

NASA

the JOURNAL

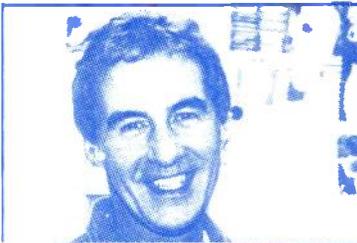
NORTH AMERICAN SHORTWAVE ASSOCIATION

VOLUME XXXVI NUMBER 5

MAY 1996

R A D I O N E T H E R L A N D S

A Fresh Season Of Programmes From The Heart Of Europe



There's an exciting season ahead for us and for you as we work hard to carry on the Radio Netherlands tradition of informative and entertaining programmes of the highest quality. Not only that, but we're also looking to the future and we have some exciting plans to improve and to extend our coverage in some programme areas. The technical side of international broadcasting leaps ahead - by the second - it feels sometimes! Our frequency and planning experts are among the leaders in making sure that we find the best and most efficient methods of getting our programmes to listeners in hugely differing situations all over the globe.

The driving force here at Radio Netherlands is enthusiasm - and this is reflected in two new programmes this season. For a long time we've been very keen to produce a programme that reflects what Europe's young people are thinking and doing and exploits two of Holland's most treasured resources - freedom of expression and a certain independence of thought! Our response programme is called *Roughly Speaking*. Meanwhile Martha Hawley is putting together all sorts of music from all over the world - and can't wait to share her eclectic enthusiasm! You really won't know what to expect next. To add to the intrigue, sorting out the programme's title could bring you a very nice surprise! (see story right) While we're working on the programmes themselves we're also working on improving our coverage of Europe - from the inside. If you want to know what's going on in Europe,

Radio Netherlands will be the place to be.

"So if it's going to be that good, how do I listen?"

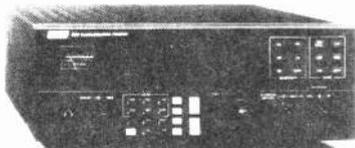
Programmes are now available in four ways: cable, short-wave, medium wave, and satellite. With high-power relays in Fievolanc, Bonaire, Madagascar and several locations in Russia, our stalwart short-wave service continues reliably to serve all four corners of the world. For listeners in Europe, our late-evening 1440 kHz medium wave transmissions are proving hugely successful. Likewise, an overnight mw/lm relay on CBC in Canada has won the station a whole new audience. If you live in Canada (or in areas within reach of a CBC station) enquire at your local station for details of transmission times - or call John Disney at CBC on 416 205 6107. Cable systems in cities from Dublin to Denver now carry our programmes as part of the World Radio Network (cable and Europe/Astra 1B trans 22 11 538 Ghz vertical sub-carrier 7 38 Mhz - North America/Galaxy 5 125 west trans 6 3 820 Ghz sub-carrier 6 8 Mhz). And for those who have a satellite dish, there's a dedicated studio quality sound on Europe/Astra 1C (transponder 64 10 936 Ghz vertical sub-carrier 7 74 Mhz).

Photo above left: just part of the Radio Netherlands family - Nick Meanwell (main picture); Veronica Wilson (inset top); Helen Barrington (inset middle); and Helène Michaud (inset bottom)

Monitor MORE with advanced equipment from Universal Radio!

DRAKE

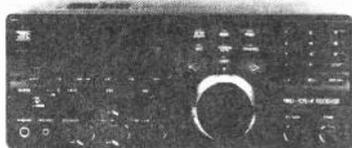
R-8A



The American made Drake R-8A is a microprocessor controlled, synthesized, all mode world band receiver offering excellent sensitivity high dynamic range and other features for the most demanding listener. You get many items as standard equipment, that would be extra on other receivers. Five bandwidths are supplied! Select bandwidth or mode with just one key press. A selectable synchronous detector reduces distortion due to fading signals. A Passband Offset control also aids in reducing or eliminating interfering signals. Other reception aids include selectable AGC, wide/narrow noise blanker, RF preamplifier for enhancing weak signals, RF attenuator for further improvement of strong signal handling capabilities and an adjustable RF gain. A Notch filter is also supplied to eliminate heterodynes. Two VFOs and 440 alpha-numeric memories are provided with three scan methods and three scan modes. A built-in 24 hour clock-timer allows the R-8A to turn on and off at preset times. Improved ergonomics, faster scanning and better AGC make the R-8A absolutely state-of-the-art! American technology at its best!

Drake R-8A List \$1099.900 Order #0080 \$1059.95 (+\$15)

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The Japan Radio Company triple conversion NRD-535 offers superb performance and features. 200 memories store: frequency, mode, AGC, ATT and filter selection. Scanning and sweeping rates are adjustable. Exceptional stability makes the 535 a strong choice for CW, RTTY and FAX. Four filter positions are available. Wide and narrow filters (4 kHz and 2 kHz) are supplied with two remaining slots. An ergonomic keypad is featured. Front panel controls include SQUELCH, AGC, DIMMER, AF and RF GAIN and TONE. A built-in 24 hour clock-timer is provided. With built-in RS-232 computer interface. The NRD-535 offers Pass Band Shift (PBS): a powerful means of eliminating or reducing adjacent channel interference. The Notch allows you to "slice-out" the offending tones with little fidelity loss.

J.R.C. NRD-535 List \$1429.00 Order #3169 \$1199.00 (+\$17)

The NRD-535D deluxe version includes these factory installed options: CFL-243 Bandwidth Control, CMF-78 Exalted Carrier Selectable Sideband (ECS) circuit and CFL-233 1000-Hz Filter.

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RADIO BY HALLICRAFTERS
By C. Dachis. A marvelous book of radio receivers, transmitters, speakers, early TV sets and accessories from the famous Hallicrafters label. Technical descriptions of every known model including dates, new and current prices. ©1996 Schiffer 225 p.
Order #3311 \$29.95



ZENITH TRANS-OCEANIC THE ROYALTY OF RADIOS
By J. Bryant & H. Cones. Here is the untold story of the world's most romantic and expensive series of portable radios. With a wealth of photographs, ads and documents, the authors tell the engrossing story of the 40 year history of this famous line of radios. A beautifully produced book. ©1995 Schiffer 128 p.
Order #0396 \$24.95



HEATHKIT - A GUIDE TO AMATEUR RADIO PRODUCTS
By C. Penson. A complete survey of every amateur and shortwave related product produced by Heathkit. This well produced book features unusually large and sharp photos. Even includes accessory items. ©1996 Electric Radio 248 p.
Order #0454 \$24.95

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NASWA Notes

Richard A. D'Angelo

2216 Burkey Drive

Wyomissing, PA 19610

Genie: R.DANGELO3

Internet: r.dangelo3@genie.geis.com

I am happy to report that the NASWA Reading Service is alive and well in the capable hands of **Bob Montgomery** (P. O. Box 1458, Levittown, PA 19058 or e-mail at rmonty3@aol.com). Bob resurrected the service last summer after a brief hiatus following the death of member **Vern Hyson**. Currently, only three of our members receive the *Journal* on tape. However, Sr. Montgomery is now in a position to expand the service to other members who are visually impaired. If you are interested in receiving the *Journal* via audio tape, please contact Bob at his mailing address or e-mail address for all the necessary particulars.

HELP WANTED!!! That's right, your club has a need for the services of a Correspondence Secretary to help out with the mail that comes into headquarters. **Bill Oliver** gets numerous "odd ball" requests for information that he tries to complete when his time permits that go well beyond the duties of a Publisher/Business Manager. Therefore, to help alleviate some of this burden from Bill's shoulders, we need a member to step forward to serve as the club's Correspondence Secretary. For the most part, your work assignments would come directly from Bill. If you are interested please contact either Bill (at either the 45 Wildflower Road address or electronically at <NASWA1@aol.com>) or myself as soon as possible. Thanks!

Our friends at the National Radio Club, North America's oldest medium wave DX club, have published the 4th edition of their famous Night Pattern Book. Publications Manager **Ken Chatterton** informs me that the book is computer produced and contains over 200

ANARC SWL Ham Net

Tune in Sunday mornings at 10 A. M. Eastern Time on 7240 LSB for the latest in shortwave, medium wave and longwave listening, DX tips, and up to the minute hobby news. Contributors share their DX tips via their own amateur radio stations or by telephoning a "gateway" station who then broadcasts the relayed tips. Contributions are also accepted via the Internet Relay Chat (IRC) channel #swl while the net is in progress. The net moves to 3940 LSB after the 40m session closes for an informal session. Net Controls Tom Sundstrom W2XQ, Hausie WB4JSP, Mike McCallum WA4SGC, and Bob Curtis WIEXZ host an always lively gang of DX monitors. (Best heard in the eastern half of NAm) Net info also available at http://www.trsc.com/swl_net.htm.

pages of maps and indexes for stations in the U.S., Canada, and Mexico. You can order your copy through the NRC Publications Center, P.O. Box 164, Mannsville, NY 13661-0164 for US\$22.95 in the U.S. and Canada; US\$21.00 to Latin America and Caribbean; US\$24.00 to Europe; and US\$28.00 to all other locations (NY residents must add state and local taxes). Tell 'em you read about it in the *Journal*.

From our Shortwave Center editor and *Cumbre DX* founder **Hans Johnson** comes information about an interesting project to get DX references into the hands of DX'ers that have trouble obtaining such information. Here's the scoop direct from Hans: "Cumbre DX is sponsoring a project to get 1995 PWBR's and WRTH's into the hands of

Our Motto is - "Unity and Friendship"

Dxers who do not have these books. If you are living outside of North America and would like one of these reference books, please write to P.O. Box 392, Odenton, MD 21113, USA. We are also asking for Dxers who would like to donate books to sign up as a donor by writing the same address or sending an e-mail to Compuserve 73042.3644@compuserve.com. We request that the donors pay the cost, which is about 10 US dollars, of mailing these books to those who need them. While we realize that this is asking a lot of the donors, please remember how hard it was for you to listen to shortwave when you did not have either of these books. In addition to many Dxers who have donated, both the WRTH and PWBR have agreed to donate 10 books each. Why not write today and sign up as a donor? Finally, don't hesitate to write if you need one of these reference books. We will do our best to see that you get one." Okay NASWAns, here's where the "Unity and Friendship" motto comes into play. Please support the folks at Cumbre DX if you can. Thanks!

Interested in joining a DX club "down under?" You may want to try the Australian Radio DX Club (ARDXC). Information and a sample copy of their bulletin (*Australian DX*

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 starting this month, totals for the **Scoreboard** column. He can also be reached through the Internet at: fkohl@ix.netcom.com.

News) can be obtained for 3 International Reply Coupons or US\$2.00 from ARDXC, Membership Business Manager, PO Box 227, Box Hill, Victoria 3128, Australia. The ARDXC has an electronic news service available to members as a supplement to its information packed print bulletin, ADXN. I believe they are the first DX club in the world to supplement their print bulletin with an electronic newsheet. The electronic supplement is edited by well-known Australian DX'er (and NASWA member) **Bob Padula**.

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

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 solely those of the submitters. Please submit all Musings to Richard A. D'Angelo, 2216 Burkey Dr., Wyoming, PA 19610 or via email - r.dangelo3@genie.com

Charles J. Shaw <cshaw@epix.net>, 71 Orchard St., Glen Lyon, Pa. 18617

Rich, I'm not sure if there's a policy on the number of Musings a member can post in one month, but I just received a reply letter from the Prime Minister of Canada regarding the "Save RCI" petition that I had brought down to the Fest. I thought it would be a good idea to share its contents with the rest of the gang. Here she goes....

Those of you who attended the 9th Winter Fest may recall a petition to save Radio Canada International that I had bought with me and placed on one of the display tables.

As promised, I attached a cover letter and promptly mailed it to the Prime Minister of Canada upon my return home. Today, 4/11/96, I received a letter of response and thought that you might be interested in reading its contents.

Dear Mr. Shaw:

On behalf of the Prime Minister, I would like to acknowledge receipt of your recent correspondence concerning Radio Canada International (RCI).

Thank you for writing to the Prime Minister. There has been a great deal of support, both within Canada and abroad, for the valuable role which RCI plays in broadcasting Canada's voice to the world.

The Government of Canada and the Canadian Broadcasting Corporation have announced that they will provide RCI with a total of \$16 million in funding. While this arrangement will allow the service to remain in operation for the 1996-1997 fiscal year, all parties with an interest in RCI must now work together to find a long-term funding solution.

Thank you again for writing to convey your views on this matter to the Prime Minister.

Yours sincerely,

Jill Bowerman
Special Assistant
Correspondence

I would like to take this opportunity to thank the 80 NASWA members who took the time to sign the "Save RCI" petition. I don't know if it will do any good in the long run, but it sure can't hurt!

I sincerely hope that I can make it to the 10th Winter Fest, too.

John Lyon, 2346 Dorothy Avenue, White Bear Lake, MN 55110

February is DXpedition time for the Minnesota DX Club (MNDXC). >From the Twin Cities of Minneapolis/St. Paul, it's over the tundra and through the woods to Camp Obigwa for the weekend. Of course since I was planning to leave a couple of hours early, it was crisis day at work. But I did get there in time to get an antenna up just as the sun was setting. Already the medium wave people were setup and band scanning. Our outings are like a junior high school dance: medium wave in one room, short wave across the way in the other room, and long wave in the middle.

Getting some wire out for an antenna was the first order of business. At the steepest part of the hill leading down to the lake, my feet slipped right out from under me on the wet ice. It's hard to enjoy a good sunset, flat on one's back, checking for broken bones. Reassembling my dignity - what was left of it - I strung my mini-beverage-not-even-onna-bush antenna out down toward the lake.

Africa was coming through when I turned on the Lowe 225. Sierra Leone was bubbling through on 3316, as well as most other West Africans. Later in the evening, sunrise in East Africa brought R. Tanzania through the best I've heard it, and other Southern Africans were even stronger.

Meanwhile, the medium wave and beacon people were going crazy. Our resident airport beacon expert, George, was already up to nearly a hundred with his Drake R8. And how do those long, long waves get into that itty-bitty bar loop? The medium wave people had some new hardware. Mike, our club president, is a Drake freak, and was displaying his new R8A. Also on display was the latest version of a homebrew, floor standing, loop antenna consisting

of two multi-turn wire loops at right angles to each other, with a phasing device connecting them. For a vicarious thrill, just hold a portable radio in the field of one of the loops, and slurp up the DX.

But our host, Randall, had the last word on antennas. He installed a Delta Loop that was the mother of all "portable" antennas. His wire went out the cabin window and probably 500' down the hill nearly to the lake. There he looped the wire up over a high tree top with a bow and arrow, and brought the wire back down to the ground. Instead of running a ground wire directly back to the receiver, he took his wire down to the lake, drilled a small hole in the ice, and froze a ground rod with the wire connected. Several hundred feet closer to the cabin, he did the same with another ground rod, and brought the wire back to the receiver. Don't know if this was a factory authorized Delta Loop, but his signals were 3/4 S-units stronger than mine on his good sounding Lowe Europa. But this is a portable antenna?!?

George had no-dozed all night (and the next day), and was up to 150 beacons heading for 200. In the late morning, I logged Zanzibar on 11734. East African propagation has been a problem for me. I'd been hearing them in there on occasion, but this time they were solid. A good feeling of personal satisfaction to log it, after spending several days there in the 60s. Later in the evening, Malawi plugged up another hole in my African map.

Chuck, our resident Heathkit author and expert, surprised us by showing up with an old Collins HF-8050 receiver. Only half the size and weight of a box car, the receiver is tuned with thumb wheels, making carpal QSY syndrome a distinct possibility. He pronounced the Collins dramatically better than his Lowe 150 for long wave. Assuming one has a Mack truck to transport it.

Saturday night there was both a pizza and KFC run to town. It also gave some time for quiet listening back at the camp. Even the younger folk were in bed by 1 A.M., leaving the Brazilian sunrise unlogged. Virtually no PNG or Indos were heard either morning, in contrast to only a few years ago. Thought this dearth of sunspots was supposed to light a fire under the tropical bands.

On Sunday we packed up and headed back in glazed condition to our spouses. I was so tired of sitting that I took a walk before a nap. When I try to explain this activity to my colleagues at work, they just shake their heads. Crazy John is at it again.

Can't wait til next year.

(Great musing John. Let's hear from some other members about their DXpedition experiences. —RAD)

Eric Bueneman, N0UIH <EBSJDJX@aol.com>

Sub: Theory on Pirate Radio

So many of you have heard the pirate radio stations that are on the air these days. Reggae artist Shabba Ranks sang: "Pirates, they call us illegal broadcasters, just because they play what the people want" in his 1992 song "Pirates' Anthem". What motivates a person to become a pirate, or illegal broadcaster? I think that the most likely person to become a pirate is a frustrated disc jockey who cannot find a job at a licensed station. Several reasons are clear. Most college radio stations are now restricting their on-air staff to students only, and they also have begun to establish maximum service caps on their air talent as well. For instance, the station I used to work for in Ferguson, MO, KCFV (89.5 MHz), removed non-student

volunteers from the airwaves at the station in April 1991, and established an eight-semester maximum service requirement in May 1993. What happens when that service limit is met? Small market stations have few jobs available, and whatever is available usually goes to talent living in the city of license and surrounding areas first. The picture doesn't look too much better in medium markets. In a large or major market, you would very likely have to have a good agent, or be good enough to wrest a job away from the market's prima donnas yourself. It would be difficult to wrest a job away from someone like a Howard Stern. If you want to work at a Christian station, you have to comply with mostly Protestant doctrines (except if you work at WEWN or KJES, there, you have to comply with Roman Catholic doctrine). Rarely, if ever, a broadcaster would be willing to hire someone with a disability. If a broadcaster cannot find a job anywhere, not even at a so-called "community" radio station, such as my local KDHX (88.1 MHz), or even a so-called "public" radio station, such as my local KWMU (90.7 MHz), where does he or she go? Those who don't want to give up on radio will likely buy a surplus low-power SW transmitter, some audio mixing equipment, several audio sources, and go on the air as a pirate. Listen to your pirate radio stations when you get the opportunity. Chances are, you may find a former college radio DJ there. Some pirates are also broadcast engineers, others are experimenters, and still others are hobbyists.

An alternative to pirate radio has popped up in recent years... the Part 15 broadcast station. This has been very popular with college broadcasting programs, and is now being promoted by companies who make Part 15 transmitters and other equipment, such as Ramsey Electronics and Pan-Com International. Part 15 broadcasting is not allowed on SW at present, it's confined to the AM (MW) Broadcast band (530-1700 kHz) and the FM Broadcast band (88-108 MHz). Most of the AM Part 15 stations are carrier-current stations, which utilizes the electrical system of a building or power lines in a neighborhood to act as a transmitting antenna. Those that are not carrier current have an antenna length restriction of 10 feet. As for FM Part 15 stations, there's a cap on the station's effective radiated power, which, to the best of my knowledge, is one Watt. I run Part 15 station KCGR on 107.1 MHz (ex-KXLW), also known as Cougar 107, and runs a pop-oriented '70s format, augmented by radio drama and contemporary jazz. My station has an ERP of 800 milliWatts. It's transmitting antenna is in the attic, and covers a radius of about half a mile. The maximum distance a Part 15 station can be allowed to cover is about five miles. Unfortunately, most pirates haven't explored this option.

What keeps a pirate going? Maybe it's the fun of dodging the FCC? They have shut down plenty of pirates, most notable of which being Jolly Roger Radio. Still, several others keep going. Maybe it's providing a service not available anywhere else on the radio dial (AM, FM or SW)? Maybe it's being on the air for the love of radio? With air talent salaries out of control, we don't see that too often. It will be interesting to see what others have to say about this issue. 73, Eric-N0UIH

Ron Howard, 4000 Rio Road, No. 48, Carmel, CA 93923 <howard@redshift.com>

Congratulations to NASWA for providing SWL'ers & DX'ers worldwide with the opportunity via the Web to view portions of the JOURNAL. It makes me happy to see such efforts to improve our great club, but as the letters to "Musings" recently have shown, there are various reactions to this change. For myself, I see the chance to attract a more worldwide membership. With the Web page and the ability to E-mail contributions to Fred, it is now easier and faster than ever to move information around. After 25 years of being a member, I find that all these changes have motivated me to try harder to be a more active member. I look forward to another 25 years of FUN and ENJOYMENT!!!

I wish NASWA continued success, Ron

Tim Davisson, 3539 Ruth Drive, Norton, OH 44203

Rejoined NASWA last year for the 3rd time! I've been an SWL since the early '60's. Am age 47, married, and have worked in the broadcasting industry since '66. Was on the air as a dj/program director in several large markets for about 15 years, and have been in advertising sales the last 15 years. I sell for WAKR (1590AM), and WONE-FM (97.5) in Akron. So, my hobby (radio listening) became my vocation as well!

I'd like to ask NASWA members who live in cities who have jazz/NAC ("new age-jazz" formatted stations) if they'd like to correspond for the purpose of swapping tapes of their local stations. I don't mean airchecks... nothing edited/or/scoped. I'm interested in the music! I'll provide the C90 cassettes, and return postage. Over the years I've been fortunate to find several really great friends this way... as these guys and I swap either talk tapes or letters along with the cassettes. This is OK, but the talk/tapes are NOT necessary if it's a hassle. My main interest is hearing jazz stations in other markets. I'll be happy to return the favor for others... since nearby Cleveland has virtually every radio format covered and is easily heard. Anybody interested, please contact me at the above address. Thanks NASWA!

Doug Robertson, 4045 Sunset Lane, Oxnard, CA 93035

The June 1994 issue of the Journal detailed my preference for round 24 hour analog UTC timekeepers suitable for the SWL shack or one's wrist. My enthusiasm continues unabated; I recently popped for a new GLYCINE/FALCON Airman GMT 2001 quartz wrist watch replacing the self-wind GLYCINE I had worn since 1967 (which still works fine). After two month's wear, I am pleased to note the quartz model has only gained seven seconds on the WWV time tick. The hack feature allows precise setting.

This watch may be advertised unpriced with an invitation to "call." That is a clue that the retailer may be offering it at less than the fair trade price. Howard Metz at 1-800-959-5599 can quote you his best price on this or other world time watches. Now available in three models - stainless, stainless and gold, or gold all in choice of black or white faces - the GMT 2001 is a superb quality 24 hour round analog two time zone timekeeper that will probably outlast this SWLer, based on the utter reliability of my first GLYCINE model.

The watch can serve as a sun compass with the enclosed instructions. This could be helpful in orienting a beverage antenna on DXpeditions. Finer orientation is possible than the cardinal compass points because the 24 hour marks are spaced very 15 degrees, just as UTC time progresses around the world at the equator.

Did you know that watch hands rotate, well, clockwise (I hesitate to say "rightward"), because they follow the shadow cast by the gnomon of the venerable horizontal sundial, a Northern hemisphere invention? Had the first clock been invented South of the equator, I daresay watch hands would in all probability move in the opposite direction. But would we have called that "wrongward"? Horizontal sundials are numbered clockwise in the Northern hemisphere, but equatorial and rarer vertical sundials are numbered counterclockwise. All types must be designed exactly the opposite for correct time in the Southern hemisphere. Equatorial sundials can be adjusted for latitude, improving their accuracy.

It is uncertain when wrist (portable mechanical) watches were first made, but there can be little doubt they first appeared after the 15th century invention of the mainspring in Nurnberg. Gravity clock weights were not exactly mobile, and there was a great need to develop an accurate timekeeper that would function at sea for easterly or westerly navigation. Latitude was determinable prior to accurate fixing of longitude at seas, and prudent early mariners sailed mainly North or South when out of sight of land.

Thus, the pattern of what we call "clockwise" was determined by the Northern hemisphere world. Sundials count only sunny days, and then only 12 or so sunny hours of a 24 hour day. Some time passed before the logical depiction of the 24 hour dial (24 hours, once around) caught on in mechanical timekeeper. Fortunately, for the mobile SWLer, we can carry the true analog representation of Time, local and UTC, on our wrist wherever we DX, if we adapt to the available 24 hour dial.

73, Doug

We close out the column with a follow-up to Joe Buch's announcement in April's Technical Topics.

Charles J. Shaw <csaw@epix.net>, 71 Orchard St., Glen Lyon, PA 18617

I am left-handed and will shortly be taking my vacation in beautiful Australia. After reading Joe Buch's most stimulating Technical Topics article in the April issue of The Journal, I began to ponder the various implications of being left-handed and using this "wunder device" in the southern hemisphere. Specifically, will I have to turn the crank in a clockwise or in a counter-clockwise direction when I'm "down under?"

Not wishing to damage my shortwave receiver, I've tried repeatedly to contact Mr. Buch directly at the NASWA Lab, but, obviously for security reasons, the lady that I spoke with kept insisting that I had the wrong number.

Additionally, in anticipation of the resultant counter-torque/spin created by using this device, I have covered the majority of the external surfaces of my newly purchased YB-400 with Velcro. I would have covered more surface area, but my dog ate the rest of the Velcro. Bad girl! (The Vet says that he thinks that she'll pull through.)

I have already sent my request for the "wunder device" to Mr. Kris Field at the Company Store and hope to hear from him soon.

Can anyone please contact Joe Buch directly and relay my concerns to him? I'm leaving for Australia within the next few weeks and would like to have this resolved before I leave.

Thank you, mate! (That's Australian, you know.)

FRENDX: Twenty Five Years Ago....

M. R. Leonhardt of Liberty, IN, who later became the club's Executive Director, and Tom Gavaras were new members. Renewing members included Ralph Perry (3rd year), Bill Flynn (4th year), Ed Pyatt (6th year), and Bill Sparks (8th year). Charlie Loudenboomer presented "DX Puntest," a collection of DX related puns such as "The DXer who manages to log Portuguese Timor has himself a real 'Dili' of a catch!" ANARC Rep. Gray Scrimour reports ANARC Merit Awards were given to Ernest Cooper, August Balbi, and Hank Bennett. In the Shortwave Center, Serge Neuman writes about propagation for DXing while Ed Shaw provides a treatise upon SWL receivers, antennas, SWL gear, and related gadgetry. In the QSL Report, editor Gregg Calkin points out interesting verifications from Burma, Gambia, Somalia, and Radio Nordsee International. The QSL of the Month was from the Polish Pathfinders' Broadcasting Station. Flashsheet editor Al Niblack notes 23 reporters supporting his column in May.

Calendar Of Events

- May 3-5 Convention.** The 1996 ODXA Convention will be held at the Holiday Inn (1-613-549-8400) in Kingston, Ontario on 3-5 May 1996. Located midway between Toronto and Montreal, this is the first time the club will be running an event like this outside Toronto. Friday evening will feature an informal gathering with a SWL Quiz. Saturday's forums feature topics such as an introduction into shortwave radio, the Internet, propagation, and medium wave DX'ing. Register at the door for \$12.00.
- May 17 Meeting. Philadelphia Area NASWA Chapter.** Kulpville Holiday Inn, Kulpville, PA at 7:30 PM. For more information contact Dan Cashin at 215-446-7831.
- May 17 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 508-470-1971 or Internet: 74007.3434@compuserve.com.
- May 17 Meeting.** The Chicago Area DX Club will be meeting at 7:00 PM at the Faith Lutheran Church Parish Hall in Oak Lawn, IL, 9700 S. Melvina Ave. We will be having a pot luck dinner. Bring your favorite dish. For more information contact Ed Stroh at 708-877-5204.
- May 18 Meeting.** The Miami Valley DX Club (all band orientation) meets at 1:00 PM. For more information plus this months meeting location contact Dave Hammer at 614-471-9973 or write to MVDXC, Box 292132, Columbus, OH 43229-8132.
- Jun 08 Meeting.** The Tidewater SWL's meet at 6:30 PM. For more information plus meeting location contact Joe Buch at 804-721-2782 or Internet: buch@exis.net
- Jul'96 Convention.** The International Radio Club of America will hold its annual convention in Ocala, FL on 19-21 July 1996. More details to come.
- Aug'96 Convention.** The 1996 Worldwide TV-FM DX Association Convention will be held in Estes Park, CO on 9-11 August 1996. Lodging will be at the Dripping Springs B&B/Cabins, two miles east of Estes Park on US Highway 34. Call 1-970-586-3406 and talk to owners Oliver and Janie Robertson about rooming choices. Room rates run from \$74.00 to \$89.00 per night (sleeps two) and a cabin which sleeps three for \$95.00 per night. Send \$1.00 to Jim Thomas, 4437 S. Stover, Apt. 3, Ft Collins, CO 80525 for a complete convention packet.
- Sep'96 Convention.** The National Radio Club will hold its annual convention at the Ramada Inn in West Knoxville, TN from 30 August-2 September 1996. More details to come.
- Mar'97 Contest.** 1997 North American DX Championships. Further information will be published in the Journal or you can send a self-addressed stamped envelop to 1997 NADXC, c/o Dr. Harold Cones, 2 Whits Court, Newport News, VA 23606.
- Mar'97 Convention.** The 10th Annual Winter SWL Festival will be held at the Kulpville Holiday Inn (Exit 31 on the Northeast Extension of the Pennsylvania Turnpike) on 13-15 March 1997. Organized by the infamous "gang of three" (Messrs. Brown, Cones, and Field) this all wave gathering attracts over 200 hobbyists each year. Further details and information will appear later this year.

Members are invited to submit items to be included in this calendar to Rich D'Angelo (Internet: r.dangelo3@genie.com) or Ralph Brandi (Internet: rbrandi@lucent.com).

NCS466

Visit our club home page on the World Wide Web at <http://www.mcs.com/~ralph/html/naswa/>

Easy Listening

Richard D. Cuff
1016 Chestnut Ridge Drive
Timonium, MD 21093-1716
CompuServe 73651,153
Internet rcuff@meritc.com

Scandinavia on the Fly

Looking for a quick take on news and events in Scandinavia? Consider **Radio Sweden's** weekday 30-minute program, **60 Degrees North**. You get a quick half-hour on news about Sweden and its Nordic neighbors. The Friday edition includes a week-in-review wrapup. Other days see a feature program embedded in the final 15 minutes of the day's broadcast. These include **Sportscan** (Tuesday), a weekly look at Sports relevant to Swedes and Sweden, **Money Matters** (Wednesday), a look at business and economics, plus several biweekly programs including **Mediascan**, every other Tuesday, hosted by George Wood. Much like Radio Netherlands' *Media Network*, **Mediascan** looks at international mass media in general; an edition I recently sampled featured the World Radio Network, with no specific discussion of anything specifically dealing with shortwave. Unfortunately **Mediascan** is just a vestigial shadow of its predecessor, **Sweden Calling DXers**.

For me, the 1230 and 1330 North American releases are easiest to hear in "easy listening" quality, which means I'm rarely able to listen to Radio Sweden live.

HCJB Suggestions

While most of HCJB's locally originated programming focuses on Latin America, **On-Line** is a magazine program on European matters. A recent program featured cowboys, dead frogs in the thousands, and factory workers that are paid in underwear. Saturdays 0200 on 9745 kHz to Eastern North America. You can E-mail comments on the program directly to online@hcjbuk.gn.apc.org.

Inspirational Classics features classical music inspired by religious events, the church calendar, and Christian history, and airs Fridays to the Americas at 0230.

BBC World Service Highlights

Current Affairs and Documentaries

Sundays, 1401 beginning May 19th: **International Question Time** returns with another six live one-hour phone-in programs. There are not set discussion topics—a panel of guests expert in such areas as the environment, economics, entertainment, and social affairs participate in each program. Phone calls are taken beginning at 1200 on the day of broadcast, and questions can also be sent via mail, fax, or E-mail. An edited 45-minute repeat airs Mondays 0615.

Mondays, beginning May 20th, 0230: Malcolm Billings returns with another four-part of archaeological programs in the **Heritage** series. Archaeological activities in Zanzibar and the United Arab Emirates are featured in May. Also airs Saturdays 0830, and Sundays 1130 and 1530.

Music, Drama and The Arts

Saturdays, 2230: **Plays of the Week** include the following:

Time of my Life (May 11th), a drama with a tangled web of jealousy, deceit, mistrust, suffering and lust, all in just the first scene. Gordon House directs the Alan Ayckbourn production.

Broken Glass (May 18th and 25th), a two-part Arthur Miller production where "public concerns meet private neurosis", according to the author. David Thacker directs this, and he directed the play's production at Britain's Royal National Theater.

Reminder: **Play of the Week** is now repeated to the Americas at 0530 Sundays.

Fridays, 0230: **30-Minute Drama** includes three ghostly stories with a comic touch in *Tales of the Supernatural*:

Lightbulbs features the return of a man's dead niece following his return from a trip abroad;

The Angel of Islington features an aging academic awakened one morning by an amnesiac, unclothed angel sitting at the foot of his bed;

A Sea Change explores the coexistence of past and present at an accident at sea off the Cornwall coast.

The series begins May 17th; its first airing is Tuesdays 0815, followed by Wednesdays 1130.

Sundays, beginning May 12th, 1401: *Eurovision* is a single 45-minute look at the 40th anniversary of the Eurovision Song contest, an annual event viewed by over half a billion people in more than 100 countries. Serious musicians, critics, and the recording industry might snub the event, but 500 million people can't be all wrong. Find out why the contest draws so much interest and whether or not politics plays a role. Repeated Mondays 0615.

Sports

Saturday, May 11th, 1400: *Sportsworld* will air the Football Association's Cup Final from beginning to end, including Extra Time if warranted.

Mondays, beginning May 13th, 1215: *Olympics Fact File* is a new four-part 15-minute series on various useful and somewhat trivial facts about the Olympics. Lighthearted looks at Olympic history, the reason specific events are included, and the real composition of gold metals are included. Also airing Tuesdays 1715 and Fridays 0630 to the Americas; Mondays 2130 to Europe.

General Features

Wednesdays, 1901 to Africa: *Talkabout Africa* is a weekly 30-minute look at the top African political stories of the past week. There is rarely a dull moment in African politics, and this program is likely one of the most impartial perspectives on African politics available to Africans, when you

consider most media is state-owned or heavily state-influenced. Also airs Wednesdays 1615 and Saturdays 0531 to Africa, but I'm not sure there are frequencies targeted to Africa that propagate well to North America at that time.

Mondays, beginning May 13th, 1230: *Your Media: The Newspaper* is a new four-part 15-minute series on the British newspaper industry. National, regional, and local papers are discussed. From my own past visits to the UK, it seems they take their newspapers a lot more seriously than we do here in the USA, although some of the tabloids could hardly be called "serious".

Tuesdays, beginning May 14th, 2315: Sarah Ward returns with another seven-part 15-minute look at news of interest to the world's youth in *What's News?* Young reporters interview newsmakers, and a young reporters' competition will be part of the program's run. Send entries to *What's News?* at the usual Bush House address. First airs Tuesdays 0715 and 1145 to the Americas, with 1545 Tuesdays to Europe also a good bet.

Thursdays, beginning May 30th, 2315: *Going South* should be especially interesting to us Americans: writer and broadcaster Michael Goldfarb returns to his native Mississippi for a look at the 130-year old effects of the Civil War on the "southernmost" state. First airs Wednesdays 1515; also repeated Fridays 0715.

Quizzes and Light Entertainment

Mondays, beginning May 13th, 0330: *Hoax* returns for a five-part 30-minute run. In this quiz the listener and panelists try to guess which two of three seemingly tall tales are really true. Repeated Wednesdays 1715 to the Americas, and Mondays 1830 to Europe.

Mondays, beginning May 20th, 1130: *One Foot in the Grave* is a four-part 30-minute radio adaptation of the eponymous hit BBC television comedy. "Victor Meldrew", played by Richard Wilson, is regarded as Britain's grumpiest senior citizen. Does British humor travel well across the Atlantic? Tune in and see. Also airs Sundays 1615 to the Americas, and Tuesdays 1830 to Europe.

Target Topics: Folk Music

Starting off are some thoughts and suggestions from John Figliozzi:

Folk and indigenous music is one of the very best reasons to own a shortwave radio. With the exception of a few programs on public and college radio, such music is just not available on the local wave bands. Some program suggestions: A fine program of Chinese traditional music is broadcast on Voice of Free China every Monday UTC at 0215 and repeated Tuesday at 0315 on 5950 and 9860 kHz. Jade Bells and Bamboo Pipes features lots of music and a minimum of talk which amply describes the music to be played and its historical background.

Music Time in Africa is heard on VOA Sundays at 1730 and 1930 UTC. These are two separate programs, the first emphasizing different traditional African musical styles and the second more oriented to modern African music. Rita Rochelle and Leo Sarkisian are excellent hosts and provide helpful background information. Both programs are broadcast in the African Service; reception is best in Eastern NY State on 15580, 15410 or 13710 kHz.

The BBC has two excellent programs in this genre: Folk Routes and World of Music are heard at various times in the five World Service streams. Ian Anderson (not the Jethro Tull one!) plays traditional music from the British Isles in the former; the latter features a worldwide music smorgasbord that is not necessarily folk but is certainly eclectic and indigenous. This unique program is hosted by Andy Kershaw and was recently expanded to 30 minutes by popular demand.

Radio Australia has a similar program that focuses on East Asian and subcontinental music called Music Deli. Try 5995, 6080, 9580, 9860 or 11800 kHz. at 1330 UTC on Fridays.

Speaking of subcontinental music, the most ready source of this is All India Radio. AIR's General Overseas Service in English (1745-

1945 and 2045-2230 UTC) to Europe (heard quite well seasonally in summer in Eastern North America on 11620 kHz.) features copious amounts of Indian music of all types interspersed throughout its transmissions. Especially popular in India is film music—the cinema is wildly popular with Indians.

More "accessible" folk music can be had from Radio Australia nearly every weekday at 1210 UTC (approx.) These are tunes that have their roots with the earliest European settlers of Oz, but are distinctive nonetheless. Frequencies are the same as noted above.

Voice of Russia has an excellent entry in this genre with Folk Box, which includes music from one or more of the over 100 nationalities within the Russian Federation and the CIS. A little harder for me to digest, but an excellent program is Skylark from Radio Romania International. Unfortunately the station has been virtually unreadable in Eastern North America for some time now. Its European Service is actually better heard here than the transmissions intended specifically for North America. Therefore, try between 2100 and 2200 UTC on Sunday on 9510 and 7195 kHz. Other higher frequencies will likely be added for summer; try 11910. This program is folk music on the wild side, from my perspective.

Swiss Radio International has a monthly program of Swiss folk music on UTC fourth Sundays starting around 0415 UTC on 9905 kHz. The program is repeated Mondays at 0445 on the same frequency. HCJB's Musica del Ecuador features a mix of Ecuadorian folk and popular music every Saturday UTC at 0130 and 0530 on 9745 kHz.

To close this compendium of folk music programs, try the Voice of Vietnam every evening which has music in all its 1/2 hour broadcasts between 0100 and 0300 UTC on 7250 kHz. as relayed via Russia. Also try Radio Nacional do Brasilia's daily English broadcast between 1200 and 1320 on 15455 kHz. which also features copious amounts of Brazilian music—some of it popular, some of it traditional.

Next, Peter Bowen submitted the following capsule review on Voice of Free China's Jade Bells and Bamboo Pipes:

At the start of each program, the host informs the listeners of the music that is to be heard. He gives us some background on the composers and/or performers, as well as the instruments used. We are also told about the music itself, including an outline of the story or message that it wishes to convey.

Although the host appears to be a native English speaker, his style of presentation is wooden and stilted, making otherwise interesting material tedious to listen to. In addition, background information that is given is brief and rudimentary—it sounds as if he is simply reading the liner notes. Given the general unfamiliarity most listeners in the West have of classical Chinese music, this poor research is rather disappointing.

The music in the program is connected by a common theme, whether it is one long selection divided into several individual parts, or a series of shorter pieces. This common element could be the same artist playing all selections, all compositions on the same topic, etc. The music itself is quite pleasant: it is often peaceful, occasionally haunting, and almost always evocative.

Jade Bells and Bamboo Pipes is first and foremost a program of music—the spoken word is of minor importance. It is designed to entertain, rather than to entertain and inform. Once the brief 2-3 minute background is

given, the listener is on his/her own, as the music plays for the remainder of the program with no informational breaks.

As pure entertainment, the program gets high marks. As a source of information on Chinese classical music, it fails.

As you can see, there are at least two ways to skin a cat—you can either look at a music program consisting of music, or you can look at it as being *about* music. Both approaches are sound.

I was, frankly, surprised I didn't receive more suggestions for May's Folk Music topic, as I know folk music is one of the more popular program types, according to our Winter SWL Festival surveys. Maybe you were all outside doing yard work after the long tough winter. In that event, perhaps these upcoming topics will motivate you to put pen to paper (or keys to keyboard):

June: Book Reviews and Readings

July: Documentaries

August: European Current Affairs

Wrapping Up

Thanks, as usual, to Peter Bowen and John Figliozzi for their assistance. Thanks also to Steve Bies for his note in March which I forgot to acknowledge last month.

Until June,

73 DE Richard



Surf Report by Ralph Brandi, rbrandi@lucent.com

Paul Dwerryhouse's valuable ShortWWave pages have moved to a new address. The site holds a wealth of information, including a current list of broadcasts in English. You can find them now at <http://ariel.ucs.unimelb.edu.au/~pbd/SW/index.html>.

Ron Howard in California points out that Indo DXers may find the home page of Kang Guru II Radio English useful. "They produce an English language program for Radio Republik Indonesia stations, such as recently noted RRI-Jakarta on 9680 kHz., from 1231-1251 UTC, on Tues, with 100% readability via new 250 kw xtrm." Thanks, Ron. The site includes schedule information for RRI-Jakarta, as well as program transcripts. You can find Kang Guru II Radio English at <http://www.indo.net.id/commercial/waterfall/kangguru/kangguru.html>. Note that this site is being reconstructed (in fact, this URL is slightly different than the one Ron sent me), so the URL may change slightly by the time you get this.



Adrian Peterson's Diary

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

This month we welcome Dr. Adrian M. Peterson of Adventist World Radio as a regular NASWA editorial contributor. Adrian Peterson's name will be well-known to many members as the producer of AWR's "Wavescan" DX program. Born in Australia, he has developed a great breadth of DX experience since starting in radio in 1938. He has visited many stations over the years, and has collected over 20,000 QSLs since 1944. He was the director of AWR-Asia in Poona, India for 10 years, and host of the popular "Radio Monitors International" DX program broadcast from Sri Lanka from 1975 to 1987. He has a Ph.D. in international radio broadcasting, and is AWR's Coordinator for International Relations and a member of the AWR Controlling Board. We look forward to many future entries in... "Adrian Peterson's Diary." —Jerry Berg

WaveScan 42

This is the story of All India Radio near Bangalore, as visited by a group of 20 amateur radio operators of the Bangalore Amateur Radio Club who arranged an educational trip to the SW transmitting station located at Doddaballapur, near Bangalore in South India. This was one of the best trips of its kind in recent years.

Forty-two club members loaded themselves into six cars, jeeps, and vans which were also loaded with South Indian delicacies, such as ravakesari, potato chips, pickles and oranges, and, of course, huge water cans containing drinking water. They set off from Bangalore at 9:30 am on Sunday morning, driving out towards Doddaballapur.

As the motorcade was approaching Doddaballapur, it was thrilling to see the massive array of tall antenna towers that seemed to reach up into the skies. Later on, they learned that the shortest of these towers

is 60 meters tall, and that the other seven are 125 meters tall. Work on this project began back in 1986, and the first two transmitters were commissioned in 1988. They are named "Ganga" and "Cauvery." All six transmitters are rated at 500 kw., and all are named after large rivers in India.

These transmitters utilize what is known as a digital system of pulse modulation, which ensures a high degree of efficiency and an excellent level of sound quality. The programs that are broadcast are produced in studios in New Delhi, and are carried to Doddaballapur by satellite link, coaxial cable and microwave relay. The cluster of antennas, which is at a considerable distance from the transmitters for reasons associated with the concentrated intensity of RF energy, is reached by car.

The antenna system is enclosed in a protected area. Before any transmitter is switched on, a warning siren is sounded three times at an interval of three minutes. This is for the safety of staff or visitors who may be in the area of the antennas. On some occasions, birds have become prey to the high energy fields.

Altogether there are 27 antennas in the antenna farm, four of which are curtains. These are indeed an impressive sight. Each tower is protected against lightning strikes. An interlocking system offers safety to the staff and to the equipment as well. The transmitters are on the air 20 hours a day, nonstop. The rest period is between 11 am and 3 pm local time daily. It takes only 40 seconds for a transmitter to come up to full power once it is switched on. The 300 ohm feeder lines are 75 mm in diameter.

Currently, the transmitters are on the air in 24 languages, including Swahili to Africa, Chinese and Japanese to Asia, as well as Hindi and English. All India Radio plans to

increase the number of languages to 34. The programs from this station are beamed towards Africa, East Asia, the South Pacific, Europe, and the Gulf countries. These programs can be heard throughout the night in the standard SW bands, ranging from 9 to 16 MHz. The radio visitors were wonderstruck at the giant size of the valves which cost around Rs 500,000 each. They are manufactured in Switzerland by Brown Boveri, and the average life of a valve is around one and a half years. Orders for new valves must be placed at least one year in advance.

The 30 ton air conditioning plant itself cost one third of the total cost of the project. The cooling system includes water purification and air purification. The monthly bill for electricity is about Rs 300,000, since the voltage requirement is around 66,000. The local electricity company has established a special sub-station at the site.

There are nearly 100 staff members working at this huge transmitting station, many of whom are highly qualified engineers. All of them stay at the quarters provided at Yelahanka, and they have their own bus system for transportation to and from the site.

Since the group of visitors was quite large, it was divided into three smaller groups, and each group was led by an engineer, who gave them a guided tour. They were fortunate to be present when the transmitters were switched on. This is a rare opportunity, as visitors normally are not allowed at this time. At any given time, two transmitters are working in two different directions. While the visiting group was there, transmitters "Krishna" and "Cauvery" were switched on. The other four transmitters, "Narmada," "Yamuna," "Ganga" and "Godavari," were to be switched on at later times. The entire transmitter building is designed and constructed in the shape of a huge hammer. The architect was granted a special award for this unique design.

WaveScan 52

South Africa is a varied land located at the southern tip of Africa. It is barely 1,000 miles across, and just 800 miles deep. It has two

capital cities and two languages. The capital cities are Capetown for legislation and Pretoria for administration, although Johannesburg, or Jo'burg as it is known, is the largest city. The two official languages are English and Afrikaans, and many African languages are also spoken in this multi-ethnic country.

South Africa is famous for its fabulous diamond mines and gold mines, its wild animals, and its wild flowers. The diamond fields were opened when the children of a Boer farmer found a "pretty pebble" in the sandy bed of the Vaal River in 1866. The gold mines were opened in 1880, and the sale of gold has been the major factor behind South Africa's prosperity. Wild animals abound in the country. In the Kruger National Park you will see elephants, leopards, lions and zebras, all in their natural habitat. The wild flowers, of uniform and variegated hue, can be seen stretching for miles in the wide expanses of their semi-desert areas.

South Africa established wireless transmission facilities for communication purposes just before the outbreak of World War I. The first stations were established in Capetown and Durban. These spark transmitters were identified with the non-uniform callsigns CTN for Capetown and DBN for Durban. They operated on 300 and 600 metres, corresponding to 1,000 and 500 kHz in what is now the standard MW band. They had a range of somewhere around 500 miles for communication with passing ships.

After the war, the two stations operated under regularized callsigns in the VN series: VNC for Capetown, and VND for Durban. The British Navy operated two wireless communication stations in South Africa at this stage, identified with callsigns in the BZ series. Durban identified as BZI, and Port Nolloth as BZJ.

The first wireless broadcast of an entertainment nature went on the air on the celebrated date of December 29, 1923. This was a 500 watt transmitter located at Johannesburg, operating on 450 metres, 665 kc, under the unique callsign JB. This station was owned at first by the South African Railways, but ownership was transferred

during the next year, 1924, to the Associated Scientific & Technical Societies.

A similar station was established in Capetown, again with a power of 500 watts, with the channel 400 metres, 750 kc. This station operated under what we would now see as an American callsign, WAMG. The third radio station in South Africa was established in Durban on December 10, 1924.

On April 1, 1927, these three stations were amalgamated into the African Broadcasting Company, which in turn grew into the South African Broadcasting Corporation, SABC. When callsigns were regularized, Johannesburg became ZTJ, Capetown ZTC, and Durban ZTD.

The first SW station in South Africa was also located at Johannesburg, and it was identified variously as 4B and JP, though the programming came from station JB. With the regularization of callsigns, this unit also became ZTJ. A new SW facility with nine transmitters of 20 kw. each was officially inaugurated on July 1, 1956 at Paradys, near Bloemfontein. This station was established to give radio coverage to areas in South Africa that were not covered by local radio stations. It was located on a lonely property of 400 acres, 12 miles south of Bloemfontein. It contained nine 20 kw. transmitters, with 18 antennas for the national service and seven for external coverage.

The External SW Service from this facility was established in 1966. The station at Paradys was closed in 1969 when a larger station was constructed near Meyerton. The Meyerton Transmitting Station is located on a property of 1,250 acres in a mountainous region some 64 km. south of Johannesburg. It was officially opened in October 1965, and it began regular broadcasting in May of the following year.

The Meyerton station is actually made up of two neighboring facilities containing a total of 16 SW transmitters—three of 500 kw., four of 250 kw., and 16 of 100 kw. The Foreign Service has used mainly the higher powered units, and the Home Service and African services have used mainly the 100 kw. units. This is the station, near Meyerton in South Africa, that has been on the air in recent time as a relay service for other international and regional broadcasting stations such as the BBC, VOA, and Trans World Radio.

Currently, for reasons of economy, Radio South Africa is not broadcasting a Foreign Service, but only services to Africa, under the name "Channel Africa." QSL cards for transmissions over the Meyerton radio station may be obtained from VOA and Trans World Radio, as well as from the RSA local address as given in the World Radio TV Handbook: SENTECH, Box X06, Honeydew, 2040, South Africa. 

FOR SALE: Grundig HiFi Model 3028 Zauberklang with LW, MW, and SW band and pitch tuning. 24" wide, 14" high, and 9" deep. Best offer. Nancie Coan. Phone 202/338/4580.

FOR SALE: Radio stuff! Books, magazines, club bulletins, other publications, station memorabilia, etc. Multi-page listing for \$1.00 or business-size envelope with two stamps. G. Dexter, 213 Forest Street, Lake Geneva, WI 53147.

Listener's Library

T. J. "Skip" Arey WB2GHA
P. O. Box 644
Waterford Works, NJ 08089
America Online TJAREY
Internet tjarey@aol.com

I know this is a few months down the road, but as I write this I am fresh from the 1996 Kulpsville get together. Anyone who missed this year's events needs to start planning now for next year's special 10th anniversary celebration. I bring this subject up because most of what I have to share with you this month comes from the tables at Kulpsville. I came away with a few items that may be of continued interest to folks. First we go to the book that I had high bid on at the A*C*E table's silent auction.

EMPIRE OF THE AIR *THE MEN WHO MADE RADIO*

by Tom Lewis
421 Pages
\$25.00
Harper Collins
New York, NY
ISBN 0-06-018215-6

Maybe you've seen the Ken Burns PBS production based on this book. The two-hour television special gave a good overview of the subject, but this book takes an even deeper look in to the roots of radio. The book covers the essential history of the development of radio from 1899 through 1954. Primarily it traces the lives of Lee de Forest, Edwin H. Armstrong and David Sarnoff. I appreciate Mr. Lewis' views on the subject. I have long held that Armstrong was the man who gave us modern radio communication in spite of strong claims by Lee de Forest. This book brings about the full story of the competition between the fathers of radio. We learn how most everybody involved spent all their time and money fighting over and defending patent rights while David Sarnoff got extremely rich. The book is not very strong on the technical aspects of those early days but we do get a great look at the people who made radio possible. The book is very readable and full of flawed personalities and intrigue worthy of any thriller. It may even be a good read for somebody in your

family who is not quite as appreciative of radio as you might be. The book contains dozens of illustrations that further enhance to text.

At the main Kulpsville silent auction that finished on Saturday evening, I came away with the high bid on a barely radio related radio book that may hold some interest to those among us who enjoy chasing spy numbers. You'll never break their code, but this book makes you feel like you might have a shot at it.

CRYPTOGRAMS AND SPYGRAMS

by Norma Gleason
112 Pages
\$3.50
Dover Publications, Inc.
New York, NY
ISBN 0-486-24036-3

While this book has little to do with the radio hobby, it does serve to show the eclectic nature of the things you are likely to find at the Kulpsville Winterfest. I've long maintained that many radio hobbyists sustain a fantasy about being secret agents. Maybe that's why so many of us get a kick out of working Morse code or trying to monitor spy numbers and clandestine broadcasts. While nothing you will find in this book will topple any world governments, you will find quite a few hours of recreational decoding. Along the way, you will acquire a few skills that will help you with the puzzles in the daily papers. Who knows? If you study really hard and eat all your vegetables, you may even crack the spy numbers code someday.

At Kulpsville, Saturday night brings the annual banquet. While the Scanner Scum make their presence known, Dr. DX holds everyone's attention by reading from raffle tickets as the assembled multitude anticipate their winnings. A couple of prizes came my way and deserve a mention in the Listeners Library column.

DRAKE R8PC INTERFACE SOFTWARE
R.L. Drake Company
230 Industrial Drive
Franklin, Ohio 45005

Consider this an UN-review. I won the software but have no R8 to try it out. That makes this portion of the column the place where I ask folks to write or E-Mail their reviews of books or software that are pertinent to the radio hobby. I'm sure somewhere in our club there is a somebody who can actually provide us with a good review of this product. Well, what are you waiting for! All of the members of NASWA are looking forward to seeing your words. Anyway, I guess I'll put this software on the shelf and hope they raffle off an R8 at next year's Kulpsville get together.

Enough levity and begging. Here is a product that has some interest to radio people.

INSIDE THE MCC
A TECHNICAL GUIDE TO THE MISSION
CONTROL CENTER AT THE JOHNSON
SPACE CENTER
by R. H Nicholson
96 Pages
\$9.95
Universal Radio Research
Reynoldsburg, Ohio
ISBN 1-882123-30-1

Ever wonder what is involved in managing a world wide radio communications network? How about maintaining communications with an orbiting spacecraft? Nicholson's book is a guided tour of the neatest radio shack in the

world, The Johnson Space Center. The Space Shuttle has been called the most complex machine ever built. The Johnson Space Center is responsible for assuring this most complicated machine completes its mission and that its crew returns safely to earth. The book includes illustrations and flow charts that help the reader to get a handle on just how enormous this task really is. If you have an interest in attempting to monitor NASA or even the Space Shuttle itself, this book provides essential information and frequencies to make this pursuit successful.

Kulpsville is also known for its "Freebie" table. This is where you can find catalogs, station stickers and other giveaways for the assembled throng. On this table I ran across...

VOA GUIDE
April & May 1996 issue
12 Pages
Voice of America
Washington, D.C. 20547

Our national shortwave service produces a fine newsletter that includes its most current schedules. This issue's feature article covered VOA's coverage of the Bosnian conflict through the program "Dateline Bosnia." Another main feature is the column "Dr. Feedback." This column covers listeners' comments, criticisms and questions. Printed in tasteful red, white and blue.

Okay so if you cannot come up with any other reasons for attending the next Kulpsville Winterfest, remember that it is a great source for books and publications. I'll be looking for you in the silent auction room. 

WANTED: Hallicrafter S39 Sky Ranger in excellent to mint condition only. Top dollar paid. Gordon W. Hullin, 3666 Cold Springs Road, Baldwinsville, NY 13027. Phone 315/622-0141

Equipment Reviews

Alan Johnson
2440 Sharon Way
Reno, NV 89509
CompuServe 76665.1756
Internet 76665.1756@compuserve.com

The Lowe HF-250 HF General Coverage Receiver

The HF-250 is the latest offering from the U.K. firm of Lowe Electronics. The release of this upgrade to the HF-225 has been hinted at since late 1992, but it did not appear until late 1995. I thought at first that the radio was just a HF-225 with a clock and timer added, but a perusal of the specifications shows that there have been some performance refinements as well. Thanks to the folks at EDCO (Electronic Distributors Company) in Vienna, VA, the U.S. importer for Lowe, I was able to use a HF-250 for several weeks.

High Style

The HF-250 is packaged in a very sleek black cabinet measuring 11 x 4 1/8 x 8 inch (WxHxD) that weighs about six pounds. The combination of compact size and attractive styling should make the HF-250 welcome in any room—not just the radio shack. The AC adapter is an external cube that is supplied with a three prong plug. The HF-250 continues the Lowe tradition of minimalism in receiver front panel controls: there are two small rotary knobs for power/volume and tone, a dimpled tuning knob and seven pushbuttons for mode, filter, memory, attenuation, tuning rate and mHz Up/Down. Since there are so few controls, the pushbuttons do double duty. The back panel has a connector for computer control, line out, DC power, speaker out and antenna connectors for coax cable (or a whip antenna) and 600 ohm wire antennas. There is also a spring terminal for muting the receiver. Unlike the HF-150, there are tilt-down front feet to raise the front panel for easier viewing. The internal speaker is top-mounted in a special baffle to enhance the sound quality. I agree with Larry Magne that the baffle makes

a dandy handle for carrying the radio. The basic radio includes a cable to connect the receiver to a computer's serial port and software for receiver control. As part of the computer interface cable is a connector to allow for remote control of a tape recorder via the radio's timers. The available options for the HF-250 are a wireless remote control keypad, a synchronous AM/narrow band FM detector board and a pre-amplifier for a whip antenna. The latter option, along with a 12 volt battery pack, allows for portable operation.

Features

One of the several improvements of the HF-250 relative to the HF-225 in the area of operating convenience is the expansion of the number of memory channels from 30 to 255. The memory channels store both frequency and mode information. Once the memory mode is activated, the memory channels can be selected by rotating the main tuning knob or by entering the memory channel number on the optional keypad. There are two ways to review memory channels: "preview" and "channel". In preview mode, the display indicates the memory channel number, followed in one second by the frequency stored in that memory position. To tune the receiver to the desired frequency, the operator then presses the "Recall" button. In channel mode, the receiver is immediately tuned to the frequency stored in the selected memory channel. There is no provision for automatically scanning the memory channels.

Another convenience feature added to the HF-250 is a clock and timer. The clock is 24

hour format (and includes seconds) and can be set for only one time zone. The clock is displayed continuously when the unit is off and the clock can be displayed when the unit is in use by pressing the "Fast" and "Mode" buttons simultaneously. The time is then displayed until the same buttons are pressed again. There are two programmable on/off timers included with the HF-250 and relay contacts for controlling an external tape recorder are available on the RS-232 computer control connector. A twelve inch cable with 1/8" mini-plug is included with the computer control cable. Setting the timers involves a rather convoluted series of key presses and rotation of the main tuning knob. When setting a timer, the desired frequency must be stored in a memory channel between 01 and 99, and this memory channel is specified as part of the timer set-up process. If only one timer event is desired, the second timer must have its on and off times set to 00:00.

The HF-250 includes a RS-232 computer interface and control software as standard. The baud rate is 1200 and a three feet long cable with DB-9 connectors is included, along with a DOS control program. The program is rather rudimentary, but allows for control of mode, frequency and memory channel via either the keyboard or with a mouse. When the frequency mode is chosen the radio can be tuned either by entering a frequency with the numeric keys or can be tuned in steps of either 0.2 or 0.5 kHz. There is also a programmable database—when a highlighted entry is selected the radio is immediately tuned to the displayed frequency and mode. Although the control program is rather basic, it does permit immediate comparison between different modes without having to use the carousel scheme of the front panel controls.

Performance Enhancements

The most anticipated feature of the HF-250 is the inclusion of selectable sideband synchronous detection with the optional DU-250 detector board. Selectable sideband sync detection adds an additional measure of interference-fighting capability to the potentially lower distortion and fading

afforded by a double sideband sync detector. The sync detector in the HF-250 works quite well, although the lock range is narrow (+/- 200 Hz) and careful tuning is required. The isolation between sidebands is good, although I was unable to actually measure it. The sync detector is disabled automatically during tuning, if the main tuning knob is turned at a fast enough rate. The radio then switches to standard AM mode and returns to sync mode when the radio senses that the tuning knob is no longer being moved. The only disadvantage to the sync detector is the way that modes are changed: first the "Mode" key is pressed—this causes the mode indicator light to blink; second, either of the "mHz Up/Down" keys are pressed to change the mode and finally, the "Mode" key is pressed again to stop the mode indicator light's blinking. It works, but it's not as easy as pressing a single button as on the Drake R-8A and it makes it difficult to compare regular AM mode to sync mode, although upper or lower sync mode can be compared by a single keypress. There is a sync lock detector on the front panel—I found that the light seemed to blink off even when the radio had not audibly lost sync. The HF-250's synchronous detector seems to hold lock during signal fades (at least audibly) better than that of the HF-150.

Performance

The HF-250 continues the Lowe standard of outstanding audio output quality. Even with just the built-in speaker, this radio sounds good. The radio has a unique tone control design. Rather than just a treble roll-off control, the HF-250's tone control shifts between a high-pass filter when rotated clockwise from the 12 o'clock position and a low-pass filter when rotated counter-clockwise. A friend gave me a 10-band graphic equalizer to repair during the HF-250 evaluation period, so I tried connecting the line out of the HF-250 through the equalizer, then into an old stereo amp I had picked up a yard sale. The speakers used were Radio Shack Minimus 7's. This produced very pleasant sound and I would recommend the set-up for others to experiment with, no matter what brand of radio.

The HF-250 has a heavy weighted tuning knob, which has enough mass to easily spin for rapid frequency shifts. There are two tuning speeds, based on how rapidly the knob is turned. In AM mode, the tuning rates are 11 kHz/revolution and 44 kHz/revolution. In SSB/CW and AM sync, the rates are 1.8 kHz/revolution for slow and 7.2 kHz/revolution, except in AM Sync mode, where the radio switches to the AM mode for fast tuning. When the "Fast" front panel button is held while the tuning knob is rotated, the radio tunes in one kHz steps versus the normal 50 Hz steps in AM mode. I had some difficulty with the variable speed tuning—it seemed that the radio wouldn't go into fast tuning mode when I wanted it to and other times it would when I didn't want it to—resulting in frequency jumps. This was probably a result of operator inexperience rather than a fault with the radio—in fact the owner's manual mentions that such jumps are the result of not tuning smoothly. Two things that I feel are due to the radio's design are a lack of "drag" on the tuning knob, meaning that tuning slowly is sometimes difficult to do accurately and the knob seems slightly off-balance—sometimes the tuning knob would rotate slightly and the tuning would shift several hundred kilohertz if the knob ended up in the "wrong" position. A little extra friction, such as a felt washer behind the tuning knob would help both of these situations.

I thought the selectivity provided by the HF-250 was excellent. The nominal bandwidths provided are 2.2, 4.0, 7.0 and 10.0 kHz. I measured the -6 dB bandwidths at 2.5, 5.6, 6.4 and 9.9 kHz respectively. Even though the IF filters used are relatively inexpensive ceramic units, they have excellent skirt selectivity due to the way they are cascaded in series for the narrower bandwidths. There is also a 200 Hz audio filter (centered on 800 Hz) that is switched in for CW mode. These filters when coupled with selectable sideband synchronous detection are effective interference fighters, although there were times when I missed having a notch filter. I sometimes also missed being able to switch between fast and slow AGC times—the HF-

250 automatically switches between a slow AGC attack/decay for AM mode and a fast attack in SSB/CW modes. There is a noise blanker in line at all times for combatting pulse type noise.

The Comparison

For this review, I compared the HF-250 side-by-side with a stock JRC NRD-535 and a Drake R-8, all connected through an antenna coupler and using the radios' built in speakers, except for the NRD-535 which was connected to a Grove SP-200. I could detect no significant differences in sensitivity between the three radios. Where I could detect a difference was in the intelligibility of the recovered audio—the Lowe won hands down in nearly every case. There were receiving situations in which the passband shift and notch filter on the other radios resulted in less interference, but it was rare that the signal could not be "read" better with the Lowe. The Lowe also offered more pleasant reception of the major broadcasters for armchair listening.

For those in the market for a premium receiver, the Lowe HF-250 is definitely worthy of consideration. The HF-250 represents a significant refinement of the HF-225 both in terms of features, such as the expanded number of memory channels and timers, and in terms of performance, with the optional synchronous detector. Sometimes the operation of the HF-250 can be a bit frustrating, such as the carousel arrangement of the mode selector, but this is alleviated with the use of computer control and/or the optional keypad. For hard-core DX'ers/technophiles, the HF-225 Europa may be a more attractive choice, due to its tighter filtering and front-end modifications for enhanced dynamic range. The only real "fly in the ointment" is the AOR-7030, which is a later design from John Thorpe and will be in about the same price range as the Lowe HF-250. The HF-250 is available from the major shortwave dealers and is list priced in the \$1300 range for the stock unit. The keypad and sync detector add about \$150. 

Listener's Notebook

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BOY O BOY. Jammin' this together in a big time crunch. Please excuse any egregious errors and other weirdness caused by my migraine! Oh, and thanks again to all our more rational, organized contributors. How I envy you.

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ALBANIA Here we go again. From April 11th, *TWR* made more frequency changes:

1340-1455 Russian 9490 (ex 9485)
 1444-1459 Kurdish 11665 (ex 11695)
 1702-1717 Lithuanian 9660 might be changed to 9620 by now

(Pashkevich-Russia/Bueschel-Germany/BCDX)

ANGOLA Possible Angolan first noted April 14 on 5035.1 from 0432 with hymn-like chorus; again on April 18 at 0515+ with a long talk in Portuguese. This was not Radio Bangui which has drifted down to 5033.4. Possibly Benguela shifted down from 5043v? (Bob Hill/ODXA World Radio Report/Clark-Canada)

ANTARCTICA The Argentine outlet, *Radio Nacional Archangel San Gabriel* may soon be activated again on 15476 kHz. (Gabriel Ivan Barrera/Numero Uno/ODXA World Radio Report/Clark-Canada)

AUSTRALIA The Z96 sked for *Radio Australia* does not indicate the language for the period 1230-1300, via Darwin 7150, and Shepparton 9770. It is English, formerly Thai. (31-Mar/E-DXP-ARDXC/Padula-Australia)

AUSTRIA *Radio Austria International*; suffix "C" from Sackville, Canada:

0000-0030 German 13730 9870 9655
 0030-0100 French 9655
 0030-0100 Spanish 13730 9870
 0100-0130 German 13730 9870 9655
 0130-0200 English 9655
 0130-0200 Spanish 13730 9870
 0200-0230 German 13730 9870 9655
 0230-0300 English 13730 9870 9655
 0300-0330 German 9870
 0330-0400 Spanish 9870
 0400-0430 German 13730 6155
 0430-0500 Esperanto 13730 6155 Su

0430-0500 German 13730 6155
 0500-0530 German 17870 15410 13730 6155
 0500-0530 German 6015-C
 0505-0530 Arabic 17870 15410 13730 6155 Su
 0530-0600 English 6015-c
 0600-0630 German 17870 15410 13730 6155
 6015-c
 0630-0700 French 17870 15410 13730 6155
 0700-0730 German 17870 15410 13730 6155
 0730-0800 English 17870 15410 13730 6155
 0800-0930 German 17870 15450 (fm 0900)
 13730 6155
 0930-1000 English 17870 15450 13730 6155
 0930-1000 German 17870 15450 13730 6155 Su
 1000-1030 German 17870 15450 13730 6155
 1030-1100 English 17870 15450
 1030-1100 French 13730 6155
 1100-1130 German 15450 13730 6155
 1130-1200 English 13730
 1130-1200 Esperanto 15450 6155 Su
 1130-1200 German 15450 6155
 1200-1230 German 13730 6155
 1230-1300 Spanish 13730 6155
 1300-1330 German 13730 6155
 1330-1400 English 13730 6155
 1400-1430 German 13730 6155
 1430-1500 Esperanto 13730 6155 Su
 1430-1500 German 13730 6155
 1500-1530 German 13730 11780 9665 6155
 1530-1600 English 11780
 1530-1600 German 13730 9665 6155
 1600-1630 German 13730 11780 9665 6155
 1630-1700 French 13730 11780 9665 6155
 1700-1730 German 13730 11780 9665 6155
 1730-1800 English 13730 11780 9665 6155
 1800-1830 German 9665 6155 5945
 1830-1900 Arabic 9665 6155 5945 Su
 1830-1900 German 9665 6155 5945
 1900-1930 German 13730 9665 6155 5945
 1930-2000 English 13730 9665
 1930-2000 German 6155 5945
 2000-2030 German 13730 9880 6155 5945
 2030-2100 Spanish 13730 9880 6155 5945

2100-2130 German 13730 9880 6155 5945
 2130-2200 French 13730 9880 6155 5945
 2200-2230 German 9870 6155 5945
 2230-2300 English 6155 5945
 2230-2300 Spanish 9870
 2300-2330 German 9870
 2330-2400 Spanish 9870
 (BBCM)

BHUTAN *Bhutan Broadcasting Service* reverted to summer time as from Mar 31st and so s/off is an hour later at 1500, the final 45 mins being in English. As well, it seems to have settled on 5023.5 (ex-5030), presumably to avoid interference from the RTM-Sarawak station on 5029.9. (Goonetilleke/RN Media Network/ODXA World Radio Report/Clark-Canada)

BRAZIL Survey of Brazilian shortwavers by Finn Krone-Denmark, 23-29 Mar:

4755 *R. Educ Rural*, 0125-0245, "Je t'aime mon non plus" songs non-stop to 0200, ID.
 4785 *R. Caiari*, 0030-0155, "Xanadu" and Elton John, full IDs and fgy anmts.
 4795 Unid. Brazilian, 0120-0145 on Mar 25, PT talk.
 4805 *R. Dif do Manaus*, 0000-0120, regular, fine PT ID, ad for cerveza, gone at recheck 0154.
 4815 *R. Dif Londrina*, 0120-0302* on Mar 25, talk in PT, ID at 0255, close 0302 after short instr mx.
 4845.3 *R. Cultura do Manaus* 0115-0155, regular, Mar 26 with PT talk, fine ID 0118, song.
 4875 *R. Dif Roraima*, 0110-0155, regular, PT talk, songs, then relig prgm.
 4885 *R. Clube do Para*, 0100, regular, fine IDs.
 4885 Unid. weak Brazilian at 0113 on Mar 25 under Para. Acreana?
 4915 *R. Anhanguera*, 0040-0145 regular, PT man about "internet do Brasil."
 4915 Unid. Brazilian under Anhanguera, 0100-0145, songs, Mar 25 & 25, weak
 4935 Unid. Brazilian at 0050-0215 Mar 25, non-stop mx 0050-0103, xmtr breakdown; back at 0215 recheck.
 4945 Unid. Brazilian at 0220 on Mar 25, PT talk, weak under Bolivia
 4984.9 *R. Brasil Central*, 0050-0120, PT, songs, IDs, strong signal, regular, good reception.
 5015 Unid. Brazilian weak at 0045-0100 on Mar 25, mixing with Cultura
 5015 *R. Cultura*, Cuaiba 0045-0115 on Mar 25, PT talk, ID, free of Asqabat till 0100.
 5035 Unid. under Aparecida, weak at 0135 with songs, gone at recheck 0205
 5035.1 *R. Aparecida*, 0135-0215, regular, P talk, 0205 relig prgm.
 5045 *R. Cultura do Para*, 0045-0210, daily, songs, many clear IDs.

5055 *R. Dif Caceres*, 0130-0220 Mar 25, IDs, songs.
 6000 *R. Guaiba*, Mar 25 at 0240, PT news.
 6040.5 *R. Clube Paranaense*, 0229-0315 on Mar 25, songs, 0232 ads, plain ID as *R. Clube Paranaense*.
 6090 *R. Bandeirantes*, 0220-0610, regular, talk, ID at 0220 after ad.
 6105.1 *R. Cultura*, Foz do Iguacu, Mar 25 at 0310-0404 slow songs, IDs between songs.
 6135.1 *R. Aparecida*, 0225 on Mar 25, //5035.1.
 6150 Unid. Brazilian, 0225 on Mar 25, man shouting under QRM, weak
 9675 *R. Cancao Nova*, 0600-0800 daily, fine ID on the hour, LA songs, also evenings UTC.
 11705.1 *R. Nova Visao*, 2034 daily, often quiet music.
 11765 *R. Universo*, 2040 on Mar 25, talk.
 11780 *R. Nacional da Amazonia*, 2030 regular, talk.
 11785 *R. Guaiba*, 2030, regular, talk.
 11805.2 *R. Globo*, 2040, daily, PT talk.
 11814.8 *R. Brasil Central*, 0745, often, PT talk.
 11855 *R. Aparecida*, 2030, daily, PT songs, relig prgmng.
 11925 *R. Bandeirantes*, 2040, daily, PT talk.
 (Krone/NU)

Radio Nova Visao on 12 Apr at 2130 in German. Program started at 2130, before that time they had Portugese. Lasted till 2158, then Portuguese ID and s/off. Frequency 11705.05 kHz, SINPO 25343. First thought was, that this program was produced by Radio Transmundial in Brazil. They used to have German programs over TWR Bonaire years ago. However, this program was most likely recorded in Germany. They mentioned the slogan of "Clausthaler", Germany's leading non-alcoholic beer: "Nicht immer, aber immer oefter!" Not very probable, that this slogan is known in Sao Paulo... Interesting, that they didn't give any contact address. (Elbe-Germany/Bueschel-Germany/BCDX)

BULGARIA On 1 June, *Radio Bulgaria* plans special broadcasts to mark its Golden Jubilee. There will be 30-minute transmissions to different parts of the world, starting at 0830, and repeated at 0900, 2200 and 2230. Programming will include messages in the 12 languages used by Radio Bulgaria. Special numbered QSL cards will be available: address Radio Bulgaria, PO Box 900, BG-1000 Sofia-Z., Bulgaria. Sked:

0830-0930 6050 9700 12000 13635 13770 15245 15630
 2200-2300 9700 11660
 (31-Mar/E-DXP-ARDXC/Padula-Australia)

Radio Bulgaria regular summer sked:

0000-0300 Bulgarian 11660-(to 0100) 9700 9415-(to 0100) 7480
 0100-0200 Spanish 11660 9740 9415

| | | | | | |
|--|-------------|-------------------------------------|-----------|-------------|--|
| 0215-0300 | Turkish | 5980 5890 Mo-Fr | 0030-0100 | French-RCI | 9755 5960 Tu-Sa |
| 0300-0400 | Bulgarian | 7115 6035 | 0030-0100 | Spanish | 13670 11940 9535 Tu-Sa |
| 0300-0400 | French | 11720 9700 | 0100-0130 | English-RCI | 13670 11715 9755 9535 6120 Tu-Sa |
| 0400-0430 | Greek | 7115 5890 Su-Fr | 0130-0200 | English-RCI | 9755 6120 |
| 0400-0500 | English | 11720 9700 | 0130-0200 | Spanish | 13670 11715 9535 Tu-Sa |
| 0400-0500 | Greek | 7115 5890 Sa | 0200-0230 | English-PK | 11715 9535 6120 Tu-Sa |
| 0415-0500 | Turkish | 7345 6000 5945 Mo-Fr | 0200-0300 | English-CBC | 11715 9755 9535 6120 Su/ Mo |
| 0430-0500 | Albanian | 7115 5890 Su-Fr | 0200-0300 | English-CBC | 13670 9755 Tu-Sa |
| 0500-0545 | German | 11720 9700 | 0230-0300 | French-PK | 11715 9535 6120 Tu-Sa |
| 0500-0600 | Serbo-Croat | 7115 5890 Mo-Fr | 0300-0330 | French-RCI | 11970u 11835m |
| 0500-0630 | Turkish | 7115 6000 Sa/Su | 0330-0400 | Arabic | 11970w 11835m 9715s |
| 0600-0700 | French | 11635 9700 | 0400-0430 | English-RCI | 15275m 11905u 11835w |
| 0630-0730 | Albanian | 5890 Sa | 0430-0500 | Arabic | 15275m 15215w 11835w |
| 0630-0900 | Serbo-Croat | 9480 5890 Su | 0500-0530 | English-PK | 17840u 15430u 7295u 6050u Mo-Fr |
| 0730-0900 | Serbo-Croat | 9480 5890 Sa | 0530-0600 | French-PK | 17840u 15340u 7295u 6050u Mo-Fr |
| 0800-0900 | Greek | 7135 6000 Sa | 1200-1230 | English-RCI | 15195y 9660y |
| 1000-1100 | German | 15185 11660 | 1200-1300 | English-CBC | 13650 11855 9640 |
| 1130-1230 | English | 13790 | 1200-1300 | French-CBC | 15305 9650 |
| 1200-1500 | Bulgarian | 6195 5890 | 1230-1300 | French-RCI | 15195y 9660y |
| 1230-1330 | English | 15620 | 1300-1325 | Chinese | 11955y 9660y 6150k |
| 1400-1500 | Russian | 11855 9775 7425 | 1300-1400 | English-CBC | 13650 11855 9640 Mo-Fr |
| 1500-1545 | Serbo-Croat | 5890 5860 | 1300-1600 | English-CBC | 13650 11855 Su |
| 1500-1600 | Bulgarian | 15635 11630 | 1300-1600 | French-CBC | 15305 Su |
| 1500-1800 | Bulgarian | 9775 7425 | 1330-1400 | English-RCI | 21455s 17820u (not Su) 15325s 11935u 11795x 9535x |
| 1545-1630 | Albanian | 5890 5860 | 1400-1500 | French-CBC | 17895-(not Su) 17820-(not Su) 15325s 15305-(not Su) 11935u |
| 1600-1645 | Arabic | 11660 9430 | 1430-1500 | Chinese | 9680y 7285k 6150y |
| 1615-1700 | German | 11720 9700 | 1500-1600 | Russian | 17820-(not Su) 15325u 11935u 7285k 6150y |
| 1630-1715 | Greek | 5890 5860 | 1600-1645 | Ukrainian | 17820 15325 11935u 9555u Mo-Fr |
| 1700-1800 | French | 11720 9700 | 1600-1700 | Ukrainian | 17820 15325 11935u 9555u Sa-Su |
| 1700-2000 | Bulgarian | 9850 | 1630-1700 | English-RCI | 9550x 7150x |
| 1715-1800 | Serbo-Croat | 7120 5890 | 1645-1700 | English-RCI | 17820 15325 11935u 9555u Mo-Fr |
| 1715-1800 | Turkish | 7375 7355 5860 | 1700-1800 | Russian | 17820 15325 11735u 9555u |
| 1800-1900 | Bulgarian | 7375 5890 5860 | 1800-1845 | Ukrainian | 17820 15325 13670 11905u 7235u Mo-Fr |
| 1800-1900 | German | 11720 9700 | 1800-1900 | Ukrainian | 17820 15325 13670 11905u 7235u Sa-Su |
| 1800-1900 | Russian | 9775 7425 | 1845-1900 | French-RCI | 17820 15325 13670 11905u 7235u Mo-Fr |
| 1900-1945 | Albanian | 5890 5860 | 1900-2000 | French-RCI | 17870 17820 15325 15150 13670 13650 11700 7235u 5995u |
| 1900-2000 | English | 11720 9700 | 2000-2100 | English-RCI | 17870 17820 15325 15150 13670 13650 11690 7235u 5995u |
| 1915-2015 | Spanish | 11660 9500 | 2100-2130 | English-CBC | 17820 15325 15150 13670 13650 11690 7235u 5995u |
| 1945-2030 | Greek | 5890 5860 | 2130-2140 | French-RCI | 17820 15305 13740 13670 13650 11690 9755 7235u 5995u Mo-Fr |
| 2000-2045 | Italian | 9850 7380 | | | |
| 2000-2100 | French | 11720 9700 | | | |
| 2015-2100 | Arabic | 13625 11660 | | | |
| 2030-2115 | Serbo-Croat | 11605 9680 5890 5860 | | | |
| 2100-2200 | English | 11720 9700 | | | |
| 2100-2200 | Spanish | 13625 11660 | | | |
| 2115-2200 | Italian | 5890 | | | |
| 2230-2315 | Italian | 6095 | | | |
| 2300-2400 | English | 9700 7480 | | | |
| 2300-2400 | Spanish | 11660 9415 | | | |
| (BBCM) | | | | | |
| CANADA Sked for the still-with-us <i>Radio Canada International</i> . The relays of CBC domestic broadcasts in English originate from Toronto whilst RCI's own programs and the SRC domestic broadcasts in French come from Montreal. PK broadcasts are for Canadian peacekeeping forces. | | | | | |
| 0000-0030 | French-RCI | 13670 11940 9755 9535 5960 Tu-Sa | | | |
| 0000-0100 | French-RCI | 9755 5960 Su/Mo | | | |
| 0000-0100 | Spanish | 13670 11940 9535 Su/Mo | | | |

2130-2200 French-RCI 17820 15305 13740 13670
 13650 11690 9755 7235u
 5995u Sa-Su

2140-2200 Creole 15305 13740 9755 Mo-Fr

2140-2200 French-RCI 17820 13670 13650 11690
 7235u 5995u Mo-Fr

2200-2230 English- 15305 13740 13670
 CBC/RCI 11705y 9755 5960

2230-2300 English-CBC 13670 9755 5960

2230-2300 French-RCI 15305 13740 11705y

2300-2330 English-CBC 15305 13670 11940 9755
 5960

2330-2400 English-CBC 13670 9755 5960 Mo-Fr

2330-2400 Spanish 15305 11940 Mo-Fr

c=Cape Greco (Cyprus); k=Kimjae (South Korea);
 m=Moosbrunn (Austria); s=Sines (Portugal);
 u=Skelton (UK); w=Wertachtal (Germany); x=Xian
 (China); y=Yamata (Japan). Unmarked frequencies
 originate from Sackville. (BBCM)

CHILE Current status of the shortwave broadcast-
 ing scene in Chile:

5825 *R. Triunfal Evangelica*, Talagante, 50
 watts, 0000-0300 daily; waiting for a
 transmitter crystal to adjust the
 frequency slightly

6029.62 *R. Santa Maria*, Coyhaique, 10 kW, Mon-
 Sat 0950-0400, Sun 1100-0400

6080 *R. Patagonia Chilena*, Coyhaique, 1 kW,
 Mon-Fri (local days) at 1000-0400, Sat
 1000-0600, Sun 1100-0400

6089.98 *R. Esperanza*, Temuco, 10 kW, active 24
 hrs daily, Spanish except English at
 0800-0830 daily and German at 1230-
 1300 on Sundays

(Gabriel Ivan Barrera/Numero UnoODXA World Radio
 Report/Clark-Canada)

CHINA-TAIWAN The *Central Broadcasting Sys-
 tem* (CBS) is operated by the Ministry of Defence
 and broadcasts to mainland China. The four CBS net-
 works shown below are targeted at different interest
 groups. All programs are in Chinese unless otherwise
 noted.

Station identification: *Central Broadcasting Sta-
 tion, voice of free China, to mainland China* (Standard
 Chinese: *Chung-yang Kuan-po Tien-tai, Tsu-yu Chung-
 Kuo Chih Sheng, Tui Chung-Kuo Ta-hu Kwang-po*).

CBS Network 1

0000-0100 15320 7250 1098 900 747

0100-0355 15320 7250

0355-0955 11775 7105 6180

0955-1900 15320 7250 3335

2055-2155 15320 7250 3335

2155-2400 15320 7250

CBS Network 2

0955-1900 11775 9630 7105 6180 6087

CBS Network 3

0955-2200 Cantonese 6040

0955-2200 Hakka 9690

CBS Network 4

1000-1140 Mongolian 11905

1140-1310 Tibetan 11905

1310-1330 Chinese 11905

1330-1500 Uighur 11905

(BBCM)

CIS Latest *VO Russia* sked, at least as claimed:

0000-0100 English 9665 9620 7250 7240 7125
 7070

0000-0100 Spanish 11860 11840 9890 9865
 9820 9775 9600 9480 9470
 9450 7380* 7330* 7320*
 7300 7260

0100-0200 English 15580 15180 13665 13645-
 (fm 0130) 12050 12010
 9620 7240 7070

0100-0200 Spanish 11860 11840 9890 9865
 9820 9775 9600 9480 9470
 9450 7380* 7330* 7320*
 7300 7260 7230

0200-0300 English 15580 15180 13665 13645
 12050 12010 9620 7240
 7070

0200-0300 Spanish 11860 11840 9890 9865
 9820 9775 9600 9480 9470
 9450 7380* 7330* 7320*
 7300 7260 7230

0300-0400 English 15580 15180 13665 13645
 12050 12010

0400-0500 English 15580 15180 13665 13645
 12050 12010 9620 7230

0500-0600 English 17665 15580 15470 13665
 13645 12050 12040-(fm
 05300 12010 1323

0600-0700 English 17665 17570 17515 15580
 15560 15490 15470 13665
 13645 12050 12040 12010

0700-0800 English 17665 17570 15560 15470

0800-0900 English 15580 15560 15470 12025
 11800 9835-(fm 0830)

0900-1000 English 15580 12025 11800 9835

0900-1000 German 15455 12010 11745

1000-1100 Chinese 15580 15535 15470 15215
 11970 9480 7245

1000-1100 English 17870 17775 17610 17560
 15520 15490 12025 11800
 11655 9835 7150

1000-1100 Korean 15375 13775 11855 9875
 7315

1100-1200 Chinese 15580 15470 13775 11960
 11500 7245 6145-(fm
 1130)

1100-1200 English 17870 17775 17755 17560
 15560 15520 15460 11655
 7150 4740

1130-1230 Mongolian 11970 9480 7295

| | | | | | |
|-----------|-------------|---|-----------|-------------|---|
| 1200-1300 | Chinese | 13775 11960 11870 9895 9480 6145 | 1600-1700 | Serbo-Croat | 12000 11690 9775 9740 9630 7330 |
| 1200-1300 | English | 17870 17775 17755 15520 15510 15435 15345-(fm 1230) 15230 15170 15110 11785 11655 4975 4740 | 1700-1800 | Arabic | 17750 15340 12035 12030 11935 11835 11695 9705 7130 5935 5925 |
| 1200-1300 | Japanese | 9800 7150 5960 | 1700-1800 | Bulgarian | 12060 11820 11690 9765 9630 7380 7330 |
| 1200-1300 | Korean | 11695 7245 | 1700-1800 | English | 17875 15400 12065 11960 11775 11630 9975 9955 |
| 1200-1300 | Vietnamese | 15560 15470 15460 9845 | | | 9880 9830 9675 9480 9365 7440 |
| 1300-1400 | Chinese | 13775 11970 11960 11870 9895 9480 7295 7245 6145 | 1700-1730 | Finnish | 11675 7350 7240 |
| 1300-1400 | Dari/Pashto | 11880 9595 4975 4940 4740 | 1700-1800 | French | 17855 15455 15350 12070 11960 11945 11810 9710 7325 |
| 1300-1400 | English | 17755 15560 15460 15340 | 1700-1800 | German | 12010 11980 9720 9470 7310 7280 |
| 1300-1400 | Hindi | 15520 15510 15435 15230 15110 11845 11785 11710 11655 | 1700-1800 | Italian | 12000 11920 9865 9775 9740 9490 |
| 1300-1400 | Japanese | 11695 9800 7150 5960 | 1700-1800 | Slovak | 9810 7370 7230 |
| 1400-1445 | Bengali | 15435 11845 11710 | 1730-1800 | Swedish | 11675 7350 7240 Su/Mo/ We/Fr |
| 1400-1500 | Chinese | 13775 11970 11960 11870 11695 9895 9480 7295 7245 6145 | 1730-1800 | Norwegian | 11675 7350 7240 Tu/Th/ Sa |
| 1400-1500 | English | 17525 15560 15540 15350 15340 15320 11985 11945 11835 9705 9595 7225 4975 4940 4740 | 1800-2000 | Arabic | 17750 15340 12065 12030 11935 11835 11695 9830 9705 7325 7305 7130 5935 5925 |
| 1400-1500 | Turkish | 12035 11775 9830 | 1800-1900 | Czech | 9810 7380 7230 |
| 1400-1500 | Urdu | 15520 15510 15230 15110 11880 11785 11655 | 1800-1900 | English | 15400 11960 11945 11775 11765 11675 11630 9975 9955 9880 9830 9675 9480 9365 7350-(fm 1830) 7290 7240 |
| 1445-1500 | Nepalese | 15435 11845 11710 | 1800-1900 | French | 17875 17855 15455 12070 11810 9890 9820 9710 7440 |
| 1500-1600 | Albanian | 12060 12000 11690 9865 9765 9740 9630 | 1800-1900 | German | 11980 9720 9470 7310 |
| 1500-1600 | English | 17750 17525 15560 15540 15400 15350 15320 12035 12025 11945 11835 11775 9975 9955 9880 9830 9675 9595 9365-(fm 1530) 7305 4975 4940 4740 | 1800-1900 | Polish | 12010 7370 7280 |
| 1500-1600 | French | 17855 15455 15340 9775 9710 | 1800-1900 | Serbo-Croat | 12060 12000 11920 11820 11690 9865 9765 9740 9630 9490 |
| 1500-1600 | German | 12010 11980 9720 7280 | 1900-2000 | English | 17875-lsb 15400 11945 11765 11675 11630 9880 9675-(to 1930) 9480 7440 7350 7290 7240 |
| 1500-1600 | Hindi | 15520 15110 11845 11785 11655 | 1900-2000 | French | 13815 12070 12000 11960 11810 9890 9820 9740 9720 9710 9580 7310 |
| 1500-1600 | Persian | 11985 9705 7225 5925 | 1900-2000 | Greek | 12060 11820 11690 9865 9765 9630 7380 7370 |
| 1600-1700 | Arabic | 17750 15340 12065 12035 12030 11835 11695 9705 7305 7225 5935 5925 | 1900-2000 | Portuguese | 11960 11775 9975 9955 9810 9470 7390 |
| 1600-1700 | English | 17875 17525 15400 15350 12025 11945 11775 11675 11630 9975 9955 9880 9830 9675 9480 9365 7440 7350 7325 7305-(fm 1630) 7290 7240 | 2000-2100 | English | 11675 11630-(to 2030) 9880 9665-(fm 2030) 9480 7350 7070 |
| 1600-1700 | French | 17855 15455 11960 11960 11810 9890 9710 | 2000-2100 | French | 17875-lsb 15340 13815 12070 12000 11810 9820 9740 9720 9710 9580 7310 |
| 1600-1700 | German | 11980 9720 9470 | 2000-2100 | Spanish | 11960 11860 9490 9470 7390 7330* |
| 1600-1700 | Hungarian | 11920 9490 9065 9010 7230 | | | |
| 1600-1700 | Polish | 12010 7370 7280 | | | |
| 1600-1700 | Romanian | 12060 11820 9765 7380 | | | |

| | | | | |
|---|------------|---|-----------|---|
| 2100-2200 | English | 11750 11630 9880 9710 9665 9580 9480 7350 7250 7240 7070 | 1000-1100 | 17860 17840 17680 15560 15550 15475 15465 15435 15430 15140 13680 12065 12035 12015 12005 |
| 2100-2200 | Portuguese | 15340 13815 12040 12000 11860 9820 9490 9470 7390 7330* | | 11860 11840 11820 11730 11675 9735 9685 9565 9540 7330 7325 7315 7300 7160 7125 6080 6030 |
| 2200-2300 | English | 11750 9665 7250 7240 7125 7070 | 1100-1200 | 17840 17680 15550 15475 15465 15435 15430 15140 13680 12065 12035 12015 12005 11915 11860 11840 11820 11765 11730 11675 9735 9685 9565 9540 7330 7325 7315 7300 7160 7125 6080 6030 |
| 2300-2400 | English | 11750 9665 7240 7125 7070 | | |
| 2300-2400 | Portuguese | 11860 9890 9865 9820 9775 9480 9470 9450 7380* 7330* 7320* 7300 | 1200-1300 | 17860 15550 15475 15465 15430 15140 13680 12065 12035 12015 12005 11860 11840 11820 11765 11730 11675 9735 9685 9565 9540 7330 7325 7315 7300 7160 7125 6080 6030 |
| * =from 05-May (BBCM) | | | | |
| Golos Rossii (VO Russia in Russian): | | | | |
| 0100-0200 | | 17840 15560 15545 15455 15430 13605 12065 12060 12015 12000 11900 11850 11840 11820 11765 11765 11730 11725 11685 11660 11600 9880 9830 9795 9785 9630 9615 9540 7430 7345 7330 7315 7310 7295 7245 7125 6030 | 1300-1400 | 17860 15550 15475 15430 15140 15130 15110 13680 12080 12065 12055 12045 12035 12025 12020 12015 12005 11975 11890 11860 11840 11820 11765 11730 11675 9735 9685 9565 9540 7330 7325 7315 7300 7160 7125 6080 6030 |
| 0200-0300 | | 17840 15560 15545 15455 15430 13605 12065 12060 12015 12005 12000 11900 11850 11840 11820 11765 11765 11730 11725 11685 11660 11600 9880 9830 9795 9785 9630 9615 9540 7430 7345 7330 7315 7310 7295 7245 7125 6030 | 1400-1500 | 15560 15550 15465 15455 15430 15130 15110 13605 12065 12060 12055 12045 12040 12035 12030 12025 12020 12015 12005 12000 11975 11930 11900 11890 11860 11840 11820 11765 11730 11660 9795 9685 9565 9540 7345 7330 7325 7315 7300 7160 6080 |
| 0300-0400 | | 17840 15620 15560 15460 15455 15430 15110 13605 12065 12060 12005 12000 11900 11850 11840 11765 11725 11660 9880 9830 9795 9785 9630 9615 7430 7345 7315 7310 7295 7245 7125 6030 | 1500-1600 | 17680 15560 15465 15460 15455 15430 15130 13605 12065 12060 12040 12030 12025 12020 12015 12005 12000 11975 11930 11900 11860 11840 11820 11805 11800 11765 11725 11685 11660 9795 9610 9540 9450 7345 |
| 0400-0500 | | 15620 15460 15455 15430 15110 13605 12060 12055 12025 12005 12000 11850 11840 11805 11765 11725 11690 11685 11660 9880 9830 9795 9785 9630 9630 9615 9615 9610 9450 7430 7400 7345 7335 7315 7310 7295 7245 7125 6030 | 1600-1700 | 17680 15560-(to 1630) 15550 15465 15455 15430 15130 15110 13605 12065 12060 12055 12045 12040 12030 12025 12020 12015 12005 12005 12000 11975 11930 11900 11890 11860 11850-(fm 1630) 11840 11820 11805 11800 11725 11685 11660 9795 9610 9540 9450 7345 |
| 0500-0600 | | 15620 15460 15455 15110 13680 13605 12070 12060 12025 12000 11890 11850 11805 11765 11725 11690 11685 11660 9880 9830 9795 9785 9630 9615 9610 9450 7430 7400 7345 7335 7315 7310 7295 7245 6030 | 1700-1800 | 17680 15560 15550 15465 15460 15455 15430 15130 15110 13605 12065 12060 12055 12045 12040 12030 12025 12020 12005 12000 11975 11930 11900 11890 11850 11840 11805 11800 11725 11660 9795 9615 9610 9540 9450 7345 7315 |
| 0600-0700 | | 15460 15455 15110 13680 13680 13605 12070 12060 12025 12000 11890 11850 11805 11765 11725 11690 11685 11660 9880 9830 9795 9785 9630 9615 9615 9610 9450 9450 7430 7400 7345 7335 7315 7310 7295 7245 6030 | 1800-1900 | 17680 15560 15550 15465 15460 15130 15110 12065 12055 12045 12040 12035 12030 12025 12020 12005 11975 11930 11900 11890 11850 11840 11805 11800 11725 9615 9615 9610 9450 7335 7315 |

| | | | | |
|-----------|---|-----------|----------|---------------------------|
| 1900-2000 | 17680 15560 15550 15465 15460 15130 15110 12065 12055 12045-(to 1930) 12040 12035 12030 12025 12020 12005 11980-(fm 1930) 11975 11930 11900 11890 11850 11840 11805 11800 11725 9615 9610 9450 7400-(fm 1930) 7335 7300 7295 7245 | 2000-2030 | French | 11615-(announced) 9965 |
| | | 2030-2100 | English | 11615-(announced) 9965 |
| | | 2100-2130 | Spanish | 11615-(announced) 9965 |
| 2000-2100 | 17680 15560 15550 15465 15460 15435 15130 15110 12065 12055 12045 12040 12035 12030 12025 12020 12005 11980 11975 11930 11915 11900 11890 11860 11850 11840 11800 11775 11730 11725 11675 9875-(fm 2030) 9735 9685 9615 9610 9540 9450 7400 7325 7300 7295 7245 | 2130-2145 | Armenian | 11615-(announced) 9965 |

(BBCM)

Radio Ukraine Internat. announced recent test broadcasts of *Golos Rossii* via Ukrainian tx site of Nikolayev Kopani on 6030, 6085, and 12030 kHz, all 1000 kW. (Ludwig/Bueschel-Germany/BCDX)

| | |
|-----------|---|
| 2100-2200 | 17680 15560 15550 15465 15460 15435 15130 15110 12065 12055 12045 12040 12035-(fm 2130) 12030 12025 12020 12005 11980 11975 11930 11915 11900 11890 11860 11850 11840 11800 11775 11755 11730 11725 11675 9875 9820-(to 2130) 9735 9685 9615 9540 9450 7400 7325 7300 7295 7245-(to 2130) |
|-----------|---|

(BBCM)

Radio Almaty. Kazakhstan, via Kiev tx 200 kW, 254 degrees, replaced 9560 by 11705 kHz, 0500-1530, in Kazakh & partly Russian languages. English progr at 0530-0600 loud and clear. Night frequency of Almaty via Kiev-UKR is still 5940 kHz, approx. 0100-0530. (Beschel-Germany/BCDX)

Radio Kala Aturaya. Moscow noted on Saturdays only at 1600-1700 on 4055, 6005, 6130 kHz. (Rudnev-Russia/Bueschel-Germany/BCDX)

Voice of Armenia. Yerevan, entirely from observations:

| | | |
|-----------|----------------------|------------------------------|
| 0000-0045 | Armenian/ Spanish | 9965 |
| 0630-0645 | Armenian | 15270 Su |
| 0645-0700 | Persian | 15270 Su |
| 0700-0715 | Spanish | 15270 Su |
| 0800-0830 | French | 15270 Su |
| 0830-0900 | English | 15270 Su |
| 1400-1430 | Azeri | 9965 7480 4990 4810 |
| 1430-1445 | Georgian | 9965 7480 4990 4810 |
| 1445-1530 | Kurdish | 9965 7480 4990 4810 |
| 1530-1600 | Persian | 9965 7480 4990 4810 |
| 1600-1630 | Russian | 9965 7480 4990 4810 |
| 1630-1730 | Armenian | 9965 7480 4990 4810 |
| 1730-1745 | Turkish | 9965 7480 4990 4810 |
| | Mo-Fr | |
| 1730-1800 | Turkish | 9965 7480 4990 4810 Sa/Su |
| 1745-1800 | English | 9965 7480 4990 4810 Mo-Fr |
| 1800-1900 | Arabic | 9965 7480 4990 4810 |
| 1900-2100 | Armenian | 9965 7480 4990 4810 |

CLANDESTINE-ASIA Two clandestine radio stations broadcasting from Jammu and Kashmir, in English language also. **Radio Free Kashmir**, estimated location in Chinese controlled border region of Aksii-Chin, bc regularly in English on 4997, 5125, 6295, and 6991 kHz at 1800-1900. **Radio Voice of Independent Kashmir** observed on 5000 kHz around 1630. Address for both stations: P.O.Box 12, Muzafarabad, Azad Kashmir, Pakistan. (Wolfgang DC3MF-Germany/Bueschel-Germany/BCDX)

Clandestine radio activity from the Tigers of the Tamil kind has been noticed on 6825 kHz LSB at Baticaloa in the east of the country. Programming consists of speeches and appeals and distress calls and a lot of coded messages in Tamil. There is no voice ID, broadcasts are in short bursts, often moving around the band quickly. Maybe it is a low-powered communications (communicating with Sea Tigers' boats at sea?) outfit doubling up as a broadcast station, as the Sri lankan army's military communications is heard around that frequency. The regular LTTE station **Puggalin Kural (Voice of the Tigers)** on 100 MHz has not been heard in Jaffna since the bastion fell to the Sri Lankan army in December, 1995. (DX Grapevine/Guha-India/ODXA World Radio Report/Clark-Canada)

CLANDESTINE-MIDEAST Holy Medina Radio, which broadcasts in opposition to the governments of Saudi Arabia and other Gulf states from a short-wave transmitter believed to be in Iraq, continues to be heard on 11785 at around 0400-0600. According to Finn Krone's *Wavescan* program on Adventist World Radio on 24th March, Holy Medina Radio has been heard recently at 0400-1525 on 9530 kHz. (BBCM)

The Iraqi opposition station, **Radio of Jihad**, was observed on 8th April from 1500-1600 on 6064 kHz. The radio, which broadcasts in support of the Islamic al-Da'wah Party, was previously heard from 1600-1700 on 1116 kHz mediumwave. The change in timing follows Iraq's switch to summer time on 1st April.

Voice of Rebellious Iraq, which supports the Iranian-sponsored Supreme Assembly of the Islamic

Revolution in Iraq, has also changed its broadcast times and is now observed from 1200-1430 on 6064 kHz. Prior to 1st April, it was heard at 1300-1530 and 1830-2100 on the same frequencies.

Both stations are believed to broadcast from the same transmission facilities in Iran. (BBCM)

CLANDESTINE-PACIFIC *Radio Free Bougainville* reportedly began broadcasting on 25th January 1992. It broadcasts in support of the Bougainville Interim Government, which unilaterally declared independence from Papua New Guinea on 17th May 1990.

The radio has announced an address of P.O.Box 1203, Honiara, Solomon Islands or c/o Sam Voron, International Amateur Radio Network, 2 Griffith Avenue, Roseville, NSW 2069, Australia. Radio Free Bougainville is believed to broadcast intermittently, when fuel is available, in English and Pidgin English. Sked is 0900-1100 on 3850v (alt 3880). (BBCM)

Radio United Bougainville was set up by the Papua New Guinea government in February 1994 to counter the broadcasts of the separatist station Radio Free Bougainville (see schedule PNGRC000). Radio United Bougainville is reportedly funded by the Bougainville Transitional Government and broadcasts from Loholo on the east coast of Central Bougainville. Address: Public Awareness Campaign Unit, Box 268, Buka, Papua New Guinea. Sked 0900-1100 in English and Pidgin English on 3880v (alt 6010). (BBCM)

COSTA RICA *RFPI* announced that they have now received parts to upgrade their 5 kW transmitter used on 15050 USB to 10 kW. This will allow them to switch back to AM mode for daytime transmissions. They are also thinking of using it evenings on 6200 or 6205 kHz. No specific timeframe was given other than they are looking at a complete rebuilding job that would take a couple of months. Reference was also made to an extended schedule on 7385 which is now 2200-1600. (Karthaus/ODXA World Radio Report/Clark-Canada)

CROATIA *Hrvatski Radio-Televizija* lists news in English at 0703 M-F, 0803 Sa/Su and 0903 Mo-Fr to Europe on 5920, 7165 and 9830 kHz. Also 1303 on 5920 and 7165 kHz to EUR and 13830 kHz to NoAM; and 2203 on 5985 and 7165 kHz to EUR, 13830 kHz to NoAM. At 1/in 2130 UTC I can hear 7165 (replaces 7315) kHz and 5895 (albeit poorly), but no trace of 13830 kHz. (23-Apr/Sundstrom/Bueschel-Germany)

CYPRUS *Radio Bayrak* is no longer active on SW, but the transmitter is still there and station plans to return to 49mb when a technical problem has been fixed, according to a visit to station in 1995. (26-Mar/hard-core-dx/DXW/E-DXP-ARDXC/Padula-Australia)

ETHIOPIA Prior to the overthrow of the Mengistu regime in May 1991, *Voice of the Tigray Revolution* operated as a clandestine station; it now broadcasts from Mekele, capital of Tigray region in northern Ethiopia. Sked:

| | | |
|-----------|----------|-----------------------|
| 0400-0500 | Tigrigna | 7515 6770-unconfirmed |
| 1500-1600 | Tigrigna | 7515 6770 |

(BBCM)

FRANCE *RFI Paris* English summer schedule:

| | |
|-----------|--|
| 1200-1300 | 9805 15155 15195 15325 11600 13625 13625 15530 |
| 1400-1500 | 17560 15405 7110 15405 |
| 1600-1700 | 6175 11615 11700 12015 15530 11615 12015 15210 15460 |
| 1700-1730 | 15210 15460 |

(Bueschel-Germany/BCDX)

GREECE *Voice of Greece*, from 5-May:

| | | |
|-----------|---------------|------------------|
| 0000-0350 | Greek/English | 9935 9420 7448 |
| 0400-0555 | GK/Turkish/AA | 15650 9420 7450 |
| 0600-0800 | Greek/English | 11645 9420 7450 |
| 0900-0950 | Greek | 15650 15415 |
| 1000-1150 | Greek/Turkish | 9915 9425 |
| 1200-1250 | Greek/AA/EE | 11645 |
| 1200-1350 | Greek/English | 15650 15175 |
| 1300-1350 | Greek/Russian | 11645 |
| 1400-1450 | Greek/Arabic | 15630 11645 9420 |
| 1500-1700 | Balkans | 11645 9420 9375 |
| 1710-1750 | GK/Polish/RR | 11645 9425 9375 |
| 1800-1850 | Greek/English | 15150 11645 |
| 1800-1900 | Greek | 7450 |
| 1900-1950 | Balkans | 9375 |
| 1900-2150 | Greek | 9420 7450 |
| 2000-2010 | English | 7430 |
| 2010-2020 | French | 7430 |
| 2020-2030 | German | 7430 |
| 2030-2040 | Italian | 7430 |
| 2040-2050 | Swedish | 7430 |
| 2100-2250 | Greek/English | 9425 |
| 2200-2300 | Greek | 11595 9395 |
| 2300-2350 | GK/SS/PP/EE | 11595 9425 9395 |

(BBCM)

GUAM As of 31 March, *Adventist World Radio* [AWR] Asia reduced its hour-long programs to a half-hour each in order to make room for a planned 18 additional languages later this year. (21-Apr/R. Japan/BBCM)

| | | |
|-----------|--------------|-------------------|
| Sked: | | |
| 0000-0030 | Burmese | 17645 |
| 0000-0030 | Mandarin | 15225 |
| 0100-0130 | Bangla | 17645 |
| 0100-0130 | Mandarin | 15225 |
| 0200-0230 | Mandarin | 13720 15225 Sa/Su |
| 0300-0330 | Mandarin | 13720 15225 Sa/Su |
| 1000-1030 | Mandarin | 11980 |
| 1000-1030 | Minnan/Kakka | 15225 |
| 1000-1030 | Russian | 9530 |

| | | |
|-----------|--------------|-------------|
| 1000-1100 | English | 9370 |
| 1100-1130 | Cantonese | 9370 |
| 1100-1130 | Indonesian | 13720 |
| 1100-1130 | Mandarin | 11980 |
| 1100-1130 | Mandarin | 15225 |
| 1130-1200 | Shangainese | 9370 |
| 1200-1230 | Filipino+ | 13720 |
| 1200-1230 | Korean | 9650 |
| 1200-1230 | Mandarin | 9370 |
| 1200-1230 | Vietnamese | 11850 |
| 1300-1330 | Bangla | 13720 |
| 1300-1330 | Japanese | 9650 |
| 1300-1330 | Mandarin | 11980 7455 |
| 1330-1400 | English | 9650 |
| 1400-1430 | Burmese | 9370 |
| 1400-1430 | Mandarin | 11980 7455 |
| 1400-1430 | Sinhalese | 7395 |
| 1500-1530 | Hindi | 9385 |
| 1500-1530 | Indian< | 7395 |
| 1500-1530 | Indian> | 9370 |
| 1500-1530 | Indian~ | 11980 |
| 1600-1630 | Arabic | 13840 |
| 1600-1630 | English | 7395 |
| 1700-1730 | Arabic | 13840 |
| 1700-1730 | Farsi | 9370 |
| 1730-1800 | English | 9370 |
| 2000-2030 | Korean | 5950 9495 |
| 2100-2130 | Japanese | 15310 |
| 2100-2130 | Mandarin | 9370 |
| 2130-2200 | English | 15310 |
| 2200-2230 | Indonesian | 9635 |
| 2200-2230 | Mandarin | 11980 15225 |
| 2200-2230 | Vietnamese | 11775 |
| 2300-2330 | Cantonese | 11980 |
| 2300-2330 | English | 11775 |
| 2300-2330 | Mandarin | 15225 15610 |
| 2330-2400 | Shanghainese | 11980 |

+=Sat, Tue, Fri-Tagalog; Sun, Thur-Ilonggo; Mon, Wed-Cebuano.

~Mon, Wed, Fri-Marathi; Sun, Tue, Thur, Sat-Telugu.

<=Mon, Wed, Fri-Tamil; Tue, Thur, Sat, Sun-Kannada.

>=Tue, Thur, Sat-Punjabi; Sun, Mon, Wed, Fri-Malayalam.

(28-Mar/Ogrizek-Australia/Bueschel-Germany/BCDX)

KSDA's new sked shows English at:

| | |
|-----------|-------|
| 1000-1030 | 9370 |
| 1030-1100 | 9530 |
| 1330-1400 | 9650 |
| 1600-1700 | 7395 |
| 1730-1800 | 9370 |
| 2130-2200 | 15130 |
| 2300-2330 | 11775 |

(Cushen/RNZI/ODXA World Radio Report/Clark-Canada)

GUINEA Unid radio station mentioned often Guinea, observed on 9650 kHz daily *1500-1700,

then covered by VoA in Czech. Conakry registered on 9650. (16-Apr/Pankov-Bulgaria/Bueschel-Germany/BCDX)

INDIA According to Pakistan Radio, "freedom fighters" clashed with Indian troops in Srinagar, Kashmir, and launched a rocket attack on the transmission station of *All India Radio*, resulting in extensive damage to the building. (BBCM)

4790 AIR is definitely *AIR Itanagar*, as confirmed by AIR with the allocated times of 1030-1730. Monitoring in Delhi and Colombo revealed that there is a severe het from *Azad Kashmir Radio* on 4790.6 kHz. Earlier reports of frequency punch up error with AIR Shillong on 4970 and both AIR's Gangtok and Itanagar using 4790 on a split schedule are not correct. Reports to AIR Itanagar could be sent to: Mr. J.T. Jirdoh, Station Director, AIR Itanagar, SW Transmitter, Naharlagun, Itanagar-791 110, Arunachal Pradesh, India.

AIR Ganktok in the neighboring state of Sikkim continues to operate on a regular schedule on 3390 kHz at 1200-1428.

AIR has made two frequency changes to its General Overseas Service in English: 2245-0045 to North East Asia is now on 11660 kHz from Bangalore 500 kW, replacing 13700 kHz; and on 7155 kHz from Aligarh 250 kW, replacing 15145 kHz. More changes are expected on Sunday, May 5th. (all above items from DX Grapevine/Guha-India/ODXA World Radio Report/Clark-Canada)

IRAN VOIRI Tehran is announcing the following English schedule:

| | |
|-----------|-------------------|
| 0030-0130 | 6015 9022 |
| 1130-1230 | 11875 11930 15260 |
| 1530-1630 | 7290 9635 |
| 1930-2030 | 7260 9022 |
| 2130-2230 | 6175 |

(8-Apr/Sundstrom/Bueschel-Germany/BCDX)

ISRAEL The summer schedule (as from Mar 30th) for *Kol Isreal* lists English as follows: 0400-0415 on 7465, 9435 & 17545; at 1400-1430 on 12077 & 15615; and at 1900-1930 on 7465, 9435, 11605, 15615 & 15640 kHz. (Sennitt/RN Media Network/BBCM)

ITALY According to a QSL letter, *RAI Caltanissetta* is operating on the following schedule: 6060 (3 kW), 7175 & 9515 (both 5 kW) at 0500-2300 in winter; 0400-2200 in summer. The power on 6060 has been reduced from 25 kW. (Krepp/ODXA World Radio Report/Clark-Canada)

LAOS The external service of *Lao National Radio* in Vientiane has been heard on 7116v from around

midnight until sign off at 0200. The 1100-1400 broadcast has not been heard recently. (16-Apr/RN Media Network/BBCM)

LEBANON Continental Electronics corporation has been selected to modernize the state-run *Radio Lebanon* at a cost of 33m dollars. The project involves the construction of new buildings and the installation of six new shortwave, AM and FM transmitters. (20-Apr/WRN/Monitoring Times/UPI/Alpert/BBCM)

LESOTHO *Radio Lesotho's* present shortwave transmitter will be closed down in September due to the termination of the agreement between the BBC and the Lesotho National Broadcasting Service, LNBS, over the use of this transmitter. The BBC will still have other transmitters in Lesotho, but the maintenance of the remaining transmitters will continue to be done by local technicians. (29-Mar/R. Lesotho/BBCM). The BBC currently operates two 100-kW shortwave transmitters, and one 100-kW mediumwave and one 1-kW VHF/FM transmitter in Lesotho. From 1st October 1996 the BBC will be ceasing the use of the two shortwave transmitters, replacing them with extra hired airtime via the Meyer-ton shortwave transmitting station in South Africa. From the above announcement it appears that *Radio Lesotho's* shortwave transmitter, which operates on 4800 kHz, will also be closing down; this transmitter is co-located with the BBC's transmitters at the Lancers gap site. (BBCM)

LIBERIA 4760 kHz *ELWA* Monrovia at 2140 still on the air, despite the fighting. Hrd on Apr. 12 with messages to and from people affected, including many in the ELWA compound. And the names of a group of children who were safe in the compound. Abrupt close at 2200 with brief acmt. I think saying they would be remaining on 94.5 FM. Also hrd on Apr. 13 at 2200 pass, closing with NA and anct saying they would be back at 0600. Check at 0715 found them still in, though difficult to understand spoken segments by this time. Probably would have been OK at *0600, however. (Berg/Cumbre)

MADAGASCAR For Z96, *Deutsche Welle* programs via the *Radio Netherlands* relay are listed for only ONE frequency (formerly two). From 0900-0950, on new 15225, with English to Central and East Africa. (31-Mar/E-DXP-ARDXC/Padula-Australia)

MALI *China Radio International* Bamako relay observed now on 11760 instead of 11715 kHz for English at 0000 & 0300, //9710 Mali. (Hecht/WoR/Contact/Bueschel-Germany/BCDX)

MONGOLIA *Radio Ulan Bator* sked:
0930-1000 English 12085 11850
1000-1030 Russian 12085 11850

| | | |
|-----------|----------|-------------|
| 1030-1100 | Japanese | 12085 11850 |
| 1100-1130 | Chinese | 12085 11850 |
| 1130-1200 | Japanese | 12085 11850 |
| 1230-1300 | English | 12085 9745 |
| 1300-1330 | Chinese | 12085 9745 |
| 1330-1400 | Russian | 12085 9745 |
| 1430-1500 | Chinese | 12085 9745 |
| 1500-1530 | English | 12085 9745 |
| 1900-1930 | Russian | 12085 9745 |
| 1930-2000 | English | 12085 9745 |

(BBCM)

MOZAMBIQUE *Radio Mocambique* was noted trying to jumpstart its creaky 31-mb transmitter. Noted on 9617.8 at 0225 with pop mx and occasional anmts by M in PPP. Signal peaked around 0240, drifting downward at the steady rate of 5Hz/minute. By 0300 it was on 9615.69 and still moving, but faded out by 0310. (Quaglieri). 5896 kHz *Radio Mocambique* 0640-0710 UTC in Portuguese w/ID, ads, then tlk + mx pgm. New frequency. (12-Apr/ClemitsenDXW/Bueschel-Germany)

NEW ZEALAND *Radio New Zealand Int'l* has a new winter schedule valid to Oct 6/96 as follows: 1650-1952 on 6145; 1953-2206 on 9810; 2207-0106 on 11735; 0107-0458 on 15115; 0459-0715 on 9570; and 0717-1206 on 6100 kHz. (Cushen/RNZI/ODXA World Radio Report/Clark-Canada)

NIGERIA The *Voice of Nigeria*, VON, the nation's external radio, which went off the air in October last year, was supposed to return to the air in April, according to a statement from Nigeria's Minister of Information and Culture, Dr. Walter Ofonagoro. He explained that this followed the refurbishing of a faulty transmitter, while new studio and transmitting equipment have been purchased to avert any future breakdown of the station. (27-Mar/R. Nigeria-Kaduna/BBCM) Watch 7255...[ed.]

The station mentioned in last month's column as prospectively being the reactivated *Radio Plateau* (Nigeria) on 5965 kHz is now believed to have been *Radio Oranje* from South Africa—with s/on noted at 0441—which was scheduled to operate on this frequency at 0440-0650, at least through March 31st during the southern hemispheric summer broadcasting season. (Alexander/WOR/ODXA World Radio Report/Clark-Canada)

NORWAY *Radio Norway International*:

| | | |
|-----------|-----------|--------------------------|
| 0000-0030 | Norwegian | 9525 7465 7275 |
| 0100-0130 | English | 9560 Mo |
| 0100-0130 | Norwegian | 9560-(not Mo) 7465 |
| 0200-0230 | Norwegian | 9560 7465 |
| 0300-0330 | Norwegian | 9565 7465 7165 |
| 0400-0430 | English | 7465 Mo |
| 0400-0430 | Norwegian | 13805 9565 7465-(not Mo) |
| 0500-0530 | Norwegian | 13805 7465 |

0600-0630 English 9590 7295 7180 Su
 0600-0630 Norwegian 13805
 0600-0630 Norwegian 9590 7295 7180 Mo-Sa
 0700-0730 Norwegian 13805 7295
 0700-0730 Norwegian 9590 7180
 0800-0830 English 17860 Su
 0800-0830 Norwegian 17860-(not su) 15220
 0900-0930 Norwegian 13800
 0900-0930 Norwegian 17860
 1000-1030 Norwegian 15220 9480
 1100-1130 Norwegian 17740
 1100-1130 Norwegian 7295
 1200-1230 English 15305 13800 9590 Su
 1200-1230 Norwegian 11840 Su
 1200-1230 Norwegian 15305 9590 13800 11840
 Mo-Sa
 1300-1330 English 15340 13800 Su
 1300-1330 Norwegian 15305 9590
 1300-1330 Norwegian 15340 13800 Mo-Sa
 1400-1430 Norwegian 13800
 1400-1430 Norwegian 15340
 1500-1530 Norwegian 15230 13805 11840
 1600-1630 English 13805 11860 11840 Su
 1600-1630 Norwegian 15340 13805 11860 11840
 Mo-Sa
 1600-1630 Norwegian 15340 Su
 1700-1730 Norwegian 15220 11860 7485
 1800-1830 English 15220 13805 9590 7485 Su
 1800-1830 Norwegian 15220 13805 9590 7485
 Mo-Sa
 1900-1930 Norwegian 11860
 1900-1930 Norwegian 15220 13805 7520
 2000-2030 English 9590 Su
 2000-2030 Norwegian 7485
 2000-2030 Norwegian 9590 Mo-Sa
 2100-2130 Norwegian 9590 9495 7205
 2200-2230 English 9495 Su
 2200-2230 Norwegian 11840
 2200-2230 Norwegian 9495 Mo-Sa
 2300-2330 Norwegian 7490 7275
 2300-2330 Norwegian 9485
 (BBCM)

"Democratic Voice Of Burma" program via Norway:

1100-1130 Burmese 15170
 1430-1455 Burmese 11850
 (BBCM)

There is growing concern at the Fredrikstad shortwave site of *Radio Norway International* that, unless they can find commercial clients, the station will be closed down by the end of this year. By then, the transmitter site at Sveio will have their second transmitter operational and Sveio, along with the transmitter site at Kvitsoy, will take care of all *Radio Norway* and *Radio Denmark's* programming. (28-Mar/RN Media Network/BBCM)

PAKISTAN *Radio Pakistan* in English:

0230-0245 7290 15485 (x15190) 17705 17725
 21730

0800-0850 15470 17895
 1105-1120 15470 17895
 1600-1630 9425 (x9485) 9515 (x9785) 11570
 11935 (x11745) 13590 15555
 1700-1750 5825 11570
 (11-Apr/WoR/Bueschel-Germany/BCDX)

PERU 4279.36, *R. Cajamarca*, not on their listed 4238 fcy in recent days, but rather up around variable 4279.36. 1130-1200 on Apr 4 with the *Radio Club de la Provincia* letter program, which included many comunicados. At 1201, ID as *R. Cajamarca*. Signals are fairly strong, but difficult to understand because either a problem with the xmtr or the signal mostly covered by a roaring utility xmsn of some kind, difficult to tell which. (McVicar-Ecuador/NU)

5980, new stn, *Radio NT6* (sounding like ene-te-seis) noted at 0138-0208 on Mar 12. ID anncd as "*Cubriendo el Altiplano desde el sur, Ud. escucha la claridad y potencia de Radio NT6...informacion cultural y una programacion especialisima. Siga con nosotros que nosotros seguimos trabajando para Ud. Radio NT desde el Jiron Union 242, telefono 322452, 322560, Juliaca, Peru.*" (Nigro-Uruguay/TIN Relampago DX/NU)

6818.3 UnID 0124 with Andean-type vocals and occasional brief quena riffs, brief Spanish announcements shouted by enthusiastic DJ. After 0145 or so, songs had distinct Oriental flavor. Very weak with muffled music audio. Off 0207. As I mentioned when reporting this one last week, nothing listed in this vicinity. (19-April/Hill)

POLAND *Polish Radio, Warsaw:*

| | | |
|-----------|-------------|------------------------------------|
| 1100-1125 | Polish | 7285 7270 |
| 1100-1125 | Russian | 9525 7145 6095 |
| 1130-1155 | Belarussian | 7285 6995 |
| 1130-1155 | German | 9525 7145 6095 |
| 1200-1255 | Polish | 11815 9525 7270 7145 6095 |
| 1300-1325 | Lithuanian | 7145 6095 |
| 1300-1325 | Russian | 9525 7285 7270 |
| 1330-1355 | Belarussian | 7270 6095 |
| 1330-1355 | Esperanto | 9525 7285 7145 6000 |
| 1400-1425 | German | 9540* 9525 7285 7145 6095 6000* |
| 1400-1425 | Slovak | 7206 6000 |
| 1430-1455 | Russian | 7270 7145 |
| 1430-1455 | Ukrainian | 7285 6035 5995 |
| 1500-1525 | German | 7270 7145 6000 |
| 1500-1525 | Lithuanian | 7180 6035 |
| 1530-1555 | Belarussian | 7180 6095 |
| 1530-1625 | Polish | 9670 7285 7145 6000 |
| 1600-1625 | Czech | 7215 6095 |
| 1630-1655 | German | 9525 7270 6095 6035 6000 |
| 1700-1755 | Polish | 7285 7270 6095 |
| 1700-1725 | Ukrainian | 7180 5915 |
| 1730-1755 | Lithuanian | 7180 5915 |

| | | |
|-----------|-------------|----------------|
| 1800-1825 | Belarussian | 7180 5915 |
| 1800-1825 | Russian | 7285 7270 6000 |
| 1830-1855 | Ukrainian | 7270 6035 6000 |
| 1900-1925 | Czech | 7215 6035 |
| 1930-2025 | Polish | 7285 6095 6035 |
| 2030-2055 | Esperanto | 6095 6035 |
| 2100-2155 | Polish | 6095 6035 |

*-except Sunday

(Ageenkov-Russia/Bueschel-Germany/BCDX)

QATAR QBS was heard April 3 on new 9585 at 0245 s/on after guitar IS with opening by woman in Arabic. Fair signals. (Hill)

SAUDI ARABIA 6019.2 BSKSA Program #2 @2137 news in Arabic with African datelines plus lengthy item about Lebanon with many mentions of France. Standard ID at 2151, then Qur'an. WRTH shows nominal 6020 only running till 2100*. (14-Apr/Hill)

BSKSA Riyadh in Indonesian on new 21670 kHz at 1000-1200. Holy Quran scd at 0900-1200 on 17895 (and 21495) kHz, but caused intense interference to Radio Pakistan WS in Urdu/E at 0800-1120 on odd 17894.9 kHz. Both are slightly off, mostly 200 Hertz apart. (Bueschel-Germany/BCDX)

SEYCHELLES IBRA radio current program schedule targeted to Africa via FEBA Mahe Seychelles tx site: Mon & Fri 0415-0430 9420 kHz in Portuguese language. (Vaughan-GB/BDXC/Bueschel-Germany/BCDX)

SINGAPORE Radio Singapore International in English replaced 9530 by 6015 kHz from April 1st. English noted at 1100-1400, //6155 kHz. (5-Apr/Schulze-Philippines/Bueschel-Germany/BCDX)

SLOVAKIA Radio Slovakia International sked:

| | | |
|-----------|---------|-------------------|
| 0100-0130 | English | 9440 7300 5930 |
| 0130-0200 | Slovak | 9440 7300 5930 |
| 0200-0230 | French | 9440 7300 5930 |
| 0800-0830 | German | 7300 6055 |
| 0830-0900 | English | 17550 15460 11990 |
| 0900-0930 | Slovak | 17550 15460 11990 |
| 1300-1330 | Russian | 13715 11990 9440 |
| 1330-1400 | German | 7345 6055 5915 |
| 1500-1600 | Slovak | 7345 6055 5915 |
| 1600-1630 | French | 7345 6055 5915 |
| 1630-1700 | English | 7345 6055 5915 |
| 1700-1730 | Slovak | 7345 6055 5915 |
| 1730-1800 | Russian | 9485 7150 5915 |
| 1800-1830 | German | 7345 6055 5915 |
| 1830-1900 | English | 7345 6055 5915 |
| 1900-1930 | Slovak | 7345 6055 5915 |
| 1930-2000 | French | 7345 6055 5915 |

(BBCM)

SOMALIA A previously-unheard Somali radio station, broadcasting on 6545 kHz, was intercepted in progress at 1520 on 7th April. It was playing religious music. At 1530 the station carried the following announcement in Somali: *This is Holy Koran Radio, the voice of Ahlu Sunnah Waljama, Mogadishu* [Somali: *Idaa'adda Qur'aanka Kariimka, ee Codka Ahlu Sunnah Waljama, Moqdisho*]. Ahlu Sunnah Waljama is a fundamentalist Islamic organization.

The announcement continued: "We are broadcasting on the 49-metre shortwave band. Listeners: This radio—which is a religious radio—is test broadcasting until the 15th of this month. After then it will broadcast various religious programs such as interpretations [of the Koran], the Prophet's traditions and [Islamic] jurisprudence.

"During the test broadcast the radio will carry Koranic readings and praises to the Prophet. The radio signs on at 6 p.m. and signs off at 8 p.m. Mogadishu time [1500-1700 UTC]."

The station remained on the air until signing off, as announced, at 1700. The above announcement was repeated every 30 minutes; the remainder of the broadcast consisted of music.

BBC Monitoring knows of at least three other shortwave stations operating in Mogadishu at present. They broadcast on behalf of the faction leaders Muhammad Farah Aydid, Ali Mahdi Muhammad and Uthman Ato. All of them use similar frequencies to that of Holy Koran Radio. (BBCM)

SOUTH AFRICA Channel Africa latest:

| | | |
|-----------|------------|------|
| 0300-0355 | French | 6120 |
| 0300-0355 | Swahili | 6000 |
| 0300-0455 | English | 3220 |
| 0300-0455 | English | 5955 |
| 0330-0425 | Chinyanja | 3955 |
| 0400-0455 | French | 6120 |
| 0400-0455 | Portuguese | 3345 |
| 0400-0455 | Portuguese | 5965 |
| 0500-0555 | English | 5955 |
| 0500-0555 | English | 9590 |
| 0500-0555 | French | 9525 |
| 0500-0555 | Portuguese | 7185 |
| 0900-0955 | Tsonga * | 5955 |
| 1500-1555 | Shona | 4945 |
| 1500-1655 | Swahili | 9650 |
| 1500-1755 | English | 3220 |
| 1500-1755 | English | 7155 |
| 1600-1655 | English | 9530 |
| 1600-1655 | Lozi | 4945 |
| 1600-1755 | Chinyanja | 4875 |
| 1700-1755 | Bemba | 4945 |
| 1800-1855 | Tsonga | 3345 |
| 1900-1955 | Portuguese | 3345 |
| 2000-2055 | Portuguese | 5955 |

*-Saturdays and Sundays only

Afrikaans Stereo (domestic service)

| | | |
|-----------|-----------|------|
| 0300-0545 | Afrikaans | 3320 |
| 0550-1530 | Afrikaans | 6000 |
| 1535-2300 | Afrikaans | 3320 |

Radio Oranje (domestic service)

| | | |
|-----------|---------------|------|
| 0000-0550 | Eng/Afrikaans | 3230 |
| 0555-1525 | Eng/Afrikaans | 5965 |
| 1530-2400 | Eng/Afrikaans | 3230 |

Radio 2000 (domestic service)

| | | |
|-----------|---------------|------|
| 2300-0300 | Eng/Afrikaans | 3320 |
|-----------|---------------|------|

(Bueschel-Germany/BCDX)

SRI LANKA *Deutsche Welle's* relay station in Trincomalee, in northeast Sri Lanka, which closed down on security grounds more than six months ago, resumed operations on 15 April. (BBCM) No sked was given. Sorry...ed.

SWAZILAND Latest from *Trans World Radio*:

| | | |
|-----------|-------------|----------------------|
| 0300-0330 | Ndebele | 3200 |
| 0300-0330 | Swahili | 4760 |
| 0300-0345 | Shona | 3240 |
| 0315-0345 | Tswana | 3335 |
| 0330-0345 | Swahili | 4760 Sa |
| 0333-0404 | Amharic | 7215-(Meyerton) |
| 0400-0415 | Lomwe | 6100 |
| 0400-0430 | German | 4775 3200 |
| 0400-0500 | Chewa | 6045 |
| 0405-0419 | Somali | 7215-(Meyerton) |
| 0430-0505 | English | 6070 4775 3200 |
| 0505-0605 | English | 9500 6070 4775 3200 |
| 0600-0700 | English | 11730-(Meyerton) |
| 0605-0700 | English | 9650 9500 6070 4775 |
| 0700-0805 | English | 9650 9500 4775 3200 |
| 0805-0820 | English | 9650 9500 4775 Mo-Fr |
| 1400-1415 | Urdu | 15195 |
| 1425-1430 | Portuguese | 7315 Mo-Fr |
| 1430-1515 | Portuguese | 7315 |
| 1500-1515 | Malagasy | 7125 |
| 1515-1530 | Lomwe | 7315 |
| 1515-1545 | French | 7125 |
| 1530-1545 | Makua | 7315 |
| 1540-1555 | Tigrigna | 9500 Su/Fr |
| 1600-1630 | Tshwa | 3240 3200 |
| 1600-1700 | Chewa | 5965 |
| 1600-1830 | English | 9500 |
| 1630-1645 | Shangaan | 3240 |
| 1630-1700 | German | 3200 |
| 1630-1700 | Oromo | 9830-(Meyerton) |
| 1700-1730 | Tigrigna | 9830 |
| 1700-1730 | Tswana | 3200 |
| 1700-1830 | Swahili | 5965 |
| 1730-1745 | Pedi | 3200 Sa/Su |
| 1730-1745 | Sotho | 3200 Fr |
| 1730-1800 | Amharic | 9830 |
| 1730-1800 | Zulu | 3240 |
| 1745-1800 | English | 3200 Mo-Fr |
| 1800-1830 | Ndebele | 3240 |
| 1800-2015 | English | 3200 |
| 1830-1845 | Kinyarwanda | 5965 Su |

| | | |
|-----------|------------|-----------------|
| 1830-1845 | Swahili | 5965 Mo-Sa |
| 1830-1915 | Shona | 3240 |
| 1845-1900 | Umbundu | 6035 |
| 1900-1930 | Lingala | 9520 |
| 1900-1930 | Portuguese | 6035 |
| 1900-1930 | Yoruba | 9510-(Meyerton) |
| 1930-2000 | French | 9520 |
| 1930-2000 | Fulani | 9510-(Meyerton) |
| 1930-2000 | Kimbundu | 6035 |
| 2000-2005 | Portuguese | 6035 Mo-Fr |
| 2000-2015 | French | 9520 Sa/Su |
| 2000-2030 | Hausa | 9510-(Meyerton) |
| 2015-2045 | English | 3200 Su |
| 2030-2100 | Twi | 9510-(Meyerton) |

(BBCM)

SWEDEN *Radio Sweden* sked:

| | | |
|-----------|----------|----------------------------|
| 0000-0030 | Swedish | 6065 |
| 0030-0100 | English | 6065 |
| 0100-0130 | Swedish | 9435 7290 7120 |
| 0130-0200 | English | 9435 7290 7120 |
| 0200-0230 | Swedish | 7290 |
| 0230-0300 | English | 7290 |
| 0300-0330 | Swedish | 7115 |
| 0330-0400 | English | 7115 |
| 0400-0615 | Swedish | 13625 6065 Mo-Fr |
| 0600-0810 | Swedish | 13625 6065 Sa |
| 0700-0900 | Swedish | 13625 6065 Su |
| 0900-1000 | German | 6065 Sa/Su |
| 1000-1030 | Swedish | 15120 6065 Sa/Su |
| 1030-1100 | Swedish | 13740 11650 6065 |
| 1100-1130 | Swedish | 15240 15120 13740 |
| 1130-1200 | English | 15240 13740-(Sa/Su only) |
| | | 11650 |
| 1130-1200 | Swedish | 13740 Mo-Fr |
| 1200-1230 | Russian | 15240 11640 |
| 1200-1230 | Swedish | 11865 |
| 1230-1300 | English | 15240 13740 |
| 1300-1330 | Russian | 9785 |
| 1330-1400 | English | 15245 11650 9835 |
| 1400-1430 | Swedish | 15245 11650 9835 |
| 1430-1445 | Estonian | 6065 6000 |
| 1445-1500 | Swedish | 11650 6065 6000 |
| 1500-1530 | Swedish | 6065 |
| 1530-1600 | Swedish | 13765 11650 6065 |
| 1600-1615 | Estonian | 6065 Su |
| 1600-1630 | Swedish | 13765 11650 6065 (to 1615) |
| 1615-1645 | Russian | 6200 6065 |
| 1645-1700 | Latvian | 6200 6065 |
| 1700-1800 | German | 6065 |
| 1800-1830 | Swedish | 9655 9430 6065 |
| 1830-1900 | English | 9655 9430 6065 |
| 1900-1930 | Russian | 7170 7120 6065 |
| 1930-2000 | English | 6065 |
| 2000-2030 | Swedish | 9655 9430 6065 Sa/Su |
| 2000-2100 | Swedish | 9655 9430 6065 Mo-Fr |
| 2030-2100 | English | 9655 9430 6065 Sa/Su |
| 2100-2130 | Swedish | 9655 9430 6065 |
| 2130-2200 | English | 9655 9430 6065 |

(BBCM)

TURKEY Voice of Turkey sked

| | | |
|-----------|-------------|-------|
| 0000-2400 | Turkish | 11955 |
| 0300-0400 | English | 17705 |
| 0300-0400 | English | 9655 |
| 0300-0400 | English | 9685 |
| 0400-0700 | Turkish | 9505 |
| 0400-0900 | Turkish | 11925 |
| 0400-0900 | Turkish | 15145 |
| 0400-0900 | Turkish | 21715 |
| 0700-0900 | Turkish | 13670 |
| 0700-2100 | Turkish | 9460 |
| 0700-2100 | Turkish | 9460 |
| 0730-0830 | Azerbaijani | 11835 |
| 0730-0830 | Azerbaijani | 9765 |
| 0830-0930 | Persian | 11795 |
| 0830-0930 | Persian | 9630 |
| 0900-1100 | Arabic | 15250 |
| 0900-1100 | Arabic | 9675 |
| 0900-1100 | Arabic | 9675 |
| 0900-1600 | Turkish | 15350 |
| 0900-2200 | Turkish | 9560 |
| 0900-2200 | Turkish | 9560 |
| 0900-2200 | Turkish | 9560 |
| 0930-1030 | Rumanian | 7110 |
| 0930-1030 | Serbo-Croat | 9505 |
| 1000-1500 | Turkish | 15625 |
| 1030-1130 | Greek | 7110 |
| 1030-1130 | Greek | 7150 |
| 1100-1200 | Chinese | 15185 |
| 1130-1230 | Albanian | 7165 |
| 1130-1230 | Bulgarian | 7110 |
| 1200-1300 | Urdu | 15415 |
| 1230-1330 | English | 9445 |
| 1230-1330 | English | 9445 |
| 1230-1330 | English | 9630 |
| 1300-1400 | Persian | 9710 |
| 1300-1400 | Russian | 9675 |
| 1300-1500 | Turkish | 13670 |
| 1330-1430 | German | 9445 |
| 1400-1500 | Azerbaijani | 6050 |
| 1400-1600 | Arabic | 11945 |
| 1400-1600 | Arabic | 9655 |
| 1400-1600 | Arabic | 9655 |
| 1430-1530 | Greek | 7110 |
| 1500-2200 | Turkish | 5980 |
| 1530-1630 | Hungarian | 7165 |
| 1600-0900 | Turkish | 15385 |
| 1600-1700 | Bulgarian | 6105 |
| 1600-2200 | Turkish | 7115 |
| 1600-2200 | Turkish | 7155 |
| 1700-1800 | Russian | 9675 |
| 1730-1830 | German | 9445 |
| 1730-1830 | German | 9645 |
| 1800-1900 | Bosnian | 9635 |
| 1830-1930 | English | 9445 |
| 1830-1930 | English | 9445 |
| 1830-1930 | English | 9445 |
| 1830-1930 | English | 9535 |
| 1930-2030 | French | 9445 |
| 1930-2030 | French | 9445 |
| 1930-2030 | French | 9590 |

| | | |
|-----------|---------|-------|
| 1930-2030 | French | 9590 |
| 1930-2030 | French | 9675 |
| 2100-0400 | Turkish | 11725 |
| 2100-0400 | Turkish | 11725 |
| 2100-0700 | Turkish | 9445 |
| 2100-0700 | Turkish | 9460 |
| 2100-0700 | Turkish | 9460 |
| 2200-2300 | English | 7280 |
| 2200-2300 | English | 9560 |
| 2200-2300 | English | 9560 |
| 2200-2300 | English | 9560 |
| 2200-2300 | English | 9655 |
| 2200-2300 | English | 9655 |
| 2200-2300 | English | 9655 |

(20-Apr/Ageenkov-Russia)

Polys Radio Istanbul is inactive, despite reports to the contrary. (Harold Kuhl-Germany/26-Mar/DXW/E-DXP-ARDXC/Padula-Australia)

UNITED KINGDOM NHK Radio Japan via BBC UK relay at Skelton-England:

| | | |
|-----------|----------|------------|
| 0000-0100 | Japanese | 6155 6180 |
| 0400-0500 | Japanese | 5960 7230 |
| 0500-0600 | English | 7230 |
| 0600-0700 | Japanese | 5975 7230 |
| 0700-0800 | English | 7230 |
| 0930-1000 | French | 9600 |
| 1000-1100 | Russian | 11710 |
| 1100-1130 | German | 9600 11710 |
| 2000-2100 | Japanese | 7210 |
| 2200-2300 | Japanese | 6050 6165 |
| 2300-0000 | English | 5965 |

(Bueschel-Germany/BCDX)

USA Summer schedule for KNLS:

| | | |
|-----------|-------------|------|
| 0800-0900 | English | 9615 |
| 0900-1100 | RR/Mandarin | 9615 |
| 1100-1200 | Russian | 6150 |
| 1200-1300 | Mandarin | 7365 |
| 1300-1400 | English | 7365 |
| 1400-1500 | RR/Mandarin | 9615 |
| 1500-1700 | Mandarin | 7365 |
| 1700-1800 | RR/Mandarin | 9615 |

(KNLS/Sundstrum/BCDX/Bueschel/ODXA World Radio Report/Clark-Canada)

The *Asia Pacific Network* has been created as the newest component of US international broadcasting. The Asia Pacific Network was originally to be called Radio Free Asia. It's the culmination of a political effort to create a radio service modelled after RL/RFE, aimed at the dictatorship, mostly Communist dictatorship, of East Asia. The new station would focus on news and commentary of the target countries. The actual broadcasts of the Asia-Pacific Network will not begin for a number of months but Richard Richter

was named President of the new corporation. Has worked at ABC and CBS news as well as non-commercial broadcasting in US. The Asia-Pacific Network plans to broadcast in 8 languages: Mandarin, Cantonese, Tibetan, Burmese, Vietnamese, Khmer, Lao and Korean.

The VOA also broadcasts in these eight languages and VOA devotes considerable effort to providing news about the Asian countries to which it broadcasts. But one of the tenets of the US International Broadcasting Act 1994 is to avoid duplication in US international broadcasting. So an obvious question is to what extent VOA and Asia-Pacific Network will duplicate or complement each other. In an interview with Mr. Richter, believed that room for both VOA and Asia-Pacific Network. Did not believe will overlap, will have own staff, supplementing VOA programming. Said some of the transmitter sites will be that used as VOA, but premature to pinpoint sites because have not been any direct discussions with countries in which these transmitters are located. Also likelihood that will use facilities not currently used by VOA located in various places on Pacific Islands or other countries of Asia that will have an ability and capability of beaming signals into the target area. Studios to be located in Washington but not in same premises as VOA. (16-Mar/VOA Communications World/Ogrizek-Australia/E-DXP-ARDXC/Padula-Australia)

WEST BANK & GAZA Al-Quds Palestinian Arab Radio, which broadcasts from Syria in support of Palestinian factions opposed to Yasir Arafat, announced on 1 April that it would suspend operations on shortwave "until further notice." (BBCM)

YUGOSLAVIA For Z96, **Radio Yugoslavia** services for Asia and Australia are listed:
 1430-1500 Arabic 11800
 1500-1530 Russian 11870 11755

1800-1830 Russian 6100 7165
 1900-1930 Serbian 7230 Sa
 1930-2000 Serbian 7230
 2000-2030 RTS 7230
 (31-Mar/E-DXP-ARDXC/Padula-Australia)

INTRUDERS! EXTERMINATE! EXTERMINATE! Amateur station DJ9KR heads a regular "intruder report" on stations wandering into the ham bands. Here's his summary of broadcast intruders for the month of March:

7000 **IRIB Teheran** Government BC, S9+35dB, // 9022
 7006.4- **Radio Maryja** Catholic Divine Service, POL
 7017.9
 7035 **R. Free Europe** TX-er Intermod. // 7295
 7055 **R. Free Europe** TX-er Intermod. // 7155
 7075 **R. Free Europe** TX-er Intermod. // 7165 and 7255
 7085 **VO the Broad Masses** Government BC, QSY from 7020, ERI
 7090 **VORGAN** Port and tribal languages, is TX-er of UNITA, AGL
 7100 **Golos Rossiye** Voice of Russia, RUS
 7105 **BBC** strong splatters from 7105, G
 14050 **Radio Cairo** Government BC, TX-er IM, EGY
 14150 **Radio Cairo** as b4
 14300 **Radio Tirana** strong harmonic (S9+30dB) from 7150 kHz, ALB
 14310 **Radio Tirana** as b4, S9+20dB, 2f de 7155, ALB

(Uli DJ9KR/Magrone-Italy)

ATTENTION WEBHEADS Helping make the Internet as total a waste of your precious time as possible is your editor's Internet Signal collection web page: <http://www.albany.net/~alucue/>. Have a look and a listen!

PLEASE NOTICE

Tom Sundstrom's complete English schedule appears in a slightly modified form in this issue. While the amount of information is the same, it has been compressed to take up fewer pages and enable us to print more of the regular columns. We're interested in your opinion on this format.

Pirate Radio Report

Chris Lobdell

P.O. Box 146
Stoneham, MA 02180-0146
CompuServe: 75720,253
internet: piradio@usa1.com

Hello and welcome to another edition of the Pirate Radio Report. In this issue, we have a nice station profile from one of the most active of today's pirates, Radio Free Speech. So with further ado, here it is:

Station Profile—Radio Free Speech

Radio Free Speech was created because of a lack of factual information being disseminated to the people of this country by the major corporate media outlets. One point in particular is the constant reference by anchor people and talk show hosts that "this country is a democracy" is a prime example. We are not a "democracy", we are a constitutional republic and there is a world of difference. Yet these mis-statements go unchallenged and citizens are led astray about the true nature of the form of government we have. I once heard a report on PBS that the "government gives us the right to free speech". Let me be very clear, the government does not "give" us any rights. They give us nothing. The government by its very nature is a "taker", not a giver. Well, that did it for me and RFS took to the air to try, in some small way, to set the record straight and give citizens the truth and factual information.

We also knew, in formulating a format for RFS, that a program that pounded on the table about "our rights" and how the government abused us, would be a snoozer, unless it were handled with care and humor. That is why we lean very heavily on funny Ads, songs, skits and commentary with our editorial director, Earl Pitts. We wanted to avoid the extreme image that, say a "Free Radio One" had and offer some substance with the funny stuff. We've tried to keep the formula 85% fun and 15% serious message, to keep it from getting dull and preachy. Just about 95% of the comedy material you hear on RFS is original and originates from the

staff or close friends and relatives of the staff. Speaking of the staff, Bill O. Rights is the station manager and voice on most of the breaks and programs. Farley Q. Fjork is the newsletter editor and performer in many Ads and skits. Uncle Stevie can be heard on "Trucker's Tabernacle", Black Magic Marker and numerous Ads and skits. Bob The Blade is one of our production whizzes who gave us gems like "Ollie North tells the Whole Truth" and "Rush Limbaugh on Radio Free Speech". Sparky Nutz keeps the antenna up and running, finds sites for the transmissions and spends a lot of money on antennas and what he tells me is "frequency grease". Plus there are a lot of other people who simply don't want their names alluded to, but help just the same.

Although we started August 26th, 1995, we still managed to be the station with the second most broadcasts during the past year-46. Only the NAPRS beat us with 64. We are hoping that listeners will be entertained and get factual and valuable information about what their rights are, to offset the crap they are being fed by the major corporate media outlets. Rights are similar to the muscles in our bodies. If they are not exercised and used correctly, they will wither up and fall away. We encourage listeners to send us material: songs, skits, letters and any information they feel would help the cause. We want RFS to be a resource they can't get, anyplace else on the dial. We have also been mindful to listeners who collect QSLs and have made every attempt to fulfill those requests just as quickly as possible. Most of the staff at RFS are listeners too and we don't like those weenies that take your postage and make you wait for a QSL any more than you do. We now use two mail drops: Box 109, Blue Ridge Summit, PA 17214 and Box 452, Wellsville, NY 14895.

I want to thank Bill O. Rights of Radio Free Speech for that great profile. RFS now has

both bumper stickers and a RFS Newsletter available! Just send him 3 32 cent stamps to either one of the above addresses and he'll get yours off soon. Speaking of station profiles, we are all out! So please, if there are any station ops out there reading this, why not take a few minutes to write up a profile on your station? Thanks.

Logs, We Have Logs

Here are a few logs of pirates heard over the past few weeks:

KAOS 6955 USB 0007-0046 UTC 4-14-96
Mr. Ed Show (Rose-VA)

WREC 6955 USB 0134-0206 UTC 4-14-96
Third Ann. Show (Rose-VA)

V of Daleks 6955 USB 0238-0307 UTC 4-14-96
Call In Show (Rose-VA)

Outlaw R. 6955 USB 0314-0334 UTC 4-14-96
Mrs. Outlaw Nude(Rose-VA)

WLIS 6954 AM 1348-1407 UTC 4-14-96
Interval Sigs (Rose-VA)

Cellblock 13 6955 USB 0255-0316 UTC 4-16-96
Income Tax Tips (Rose-VA)

KAOS 6955 USB 0109-0148 UTC 4-21-96
Substance Abuse (Doehner-TX)

Many thanks for Jesse Rose of Virginia and Rick Doehner of Texas for the logs. For those of you who have a FAX, you can fax me 24 hours a day at 617-438-4212 (please mark to

my attention). How about sending me your logs today?

Pirate Radio Directory Now Available!

Yes, the brand spankin new edition of the PIRATE RADIO DIRECTORY is now available from Gerry Dexter of TIARE PUBLICATIONS. This excellent reference guide lists all the stations that were logged last year on the pirate shortwave bands in North America, along with their addresses (where known). Many illustrations are included as well. Edited by veteran authors Andrew Yoder and George Zeller, this is a must for those who take their pirate DXing seriously. The price is \$12.95 plus \$2.00 shipping. The address is: Tiare Publications, Box 493, Lake Geneva, WI 53147. VISA/MASTERCARD orders can be phoned in to: 800-420-0579 between 1300-2300 UTC.

Vote For Your Favorite Pirate Station!

I'd like to do a non-scientific poll. Before the first of July, please submit a list of your three favorite pirate stations. The results will be announced in the August column. So please drop me a fax, postcard or email note today.

Please keep those logs, profiles and tips coming. As Bill O. Rights always says at the end of his shows...SEE YA!

Chris



FOR SALE: Customized Beam Headings (to/from) and distances (MI/KM) to more than 480 WRTH transmitter sites including new Russian republics. ITU Country Codes included. Send your location or coordinates. \$7.50. NASWA Journals '95 complete, \$15.00. WRTH '91, \$6.00; '93, \$7.00; '94, \$10.00; '95, \$13.00 or \$35.00 for all four. Passport to World Band Radio '94, \$9.00; '95, \$10.00; '96, \$13.00 or \$30.00 for all three. All items include shipping (overseas shipping extra). Cashiers check or money order only, please. Al Drehmann, Route 2, Box 3-B, Tryon, NC 28782. Phone (not collect) 704/894-3398.

**NUEVA EMISORA
CENTRAL**
ONDA LARGA LIBRO Kcs.
QUITO-ECUADOR



GUAYAQUIL 

**IV CAMPEONATO MUNDIAL DE
NATAACION**

9745 f/d "Quito Panorama" cd. w/ sked. in 32 ds. (Hoffman). 9415 f/d "Carolina Park" cd. in 35 ds. for a JP rpt. (Hosoya). **Trans World Radio** 12005 via **HCJB** f/d cd. in 10 wks. for a PT rpt. (Field) **Radio Oriental** 4779.8 f/d ltr. w/ cd. and schedule in 2 mo. for an SP rpt. v/s L. Enrique Espin E., Gerente General. (Barto). f/d cd. w/ prepared cd. & ltr. in 48 ds. for a SP rpt., tape and \$1.00 (Clar-NY). **Escuelas Radiofonicas Populares** 5010.3 p/d ltr. w/ stickers in 35 ds. for a SP rpt., tape and \$1.00. v/s Juan Perez Sarimento, Director Ejecutivo. (Clar). **Radio Baha'i** 4950 f/d cd. w/ ltr., pennant and faith info. in 36 ds. for a SP rpt., tape and \$1.00. v/s Wm. Rodriguez B., Coordinador. (Clar-NY) **FRANCE: Radio France International** 5900 & 3985 via Issoudun f/d "Alliss" cd. in 1

NOTES: Mary Jo Ondrechen finally got her long awaited QSL from Yerevan. This was her 6th attempt. She was quite pleased. Great! Mary couldn't attend the Winter SWL Fest because she was giving a final exam. I use to give those...Sam. Glad to hear from you.

mo. w/ schedule and stickers. (Barto-CT)
GABON: Radio Japan 15355 f/d "Sunglow" cd. w/ schedule and calendar in 5 wks. (Barto) 11785 f/d "Wooden Doll" cd. in 25 ds. for \$1.00. (Owsley-CA).
GERMANY: Deutsche Welle p/d cd. in 232 ds. v/s Pete Sluge. (Humenyk-ONT).
GREECE: Voice of Greece 6260 f/d cd. w/ "50th Anniversary" cd. w/ tourist folder in 24 ds. (Glockner-PA)
HAWAII: KWHR 9930 f/d "Antenna Site" cd. in 5 mo. for 3 IRCs. (Brown-OK). same w/ schedule in 57 ds. (Clement). **WWVH** 15000 p/d "Sailboat" cd. in 20 ds. v/s Dean Okayama. (Hoffman).

**RECUERDO
DE
INAUGURACION**
DADO A
ALLI-MICHI
4830 XH2
60 m

**ONDA LARGA
JULIO 15 195**



HOLLAND: Radio Nederland 6020 f/d "Tulips" cd. w/ sticker and sked. in 16 ds. (Loudell-DE)

VERIFICATION SIGNERS: Jerry Klinck has sent in the following: **Voz del Llano** Alcides Antonio Jauregui B., Director. **Radio Vanuatu** Allan Kalfabun. **Radio Coatan** Domingo Hernandez, Director. **Radio Amancer International** Jod. L. Calderon Lithgow, Director.

**Radio
Baha'i**



**1420 KHz mw
4950 KHz sw**

OTAVALO
IMBABURA - ECUADOR

13700 f/d "Flevo" cd. w/ calendar in 5 wks. (Barto). 7300 f/d cd. in 3 wks.
HONDURAS: Radio Copan (Field-MI). **International** 15675 f/d cd. in 315 ds. for ms. v/s Jeff White. (Myers).
HUNGARY: Radio Budapest 5905 and 7295 p/d cd. in 7 wks. w/ schedule. (Barto) 6190 f/d cd. w/ schedule and newsltr. in 51 ds. for 2 IRCs. (Jones-SD). 9850 & 6190 via **Jazsbereny** f/d cd. w/ schedule in 3 wks. (Barto). 3975 f/d "Kettenbrucke Chain Bridge" cd. in 9 wks. w/ pennant. (Barto).

1160 KILOCICLOS



EMISORA DEL SINDICATO
UNICO DE CHOFERES
PROFESIONALES DE
PICHINCHA
1982

JAPAN: Radio Japan 9535 f/d "Mt. Fuji" cd. w/ newsltr., schedule and calendar in 74 ds. v/s H. Kawamoto. (Hoffman-CA).

KOREA, DEMOCRATIC REP. OF: Radio Pyongyang 11335 2 f/d cds. in 10 wks. (Field-MI).

KOREA, REPUBLIC OF: Radio Korea International 7275 "World Heritage" cd. w/ newsltr. and schedule in 17 ds. (Hosoya-JPN).

LESSER SUNDA: RRI Mataram 3223 f/d personal * ltr. w/ f/d prepared cd. in 56 ds. for an IN rpt. and ms. v/s Drs. Hamid Djasman, Kepala. Rcvd. postcards and tourist booklet. (Sgrulletta-NY).

LITHUANIA: Radio Vilnius 5910 f/d cd. w/ schedule in 25 ds. (Glockner-PA).

MALAGASY REPUBLIC: Radio Nederland 15150 f/d "Flevo" cd. w/ calendar in 5 wks.

MALOKU: RRI Ternate 3345 f/d (Barto). orange cd. in 2 mo. for an IN rpt. v/s Abd. L. Kamarudin, Station Manager. (Barto).

MEXICO: Radio Educacion 6185 n/d (to). ltr. in 44 ds. for an EG/SP rpt. & ms. v/s Luis Ernesto Pi Orozco, General Director. Also rcvd. plastic ruler, sked. and art brochure. (Sgrulletta-NY).

NOTES: Donald Aspinall sent in his QSL from Bahrain. Excellent QSL. Glad you enjoy the bulletin...Sam. Greg Myers says he was prompted to write because of a recent rush of QSLs. Even if its one - send it in...Sam. Mike Moran says he will still be sending out reports even though the DX season is almost past. You'd be surprised at some of the great LA and African DX that can be had during the summer...Sam.

Jerry Klinck hope to get his 190 C/V sticker before the DX season is over. Shouldn't be too difficult...Sam.

RADIO NEW ZEALAND INTERNATIONAL



TE REO IRIRANGI O AOTEAROA
O TE MOANA-NUI-A-KIWA

PO BOX 123 WELLINGTON

MOLDOVA: Voice of Russia 17880 via Kishinyov f/d "Friendship House" cd. in 7 wks. (Barto).

MOROCCO: VOA 15410 f/d "Statue of Liberty" cd. in 10 ds. (Owsley-CA).

NEW ZEALAND: Radio New Zealand International 9700 p/d cd. w/ schedule and stickers in 6 wks. (Barto-CT).

NORWAY: Radio Norway International 15170, 13800 and 15345 f/d "Leif Heiberg Myrdam Ceramist" cd. w/ schedule in 2 mo. (Barto). Radio Danmark form ltr. w/ signed cd. in 21 ds. for 2 IRCs. v/s Lulu Vittrup. (Otteson-PA).

OMAN: Radio Sultanate of Oman 9735 via Seeb f/d folder cd. in 6 wks. (Barto).

PAKISTAN: Radio Pakistan 11570.1, 9485 & 13590.3 f/d ltr. w/ schedule in 3 mo. v/s Syed Azmat Ali Shah, Senior Broadcast Engineer. (Barto-CT).

PERU: Radio Horizonte 5020 f/d cd. w/ ltr. * in 3 wks. on my second try for a SP rpt. v/s Rocio Garcia Rubia, Director. * (Field-MI). Estacion Yurimaguas 5046 and 6238 n/d ltr. in 6 wks. for a SP rpt. on my 5th try. v/s Prof. Ramirez Velez, Director. (Field-MI).

PHILIPPINES: Radio Veritas Asia 6020 f/d "25th Anniversary" cd. w/ calendar and schedule in 45 ds. for 3 IRCs. v/s Ms. Cleofe R. Labindao, Audience Relations Officer. (Wilkins-MS). 11715 f/d cd. in 5 wks.

Radio Puyo
HCMD-7



1440 kHz.
INAUGURACION
18 - Mayo - 1984



after a f/up rpt.(Barto).
VOA 11895 f/d cd. w/ sked. in 2 mo.(Barto). 17820 cd. w/ sked., sticker and calendar in 26 ds.(Hosoya-JPN).

POLAND: Polish Radio Warsaw 11815, 7145 and 7270 f/d "Logo" cd. in 5 wks. w/ postcard, schedule and ltr. v/s Rafal Kiepuszewski, Editor English Service.(Barto)

PORTUGAL: VOA 7245 via **Gloria** f/d cd. in 2 wks.(Barto-CT).

RUSSIA: Voice of Russia 5930 f/d "Peoples Friendship House" cd. w/ ltr. in 1 mo.(Hoffman).

SAINT HELENA: ZHH Radio Saint Helena f/d ltr. from Tony Leo after a f/up rpt. for the 94 broadcast.(Rippel).

SARAWAK: Radio Television Malaysia 7145 via **Kuching** f/d ltr. in 5 wks. w/ schedule. v/s A. Minoi, Human Resources Development Section.(Barto-CT).

SLOVAK REPUBLIC: Radio Slovakia 5930 f/d cd. in 19 ds.(Glockner-PA).

SOUTH AFRICA: Channel Africa 15240 f/d cd. w/ pen in 2 mo. for \$1.00.(Clement-GA). f/d cd. w/ decal and magazine in 61 ds. for 2 IRCs. v/s Kathy Otto.(Otteson-PA). **Radio 2000** 3320 f/d cd. in 6 wks.(Field-MI). **Radio Orange** 3230 f/d cd. in 6 wks.(Field-MI). **Channel Africa** 9585 and 11900 f/d "Capetown" cd. in 6 wks.(Field-MI). **Trans World Radio**

11730 f/d cd. in 6 wks.

* (Field-MI). **Voice of America** 9675 via **Meverton** f/d "Monitoring Room" cd. in 6 wks.(Field-MI). **BBC** 6180 via **Meverton** f/d "Sunset" cd in 6 wks.(Field-MI).

SPAIN: Radio Exterior de Espana 9540 f/d



QSL

CERTIFICADO DE SINTONIA

A *Richard A. D'Angelo*
 Wyoming, PA

MUCHAS GRACIAS POR SU INFORME DE RECEPCION

TENEMOS EL GUSTO DE CONFIRMAR QUE LA EMISORA SINTONIZADA ES LA NUESTRA:

LA VOZ DE ALPHA 66
 De 10.27 AM del 1988

Diego A. Medina
 Dr. Diego A. Medina

Miguel 4923 Gerin Pardo Molina, Director. **Radio CIN** 11830 Domingos Tinoco. **Radio Brasil Central** 4985 Sergio Rubens Da Silva. **Radio Aparecida** 11855 Joao Climaco Cabral, Director General. **Radio IPB-AM** 4895 Pastor Jose Adao Hames. ...via PLAY DX.....Sam.

VERIFICATION SIGNERS: Radiodiffusion Congolaise

4765 Mr. Zaou-Mouanda, Director. **AMR Radio Lira** 15460 Rosaura Barrantes V., Secretaria. **Missionwerk Werner Heukelbach** 15270 via **Radio Intercontinental** W. Heukelbach. **Radio San**

cd. w/ 50th Anniversary sticker and schedule in 48 ds.(Glockner-PA). 9540 f/d "Studio" cd. w/ sticker and schedule.(Hoffman-CA).

SURINAM: Radio Apinte 4991 f/d personal ltr. in 114 ds. for ms. v/s Ch. Vervuurt, General Manager. Travel brochures were rcvd.(Sgrulletta-NY).

SWAZILAND: Trans World Radio 9500 f/d "African Continent" cd. in 55 ds. for \$1.00. v/s L. Stauroupoulco.(Owsley-CA).

SWEDEN: Radio Sweden 15425 f/d cd. in 9 ds.(Glockner-PA).

TAIWAN: Voice of Free China 7130 and 9610 p/d "Bee" cd. w/ schedule and

Khabarovsk
 V. I. Lenin Street

NR0574 1988 CODE/COE POSTAL 11111111

Mr. Kusalik, SCF 907 DCRN7 117-094.19.30, KKKDDXXX

Our Russian Dept. has verified that their program was broadcast from Khabarovsk at the time you stated:

Dec 24, 1992 0803-0920 UTC on 9.560. This is purchased time on an existing transmitter.

The FEBC office in Russia is:

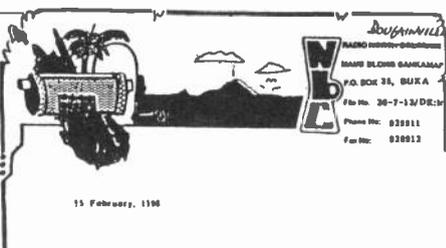
FEBC
 PO Box 2129
 Khabarovsk, 690021 RUSSIA

Edward Kusalik
 2117 10A Street
 Coaldale, Alberta
 T1M 1B6
 Alberta
 CANADA

sticker in 3 wks. (Barto-CT).
THAILAND: Radio Thailand 11905 f/d
 "Lotus" cd. in 53 ds. for 3 IRCs
 w/ schedule. (Wilkins-MS). p/d cd
 in 59 ds. for \$1.00. (Clar-NY).

USA: Voice of America 15265 via
Greenville f/d "Sunset" cd. in 6
 wks. w/ schedule. (Barto). 19379
 f/d cd. in 1 mo. (Barto). 11955
 f/d "Atlanta" cd. in 6 wks. (Bar-
 to-CT). **Radio Telefis Fireann**
 12160 via **HWCR** f/d "Dublin" cd.
 in 7 wks. w/ schedule, decal and
 personal ltr. v/s Wesley Hoyd, Dir-
 ector of Broadcasting Developments.
 (Barto). same w/ sticker in 19 ds.
 for \$1.00. v/s Bernie Pope. (Owsley-
 CA). **WSHB** 7535 f/d "Transmitting Fa-
 cility" cd. w/ ltr. and schedule in
 88 ds. v/s Judy Cooke. (Hoffman-CA).
WGTC 7355 f/d cd. in 6 mo. w/ per-
 sonal note that the station is tak-
 ing an interest in doing a SWL DX
 program. Marie take note. (Barto-CT).

USA (Pirates): Interstate 44 6955 f/d
 sheet in 5 wks. for 2 IRCs to the
 Merlin drop. (Ondrechen-MA). **Big**
Johnson Radio 6955 f/d sheet in 20
 ds. v/s E. Normus Johnson. 90-100
 watts! (Kusalik-ALB). **Voice of the**
Runaway Maharishi 6955 f/d cd. in 7
 drop. (Ondrechen-MA). **Radio Mirage**



15 February, 1996

STATION: RADIO BOUGAINVILLE
 FOB: JOHN L. SCHULLETTA
 332 BULLET HOLE ROAD
 HARPOAC, NEW YORK 10841
 UNITED STATES OF AMERICA

Thank you for your reception report. We are pleased to verify your
 reception of our transmission on 31 December, 1985 from 12:47 hours
 to 12:48 hours on 3.215 kHz. With a power of 10.73 watt/beam.

Thank you for your lovely postcard, family photo and brochures of
 your country.

We have now changed our station identification (Radio North Solomon
 to Radio Bougainville) on the same band as stated above. Since we
 resumed broadcast from new location on 15 December, 1985, we have
 also received other reception reports such as yours from America,
 Finland and so on.

We look forward to hearing from you again soon and we thank you
 for your interest in listening to Radio Bougainville.

Yours sincerely,

John Schulletta

D V KUMARIA
 Prov. Prog. Manager
 Radio Bougainville

7 wks. for \$1.00 to the Providence
 (NA relay) 6274.4 f/d cd. w/ sheets
 and ltr. for a rpt. to the Wupp-
 ertal address. v/s Ian Page. The
 addr: Derek Taylor, 12 Dorman Rd.
 Preston PR2 6AS, UK. (Berg-MA).

RADIO VANUATU

Q.S.L.

N
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B
E
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V
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C
E



Big Orange (1 km) from Ambrym Island,
 used as village to village communications
 and in certain circumstances

To JERRY KLINCK
 of U.S.A

I AM PLEASED TO VERIFY YOUR
 RECEPTION OF THIS STATION

AT 1644.1700 HZ

ON 1189, 3045, 7260 KHz

for Akafaban
 For RADIO VANUATU
 P.O. Box 49,
 PORT VILA, VANUATU

VERIFICATION SIGNERS: **La Voix du Sahel** 5020
 Souley Boubagar, Director. **BBC-Oman** 6030
 David Plater, Senior Transmitter Engi-
 neer. **Radio San Francisco Solano** 4750 Rev.
 Padre Manuel J. Rosas C. Vicario Parro-
 quial. **Radio Luy y Sonido** 6473 Suor Maria
 Milagros, Secretaria. **La Voz de la Selva**
 4825 Mrs. Julia Jauregui Rengifo, Direc-
 tora. **AIR Shimla** 3223 P.K. Sood, Assis-
 tant Station Engineer. **RRI Padang** 4003
 Marlis Ramali. **RRI Palembang** 4856 Drs. H.
 4932 H. Tomo BA., Head of the Broadcast-
 ing Section. **RRI Yogyakarta** 5047 Drs. H. Hamdan
 Sjahbeni, Station Manager. **RRI Mataram**
 3223 Harnama, Ketua Dewan Pimpinan Harian. **RRI Samarinda** 3295 Marthin Tapparan, Dir-
 ector. **Radio Libreville** 4777 A. Ran-
 aud Renombo, Engineer... via PLAY DX.

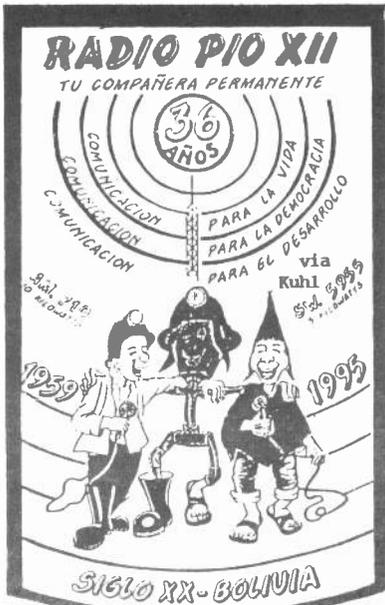
Mursjid Noor, Kepala Stasiun. **RRI Surakarta**
 3223 Harnama, Ketua Dewan Pimpinan Harian. **RRI Samarinda** 3295 Marthin Tapparan, Dir-
 ector. **Radio Libreville** 4777 A. Ran-
 aud Renombo, Engineer... via PLAY DX.

This will confirm your reception of
 our interview about shortwave
 listening in the classroom. with
 Rich McVicar on the January 27,
 1996, edition of the DX Partyline
 program from radio station HCJB
 in Quito, Ecuador. Our interview
 was heard around the world on
 shortwave. Your report was
 appreciated very much.



Name: *Paul Mc Dowell*
 Date: *Jan 25 1996*
 Time: *0454 UTC*
 Frequency: *3745 kHz*
 Verified By: *Ryan Anderson*
 CLEAR: *RXN PENDER*

Almonte is the hometown of
 Dr. James Naismith, the
 inventor of basketball. A
 commemorative postage stamp
 was issued here in 1991 for the
 100th anniversary of this
 international sport. Like radio,
 basketball spans the globe



from the Stoneham drop. (Lobdell-MA). **XEROX** 6955 f/d "Sam Barto" cd. in 3 wks. (Wolfish-ONT). **Zeppelin Radio Worldwide** 7423 f/d blue cd. in 3 wks. for an 87 reception. (Wolfish). **Radio Perfekt** 6955 via **NAPRS** f/d German cd. w/ form ltr. in 2 mo. for \$1.00. v/s Mr. Charly. (Kusalik). **WREC Radio Free East Coast** 6955 f/d ltr. in 33 ds. w/ personal ltr. (Owsley-CA). **Partial India Radio** 6955 p/d sheet in 1 wk. via the Stoneham drop. (Lobdell-MA). **Radio Free Euphoric** 6099.8 f/d "Captain Ganja" cd. in 96 ds. for ms. (D'Angelo-PA)...What no samples????...Sam. 6100 f/d cd. in 3 mo. for \$1.00. via the Wellsville drop. (Ondrechen-MA). **WRV Radio Virus** 6958 f/d green cd. w/ sticker in 4 mo. (Wolfish). **Outlaw Radio** 6955 f/d cd. w/ pirate skull in 4 mo. for \$1.00. (Owsley). same in 4 mo. for \$1.00 via the Providence drop. (Owsley-CA). 6957 cd. in 69 ds. (Stephens-AL). **World Parody Network** 6958 f/d

VERIFICATION SIGNERS: **Taiik Radio** 4635 Miss Raisa Muhutdinova, QSL Secretary. **Radio Moundou** 5286 Dingantoudji N'Gana Esaie, Chief Technician. **YVTO** 5000 Jesus A. Escalona, Jefe del Servicio. **FEEC** 11995 Mrs. J. Madsen, Account Credit. **Radio Alpha** 5010 Mr. Lee Wai Meng, Manager

and **Omega** 7230 E. Reznikova, Director. **World** of Shortwave Transmissions. **Trans World Radio-Meyerton** 15435 B.M. Kapings. **Malawi Broadcasting Corporation** 3381 P. Chinseu. **Radio Myanmar** 7185 U. Ko Ko Htway, Director of Radio. **ZLXA** 3935 Brian Stokoe, Program Supervisor....via **PLAY DX**....Sam.

| | | |
|--|-----------|--|
| QSL | POST CARD | |
| Dear <u>Mr. Edward Rausch</u> Thank you for your reception report of <u>January 5 1996</u> | | |
| We are pleased to confirm that the station you heard is Radio Ulaanbaatar , operating on <u>7530</u> kHz at <u>1930 20K</u> UTC. | | <u>Edward Rausch</u> <u>19 Vanderberg Place.</u> <u>Cedar Grove,</u> <u>NJ 07009-1039</u> <u>USA</u> |
| Your further reports as well as comments on our programs will be much appreciated. | | |
| RADIO ULAANBAATAR CPO Box 365, Ulaanbaatar 13, Mongolia | | |

sheet in 39 ds. w/ newsltr. and info. sheet. (Kusalik). f/d "Kepler Series Cat" sheet in 8 wks. w/ coffee mug w/ pirate picture on it for a rpt. to the Huntsville drop. (Ondrechen). same w/ newsltr. in 1 mo. (Field-MI). **Radio Titanic International** 6955 via **NAPRS** f/d "20th Anniversary" cd. in 4 mo. for a log in the Pitate Pages. (Wolfish). f/d "Pumpkin" cd. in 5 mo. for a rpt. to the Wuppertal drop. (Lobdell-MA). **Radio Mindwebs** 7415 f/d sheet in 3 wks. (Wolfish-ONT). f/d "Aliens" sheet. (Kusalik). **Voice of the Dead** 6955 via **NAPRS** f/d cd. in 27 ds. for \$1.00. (Ondrechen)

RADIO FREE EUPHORIA QSL# 102



Richard A. D'Angelo was turned on and tuned in to our euphoric smore signal on the delicious date of 11-19-95 from the tripped out times of 1401 - 1450 UTC on the fresh-frequency of 6099.8 A.M.

Captain Ganja

VATICAN: **Radio Vatican** 4005 and 4015 f/d cd. w/ 19 different QSL cds. and 20 stickers. (Barto-CT). 9605, 6095 and 7305 f/d cd. in 5 wks. w/ schedule. **WEST BERLIN: Deutsch-** (Barto). **landfunk** 6005 f/d cd. in 5 mo. w/ stickers. (Field-MI). f/d cd. w/ stickers and schedule in 5 wks. (Barto). **WEST IRIAN: RRI Blak** 6152.8 f/d ltr. w/ schedule in 2 mo. v/s Buca Latuperissa, Kepala Seksi Siaran. (Barto-CT). **ZAMBIA: Radio Christian Voice** 4965 p/d ltr. in 5 mo. (Barto-CT). Best of QSLing.....SAM

Contributors' Page

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LOGGINGS CONTRIBUTORS-NEXT DEADLINE IS THE 10TH OF THE MONTH

The following members contributed loggings:

| | |
|------------------------------------|--|
| Brian ALEXANDER, Mechanicsburg, PA | NRD-535D 100' LW |
| Jerry BERG, Lexington, MA | R8 R390A HQ180A 150' LW |
| Brian BOULDEN, CA | |
| Erik BUENEMAN, Hazelwood, MO | ATS-803A homebrew antenna |
| Peter CARD, Middletown, RI | Icom R-71A |
| James CLAR, Rochester, NY | R8 FRG-8800 Eavesdropper dipole |
| Rich A. D'ANGELO, Wyomissing, PA | R8 HF150 AD Sloper 100' LW |
| Ulis FLEMING, VA | Kenwood TS50 Loop antenna |
| Anita GLOCKNER, Allentown, PA | Grundig Yacht Boy telescopic antenna |
| Bob FRASER, Cohasset, MA | Sony ICF-2003 ICF-SW100S |
| Bob HILL, Natick, MA | Sony 2010 w/ KIWA filters, Sony AN-1 |
| Ron HOWARD, Carmel, CA | NRD-535D vertical Dymak |
| Marv KAMINSKY, Flanders, NJ | NRD-535D random wire |
| Ben KREPP, Chamberlain, ME | R8-A 2010 60m dipole beverages |
| Marie LAMB, Brewertown, NY | HF-150 DX-392 MFJ-16010 60m LW Loop |
| Harold LEVISON, Philadelphia, PA | R8 R70 YB400 |
| Steve C. MARTIN, CA | |
| William McGUIRE, Cheverly, MD | DX-380 |
| Daniel McCARTHY, Calhoun, GA | R-70 6' wire |
| Jim MOATS, Ravenna, OH | DX-440 48' indoor dipole |
| Ken MacHARH, Quito, ECUADOR | Sony 2010 |
| Mark MOHRMANN, Coventry, VT | Sony ICF-2010 200/300' LW's |
| Kevin MURRAY, Holliston, MA | R8 NIR 10 Beverages 60/90m loops |
| Ed NEWBURY, Kimball, NE | WJ-1000 R8 60'Sloper 20' loop |
| Wells PERKINS, Scotch Plains, NJ | |
| Ed RAUSCH, Cedar Grove, NJ | R5000 Sony 2010 MFJ-959 Eavesdropper |
| Chuck RIPPEL, Cornland, VA | R8A Lowe Europa R390A LW's |
| Doug ROBERTSON, Oxnard, CA | FRG-8800 FRT-7700 DX-302 D1875 ATS-808 |
| Betsy ROBINSON, Clinton, TN | Sony 2010 Indoor antenna |
| Mike RYAN, Bangkok, THAILAND | |
| Giovanni SERRA, Rome, Italy | NRD-525 AD Sloper |

Thanks go out to the thirty-one members who took the time to send in and share their loggings this month. It's your contributions that help make the Journal the best hobby publication around. For our non-contributing members—it'll only take a few minutes to jot down a half-dozen of your best loggings and send them in. If you need log report forms send me an SASE and I'll send you several. Your contributions will be greatly appreciated!

Remember, you can also save yourself some postage each month by sending me your QSL information and Scoreboard column totals. I'll forward your information on to editors Sam Barto and Jerry Lineback.

73's till next month



Tropical Band Loggings

Sheryl Paszkiewicz
P O Box 152
Manitowoc, WI 54221-0152

2390nf USA WWCR 4/19 0154 EG Life of Riley pgm, ID, UPI nx (Lamb-NY)
4/13 0926 EG Brother Stair pgm, ID, sked (Robe-CA) 3/23
0922 Jimmy Durante comedy routine, 0930 nx, exc (Levi-PA)
3/19 0230 EG rel pgm, needle pegger (McCa-GA) 3/16 *0200-
0530+ nx, Golden Age of Radio (Alex-PA)

2460t BRAZIL R Alvorada 4/10 0901 ads, promos, ballads, ID? (Mohr-VT)

2460 USA WWCR 3/9 0559* test w/ads, call in, tnx WOR (Alex-PA)

2480h DOM REP R Revelacion 3/10 0044 EZL rel, drama, ID, TC (Clar-NY)
3/9 0154* SP tlk, IDs, lite instl, NA (Alex-PA)

2680 COLOMBIA unid 3/15 1025 Todelar net nx, R Sonorama harm? (Mohr)

3000 UNID 3/23 0904 LA ballads, no ID, jingles, "siete" all I cd
get after an hour (Mohr-VT)

3140h DOM REP R Amanacer 3/8 1022 rel pgm, ID, 1570x2 (Mohr-VT)
3/22 0120 rel mx, tlks, EG 0330 on 3/23 (Alex-PA)

3180h USA KXSP 4/13 0909 ranchera mx, 1590x2 (Robe-CA)

3220 ECUADOR HCJB 4/13 0901 lang chorus, instls, tlk (Robe-CA)

3225 COSTA RICA REE 3/4 0400* pops, IDs, TC, nx abt Cuba (Lamb-NY)
3/2 0100 prob nx in SP, cmtry, good (Levi-PA)

3230 SOUTH AFRICA R Orange 3/9 0435* EG/lang anmts, pops, ID (Alex)

3285.1 ECUADOR LV del Rio Tarqui 3/14 1008 anmts, ads, TC, ID (Mohr)

3300 GUATEMALA R Cultural 3/16 1029 SP tlks, poor (Newb-PA) 3/2
0345 rel tlk, mx, tlk (Levi-PA)

3360 GUATEMALA LV de Nahuala 1100 lang ID, marimba, fair (Robi-TN)

3365 NEW GUINEA R Milne Bay 3/31 1100 lang ID, ramhorn, organ (Robi)

3369.9 UNID 0258 kids chanting, sounds like lang, not PT, plus 0314*
is not consistent w/West Afr. Continued thru top of hour, no
ID, 0311 IS? & theme mx, prob ID, sounds rel, 0318* (Ripp-PA)

3374.9 ANGOLA RN 4/6 0017 ID, EG & PT pops, tnx Clark in Cumbre (Flem)

3380 GUATEMALA R Chortis 3/28 1100 mx, rel tlk (Robi-TN)

3905 IRIAN JAYA RRI Merauke 3/10 1052 pops, march, IS, ID, prob nx
fair, severe ham QRM--some guy in Batavia, sounded like he was
in my living room (Clar-NY)

*3940 HONG KONG RTVHK 4/7 1030 EG tlks, threshold lvl (Hill-MA)
4/4 pres 1030 wind & visibility cx for sea race (Howa-CA) 4/4
1031 Brit accent wx, TC, anmts, tnx Clark (Murr-MA)

3945 VANUATU RV 4/3 1031 FR anmts, Elton, Sam Cooke, ID, nx (Mohr-VT)

3976 KALIMANTAN RRI Pontianek 3/24 1039 tlk, ment Pont, Koran,
gamelan mx (Murr-MA)

4003.2t SUMATRA RRI Padang 3/24 1113 Koran, YL tlk, weak (Murr-MA)

4530h USA WLAC 4/5 0916 Road Gang pgm, ID 0930, 1510x3 (Mohr-VT)

4606.4 IRIAN JAYA RRI Serui 3/30 1123 chorus, chime, anmts (Murr-MA)

4665t CLAND Vo Mojahed 0333 tlk, ME mx, instl, jumping all over from
bubble jammer (Alex-PA)

4680h USA WQXR 3/24 2100 baseball game 1560x3 (Perk-NJ)

4753.5 SULAWESI RRI U-P 3/27 1220 IN tlks, clas mx, good (Newb-NE)

4765 BRAZIL R Integracao 3/12 0150 tlk, TC, IDs, ads, six (Clar-NY)

4770 NIGERIA R Nigeria 3/25 *0430 NA, pledge, ID, TC, prayers (Lamb)
3/31 0435 EG tlk abt programming (Newb-NE) 3/3 2248 EG pops &
soul, IDs, nx, sked, NA (Clar-NY)

4775 SWAZILAND TWR 3/25 0408 GM chorus, rel tlk, IS (Lamb-NY) 3/2
0407 as unid, GM tlks, chorus, good (Levi-PA)

4779.8 ECUADOR R Oriental 3/30 1030 anmts, HC mx, IDs (Alex-PA)

4779.8 GUATEMALA R Coatan 3/28 1215 tlks, rel folk mx (Newb-NE) 4/t
0027 folk mx, many IDs as R Coatan, 1 R Cult Coatan (Flem-NY)

4783 MALI RTM 3/20 0655 FR tlk, ID 0700, p-t (Buen-MO)

4799.9 GUATEMALA 3/27 1228 tlk in Indian lang, p-f (Newb-NE)

4800 LESOTHO RL 3/19 *0200 NA, mx, nx, rel pgm, fair (Card-RI)

4815 CHINA CRI 3/17 *2300 IS, CH ID, RS pgm (Hill-MA)

4819.7 HONDURAS HRVC 3/27 1233 EZL mx, rel instls, fair (Newb-NE)

4820 RUSSIA logging in March issue should be R Rossii (Ryan-THAI)
4825 GUATEMALA R Mam 4/6 2325 ID, marimbas, het (Flem-NY)
4825 RUSSIA Mayak 3/4 2015 IS, nx, pops //4930 (Ryan-THAI)
4835 GUATEMALA R Tezulutlan 1140 Indian lang, ID, addr, EG ID offer-
ing QSLs & "little flags." (Flem-NY)
4838.6v MAURITANIA ORTM 3/17 0635 Koran, folk mx, drifting (Alex-PA)
4840 UNID 3/10 1040 comunicados, ID, promo w/echo, rel (Clar-NY)
4845 BOLIVIA R Fides 3/24 0504* anmts, pops, tlk, ID (Alex-PA)
4860 RUSSIA R Rossii 3/4 *2000 IS, ID, nx, etc (Ryan-THAI)
4870 BENIN ORTB 3/19 0120 tlk, TCs, IDs, pops, tribal mx (Clar-NY)
3/27 2300* drama, mx, NA, fair (Card-RI)
4874.6 IRIAN JAYA RRI Sorong 3/13 1231 Kang Guru II R EG pgm (Howa-CA)
4875 BRAZIL R Roraima 3/4 0017 futbol, IDs, list stns (Lamb-NY)
3/3 2345 shouts, sfx, IDs, ment Boa Vista, fair (Clar-NY)
4890 PAPUA NBC 4/14 0835 C&W, ballads, native mx, ID, QRN (Robe-CA)
4/1 2030 island mx, anmts 2100, consistent in afternoon (Ripp)
4905.5 COLOMBIA Ecos del Orinoco 3/25 0455* ballads, ID, anmts (Serr)
4910 AUSTRALIA VL8T 3/31 2130 morning nx, good, tnx Hill (Ripp-VA)
4914.5v PERU R Cora 4/13 0814 tlk, mx, sfx, ID, freqs (Robe-CA)
4915 BRAZIL R Anhanguera 3/27 0106 phone nos, IDs //11830 (Clar-NY)
4915 GHANA GBC 3/31 2345 EG anmts, ID, freq, fair (Newb-NE)
4920 ECUADOR R Quito 3/16 1021 ID, folk mx, fair (Newb-PA)
4925 BOLIVIA R San Miguel 3/27 1005 ID, TCs, anmts (Mohr-VT)
4925 SUMATRA RRI Jambi 3/30 1056 ME mx, tlk, Koran, weak (Murr-MA)
4930 HONDURAS R Int'l 3/28 1210 2M tlking in SP, good (Newb-NE)
4940 VENEZUELA R Amazonas 3/3 2359 LA pops, slogans, IDs (Lamb-NY)
4945 BOLIVIA R Illimani 3/29 0114 pol cmtry, interview (Serr-IT)
4949.8 ECUADOR R Bahai 3/30 1030 Quechua tlk, HC mx (Alex-PA)
4950 ANGOLA RN 3/4 0035 pops, tlk abt Cath church, ID (Lamb-NY)
0130 PT mx, anmts //3375 (Card-RI) Tnx alot for writing--sp
4955 COLOMBIA RN 4/15 0454* mx, tlk, ID, chimes, NA twice (Lamb-NY)
3/25 0341 tangos, anmts, ID, LA songs (Serr-ITALY)
4960 ECUADOR R Federacion 3/22 0335* lang/SP tlk, speech, pops,
folk mx, off w/usual bouncy march tune (Alex-PA)
4965 ZAMBIA Christian Vo 3/8 2025 rel songs, anmt, mx 2034* (Berg)
4965.9 PERU R San Miguel 3/13 1032 Andean mx, ID "en Cusco" (Mohr-VT)
4985 BRAZIL R Brasil Central 3/2 0203 tlk, poss nx, IDs, tlk (Clar)
4990 CHINA Hunan PBS 1300 TP, ID, CH tlks, 1600* (Ryan-THAI)
4995.8 PERU R Andina 3/12 0133 pol tlk, IDs, ads, promo, sfx (Clar-NY)
5005 NEPAL R Nepal 3/4 1145-1215 exc, poss RID QRM (Ripp-VA)
5009.5 MADAGASCAR RM 3/17 *0257 xylo IS, chorus, FR anmts (Alex-PA)
5009.5 UNID 2/29 0115 FR tlk, hilife, TCs, poss ID, Madagascar? (Clar)
5010t BRAZIL R Copacabana 3/27 1240 PT pops, tlk, fair (Newb-NE)
5019.6 COLOMBIA Ecos del Atrato 3/13 0400* anmts, phone calls, Caracol
promos, ads, good (Alex-PA)
5019.6 NIGER LV du Sahel 3/31 2148-2215* FR tribal vcl, ID, nx (D'Ang)
3/30 2245 Afr mx, FR ID, tlks, NA 2302* (Kami-NJ)
5023.1 BHUTAN BBS 4/2-3 1415 EG nx, now off winter sked (Howa-CA)
5033.4 CENT AFR REP RTV Centafricaine 3/23 2145 tlk, mx, TP (Serr-IT)
5035.1v BRAZIL R Aparecida 3/3 0128 rel, rosary, ID, pop mx break,
gospel reading (Serr-ITALY)
5047 TOGO Rdf Togolaise 3/20 0630 FR tlk, upbeat mx, p-f (Buen-MO)
3/23 0513 Afropops, Horoscope, pops, ID (Serr-ITALY)
5050t INDIA AIR Aizawl 3/21 *1130 IS, 1230 EG nx, 1430 EG nx, chimes
lcl pgms 1630* (Ryan-THAI)
5077 COLOMBIA Caracol 3/30 0332 ads, PSAs, sports, mx (Buen-MO)
5163 CHINA CNR 3/10 1158 CH tlk, TP, tone, ID, nx //5320 (Clar-NY)
5290 RUSSIA R Rossii 3/3 1900 ID, ballads //4820 (Ryan-THAI)
5645.6 PERU LV de San Antonio 3/28 0906 Andean mx, TCs, ID (Mohr-VT)
5766.9t PERU Estacion Soritor 4/5 0302* anmts, huaynos, no NA at s/off
back at 0430 recheck (Alex-PA)
5770 NICARAGUA R Miskut 3/17 0006* pops, C&W, IDs, poor (Clar-NY)
3/30 1138 anmts, romantic mx, folk mx (Alex-PA)
5890 USA R Marti 3/9 *0707 pops, IDs, tnx WOR (Alex-PA)

Tnx to all contributors. Reporters from 11 states & 2 countries. Next
deadline here is May 17 for the June issue.

International Band Loggings

Wallace C. Treibel
357 N E 149th Street
Seattle, WA 98155

- 5900 ECUADOR HCJB Quito in EG 1040, "Musical Mailbag", relig song, ID (Newbury NE 3/16)
- 5910 LITHUANIA R Vilnius in EG 0055, nx, ID, mx, relig & political nx (Glockner PA, Newbury 3/16)
- 5920 CROATIA Hrvatski R in EG/CR 0800, TP, ID, EG nx, wx fest, lite mx, into CR (Serra ITALY 3/24)
- 5930 CZECH REPUBLIC R Prague in EG 0200, IS, nx, Czech Rep history, g (Card RI 3/15)
- 5965 SO AFRICA R Oranje in EG/Vern *0441, ezl amx, ID's, ads, jingles, exc/f (Alexander PA 3/10)
- 5965 CANADA BBC relay Sackville in EG 1130, drama "House of Cards", ID, g (Fraser MA 3/19)
- 59795 MALAYSIA RTM Kota Kinabalu Sabah in EG 1400, clear ID, TC, pop mx (Howard CA 3/30)
- 5990 ROMANIA RRI Bucharest in EG 0200, nx re Bosnia reconstruction costs, f (Pasquale PA 4/6)
- 5995 test? SAO TOME VOA relay with fair signal *0500, heavy QRM from Cuba 6000 (Rausch NJ 4/8)
- 6005nf ITALY RAI in IT 0100, nx in IT, ID in EG, followed by mx pgm (Kaminsky NJ 2/26)
- 6020 NETHERLAND ANTILLES R Nederland relay in EG 0010, pgm re comedy on TV (McGuire MD)
- 60251 BOLIVIA R Illimani in SP 0200, sports coverage, Andean mx, f, //4945 ('lexander PA 3/23) in SP 0929, Public health ancmnt from the "Gobierno Nacional", ID, Andean mx (Mohrman VT 3/27)
- 6035 test? SAO TOME VOA relay in EG 2150-2230*, nx magazine, mx, ID, //11965 (Rausch NJ 4/7)
- 60404 BRAZIL R Clube Paranaense in PT 0930, TC for 6 AM, ads, promos, ID (Mohrman VT 3/8)
- 6060 ARGENTINA R Nacional in SP 0955, nx, taped reports, sports, ads, promos, ID (Mohrman 3/8)
- 6090 CHILE R Esperanza in SP 1030, Christian mx, ID, TC, relig tlk, f-p w/QRM (Clar NY 3/17)
- 6095 PORTUGAL RDPI in EG 0211, ethnic mx, chorus w/string instruments, //9570 (Newbury NE 3/18)
- 6100v ALBANIA R Tirana in AL 0824, ID, "Hit Parade" w/YL DJ, fcy drift (Serra ITALY 3/31)
- 6120 CANADA R Japan relay in EG 1135, rpt on world's public water systems, g (Fraser MA 3/14)
- 6135 SWITZERLAND SRI in EG 0100, IS, world nx, ID, "Newsdesk", g (McGuire MD 3/17)
- 6145 GERMANY Deut Welle in EG 0105, rpt on files re former East Germans, g (McGuire MD 3/18)
- 6150 BRAZIL R Record in PT 2224, futebol w/lots of "goooooooooals", //9505, 119655 (Hill MA 3/24)
- 6175 COSTA RICA Faro del Caribe in SP 1053, relig tlk, ID, ezl relig mx, f, //5055 (Clar NY 3/17)
- 6205 MOLDOVA R Dneister Int in EG *2130-2200*, "News Magazine", ID's, IS, folk mx, QTH, fqys, sked (Serra ITALY 2/26, Card RI 3/6)
- 6280 LEBANON V of Hope in lang 2235-0320+, contin relig mx, lcl mx, //9960 (Alexander PA 3/7-8)
- 7085nf ERITREA V of the Broad Masses of Eritrea in lang *0326, ex 7020, s/on w/guitar IS, tlk, mx by Paul Simon, lcl folk mx, weak sig, no apparent ID-so tentative logging (Alexander PA 3/9)
- 7090 ANGOLA A Voz do Resistencia de Galo Negro (t) in PT 1944, nx re USA, poss ID (Serra 3/20)
- 7105 BOSNIA HERCEGOVINA RBH in lang 0055-0200+, lcl pops, 5 pips, ID on the hr, tlk in lang, lcl folk mx with M East flair, f with CW QRM (Alexander PA 3/31)
- 7110 ETHIOPIA R Ethiopia in lang 0337, lcl folk mx, tlk, f, //97051 (Alexander PA 3/13)
- 71431 PERU R Altura in SP 0245-0335*, ID's, huaynos, closing ancmnts, NA, wk (Alexander PA 3/23)
- 7160 ALBANIA R Tirana in EG 0240, pgm on Albanian history, lcl mx, g (McGuire MD 4/2)
- 7205 GREECE VOA relay Kavalla in EG 0205, nx, "VOA Today", f-p (Moats OH 3/25)
- 72152 ANGOLA RN de Angola in Vern 2203, vocal by OM, tlk, p, //95348 (Hill MA 3/24)
- 7240 AUSTRALIA RA in EG 1028, science pgm, promo, class mx, //9580, 9860 (Buenean MO 3/10)
- 7265 test? SAO TOME VOA relay in FR *0530, EG ID, AF nx, mailbag, mx request pgm (Rausch NJ 4/8)
- 7270 MALAYSIA RTM Kuching (Green Network) in lbar. 1410, DJ w/nice native mx after nx, strong clear sig for 10 kw xmtr, power increase?, //6050 p/under co-chan CPBS China (Treibel WA 4/10)
- 7285 THAILAND RT in VT *1100, EG ID at s/on, VT to 1115, then Cambodian (Newbury NE 3/16)
- 7296 test? SAO TOME VOA relay in EG *0300, IS, ID, "Daybreak Africa", nx, wx, sports (Rausch NJ 4/8)
- 7325 UNITED KINGDOM Midwest Radio, County Mayo, Ireland via BBC in EG *2357-0200, special St Patrick's Day best, nx, mx, greetings, tlk in Irish (McCarthy GA, D'Angelo PA, Perkins NJ 3/18)
- 7335 BULGARIA R Bulgaria in EG 2030, pgm on business, BG banking, //9770, g (Fraser MA 3/11)
- 7390nf ERITREA V of the Broad Masses of Eritrea in Vern *0324, ex 7380, guitar IS, tlk in Tigrinya? lang lcl guitar mx, horn mx, //7085, both fqys w/low audio (Alexander PA 3/9, Hill MA 4/4)
- 74601 test HONDURAS R Copan Int in SP 0155-0403*, testing w/continuous lite mx & vcls, ID's, s/off ancmnt in EG, fcy drifted to 74598, f but rty QRM & splatter from station on 7465 (Alexander PA 3/13)
- 8000 nf? ERITREA? V of Sudan in AR? 1733-1916*, anti-Government xmtr presumably based in Eritrea. AR mx, long speeches, ment Sudan many times, ID "ldha in saw al Sudan...", //90253, both fqys weak (Alexander PA 3/17, Serra ITALY 3/31)
- 9275nf? ICELAND Ríkisutvarpíð Reykjavík in IC 2323, YL/OM tlks in lang, f (Pasquale PA 3/7)
- 9325v NO KOREA R Pyongyang in EG 1749*, ID, ancmnts, lyrical song, ID's, "Radio Magazine", features on No Korea & US/South Korea military exercises, pgm sked, fqys, NA (Serra ITALY 3/25)
- 9435 ISRAEL Kol Israel in EG 2000, many nx items on anti-terrorist meetings in Cairo (Fraser MA 3/14)
- 9505 PHILIPPINES R Veritas Asia in EG 1255, ID in accented EG after end of Pilipino pgm, trumpets, another ID & ment of 7265 khz & 1300 UTC which is listed start of VT xmsn, f-p (Hill MA 3/28)

- 9525 INDONESIA RRI Jakarta in JP 1130, gamelin mx, tlk (Howard CA 3/30, Murray MA 3/24) in Thai *1100, "Song of Coconut Isles" IS, ID, nx, mx, QRM from VOA *1130, f (Card RI 3/15)
- 9590 temp USA BBC relay via WYFR Family Radio 1500, site ID, nx, sked, WYFR replaced by Antigua site at end of March on 11865 (Perkins NJ 2/22)
- 9645nf? TURKEY V of Turkey in GM 1730, ID, nx, //9445 weaker (Perkins NJ 4/4)
- 9650 CANADA R Korea relay in EG 1140, mailbag, pgm on microconductors (Newbury NE, Fraser MA)
- 9655nf TURKEY V of Turkey in EG 2300, fqy, sked, nx re Bosnia, poor modulation (Newbury NE 3/16)
- 9655 AUSTRIA RAI Vienna in EG 0135, ID, political & economic nx, g (McGuire MD 4/1)
- 9680 INDONESIA RRI Jakarta in EG 1231 (Tue's only), Kang Guru II Radio, exc (Howard CA 4/2)
- 9690 SPAIN China R Int relay in EG 0300, world nx, rpt on Taiwan, lcl nx, g (McGuire MD 3/9)
- 9735v PARAGUAY RN del Paraguay in SP 0757, Lat Am mx, ID (Buенeman MO 3/20, McCarthy GA)
- 9760 MOROCCO VOA relay in EG 2040, classical mx: Mozart, Elgar, ID, editorial (Newbury NE 3/31)
- 9895 USA BBC relay Delano CA in EG 0340, sports pgm, //5975, 6175 (Perkins NJ 4/1)
- 9900 EGYPT R Cairo in EG 2240, nx, AR s/off 2246, undermodulated (Fraser MA 3/19, Newbury NE)
- 9960 LEBANON Wings of Hope in AR 0944, choral chant, tlks, AR mx, sermon (Serra ITALY 3/2)
- 11620 INDIA AIR in EG 2145, xmsn to W Europe, Indian nx, clear ID, songs (Newbury NE 3/16)
- 11655 MADAGASCAR R Netherlands relay in EG 2017, "Media Network", DX pgm (Moats OH 3/28)
- 11715 UNITED KINGDOM Midwest Radio, County Mayo, Ireland via BBC in EG/IR *1200-1600*, special St Patrick's Day bcst, greetings from the Archbishop, Irish songs, nx, sports, acknowledged calls, QSL's promised, E-mail QTH (Berg MA, Clar NY, McCarthy GA all on 3/17)
- 11715 MALI China R Int relay in EG 2025, "View from the Third World" (Perkins NJ 3/17)
- 11734 nf TANZANIA R Tanzania Zanzibar in lang 2000*, tlk, nx?, ID, Afr mx, Koran?, NA (Clar NY 2/25)
- 11780 SAUDI ARABIA BSKSA in AR 1640, world nx, long tlk re Islam, ID, fqy (Serra ITALY 3/31)
- 11815 POLAND R Poland Warsaw in EG 1300, PQLAN for former torturing official (Pasquale PA 3/9)
- 11840 NORWAY R Denmark relay in EG 1347, regional nx, travel, cmntry, ID (Glockner PA 3/3)
- 11905 THAILAND R Thailand in EG 0030, China to increase investment in Thailand (Pasquale PA 3/22)
- 11925 SINGAPORE RAI relay via BBC in IT 1000, bird chirping & bells IS, ID "RAI, Radio Televisione Italiana", NA, fqy, "Un'ora con voi" pgm, nx, sports nx, pop mx, features (Serra ITALY 3/6)
- 119655 BRAZIL R Record in PT 2158, slow C&W rx, ID, ads, promos, p, //9505 better (Hill MA 3/14)
- 11990 KUWAIT R Kuwait in EG 1810, ID, OM & YL telling story, classical mx including Les Preludes by Liszt (Newbury NE 3/16, Pasquale PA 3/8, Levison PA 3/26)
- 11990 RUSSIA R Rossii in RS 1030-1300*, RS drama, tlks, //12045 (Ryan THAILAND 3/9)
- 12005 ECUADOR HCJB Quito in EG 1215, "Guidelines for Living" importance of father (Fraser 3/19)
- 13625 FRENCH GUIANA R France Int relay in EG 1230, nx, features, ID (Fraser MA, Newbury NE)
- 13635 SWITZERLAND SRI in IT 1239, tlk, ID, splatter from RFI relay on 13625 (Buенeman MO 3/10)
- 13730 AUSTRIA RAI in EG 1150, "Time Out for Art" Claude Monet exhibition, g (Fraser MA 3/15)
- 15115 ECUADOR HCJB Quito in EG 1229, kid's program, ID, TC, fqys, nx (Moats OH, Buенeman MO)
- 15115 NEW ZEALAND RNZI in EG 0157, "Cadenza" classical mx, sked, TC, nx, g (Moats OH 3/22)
- 15160 ALGERIA R Algiers in EG 2050, nx, ID 2058, followed by QTH, f/p (Pasquale PA 3/9)
- 15240 SWEDEN R Sweden in EG 1332, "60 Degrees North" nx, feature on nuclear power (Moats 3/20)
- 15255 RUSSIA R Orfey in RS *0430, RS opera, class mx, Viennese waltzes, IS, ID (Ryan THAI 3/10)
- 15270 RWANDA Deut Welle relay in EG 2100, Bosnian nx, 120 bodies found in graves (Newbury 3/21)
- 15275nf CANADA CBC Radio in EG 1958*, nx, sports, ID, "Double Exposure" 1935, //17725, in FR prior to 1900, thanks to World of Radio tip (Alexander PA 3/17)
- 15325 GABON(p) R France Int in EG 1233, "Health Concerns", ID, modern mx, g-p (Buенeman 3/10)
- 15345 ARGENTINA RAE Buenos Aires in SP 0004, BR mx, male vocals, speech, g (Levison PA 3/26)
- 17387 INDIA AIR Bangalore in EG 1008-1100*, nx, ID, political cmntry, Indian songs, pop mx, speech, press review, program preview, TC, //13700, 15050, 17890 (Serra ITALY 3/2)
- 17545 ISRAEL Reshet Beth in HB 0750, tlk re bad situation in Israel, lcl pop song, telephone calls, TC at 0800, ID, lcl & world nx to 0804 (Serra ITALY 3/6, Perkins NJ 4/4)
- 17725nf? CANADA R Canada Int in EG *1900-2000*, bcst for peacekeepers in Bosnia, fqy at s/on but not at s/off, //15275 (D'Angelo PA 3/30, Levison PA 3/4)
- 17765v NO KOREA R Pyongyang in EG 0710, nx, ID, mx, lyrical songs, QRM (Serra ITALY 3/6)
- 21455 ECUADOR HCJB Quito in EG 1430, "Key Life", "Morning in the Mountains" (Perkins NJ 3/23)
- 21490 ASCENSION ISLAND BBC relay in EG 1505, "Focus on Africa". //17880 (Perkins NJ 4/3)
- 21695 test SAO LOME VOA relay in EG 1555-2030, oldies/ class mx, confirmed by VOA (Perkins NJ 4/2)

Although Ed Newbury's loggings are identified as being made in Nebraska, he advises me that many of them were made at the Winter SW Festival in Kulpville, PA while he was there. Also, the loggings from Wells Perkins in Scotch Plains, NJ were received here to late to be included in the credits by Fred Kohlbrenner. Wells lists his equipment as SW100S, 2010, HF1000, SP 600, HQ150, and long wire antennas. Finally, these last minute loggings from Jack Jones in Jackson, MS:

- 6090 CHILE R Esperanza in SP 1035, soft L Am mx, TC's, ID's after each selection, f(3/29)
- 6115 PERU R Union in SP 0817, Andean mx, ID as "Radio Union" & "Union, La Radio", f(4/14)
- 6150 ALASKA KNLS in EG 0818, ID's, QTH, religious tlk, f(3/28)

English Schedules

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Croatia: I don't know if my e-mail last month had anything to do with it, but HRT moved from the problematic 7315 and WHRI interference to new 7165. 5895 is in parallel.

Hungary: A staffer at R Budapest sent the wrong schedule to NAM with messages to MT, Jim Frimmel and Glenn Hauser, but we figured it out. The right schedule is in the following pages.



As some of you may know, earlier this year I was appointed as a Contributing Editor to **Radio and Communications**. The magazine combines Amateur Radio Action and CB Action. R&C is published by ACP Syme Magazines of Melbourne. In addition to some feature articles, our regular column is "Baudwalking", reporting on radio-related things new on the Internet and the World-Wide Web. A by-product of the research is our own "Hot Links" (www.trsc.com/trs_link.htm) page updated several times a week.



These are some of the recent broadcaster URL changes, updating our article in the 1996 World Radio TV Handbook. Preface the following with "http://":

HRT: www.hrt.com.hr/eng/

RAI: www.rai.it/

R Denmark: www.dr.dk

R-TV Malaysia:

www.asiaconnect.com.my/rtm-net/

RNZI: lumeria.actrix.gen.nz/biz/rnzi/

KTWR: www.iclnet.org/pub/resources

/text/mnet/guests/gregson/guam.htm

I have been told the VOA is about to launch their Web site soon. The URL is probably www.voa.gov.

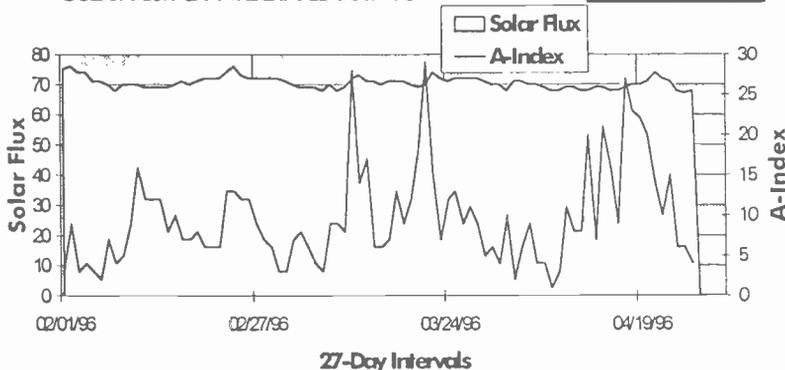
MASWA's Gerry Dexter and Tiare Publications: www.tiare.com

If you have a sound-capable PC be sure to check out the World Radio Network at www.wrn.org. With Real Audio and Xing Streamworks software, there is a vast collection of interesting things to listen to. Past editions of Media Network, Communications World and World of Radio are available for a mouse click.

Al Quaglieri has put up his "Interval Signals Page" at www.albany.net/~alcue/. Neat stuff in an .au format.

And we have been playing with Internet Phone (www.vocaltec.com). If you see an SWL or Shortwave Listening topic on the IP server, give me a call.

SOLAR FLUX & A-INDEX FEB-APR '96



<http://www.trsc.com>



Schedules

UTC Start & End | Country—Station: Target | Frequencies and Notes

0000

0030 Australia—R Australia: As/Pac/PapNG
17750 13605 11855

2400 Canada—CFMX: Canada
6005
Notes: relay CFCF-600

2400 Canada—CFRX: Canada
6070
Notes: relay CFRB-1010

2400 Canada—CHNX: Canada
6130
Notes: relay CHNS-960

0059 Canada—R Canada Int'l: Carib/LAm/NA
9755 5960
Notes: Su-Mo

0055 China—China R Int'l: eNAM
11760 9710

0027 Czech—R Prague: NAM
7345 5930

0050 North Korea—R Pyongyang: Am
15130 13760 11335

0100 Russia—V of Russia: World Service
9665 9620 7250 7240 7240
7125

0100 Spain—R Exterior de Espana: CAm/NAM
9540 6065

0100 Ukraine—R Ukraine Int'l: NAM
9550 7150

0100 United Kingdom—BBC: Americas
11750 9915 9590 7325 6175
5975 5970

0100 United Kingdom—BBC: Asia/Pacific
15360 15280 11945 9580 7110
6195

0100 United Kingdom—BBC: sAsia
11955 7265 5965

1400 USA—KAJJ: wNAM/FE
5810

1400 USA—KVOH: NAm/Carib
9975
Notes: 5085 occasional use

0100 USA—VOA: LAm
13740 9775 7405 5995

0100 USA—VOA: Caribbean
9775 9455 6130

0100 USA—VOA: eAs/sAs/Pac
17820 17735 15290 15185 11760
9770 9705 7215

0100 USA—WEWN: SAM
7520

0955 USA—WEWN: Eu
5825

1000 USA—WHRI: SAM
7315

2400 USA—WJCR: As/Eu
13595 7490

0100 USA—WSHB: CAm/SAM
9430

0100 USA—WSHB: eNAM/Carib
7535 7535

1000 USA—WWCR: Eu/ME/nAf
3315
Notes: tx #1

0100 USA—WYFR: NAM
6085

0030 Yugoslavia—R Yugoslavia: eNAM
7115
Notes: Tu-Su

0001

0010 Croatia—Croatian Radio: Eu
7165 5895
Notes: News

0030

0100 Australia—R Australia: As/Pac/PapNG
17860 17795 15415 15365 15240
13755 13605

0100 Australia—R Australia: As/Pac/PapNG
17750 15510 11855 9660 9580

0500 Ecuador—HCJB: NAm
21455U 9745

0127 Iran—V of Islamic Rep of Iran: NAM
9022 6015

0100 Lithuania—R Vilnius: NAM
6120

0125 Netherlands—R Netherlands: eNAM
9845 6165 6020

0125 Netherlands—R Netherlands: sAs
7305 5905

0100 Sweden—R Sweden: LAm
6065

0038

0053 Denmark—R Denmark: SAM/CAm/Carib/se
9525 7465 7275
Notes: Mo following 1st Su/mo

0050

0110 Italy—RAI: NAM
11800 9675 6005

0100

0400 Australia—R Australia: As/Pac/PapNG
17795 17715 15415 15365 15240
13755 13605

0400 Australia—R Australia: As/Pac/PapNG
21525 17880 17750 15510 9660
9580

0159 Canada—R Canada Int'l: Carib/LAm/NA
13670 11715 9755 9535 6120
Notes: #1,2,4 1st 30m Tu-Sa

0200 Cuba—R Havana: eNAM
9830U 6000

0127 Czech—R Prague: NAM
7345 6200

0150 Germany—R Deutsche Welle: NAM
11740 9640 6145 6085 6040

0130 Hungary—R Budapest: NAM
11870 9870

0200 Indonesia—V of Indonesia: As/Am
9525

0200 Japan—R Japan: GOS:As
17845 17810 11910 11890 11860
11840

0200 Japan—R Japan: GOS:NAm
11885 11790

0130 Norway—R Norway Int'l: NAM/CAm
9560
Notes: Mo only

0200 Russia—V of Russia: World Service
15180 12050 9620 7240

0127 Slovakia—R Slovakia Int'l: SAM/NAm
9440 7300 5930

0200 Spain—R Exterior de Espana: CAm/NAM
9540 6065

0130 Sweden—R Sweden: As/Pac
9435 7120

0130 Switzerland—Swiss R Int'l: NAM/CAm
9905 9885 6135

0100

0200 United Kingdom—BBC: Americas
11750 9915 9590 7325 6175
5975 5970

0200 United Kingdom—BBC: Asia/Pacific
15360 6195

0200 United Kingdom—BBC: sAsia
11955 9410 7265

1400 USA—KAJJ: eCanada/Carib
9815 9815

1500 USA—KTBN: eNAM
7510

0200 USA—VOA: LAm/Carib
13740 9775 9455 7405 6130
5995

0300 USA—VOA: sAs
17820 17740 15250 15170 11705
9635 7215 7205 7115

1400 USA—WEWN: NAM
7425

0200 USA—WSHB: cNAM
7535

0200 USA—WSHB: CAm/SAM
9430

1200 USA—WWCR: Eu/ME/nAf
5935
Notes: tx #2

1100 USA—WWCR: Eu/ME/nAf
2390
Notes: tx #4

0500 USA—WYFR: NAM
9505 6065
Notes: #1&2 Network Tu-Su

0300 Vietnam—V of Vietnam: Eu/NAM
7250
Notes: Pgm rpld 4x

0130 Yugoslavia—R Yugoslavia: wNAM
7130

0101

0110 Croatia—Croatian Radio: Eu
7165 5895
Notes: News

0130

0200 Austria—ORF: NAM
9655

0140 Greece—V of Greece: NAM
9420 7448 6260

0225 Netherlands—R Netherlands: sAs
11655 9860 7305 5905

0200 Sweden—R Sweden: LAm
7290

0138

0153 Denmark—R Denmark: CAm/Carib/eNAM
9560 7465
Notes: Mo following 1st Su/mo

0140

0200 Vatican State—Vatican Radio: As/Aus
7335 5980

0145

0200 Albania—R Tirana: NAM
7160 6140
Notes: freq's drift

Schedules

UTC Start & End | Country—Station: Target | Frequencies and Notes

| | | |
|--|---|--|
| <p>0200</p> <p>0300 Argentina—RAE: Americas 11710 Notes: Tu-Sa</p> <p>0259 Canada—R Canada Int'l: Carib/LAm/NA 13670 11715 9755 9535 6120 Notes: Su&Mo</p> <p>0259 Canada—R Canada Int'l: Carib/LAm 13670 9755 Notes: Tu-Sa</p> <p>0229 Canada—R Canada Int'l: Carib 11715 9535 6120 Notes: Tu-Sa for peacekeepers</p> <p>0400 Cuba—R Havana: cNAM/vNAM 9830U 9820 6000</p> <p>0330 Egypt—R Cairo: NAM 9475</p> <p>0250 Germany—R Deutsche Welle: sAs 12045 11965 11945 9690 9640 9615 7285</p> <p>0256 Romania—R Romania Int'l: NAM 11940 9625 9570 9510 6155 5990</p> <p>0300 Russia—V of Russia: World Service 15180 13645 12050 9620 7240</p> <p>0230 Slovakia—AWR Europe: India 11610</p> <p>0300 South Korea—R Korea: Am 15575 11810 11725</p> <p>0300 Taiwan—V of Free China: As/Aus/Am 15345 11825 11740 9680 7130 5950</p> <p>0300 United Kingdom—BBC: Africa 6135</p> <p>0300 United Kingdom—BBC: Americas 9915 9590 7325 6175 5975 5970</p> <p>0300 United Kingdom—BBC: Asia/Pacific 15360</p> <p>0300 United Kingdom—BBC: Europe 11955 7235</p> <p>0300 United Kingdom—BBC: sAsia 11955 9605 7235</p> <p>0300 USA—WSHB: w&cNAM 5850</p> <p>0300 USA—WSHB: Mexico 9430</p> | <p>0230</p> <p>0300 Portugal—R Portugal: SAM/vNAM 9570 6095 Notes: Tu-Sa</p> <p>0300 Sweden—R Sweden: NAM 7290</p> <p>0238</p> <p>0253 Denmark—R Denmark: CAm/vCarib/eNAM 9560 7465 Notes: Mo following 1st Su/mo</p> <p>0250</p> <p>0315 Vatican State—Vatican Radio: NAM 7305 6095</p> <p>0300</p> <p>0355 China—China R Int'l: wNAM/eNAM 11760 9710 9690</p> <p>0400 Costa Rica—Lighthouse of Caribbean: 5055</p> <p>0327 Czech—R Prague: NAM 7345 5930</p> <p>0350 Germany—R Deutsche Welle: NAM 9640 9615 9535 6085 6085</p> <p>0425 Guatemala—TGNC: 3300</p> <p>0400 Honduras—HRPC: Am 3250 Notes: Su-Mo</p> <p>0400 Japan—R Japan: GOS:As 17810 11840</p> <p>0400 Japan—R Japan: GOS: NAM 11790 5960</p> <p>0400 Russia—V of Russia: World Service 15180 13645 12050 9620 7230</p> <p>0455 South Africa—Channel Africa: e&cAI/ 5955 3220</p> <p>0400 Taiwan—V of Free China: As/Aus/Am 15345 11825 11745 9680 7130 5950</p> <p>0350 Turkey—V of Turkey: As/AlI/Aus/NAM 9685 9655 9560</p> <p>0400 Ukraine—R Ukraine Int'l: NAM 9550 7150</p> <p>0400 United Kingdom—BBC: Africa 12095 11730 9610 9600 6190 6005 3255</p> <p>0400 United Kingdom—BBC: Americas 9915 7325 6175 5975 5970</p> <p>0400 United Kingdom—BBC: Asia/Pacific 15380 15360 15280 11955</p> <p>0400 United Kingdom—BBC: Europe 12095 11760 9410 7235 6195 3955</p> <p>0400 United Kingdom—BBC: sAsia 15310 9605 7235</p> <p>0400 USA—VOA: Africa 15300 9575 7430 7405 7280 7105 6115 6080 5980</p> <p>0600 USA—WRNO: NAM/CAM 7395</p> <p>0400 USA—WSHB: wNAM 5850</p> <p>0400 USA—WSHB: eAI 7535</p> <p>0301</p> <p>0310 Croatia—Croatian Radio: Eu 7165 5895 Notes: News</p> | <p>0320</p> <p>0350 Vatican State—Vatican Radio: AI 7360</p> <p>0330</p> <p>0357 Czech—R Prague: ME/sAs 9480</p> <p>0400 Slovakia—AWR Europe: eAI 9465</p> <p>0400 Sweden—R Sweden: NAM 7115</p> <p>0400 United Arab Emirates—R Dubai: NAM 21485 15400 13675 11945</p> <p>0338</p> <p>0353 Denmark—R Denmark: ME/wNAM 9565 7465 7165 Notes: Mo following 1st Su/mo</p> <p>0340</p> <p>0350 Greece—V of Greece: NAM 9420 7448 6260</p> <p>0400</p> <p>0500 Australia—R Australia: As/Pac/Pap/NG 17795 17715 15415 15365 15240 13605 11880</p> <p>0430 Australia—R Australia: As/Pac/Pap/NG 21525 17880 17750 9660 9580</p> <p>0500 Bulgaria—R Bulgaria: NAM 11720 9700</p> <p>0429 Canada—R Canada Int'l: ME 15275 11905 11835</p> <p>0455 China—China R Int'l: eNAM/vNAM 9730 9560</p> <p>0500 Cuba—R Havana: cNAM/vNAM 9830U 9820 6180 6000</p> <p>0450 Germany—R Deutsche Welle: AI/ME 11765 9565 7225 7150 6185 6015 5990</p> <p>0415 Israel—Kol Israel: As/Aus/wEu/NAM 17545 9435 7465</p> <p>0450 North Korea—R Pyongyang: seAs 17765 15230 15180</p> <p>0430 Norway—R Norway Int'l: wNAM 7465 Notes: Su only</p> <p>0456 Romania—R Romania Int'l: NAM 11940 9625 9570 9510 6155 5990</p> <p>0500 Russia—AWR Europe: ME 6090</p> <p>0500 Russia—V of Russia: World Service 15180 13645 12050 9620 7230</p> <p>0430 Slovakia—AWR Europe: eAI 11600</p> <p>0430 Switzerland—Swiss R Int'l: NAM 9905 9885 6135 Notes: #1-05</p> <p>0500 United Kingdom—BBC: Africa 12095 11730 9610 9600 7160 6190 6005 3255</p> <p>0500 United Kingdom—BBC: Americas 9590 6175 5975</p> <p>0500 United Kingdom—BBC: Asia/Pacific 15280 11955</p> <p>0500 United Kingdom—BBC: Europe 15575 12095 11760 9410 7150 6195 6180 3955</p> <p>0500 United Kingdom—BBC: sAsia 15310</p> |
|--|---|--|

Schedules

UTC Start & End | Country—Station: Target | Frequencies and Notes

0400

0800 USA—KWHR: As
17780
0500 USA—VOA: Africa
15300 9575 7405 7340 7280
7265 6145 6080 5980
0500 USA—VOA: ME/nAl/Eu
15205 11965 7170 6873L
1000 USA—WHRI: Eu
5760
0900 USA—WMLK: Eu
9465
Notes: Mo-Sa
0500 USA—WSHB: eEu/Russia
7535
0500 USA—WSHB: c&sAl
9840
0500 USA—WYFR: Eu/Al
9985

0401

0410 Croatia—Croatian Radio: Eu
7165 5895
Notes: News

0425

0440 Italy—RAI: Mediterranean
7275 5975

0430

0500 Australia—R Australia: As/Pac/PapNG
21525 17880 17750 15510 9660
9580
0525 Netherlands—R Netherlands: wNAM
9550 6165
0505 Swaziland—Trans World Radio: sAf
6070 4775 3200

0438

0453 Denmark—R Denmark: ME/wNAM
13805 9565 7465
Notes: Mo following 1st Su/mo

0459

0715 New Zealand—R New Zealand Int'l: Pa
9570
Notes: Mo-Fr | SaSu -0758

0500

0600 Australia—R Australia: As/Pac/PapNG
17795 17715 15415 15365 15240
13755 13605
0600 Australia—R Australia: As/Pac/PapNG
21525 17880 9660 9580
0529 Canada—R Canada Int'l: Al/ME/Eu
17840 15430 7295 6050
Notes: Mo-Fr | for peacekeepers
0700 Cuba—R Havana: wNAM
9830U 9505
0700 Ecuador—HCJB: Nam
21455U 9745
0550 Germany—R Deutsche Welle: Nam
6185 6120 6045 5960
0600 Japan—R Japan: GOS: As
17810 11740 11725
0600 Japan—R Japan: GOS: Nam
11885 9605 6110
0600 Japan—R Japan: GOS: Oc
11920

0500

0600 Japan—R Japan: GOS: Eu
7230
0530 Japan—R Japan: Reg Svc: Nam/Hawaii
15230 11895 11885
0700 Nigeria—V of Nigeria: wAl
7255
0600 Russia—V of Russia: World Service
13645 12050
0600 Slovakia—AWR Europe: Eu
7215
0555 South Africa—Channel Africa: wAl/sA
9590 5955
0600 Spain—R Exterior de Espana: Nam
9540
0600 United Kingdom—BBC: Africa
17885 17640 15420 9600 7160
6190 6005 3255
0600 United Kingdom—BBC: Americas
9640 6175 5975
0600 United Kingdom—BBC: Asia/Pacific
15360 15280 11955 9740
0600 United Kingdom—BBC: Europe
15575 12095 11760 9410 7150
6195 6180 3955
0600 United Kingdom—BBC: sAsia
15310
0600 USA—VOA: Africa
12080 9630 9530 6080 6035
0600 USA—VOA: ME/nAl/Eu
15205 11965 7170 6873L
0600 USA—WSHB: cEu
7535
0700 USA—WYFR: Nam
5985
0600 USA—WYFR: Eu/Al
11580 9885
0530 Vatican State—Vatican Radio: Al
15570 11625 9660
0520 Vatican State—Vatican Radio: Eu
7250
Notes: European 1st pgm

0505

0600 Swaziland—Trans World Radio: sAf
9500 6070 4775 3200

0530

0600 Austria—ORF: Nam
6015
0600 Kazakhstan—R Almaty: Eu
11705
0556 Romania—R Romania Int'l: Al/Japan
17790 17745 15340 15270 11940
0600 Slovakia—AWR Europe: c&wAl
11600
0600 United Arab Emirates—R Dubai: seAs/
21700 17830 15435

0538

0553 Denmark—R Denmark: eAl/eEu/NZ
13805 9590 7295 7180
Notes: Mo following 1st Su/mo

0555

0825 Malaysia—V of Malaysia: Aus/NZ/Indo
15295 9750 6175
1525 South Africa—Radio Oranje. nwCape
5965

0600

0700 Australia—R Australia: As/Pac/PapNG
17715 15415 15365 15240 13755
13605 9860
0700 Australia—R Australia: As/Pac/PapNG
21525 17880 15530 15510 9660
9580
0650 Germany—R Deutsche Welle: wAl
21680 17875 17820 15225 15185
13790 11915
0700 Japan—R Japan: GOS: As
17810 11725
0650 North Korea—R Pyongyang: seAs
15230 15180
0630 Norway—R Norway Int'l: wAl/NZ/wEu
9590 7295 7180
Notes: Su only
0700 Russia—V of Russia: World Service
12050
0630 Slovakia—AWR Europe: c&wAl
13715
0700 Swaziland—Trans World Radio: sAf
9650 9500 6070 4775
0630 Switzerland—Swiss R Int'l: Al
15340 13635 9885
0615 Switzerland—Swiss R Int'l: Eu
9535 6165
0700 United Kingdom—BBC: Africa
17885 17640 15420 11940 9600
7160 6005
0700 United Kingdom—BBC: Americas
9640 6175 5975
0700 United Kingdom—BBC: Asia/Pacific
15360 15280 11955 9740 7145
0700 United Kingdom—BBC: Europe
15575 15070 12095 11780 11760
9410 7150 6195 6180 3955
0700 United Kingdom—BBC: sAsia
17790 15310
0630 USA—VOA: Africa
12080 11950 9630 9530 6873
6080 6035
Notes: Sa&Su -0700
0700 USA—VOA: ME/nAl/Eu
15205 11965 11805 7170 6873
6140
0800 USA—WSHB: wEu
7535
0800 USA—WYFR: Eu/Al
13695 9985 7355

0630

0700 Austria—ORF: Nam
6015
0655 Belgium—R Vlaanderen Int'l: Aus/Eu
9925 5985
0700 Vatican State—Vatican Radio: Al
15570 13765 11625

0631

0640 Romania—R Romania Int'l: Eu
11810 9665 9550

0638

0653 Denmark—R Denmark: eAl/wAl/NZ/Eu
13805 9590 7295 7180
Notes: Mo following 1st Su/mo

Schedules

UTC Start & End | Country—Station: Target | Frequencies and Notes

0640

0820 Monaco—Trans World Radio: UK
7115
Notes: Su-0805
0700 Vatican State—Vatican Radio: Eu
15215 9645 7250 5880
Notes: Mo-Fr|European 1st pgm

0645

0745 Romania—R Romania Int'l: Pac
17720 15270 15250 11840 11740

0700

0730 Australia—R Australia: As/Pac/Pap/NG
17715 15415 13605 11880 9860
6080 6020
0730 Australia—R Australia: As/Pac/Pap/NG
21725 15530 15510 5995
0727 Czech—R Prague: Eu
7345 5930
0830 Ecuador—HCJB: Eu
21455U 11615
1130 Ecuador—HCJB: sPac
21455U 5900
0800 Japan—R Japan: GOS:As
21610 17810 11740 11725
0800 Japan—R Japan: GOS:Oc
11920 11850
0800 Japan—R Japan: GOS:Eu
7230
0800 Japan—R Japan: GOS:ME
15165
0800 Japan—R Japan: GOS:cAf
17815
0750 North Korea—R Pyongyang: seAs
17765 15340
0710 Sierra Leone—SLBS
3316
Notes: News
0805 Swaziland—Trans World Radio: sAf
9650 9500 4775
Notes: Mo-Fr-0820
0730 Switzerland—Swiss R Int'l: Eu
9535 6165
0800 Taiwan—V of Free China: NAM
5950
0800 United Kingdom—BBC: Af/ncA
17885 17830 15400 15070 11940
11860 9600 9600 7160
0800 United Kingdom—BBC: Americas
9640 6175 5975
0800 United Kingdom—BBC: Asia/Pacific
15360 15280 11955 9740 7145
0800 United Kingdom—BBC: Europe
15575 15070 12095 11780 11760
9410 7325 6195 6180 3955
0800 United Kingdom—BBC: sAsia
17790 15310
0800 USA—WEWN: SAM
7465

0703

0710 Croatia—Croatian Radio: NAMr/Eu
9830 7165 5895
Notes: Mo-Fr | News

0716

1206 New Zealand—R New Zealand Int'l: Pa
6100
Notes: Mo-Fr | SaSu 0758-

0730

0800 Australia—R Australia: As/Pac/Pap/NG
17715 15415 9860 9710 9580
6080 6020
0800 Austria—ORF: ME/Eu
17870 15410 13730 6155
0825 Netherlands—R Netherlands: Pacific
11895 9720

0738

0753 Denmark—R Denmark: wAf/Eu/NZ
13805 9590 9590 7180
Notes: Mo following 1st Su/rMo

0745

0755 Greece—V of Greece: Eu
11645 9425 7450
0915 Guam—KTWR: FE
15200

0800

0830 Australia—R Australia: As/Pac/Pap/NG
21725 17715 15530 9860 9710
9580 9510 6080 6020 5995
0900 Indonesia—V of Indonesia: As/Aus
9525
0900 N Mariana Is—KHBI: eEu
15665
0900 N Mariana Is—KHBI: NZ
13615
0850 North Korea—R Pyongyang: seAs
15230 15180
0830 Norway—R Norway Int'l: Aus
17860
Notes: Su only
0850 Pakistan—R Pakistan: wEu
17895 15470
0810 Sierra Leone—SLBS
3316
Notes: News
0900 United Kingdom—BBC: Af/ncA
17885 17830 15400 15070 11940
6190
0900 United Kingdom—BBC: Americas
9640
0900 United Kingdom—BBC: Asia/Pacific
15360 15280 11955 9740
0900 United Kingdom—BBC: Europe
17640 15575 15400 15070 12095
11760 9410 7325 6195
0900 United Kingdom—BBC: sAsia
17790 15310
0900 USA—KNLS: eCIS/China
9615
1600 USA—KWHR: As
9930
1000 USA—WSHB: Eu
7535

0803

0810 Croatia—Croatian Radio: NAMr/Eu
9830 7165 5895
Notes: Sa-Su | News

0830

0900 Australia—R Australia: As/Pac/Pap/NG
21725 17715 15530 9860 9580
9510 6080 6020 5995
0925 Netherlands—R Netherlands: Pacific
13700 9720

0830

0857 Slovakia—R Slovakia Int'l: Aus
17550 15460 11990

0838

0853 Denmark—R Denmark: seAs/ME
17855 15220
Notes: 1st Su/rMo

0845

1000 Guam—KTWR: sPac
11830

0900

1000 Australia—R Australia: As/Pac/Pap/NG
21725 13605 9660 9580 9510
7240
0925 Belgium—R Vlaanderen Int'l: Af/Eu
17595 15545 6035
Notes: Mo-Sa
0955 China—China R Int'l: sPac
15440 11755
0930 Czech—R Prague: wAf/sAs
17485 15640
0950 Germany—R Deutsche Welle: Af
21600 17800 15410 15225 9565
0950 Germany—R Deutsche Welle: As/Pac
21680 12055 11730 11715 6160
1000 Japan—R Japan: GOS:As
15190 9610
1000 Japan—R Japan: GOS:Oc
11850
1000 N Mariana Is—KHBI: Japar/Kor/CIS
9430
1000 N Mariana Is—KHBI: Aus
13615
0930 Switzerland—Swiss R Int'l: Pac
17515 13685 9885
1000 United Kingdom—BBC: Africa
17885 17830 15400 15070 11940
6190
1000 United Kingdom—BBC: Americas
15190
1000 United Kingdom—BBC: Asia/Pacific
17830 15280 9740 6195
1000 United Kingdom—BBC: Europe
17705 17640 15575 15400 15070
12095 11760 9410 7325 6195
1000 United Kingdom—BBC: sAsia
11750
1000 USA—WSHB: Brazil/SAM
7395
1100 USA—WVHA: Af
13825
Notes: Sa

0903

0910 Croatia—Croatian Radio: Eu
9830 7165 5895
Notes: Mo-Fr | News

0930

1000 Austria—ORF: As/Aus/Eu
17870 15450 13730 6155
Notes: Mo-Sa
1000 Mongolia—R Ulan Bator: Aus
12085 11850
1025 Netherlands—R Netherlands: Pacific
13705 12065 9720

Schedules

UTC Start & End | Country—Station: Target | Frequencies and Notes

0938

0953 Denmark—R Denmark: seAs/Aus
17865 13800
Notes: 1st Su/mo

1000

1030 Australia—R Australia: As/Pac/PapNG
21725 9860 9580 9510 7240

1055 China—China R Int'l: sPac
11755 6590

1100 Guam—KSDA: As
9370

1100 India—AIR: GOS/naAs/AusNZ
17890 17387 15050 13700

1100 N Mariana Is—KHBI: Indon
13625

1100 N Mariana Is—KHBI: China
9430

1100 Nigeria—V of Nigeria: wAf
7255

1100 Russia—V of Russia: World Service
11655 9835 7150

1100 United Kingdom—BBC: Africa
17885 17830 17705 15400 15070
11940 6190

1100 United Kingdom—BBC: Americas
15190

1100 United Kingdom—BBC: Asia/Pacific
17830 15280 9740 7110 6195

1100 United Kingdom—BBC: Europe
17705 17640 15575 15400 15070
12095 11760 9410

1100 United Kingdom—BBC: sAsia
17790 15310 11750

1200 USA—VOA: Caribbean
9590 7405 6165

1100 USA—VOA: eAs/seAs/Pac
15425 11720 5985
Notes: primarily to Pacific region

1200 USA—WEWN: Eu
7465

0400 USA—WGTX: Canada/Mexico
9400

1300 USA—WHRI: SA
9495

1500 USA—WHRI: Eu
6040

0130 USA—WRMI: CAmv/Carib
9955

Notes: Sa: 10-13,2030-0430 Su: 11-0130

1300 USA—WSHB: eNA/Carib
6095 6095

1100 USA—WSHB: SA
7395

2200 USA—WWCR: Eu/ME/nAf
15685
Notes: tx #1

1100 USA—WYFR: NA
5950

Notes: Network Mo-Sa

1025 Vietnam—V of Vietnam: AS
15009 12020 9840

Notes: #2 alt

1030

1100 Australia—R Australia: As/Pac/PapNG
21725 9860 9580 7240

1100 Austria—ORF: Aus/As
17870 15450

1057 Czech—R Prague: Eu
9505 7345

1030

1125 Netherlands—R Netherlands: FE
13705 12065

1125 Netherlands—R Netherlands: Eu
9650 6045

1059 South Korea—R Korea: Am
11715

1110 United Arab Emirates—R Dubai: Eu/nAf
21605 17825 15395 13675

1038

1053 Denmark—R Denmark: SA/ME
15220 9480

Notes: 1st Su/mo

1040

1100 Vatican State—Vatican Radio: Eu
17550 15570 11740 5880

Notes: Mo-Fr|European 1st pgm

1100

1130 Australia—R Australia: As/Pac/PapNG
15530 9860 9615 9580 7240

1200 Costa Rica—AWR Pan America: Am
13750 9725 7375 5030

1500 Ecuador—HCJB: Carib
21455U 12005

1150 Germany—R Deutsche Welle: wAf
21600 17860 17800 17765 17715
15410 15370

1200 Japan—R Japan: GOS: As
15350 9610

1200 Japan—R Japan: GOS: NA
6120

1200 N Mariana Is—KHBI: Japan/Kor/CIS
9355

1200 N Mariana Is—KHBI: Aus
9430

1150 North Korea—R Pyongyang: Am
11335 9975 6575

1115 Pakistan—R Pakistan: wEu
17895 15470

Notes: Slow-speed English

1200 Russia—V of Russia: World Service
17870 17560 15560 15520 15460
15170 11655 7150

1400 Singapore—R Singapore Int'l: Extern
6015

1130 Switzerland—Swiss R Int'l: FE
17515 15545 13635

1130 Switzerland—Swiss R Int'l: Eu
9535 6165

1200 Taiwan—V of Asia: As
7445

1200 United Kingdom—BBC: Africa
21660 17885 17830 17705 15070
11940 6190

1200 United Kingdom—BBC: Americas
15220 15190 9515 7325 6195
5965

1200 United Kingdom—BBC: Asia/Pacific
11955 9740 9580 7180 6195

1200 United Kingdom—BBC: Europe
17705 17640 15575 15400 15070
12095 11760 9410

1200 United Kingdom—BBC: sAsia
17790 15310 11750

1200 USA—VOA: eAs/seAs/Pac
15425 15160 11720 9760 9645
6160 5985

1100

1200 USA—WSHB: CAm/SA
7395

1300 USA—WWCR: Eu/ME/nAf
7435

Notes: tx #3

2200 USA—WWCR: Eu/ME/nAf
9475

Notes: tx #4

1200 USA—WYFR: NA
11830 5950

Notes: #2 Network Mo-Sa

1130

1200 Australia—R Australia: As/Pac/PapNG
15530 9860 9615 9580 9560

1200 Austria—ORF: Eu/NA
13730

1230 Bulgaria—R Bulgaria: Japan
13790

1430 Ecuador—HCJB: NA/SA
21455U 15115 15115

1200 Finland—R Finland: NA
15400 11900

1227 Iran—V of Islamic Rep of Iran: ME/A
15260 11930 11875

1155 Monaco—Trans World Radio: UK
7115

Notes: Sa&Su|Sa:1200

1200 Sweden—R Sweden: NA
15240 11650

1138

1153 Denmark—R Denmark: Af/Eu
17740 7295

Notes: 1st Su/mo

1200

1230 Australia—R Australia: As/Pac/PapNG
15530 9860 9615 9580 9580
9560

1320 Brazil—R Nacional de Brasil: NA/NA
15445

1259 Canada—R Canada Int'l: Carib/NA
13650 11855 9640

1229 Canada—R Canada Int'l: As
15195 9660

1255 China—China R Int'l: As/Pac
15440 11660 9715 9655

1300 Costa Rica—AWR Pan America: Am
13750 9725 6150 5030

1600 Costa Rica—R for Peace Int'l: LA/NA
15050U 7385

1300 France—R France Int'l: Eu/Al/As/Pac
17595 15530 15325 15195 15155
13625 11615 11600 9805

1300 Jordan—R Jordan: wEu/NA
11970

1230 Mongolia—R Ulan Bator: As
12085 11850

1300 N Mariana Is—KHBI: seAs
9355

1300 N Mariana Is—KHBI: Aus
9430

1230 Norway—R Norway Int'l: FE/Eu
15305 13800 9590

Notes: Su only

1255 Poland—Polish Radio Warsaw: Eu
11815 9525 7270 7145 6135

Schedules

UTC Start & End | Country—Station: Target | Frequencies and Notes

1200

- 1300 Russia—V of Russia: World Service
17870 15520 15510 15340 15230
15170 11655 7150
- 1300 South Korea—R Korea: ME/Al
7285
- 1230 Switzerland—Swiss R Int'l: Eu
9535 6165
- 1300 Taiwan—V of Free China: As/Oc
9610 7130
- 1300 United Kingdom—BBC: Africa
21660 17885 17830 17705 11940
6190
- 1300 United Kingdom—BBC: Americas
15220 9515 6195
- 1300 United Kingdom—BBC: Asia/Pacific
11955 9740 9580 6195 6100
- 1300 United Kingdom—BBC: Europe
17705 17640 15575 15070 12095
11760 9410
- 1300 United Kingdom—BBC: sAsia
15310 11750
- 1330 USA—VOA: eAs/seAs/Pac
15425 15160 11715 9760 9645
6160
- 1300 USA—WEWN: SAam
6000
- 1400 USA—WEWN: Eu
15115
- 1300 USA—WSHB: CAam/SAam
9455
- 0100 USA—WWCR: Eu/ME/NAI
13845
Notes: lx #2
- 1300 USA—WYFR: NAm
11830 11750 6015 5950
Notes: #1&2&4 Network Mo-Sa
- 1225 Uzbekistan—R Tashkent: As
15295 9715 7190

1215

- 1330 Egypt—R Cairo: sAs
17595

1230

- 1300 Armenia—R Yerevan: Eu
15270
Notes: Su
- 1300 Australia—R Australia: As/Pac/PapNG
15530 11800 9615 9580 9560
5995
- 1255 Belgium—R Vlaanderen Int'l: NAm
13605
Notes: Su
- 1330 Bulgaria—R Bulgaria: As
15620
- 1300 Finland—R Finland: NAm
15400 11900
Notes: Mo-Fr
- 1325 Netherlands—R Netherlands: Eu
7190 6045
- 1300 South Korea—R Korea: As
13670 9640
- 1300 Sweden—R Sweden: As/Pac
15240 13740
- 1300 Turkey—V of Turkey: As/Eu
9630 9445
- 1255 Vietnam—V of Vietnam: As
15009 12020 9840
Notes: #2 alt

1238

- 1253 Denmark—R Denmark: nSAm/seAs/Aus/FEI500 USA—WWHA: Af
15480 15305 13800 9590
Notes: 1st Su/mo

1240

- 1250 Greece—V of Greece: Af
11645

1300

- 1400 Australia—R Australia: As/Pac/PapNG
11800 9615 9580 9560 5995
- 1325 Belgium—R Vlaanderen Int'l: seAs/NA
15540 13605
Notes: Mo-Sa
- 1559 Canada—R Canada Int'l: Carib/NAm
13650 11855
Notes: Su
- 1359 Canada—R Canada Int'l: Carib/NAm
13650 11855 9640
Notes: Mo-Fr
- 1355 China—China R Int'l: As/Pac
15440 11660 9715
- 1330 Czech—R Prague: Eu
17485 11660
- 1400 N Mariana Is—KHBI: India
9355
- 1400 N Mariana Is—KHBI: Indon
13840
- 1350 North Korea—R Pyongyang: seAs
15230 13760 9640
- 1350 North Korea—R Pyongyang: Eu
11730 9345
- 1350 North Korea—R Pyongyang: Am
15230 13760
- 1330 Norway—R Norway Int'l: eNAm/seAs/wA
15340 13800
Notes: Su only
- 1356 Romania—R Romania Int'l: Eu
17720 15365 11940 9690
- 1400 Russia—V of Russia: World Service
15560 15460 15340
- 1330 Switzerland—Swiss R Int'l: FE/seAs
13635 11640 7480 7230
- 1330 Switzerland—Swiss R Int'l: Eu
9535 6165
- 1400 United Kingdom—BBC: Africa
21660 21470 17885 17830 17705
15420 11940 6190
- 1400 United Kingdom—BBC: Americas
15220 9590 9515 6195 5965
- 1400 United Kingdom—BBC: Asia/Pacific
9740 6195 5990
- 1400 United Kingdom—BBC: Europe
21470 17705 17640 15575 15070
12095 11760 9410
- 1400 United Kingdom—BBC: sAsia
15310 11750
- 1500 USA—KJES: Canada
11715
- 1400 USA—KNLS: eAs
7365
- 1400 USA—WEWN: SAam
15375
- 1700 USA—WHRI: SAam
15105
- 1400 USA—WSHB: cNAam
6095
- 1400 USA—WSHB: Mexico
9455

1300

- 2300 USA—WWCR: Eu/ME/NAI
12160
Notes: lx #3
- 1400 USA—WYFR: NAm
17750 13695 11830 5950
Notes: #1&3&4 Network Mo-Sa

1302

- 1502 USA—WYFR: India
11550

1303

- 1310 Croatia—Croatian Radio: NAm/Eu
13830 7165 5920
Notes: News

1330

- 1400 Austria—ORF: Eu
13730 6155
- 1359 Canada—R Canada Int'l: Eu/ME/AF
21455 17820 15325 11935
- 1357 Canada—R Canada Int'l: eAs
11795 9535
- 1400 Guam—KSDA: As
9650
- 1500 India—AIR: GOS/seAs
13750U 11620
- 1425 Netherlands—R Netherlands: sAs
15150 13700 9890
- 1400 Sweden—R Sweden: NAm/As/Pac
15240 11650 9835
- 1355 United Arab Emirates—R Dubai: Eu/NA
21605 17825 15395 13675
- 1400 USA—VOA: eAs/seAs/Pac
15425 15160 11715 9760 9645
6160
- 1355 Uzbekistan—R Tashkent: As
15295 9715 7190
- 1355 Vietnam—V of Vietnam: eAs
15009 12020 9840
Notes: #2 alt
- 1400 Yugoslavia—R Yugoslavia: Aus
7230

1338

- 1353 Denmark—R Denmark: seAs/Aus/FE/NAam/
15340 15305 13800 9590
Notes: 1st Su/mo

1340

- 1350 Greece—V of Greece: NAm/wEu
15650 15170

1345

- 1405 Vatican State—Vatican Radio: As/Aus
13765 11625 9500

1400

- 1430 Australia—R Australia: As/Pac/PapNG
11800 9615 9580 9560 5995
- 1455 China—China R Int'l: As/Am
9785 9535 7405
- 1500 France—R France Int'l: ME/As
17560 15405 12030
- 1430 Israel—Kol Israel: Eu/NAam
15615 12077

Schedules

UTC Start & End | Country—Station: Target | Frequencies and Notes

1400

1500 Japan—R Japan: GOS:As
11915 11895 9695 9610

1500 Japan—R Japan: GOS:NAm
11705 9535

1500 Morocco—R-TV Morocco:
17595
Notes: Su

1500 N Mariana Is—KHBI: India/China
9355

1410 Pakistan—R Pakistan: ME/Al
15675 13590 11570 9485

1500 Russia—V of Russia: World Service
15560 15540 11945

1500 United Kingdom—BBC: Africa
21660 21470 17830 17705 15400
11940 6190

1500 United Kingdom—BBC: Americas
17840 15260 9590 9515

1500 United Kingdom—BBC: Asia/Pacific
9740 6195 5990

1500 United Kingdom—BBC: Europe
21470 17705 17640 15575 15070
12095 9410

1500 United Kingdom—BBC: sAsia
15310 11750 7205

2400 USA—KAIJ: Carib
13815

2400 USA—KVOH: NAm/Carib
17775
Notes: inc Spanish prgms

1500 USA—VOA: eAs/seAs/Pac
15425 15160 9760 9645 6160

1500 USA—VOA: ME/nAl/Eu
15255

1800 USA—VOA: sAs
15395 9760 9645 7215 6110

1500 USA—WEWN: NAm
11875 7425

1600 USA—WEWN: Eu
15235

2300 USA—WRNO: NAm/CAm/Eu
15420

1500 USA—WYFR: NAm
17750 11830 5950
Notes: Network Mo-Sa

1415

1425 Nepal—R Nepal: Domestic
7165 5005 3230
Notes: News

1430

1700 Australia—R Australia: As/Pac/PapNG
12080 11800 11660 9615 9580
6090 6080 6060 5995

1600 Ecuador—HCJB: SAм
21455U 15115

1525 Netherlands—R Netherlands: sAs
15150 13700 9890

1500 Portugal—R Portugal: ME/FE
21515
Notes: Mo-Fr

1526 Romania—R Romania Int'l: As
15335 11740

1438

1453 Denmark—R Denmark: NAm/sAs
15340 13800
Notes: 1st Su/mo

1500

1555 China—China R Int'l: As/Am
9785 9535 7405

1630 Guam—KTWR: s&eAs
11580

1600 Japan—R Japan: GOS:As
11930 11915

1600 Japan—R Japan: GOS:NAм
9535

1600 Japan—R Japan: GOS:sAl
15355

1730 Jordan—R Jordan: wEu/NAм
11970

1530 Mongolia—R Ulan Bator: sAs
12085 9745

1600 N Mariana Is—KHBI: India/China
9355

1700 Nigeria—V of Nigena: wAl
7255

1550 North Korea—R Pyongyang: ME/Al
9975 9640

1550 North Korea—R Pyongyang: Eu
13785 9325

1600 Russia—V of Russia: World Service
15560 15540 15400 11945 11775
9880

1530 Seychelles—FEBA: sAs
11870
Notes: Tu&We&Th :1515

1600 Seychelles—FEBA: sAs
9810
Notes: Mo-Sa (Int'l Pgm)

1600 South Africa—Channel Africa: e&Al/Al
7155 3220

1530 Switzerland—Swiss R Int'l: sAs
13635 12075 11640

1600 United Kingdom—BBC: Africa
21660 21490 21470 17880 17830
15420 15400 11940 11860 6190

1600 United Kingdom—BBC: Americas
15260 11865 9590 9515

1600 United Kingdom—BBC: Asia/Pacific
9740 7180 6195 5990

1600 United Kingdom—BBC: Europe
21470 17705 15400 15070 9410

1600 United Kingdom—BBC: sAsia
11750 7205

1600 USA—KJES: Mexico
11715

0100 USA—KTBN eNAм
15590

1700 USA—VOA: ME/nAl/Eu
15205 15205 10454L 9705

1700 USA—WEWN: NAm
11875 9455

2200 USA—WHRl: Eu
13760

1600 USA—WYFR: NAm
17750 11830

1520

1530 Estonia—R Tallinn: Eu
5925

1530

1600 Austria—ORF: As
11780

1545 India—AIR: GOS/sAs/ME
11670 11585 9910 9530 7410

1627 Iran—V of Islamic Rep of Iran: As
9635 7290

1530

1625 Netherlands—R Netherlands: sAs
15150 9890

0550 South Africa—Radio Oranje: nwCape
3230

1538

1553 Denmark—R Denmark: ME/wNAм
15230 13805 11840
Notes: 1st Su/mo

1600

1655 China—China R Int'l: Al
15130 15110 11575

2200 Costa Rica—R for Peace Int'l: LAм/NA
15050U 6200

1627 Czech—R Prague: ME/Eu
17485 5930

1700 France—R France Int'l: Al/ME/Eu
15530 15460 15210 12015 11700
11615 9485 6175

1700 Germany—R Deutsche Welle: Al
17800 11965 9735 7185

1650 Germany—R Deutsche Welle: sAs
13690 9875 7225 6170

1700 Guam—KSDA: India
7395

1800 N Mariana Is—KHBI: eEu
11550

1800 N Mariana Is—KHBI: sAl
9355

1630 Norway—R Norway Int'l: eAl/sAs/wNAм
13805 11860 11840
Notes: Su only

1630 Pakistan—R Pakistan: Al/ME
15555 13590 11935 11570 9515
9485
Notes: Slow-speed news 1615

1700 Russia—V of Russia: World Service
15400 11945 11775 11675 11630
9880 9480

1700 South Africa—Channel Africa: wAl/e&
9530 7155 3220

1700 South Korea—R Korea: Eu/ME/Al/GOS
9870 9515 5975

1830 Swaziland—Trans World Radio: cAl
9500

1640 United Arab Emirates—R Dubai: Eu/nA
21605 17825 15395 13675
Notes: #1 anncd as 11795

1700 United Kingdom—BBC: Africa
21660 21470 17830 17705 15420
15400 11860 9630 6190

1700 United Kingdom—BBC: Americas
17840 9515

1700 United Kingdom—BBC: Asia/Pacific
7135 3915

1700 United Kingdom—BBC: Europe
21470 15400 15070 12095 9740
9410

1700 United Kingdom—BBC: sAsia
11750 9740 9510 7205 5975

1800 USA—KWHR: Oc
6120

1700 USA—WSHB: eAl
18930

1700 USA—WYFR: NAm
17750 11830 11705
Notes: #1&3 Network Mo-Sa

1700 USA—WYFR: Eu/Al
21745 21525 15695

Schedules

UTC Start & End | Country—Station: Target | Frequencies and Notes

1600

- 1625 Vatican State—Vatican Radio: AI/As/
11640 9540
Notes: Sa/Mass
1625 Vietnam—V of Vietnam: Af
15009 12020 9840
Notes: #2 all

1615

- 1630 Albania—R Tirana: UK
9740 7155
Notes: freq's drift
1630 Vatican State—Vatican Radio: Eu
11810 7250 4005
Notes: European 1st pgm

1630

- 1657 Canada—R Canada Int'l: India
9550 7150
1830 Egypt—R Cairo: c&sAf
15255
1730 Slovakia—AWR Europe: eAf
15620
1657 Slovakia—R Slovakia Int'l: wEu
7345 6055 5915
1700 USA—VOA: Africa
17895 15445 15410 15225 13710
12040 11920 6035
Notes: Sa&Su 1600-

1638

- 1653 Denmark—R Denmark: wNA/wEu/eAI/sAs₂
15340 13805 11860 11840
Notes: 1st Su/mo

1645

- 1659 Canada—R Canada Int'l: Eu/ME/AI
17820 15325 11935 9555
Notes: Mo-Fr

1650

- 1850 New Zealand—R New Zealand Int'l: Pa
6145
Notes: Mo-Fr

1700

- 1800 Australia—R Australia: As/Pac/Pap/NG
12080 11880 11660 9860 9615
9580 6090 6080 6060
1755 China—China R Int'l: Af
11575 9535 7405
1800 Costa Rica—AWR Pan America: Am
13750
Notes: Sa-Su
1727 Czech—R Prague: cAI/Eu
15640 5835
1730 France—R France Int'l: ME/AI
15460 15210 11615
1800 Japan—R Japan: GOS:As
11930 9580 6035
1800 Japan—R Japan: GOS:NAm
9535
1800 Japan—R Japan: GOS:ME/nAf
11880
1750 North Korea—R Pyongyang: ME/AI
9975 9640
1750 North Korea—R Pyongyang: Eu
13785 9325
1750 Pakistan—R Pakistan: wEu
11570 5825

1700

- 1755 Poland—Polish Radio Warsaw: Eu
7285 7270 6095
1800 Russia—V of Russia: World Service
15400 11775 11630 9880 9675
9480
1755 South Africa—Channel Africa: e&cAI/
7155 3220
1730 Switzerland—Swiss R Int'l: ME/AI/Eu
13635 9885 7510 5850
1800 United Kingdom—BBC: Africa
17830 15400 11860 9630 6190
6005
1900 United Kingdom—BBC: Americas
17840 9515
Notes: #2 Sa
1745 United Kingdom—BBC: Asia/Pacific
7135 3915
1800 United Kingdom—BBC: Europe
15070 12095 9410 7160 6195
6180 3955
1800 United Kingdom—BBC: sAsia
11750 9740 9510
1800 USA—VOA: Africa
17895 15445 15410 13710 12040
11920 6035
1800 USA—VOA: eAs/seAs/Pac
11870 9770 9550 7170 7150
6045 5990
Notes: Mo-Fr
1800 USA—VOA: ME/nAI/Eu
15255 10454L 9760 9705
2100 USA—WEWN: NA m
13615 11580
2400 USA—WHRI: SA m
9495
2000 USA—WMLK: Eu/AI
9465
Notes: Su-Fr
1800 USA—WSHB: cAI
18930
1900 USA—WYFR: Eu/AI
21745 15695

1730

- 1800 Austria—ORF: As/Eu/ME
13730 11780 9665 6155
1800 Guam—KSDA: India
9370
1825 Netherlands—R Netherlands: s&e&wAI
11655 7120 6020
1756 Romania—R Romania Int'l: Af
11940 11830 9750 9550
1800 Vatican State—Vatican Radio: Af
15570 11625 9660

1738

- 1753 Denmark—R Denmark: eAI/sAs/Eu
15220 11860 7485
Notes: 1st Su/mo

1745

- 1945 India—AIR: GOS/e&w&nAI/wEu/ME
15075 13750 11935 11620 9950
9650 7410
1800 Swaziland—Trans World Radio: sAI
3200
Notes: Mo-Fr

1800

- 1900 Algeria—R Algiers Int'l: Eu/ME/AI
15160 11715
1830 Australia—R Australia: As/Pac/Pap/NG
12080 11880 11660 9860 9580
7330 6090 6080 6060
1825 Belgium—R Vlaanderen Int'l: AI/Eu
13645 5910
1920 Brazil—R Nacional de Brasil: Eu
15265
2100 Kuwait—R Kuwait: Eu
11990
2000 N Mariana Is—KHBI: Eu/ME
9355
2000 N Mariana Is—KHBI: sAI
9385
1830 Norway—R Norway Int'l: AI/Eu
15220 13805 9590 7485
Notes: Su only
1900 Russia—V of Russia: World Service
15400 11945 11775 11675 11630
9880 9480
1900 Sudan—R Omdurman: Regional
9024
2015 Swaziland—Trans World Radio: sAI
3200
Notes: -2045 Su
1900 United Kingdom—BBC: Africa
17830 15420 15400 11860 9630
6190 6005 3255
1900 United Kingdom—BBC: Europe
15070 12095 9740 9410 7325
7160 6195 6180 3955
1900 United Kingdom—BBC: sAsia
11750 9740 9510
1900 USA—KJES: Aus
15385
2000 USA—KWHR: Oc
13625
1900 USA—VOA: Africa
17895 15580 15410 13710 12040
11920 6035
2100 USA—VOA: ME/nAI/Eu
10454L 9770 9760
2100 USA—WEWN: Eu
13695
2000 USA—WSHB: eEu
15665
1900 USA—WSHB: sAI
18930
2200 USA—WVHA: Eu/AI
9930
1825 Vietnam—V of Vietnam: Eu
15009 12020 9840
Notes: #2 all
1900 Yemen—Rep of Yemen R: ME
9780

1830

- 1900 Albania—R Tirana: UK
9740 7270
Notes: freq's drift
1930 Australia—R Australia: As/Pac/Pap/NG
12080 11880 11660 11640 9860
9580 7330 6090 6080
1845 N Mariana Is—KFBS:
9465
Notes: We&Sa
1925 Netherlands—R Netherlands: e&e&wAI
17605 15315 13700 11655 9895
9860 7120 6020

Schedules

UTC Start & End | Country—Station: Target | Frequencies and Notes

1830

- 1857 Slovakia—R Slovakia Int'l: wEu
7345 6055 5915
- 1900 South Korea—R Korea: Eu
3955
- 1900 Sweden—R Sweden: Eu/Al/ME
11615 9655 6065
- 1930 Turkey—V of Turkey: Eu
9535 9455
- 1900 United Kingdom—BBC: Asia/Pacific
9740
- 1900 Yugoslavia—R Yugoslavia: Al/Eu
9720 6100

1838

- 1853 Denmark—R Denmark: Al/wEu
15220 13805 9590 7485
Notes: 1st Su/mo

1840

- 1850 Greece—V of Greece: Af
15650 11645

1851

- 1952 New Zealand—R New Zealand Int'l: Pa
9810
Notes: Su-Th|Fr -2006|Sa 1855-1958

1900

- 2000 Argentina—RAE: Eu/Al/ME
15335
Notes: Mo-Fr
- 2000 Bulgaria—R Bulgaria: wEu
11720 9700
- 1955 China—China R Int'l: Af
9440 6955
- 2000 Costa Rica—AWR Pan America: Am
15460 13750
- 2200 Ecuador—HCJB: Eu
15540
- 1950 Germany—R Deutsche Welle: wAl/ME
13790 13690 11785 11740 9735
9670 7170
- 2300 Guatemala—AWR Pan America: LAm
5980
- 1930 Hungary—R Budapest: Eu
9835 7130 6140 3975
- 1930 Israel—Kol Israel: LAm/Eu/NAm
15640 15615 11605 9435 7465
- 2000 Japan—R Japan: GOS:As
9580 6035
- 2000 Japan—R Japan: GOS:NAm
9535
- 2000 Japan—R Japan: GOS:Oc
7140 6035
- 2100 Nigeria—V of Nigeria: wAf
7255
- 1956 Romania—R Romania Int'l: Eu
11940 11810 9610 9550
- 2000 Russia—V of Russia: World Service
15400 11945 11675 11630 9880
9480 7290
- 2000 South Korea—R Korea: GOS
7275 5975
- 2000 United Kingdom—BBC: Africa
17830 15400 9630 6190 6005
3255
- 2000 United Kingdom—BBC: Asia/Pacific
11955 9740

1900

- 2000 United Kingdom—BBC: Europe
12095 9410 6195 6180 5975
3955
- 2000 USA—VOA: Africa
15580 15445 15410 12040 11920
7415 7375 6035
- 2000 USA—VOA: eAs/seAs/Pac
15180 11870 9525
Notes: primarily to Pacific region
- 2000 USA—WSHB: wAl
17510
- 2000 USA—WYFR: Eu/Al
21745
- 1925 Vietnam—V of Vietnam: Eu
15009 12020 9840
Notes: #2 alt

1930

- 2100 Australia—R Australia: As/Pac/PapNG
12080 11880 11660 11640 9860
9580 7330 6150 6080
- 2000 Austria—ORF: Al/ME
13730 9665
- 2027 Iran—V of Islamic Rep of Iran: Eu
9022 7260
- 2000 Mongolia—R Ulan Bator: Eu
12085 9745
- 2025 Netherlands—R Netherlands: s&e&wAf
17605 15315 11655 9895 9860
7205 7120
- 2025 Poland—Polish Radio Warsaw: Eu
7285 6135 6095
- 2000 Sweden—R Sweden: Eu/Al/ME
6065

1935

- 1955 Italy—RAI Eu
7235 6030

1938

- 1953 Denmark—R Denmark: Al/Eu/NZ
15220 13805 11860 7520
Notes: 1st Su/mo

1950

- 2010 Vatican State—Vatican Radio: Eu
7250 5880 4005
Notes: European 1st pgm

1953

- 2306 New Zealand—R New Zealand Int'l: Pa
11735
Notes: Su-Th|Fr 2007- |Sa 1959-

2000

- 2100 Algeria—R Algiers Int'l: Eu/ME/Al
15160 11715
- 2059 Canada—R Canada Int'l: Af/Eu
17870 17820 15325 15150 13670
13650 11690 7235 5995
- 2055 China—China R Int'l: Al/Eu/ME
15110 11715 9920 9440 6950
- 2027 Czech—R Prague: sAs/Aus/Eu
11600 5930
- 2050 Germany—R Deutsche Welle: Eu
9615 7170
- 2010 Greece—V of Greece: Eu
7430

2000

- 2100 Indonesia—V of Indonesia: Eu
9525
- 2100 N Mariana Is—KHB: NZ
11860
- 2050 North Korea—R Pyongyang: ME/Al
9975 9640
- 2050 North Korea—R Pyongyang: Eu
9345 6575
- 2030 Norway—R Norway Int'l: NZ
9590
Notes: Su only
- 2030 Portugal—R Portugal: Al/Eu
15515 9815 9780 6130
Notes: Mo-Fr
- 2100 Russia—V of Russia: World Service
11675 11630 9665 9480 7240
- 2015 Sierra Leone—SLBS:
3316
Notes: News
- 2030 Switzerland—Swiss R Int'l: Al/Eu
11640 9905 9885 9770 6165
- 2100 United Kingdom—BBC: Africa
17830 15400 11835 9630 6190
6005 3255
- 2100 United Kingdom—BBC: Americas
11750
- 2100 United Kingdom—BBC: Asia/Pacific
11955 9740
- 2100 United Kingdom—BBC: Europe
12095 11835 9410 7325 6195
6180 3955
- 2100 USA—KJES: Carib
15385
- 2200 USA—KWHR: As
15405
- 2100 USA—VOA: Africa
17755 17725 15580 15445 15410
11855 7415 7375 6035
- 2200 USA—WSHB: wEu
13770
- 2100 USA—WSHB: Eu
11550
- 2200 USA—WYFR: Eu/Al
21525 17845 17845
- 2030 Vatican State—Vatican Radio: Af
11625 9645 7365

2005

- 2105 Syria—R Damascus: Eu
15095 12085

2015

- 2045 Swaziland—Trans World Radio: sAf
3200
Notes: Su

2025

- 2045 Italy—RAI: ME
11840 9710 7110

2030

- 2100 Armenia—R Yerevan: Eu
11615 9965
- 2200 Egypt—R Cairo: wAl
15375
- 2100 Moldova—R Dniester Int'l: Eu
11750
Notes: Mo-We-Sa, repeat Th
- 2125 Netherlands—R Netherlands: wAf
11655 9895 9860

Schedules

UTC Start & End | Country—Station: Target | Frequencies and Notes

2030

- 2130 Slovakia—AWR Europe: cAI
9455
- 2100 Sweden—R Sweden: Eu/Al/ME
9655 9430 6065
Notes: Sa-Su
- 2055 Vietnam—V of Vietnam: Eu
15009 12020 9840
Notes: #2 all
- 2100 Yugoslavia—R Yugoslavia: Aus/EU
7230 6100

2038

- 2053 Denmark—R Denmark: NZ/Eu/ME
9590 7485
Notes: 1st Su/mo

2045

- 2230 India—AIR: GOS/AusNZ/wEU
15225 11715 11620 9950 9910
7410

2100

- 2130 Australia—R Australia As/Pac/PapNG
13745 11880 11695 11640 9860
9660 9645 9580 6080
- 2125 Belgium—R Vlaanderen Int'l: Eu
5910
- 2200 Bulgaria—R Bulgaria: wEU
11720 9700
- 2129 Canada—R Canada Int'l: Eu/Al
17820 15325 15150 13670 13650
11690 7235 5995
- 2155 China—China R Int'l: Al/Eu/ME
15110 11715 9920 6950
- 2130 China—China R Int'l: Eu
3985
- 2200 Cuba—R Havana: Eu/Al/ME
9550
- 2150 Germany—R Deutsche Welle: As/Pac
71155 11785 9765 9670
- 2150 Germany—R Deutsche Welle: wAl
15135 11765 9735
- 2130 Hungary—R Budapest: Eu
9835 7250 5935 3975
- 2200 Japan—R Japan: GOS:As
9560 9535 6035
- 2200 Japan—R Japan: GOS:Oc
11850
- 2110 Japan—R Japan, Reg Svc: seAs
11685 9570
- 2200 N Mariana Is—KHBI: Aus
13840
- 2156 Romania—R Romania Int'l: Eu
9690 7195 7105 5990
- 2200 Russia—V of Russia: World Service
11750 11630 9710 9665 9480
7350 7250 7240
- 2200 South Korea—R Korea: Eu
15575 6480
- 2200 Spain—R Exterior de Espana: Al/Eu
11775 6175
- 2200 Ukraine—R Ukraine Int'l: Eu
9550 7150
- 2200 United Kingdom—BBC: Africa
11835 9630 6190 6005 3255
- 2200 United Kingdom—BBC: Americas
13660 11750 9825 5975
- 2200 United Kingdom—BBC: Asia/Pacific
11955 9740 6195 6120 5990
3915

2100

- 2200 United Kingdom—BBC: Europe
11835 9410 7325 6195 6180
3955
- 2130 USA—VOA: Africa
17725 15580 15410 13710 7415
7375 6035
Notes: Su-Fr 2200
- 2200 USA—VOA: eAs/seAs/Pac
17735 15185 11870
Notes: primarily to Pacific region
- 2200 USA—VOA: ME/nAl/Eu
10454L 9760 9535 6040
- 0100 USA—WEWN: NAm
13615 7425
- 2400 USA—WEWN: Eu
5825
- 2200 USA—WSHB: eNAw/Eu
11550
- 2130 Yugoslavia—R Yugoslav: Eu
6185 6100

2105

- 2205 Syria—R Damascus: NAm/AusNZ
15095 12085

2115

- 2245 Egypt—R Cairo: Eu
9900

2130

- 2200 Australia—R Australia As/Pac/PapNG
17860 17795 13755 13745 11695
11640 9660 9645 9580
- 2200 Finland—R Finland: Eu
6120
- 2200 Guam—KSDA: As
15310
- 2227 Iran—V of Islamic Rep of Iran: seAs
6175
- 2200 Sweden—R Sweden: Eu/Al/ME
9655 9430 6065

2138

- 2153 Denmark—R Denmark: Greenland/seAs/A
9590 9495 7205
Notes: 1st Su/mo

2200

- 2230 Australia—R Australia As/Pac/PapNG
17860 17795 15365 13755 13745
11855 11695 9660 9645 9580
- 2259 Canada—R Canada Int'l: Carib/USA
13670 9755 5960
- 2229 Canada—R Canada Int'l: Carib/USA/se
15305 13740 11705
- 2255 China—China R Int'l: Eu
9880
- 1200 Costa Rica—R for Peace Int'l: LAm/N
7385 6205U
- 2300 Cuba—R Havana: Eu/Carib/sUSA
9505U 6180
- 2225 Italy—RAI: As
11815 9710 5975
- 2300 N Mariana Is—KHBI: Japan/Kor/CIS
13840
- 2300 N Mariana Is—KHBI: China
9430
- 2230 Norway—R Norway Int'l: Aus
9495
Notes: Su only

2200

- 2300 Russia—V of Russia: World Service
11750 9665 7250 7240 7125
- 2210 Sierra Leone—SLBS:
3316
Notes: News
- 2300 Slovakia—AWR Europe: wAl
9455
- 2300 Taiwan—V of Free China: Eu
17750 15600
- 2250 Turkey—V of Turkey: NAm/Eu/Aus/As
9655 9655 9560 7280
- 2400 United Arab Emirates—V of UAE: NAm
9770 9695 9605
- 2300 United Kingdom—BBC: Africa
11835
- 2300 United Kingdom—BBC: Americas
11750 9915 9590 6175 5975
- 2300 United Kingdom—BBC: Asia/Pacific
11955 11695 7110 6195 5905
- 2300 United Kingdom—BBC: Europe
11835 9410 6195 3955
- 0400 USA—KWHR: As
17510
- 2230 USA—VOA: Africa
7415 7375 7340 6035
Notes: Mo-Fr
- 2400 USA—VOA: eAs/seAs/Pac
17820 17735 15305 15290 15185
11760 9770 9705 7215
- 0400 USA—WHRI: Eu
5745
- 2300 USA—WSHB: wEU
7510
- 2300 USA—WSHB: Brazil
13770
- 2300 USA—WWHA: Al
5850
Notes: Mo-Sa | Su -2400
- 2400 USA—WWCR: Eu/ME/nAl
9475
Notes: tx #1
- 0100 USA—WWCR: Eu/ME/nAl
7435
Notes: tx #4
- 2300 USA—WYFR: Eu/Al
21525 17845
- 2300 Vatican State—Vatican Radio: Eu
4005

2203

- 2210 Croatia—Croatian Radio: NAm/Eu
13830 7165 5895
Notes: News

2230

- 2300 Austria—ORF: Eu
6155 5945
- 2257 Czech—R Prague: wAl/NAm
9430 7345

2238

- 2253 Denmark—R Denmark: eNAw/seAs/Aus
9485 7490 7275
Notes: 1st Su/mo

2240

- 2250 Greece—V of Greece: Aus
9425

Schedules

UTC Start & End | Country—Station: Target | Frequencies and Notes

2245

0045 India—AIR: GOS/As
11660 11620 9950 9705 7155
2305 Vatican State—Vatican Radio: As/Aus
11830 9600 7305

2300

2400 Bulgaria—R Bulgaria: NAm
9700 7480
2329 Canada—R Canada Int'l: Carib/LAm/NA
15305 11940
Notes: Mo-Fr
2359 Canada—R Canada Int'l: Carib/LAm/NA
15305 13670 11940 9755 5960
Notes: Sa&Su
0100 Costa Rica—AWR Pan America: Am
13750 9725 7375 6150 5030
0030 Egypt—R Cairo: NAm
9900
2350 Germany—R Deutsche Welle: eAs
12045 9690 7235 5980
2400 Guam—KSDA: seAs
11775
2400 Guatemala—AWR Pan America: LAm
11775
2400 Japan—R Japan: GOS:As
9560 9535
2400 Japan—R Japan: GOS:Oc
11850
2400 Japan—R Japan: GOS:Eu
5965
2400 N Mariana Is—KHBI: Indon
13625
2400 N Mariana Is—KHBI: China
9430
2350 North Korea—R Pyongyang: Am
13650 11700
2356 Romania—R Romania Int'l: NAm/Eu
11940 9625 9570 7135
2400 Russia—V of Russia: World Service
11750 9665 7240 7125
0300 South Africa—Radio 2000: nwCape
3320
2350 Turkey—V of Turkey: Eu/NAm
11810
2400 United Kingdom—BBC: Americas
11750 9915 9590 7325 6175
5975
2400 United Kingdom—BBC: Asia/Pacific
11955 11945 9580 7250 7110
6195
2400 USA—WEWN: SAm
7520
0300 USA—WRNO: NAm/CAm
7355
2400 USA—WSHB: sEu/wAf
7510
2400 USA—WSHB: SAm
13770
1100 USA—WWCR: Eu/ME/nAf
5065
Notes: tx #3

2301

2210 Croatia—Croatian Radio: Eu
7165 5895
Notes: News

2307

0458 New Zealand—R New Zealand Int'l: Pa
15115
Notes: Su-Th | FrSa 2259-

2330

2400 Australia—R Australia: As/Pac/PapNG
17860 17795 15365 15240 13755
13745 11695
2400 Australia—R Australia: As/Pac/PapNG
13605 11855 9850 9660 9645
9580
2355 Belgium—R Vlaanderen Int'l: SAm/NAm
9925 9925
0025 Netherlands—R Netherlands: eNAm
9845 6165 6020
2355 Vietnam—V of Vietnam: Eu
15009 12020 9840
Notes: #2 alt

2335

2345 Greece—V of Greece: LAm
11640 9395 7450

2338

2353 Denmark—R Denmark: SAm/CAm/Carib/sa
9525 7465 7275
Notes: 1st Su/mo

2355

2400 Japan—R Japan: Reg Svc:As/Aus
11685 9570

New from Gilfer Shortwave



Active Receiving Antennas for HF and VHF/UHF

Dressler ara 40 HF Active Antenna

Dressler's newest HF antenna, designed as a low-cost match for portable receivers (Grundig Satellit 700 & YB400, Sony ICF-2010 & ICF-7600G, etc.) as well as low-end table-top models (Lowe HF-150, Yaesu FRG-100, etc.). Similar design to the ara 60 antenna but with reduced gain (approx. 3 dB) to avoid overloading of sensitive portable receivers. Constructed from anodized aluminum, with a fiberglass whip antenna element. Includes adjustable attenuator (0-20 dB). Install indoors or outdoors. Requires 12VDC power supply (optional)

Gilfer Price: \$199.95 (+\$10 s&h) Order #D04240

Dressler ara 60 HF Active Antenna

Better than ever, the newly redesigned ara 60 offers more gain and better performance than the ara-40, making it the perfect partner for high-end receivers such as the Drake R8A, JRC NRD-535, Watkins-Johnson HF-1000, etc. Featuring superior strong-signal handling capability, +50dBm third-order intercept point. The 95 cm (approx. 3 ft.) fiberglass whip element feeds a low-noise FET transistor followed by a wideband impedance transformer in order to pick up weak signals without excessive loss. An ultralinear final amplifier then amplifies the signal further for a maximum overall gain of 10 dB (± 0.2 dB). An adjustable attenuator (0-20 dB) allows reduction of gain in event of overloading. Requires 12VDC power supply (optional)

Gilfer Price: \$269.95 (+\$10 s&h) Order #D04260



Dressler ara 2000 VHF/UHF Active Antenna

The successor to the popular ara 1500 model which was the number one wideband VHF/UHF active antenna, the new ara 2000 utilizes a GaAs-FET amplifier for maximum gain (11-13 dB up to 1.5 GHz) and minimum noise figure (1-2.5 dB), while delivering excellent third-order intercept point performance (+40 dBm below 500 MHz, +43 dBm above 500 MHz). Coverage from 50-2000 MHz, circular polarization, N-type coax connectors. Housed in a UV-resistant cylinder less than 18 inches tall and about 3.5 inches in diameter, the ara-2000 is easily hidden from landlords and neighbors! Includes mounting hardware and 15 meters of RG-58 coax cable. Requires 12VDC power supply (optional). We highly recommend this antenna for use with the Icom IC-R7000/R7100, AOR and Realistic Scanners, and any other wideband receivers.

Gilfer Price: \$269.95 (+\$10 s&h) Order #D04220



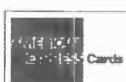

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