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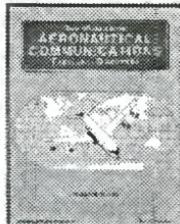


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By S. Douglass. Provides the information you need to effectively monitor all types of military communications on shortwave, VHF and UHF frequencies. This book reviews: equipment, systems, major military bases, monitoring play books and even black projects. ©1994 Universal Electronics. 280 p.

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We have some exciting news about a new website devoted to the history of shortwave broadcasting and shortwave listening. It is called "ontheshortwaves," and it can be found at <http://www.ontheshortwaves.com>. The site is a joint production of NASWA members **Jerry Berg**, who is also on Executive Council, and **John Herkimer**. The site is the gathering place for people who are interested in this subject. The main focus is on shortwave broadcasting and the listening hobby that has grown up around it. However, since shortwave listening grew out of medium wave listening, the site covers medium wave too, as well as other aspects of early radio, when they help tell the shortwave story. The site is also home to the Committee to Preserve Radio Verifications ("CPRV"), where hobby enthusiasts can find information about the CPRV's operation; copies of "The CPRV Page," which used to be published in various club bulletins and which contains illustrations and descriptions of many QSLs; and a gallery of other interesting CPRV QSLs. Other parts of the site include a section called Articles, Research, etc., Book Reviews, Information for Collectors, On the Net and a Comments section. Jerry and John can be reached at the following e-mail addresses: jberg@ontheshortwaves.com and jherkimer@ontheshortwaves.com. Check out "on the shortwaves" and let us know what you think about it through a musing.

Member **Bob Padula** in Australia informs us of the latest project from the ELECTRONIC DX PRESS. It is *EDXP ASIALINK*. It was designed to allow shortwave listeners with

ANARC SWL Ham Net

Dave Kirby, one of the net controls for The ANARC SWL Ham Net, has announced a survey to determine whether the net should come back from its summer hiatus. Questions include whether you would be willing to participate on air or via IRC chat channel #swl. Dave and Al Quaglieri hope to bring the net back this fall, depending on the results of the survey. You can find the survey and more information about the future of the ANARC SWL Ham Net at Dave's web site, <<http://www.nl dk.com/>>.

Internet access the ability to quickly call up the latest external schedule of your favorite shortwave broadcaster, without having to waste time and money trying to remember the URL. The EDXP AsiaLink is a menu-driven listing of current URLs for External service schedules of various international broadcasters in Asia, the Far East, the Indian sub-continent, the Middle East, and the Pacific. You can visit the EDXP AsiaLink at: <http://members.tripod.com/~bpadula/asialink.html>. AsiaLink was created, researched and compiled by Mick Ogrizek for the EDXP. I have taken a look at this service and believe shortwave listeners will find this a useful addition to their bookmarks!

There is more news from Bob and the EDXP: "Our newest *Spectrum Study* is now available. This covers the current (A99) international transmission season and contains the results of actual monitoring made here in

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

Our Motto is - "Unity and Friendship"

Membership Questions?

If you have any questions concerning your membership, renewals, change of address, etc please contact Bill Oliver by postal mail (45 Wildflower Road, Levittown, PA 19057) or e-mail (boliver@bboard.com).

south eastern Australia during June 1999, from 0000-0400 UTC, for SW broadcasting stations on frequencies up to 9999 kHz. The study is arranged in frequency order showing transmitter country, transmitter location, organisation/station, observed reception span, observed sign-on and sign-off times, languages, and other details. Several hundred entries are given. A description of propagation characteristics and effects of solar activity accompanies the data. The reception time period of 0000-0400 UTC corresponds to late morning until early afternoon here in south eastern Australia, and the study includes many entries for broadcasts heard throughout that four-hour time span, extending across out local noon. Such propagation, from all continents, is noted every year during our mid winter period, and is known as the "Antarctic Mode" due to some signal paths crossing the Antarctic Region." The Spectrum Study is available electronically as a Word 7.0 document, free of charge, from its compiler, Bob Padula bpadula@compuserve.com. A print version is available for A\$5 or 4 IRCs (or US\$3 cash), covering airmail delivery worldwide, from Bob Padula, 404 Mont Albert Road, Surrey Hills, Victoria 3127, Australia.

Word from "downunder" is that the **Southern Cross DX Club**, based in Adelaide, South Australia has closed down. Official reason, which appears on the club's website maintained by webmaster **Stephen Newlyn**, is as

follows: "The club has closed down due to a lack of administrative staff and declining membership." Other Australian clubs to fold in recent years include DXers Calling, the South Pacific Union of DXers, and Oz DX. The Australian Radio DX Club remains as the only shortwave club in Australia.

By now, member **Dario Monferini** (PlayDX in Italy) has returned from his extensive travels, which includes radio stations along the route. We received a "Polskie Radio" postcard from him while he was in Poland. Dario included the three Baltic Republics and Finland in his travels.

We have a much larger Musings section than usual this month. Thanks to all that have written in to date. The Musings section is what the members make of it so it is nice to see a lot of activity. Keep it up!

Finally, congratulations to long time member and former *Listeners Notebook* editor **Glenn Hauser** for achieving an historical high point in his broadcasting career. As many of you know, Glenn has been hosting his *World of Radio* program for many, many years. In late August, gh produced show #1000. That's quite an achievement! Here's to another 1000 shows!!

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



FRENDX: Twenty Five Years Ago....

Shortwave Center editor Ed Shaw was planning his move to San Diego and anticipating relinquishing his position with the club. Dan Jamison takes a look "The Inside Story: Broadcasting in China" while Harry Helms wrote "Some Caveats About Mechanical and Audio Filters." Bob Hill of Berkeley, CA, replacing Dan Ferguson, joins Mac Leonhardt and Jerry Lineback as Log Report editors. Henry Rockwood and Robert Wiles (typist) took over the QSL Report editing duties from Larry Yamron. Larry Magne's Clandestine Bulletin featured reports from Cyprus and Bulgaria.

Calendar Of Events

- Oct 15 Meeting. Philadelphia Area NASWA Chapter.** Kulpsville Holiday Inn, Kulpsville, PA at 7:30 PM. For more information contact Dan Cashin at 610-446-7831.
- Oct 15 Meeting. Boston Area NASWA Chapter.** The Lexington Club, Rts. 4 & 225, Lexington, MA at 7:30 PM. The location is 1/4 mile west of Rt. 128, Exit 31. For more information contact Paul Graveline at 978-470-1971 or Internet: 74007.3434@compuserve.com. The URL for the BADX guys is <<http://www.anarc.org/naswa/badx/>>.
- Nov'99 Convention.** The annual **Conference of the European DX Council** will be held in Copenhagen, Denmark from 5-7 November 1999. The venue will be the Hotel Eremitage (one night in single room 515 DKK or one night in double rooms 370 DKK/per person). This is with the condition that everybody with hotel reservation is requested to participate in the Banquet Dinner plus afternoon coffee costing 260 DKK. The conference fee isn't set, as it depends a bit on the number of participants and also on what conference facilities we are going to need, but this will be 200 DKK as a maximum (hopefully clearly less than that). Reservations and private questions to risto.vahakainu@helsinki.fi. Suggestions, proposals, public comments etc. to edxc@kotalampi.com.
- Nov 12 Meeting.** The **Tidewater SWL's** meet at 6:30 PM. For more information plus meeting location contact Joe Buch at joseph.buch@dol.net
- Nov 12 Meeting.** The **Cincinnati/Dayton Monitoring Exchange (MONIX)** meet at the Lebanon Citizens National Bank on U.S. Route 42 in Mason at 7:00 PM. For more information contact Mark Meece at 513-743-8089 or e-mail at rmeece@siscom.net. For additional information about MONIX, check out their web site at <<http://www.siscom.net/~mmeece/monix.html>>
- Mar 10-12, 2000 Convention.** The **13th Annual Winter SWL Festival** will be held at the Kulpsville Holiday Inn (Exit 31 on the Northeast Extension of the Pennsylvania Turnpike) on 10-12 March 2000.
- Mar 19-21 Contest. 2000 North American DX Championships.** For further information you can send a self-addressed stamped envelope to 2000 NADXC, c/o Dr. Harold Cones, 2 Whits Court, Newport News, VA 23606. Rules will also be posted eventually at <<http://www.anarc.org/>>.
- Sep'00 Contest. AWR Contest.** Number of different QSL stamps in the listener's collection. More details to 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).

Late Breaking News: NASWA to Take Over Winter SWL Fest

The big news this month is that the Winter SWL Festival will continue under the sponsorship of NASWA. After twelve years of dedicated service to the shortwave listening hobby, the gang of three—Bob Brown, Harold Cones and Kris Field—have stepped down as hosts of this popular winter gathering of radio hobbyists. Since the club has been an active supporter of this event from its inception, it was decided to formally pass the organizational torch from these three club members to the club itself. Richard Cuff (rdcuff@sprintmail.com) and John Figliozzi (jfigliol@nycap.rr.com), better known as Mr. and Mrs. Hospitality will form the heart of the new organizational committee. As they begin to roll out their plans, other members of the listening community will be added to the committee. Naturally, we will keep club members up to date as events unfold. Of course, we hope to see all club members come out and support the 13th annual Winter SWL Festival in Kulpsville, PA on 10 and 11 March 2000. See you there!

Contribute!

Send your loggings and QSL information off to our Distributing Editor, **Fred Kohlbrenner** (2641 South Shields Street, Philadelphia, PA 19142). He will forward them to the appropriate editor. Remember, Fred has now expanded his business to include QSL report information and totals for the **Scoreboard** column. He can also be reached through the Internet at: fkohl@ix.netcom.com.

Musings

This column provides a forum wheras 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 are soley 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.

Doug Robertson (KCA6XO-Seahaven), 4045 Sunset Lane, Oxnard, CA 93035

The foam earpads of my Yaesu YH-77 earphones turned into black dust, after many years of service with my FRG-8800. I guess my elderly ears aren't generating as much earwax, which probably staves off oxidation and decay of the foam.

Radio Shack No. 33-375 Headphone Replacement Pads are an exact fit on the YH-77s, look good and are acceptable in performance although somewhat less dense than the original foam. They are a comfortable, inexpensive solution for the restoration of what I think is one of the best shortwave headsets.

73, Doug

Larry Colton <AnimalRus9@aol.com>

I am a NASWA member and enjoy receiving the monthly bulletin. Recently I saw a reference to "the Malta address" for the Voice of Africa (Libya). I am unable to find the actual address referenced. Do you know where I could find this particular address? Thanks. (No problem. Here is the Malta address you requested: Radio Jamahiriya, The African Service, P. O. Box 17, Hamrun, Malta. Good luck with your quest for a QSL from Libya. RAD).

Round #2 from Larry: I may have missed it originally, but I looked through about 4 years worth of bulletins and did not find the address (several mentions, but not the actual address). Also, please make note that this is just another reason to belong to the club-members helping members. Again, my sincere thanks. (I couldn't agree more! RAD).

John Figliozzi <jfigliozzi1@nycap.rr.com>

I just finished listening to one of the programs Radio Netherlands is rebroadcasting to honor the memory of Pete Myers. In some ways, the series is very personal to Pete as it describes some of the things that shaped his life and led him to the career he chose. The program tonight dealt with aspects of music and the theatre (cinema, really) that made an impression on him. The program was principally music with some descriptive/historical comment by Pete introducing each piece—nothing too fancy, in other words. But, in my opinion, it is fabulous radio because the person preparing the program (Pete) put

something of himself in it and conveyed his deep appreciation for the subject matter and artistry of the performers. (And, yes, I know that the fact that Pete has passed on can color one's opinion. But, dear reader, this was fabulous radio when Pete was alive, too!)

Here's my point. To some, radio itself is an art form, a *craft* if you will. To others, it's just a jukebox or a squawkbox...or an ingeniously disguised cash register. I'd much rather listen to programs produced by someone who appreciates it as the former, rather than one who exploits it as the latter. Somewhere along the line, American commercial radio became solely a means of delivering ears to advertisers. I say "solely" because while this mission was always a part—and (let's face it) an important part—of American commercial radio, there was at one time some respect for the audience and the medium to be found in the programs produced and aired. That is gone today. It's all about exploitation now. Delivering ears is not the by-product of the larger mission; it's the **ONLY** mission.

I can remember sitting in front of our stereo as a teenager (because we lived about 90 miles from NYC and the stereo—being hooked up to a huge antenna with a rotor—was the only radio in the house that could pick up WNEW-FM) in the late 60s listening to Jonathan Schwartz's program. Although this was a "progressive" rock radio station, he often built sets of music around a theme. I don't quite remember what the theme was for this particular set—perhaps it was baseball—but one of the songs Schwartz chose to play was a recording of Sinatra singing "There Used to Be a Ballpark Here". It blew me away that a DJ on a rock radio station would play a Sinatra song to illustrate the theme and mood he was trying to set. (And yes I know that Schwartz had at that time—and for a number of years thereafter—a Sinatra show on the "AM side".) But, boy, did I get his point! And I also learned at that moment that radio truly is an art form in itself and could be treated as a craft, if the person using this instrument was himself or herself, above all, a craftsman.

For the most part, we have none of that today. And it is most lamentable! What passes for ingenuity today is a "new format" which simply takes what music is there and redefines it down to an even narrower demographic. Pure drivel, IMHO. And I, for one, bitterly resent it more and more each day as this little but important part of my world comes increasingly under the thumb of the bean counters, who are squeezing every last drop of true creativity out of it. When some of you here talk about how radio is getting much better in the UK because of the growth of the commercial sector there, I wonder (respectfully) if you really know what you're wishing for. Even our (and your) public service broadcasters are being forced to dance to the tune of these charlatans. So I turn to my shortwave and hope for the best while fearing the worst.

So, thank you Pete wherever you are, and thank you Radio Netherlands for still appreciating what quality is and freely offering it to us.

Gayle Van Horn <gayle@grove.net>, Monitoring Times, Brasstown, North Carolina

Kudos to Maryanne Kehoe! She's absolutely right, we lady DXers are in the minority! From my count, I could come up with only five active lady enthusiasts. No doubt there are others who are a "silent majority", and isn't it a shame! Perhaps, because this is a male dominated hobby, some may be surprised, or dismayed, that a woman would be so enthused about radio...but I assure you gentlemen, numbers are growing. Maryanne's opening "ARE WE WELCOME", certainly made me reflect on past instances when as a new DXer, my opinions were not welcomed, my loggings criticized and generally was ignored by many of the supposed top DXers (gee, I'd love to name names). Thank goodness, I refuse to give up! When I wasn't DXing, I was reading about radio, theory, and propagation...and as my

mentor taught me, "read it and read it again and when you think you know it, read it again." He's right. Are we dedicated? You tell me! Someone should ask my husband Larry about the "fix your own" dinners and the PTA meetings I skipped because I was chasing a flea-watt Peruvian! I'll admit to some raised eyebrows from postal clerks (thank goodness the Navy kept us moving for twenty years!) and FINALLY our families have grown accustomed to our "radio-talk"!

Anyone ever noticed Sheryl Paszkiewicz's totals? She's one of the best and thank goodness she represents NASWA with an excellent column. Anyone ever heard of Marie Lamb?

My point? Quite simply, the welcome mat may not be out from all of our male colleagues, but Maryanne and the rest of us aren't going away. We love radio...just as much as you do!

(As many of you know, Gayle handles the SWBC Logs and QSL Report Editorships for *Monitoring Times* magazine. You can visit her official VIRTUAL BRASSTOWN website at <http://www.geocities.com/BourbonStreet/Quarter/8827> - RAD)

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

For those of you that have not checked out the new On The Shortwaves website, created by Messrs. Berg and Herkimer, I highly recommend you do. The site is a wonderful collection devoted to the history of shortwave broadcasting and shortwave DX'ing. In fact, if you have not check out Jerry's book by the same name, I'm not sure what you are waiting for. The book is essential reading for anyone that calls the medium of shortwave radio a "hobby." The new website continues that work (see NASWA Notes). Two of my personal favorites are the CPRV Page and the comprehensive listing of World Radio TV Handbooks published.

Frank Aden, Jr. <N7SOK@aol.com>, 4096 Marcia Pl, Boise, ID 83704

I don't report as much as I used to but am somewhat still active. Have been teaching a local Community Education Class on Short-wave Radio about 3 times a year. I always pass around JOURNAL samples. I hope of some these students will join NASWA.

I am interested in organizing an Expedition this fall in the desert south of town. Two years ago we set up two beverage antennas. Had pretty good results. Anyone interested in helping out can reach me at 4096 Marcia Pl, Boise, ID 83704 or at N7SOK@aol.com.

73 Frank N7SOK, NASWA since 1970!

Welcome to the following new NASWA members

David R. Brown, Newburgh, NY

Jim Grimes, Wichita, KS

David Mays, Granbury, TX

William McDonald, Silverton, OR

Michael Meidlinger, Cuyahoga Falls, OH

Ronald G. Muro, Scranton, PA

Dan Roberts, Willits, CA

Jesse M. Smith, Myrtle Creek, OR

Richard Sobers, Oneonta, NY

Gordon Soflin, Livingston, TX

George Tobin, Brownville, NE

Easy Listening

Richard D. Cuff
327 Springhouse Road, Apt. 102
Allentown, PA 18104
Internet: rdcuff@sprintmail.com

East Timor News Sources

One of the arguments used to lure newcomers to the shortwave listening hobby is the capability to listen to major news events from broadcasters in or very close to the country where the events are occurring. At the time this column was prepared, East Timor had descended into a state of anarchy, with an international peacemaking response just now being marshaled. The broadcaster with arguably the best English language coverage of the ongoing crisis is **Radio Australia**, primarily via *Asia Pacific*, its regional current affairs program. *Asia Pacific* normally airs at 0010, 1005, 1105, and 1505, Tuesdays through Fridays, and 2305 Mondays through Thursdays. The broadcasts are available live via World Radio Network's WRN1 program stream at 0010 and 1605 UTC. The 1505 UTC broadcast is archived at the WRN website for 24 hours for on-demand listening.

A Saturday edition of *Asia Pacific* airs at 2205 UTC Friday, and 0005, 0830, and 1005 UTC Saturdays. The 0830 airing also is available at WRN1, with an on-demand archive at Radio Australia's website.

Other **Radio Australia** current affairs programs, including the current affairs programs *AM* (2110 and 2210 Su-Th), *PM* (0810 M-F), and *The World Today* (0210 and 0410 M-F), also have extensive East Timor coverage, and all are archived at the **Australian Broadcasting Company** website. In fact, past editions of all three programs dating back to July 1st, 1999 are available. The weekly current affairs program, *Correspondents' Report* (0010 Sa & Su, 0310 Su, 0640 Su, and 1010 Su), also features information on East Timor. On-demand archives are also available at the ABC website.

Live or on Tape: Did Taiwan Earthquake Catch European Broadcasters Off-Guard?

Larry Nebron, in the *swprograms* E-mail list, observed that **Deutsche Welle** and **Swiss Radio International** did not feature coverage of the recent Taiwan earthquake in their current affairs programs aired later that day to the Americas, serving as a reminder that the evening North American releases contain material prepared earlier in the day. By comparison, Larry noted that **Radio Netherlands' Newslines** program included coverage of the earthquake. Radio Netherlands' Andy Sennitt commented that someone must have stayed late at the studio to prepare updated material for the North American releases, given that the quake struck at 1747 UTC (7:47 PM local Netherlands Time).

Should we be concerned that DW and SRI current affairs programs that day didn't include quake coverage? My own opinion is that, for breaking news, I'd tune to the BBC or other English-language based stations first, as these stations can report English language coverage live without translation. Most international stations operate on small budgets, and I would rather these stations focus on the *analysis* of events unique to their country, culture, or region, rather than the raw events themselves. At least that's what I listen for.

Radio Netherlands October Highlights

Here are upcoming *Documentary* program topics. Radio Netherlands' weekly documentary first airs to North America Thursdays 0053 and 0453; the program is repeated Fridays, 2353.

October 7th and 8th: *Malaysia At The Crossroads* (no details yet available)

October 14th and 15th: *Spirits In Turmoil*—A decade ago this month, the Berlin Wall collapsed, leading to the fall of communism throughout Eastern Europe. At the time, it was hoped that democracy and market forces would help the region quickly catch up with western Europe. But the transition is turning out to be long, painful and traumatic. One of the most enduring legacies of 50 years of Communist rule has been in the minds and spirits of people. Eric Beauchemin examines the psychological scars of half a century of communist rule and the ongoing efforts to reform the mental health care system in Romania and Bulgaria.

October 21st and 22nd: Topic not yet available.

October 28th and 29th: *Stories of the 20th Century: The Laughing Cry*—Radio Netherlands continues its series on great stories of the 20th century, told from the perspective of the historical events that inspired them. October features “The Laughing Cry”.

In addition, here are the major seasonal changes forthcoming from Radio Netherlands as of October 31st:

- ¶ *Sounds Interesting* will be replaced by *Dutch Horizons*, a new weekly Dutch current affairs program.
- ¶ *The Sound Fountain*, an exploration of new ideas in sound hosted by Dheera Sujana and Michele Ernsting, replaces *Aural Tapestry*.
- ¶ *The Week Ahead*, a four-minute preview of the upcoming week's programs, airs on Sundays, replacing *The Way I See It*.
- ¶ *Sincerely Yours* gets a permanent host in Veronica Wilson, versus the current practice of rotating hosts on a periodic basis. (from Radio Netherlands Website)

Radio Australia Program Suggestions

Here are a couple additional program suggestions from John Figliozzi, via the *swprograms* E-mail discussion group and various ABC web pages:

Thursdays 0110 on 21740—*Background Briefing* is Radio National's agenda-setting, current affairs radio documentary program, with a history of award-winning investigations of important issues and events. While some of the content is only of interest to someone following domestic Australian issues, the depth of analysis is good.

Fridays 2330 on 21740—*In Conversation* with Robyn Williams—Robyn Williams talks not only to scientists but also to those interested in the subject and about what it's meant to their lives. If you enjoy Radio Australia's *Science Show*, you'll enjoy this program as well.

With winter approaching, this frequency won't propagate as well to Eastern North America, and the live webcast will be the recommended route.

Deutsche Welle Budget Cuts Update

John Figliozzi relayed information from the September 22nd *Newslink* program detailing protests by Deutsche Welle staffers in Berlin regarding the upcoming budget cuts reported last month. It sounded like the government representatives the staffers met with were sympathetic, but not helpful. While Deutsche Welle's budget won't be finalized until later in October, it appears to be clear that significant cuts won't be avoidable. The actual affect on Deutsche Welle content and transmission schedules hasn't been determined, though English remains a priority language. Personally, I wouldn't be surprised to see some North American frequencies and times scaled back, with an increased emphasis on the Internet to reach English language listeners in the Americas.

BBC World Service

News Gathering Vital Statistics

From the October *BBC On Air*, here are some statistics on BBC's worldwide news gathering operation you might find interesting:

- ¶ 50 bureaus
- ¶ 250 foreign-based correspondents
- ¶ 20 permanently based producers/camera operators
- ¶ 90 London-based correspondents
- ¶ plus local journalists ("stringers") employed as needed.

The BBC continues to promote itself as the world's most trusted news broadcaster, and I doubt many shortwave listeners would quibble with that claim.

October Highlights

Popular Music and Youth

Thursdays, 0530 and 2230, beginning October 21st: The biggest news from the World Service this month is a new six-part, 30-minute series hosted by Beatles legend Paul McCartney, entitled *Routes of Rock*. McCartney will present the songs that have inspired him over the years, as well as songs from his latest work, *Run Devil Run*, which includes his versions of several classic rock tunes. It appears that music programs will generally *not* change times with the seasonal changes (see below), so you can mark your November calendar as well.

Saturdays, 0920 and 2330: *The Vintage Chart Show* revisits 1979, 1971, 1963, 1984, and 1973 in October. Paul Burnett hosts.

General Features and Current Affairs

Saturdays, beginning October 9th, 0330: *Keep to the Path* is a three-part, 15-minute series taking a stroll in three scenic British settings; part travelogue, part nature.

Thursdays, beginning October 14th, 0730 and 1130: *Assignment*, a 30-minute weekly topical documentary and one of my personal favorites, returns from its summer absence. Glad to see it back!

Sundays, 0430, and Tuesdays, 1130: While it's good to see *Assignment* return, October

will mean the end of *Omnibus* on the World Service. Two subjects to be featured in the final weeks include *Whose Land Is It?*, a look at ranching and land management in the American West, and a look at how the Japanese are taking a retrospective reevaluation of their country's past. There is no obvious replacement for the program; when you factor in the time changes shown below, it would appear a rotating 30-minute feature program will fill *Omnibus'* time slot.

Sundays, beginning October 17th, 1045, repeated Wednesdays, 0330: *Australian Talk Back* is a three-part, 15-minute series that plays on the eponymous *Radio Australia* program. This three part series reflects on Australian colonialism as the country prepares for a national referendum on becoming a republic, effectively ending its loyalty to the British crown.

Tuesdays, beginning October 26th, 0430: *Impostors* is a three-part, 30-minute series looking at notorious fraudsters. Dr. James Barrie, Chief Buffalo Child Long Lance, and Louis de Rougemont are profiled by Nick Baker.

Tuesdays-Saturdays, 0055, repeated in a single compilation Mondays, 0030: *My Century* highlights *The Artist's Century*; *Best Day of My Life*, with both famous and not-so-famous talking about one single day in their lives that stands out; and *Sounds of the Century*, looking at the century's musical landmarks.

Sunday, October 17th, 0045 and 0905: *Waveguide* looks to be worth a listen, as Richard Lambley interviews Li Dan, the Deputy Director of China Radio International. In light of ongoing broadcaster downsizing, CRI has bucked the trend, increasing its shortwave output and Internet presence.

Classical Music

Sunday, October 24th, 0301: The next *Millennium Concert* is from Bethlehem's Manger Square, and celebrates the centuries-old tradition of Arab classical music. Bethlehem is now located in the newly-established Palestinian region, and will host a series of events marking the millennial change.

Sundays, 1515: *Concert Hall* takes a walk through 20th century music in October, with selections from each decade included in the mix.

Drama and The Arts

Saturdays, 2230, and Sundays, 0530: In *Play of the Week*, the *Worldplay* series of specially commissioned radio plays from various world broadcasters continues:

October 9th: *In Her Father's House*, produced by Australia's ABC, was written by Carmel Bird, a leading Australian novelist. The play is based on events and characters taken from Tasmania's history.

October 16th: *Looking For Stones*, produced by Radio TV Hong Kong, asks fundamental questions about the legacy of war and is set in the '70s, where future potential meets up with the memory of war.

October 23rd: *The End Of Love* is the BBC's contribution to the *Worldplay* series. Written by Rose Tremain, the play mixes emotional entanglements, secret longings, and reflections on exile and desertion.

October 30th: *Merry-Go-Round* comes from Los Angeles TheatreWorks. Written by Wendy Kesselman, the play focuses on the chance adult reacquaintance of two childhood friends, and their reliving of childhood games and passions bridges the past and present.

Mondays, 0130 and 1430: While I don't have an exact date for this, *Meridian Feature* profiles Edgar Allen Poe in October. He is considered the inventor of both the detective story (*The Murders in the Rue Morgue*, 1841) and the horror story. Poe first found fame outside the USA, and influenced French authors Baudelaire, Rimbaud, Verlaine, and Mallarme.

Science and Technology

Sundays, October 10th-24th, 0030, repeated the following day, 1515: *Postmarks* is a *Science Extra* series reporting on British scientists working around the world on various projects.

Tuesdays, 1405, and Wednesdays, 0030: Sometime in October *Discovery* will be toasting one of the more unexpected drivers of scientific innovation: Beer. Steam engine development, pasteurization, and genetic engineering all have their roots in brewing technology.

Advance Look — New Fall Schedule

Thanks to the Audience Relations staff, I received a copy of the World Service new fall schedule, effective from October 31st to April 1st, 2000. The changes aren't too significant, thankfully. I've summarized them below:

0200 programs move to 0300
0300 programs move to 0400 (exception: *Sports Roundup* remains 0320)
0400 programs move to 0200
0600 programs move to 0700
0730 programs move to 0630
0900 *World Update* moves to 1000
1600 programs move to 1700

There are a few minor additional changes that don't fit this pattern, and I'll report on them next month.

Internet Mailing List on Short-wave Programming

As a reminder, if you are interested in advance program information that comes in too close to air dates to be used here, or are interested in two-way discussion on programming content, check out the *swprograms* E-mail reflector. You can subscribe in one of two ways: 1) Visit the website <http://www.topica.com> and search for *swprograms*; or, 2) Send a blank E-mail to swprograms-subscribe@topica.com.

Also, I am always interested in your contributions and program suggestions to be shared here in the column, so please take the time to send a note via E-mail or Snail mail.

Until next month,

73 DE Richard



ANARC's Early Years - Part Two

By Richard A. D'Angelo

(Editor's note: This continues the article begun in the August 1999 Journal.)

Stan (C.M. Stanbury) also proposed that after each vote a listing of how each club representative voted should be published in the newsletter by the Executive Secretary. Don (Jensen) pointed out that election results were available if individuals were interested since he considered them a matter of public record. However, if the club representatives wanted them published, he would gladly do whatever they wished in this matter. As 1965 began, it was time to address the three ballot issues that closed out 1964's business. It was determined that a breakdown of who voted for which issues should be published by an 8-7 tally. Thus, official vote breakdowns were now published after each balloting. The constitutional amendment proposed by C. M. Stanbury II, which would provide for a referendum by the membership of each club prior to any ANARC action on matters pertaining to the establishment of hobby standards, received 5 "Yes" votes and 10 "No" votes. Since it required a two-thirds vote, i.e. 11 out of the 16 votes, the amendment failed by 6 votes. The resolution by John Callarman, which rejected the amendment concept for issues pertaining to standards by allowing each club to decide for themselves, was passed in a 7-6 vote. The resolution was non-binding. Executive Secretary Jensen's remarks probably summed up the thought of most club representatives on these issues: "In my mind, while a noble thought, it isn't practical.... the number of hobbyists represented (over 2000, would make this "town meeting" form of democracy break down.... Means are provided for interested individuals making their desires known to their representatives.... A point

that should perhaps be emphasized again is that, regardless of what actions the ANARC might approve, there is no way it can enforce its will upon a club that does not decide voluntarily to follow that action.... We can only succeed with the goodwill and voluntary compliance of the various clubs. Any attempt to force compliance will only fail. I'm sure!"

The results of the Radio Gambia special on December 15, 1964, were disappointing. Only a half dozen reports were received. None could be verified. The quality of the reports was shockingly poor. Other than the publicity value received by ANARC for scheduling it, the special program was of no practical value to DXers. Nominations for the DXer of the year award were received from only two clubs, the International Radio Club of America and the Canadian DX club. Contacts with the Newark News Radio Club and the American Shortwave Listeners Club II indicate they would be forwarding their nominations shortly. The February 1, 1965, deadline was rapidly approaching and most clubs had not been heard from. Concern was expressed that not enough support was being received for this activity. A list of problems ANARC should tackle was presented. As a result, Don suggested the possible formation of two committees. The first would be a manufacturer's liaison committee, which would have the responsibility of funneling ideas about needed equipment from members of the public. The second would be a watchdog committee which would deal with various listener-station problems, such as the non-QSLing matter presently of interest, urging stations to announce frequencies rather than just meter bands, etc.

February, 1965, was both a low point and a turning point for ANARC. Quoting from

Executive Secretary Jensen's February 11, 1965, letter to the club representatives: "In view of things that have occurred since the last newsletter and following a general review by the executive secretary of the activities of ANARC during the past many months, it seems it is time for all of us to take stock of what the association has done, and more specifically, failed to do so far. It is time to consider the path ANARC is to follow in the future!"

The lack of response to the DXer of the Year award nominations was viewed as the latest in a long series of problems with ANARC. Don pointed out "that virtually all the other projects, including the efforts to establish a country list standard and the special BCB broadcast information exchange, either didn't pass or flopped after passage because of lack of interest." It was pointed out that not one progressive action designed to help the hobby has been successfully carried to completion. Perhaps, the most significant accomplishment of ANARC has been to smooth relations between the clubs. Many felt ANARC should lead the way to progressive steps that will help all DXers.

Without more nominations being received for the DXer of the Year award, it was determined that it would only be a hollow honor. Since only three nominations were received, it was assumed the other seven clubs were no longer interested in the award. therefore, consideration was given to canceling it. Don Jensen felt part of the blame for ANARC not having managed to carry out any short of progressive steps to help the hobby was the scatter-gun approach taken to date. While Don briefly considered resigning, he determined a new approach may be worth trying first. With the thought of concentrating on just a few projects at one time, Don announced the formation of three committees. The first was the Broadcaster's Liaison Committee with Richard Wood volunteering to work on areas of frequency interference problems and poor station verification policies. The second was the Manufacturers Liaison Committee. C.M. Stanbury II was asked to head this committee which will express listeners desires in radio equipment. The third was the Ethics Study Committee with John Callarman being asked to chair this group. It

was left open that one more committee might be established that would have specific interest to the BCB or ham listeners since they may feel left out by the above committees.

The following month Don reported that Richard Wood felt the Broadcaster's Liaison Committee "can get progress in this if we unite." A number of representatives felt work should proceed with poor verifiers. John Callarman called to accept the Ethics Study Committee position. John had already contacted a number of people in the hobby to serve on his committee. Stan Stanbury accepted the Chairmanship of the Manufacturers Liaison Committee. The latest edition of the American Shortwave Listeners Club II bulletin said that C.M. Stanbury II became the new Executive Editor with Gerry Klinck continuing as publisher. The club has recently become all shortwave broadcast DX oriented.

In March 1965, Don Jensen unveiled the association's first stationary which was relatively plain, one-color effort to fit ANARC's limited funds. Stationary was sent to each of the committee chairmen. A financial report through march revealed the association operated with a \$6.10 deficit since its inception. Receipts of \$40.00 (\$32.00 in fees and \$8.00 in anonymous donations) were offset by \$46.10 of operating expenditures (\$15.00 for postage plus \$21.80 for letterhead stationary among other costs). It was expected that the association would operate in the black in year two, so fees were kept the same for the next fiscal year. A number of favorable comments were received about ANARC's "new look" based on the establishment of committees to tackle a few worthwhile projects. C. M. Stanbury's Manufacturers Liaison Committee was seeking input from SWL's regardless of club affiliation, about the subject. The Frequency Recommendations committee, under Richard Wood, sent a letter to all station's broadcasting to North America about seeking co-operation with international broadcasting in selection of choice frequencies at all times of the year.

On April 20, 1965, ANARC celebrated the conclusion of one-year of official operations. With that message, Executive Secretary Jensen reminded the club representa-

tives that it was time to pay the annual fees to finance the association's operations. Jerry Seckal replaced Dick England as the representative of the Worldwide Monitors Radio club. Eric Madison, the new representative of the Great Lakes Short Wave Club, presented his biography in the April, 1965, newsletter. Richard Wood reported that August Balbi and Joe Rudolph joined the Frequency Recommendation Committee. Excellent progress was reported in May. Favorable responses had been received from Radio Nederland, Trans-World Radio in Monaco, Radio Cairo, Radio Amman, Radio Bucharest, Radio Beirut, Radio Sweden, and Radio Australia. By June the Committee was already suggesting frequency modifications to some of the participating stations. Chairman Wood reported the addition of Warren Nordgren to the group. It was reported that Doug Benson would head a subgroup of this committee to be called the Positive Frequency Identification subcommittee. Doug would attempt to convince the stations to announce their exact frequencies in use, not merely their meter bands.

In April, C. M. Stanbury II reported that he was still looking for members to serve on the Manufacturers Liaison committee. He reported in May that his initial contacts were not too successful. It was considered to be a very difficult problem to convince manufacturers that the SWL market is worth consideration. By June, Stan reported Paul R. Donegan, Fred Parsons, Gordon Schiff, W. C. Klontz, Francis Brown, and Todd Graves, Jr., had joined the committee. The Heath Company was the first manufacturer the committee was able to report having favorable communications on this subject.

The growing problem of poor quality reception reports appeared to be the concern of numerous club bulletins during 1965. The recent experience with Radio Gambia and visits to stations by DXers revealed a deep-rooted problem. D on urged a seasoned DXer to step forward and tackle this problem as head of an ANARC committee.

The fees from the International Radio club of America, the National Radio Club, and the Kentucky DXers Association were not re-

ceived as June closed. It was speculated that the Kentucky group may have ceased to exist. On a positive note, a board member of DX InterNationale suggested the club was once again considering affiliation with ANARC now that it had completed a reorganization. DXI membership just passed the 100 mark in June 1965. Some representatives expressed a concern that ANARC should be trying to attract more listeners who are presently not members of any club to join one or more of the affiliated clubs. Unfortunately, there were no concrete suggestions on how to go about this matter.

In July 1965, Ethics Study committee Chairman John Callarman reported that a questionnaire was going out to 16 to 20 people, active and experienced in various phases of the hobby. This questionnaire was designed to ask those DXers their opinions on important questions pertaining to the hobby. By September, 36 experts in all phases of the hobby, had been contacted. Doug Benson's Positive Frequency Identification subcommittee reported eight persons interested in supporting the group, mostly through the efforts of Serve Neuman's ASWLC column and Benson's column in NASA. To date a letter had been sent to seven different broadcasters about the listeners side of this question. The National Radio Club passed the 350-member mark, entitling them to an additional club representative. Under reorganization, the three representatives became John Callarman, Dick Cooper, and Ernie Cooper. Only the International Radio Club of America's fee was uncollected at this point. Official word from the Kentucky DXers Association indicated that the club no longer existed since none of the elected officers wanted to accept the position of executive editor. The club was looking to merge with another ANARC club or a club that would be interested in becoming an ANARC affiliated club.

An issue of clubs putting out bulletins was raised. Apparently, some clubs had periodic problems publishing a regular bulletin. Many felt it was not appropriate for these clubs to be members of the association without a regular bulletin being published. Although there were past problems, the intent is for all member clubs to publish a regular bulletin.

Closing out July's business was an interesting proposal from the Canadian DX Club ("CDXC"). Club representatives Fred Woodley and Dave Bennett proposed the establishment of an annual ANARC convention. This was discussed during the CDXC convention in early July. Quoting from their letter: "We had several suitable cities suggested, but the one suggestion that seemed to meet with the most approval was that we approach ANARC regarding organizing a yearly get together for all members of all clubs in the organization; sort of a master convention. This would provide an excellent opportunity for all members of all clubs to get to meet DXers outside their own groups. It would provide an opportunity, the same opportunity, for the heads of all clubs to get together to discuss mutual and hobby problems, and would give ANARC a chance to hold a meeting sometime during the convention weekend to discuss matters of interest." Comments from the clubs were sought.

As the new DX season began in September, a discussion about allowing the West Indian DX Association to affiliate with ANARC took place and the matter resulted in putting the subject before the clubs as a ballot issue. The representatives seemed split on whether this group would be eligible for membership in the association. A number of representatives supported the preliminary thoughts about holding an ANARC convention. However, it was pointed out that a committee would need to be formed to take care of the local arrangements. Don Jensen solicited support in moving this matter forward. It was put on the ballot for a formal vote of the club representatives. Todd Graves of the Manufacturers Liaison Committee reported that Hallicrafters was changing its policy and is putting greater emphasis on SWL equipment. It was suggested that perhaps mail order firms be encouraged to allow a ten to twenty day period for the purchaser to evaluate new equipment before being committed to its purchase, thanks to a suggestion from Jim Rzakiewicz, the representative from the Canadian International DX club, the association's first club list concept was born. Jim suggested adding information to the list. Executive Secretary Jensen was using for those who wrote in seeking club informa-

tion. Each club was encouraged to get 4-6 lines of information about their organization into Jensen for the new list.

In October 1965 there was much committee activity for the representatives to digest. Stan Stanbury appointed Fred L. Parsons to the position of vice-chair of the Manufacturers Liaison committee. By November, Paul Donegan of the Committee reported the complete technical breakdown of the new Heath GR-54 receiver. Richard Wood of the Frequency Recommendations Committee was in an automobile accident and had been disabled for a few weeks which resulted in his committee being a little less active during the latter portion of 1965. Warren Nordgren of the committee had to decrease his efforts due to other more pressing situations. The Positive Frequency ID Recommendations subcommittee chaired by Doug Benson was disbanded after having completed its work. DXer Gerry Dexter, on an informal pilot basis, was looking into the problem of poor station verification policies.

DX Internationale ("DXI") affiliated itself with ANARC once again with Wayne Segal as its representative. The International Radio Club of America reorganized with Paul Kilpatrick as president. Its new representatives were K. G. (Gray) Scrimgeour and Dick Heiser. Don Jensen reported the loss of the NRC's first club representative to ANARC, Ray Edge, who died in an auto accident in October. The status of the Great Lakes Short Wave Club was unknown since they hadn't been heard from since April, 1965. There was much talk about the feasibility of forming a professionally published, all band DX magazine in many club bulletins. By December it became clear that Jim Howard would launch a new monthly printed magazine for DXers, called SWL News, in January 1966. Balloting results showed 10 in favor of accepting full affiliation of the West Indies DX Association with ANARC while three favored associate membership. No body voted to totally reject affiliation.

There were 12 "yes" votes for holding an ANARC convention in 1966 with only one vote against. Although no clear-cut winner in sites was determined, the opinion was defi-

nately the Great Lakes region. It was hoped that forming a convention would not fall flat on its face like many other ANARC activities that needed volunteers to make them happen. A committee was being put together to help develop the convention idea. A target date of January 31, 1966, was established for formation of the committee. To be successful, each of the clubs would need to promote the convention in their respective bulletins.

.....
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November's business closed with an idea from Wayne Segal of DXI: "DXI would like to suggest the establishment and maintenance of an ANARC Bank. This Bank would operate on the concept of the United Nations World bank. Its goal would be to aid member clubs which find themselves in sudden financial debt and chaos. Each club would be asked to contribute one certain set amount, say \$5, and this money would go into a savings account at a local bank in Racine in the name of the ANARC members where it would grow. Then should an organization suddenly find itself without funds for some emergency, it can communicate with the ANARC executive and, if the reasons weight sufficient merit, proper emergency funds will be appropriated. And when said club is "back on its feet" it can pay back the bank." Although the suggestion appeared to have merit, the reaction of the club representatives was decidedly negative, principally because of the problems of managing such a fund.

In December's business, Don reported a proposal of the IRCA to open up their convention scheduled for Milwaukee as a "joint

IRCA-ANARC convention." There was also an offer from a west coast DXer to host a convention in Los Angles. Guidance from the club representatives was sought since a joint convention and a western location were not considered in the original vote. The West Indian DX Association became affiliated with ANARC in January 1966. Margaret Hinkson became the clubs representative. Unfortunately, the American Central Radio Club discontinued operations primarily because the task of single handedly running a club after Richard Wood's motor accident became too much. The remaining membership subscriptions were transferred to the new monthly DXer magazine, SWL News. A last call was put out to find a host for the first ever ANARC convention. Two representatives wrote in support of the concept of a joint convention with the International Radio Club of America. Without further input from the club representatives, it was possible that the convention would not happen in 1966.

Don Jensen reported that Tom Gugleilmi had volunteered to establish a committee to contact various stations with poor verification policies, with the hope of convincing them to either begin replying to reports or modifying their verification practices along lines more satisfactory to most listeners. In closing January's business, Don reminded the club representatives that his term would expire in October and he would not be seeking reelection. Therefore, the representatives were encouraged to consider nominations for his successor. In May, he was still seeking out hobbyists to run for this important position. By February 1966, disappointment was evident as only a third of representatives favored a joint convention with the IRCA; a third were mildly to completely against; and a third did not respond. Without a clear positive direction from the representatives, Don thought it best to shelve the idea for 1966. In a special letter dated February 20, 1966, Don Jensen informed the club representatives that Jim Howard had offered to gather a committee of Kansas City, MO, listeners to host an ANARC convention. Feedback from the representatives was urgently requested. By March it was clear that a majority of the representatives, 10-2, favored the Kansas City location.

A Visit From My New Daughter-in-law

by Marlin Field

In my den I keep on display on a bulletin board some of my 790 plus pennants. I just had some there from Nicaragua, including those in Sam Barto's QSL report recently.

At Christmas time I decided to change them. I decided on Mexico as my son was coming home from California with his wife of six months and she had never visited us before. She happened to have been born in Mexico.

Her family now lives in the Los Angeles area, where her father is a member of a mariachi band. He provided part of the music at the wedding reception.

One of the first things our new daughter-in-law saw when she came into my study was the bulletin board. Pointing to the pennant in the center of the board, one from XEWW, she said, "My father used to work there. Sometimes I went to work with him."

More Thoughts From Your Editor

Radios, Antennas, and Lightning

By Jerry Lineback

First of all, we still need good articles for SWC. I prefer to use original material, but will republish previously published articles from other bulletins (with appropriate permissions) if necessary to fill the pages.

I got Zaaaaaaaaaped while I was on a trip over Labor Day weekend. When I got back, I noticed that 200 feet was missing from my 800 foot beverage. After picking up the shreds, it was apparent that it took a lightning strike, the bolt traveling toward the ends. When it reached the coax, which in this case was about 2/3 of the way along the antenna, it jumped down the coax and broke the insulation where the coax lay on the ground. I never leave anything connected and suggest you don't either. Therefore, no other apparent damage was done. With three beverages and two steel towers, I am a likely target. I am surprised I don't get hit more often.

I done tole you folks wrong. Before the 800 footer (oriented at @ 70 degrees) was vaporized, I noticed that the electrical noises it had previously picked up had mysteriously disappeared. Therefore, I was better able to compare the 70-250 degree antenna (neither end is terminated) reception with the 135-315 550 foot antenna. Given that they have unequal length and the 800 footer has a longer lead-in-about 60 feet, the 315 antenna is still always stronger for SE Asian stations

in the morning. On the other hand, in the evening, African stations are stronger on the 70 degree antenna and LA stations stronger on the 135 degree antenna. So they ARE directional after all on shortwave. Not that you can't hear all stations on both, but it is nice to know that directionality exists.

Last Sunday, I replaced the 70-250 antenna with the last 800 feet of my original mile of wire. The above observations continue to hold. In addition, I discovered that AIR Chennai on 4920 was fading in about 1230 and was significantly stronger on the 70-250 antenna just a couple of days before Equinox.

I received the 3.3 kHz filter for the Icom-746 and installed it. It makes a WORLD of difference in better audio on AM and SSB too. Anyone planning to use the 746 for shortwave listening too, should get the 3.3 kHz filter. A nice 4 kHz filter would be even better, but...

On my Labor Day trip to western Nebraska and Colorado, I took the DX-70 along. 10 meter propagation was really poor, but I used the radio for AM and SWL using the 10 m mobile antenna. My observation is that I could get the stronger shortwave stations on the international bands and local AM stations, but it needs more antenna for mobile DXing. The noise blanker reduced the motor noise nicely.



Digital Short-wave Broadcasting: The Quest Continues

Part 3

Last month we looked at the Thomcast approach for sending digital short-wave programming via parallel transmission techniques. We learned that the parallel technique had two important advantages over serial transmission. The spectrum of the composite parallel signal is more "rectangular", thus fitting better into the 10 kHz wide channel allocation. Another advantage is that the data rate of any single component of the parallel signal is $1/N$ the total data rate where N is the number parallel signals. The lower data rate makes the system inherently more tolerant of propagation-induced distortion and rapid fading.

This month we will look at some of the additional trade-offs the engineers must consider in establishing the final standard.

Transmitter Power Rating

For a given peak transmission power, the effective average transmitted power generally depends upon the modulation scheme. The issue of "crest factor" is important for determining the power handling characteristics of the short-wave transmitter. The crest factor is the ratio of peak power to average power for each proposed modulation scheme. The crest factor of a typical serial modem is 4-5dB. For a 100 kW transmitter, the average transmitted power is between 30 and 40 kW. For a parallel modem with a sufficient number of sub-carriers, the crest factor is 10-12dB. The same 100 kW transmitter would transmit only 10 kW or less average power under these conditions. To produce the same 30 to 40 kW of average power, the

transmitter would have to be rated for about 300 kW.

Field tests, conducted by Thomcast engineers, show that the parallel technique crest factor can be reduced to 4-5 dB without significant degradation of performance. The crest factor criterion is no longer a decisive advantage of the serial modem over the parallel modem in Thomcast's opinion.

Thomcast further concludes that the modulation scheme has no real effect on the crest factor of the parallel modem.

Required Receiver Computing Power

Considering two equivalent digital broadcasting systems (same bit rate, same bandwidth, same channel coding efficiency) the difference between the serial and parallel modem lies essentially in the receiver computing power devoted to synchronization and demodulation.

In the presence of variable propagation conditions, the computing power is constant and comparatively low for the parallel modem. Computing power required is higher for the serial modem and it rapidly increases with the "delay spread" of the propagation channel. Delay spread is the smearing effect of the ionosphere caused by multi-path effects. A smearing of the transitions between states of the modulation can confuse the detector leading to bit errors. Ordinarily digital signal processing techniques can be used to correct for delay spreading. In severe propagation

conditions like we find on the short-wave bands, the required computing power can even exceed the capacity of today's state-of-the-art low cost/low power consumption technologies. Thus parallel transmission appears to have the edge here too in the opinion of the Thomcast engineers.

USA Economic Issues

Short-wave receivers currently have a small segment of the total receiver market here in the USA and Canada. It is unlikely that a technique which is limited to short-wave transmission will have a sufficiently large enough market to achieve the necessary economies of scale. For digital short-wave receivers to be economically successful they should use technology that is common to medium wave digital receivers.

Consequently, a single solution is highly preferable. However, this is not likely to be the case in the USA. Here the IBOC (In Band On Channel) approach is most favored by the USA's commercial broadcasters. The IBOC technique emphasizes piggy-backing the digital signal on the existing analog signal so listeners who have only analog capability will not be lost. That consideration is very important here because there are few available frequencies in the medium wave band. Broadcasters have squatter's rights on their existing channels. So it is essential that these broadcasters retain their existing allocations and audiences as they transition to digital transmission.

Domestic commercial broadcasters are not interested in their skywave coverage. Most stations derive most of their income from advertisers located within the groundwave, daytime coverage pattern. The fact that medium wave signals can propagate a thousand miles at night is irrelevant to the commercial success of these stations. The design drivers for IBOC are not the same as for skywave transmission.

Because of this focus on the commercial aspects of the domestic market, IBOC research in the USA is concentrating on analog

compatibility issues, not on skywave propagation optimization. It is highly likely that the system that will be eventually adopted by the international broadcast community for short-wave will be incompatible with the USA's domestic digital transmission system. Whether receivers can be economically designed to serve both formats remains to be seen.

If a digital short-wave approach is optimized based solely on the technical issues described in this series of articles, it is quite possible that the market size for receivers will be so small as to make them uneconomical to design, produce and market in the USA.

The inevitable conclusion is that whatever system is adopted for digital short-wave broadcasting, it must also be adopted for domestic medium wave broadcasting throughout a major part of the world. The manufacturers will not have the US domestic market to count on for sales. It is unlikely, therefore, that you will ever see digital short-wave receivers at your local Circuit City or Wal-Mart store here in the USA. The receivers they will stock will be designed to serve the domestic medium wave IBOC technology.

If this happens, digital short-wave receivers in the USA will likely remain the province of a few specialty merchants catering to the immigrant, student, world music aficionados, and news-junkies. There will be no "hobby" market of DXers because reception of weak, noisy signals will be a thing of the past. Signals will either be noise free or not there at all.

The engineers at Thomcast think they have an answer for both medium wave and short-wave transmission which will also be compatible with analog signals during a transition period.

Next time we will look at Thomcast's specific design to learn its advantages and possible disadvantages. We will look at what the Thomcast engineers have decided on to satisfy both MW and SW needs. Until next time, stay tuned.



Listener's Notebook

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OCTOBER IS ONE OF THOSE "fahgeddiboudit!" months where the international broadcasters jostle each other for decent starting positions in the upcoming fall schedules, and SWL's go nuts trying to keep up with the frequency changes. I'll try to round up a good selection of skeds next month. In the meantime, fasten seatbelts before engaging receivers!

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AFRICA Tremendous opening to Africa on Sep 11 & 12 around 1730. Brazzaville was audible on 5985 at 1720. Malawi at 1725 English rx at 1800 on 5993 easily separable from Ethiopia 5990.5 and Radio Australia good on 5995. Nigeria in vernaculars at 1745 on 6049.92, and Kaduna in vernaculars good on 6090.0 c1810. Zambia 6265 was S9+ in vernaculars at 1740, and English rx 1800, //6165 which was mixing with what sounded Chad and Belarus. Rwanda 6055 is clear from about 1728-1758 and heard very loudly at S9 +10 dB. But no trace of Kenya 6150, nothing below DW 6140, where Burundi used to operate. A transmission also audible on 6025 under Hungary 6025 but impossible to ID. A weak transmission also audible on 6015, but probably not Africa. (13-Sep/Green-UK/BC-DX/Bueschel-GER)

ANTARCTICA 15475.7 *Radio Nacional Arcangel San Gabriel*, 1943-2004, easy songs, W speaker in Spanish, mx bridges. At 1954 pop mx, at 2003 followed by more short announcements and mx bridges. Bad modulation. (10-Sep/Veldhuis-HOL/BC-DX/Bueschel-GER)

AUSTRALIA After closing down its Darwin transmitting station in a cost-cutting move, *Radio Australia* now finds itself in need of broadcasting capacity to reach troubled East Timor. To fill that need, RA has leased six hours of airtime per day from Merlin transmitters in Taiwan, and is looking to buy additional hours from the Singapore station. (Berg-USA, Hauser-USA, Figliozzi-USA/BC-DX/Bueschel-GER)

Coverage into Indonesia on higher freqs from Darwin is not effective, due to skip effects. Darwin is only 800 kms from East Timor-INS. This may be the reasoning for the use of the Taiwan and (proposed) Singapore relays. The Darwin station had historically used 6 MHz freqs for coverage of Indonesia during the Indonesian darkness periods 2100-

2300 and 0800-1130, and moving up to 9 MHz for the breakfast period 2200-0030. (16-Sep/Padula-AUS/EDXP/BC-DX/Bueschel-GER) Now on 11550 in Indonesian from 2300-2400 via Radio Taipei international, Taiwan. (11-Sep/Yamada-JPN/BC-DX/Bueschel-GER) Also 0900-1000 in English on 11550. (16-Sep/Padula-AUS/EDXP/BC-DX/Bueschel-GER)

BELGIUM RTBF is testing from their old shortwave in Wavre, Belgium. The schedule is Tuesday and Thursday, 08 to 14, on 9925. RTBF has also been leasing shortwave time from Deutsche Telekom in Jülich, Germany, for French-language broadcasts to Africa. (18-Sep/BBCM/Elliott, VOA/Norfolk-OK/World Of Radio/Hauser-OK)

BELARUS Just noted *Belorussian Radio* 6100 // 7140 with Hrodna rx at 1500. Good signal and loud modulation. 5965 was //7145, both listed as Mahiliou. This one had shallow or very shallow modulation. 5965 very weak here, 7145 also rather weak. The other BR1 channels (6070, 6080, 6165) had the Minsk progr RS Stalica. (= 6115, 7210). (10-Sep/Alm-SWE/BC-DX/Bueschel-GER) 5965 not monitored here in recent months by Noel Green and yours truly. We suggested that this channel replaced by 6080. [?] (BC-DX/Bueschel-GER).

BOLIVIA 4549.4, *Rdif Tropico*, 0010 Baladas and soft LAM pop music; 0022 signoff routine by mari, mentioning they'd be back at 5:00. Short orchestral flourish and off. (17-Sep/Novello-NC)

CENTRAL AFRICAN REPUBLIC Radio Minurca is back on 9900. The reception was so poor that I have to hear it on USB mode. At 1925 musical prog then at 1930 talk in French. Centre Afrique has been mentioned many times then probably the same message in English, then followed by a debate on politics in Af lang with some French words Such as program, Afrique Joeux Noel as well as..."presente

par Radio Minurca." (5-Sep/Vaghjee-MAU/World Of Radio/Hauser-OK) According to station director David Smith, they are using: Micom transmitter on 9500 at 0600-1600, 5900 at 1600-0600; and 1 kW 9900, 24 hrs/day. The 125 Watter is picked up loud and clear in northern Cameroun, about 700 km NW of Bangui. 9900 is targeted east-west, and is heard well in Berberati in the west and Bangassou in the east. They did have a budget to buy a more powerful transmitter; however, the commissioning time line was too long, and they couldn't justify the purchase (they would have missed the key presidential election period).

Officially, this UN mission (MINURCA) ends on Nov-15 this year, and R. MINURCA is set to close at that time. They are working behind the scenes to come up with a viable plan that will keep radio here. David Smith advises that "it certainly wouldn't hurt if SWLs wrote to the UN's department of peace-keeping operations and highlighted the importance of SW information broadcasts. Reception reports, postcards and even a few photos of listeners are proudly displayed on our newsroom walls!" (7-Sep/Berg/NU/EDXP/Padula-AUS)

CHINA Here are more new **CRI** freqs from Sep 5th:

0300-0400 Russian 15110 (x15120)
 0900-1100 English 11730//15210
 0900-1000 Mandarin 17785
 1000-1100 unk. 17785
 dialect
 1100-1200 Cantonese 15440 17785
 1200-1300 Mandarin 17785
 1300-1400 English 7405 (not certain this is
 new) 11900
 1400-1500 English 9700
 1500-1600 Hindi 9615
 1600-1700 Arabic 9670 (x13685)
 1600-1800 Russian 7235 (x15415)
 1700-1800 Cantonese 9640 (x7265)
 1700-1900 Russian, 9670 addit
 Persian
 1730-2100 Mandarin, 11790 addit
 Ar, FF
 1730-2230 Mandarin, 7110 (x11760) and 7160
 FF (x15165)
 1800-2100 RR/Cz/ 7150 (x15415)
 Polish
 2000-2100 English 11840 //7590 9440 9535
 2000-2100 Mandarin 7225 (x7185) and 9685
 (x11750)
 2100-2200 Arabic 9685 (x11750)
 2100-2130 English 7150 (x15415)
 2100-2300 Spanish 6020 (x11775)
 2200-2300 English 7175 (x9880)

(13-Sep/Timofeyev-RUS + Nagoya DXers' Circle/
 EDXP/Padula-AUS +Observer-BUL/BC-DX/Bueschel-
 GER)

There have been also been many changes to the schedule of **China National Radio**, dom sce bcs, including the use of the new freq of 7230 for Network One, audible in Melbourne from around 0900. (15-Sep/Padula-AUS/EDXP/BC-DX/Bueschel-GER)

**Central People's Broadcasting Station (CPBS)/
 China National Radio (CNR)**

CPBS First Program

0000-0100 Mandarin 5880 5915 5955 6030 6125
 6750 7395 9645 9675 10260
 11630 11825 11860 11925
 11960 12030 15390 15480
 15550 17550 17580
 0100-0200 Mandarin 6030 7504 7935-(to 0130)
 9675 10260-(to 0130)
 11630-(to 0130) 11825-
 (from 0130) 11860 11925
 11960 12030 15390 15480
 15550 17550 17580
 0200-0300 Mandarin 6030 7504 9645 9675 11825
 11860 11925 11960 12030
 15390 15480 15550 17550
 17580
 0300-0600 Mandarin 6030 7504 9645 9675 11860
 11960 12030 15390 17480
 17550 17580
 0600-0900 Mandarin 6030 7504 9645 9675 10260
 11630 11860 11960 12030
 13760-(from 0700) 15390
 15480 15550 17550 17580
 0900-1100 Mandarin 6030 7504 9645 9675 10260
 11630 11825 11860 11960
 12030 13760 15390 15480
 15550 17550 17580
 1100-1400 Mandarin 5880 5955 6030 6110 6125
 6750 7504 7935 9645 9675
 9800 10260 11630 11825
 11860 11960 11965 12030
 15390 15480 15550 17550
 17580
 1400-1730 Mandarin 4460 5880 5955 6030 6110
 6125 6750 7290 7305 7345
 7504 7935 9655 9675 9800
 9830 9845 11860 11965
 12030 17580
 2000-2200 Mandarin 4460 5880 5915 5955 6030
 6110 6125 6750 7290 7305
 7345 7504 7935 9655 9675
 9830 9845 10260 11630
 11860 11925
 2200-2230 Mandarin 4460 5880 5915 5955 6030
 6125 6750 7290 7305 7504
 7935 9645 9655 9675 10260
 11630 11860 11925 12030
 2230-2300 Mandarin 4460 5880 5915 5955 6030
 6125 6750 7305 7345 7504
 7935 9645 9655 9675 10260
 11630 11860 11925 11960
 12030 15480 17550 17580

2300-0000 Mandarin 5880 5915 5955 6030 6125
6750 7504 7935 9645 9655
9675 10260 11630 11825-
(from 2330) 11860 11925
11960 12030 15390 15480
15550 17550 17580

CPBS Second Program

0000-0130 Mandarin 7200 9810 11610 11660
11670 11800 15285 15500
15540 17700

0130-0230 Mandarin 7200 9810 11610 11660
11670 11710 11800 12080
15285 15500 15540 17700

0230-1100 Mandarin 7200 9500-(from 0200)
9810 11610 11660 11670
11740 11800 12080 15285
15500 15540 15570-(to
0300) 17700

1100-1200 Mandarin 7200 9500 9810 11610
11660-(to 1200) 11670
11740 11800 12080 15285
15500 15540 17700

1200-1300 Mandarin 7200 9810 11610 11670
11800 15285 15500 15540
17700

1300-1330 Mandarin 7200 7470 9775 9810 11590
11610 11670 11710 11800
15285 15500 15540

1330-1400 Mandarin 7200 7470 9775 9810 11590
11610 11670 11710 11730
11800 15285 15500

1400-1500 Mandarin 7200 9745 9810 11590
11610 11670 11710 11730
11800 15500 17470

1500-1600 Mandarin 7200 9500 9745 9810 11610
11670 11710 11730 11800
15500 17470

2100-2200 Mandarin 7200 7315 9500 9745 9755
9775 9810 11610 11670
11710 11730 11800

2200-2300 Mandarin 7200 7315 9500 9755 9775
9810 11610 11670 11710
11730 11800

2300-2330 Mandarin 7200 9500 9755 9775 9810
11610 11670 11710 11730
11800

2330-0000 Mandarin 7200 9500 9810 11610
11660 11670 11800 15285
15500 15540 17700

Broadcasts For National Minorities

0030-0130 Tibetan 11375 15670

0130-0230 Uygur 10260 11375 11630 15670

0230-0330 Kazakh 10260 11375 11630 15670

1000-1100 Korean 1206 8566 9920

1100-1200 Mongolian 4190 9920

1200-1300 Tibetan 4820-Lhasa 5950-Lhasa
6110-Lhasa 6130-Lhasa
6200-Lhasa 9565 11375
11740 15670

1300-1400 Uygur 3990-Urumqi 4735-Urumqi
10260 11375 11630 15670

1400-1500 Kazakh 4970-Urumqi 5440-Urumqi
10260 11375 11630 15670

1500-1600 Mongolian 4980 10260 11375 11630
15670

2130-2226 Korean 8566 9920

2330-0030 Mongolian 4190 9920
(BBCM)

CHINA-TAIWAN Radio Taiwan International's
Korean service is now sked 2100-2200 (ex-2300-
2400) on 11550. (12-Sep/Yamashita, NHK/SWR/
Hauser/BC-DX/Bueschel-GER) A new service in Man-
darin is noted 2100-2200 on 11745. (11-Sep/Padu-
la-AUS/EDXP/BC-DX/Bueschel-GER)

CBS - Taipei International Voice (to mainland
China) has also rearranged its schedule since early
Sep, and is noted opening at 2200 on new 11860;
11725, 9610 and 15125 in Mandarin. (11-Sep/Padu-
la-AUS/EDXP/BC-DX/Bueschel-GER)

**Central Broadcasting System / Taipei Interna-
tional Voice**, broadcasts to mainland China:

CBS Variety Network

0100-0200 Mandarin 9280

0200-0400 Mandarin 9280 11970

0400-0500 Mandarin 6085 9280 11775 11840
11970

0500-0700 Mandarin 6085 11775 11840 11970

0700-0800 Mandarin 6085 7285 11840 11970

0800-1000 Mandarin 3335 6085 7285 11840
11970

1000-1100 Mandarin 3335 6085 7285 11840

1100-1500 Mandarin 3335 6085 6180 11840

1500-2000 Mandarin 3335 6085 6180 11840
15125

2000-2200 Mandarin 3335 6180

2200-0000 Mandarin 3335 6085 6180

CBS News Network

0000-0100 Mandarin 6040 9610 9630 15125

0100-0200 Mandarin 6040 9630

0200-0300 Mandarin 6040

0300-0400 Mandarin 6040 9610

0400-0500 Mandarin 6040 7105 9610 11725

0500-0600 Mandarin 7105 9610 11725

0600-0700 Mandarin 11725

0700-0900 Mandarin 7105 11725

0900-1100 Mandarin 6040 6180 7105 9630 11725

1100-1130 Mandarin 6040 7105 9610 9630 11725

1130-1200 Mandarin 6040 7105 9610 11725

1200-1400 Mandarin 6040 7105 11725

1400-1500 Mandarin 6040 7105 9610 9630 11725

1500-1600 Mandarin 6040 7105 9630 11725

1600-1800 Mandarin 6040 7105 9630

1800-1900 Mandarin 6040 7105

1900-2200 Mandarin 6040 7105

2200-0000 Mandarin 6040 7105 9610

CBS Dialect Network (Cantonese)

0000-0100	Cantonese	9690
0100-0200	Cantonese	9690 11550
0200-0500	Cantonese	9690
0500-0600	Cantonese	11825 11915 15270 15345
0900-1000	Cantonese	9690
1000-1100	Cantonese	7445 9610 9690 11915 15270
1100-1200	Cantonese	9690 15270
1200-1300	Cantonese	9690 9765
1300-1400	Cantonese	9690 9765 15345

CBS Dialect Network (Hakka)

0000-0100	Hakka	11745
0100-0200	Hakka	15345
0200-0300	Hakka	7130 15125
0300-0400	Hakka	7130
0400-0500	Hakka	11745
0900-1000	Hakka	15345
1000-1100	Hakka	1206
1100-1400	Hakka	11860 15345
1400-1500	Hakka	9765 15345
1500-1600	Hakka	9610
2100-2200	Hakka	11745

CBS Dialect Network (Amoy)

0000-0100	Amoy	11550
0200-0300	Amoy	11550 11915
0500-0600	Amoy	11745
1000-1100	Cantonese	7130 11550 15345
1300-1400	Cantonese	7130 9610 11860

CBS Dialect Network (Mongolian/Tibetan/Uighur)

1000-1100	Mongolian	11905
1100-1200	Tibetan	11905
1200-1300	Uyghur	11905

(BBCM)

CLANDESTINE—AFRICA National Democratic Alliance (*Voice of Sudan*), believed to broadcast from studios and transmitters in Asmara, Eritrea.

0400-0600	Arabic*	8000v
1330-1530	Arabic	8000v
1600-1800	Arabic*	8000v 12004v

*occasional English (BBCM)

Voice of Truth (Arabic: Sawt al Haqq) supports the Islamic Salvation Movement (Harakat Hamas al-Islamiyah), formerly the Eritrean Islamic Jihad Movement. The group has stated that their goal is to overthrow the current president of Eritrea and replace him with a Muslim. Voice of Truth appears to share transmitting facilities with another Eritrean opposition radio station on the same frequency—Voice of Democratic Eritrea. The transmitter is believed to be located in Sudan.

1430-1530 Arabic/Tigrigna 8020

(BBCM)

Voice of Democratic Eritrea - The Voice of the Eritrean Liberation Front Revolutionary Council (Arabic "Sawt Eritrea al-Dimuqratiya—Sawtu Jabhat al-Tahrir al-Eritrea") is hostile to the government of Eritrea. It appears to share transmitting facilities with Voice of Truth (see above).

1400-1430 Arabic/Tigrigna 8020 (BBCM)

CLANDESTINE—ASIA *Democratic Voice of Burma* (Burmese: "Democratic Myanmar a-Tham") operates daily:

1245-1345	5945 15600 17750
1430-1455	5945 11850 15605 17550 17750

Languages are Burmese, Shan, Karen and Kayan. It is hostile to the current Burmese government (the "State Law and Order Restoration Council," SLORC). (19-Sep/BBCM/BC-DX/Bueschel-GER)

CLANDESTINE—LATIN AMERICA (COLOMBIA)

New on 6095 is *Voz de la Resistencia del Bloque Oriental*, *1130-1230*, Sep 11, first emission, and also noted on second emission 2130-2230 on this new freq. (12-Sep/Gaviria-CLM, CONDigi/BC-DX/Bueschel-GER) Schedule of FARC *Voz de la Resistencia*, from their chief engineer:

Bloque Sur daily 1100, 1700, 2130 on 6240*Comando Conjunto Central* daily 1300; 2000 on 6240*Bloque Oriental* daily 1130, 2130 on 6170*Comando Conjunto Occidental* Sundays 1300 on 6240*Zona de Despeje* [literally, cleared zone] area del Caqueta daily 1800 on 6240

(Cotroneo-COL/Play DX/Mundo Radial/World Of Radio/Hauser-OK)

CONGO—BRAZZAVILLE Television Congolaise (RTC) usually identifies itself as *Radio Congo*. This schedule is based entirely on monitoring observations. Shortwave frequencies used in the past but not recently confirmed include 3265, 4765, 6115, 7105 and 15190 kHz. Apart from the VHF/FM frequencies listed below, which are audible in the Brazzaville area, other FM transmitters may operate elsewhere in the country. The RNC regional station at Point Noire, which used to carry its own programs as well as relays of Brazzaville, has not been confirmed. It the past it broadcast on shortwave (4843 kHz) and mediumwave (1520 kHz). However, it may still operate locally on VHF/FM only. Languages are French, Lingala, Kikongo and Subia.

0430-0700 Multilingual 5985

0700-1600 Multilingual 9610

1600-2130 Multilingual 5985

(BBCM)

COSTA RICA Radio Universidad continues to be heard on 6105, clearly after NHK via CAN 6110 and DW- WER 6100 go-off at 0600. Slogan is "La Emisora Cultural de la Universidad de CTR" (not La Voz). It does appear to stop broadcasting at 0608, but leaves carrier on. Two others have been fading up about 0615, but not sufficiently strong or clear enough to copy. One plays 1950's popular mx—"Autumn Leaves" seems to be a favorite one, and "Somebody Loves you, I don't know who" is another they enjoy playing. (3-Sep/Green-UK/BC-DX/Bueschel-GER)

CUBA Radio Havana Cuba (BBCM)

0000-0030	Creole	9550
0000-0030	Quechua	15340
0000-0100	Spanish	5965 6000 9505 9820 11760 11875 11970 15230
0100-0200	Spanish	5965 9505 11760 11875 11970 15230
0200-0500	Spanish	5965 6000 9505 9550 11760 11875 11970 15230
0030-0100	French	9550
0100-0130	Creole	9550
0100-0500	English	6000 9820 11705
0130-0200	French	9550
0500-0700	English	9550 9820 9830
0700-0730	Esperanto	9820
1100-1200	Spanish	6000 11705 11760
1200-1300	Spanish	6000 9550 11705 11760 15250
1300-1400	Spanish	6000 9550 11760 15250
1400-1500	Spanish	11760
1500-1530	Esperanto	11760 Su
1930-2000	Esperanto	13750 Su
2000-2100	Portuguese	11760 13680
2000-2030	French	13750
2030-2130	English	13750
2100-2300	Spanish	11705 11760 13680
2130-2200	Creole	9550
2130-2200	French	13660 13750
2200-2230	Portuguese	15340
2200-2230	French	9550
2200-2230	Esperanto	13750 Su
2230-2330	English	9550
2230-2300	Guarani	15340
2300-2330	Portuguese	15230 15340
2330-0000	Portuguese	15230
2330-0000	Esperanto	9505 11760 11970 Su
2330-0000	French	9550
2330-0000	Guarani	15340

The **China Radio International** relay is now scheduled:

0100-0157	English	9570
0200-0257	Chinese	9570
1200-1257	Chinese	9570

1300-1357	English	9570
2300-2357	English	5990

(16-Sep/Nagoya DXers' Circle, EDXP/BC-DX/Bueschel-GER)

11760 **Radio Reloj**, 1515 with its usual time ticks, news and ID every minute. Plug pulled 1517. Also on 15230 from 1548 tune-in until 1600, when announcer gave time checks for San Jose, Costa Rica; Panama City, New York, and Santiago de Chile, among others; doorbell sound effect played for each time mentioned. Dropped modulation in the middle of this, but kept carrier up until 1602. (16-Sep/Novello-NC)

DOMINICAN REPUBLIC 4960.12, **Radio Villa-La Sencilla**, Santo Domingo, 0010 Sep 21, nearly continuous bachata mx, occasional M announcer. Ad for Banco Popular in Santo Domingo, then man with ID followed by singing ID around 0035, occasional interjections of "R Villa." Listed in WRTH on 1330. Ex-R. Cima, last reported in November 1998. (21-Sep/Novello-NC/World Of Radio/Hauser-OK)

GERMANY Brother Stair changes via DTK/JUL from Sep 7 (all adds unless otherwise noted):

0100-0200	9835
0300-0400	11710
0400-0500	15225
0400-0600	9425
0600-0700	13810 retimed (x0600-0800)
0800-0900	13810 retimed (x0800-1000)
1400-1600	6010 is deleted
1600-1700	13810 retimed (x1600-1800)
2000-2100	3965 retimed (x1700-2100)
2200-2300	5995 9715 9795 9875 11655

(15-Sep/Observer-BUL/BC-DX/Bueschel-GER)

Additional time of **Voice of Hope** in English via DTK:

1700-1800	11725
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(15-Sep/Observer-BUL/BC-DX/Bueschel-GER)

Deutschlandfunk (DLF) from Cologne runs 24 hours on 6190 in German. (BBCM)

INDIA The Indians are starting to roll into town so I thought I'd check out the action. It's a little early in the season yet but they're making a good appearance. Right now they're appearing for up to about two hours. In October they've been known to hang around for up to five or six hours!!

This bandscan was done using the trusty AOR 7030 and an 800' beverage aimed at India, using a 10:1 matching transformer and RG-58 lead-in. The bandscan covers the thirty minute period of news

relayed from New Delhi in Hindi (1515 UTC) and then English (1530 UTC) ("News at Nine") to establish parallel programming and for ID purposes. I listed everything shown in the WRTH and Klingenfuss for this time period.

3223	Shimla	//, weak
3245	Lucknow	not heard
3255	Shillong	not heard
3305	Ranchi	not heard
3315	Bhopal	//, good
3345	Jaipur	not heard
3355	Kurseong	not heard
3365	Delhi	QRM—no determination
3390	Gangtok	//, fair
3945	Goarakphur	not heard
4760	Port Blair	//, good
4775	Imphal	//, good (heavy UTE QRM)
4800	Hyderabad	//, fair/good
4820	Calcutta	//, fair/good
4840	Mumbai	//, good
4850	Kohima	//, very good
4860	Delhi	not //, good
4880	Lucknow	//, fair/good (QRM de CRI Russian 4883)
4895	Kurseong	//, good
4910	Jaipur	//, good
4920	Chennai	//, good/very good
4930	Shimla	not heard (QRM de RRI Jambi 4925)
4940	Guwahati	//, fair (unid QRM)
4950	Srinigar	//, weak (QRM unid Chinese)
4970	Shillong	//, good/very good
4990	Itanagar	//, very good
5010	Trivandrum	not heard
5040	Jeypore	//, very good
5050	Aizawl	//, fair/good (heavy QRM de Guangxi)

I'd like to think I heard everything that was on the air but that's probably not rational thinking, especially with the 90 meter stations. (29-Aug/Tilbury-AK)

INDONESIA 3224.8 **RRI Tanjung Pinang**, local news at 1135 and the ending music was "Garuda Pancasila" with chorus. After the news, ID and Indonesian music. Poor. (18-Sep/Yamada-JPN/Jembatan DX)

4874.52 **RRI Sorong**, at fair level 1058 with local IS (Hawaiian guitar/Island flavour) repeated to TS 4 + 1 long pip at 1100. Short theme and into light Lagu Popular with M announcer taking occasional phone requests to fade after 1130. (19-Sep/Ward-CAN/Jembatan DX/Yamaada-JPN)

4927.0 **RRI Jambi**, local pops at 1620. ID by M at 1628 as "Inilah Radio Republik Indonesia Jambi"

then IS and local news entitled "Warta Berita Daerah." Also 3355.4kHz could be picked up with faint audio at the same time. (17-Sep/Yamada-JPN/Jembatan DX)

6069.8 **RRI Jayapura**, Indonesian pops & English pops. Fair to poor. (10-Sep/Yamada-JPN/Jembatan DX)

6153.42 **RRI Biak**, fair with light vocal from TI 1057 18 Sept. Rolled music out to dead air at 1059, then local IS and man announcement from 1101. Short hymn on organ and what appeared to be Christian late-night benediction-style program in Indonesian till 1111, when into light folk-style songs featuring local artist. Included "Blowing in the Wind" at 1122. No sign of Jakarta news. Benediction also heard Sept 17 at same time much weaker. Less splatter from 6150kHz on K9AY NW loop. (17 & 18-Sep/Ward-CAN/Jembatan DX/Yamaada-JPN)

9255.0 **RRI Jakarta**, Cimanggis, interfered with V.O.Indonesia Japanese program till 1200 and Indonesian program from 1200 was inactive today. The transmitter is apparently different with the overseas service on the same frequency. ID of Programa Nasional Satu was often heard. Signed off at 1300. Fair. (15-Sep/Yamada-JPN/Jembatan DX)

15149.9 **V.O.Indonesia**, Cimanggis, German program at 1818. Indonesian pops including "Cintailah Aku," Javanese traditional music, and news. Closing announcement with Love Ambon at 1859. When I visited V.O.Indonesia studio at the end of August, staff said reception reports from European country were few and condition in Europe was not so good. (14-Sep/Yamada-JPN/Jembatan DX)

All-night wayang kulit program is broadcast by some RRI stations. It is usually heard at local night on Saturday. Here are the stations on which I heard all-night wayang kulit recently:

3395.1 **RRI Bandar Lampung**
 3985.8 **RRI Surabaya**
 4925.0 **RRI Jambi**
 (Yamada-JPN/Jembatan DX)

Radio UNAMET via **RRI Dili** seems inactive now. According to the home page of UNAMET, last program is September 2. (Yamada-JPN/Jembatan DX)

MALAYSIA The **Voice of Islam**, Kuala Lumpur, has introduced a new service in English. This is on the air 0300-0555, 15295 9750 and 6175. Intended target area is believed to be Asia and Australia; 15295 noted with excellent signals here in Melbourne. (11-Sep/Padula-AUS/EDXP/BC-DX/Bueschel-GER)

MALDIVES The Maldives is a beautiful string of 1,190 low-lying coral islands scattered across the equator in the vast expanse of the Indian ocean. Out of these islands, only 201 are inhabited by local people, and 98 islands are developed exclusively as tourist resorts, while rest of the islands are uninhabited.

Archaeological and historical discoveries indicate that the islands have been inhabited for over three thousand years. Being on an important trade route, Maldives was visited by people from all over the world, particularly from Asia, Africa and Middle East. These visitors left a strong influence on the people, their religion and the culture of the Maldives. During my recent trip to the Maldives, I visited the radio station at Male (area: 1.77 sq. kms). *Voice of Maldives* with its 10kw MW transmitter on 1449kHz reaches most inhabited islands of the Maldivian archipelago. The transmitter is housed in a two storey building on Moonlight Hignun. Across the road, sans any fences were two quarter wave dipole antennas, vertically polarized. The studios, located a few metres away feed the programs by a cable to the transmitter site.

Voice of Maldives begins transmissions at 5.25 (0025 UTC) in the morning and continuously broadcast until sign off at 10.45pm (1645 UTC) A dedicated English program is on the air daily from 1200—1400 UTC. with news at 1300 UTC. The rest of the programs are in the national language, Dhivehi.

Radio and TV are government-owned and the administration uses it effectively to promote gov. policies. Since the TV transmissions are restricted to Male and adjacent atolls, the radio plays a dominant role to educate and entertain the 270,000 Maldivians. Mr. Maizan Ahmad Maruku, who heads the engineering division of *Voice of Maldives* estimates that 90% of Maldivians listen to the *Voice of Maldives* on mostly inexpensive one or two band transistor models. Throughout the day, I could listen to the station without any difficulty from a resort 150km north of Male. Perhaps, the old timers could remember the crackling sound of Radio Maldives on 4740kHz in the 1970's. Alas, it is no more. Maldives ceased short wave broadcasts about 20 years ago. The ageing SW transmitter and the antennas are no longer in existence.

Mr. Maniku says that *Voice of Maldives* is keen to resume SW operations. A study is to be undertaken shortly to evaluate the feasibility of a SW service. Thereafter, finances have to be raised to buy the equipment. All these might take a couple of years. Until then, *Voice of Maldives* will remain a dream station to many Dxers outside South Asia. (10-Sep/Weerakoon-SRI)

MALI From Sep 6, the Mali relays of *China Radio International* are scheduled:

0830-0857	Hausa	7170
1300-1357	French	17880
1400-1457	English	15125 13685
1500-1557	English	15125 13685
1600-1657	Arabic	17880 15125
1700-1727	Swahili	15125 11970
1730-1757	Hausa	9890 11970
1800-1827	Hausa	9890 11970
1830-1927	Arabic	15530 13685
1930-1957	Portuguese	15500 11975
2000-2057	English	15500 11975
2100-2127	English	15500 11975
2130-2227	French	15500 11975
2230-2257	Mandarin	15500 11975
2300-2357	Mandarin	7170 11975

(17-Sep/Nagoya DXers' Circle-JPN/EDXP/BC-DX/Bueschel-GER)

NAMIBIA I've been hearing traces of a signal in Dutch [Afrikaans] lang on 7215 at 0600+ after RL goes off 7220. (10-Sep/Green-UK/BC-DX/Bueschel-GER). Namibia on 7215 at 0545 in German, changing to Afrikaans at 0600, announcing 1000 closedown. Heard at 1600 also. (17-Sep/Pitot-RSA/HCDX/BC-DX/Bueschel-GER) Yes, *NBC* Namibia has been heard on 7165 and 7215 around 0300 since August. 3270 and 3290 off and on, possibly due to technical problems. (17-Sep/Vaghjee-MAU/BC-DX/Bueschel-GER)

OMAN 15140 While scanning the SW bands I came across *Radio Sultanate of Oman* in English at 1425 tune-in. Program consisted of local annts, local TC 1830 (1430 UTC), nx by W, ID 1436 followed by pops. Into Arabic at 1500 abruptly. Are they back with English service or was this a switching error? Also heard on the 18th at around 1505 briefly in English then abruptly into Arabic around 1512. (20-Sep/Southwell-UK/BC-DX/Bueschel-GER) R. Sultanate, from Muscat, good signal in English daily 2300-2400 UT on 9735, such as Aug 10-11 (Sonya Van Zoest, Amsterdam, Netherlands, reporting for my column in CIDX Messenger) Such a broadcast is news to us, but she includes a copy of her QSL card printed in English for 1-6-1999 on 9735 at 2300-2400, signed by Salim Jamal Al-Nomani, Director of Frequencies, from R. Sultanate of Oman, Ministry of Information, P O Box 600, Musqat; fax (968) 604 629. I checked the other day and couldn't hear it here (17-Sep/Hauser-OK)

PAKISTAN Some freq changes of *Radio Pakistan*:

0500-0700	Urdu	17835v (x17555) // 15175v, 21460v
1700-1730	Turkish	11645 (x11640, re- x11600) //13580
1800-1900	Urdu (Islamabad program)	15175v (x11600)

(15-Sep/Observer—BUL/BC-DX/Bueschel-GER)

Urdu ME workers service of **Radio Pakistan** noted at 0500-0700 15175.20 (API-5) 17835.10 (API-1) 21460.17 (API-6) (7-Sep/Bueschel-GER/BC-DX)

PERU 5016.6, **Radio Horizonte**, Chachapoyas, Amazonas, 2355 W DJ with mix of Andean vocals, LAmp pop music, ranchera-sounding stuff, plenty of TCs, IDs, and mentions of Chachapoyas. (16-Sep/Novello-NC)

6115 **Radio Union** 2232 ID: "Radio Union, la mas potente del pais," other stn's promos repeating "la mas potente del pais." (13-Sep/Nigro-URU)

PORTUGAL RDP (Radiodifusao Portuguesa) targets East Timor in Portuguese and Tetum (Timorese lang) from sites in Portugal (P) and Taiwan (T) per this sked:

0000-2400 17600P 17740P
1000-1100 11550T
2200-2300 11550T

(10-Sep/Ribeiro-POR/HCDX + Observer—BUL/BC-DX/Bueschel-GER + Hauser-OK)

ROMANIA Updated schedule of **Radio Romania Aktualitati**:

0500-0800 9570 9690
0800-1700 11790 15105
1700-2000 9690 11790
2000-0500 7215 9690

(15-Sep/Observer—BUL/BC-DX/Bueschel-GER)

RUSSIA Some freq changes of **Voice Of Russia** from Sep 5:

1300-1600	Hi/Ur/Hi/Be	13755 (x13615)
1400-1500	Turkish	7325 11695 (ex-7300, 9820)
1500-1600	Russian	11695
1500-1700	Alb/Serbian	12000 12040
1600-1700	Arabic	11695
1600-1700	English	15540
1600-1700	German	7380
1600-1900	French	12020
1600-2000	French	12005
1700-1800	Bulgarian	9785 9795 12000 //9470
1700-1800	Italian	12040
1700-1900	Hu/Cz/Slovak	7380 11630
1800-1900	Greek	12000 12040
1900-2000	Russian	12040
1900-2100	EE/RR/GG/	to Kosovo 9490 9710
	FF/Serb/Alb	(x11980, 12000) //7350
2100-2230	Serbian	9710 (x12000) //7350

(15-Sep/Observer—BUL/BC-DX/Bueschel-GER)

The only shortwave transmitter currently devoted to carrying **Radio Mayak** programming is callsign RV-704 on 4520 kHz, 5 kW, sked 2300-1900 (summer) and 0000-2000 (winter). Transmitter location

is Khanty-Mansiysk. Mayak is also relayed via military transmitters and by a transmitter in Turkmenistan (4930 kHz) (Rudnev-RUS)

Radio Yunost, callsign RV-214, 15 kW, transmits from Yakutsk from 1900-1500 (summer) and 2000-1600 (winter). It's the only shortwave transmitter in Russia still carrying Radio Yunost. (Rudnev-RUS)

Inactive Transmitters, which once carried regional programs:

4030 RV-215 Anadyr (15 kW)
4050 RV-676 Yuzhno-Sakhalinsk (15 kW)
4485 RV-656 Petropavlovsk-Kam. (100 kW)
4520 RV-667 Palana (2 kW)
4610 RV-737 Komsomolsk-na-Amure (15 kW)
4860 RV-438 Chita (80 kW)
5015 RV-441 Tavrichanka (100 kW)
7185 RV-1094 Perm (3 kW)

(Rudnev-RUS)

Radio Mariya in Polish via Samara from Sep 5:

1500-1700 (x1500-1930) 12010
1700-2200 (x1930-2200) 7380

(15-Sep/Observer—BUL/BC-DX/Bueschel-GER)

Voice of Tararstan Programming is mainly in the Tatar language except for Wednesdays when it is in Russian. This schedule is based on monitoring observations:

0400-0500 Tatar/Russian 11665-Samara
0600-0700 Tatar/Russian 9690-Samara
0800-0900 Tatar/Russian 11925-Samara

(BBCM)

SOUTH AFRICA Channel Africa freq change. An outstanding clear reception on the 16th of Sep of Channel Africa at 1800 in English on 17870, 1830 in French. (17-Sep/Montgomery-USA/HCDX/BC-DX/Bueschel-GER)

Channel Africa in English/Portuguese 1600-1655 on new 9525, ex-6150 to avoid Singapore. (15-Sep/Observer—BUL/BC-DX/Bueschel-GER)

SUDAN Sudan National Radio Corporation (SNRC) The General program has been unheard on shortwave since June 1999. Its shortwave frequency usage was erratic and varied between 9000 and 9400 kHz. Sked 0300-2300 (BBCM)

UKRAINE Radio Ukraine International, Kiev. The last powerful transmitter of 1000 kW in Lvov was switched off from Sep 2. This operated 0500-1200 on 21520 and 2200-0400 on 9945. Thus, another Ukrainian site is off the air, joining dark senders at Nikolayev, Kharkov and Kiev. All that remains is Brovskiy (Kiev) with four transmitters of total

power 100 kW. All the mentioned centres ceased their work due to financial and technical reasons, as the lack of spare parts for equipment, that Ukraine doesn't produce.

0000-0100	6020 9560
0100-0200	6020
0200-0400	6020 9620
0400-0500	6020 9560 9620
0500-0600	9560 9620
0600-1600	6020 6130 9560 9620
1600-1700	6020 9560
1700-2000	5905 6020 9560
2000-2100	5905 9560
2100-2400	5905 6020 9560

(11-Sep/Egorov-UKR/RUS-DX/Klepov-RUS)

UNITED KINGDOM Tamil Media Ltd (IBC Tamil)

0000-0100	Tamil/English	9355
1500-1525	Tamil	17590-M

(BBCM)

Tamil-Oli Radio (TRT/Tamil Radio and Television) via Radio Netherlands transmitter in Madagascar (-m).

1128-1228	Tamil	17495
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(BBCM)

The **Stafford Broadcasting Society** will be hiring time on Merlin Network One every Friday night from 1st October 1900-2000 on 6010 via Ascension. The on-air name will be Imagination and the station will feature an hour of soft rock from bands such as Barclay James Harvest and Pink Floyd. They have a website at <http://www.imagination.clara.net/index.html> The address of the station is P.O.Box 346, Stafford ST17 4AF, United Kingdom. The broadcasts will air for an initial period of six months. (Geraghty-UK/World DX Club/Barraclough/World Of Radio/Hausser-OK)

UNITED STATES OF AMERICA WINB—World International Broadcasters Inc.

0000-0400	English	11950
1500-2100	English	13800
2100-0000	English	13790

(BBCM)

Some freqs changes of **Voice Of America:**

0100-0300	English	13650 (x7200)
0330-0400	Romanian	6010 (x6040)
1100-1130	English	17690 (x17680) Mo-Fr
1400-1415	Albanian	(ex- til 1500*) 17610 21515 (del 11680)
2200-2330	Lao/ Vietnamese	13735 (x7130).

(15-Sep/Observer—BUL/BC-DX/Bueschel-GER)

[Re Hurricane Floyd and North Carolina] The Greenville [VOA] sites are OK. They maintained their commercial power throughout except for one brief interruption. They also have water from their own wells. The Greenville Site A is somewhat isolated because of roads blocked by the high water. Three Greenville employees' homes were affected by the floods, and a fourth employee living in the flood area has not been heard from. Some employees not able to get home have been staying at the sites, which have showers, food, and basic amenities. Interesting that Bound Brook NJ, a former VOA transmitter site, was also hard hit by the floods. (22-Sep/Elliott, VOA/World Of Radio/Hausser-OK)

Radio Free Asia changes:

0000-0100	Lao	13830 (ex- listed 13820)
0100-0130	Uighur	9350 (ex-15405)
0100-0200	Tibetan	add 11975 15225
0300-0700	Mandarin	17800 (x17615)
1100-1300	Lao/Khmer	15660 (ex- listed 15560)
1200-1400	Tibetan	(ex- til 1300) 7470 11590 15695 17855
1400-1500	Cantonese	11510 (x9455)
1400-1500	Vietnamese	deleted 11510
1800-2000	Mandarin	9355 (via KHBI Saipan)
2100-2200	Mandarin	13675 (x9420)
2200-2300	Cantonese	13675 (x11500)

(15-Sep/Observer—BUL/BC-DX/Bueschel-GER)

Radio Taipei International in French via WYFR now 0700-0800 on 9985 (ex7520). (15-Sep/Observer—BUL/BC-DX/Bueschel-GER)

URUGUAY SODRE (Servicio Oficial de Difusion, Radiotelevision y Espectaculos), the Official Broadcasting Television and Entertainment Service, has opened a website: <<http://www.sodre.gub.uy/>>. Contents are in Spanish, but there appears the entire program sked of their radio stations and other info pertaining the institution. There is an E-mail address also: <info@sodre.gub.uy>. Thanks to "Radioactividades" for the tip. (13-Sep/Nigro-URU)

VATICAN CITY STATE Frequency changes of **Vatican Radio** from Sep 5

1230-1300	Russian	17515 (x17550)
1230-1315	Chinese	21620 (x15500)
1315-1345	Japanese	17515 (x15500)
1345-1405	English	17515 21620 (x15500, 17550)
1405-1450	Vietnamese	17515 (x15500)
1450-1620	Hi/Tam/ Malayalam/ English	17540 (x15500)

(15-Sep/Observer—BUL/BC-DX/Bueschel-GER)

HAM RADIO BANDWATCH REPORT

7000.0 **** 08 IRQ **VOPK** Suleymaniya, progr
in Kurdish & Arabic in 3
blocks: 0257-0400, 1600-
1812, 1941-2048 //4060

7000.0 2002 01 **MEVoice Of The People of
Kurdistan** (VOPK)
Suleymaniya. Is the Voice of
"Patriotic Union of Kurdistan"
(PUK). phone in UK: +44-181-
642-4518

7000.0 2203 01 IRQ **VOPK** Suleymaniya,
address: [http://www.aha.ru/
~said/dang.htm](http://www.aha.ru/~said/dang.htm)

7000.0 2005 03 IRQ **VOPK** Suleymaniya, e-
mail: rsashid951@aol.com,
phone in GER: +49-30-344-
8738, P.O.B. 210231, D-10502
Berlin, Germany

Contact to Mr. Said in Berlin, who speaks Ger-
man language fluent. He is probably the PUK—Peo-
ple's Union of Kurdistan representative in Germany.
Also German FCC (RegTP) direction finding systems
ordered the VOPK on 7000 transmission coming from
Iraq. Signal up to S9 +30 dB, //4060 kHz +/- 1 kHz.
ID: "Huna Sa'ut i sha'ab i Kurdistan" (Arabic), "Deni
geli Kurdistan" (Kurdish).

7000.0 2046 27 IRN **IRIB** Tehran, weak
signal //9022

7000.5 2046 28 IRN **IRIB** Tehran, Spanish
program audible after VOPK
s-off,

7100.0 1748 08 ERI **VoBroad Masses**, heard
1620-1750

14110.0 2005 03 EGY **R. Cairo**, French
program, ji at 2030

14110.0 2208 04 EGY **R. Cairo**, English
program, ji at 2030

14110.0 2007 31 - Unid BC, French program,
oriental mx

14219.8 0725 11 ALB **R. Tirana**

14219.8 0747 15 - Unid BC, ann. 0800,
2x7110

14220.0 0747 07 ALB **R. Tirana**, 2x7110

14250.0 1957 03 EGY **R Cairo**, Arabic program
Quran recitals

14250.0 2208 03 EGY **R Cairo**, Arabic program

14275.0 1951 01 - Unid BC, Russian program

18150.0 1156 02 ROU **RRR** Bucharest, ji, s-off

18150.0 1145 08 ROU **RRR** Bucharest, English,
French program //17815

18150.0 1120 14 ROU **RRR** Bucharest, French
program //17815

18150.0 1130 31 ROU **RRR** Bucharest, French
program, distorted

21350.0 1350 05 USA **VOA**, spur of 21515

21350.0 1223 11 POR **RDP** Lisbon, compl.
distorted modulation, no
carrier, //21515

21370.0 0800 08 ROU **RRR** Bucharest, //21480

21440.0 1223 11 - Unid BC, Spanish program

28260.0 1201 11 GRC **ERT** Greece, Greek
program

28260.0 0750 13 GRC **ERT** Greece, Greek
program

28440.0 0750 13 ALB **R Tirana** (t), mx

(12-Sep/Bihlmayer-GER, DJ9KR/German Ham Radio
Club/BC-DX/Bueschel-GER) After complaints to the
VOPK representative in Germany, that station re-
placed 7000 with 6985 (//4060) as of 20-Sep. Trans-
mission times are 0257-0400, 1120-1215, 1437-
1813 and 1930-2048. (21-Sep/Bihlmayer-GER
DJ9KR/German Ham Radio Bandwatch/BC-DX/Bue-
schel-GER)

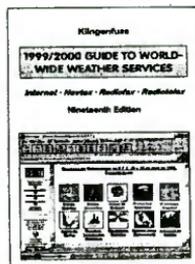
PICKY, PICKY, PICKY This from Hauser's Review
of International Broadcasting:

RN's English service is too clever for its own
good in some of its slogans: "Water covers 2/3 of
the world; **Radio Netherlands** covers the rest." Are
we supposed to believe that RN coverage is
restricted to land areas? You can't get it at sea? I
daresay there is no part of the globe not "covered"
to some extent by this SW station with multiple
relay sites, as is the case with all other major broad-
casters. But if they insist, we must assume you've
got to be landbound to hear RN...[Or *housebound to
worry about this!*-AQ]

1999/2000 GUIDE TO WORLDWIDE WEATHER SERVICES

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The fantastic Internet is today's primary source for global-weather infor-
mation - while many radiofax and radiotelex services continue to transmit
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Pirate Radio Report

Chris Lobdell

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Stoneham, MA 02180-0146

Internet: clobdell@mediaone.net

Hi and welcome to the October 1999 edition of the **PIRATE RADIO REPORT!** Those fall days are upon us now. Shorter days and longer nights mean pirate radio listening should start to improve!

Things are kinda slow around here this month, so I'm going to print an article that's been sitting in my folder for a while. It is an article written by former pirate Dick Pistek regarding the history of the **NAPRS** [*North American Pirate Relay Service*].

For those of you who are new to the hobby, The **NAPRS** was one of the most active shortwave pirates between 1993-1997.

NAPRS made it's first broadcast in September of 1992, with a relay of *Radio Azteca*. I'd bought an old Heathkit Apache transmitter that summer and didn't know what to do with it, so Bram Stoker sent me a copy of *Radio Azteca* #1 and I said, why not start a relay station? Pirate Rambo of *CSIC* had been doing it for a while with success. The name Richard T. "Dick" Pistek came from a Chicago area DXer who committed suicide in 1980.

Anyway, the first relay of *Radio Azteca* was a success and we ended up relaying *Radio Azteca* throughout the five years that we were broadcasting. After testing throughout the rest of 1992, broadcasting began in earnest in 1993. **NAPRS** acquired a couple of older SSB transmitters to supplement the aging Apache. They were a bit drifty though.

Some of the early stations that were replayed included *Happy Hanukkah*, *Radio Stella International*, *Anarchy 1*, *Down East Radio*, *Radio Esoterica*, *Midnite Radio*, *Radio Fluffernut*, *WLIS* and many more. [End of

part #1] We will continue with the **NAPRS** story next month.

Loggings...

I'd like to thank Ross Comeau-MA, Bill Finn-PA and Bill Wilkins-CO for the following logs.

RADIO METALLICA WORLDWIDE was heard on September 15th at 2326 UTC on 6957 kHz in the AM mode. Music included "Livin Lovin.. She's Just A Woman" by Led Zeppelin. The host was neither Sr. El Nino or Doctor Tornado. [Finn-PA]

The **VOICE OF THE RUNAWAY MAHARISHI** was logged on August 21st at 0134 UTC playing parody songs during the "Maharishi'S Neighborhood" Program. Reception was fair with a heterodyne. [Wilkins-MO]

WHYP the James P. Brownyard memorial pirate was noted on September 19th at 0111 UTC on 6955 kHz USB. Music such as "Tiny Bubbles" was played. This show was hosted by Ravi Brownyard, the cousin of James Brownyard. [Comeau-MA]

HALLOWEEN is coming up at the end of this month. This will mark the one year anniversary of the FCC's great pirate massacre. It will be interesting to see how much pirate activity will take place this year. Halloween is traditionally one of the largest pirate holidays.

If you hear any pirates this Halloween, why not send them into the **PIRATE RADIO REPORT?** We need your contributions!

Until next month. Happy Pirate DX! 

QSL Report

Sam Barto
47 Prospect Place
Bristol, CT 06010



9450 via Petropavlovsk-Kamchatsky rcvd. 2 prepared cds., signed, & an acknowledgement ltr. in 18 ds. v/s Richard E. Adams. This was

ALASKA: KNLS 9615 via Anchor Point cd. w/ ltr., schedule and a station pennant in 36 ds. for 2 IRCs. (Eramo-ARG).

ANTARCTICA (Argentina): LRA36 Radio Nacional Arcangel San Gabriel 15476 f/d cd. w/ ltr. in 106 ds. v/s Fernando R. Garcia Pinasco. (Nishikawa-JPN)...Welcome to a new contributor....Sam.

ARGENTINA (Pirates): Radio Sin Fronteras
* 6949.4 LSB via Radio Cochiquaz f/d cd. w/ station info. ltr. in 49 ds. for \$1.00. My rpt. was in EG. (Kusalik-ALB). f/d ltr. w/ cd. for 2 IRCs in 132 ds. Addr: Casilla 159, Santiago 14, Chile.
* (Eramo-ARG). Dark Pampa Radio 6949.4 via Radio Cochiquaz f/d cd. w/ station info. ltr. in 154 ds. for an EG rpt. & \$1.00. v/s Damian Funas Torres. (Kusalik)

ARMENIA: Voice of Armenia 9965 f/d "Christianity State Religion" cd. in 136 ds. (Borokowski-NY).

ASIATIC RUSSIA: China Radio International 9880 via Krasnodar f/d "Dacheng Hall of Confucius Mausoleum" cd. in 27 ds. (Humenyk-ONT)

VERIFICATION SIGNERS: Radiodiffusion Argentina Al Exterior 15345 v/s Perla Damuri and Liliana Leiva. Addr: Casilla 555, 1000 Buenos Aires, Argentina. v/s for the Italian Service is Sandro Cenci. Radio Baku 4940 v/s Kamil Mamedov. Addr: M. Husyin Street 1, Baku, Azerbaijan.
Radio Santa Cruz 6135 v/s Yolanda Marco, Directora. Addr: Casilla 672, Santa Cruz, Bolivia. Radio Nacional da Amazonia 11783.3 Addr: C.P. 258, Brasilia 70359-970 DF, Brasil. Radio Difusao Do Amazonas 4805 v/s Joaquim Marinho (he collects stamps) Addr: P.O. Box 311, Manaus 69011, Brasil.

RADIO QUITO

THE KHZ QINDA MEDIA
4528 RALC QINDA COMEX

for \$1.00....
* This is China Radio not CRI. (Kusalik-ONT).

Radio Nederlands via Irkutsk 13710 f/d "Oatfield in the "Naardereng" cd. in 57 ds. (Humenyk-ONT).

AUSTRALIA: Radio Australia 11650 via Shepparton f/d "Sunrise behind the Pacific Aerial" cd. w/ schedule in 37 ds. v/s John Wright. (Humenyk-ONT).

AUSTRIA: Radio Austria International 9655 via Moosbrunn f/d "Johan Strauss" ltr. in 15 ds. (Borokowski-NY).

Have a great DX Season.....Sam.

EMISORA VOZ DEL UPAPO

96.5 - 106.1FM - 1.640AM - 8.344 OC.

MACAS - ECUADOR



ONDA CORTA BANDA 49 m
6.000 KHz - TEMUCO

TEMUCO CHILE 20 DE ENERO 1999

Señor:
JEFF MOLLANDER
6808 Storia Way
Elk Grove, CA 95758
USA

Estimado Señor Jeff Molander:

Reciba un cordial saludo de parte de sus amigos de Radio Esperanza Banda Internacional de 49 metros.

Nos alegró mucho recibir su carta desde California y saber que nos pudo sintonizar, el mes de agosto del año pasado

Adjunto a la presente nuestra tarjeta QSL y nuestro perfil programático,

Sin otro particular, y esperando tener nuevamente un contacto con usted me despido deseando para usted y familia éxito en lo que resta de este año.

Dios les bendiga

Atte.,

Rodrigo Campos
DIRECTOR



P.O. Box 94, NL-7038 ZH Zeddum, Holland. **Radio Breakdown** 3940 P.O. Box 1951, DE-79554 Weil am Rhein, Germany. **International Music Radio** 3937 same as **Radio Breakdown**. **Radio Bandonica** 6275 Addr: Box 663, NL-7900 AT Hoogeveen, Holland. **Flux Radio** 3925 Addr: Box 33, NL-4158 ZG Deil, Holland. **Radio Korak International** 3920 & 3927. Addr: P.O. Box 134, NL-3780 BC Voorthuizen, Holland....via PLAY DX....Sam.



РАДИО МОСКВА

Dear Mr. Molander,

This verifies your report on the reception of Radio Moscow's broadcast in English

Date June 19, 1998
Time 0258-0321 UTC
Frequency 9665 kHz via Kishinyov

Best wishes from Radio Moscow

MOSCOW. The Moskva river near the Kremlin.

5990 via **Habana** f/d "Dacheng Hall of Confucius Mausoleum" cd. in 27 ds. w/ rpt. forms. (Humenyk-ONT).

CYPRUS: BBC World Service 21470 via **Merlin Communications** and the **Zyyi** site f/d ltr. in 58 ds. v/s Michelle Franks, Communications Assistant. (Humenyk-ONT).

RADIO ETHIOPIA
Dearest Mr. Molander,
This QSL card confirms that you were listening to Radio Ethiopia on:
DATE 20/7/98 from 16.15 to 17.02 GMT
Mb _____ KHz 9560

Thank you for your interest

AUDIENCE RELATIONS &
PROGRAMME EXCHANGE SERVICE

BRASIL: Radio Alvorada de Parintins

* 4965 f/d cd. in 3 wks. for a PT rpt., \$1.00 and ms. v/s Marlene Mendes Braga. (Myers-VA).

BULGARIA: Radio Bulgaria 11720 via **Plovdiv** f/d cd. of "Radio Bulgaria Economy and Science" in 90 ds. w/ station sticker. (Humenyk-ONT).

CHILE: Radio Voz Cristiana 21550 "Flowers and Cross" cd. in 20 ds. for an E-mail rpt. to vozing@interaccess.cl. My QSL was post-marked from Hialeah, FL. (Ponder-TX).

COLOMBIA: HJGC Caracol Colombia

5075 p/d "Colombia on Globe" cd. in 112 ds. for \$1.00. I also sent a cassette tape of their broadcast. I rcvd. a lapel pin & station info. v/s Efraim Jimenez. (Borokowski-NY). 5077 p/d cd. w/

VERIFICATION SIGNERS: Partial India

Radio 6955 Addr: P.O. Box 146, Stoneham, MA 02180. **Radio Torenvalk** 3906, 6270 and 9239 Addr:

ltr. and lapel pin in 5 wks. for a SP rpt. and ms. This was after approximately 15 reports over a 5 year span! (Myers-VA).

COSTA RICA: AERTS/AFN 6485.5 f/d ltr. from Washington in 40 ds. v/s Wayne E. Eternicka. (Kusalik-ALB).....Ed, did I miss something or is this from Costa Rica or Puerto Rico?..Sam. This is the second rpt. I've rcvd. noting Costa Rica..Sam.

CUBA: China Radio International

11470 USB via **Shortwave Relay Service** f/d cd. in 2 1/2 mo. after a f/up rpt. direct to the station I also sent along \$1.00. (Kusalik)

EUROPEAN PIRATES: Radio Mariquita * 1470 USB via **Shortwave Relay Service** f/d cd. in 2 1/2 mo. after a f/up rpt. direct to the station I also sent along \$1.00. (Kusalik)

EUROPEAN RUSSIA: Radio Rosii 9845 via **Saint Petersburg** personal ltr w/ Broadcasting Hall photo in 2 mo. (Glottzbach-NM). **Voice of Russia** 9890 via **Saint Petersburg-Popovka** f/d ltr. in 16 ds. for 2 IRCs. after a f/up rpt. to the

Verification Card

Dear Mr. Molander

We thank you for your reception report and keen interest in our programmes.

We are pleased to verify that you heard Radio Pyongyang from 15:01 to 15:31 on 13650 kHz on June 6, 1998.

Your valuable opinions on our programmes will always be very much appreciated.

Yours sincerely,

The Radio-Television Broadcasting Committee of the DPRK, Pyongyang

Center of Broadcasting and Communications No. 2, ul. Akademika Pavlova 13A, GPR-2 Technical Department, Saint Petersburg, Russia. Attn: Mikhail Timofeyev, QSL Verifier. (Comeau-MA).

GERMANY: Bayerischer Rundfunk 6085 p/d "Logo" cd. in 18 ds. for \$1.00. (Comeau-MA).

GREECE: Voice of America 9535 via Kavala f/d "National Archives" cd. in 37 ds. (Humenyk)

HAWAII: KWHR 17510 via Naalehu f/d "Globe w/ Logo" cd. in 193 ds. w/ report forms and a program schedule. v/s James Holycross. (Humenyk).

HOLLAND (Pirates): Alfa Lima International 11470.4 f/d "Skull and Micro" * phone" cd. in 14 ds. for \$1.00. (Kusalik-ALB).

ITALY: Adventist World Radio 15560 via Julich (Germany) personal ltr. in 32 ds. (Glottzbach-NM).

ITALY (Pirates): Radio Silver 6935.2 via Andino Relay Service cd. w/ station info in 206 ds. for 2 IRCs.

Canadian Broadcasting Corporation via Molander

is pleased to verify your reception on April 08 1998 of its transmissions from Station CBC Radio 1 - Saint John Frequency 9625 kHz Power 50,000 watts This station is on the CBC Radio II Network Per John Date Aug 03 1998

Thank you for listening!
We hope you continue to do so.

101.5 FM

July Gill
Audime Relations
CBC Toronto

VERIFICATION SIGNERS: XERTA

Radio Transcontinental

4800.7 Juan Jose Miroz Lozano. Addr: Apartado 118-133 C.P. 07051 Mexico City, DF, Mexico. Voice of Russia v/s Elena Frolovskaya, English World Service. Radio Comos Television 3250 v/s Gamañiel Francisco Chahua, Jefe Editor de Prensa. Addr:

Avenida Estados Unidos 327, Urbanisacion Huaquillay-Comas, Lima 7, Peru. TIOS Treasure Island Oldies Show 3905 via SWRS v/s Michel Godin. Addr: 401-68 Water Street, Vancouver, BC, V6B 1A4, Canada. Radio West 5794 Addr: Box 16, B-7700 Moeskroen 1, Belgium. Blind Faith Radio 6955 Addr: PO Box 293, Merlin, On. NOP 1W0, Canada. Radio Bob's Communications Network 6955 . Addr: P.O. Box 24, Lula, GA 30554.....via PLAY DX.....Sam.

Addr: Via Davanzati 8, 20158 Milano, Italy. (Eramo-ARG).

INDIA: All India Radio 5040 via Jeypore f/d QSL * sheet w/ ltr. in 63 ds. after a f/up rpt. v/s

D.C. Hembram, Assistant Station Engineer for Superintendent Engineer. **IRELAND (Pirates): Ozone Radio International** 6880LSB (Comeau-MA).

* f/d cd. w/ ltr. for a test broadcast to NA in 33 ds. for an E-mail rpt. v/s Gary Stevans. (Kusalik-ALB).

ISRAEL: Kol Israel 11605 f/d blue and white "Logo" cd. in 43 ds. w/ sked. (Humenyk-ONT). 17535 same in 57 ds. w/ sked. (Humenyk).

LAOS: Lao Nacional Radio 6130 f/d form ltr. in 49 ds. v/s Ms. Malivarn, English Section. This was for a taped rpt. (DeImage-AB). f/d ltr. w/ station stamp in 7 mo. for \$1.00. (Fedor-NV).

LIBYA: Radio Jamahiriya 15415 f/d cd. in 155 ds. via the Malta addr. (Glottzbach-NM).

MEXICO: XERMX Radio Mexico Internacional 9705 f/d cd. in 46 ds. for \$1.00. v/s Martin Rizo. (Borokowski).

MOLDOVA: Voice of Russia 9665 f/d "Kremlin at Night" cd. in 45 ds. (Borokowski-NY).



Ministerios Ebenezer



Radio Singapore International

Date 10/4/99

Dear Jeff A. Molander

Thank you for your reception report on

6150 kHz from 1243 UTC to

1300 UTC on 6150 11/7/98 which

agrees/does not agree with our schedule.

We hope you will continue to enjoy our programmes.

To

Mr Jeff A. Molander

To *Mr Mark Alexander Humenyk*

We wish to thank you for your reception report. We have found it correct and hereby acknowledge it with this verification card.

Date	Time UTC	Frequency kHz
<i>May 1, 1999</i>	<i>2045</i>	<i>17995</i>
	<i>~2100</i>	

This is specially designed for the 35th anniversary of the Japanese Language Service. We appreciate your interest in our programs and invite you to write us again.

尾崎 一夫
Kazuo Ozaki
Director

GREAT IS THY FAITHFULNESS
LAMENTATION 32:3



Original design by Toshiro Tanabe
& Art work by Carlos Valdes

MOROCCO (French): Radiodiffusion Television Marocaine 11920 p/d cd. in 65 ds. for \$1.00. (Neal-TX).

NEW ZEALAND: Radio New Zealand International 11905 f/d "Special 50th Anniversary" QSL cd./ Certificate in 1 mo. for an E-mail rpt. Also rcvd. station sticker. This was for 3 IRCs. and after a f/up rpt. v/s James Shelley, Director. (Kusalik).

NORWAY: Radio Denmark 11960 f/d "National Anthem" cd. in 12 ds. w/ sked and sticker for \$1.00. (Borokowski)

OMAN (Masirah Island): BBC World Service 15310 f/d 1tr. in 25 ds. v/s David Plater, Senior Engineer. (Borokowski-NY).

PERU: Radio Union 6115 f/d large "Logo" cd. w/ 2 decals and a station pennant in 88 ds. for a SP rpt. v/s Carlos A. Gonzalez Solimano, Director Gerente. (Delmage-AB).

PHILIPPINES: Voice of America 13770 via **Poro** f/d cd. of "Monument Valley" in 3 wks. (Kusalik-ALB).



RADIO NEW ZEALAND INTERNATIONAL
TE REO IRIRANGI O AOTEAROA
O TE MOANA-NUI-A-KIWA

via Weisshort

VERIFICATION SIGNERS: Radio Sweden International - Teraco
Test 13635, 13625, 13580 and 9475 v/s Hakan Widenstedt, Chief Engineer. **Level 49** 3910, 6245 and 11470 Addr: Box 5, NL-8100 AA Raalte, Holland. **Team Klizenaars** 6240 and 6260 same as above addr. **Q-103** 10330 v/s W. Vetterli. Addr: SRS, Ostra Porten 29, SE-44250 Ytterby, Sweden. **Alpha Lima International** 6270 Addr: Box 663, NL-7900 AR Hoogeveen, Holland. **The Scream of the Butterfly** 6955 Addr: P.O. Box 28413, Providence, RI 02908. **Emisora Ciudad de Montevideo** 9650 v/s Aramadz Yizmeyian, Director. Addr: Canelones 2061, Montevideo, Uruguay. **Power Jam** 7306 via **Radio Europe** v/s Alex Bertini. Addr: Box 1, IT-20091 Limite, Italy. **Radio Educacion** 6185 v/s Deyanira Moran. Addr: Apartado 21-940, MEX-04021, Mexico City, Mexico.....via PLAY DX....Sam.

15305 same cd. in 37 ds. w/ station stickers and a program guide. (Humenyk). 17740 via **Tinang** sme cd. in 3 wks. for an

E-mail rpt. (Kusalik)
PUERTO RICO: AFRTS/AFN 6458.5 ltr. w/ site noted in 3 wks. (Fedor-NV).

ROMANIA: Radio Romania International 11725 and 17735 f/d "Forest Locked Hut and 60th Anniversary" cds. in 70 ds. (Humenyk). 15180 f/d "The Draw Well" cd. in 68 ds. (Humenyk-ONT).

SAIPAN: KFBS 11650 cd. in 36 ds. of the station in w/ photo Irene Gabbie. (Glotzbach-NM).

SWAZILAND: Trans World Radio 15330 via **Manzini** f/d "Building w/ Towers" cd. in 37 ds. w/ schedule. v/s Mrs. L. Stavropoulos. (Humenyk-ONT).

SWEDEN: Radio Sweden 9430, 12060, 13770 and 17505 f/d cd. in 17 ds. (Humenyk-ONT).

John L. Sprulletta
337 Bullet Hole Road
Mahopac, New York 10541
UNITED STATES OF AMERICA

SUBJECT: RECEPTION REPORT - RADIO WEST NEW BRITAIN:

We write to acknowledge receipt of your Reception Report dated 27th December, 1992 and to also confirm that the Station you heard was Radio West New Britain.

Radio West New Britain is located at Kimbe on the island of New Britain in Papua New Guinea and Broadcasting on the frequency of 3235KHz on the 90 metre Short Wave Band with the power of 10 Kilowatts Transmitter.

Thank you for listening to our Radio Station and your report encouraged us to do our best in the future for the benefit of our listeners both within our Country and World wide.

We apologize for not actioning your Reception Report as early as expected but do believe that you are now happy to have received from us.

Thank you and happy listening.

Yours Sincerely,

ES
Esekiel Mael
PROVINCIAL PROGRAM MANAGER - RWNB.

Radio Sweden/TERACOM 13580 f/d cd. of the "Horby Control Room" in 22 ds. v/s Mr. Hakan Widenstedt. This was for 2 IRCs. (Kusalik-ALB).

TINIAN: Voice of America 13650 and

* 11995 f/d cd. w/ site in 14 ds. for an E-mail rpt. (Kusalik).

TURKENISTAN: Turkmen Radio 5015 p/d ltr.

in 2 mo. for an EG rpt. and \$1.00. v/s K. Karaev. (Fedor-NV).

USA: KVOH 9975 and 17775 f/d "Map w/ Target Areas" cd. and a personal ltr. w/ schedule in 33 ds. (Humenyk). **WWBS** 11900 f/d "World Map" info. sheet in 194 ds. Also rcvd. ltr.

w/ f/d prepared cd which was signed. v/s Jo Anne Josey, Owner. (Wilkins-MO). f/d Certificate w/ a personal ltr. in 252 ds. for \$1.00. (Comeau-MA). f/d prepared cd. and a blue 8 1/2 x 11 Certificate in 189 ds. for \$1.00 and SASE(used) (Davis-NM)....Thanks for the telephone call. It was erroneously reported



VERIFICATION SIGNERS: Radio Voix Sans Frontiers 11470 and 3905 Addr: AMARC, 15 Pater Noster Row, Sheffield S1 2BX, England. **Radio Europe 41** 7480 Addr: FRI, P.O. Box 520112, DE-44207 Dortmund, Germany. **Con Frecuencia** 11470 via **SWRS** v/s Ruben G. Margenat, DX Editor. Addr: P.O. Box 950, 2000 Rosario, Argentina. **Interference Radio** 11470 v/s Andrea Borgnino, DX Editor. Addr: PLAY DX, c/o Dario Monferini, Via Davanzati 8, 20158 Milano, Italy. **Radio Strike** 7590 via **SWRS** v/s

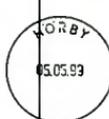
Roberto Scaglione, DX Editor. **Highland Classic Rock** 11470 via **SWRS** v/s Martin, DX Editor. Addr: 9 New Street, Mansfield, Victoria 3722, Australia. **Subgenius Hour of Lack** 11470 via **SWRS** Addr: Box 140306 Dallas, TX 75214.via PLAY DX...Sam.

Cover: Continuum of Hecity abbreviation.

Dear Sir/Madame,

Terms hereby have the pleasure to verify your reception report.

Date: 01.15.99
Frequency: 8435
Time: 01.15-01.37



You gave the wrong time in UTC. But it's OK, I'm in a good mood today! Hope things don't get tough at Bullitt Hole Road. Keep your head down!

Best Regards, *Hakan Widenstedt*
Mr. Hakan Widenstedt

John L. Sgrulletta
337 Bullet Hole Road
Mahopac
New York 10541-2605
USA

VANUATU: Radio Vanuatu 4960 f/d "Slit Gong" cd. in 6 mo. for \$1.00.
VATICAN: Radio Vatican 9605 f/d "Guglielmo Marconi" (Fedor-NV).
cd. in 155 ds. (Glottzbach-NM).

VIETNAM: Voice of Vietnam 13740 f/d cd. in 66 ds. for \$1.00. I sent my rpt. w/ machine franking to improve chances of it getting through. (Raymond-NH). **Radio Cao Bang** 6539 n/d ltr. in 17 mo. direct

from the site. (Nishikawa-JPN).

YEMEN: Radio Sana'a 9780 f/d cd. w/ folder cd. and ltr. in 3 mo. for a 95 reception and \$1.00. v/s Ali Altashi Technical Director. (Myers-VA). f/d cd. w/ personal ltr. and a postcard in 91 ds. (DeImage-AB).

CFRX-CFRB QSL

Thank you for sending us your reception report which we are pleased to confirm.

via Holander

CFRX SHORTWAVE
8.070 MHz 49 metre band
Carrying CFRB's programs 24 hrs/day
1,000 watts - omni-directional antenna

CFRB AM 1010
1010 kHz mediumwave
50,000 watts - directional antenna

DATE: May 7/98

TIME: 06:18 - 06:34 UTC

Signed: *Steve Carney*
Ontario DX Association

Official QSL Manager:
Ontario DX Association
P.O. Box 161, Station A
Willowdale, Ontario, Canada M2N 5S8
(905) 853-3198 Voice/Fax 416 293-6999
Internet: 73737.3453@compuserve.com
Listening Post: 8855-(905) 841-8490
The DX-Change News Service: (416) 444-3526
VA3RDJ Repeater: 442.375+(103.5 Hz T)
Send \$3.00 or 4 IRC's to receive a sample of our monthly magazine.

Station Address:
CFRB Radio
2 St. Clair Ave. West
Toronto, Ontario, Canada M4V 1L8
Main Switchboard (416) 924-5711
CFRB Access Line (416) 872-CFRB
CFRB Newscentre (416) 924-8717
CFRB Talk Shows (416) 872-1010
Toll Free 1-800-561-CFRB
Fax (416) 323-6830

Thanks Jeff
73

7300 Sam

Net Notes

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

On a follow-up to last month's review of the NASA HF-4 by Alan Johnson, the HF-5E was shown at a German event last June. We're awaiting details, but a photo and some information may be found on the Radio Netherlands' Media Network pages: <http://www.rnw.nl/realradio/features/html/hamradio99.html>. Look about half-way down the page.

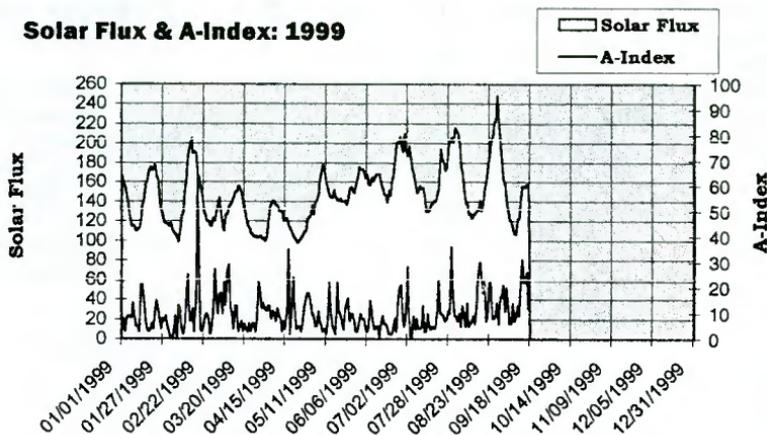
Takashi Kuroda, Japan, tells us of the new NRD-371 DSP receiver shown at the JAIA show in late August. He writes "The new NRD-371 is a prototype and is fully DSP based implementing 32 bit DSP chips. It controls directly from 455 khz 2nd IF unlike the EK895 or NRD-545. I do not know much about the DSP technology but a friend of mine says it is ideal which has not been available with other receivers.

"The NRD-371 is expected be launched next summer in Japan mainly targeting maritime and other professional users. JRC is re-

portedly supplying a similar DSP monitoring receiver to the Japanese Defense Forces already and the NRD-371 is developed based on the receiver for defense use. The price range is about Yen 1,200,000.- to Yen 1,500,000.- which will be similar to EK895 or Racal 3791. JRC people say the cosmetics will be modified since they have used the parts which are already available to assemble this prototype." For a picture, look about half-way down this page: <http://www.jrc.co.jp/product/comm/cq/html/jai99.htm>. At press time, there is no equivalent page in English.

Paul Ormandy of Oamaru, New Zealand, prepares and broadcasts the "South Pacific DX Report" on Radio New Zealand International, HCJB, AWR, and NZ's Radio Reading Service - ZLXA. Details are available on his South Pacific DX Resource website at the new URL of <http://www.radiodx.com/spdxr/>.

Solar Flux & A-Index: 1999



27-Day Intervals

Scoreboard

Fred S. Kohlbrenner
 2641 S. Shields St.
 Philadelphia, PA 19142
 Internet: fkoehl@ix.netcom.com

Hello, and welcome to the *NASWA Scoreboard*. This month we highlight our members African totals. The next deadline is November 15th for the December *Journal*. The spotlight then will be on Asia. Please update your totals at least once a year to remain on the *Scoreboard*, and remember to use the NASWA Country List for counting totals. Thanks to all of our regular contributors, and welcome to those joining the *Scoreboard* for the first time.

Name, State	Total		Africa		Best Africa QSL
	C/H	C/V	C/H	C/V	
James Young, CA	251	230			
Dan Henderson, MD	242	234	65	63	ORTF Reunion
Marlin Field, MI	241	240	65	65	Mt. Nyeri, Kenya
William Flynn, OR	241	227	63	57	Azores 4865
Jerry Berg, MA	240	238	64	64	R Clube Tenerife
Gerry Bishop, FL	238	223	63	57	Radio Bunia
John Sgrulletta, NY	236	236	64	64	Comoros Is
Don Hosmer, MI	227	195	61	46	Malawi
Sheryl Paszkiewicz, WI	221	214	58	56	Sierra Leone
Richard Davis, NM	220	212	56	54	Mauritus
Paul Buer, FL	218	205	60	54	LV Isla Palma
Rick Krzemien, CA	217	212			
Christos Rigas, IL	217	197	56	45	St Helena
Fred Kohlbrenner, PA	217	193	56	42	R. Nacional de São Tome
Jerry Klinck, NY	216	196	59	56	EP Benguela
Jerry Lineback, KS	214	109	60	32	St Helena
Stephen Price, PA	193	172	52	40	ORTN Niger
George Maroti, NY	190	148			
Jim Renfrew, NY	187	153	51	31	Enugu, Biafra
Bob Fleck, TX	184	161			
Allan R. Loudell, DE	184	155	49	34	Capitol R. Tran
Ross Comeau, MA	183	153	49	33	R. Tanzania-Zanzibar
Gary Froemming, AZ	181	44	51	8	ZUD, S Africa
Bill Bergadano, NJ	177	117			
Andy Rugg, Quebec	176	157	49	38	TWR Swaziland
Mark Humenyk, Ontario	169	135	44	32	Sentech (BBC)
Bob Raymond, NH	164	136	48	38	Broad Masses of Eritrea
Robert E. Gearing II, FL	155	122	44	23	Tanzania
Darren White, MS	154	110	41	18	Uganda BC
Norm Constanti, MO	142	107	34	25	Ivory Coast
Jill Dybka, TN	129	99	30	18	St Helena '94
Gary R. Neal, TX	123	114	22	20	R. Saint Helena
Ronald J. Hunsicker, PA	107	95			
George L. Glotzbach, NM	93	46	16	6	
Gene Borowski, NY	89	73	10	7	TWR Swaziland
Bret Pollack, MD	82	54			
Ed Krucenski, FL	59	27	5	2	

Contributors' Page

Fred S. Kohlbrenner
2641 S. Shields St.
Philadelphia, PA 19142
Internet: fkoahl@ix.netcom.com

DEADLINE FOR CONTRIBUTIONS IS THE 10th OF THE MONTH

The following members sent in contributions:

Brian ALEXANDER, Mechanicsburg, PA
Ralph BRANDI, Tinton Falls, NJ
Paul BROUILLETTE, Mineola, TX
Ross COMEAU, Andover, MA
Peter COSTELLO, Matawan, NJ
Rich A. D'ANGELO, Wyomissing, PA
Nicolas ERAMO, Buenos Aires, ARGENTINA
Walt FAIR, Maracaibo, VENEZUELA
Marlin FIELD, Hillsdale, MI
Jeff FINDLATER, Los Angeles, CA
Bob FRASER, Cohasset, MA
Andre FREDETTE, Oakville, ONTARIO
George GLOTZBACH, Santa Fe, NM
Mark HUMENYK, Weston ONTARIO
Fred KOHLBRENNER, Philadelphia, PA
Jerry LINEBACK, Scranton, KS
Jack LINOIS, West Middlesex, PA
William McGUIRE, Cheverly, MD
Bob MONTGOMERY, Levittown, PA
Gary NEAL, Sugarland, TX
Don NELSON, Beaverton, OR
Ed NEWBURY, Kimball, NE
Junichi NISHIKAWA, Tokyo, JAPAN
Jay NOVELLO, Wake Forrest, NC
Takayuki Inoue NOZAKI, Tokyo, JAPAN
Denis PASQUALE, New Brighton, PA
Steve PONDER, Houston, TX
Bob RAYMOND, Nashua, NH
Chuck RIPPEL, Cornland, VA
Betsy ROBINSON, Clinton, TN
Giovanni SERRA, Rome, ITALY
Bill SMITH, Mineola, TX
Jennifer WEINBRUM, Denver, CO
Gerald WITHAM, Keaau, HI

R8B AOR AR-7030 100' LW
R8 PR150 Dressler ARA60
Sony 2010 w/ whip
R8 325' LW
AR3030 DX-390 YB400 70' LW Tun-4A
R8 HF150 FL-3 AD Sloper LW
Sony 2010 ICF-7600 7600G LW's

Sony ICF-2003 ICF-SW100S 2m LW
NRD-535D R8B G5RV
Grundig G-2000A 23' LW
Magnavox D-2935 AN-60 DX-SWL sloper
R8 NRD-525 Datong FL-3 Sloper
Icom 746 beverage antennas
DX-375 DX160A NCX-20 65' LW Sloper
DX-380
R388 DX Pro active antenna
Grundig YB-400
HF1000A NRD-545 Collons 2050 R7A 70' LW
WJ-1000 R8 60' Sloper 20' loop

R8A LW's
NRD515 NRD535 FRG7000
Sony 2010 beverage antennas
Panasonic RF-3100 Grove TUN-3
R8B 20m 5/8 wave vertical
WJ-HF1000A R8B R390A/SE-3 51S-1 LW's
Sony 2010 Indoor antenna
NRD-525 AD Sloper
NRD-535D R8B 51J4 R390A Beverages
AOR-7030
R8 ANC-4 135' LW

Thanks again this month to all of our regular and new contributors for sending in material for the Journal. Don't forget to tune into what will probably be the last special broadcast from Radio Saint Helena later this month. It will be on Saturday, October 23rd, between 1900-2400 UTC on 11092.5USB.

Also, since this didn't fit in the *Scoreboard* column, sincere thanks to Jerry Lineback for his outstanding job at editing the *Scoreboard* since March of 1981. Please continue to support Jerry by sending him items for his *Shortwave Center* column.



Tropical Band Loggings

Sheryl Paszkiewicz
314 Riverview Drive, Apt 16
Manitowoc, WI 54220
spasz@dataplusnet.com

- 2310 AUSTRALIA CAAMA R 9/8 1135 pops, EG (Line-KS)
 2325 AUSTRALIA CAAMA R 9/8 1136 EG pops (Line-KS)
 2485 AUSTRALIA CAAMA R 9/8 1137 EG pops (Line-KS)
 3205 NEW GUINEA R *Sandaun* 8/17 1135 tik, anmt, NA (Nels-OR) 9/9 1157 lang talk, orch mx, good (Line-KS)
 3215 SULAWESI RRI *Manado* 9/7 1136 IN talk (Line-KS)
 3220 NEW GUINEA R *Morobe* 8/28 1144 local mx (Line-KS)
 3235 NEW BRITAIN RWNB not hrd since 8/6 (Line-KS)
 3245 NEW GUINEA R *Gulf* 9/8 1150 pop mx, ID, s/off (Nels-OR) 9/9 1156 lang talk (Line-KS)
 3245.1 BRAZIL R *Clube* 8/21 0428 mx, ID (Eram-ARG)
 3260 NEW GUINEA R *Madang* 9/8 1150 pop mx, ID, s/off (Nels-OR) 9/9 1156 lang talk (Line-KS)
 3265 SULAWESI RRI *Gorontalo* 9/8 1159 SCI, ID, nx (Nels-OR)
 3275 PAPUA R S *Highlands* 9/9 1155 lang talk (Line-KS)
 3306 ZIMBABWE ZBC 8/16 0416 talks & drums, EG ad (D'Ang-PA)
 3315 ADM ISL R *Manus* 9/5 1148 pop mx, bird sounds, s/off (Nels-OR) 9/9 1155 lang talk (Line-KS)
 3320 S AFRICA R *Sonder Grense* 9/5 0147 pops, AK anmts (Nels-OR)
 3324.8 GUATEMALA R *Maya* 9/8 1145 TG mx, IDs (Nels-OR)
 3335 NEW GUINEA R E *Sepik* 9/8 1150, pop mx, ID (Nels-OR)
 3355 NEW GUINEA R *Simbu* 9/8 1156 pop mx, ID, NA (Nels-OR)
 3365 NEW GUINEA R *Milne Bay* 8/15 0900 poss ID, C&W mx (Mont-PA)
 3395 NEW GUINEA R E *Highlands* 9/5 1136 local mx, s/off (Nels-OR)
 3395 SUMATRA RRI *Bandar Lampung* 9/5 1337 pops, SCI, ID, nx (Nels-OR)
 3905 UNID 0845 YL talk, mx, ham QRM (Wein-CO) Thanx!
 3976 KALIMANTAN RRI *Pontianak* 9/5 1255 SCI, ID, nx, mx (Nels-OR)
 4549.5 BOLIVIA Rdf *Tropico* 9/4 2335 comunicados, anmt, Andean mx (Nove-NC)
 4599.3 BOLIVIA *Emis Villamontes* 8/19 1018 QU/SP mx, ads, ID (Eram-ARG)
 4606 IRIAN JAYA RRI *Serui* 9/5 1341 IN pops, talk, SCI, ID, nx (Nels)
 4753.3 SULAWESI *Ujung Pandang* 8/15 1007 lang, poss ID, mx (Mont-PA) 9/5 1255 SCI, ID, nx, mx (Nels-OR) 9/9 1159 SCI, nx (Line-KS)
 4760t AND ISL *Pt Blair* 9/7 1142 lang talk, SC mx (Line-KS)
 4775 BRAZIL R *Congonhas* 9/10 0824 mx, ads, TC, ID (Eram-ARG)
 4775 SWAZILAND TWR 8/17 0344 lang talk, primitive vcls, mx box IS, into GM (D'Ang-PA)
 4777.7 BOLIVIA R *Andes* 8/19 1005 QU mx pgm, ID (Eram-ARG)
 4779.8 GUATEMALA R *Coatan* 8/14 1030 ID, talk, mx (Robi-TN)
 4789 IRIAN JAYA RRI *Fak-Fak* 9/5 1338 talk, IN pops, SCI, ID, nx (Nels-OR) 9/9 1159 SCI (Line-KS)
 4800 VENEZUELA R *Buenas Nuevas* 8/27 0332 ID, FC (Pasz-WI)
 4814.3 ECUADOR R *El Buen Pastor* 8/17 0238 weak, preaching, ID (Nels-OR)

- 4820 **BOTSWANA R Botswana** 8/17 0424 lang nx, cmtry, mx (Eram-ARG)
- 4825 **BRAZIL R Educadora** 8/8 0901 nx, Ids, mx pgm (D'Ang-PA)
- 4830 **VENEZUELA R Tachira** 9/6 0341 local mx, ID (Nels-OR)
- 4835 **GUATEMALA R Tezulutlan** 9/6 1029 lang talk, ID, marimba (Raym-NH)
- 4835 **MALI RTM** 8/25 2307 FR Waf mx, Ids, s/off (Raym-NH)
- 4845 **BOLIVIA R Fides** 9/12 0358* mx pgm, call in, TC, ID (Eram-ARG)
- 4945 **GUATEMALA R Kekchi** 8/15 1130 ID, accordion/vcls (Robi-TN) 8/23 0150 SP rel pgm, into lang, ID (Fair-VEN)
- 4845 **MAURITANIA ORTM** 9/5 0629 tone, mx, AR Koran (Nels-OR)
- 4845 **MOLUCCAS RRI Ambon** 8/25 1025 IN vocals (Line-KS)
- 4850 **CAMEROON Yaounde** 8/12 0102* talk, pop mx, ID, NA (D'Ang-PA)
- 4850 **CHINA CNR** 9/9 1210 CH talk (Line-KS)
- 4875 **BOLIVIA R La Cruz del Sur** 9/3 0945 full ID, choir, preaching (D'Ang-PA)
- 4875 **BRAZIL unid** 8/23 0135 ballads, unable to copy ID (Fair-VEN)
- 4875 **IRIAN JAYA RRI Sorong** 9/9 1045 IN talk (Line-KS)
- 4884.7 **COLOMBIA Ondas del Meta** 9/6 0322 full Ids, mx (Nels-OR)
- 4885 **BRAZIL R Clube** 9/3 0614 ID, pop mx (Nels-OR)
- 4890 **PAPUA NBC** 8/8 0904 nx, ment Pt. Moresby, ID, choir (D'Ang-PA) 9/9 1157 EG talk (Line-KS)
- 4895 **SARAWAK R Malaysia** 9/9 1203 lang nx by YL (Line-KS)
- 4915 **BRAZIL R Anhanguera** 8/19 0022 ID, good (Line-KS)
- 4919 **ECUADOR R Quito** 8/14 0930 harp & guitar mx (Robi-TN)
- 4920 **INDIA Chennai** 8/24 1226 SC mx (Line-KS)
- 4925 **SUMATRA RRI Jambi** 9/5 1255 SCI, ID, nx, mx (Nels-OR) 9/9 1159 SCI (Line-KS)
- 4926.3 **BOLIVIA R San Miguel** 9/12 0255 mx pgm, ID (Eram-ARG)
- 4939.5 **VENEZUELA R Amazonas** 8/28 0155 anmts, Ids, mx (Alex-PA)
- 4940 **CHINA Vo Strait** 9/9 1204 CH talk, orch mx (Line-KS)
- 4950 **ANGOLA R Nacional** 9/11 0456 mx pgm, ID, fair (Eram-ARG)
- 4950 **CHINA Vo Puijiang** 9/9 1205 CH talk (Line-KS)
- 4960 **VANUATU R Vanuatu** 9/5 0811 pop mx pgm (Nels-OR) 9/10 0735 lang mx, cmtry, nx, ID (Eram-ARG)
- 4960 **VIETNAM Vo Vietnam** 9/9 1205 mx, & VT talk (Line-KS)
- 4975 **CHINA Fujian PBS** 9/9 1206 CH talk (Line-KS)
- 4975.2 **PERU R del Pacifico** 8/19 0807 romantic mx, talk, ID, TC (D'Ang) 9/3 0535 pop mx, ID (Nels-OR)
- 4976 **UGANDA R Uganda** 8/27 0335 lang talk, ment Nelson Mandela, Mozambique, ID (Pasz-WI)
- 5003.7 **RIO MUNI R Nacional** 9/11 0533 SP mx, cmtry, ID, TC (Eram-ARG)
- 5010t **INDIA** 8/23 0050 chants, talk in lang (Fair-VEN)
- 5010 **MADAGASCAR RM** 8/17 0344 lang mx pgm, ID (Eram-ARG)
- 5019.2 **COLOMBIA Ecos del Atrato** 9/6 0412 mx, IDs (Nels-OR) 8/23 0000 talk, nx, ads, sports, ID (Fair-VEN)
- 5020 **SOL ISL SIBC** 9/8 1140 EG talk (Line-KS)
- 5035 **BRAZIL** station? 8/18 0010 rel pgm, mx, ID (Fair-VEN)
- 5035t **VIETNAM Vo Vietnam** 9/9 1208 lang talk (Line-KS)
- 5040 **CHINA Fujian PBS** 9/9 1208 CH talk (Line-KS)
- 5047 **TOGO Lome** 9/5 0535 pop mx, FR anmts (Nels-OR) 9/11 0549 FR cmtry, nx, ID (Eram-ARG)
- 5050 **CHINA Guangxi PBS** 9/9 1209 CH talk (Line-KS)

5054.6 COSTA RICA *Faro del Caribe* 8/19 0948 SP rel pgm, ID (Eram-ARG)
5370L ARGENTINA *feeder of FM Hit* 9/12 0157 mx, ID, good (Eram-ARG)
5370U ARGENTINA *feeder of R Continental* 9/12 0200 mx pgm, ID (Eram)
5385.9v PERU *R Huarmaca* 8/17 0400* vocals, talk, ID, s/off annmts (D'Ang-PA)
5680 PERU *R Ilucan* 9/3 0918 talk, OA vcls, ID, TC (D'Ang-PA)

Thank you everyone. Some nice loggings this time and it should only get nicer now that fall has fell. A special welcome to the newcomers, especially Jennifer Weinbrum and Walt Fair. I appreciate getting input from members west of the Mississippi since there seems to be fewer DXers out there. This month contributions from 7 states & 2 foreign countries. Next deadline October 22. If you send loggings that arrive later, don't worry; I'll use them next time. 

FOR SALE: Customized Beam Headings (from/to) and Distances (MI/KM) to more than 480 WRTH transmitter sites including Russian republics. ITU Country Codes included. Send your location or coordinates, \$8.00. 1997 "Passport to World Band Radio", \$8.00. WRTH; '97, \$12.00; '98, \$16.00. All prices include shipping (overseas shipping extra). Cashiers check or money order only, please. Al Drehman, Route 2, Box 3-B, Tryon, NC 28782. E-mail <ADrehman@juno.com>. Phone (828)894-3398, not collect.

FOR SALE: Kenwood R-5000 receiver with Autek external audio filter (QF-1A). In excellent condition both cosmetically and electronically. Optional YK88C and YK88SHN filters installed. First class DX machine from 100 kHz to 30 MHz. Performs like a dream on AM/CW/SSB/FM/FAX and RTTY. Price \$650.00 plus shipping or best offer. Terry Kelly, 1136 Winding Ridge Road, Santa Rosa, CA 95404. E-mail to <WDX6TJK@aol.com>.

Please note that the NASWA Headquarters e-mail address has changed from <boliver@blackboard.com> to <boliver@bboard.com>. This was caused by some sort of conflict with "Blackboard.net". Sorry for the inconvenience.

International Band Loggings

Wallace C. Treibel
357 N.E. 149th Street
Seattle, WA 98155
nrwhikers@gte.net

- 5955 GUATEMALA *R Cultural* in SP 0903, mix of tlks & short mx segments, f, //3300 (D' Angelo PA 9/3)
- 5965 CANADA *BBC* relay Sackville in EG 1010, live pgm on eclipse from Cornwall, vg (Fraser MA 8/11)
- 5975 ANTIGUA *BBC* relay in EG 2335, vintage chart show, nx rpts, ID (Humenyk ONT, McGuire MD)
- 5985 CONGO *RTV Congolaise* in FR 0435, musical pgm, TC's, ID, f (Eramo ARGENTINA 9/11)
- 5990nf CUBA *China R Int* relay in EG 2300, IS, ID, world nx (McGuire MD 9/2, Humenyk ONTARIO)
- 6005 GERMANY *Deutschland R* Berlin in GM 0146, swing mx, some tlk, ID, f (Raymond NH 8/28)
- 6010 MEXICO *R Mil* in SP 0802, pop mx pgm, ID, frequent ads for Grand Prix race (Nelson OR 9/5)
- 60249 BOLIVIA *R Illimani* La Paz in SP 0951, tlk on Aymara and folklore boliviano (Nozaki JAPAN 9/14)
- 60297 CHILE *R Santa Maria* in SP 0315-0405*, classical mx, relay of MW nx, ID, p (Eramo ARGEN 8/23)
- 6035nf? SOUTH AFRICA *Channel Africa* in FR 0340, interview, mentions of Africa, ID, f (Witham HI 8/15)
- 6055 JAPAN *R Tampa* in JP 0856, TP toh, tlks, weird mx, plenty of "hai" (Brandi NJ, Newbury NE 8/27)
- 60852 BOLIVIA *R San Gabriel* La Paz in Aymara/ SP *0900, NA, mx, cmntry, ID, g (Eramo ARGEN 9/10)
- 6090 CHILE *R Esperanza* Temuco in SP 0413, gospel mx & religious pgm, ID, f (Eramo ARGEN 9/12)
- 6100 NORTH KOREA *Korean CBS* in KR 1705, mournful nationalistic mx, YL tlks, f (Witham HI 8/13)
- 6105 BOLIVIA *R Panamericana* La Paz in SP 0943, ID, TC, frqy ancmt, Latin vocal, f (D' Angelo PA 9/3)
- 6130 CANADA *CHNS* Halifax in EG 1137, nx, wx rpt, ID, pop mx, YL anc (Fredette ONT 8/13)
- 6155 UNITED KINGDOM *R Japan* relay in EG 0015, national & regional nx, ID, p (McGuire MD 8/20)
- 6160 BRAZIL *Sistema LBV Mundial* in PT 0709, religious mx and sermons, ID, f (Eramo ARGEN 9/10)
- 6175 CANADA *BBC* relay Sackville in EG 2336, oldies rx show, mx from 1958, //9590 (Humenyk ONT)
- 62492 EQUATORIAL GUINEA *R Nacional* in SP 2245, Julio Iglesias mx, NA at s/off (Brandi NJ 9/7)
- 63988 NORTH KOREA *Pyongyang BS* Kanggye in KR 1126, classical KR vcls, tlks, p (Lineback KS 8/28)
- 65199nf? PERU *R Impacto* in SP 1125, Andean type mx, f (Lineback KS 8/28)
- 65204nf? PERU *R Paucartambo* Cusco in Quecha 0918, huayos mx, ID, TC, f (Eramo ARGEN 9/5)
- 65358v PERU *R Huancabamba* in SP 0112*, Andean vcls, ID, LA mx, NA (Kohlbrener PA, Lineback KS)
- 6674v PERU *R Super Nueva Sensacion* Huancabamba in SP 0114-0312*, Andean mx, several "Radio Super" ID's, NA, f (Kohlbrener PA 9/5) in SP *0957, test xmsn w/folklore, NA 1000, anmts (Nozaki JP 9/14)
- 6898nf? ISRAEL *Galei Zahal* in FR 0102, ments of "Internationale", eclectic playlist ranging from Bob Dylan to Bruce Hornsby, and The Doors, f-g but audio quality somewhat muffled (Comeau MA 8/30-31)
- 6975 COSTA RICA *RFPI* in EG 1111, Hauser's "Continental Media" pgm (Lineback KS, Raymond NH) in EG 0035, tlk by environmentalist, mx, ID (Fair VENEZUELA 8/23)
- 7105 GERMANY *Deut Welle* Wertachtel in RS 0300, IS, ID, regional nx, p (McGuire MD 8/26)
- 7110 ETHIOPIA *R Ethiopia* Gedja in Amharic? 0310, native mx, tlk by OM, //97042 (Brandi NJ 9/2)
- 7125 GUINEA *RTV Guineenne* Conarky in FR 0557, guitar IS, ID, NA?, nx, chanting mx (Nelson OR 9/3)
- 7150nf ITALY *RAI* Rome in EG 0425, IS, ID, financial nx, mention of Albania, g (McGuire MD 8/27)
- 7205 SOUTH AFRICA *BBC* relay in PT 0425, BBC tones, ID, Big Ben chimes, nx in PT (Ponder TX 8/22)
- 7210 BELARUS *R Minsk* in EG 0200, IS, ID, fqy sked, national nx, p (McGuire MD 8/12)
- 7255 NIGERIA *V of Nigeria* in EG *0459, bell IS, ID, prayer, mailbag, mx requests, f (D' Angelo PA 8/15)
- 7305 VATICAN STATE *Vatican Radio* in SP 0100, IS, ID, religious pgm, p (McGuire MD 8/27)
- 7325 UNITED KINGDOM *BBC* in EG 0928, special eclipse best, pop mx, ID, //12095 (Brandi NJ 8/11)
- 7465nf USA *WRMI* Miami in EG 0330-0500*, political tlk re Haiti, vg - no jammers yet (Alexander PA 8/22)
- 7520 ROMANIA *R Moldova Int* relay in EG 0300, nx, cmntry, native mx, ID, fqy, sked, rpt on investments in Moldava (Alexander 8/29, McGuire 8/16, Brandi 9/8) ED: Alexander rptd poor distorted audio on 8/29 but Brandi rptd surprisingly intelligible audio on 9/8. Must have cleaned up their act)

- 9400 **BULGARIA R Bulgaria** Sofia in EG 2332, rpt on the Bulgarian theater, ID, g (McGuire MD 8/24)
- 9470 **NORWAY R Denmark** relay in DN 0355*, tlk, IS, ID, R Norway back on 0400//13800 (Witham 8/25)
- 9475 **EGYPT R Cairo** in AR 0315, Egyptian mx in AR, strings, percussion, vcls, chorus, p (Newbury 8/30)
- 9485 **SLOVAKIA R Slovakia Int** in RS 1750, mx, IS, ID, s/off at 1758, g, //11990 (Witham HI 8/14)
- 9495 **SWEDEN R Sweden** in EG 0255, special pgm on U.S. popular songs in Sweden, g (Newbury 8/29)
- 9535 **UNITED KINGDOM R Korea** relay Skelton in KR 0700, nx, no sign of //7550, f (Humenyk ONT)
- 95398 **VENEZUELA R Nacional** Caracas in SP *1109, trumpet-style electronic IS (sounds like steel drums), ID, mx, good carrier but poor modulation (Novello NC 9/5, Brandi NJ 9/5)
- 9540 **UZBEKISTAN R Tashkent** in TK 1720, Mideast type mx, IS, nx, p, //9715 (Witham HI 8/17)
- 9580 **BOSNIA R Yugoslavia** relay in EG 0430, nx, ID, g, //11850 also good (Alexander PA 8/28)
- 9590 **CANADA BBC** relay Sackville in EG 2200, ID, world nx, rpt on E Timor, g (McGuire MD 9/6)
- 9665nf **SOUTH AFRICA TWR** relay in EG 1715, IS, ID, into unident lang, regional nx (Witham HI 8/16)
- 9675 **ITALY RAI** Rome in EG/FR 0105, Sinatra song, ID, fqys, sked, into FR, g (McGuire MD 8/25)
- 9690 **SPAIN China R Int** relay in EG 0315, tlk re relations between China & Cuba (Liniois PA) in EG 0320, cmtry on CH investments abroad (Newbury NE 8/30) in CH 0200, IS, ID, nx, g (McGuire MD 9/6)
- 9700 **NEW ZEALAND RNZI** in EG 0945, tlk on world views of USA via its TV pgms, g (Fraser MA 8/11)
- 9700nf **SOUTH AFRICA TWR** relay in lang? 1840, tribal mx, sermon, ID, hymn, p (Witham HI 8/22)
- 9715 **PORTUGAL R Canada Int** relay Sines in AR 0355, interview, AR mx, QTH, ID, f (McGuire 8/26)
- 9820 **GUAM KTRR** in Mandarin 1250, gospel songs, signal barely above noise level but confirmation came from listener in Australia (via Internet chat) who was listening at same time (Costello NJ 8/28)
- 9820 **CUBA RHC** in EG 0140, "DX'ers Unlimited", IS, ID (Ponder TX) in EG 0315, cmtry on Cuba doubts that USA acts with humanitarian aims (Newbury NE) in EG 0500, rpt on AIDS, ID, fgy (McGuire MD)
- 9840 **HUNGARY R Budapest** in EG 0230, ID's, in several langs, rpt on food in Hungary, political nx, pgm billboard (McGuire MD 9/6, Humenyk ONT)
- 9850 **EGYPT Egyptian R** in AR 0350, continuous chants, fqys, skeds, and ID 0400, f-p (Findlater CA 8/4)
- 9855 **KUWAIT R Kuwait** in AR 2134, interview abt tensions in Ireland (numerous ments of IRA) conducted via telephone, exc signal, //15505, 15495 (Costello NJ 9/6)
- 9860nf **FINLAND R Finland** in FN 0430, tlks, mx, ID, f, //11755, 15440 (Witham HI 8/4)
- 9865nf **ZAMBIA Christian Voice** in EG 0615, rx pop vocals, ID, more rx vocals, f (Witham HI 8/24)
- 9870 **AUSTRIA RAI** Vienna in EG 0150, tlk re Euro financial mkts & new Euro coin, g (Liniois PA)
- 9875nf **RWANDA Deut Welle** relay in EG *2058, IS, ID, ancmts, nx, sports pgm, f-p, //15135 (D'Angelo PA)
- 9875nf **GERMANY Adventist World Radio** relay Julich in BG *1600, sermon, relig mx, ID in EG 1632 as the "Voice of Hope", f-g (Treibel WA 9/5)
- 9885 **THAILAND R T** in EG 1233-1300*, "Thai Culture", "News in Perspective", ID (Ponder TX 8/26)
- 9905 **FRENCH GUIANA Swiss R Int** relay in GM 0030, tlks, ID, nx, exc (Fair VENEZUELA 8/17)
- 9925 **GERMANY Hrvatska Info Center** Croatia relay in EG 0012, nx, cmtry, g (Fair VENEZUELA 8/17)
- 9935 **GREECE ERT Thessaloniki** in GK 2155, nx, NA, sign off, //115948 (Brandi NJ 9/15)
- 9950 **INDIA AIR Delhi** in EG 2220, tlks, interview, ID 2230, g (Fair VENEZUELA 8/18)
- 9955nf **CZECH REPUBLIC R Prague** in EG 0300, IS, ID, political nx, ment Kosovo, p (McGuire MD 9/7)
- 9990 **EGYPT R Cairo** in EG 2300, sports rpt, cmtry, mx, nx (Liniois PA, Fair VENEZUELA 8/18)
- 10000 **CHINA BPM Time Station** mixing equally with WWVH, multiple BPM ID at 1100 (Rippel VA 9/11)
- 11335 **NORTH KOREA R Pyongyang** in EG 1158*, ID, list of fqys at sign off, f (Fredette ONT 9/11)
- 11605 **ISRAEL Kol Israel** in EG 2000, nx re Israeli military actons in Lebanon (Liniois PA, Humenyk ONT)
- 11615nf **CZECH REPUBLIC R Prague** in EG 0002, political nx, ID, rept on Euro Union (McGuire MD 9/3)
- 11635 **PHILIPPINES FEBC** in EG 1038-1103*, pgm on single parenting, ID, QTH, IS, f (D'Angelo PA 8/4)
- 11655nf? **TURKEY VoT Ankara** in EG 0330, ID, cmtry on aftermath of huge earthquake (Newbury NE 8/29)
- 11710 **UNITED ARAB EMIRATES Abu Dhabi** in AR 1826, radio drama, AR mx, ID's (Raymond NH 9/3)
- 11715 **INDIA AIR Panaji** Goa in EG 2138, Hindi vcls, ID 2159, nx, needed LSB to hear (D'Angelo PA 8/6)
- 11730 **MOROCCOR Free Europe** relay in Serbo-Croat 2300, ID, nx, ment Belgrade, p (Findlater CA 8/19)
- 11740 **SINGAPORE BBC** relay in EG/VT 1455, "Medical Fundamentals in Vietnam" (Newbury NE 8/26)
- 11740 **ROMANIA RRI** Bucharest in EG 0200, nx re economics, Nat'l Art Museum etc. (Robinson TN 8/13)
- 11750 **BOTSWANA VOA** relay in FR *0530-0630*, nx re earthquake in Turkey, NATO (Findlater CA 8/19)
- 11760nf? **CUBA R Reloj** in EG 1515, time ticks, nx, and ID every minute, //15230, TC's (Novello NC 9/16)

- 11760nf **CHINA *China R Int*** in CH 1800*, s/off with ID in EG, back on in CH 1802 but weaker (Witham HI)
- 11765 **ASCENSIONIS *BBC*** relay in EG 0500, nx re Yeltsin firing PM's, Turkish earthquake (Findlater 8/20)
- 11800 **ITALY *RAI*** Rome in IT 2320, ezl and pop mx, g, //9675, 15240 (Fraser MA 8/13) in EG 0013, pgm of 20th century classical mx, violin orchestra, exc (Newbury NE 8/27)
- 11810 **ROMANIA *RR1*** Bucharest in EG 2300, Coca Cola making added investment in RM (Pasquale PA 8/7)
- 11830 **ROMANIA *RR1*** Bucharest in EG 2300, IS, ID, political nx, QRM (McGuire MD 8/24)
- 11865nf **ECUADOR *HCJB*** Quito in GM 0430, YL w/nx of So America, ID, exc, ex-11960 (Witham HI 8/4)
- 11885nf? **UNITED ARAB EMIRATES *Abu Dhabi*** in AR 2230, chanting, nx? 2300, f (Findlater CA 8/16)
- 11900nf? **FINLAND *R Finland*** in EG 0200, tlk re Finnish athletes abroad, esp in the NHL (Linois PA)
- 11990 **KUWAIT *R Kuwait*** in EG 1820, tlk re play and characters, ID, sports nx, wx rpt, American pop mx including the Bellamy Brothers (Fredette ONT 8/25, Linois PA, Pasquale PA 8/7)
- 12015 **ECUADOR *HCJB*** Quito in EG 0110, "DX Partyline", ID, into "Rock Solid" pgm (Ponder TX 8/24) in EG 0430 with religious pgm (Linois PA)
- 12015 **MONGOLIA *Voice of Mongolia*** in CH/EG 1155, pop vocal w/closing ancmts 1159, IS three times, ID in EG 1201, instrum mx to begin EG xmsn (D' Angelo PA 8/20, Brandi NJ 8/11, Fredette ONT 9/11)
- 120195 **VIETNAM *V of Vietnam*** in EG 1230-1245, ID, continuous nx re E Timor (Montgomery PA 9/5)
- 12065 **RUSSIA *R Tikhii Okean*** in RS 1820, sentimental vocals, ID at 1828, f (Witham HI 8/14)
- 12085 **SYRIA *R Damascus*** in EG 2033, summary of nx from Syrian press, folk mx, f (Fredette ONT 8/27)
- 12095 **ASCENSIONIS *BBC*** relay in EG 2350, rpt on Somalia, ID, "The World Today" (McGuire MD 8/25)
- 13640nf? **TURKEY *V of Turkey*** in EG 2200, tlk on TK philately, exc (Robinson TN 8/8) in EG 2200, IS, ID, rpt on devastating earthquake in Turkey and other regional nx, g (McGuire MD 8/24)
- 13705 **RUSSIA *R Rossii*** Moscow in RS 1142, time pips, ID's at 1145 and 1200, sig tune (Brandi NJ 8/11)
- 13710nf? **SOUTH KOREA *R Canada Int*** relay in RS 2210, ID w/ "Your Land is My Land", p (Witham HI 8/14)
- 13710 **RUSSIA *R Netherlands*** relay Irkutsk in EG 0949, "Newslines", "Research File", g (Raymond NH 9/6)
- 13760 **NORTH KOREA *R Pyongyang*** in EG 2300-0100*, ID, nx, skeds, weak but clear (Findlater CA 8/21)
- 13820 **GERMANY *Hrvatska Info Center*** Croatia relay via Julich in EG 0710, sked for xmsn to NA, New Zealand, and Australia, ID, into Croatian at 0715, g (Witham HI 8/16)
- 13860 **ICELAND *Rikisutvarpid*** Reykjavik in IC 1432-1442*, tlk in lang between 2 OM's, g (Fredette 8/26)
- 15050 **COSTA RICA *RFPI*** in EG 1802, "World of Radio" by G Hauser, f (Humenyk ONT, Newbury NE)
- 15105nf **NETHERLAND ANTILLES *Deut Welle*** relay Bonaire in EG 0300, IS, ID, rpt on the earthquake in Turkey, mention of Kosovo problems, g (McGuire MD 8/24)
- 15150 **UNITED KINGDOM *Radio Canada Int*** relay in EG 2005, rpt on East Timor problems, wx rpt, "Earth Watch" re Ontario pollution, Cajun health issues, comedy show (McGuire MD 9/6, Brouillette IL 8/14)
- 15160 **ALGERIA *R Algiers Int*** in EG 1956-2101*, mx, pips TOH, ID, request mail, nx 2006, pop mx pgm from 2015, ID and s/off ancmts at 2100, f (D' Angelo PA 8/21)
- 15220nf **GERMANY *Swiss R Int*** relay Julich in IT 1630, nx, cmntry, ID's 1635 & 1643 (Treibel WA 9/20)
- 15240nf **NORTHERN MARIANAS *VOA*** relay Tinian in EG 1046, "VOA News Now", ID (D' Angelo PA 8/4)
- 15250 **SRI LANKA *VOA*** relay in EG 0300*, mix of tlk & jazz, ID at s/off, p (D' Angelo PA 8/13)
- 15320nf **IRAN *IRIB*** relay in SH? 1820, language lesson, lcl mx, ID, fgy, sked, exc, //15350 (Witham HI 8/22)
- 15360nf **UNITED KINGDOM *R Korea*** relay in RS 1840, translation from KR to RS, ID, g (Witham HI 8/14)
- 15385 **SPAIN *RE España*** in EG 0022, drugs found in Amer Airline Colombian hqs, exc (Newbury NE 8/27)
- 15400 **FINLAND *R Finland*** in EG 1250, Finnish pancake recipe in language segment, g (Newbury NE 8/27)
- 15415 **LIBYA *V of Africa*** in EG 2329, nx, ID, into unid lang 2333, strong sig w/slight hum (Alexander PA)
- 15425 **SRI LANKA *SLBC*** Colombo in EG 0242-0322, oldie rock mx including "Kung Fu Fighting", hosted by YL DJ, ID & external fgy 0255, 5+1 time pips 0315, nx, f/o 0322 (D' Angelo PA 8/29)
- 15445nf **THAILAND *R Thailand*** in EG 0545, econ nx, "A Page from Thai History", ID, nx (Witham HI 8/20)
- 15470nf **CANADA *RCI*** Sackville in EG 2001, ID, "The Arts in Canada", nx cmntry, g (McGuire MD 9/5)
- 15476 **ANTARCTICA *R Nacional Arcangel*** in SP 2200, soccer game relay from RAE, ID (Raymond NH)
- 15540nf **SINGAPORE *BBC*** relay in Nepali 1500, nx, cmntry, ID, ex-9595, f, //11685 exc (Treibel WA 9/6)
- 15545nf **CZECH REPUBLIC *R Prague*** in EG 2130, nx, arts pgm, heavy metal mx, exc (Brouillette IL 8/14)
- 15565nf **NETHERLAND ANTILLES *SR Vlaanderen*** Belgian relay in EG 2230, jazz festival (Pasquale PA 8/7)
- 15620nf **GERMANY *AWR*** relay Julich in lang? 0705, QTH in EG, YL in mid-East lang, g (Witham HI 8/16)
- 15655nf **ISRAEL *Kol Israel*** in EG/HB 0405, world/financial nx, HB press review, wx, //17535 (Witham 8/15)
- 17500 **BULGARIA *RB*** Sofia in SP 1645, tlks w/mx, mentions of Sofia & Bulgaria, f (Witham HI 8/13)

- 17550 CHINA CPBS in CH 0500, nx?, some intermediate mx, fade to weak by 0600, //17605 (Findlater CA)
 17565nf IRAN IRIB Dom Svce in Bosnian? 0620-0630*, Mid-East vocals, p, //15230 (Witham HI 8/14)
 17590nf IRAN IRIB Dom Svce in SH 0405, mx "Stranger in Paradise", p, //15610 better (Witham HI 8/4)
 17595nf GERMANY Deut Welle Wertachtel in EG 1635, film review, rpt on tatoos, exc (Witham HI 8/13)
 17620 FRENCH GUIANA RFI relay in SP 2310, nx, sports rpt, ID 2310, g (Fair VENEZUELA 8/29)
 17660nf ECUADOR HCJB Quito in EG 2030, religious mx "Inspirational Classics", g (Fraser MA 8/12)
 17680 CHILE Voz Christiana Santiago in SP 2307, mx, relig tk, ID 2307, g (Fair VENEZUELA 8/17)
 17705 USA V of Greece relay Delano, CA in GK 2000, GK & ME- type mx, amnts, exc (Newbury NE 8/28)
 ED: This xmsn runs from 1800-2200 and the last 15 minutes is in EG.
 17720nf PHILIPPINES R Pilipinas in Filipino 1740, nx rpt, ID, g, //15190 (Witham HI 8/16)
 17740nf? PHILIPPINES R Pilipinas in Tagalog/EG *0330-0400*, ID, dialog re trash collection in Manila, pop mx, skeds, weak but audible, //15330 (Findlater CA 8/21) ED: LN for August notes 17730 as the scheduled fqy for the 0330 transmission. They must be moving around a bit.)
 17745 ROMANIA RRI Bucharest in EG 0740, mx, YL w/pgm abt Romanian composers, p (Witham HI 8/5)
 17775 UZBEKISTAN R Tashkent in EG 1200, nxre Geneva Convention & Red Cross, g (Robinson TN 8/15)
 17795 AUSTRALIA RA in EG 2300, classical mx, tlks, ID, p (Fair VENEZUELA 8/17)
 17840 ANTIGUA BBC relay in EG 1500, nx re peace process in Northern Ireland, g (Newbury NE 8/26)
 17860 RWANDA Deut Welle relay Kigali in GM 2245, nx, cmntry, ID, g (Fair VENEZUELA 8/17)
 17870 SOUTH AFRICA Channel Africa in EG 1804, ID, political and financial nx, vg (Fredette ONT 8/25)
 17895 QATAR QBS in AR 2115-2126*, Qu'ran recitation, ID "min ad-Doha", NA, exc (Brouillette IL 8/14)
 18960nf SWEDEN RS in EG 1142, tk on asylum seekers & how to handle problem, ID, exc (Fredette 9/4)
 21520 ITALY RTV Rome in IT 0630, pop mx, "Italia", ID, nx & rpts, ments of Italia, p (Witham HI 8/24)
 21530 SOUTH AFRICA Channel Africa in EG 1445, ID, Real African mx, f (Montgomery PA 9/5)
 21550 CHILE Voz Cristiana in SP 2255, relig ballads, ID 2255, g (Fair VENEZUELA 8/29)
 21605 UNITED ARAB EMIRATES R Dubai in EG 1600, "Dubai nx", Holy Qu'ran, exc (Robinson TN 8/15)
 25870nf? USA WFLA in EG 1533, ad for Tampa Bay car wash, wx rpt, ID as "970 WFLA", Paul Harvey nx and comment, good at peaks w/very deep fades (D'Angelo PA 8/14)
 25910nf? USA WJFP in EG 1545, ministry pgm followed by ad for Flowers Bay, ID at 1548 "WJFP, Ft. Pierce-Coca Beach" (MW relay?), good at peaks with very deep fades (D'Angelo PA 8/14)

Clandestine, Tentatives, Presumed, or Unknown

- 9730 GREECE R Free Iraq in AR 0230, talk, ID 0240, //7255, 9865 (Brandi NJ 9/7)
 11560 NIGERIA R Kudirat in EG/Vern 1900, political tk, local African mx, ID's, weak (Alexander PA 8/22)
 11955 ANGOLA(p) R Nacional de Angola(p) in PT 2040, many mentions of Angola, p (Linois PA)
 15345 MOROCCO(p) RTV Marocaine(p) in AR 2000-2200*, continuous chants, ID unclear, ment Rabat, f (Findlater CA 8/18)
 175252 ARMENIA R Free Asia in Burmese 0129, ID in EG "This is channel 2, RFA Program channel 2", repeated in Burmese?, sequence repeated a dozen times or so (Brandi NJ 8/27)
 17690nf RUSSIA V of Russia in RS? 0158, occasional mx, IS 0159, not sure where, but given time of day, probably from Russia Far East relay (Brandi NJ 8/27)



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