20 kw BBC SM42 A3 transmitter here which was commissioned on 11 Jan 1956 and dismantled in the mid 1990s. At first it used to operate on 940 kHz but shortly it was changed to the present channel of 720 kHz.

In the entire site I could see over 15 towers. Several cows were grazing under the antennas, may be to bring down the grass. They also use Motorola walkie talkies in the site. The Security people and others were seen using transistor radios and wired speakers and listening to their station keenly which was giving the results of the Indian General Elections during the time of my visit.

Avadi is just one site used by AIR Chennai. Till mid 1990s they used to have a small site at Guindy in the City. I had the pleasure of visiting it in early 1990s. At that time the following transmitters were there:

1. AWA BTH 2 783 kHz 2.5 kw Vividh Bharati
2. BEL HMB 103 1395 kHz 1 kw B Channel
3. Collins 20 T MW 1 kw Standby Transmitter.

These were dismantled in the mid 1990s when higher power transmitters came up in Avadi.

Another is the FM site at Chepauk. Here a 3 kw BEL HVB 123 transmitter was commissioned on 23 July 1977 which operated on 107.1 MHz. It was in fact the very first FM station in India. The antenna was put on the TV tower at this site. This was replaced by 2 x 5 kw transmitters on same channel. FM II on 105.0 MHz with 5 kw was inaugurated on 15 May 1998. Both these FM transmitters are being replaced by 20 kw transmitters in the future.

AIR Chennai broadcasts in Tamil, Telegu, English, Hindi, Sanskrit etc. Being the station in the state capital, several of its programs are also relayed by all other AIR stations in the State. AIR Chennai also uses the following transponders of INSAT 3 c for networking downlink purposes. 1) S1 Transponder 2557.425 MHz, 2) S2 Transponder 2592.950 MHz. At Swamy Sivanand Salai, there is the AIR South Zone Regional Office also.

Chennai has an interesting history of broadcasting:

The Madras Presidency Radio Club was formed by Mr. C. V. Krishnaswamy Chetty on 16 May 1924 at Holloways Garden, Egmore. On 31 July 1924 a 40 watts MW station with the callsign 2GR was started by them. Later the power was increased to 200 Watts. In 1927 it was closed down due to financial difficulties and given to the Corporation of Madras. On 1 April 1930 it was revived by the Madras Corporation and operated on 770 kHz. In 1926 there was also another station which operated by Crompton Elec. Co. on 1360 kHz with 120 watts. On 16 June 1938 All India Radio Madras was started with a 10 kw SW transmitter operating on 6085, 7260 & 9590 kHz and a 250 watt MW transmitter on 1420 kHz. On 4 January 1949 a 1 kw MW transmitter was started on 1420 kHz along with a 500 watt SW transmitter operating on 4920, 6085 & 7260 kHz. When AIR started the station operated by the Corporation of Madras closed down. On 9 June 1950 B channel started on 1110 kHz with a 1 kw transmitter. The station used callsigns in the VUM series. Vividh Bharati

service started on 15 June 1961 on 1550 kHz with a 2.5 kw transmitter. Other transmitters were added from time to time. Other historical information is given else where in this article. Some years back I had visited also a museum in Chennai where old broadcasting equipment are displayed.

Madras has many firsts including the first FM station in India and the first Campus Community Radio station.

The current details of AIR Chennai programs are as follows:

A 720 kHz 2x100 kw (10 kw Standby)

B 1017 kHz 20 kw

C 783 kHz 2x10 kw (Vividh Bharati)

FM I 107.1 MHz 2x5 kw (FM Rainbow)

FM II 105.0 MHz 5 kw (FM Gold)

SW 4920, 7160 kHz 50 kw

SW 7270 kHz 100 kw (Tests)


Besides AIR, the following private stations are also operating on FM from Chennai now:

1) Gyan Vani 104.2 MHz (from 2003)

2) Radio Mirchi 98.3 MHz (from 23 May 2003)

3) Suryan FM 105.1 MHz 20 kw (from 5 May 2003)

4) Anna FM 90.4 MHz 50 Watts (from 1 Feb 2004) (Anna University, First Campus Community R Station in India)

I have got several verifications from AIR Chennai. Their address is: Superintending Engineer, High Power Transmitters, All India Radio, Avadi, Chennai 600062, Tamilnadu, India. Email: airavadi@vsnl.com. Sometimes replies are received from AIR Directorate General in New Delhi although reports are sent to Chennai. 

Equipment Reviews

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PAR Electronics BCST-HPF High Pass Filter

Strong local MW stations can be real pests, especially with receivers with broadly tuned front end stages or with inadequate RF amplifier and mixer stages. The strong local signals will overload the active devices in the front end of the radio causing non-linear operation resulting in spurious signals in the shortwave spectrum, increased noise and desensitization of the receiver.

Spurious signals are not always the fault of the receiver, however. Metal-to-metal contacts with poor conductivity in the vicinity of the radio (metal gutters are a common culprit) can act as non-linear mixing devices, resulting in various ghost signals in the shortwave bands. In this era of deregulation, local mediumwave stations may not be well maintained, resulting in harmonics. One quick test that can be done is to switch in the receiver's front end attenuator (provided it has one). Spurious signals due to poor receiver front-end performance will be reduced significantly.

NASWA's technical guru, Joe Buch, suggests the following technique for determining if the spurious signals are being generated in the receiver's front-end (and that a high-pass filter in the antenna feedline may be of help): "What I do is measure the drop in level for the insertion of a fixed, known attenuation. For example, if I insert a 10 dB attenuator at the antenna input, I can measure the drop in S-meter reading on a signal I know is not a spur or IMD (intermodulation distortion) product. Using this drop as a calibration reference on the S-meter, you can now tune to a suspected IMD product. Insert the same 10 dB attenuator. If the signal drops more than 10 dB it (the signal) is an IMD generated after the

attenuator. If it does not drop more than 10 dB, it means the IMD is being generated ahead of the attenuator, either in the antenna or in a passive IMD generator like a corroded antenna connection or a metallic downspout, power conduit, or guy wire. I think the test I have suggested should do the job. If the receiver has a front-end attenuator, that can be used even though the attenuation is not known. The meter provides the difference reading. The only thing you really want to know is whether the source of the IMD is in front of or after the attenuator. Of course, if the receiver attenuator is after some active component, then an external attenuator must be placed at the antenna input of the receiver."

A solution

If the spurious signal problem is being caused by front-end overload by local mediumwave stations, a high-pass filter may be of considerable help. The filter is placed in the antenna feedline, between the antenna and the receiver's antenna input. Such a filter reduces signals below a certain frequency and allows signals higher in frequency to pass to the receiver at the usual level. This reduction in signal strength allows the receiver's front end circuitry to perform adequately without overload.


The PAR BCST-HPF

This is a MW broadcast band rejection filter made by PAR Electronics in Glenville, North Carolina. It is housed in a weather-proof die-cast aluminum enclosure measuring 2¼×2½×1½ inches (H×W×D). High quality silver/Teflon J50-239 coaxial connectors are used for input/output. The unit is designed

for 50 ohm antennas and receiver inputs. There are two holes through the case (but outside the space for the circuitry) that permit mounting the filter to a wall or panel. One feature of the PAR filter that those from most other manufacturers lack is a switch to bypass the filter and connect the antenna directly to the receiver input. This permits quick assessment of the filter's action or listening to mediumwave signals without having to disconnect cables.

The BCST-HPF filter uses a seven-pole elliptical design to provide a sharp transition

at the filter's cut-off frequency. The filter provides an average of 50 dB attenuation of frequencies below 1.7 MHz and only 1 dB of attenuation of signals above 1.8 MHz. The minimum attenuation in the range of 0.5 to 1.6 MHz is 41 dB. My testing confirmed these specifications.

The PAR BCST-HPF is available from Universal Electronics for \$48.95—see <http://www.universal-radio.com/catalog/filters/4426.html>. PAR Electronics can be contacted at par@parelectronics.com, P.O. Box 645, Glenville, NC 28736; (828) 743-1338. 

WELCOME TO THE FOLLOWING NEW MEMBERS

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CLARKE STOLLEIS, Gold Beach, OR
GEOFF SEYMOUR, Montecito, CA
DENNIS DEAN, Bay City, MI
JERRY CANADAY, Hyde Park, NY
GUY DRAPEAU, Ottawa, CA

Technical Topics

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BPL Update

Not in my backyard! That was the central theme of most of the entities that filed comments with the FCC opposing the deployment of BPL on HF and VHF frequencies in the USA.

In a process that began over a year ago, thousands of users of the HF and low VHF spectrum weighed in on BPL. Most of those making comments were amateur radio operators, but all users of HF including SWLs were represented.

The formal FCC comment process has now ended and it is up to the commissioners to decide what to do next. Do they charge ahead knowing it will be impossible to stuff BPL back into Pandora's box? Do they regroup and tighten Part 15 regulations? Do they protect one service while dumping BPL interference on frequencies used by services perceived as being less important or less vulnerable? The answer should soon be known.

In its original comments NASWA suggested, that because every HF user would request special protection, the FCC should consider confining BPL to unused segments of the VHF TV band. When the NASWA prediction was borne out by the initial round of comments, NASWA decided to amplify on its initial suggestion in its reply comments.

Here is the text of the FCC reply comment filing:

The North American Shortwave Association (NASWA) represents the interests of people in the United States who rely on free access to international news and cultural programming via short-wave radio broadcasts.

NASWA filed its original comments on this NPRM on May 3, 2004. In those comments NASWA demonstrated why the FCC's proposed procedural rule changes to mitigate BPL interference would be impractical and ineffective for protection of the international short-wave broadcasting service.

The technical feasibility of active, real-time interference mitigation has also proven ineffective in the weeks since May 3. Alliant Energy in Cedar Rapids, Iowa, using Amperion BPL technology, has been unable to eliminate harmful HF interference despite their best efforts since March to notch out interfering signals. A similar interference condition has been reported in the Raleigh, NC test area. The best efforts of these BPL providers did not eliminate harmful interference. The interference mitigation techniques, that are the basis of this NPRM, do not always work.

NASWA warned in its comments that it was likely all HF spectrum users would request special protection by the FCC from BPL interference. As predicted, APCO, The Association of Public-Safety Communications Officials-International, Inc.; ARRL, The American Radio Relay League; NAB, The National Association of Broadcasters; NAS, The National Academy of Sciences; NASB, The National Association of Shortwave Broadcasters; NASWA, The North American Shortwave Association; NTIA, The National Telecommunications and Information Administration; and several other organizations requested protection of particular frequencies and frequency bands or geographical regions (quiet zones) by BPL signals.

NASWA suggested in its original comments that BPL should be confined to frequencies above 30 MHz. NASB supported that idea.

NASWA further suggested that vacant VHF TV channels would be a place where BPL could co-exist with TV broadcasting.

Organizations representing public safety agencies noted that many state and local police and fire services still use "low band" VHF allocations between 30 and 50 MHz and requested that BPL signals be prohibited from using this range. The NAB expressed concern that BPL signals would interfere with VHF TV reception and requested that BPL signals be prohibited from using frequencies above 50 MHz.

Thus, nearly all frequencies between 2 and 80 MHz would be precluded from use by BPL if the FCC were to satisfy the concerns of all entities requesting special protection. Regardless of what the FCC decides to do in response to these requests for special protection, it is unlikely that all entities will be happy with the result. The FCC is thus forced to adopt rules that will do the least harm to existing services.

In NASWA's opinion, that least-harm solution would be for BPL to be required to use vacant VHF TV channels under carefully engineered criteria that would protect co-channel and adjacent-channel TV broadcasters. The current TV channel allocations were developed in the 1940s when TV receivers were less selective. In each major market adjacent channels were left vacant to accommodate the 1940s state-of-the-art receiver selectivity. Selectivity of today's receivers is much improved. Today's cable-ready TV receivers require much better adjacent channel selectivity because cable TV systems use all VHF channels.

BPL signals operating on vacant "over-the-air" TV channels would not be expected to affect cable TV subscribers. There are strict FCC rules limiting unintentional radiation by cable systems. The same tight shielding that prevents unintentional radiation from cable TV systems also protects cable TV systems from interference from outside

emitters sharing the same frequencies. Responsible cable TV operators survey their physical plant periodically looking for problems. Unintentional radiation would make CATV program products freely available to nearby TV receiving antennas and would limit the ability to sell cable service.

NASWA was pleased to see the release of NPRM ET Docket 04-186 on May 25, 2004 soliciting comments on how wireless broadband services could use vacant VHF and UHF TV spectrum. If wireless broadband services that intentionally radiate can co-exist with broadcast TV signals, then surely BPL signals with some unintentional radiation can also co-exist with VHF TV broadcasting.

Because both BPL and broadband wireless services would use robust, adaptive, digital technology, it is likely they could also co-exist on the same otherwise-vacant, TV spectrum. Coordination will likely be required, but with proper engineering, frequency reuse should be achievable. Additional study is suggested.

NASWA urges the FCC to consider both of these NPRM's together. The comments the Commission receives on the feasibility of using vacant VHF TV channels for wireless broadband services will be directly relevant to whether BPL on vacant TV channels can co-exist with TV and/or broadband wireless signals. If the outcome of the NPRM ET Docket 04-186 process shows broadband wireless can use vacant TV channels, the FCC should mandate that BPL services share these same vacant frequencies and vacate all frequencies between 2 and 54 MHz.

Since that reply comment was filed on June 22, 2004, Alliant Energy has decided to abandon its experimental operation in Cedar Rapids after trying for months to eliminate harmful interference to an amateur radio operator. The FCC did not move to shut down the utility for violation of Part 15 rules. It was only when the ARRL filed a formal complaint against the utility

requesting immediate shutdown and fines for willful violation of the FCC rules that the utility, seeing the handwriting on the wall, decided to cave in. Alliant Energy also cited economic factors in making their decision.

Hopefully, there may be a trend beginning. The City of Manassas, Va. and the BPL contractor that was supposed to provide BPL service to the entire city over the municipal electric grid have decided to end their contract by mutual agreement. Manassas has now found another small company, Communication Technologies Inc. (COMTek), to risk its own capital to construct and operate the service.

The utility near Raleigh, NC, after failing to cure interference from its BPL operation, has chosen a different tactic. They simply redefined what "harmful" is. Sort of like Bill Clinton trying to figure out what "is" is, they have stretched credulity by adopting a silly definition of "harmful interference". They have taken the official position that a mobile receiver, driving along the route of the BPL transmission lines, will not encounter harmful interference because the vehicle will soon drive beyond the BPL service area. Of course such a head-in-the-sand attitude drew plenty of reply comments from hams and public safety organizations. They pointed out that often a mobile unit is dispatched to a specific site for some emergency support. The vehicle may be required to park in close proximity to a BPL-carrying power line for an extended time until the emergency condition goes away. Others pointed out that BPL signals are carried by wires running along the roadside, so a mobile HF or low band VHF user may be exposed to harmful interference for a long time even though the vehicle is moving.

Ed Hare of ARRL recently posted the following list of BPL test sites with their current status. If you are a short-wave listener living in or near one of these places, you might want to be on the alert for new inter-

ference signals. Feel free to contact me via e-mail and I will help you determine if what you are hearing is a BPL signal.

Here is the ARRL list shown by state in alphabetical order:

Cullman, AL (very small HomePlug system)

Cottonwood, AZ

Phoenix, AZ (one or two houses)

Menlo Park, CA (not yet active)

Pueblo, CO (not known to be active)

Miami, FL (not yet active)

Honolulu, HI

Cedar Rapids, IA (shut off)

Boise, ID

IN - Unspecified small test, according to unconfirmed info relayed through IN DPUC

Potomac, MD

Rochester, MN (just getting ramped up)

Cape Girardeau, MO

Everetts, NC

Raleigh, NC

Williamstown, NC (not known to be active)

Omaha, NE (not known to be active)

Nevada - experimental license, unknown locations - no site yet identified

Penn Yan, NY

Solvay, NY

Rochester, NY (utility declined to activate)

Bowling Green, OH (not known to be active)

Hyde Park, OH (just getting ramped up)

Chambersburg, PA (not known to be active)

Emmaus, PA

Winchester, TN (not known to be active)

Blanco, Burnet, Weimar, TX (not yet active)

Manassas, VA

Nelson CTY, VA

Chelan CTY, WA

If a BPL service begins operation in your community, you need to know about it. Stay informed about what is going on in your area. One easy way to stay on top of this fast changing field is to join the Yahoo group "BPLandHamRadio". Here people post news about all the different tests going on in the USA and announcements of new start-ups. If you believe your short-wave reception is being interfered with by a BPL service contact both the utility and the BPL service provider. Work with them to help them verify that they are causing the interference. If they try to fix your problem and fail it may be necessary to get tough by filing a formal FCC complaint. It worked for ARRL and that ham in Cedar Rapids.

It will be up to individual short-wave listeners to carry the ball. NASWA does not have the deep pockets necessary to carry your water like ARRL can afford to do on behalf of its members. In the final analysis the interference you encounter will be your problem to fight. The FCC has so far proven unwilling to help people reporting BPL interference.

Don't look for a change in FCC commissioners to fix the problem. President Bush has publicly spoken about his enthusiastic support for BPL. The President appoints the FCC Commissioners and the Chairman. All the Commissioners, both the 3 Republicans and the 2 Democrats are on record supporting BPL. Even if President Bush loses the November election, his likely Democrat opponent has publicly advocated the rapid rollout of broadband technology. So the cheerleading for BPL will likely continue in Washington under the next administration regardless of who wins in November. It will be up to you to make as much noise as possible to your senators and representatives. The battle has only begun.

Hopefully BPL will die of its own technical and economic faults. But we can't count on it. We must arm ourselves with knowledge about what BPL interference sounds like and who to contact in your local area if you identify interference. We must prepare for the worst while hoping for the best.

Remember that your right to listen to short-wave radio for your news is guaranteed by international radio regulations, FCC Part 15 regulations, and ultimately by the first amendment to the US Constitution which guarantees in part, "Congress shall make no law ... abridging the freedom of speech or of the press; ...".

It can be argued that the FCC is an agent of the Congress when it writes communications regulations under authority granted to the FCC by the Communications Act. When those regulations fail to protect your right to free access to the news those regulations violate the protections of free speech and a free press guaranteed by the first amendment.

At least that is my opinion. But then I am not a constitutional lawyer, I just play one on the internet and in this column. Stay tuned.



Adrian Peterson's Diary

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

On the Air in Tokyo Bay

Tokyo Bay is a huge and wide bay that is landlocked and protected by several islands, large and small. Surrounding the bay are many well known cities such as Chiba, Kawasaki and Yokohama, and of course, Tokyo itself.

Originally, Tokyo was known as Edo, the name of a ruling family in the Middle Ages. The name of the city was changed in 1868 to Tokyo, a name that means "Eastern Capital."

At the end of events associated with the Pacific War, His Majesty Hirohito, the Showa Emperor of Japan, announced on radio on August 15 1945 that the war was over. The Peace Ceremony was signed on board the navy vessel "Missouri" nearly three weeks later, on September 2. The role that radio played in these events forms an important and interesting chapter in international radio history.

At the time of the signing ceremony on the aircraft carrier "Missouri," there were 260 Allied navy vessels at anchor in Tokyo Bay. The "Missouri" itself lay at anchor eighteen miles out in the bay and six miles off the coast of Yokohama. An armada of 1900 planes, Air Force and Navy, flew overhead.

The USS "Missouri" was launched in January 1944, the fourth navy vessel to bear this title. It was noted on the air in that era by shortwave listeners in the United States, New Zealand and Australia with the callsign, NCBL.


Another navy vessel, the USS "Iowa," also played a major role in the relay of radio signals at the time of the historic events in Tokyo Bay. This ship, the "Iowa," was

launched in August 1942, and it was often noted on air under the callsign KU1M calling KU5Q on the island of Guam.

At the time of the signing ceremony, many radio circuits were activated to ensure reliable worldwide coverage. The originating point was the main ship transmitters, NCBL, on the "Missouri." Nearby was the "Iowa" which acted as the network control for these broadcasts with its shortwave transmitters under the callsign KU1M.

The four shortwave transmitters of Radio Tokyo at Nazaki in Japan carried a relay of the broadcast for long distance coverage, which was picked up in Guam, the Philippines and Hawaii for onward relay to the receiving stations in California and elsewhere. And from there, of course, the relay became a worldwide radio broadcast phenomenon.

It was on September 2, 1945, at 9:02 am local time that General Douglas MacArthur stepped before the microphone that was set up on the landing deck of the "Missouri" for this historic worldwide broadcast. His wife Jean was still in the Philippines at the time, living in the German embassy on the edge of Manila. She heard her husband's radio broadcast on a shortwave radio.

There is only one known QSL from these ships in this era. A QSL letter was received by Ray Simpson, the shortwave columnist for the Australian magazine, *Radio & Hobbies*. This letter, verifying the reception of KU1M on the "Iowa" in March 1947, was received from the radio section at navy headquarters in California. At the time, the "Iowa" was on Navy maneuvers off the coast of California, and it was noted on 9670 kHz. 

Listener's Notebook

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A SPARSE MONTH news-wise, many thanks to indefatigable reporters Glenn Hauser, Ivo Ivanov and Angel Datzinov for diggin up the bulk of this month's column!—AQ

AUSTRALIA *Voice International* change in English: 0900-1400 on 13685 via DRW 250, ex 0900-1300 (Observer-BUL/DX Listening Digest/Hauser-OK)

BRASIL 3230 *Radio Guarujá Paulista*, Marília, SP, 2226-0242, Jul 03, 06 and 07, testing on this frequency ex-3235, Portuguese ID: "Rádio Guarujá FM" which was relayed, ann festa junina em Guarujá (Pedroso and Romais in @-tividade DX, Jul 19 and Locatelli-URU via Conexión Digital, Jul 10). Heard again here Jul 16, after some days of inactivity, re-laying Guarujá FM, strong signal. (Locatelli-URU via Conexión Digital, Jul 24). Also heard 0215-0315, Jul 25, fast talk in Portuguese, Rap songs, too poor to get an ID. (Petersen-DEN/DSWCI DX Window)

3235 *Radio Guarujá Paulista*, Marília, SP, 2311-2321, Jul 01, folk and light songs in an unreadable music program. (Gonçalves-POR/DSWCI DX Window)

3365 *Radio Cultura*, Araraquara, SP, 0220-0230, Jul 25, Portuguese animated talk, pop music. (Petersen-DEN/DSWCI DX Window)

4765 *Radio Rural*, Santarém, PA, 2120-2201, Jul 07 and 25, rosary, ID, ann frequency and owner, Voz do Brasil; transmitter break down 2201. (Van Arnhem and Gonçalves-POR/DSWCI DX Window)

4805 *Radio Difusora do Amazonas*, Manaus AM, 2203-2216, Jul 07, Voz do Brasil. (Gonçalves-POR/DSWCI DX Window)

4825 *Radio Canção Nova* (t), Cachoeira Paulista, SP, 2205-2218, Jul 07, Voz do Brasil; heterodyne with Peru 4824.4. (Gonçalves-POR/DSWCI DX Window)

4825 *Radio Educadora*, Bragança, PA, 2137-2203, Jul 08, light songs, ann frequencies and owner, slogan: "Educadora—A Voz Católica da Família," Voz do Brasil 2200. (Gonçalves-POR/DSWCI DX Window)

4875 *Radio Difusora*, Boa Vista, RR, 2211-2220, Jul 07 and 25, Voz do Brasil. (Van Arnhem and Gonçalves-POR/DSWCI DX Window)

4875 *Radio Difusora Roraima*, 0325-0356*, Jul 24, continuous Brazilian pop vocals with full ID and frequency ann in Portuguese at 0346. More pop vocals until 0355 ID and sign off ann. Off without a National Anthem. (D'Angelo-PA/DSWCI DX Window)

4885 *Radio Club do Pará*, Belém, PA, 2203-2216, Jul 08, football news, sudden feed of Voz do Brasil 2210. (Gonçalves-POR/DSWCI DX Window)

4885 *Radio A Voz do Coração Imaculado*, Anápolis, GO, 2020, Jul 18, Catholic religious program. Reactivated after many years! (Cássio-BRZ/DSWCI DX Window)

4905 *Radio Anhangüera*, 2120-2345, Jul 25 having a very high K-index during several hours. (Van Arnhem-HOL/DSWCI DX Window)

4924.9 *Radio Educação Rural*, Tefé, AM, 2219-2229, Jul 07, Voz do Brasil. (Gonçalves-POR/DSWCI DX Window)

4985 *Radio Brasil Central*, 2120-2345, Jul 25 having a very high K-index during several hours. (Van Arnhem-HOL/DSWCI DX Window)

5015 *Radio Pioneira* (t), Teresina, 2120-2345, Jul 25 having a very high K-index during several hours. (No ID heard), nice signal! (Van Arnhem-HOL/DSWCI DX Window)

6060.12 *Radio Tupi* (p), 0545, Jul 17, Portuguese religious program with the preacher who is usually heard on Radio Victoria (6020.3), who has a very distinctive voice. (Howard-CA/DSWCI DX Window)

6135 *Radio Aparecida*, Aparecida, SP, 2120-2247, Jul 06 and 25, Voz do Brasil U(news of Poder Judicial and Jornal do Senado). (Van Arnhem and Gonçalves-POR/DSWCI DX Window)

6150 *Radio Record*, São Paulo, SP, 2221, Jul 06, Voz do Brasil. (Gonçalves-POR/DSWCI DX Window)

9504.9 *Radio Record*, São Paulo, SP, 2205-2211, Jul 05, Voz do Brasil. (Gonçalves-POR/DSWCI DX Window)

9530 *Radio Nova Visão*, St. Maria, RS, 2207-2213, Jul 05, Voz do Brasil. (Gonçalves-POR/DSWCI DX Window)

9565 *Radio Tupi*, Curitiba, PR, 2210-2217, Jul 05, Voz do Brasil. (Gonçalves-POR/DSWCI DX Window)

9665 *Radio Marumby*, Florianópolis, SC, 2215-2222, Jul 05, Voz do Brasil. (Gonçalves-POR/DSWCI DX Window)

9665 *Radio Nacional do Brasil*, Brasília, DF, 1918-2003, Jul 09, Portuguese to Africa and Europe, talks, then programme "Brasil sem fronteiras" (=Brazil without Borders). (Gonçalves-POR/DSWCI DX Window)

9675 **Radio Canção Nova**, Cachoeira Paulista, SP, 2218, Jul 05, Voz do Brasil. (Gonçalves-POR/DSWCI DX Window)

9695 **Radio Rio Mar**, Manaus, AM, 1006-1625, Jul 06, news, advs. (Gonçalves-POR/DSWCI DX Window)

11765 **Radio Tupi**, Curitiba, PR, 2146-2205, Jul 03, religious programme, phone-ins. (Gonçalves-POR/DSWCI DX Window)

11815 **Radio Brasil Central**, 0237-0314, Jul 21, futebol sports talk in Portuguese. Nice ID, adv string and jingle ID at 0242 and again at 0256. Formal ID and frequency ann at 0300 followed by religious program. (D'Angelo-PA/DSWCI DX Window)

11830 **Radio CBN Anhangüera**, Goiânia, GO, 2221-2228, Jul 10, football match report. (Gonçalves-POR/DSWCI DX Window)

11925.1 **Radio Bandeirantes**, São Paulo, SP, 2117-2129, Jul 06, news, advs. (Gonçalves-POR/DSWCI DX Window)

CANADA New additional transmission of **Radio Canada International** to Southeast US, Cuba and Haiti:

1000-1200	French	17765	Mo-Fr
1000-1300	French	17765	Sa/Su
1500-1900	French	17765	Mo-Fr
1600-1900	French	17765	Sa/Su
1900-2200	English	17765	
2200-2400	French	15300	

New schedule of **Radio Canada International** in Portuguese to Brasil:

2100-2130	Portug.	15165	17740	Fr	new xmsn
2330-2400	Portug.	11825	15455	Sa/Su	new xmsn

(Observer-BUL)

CHILE **Voz Cristiana** change in English: 2000-2400 on 11665 via SGO 100 kW—additional transmission (Observer-BUL/DX Listening Digest/Hauser-OK)

CHINA **CRI**'s new frequencies according to monitoring May 16-June 28:

7250	1300-1357	English, ex in Russian
7250	1400-1457	Chinese, ex in Russian
7250	1500-1557	Russian
7250	1600-1657	English
7295	1900-1957	English
7295	2000-2057	English
7295	2100-2157	English
9430	1900-2057	Chinese, ex in English
9430	2100-2157	English (DELETED 2200-2257 En)
9440	1500-1557	Russian
9440	1600-1657	English
9610*	1400-1557	English, ex in AM
9790	1900-1957	Cantonese
9795	1200-1657	English
11520	1530-1557	English >>>> DELETED
11670	1200-1257	Russian

11670	1600-1657	English
11670	1700-1757	English
11670	1800-1857	Chinese, ex in English
11670	1900-1957	Romanian
11810*	1300-1357	English, ex in AM
11850	1200-1457	Russian
11940	1600-1657	English
11940	1700-1757	English
11940	1800-1857	Chinese, ex in English
11940	1900-1957	Chinese, ex in English
12015	1900-2057	Chinese, ex in English
12080	1700-2057	English
12080	2100-2057	Chinese, ex in English
13640	1500-1557	English
13640	1600-1657	English
13640	1700-1757	English
13640	1800-1857	Chinese
13730	1600-1657	English
13760	2000-2057	Chinese, ex in English
13790*	1500-1757	??
13830	1700-1857	English, >>>> DELETED
13860	1500-1757	Russian, NF, ex-13790
15150	1700-1757	French, ex in English
15150	1800-1857	Chinese, ex in English
17490	0400-1657	English
17510*	1600-1957	English
17580*	0900-1457	??
17650	0400-0557	French, ex in English
17650	0600-0757	Chinese, ex in English
17650	0800-0957	French, ex in English
17650	1000-1157	Chinese, ex in English
17650	1200-1357	French, ex in English
17650	1400-1557	Chinese, ex in English
17650	1600-1657	French, ex in English

* DRM transmission (Observer-BUL)

CHINA—TAIWAN Frequencies changes for **Radio Taiwan International**:

1800-1900	German	NF 9565, ex 9955
1900-2000	Chinese	NF 9565, ex 9955 // 15600
2000-2100	French	NF 9635, ex 9955 // 15130 18930

(Observer-BUL)

Frequency changes for **WYFR Family Radio** via Taiwan (TAI 250 kW):

0000-0200	Hindi/En	NF 15195, ex-15060
1100-1600	Chinese	NF 6155, ex-6300
2100-2400	Chinese	NF 6155, ex-9280

(Observer-BUL)

CONGO—REPUBLIC **Radio TV Congolaise**, Brazzaville verified my reception report with an incomplete QSL letter from "Directeur administratif e financier—Mr. Félix Lossombo." Here are some data:

6115 50kW 0600-0800 and 1700-2000

9610 0700 -1700 and

5985 100kW, but at present using only 50 kW at 0430-0700 and 1700-2300.

Address: B. P. 2912, Brazzaville, Rep. du Congo. (Pecolatto-ITA/DSWCI DX Window)

CUBA Frequency change for *Radio Havana Cuba*:

0500-0700 NF 9655* ex-11760 // 9550 9820

(Observer-BUL)

GERMANY Updated A-04 schedule for DTK T-systems:*Athmees Yatra He/Gospel For Asia (GFA)*:

0030-0130 SEAs langs 9495W
 1430-1530 SEAs langs 15775W
 1530-1630 SEAs langs 15660W
 2300-0030 SEAs langs 9560W

Radio Free Asia (RFA):

0100-0300 Tibetan 11975W

Voice of Russia (VOR):

0100-0200 En WS 5945J
 0200-0300 Ru Inter.Radio 5945J
 1400-1500 Ru Commonwealth 15430J
 1900-2100 Ru Inter.Radio 5985J
 1900-2100 Ru Inter.Radio 9825J
 2000-2100 Ru Inter.Radio 7260J
 2200-2300 Arabic 6145J

Hrvatska Radio/Voice of Croatia:

0100-0500 Cr/En/Sp 9925J
 0400-0700 Cr/En/Sp 9470J
 0600-1000 Cr/En/Sp 13820J
 2200-0300 Cr/En/Sp 9925J
 2300-0300 Cr/En/Sp 9925J

Radio Netherland/Weldomroep (RNW):

0600-0700 Dutch 11655J to 9/1

Brother Stair/The Overcomer Ministries (TOM):

0600-0800 English 6110J
 1300-1500 English 6110J 13810J
 1700-1900 English 17550J

Deutsche Welle (DW):

0600-1000 English 6140J
 1000-1200 En DRM 6140J
 1200-1300 Ge DRM 6140J
 1300-1600 English 6140J
 1600-1800 En DRM 6140J
 1800-1900 Ge DRM 6140J

Swiss Radio International (SRI):

0600-0800 Fr/Ge/It/Mx 15445J
 0600-0800 Fr/Ge/It/Mx 13650J
 1630-1815 It/Ar/Mx/Fr 13750J
 1630-1815 It/Ar/Mx/Fr 15515J
 1830-2130 It/Ar/Mx/Ge/Fr 11815J
 1830-2130 It/Ar/Mx/Ge/Fr 13645J

Radio Chan Troi Moi/Radio New Horizon:

1330-1430 Vietnam.17595J [may be on MW only-AQ]

Radio Liberty (RL):

1500-1700 Beloruss.9565J
 1500-1700 Russian 11885J

HCJB (The Voice of Andes):

1700-1800 German 6015W

WYFR (Family Radio):

1700-1800 Turkish 11785J
 1700-1800 Arabic 13720J
 2000-2100 French 13590J
 2000-2100 Arabic 13855J

IBRA Radio:

1730-1800 Somali 15450W
 1730-1830 Swahili 15695J
 1830-1845 English 15695J
 1900-2015 Hausa 9675J
 2000-2100 Arabic 7340J

CBS Radio Taiwan International (RTI):

2000-2100 Spanish 5960J

Democratic Voice of Burma (DVOB):

2330-0030 Burmese 9435J

Pan American Broadcasting (PAB):

0030-0100 English 9740J Su
 0130-0145 English 9495J Su
 1400-1430 Arabic 15650J Su
 1400-1430 Persian 15650J Sa
 1430-1500 English 15650J Sa
 1500-1515 English 15650J We/Su
 1545-1600 English 15650J Su

Universal Life (UNL):

0100-0130 English 9485J Su
 1100-1200 German 6015J Su
 1130-1200 German 6015J Sa
 1600-1630 French 15265J Su
 1800-1830 English 15675J Su
 1900-1930 English 13820J Su

Adventist World Radio (AWR):

0500-0600 Bulgarian 11655J
 0900-1000 Italian 11775J Su
 1900-1930 Arabic 15175J
 1930-2000 Arabic 15175J Mo/We
 1930-2000 Kabyle 15175J Th/Su
 1930-2000 Tachelhit 15175J Tu/Fr/Sa
 2000-2030 French 15175J

VRT Radio Vlaanderen Internationaal (RVI):

0500-0655 Dutch 9590J
 0700-0725 English 5985J
 1730-1755 English 9925J
 1800-1855 Dutch 9925J
 1800-1955 Dutch 5910J Sa

RTBF:

0500-0710 French 17580J Mo-Fr
 0500-1000 French 17580J Sa/Su
 1000-1130 French 21565J
 1430-1805 French 17570J Mo-Fr
 1500-1705 French 17570J Sa/Su

Trans World Radio (TWR):
 0530-0545 Slovak 7210J Mo-Fr
 0830-0845 Hungar. 6105J 7210J Tu-Sa
 1030-1100 Slovak 7225J Sa
 1030-1100 Slovak 9490J Sa
 1230-1245 Slovak 5945J Mo-We/Fr/Sa
 1230-1245 Slovenian 5945J Th/Su
 1600-1630 Romani. 6105J 7240J Sa
 1630-1700 Hungar. 6105J

Evangeliumsradio Hamburg:
 0900-1000 German 6045J Su

Christian Science Monitor (WSHB):
 0900-1000 German 6015J Su
 1800-1900 Russian 9655J 2nd&4th

Evangelische Missions:
 1030-1100 German 6015W Sa/Su
 1100-1130 Russian 15225W Sa
 1500-1530 Russian 9635W Sa

Voice of Democratic Eritrea:
 1400-1430 Tigrina 5925J Sa
 1430-1500 Arabic 5925J Sa
 1500-1530 Tigrina 15715J Sa
 1530-1600 Arabic 15715J Sa
 1700-1730 Tigrina 15670J Mo/Th
 1730-1800 Arabic 15670J Mo/Th

Maeva FM International:
 1200-1500 Dutch 6015J Sa

TDP Radio:
 1500-1600 Mx-DRM 6015J Sa

Radio Rhino International Africa:
 1500-1530 English* 17870J Mo-Fr

Bible Christian Association/BCA/:
 1530-1600 Polish 6055J Su

Voice of Ethiopian Salvation:
 1600-1700 Amharic 15670J Th/Su

Radio Huriyo:
 1630-1700 Somali 15670J Tu/Fr

Voice of Oromo Liberation (Sagalee Bilsum-maa Oromoo):
 1700-1800 Somali 15670J Tu/We/Fr/Su

Radio Free Syria:
 1800-1900 Arabic 13650J Su
 1900-2000 Arabic 13650J Su

Radio Reveil Paroles de Vie:
 1830-1900 French 15675J Th

Voice of Democratic Path of Ethiopian Unity:
 1830-1930 Amharic 15565J We/Su

Bible Voice Broadcasting Network (BVBN):
 0000-0100 English 6010W Mo-Fr
 0700-0815 English 5905J Sa

0700-0845 English 5905J Su
 0715-0745 English 5905J We-Fr
 0845-1015 Arabic 17595J Fr
 1500-1600 Urdu 17510J Tu
 1500-1600 English 17510J Sa
 1515-1800 English 15715J Su
 1530-1600 Hindi 17510J Tu
 1530-1600 English 17510J Mo/We/Th
 1545-1615 English 15715J Mo-Fr
 1545-1800 English 15715J Sa
 1615-1630 Hebrew 15715J Tu/Th
 1615-1730 Arabic 15235J Mo/We/Fr
 1630-1700 English 13810J Tu/Fr/Sa/Su
 1630-1700 English 15715J Tu/Th
 1630-1730 English 13810J Mo/We/Th/Sa
 1645-1715 Russian 15715J Tu
 1700-1730 Arabic 15235J Tu/Th
 1700-1730 Tigrina 13810J Tu/Fr
 1700-1800 English 15715J We/Fr
 1700-1800 English 15235J Sa/Su
 1800-1815 English 11965J Sa
 1800-1830 English 5970J Su
 1800-1845 Russian 5970J Su
 1800-1900 Arabic 13710W Th
 1800-1900 English 13710W Sa
 1800-1900 Persian 11965J Su
 1800-1915 English 13710W Fr/Su
 1815-1830 Russian 5970J Mo-Fr
 1815-1830 Persian 11965J Sa
 1830-1845 Dari 11965J Sa
 1830-1900 Russian 5970J Su
 1845-1930 English 5970J Sa
 1900-2000 English 9425J Sa
 1915-1945 English 9425J Fr
 1930-2000 English 9425J Su
 1945-2015 English 12050W Fr

J=Juelich

W=Wertachtal

(Observer-BUL)

INDONESIA 3976.06 **RRR Pontianak**, 1218-1245+. Jakarta program in progress, // 4750. Back to local studio at 1229; M announcer says "Radio Republik Indonesia Pontianak dengan acara...di Kalimantan Barat" followed by subcontinental vocal music, then M chatting at 1236; slowly fading, but did note Islamic programming beginning at 1245 7/26 (John Wilkins-CO/Cumbre DX/DX Listening Digest/Hausser-OK)

IRAN Updated summer A-04 schedule for **VOIROI/IRIB**:

0030-0127 Spanish 9655 9905 11610
 0030-0127 Bengali 9855 9890
 0100-0227 Tajik 9740
 0130-0227 Urdu 7130 11880 11965
 0130-0227 Spanish 9655 9905 11610
 0130-0227 Kazakh 11665 11935
 0230-0257 Uzbek 9740
 0230-0257 Hindi 15165 17635
 0230-0327 Spanish 9905

0230-0327	Pashto	7130 9605
0300-0327	Russian	9650 11925
0300-0327	Armenian	11860
0300-0627	Dari	13740
0330-0427	Swahili	15265 15340
0330-0427	Kurdish	11920
0330-0427*	Arabic	9610 11875
0330-0527	Azeri	13710
0330-1157	Arabic	13790
0430-0457	Hebrew	9610 11875
0430-0557	Turkish	15260 15365
0500-0527	Russian	11870 15215 17595
		17660
0530-0627	Spanish	15530 17785
0530-0627	Bosnian	15235 15340
0530-1627	Arabic	15150
0600-0657	Hausa	17810 21810
0630-0727	Albanian	15235 15340
0630-0727	French	17560 17590
0730-0827	Pashto	15440
0830-0927	Swahili	17660 17690
0830-0927	Bengali	11705
0830-1157	Dari	13720
0930-0957	Armenian	9695 15260
1030-1127	English	15600 17660
1200-1257	Chinese	17535 21460 21490
		21630
1200-1457	Dari	9910
1230-1327	Malay	15200 17555
1230-1327	Pashto	6175 9790 11730
1300-1327	Japanese	15555 17810
1300-1357	Kazakh	11665 13755
1330-1427	Kurdish	5990
1330-1427	Urdu	6175 9665 11695
1430-1527	Hindi	11695 12030 13805
1430-1527	Russian	7165 9580 9900
1430-1527	Pashto	7270
1430-1527	Bengali	7305 9520 9810 12015
1430-1627	Kurdish	5990
1430-1657	Azeri	6200
1500-1557	Uzbek	5955
1530-1627	English	9635 11650
1530-1727	Urdu	7270
1600-1727	Turkish	7165 9915
1600-1727	Tajik	5955
1630-1727	Armenian	7230 9780
1630-1727	Pashto	6015 7195
1630-1927	Arabic	9935
1700-1757	Russian	6210 7175
1730-1757	Urdu	7220 9530
1730-1827	Swahili	9655 11995
1730-1827	Bosnian	7295 9835
1800-1857	Russian	6205 7260
1830-1927	Hausa	11860 11930
1830-1927	Albanian	9545 9570
1830-1927	French	13755
1900-1927	Hebrew	3985 5970
1930-2027	English	9800 11750
1930-2027	Russian	3985 7175
1930-2027*	Arabic	9935
2030-0527	Arabic	9935

2030-2127	Spanish	9650 11760
2030-2127	Albanian	9535 11775
2130-2227	Bosnian	9810 11875
2230-2327	Malay	9685 9830
2330-0027	Chinese	11735 12000 13715

* Voice of Islamic Palestinian Revolution
(Observer-BUL)

ITALY Some frequency changes of *RAI International*:

0055-0115	English	DEL 9675
0055-0115	Spanish	DEL 12030
0115-0130	French	DEL 9675
0115-0130	Portug.	DEL 12030
0130-0315	Italian	DEL 9675 and 12030
0315-0335	Spanish	DEL 9675 and 12030
0345-0405	Russian	DEL 7235
0405-0425	Ukrainian	DEL 7235
1500-1525	Italian	NF 11855, ex-11925
1630-1655	Arabic	NF 11700, ex-9645 and DEL 11665
1700-1800	Italian	DEL 9730
1805-1825	German	NF 6110, ex-5990
1820-2020	Italian	DEL 9605 11890 17735 17780 21550 Sa
2000-2020	Russian	NF 9700, ex-9670
2000-2020	Swedish	NF 9890, ex-9745 Mon/Wed/Fri
2000-2020	Danish	NF 9890, ex-9745 Tue/Thu/Sun
2000-2020	Esperant.	NF 9890, ex-9745 Sat
2025-2045	English	DEL 9670
2050-2110	Portug.	DEL 9670
2230-0055	Italian	DEL 9675 and 12030

(Observer-BUL)

ROMANIA Some frequency changes of *Radio Romania International*:

0000-0056	Spanish	NF 15510, ex-9575
0200-0256	Romani.	NF 11895, ex-7175
2030-2056	Italian	NF 9620, ex-9580
2130-2156	English	NF 11750, ex-17735

(Observer-BUL)

RUSSIA Additional frequencies for *Voice of Russia*:

1400-1500	13860	Ru Inter Radio
1500-1530	11840	Albanian // 15290 13740 12060 7300
1500-1700	13860	Ru Commonwealth
1530-1700	11840	Serbian // 15290 12060 7300
1700-1800	11840	Italian // 12000
1700-1800	13860	World Sce

WYFR via CIS transmitters:

1700-1900	Russian	9495 TAC 200 kW
1900-2000	German	7360 ERV 500 kW
1900-2000	Italian	9490 MSK 250 kW
1900-2000	Spanish	7350 MNS 150 kW
2000-2200	English	7350 KCH 500 kW

ERV=Gavar/Yerevan, Armenia

KCH=Grigoriopol, Moldova

MNS=Minsk, Belarus

MSK=Taldom/Moscow, Russia

TAC=Tashkent, Uzbekistan

(Observer-BUL)

SLOVAKIA Radio Slovakia International announced it will be on shortwave to the end of 2004 and then will try for more funding. Hope that funding is found! 73s (Bill Bergadano-NJ/DX Listening Digest/Hauser-OK)

SWITZERLAND Swiss Radio International is to cease all radio broadcasts at the end of October, and will thereafter concentrate exclusively on its Internet platform, www.swissinfo.org.

Starting 1 August, a special series of radio programmes will look back at key events that have shaped SRI and Switzerland over the past seven decades.

SRI ended its news and current programmes in April, but broadcasts are continuing on shortwave and satellite until the end of October.

During our last 12 weeks on air, we will be broadcasting a special half-hour programme each week to recall highlights since SRI first hit the airwaves in 1935.

In the week starting 1 August, listeners can hear how SRI evolved from the Swiss shortwave service—which went on air for the first time on 1 August 1935—into [swissinfo](http://www.swissinfo), which went online in 1999.

Assignment Switzerland

Other programmes in the "Assignment Switzerland" series will profile personalities who shaped the country, the four Swiss cultures and the Swiss living abroad.

We'll also be looking back at key events in politics, science and technology and the arts, and finding out what outsiders think of Switzerland.

The final programme in the series will look at how Swiss views of their own country have changed over the past half-century.

We do hope you will tune in to remember SRI's nearly 70 years on air. You can also listen to the programmes online each week by clicking on "In Focus" in our multimedia section. ([Swissinfo web site](http://www.swissinfo)/BBCM/DX Listening Digest/Hauser-OK)

[Sad, really...-AQ]

TAJIKISTAN 4635 Tajik Radio 1, Yangiyul, is broadcasting in Tajik 0430-1000 and 1400-0400, in

Russian 0400-0430 and 1000-1030, and in Uzbek 1030-1100. (Petersen-DEN and Shukhrat-UZB/DSWCI DX Window)

THAILAND 6150 Or Sor (Amphorn Sathan) is not active on SW, still active on MW 1332. I guess they will not reactivate 6150 again as Singapore is strong on this frequency even on day time, here in Bangkok. In the past years Or Sor's signal was not very strong even in Bangkok region. (Waga-THA, Jul 14/DSWCI DX Window)

TURKMENISTAN 4930 Türkmen Radio 2, Asgabat, is broadcasting 0100-2300 in Turkmen, except at 1630-1645 in English. 5015, **Türkmen Radio 1**, Asgabat, is broadcasting 0000-2000 in Turkmen, except 1500-1510 in English. (Shukhrat-UZB/DSWCI DX Window)

UNITED KINGDOM Internews Radio / Salaam Watandar in Pashto and Dari via Merlin:

0130-0300 11795 DHA 250 kW
1330-1500 17700 RMP 500 kW

DHA=Al-Dhabbaya, UAE

RMP=Rampisham, UK

(Observer-BUL)

UNITED STATES OF AMERICA Radio Liberty and Voice of America changes:

0500-0600 RL Geor. 9850, ex 0400-0500 on 9595
1530-1600 VOA Gg. 11805 15475 17870, ex
1430-1500 on
11935, 15185, 17810
1600-1700 RL Geor. 15285, ex 1500-1600 on
17725

(Observer-BUL)

KNLS, Alaska to August 29:

0800	English	11765
0900	Russian	11765
1000	Mandarin	11765
1100	Russian	9795
1200	Mandarin	11765
1300	English	11870
1400	Mandarin	11870
1500	Mandarin	9615
1600	Mandarin	9615
1700	Russian	9615

(KNLS web/via JKB, WWDXC/DX Listening Digest/Hauser-OK)

WRMI frequency change: The FCC has authorized us to go to 6870 kHz. Assuming the crystal gets here in time and works properly, and so on, we will plan to make the change this coming Saturday night, July 31 (actually 0230 UT Sunday). All the best (Jeff White, WRMI, July 26/DX Listening Digest/Hauser-OK)



Pirate Radio Report

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

Hello and welcome to the August 2004 edition of the *Pirate Radio Report*. Since the 4th of July, there has been little activity and the large sunspot that appeared on the sun the end of July hasn't helped matters either.

Loggings

Many thanks to the "Two Georges", George Maroti and George Zeller for this month's crop of logs. Also we want to wish George Zeller's mom a quick recovery from a stroke she recently suffered.

Europirate "Mystery Radio" is the name of the 6220 kHz Europirate that pops up now and then. Heard on 3rd of July from 2300 well into the morning of July 4th. This time it was running in // with 6280 kHz. The ID as "Mystery Radio" was heard by some. It has no connection to the Texas based "Mystery Radio" which was busted by the FCC in October of 1998. [Maroti-NY & others].

Big Thunder Radio, noted on July 6th at 0115. Rock music, song about the "Gates of Eden", station ID by a woman. Blues music and an email address were noted on 6925 kHz USB. [Lobdell-MA]

Captain Morgan. Noted on July 6th at 0156 UTC playing the Paul Simon tune Kodachrome on 6925 kHz USB. Mentions of a song contest. Audio was a bit overdriven so that made it a bit hard to understand.

Grasscutter Radio, the "yeahhh mannnn" station, noted right after Sunshine Radio left the air. Heard on 6925 kHz USB from 0036-0056 sign off on July 12th. Usual rock. [Lobdell-MA]

Radio Free Speech noted on 6925.4 AM from 2254-2320 sign off on July 3rd with an SIO=242. Program of mainly parody ads and free speech advocacy by Bill O. Rights, announced as a 4th of July pro-

gram. Thanked P. J. Sparx for years of good programming, and also mentioned other pirates and DXers. YLs sing Ken-L-Ration dog food jingle. Offers QSLs and bumper sticker for reports to Belfast. Modest level but audible. [Zeller-OH] Probably the "grenade" transmitter.

Sunshine Radio with the YL with the Southern drawl, noted at 2305 UTC on 6925 kHz USB on July 11th, playing the usual collection of oldies from the 50s and 60s. [Lobdell-MA]

WBMR-Black Mountain Radio, heard with a drifts USB signal on July 18th from 0310 past 0325 on 6925 kHz USB. Irish music, Beavis and Butthead sound clips were thrown in for good measure. [Lobdell-MA]

WHYP aka The James Brownard Memorial Station continued to be most widely heard pirate in the month of July when he fired up his Valiant AM transmitter. Noted on July 4th at 0023 signing on with the usual "Whip It" pop song on 6925 kHz AM, then noted on July 5th at 0031 UTC with "Whip It". Guest appearance by Captain Ganja. Was announced as "Appreciation Show #8". Lastly WHYP was heard at sign on on July 26th at 2319 with a live broadcast, complaining about the solar flares and fading into the static by 2330 on 6925 kHz AM. [Lobdell-MA] 6925 AM 0025-0125* 7/4/04 SIO=242. Various rock mixed w/Brownard and Bozo noises in an Independence Day bcst. A brief 30 second segment was in Spanish. Ad for WHYP hemorrhoid cream. Anderson on the Run to the tune of Band on the Run. Jerry's Farm rock parody also. Cameo IDs by Big Mike of WBIG and also by Moe Howard. Providence addr. Closed w/George Zeller segment about the worst shortwave pirate in history, which was so bad that it was entertaining. [Zeller-OH]

Happy Pirate DX!



QSL Report

Sam Barto • 78 Blakeman Road • Thomaston, CT 06787

LRA 36
via D'Angelo
RADIO NACIONAL
-ARCANGEL SAN GABRIEL-

QTH 9411 Base ANTARTICA ESPERANZA
TERRITORIO ANTARTICO ARGENTINO
REPUBLICA ARGENTINA

UBICACION GEOGRAFICA

-Lat 63°	24' Sur
-Long. 56°	59' Oeste

QTH



ARMENIA: Radio Free Asia 9365 f/d "Dalai Lama" cd. w/0 site in 9 ds. (D'Angelo-PA).

ASCENSION ISLAND: Voice of America 7160 f/d "IBB Transmitting Station" cd. in 129 ds. v/s John Vodenik at Delano site. This was rcvd. after a previous reply from D.C. (D'Angelo).

CHINA, PEOPLE'S REPUBLIC OF: Nei Menggu

People's Broadcasting Station 4620 f/d cd. in 19 ds. via **China Radio International**. (Paszkiwicz-WI). **China Tibet People's Broadcasting Company** 7385 frequency only form ltr. in 208 ds. Station seems to encourage suggestions and ideas and mentions that the "Holy Tibet" English program can be heard at 1100-1130 UTC. Addr: Foreign Affairs Office,

China Tibet Peoples Broadcasting Company, 850000 Lhasa, People's Republic of China. (D'Angelo)

CLANDESTINE: Radio Rhino International 17555 (letter lists 17880) via **DTK Julich** orange paper form ltr. rcvd. in 220 ds. v/s Godfrey Ayoo, Director of RRIA, who states "on behalf of a sinking boat of Humanity whose boat has been torn apart by one of Africa's most dangerous Political Sharks in Uganda bred and sustained by certain Western imperialists and establishments to continually keep Uganda and Africa in a perpetual state of civil war, sickness, poverty, illiteracy, etc." Ah, I miss great radio station phrases like that which were quite common during the



25
*Siendo la voz y el sentir
de nuestros pueblos*

Jaén, 16 de enero de 2002

Sr. John Sgrulletta
337 Bullet Hole Road
Mahopac, NY 10541-2605
U.S.A.

Estimado John:


Recibe el saludo cordial de todos los trabajadores y trabajadoras de Radio Marañón. Esta carta tiene como objetivo agradecer su informe de recepción de nuestras transmisiones en Onda Corta.

Nos agrada mucho que Ud. nos confirme que la señal de nuestra emisora llega a su país. Le enviamos muchos saludos y le pedimos que los haga extensivos a su familia.

Junto a esta carta le enviamos una tarjeta QSL, un almanaque de oficina y tres calendarios de bolsillo que esperamos sean de su agrado.

Le invitamos a seguir en sintonía de nuestra emisora y a seguir en contacto con nosotros. Mucho le agradeceremos que nos confirme la llegada de esta carta escribiendo un e mail a la siguiente dirección: mrusiche@radiomaraanon.org.pe

Atentamente,


Marco Rusiche Parizaca
Periodista
Radio Marañón
Jaén - Perú

Radio Sonder Grense

thanks you for your reception report on their transmission from the Meyerton Transmitting Station

Date: 17 June 2002 Time (UTC): 13:18

Frequency: 3320 kHz

SENTECH

(Pty) Limited
Private Bag X06
Honeydew 2040
South Africa

Kathy Cuth

Top of Mail - Johannesburg Transmitting Station

Scott R. Barbour Jr.

P.O. Box 393

Intervale

N. H. 03845

USA

cold war days. (D'Angelo-PA). Maybe this guy wasn't breast feed when he was a child. I believe he once had a program on RFPI a while back.

CYPRUS: Cyprus Broadcasting Corporation 6180, 7205 and 9760 f/d "Studio Complex" cd. in 26 ds. Addr: P.O. Box 24824, Nicosia. (D'Angelo).

ASIATIC RUSSIA: Bible Voice Broadcasting 12065 via Krasnodar f/d "Map / Logo" cd. w/ site in 63 ds. from the Canadian address for a rpt.

sent to the UK address. (Barbour-NH).

BELARUS: Radio Minsk 7105 hand written f/d verie w/ station seal on the back of a blue and white "Radio Minsk-Senderpan fur Duestchsprachige Programme" paper with the notation that a rpt. should contain more details! Also rcvd. stickers, boys choir RS pocket calendar and a large cd. w/ picture of the Belarus studio building w/ DX-Radio Minsk" ink stamp inside. All in 80 ds. for 1 IRC. v/s Stas Lokinsk, Editor. (Barbour-NH).

ENGLAND: Radio Napa -

* **Merlin** 9915 finally QSLed the 1998 XMAS broadcast after a few f/up rpts. in nearly 1983 ds. or 8 ds. after my last e-mail rpt. v/s Nathan Morley, Programme Controller who apologized for the length of time it took to respond to my rpt. He mentioned that they are the local replay station for the BBC World Service in Cyprus. (D'Angelo-PA). **Radio**



* **Ndeke Luka** 15545 f/d cd. in 12 ds. via the Swiss address. (Paszkiwicz-WI). **Sudan Radio Service** 11665 n/d ltr. in 11 ds. via the Kenya address. (D'Angelo-PA).

GERMANY: Bible Voice Broadcasting 15680 via **DTK Juelich** f/d "Map / Logo" cd. in 63 ds. (Barbour-NH). 9690 f/d cd. in 12 ds. after a reply was rcvd. via e-mail. (D'Angelo-PA). 6010 via **Wertachtal** f/d cd. in 12 ds. (D'Angelo-PA).

GOA: All India Radio via **Panaji** f/d "Ellora Cave 32" cd. in 4 mos. for \$1.00. My rpt. was sent and rcvd. via Delhi. (Howard-CA).

GUYANA: Voice of Guyana 3291 p/d ltr. on GBC letterhead in about 5 yrs. Also rcvd. a profile data sheet on the country. (Price-VA).

INDIA: All India Radio 4775 via **Imphal** verified a f/up rpt. in 108 ds. w/ f/d cd. of the "Red Fort, Delhi". v/s A.K. Bhatnagar. (D'Angelo-PA). 15075 and 13695 via **Bangalore** frequency only ltr. from R. Narasimha Swamy, Superintending Engineer in 39 ds. for a rpt.

Q
S
L



Radio Christian Voice

Dear Friend,

Thank you for letting us know that you received our transmission.

We confirm that you heard us on:
Date: 17 June 2002
Time: 07:15 - 07:33 UTC
Frequency: 4965 kHz
Transmitter: Continent 145E

We really appreciate your interest and look forward to hearing from you again. More information about us can be found at:
<http://www.christian-vision.org>

Radio Christian Voice (Zambia) Ltd
Private Bag 2600, Lusaka, Zambia

R. Barbour Jr.
P.O. Box 393
Intervale, N.H.
03845 USA

Verification Card (QSL)

Dear John Sgrulletta:

We are pleased to verify your reception of Radio Voice of Iraq, Kurdistan

Date of Reception: 2-6-01

Time: 04.18 hours Local/UTC to 04.49 hours Local/UTC

Frequency: 5960 kHz which is 51,19 meters

Transmitter Power: _____ kW. Transmitter Location: Erbil-Kurdistan of Iraq

Furhad Barzani
Signature

Furhad Barzani
Official Seal
KDF representative
in Washington

sent direct to the station at Super Power Transmitters, AIR, Yelahanka New Town, Bangalore - 560 064, India. A copy of my rpt. and the ltr. was forward to the Director General in New Delhi to issue the QSL cd. (D'Angelo-PA).

MEXICO: XERTA 4810 flag cd. in 3 mo. for \$1.00. (Howard-CA).

SAINT HELENA: Radio Saint

Helena 11092.5 f/d "Map" cd. indicating their final transmission in 1666 ds. from Ralph H. Peters, Station Manager. This was rcvd. due to the efforts of Robert Kipp and the DSWCI for helping belated verifications possible. This was my second QSL for this broadcast with the initial reply coming from retired Manager Tony Leo in 944 ds. The final broadcast in October 1999 resulted in 730 reception reports! (D'Angelo-PA).



РАДИО ГОЛОС РОССИИ
RADIO VOICE OF RUSSIA

SLOVAKIA: Radio Slovakia International 5930 f/d "Radio Bratislava" cd. in 22 ds. for an e-mail report. The details on the cd. look computer generated. I wonder if e-mail rpts. via RSI's website are automatically answered via computer and not seen by human eyes. (Barbour-NH).

NOTES: George Glotzbach and others like the idea of some sort of recognition going to Walter Brodowsky for his service to the SWL community. Sheryl Paszkiewicz hopes my wife and I are enjoying our new home. We sure are...Sam. Scott Barbour says the same. Thank you...Sam. Scott also says that he is enjoying his new job.

அனைத்துலக ஒலிபரப்புக் கூட்டுத்துறமை



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UNITED ARAB EMIRATES:

Radio Free Asia 11975 f/d cd. w/o site in 9 ds. (D'Angelo-PA).

TAIWAN: Radio Taiwan International

11550 blank "Matsu in Da-chia" cd. w/ schedule, newsletter, and bookmark in 34 ds. for 1 IRC. (Barbour-NH).

USA: WWRB 12172 f/d "Certificate" in 605 ds. This is my 117th ecclesiastic QSL. Soon these may be our only new SW outlets. (Glotzbach). 5050 f/d "Certificate" in 10 mos. after several f/urp rpts. (Paszkiewicz)

Dear Mr Mark Alexander Humenych

The International Broadcasting Corporation - Tamil verifies your report of reception of our short wave transmission directed towards Sri Lanka and India on the date and at the time specified below.

DATE: 4 July 2000
TIME: 23:58 GMT to 00:58 GMT
FREQUENCY: 25 m 11570 KHz

Many thanks for listening to IBC Tamil. We wish you luck with your short wave monitoring.

Yours Sincerely

K.Pillai

IBC Tamil

EPT

ΕΛΛΗΝΙΚΗ ΡΑΔΙΟΦΩΝΙΑ ΤΗΛΕΟΡΑΣΗ
ΕΛΛΗΝΙΚΗ ΡΑΔΙΟΦΩΝΙΑ ΤΗΛΕΟΡΑΣΗ
HELLENIC RADIO TELEVISION



«Η ΦΩΝΗ ΤΗΣ ΕΛΛΑΔΟΣ»
«THE VOICE OF GREECE»



ΜΗΧΡΟΒΑΣΕ / MICROBOLUS
Athens



6890 same f/d "Certificate", making the rounds in DXers mailboxes, w/ stickers. This in 856 ds. for SASE (not used) v/s Angela Frantz. What's up with the new DXer/QSL friendly attitude? (Barbour-NH).

USA (Pirates):

Voice of Captain Ron Short-

wave 6950 verified via a rpt. to ACE or Free Radio Weekly w/ a f/d 9 x 10 square inch piece of magic marker covered packing cardboard "card" in 6 mos. Also rcvd. pirate hat. (D'Angelo-PA). Ironman Radio 6925 f/d cd. #43 from Scruffy Swab in 1 mo. for a rpt. to one of the above pirate sites. Also rcvd. a two page "Ironman Radio Great Pirate Listener's Contest" results indicating the contest winner was John Arthur followed by Chris Lobdell and Al Milano. (D'Angelo-PA).
* Radio Joystick 9955 via WRMI f/d EG/GM cd. w/ stickers, info. sheet and a friendly personal ltr. in 13 ds. for \$2.00. Letter said my report was the first for a WRMI broadcast. v/s Charlie Prince. (Barbour) WBMR Radio Black Mountain Radio 6925 verified in 6 hours w/ date only

JPEG attachment of a female in a "BMR" tee shirt and a nice e-mail note from v/s Mike O. Farad. Station notes 2 transmitters and several antennas. Each broadcast costs them about \$30 worth of helium as they sometimes utilize a surplus weather balloon w/ a 700 foot longwire antenna. (D'Angelo-PA).

VIETNAM: Voice of Vietnam

* 5925 via Xuan Mai f/d "Map / Logo" cd. w/o site from the Hanoi office in 132 ds. for



GREETINGS FROM RADIO BOTSWANA
I AM PLEASED TO CONFIRM YOUR RECEPTION
OF OUR TRANSMISSIONS ON 4.970 MHz AT
0357 UTC ON 5-27-02. TO ASSIST
THEY YOU REQUEST OUR PROGRAMMES.
THANK YOU FOR YOUR REPORT 735 TED
MANAGER/RE - CHIEF ENGINEER - RB.

Published by Information and Broadcast
Press, 0060, Gaborone, Botswana.

RICHARD A. D'ANGELO
2216 Burkley Bri
Wyomissing, PA 19610
USA

An elephant's bill.



Printed by Government Printer, Gaborone, Botswana

\$1.00, English report and a completed VOV listener survey. I would like to think my answering their survey aided in Hanoi verifying this report. (Barbour-NH).

Going to end the QSL Column at this time. Sorry about some of the countries not being in order. I've got "stuff" everywhere. I moved over 700 boxes of my wifes "junk". Actually the move was from a 12 room historical colonial to a 6 room log cabin. Get the picture? Were going to have the biggest tag sale this town has ever seen.

QSL
ADVENTIST WORLD RADIO®
Verification of Reception
Thank you for your reception report which we are pleased to verify.
Station AGENT _____ Location SUVAH
Frequency LISTEN _____ Date 12-28-02
Power 100 _____ Time 12:45-1:05p
Signature _____

Big Ben from Parliament Square
2-42-02-38



Scott BARBOUR
hope you'll keep
in touch.
Take care &
God bless!
Quisile



Net Notes

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

Greetings from a very soggy central Burlington County, NJ. On July 12 it rained in Vincentown. On July 13 we were at the top of The Weather Channel national Leader Board with 13.5 in (34.3 cm) of rain in a 24-hour period. At least five surrounding towns made national headlines when the Rancocas Creek went out of its banks; 8 dams burst in Medford and Medford Lakes. FEMA opened three shops a week later. We're OK but others are not...

trsc.com/weblog/index.html#rain

News Outlets

Last month we reported on three Al Jazeera press service Web sites. In July we rolled these and 11 other new finds into a new ordered update -- alphabetical within region -- of the Press Agencies list posted on Radio Netherlands' Media Network pages at www.rnw.nl/realradio/hitlist/html/hitlist_press.html. Of the new ones, perhaps ENA-Ethiopia is the most intriguing find. And SUNA (Sudan) returned to the net as well, after disappearing in 2003.

In July we found pages for three Botswana newspapers, plus one each in Lebanon and Sudan. All are in English: trsc.com/links_media_newspapers.html. But I have not yet found a good news-paper replacement for the CPA in Iraq that closed its doors at the end of June.

Looking at the Web

Are you still using Internet Explorer as your Web browser? In late spring, the security vulnerabilities were blasted all over the business press. It was capped by the U.S. government's Computer Emergency Readiness Team's public warning strongly urging the use of another Web browser, other than IE.

We'll leave the bone-picking in the search engines to you, but "Cool Ways To Give IE the Boot" at www.wired.com/news/infostructure/0,1377,64216,00.html discusses 4 alternative browsers - an interesting read, indeed. And this article does not even mention our favorite cross-platform extendable Firefox - mozilla.org/firefox - browser that accepts plug-ins for blogs, IRCs, and RSS and ATOM news feeds (among other "goodies").

Digging in the mail

Paul Lannuier saw spots... really... no, not what some of you are thinking. While driving home one dusky day he could see Region 692 with the naked eye. See the proof at trsc.com/weblog/index.html#ptl.

Are you looking for a stand-alone Windows RSS (XML) news-reader software program? Although there are a number of apps to choose from with a range of prices, in our humble opinion the open-source FeedReader - feedreader.com - is very difficult to beat. It's only drawback is that it does not (yet) read the new ATOM format.

If you use the Mozilla or Firefox browser on any platform and would like a newsreader, get the SAGE browser extension that handles ATOM and RSS parsing. It is a free download from sage.mozdev.org.

Radio Netherlands, and undoubtedly other broadcasters, have XML "broadcasts." We will eventually figure out who provides the service and let you know.

Summer is marching on and we haven't had any fun yet. The SWLfest Web site will eventually get changed over and updates will be made to the other sites here. News first appears on the Weblog page at trsc.com.

Contributors' Page

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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
Ray BAUERHUBER, NY	Sony 2010, 23' vertical antenna
Jerry BERG, Lexington, MA	R8A 165' LW
Mike BRANCO, Islip, NY	No equipment listed
Rich D'ANGELO, Wyomissing, PA	TenTec R340, Lowe HF-150, DX Sloper
Bob FRASER, Belfast, ME	Sony ICF-2003 ICF-SW100S 2m LW
William McGUIRE, Cheverly, MD	DX-380
David MUEHLING, Portsmouth, NH	Sat 800, 40' long wire
Dale PARK, Honolulu, HI	ATS-803A, R5000, LW antennas
Sheryl PASZKIEWICZ, Manitowoc, WI	ICOM R-8500, NRD345, AOR LA-350
Claudio PERDOMO, ARG	Sony ICF-2010, LW



On the Short Waves by Jerry Berg

<www.ontheshortwaves.com> **Update, June 26, 2004**—Under "sw History on the Net," some new links under "Broadcasting Roots": Belfast, Maine Radio History <http://www.state.me.us/newsletter/dec2003/radio_free_belfast_maine.htm> Frank Conrad's Garage <<http://www.npr.org/programs/atc/features/2001/nov/garage/011130.garage.html>> Radio Row <<http://www.eht.com/oldradio/arri/2002-08/>> Netherlands Radio <<http://www.100jaarradiowetgeving.nl/>> And Sound of Spark—II <<http://tinfoil.com/>>

<www.ontheshortwaves.com> **Update, July 1, 2004**—Under "CPRV," "The CPRV Gallery," some "new" shortwave broadcast QSLs: CR6AA, Lobito, Angola, 1952; ZNS, Bahamas, 1944 (a country long absent from SWBC); R. Nacional de Bolivia; Station PRF5, Rio de Janeiro, Brazil, 1937 (a second QSL from this station); ZOY, Accra, Ghana (in 1945 known as the Gold Coast); medium-waver KGU, Honolulu, Hawaii, relayed via RCA-shortwave, 1938; RRI-Makassar, Indonesia, 1956; 2RO, Rome, Italy, 1934; R. Maldives, 1973; and XEFT, La Voz de Veracruz, Mexico, 1948.

<www.ontheshortwaves.com> **Update, July 9, 2004**—Under "Articles, Research, etc.," "Pot Pourri": Ever wonder what was on the shortwave bands in the 1940s? Here are copies of four NNRC "High Frequencies" shortwave sections from 1942, 1943, 1944 and 1945. Gustav Siegfried Eins-9545, Radio Saigon-11780, Radio Congo Belge-11720, Radio Centre Moscow-15750, VE9AI-9540, XGOY-11900... sigh! (If you have any difficulty viewing these .pdf files on-line, right click and save the file to disk and then view it offline.)

Tropical Band Loggings

Dan Ferguson • 12053 Kahns Road • Manassas, VA 20112 • troplogs@zerobeat.org

- 2380 **BRAZIL R. Educadora** (presumed) 0354-0414 6/29 Portuguese, Ballads and easy-listening music w/ quick blurbs (IDs?) by M b/w selections. Weak but steady signal over static. (Barbour-NH)
- 3172.69 **PERU R. Municipal**, Panao, M in hyper SS 1005-1011 (Wilkner-FL)
- 3215 **MADAGASCAR AWR** 0239-0302 7/6 Malagasy/EE rel talks by M w/wind/stringed instrumental bits, choral music, IS/ID in EE & Malagasy 0300. Poor at t/in w/ 3215-WWCR splatter, improved by t/out. (Barbour-NH)
- 3235 **BRAZIL Rádio Guarujá Paulista** 0310-0323 6/23, mix of PP vcls & talks by W anc. //5045. Poor. (D'Angelo-PA)
- 3306 **ZIMBABWE R. Zimbabwe** 0235-0325 6/29 M w/vernacular talks hosting a pgm of African vocals. ID as "Radio Zimbabwe" 0300 & 0307. Poor to fair while steadily improving. (D'Angelo-PA) 0322-0336 7/10, Vernacular/EE, continuous Afropop vocal and instl mx, presumed ID 0330 in Vernacular, then M in EE shouting, "...for the people!". Audible over static w/ occasional fades. (Barbour-NH)
- 3329.56 **PERU Ondas del Huallaga** Huanuco 0952 0A mx, good signal with some band noise (Wilkner-FL)
- 3965 **FRANCE R. Taiwan Intl** via Issoudin 2247-2300*, 6/21, Mandarin, lite ballads & pop mx, W b/w selections; off 2300 sharp w/o ID or anmts. Fair. (Barbour-NH)
- 4005 **VATICAN R. Vaticana** 0317-0330 7/6, Italian?, 2 W at t/in, choral music, distinct IS 0325, mx intro and M w/tlks over choral music. Fair, best in USB. (Barbour-NH)
- 4052.47 **GUATEMALA R. Verdad** 0540-0604* SS rel pgmg; Christian hymns. EE s/off anmts 0558 w/"Radio Truth" ID & addr. SS closing anmts 0559, NA. Fair-good. (Alexander-PA 6-16) 4052.5 0340-0357 7/10 SS; nice reception of rel ballads w/whisper-quiet M b/w selections. (Barbour-NH)
- 4387 **PERU R. Imperio** 0205-0232 7/20 SS church svc w/prayers & occasional W talk over; talk by M w/musical bits 0210, back to service 0218, more talks w/music. Weak but steady w/ mild static. (Barbour-NH)
- 4486 **PERU R. Frecuencia VH** (tentative) 0148-0200* 7/19 SS, mx w/M b/w selections; tent ID 0154, talks; then off 0200. Poor. (Barbour-NH)
- 4600.17 **BOLIVIA Radio Perla del Acre** Cobija (T), noted very weak signal 0000-0030 6/26 & 29 & 7/1, [usb UTE splatter ~ Civil Air Patrol ?] M in SS (Wilkner-FL)
- 4716.73 **BOLIVIA Radio Yura** Yura 0954-1015 slow melodic mx, good signal (Wilkner-FL)
- 4750 **SUDAN Radio Peace** 0237-0316 6/27, tuned in to the Spotlight program in English. Nice ID & fgy anmt 0244 by M: "We are broadcasting on 4,750 kHz in the 60 meter band. This is Radio Peace." After a brief mx interlude there was another ID: "This is Radio Peace." Then another rel px followed in an African language. At 0259 another ID "You are listening to Radio Peace on 4,750 kHz in the 60 meter band; more rel pgmg in an African language. Poor to fair reception. (D'Angelo-PA)
- 4755 **BRAZIL R. Educação Rural** (presumed), 0126-0150 6/18, M w/PP tlks b/w ballads, presumed "canned" ID 0144 w/ments of "kHz" and "onda corta", back to music. Audible under heavy static. (Barbour-NH)
- 4775 **PERU R. Tarma** 0245-0256* 7/20 lite SS mx, canned "Radio Tarma" ID 0247, fanfare w/full SS ID anmt by M w/echo vel effects, choral-like music w/ more M, organ music at s/off. Poor/fair over static. (Barbour-NH) 7/24 0235-0300 SS Andean vocals, M echo anmts, 0300 ID (Paszkie-wicz-WI)
- 4780 **GUATEMALA R Coatan** 7/24 0212-0230* SS variety of vocals, M ment Coatan, s/off routine, ID, booming in. (Paszkie-wicz-WI) 0240-0243* 6/23, caught M anc w/ SS ID & s/off anmts, then light instl mx; no NA. Poor to fair with heavy CODAR QRM. (D'Angelo-PA) 0218-0256* 6/26, mix of mx & SS tlk; full ID & s/off anmts 0254, lite instl mx. Fair with no CODAR interference tonight. (D'Angelo-PA)
- 4783 **MALI RTV Malienne** in FF 2334 6/24 P-F w/QRN. //s 4835 (Fair) and 5995 (v.weak). (M) w/tlk - presumed nx, ments. "Bamako." (Clar-NY)

- 4810 **MEXICO XERTA - R. Transcontinental de America** 0320-0346 7/10, M&W SS tlk, vcl selection; political and economic talk by two men. Fair signal by CODAR and a growl marred reception. (D'Angelo-PA) 0926-0940 7/12 S, contemporary rel mx & instls, quick ID 0937. Fair w/ "sweeper" QRM at varying s-levels. (Barbour-NH) Fairly good 0840 6/27 with rel mx & talk, LSB necessary to avoid noise blob on the high side. Prgmng available under "Transmision en Vivo" at <www.misionradio.com/index_archivos/Page508.htm> is // the on-air prgmng and about 8 secs behind. (Berg-MA)
- 4840 **INDIA AIR** Mumbai *0020-0033 7/14 opening with Hindi music to 0025 when a man began Hindi talk. At 0030 a woman gave English ID and news. Poor (D'Angelo-PA)
- 4875 **BRAZIL R. dio Difusora** Roraima 0325-0356* 7/24, continuous Brazilian pop vocals with full PP ID & fqy anmt 0346. More pop vocals to 0355 ID and s/off anmts by a man. Off without a National Anthem. Good. (D'Angelo-PA)
- 4904.17 **BOLIVIA R. San Miguel** Riberalta 0205-0225+ lcl mx, SS anmts, IDs. Fair. (Alexander-PA 6-20)
- 4910 **ZAMBIA R. Zambia** 0341-0352 7/3 Vernacular, Native choral-like vocal music, M at 0346 w/ tentative "Radio Zambia" ID in passing, back to vocal music. Fair/poor. (Barbour-NH)
- 4915 **GHANA GBC** in EE & vernacular 2353 7/15; fair w/QRN & distorted audio. (M) w/ "Radio Ghana" nx headlines - explosion in Iraq, ment. genocide in Rwanda into fqy/skcd anmt followed by choral anthem w/(M) talking from time to time over mx in vern. 2358*. (Clar-NY) 2219-2232, 6/21 Vernacular, W w/ talks; sounds devotional, choral music at 2229 followed by different W w/ weak audio and M w/ even weaker audio. Fair, poor at t/out. (Barbour-NH)
- 4925 **UNID** 0420-0440 7/3 Vernacular/SS, continuos choral-like chanting/vocal music w/ weak, brief M talks b/w selections. W at 0437 joined by M. No ID noted but the music sounds very African. Possibly Radio Nacional-Bata, Equatorial Guinea? Poor signal under static. (Barbour-NH)
- 4950.15 **PERU Radio Madre de Dios** Puerto Maldonado 1030 - 1045 seemingly the one in Spanish 7/ (Wilkner-FL)
- 4960.42 **PERU Radio La Hora** Cusco 1010-1035 "...cinco en la manana veinte minutos" by W, this parallel 4856.16 "programa de Radio la Hora...." by M, stronger signal 4856.16 (Wilkner-FL)
- 4965 **ZAMBIA The Voice** in 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)
- 4976 **UGANDA Radio Uganda** 0344-0407 7/23, M ancr in local language hosting a pop music program with ID 0357; 0400 EE nx by another man announcer. Fair. (D'Angelo-PA)
- 4985 **BRAZIL R. Brasil Central** 0014 6/22 fair w/QRN; M PP tlk into canned ID's, fqy anmt and slogans ("emissoras brasileiro do Brasil Central 4985 khz 60 metros. "). This was followed by the "Battle Hymn of the Republic," a man with impassioned tlk then "Taps" and echo efx ??? (Clar-NY)
- 4995.58 **PERU R. Andina** 0145-0257* OA folk mx, ID, SS anmts. Religious talk 0245. Weak-fair. Abrupt s/off. (Alexander-PA 6-6)
- 5010 **INDIA AIR - Thiruvananthapuram** *0016-0042 6/14, OC, IS 0018. Hindi vocal 0020, then M in Hindi; ID 0029:30, flute mx; M EE ID & nx 0035: "This is All India radio, the news." Fair. (D'Angelo-PA) 0020 6/22 poor in Hindi; choral anthem-like mx, then M tlk, presumed ID to flute mx at 0029. (Clar-NY)
- 5015 **BRAZIL R. Pioneira** 0103-0130* 7/16 M&W PP tlks, mx bits & countless prayers/"Santa Marias"; off 0130 w/no ID or anmt; poor, best in LSB. (Barbour-NH)
- 5030 **BURKINA FASO RTV Burkina** *0529-0545+ s/on w/lite instl mx; FF anmts 0530; Afr folk mx; good level but some splatter from Gene Scott on 5029.08. Also hrd 2340-2400* without the Gene Scott QRM. (Alexander-PA 6-16) 2340 6/15 FF & vernacular; P-F at peaks w/QRN; hi-Life mx, M tlk & "Radio Burkina" ID's between songs, presumed TC 2345. (Clar-NY)
- 5035.08 **BRAZIL R. Aparecida** 0028 6/30 PP, Brz vcls/ballads; W tlk, multiple ments "Sao Paulo." Slogans and promos, no ID hrd. but //9630 - stronger but w/severe QRM. (Clar-NY)
- 5500 **ERITREA V of Peace & Democracy** *0314-0330+ s/on w/Horn of Africa mx. Into Vern talk at 0317. Fair. //6350. (Alexander-PA 6-17)
- 5677.97 **PERU R. Ilucan** 0135-0237* OA folk mx, SS pops, anmts, promos, jingles, ads. IDs. S/off anmts at 0237 & off. (Alexander-PA 6-6)
- 5815 **DENMARK WMR** 0140-0155+ pop mx. ID at 0153. Poor signal in noise & deep fades but did manage to catch an ID. (Alexander-PA 6-17)
- 5890 **USA R. Thailand** relay via Delano, 0048-0102 6/29, EE/Thai, W w/ info re various Thai expos and conferences, sports nx and weather, ID/IS. 8 bells followed by "The time is 8 AM in the Kingdom of Thailand", IS and Thai ID and news. Fair/good. Everyone has their favorite DX "quirks", mine are local time checks. (Barbour-NH)

International Band Loggings

Wallace C. Treibel • 357 N.E. 149th Street • Seattle, WA 98155 • nwhikers@msn.com

- 5925 **GERMANY Bible Voice BC** relay via Juelich in EG 2237, choral mx w/children, bible reading about Book of Revelations, prayers to Iraq, vp with heavy QRM from WBOH 5920 (Barbour NH 6/14)
- 5995 **MALI RTVM** Bamako in FR 0600, IS, ID, tribal mx, children's chorus, g (Alexander PA 6/19)
- 59966v **PERU R Melodia** Arequipa in SP 0635, LA and OA mx, ancmts, ID's, p-f (Alexander PA 6/6)
- 6010 **CANADA R Sweden** relay Sackville in EG 0130, pop mx special, profile "Chef Rock" cookbook with recipes from Swedish rock artists, return of heavy metal group "Europe" and the "Backyard Babes", vg (Branco NY 6/22) in EG 0130, tlk re treatment of Guantanamo prisoners, vg (Bauernhuber NY 6/29)
- 6010 **COLOMBIA LV de tu Conciencia** in SP 0840, ID, still on the air despite loss of main xmtrs and their engineer who is recovering from eye surgery, hope for full power soon, QRM R Mil (Berg MA 7/11)
- 6025 **BOLIVIA R Illimani** La Paz in SP 0220-0245*, coverage of Argentina/Uruguay futbol match, jingles, ads, laser sfx, s/off ID and ancmts but no NA, p-f (D'Angelo PA 7/14)
- 6030 **GERMANY SWR Stuttgart 3** in GM *0400, home service, nx, some ads, pop mx sels, tlks by anchors, p-f during R Marti's silent period (D'Angelo PA 6/28)
- 6060 **ITALY RAI** Rome in IT 0025, tlks, ID's, DJ's hosting varied musical pgm, f-p w/QRM (Clar NY 7/8)
- 6130 **GERMANY R Free Europe** relay in Serbo-Croat 2351, rock mx, ID, abrupt off 2359 (Clar NY 6/19)
- 6155 **INDIA AIR** Delhi in Urdu 0015, s/on tone, IS 0013, fair at outset, //9595 weak signal (Berg MA 7/2)
- 6155 **BOLIVIA R Fides** La Paz in SP 0043, TC, ballads, phone tlks, ID's, slogans, musical effects and childrens' voices, poor w/QRM (Clar NY 6/22)
- 6190nf **BRAZIL R Nacional da Amazonia** in PT 2345, mx, tlks, upbeat prgmg, ID 2400, apparently a move from usual 6180, slogans, Brasilia QTH, fqys, nx, sports rpt, //11780 (Berg MA 7/1, Clar NY 7/2)
- 6200 **CZECH REPUBLIC R Prague** in EG 0100, nx, cmntry on election, g (Bauernhuber NY 6/11)
- 6973v **ISRAEL Galei Zahal (Defense Forces Radio)** Tel Aviv in HB 0020, tlks and Israeli pop vcls, phone-ins from listeners, fanfre 0100, ID, nx, f (D'Angelo PA 6/17, Clar NY 6/15)
- 7125 **GUINEA RTV Guineene** Conakry in FR 2247, tribal rhythms/vcls, lots of strings and drums, ID's, all but wiped out by V of Russia s/on at 2300 (Barbour NH 7/5, Clar NY 6/30)
- 7160 **CHINA China R Int** Kunming in Nepali 1425, subcont mx, //9600 Xi'an (Park HI 6/20)
- 7210 **BELARUS R Minsk** in EG 0218, feature on crime in Belarus, ID's, mx sel, TC, IS, multi-language ID's at 0230 and into pgm in Belarusian, fair w/some ham QRM (D'Angelo PA 6/23)
- 7255 **NIGERIA V of Nigeria** Ikorodu in EG/FR 0522-0625+, continuous lcl pop rx, ID's in EG, good signal until 0620 when modul dropped, OC after 0625, in FR at 0644 recheck (Alexander PA 6/20) in Hausa 2241-2300*, banter b/w 2 OM's, applause, mx, ID 2245, poor audio, NA, f (Barbour NH 7/14)
- 7270 **MALAYSIA RTM** Kuching in Vern 0943, tlks, mx sels, ID, pips 1000, f (Barbour NH 6/20)
- 7280 **ROMANIA RRI** Bucharest in EG 2307, PM Blair meets with IT premier, cmntry on econ relations b/w Romania and Ukraine, fair w/static crashes, //9590, 11940 (Clar NY 7/13)
- 7350nf **MOLDOVA WYFR** relay in EG 2110, "Open Forum" call-in, ID, promos, web info, fair w/static crashes and mild fades (Barbour NH 7/15)
- 7390 **RUSSIA V of Russia** via Vladivostok in EG 1436, story re experimental theater group in Kiev, UKR, fair reception w/deep fades (Park HI 6/20)
- 7415 **USA Radio Six Int'l** relay via WBCQ Kennebunk, ME in EG 0000, "Tony Currie Wireless Show", pop mx, ancmts, greetings to Berg and D'Angelo E-mailers, exc (Berg MA 7/1)
- 7450 **GREECE R Makedonias** Avlis in GK 2234, GK vcls hosted by DJ, ID, s/off ancmts at 2350 followed by orchestral NA, fair reception (D'Angelo PA 6/29)
- 7545 **UKRAINE R Ukraine Int.** Mykolaiv in EG 0015, cmntry on elections, ID, f (Bauernhuber NY 6/24)
- 9335 **NORTH KOREA V of Korea** Kujang in FR 1428, choral pop mx, ID, voice-overs during classical mx, fair signal w/RTTY QRM, //4405 (Park HI 6/20)
- 9445 **INDIA AIR** Bangalore in EG 2152, subcont mx, GOS ID, pgm note, fqy/skcd ancmt, nx at 2200 incl. item that new government has presented its first budget, f-g w/QRM, //9950, 11620 (Clar NY 7/8)
- 9525 **INDONESIA V of Indonesia** Jakarta in CH/EG 1104, YL w/tlks and ballads, full ID in EG at 1117 as "RRI Overseas Service", E-mail and web addresses, f (Barbour NH 6/21)

- 9560 **CANADA R Korea Int** relay Sackville in EG 0215, financial nx, mx, "Around The Town" celebrating arrival of summer, very good reception (Bauernhuber NY 6/11)
- 9565 **BRAZIL R Tupi** Curitiba in PT 0045, OM preaching, choir vcls, ID 0100, poor (D'Angelo PA 6/24)
- 9575 **MOROCCO R Medi Un** in FR 0010, tlk, ID's followed by a strange but compelling rendition in EG & AR of Joni Mitchell's "They Paved Paradise and Put Up a Parking Lot", f w/adj QRM (Clar NY 6/21)
- 9580 **YUGOSLAVIA Radio Serbia and Montenegro** via Bosnia relay in EG *0000, IS, ID, fqy, sked, local nx, good reception (McGuire MD 6/17)
- 9590 **HUNGARY R Budapest** in EG *0100, ID, "Hungary Today", nx, ment Slovakia, g (McGuire 6/18)
- 9600nf **TURKEY V of Turkey** in TK 2032, continuous mx, pips/ID 2100, nx, poor, //9460 (Barbour NH 7/7)
- 9605usb **LIBYA R Jamahiriyah**(p) in AR 2131-2158*, previously recorded Libyan service to Iraq w/recorded speech, many ments of Iraq, mx bits, more tlks re Iraq and America, p-f, //11180 (Barbour NH 6/28)
- 9625 **CANADA CBC Northern Service** in native language (Inuktitut?) via Sackville 2040, talks, chants, f (Bauernhuber NY 6/11)
- 9645 **BRAZIL R Bandeirantes** in PT 0927, canned ID's, tlks, pips 0930, phone #'s, f/QRN (Clar NY 6/24)
- 9650 **CANADA China R Int.** relay Sackville in EG 0950, speaker w/guest learning CH (Muehling NH 7/8)
- 9650 **VATICAN CITY VR** in Urdu 0023, IS, inspirational mx, tlk re Islam and Jesus, f-p (Clar NY 6/21)
- 9680 **THAILAND R Thailand** in EG 2030, chimes, nx, ID, chimes again 2045, poor (Alexander PA 6/18)
- 9720 **SRI LANKA Deut Welle** relay in EG *2201, nx re UN concerns abt Israeli nuclear capability and econ trouble for Russian oil company, ID, "News Link" for Asia, fair w/QRM and QRN (Clar NY 7/8)
- 97378 **PARAGUAY R Nacional** Ascuncion in SP 0900, ID b/w mx sels, f-g with xmtr hum (Barbour NH)
- 9770 **SRI LANKA SLBC** Colombo in EG 0037-0109, continuous instrum'l pop mx, TC/ID at 0100, pgm of oldies vocals followed, fair, //15748 very poor (D'Angelo PA 6/15)
- 9780 **TURKEY V of Turkey** in EG 1908, ID, review of new movie on Trojan War, fair (Fraser ME 6/14)
- 9830 **TURKEY V of Turkey** in EG *2200, fqy, sked, ID, national news, good (McGuire MD 6/11)
- 9875 **LITHUANIA R Vilnius** Sitkunai in EG 2347, discussion re higher education in the region and outlook for employment, fair/poor (Branco NY 6/19)
- 9880 **RUSSIA China R Int** relay via Moscow in EG 2212, "Real Time Metro" feature re problems caused by street vendors in Beijing, fair w/QRM (Clar NY 7/8)
- 9880 **RUSSIA V of Russia** via Armavir in EG 0324, "Musical Tales", "River of Time", pgm re Moscow Chamber Orchestra, ID's, contact info, fair w/fades, //9860 Vatican relay (Barbour NH 6/29)
- 9885 **SWITZERLAND SRI** Sottens in IT/EG 2320-0002*, t/in to end of IT pgm until 2330, into EG w/OM announc'g "This year marks the end of an era, all broadcasting will cease at the end of October", music in place of EG service w/ID's at 0040 and 0050, off in mid-song, g (D'Angelo PA 7/9) So sad!
- 9885nf **NEW ZEALAND RNZI** in EG 0835, "Mailbag", airing a 10th anniversary show, vg (Park HI 7/5) in EG 1214, nx re aid for flood victims, UV ray study on school children, wx rpt, TC, "National Radio" feature, ID's, "Late Edition" pgm re Catholic Church sex abuse scandal trial, f (Barbour NH 6/25)
- 9980usb **ICELAND AFRTS** relay via Reykjavik(p) in EG 1507, tlk re NFL and ESPN's power rankings, poor in EG 0238-0316, "Sports Byline", AP Network News 0300, other usual stand AFN pgm fare listed on their website, fair (D'Angelo PA 6/24) ED: //7590 listed. Apparently 9980 replaced ex-13855.
- 9900 **CHINA CNR** Beijing in CH 2203, presumed ad block, brief mx bits, fanfare w/talk-over, poor but readable under static (Barbour NH 7/1)
- 9915 **CYPRUS BBC** relay in AR 2300, ID, Big Ben chimes, rpt on Iraq, ment Israel, f (McGuire MD 6/25)
- 11635 **NETHERLANDS ANTILLES R Vlaanderen Int** relay via Bonaire in EG 2223, "Flanders Today", rpt on arts festival showcasing work from Ghent, ID's, f-g (Clar NY 7/8)
- 11725 **EGYPT R Cairo** in EG 2325, cmntry re creation of Palestinian state as "only solution" to problems in the Middle East, ID, pgm note, into Mid-East mx, fair w/usual distorted audio (Clar NY 6/23)
- 11755 **EGYPT R Cairo** in AR 0006, nx, several ments of Baghdad, ID's, into ME mx, fair (Clar NY 6/29)
- 11785 **BRAZIL R Guiaba** Porto Alegre in PT 0124, tlks by OM/YL, ID, lite mx. p-f (D'Angelo PA 7/11)
- 11820 **SAUDI ARABIA BSKSA** Riyadh in AR 2120, reading Holy Koran xmtd to Europe (Bauernhuber NY)
- 11850 **GUAM AWR The V of Hope** relay in EG 2131-2157*, ID, Wavescan edition #495 w/South American DX report by H. Nigro, //15130 Austria relay and 11980 also Guam (Perdomo ARG 6/27)
- 11865 **PORTUGAL Deut Welle** relay in GM *0000, IS, ID, rpt on Ronald Reagan's funeral, f (McGuire MD)
- 12005 **ECUADOR HCJB** Quito in EG 1200, "Morning in the Mountains", QRM Cuba 12000 (Fraser ME)
- 12055 **RUSSIA V of Russia** via Chita in VT 1250-1303*, mx sels, fqy, sked, s/off anmts, p-f (Barbour 6/21)
- 13605 **INDIA AIR** Bangalore in EG 2300-2330+, nx, ID, g, weaker on //11620, 11645 (Alexander PA 6/18)

- 13630 **AUSTRALIA RA** in EG 0009, Asia and Pacific nx, ID's, pgm note, cmntry on plan to run senate elections like a reality TV show and new legislation re graphic cigarette pack warnings, p-f (Clar 6/30)
- 13635 **ISRAEL V of Israel** Tel Aviv in HB 2327, trad & contemp Israel mx, ID, promos, jingles (Clar 6/30)
- 13685 **AUSTRALIA Voice Int** relay via Darwin in EG 1030, "Dock of the Bay", discussion abt the meaning of life, exc, //11955 fair (Berg MA 7/4)
- 13865^{usb} **ICELAND Rikisutvarpid** Reykjavik in IC 2313, ID's, nx, ment "Colin Powell" and "Sudan", YL/OM alternating items, mx bridge and s/off 2328 (Clar NY 7/10, Barbour NH 6/14)
- 15125 **INDONESIA RRI** Jakarta in IN 1118-1202, Indo ballads, pops, many ments Jakarta and Sri Lanka, Koran-like chants, tlks, mx bits, IS, ID 1200, fair but fading by t/out (Barbour NH 6/21)
- 15160 **SOUTH AFRICA R France Int** relay via Meyerton in EG 1619, ID's, mx bridges, discussion concerning agricultural exports from Africa to France and difficulty for farmers in Africa, p-f (Clar NY 6/22)
- 15175 **GERMANY AWR** relay via Juelich in AR 1915, religi tlk, ID, classical mx b/w segments (Clar 7/10)
- 15180 **CYPRUS BBC** relay in EG 1821, documentary on impact of TV in Bhutan, promos for BBC archive on web and rpt on upcoming "Glastonbury Festival", abrupt s/off 1830, fair w/fading (Clar NY 6/16)
- 15205 **FRANCE V of Africa** (Libya) relay in EG/FR 1920, ID, nx, into FR 1923, f, //15315 (Alexander 6/16)
- 15205 **CHINA R Canada Int** relay via Xi'an in EG 0010, nx or current affairs - ments "Stephen Harper" and talk re man wanted to be Canada's most prolific murderer being sent back to prison, p (Clar NY 7/8)
- 15275 **RWANDA Deut Welle** relay Kigali in GM 2319, rpts on choice of John Edwards as Dem VP candidate and death of Canadian citizens in Iraq, fair w/QRN (Clar NY 7/6)
- 15295 **MALAYSIA V of Malaysia** Kajang in AR 1833, tlk, ID's, many ments "Kuala Lumpur", prayer, drum and chimes, anthem-like mx, s/off ancmt? at 1855, p-f w/fading (Clar NY 6/16)
- 15385 **SPAIN REE** Noblejas in EG *0000, nx including rpt that Spain is making payments to families of train bombing victims, "Spain Day by Day" feature, vg (Bauernhuber NY 6/14)
- 15495 **KUWAIT R Kuwait** in AR 2340, Mideast mx, "Huna al-Kuwait" ID's, //9855, exc (Clar NY 6/19)
- 15650 **GREECE V of Greece** in GK 2354, IS/theme mx, ID's in EG/GK, NA 2358, pips, nx (Clar NY 6/20)
- 15695 **GERMANY IBRA Radio** via Juelich relay in SH/EG *1730, choral mx, drama, into EG prgming 1830, with "Spotlight" feature (Paszkievicz WI 6/17)
- 15720 **NEW ZEALAND RNZI** in EG 0200, nx, wx rpt, cmntry abt women in business mgt roles, discussion on winter festival (Bauernhuber NY 6/20) "National Radio" feature, ID's, econ nx 0015 (Clar 6/16)
- 15748^v **SRI LANKA SLBC** Colombo in EG 0235-0320+, oldies mx, ID, gospel mx and relig pgming, f-g (Alexander PA 6/17) in EG 1252, All-Asia Service, cmntry on int'l nx, relig feature (Barbour NH 7/10)
- 17490 **RUSSIA R Ezra** via Armavir relay in EG 0858, ID, mention(t) of "Life of Israel radio broadcast" followed by Vernacular chanting, station info, Hebrew Scriptures & Karaism, poor reception w/deep fades and co-chan CRI underneath (Barbour NH 6/6) ED: Apparent move to 17590 - see item below
- 17535 **ISRAEL V of Israel** Tel Aviv in EG 1901, nx - no confidence in PM vote fails in Knsseset, g, //15640 (Fraser ME)
- 17565 **USA V of Greece** relay via Greenville in GK 2050, sports comment, special EURO 2004 pgm, very loud and clear (Perdomo ARG 6/25)
- 17590^{nf} **RUSSIA R Ezra** via Armavir relay in EG *0900, tlk by John Hill, mail address and website, India-style mx, instrum'l, s/off 0930, vp (Berg MA 7/4, D'Angelo PA 7/11) ED: Apparent move from 17490.
- 17705 **USA V of Greece** relay via Delano, CA in EG 1610, talk re human brain, exc (Muehling NH 7/10)
- 17710 **JAPAN R France Int** relay in FR 2336, current events, tlk re transfer of power in Iraq, attack on coalition convoys, mx bridges/flourishes b/w items (Clar NY 6/28)
- 17735 **NETHERLAND ANTILLES R Nederlands** relay Bonaire in DT 2047, post-game coverage of soccer match b/w Netherlands and Portugal, "Studio B" musical pgm w/Peter Gabriel mx, ID 2100, Newslne, re Tony Blair, Iraq, and Wimbledon tennis scores, g, //0485, 9700, 13665, 21580 (Barbour NH 6/30)
- 17740 **PHILIPPINES VOA** relay in EG 2347, ID, contact info, req opinions, "Dateline"- rpt on childhood marriage in Asia/Africa and its effect on women's reproductive health & infant mortality (Clar 6/24)
- 17775 **USA La Voz de Restauracion** relay via KVOH Rancho Simi, CA in EG 1653, relig mx, ID, fgy ancmt 1700 followed by more inspirational mx, f (D'Angelo PA 6/26) ED: formerly L V de la Esperanza
- 17800 **NIGERIA V of Nigeria** Ikorodu in EG 2116, "Nigerian Popular Music" feature, TC, ID, IS, at 2130, "Perspectives" re promotion of tourism in Nigeria, f (Barbour NH 7/7) in EG 2035, ID's followed by taped comments from the Minister of Finance, f-g with very distorted audio (Clar NY 7/4)


- 17810 **NETHERLAND ANTILLES R Nederlands** relay via Bonaire in EG 1913, "Euro Quest" feature about condition of refugee camps, g (Fraser ME 6/14)
- 178348 **EL SALVADOR R Imperial** Sonsonate in SP 1855-2058*, tlks, SP ballads, abrupt s/off in mid-song at 2058, fair signal w/deep fades, irregular-not heard next day (Alexander PA 6/5)
- 17895 **MOROCCO VOA** relay in EG 1900, ID, "News Now" w/rpt on service for ex-President Ronald Reagan, TC, fair (McGuire MD 6/11)
- 21580 **NETHERLANDS RNW** in DT 1855-2157*, special best in occasion of the EURO 2004 Cup. Live coverage of the futbol match Netherlands vs. Sweden, exc (Perdomo ARG 6/26)
- 21605 **UNITED ARAB EMIRATES R Dubai** in EG 1330, continuous AR mx, g, //153952 also good level but with audio hum (Alexander PA 6/6, Muehling NH 7/8)
- 21700 **SPAIN REE** Noblejas in SP 1530, mx and tlk, played scene from "The Godfather", g (Muehling 7/10)

Clandestine/Opposition Stations

- 7380 **SOUTH AFRICA V of Biafra** relay via Meyerton in EG 2108-2159*, Christian mx, ID 2109, prayer, tlk abt corruption and suffering in Nigeria, some Vern tlk, nx in EG, g (Alexander 6/19) Xmt Sat only
- 11795 **UNIDENTIFIED SITE Internews Radio/Salaam Watandar** in Pashto/Dari 0130-0300*, ID's, talks, Afghani mx in Pashto lang, conjecture is that pgm is being xmtd via Merlin UK, latest A04 revisions to WRTH 2004 list the xmsns at 11795 from 0130-0300 and 17700 from 1330-1500, fair w/QRN, fades (Berg MA, D'Angelo PA 7/9)
- 13650 **GERMANY? Radio Free Syria**(t) via Juelich(t) 1852-1859*, Mideast vocals, brief instrum'tls before carrier was cut, no voice ancmts were heard, p (D'Angelo PA 6/27) ED: Clandestine.com website indicates that RFS began bcsting 6/24 on Sundays only from 1800-1900 and suggests that xmttr may be located on Cyprus.
- 15665 **ITALY Radio for Peace** via IRRS Milan in AR 1100-1205*, brief ID in EG at s/on, into AR prgmng, all AR tlk, some SP-flavored mx and tlk, choral/orch mx, xmt Fridays only, fair w/fades & static noise (Berg MA 6/25, Barbour NH 6/18)
- 17660 **UNITED KINGDOM Sudan Radio Service** via Skelton relay in Vern 1730, rustic/traditional mx, ID in EG, pgm note mentioning "Road to Peace", tlk re land mines and displaced people, fair (Clar NY 7/15)
- 17700 **UNIDENTIFIED SITE Internews Radio/Salaam Watandar** in Pashto/Dari 1332-1415, mainly tlks until 1355 when Afghani mx was played, into Dari? 1410, fair w/fade and static (D'Angelo PA 7/10) ED: See notes above under 11795. 

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