

NASA

the
JOURNAL

NORTH AMERICAN SHORTWAVE ASSOCIATION

VOLUME XXXVIII NUMBER 4

APRIL 1998

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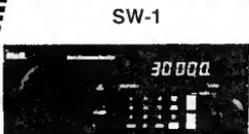
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This huge 472 page Third Edition includes over 770 shortwave and amateur communications receivers made from 1942 to 1997. Here is everything you need to know as a radio collector or informed receiver buyer. Entry information includes: receiver type, date sold, photograph, size & weight, features, reviews, specifications, new & used values, variants, value rating and availability. Ninety eight worldwide manufacturers are represented. 840 Photos. Become an instant receiver expert!

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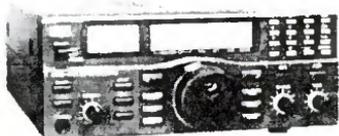


The AR7030 has been targeted to handle strong signals that are of prime concern to European listeners. It offers greater than -35dBm IP3 (Intercept point 3) and greater than 100 dbm dynamic range. This coupled with excellent selectivity make the AR7030 a strong choice for the shortwave broadcast listener or DXer. Although performance is excellent, features have not been forgotten. You get: Synchronous AM, Passband Tuning, six levels of attenuation, dual VFOs and 24 hour clock-timer. The 100 scannable memories store frequency, bandwidth, PBS, Squelch and BFO settings. The two line 48 character backlit LCD gives you the status of the receiver. The supplied full-featured 32 button infrared remote provides access to virtually all facilities including: volume, tone, numeric keypad, memories, PBT, filter selection, etc. A remote RS-232 port (DIN) is also provided for computer control. Made in England. Includes 120 VAC wall transformer.

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NASWA Notes

Richard A. D'Angelo

2216 Burkey Drive

Wyomissing, PA 19610

Genie: R.DANGELO3

Internet: r.dangelo3@genie.com

The 11th annual Winter SWL Festival is now history. About 175 radio enthusiasts gathered in Kulpsville for the premier radio listening event in North America. Although the crowd size was down somewhat from prior years, the excitement and enthusiasm of the group was at the same high level as prior years. Special thanks go out to the organizers (Messrs. **Brown, Cones, and Field**), the forum presenters, the companies that donated prizes for the raffle, and all the "behind the scenes" folks that make such an event possible. A special thank you goes out to **Fred Kohlbrenner and Ed Mauger** for manning the club's table. Another great job guys! It's not too early to begin planning to attend next year's FEST. It is schedule to be held March 12-14, 1999. See you there!

Congratulations to NASWA member **Dan Ferguson** who was selected as "DX'er of the Year" by the Association of North American Radio Clubs. Dan's contributions to this club and the hobby have been enormous over the years. In recent years he has managed to place powerful VOA transmitters on exotic tropical band frequencies to the dismay of many radio hobbyists, hi! Nevertheless, Dan has been an outstanding contributor to the good of the hobby for over three decades. Congratulations Dan!

The club's latest version of the *Country List and Awards Program* booklet is selling like "hotcakes." Because of the demand, a fresh batch had to be printed. It can be ordered direct from the Company Store (705 Gregory Drive, Horsham, PA 19044) for only US\$3.00 in North America. The booklet is 3-

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. Net Controls Dave Kirby N1DK, Hausie WB4JSP, and Bob Curtis W1EXZ host an always lively gang of DX monitors. (Best heard in the eastern half of NAm) Net info is also available at <http://www.trsc.com/swl_net.htm>. If you miss the net, you can hear it in RealAudio on the Internet, on Dave Kirby's home page, <<http://www.ncweb.com/users/dkirby/>>. Dave also posts text versions of loggings.

hole punched in an 8 x 11 format which allows for easy updating. The list utilizes a user friendly format which should make it more attractive to newer members and old timers alike. This is essential material for any serious shortwave listener.

Thanks to **Ralph Brandt** the Boston Area DX'ers (the Boston NASWA Chapter) have a new home for their web site. Ralph and BADX webmaster **Steve Byan** worked closely, with some heavy lifting by **Tom Walsh**, to move the site to its new location. The new URL for the BADX guys is <<http://www.anarc.org/naswa/badx/>>. Check them out while browsing the web.

Our Motto is - "Unity and Friendship"

Contribute!

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

Our friends at the **Ontario DX Association** (ODXA, P. O. Box 161, Station A, Willowdale, Ontario M2N 5S8, Canada or e-mail at 70400.2660@compuserve.com) invite all radio enthusiasts of all interests and all levels to join them for Radio Fest 98. This 1998 convention of the ODXA promises to be one of the best events in recent years for radio hobbyists. It will be held from Friday, October 2 through Sunday, October 4 at the Mohawk College, Hamilton, Ontario. The theme will be "Communications Into Our Future." Topics to be covered include: Antenna Basics; Mediumwave Loop Building Workshop; History of Canadian Radio; Introduction to Shortwave Radio; Game Show (a fun event for everyone); Radio Astronomy. Follow the Calendar of Events for more details as they become available.

The March 1998 edition of the popular and authoritative *Australian Shortwave Guide* is now available for worldwide distribution. Included in this issue is the Australian High Frequency Spectrum Study (#4) and many hundreds of entries of SW broadcasting sta-

tions ACTUALLY monitored in Australia during January and February 1998, from 2300-10000 kHz, between 0000 and 0400 UTC, giving times heard, languages, broadcast days, txer sites, and distances (shortpath and longpath). There is a special "DXing Malaysia" feature. The Guide is packed with up-to-date information, commercially printed, A4 format, saddle stitched and contains promotional messages from a number of monitoring Clubs, commercial organizations, and publisher. It is available for US\$7.00 cash from **Bob Padula**, 404 Mont Albert Road, Surrey Hills, Victoria 3127, Australia.

Don't forget to check out the latest news from the NASWA Laboratory in **Joe Buch's** Technical Topics column. Every April, Joe provides the membership with the latest in technology advancements straight from our own lab.

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



FRENDX: Twenty Five Years Ago....

In the Loudenooper Report, Charlie writes about hearing and not hearing "sub-audible harmonics." The Shortwave Center featured an excellent report about Shortwave Broadcasting in Guatemala by Gregg Calkin, an interview with Perry Ferrell of Gilfer Shortwave, and The Adventures of Shortwave Ohms by Ralph Perry. The QSL Report included rare verifications from Azad Kashmir, Guinea, Mauritius, Yemen, Zaire, and Zanzibar. Larry Magne's clandestine station of the month was Radio Free Russia. Dan Ferguson notes that Warren Nordgren asked to be relieved of Awards Program duties. Members were asked to hold off applications pending the appointment of a new Awards Chairman. Friendx Fotos featured Charles Wootten and Mike Agner.

NASWA

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

Calendar Of Events

- Apr 17 Meeting. Philadelphia Area NASWA Chapter.** Kulpsville Holiday Inn, Kulpsville, PA at 7:30 PM. For more information contact Dan Cashin at 215-446-7831.
- Apr 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 978-470-1971 or Internet: 74007.3434@compuserve.com. The URL for the BADX guys is <<http://www.anarc.org/naswa/badx/>>.
- Apr 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.
- Apr'98 Convention.** The 35th Annual International World Wide Continental DX Association (IWWCDXA) will be held in Tahiti at the Charlie Loudenboomer Estate on April 1, 1998 from noon until midnight. Charlie will lecture continuously during this 12-hour period on a variety of boring subjects some of which may actually pertain to shortwave radio. Registration fee is a modest \$150.00 with an extra \$50.00 charge for the traditional hamburger helper banquet. More information is available from Charlie at <cl@sucker.com>.
- May 8 Meeting. The Tidewater SWL's** meet at 6:30 PM. For more information plus meeting location contact Joe Buch at joseph.buch@dol.net
- May 8 Meeting. The Cincinnati/Dayton Monitoring Exchange (MONIX)** meet at the Lebanon Citizens National Bank on U.S. Route 42 in Mason at 7:00 PM. For more information contact Mark Meece at 513-777-5296 or e-mail at <mmeece@siscom.net>. For additional information about MONIX, check out their web site at <<http://www.siscom.net/~mmeece/monix.html>>
- Jul'98 Convention. The 4th National Meeting of Mexican DXers** will be held in Tehuacan, Mexico on 31 July-2 August. All shortwave listeners and broadcasters throughout Mexico and around the world are invited. A basic knowledge of Spanish will be helpful, as most convention activities will be conducted in Spanish. For more information contact Jeff White, coordinator of international attendees, c/o Radio Miami International, P.O. Box 526852, Miami, Florida 33152 USA, Telephone: +1-305-267-1728, Fax: +1-305-267-9253, E-mail: wrmi@compuserve.com.
- Aug'98 Convention.** The 36th annual European DX Council conference will be held in Gothenburg, Sweden on 28-31 August 1998. It will be organized by the Swedish DX Federation. More details to follow.
- Oct'98 Convention. Radio Fest 98** will be hosted by the Ontario DX Association (ODXA, P. O. Box 161, Station A, Willowdale, Ontario M2N 5S8, Canada or e-mail at 70400.2660@compuserve.com) at the Mohawk College in Hamilton, Ontario on 2-4 October 1998. The registration fee is \$15.00 for the entire convention and \$5.00 for one-day.
- Mar'99 Contest. 1999 North American DX Championships.** Further information will be published in the Journal or you can send a self-addressed stamped envelope to 1999 NADXC, c/o Dr. Harold Cones, 2 Whits Court, Newport News, VA 23606.
- Mar'99 Convention. The 12th Annual Winter SWL Festival** will be held at the Kulpsville Holiday Inn (Exit 31 on the Northeast Extension of the Pennsylvania Turnpike) on 12-14 March 1999. Organized by the infamous "gang of three" (Messrs. Brown, Cones, and Field) this all wave gathering attracts about 200 hobbyists each 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: ralph@mcs.com).

Musings

This column provides a forum wheras members can express comments, ideas, and thoughts about NASWA or the SW radio hobby. Please feel free to comment on anything presented this month (or previous months). Opinions expressed here are are soley those of the submitters. Please submit all Musings to Richard A. D'Angelo, 2216 Burkey Dr., Wyomissing, PA 19610 or via email - r.dangelo3@genie.com

Benton Owsley <DingoD5361@aol.com>

I would like to submit to you the most recent clandestine possible pirate station that will be airing the airwaves...It's Radio Free Sour Grapes.

Every year I look forward to the competition of the NADXC that's the North American DX Championships. But this year unfortunately I won't be able to participate according to a new rule that is in place. As I am not eligible. No, I am not a member of the NADXC Administrative committee. But I have been fortunate enough to have won twice in the last 5 years. I truly enjoy the competition of it and feel there should be more contests to support our hobby as a whole. This is a new rule and well I do feel singled out. I feel it should be open to everyone of course with the exception of course the committee and judges, that only makes sense.

If you look at the contest in a Olympic sort of view, you don't stop them from competing because they have won a couple of gold medals in the past. Or if in view of football do we not let the Denver Broncos play next year?

Well enough said I am usually pretty easy going but I am going to miss staying up at all hours with lack of sleep and tweaking my antenna and ears to the limit.

But for the rest of you competitors if you are tuning around and hear a faint crackle of Radio Free Sour Grapes...remember that counts as 1 point in your competition.

Sincerely, Benton Owsley, Operating Mgr. Radio Free Sour Grapes

Maryanne Kehoe <atlsvo@webtv.net>, Atlanta, Georgia.

I wish to thank everyone who attended the recent Winter SWL Fest for the warm reception and hospitality that was extended to Estelle Winters from Voice of Russia during her visit. Also, I personally wish to thank the many individuals who came up to me and thanked me for my efforts, as well as those that have emailed me at home with your kind comments.

This hobby has been very kind to me over the past 25 years, and this was just a small way for me to "give back". Working on this for the past year was an incredible experience, not always easy, but good things never are. (Kind of like working in the IBC during the Olympics!)

To whoever is thinking of doing what I did for 1999 (and taking the task off the hands of the Gang of 3!), I wish you good luck, as if you start early, as in right now, you will be in for a year you will not soon forget and it will all have been worth the effort on the night of the Banquet next year. Don't forget to lean on your friends when things get a bit rough (and they will), if problems do come up, seek first to understand then to be understood, and always have the end goal in mind.

Also, a special thanks, if one were to know such things, for the invitation from Pancho Villa and his crew to Estelle and me to witness their midnight ride...

NOW, it's time for me to put my feet up-for a short while at least!

Easy Listening

John Figliozi
45 Algonquin Road
Clifton Park, NY 12065-7703
Internet: jfiglio1@nycap.rr.com

Rich Cuff and I enjoyed seeing many of you at the SWL Winterfest last month. The weather was cold, but so was the beer and the atmosphere at the Holiday Inn was warm with the many old and new friendships generated by this great old hobby of ours. And this sort of transitions very nicely into the new season.

Because for shortwave, the beginning of the year might as well be April. It has become the month with the most changes to both program and frequency schedules and 1998 does nothing to change that impression. In the space provided, we'll attempt to provide as much information about these changes as we can this month and follow up as necessary in May. Let's get right to it.

On BBC World Service This Month

Listings are for the Americas/Europe stream. Frequencies for North America at different times of the day include 5965, 5975, 6175, 6195, 9515, 9590, 9895, 11865, 15220 and 17840. In a few cases, programs can be heard on frequencies intended for Europe. These are denoted with an * and these frequencies are listenable in parts of North America at times: 6180, 6195, 9410, 12095, 15485, 15565, 15575, 17640 and 17705.

The once staid and solid BBC schedule has become quite unpredictable over the past few years. In one sense, this is understandable as the **World Service** attempts to cope with a more competitive broadcasting environment and respond to the stated needs of its listeners. On the other hand, the quickest way to tork off a committed listener is to monkey around with his or her favorite programs. Judging from the number of letters **Write On** receives complaining about the new penchant for indecipherable schedule lurches, plenty of listeners object. Yet the

BBC persists and continues to make seasonal....

Changes in the Timing of Regular Programs

The next page contains a chart detailing *only those broadcast times of regular BBC programs that have changed:*

As the chart demonstrates, a lot of listening patterns are affected. It seems to this observer that such a massive disruption is wholly unwarranted when weighed against the paltry number of American public radio stations carrying these **BBC** programs, for whose convenience these timing shifts are ostensibly made. Anyway, we move on.

The World Today

You will recall that last month you were informed of a change in the name of the long-running program **The World Today** to **Insight**. Well, **The World Today** is back, but in a different guise. (Curiouser and curiouser...) As of March 30, the **BBC** has launched a new morning rush hour program designed primarily for Europe. The poster for the new program is an orange slice with the words "**The World Today** for Europe" bannered across the top and the words, "The fresh approach to morning news" along the bottom. The program is the result of extensive research, which revealed that the **BBC's** European audience had tired (at least in the morning) of the short form programs that dot the **BBC** schedule and desired a continuous program focused on Europe. It will be fronted by a two-presenter team and will run continuously for **Europe on Mondays through Fridays from 0330 to 0600**. Two half-hour segments highlighting world news will be broadcast on frequencies for the **Americas and Africa at 0400 and 0500**. The clear emphasis will be on Europe during the remainder of the program. If you wish to hear it in its entirety, try one or more of the frequencies for Europe listed above.

Program	moves from	to	on
A Jolly Good Show	0730	0630	Sun.
Assignment	0330	0530	Fri.
Discovery	0630	0530	Tue. thru Sat.
Europe Today	1700 (Sun. thru Fri.)	1600 (Mon. thru Fri.)	
Features block	1730	1701	Sun.
	0530	0430	Mon.
	0330	0530	Thu.
	1615	1730	Fri.
Features blocks	are added at	0615	Mon.
	0630	Tue.	
From Our Own Correspondent	1615	1730	Wed.
	1730	1930	Sat.
Health Matters	is added at	0715	Sun.
In Praise of God	0630	0530	Sun.
Insight	1630	1715	Mon. thru Fri.
	0430	0330	Tue. thru Sat.
Insight	is added at	0615	Tue. thru Sat.
Jazzmatazz	0530	0730	Sun.
The Learning World	0345	0545	Thu.
Letter from America	0715	0615	Sun.
Music Brief	0555	0455	Thu.
News Summary	1700 (Sat.)	1700	Sun.
Off the Shelf	0445	0345	Tue. thru Sat.
One Planet	0330	0530	Wed.
Outlook	0530	0430	Tue. thru Sat.
Play of the Week	0630	0530	Sun.
Record News	1615	1730	Thu.
Science in Action	0330	0530	Sat.
Science Extra#	1615	1730	Tue.
Science View	0555	0455	Fri.
Seven Days	1615	1730	Mon.
Short Story	0030 (Mon.)	0145	Sat.
Spotlight	0555	0455	Sat.
Take Five	0555	0455	Tue. and Wed.
Weekend	1701	1715	Sat.
Westway Access	0930	0030	Mon.
Westway Compilation	0430	0330	Mon.
The Works	0330	0530	Mon.
World Business Report	1730	1630	Mon. thru Fri.
World News	1600	1700	Mon. thru Fri.
Youth feature	is added at	1730	Sun.

In addition, *Newsday* at 0600 daily is replaced by a 15 min. *World News* bulletin. *Sports Roundup* at 1745 on Sun. is dropped. *The Learning Zone* series are no longer broadcast on the Americas/Europe stream.

#*Science Extra* now consists of *Seeing Stars*, the monthly astronomy report airing the first week of the month, and *Soundbyte*, a program on computers and computing, which now airs the other three weeks of the month. The nature program, *Wildtrack*, has been discontinued. *Waveguide* now airs the *third week of each month* in new time periods: *Thu. 0545*, repeated *1130 and Fri. 0915*.

New in April...

A five-part series that begins on *March 28, 30 and 31 and April 3*, ***Beyond the Millennium*** features Sheena McDonald talking with five visionary thinkers about what life will be like in the year 2010. (*Sat. 0130*; repeated *Mon. 0615, Tue. 0915 and Fri. 1515*)

A four-part series which began *March 29 and 31*, ***Policy and Prejudice*** examines Bosnia's fragile peace since the Dayton accords. It was first broadcast a year ago but has been updated to include in the final program a discussion of the way ahead for Bosnia. The first three programs consider how key Western statesmen addressed Balkan questions during the war in the early 1990s and critically look at the historical assumptions that shaped policy. (*Sun. 1401*; repeated *Mon. 0815*)

Commencing *April 1* in the slots usually occupied by Sports International is the ***World of Football***. It is a new weekly series that will continue until after the World Cup final. Sports journalists Simon Hill, Tim Maitland and Martin Fookes will have the latest news from all the countries to qualify for France '98. (*Wed. 0630*; repeated *1130*)

Beginning *April 3 and 4*, ***The New Europe*** is a series of thirteen programs that will consider the most significant issues facing Europe over the coming years and how they will affect Europeans everywhere. The boundaries of Europe, the states of the former Soviet Union, the single currency, the relationship between western and eastern Europe, the European identity, whether the idea of the nation state is obsolete in Europe, the risk posed by the far right, minority populations, the Common Agricultural Policy, Europe's relations with the rest of the world, its relations with the United States, the future of NATO are the topics to be considered in sequence. The last program will be a studio discussion on the way ahead for Europe. (*Fri. 1730*; repeated *Sat. 0615*)

Premiering *April 4 and 6*, ***Ain't No Mickey Mouse Business*** features a four-part examination of Disney's magic kingdom by Brian Sibley, who seeks the inside story on how the Disney company has come to be the most

successful and powerful entertainment company in the world. (*Sat. 1030*; repeated *Mon. 0430, 2130*)

On *April 7*, the ***Masterprize*** competition for new composers culminates in a ***Gala Concert*** of the six finalists' works. The live broadcast from the Barbican in London features the London Symphony Orchestra conducted by Daniel Harding. The winner of the competition as judged by listeners and a celebrity panel of judges will be announced at the Gala, as well. *Tune in at 1830**.

Commencing *April 12 and 14*, ***Negotiators*** is a four-part series which features psychiatrist Dr. Raj Persaud talking to people who have been involved in resolving hostage crises. (*Sun. 1701*; repeated *Tue. 0630, 1130*)

Starting *April 26 and 28* will be a series of eight programs serving as the World Service's first interactive phone-in using the Internet. ***Newstalk***, hosted by Robin Lustig, will afford listeners a range of means with which to contact the program both during and after the broadcast to join in the discussion with information and opinions about that week's subject. ***Newstalk*** is on the web at <<http://www.bbc.co.uk/worldservice/newstalk>>. (*Sun. 1401 [60 min.]*; repeated *Mon. 0815 [45 min.]*)

Some continuing series...

The ***Composer of the Month*** (*Thu. 0730*; repeated *Fri. 0130*) is Christoph Willibald Von Gluck. Paul Robeson is the featured artist on ***Performance*** (*Sun. 2310*; repeated *Wed. 1515, Thu. 0815*). The ***Play(s) of the Week*** (*Sat. 2230*; repeated *Sun. 0530, 1830**) are *The Prophetess of Exeter (4th/5th)*, *The War Diary of Hana Maria Pravda (11th/12th)*, *Abundance (18th/19th)* and an encore performance of the powerful *Spoonface Steinberg (25th/26th)*.

Some returning series...

Beginning *March 30 and April 3*, ***Pick of the World*** returns for a 12 week run with its offer of a chance to hear a favorite program from the week prior (*Mon. 0130*; repeated *Fri. 0630*). ***Blues World*** features Tony Russell playing the latest releases of this musical genre (*Mon. 1530*; repeated *Thu.*

0830). The youth series *Pop Science* returns with Janice Long and her studio of guest experts answering more science questions and playing listeners' favorite pop music. (Sun. 1730; repeated Mon. 1430, Tue. 0730) [Sources: BBC World Service Press Information, BBC On Air]

Radio Netherlands' New Season

(2330 on 6020/6165/9845, 0030 on 6020/6165/9845 and 0430 on 6165/9590. Feature programs described below commence 23 minutes into each broadcast.)

April at **Radio Netherlands** brings some small, but significant changes. First, *Music 52-15*, in which host Martha Hawley plays the music of new artists from around the world and explains the traditions from which they stem, moves to the *Tuesday 0053 and 0453* slots. This should give this excellent program the added exposure it deserves. Check it out! This season you can expect to hear music from Thailand, harps from Paraguay, Indian classics, Brazilian sambas, North American bluegrass and gospel and music from all over Asia.

A unique program about global development, *A Good Life*, with Ginger da Silva, also returns with a look at information technology and its impact on developing countries. The program retains its focus on the "little stories" of development taking place in the individual and on the village level. Big and small development is happening everywhere and *A Good Life* covers the gamut. Tune in on *Tuesdays at 2353* and *Saturdays at 0053 and 0453*.

A new and challenging arts program, *Aural Tapestry*, premieres this month hosted by David Swatling. The program will attempt to weave the threads of art, culture and history to create an—*Aural Tapestry*. April is highlighted by a new three-part series "Wake of the Halfmoon", a history of the Dutch colony of New Netherlands from 1609 to 1664. Tune in *Mondays at 2353*.

Documentaries

(Thu. 0053 and 0453; Fri. 2353)

2nd/3rd—*Holland America Line*. There is an enormous boom in ocean travel and nearly all of Holland America's ships have recently been reflagged and re-registered in The Netherlands, re-establishing old ties with the port of Rotterdam. Marijke van der Meer talks with some of the seven million former passengers, officers, crew members and historians about the transatlantic past.

9th–10th—*The Undesirables*. Eric Beauchemin reports from Romania and Bulgaria about the plight of the Roma and attempts by the Roma community and non-governmental organizations to improve their lives and futures.

16th–17th—*Day in the Life of the International Tribunal*. A look at the International Tribunal for the Former Yugoslavia in the Hague.

23rd–24th—*Children*. Veronica Wilson looks at how far society is prepared to go to enforce the rights of children.

30th/May 1st—*A Year of Kabila*. To mark the first anniversary of the ousting of Zaire's former dictator Mobutu Sese Seko, Eric Beauchemin travels to the Democratic Republic of the Congo to see how the situation has changed since Laurent Kabila took over power.

Media Network in April

(Fri. 0053 and 0453)

3rd—New premium global satellite phones and another in a series of reports on newcomers to mediumwave.

10th—Internet audio as an alternative to radio.

17th—National Association of Broadcasters (NAB) Convention coverage from Las Vegas.

24th—Media news from around the world.

31st—Another in a series of Vintage Radio specials: bakelite radios.

[Sources: *On Target* and Radio Netherlands web site <<http://www.rnw.nl>>]

That's all we can shoehorn into here this month. Until May, good listening! 

Shortwave Center

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Shortwave DXing From French Polynesia

By Bob Padula

In October 1997 I went on a 10-day holiday to French Polynesia, otherwise known as the Society Islands, staying at the heavily promoted Club Mediterranean resort on the western side of the island of Moorea.

Geography and History

Moorea is an island of volcanic origin, about 20 km to the north west of the island of Tahiti, with an area of about 3300 acres, 15 km long, and 12 km wide, and a circumference of 50 km. The highest mountain is Mt Tohia, 1200 m. Another peak is Mount Roa, 1000 m. called the Bali Hai in the film South Pacific. The lagoon, together with that of the nearby island of Bora Bora is one of the most beautiful in the Society Islands.

Moorea, like the other Polynesian islands, was populated by navigators who arrived in large double outrigger canoes from South East Asia about 100 years ago. Moorea was known as Aimeho in the 18th century. The name was changed due to a vision of a Great Priest of a beautiful yellow lizard on a "Marae", or "Moorea" in Tahitian. "Marae" are ancient stone or coral pyramid shaped constructions with seral stages, on which sacrifices sometimes occurred. The oldest "marae" in Moorea dates back to the year 900 and are clearly visible on the road to the mountain summit.

The first Europeans arrived during the early 18th century, including Captain James Cook in 1767, the Frenchman Antoine de Bougainville, and the Englishman Samuel Wallis.

The Protestant and Catholic missionaries converted the inhabitants who are still regular churchgoers. The French Protectorate was established in 1842. Since 1984, French Polynesia has a statute of internal self-government with a Territorial House of Commons, a Government, and President.

The international airport is at Papeete, the capital of Tahiti, and most flights arrive there in the middle of the night, as mine did at 1.30 am local time! It's two "hops" from Melbourne, flying Air New Zealand to Zealand, (3H hrs) then on to Papeete (4H hrs).

Local time in Moorea is four hours ahead of Melbourne time, UTC minus 10! It was extremely hot (40 degrees daily) and humid (100% humidity) most of the time I was there. Night-time temperatures didn't drop much below 30 degrees!

Club Med is a self-contained resort, on the main lagoon, and guests are accommodated in thatched bungalows, air-conditioning is through louvre windows and a single ceiling fan. Refrigerators, telephones, TVs, radios and electric clocks are not provided. Meals are taken in one of two restaurants locally centrally, buffet style, as much as you want. Breakfast is from 6am-9.30am, lunch from 12-2pm, and dinner from 7.30-10 pm.

There are no large towns on Moorea, and local industry is mainly confined to tourism, black pearls, vanilla production, and pineapple products. There is one main sealed road around the island; the entire area is mainly jungle and rugged mountains, the remains of the volcano peaks.

There are many holiday resorts, all offering similar services. Club Med is different, in that one is expected to participate in outdoor activities, such as snorkelling, swimming, walking (in 40 degree heat!), boating, and sunbathing. If you don't enjoy doing those things, don't go! There is no swimming pool at Club Med, unlike some adjacent resorts.

TVs or radios are not provided and live musical entertainment is offered every evening—French performers, augmented by resort staff and guests. Be warned—if you stay for longer than a week, the evening performances repeat and can get very boring! Put your earplugs on as the sound level is pretty high in the theatre. There was a grand fireworks display one night, to celebrate the French Revolution. Most of it was in French, with some Japanese and English thrown in for good measure. A rendition of the Can Can was most refreshing!

A half-day safari around the island was well worth it, as was a helicopter flight over the island and lagoon. Some friends and I hired a small boat and ventured several km along the coast with grand views of the Bali Hai mountain! Sorry but Captain Cook didn't meet us....!

On Shortwave

With me, I had the small Sangean portable, ATS808, running off four A4 cells, with 10 metres of antenna tossed into a nearby palm tree. Power line noise was negligible—electricity feeders were underground throughout the resort to the bungalows; there were no neon signs, no dimmers, no TVs, no heaters, no traffic lights, no telephones! Nearest road was about 500 m away. Our bungalow was right on the beach, overlooking the lagoon and coral reef. It was about 500 m to the main restaurant.

Moorea is about the same latitude as Rockhampton, and is closer to South America than it is to Australia! Sunset is about 6 pm (0400 UTC), and sunrise is around 5 am (1500 UTC). Latin American signals became audible at around 4.30 pm (0230 UTC) on 60 metres, with almost every channel

occupied! Brazilian stations are well heard throughout the day on 9 and 11 MHz, between 1930 and 0300 UTC (such as on 11805 9645 and 9565). I wasn't able to do much radio work between 0530–0900 UTC due to dinner and the evening entertainment.

Shortpath signals from the Indian subcontinent and Central Asia were very strong on 7 and 9 MHz at around 0200–0300 UTC (6–7 pm). Propagation was across the darkness track over northern Africa, the Atlantic, southern Brazil and via the south Pacific. Various FEBA Seychelles' outlets were excellent, broadcasting in the East African morning.

Good daytime signals were heard on 15, 17 and 21 MHz from Europe, Africa and the Americas from around 1700–0200 UTC (7 am–4 pm local), with propagation from the east across Central America.

The 60 metre band fades out at about 8 am (1800 UTC) and 6 MHz was gone by 9 am (1900 UTC). Many African signals were audible on 3 and 4 MHz up to 1800 UTC. During the daytime period, the 9 MHz band starts to open up at about 2200 UTC (noon) with many signals arriving from the east—R. Nacional, Paraguay on 9735 faded in at 2200 UTC. Several Middle Eastern stations were heard strongly at their sign-on between 0200–0300 UTC (6–7 pm Tahiti), such as Omdurman 7200, Doha 7210 and Abu Dhabi on 6170 and 6180. Tashkent was also well heard on 9540 and 7205 from 0200 UTC. Radio New Zealand was a very big signal during the evening, on 9700 kHz. Korean signals were also noteworthy in the evening on 7 MHz, fading in at about 0500 UTC (7 pm).

Conclusions!

Moorea is a nice place to spend a holiday, but after the first seven days, some of us were getting weary of the excessive heat and humidity, and no way of getting relief. The swimming, multi-colored fish, snorkelling and beach activities were great, but there's a limit! There's also a limit to how much sunburn I can tolerate; 30 minutes on the open sea even with T-shirt, cream and hat

gives SEVERE burns! Some guests spent a day in Papeete for shopping, but getting there is a pain, needing a taxi, then a light aircraft (or catamaran) for the 20 km crossing to Tahiti.

Put simply, shortwave radio reception was superb, mainly due to the almost complete

absence of human-made electrical interference, and during my stay there were no thunderstorms. The small Sangean was a good performer, with a small antenna, and whilst sensitivity may not be in the same class as the bigger communication sets, it was quite adequate for the job.

Bits and Pieces

from Hans Johnson

Shortwave Center Cheers—The Winter SWL Fest. This continues to be the best gathering for SWLers in the world.

The Dream Team—The new World Radio TV Handbook Staff. The WRTH has now been without a staff for months. Are they really hiring a new one or have we seen our last WRTH? Whoever is hired is going to have their work cut out for them, trying to put out the book in half the time available.

SADX folds its tent—The following paragraph appeared in an e-mail I just received from Piet Conradie, of South Africa. It is a quote from the next (and last) edition of the South African DX Club's listener magazine. Piet has been editing for the magazine for many, many years.

"The bad news this week is that, after 37 years, the South African DX Club has decided to throw in the towel. Last December a vacancy was advertised for the paid post of secretary, who also has the responsibility of doing the layout of the magazine, get it in time to the printers, and to the mailing distributor. No member in Johannesburg willing to do this could be found, and there was no other option but to terminate Club operations. After all debts had been settled, the balance of the Club funds will be refunded to existing members. I saw this coming, but I expected the Club to survive at least until September, so it was still a bit of a shock. Having done a current second stretch of 10 years with the club, I shall miss it for what it has meant for me—I have learnt much from the experience of other members." (via Rich Hankison)

Fine Tuning R.I.P.? Fine Tuning, the oldest shortwave newsletter in North America, appears to have given up the ghost. Hardly an issue has come out in the last six months and things don't look hopeful. Fine Tuning started in 1976 and it was a top notch DX newsletter.

Let's not forget for a moment how blessed NASWA has been over the decades in that we have always had a core of folks willing to handle various club functions, including the Journal.

Will Somebody turn on the sun—Reception is suppose to be improving with the new solar cycle supposedly underway. The numbers don't reflect this and neither does my reception, so will whoever turned off the sun please turn it back on.

Remote Radios—Sometimes controlled by telephone, more often computer-controlled, remote radios let you tune a set located elsewhere in the world. Andy Sennitt recalled in a recent issue of DX Window that he had used a remote set when back in 1974, when he was with BBC Monitoring. Several hobbyists have also set up sets. If you have a computer, the Internet, and realaudio, you can try these radio to. The most versatile of these is one run by Bob Arnold in upstate New York. His setup consists of a Kenwood TS-440 that listeners can remotely use. You can control the frequency, modes, etc. The best part about his set is that the audio stream is continuous, not just a short sample. You can try it yourself at:

www.ralabs.com/swl440/index.html

I enjoy this set. I often use it to compare reception between my current location in

Florida and New York. Bob also tunes the set the ANARC SWL net on Sunday mornings, so I don't miss this program any more. Listening to digitized audio is a bit different, particularly the static. You just have to get used to it, like we all did with analog interference. Of course, this opens a whole new can of worms for country counters and QSLs hunters. If my location stays the same, can I count countries and veries obtained through remote receivers? If the location of the receiver is paramount, then can I use a radio that stays in one place, but that I tune to as I travel around the world? (If the latter, look for my radio to be in Hawaii soon).

Andy Sennitt also expressed concerns in his DX Window piece that listeners wouldn't use such radio to "cheat." For those interested in "cheating" in a mere hobby, the means have been available for quite some time—whether it is made up logs or made up reception reports. At least listeners would have actually heard the station if they listened on a remote receiver. For myself, I would like to see more such radios, particularly overseas. Let's face it, only the luckiest of us will ever go overseas to DX. There are simply going to be stations that we are never going to hear, no matter how hard we try. Others of us are stuck in noisy locations where shortwave reception just isn't possible. Remote receivers simply allow listeners to hear things that we wouldn't hear otherwise. I enjoy using such receivers and that is what hobbies are all about—enjoyment. So pull up those URL and start hearing some stuff you aren't going to hear otherwise.

Is Real Audio the new DX Frontier? Real Audio, a term I use for receiving audio over the Internet, is coming up fast. Is this the new DX frontier? More and more stations are coming on the air. Here is the chance to hear stations and countries that you are never going to hear on shortwave. Fidelity is similar to AM and there certainly isn't any fading or interference. There are many similarities to shortwave DXing. Instead of a radio, we have a computer. Instead of frequencies, we have URLs. Guidebooks tell us where to tune for both. (If you are interested in real audio,

get a copy of Passport to Web Radio or check out a recent copy of DX Window). Listeners can hunt for new stations and share the results. For program listeners, real audio is also a welcome development. For years, I have done as much time shifting program listening as anyone else. While I still do some, I find myself going to the Internet more and more to listen to and record programs. Why? One big reason is that it is safer. I have dodged bullet after bullet by leaving my receiver plugged in, antenna connected, timer set to record a show. When I left in the morning the weather was fine, but it was storming before I got home. The Internet lets me grab these programs when I know it is safe to do so. It also lets me enjoy programs that I couldn't hear well otherwise. Instead of trying to hear New Dimensions Radio via RFPI, I simply go to their web site. With all that in mind, here is a real audio tip:

Radio Free New Orleans—isn't a pirate station, but it is a music service playing some great music out of a city famous for music. Each day features a different kind of music, from zydeco to gospel to jazz. You simply aren't going to find this music locally. A bonus is the announcer. His accent is pure New Orleans and lets the world hear that all Southerners do not sound like the characters out of *Deliverance*. So punch those keys to:

<http://www.neworleansonline.com/rfno/htm>

Radios wanted—For years, the C. Crane Company has given away radios to listeners requesting them. While C. Crane has been very generous in supporting the hobby this way, they need some help. They simply cannot fill all the requests that they have for radios. If you have an extra set around, why not donate it and open up the hobby to someone? You can reach the C. Crane at 1-800-522-8863 or email them at ccraneco@aol.com

Photographs wanted—Of you in that shack or in some other radio-related activity. Send them to me at the above address, and we'll run them here. 

Listener's Library

T. J. "Skip" Arey N2EI

P. O. Box 236

Beverly, NJ 08010

Internet: tjarey@mosquito.com

Okay so I'm basically a lazy person. Actually I'm spending the better part of the time normally devoted to this column to getting things packed for Kulpsville. Given the circumstances at hand, I was happy to see some stuff come across the Internet to help fill in the gaps.

I ran across Mike Crestohl's review on the rec. radio.shortwave newsgroup and, given that it had clear interest to our group, asked him for permission to reprint the text. Better he take a shot at the Italian than your humble column editor.

R-390/URR—R-390A/URR Handbook
By Paolo Viappiana, Editrice Il Rostro
Reviewed by Michael Crestohl

Okay—what am I doing writing a review in English of a book written in Italian? To make matters worse I don't have much knowledge of the language either!

Well, first of all I would like to state that there is enough information taken from the various US Army TM11s, charts, diagrams and figures that know no linguistic boundaries to make the Handbook worthwhile to someone who does not have access to the official documentation. Of course, some degree of familiarity with the language would be a great asset here or a friend who can help.

The fact that a writer in Italy chose to write a book about a forty year-old US military and government radio receiver really intrigued me but it only backs up the claim that these radios are extremely good for listening to the portion of the spectrum they cover—500 KHz to 32.000 MHz, AM and CW. Add-ons and circuit modifications will also make SSB signals intelligible but since most shortwave broadcasts are AM the receiver is popular

among serious hobbyists who like to tinker with their equipment.

The Handbook contains 20 Capitulos (Chapters) and covers a lot of ground; ie: technical data, modifications, history, trivia, statistics, lore and legend about this receiver. Paolo's work covers "la famiglia 390" which includes the R-389, R-390, R-390A, R-391 and R-392 and the differences between them, particularly the R-390, R-390A R-725 and R-1247. It is very convenient to have block diagrams and tube lists of both receivers in one book if you are interested in both models. One of the things it conveys very nicely is that the R-390 and R-390A receivers are VERY different. Paolo has included a detailed chart of contract numbers, contractors, years of manufacture and estimates how many were made in each contract. I am curious how accurate those production figures are, since Tom Marcotte, compiler of the on-line list has not publically speculated in the numbers, at least that I have seen.

As far as illustrations go, Paolo has borrowed liberally from the TMs and these are, of course, in English. There are mention of some of the officially modified models, such as with LSB and SSB, Diode Load output on the front panel and a whole chapter that lists the TM11s and NAVSHIPS manuals for all models and some sources for them. Also included is mention of the Boatanchors List on theporch.com and how to subscribe. There is a ten page bibliography or articles, mostly in English, with familiar and knowledgeable names like Kleronomos, Rippel, Langford that is extremely valuable and this compilation alone is well worth the price of the book.

I looked in the mods and did not see the very important C-553 mod to change the notorious Vitamin Q plate blocking capacitor on

the plate of V501 (1st IF amplifier) to a .01/600V Sprague "Orange Drop"—cheap insurance on your four Collins mechanical filters recommended by Chuck Rippe. In fairness to the author it may be in there somewhere and my ignorance of his language must be forgiven if this is the case.

The book is available directly from the publisher—write them at: Editrice Il Rostro di Patrizio Giovane & C., 20155 Milano, Via Monte Generoso 8 Italy, or Fax: 02-2133869. They will mail you a copy, enclosing an invoice for 35.000 Italian Lire which is about \$25.00 US. You must pay in Lire and can get from a bank or currency exchange.

I am hoping that the book will be translated into English one day. However, in my opinion THE R-390/URR HANDBOOK contains enough useful information that it is worth getting if no other detailed sources are available.

R-390/URR—R-390A/URR Handbook

Paolo Voappiani

Editrice Il Rostro

Milano (Italy)

1996

In Italian

ISBN: none

143 pages, paperbound

Radio Receivers, Short-Wave, Military, Collins Radio, R-390

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DISCLAIMER: I have no interest, financial or otherwise, in the success or failure of the book or materials reviewed herewith, nor have I received any compensation (other than a review copy requested by me) from anyone who has. All opinions expressed are strictly my own.

Other Internet and Aviation book/software reviews by me can be obtained by anonymous FTP from: x2ftp oulu.fi in the /pub/books/crestohl directory.

Last month Rich D'Angelo gave us a look at the TRANSMITTER DOCUMENTATION PROJECT. Since then Ludo Maes checked in with his own press release so I feel the club would like the additional information shared by this resource.

Press Release TDP SW-98

TDP Transmitter Documentation Project

February 2, 1998.

For the 5th year now, detailed information is available about transmitters used by short-wave radio stations around the world.

TDP SW-98—the Transmitter Documentation Project—has just come off the press in its fifth edition. TDP is the result of more than 15 years of research by Belgian DXer Ludo Maes, with the cooperation of well-known radio personalities, international organizations, publications, DX clubs and programmes, transmitter manufacturers and the radio stations themselves.

TDP is an 80-page booklet listing shortwave broadcast transmitters worldwide, arranged by country. Each listing indicates the name of the station, transmitter site, geographical coordinates and call-sign. It also shows the number of transmitters at the site, their power, manufacturer, type number and year of installation and year out of service.

To celebrate the 5th edition, the TDP is printed in full colour and includes several full colours advertisements from companies in the shortwave business. As usual, the latest shortwave transmitters that have been installed are included and the hard to obtain details about transmitters in Central and South America have been expanded.

This informative publication also contains a list of shortwave transmitter manufacturers and their headquarters, plus statistical breakdowns of the number of shortwave transmitters in use around the world, grouped by power level, country and manufacturer.

This year's articles include "HF Transmission: an evolutionary market?" by Jeff Cohen

from World Radio Network, "Antennas for the Shortwave Broadcaster" by Richard R. Greene from TCI, Technology for Communications International and "History of Energy-Onix" by Bernard Wise.

TDP is read year after year by radio stations, transmitter manufacturers, radio consultants and engineers, as well as by the dedicated radio hobbyist.

To order a copy of the TDP SW-98, send 5 GB£, 10 IRC's, 10 US\$, 15 DEM, 15 AUS\$, 15 CAN\$, 300 BEF or 1250 YEN¥ to TDP c/o Ludo Maes, P.O. Box 1, B-2310 Rijkevorsel, Belgium or to one of our distributors. More info is available on our website at <http://www.ping.be/tdp>.

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Well just to make sure you don't think I'm too lazy, let me tell you about a fun book.

The Best of Beasley

By Robert Beasley K6BJH

112 pages

\$8.00 + \$2.00 S&H

Worldradio Books

2120 28th St.

Sacramento, CA 95818

Bob Beasley has been making radio hobbyists laugh for many years. His ham radio oriented cartoons have appeared in all the best radio magazines. More than one or two of his toons have been known to hit close to home to anyone who has spent any time playing with radio. Now, instead of needing to wait each month to catch a cartoon or two in a magazine, Beasley's best are gathered together in a single volume. All the cartoons brought a smile to my face. More than a few had me resisting the urge to write in certain people's call signs in the margins.

Bob Beasley's artwork and humor are top drawer and this book would make a great gift for any ham friend. This book also represents one of several works published by Worldradio books that I will be reviewing in coming issues.



**MORE THAN A FEW OF
BEASLEY'S CARTOONS
HAD ME
RESISTING THE URGE
TO WRITE IN
CERTAIN PEOPLE'S
CALLSIGNS
IN THE MARGINS.**



Welcome to the following new NASWA members

Ron Berwager, Seven Valleys, PA
Richard L. Box, Lawton, OK
John Butler, Berwyn, PA
R. H. Clapper, Au Sable Forks, NY
William B. Conner, Cumming, IA
Chet C. Copeland, Washington, DC
Paul A. Dagnell, Belleville, PA
Lou Janicek, Ramsey, NJ

Les Locklear, Gulfport, MS
Eddie Muro, Cedarhurst, NY
Jim Roan, Lindenhurst, NY
Randy Ruger, North Hollywood, CA
Joe Safranek, Manhattan Beach, CA
Ken Sidell, Chicago, IL
Jeff Telling, Bloomington, IL

Equipment Reviews

Alan Johnson
2490 Sharon Way
Reno, NV 89509
CompuServe: 76665,1756
Internet: 76665.1756@compuserve.com

The AOR AR5000 Wideband Receiver

Sometimes while reviewing this receiver I had to just sit back and marvel at how far electronics technology has come since I began in this hobby. When I was a neophyte, the vacuum tube was still king, but its demise was imminent. Receivers of the time were large, heavy and doubled as space heaters. Their frequency displays were imprecise and inaccurate, necessitating the drafting of graphical tuning charts. Now, in a case not much larger than a desk or "collegiate" dictionary is a receiver that covers the frequency range of 10 kHz to 2600 MHz (less cellular), displays frequencies down to one hertz and can store 1000 frequencies in memory.

This is the AR5000, the flagship of AOR's line of "DC to Daylight" wideband receivers. It is multi-mode and has an amazing degree of flexibility. It is a triple conversion design and uses a varactor-tuned tracking preselector (up to 1 Ghz) for maximum sensitivity and dynamic range. It can be used in "Auto" mode, where the appropriate mode, IF bandwidth and tuning step are selected for a given frequency, based on the internally programmed bandplan. On the other hand, all parameters can be set by the user for special situations. There are two separate antenna inputs (expandable to four) and the receiver can be programmed to select either based on what frequency is tuned.

SW Receiver or Scanner?

That's a good question for one to ask. In the past, it was difficult to engineer a receiver that could properly receive signals in the HF, VHF, UHF and higher frequency ranges. Not only are signal levels different, there is also

the need to be able to receive different modes of varying bandwidths. In the past, most of the wideband receivers have performed best at the VHF/UHF end of the spectrum, with shortwave capability being pedestrian at best. These wideband receivers also lacked some of the tools that serious DX'ers find desirable, such as passband tuning and notch filters.

The AR5000 continues in this vein, at least in regards to controls and functions. It is best at scanning memory channels or searching over a range of frequencies, rather than manual bandscanning. The receiver has 1000 memory channels which are organized into ten banks of 100 channels each. Each channel can be labeled with an alphanumeric tag, if desired. Channel scanning occurs at a rate of 25 channels per second, unless the "Cyberscan" feature is enabled which boosts the rate to 45 channels per second by blanking the display of frequency or text information. As is usual with scanners, selected memory channels can be "locked out" so that they are skipped during a scan and selected memory banks can be linked so a scan covers more than 100 channels at a time.

Memory channels are great when active frequencies are known—the radio's search features provide a way of finding new active frequencies. In search mode, the upper and lower frequency limits of the range of interest are programmed into the receiver and the receiver will step through this range in predetermined frequency steps (defined by the user or by the radio in "Automode"). The search can be set to stop on frequencies which have signals above a set strength or

which have modulation (as opposed to a open carrier). Once an active frequency is found in search mode, it can be stored in a memory channel for inclusion in future scans. Unfortunately, the manual states that the search mode is best on the VHF/UHF bands, and less effective on the shortwave bands due to high background noise. For shortwave, the instructions recommend using the manual tuning knob.

What About Shortwave?

I must admit that I am biased against wideband receivers such as the AR5000. I have felt in the past that receivers designed as "universal" radios had to make some compromises. Also, I have little interest in VHF/UHF (despite having an honorary "Scanner Scum" T-shirt from the last SWL Winterfest!). My Radio Shack scanner has the NOAA weather channel and the local ham repeaters programmed into it—that's all I've been able to force myself to input into the memory channels. So, maybe I'm not the best one to review the AR5000...

However, I was pleasantly surprised with the basic performance of the AR5000 on the HF bands. Sensitivity was very good—there was nothing I could hear on my usual receivers that was not present on the AR5000. The front end was free of overload during my testing. The front-end preselector is normally tuned automatically by the radio's microprocessor, but the preselector can be manually tuned if desired. The audio quality was good, but is best with an external speaker rather than the small speaker mounted in the radio's base. The AR5000 has built-in audio high and low-pass filters whose cutoff frequencies can be set by the user.

Selectivity was not as good on the AR5000 as on dedicated HF receivers. There are two IF filters appropriate for HF signals. They are designated as 6 and 3 kHz on the display, but the manual gives their -6 dB widths as 9 and 2.4 kHz, respectively. The wide filter has a 20 kHz bandwidth at -50 dB and the narrower filter is rated at 4.5 kHz at -60 dB. The wide

filter gives great audio response on signals with little interference. The narrow filter is good, but on AM signals, the radio needs to be detuned slightly for good audio. The manual states that there are optional 5.5 and 2.5 filters (with 2:1 shape factors), but I have not seen these listed in US distributors catalogs.

I was bothered by the radio's tuning knob—it measures only 1¼ inches in diameter, which made slowly tuning across a band somewhat difficult. It has a tuning dimple for rapid frequency excursions, but the knob is too small to spin. There is an accessory tuning knob whose tuning step can be set independently of the main knob for rapidly shifting frequency, however. The AR5000 lacks passband tuning, notch filtering and synchronous detection, but does have a four step AGC control.

Flexibility = Complexity

Every parameter of the AR5000's operation (tuning step, pause time, etc.) can be set by the user. Programming these features is carried out by the 21 dual-function pushbuttons on the front panel as well by submenus which are selected by the auxiliary tuning knob. The owner's manual is 77 pages in length and detailed study of it is necessary to fully utilize the receiver's capabilities.

All in all, I'd personally prefer a dedicated HF-only receiver with all the interference fighting bells and whistles. For those who want to monitor the entire spectrum of radio communication, the AR5000 is compact, performs well and is reasonably priced for the capabilities it affords. The list price is around \$2199, but contact your favorite dealer for the actual price. There is now a AR5000+3 model (list price \$300 more) that adds a noise blanker, AM synchronous detection and 1000 additional memories. Probably the best source for more information is AOR (UK)'s website: <http://www.demon.co.uk/aor>. Thanks to Universal Radio for providing the review radio. 

Technical Topics

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Better DXing Through Chemistry

The number of short-wave listeners has declined over the past 5 years. The decline is due mainly to two causes: The rise of the Internet; and the absence of any really bloody wars to follow on short-wave radio. This fall-off in SWL's has really put the squeeze on NASWA's finances. To save money NASWA management contemplated shutting down the world famous research facility, The NASWA Research Lab (NRL).

Only two weeks before the ax was to fall, NASWA scientists announced another astounding development. It proved again the laboratory's worth to the short-wave listening hobby. NASWA management has decided to postpone shut-down of the lab for at least another year as a consequence.

"What have they done?", you ask. They have invented a new way to enhance your ability to pull those weak stations out of the noise. This month I'll report on this new discovery and its evolution.

The NRL scientists studied the reasons for the drop in membership. The NRL concluded that the absence of interesting, relevant, program content was driving away program listeners.

The little programming worth hearing is often more readily available and better-sounding via the Internet. Listeners quickly learned to point and click their way around the world without regard to jammers, time of day, or sunspots. The NRL scientists presented the findings of their preliminary study to NASWA management. NASWA decided to keep listeners interested (and dues-paying members

of NASWA) by converting them from program listeners to DXers. NRL then set out to develop a carefully planned behavior modification program.

As a first step to developing such a program, the NRL conducted a study of what makes a good DXer. What drives the good DXer to dig deeper into the noise to pull out that elusive ID? Are there some common personality traits that define the really good DXers? What keeps DXers sitting for hours listening to noisy, jammer-ridden signals in an obscure language? Find answers to these questions. The plan was to warp the personalities of program listeners into the personalities of world-class DXers.

To begin their study, NRL engineers visited several short-wave DXpeditions. From the back woods of Gifford Pinchot State Park in PA, the sandy shores of Cape Hatteras, and the rocky coves of coastal Newfoundland, they observed North America's best DXers in action.

Surprisingly, they did not find any particular personality trait to be common to all DXers. Some were competitive; others were laid back. Some were boorish and obnoxious; others were calm and considerate. Some were methodical, having planned every listening moment. Others would randomly tune the bands until they found a signal nobody else had reported before.

One thing did stand out as being common to all DXpeditions. Most of the participants got very little sleep and consumed massive amounts of junk-food, beer, and luncheon

meat. Could this be the secret to better DXing? The quest now moved into the laboratory.

Ten NASWA DXers volunteered to move to the NRL laboratory. Six months of intensive experimentation followed. NRL will not reveal the identities of the volunteers to protect their privacy.

NRL scientists took precautions to ensure the test results would be unbiased. NRL supplied all participants identical R-390A receivers. NASWA member Chuck Rippel carefully restored and certified the receivers as having identical sensitivity. A multicoupler fed all receivers from a common antenna.

Five of the volunteers were limited to 3 hours sleep daily. Volunteers ate a diet rich in high-fat snack foods, beer, bacon, eggs, hot dogs, pastrami, liverwurst, and various exotic sausages. The five volunteers in the control group got at least 9 hours sleep daily. The control group ate only steamed or raw vegetables, skimmed milk, poached fish, sourdough bread and water.

Half way through the experiment, the control group switched receivers with the others. The switch made sure that receiver differences did not bias the results.

The volunteer DXers in both groups listened as much as they wanted. They set their own sleep, listening, and eating schedules.

The results of these experiments were astonishing. Consumers of the high-fat diet, who drank mass quantities of beer, and got three hours sleep demonstrated a 6 dB gain in ability.

NRL scientists measured physiological parameters of the volunteers in both groups. As expected, blood pressure, cholesterol levels, and blood thickness were found much lower in the control group. The group with enhanced DXing ability not only had elevated levels of these parameters but also seemed to have periodic hallucinations. These were probably aggravated by the lack of sleep and the poorer circulation resulting from the build-up of plaque in the arteries feeding the brain.

NRL scientists concluded the fat-gobbling DXers were actually imagining many of their best catches.

So, if you ever wondered why these DXpeditions turn in such fantastic loggings, you now should understand. It is not the 1000 foot beverage antennas, well aligned receivers, nor superior low-noise locations. **The good DX loggings are largely the result of the enhanced imagination of the participants caused by the consumption of high-fat foods, beer, and little sleep.** Restricted blood flow to the brain was proven to add at least 6 dB to the ability to hear (or imagine to hear) that weak ID or interval signal buried in the noise.

OK, so how can you take advantage of these new findings? NASWA, as usual, has come to the rescue with a new product available only from the NASWA Company Store. The *NASWA High Fat Foods For Better DX Cookbook* is now available. Kris Field runs the store. You can order the cookbook from the address on the back cover of *The NASWA Journal*.

Disclaimer: NASWA has not obtained US Food and Drug Administration nor Canadian Government approval for the diet described in this article. Although the foods included are readily available, members must use some degree of prudence. The long term consequences of high-fat diets, excessive beer drinking, and prolonged sleep deprivation were not measured by the NRL scientists. NASWA has no responsibility for the collateral consequences of the abuse of these imagination-enhancing techniques.

Over the next year NRL scientists will conduct additional experiments to determine the effect of certain hallucinogenic drugs on the ability to ferret out even weaker signals. Ultimate gains of 12 dB may be possible. Volunteers are requested to use the application form in the back of the cookbook. NRL will supply the drugs free of charge. Drug dealers are invited to submit quotes directly to the NRL procurement office. This experiment will conclude on April 1, 1999. Until next time, stay tuned. 

LOUDENBOOMER REPORT

by Charlie Loudenboomer, Jr.



[The following extremely unsolicited manuscript was recently found inside a bottle washed up on the shore of a well-known ocean.]

NASWA members of the world, be honest with me. What question has haunted your minds over the past 20 years or so? "What is the meaning of life?" "How many stars are there in the universe?" "Why can't I get a date?"

I think not. I think that above all, you've never stopped asking yourselves, "What the heck ever became of Charlie Loudenboomer?" Admit it: In your minds, his mysterious disappearance ranks right up there with the infamous vanishing acts of Amelia Earhart and Jimmy Hoffa.

I've kept my lips sealed about my father all these years, respecting his wish to remain out of the limelight. But no longer can I ignore the rumors, the speculations, and the innuendoes, mainly because they're not half as juicy as the truth. Therefore, I am finally breaking my vow of silence in order to bring you up to date on his activities over the past two eventful decades. (At least those activities that are fit to print in a family publication.)

As most of you know, Dad's involuntary departure from NASWA followed in the wake of what some people termed his "scandalous" behavior at one of the Winter SWL Festivals. Yes, it's true that he had imbibed a little too much schnapps and mooned a waitress at the Kulpsville Kitchen. But who among us has not been guilty of mildly inappropriate behavior at one time or another?

For what seemed an eternity, Dad brooded over his inglorious dismissal from the

hallowed halls of NASWA. After so many years of "Unity and Friendship," he felt fragmented and friendless. Layers of dust and old issues of *Penthouse* collected on his listening post. He began to wear his boxer shorts backwards. Dogs barked at him.

I begged Dad to snap out of his doldrums and seek the gainful employment that was so essential to supporting his increasingly extravagant, devil-may-care lifestyle. It was a hot topic of neighborhood gossip, for example, that he had begun buying Vanish to clean the toilet bowl instead of using a less expensive generic brand.

But finally, to my vast relief, he mustered up the courage to visit WWV and apply for a position as program director. At his interview with the station's top management, Dad eagerly shared some of the creative, highly original ideas he had come up with during his long period of enforced inactivity.

Dad suggested that WWV adopt a slogan, something catchy and memorable like "The Best Darn Shortwave Station in Colorado!" He also tried to convince station management that the time ticks every second were so boring that people tuned out in droves, sometimes after listening for only a minute or so.

His solution was to replace the monotonous pips with familiar tunes. "After all," he said, "who wants to listen to 'tick-tick-tick-tick-tick-tick' when they could be tapping their toes to the 'Theme from Peyton Place'?" He

also advocated playing the “Song of the Coconut Isles” just before the hour every now and then, adding that if it was good enough for all those RRI stations, it was certainly good enough for WWV.

Well, it may be true that Dad’s ideas were unconventional and ahead of their time, but that was no reason for the WWV big-shots to heave him out the door and into a snowbank. Dad ultimately got his revenge, though, boycotting WWV in favor of CHU from that day onward. As he always liked to say, “At least CHU announces in two languages; if you don’t like the English, you can always listen to the Spanish.”

For the next decade or so, Dad survived by his wits, taking any odd job he could find, no matter how lowly or unworthy of his genius. Then, out of the blue, fortune smiled on him.

The NASWA powers-that-be had decided that the club’s monthly publication needed a new name, since “*FRENDX*” was meaningless to anyone who wasn’t familiar with its origin back in the mid-’60s. Even worse, nobody was really sure whether the correct plural of “*FRENDX*” was “*FRENDEXES*” or “*FRENDICES*.”

Taking pity on Dad’s plight, NASWA management retained him as a consultant, offering him an exorbitant fee to come up with a snappy new name for the publication. With a smile on his lips, a song in his heart, and a few mustard stains on his cummerbund, Dad set to work. How vividly I remember how he slaved day and night on the project, neglecting personal hygiene and sometimes going without sleep for weeks at a time. Suddenly, one evening, eureka! In a single master stroke of clever wordplay so typical of Dad, *FRENDX* became—that’s right, the *NASWA Journal*.

But Dad’s greatest triumph was still to come. Remember how all the “NASWA Notes” columns used to end with “Enjoy this month’s edition of *FRENDX*; it’s another good one”? Well, Dad suggested that this parting phrase had become rather repetitious and stale. Why not change it to “Enjoy this month’s edition of the *NASWA Journal*; it’s another good one”?

To Dad’s delight, his idea was enthusiastically received and quickly implemented. And so, to this very day, those sparkling words appear at the end of every “NASWA Notes,” sometimes enlivened by a subtle twist such as “this holiday edition” instead of “this month’s edition.”

Unfortunately, Dad’s enormous consulting fees soon exhausted the NASWA treasury and the club’s patience, leaving him once again out on the street. Getting on in years and with very few attractive alternatives, he bought a one-way plane ticket to Tibet and found a job selling fortune cookies door-to-door to benefit the Xizang PBS antenna fund.

Unfortunately, in a burst of misguided optimism, Dad ordered more boxes of cookies than he or perhaps even a dozen armies could ever sell. He responded to his predicament in classic Loudenboomer fashion: by sinking into a prolonged stupor. His previously sharp, probing intellect and keen judgment gradually deteriorated to the point that he was seen buying a scanner.

But I’m happy to report that—under the circumstances, at least—my story has a happy ending. Today Charlie Loudenboomer lives peacefully, managing a modest-sized yak farm somewhere in the greater Lhasa metropolitan area. Although he isn’t listed in the telephone directory, you can find him if you really try. Just look for a trail of cookie crumbs.

Listener's Notebook

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AFGHANISTAN *Radio Afghanistan* (pro-Rabbani), which identifies itself as Radio Afghanistan, was first heard by BBC Monitoring on 29th October 1996. It appears to be operated by supporters of Borhanoddin Rabbani, the former president of Afghanistan, who was ousted from Kabul by Taleban forces in late September 1996. According to pro-Rabbani officials in Tashkent, the radio broadcasts from a facility in Taloqan, in the centre of Takhar Province in northern Afghanistan. It operates on the same frequency as the Tajik opposition radio Voice of Free Tajikistan, and may well be sharing facilities. Start time of transmissions can vary by up to ten minutes and transmissions can be erratic.

0230-0330 Dari/Pashto 7084v
1430-1530 Dari/Pashto 7084v

(BBCM)

ANGOLA 6225 *Vorgan* is still on the air and I get the impression that the reception is becoming much better. Also heard March 4 at 0452 on 9770: fair reception with interference. (4-7-Mar/Vaghjee-MAU/DSWCI DX Window/Veldhuis-NL)

4820 *EP Da Huila*, 0407, Elvis music, deep-voiced M ancr, more U.S. pops; ID at 0433, foll by sports. (2-Mar/Oldenburg/DSWCI DX Window/Veldhuis-NL)

11954.7v *R. Nacional* 0025 Reactivated outlet heard with man and woman in Portuguese plus nondescript pop vocals; severe QRM from BBC on 11955 but definitely // weak 4950. Still at it when rechecked 0110, but had drifted up to 11954.8. (22-Mar/Hill-MA)

BARBADOS Carl Moore, chairman of the Barbados Broadcasting Authority, is calling for a SW service to be established, in order to promote the island's development and for the Bajan diaspora. Two four-hour services in the European and North American evenings would suffice; it might cost \$1 million to set up but would be well worth it. The Government Information Service should run it; in the last four years there was one application for a SW service, but it was withdrawn (12-Feb/Barry Alleyne-Daily Nation/Ebeling/World of Radio/Hauser/DSWCI DX Window/Veldhuis-NL)

BELARUS 11670 *Belarussian Radio* home service is heard 1600-2300 via 5 kw transmitter and non-directional antenna, //6115, 7145 (20-Feb/DX Mix/Bulgarian Radio/DSWCI DX Window/Veldhuis-NL) Already on at 1555, ID "Vas vytaet radiostantsya Krynytsa." Poor to fair signal. (Pashkevich-RUS/DSWCI DX Window/Veldhuis-NL)

BELGIUM *RVI* 298, Mar-29 to Oct-24:

0430-0500	Flemish	11750B Mo-Fr
0500-0555	Flemish	11810W 13745W Mo-Fr
0600-0725	Flemish	5985W 9925W Mo-Fr
0730-0755	English	7290W 9940W Mo-Fr
0800-0825	German	5985W 7290W Su
0800-0825	German	5985W 7290W Su
0830-0855	French	15545W 17690W Sa
0830-0855	French	15545W 17690W Su
0900-1000	Flemish	17690W 21510W Su
1000-1025	Flemish	15535M Mo-Fr
1030-1055	English	9925W 15535W Mo-Fr
1100-1155	Flemish	9925W 11995W Mo-Fr
1200-1225	Flemish	9865PK 15250B 15535T 15590W Mo-Fr 15545W Mo-Fr
1230-1255	English	9925W 11895W 17680W Su
1300-1600	N*	5910W 9925W 11965J Mo-Fr
1600-1625	Flemish	5910W 7290W Mo-Fr
1630-1655	English	7410J 11810J 15270W
1700-1730	Flemish	17655W Mo-Fr
1730-1755	English	11810J 17655W Mo-Fr
1800-1855	Flemish	5840J 13685W 15270W Mo-Fr
1800-1855	Flemish	5840J 15270W Sa
1800-2015	N*	13685W Sa
1900-1930	French	3995J
1900-1930	French	3995J Sa
1900-1955	Flemish	5910W 9925W Mo-Fr
1900-2015	Flemish	5910W 9925W Sa
1930-2000	German	3995J
1930-2000	German	3995J Sa
2030-2055	French	9925W Fr
2230-2255	Flemish	13655B Mo-Fr

B=Bonaire JUL=Jülich M=Antananarivo
PK=Petrovavlovsk-Kamtsjatka T=Tashkent W=Wavre

N*= Sports progr (relay Radio 1)

(13-Mar/Schotmans-BEL/BCDX/RVI/van Oudheusden/EDXP/Padula-AUS)

BOLIVIA 3234.87 *Radio Luz y Sonido*, Huanuco; 1011-1120 poor, religious px in Quechua. (28-Feb/TIN-JPN/Relampago DX)

4409.0 *Radio Eco Reyes*, 2315, With local promo for their region. Used to be on 4409.3, now right on 4409 kHz. (10-Mar/Hermod/DSWCI DX Window/Veldhuis-NL)

4450.0 *Radio Frontera*, 0050-0100, with commercial for Banco Central de Bolivia. (13-Mar/Hermod/DSWCI DX Window/Veldhuis-NL)

4471.8 *Radio Movima*, 1040-1050, Good signal. (11-Mar/Wilkner/DSWCI DX Window/Veldhuis-NL)

4552.32 *Radio Difusoras Tropico*, 1020-1035, Noted a man in steady Spanish comments during this period. Signal, unfortunately is threshold this late and can't copy any details. (10-Mar/Bolland/DSWCI DX Window/Veldhuis-NL)

4599.25 *Em. Villamontes*, 1030-1045, Program in Spanish, talking about care in the traffic, ads for "Estudios Juridicos." and "...6 con 38 minutos en todo el pais," Ads for "taller Climatex," libreria y fotocopia "Center"...taller electronico "Sonic2 la unica en Villa montes. (13-Mar/Iversen/DSWCI DX Window/Veldhuis-NL)

4927.1 *R. San Miguel*, Riveralta, Beni; 0110-0130 mx tropical en castellano ID "Radio San ID "Radio San Miguel desde Riveralta, Beni, Bolivia..." Integracin Docente. (27-Feb/Arrunategui-PRU/Chasqui DX)

5952.4 *Radio Pio 12*, 0100-0130, With reports in Spanish from ongoing miner conference, then switching to Aymara, with info from Instituto Nacional Agraria (13-Mar/Hermod/DSWCI DX Window/Veldhuis-NL)

5964.85 *Radio Nacional Huanuni*, 1020-1030, Seemingly the one with Bolivian flutes, poor reception of this station normal in South Florida. (11-Mar/Wilkner/DSWCI DX Window/Veldhuis-NL)

6105.46 *Radio Panamericana*, Santa Cruz, 0010-0140, Sport live and ID's in Spanish. Always with strong splatters from 6105 but comprehensible. Heard also March 16. (13-Mar/Bruni/DSWCI DX Window/Veldhuis-NL)

6155.0 *Radio Fides*, La Paz, 0209-0236, Spanish, Man announcer, ID (with musical jingle), Musical Program with call in by local listeners, time checks "dies de la noche con veinticinco minutos en todo el pais." (22-Mar/Eramo/DSWCI DX Window/Veldhuis-NL) 1150-1215, Spanish program, weather, news, talking about strikes. (19-Mar/Iversen/DSWCI DX Window/Veldhuis-NL)

BRAZIL RNB's English at 1200-1320 on 15445 not only suffers from worn-out tapes but a worn-out transmitter. March 3 at 1227 15445 had distorted music, warble on carrier, and even more distorted spur on 15500.0, matched by 15390.0 which was

under VOA in Spanish but in the clear after 1230 when an RNB announcement was definitely in parallel on all three (Hauser/DSWCI DX Window/Veldhuis-NL)

4985 *Radio Brasil Central*, Goiania, 2305-2400, Many IDs as "Radio Brasil Central de Goiania" and carrying "A Voz da Esperanza" Religious program. Very Good. (15-Mar/Bruni/DSWCI DX Window/Veldhuis-NL)

5035.08 *Radio Aparecida*, 0925-0940, Noted Bras Pops music, ID, and Portuguese comments from a man. Signal was poor. (12-Mar/Bolland/DSWCI DX Window/Veldhuis-NL)

5055.0 *Radio Difusora*, Caceres, 2310, ID simply as "R. Difusora" during a nonstop-music program. (16-Mar/Bruni/DSWCI DX Window/Veldhuis-NL)

6040.41 *Radio Clube Paranaense*, 0920-0930, Noted plenty of canned advertisements and promos during period especially after 0930. Canned ID at 0935. Signal was good during this period. (10-Mar/Bolland/DSWCI DX Window/Veldhuis-NL)

9665.0 *Radio Marumby*, Florianopolis, 2335-2345, Portuguese, religious program, sermon about the biblical passage Luke chapter 8. (21-Mar/Schnitzer/DSWCI DX Window/Veldhuis-NL)

11780.0 *Radio Nacional Da Amazona*, 0122, Portuguese news, talking about visit of Italian premier Prodi in that country. QSB but strong signal. (5-Mar/Gravina/DSWCI DX Window/Veldhuis-NL)

11925.0 *Radio Bandeirantes*, Sao Paulo, 0125, Portuguese interview and the usual funny Bras sound. (5-Mar/Gravina/DSWCI DX Window/Veldhuis-NL)

15135.0 *Radio Record*, Sao Paulo, 2240-2255, Portuguese, sports information about soccer, // 11965, 9505. (21-Mar/Schnitzer/DSWCI DX Window/Veldhuis-NL)

15235.0 *Radio Gazeta*, Sao Paulo, 2255-2315, Portuguese, religious program from a Bible-society in Manaus (21-Mar/Schnitzer/DSWCI DX Window/Veldhuis-NL)

15402.0 *Radio Nacional*, 1400-1440, Transmitter failure causing signal on this frequency, originating from 15445. Bad modulation on both and giving much splatter on great part of the 19m band. Program in Spanish consisting of Brazilian music. Also problem with program material which changed speed a few times. (13-Mar/Iversen/DSWCI DX Window/Veldhuis-NL)

15414.9 *Radio Clube* (p), Ribeirao Preto, 2350-0005, Portuguese, Brazilian popmusic. 12422 (21-Mar/Schnitzer/DSWCI DX Window/Veldhuis-NL)

BULGARIA *Radio Bulgaria*, from 29 March:
0000-0100 Bulgarian 9415 9485 11660 11720
0100-0200 French 9485 11720
0100-0200 Spanish 9415 9700 11660

0200-0300	Russian	7380 9700
0200-0300	English	9485 11720
0300-0400	Bulgarian	7380 9700
0400-0430	Greek	6140 Mo-Fr
0400-0500	Greek	6140 Sa/Su
0415-0500	Turkish	5900 7365 Mo-Fr
0430-0500	Albanian	6140 Mo-Fr
0500-0600	Turkish	5900 7365 Sa/Su
0500-0600	Serbian	6140 Mo-Fr
0515-0600	German	9485 11825
0600-0700	French	9485 11825
0600-0700	Albanian	7375 Sa/Su
0700-0800	Serbian	7375 Sa/Su
1000-1100	German	15175 17585
1100-1200	English	15175 17585
1200-1500	Bulgarian	5865 13770
1400-1500	Russian	9775 11700 13715
1500-1545	Serbian	5865
1500-1600	Bulgarian	9775 11700 13740 17650
1545-1630	Albanian	5865
1600-1700	Spanish	13790 15315
1600-1800	Bulgarian	9775 11700
1615-1700	German	9700 11720
1630-1715	Greek	5865
1700-1800	French	9700 11720
1715-1800	Turkish	5865 7465
1800-1900	Russian	9775 11700
1800-1900	German	9700 11720
1800-2100	Bulgarian	5865 7465 7495
1900-2000	English	9700 11720
2000-2100	French	9700 11720
2100-2200	English	9700 11720
2115-2215	Spanish	11660 13710
2300-2400	English	9485 11720
2300-2400	Spanish	9415 11660

(direct)

BURKINA FASO Ougadougou on 4813 with substantially improved signals in period 2030-2100, with French political review (4-Mar/Padula/EDXP/Padula-AUS)

CAMBODIA 11940 Roland Schulze confirms reports that Phnom Penh is currently off SW outlets. Noted BBC Meyerton relay co-channel instead, 1258-1315. (Schulze-PHL/DSWCI DX Window/Veldhuis-NL) 11940.34 *National Voice of Cambodia*, 0010-0020, Moderate carrier with few bits of threshold audio. Het from a another carrier on 11940.0. No basis for ID but almost surely this, reactivated, although maybe irregular as I've not seen any other recent reports. (9-Mar/Clark-ONT/DSWCI DX Window/Veldhuis-NL) 11940.3, *National Voice of Cambodia*, 1204 on 18th with stronger signal than recent months with English talk. On 19th tuned-in to S/on routine 1200 which included new "theme" music (traditional Cambodian-style), female ID and male with news. Fair+ (18-19-Mar/Famularo-JPN)

CANADA A Canadian Press story published today (March 2) states: "*Radio Canada International*,

which has been teetering on the verge of collapse for years, has been given money to rebuild its aging infrastructure. The broadcaster will get \$15-million over three years, Heritage Minister Sheila Copps and Foreign Affairs Minister Lloyd Axworthy said Thursday. The money will go to improve or replace transmission towers at Sackville, New Brunswick, and studio facilities at RCI's Montreal headquarters." (Sellers-ONT/ODXA)

CANADA (via RUSSIA) *Radio Asia, Canada* is a new Tamil stn beaming to Asia, although from the progs it is to Sri Lanka and no where else! 1400-1500 12005 from CIS site. Registered are Tashkent-UZB 1220-1330 100 kW 130 degr, and Samara-RUS 1400-1600 100 130. Immediately after 1459 goes into RMWS IS and English VoR Moscow til 1600. Based in Canada and fed via satellite, appears live from time checks given etc. Gives postal addresses in Sri Lanka. Station ID as "Radio Asia Canada Vanoli." This is the second such stn after IBC Tamil Vanoli now on Dusheti-GEO 7475 kHz 0000-0100. (13-Mar/Goonetilleke-SRI/UADX/BCDX/EDXP/Padula-AUS)

CHAD 6165 *RDF Nationale Tchadienne*, NDjame-na, 0425:30-0428, Distinctive Balafon IS at good level thru Radio Nederland OC and another signal that was probably Zambia. Covered by Radio Nederland IS at 0428. It seems this is the regular frequency replacement for 4904.5 for local morning/evening broadcasts. (28-Feb/Clark-ONT/DSWCI DX Window/Veldhuis-NL)

CHILE 21555v to 21550, *Radio Vision Cristina*. Test transmissions from Santiago, heard with English and Spanish announcements between 1500-1935 with very good signal. The station is requesting reception reports: Box 490, Santiago 3, Chile, and fax and Email in Chile. (4-Mar/Lopez via Barrera-ARG/DSWCI DX Window/Veldhuis-NL) Tom Sundstrom received this reply to his report of March 5th.: Thank you for your reception report. I confirm that the details you sent are correct and that you did indeed hear our station. Voz Cristiana is a sister station to *Radio Christian Voice* (Zambia), both are projects funded by the UK charity Christian Vision. Christian Vision has a web site at <http://www1f.btwebworld.com/christian-vision/>. In 1996 Christian Vision acquired the site and facilities of the former Radio Nacional de Chile which went off the air many years before. A license application for shortwave services to Latin America is in the final stages of being processed and when granted the station Voz Cristiana will launch officially. The services planned are to Mexico and Central America, to northern South America and Caribbean, to southern South America (all in Spanish) and to Brazil in Portuguese. The principal studios for the station will be located in Miami, linked to Santiago by satellite, and programming will be exclusively of a Christian nature but of interest to a wider audience.

The facilities at the station include:

- 8 Harris SW100 transmitters—3 TCI-527 log periodic antennas pointing at 340 deg, 0 deg, and 60 deg. These will be used for services to Mexico, northern South America and Brazil, respectively.
- 2x1 horizontal dipole pointing 0/180 deg, with 30 deg slew. This will be used for the service to southern South America.
- 4 TCI-611 4x4 curtain antennas pointing variously towards Europe, Africa, Asia.

The engineers of the station are currently preparing the transmitters for long-term operation at 70kW, and a review of the frequencies the station will use is in progress. It is true that we have been tentatively testing on 21550kHz (intended to Mexico), however since there are various legalities regarding the licence still to be completed I must emphasize that these tests have been TENTATIVE and it would be premature for me to release further details of our test plans and frequency schedule at this stage. Of course I will be thrilled to publicise these as much as possible as soon as I am able. I hope you understand.

With best wishes

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CHINA CNR has introduced a new Chinese channel on 5985 // 7210 kHz and is obviously from the new high powered Urumqui relay. Best 1600 onwards after Yangon S/off. (Goonetilleke-SRI/DSWCI DX Window/Veldhuis-NL)

9520 *Nei Menggu PBS*, new frequency, phone talks and music. 0440-0550*. *Nei Menggu* also using new 9750 for Mongolian until 0555*. (11-Mar/Miroshnikov/DSWCI DX Window/Veldhuis-NL)

3939.70 *Hubei PBS* (p), February 27, 1105-1120, in Chinese with music and some talk by M and W. (27-Feb/Keckes/DSWCI DX Window/Veldhuis-NL)

Yunnan People's Broadcasting Station identifies as "Yunnan Renmin Guangbo Diantai." Minority languages are relayed on shortwave:

0355-0545	Multilingual	6937v
1100-1500	Multilingual	6937v
2200-0045	Multilingual	6937v

(BBCM)

CLANDESTINE—AFRICA *Radio Kudirat Nigeria*, via Meyerton, South Africa UK address: Nalicon UK, PO Box 9663, London SE1 3LZ, UK Tel/Fax: +44-171-407-0776 E-mail: nalicon@postlin.demon.co.uk 1900-2000 EE/local langs 11540 6205

(BBCM)

Voice of Free Nigeria, programmed from the U.S. and transmitted via Jülich, Germany: Address: Free Nigeria Movement, P.O.Box 441395, Indianapolis, IN 46244, USA. Tel/fax: +1-317-216-4590 E-mail:pr@freenigeria.org

URL: <http://www.freenigeria.org>
1900-2000 EE/Multi 12015-alt 11645 Sa only
(BBCM)

7999.54 *VO Sudan* (Amharic?) excellent levels 0409 M datelines/headlines, lcl mx, lotsa talk, peaked @0430, weak but still audible past 0500. (23-Mar/Quaglieri-NY)

Voice of the People, Somalia, previously on 6870, now on 7035. 1610 Somalian songs, long talk in Arabic followed by songs and talk on Democratic Somalia...Somalia...? Somalia Revolutionary..., followed by the Military music and at 1655 Koran Recital. Time Pips at 1600, ID in English and the usual Military band march. Good signal until 1600, then reception became weak and latter disappeared. (date?/Vaghjee-MAU/DSWCI DX Window/Veldhuis-NL)

CLANDESTINE—MIDEAST *Voice of Southern Azerbaijan* (Azeri: Bura Janubi Azerbaijan Sasi), which was first heard in July 1996, is operated by the National and Independent Front of Southern Azerbaijan.

0615-0715	Azeri	11935
1630-1730	Azeri	7095

(BBCM) We have recently taken bearings for *Voice of Southern Azerbaijan* which appear to confirm an Israeli transmitter site. (Kenny-BBCM/BCDX/DSWCI DX Window/Veldhuis-NL)

CONGO 9610 *Radio Congo* 1615-1700*, French/Vernacular with strong French accent news, simple ID at 1633 as "Radio Congo." Afropop music with final French announcement. (19-Feb/Timofeyev-RUS)

CROATIA 298 registrations for Zagreb, 100 kW:

5900	1600-1900
6025	0600-1200
6145	0400-0600
7125	1200-1800
7185	0800-1200
9830	0500-1600

(Padula/HFCC/EDXP/Padula-AUS)

CUBA I've complained before about noise bursts marring reception of *RKI* 9650 at 1137 via Canada. I'm now 99% certain these are generated by the lousy *RHC* transmitter on 9550, on March 6 at 1140 check, the bursts were again extremely regular, now 12 seconds on, 13 seconds off, appearing at just about any empty spot plus or minus 100 kHz or more from 9550, such as 9555, 9545, 9535, 9515, 9635, 9650, 9655, 9660, 9490, 9455, 9460. The bursts come on abruptly, decrease slightly in inten-

sity during the cycle, and slightly change pitch in the last couple of seconds before cutting off. Continued to be audible during the following hour, but after 1255 when 9550 had signed off, they were no longer heard. Meanwhile, at 1218 I checked another RHC frequency, 6000, and found similar-sounding noise accompanying it around 5990, 6005, but this was continuous. Then March 7 during an extended local power failure, at 1125 the bursts were back, to the previous 9 seconds on/16 seconds off pattern. March 12 at 1150 check, the bursts were gone, and 9550 itself sounded rather sickly. I had E-mailed an early version of this item to Arnie Coro a few days ago, but as usual there was no reply and I am not drawing any conclusions. I'd fall off my chair if this were ever a topic on DXers Unlimited. RHC is a technical marvel, and any problems can be blamed on the embargo (Hauser/DSWCI DX Window/Veldhuis-NL)

Hey, I fell off my chair! On the March 14 DXers Unlimited, Arnie Coro did deal with the RHC noise-burst problem I reported previously. But instead of explaining in any detail what caused it, how it was repaired, and godforbid, apologizing to the countless listeners and stations this affected for weeks and weeks, he used his time to make a vicious personal attack on yours truly! I heard it, and anyone can read it on the RHC website. Those who read my DX reports 98-07 and 98-10 will see that I did not make a personal attack on Coro about this, but he responds with a personal attack on me.

Coro apparently took great offense at my sarcastic remarks about RHC transmitters, assuming that everyone would agree with him that I was way out of line. I repeat: "LOUSY." Any serious SW listener will be aware that RHC transmitters repeatedly suffer from modulation, spurious and harmonic problems. If the RHC engineers were as on the ball as Coro would like us to believe, the problems would be fixed permanently or nipped in the bud. But it took a yankee imperialist to uncover the source of the noise blasts on 31 meters each morning. Why don't Coro and the rest of the staff monitor their own station? If I could hear this, the same must have been audible to anyone turning on a SW radio in ground-wave range around Havana.

Yes, I am impatient with incompetence in the operation of SW stations, and frequently point it out. RHC is certainly not the only station with such problems. By attacking me personally, Coro is trying to shift attention away from the REAL problem, "non-essential radiation" from RHC, by blaming the messenger! He went on to criticize Hotmail, claiming he had not received my message directly to him about this, and even WEWN, as if I were somehow responsible for them. As a matter of fact, as many other than Coro will remember, it was I who exposed WEWN's super-splatter problems, something which they did not appreciate, either. Tough luck. Stations are using OUR airwaves, and I will make public prob-

lems wherever I find them. At least, briefly in the middle of his diatribe, Coro admitted RHC was the source:

"YES, Mister Hauser was right, we had a problem with the frequency generator used at our old Brown Boveri of 1961 vintage."

He calls me isolated—this from someone in one of the most isolated countries on earth! He calls me unprofessional for making public the problem rather than quietly telephoning him directly about it. Let me explain a few things. I am not isolated, but independent. I am not on any station's payroll, and not obligated to give any of them technical advice. I am not unprofessional, but non-professional. I am a listener, critic and SW journalist. I report to the public on what I hear. In order to do that, something has to be transmitted. In this case, severely interfering noise bursts, week after week. I may make a reasonable effort to inform the station of the problem, as I did in this case with the E-mail directly to Coro a few days earlier, but I am not going to sweep it under the carpet, nor am I going to refrain from expressing my opinions, even if they are sarcastic. Everyone has the right to do this. In this country, we happen to have freedom of speech.

May I remind you that Cuba is one of the few countries which deliberately jams foreign SW broadcasts, mostly from the US, causing a lot of collateral damage much like the RHC noise bursts did. This is one topic Coro doesn't dare mention on his show.

He makes a big deal of not receiving my direct E-mail, and not learning of the problem (doesn't he have a SW radio?) until forwarded by Wolfgang Bueschel. As my previous report said, it seemed the problem had already stopped before this, but perhaps it was just intermittent. He says on Friday, March 13, he and the chief engineer spent the whole morning looking for the problem, finally found and fixed it by removing a "decadic [?] frequency generator and connecting a spare unit." And indeed since then, we once again have a clear 31 meters in the morning, thanks to me, at least for the time being. Unfortunately, Coro thinks I am "super-egotistic, "only I know about everything"" Of course not, but I obviously knew about this before he did, and he just can't take it.

I think this episode gives us a rare glimpse of the real Arnie Coro, behind the good-fellow your-friend-in-Havana facade he tries so hard to portray. I'm not surprised. I've previously received word from an American SWL, which I have not made public, that at considerable personal expense and trouble, he sent Coro something he needed via a third country. And all he got in reply was a slap in the face. In reality, Coro shows he is a vindictive ideologue who can't take criticism, on the payroll of one of the most repressive dictators on earth. Tsk, tsk (Glenn Hauser, "selfish, autocratic, chief engineer for the world")

DENMARK *Radio Denmark* from 29 March, all in Danish:

0030-0055	11640 11735 13805
0130-0155	11640 11990 13805
0230-0255	11645 11990
0330-0355	9975 11990
0430-0455	7485 11635 11990
0530-0555	7485 13800 15220
0630-0655	7180 9590 11665 13800
0730-0755	7180 9590 13800 15640
0830-0855	15175 15640
0930-0955	15175 15675
1030-1055	11605 18950
1130-1155	11605 15625
1230-1255	15640 17785 15650 17535
1330-1355	9590 15640 15650 17535
1430-1455	15695
1530-1555	13800 15230 15705
1630-1655	9590 13800 17640 18950
1730-1755	7485 13830 15705 15220
1830-1855	7485 15735 15705 18950
1930-1955	7485 15220 15705
2030-2055	7485 15220
2130-2155	13830
2230-2255	13830 13800
2330-2355	11640 11735 13830 13805

(Koiie-R. Denmark/Costello-NJ)

DOMINICAN REPUBLIC 4788.66 *Onda Musical*, 2326 to past 0003. ID at 2326 and a news program. After 2330 talk and short segments of music in between change of speakers/topics. Off the air at 0009 re-check. Re-activated slightly new frequency. (16-Mar/Harms/DSWCI DX Window/Veldhuis-NL)

ECUADOR *HCJB* has discontinued use of 9365 kHz to Europe, following a complaint from the government of Colombia of interference in some of their point-to-point transmissions due to our use of this frequency. (Graham-HCJB/Mayer/Ludwig-FRG/DSWCI DX Window/Veldhuis-NL)

It may take *HCJB* three to four years to relocate 11 SW txs, 32 antennas and 48 towers at its Pifo transmitter site which is in direct line with a new international airport at a cost of US\$5m. In view of changing media opportunities some broadcasts may be transmitted by relay facilities in other countries, some targets may be dropped, in fact eventually *HCJB* may drop SW to all areas outside Latin America. *HCJB* will not rebuild the European antennas. The emphasis will be to move as little as possible and rent and relay as much as possible. (WDXC Contact/BCDX/DSWCI DX Window/Veldhuis-NL)

3280.0 *R. La Voz del Napo*, Tena; 105-1140 mx saludos y oraciones ID "Radio Difusora Catlica La Voz del Napo" px religioso. (27-Feb/Arrunategui-PRU/Chasqui DX)

4814.1 *Radio El Buen Pastor*, 2328, Weak, in Spanish. (14-Mar/Klemetz/DSWCI DX Window/Veldhuis-NL)

ESTONIA *Estonian Radio* continues to modernize its transmitter network. From 1st March, the use of the SW transmitter on 5925 kHz will be discontinued. Previously, Estonian Radio's external broadcasts could be heard on this frequency. External services will continue to use Tallinn 103.5 Mhz. (BBCM) [Hardly deserves to be called an "External Service" then, does it?—AQ]

ETHIOPIA 6210 *Radio Fana*, ID at 0400-0435. Also music and talk by male and female. Covered by VOIRI until 0426 and in the clear after that. (4-Mar/Harms/DSWCI DX Window/Veldhuis-NL)

7165.0 *Voice of Ethiopia*, 1455-1459*, AA music and final Arabic announcement, also on 7110 at *1459-. (3-Mar/Timofeyev-RUS)

9560 *Voice of Peace*, Addis Ababa, at 1135 with songs followed by talk and radio play at 1140, songs after that until 1159 when ID by woman in lang. and then EG: "You have been listening to the...prgm produced by Radio Voice of Peace from the External Svc of R. Ethiopia. We shall be on the air again tomorrow in the 25 and 31 mb. . . at 11 hours. . . Radio Voice of Peace.Thank you for listening." Went off at 1200; fair rcprn, and covered by SLBC on //11800. (1-Mar/Vaghjee-MAU)

FINLAND From March 29th, *YLE Radio Finland* will change its daily English SW half hour for North America to an evening slot, 0200 on 9780 and 11900 kHz. The morning (US time) broadcast in English continues to be heard at 1230 on 15400 and 11900 kHz—but on Sundays only. (YLE Radio Finland in rec.radio.shortwave/DSWCI DX Window/Veldhuis-NL)

Radio Finland, Foreign Language Services, Z-98:

0200-0230	English	9780 11900
0500-0515	Swedish	9560
0515-0530	French	9560
0515-0530	Russian	9655
0530-0600	German	9560
0630-0700	English	11945 17830
0630-0800	Swedish	9560
0830-0900	Russian	15225
0900-1000	Swedish	9560
1000-1030	German	9560
1300-2005	Swedish	9730
1330-1400	Russian	6180
1600-1630	Russian	6180
1945-2000	French	6135
2000-2030	English	6135
2030-2100	German	6135

(8-Mar/Volk-FRG/EDXP/Padula-AUS)

GEORGIA Following sked direct from *Radio Georgia*, claiming all frequencies 200 kW:

0500-0800	Georgian	6180 Tu/Th
0600-0630	Russian	11805
0630-0700	English	11805
0700-0730	German	11805

0800-0830	Georgian	11910
0830-0900	English	11910
0930-1000	English	11910
1000-1030	Georgian	11910
1600-1700	Georgian	5990 Sa/Su
1630-1700	English	6180
1730-1800	Georgian	6180
1730-1900	Georgian	5990 Sa/Su
1800-1830	German	6230
1830-1900	English	6230
1930-2000	English	6230
2000-2030	German	6230
2030-2100	Russian	6230

(Lippert/DSWCI DX Window/Veldhuis-NL) Unsure whether or not this already refers to the upcoming Z98 season. (Ludwig/DSWCI DX Window/Veldhuis-NL)

GERMANY Deutsche Welle Z-98 English sked:

0100-0150	6040A 6085C 6145W 9640W 11810S
0200-0250	7285W 9615T 9690W 11945N 11965T 12045M
0300-0350	6085C 6145W 6185C 9535S 9640A
0400-0450	5990K 6015W 7225K 9565K 11765W
0500-0550	6045S 6185A 9615W 11810B
0600-0650	11915W 13790S 15185W 17820T 17860W 21680T
0900-0950	6160A 9565K 12055R 15205L 15410K 17715T 17800K 21600W 21680W
1100-1150	15370K 15410K 17765W 17800K
1600-1650	6170T 7225T 9875V 15415W 7130K 9735K 11810K 21695W
1900-1950	9640N 9670T 11785T 11810K 13790W 15245K 15390W
2000-2050	9615S
2100-2150	7115N 9670T 9735K 9765W 11785T 11865W 15135K
2300-2350	5975J 6090T 7235W 9690T

A=Antigua B=Bonaire C=Sackville J=Kranji K=Kigali L=Talata M=Samara N=Nauen R=Irkutsk S=Sines T=Trincomalee V=Novosibirsk W=Wertachtal (Volk-FRG)

GHANA The unID African heard drifting up and down this range for the past couple of weeks turns out to be a spur of *GBC* on 4915. On 22-Feb, noted with talk in English, choral anthem and s/off at 0000 on 4792.9-4793.5v, *GBC R. One*. Interesting that the spur drifts but the fundamental doesn't. (28-Feb/Hill-MA)

GUINEA 9650 *Radiodiffusion Nationale*, Conakry, 2330 Mar 12, reactivated here and on //7125. African highlife selections, numerous announcement blocks with formal ID and frequencies, requesting reports. Reasonable signal but watery-sounding audio on 9650; trx to suggestion from Mark Veldhuis in #swl, checked listed parallels and found it 30 over 9 on 7125. Nice guitar IS 2345-2349, then back with same announcement and more music 2350. VO Russia started tuning up on frequency around 2355,

mixing thereafter. Announcements said: "Ici Conakry, Radiodiffusion Nationale de la Republique du Guinee. L'emission que vous ecoutez est...pour juger la qualite de nos emetteurs en ondes courtes. nos ecouteurs...communiquer les resultats de l'ecoute a l'address suivante: Direction General de l'estacion de Radiodiffusion, BP 3322, Conakry, Republique du Guinee. Telephone...(lots of numbers)...indique le lieu, l'heure, et le frequence d'ecoute de la present emission." Basically: They want to know the quality of their shortwave transmissions, and they want reports of the place, time and frequency where you heard this transmission. Send your reports to the address above. Frequencies given as 6155 7125 9650 and 15310. Both till going strong at 0230; 9650, free of QRM, better then. Found this quite by accident when checking 9650 for Uruguay, which was not heard tonight. Not heard Mar 13 or 14. Almost sounds like they received a Gabon-like infusion of cash from Paris. (12-Mar/Novello-NC)

GUYANA 5949.42 *GBC* 0931 odd subcontinental/tropical music, M ancr w/passing ID, W gives little speech about women's equality, back to odd musical format, creamed by WYFR *0955. Ouch! (23-March/Quaglieri-NY)

HUNGARY Radio Budapest, Z-98 Mar-29 to Oct-29:

0000-0100	Hungarian	9810 11910
0100-0130	English	6120 9580
0130-0230	Hungarian	9840 11685
0230-0300	English	9840 11910
0300-0330	Russian	3975 6145
0300-0400	Ukrainian	3975 6145
0400-0430	Romanian	3975 7290
0430-0500	Croatian	3975 7185
0500-0530	Slovak	3975 5985
0530-0600	Serbian	5980 9700
0900-1000	Hungarian	17780 21560 (Su -1100)
1200-1300	German	5970 7220 Su
1430-1500	Russian	5975 9530
1500-1530	Croatian	3975 7165
1530-1600	Romanian	3975 7165
1600-1630	Ukrainian	3975 7165
1630-1700	Slovak	3975 6185
1700-1730	Serbian	5990 6145 (Mo-Sa)
1700-1800	German	3975 5990 Su
1730-1800	German	3975 5990 Mo-Sa
1800-1900	Hungarian	3975 5960
1900-1930	English	3975 7170
1930-2000	German	3975 7180 Mo-Sa
1930-2000	Serbian	7120 7155 (Su)
2000-2100	Hungarian	3975 9505
2000-2100	Hungarian	15210
2100-2130	English	3975 11700
2200-2300	Hungarian	9840 11905 (Su -2400)

(7-Mar/Volk-FRG/EDXP/Padula-AUS)

INDIA 11815 *AJR* Feeder Service *0125 Unlisted freq s/on with IS and announcement "[?Ee-YON?]

Akashvani;" off at 0205, leaving R. Brasil Central in the clear. Back again at *0228 with improved signal. Also noted External Service fair on 11735 at *0215 in presumed Pushtu // poor 13620. (22-Mar/Hill-MA)

The newly formed Prasar Bharati Corporation which regulates *All India Radio* now, is already reeling under management problems and industrial action. Eventhough transmitter spares have been indented (as per government procedure), there is a delay in procuring them. Consequently, two 500 kW HF transmitters in the transmitting station near Bangalore has been rendered inoperable. This means reduced operations for the External Service. Also the fact that AIR is operating on HF round the clock from 8th Marchto carry special election bulletins heightens the scheduling load. These extended transmissions would continue until the new government formed by 15th March. The good news is that it is a good time to DX and secondly to get new QSLs under the Prasar Bharati masthead.

Also in a state of disrepair is the antenna switching hall in the Kingsway camp transmitter site in Delhi. The transmitters are up just about as the feeder lines have been plugged in directly to the curtain arrays. This means mismatched antennae and distorted/overloaded signals and also less number of beams and thereby reduced operation. (Guha-IND/DSWCI DX Window/Veldhuis-NL)

Home Service:

9565 not heard at 1330-1740,
9835 heard only at 1515-1600v? ?,
15135 replaced by 11815 at 0125-0400,
15260 not heard at 0700-0850,
15185 replaced by 11850 but only at 0730-0850,
6045 noted at 0228-0300,
3390 now sign on at 0100, some days they signed off at 1630,
7180 Sundays 0228-1135 continuous,
4990 Itanagar back on air after being off air for some months.

External Service:

0130-0229 Nepali 11715 replaced by 9550,
1215-1330 Tibetan 9565 not heard,
1230-1500 Sindhi 11585 replaced by 11650,
0700-0800 Nepali not heard on 9595 & 11850
(Jacob-IND/Guha-IND/DSWCI DX Window/Veldhuis-NL)

INDONESIA 2490.3 *RRI Ujung Pandang*, Local pops at 1912, M talk at 1917, poor. (8-Mar/Yamada-JPN/Jembatan DX)

2580.5 *RPDT2 Timor Tengah Selatan* (p) Local pops at 1353, Love Ambon at 1400, off at 1401*. Poor. (8-Mar/Yamada-JPN/Jembatan DX)

3126.0v *RPDT2 Halmahera Tengah*(p) Local pops program at 1408. Poor. (8-Mar/Yamada-JPN/Jembatan DX)

3264.7 *RRI Gorontalo*, 1221-1255*. (4-Mar/Schulze-PHL/DSWCI DX Window/Veldhuis-NL)

3264.83 *RRI Bengkulu*, 1255-1305, Local ID, 1259 SCI, time announcement, then *RRI Jakarta* relay "Warta Berita Ekonomi...." Weak, //3214.9, 3325, 3344.9, 3384.9, 3395.1. (4-Mar/Schulze-PHL/DSWCI DX Window/Veldhuis-NL)

3344.84 *RRI Ternate*, 1153-1200 fair, M vocal lagu. At 1159 ID "I inilah Radio Republik Indonesia Ternate dengan gelombang-gelombang 89.68 meter, 76.4 meter dan FM frekwensi 102MHz." then Rayuan Pulau Kelapa and Jakarta new s relay. (1-Mar/TIN-JPN/Relampago DX)

3355.3 *RRI Sumenep*(p) 2003-2015 Jakarta News, UTE QRM.(12-Mar/Takeno-JPN/Jembatan DX/Yamada-JPN)

3905.0 *RRI Merauke*, Irian Jaya, 2058, Song of the Coconut Island, followed at 2100 by *Warta Berita* by male speaker in Bahasa Indonesia. (16-Mar/van Rooy/DSWCI DX Window/Veldhuis-NL)

3959.7 Unidentified. 1856 "Angkatan Bersenjata Republik Indonesia" relaying *RRI Jakarta*. SCI at 1859. Jakarta news relay at 1900. Fair. (8-Mar/Yamada-JPN/Jembatan DX)

3960.2 *RRI Palu* (p), 1524-1535*, Bahasa Indonesia with local pop music, some talk and number of phone calls, mention Palu. No clear ID heard. (13-Mar/Kecskes/DX Window/Jembatan DX/Yamada-JPN)

3976.0 *RRI Pontianak*, 1255-1302 Talk program, 1259 ID "Radio Republik Indonesia, Pontianak" (11-Mar/Takeno-JPN/Jembatan DX/Yamada-JPN)

4000.2 *RRI Kendari*, 1215-1226 Program from Jakarta, ID as "Radio Republik Indonesia Kendari" at 1227. Good. (14-Mar/Takeno-JPN/Jembatan DX/Yamada-JPN)

4075.3v Unidentified. Local pops at 1444, SCI at 1458, Jakarta news relay at 1500. M talk at 1515, SCI at 1559, Jakarta news relay at 1600. Signed off at 1613. Poor. David Foster says this station is a spur of *RRI Pontianak*. (8-Mar/Yamada-JPN/Jembatan DX)

4777.13 *RRI Jakarta*; 1455-1500 fair, lagu hiburan and national news. (28-Feb/TIN-JPN/Relampago DX)

4845.2 *RRI Ambon*, 0928-0932 Choral music, ID. (14-Mar/Takeno-JPN/Jembatan DX/Yamada-JPN)

4874.6 *RRI Sorong*, Irian Jaya, 1152, Local music with high woman's voice piercing up through the noise floor. Faded up a bit for short male announcement 1159, then SCI and talk thereafter. (13-Mar/Novello-NC)

4874.56 *RRI Sorong*, 2127-2122, Indonesian. Polynesian sounding music into pips, IDs and local news mentioning Sorong a couple of times. (13-Mar/

Boogert/DSWCI DX Window/Veldhuis-NL) 1959-2010, with Coconut song, local news, 2007 NA followed by more pop music. Heard again in our mornings. (10-Mar/Kecskes/DSWCI DX Window/Veldhuis-NL)

4925.0 **RRJ Jambi**, 2157, Quoran prayer until 2159, then male speaker in Bahasa Indonesia with ID as: "programa satu Radio Republik Indonesia Jambi," followed by Song of the Coconut Islands. At 2200 warta berita by female speaker. (20-Mar/van Rooy/DSWCI DX Window/Veldhuis-NL)

6024.5 **RRJ Banjarmasin**. 2115 call to prayer, still on air at 2158. Usually closes at 2100. (13-Mar/Foster/NU/Jembatan DX/Yamada-JPN)

11785.0 **VO Indonesia** 0102 W in EE w/nx incl items about IMF and Indonesia's economic crisis. Fair and gaining strength, battling w/Brasilian on 11785.14. //9525 even better and in the clear using USB. (3-Mar/Quaglieri-NY)

15150.0 **Voice of Indonesia**, 1800-1805, End of Spanish program mentioning frequencies, into start of German program "Stimme Indonesiens" mentioning 9525, 11755 and 11785 kHz, but only this outlet was heard. 1804 news read by native German woman presenter. 35444 (13-Mar/Boogert/DSWCI DX Window/Veldhuis-NL)

* **RRJ Sorong** 4874.6kHz broadcasts English program at 1130 every Sunday. Station on 4874.6kHz signs off at 1400 and signs on at 2000. (Yamada-JPN/Jembatan DX)

IRAN Here is a monitored schedule of **VOIRI** Arabic service:

5995	2130-0530 (or 0730)
6025	1700-2330
6120	+0030-0330+ (noted on 19/2, but not on 26/2)
6150	1930-0130
7130	0330-0730
7170	0330-0530
7190	0330-0530, 1430-2130
7220	0330-0730
7260	2130-2330
9022	2130-2330
9615	+0030-0230+ (noted on 26/2)
9665	1700-2030
11745	0930-1330
11995	1330-1700
13605	0930-1130
15125	0530-1230
15350	0530-1430

This schedule includes the **Voice of Palestine** (Sawt Al Palestine) in Arabic between 1930 and 2027 on 6025, 6150, 7190 and 9665. There is a second clandestine program in Arabic via **VOIRI** (Voice of the Islamic Revolution in Iraq) between 0330 and 0527 on the following additional frequencies: 6195, 7115, 7295 and 9610. (19-Feb/Timofeyev-RUS)

9520 **VOIRI** 0430, New frequency for Turkish service, strong signal over co-channel Radio Liberty. (28-Feb/Ormandy/DSWCI DX Window/Veldhuis-NL)

IRAQ Iraqi Radio's main dom sce, which is on the air from 0255-0015, is heard intermittently on 9715 kHz around 0615-1000, and approx. 1000-1400 11785.

Radio Iraq International has been heard again for the first time in several weeks. It was observed, with very poor reception, on 23rd Febr with a program in English 0400-0500 11785. (BBCM)

ISRAEL [As much as I appreciate the info, I don't believe I've ever seen an accurate and complete **Kol Israel** schedule posted online. This one is no exception, plus it was so convoluted it took a half-hour to format. Grrr!-AQ] **Kol Israel**, from 29-Mar thru 25-October:

A-Reshet Alef domestic relay

B-Reshet Bet (Hebrew) domestic relay

D-Reshet Daled (Arabic)

H-Reshet Hey—International Service

R-Reka—Network for immigrants domestic service relay

0000-0100	Hebrew-B	11585
0100-0300	Hebrew-B	15615 11585 9390
0300-0400	Hebrew-B	15615 11590
0300-0530	Arabic-D	15480 9815 5915
0400-0415	English-A	17535 11605 9435
0400-0455	Hebrew-B	15615 11590 9390
0500-0515	French-R	15640 11605
0500-1600	Hebrew-B	17545 15615
0530-1030	Arabic-D	15480 5915
1000-1030	French-R	15650 15640
1030-1035	English-R	15650 15640
1030-1200	Arabic-D	5915
1200-2110	Arabic-D	12140 9815 5915
1400-1430	English-A	17535 15650
1400-1500	Persian-H	15640 11605 9435 Fr/Sa
1400-1525	Persian-H	15640 11605 9435 Su-Th
1500-1525	SS/Ladino-H2	1625 17535 15640 Sa
1540-1545	French-H	17535 15650 11605
1545-1557	English-H	17535 15650 11605
1600-1630	Yiddish-R&H	15650 15640 11605 9435
1600-1700	Hebrew-B	17545 15615 11590
1625-1645	Romanian-H	15640 11605 9435
1635-1645	Maghrebi-R	15650
1645-1700	Ladino-R	15650
1700-1725	Yiddish-R&H	15640 11605 9435
1700-1740	Hebrew-B	17545 15650 15615 11590
1725-1735	Spanish-R	15650
1730-1855	Russian-R&H	11605 9435
1740-1800	Hebrew-B	17545 15615 11590
1800-1855	Hebrew-B	17545 15615 11585
1855-1855	Hebrew-B	15615 11585
1900-1925	English-H	15640 15650 11605 9435
1900-2000	Hebrew-B	15615 11585 9390
1930-1950	French-H	17545 15650 15640 11605

1950-2000 Spanish-H 17545 15650 15640 11605
 2000-2055 Hebrew-B 15640 15615 11585 9390
 2055-2100 Hebrew-B 15640 11585 9390
 2100-2110 Hebrew-B 15640 11585 9390
 2110-2400 Hebrew-B 11585
 ???-???? Hungarian-H 15640 11605 9435
 ???-???? Judeo-Tat-H 11605 9435 Fr
 ???-???? Georgian-R 11605 9435
 ???-???? Bukharian-R 11605 9435
 (Rosenzweig/rec.radio.shortwave)

ITALY RAI schedule from 29-Mar:

0050-0110 English 6010 9675 11800
 0050-0110 Spanish 9575 11755
 0110-0125 French 6010 9675 11800
 0110-0125 Portuguese 9575 11755
 0130-0230 Italian 6010 6110 9575 9675
 11755 11765 11800
 0230-0305 Italian 6010 9575 9675 11755
 11800
 0305-0325 Italian 6010 9675 11800
 0305-0325 Spanish 6010 9575 9675 11755
 11800
 0330-0350 Russian 5975 9670 11800
 0350-0410 Ukrainian 5975 9670 11800
 0400-2200 Italian-a 6060 9515
 0400-2200 Italian-b 7175
 0415-0435 Amharic 15250 17780
 0430-0600 Italian 6110
 0435-0510 Italian 15250 17780
 0445-0505 Lithuanian 5975 9670
 0510-0530 Romanian 5975 7240
 0510-0530 Somali 15250 17780
 0535-0555 Arabic 11900 15250
 0535-0555 Russian 9670 11800 15280
 0600-1000 Italian 6110 7240 15240 21520
 1000-1100 Italian 6110 7240 11925 15240
 21520
 1100-1200 Italian 6110 7240 15240 21520
 1200-1300 Italian 15240 21520
 1330-1355 Arabic 7290 9670 11800
 1335-1355 Albanian 5990 7240
 1400-1415 Slovene 5990 7240
 1400-1425 Italian 15250 17780
 1415-1435 German 5990 7240
 1435-1455 Croatian 5990 7240
 1500-1520 Turkish 5970 7240
 1500-1525 Italian 5990 7290 9670
 1520-1540 Greek 5970 7240
 1530-1555 French 5990 7290 9670
 1540-1600 Bulgarian 5970 7240
 1555-1625 Italian 5990 7290 9670
 1605-1625 Russian 9670 11800 15280
 1630-1655 Arabic 9690 11880 15280
 1630-1655 French 9670 11840
 1700-1800 Italian 9760 11840 15250 15320
 1805-1825 German 5990 7160 9670
 1815-1830 Czech 5970 9530
 1830-1845 Slovak 5970 9530
 1830-1905 Italian 15250 17780

1845-1905 Polish 5970 9530
 1910-1930 Serbian 6110 9670
 1910-1930 Somali 9695 11910 15250
 1935-1955 English 5970 7145 9760
 1935-1955 Hungarian 6110 9670
 2000-2020 Danish 9655 11860 Su/Tu/Th
 2000-2020 Esperanto 9655 11860 Sa
 2000-2020 Russian 6035 9670 11800
 2000-2020 Swedish 9655 11860 Mo/We/Fr
 2025-2045 Arabic 6110 7290
 2025-2045 English 7120 9710 11880
 2050-2110 Portuguese 6110 7290 9710 11880
 2110-2130 Spanish 6110 7290
 2115-2135 Romanian 5970 7120
 2125-2155 Czech 5970 7120
 2135-2155 Arabic 6110 7290
 2155-2210 Slovak 5970 7120
 2200-0400 Italian-c 6060
 2200-2225 English 6150 9675 11900
 2210-2225 Polish 5970 7120
 2230-0050 Italian 6010 9675 9575 11755
 11800

a=Radio Uno

b=Radio Due

c=Notturmo dall'Italia

On Sundays from 1345-1700 is a special broadcast of "Tutto il Calcio minuto per minuto," sport news in Italian, frequencies 9855, 17789, 21535, 21520 and 21710. (Serra-IT)

Adventist World Radio has purchased 133 acres of land near the small town of Argenta in north-eastern Italy. Dr. Don Jacobsen, Director of the worldwide AWR System, states that this site will be the location of a large shortwave station capable of reaching more than one third of the world's total population. A new transmitter building at Argenta will house four large shortwave transmitters with the option of adding two more. Initially, the antenna field will contain six highly directional antennas. Ground breaking ceremonies at the Argenta property are scheduled for later this year. Plans call for this new station to be switched into regular service in July in the year 2000 during the worldwide Quinquennial Convention of the Seventh-day Adventist denomination in Toronto, Canada. (Adrian Peterson/Lamb-NY)

JAPAN Some changes are coming for Z-98 in **R. Japan** relays via Sackville, Canada, starting April 1 at 0100. English in the morning on 6120 reverts to only one hour, at 1100, but there's a new hour at 0000 on 11705, along with the usual 0500 on 6110. In Japanese, the general service hour will be at 0200 on 5960; the "R1" service, domestic relay, I suppose, will be at 0300 on 5960, 1300 and 1400 on 11705 and new 2200 on 11705. The French Guiana relay no longer will carry any English, just Japanese, Spanish and Portuguese (Hauser-OK/Leite)

NHK-World Radio Japan's English plan for Z98:

0000-0015	11815 13650
0100-0200	11870 15570 15590 17810 17835 21610 21670
0300-0400	17685 17825 17855
0500-0600	9835 11715 11760 11840 11850 15230 17810
0600-0700	9835 11840 11850 17810
1000-1100	9695 11730 11850
1100-1200	9695 11730
1400-1500	9505 11730
1500-1600	7200 9505 9750 11730
1700-1800	6090 7110 9535 9825
2100-2200	9725 11850 13630

(21-Mar/Hishikawa-JPN/NHK-World/R.Japan/
WWDXC Top News/Bueschel-FRG)

LIBERIA 5470 *Radio Veritas*: VN/EE; 0518 M religious tlc in local language, 0528 back to EE w/M ID "This is Radio Veritas, the radio stations of the Catholic Media Centre, broadcasting to you from Monrovia, Liberia." + freqs, then canned promo "For complete coverage of news and events, topics...(??)...of national concern, and religious radio programs, no one features the diversity of programming like we do. Radio Veritas—broadcasting from Monrovia on 97.8 FM, 5-point-4-7-0 MegaHertz in the 90 meter band, and 3-point-4-5-0 MegaHertz in the 60 meter band shortwave. Listen to Radio Veritas! We are the voice of truth!" [notice they got their hands mixed up...] At 0530 cock crows, then W into EE nx...Fair, weaker past 0600. (23-Mar/Quaglieri-NY)

MADAGASCAR 3287 *Radio Madagascar*, last year they moved to 3140, but now it seems that they have returned to former 3287, heard during the African Cup of the Nation until late night. I presume they have quit 3140 for a while. (Vaghjee-MAU/DSWCI DX Window/Veldhuis-NL)

5009.50, *Radio Madagasikara*; Antananarivo, 1914-2000 in Vernacular with excellent Afro, reggae music. Best of the Africans this morning. (28-Feb/Kecskes/DSWCI DX Window/Veldhuis-NL)

MALAYSIA Radio-Television Malaysia (RTM) Some programs broadcast via Voice of Malaysia identify themselves as "Voice of Islam."

0455-0700	English*	15295 9750 6175
0700-0825	English	15295 9750 6175
0830-1025	Malay	15295
0900-1500	Indonesian	9750 6175
1030-1230	CC/Cantonese	15295 11885
1300-1430	Thai	6100
1400-1600	Malay*	9750 6175
1430-1530	Burmese	6100
1600-1700	Arabic	15295 9750 6175
1700-1900	Malay	15295 9750 6175
2200-2400	Indonesian	9750 6175 6100

*=Voice of Islam (BBCM)

3385 4835 7160, all not active!!! Strong co-ch QRM on 7130, so not sure if there is any MLA program active. (Schulze/DSWCI DX Window/Veldhuis-NL)

MALTA Effective Mar-29, *Voice of Malta*, Valetta, presumed German, Suns 1130 via RAI Rome facilities [0900-1200] 9600 and 2030 on 12060 [Sherpukhov Russia 250 kW 250 degr]. (12-Mar/Zimmermann/Gery/www/BCDX/EDXP/Padula-AUS).

MEXICO XERTA is back, after an absence of 4 or 5 months. Hector Garcia B. in Mexico City tells me he first heard them in the daytime March 13 on 4800, but on March 14, 15 they had problems and were on 4952 instead. March 16, back to 4800. I was hearing a carrier on 4800.7 that day, and on March 17 at 1225, definite ID in French, also during following hour with previous format of music and frequent produced IDs, the same as used before. This is all bad news for Buenas Nuevas, the Guatemalan on 4799.9, with an equally strong signal; the two produce a heavy heterodyne when both are on, and are difficult to separate. XERTA really ought to get a frequency not already used by a neighboring country! By March 19 around 0530, XERTA was relatively clear, now with live DJ and timechecks, more talk; same at 1150 check but now again versus TGBN. After 1230 or so the Guatemalan begins to fade and XERTA has the upper hand for about an hour (Haus-er-OK)

6185 R. Educacion 0907 gangbusters w/tourism show in EE about Guadalajara, SS/EE ID @0913, into SS programming w/mx. (23-Mar/Quaglieri-NY)

MOROCCO RTM is heard back on air via what I think are the Tangier transmitters. On March 1 found on air at 1010 in Arabic on 15345 and was then //with the VoA Briech relay on 15335, when that came on at 1100-1500. 15345 was still going at 1900 when faded/mixed with RAE ARG v15344.92, on March 2 carrier was noted on 15345 at 0845 and Arabic programming commenced at 0903. On March 1 I looked for English service which used to be on either 17595 or 17815 at 1400, but only Cairo found on air on 17595 and nothing on 17815. However, I was able to check again at 1530 and found v17814.8 on air with strong signal in French with a mixture of rock/pop music and talks with news at 1600, 1700 & 1800 (or thereabouts!) and at 1804 came an English ID as the "International Service of Radio Morocco." Music and announcements followed until the signal took a sudden turn for the worst at 1823 and quickly faded out. My guess is that French started at 1500 and the English program is retired to 1800. No signal on 17815 so far at 1500 today. Only Brazil very weak on there. 15345 is still on at 1500 with good strength. Both transmitters --15345 and 17815--have a buzz in the audio, but are strong signals. Beware of Saudi Arabia also on 15345 during our afternoons, 1200-1500 Ur & Be. The RTM

Tangier transmitters have been off for at least a year. (Green-UK/EDXP/DSWCI DX Window/Veldhuis-NL)

MOZAMBIQUE 4945 *Radio Mozambique*, Maputo, 1740, Live commentary on African Cup Football. Checked again at 2120: continuous music program. ID as Emissao Interprovincial Maputo at 2200, then news in Portuguese, NA, S/off at 2210. Very poor signal, //1008 kHz. (28-Feb/Vaghjee-MAU/DSWCI DX Window/Veldhuis-NL) Em. Interprovincial Maputo has moved to 4947.5. Heard at 2000. Station is now nearer to Angola (4950); both are in Portuguese and with the same type of music; still hard to hear. (11-Mar/Vaghjee-MAU/DSWCI DX Window/Veldhuis-NL)

NEW ZEALAND *Radio New Zealand International* 29 Mar-03 May:

0459-0716 11905 Mo-Fr (0459-0758 Sa/Su)
0717-1206 9795 Mo-Fr (0759-1206 Sa/Su)
1650-1851 6145 Mo-Fr
1852-2051 11735 Su-Th (1852-2106 Fr/Sa)
2052-0458 17675 Su-Th (2107-0458 Fr/Sa)
1207-1650 6105 occasional use for Sporting broadcasts and/or Pacific Cyclone Warnings.

(20-Mar/Sainsbury-NZL/WWDXC Top News/Bueschel-FRG)

NIGER 5020 *La Voix du Sahel*, Niamey, back after many months off the air, at 1700 to 1859 in Arabic and African language with news and music, 1815 Afro and EE mx to 1859, then IS and ID in French: "Ici Radio Niger," into news. Very poor reception. (6-Mar/Vaghjee-MAU/DSWCI DX Window/Veldhuis-NL)

NIGERIA *Voice of Nigeria*:

0500-0700 English 15120 7255
0700-0800 French 15120 7255
0800-0900 Hausa 15120 7255
0900-1000 Fulfulde 15120 7255
1000-1100 English 15120 7255
1100-1200 French 15120 7255
1200-1300 Hausa 15120 7255
1300-1400 Fulfulde 15120 7255
1400-1500 Swahili 15120 7255
1500-1700 English 15120 7255
1700-1800 Arabic 15120 7255
1800-1900 French 15120 7255
1900-2100 English 15120 7255
2100-2200 Fulfulde 15120 7255
2200-2300 Hausa 15120 7255

(BBCM)

NORTHERN MARIANAS ISLANDS Sked of *KHBI* Saipan:

0000-0100 Multilingual 15665
0800-0900 Multilingual 15665
0900-1000 Multilingual 15665 13840
1000-1100 Multilingual 15725 15665

1100-1200 Multilingual 15665 9385
1200-1300 Multilingual 9385 9355
1300-1400 Multilingual 9385 9355
1400-1500 Multilingual 9355
1800-1900 Multilingual 9385 9355
1900-2000 Multilingual 9385 9355
2000-2100 Multilingual 13840
(BBCM)

PAKISTAN 6290 *Radio Pakistan*, 1850, Poor-fair signal in Urdu. Presume this is why Voice of Hope moved to 6285kHz. (4-Mar/Ormandy/DSWCI DX Window/Veldhuis-NL)

Radio Pakistan's M-98 schedule fr Mar 8th-May 2nd has now arrived and is:

0100-0215 Urdu 11760 15485
0230-0245 EE-SSN 7485 11760 13610K
15485
0330-0400 Gujrati 15325 17555
0430-0630 Urdu 11725 15170 17555
0800-1120 Urdu 15530 17830
0900-0930 Indonesian 15425 17540K
1000-1030 Tamil 15405 17540K
1100-1145 Hindi 7255 9610 11995K
1200-1230 Chinese 9705 11835
1200-1245 Mitali/
Bangla 9775 11975
1300-1345 Persian 9775 11975
1330-1530 Urdu 9650 11570 15495K
1430-1500 Turki 5055 6070
1500-1530 Russian 5055 6070
1600-1630 English 9650 11570 15495K
15170 17720
1700-1900 Urdu 9330 11570
1730-1800 Turkish 7340K 9400K
1800-1845 Arabic 7460 9425
1800-1900 Urdu 7255
1930-2000 French 11570

K= Karachi 50 kW others Islamabad 100/250 kW.

Home scès

API1 100 kW

4275 1414 Balti nx 1422-1430 Sheena nx.

API2 100 kW

6060 0330-0430 Balti 0445-0545 Sheena.

5010 1300 Urdu nx 1304-1600 Pushto.

API4 100 kW

7110 0600 Urdu nx 0604-0800 Rawalpindi progr
incl. 0700-0704 Punjabi nx 0800-1115
Islamabad progr incl. 0800-0804 Sindhi nx
Pushto nx 0900-0904 Urdu nx 1000-1004 E
nx at 1100-1104.

Link services from Islamabad API-7 10 kW

6070 0100-0102 Urdu 0200-0225 Urdu comm &
editorials.

0230-0245 link for slow speed nx bulletin.

7270 0300-0310 E nx 0400-0404 Urdu 0500-0504
E nx

0600-0604 Urdu 0700-0704 Punjabi0800-0804 Sindhi
9645 0900-0930 Indonesian link 1000-1030 Tamil link
1100-1104 E nx 1200-1210 Urdu nx&comm
1230-1300 Kashmiri 1302 Punjabi 1309-1316 Sindhi 1400-1414 E nx & commercial nx 1500 Urdu nx & comm 1515-1530 Urdu newsreel.
7230 1600-1630 E nx comm link for slow speed bulletin 1700-1715 Urdu nx/
Pasmanzar1730-1800 Turkish link. I've tried many times to hear API-7 but never succeeded. I presume the "Link Service" it provides is an emergency feed perhaps to regional stations and to Karachi. The audio I hear via Karachi sounds more like a telephone line though.

API8 100 kW Rawalpindi III
4790 0045-0435 1230-1330 1345-1815.
7265 0800(Fri 0930)-1215

Regional sces Quetta 10 kW
5025 0045-0404(Fri-0345) & 1200-1805
7155 Fri 0400-0820 1000-1145. Sat-Thur 0600-1145.

Peshawar 10 kW
5045 1100-1400
(16-Mar/Green-UK/WWDXC Top News/Bueschel-FRG)

PAPUA NEW GUINEA While in New Zealand and Fiji, I regularly heard the stations on 2410, 3220, 3245, 3260, 3275, 3305, 3315, 3325, 3365, 3385, 3395, 3905, 4890 and 9675 kHz, some with strong signals. I suspect that the following stations on 90 meters are inactive for the time being: Vanimo 3205, Kimbe 3235, Boroko 3290, Wewak 3335 (other DX-ers report this as sporadic on the air on 27-Dec and 08-Feb), Kundiawa 3355 and Mt. Hagen 3375 kHz. The reason for this inactivity may be the present drought on PNG with limited or no water energy available. PNG is covered by the strong Trade Winds from South East which means that these cities have a Fohneffect from the nearby mountains and therefore particularly the severe drought. (Petersen-NZ/DSWCI DX Window/Veldhuis-NL)

PERU 3234.82 *Radio Luz y Sonido*, 1015-1030, Initially Huaynos music followed by Spanish comments from a man. Shortly a second man joins in. After a few moments, back to Huaynos music. Signal was very good, but had a TTY right on top. (12-Mar/Bolland/DSWCI DX Window/Veldhuis-NL)

3330.43 *Radio Ondas de Huallaga*, 1025-1035, man in comments with ID. This followed by music with comments over. Possibly romantic comments considering the tone. Signal was good, but CHU cause some QRM. (12-Mar/Bolland/DSWCI DX Window/Veldhuis-NL)

3339.94 *Radio Altura*, 1030-1045, Long period of comments from a man followed by canned ID, "Radio Altura...", then into Huaynos music. Signal was good. (12-Mar/Bolland/DSWCI DX Window/Veldhuis-NL)

4300.0 *R. Hualgayoc* is on Jiron San Martin, the only street of the mining town of Hualgayoc. The transmitter is the one Frecuencia Lider—R Bambamarca was planning to operate as "R Estacion Norte." Owner is Maximo Zamora Medina. Poor signal, Feb 19, 0040, when they were playing a Peruvian version of a Colombian hit (in the "despecho" line) from 1992, "Nadie es eterno en el mundo" (Klemetz-COL/Dateline Bogota)

4485.0 "*Frecuencia VH, la inigualable*" and "*RVC, estacion de amor*," Feb 23, 0015, with message slot, followed by esoteric prgr, 0030, where moderator "el gran maestro Segundo Herrera" greeted listeners to his prgr on "R Frecuencia VH, La V de Celendin." Earlier, the DJ said sked for Feb 24 would be "5am-11pm, electricity permitting." (Klemetz-COL/Dateline Bogota)

4505.0 *R. Horizonte*, ex-4534, 1045, "La V de la Liberacion." (3-Mar/Klemetz-COL/Dateline Bogota)

4700.6 *R. Origen*, Huancavelica; 1140-1215 mx huayno ID "Esta es la linda programacin de su Radio Origen..." mx ID "Origen, las dems nos siguen..." (28-Feb/Arrunategui-PRU/Chasqui DX)

4752.5 *Radio Huanta Dos Mil*, 1007-1015, Huaynos music and Spanish comments from a man. ID, and TC's with mentions of "Peru" during comments. Signal was fair but only audible in LSB due to Indo just above. (12-Mar/Bolland/DSWCI DX Window/Veldhuis-NL)

4855.54 *Radio La Hora*, 1030-1105, man in Spanish comments, TC's and ID followed with music. Signal was fair at beginning of period, but by 1105 was to poor level. (11-Mar/Bolland/DSWCI DX Window/Veldhuis-NL)

4890.16 *Radio Chota*, 1148-1152 poor, px "Amanecer Campesino," M read a letter from listener in Cochabamba. At 1152 IDed as "Esta es Radio Chota, transmitiendo para todo el pais en ondas media y corta en forma simultanea...gracias por su sintonia." (28-Feb/TIN-JPN/Relampago DX)

4950.10 *Radio Madre de Dios*, 1035-1050, Average signal. (10-Mar/Wilkner/DSWCI DX Window/Veldhuis-NL)

4955.0 *R. Cultural Amauta*, Ayacucho, 1100 relaying news from R Programas del Peru. (3-Mar/Klemetz-COL/Dateline Bogota)

4970.83 *Radio Imagen*, 0950-1000, steady music and some comments during period. (10-Mar/Bolland/DSWCI DX Window/Veldhuis-NL)

4990.94 *Radio Ancash*, Huaraz, 1115-1120 px "Cushi Cushum" (25-Feb/TIN-JPN/Relampago DX)

4995.58 **Radio Andina** in well at 0958 past 1030 with morning programming of crude local music and many anmets, including a PSA by a crazed-sounding W. Usual cruddy audio. (23-March/Quaglieri-NY)

5018.6 **Radio Horizonte** back on the air in early March. Usually no S/off announcement immediately prior to close down. On March 12, 0050, canned program off cue: "En Horizonte, hemos presentado "Ho-la paisita." Feliz noche. Hasta manana." Then into devotional feature and NA. (12-Mar/Klemetz-COL/Dateline Bogota)

5018.65 **Radio Horizonte**, 0055, Music and IDs. Quite strong. (15-Mar/Kuhl/DSWCI DX Window/Veldhuis-NL) 5018.7 **Radio Horizonte**, Chachapoyas, 2320-2345, Spanish, time announcements and ID by woman: "Son las siete y 21 minutos en Radio Horizonte;" advertisement for a lottery, huayno music, mensajes. 33423. Reactivated station, often audible here in Germany from 23.00 UTC onwards. (13-Mar/Schnitzer/DSWCI DX Window/Veldhuis-NL)

5039.19 **Radio Libertad**, 0932-0955, Steady Huaynos music. Comments by a man. Canned promos and ID using echo effect. Signal was fair with out QRM, but at 1000 adjacent signal comes up and causes a lot of splatter ruining everything. (12-Mar/Bolland/DSWCI DX Window/Veldhuis-NL)

5039.22 **Radio Libertad**, 1013-1020, a man in Spanish comments with many mentions of "Peru" and "Lima." Signal was poor due to high noise mainly. (10-Mar/Bolland/DSWCI DX Window/Veldhuis-NL)

5305.0 **Radio La Inmaculada** manager is R.P. (short for Reverendo Padre, the way you address yourself to a priest) Jorge Carrasco. News program at 0100 is "Potencia 21," not "Potencia 1" as I reported earlier. (Klemetz/DSWCI DX Window/Veldhuis-NL)

5522.2 **Radio Satelica?**, 2340-0010, Is a little confusing. Probably **Radio Sudamerica** with new name, as the station transmits exactly on the same frequency. I am a little unsure of the exact name, having a clear ID at 2359 as "Maurico en Radio Satelica, son las 7 de la noche," but the name to me doesn't sound too correct Spanish. But the pronunciation is correct, with stress on the last but one syllable. Then at 0008 two other ID's could sound like Satelica, but also as Radio Favorita as well. But these two are more uncertain, so I'll put my dollar on Satelica. All these ID's came after a long, rather boring, program ending at 2358 as "aqui paso otra edicion de su programa 'En (?) andina rural. Un cuento con (pasionate?) mundo (andino?) oculta, atraves de los hermanos Gand. Un mensaje de amor y comprension para (ser humano?) desde del cuenta....?..ofensiva, afinados o maltratado por la vida: ven aqui." (14-Mar/Hermod/DSWCI DX Window/Veldhuis-NL)

5678.1 **Radio Ilucan** back after weeks of silence, 0050, mixing with **Radio Frecuencia San Ignacio**,

5677. Not audible March 12. (11-Mar/Klemetz-COL/Dateline Bogota)

5645.8 **Radio Cultural Amauta**, Bambamarca, first noted February 21, then most nights. March 3, 0100 "Paraiso tropical." Slogans such as "la radio jove de Bambamarca," "la nueva estacion radial de Bambamarca," and canned ID—with heavy reverb—such as "Cultural Amauta, siempre en su corazon," and "La mas variada programacion musical Usted la encuentra (...) en su radio amiga, Cultural Amauta, que nacio para servir." Studio address is no longer that of La V de San Antonio, but rather somewhere along Jiron Jaime de Martinez, in the town of Bambamarca. (3-Mar/Klemetz/DSWCI DX Window/Veldhuis-NL)

5995.26 **Radio Melodia**, 1045-1100, two man in conversation. Since station moved up in frequency, have noted Radio Melodia staying in for longer period of time, well pass sunrise. Canned promos and ID at 1050. Signal this morning was good. (12-Mar/Bolland/DSWCI DX Window/Veldhuis-NL)

6535.76 **Radio Huancabamba**, Huancabamba, Piura, 0005. Andean country music with organ and accordian, ads, and ID's inserted over music and mentioned in passing multiple times by male DJ. Fine signal in rare absence of QRN. (14-Mar/Novello-NC)

6675.5 **Radio Ondas del (Rio) Maranon**, most nights until S/off 0100 approx. (Klemetz/DSWCI DX Window/Veldhuis-NL)

6674.56 **Radio Ondas del Rio Maranon**, Aramango; noted at 1145 with weak signal, OA folklore. (28-Feb/TIN-JPN/Relampago DX)

6811.53 **Radio Ondas del Rio Mayo**, Nueva Cajamarca; *1015-1022 fair, S/on with the following opening announcement: "Amables oyentes tenga n todos y cada uno de Uds. muy buenos dias. A esta hora Radio Ondas del Rio Ma yo se complace en presentarles nuestra programacion correspondiente al dia de hoy, sabado, 28 de febrero de 1998." then continued with the morning music sho w "El Madrugador." (28-Feb/TIN-JPN/Relampago DX)

7746.0 **Radio Cristal**, 1155 lively music and Spanish, 1204 mentioned San Hilarion in cerveza, mueble ads, and 1206 R. Cristal ID in passing; starting to fade. (6-Mar/Hauser-OK)

PORTUGAL R. *Portugal's* Winnie Almeida made a very brief announcement at 0457 March 18 on 6150, 9570 that their English service would be closed down at the end of March. As usual, it was very difficult to understand her amid the low modulation, co- and adjacent-channel interference. Until then the English sked is: M-F 1430-1500 to ME on 21515 [heard a trace of it here]; 2100-2130 Eu 7110, 9780, 9815; UT Tue-Sat 0430-0500 6150, 9570 (Hauser-OK) All foreign language programs end as of March 31, also French and Tetum [for Timor]. English had

been on the air since 1954 and was known as Voice of the West in the 60s and early 70s. Portuguese external services will continue on a restructured schedule. (Baker-UK/Barracough/World DX Club/World of Radio/Hauser-OK)

QATAR Dohar noted on new 9520 0315-0630, ex usual 7210 at *0245-0705* and//9570, very bad choice: RL in Ru 0200-0800, VORI Tehran in Swahili 0415/0420-0427* plus Turkish *0430-0527* and Bosnian *0530-0627*, VoSudan (cland.) *0400v-0600v* on 9519.1 (10-Mar/Timofeyev-RUS)

RADIO FREE ASIA Additional *RFA* broadcast in Mandarin:

7530 1800-2000 7530 9355 9650 9885 9905
(Ferguson)

ROMANIA 6040 *Romania Aktualitati*, 2315, In Romanian. // mediumwave, good signal but terrible, distorted audio. Noted next day at 1525 on 9570. Seems, that 17850 at noon as well as 9570 and 6040 are the same disrepair transmitter (120 kW) at the Galbeni site, near Bacau. (24-Feb/Ludwig-FRG/DSW-CI DX Window/Veldhuis-NL)

RUSSIA Active shortwave transmitters carrying regional programs:

4040	5	2200-1800	Tura
4485	15	0000-2000	Yazykovo
4520	50	1800-1400	Palana
4820	50	0000-2000	Khanty-Mansiysk
4825	50	2000-1600	Yakutsk
4860	80	2000-1600	Chita
4895	50	0000-2000	Tyumen
5290	5	0000-1600	Perm
5290	50	2200-1800	Krasnoyarsk
5930	50	0200-2200	Monchegorsk
5940	100	1800-1400	Arman
5050	5	2000-1600	Blagoveschensk
6095	3	0000-1600	Khanty-Mansiysk
6160	40	0200-2200	Arkhangelsk
7140	50	2000-1600	Yakutsk
7200	5	0200-1600	Yoshkar-Ola
7200	100	2000-1600	Yakutsk
7210	100	2000-1600	Khabarovsk
7320	100	1800-1400	Arman
7345	50	2000-1600	Yakutsk
9530	100	1800-1400	Arman
9600	100	1800-1400	Arman
11650	5	1605-2000	Perm
11840	15	1800-1400	Yuzhno-Sakhalinsk
15165	5	1605-2200	Yoshkar-Ola
15235	3	1605-2000	Khanty-Mansiysk

All transmissions are one hour earlier (UTC) in summer season (April-October). All regional stations relay Radio Rossii when not broadcasting their own programs.

Inactive regional shortwave stations:

4030	15	Anadyr
4050	15	Yuzhno-Sakhalinsk
4485	100	Petropavlovsk-Kamchatskiy
4610	15	Komsomolsk/Amur
4795	50	Ulan-Ude
5015	100	Tavrichanka
7185	3	Perm
15200	3	Perm

(Rudnev-RUS)

7440 *Voice of Vietnam*, Moscow area, 1800, Transmitter switched from Voice of Russia German service into the program feed from Hanoi, bringing Voice of Vietnam's English service // direct 12019, SIO 555. The satellite feed isn't perfect, but that get's compensated by the Russian modulation brilliance, compared with the muffled audio from the Vietnamese transmitters. Regarding Noel Green comments: There is no carrier break at 2000, so Voice of Vietnam and Voice of the Mediterranean originates from the same transmitter and antenna. I would estimate, this outlet is performed with a 250 kW unit (perhaps two ones) and a antenna beam of some 260 degrees, covering both Europe and North Africa. (6-Mar/Ludwig-FRG/DSWCI DX Window/Veldhuis-NL)

Amur Radio, Blagoveschensk

0000-1800	Russian	6060
2000-2359	Russian	6060

Local programs: 0010-0100 0300-0400 0610-0700 0910-1000 2110-2200 2210-2300 (BBCM)

Radio Bashkortostan (Ufa) This station carries the music channel of Russia's Radio when not carrying its own local programs.

0000-2200	Russian/Bashkir	4485
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Local programs: 0200-0300 Mo-Sa, 0300-0400 Su, 0400-0900 Sa/Su, 0700-0900 Mo-Fr, 1300-1500 Mo-Fr. (BBCM)

SOMALIA *Radio Mogadishu Voice of the Somali Republic* was heard again 10th Mar 1720-1800. It was bcing on its previous SW freq of 6822 kHz. (BBCM)

SWEDEN *Radio Sweden* English Schedule effective Mar-29:

0100	11985
0230	9495 (alt. 7135)
0330	9475 (alt. 11665)
1130	15240 17870
1230	13740 15240
1330	13740(alt. 17515) 15240
1730	6065 15735 (Mo-Sa)
1730	13855 15735 (Su)
1930	6065
2030	6065 13830 (Sa/Su)
2130	6065 9430

(27-Feb/Volk-FRG/EDXP/Padula-AUS)

SWITZERLAND Swiss Radio International, Z-98		2000-2030	English	9840/D 9885/GUY 9905/SUI 11725/D
Schedule				
0030-0100	German	9885/SUI 9905/GUF	2000-2030	German
0100-0130	English	9885/SUI 9905/GUF	2030-2100	French
0130-0200	Spanish	9885/SUI 9905/GUF	2030-2100	German
0200-0230	French	9885/SUI 9905/GUF		
0230-0300	Spanish	9885/SUI 9905/GUF	2100-2130	English
0300-0330	Italian	9885/SUI 9905/GUF	2100-2130	French
0330-0400	German	9885/SUI 9905/GUF		
0400-0430	English	5840/D 6165/SUI 9885/SUI 9905/GUF	2100-2130	Spanish
			2130-2200	Italian
0430-0500	English	9885/SUI 9905/GUF	2130-2200	Portuguese
0430-0500	French	5840/D 6165/SUI	2200-2230	French
0500-0515	German	5840/D 6165/SUI	2230-2300	German
0500-0515	French	9885/SUI	2300-2330	Italian
0515-0530	French	5840/D 6165/SUI 9885/SUI	2330-2400	Spanish
0530-0545	Italian	9885/SUI		
0530-0600	English	5840/D 6165/SUI	Transmitters:	
0600-0630	Italian	5840/D 6165/SUI	D:Jülich	
0600-0630	French	9885/D 11860/D 13635/SUI	CHN: Beijing	
0630-0700	French	6165/SUI 9885/D 11860/D 13635/SUI	GUF: Montsinery	
			SNG: Singapore	
0700-1000	French	6165/SUI	SUI: Lenk and Sottens (Volk-FRG)	
0700-0730	Italian	9885/D 11860/D 13635/SUI		
0730-0800	English	9885/D 11860/D 13635/SUI		
0800-0815	German	9885/D 11860/D 13635/SUI		
0830-0900	English	9885/GUF 13685/SUI		
0900-0930	Italian	9885/GUF 13685/SUI		
0930-1000	German	9885/GUF 13685/SUI		
1000-1030	English	6165/SUI 9535/D		
1000-1030	French	9885/GUF 13685/SUI		
1030-1100	German	6165/SUI 9535/D		
1100-1130	French	6165/SUI 9535/D		
1100-1200	English	9810/SNG 17515/SUI		
1130-1200	Italian	6165/SUI 9535/D		
1200-1230	English	6165/SUI 9535/D		
1200-1230	German	9810/SNG 17515/SUI		
1230-1300	French	9810/SNG 17515/SUI		
1230-1300	Italian	6165/SUI		
1300-1330	Italian	6165/SUI 9810/SNG 17515/SUI		
1300-1400	English	7230/CHN 7480/CHN		
1330-1500	Italian	6165/SUI		
1400-1430	German	7230/CHN 7480/CHN		
1400-1500	English	9575/SNG 15265/SUI		
1430-1445	Italian	7230/CHN 7480/CHN		
1500-1530	German	6165/SUI 9575/SNG 15265/SUI		
1530-1600	French	9575/SNG 15265/SUI		
1530-1800	German	6165/SUI		
1600-1615	English	9575/SNG 15265/SUI		
1630-1700	Italian	9905/SUI 12075/D 13635/D		
1700-1800	Arabic	9905/SUI 12075/D 13635/D		
1730-1800	German	9885/D		
1800-1815	French	9905/SUI 12075/D 13635/D		
1800-1830	Italian	6165/SUI 9885/D		
1830-1900	French	6165/SUI 9885/D		
1830-1900	Italian	9840/D 9905/SUI 11725/D		
1900-1930	English	6165/SUI 9885/D		
1900-2000	Arabic	9840/D 9905/SUI 11725/D		
1930-1945	Rumansch	6165/SUI		

TURKEY V of Turkey noted on new 7185 at 0017 in Tu //9445 5980 9460, seems to replace now-vacant 7280. So much for any further loggings of Myanmar, this freq./time. (3-Mar/Quagliere-NY)

TURKMENISTAN If anyone is interested in verifying Turkmenistan, this might be a good time. I rcvd a form letter with stn seal in 56 days for an audio cassette and \$1. BADXer John Fisher also rcvd his on the same day. Their address is: R. Turkmenistan, Natl TV & Radio B/Cing Co., Mollanepes St. 3, Ashgabat 744000, Turkmenistan. V/S: G. Khanmamedov, Chief of Technical Dept. (1-Mar/Comeau-MA/NU/EDXP/Padula-AUS)

URUGUAY 9620 CXA6, SODRE is inactive due to txer's transformer failure at exciter stage. There are not specific spare parts available for replacing it, so it should be rewinded. (Escobar-SODRE/Nigro-URU)

6140/9595/11735 **R. Montecarlo/Oriental's SW** txer is currently inoperative, I guess for the next couple of weeks to come. They are moving it inside the xter site, in order to make room for their new 50 KW MW txer. (16-Mar/Sr. Alexi Haysaniuk, strn's techn. mgr/Nigro-URU)

The "Direccion Nacional de Comunicaciones" (the Uruguayan state radiocommunications authority) has just released a public convocation for the exploitation of two SW frequencies in the 49 mb: 6055 and 6155, both with 2 KW maximum authorized power, for omnidirectional pattern antenna types and a regional zone of coverage to serve. 6055 hasn't been assigned earlier and I don't know the outlet's callsign, but 6115 has been CXA13 (which was operated by CX16 Radio Carve, Montevideo -MW 850-several years ago). Also, nearly forty frequen-

cies in the FM BC band all over the country are included in this notice. The interested persons will have a 60 laborable day time limit to forward their respective applications a period that starts running after the last date of publication of this notice in the "Diario Oficial" (the State Bulletin). (9-Mar/Ni-gro-URU)

USA Christian Science Publishing Society (which replaced *Monitor Radio International* in June 1997) broadcasts religious programs produced by the Christian Science Publishing Society: The Christian Science Sentinel—Radio Edition, The Herald of Christian Science and The Sunday Church Service. The station uses the following transmitters:

- two 500-kW transmitters at Cypress Creek, South Carolina (callsign **WSHB**);
- two 100-kW transmitters at Saipan in the Mariana Islands (callsign **KHBI**) [see **NORTHERN MARIANAS ISLANDS-AQ**].

WSHB

0000-0100	Multilingual	9430 7535
0100-0200	Multilingual	9430 7535
0200-0300	Multilingual	7535 5850
0300-0400	Multilingual	5850
0400-0500	Multilingual	9840 7535
0500-0600	Multilingual	9835 7535
0600-0700	Multilingual	7535
0700-0800	Multilingual	7535
0800-0900	Multilingual	9845 7535
0900-1000	Multilingual	7535 7395
1000-1100	Multilingual	7395 6095
1100-1200	Multilingual	7395 6095
1200-1300	Multilingual	9455 6095
1300-1400	Multilingual	9455 9430
1600-1700	Multilingual	18930
1700-1800	Multilingual	18930
1800-1900	Multilingual	18930 15665
1900-2000	Multilingual	17510 15665
2000-2100	Multilingual	13770 11550
2100-2200	Multilingual	13770 11550
2200-2300	Multilingual	13770 7510
2300-2400	Multilingual	13770 7510

(BBCM)

The FCC has issued call letters for Allan Weiner's new SW stn in Maine: **WBCQ**. When the stn goes on the air in late summer, Allan will be offering discount rates for free radio b/cers who would like to gain access to the airwaves via WBCQ's 50 kw txer. For more info, E-mail Allan at AllanHW@cybertours.com (McCormick/rec.radio.shortwave/NU/EDXP/Padula-AUS)

KNLS from Mar-29 to Sep 28:

0800	English	9615
0900	Russian	9615
1000	Mandarin	9615
1100	Russian	6150
1200	Mandarin	7365
1300	English	7365

1400	Mandarin	9615
1500	Mandarin	7355
1600	Mandarin	7355
1700	Russian	9615

(5-Mar/KNLS website/Kubiak/EDXP/Padula-AUS)

VIETNAM Voice of Vietnam Network 1

0000-1600	Vietnamese	11540v 10060v 5925v
1600-1700	Vietnamese	10060v 5925v Fr
2200-2400	Vietnamese	10060v 5925v

Voice of Vietnam Network 2

0000-1600	Vietnamese	12035 4960
2200-2400	Vietnamese	12035 4960

Minority Language Service

0500-0530	Hmong	6165
1200-1230	Hmong	6165
1300-1345	Hmong	6165
2200-2230	Hmong	6165

Voice of Vietnam External services:

0000-0030	Cambodian	9730v 7285
0000-0100	Vietnamese	15010-alt 12020-alt 9840
0030-0100	Laotian	9730v 7285
0100-0130	English	5940-r
0130-0200	Vietnamese	5940-r
0200-0230	Laotian	5940-r
0230-0300	English	5940-r
0300-0330	Spanish	5905-r
0330-0400	English	5905-r
0830-0930	Chinese	15010-alt 12020-alt 9840
0930-1000	Indonesian	15010-alt 12020-alt 9840
1000-1030	English	15010-alt 12020-alt 9840
1030-1100	Indonesian	15010-alt 12020-alt 9840
1100-1130	English	9730v 7285
1100-1130	Spanish	15010-alt 12020-alt 9840
1130-1200	Russian	15010-alt 12020-alt 9840
1130-1200	Thai	9730v 7285
1200-1230	Cambodian	9730v 7285
1200-1230	Chinese	12035 10010
1200-1230	Japanese	15010-alt 12020-alt 9840
1230-1300	Cantonese	12035 10010
1230-1300	English	15010-alt 12020-alt 9840
1230-1300	Laotian	9730v 7285
1300-1330	Chinese	12035 10010
1300-1330	French	15010-alt 12020-alt 9840
1300-1330	Russian	9730v 7285
1330-1400	Cambodian	9730 7285
1330-1400	Cantonese	12035 10010
1330-1400	English	15010-alt 12020-alt 9840
1400-1430	Japanese	15010-alt 12020-alt 9840
1400-1430	Laotian	9730v 7285
1400-1430	Thai	12035 10010
1430-1500	Cantonese	9730v 7285
1430-1500	Indonesian	15010-alt 12020-alt 9840
1430-1500	Russian	12035 10010
1500-1530	Chinese	9730v 7285
1500-1530	Thai	15010-alt 12020-alt 9840
1530-1600	Cantonese	15010-alt 12020-alt 9840
1600-1630	English	15010-alt 12020-alt 9840
1630-1700	Russian	15010-alt 12020-alt 9840

1700-1800 Vietnamese 15010-alt 12020-alt 9840
 1800-1830 English 15010-alt 12020-alt 9840
 7440-r
 1830-1900 French 15010-alt 12020-alt 9840
 1830-1930 Vietnamese 7440-r
 1900-1930 English 15010-alt 12020-alt 9840
 1930-2000 French 15010-alt 12020-alt 9840
 7440-r
 2000-2030 Spanish 15010-alt 12020-alt 9840
 2030-2100 English 15010-alt 12020-alt 9840
 2100-2130 French 15010-alt 12020-alt 9840
 2130-2200 Japanese 15010-alt 12020-alt 9840
 2200-2230 Chinese 15010-alt 12020-alt 9840
 2230-2300 Cantonese 15010-alt 12020-alt 9840
 2300-2330 Thai 15010-alt 12020-alt 9840
 2330-2400 English 15010-alt 12020-alt 9840

r-via Russia
 (BBCM)

ZAMBIA 6065 *Christian Voice*, Lusaka, 0440-0501, Typical morning program of quasi pop-oriented vocals, mixing with co-channel WYFR to its 0445* and DW to its 0450*, then in the clear but weakening and subject to severe adjacent channel slop. This was actually much easier to hear thru CHU on ex-3330. (3-Mar/Clark-ONT/DSWCI DX Window/Veldhuis-NL)

ZIMBABWE 4828 *ZBC R. 4* Another long-missing outlet observed since March 15 with vernacular chatter mentioning Zimbabwe, also highlife-flavor pop song. Dramatic reading of some kind from 2155, then anthem at 2159 and off. (15-Mar/Hill-MA)

5012 *ZBC*, Harare, 0415-0431, News by woman in Shona or other local language to 0420, drums, man in English with ID for Radio 2 and ZBC, TC for 20 minutes past six, then back to language program with echo announcements and Radio 2 promo, followed by Afro rhythms. Strong signal on this daytime channel at least on this date instead of 3306. Radio 4 was good on usual 3396. Radio 2 was back on 3306 at 0340 check on March 5. (3-Mar/Clark-ONT/DSWCI DX Window/Veldhuis-NL)

EVERYWHERE The 6200-6270 extended band: Eff. Mar-29, planned operations are:

6200 Dublin, Ireland 10 kW 24-hrs
 6200 Okhost, Russia 20 kW 2000-1500
 6200 Horby, Sweden 500 kW 0230-0430
 6200 Horby, Sweden 350 kW 1645-1700
 6200 Litomysl, Czech 100 kW 0100-0230
 Rep
 6210 Cerrick, Albania 100 kW 1630-1645
 6210 Tbilisi, Georgia 100 kW 1730-1830 (WRN)
 6220 Cerrick, Albania 100 kW 0130-0200
 6230 Almaty, 100 kW 0000-0700
 Kazakhstan
 6235 Kavala, Greece 250 kW 1500-1700
 6235 Thessaloniki, 35 kW 2000-0000
 Greece

6240 Cerrick, Albania 100 kW 1800-1815
 6245 Avlis, Greece 100 kW 0000-0400
 6245 Thessaloniki, 35 kW 1400-2300
 Greece
 6260 Avlis, Greece 100 kW 0000-0400
 6260 Thessaloniki, 35 kW 0600-0800
 Greece
 6260 Kavala, Greece 250 kW 1100-1300
 6260 Avlis, Greece 100 kW 1800-0000
 6260 Warsaw, Poland 100 kW 1630-1800
 6260 Tashkent, 50 kW 0100-2000
 Uzbekistan
 6270 Armavir, Russia 20 kW 24 hrs

(HFCC/Bob Padula/EDXP/Padula-AUS)

UNIDENTIFIED 6665L UNID w/Mideast (Turkish?) music noted 0335-0350*, intermittently off, no announcements, good signal on this aeronautical frequency. (23-Mar/Quaglieri-NY)

7193.0 UNID, 1426, Maybe north-east African according the best antenna beam. (3-Mar/Timofeyev-RUS/DSWCI DX Window/Veldhuis-NL)

15168.20 UNID 1022 female and male speakers, unidentified language but sounds like Arabic, Farsi or Urdu, some music fragments. Distorted audio, very weak but improving slightly over time. May have been drifted Algiers. (24-Feb/Schaay-NL)

On 15283.9v, unstable carrier with hum, at 1712 muezzin; suspect Libya? (6-Mar/Hauser-OK)

IDENTIFIED Last month's 4793.2v UNID...see this month's **GHANA**.

Last month's 6012.7v UNID (recently 6012.5) is *Tele R. Stereo* reactive from Italy. (Hill-MA)

Last month's 15535.6 @1217 UNID was Tunisia. (Hill-MA)

ALL HAIL PRINCE LAZARUS Interesting story on David Bresnahan show "Talk USA" 0500 UT Feb 26 on WHRI 5770. The guest was Prince Lazarus of New Utopia, a new country which will soon appear in the Caribbean. Construction will begin in April on a group of submerged islands halfway between Cayman and Belize. (I assume he was referring to the Rosario Reefs north of Swan Island). A complete city will be built on concrete pilings, including an airport, apartments, condos, shopping malls, hotels and a medical center. The Principality of New Utopia will be primarily a tax haven, banking and medical centre, and has already applied for UN membership. Anyone can become a citizen by donating \$200 to Prince Lazarus, although the local population will be limited. No, this is not an April fool's joke. To contact the Prince, or to apply for citizenship, a phone number in Oklahoma was given. (I wonder if that new radio ship is planning to broadcast from New Utopia). (2-Mar/Behr-ONT/WORLD OF RADIO/Hauser-OK)



Pirate Radio Report

Chris Lobdell

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Hello and welcome to the April edition of THE PIRATE RADIO REPORT.

The 1998 Winterfest that was held in Kulpsville, PA is now history. I'd like to say hi to all those pirates that were there, such as *ACTION RADIO*, *RADIO NONSENSE*, *WREC*, *RADIO USA*, *WPN*, *RADIO AIRPLANE*, *RADIO DOOMSDAY*, *CARIBBEAN SOUND SYSTEM*, *THE VOICE OF OZ*, *NAPRS*, *PARTIAL INDIA RADIO*, *PIRATE RADIO BOSTON*, *ANT-EATER RADIO* *THE VOICE OF JULIET* and *KNBS* just to name a few! Besides the pirates, there were lots of pirate DXers in attendance. The highlight was the pirate radio forum hosted by George Zeller and Andrew Yoder. It was well attended as usual. Besides shortwave pirates, the explosion in the growth of FM microbroadcasters was discussed in some detail. Anyway, if you didn't make this one, plan for 1999!

MV Electra Gone?

On March 21st, I took my usual drive down to Chelsea, MA to see the MV Electra. To my surprise it was missing from its usual berth at the Bang Shipyard in East Boston. I thought it might have left for warmer waters, but author Anita McCormick tells me that it has not left Boston yet, but will be leaving for the Caribbean soon. Word has it that Dr. Scott Becker is still somewhere in the West Indies setting up a country where the ship can anchor near. We at the PIRATE RADIO REPORT will let you know more as soon as we find out about it.

Loggings

Many thanks to Dave Krause, Bill Wilkins, Bob Hill and Terry Wolf for these. Keep 'em coming, guys!

JOLLYROGER RADIO, a well known Irish shortwave pirate, was noted at 2304 UTC on February 13th on the unusual frequency of 6825.1 kHz via NA relay. Programming featured blues music. [Bob Hill-MA]

RADIO ECLIPSE, the "Station That Steve Mann Built", was noted at 2014 UTC on February 27th. They were testing with music and apologizing for the slow QSLs. [Terry Wolf]

ROCK-IT-RADIO, a station famous for playing oldies from the 1950's, was noted on February 27th at 2347 sign on playing Christmas pop music. They use a maildrop of Box 5617, Ventura, CA 93025 [Bill Wilkins-MO]

THE VOICE OF SOUTH DUBLIN, an Irish pirate was relayed in North America and noted on March 1st at 2320 UTC on 6955 kHz with info on Dublin and Ireland along with some Irish music. It seemed to be a relay by the VOICE OF SHORTWAVE RADIO. [Krause-OH]

WRYT, The station run by The Dirty White Boy, who was thought to have been killed in an auto accident, but survived was noted on March 1st at 1840 UTC with rock mx, IDs and a comedy song about fast food. The usual frequency. [Krause-OH]

WGTG Uses 6955 kHz

Religious broadcaster WGTG has been noted using this frequency early afternoons, so if you hear a religious broadcaster here, it's them. *Radio Eclipse* is already doing a parody version of WGTG too, "With Glory To Gumby", etc.!

Happy Pirate DX!

—Chris



QSL Report

Sam Barto
47 Prospect Place
Bristol, CT 06010



ST. FRANCIS RAVENEL, FLORIDA VLT IS
PO BOX 143, VALLETTA CAMBUI - MALIA
TEL: (1-352) 2400021, 240050
FAX: (1-352) 241501
E MAIL: vorerav@okd.com.vol.net.net



Dear Listener,

Thank you for your reception report of our transmission

on 11/15/85 01 8.5

at 0500 ~ 0530 UTC

Agency 11510 Mlx

We are very glad to verify how well your report

Mr. Masao Hosoya
1-1-19, Sengen-cho
Higashi-kurume-shi
Tokyo, 203-0012
JAPAN

schedule in 9 wks. for \$1.00. (Raymond).

ASIATIC RUSSIA: Voice of Russia 9580 via **Retropavlovsk-Kamtchatsky** f/d cd. in 34 ds. for an E-mail rpt. (Neal-TX).

BELARUS: Radio Minsk 7210 schedule, station sticker and calendar in 2 mo. but no QSL...very disappointed especially after seeing the big envelope with all the cool stamps on it. (Tilbury).

BOLIVIA: Radio A.N.D.E.S. 4777 form ltr. w/ dates filled in. Also rcvd second OSL in same rpt. (Field-MI).

BRASIL: Radio Difusora de Londrina 4815 p/d large cd. of "Air View" in 70 ds. for a PT rpt. and \$1.00. (Flynn-OR). **Radio Anhanquera** 11830 f/d ltr. in EG in 71 ds. for a PT rpt. and \$1.00. v/s Eng. Domingos Vicente Tinoco, Technical Manager. This took 3 tries. (Flynn).

CANADA (Pirate): Arqosy Magazine 6956 f/d copy of the Jan. 14th cover in 4 mo. (Field).

CHINA, PEOPLES REP. OF: China Radio International 9690 f/d cd. in 1 mo. w/ tiger paper cut. (Levison-PA). 9785 via **Xian** f/d cd. in 35

ds. for an E-mail rpt. (Neal-TX). 7405 f/d cd. in 35 ds. w/ * schedule and sticker. (Hosoya-JPN). **Wenzhou PBS** 2415 p/d large "Dove of Peace" cd. from **CRI** in 32 ds. (Flynn-OR).

CLANDESTINE (Eritrea): Voice of Democratic Eritrea 9230 f/d prepared * cd. in 24 ds. for \$1.00. v/s Dr. Beyene Kidone. (Kusalik).

COSTA RICA: Adventist World Radio 9725 and 5030 f/d cd. in 5 wks. v/s Adrian Peterson (Field-MI).



Radio Veritas Asia
PILIPINO SERVICE

P.O. Box 2642
Quezon City - 1166
Philippines

Thank you for your reception report. We are pleased to confirm your report to a transmission of Trans World Radio Swaziland on a frequency of 5.055 KHz at a time of 0356-0430 UTC on the 7 of September 1996.

STAMP

Address
Richard D'Angelo
.....
.....
.....

Picture left: Mrs. J. Maurovoub
Trans World Radio's transmitter site located 45km outside of Manzini, Swaziland.

Picture Right:
Trans World Radio's new offices and studios in Manzini, Swaziland.

ECUADOR: HCJB 9415 f/d "Bird" cd. in 40 ds for a JP rpt. Also rcvd. newsltr. (Hosoya-JPN).

EUROPEAN RUSSIA: Radio Maryia 7400 via Samarra f/d paper cd. w/ stickers, book-marks and schedule in 6 wks. for \$2.00 (Myers-VA).

FERNANDO POO: Radio Nacional Malabo 6250 f/d cd. w/ very friendly note on the back. v/s Manuel Chema Lobede. All in 73 ds. for a cd. in 9 wks. for a SP rpt. and \$1.00.

The v/s (above) said that if I sent along \$10.00, he will send me some stamps and objects from his country! (Maroti-NY).

GEORGIA: Voice of Hope 12120 via Dusheti 2 f/d prepared cds. both signed and stamped w/ a f/d station QSL cd. in 55 ds. for \$1.00. (Kusalik). 6290 f/d "Mosaic" cd. in 3 wks. for \$1.00. (Raymond).

GERMANY: Brother Stairs 5840 and 5880 via Julich f/d cd. w/ personal ltr * in 2 wks. (Field-MI). **Radio Liberty** 7245 via Lampertheim f/d ltr. in 1

NOTES: Don Hosmer is baaaaack! He said that he just got his first QSL in about 5 years. He hopes many more are on the way. Last I heard Don, you had purchased a new home in MI with lots of property for antennas. Am I correct?.. Sam. **John Squilletta** QSLed Sabah as a new country for him. Thanks to the phone call from George Maroti for informing me that they were on. **Ed Tilbury** checks in from Alaska says that Winter DXing from his QTH is a thing of the past. I think I've got polar blanking or something like that. It seems to start in November and cease around the end of February. In the good old days you could count on mid-day fantastic reception from all points. Radio Elizabethville from Katanga comes to mind. Things better get better or I,m moving!..I seem to remember FZI Radio Brazzaville on 49 meters with mid-day reception...Sam.



mo. for SASE. v/s Dave Walcutt, Broadcast Operations Liason. (Dybka). **Adventist World Radio** 5890 via Julich f/d cd. in 5 wks. (Field-MI). **Bayerischer Rundfunk** 6085 p/d "Mountain Top Antenna" cd. in 3 wks. for 2 IRCs. (Tilbury).

GUAM: Adventist World Radio 9370, 11980 and 9650 f/d cd. in 5 wks. v/s Adrian Peterson. (Field) 9650 "3D Flower" cd. in 46 ds. w/ rpt. forms & schedule. (Hosoya-JPN). **KTWR** 9465 "20th Anniversary" cd. in 21 ds. for a JP rpt. (Hosoya).

GUATEMALA: Radio Buenas Nuevas 4800 f/d info. sheet w/ pennant in 2 mo. for a SP rpt. (Field MI).

HONDURAS: HRPC 3250 f/d cd w/ schedule in 6 wks. for \$1.00. v/s Chris Fleck, Director. (Myers) **HRMI Radio Misiones** 5890 a large f/d cd.

This QSL card verifies that you have been listening to KTWR.

DATE 98.1.24

TIME 11:59 - 12:30 UTC

FREQUENCY 9465 kHz
9465 (20th Anniversary)

P.O. BOX CC, AGANA, GUAM 96910
KTWR uses 4 Hertz SW-100 100KW
Transmitters and 5 TCI 4-band Curtain Antennas 東久留米市浅間町1-1-19

via Hosoya

Thank you for your reception report. We hope you continue listening to our programs, and we look forward to hearing from you again.
Trans World Radio *Tilbury*

細谷 正夫様
JAPAN
In the beginning God created the heaven and the earth (Genesis 1:1)

JILL DYBKA
U. S. A.

CONFIRMAMOS SU CORRECTO INFORME DE RECEPCION
FRECUENCIA: 15345 khz.-
FECHA : 2 Abril 1995.-
HORA UTC : 0006-0102 hs.-

CON CORDIALES 73's,

MARCELA G. R. CAMPOS
DIRECTORA
BAE RadioFuerza Argentina al Exterior

Gabriel Iván Barrera
p.LRA 1

w/ personalized ltr. and brochures was rcvd. from their US office in 17 ds. for SASE (not used). v/s Gus Roa.(Flynn-OR).

ITALY: Adventist World Radio 7240 via **Flori** f/d cd. w/ personal ltr. in 1 mo. QSL was sent from Costa Rica.(Field-MI).

JAVA: Voice of Indonesia 9525 cd. in 40 ds. for a JP rpt.(Hosoya-JPN).

KAZAKHSTAN: Radio Nederland 7305 f/d "The Sixties" cd. in 60 ds w/ sticker for an E-mail rpt.

KOREA, PEOPLES DEMOCRATIC REP: Radio Pyongyang 13760 f/d (Neal-TX). cd. in 75 ds. for 3 IRCs. My rpt. was sent via Willi Passman in Germany. C/V #100. (Neal-TX).

MALAGASY REP: Radio Nederland 11655 f/d cd. in 54 ds.(Humenyk-ONT).

MONGOLIA: Voice of Mongolia 12085 f/d "Country Scene" cd. in 60 ds. for a JP rpt. (Hosoya-JPN).

MYANMAR: Defence Forces Broadcasting Unit 6570 via **Taunggyi** f/d prepared

SPECIAL OFFER: Our customers have spoken. The enclosure of used postage stamps as a form of gift with your reception reports seems to be working. For 1998 we are now offering the following:

\$10.00 will bring you 1300 foreign stamps;
\$15.00 will net you a total of 2300 stamps. With either order you will receive an additional

600 stamps (US). That's 1900 total for only \$10.00 or 2900 for only \$15.00. You will not be disappointed. Please try to include an extra \$3.00 for overnight USPO delivery. Mail your order to your NASWA QSL Editor.



cd., signed and stamped, in 33 ds. via the Embassy. v/s Knin Maung * Aye, Minister-Counsellor. (Kusalik). **Myawadi Radio Station** 5973 via **Myawddy** same as above from the Embassy. (Kusalik)...Great!...Sam.

NEW GUINEA: Radio East Sepik 3335 p/d personal ltr. in 6 mo. for 2 IRCs v/s Elias Albert.(Tilbury). **Radio Sandaun** 3205 p/d personal ltr. in 1 mo. for \$1.00. v/s Pala Ottawa. (Tilbury);

NORWAY: Radio Denmark 9960 and 7540 via **Kvitsoy** p/d B&W "Logo" cd. in 11 ds. w/ ltr. and schedule.(Humenyk-ONT).

PHILIPPINES: Voice of America 9760 "Gateway Arch" cd. w/ program guide and sticker in 23 ds.(Hosoya-JPN).

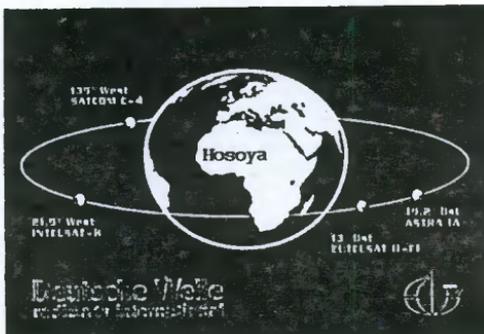
RIO MUNI: Radio Nacional f/d blue cd. in 1 mo. for a rpt. to the CA addr.(Dybka-TN).

RUSSIA: Voice of Russia 9875 f/d cd. in 44 ds.(Hosoya).

ROMANIA: Radio Moldova International 7125 via **Galbeni** f/d cd. w/ site in 60 ds. for \$2.00. This was via the Rumen Pankov QSL Service in Bulgaria.(Rigas-IL).

SABAH: Radio TV Malaysia 4970 via **Kota Kinabalu** f/d prepared cd. in 49 ds. for SASE(used). v/s Mrs. Anglick Saguman.(Sgrulletta-NY).

SAO TOME: VOA 4960 f/d ltr. in 70 ds.v/s Dale McMindes,



KIRIBATI

QSL CARD

Thatch Making — made from pandanus leaves soaked in sea water
seen up side by side. Photo: Fr. Barnold

Dear

This is to verify your reception report of
Radio Kiribati (Station TJK1) from: CG4R.....GNT
until 0710.....GNT, on 9 March 1972
on our regular frequency 14.917.7 KHz

Date: 9/4/92

T. Kucak
Jr. Engineer-in-Charge
Radio Kiribati



*Jerry Klinik
43 Klein Road
West Seneca, N.Y. 14224
United States of America*

S92DM, This was
after a f/up rpt
over 70 ds. (Kus-
alik-ALB).
SINGAPORE: BBC 9740
f/d cd. w/ site
in 11 wks. for
\$1.00. (Myers).
SLOVAKIA: Radio
Slovakia Inter-
national 7300
f/d cd. w/ sked.
and sticker in
1 mo. They sent
me a beautiful
tape of local
folk music. They

must have a very healthy budget. (Tilbury). **Adventist World Radio**
9465 f/d cd. in 2 mo. for 1 IRC. (Tilbury). 11600 and 6055 f/d cd.
in 5 wks. (Field-MI).

SOUTH AFRICA: Radio Sondergrense 3320 f/d "SENTECH" cd. in 26 ds. for
1 IRC. (Neal-TX).

SPAIN: Radio Liberty 9520 via Playa de Palms f/d ltr. in 1 mo. for
SASE(used). v/s Dave Walcutt. (Dybka). **China Radio International**
9690 via **Noblejas** p/d cd. in 16 ds. for an E-mail rpt. (Neal-TX).

MOROCCO(Spanish): Radio Liberty 6140 via Briech f/d ltr. in 1 mo. for
SASE(used). (Dybka-TN).

SWAZILAND: Trans World Radio 9500 f/d cd. in 3 mo. for \$1.00. (Dybka).
f/d cd. in 125 ds. for 1 IRC. (Neal-TX).

SWITZERLAND: Swiss Radio International 7480 f/d "European Headquarters
of UN" cd. in 33 ds. (Hosoya-JPN).

TAIWAN: Radio Taipei International 11745 f/d cd. w/ memorial station
pennant and newsltr. in 51 ds. (Hosoya-JPN).

TURKEY: Voice of Turkey 7300 f/d cd. w/ schedule and 2 stickers in 3
mo. (Field-MI).

UKRAINE: Radio Belarus 9560 via Kiev f/d cd. w/ schedule in 6 mo. for
\$1.00. (Myers-VA).

URUGUAY: Emisora Ciudad de Montevideo 9650 postcard w/ f/d verie state-
ment and hand stamped w/ station seal in 1 mo. for a SP rpt., tape
and \$1.00. v/s Aramazd Yismeyian, Director General. This one is a

United States of America
Army Broadcasting Service
Verification Certificate

This is to certify Christopher E. Loddell heard and reported reception of the U. S. government test broadcast facility;
Tactical Call Sign(s): KBo-Tango-Romeo-Kilo, KTRK, K-Truck (47 USC Section 305(c)); International Registry Call Letter: AABS,
abbreviated "ABS" (ARR Art. 6 Para 342); Transmitting Frequency: 1.670 MHz; Transmitter Power Output: 5.000 Watts (.005 MW).

Classification:
Emission:
Coordination:

Temporary Band:
20KRA3E (47 CFR Section 2.201 & 2.202)
N 3P 13 2P
W 7P 5P 5P

Period of Operation:
Official Sign-on:
Official Sign-off:

1-6 February 1994
1654 EST (1644 UTC) & Feb 94
1654 EST (1654 UTC) & Feb 94

Transmitting Facility: Main Harris GATES FIVE FA
Alternate-Main: Harris GATES FIVE FA
(Both Frequency Alphas 536-1.785 MHz).
Modulation Monitor: TTT T33755
Frequency Monitor: Behar A304-4
Splitter Monitor: Delta Electronics S34-1
Processing: Orban 91008/1 (with NRSC-1)



Antenna Facility: LRA Technology TUF-3 fixed 130 foot mast
short-fed folded monopole; Frequency range 1.000-1.700
MHz; non-directional radiation pattern; 130 radials of
fixed 150 foot length with 3 degree spacing.

Equipment: Profile Research & Engrs BMX-10
audio control unit; Denon DN 515FA CD player
SONY PCM-7010 DAT recorder; Eventide SD 800
digital delay and H3000B harmonizer; Orban 642B
equalizer and 275A synthesizer; Henry Engrs Dig-
Gardor RAM recorder; ITC Delta III cartridge
player with Delta IV record pump; Tascam 112 MB
III cassette recorder and Tascam 112 MB II stack
decks; REVOX PR39 MB III reel recorder; and
Alpha Compaq 328A audio processing.

Donald S. Browne
MR. DONALD S. BROWNE
Project Manager

Thomas A. Hansen
COLONEL THOMAS A. HANSEN
Director, Army Broadcasting Service

thrill - not only a new **ITU CODE NO. 033. FAX: 801832**

country for me after **GOVERNMENT OF INDIA**
literally decades of **Office of the Superintending Engineer**
trying but w/ a **(High Power Transmitter : All India Radio**
quick, friendly re- **Station Road, Chinnarah-715 102 (W.B.)**
ply! Can't beat
that w/ a stick.



कृपया-पत्र नं ११०१२, ११०१६, ११०१८, / पत्र नं २०११
आपका धन्यवाद
कानून मंत्रालय अधिनियम
उपरोक्त अधिनियम : आकाशवाणी
दिल्ली नगर, न्यू ब्लॉक, ७१२१०२ (ए. ए. ई.)
दिनांक Date 30th May 1997

snw/No. **HPT-CS-C/GNL/97.**

That's why we go
to all that trouble,
isn't it? (Stewart-MO).
Sure is...Sam. f/d
"Montevideo Hill and
Harbour" cd. w/ de-
cal in 2 wks. (Myers).

Dear Shri Mahendra Vaghjee,

Reference your letter dated 5th May 1997 enclosing
therewith reception report of All India Radio Calcutta
transmission radiating on 4820 KHZ on 05.05.97. The report
has been verified and found to be tallying with the sch
transmission.

USA: WJCR 7490 f/d cd.
in 44 ds. v/s Gerri
Powell. (Humenyk-ONT).

Thank you very much for evincing interest in our
transmission. Hope you will continue to listen to programmes
on this channel and send you reception report from time
to time for our appraisal.

USA (Pirates): Radio Azteca
6955 via **WREC** f/d cd. w/
"Penguin" sticker in 2
mo. for ms. (Bueneman-MO).
f/d cd. in 63 ds. for 3
ms. (Neal-TX). **Voice of**
Christmas 6955 f/d "Candy
Cane" XMAS cd. for a please QSL report in ACE. (Kusalik-ALB). **WMFQ**

6955 n/d QSL sheet in 2 mo. for ms. v/s Ms. Vera Fication. (Kusalik).
Radio One 6949.8 f/d ltr. in 2- ds. for ms. (Kusalik). **Big Johnson**
Radio 6955 f/d QSL sheet in 3 mo. for ms. (Dybka-TN). **Rock-it-Radio**
6955 via **WREC** "Rocket-Cat" cd. in 2 wks. for ms. and an address label.
Addr: Box 5617, Ventura, CA 93005. (Dybka-TN). **Argosy**
Magazine (Canada?) 6955 f/d comic sheet in 4 mo. for ms.
ZAMBIA: Zambia National Broadcasting Cor- (Kusalik).
poration 4910 f/d cd. in 9 mo. for 2 IRCs. v/s Luke L.
Chikani. (Tilbury).



We are at the end of another QSL Column. Sometimes we have the QSLs
to fill our allotment and sometimes we fall a bit short. I hope that
everyone at the Winter SWL Fest had a great time. I couldn't attend
because of a family commitment
but I hope to be there next
year. It is a great time to
meet, greet and chat with your
fellow DXers.

Best of QSLing till next time...

Sam

Net Notes

Tom Sundstrom

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

We're back after a month's hiatus due to back surgery and pneumonia.

Grove Enterprises sold its Internet ISP business. As a result there are a host of URL changes. Grove's own URL has changed¹, and the pages hosted gratis by Grove have moved elsewhere due to the new owner's charge for hosting sites. This includes World of Radio², Cumbre DX³ (which now includes audio archives in RealAudio), and the Ontario DX Association⁴.

Speaking of ODXA, their convention is scheduled for October⁵. All are welcome.

The "Internet Guide To International Broadcasters"⁶ and the Nordic Shortwave Center⁷ changed URLs again.

Broadcasting updates. After

several test pages, Iran has its own URL⁸ with RealAudio. Radio Exterior de España adjusted its URL⁹ too. Radio Prague now has a mirror site¹⁰ in North America, including RealAudio. The new Radio Asia Canada International broadcasting in Tamil via CIS transmitters to Sri Lanka now has a Web presence¹¹. Radio Budapest's Web address¹² has changed too.

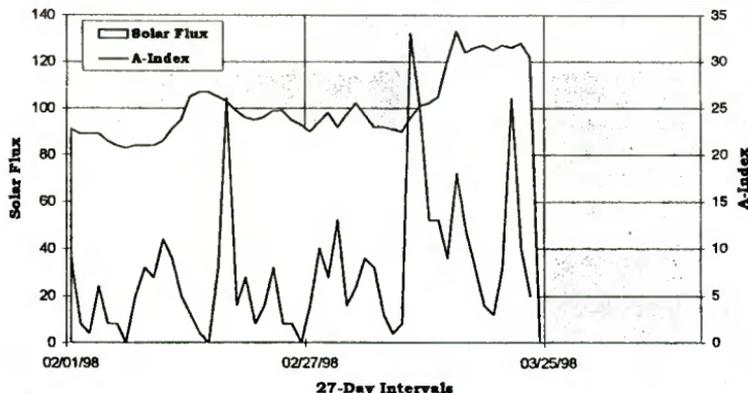
Iraq. Although the immediate threat of a US-led invasion of Iraq has waned, you might want to look at "Showdown with Iraq"¹³. Hans Johnson and the Cumbre editors put this comprehensive resource together.

Kim Elliott and I have assembled a VOA "Communications World" Web page¹⁴ with a schedule and RealAudio links... and there is more to come.

1. www.grove-ent.com/
2. www.angelfire.com/ok/worldofradio/
3. www.ralabs.com/cumbre/
4. www.durhamradio.ca/odxa/
5. www.durhamradio.ca/odxa/fest98.html
6. www.nordicdx.com/iguide/
7. www.nordicdx.com/

8. www.irib.com/
9. www.rtve.es/rne/ree/
10. www.prague.org
11. www.radioasiacanada.ca/
12. home.euroweb.hu/radio/
13. www.ralabs.com/sw/
14. www.trsc.com/cw.html

Solar Flux & A-Index: February-March '98



Contributors' Page

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

DEADLINE FOR CONTRIBUTIONS IS THE 10th OF THE MONTH

The following members contributed loggings:

Brian ALEXANDER, Mechanicsburg, PA	R8B AOR AR-7030 100' LW
Albert ARNOLD, Chesterfield, VA	FRG-7700 ICF-2010 Eavesdropper
Jerry BERG, Lexington, MA	R8 165' LW
Wishnu BRATA, Bandung, INDONESIA	Sony ICF-260S
Erik BUENEMAN, Hazelwood, MO	ATS-803A MFJ-1778 G5RV antenna
Peter COSTELLO, Matawan, NJ	AR3030 DX-390 YB400 70' LW Tun-4A
Nicolas ERAMO, Buenos Aires, ARGENTINA	Sony 2010 ICF-7600 7600G LW's
Ralph FAMULARO, Hyogo-ken, JAPAN	ICF-SW55 ATS-803A R5000 LW
John A. FIGLIOZZI, Bolton, ONTARIO	HF-150 Sony 2010 100' LW's
J. FINDLATER, Los Angeles, CA	FRG-7700 LW
Mark FINE, Remington, VA	
Bob FRASER, Cohasset, MA	Sony ICF-2003 ICF-SW100S 2m LW
Bill FLYNN, Cave Junction, OR	R8 R7A DX-Ultra inverted V
Bob HILL, Littleton, MA	Sony 2010/whip 120' dipole RW Loop
Mark HUMENYK, Weston ONTARIO	Magnavox D-2935 AN-60 DX-SWL Sloper
David KRAUSE, Eastlake, OH	Kenwood R600
Harold LEVISON, Philadelphia, PA	R8 R70 YB400
Jerry LINEBACK, Scranton, KS	R7A beverage antennas
William McGUIRE, Cheverly, MD	DX-380
Gary NEAL, Sugarland, TX	Grundig YB-400
Jay NOVELLO, Wake Forrest, NC	R8A LW's
Takayuki Inoue NOZAKI, Tokyo, JAPAN	
Benton OWSLEY, Ventura CA	NRD-525 100' LW
Denis PASQUALE, New Brighton, PA	Sony 2010 beverage antennas
Sheryl PASZKIEWICZ, Manitowoc, WI	R8 NRD-525 60' LW Eavesdropper
Bob RAYMOND, Nashua, NH	DX-398 20m 5/8 wave vertical
Chuck RIPPEL, Comland, VA	WJ-HF1000A R8B R390A/SE-3 51S-1 LW's
Betsy ROBINSON, Clinton, TN	Sony 2010 Indoor antenna
Giovanni SERRA, Rome, ITALY	NRD-525 AD Sloper
Randy STEWART, Springfield, MO	FRG-100 w/Collins filters
Tom SUNDSTROM, Vincentown, NJ	
John F. WILSON, Hockessin, DE	
Terry WOLF, Bellville, OH	Sony 2010 LW
Robert YAJKO, Leechburg, PA	R8-A 80' LW
Dan ZIOLKOWSKI, Hanburg, NY	R8 Sloper SPS NRF-7 SEM QRM Eliminator

John Figliozzi's logs were made while on a DXpedition to Bolton, Ontario.

The 11th SWL Winterfest is now history. Kudos to organizers Dr. Harold Cones, Kris Field, and Bob Brown for another great 'Fest weekend. I enjoyed meeting many of our monthly contributor's there and am already looking forward to next years gathering. If you have never been to one why not start making plans now to attend the 12th SWL Fest—March 12-14, 1999.



Tropical Band Loggings

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

Well, folks, I changed my mind at the last minute and got a new computer
My E-mail address is spaszkie@msn.com.

2310 AUSTRALIA ABC 3/2 1124 EG tlk, weak (Line-KS) Tnx Jerry!
2325 AUSTRALIA CAAMA R 2/1 1212 mx, EG nx //others (Figl-ON)
3/2 1122 mx, EG tlk, weak (Line-KS)
2485 AUSTRALIA ABC 3/2 1129 EG tlk, weak (Line-KS)
3200 SWAZILAND TWR 3/2 0405 mx, fair (Line-KS)
3220 ECUADOR HCJB 3/2 1120 Andean mx, Quechua tlk (Line-KS)
3234.8 PERU Luz y Sonido 3/2 1116 tlks, fair (Line-KS)
3244.6 BRAZIL R Clube 2/21 2244 ballad, ads, promos (Hill-MA)
3255 S AFRICA BBC Relay 3/2 0400 EG nx, fair (Line-KS)
3258 CUBA R Rebelde spur 2/25 2355 Castro speech (Nove-NC)
3260 NEW GUINEA R Madang 2/27 1150 organ mx, vcls, tlk (Nove-NC)
3280 ECUADOR LV del Napo 2/11 *1030 prayers, song abt Mary, ballads
(Robi-TN) 3/2 1114 nx or cmtry (Line-KS)
3306 ZIMBABWE ZBC 3/2 0400 EG/lang tlk, mx (Line-KS)
3315 INDIA AIR Bhopal 2/17 0113 SC mx, anmts, exc (Ripp-VA)
3316t SIERRA LEONE SLBS 1/30 2220 Western pop mx, poor (Figl-ON)
3320 S AFRICA SABC 2/1 0305 lite class mx (Figl-ON)
3340 PERU R Altura 3/2 1110 tlk, Andean mx (Line-KS)
3340 UGANDA R Uganda 3/2 0358 hilife mx (Line-KS)
3345 MOLUCCAS RRI Ternate 2/27 1159 SCI, nx (Line-KS)
3365 INDIA AIR Delhi pres 2/24 1736 strings, ID (Serr-IT)
3385t SARAWAK Miri 2/27 1155 mx, stronger after 1200 (Line-KS)
3395t SUMATRA RRI Tanjungkarang 1/30 2229 tlk, poor (Figl-ON)
3396 ZIMBABWE ZBC 3/2 0355 lang tlk, mx (Line-KS)
3450 LIBERIA R Veritas 2/14 2245 Afr mx, Ids, dedications, EG
ment Cote d'Ivoire, Burkina Faso, "good night & God bless"
Lord's Prayer (Berg-MA) 2/21 0645 EG nx, ID, Afr mx (Alex-PA)
2/27 2150 nx, Ids, ment Catholic media ctr, mx (Nove-NC)
3925 JAPAN R Tampa 1 3/6 1201 tlk //6055, 9595 (Nove-NC)
3945 JAPAN R Tampa 3/3 1020 rhythm & blues, ads, ID, nx (Buen-MO)
3960 unid 2/11 0758 mx, Andean mx, tlk, guitar solo (Hill-MA)
4409 BOLIVIA R Eco 2/20 2327 ID, rel pgm, hymn (Nove-NC)
4639.7h URUGUAY R Agraria del Uruguay 2/13 0022 ads, ID (Eram-ARG)
4725t MYANMAR Vo Myanmar 2/1 YL in lang, very weak (Figl-ON)
2/28 1301 tlk, poor (Line-KS)
4735 CHINA Xinjiang PBS 2/28 1304 lang tlk, mx (Line-KS)
4753.3 SULAWESI RRI Ujung Pandang 2/28 1305 nx (Line-KS)
4755 BRAZIL R Educ Rural 2/12 0814 Braz mx, rooster (Buen-MO)
4760 ANDAMAN ISL AIR Pt Blair 1/30 1202 SC mx, poor (Figl-ON)
4770 ECUADOR Centinela del Sur 3/2 1142 tlk (Line-KS)
4770 NIGERIA Kaduna 2/28 0646 tlk in lang (Line-KS)
4775 INDIA AIR Imphal 2/28 1306 nx in lang (Line-KS)
4775.2 PERU R Tarma 2/14 0414 mx, ID, TC, poor (Eram-ARG)
4780 ECUADOR R Oriental 3/3 1103 w/sked, mx (Buen-MO) 2/7 0315
folk mx, pops, IKD, on late (Alex-PA)
4783.3 MALI RTM 2/28 0646 tlk in FR (Line-KS)
4790 PERU R Atlantida 3/1 1054 LA mx, 1055 ID (Yajk-PA) Tnx--sp
4792v GHANA GBC spur 2/22 EG & chorus to 2400* (Hill-MA)
4795 BRAZIL Rdf Aquidauana 2/9 0210 class mx, ID, rel (Nove-NC)
4799 GUATEMALA R Buenas Nuevas 2/12 *1200-1230* nx, band mx
exc sig (Robi-TN)
4810 ARMENIA Vo Armenia 2/24 1804 class mx, Freq & ID, IS, 1815 AR
ID (Serr-IT)
4814.2 ECUADOR El Buen Pastor tent, 2/12 0225 lite mx, tlk (Berg-MA)

4815 BURKINA FASO RTV 2/10 2246 FR anmmts, IDs (Raym)
 4815 CHINA CRI 2/28 1312 tlk (Line-KS)
 4830 CHINA Huayi 2/28 1314 CH tlk (Line-KS)
 4850 INDIA AIR Kohima 2/28 1259 SC mx, weak (Line-KS)
 4850 UZBEKISTAN R Tashkent 2/27 0210 lite AR mx, tlk in lang (Ziol)
 4860 INDIA AIR Delhi 2/28 1250 SC mx, tlk in lang (Line-KS)
 4870 BENIN ORTB 2/28 0635 FR tlk (Line-KS)
 4870 ECUADOR LV del Upano 2/13 1110 tlk, EG lessons, (Alex-PA)
 4874.6 unid 2/28 1316 pops, poss IN tlk, TP, nx 1331 (Line-KS)
 4875 BRAZIL Rdf Roraima 2/8 0408* NA, ID (Serr-IT)
 4880 INDIA AIR Lucknow 2/28 1320 mx, tlk (Line-KS)
 4885 BRAZIL R Clube 2/16 2102 tlk, jingles, ID, cmtry (Serr-IT)
 4886.8 PERU R Villa Rica 2/13 1101 tlk, ID, folk mx (Alex-PA)
 4890 PAPUA NBC 2/15 0835 EG mx, IDs (Eram-ARG)
 4895 BRAZIL R Bare 2/15 0054 pops, tlks, low mod (Flynn-OR)
 4895 MALAYSIA tent 2/28 1321 tlk in lang (Line-KS)
 4900 CHINA Vo Strait 2/28 1325 CH tlks (Line-KS)
 4910 INDIA AIR Jaipur 2/27 1311 tlk, mx (Line-KS)
 4914.5 PERU R Cora 2/14 0436 huaynos, ID, tlk abt health care (Eram)
 4915 GHANA.GBC 3/2 2200 EG nx (Raym) 2/21 2325 mellow pops, EG
 anmtds, poor (Ziol-NY) 2/28 0633 lang tlk (Line-KS)
 4919 ECUADOR R Quito 3/2 1152 ads, mx (Line-KS) 3/1 1101 nx (Yajk)
 4920 INDIA AIR Chennai 2/27 1312 tlk, poor (Line-KS)
 4923.2 BOLIVIA R San Miguel 2/14 0030 nx, folk mx (Flynn-OR)
 4925t SUMATRA 1/30 2234 As mx, Koran chants, poor (Figl-ON)
 4927.1 BOLIVIA R San Miguel 2/28 0245 lambada mx, ID (Nove-NC)
 4939.5 VENEZUELA R Amazonas 2/8 0337 ballads, anmmts, Ids, TC (Serr)
 4940 CHINA Vo Strait 2/27 1151 CH mx (Line-KS)
 4940 INDIA AIR Guwahati 2/28 1327 SC mx, tlk (Line-KS)
 4945 BRAZIL Rdf Pocas de Caldas 2/21 2340 mx, tlks, poss ID (Ziol)
 Wish I could hear this--sp
 4945 BRAZIL Emis Rural 2/27 2250 prices of things, IDs (Nove-NC)
 4950 ANGOLA RN 2/12 0100 romantic mx, Ids, Tcs, ment Angola (Berg)
 2/7 1747 live soccer, ID, cmtry (Serr-IT)
 4950 CHINA Vo Pujiang 2/28 1334 CH mx (Line-KS)
 4950 SAO TOME VOA Relay 2/8 2031 EG nx, ID (Serr-IT)
 4955 BRAZIL R Cultura 2/15 0904 mx, ID, tlk (Eram-ARG)
 4959.7 Unid 3/2 1320 tlk in lang (Line-KS)
 4960 CHINA CRI 2/11 2126* tlk, mx, Ids, IS (Serr-IT)
 4975 CHINA Fujian PBS 2/28 1337 CH tlk (Line-KS)
 4975 COLOMBIA Ondas del Orteguaza 2/6 2234 lite mx, ment Palabra de
 Dios, LA Iglesia Pentecostal Unido de Colombia Presente (Berg)
 4976 UGANDA R Uganda 2/8 0420 EG nx abt Uganda (Serr-IT)
 4980 VENEZUELA Ecos del Torbes 2/16 0235 mx, ID (Wolf-OH) 2/14
 0400* mx, ID w/freq, NA, poor (Eram-ARG)
 4991.3 PERU R Ancash 2/14 0359 ads, huaynos, ID, TC, fair (Eram-ARG)
 4995 PERU 3/12 1054 R Andina Ids, tlk (Yajk-PA)
 5000 USA WWV 2/12 2144 noted off, back 2145 (Buen-MO)
 5005 NEPAL RN 2/14 1210 SEAs tlk, flute, ID, poor (Ripp-VA)
 5005 unid 2/28 1339 mx vy poor (Line-KS)
 5009.6t MADAGASCAR RM tlk in lang 2/1 (Figl-ON) 2/27 0259 IS, FR tlk
 (Line-KS)
 5010 INDIA AIR Thiru. 3/2 1319 SC mx (Line-KS)
 5010 unid 2/28 1346 barely audible (Line-KS)
 5020 NIGER LV du Sahel 2/28 2255 pop mx, anmmts (Fine)
 5025 CUBA R Rebelde 2/7 0516 nx, mx, ID (Serr-IT)
 5025 PERU R Quillabamba 2/15 1014 mx pgm, Tcs, ID (Eram-ARG)
 5030 SARAWAK Kuching 2/28 1342 tlk (Line-KS) ID?
 5030.1 COSTA RICA AWR 2/7 0521 sermon, hymn, ID (Serr-IT)
 5040 ECUADOR LV del Upano 2/13 1110 exotic folk mx, ment Ecuador
 (Alex-PA)
 5047 TOGO Lome 2/28 0625 FR tlk (Line-KS) 2/11 2004 chat & mx
 breaks (Serr-IT)
 5050 CHINA Vo Strait 2/28 1343 CH tlk (Line-KS)
 5050 TANZANIA RT 3/2 0156 IS, ID, NA call to prayer (Line-KS)

5055 unid 2/7 1614 nx, Amer pops, 3 TP 1700 (Serr-IT)
 5060 CHINA Xinjiang PBS 2/28 1344 CH mx (Line-KS)
 5060 UZBEKISTAN R Tashkent 1/31 1229 IS, Urdu tlk //9715 (Figl-ON)
 5077 COLOMBIA Caracol 2/14 0445 mx, ID, TC (Eram-ARG)
 5100.1 LIBERIA R Liberia 2/13 2127 strings, drums, vcls, EG ID (Cost)
 5163 CHINA CNR 2nd Pgm tlk, poor (Figl-ON)
 5320 CHINA CNR 1st Pgm tlk, CH class mx (Figl-ON)
 5500 ETHIOPIA Vo Tigre Rev 1/31 0402 tlk in lang (Figl-ON) 3/1
 1516 lang tlks, chorus, poor (Flyn-OR)
 5637.3 PERU R Peru 2/27 0040 comunicados, acoustic guitar, IDs (Nove)
 2/14 0206* folk mx, Ids, NA (Alex-PA)
 5645.8 PERU LV San Antonio 2/26 0300 ment Bambamarca sev times, echo
 sfx, Andean flutes, wild female vcls (Nove-NC)
 5770 NICARAGUA R Miskut 2/15 0201* pops, ballads, tlk (Alex-PA)
 5840 CROATIA CR 2/15 0300 EG nx to 0304 (Krau)
 5845 GREECE Vo Greece 2/14 0346 EG nx (Krau) US relay?--sp
 5880 GERMANY R Vilnius Relay 2/12 0030 EG nx of Lithuanian Trade
 Union, Lithuania & Latvia (Robi-TN) 2/5 0040 EG tlk abt
 Capital Punishment, sked, exc (Levi-PA)

This month loggings from 11 states, 1 province & 2 foreign countries.
 Feel free to send loggings to my E-mail address. Next deadline April 17.

Perhaps Bill can put some ads in the space below.

FOR SALE: EPSCO DC Filtered Power Supply with original manual. Two ranges: 0-8 VDC and 0-16 VDC. Mint, never used. Best offer. Buyer pays shipping. Nick Terrence, 12 Eleanor Place, Huntington, NY 11743. PPhone (516) 951-5477. E-mail <nterrenc@suffolk.lib.ny.us>.

FOR SALE: Drake R8-A with matching external speaker, software and cable for computer controlled tuning and scanning, manual, and box. Price \$800.00. Shipping paid in U.S.. Jerry Sawinski, 920 Meadow Heights, Paden City, WV 26159. E-mail <sawinski@rcvideo.com>.

International Band Loggings

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

- 5905nf UZBEKISTAN R Nederland relay in IN 2200, tlk re Chinese-Indigenous in Indonesia relationship hosted by Murbandono, f (Brata INDONESIA 2/8)
- 5930 SLOVAKIA R Slovakia in EG 0100, IS, ID, nx, fays, trade tlk (McGuire MD 2/4, Levison PA 2/5)
- 5950nf LITHUANIA R Vilnius in EG 0030, nx, cmntry, lcl pops, ID, //5880, ex-5905, not a punch-up error since ancd 5880 & 5950 (Alexander PA 2/27) ED: No longer relayed from Germany?
- 5980 TURKEY V of Turkey in TK 0307, interview by 2 OM's, //9445, 9460, f (Humenyk ONT 2/9)
- 6000 CUBA RHC Havana in EG 0255, lcl mx, QTH, IS, ID, fgy, nx, politics (Serra ITALY, Arnold VA)
- 60125v/nf ITALY Tele Radio Stereo in IT 0929-1031, reactivated stn, //to lcl FM 92.7, mx pgms w/DJ, ID's, fone & FAX #, lcl ads & promos over Pink Panther theme (Serra ITALY 2/24) in IT 2143 playing 70's pop rx, brief ancnmts, speech muffled (Hill MA 2/18 and later) ED: QTH Rome?
- 60646 COLOMBIA Colmundo Bogota in SP 1000, male vcls, TC, ID, f (Ziolkowski NY 2/17) in SP 0539 upbeat pop L Am mx, ancnmts between sels, ID, QRM (Fine VA 2/23)
- 6125 SPAIN RE Espana in EG 2230, relig & govt of Old Spain, ID, g but some QSB (Krause OH 2/8)
- 6160 CANADA CKZN St Johns in EG 1200, nx, sports, interviews, relay of MW (Raymond NH 3/1)
- 6185 CANADA Deut Welle relay Sackville in EG 0310, taped rpt & cmntry, ID, f (Humenyk ONT 2/8)
- 6265 ZAMBIA ZNBC Lusaka in lang 0402, nx w/ments of Zambia & Angola (Paszkievicz WI 2/17)
- 6285nf GEORGIA V of Hope in EG 1900-2103*, ex-6290, contemporary Christian mx, UK addr, ID, syndicated FG relig pgms (Alexander PA 2/21, Novello NC 2/20, Berg MA 2/20)
- 6480 SOUTH KOREA R Korea Int in EG 2100, IS, ID, fgy, nx, jingle, cmntry, mx, f (Serra ITALY 2/12)
- 65358 PERU R Huancabamba in SP 0018*, many ID's, OA folk mx, NA (Alexander PA 2/21) in SP 1210 bouncy accordian-ltd mx, YL vcls, DJ, weak but clear (Novello NC 2/12)
- 66755nf? PERU R Ondas del Rio Maranon in SP 0107*, huaynos, plenty of ID's, comunicados, vocal NA (Alexander PA 2/13, Novello NC 2/13)
- 6750 CHINA CPBS-1 Site? in CH 1132, long discussions by OM and YL, //5320, f (Rippel VA 2/27)
- 6937 CHINA Yunan Peoples BCS Kunming in CH 2321, plaintive chanting (Figliozzi ONT 1/31)
- 7115 BOSNIA R Yugoslavia relay in EG 0100, ID, fgy, political nx (McGuire MD, Pasquale PA 2/27)
- 7130 BOSNIA R Yugoslavia relay in EG 0219, comments by YL, vocal mx, ID, g (Humenyk ONT 2/8)
- 7185nf? TURKEY V of Turkey in TK 0019, lcl mx pgm, strong sig, //9445 (Costello NJ 3/1)
- 7200 GREECE VOA relay Kavieng in EG 0128, history feature re John Adams, IS (Humenyk ONT 2/9)
- 7250 INDIA AIR Panaji Goa in Nepali 0119, IS, ID, chants, nx, vcls (Figliozzi ONT 1/31, Flynn OR 3/4)
- 7255 THAILAND VOA relay Udo Thani in IN 1140, ID, tlk in lang by OM, g (Figliozzi ONT 2/1)
- 7300nf TURKEY V of Turkey in EG 2332, mx, "Turkish Folklore", exc (Krause OH, Arnold VA)
- 7315nf RUSSIA D Welle Novosibirsk relay in GM 1148, GM beer hall mx, //7340, 9480 (Figliozzi 2/1)
- 7415 BOTSWANA VOA relay in EG 0300, "Daybreak Africa", nx, sports rpt (Raymond NH 3/5)
- 7500 ROMANIA R Moldova relay in EG 0340, mostly regional nx, p modulation (McGuire MD 2/17)
- 7770 CHINA CPBS2 Beijing in CH 1129, tlks by OM & YL, lively mx, ad?, f (Ziolkowski NY 2/24)
- 9080 CHINA CNR 1st Pgm Beijing in CH 1440, song "Tennessee Waltz", YL tlk, p (Figliozzi 1/31)
- 9200 SUDAN SNBC Omdurman in EG 1829, choral song, tlk re march of peace in Sudan, AR mx, ID "...you are listening to the Sudan National Broadcasting Corporation", f (Serra ITALY 2/15)
- 9365 ISRAEL Kol Israel in EG 2020, interview with woman archaeologist, g (Fraser MA 2/15)
- 9400nf USA WHRA Greenbush ME in EG 0510, relig mx, xmsn to Afr/ME, fone # (Paszkievicz WI 2/15)
- 9435 ISRAEL Kol Israel in EG 2000, "gas mask distribution centers open 24 hrs a day" (Pasquale 2/21)
- 95249v INDONESIA VOI in IN 1230, tlk re Asian economics over mx, off reg fgy, g (Novello NC 3/8)
- 9535 CHINA China R Int in EG 1517, political & economics tlk, ID, f (Yajko PA 2/27)
- 9535 PORTUGAL D Welle relay in EG 0305, rpt on Sein Fein & NATO (McGuire MD, Humenyk ONT)
- 9540 TURKEY VOT in EG 2000, fgy, "Ex Libris", tlk on TK book publishers (Yajko PA, Fraser MA)
- 9580 AUSTRALIA RA in EG 0950, rpt on tourist vists to wineries, ID, exc (Fraser MA 2/16)
- 9700 NEW ZEALAND RNZI in EG 1159*, controversy on mercury-amalgam tooth fillings and several other features (Fraser MA 2/16, Robinson TN 1/14, Arnold VA 2/5)
- 9700 BULGARIA R Bulgaria Sofia in EG 2014, "Views behind the News", f, //7530 (Yajko PA 2/28)
- 9715 UZBEKISTAN R Tashkent in Urdu 1229, IS, tlk by YL, QRM from CRI, //5060 (Figliozzi ONT)
- 9770 AUSTRALIA RA in EG 1355, mx, Asia/ Pacific nx, "Radio Dimension" (Krause OH, Arnold VA)
- 9800 FRENCH GUIANA R France Int relay in FR 0244, interview, opera mx, exc (Humenyk ONT 2/9)
- 9900 EGYPT R Cairo in EG 2200, nx re Iraq, mx, song from "Boys to Men", g (Robinson TN 2/15)
- 9905nf? RUSSIA R Maryja in PL 0600, relig tlk & mx, V of Russia on with test tones 0815 covering Maryja VOR w/EG pgming from *0830-0959* w/much stronger signal (Alexander PA 2/7)
- 9925 BELGIUM R Vlaanderen in DT 1920, folk mx, cmntry re Boris Yeltsin, f (Humenyk ONT 2/8)
- 9965 ARMENIA V of Armenia in EG 2115, nx re meeting w/pres of Russian Bank, f (Pasquale PA 2/6)
- 10059 VIETNAM V of V National Net 1 Hanoi in VT 2314, tlks by OM & YL, QRM, p (Figliozzi ONT)
- 10260 CHINA CNR 2nd Pgm Beijing in CH 2307, tlks by OM & YL, p, //11630 (Figliozzi ONT 1/31)

11402 ICELAND Rikisutvarpid in IC 1216, tlks, interviews, nx?, //13860 (Raymond NH, Costello NJ)
 11600 SEYCHELLES FEBA in HD 1425, subcont mx, hymn, IS, into EG pgmg 1500, ID (Figliozzi ONT)
 11620 INDIA AIR Bangalore in EG *1800-1904*, HD vcl mx, nx re Sri Lanka's independence, //7410 (Fraser MA, Pasquale PA, Robinson TN) in Urdu 0200, film mx, nx, sitar, drums (Paszkievicz WI)
 11635 PHILIPPINES FEBC Manila in EG 1046, religious pgm, ID 1058, f (Figliozzi ONT 1/31)
 11655 NETHERLANDS RN in EG 1806, features, ID's, sports, fcy, TC, nx (Serra ITALY, Fraser MA)
 11680 BELGIUM R Vlaanderen in EG *1730, nx, cmntry, "Radio World", vg (Alexander PA 2/22)
 117341 TANZANIA RT Zanzibar in SH 1738-2100*, tlks from podium, Muslim chanting, Afro pop mx, TP ID in lang, NA (Flynn OR 2/13, Figliozzi ONT 1/31, Serra ITALY 2/15)
 11785 IRAQ R Iraq Int in EG 0410, nx, cmntry, ID, ME mx, fcy, QTH, tlk, QRM 0457 (Alexander 2/28)
 11785 GERMANY D Welle Weltachtel in PT 2018, polit/econ nx, sports nx, ID, fcy (Serra ITALY 2/16)
 11785 BRAZIL R Guaiba in PT 0200, ID, ads, soccer match, QRM (Eramo ARGEN, Ziolkowski NY)
 11804 BRAZIL R Globo in PT 2015, samba-flavored Brazpop mx, shouted "Globooooo!!", echo effect ID, chats re soccer, ment Brazil v Jamaica (Novello NC 2/15, Serra ITALY 2/15)
 11830 BRAZIL R Anhanguera Goiana in PT 0002, nx, ID "Rede CBN", f (Eramo ARGEN 2/9)
 11890 SRI LANKA R Japan relay in EG 0103, samples of ID's from other international SW broadcasters, nx, fair reception, //11860 Singapore relay poor (Paszkievicz WI 2/17, Ziolkowski NY 2/18)
 11895 FRENCH GUIANA R Japan relay in EG 0513, nx, JP mx, //9660 (Bueneman MO, Humenyk ONT)
 11915 BRAZIL R Gaucha Porto Alegre in PT 0025, ads, soccer game, ID (Eramo ARG, Ziolkowski NY)
 119394 PARAGUAY R Encarnacion in SP 0039, mx pgm, ID "...Voces del Paraguay" (Eramo ARG 2/9)
 11960nf? CHINA CPBS-1 in CH 0110, dramatic play w/Oriental vcls, //12120, choppy signal (Hill MA 2/6)
 11990 KUWAIT R Kuwait in EG 2014, mx sels, vcls, ID'd as outlet for FM 99.7, f (Levison PA 2/15)
 13630 JAPAN R Japan Tokyo in EG 0027, mx, "Japan Diary", f (Krause OH 2/15, Wilson DE 3/9)
 13695nf? THAILAND R Thailand via Udorn in EG 0029, intl nx, feature on architecture, TC (Flynn OR 2/26)
 13765 VATICAN CITY VR in EG 1345, Pope John Paul on ministering to the poor, f-p (Bueneman 3/4)
 15120nf NIGERIA VON Lagos in EG 1620, nx, African drums & chants, ID, reactivated fcy, no sign of VOA Greenville in time slot (Treibel WA 3/18) ED: My last logging on this fcy was in 1984.
 15170 ret FRENCH POLYNESIA RFO Tahiti in FR 0057, generic pop ballads, ad?, ancmts, reactivated xmtr per B Padula, p sig on E Coast (Ziolkowski NY 2/26, Hill MA 2/22) island mx 0445 (Costello NJ)
 15225 GUAM KSDA Adv World R in CH/EG 0000, ID in EG, CH pgming, p (Ziolkowski NY 2/17)
 15395 UNITED ARAB EMIRATES Dubai in AR *1500, trad mx, Qu'ran recitations (Robinson TN 2/16)
 15570 VATICAN STATE VR in EG 1730, carillon bells IS, relig nx, QRM WYFR (Humenyk ONT 2/8)
 15615 ISRAEL Kol Israel in FR *1430-1500*, multi-lang ID, mx of Tel Aviv, mx, g (Robinson TN 2/16)
 15635usb AUSTRALIA Australian Def Forces R in EG 0350, R&R mx, nx (Costello NJ 3/1, Novello NC 3/1)
 15770 INDIA AIR Aligarh in Tamil 1155, ID, tlk, signal fair with flutter, //17860, 13710 (Hill MA 2/13)
 21455 ECUADOR HCJB Quito in EG 1532, relig pgming, //12005, 15115, g (Yajko PA 2/27) 250 watts!
 21470 CYPRUS BBCWS relay in EG 1410, interviews of people in NY, f-g (Bueneman MO 3/4)

CLANDESTINE STATIONS

6205 SOUTH AFRICA R Kudirak Nigeria relay in EG 1900, NA, ID, fcy, rel chorals (Serra ITALY 2/8)
 7530 TAJIKISTAN R Free Asia relay in Tibet 1315, tlk, mx, //9400, 15385 (Ziolkowski NY, Arnold VA)
 79995 ERITREA V of Sudan in AR 1746-1802*, tribal chants, tlks, s/off ancmts (Serra ITALY 2/22)
 11540nf SOUTH AFRICA(?) R Kudirak Nigeria relay(?) in EG 1913, pgm details, brief mx, few nx items, lengthy anti-Abaja cmntry, into lang 1935, off after quick NA 2001, 6205 not hrd (Novello NC 2/23)
 11645nf SOUTH AFRICA(?) R Kudirak Nigeria relay (?) in EG 1900, req for reception rpts on their "new frequency", Indianapolis QTH & Web #'s (Costello NJ 2/28, Krause OH 2/7) ED: Judging from the above reports, these fellows are constantly on the move!
 11980 USA R Free Asia relay Delano CA in EG/KR 2200, station ID in both langs (Arnold VA 2/27)

TENTATIVE, PRESUMED, OR UNKNOWN

62403 PERU(p) R Mi Frontera(p) in SP 0205, non stop tropical mx, weak signal (Novello NC 2/13)
 62908 PAKISTAN(?) xmsn in AR? 1850-1903*, phone calls, ID? ment Pakistan, IS? p (Serra ITALY 2/15)
 63873 VIETNAM(?) Lao Cai(?) in lang 1216-1227*, repetitive accapella solo male singing, tlk by YL, distorted audio made ID of lang difficult, Asian?, may be Lao Cai on the move (Novello NC 2/12)
 6550 VIETNAM(?) Cao Bang(?) in lang 1228 f/o, fairly solid until f/o, mx not SE Asian type, could not determine a // due to fade out of this channel (Rippel VA 2/24)
 7150 CHINA(?) pgm in CH? 1126, signature tune hrd at 1130 mentioning "CBS", g (Figliozzi ONT 2/1)
 10260 CHINA(p) CPBS(p) in lang 0058*, open carrier to 0059, into IS *0100, pips, NA, tlk, listed 15 kw but in the clear (Ziolkowski NY 2/18)
 11750 QATAR(p) QBS(p) in AR 1640-1705*, tlk with short M East mx breaks, pips (Costello NJ 2/28)
 11900 INDIA(p) AIR Bangalore(p) in Tibetan? *0130, spooky sounding chants, f (Ziolkowski NY 2/18)
 15325 BRAZIL(p) R Gazeta(p) in PT 0047, long tlk, vcls, jingle, ID?, promos, p (Ziolkowski NY 2/10)
 155356 SAUDI ARABIA(?) Unident in AR 1217, hrd daily with typical mix of tlk, M East mx, & Qur'an, even had what sounded like sporting even on 2/22, then cut off at 1502. Low audio and echoey signal make readability difficult. Odd fcy & s/off time suggest Saudi Arabia Main AR pgm (Hill MA)
 15820usb ARGENTINA(p) Unident Stn in SP 0020 relaying soccer game, R Rivadavia(?) (Flynn OR 3/5)
 17815 BRAZIL(?) R Cultura(p) in PT? 0120, slow jazz, ancmts, signal quite weak (Ziolkowski NY 2/10)
 17555 HAWAII(p) KWHR Naalehu World Harvest Radio(p) relaying KROS-FM, South Bend, Indiana 0045-0052, promo for "Bethel rock" (for teens?) (Flynn OR 2/8)

Company Store

Kris Field
705 Gregory Drive
Horsham, PA 19044
Internet: kfield@fast.net

All s/h charges for the following items are included unless otherwise noted. Write for shipping and handling costs for orders shipped outside North America.

Publications

<i>Transmitter Documentation Project (TDP)</i> A result of 10 years of research by DXer Ludo Maes, the TDP presents 80 pages of info listing SW broadcast tx'ers worldwide arranged by country with station name, tx'er site, geographical coordinates, call sign and more	\$10.00 US \$13.00 worldwide
<i>Shortwave Listening Guidebook</i> by Harry Helms. Covers equipment, antennas, propagation, station profiles, utilities, clandestines, QSL'ing, etc. 315 pages.	\$19.95 +2.00 s/h
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