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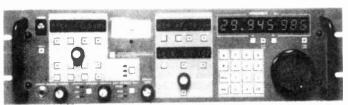
DIE STEM VAN SUID AFRIKA



THE VOICE OF SOUTH AFRICA



HF-1000 LF/MF/HF COMMUNICATIONS RECEIVER



The new Waltime-Johnson HF-1000 is a fully synthesized general coverage receiver that combines analog and digital signal processing (DSP) to achieve a level of performance not previously available to the shortwave listener. Covering 5 kHz to 30 MHz with 1 Hz tuning and display resolution, the HF-1000 now provides capability previously enjoyed only by military and commercial users. Functions such a synchronous AM demodulation, noise blanking, i.F. filtering, AGC, demodulation, Beat Frequency Oscillator and passband funing are accomplished through the use of DSP techniques. Filters with superior amplitude and group delay characteristics are achieved with digital stability and repeatability. An astounding array of 58 i.F. bandwidths are available to allow the operator to optimize ctivity under any signal environment. Filters range from 56 Hz, for monitoring CW with exceptional signal-to-noise ratios, all the way up to 8 kHz for monitoring AM signals with maximum lidelity. Available detection modes are synchronous AM. FM, CW, USB, LSB and ISB. A tunable BFO can be adjusted in 10 Hz steps over a ±8000 Hz range, and passband tuning is available to further enhance the reception of CW signals. Gain control can be accomplished manually or automatically, with fast and slow AGC modes available. The squeich threshold is adjustable from 0 to -135 dBm, or it can be disabled. A noise blanking feature can also be enabled to effectively eliminate the adverse effects of impulse noise. A funable I.F. notch filter allows the operator to reject undesired signals with the IF passband. The HF-1000 has an internal switchable preamplifier and attenuator, and analog S-meter, plus a built-in diagnostic self-test capability

In addition to fixed-frequency tuning, the HF-1000 provides fast, flexible scanning capability. Three scan modes are available: channel scan, F1-F2 scan and F1-F2 scan with lookouts. For all scan modes, the dwell time can be set from .5 to 20 seconds or infinite. In channel scan mode, 100 programmable memory channels are available. Sectors of memory can be specified for individual channel scans, allowing the available memory to be subdivided into multiple search scenarios. The operator can specify certain channels to be stopped without having to detels them from memory. Memory channels can also be single-stepped manually. In both F1-F2 scan modes, the step size is user-selectable from 1 Hz to 25 Hz. Up to 100 independent frequency lockouts can be stored.

The HF-1000 can be operated locally via the front panel or remotely via one of two selectable serial interfaces. Measuring 5.25 x 19 inches, the microprocessorcontrolled front panel proves a user-triently operator interface with dedicated, logically arranged controls and large, easy-to-read LED displays. A majority of the HF-1000 operator-selectable parameters are controllable and accessible via the RS-232 remote interface. A carrier Sense Multiple Access with Collision Detection (CSMA) with a limited instruction set interface may be enabled, in lieu of RS-232 to allow the HF-1000 to be controlled using a command protocol similar to several popular consumer receivers. Selection of the active interface is via an internal switch setting or by front panel entry. All receiver inputs and outputs are available on the rear panel of the unit with the exception of the front-panel mounted headphone jack. The antenna and external reference inputs, as well as the signal monitor and predetected I.F. outputs are available on BNC connectors. Speaker and dual-balanced line audio outputs are available on a terminal strip along with DC-coupled audio, ASSI and equelch outputs and a mute control input. The RS-232 interface is available on a DB-25 and CSMA interface is provided via a ministure stereo phone jack. The HF-1000 can be used as a tabletop receiver or mounted in a standard 19 inch equipment rack occupying 5.25 inches of vertical space. Operates 97 to 253 VAC (47-63 Hz) automatically adjusting to the input line voltage. One year limited warranty. Made in U.S.A.

	SPECIFIC	ATIONS	
Weight	5 - 30000 kHz 1 Hz 97 - 253 VAC (47-440 Hz) 35W typical	I.F. Oulput Noise Figure	85 dB min (>90 typical) 430 dBm typical 460 dBm typical 15 msec typical Fast: 25 msec typical Slow: 4 seconds typical

I.F. FILTERS (-3dB)															
56	56 113 225 450 900 1800 3800 7200 63 125 250 500 1000 2000 4000 8000														
63	125	250	500	1000	2000	4000	8000								
69	138	275	550	1100	2200	4400									
75	150	300	600	1200	2400	4800									
81	163	325	650	1300	2600	5200									
88	175	350	700	1400	2800	5600									
94	188	375	750	1500	3000	8000									
100	200	400	800	1600	3200	6400									
	PRICING														

HF-1000 List Price \$3995.00 HF-1000 Discount Price Order #1500 Dinnen cell



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Universal Radio, Inc. 6830 Americana Pkwy. Reynoldsburg, Ohlo 43068 U.S.A.

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Welcome to the following new NASWA members -

John Anderson, Mt. Airy, NC Robert E. Bistline, Mechanicsburg, PA Geoff Brown, Hopewell, NJ Alvin Buchman, Jamaica, NY Russell L. Cleveley, Wilson, NY Charles E. Cluck, College Station, TX Brent A. Cowen, Portsmouth, OH Jlm Donelson, Lantana, FL Jim Ducharme, South Hadley, MA Glen W. Eng, Flandreau, SD Donald J. Fredrickson, Cedar Rapids, IA David Frelmark, Grafton, WI Harold Frodge, Midland, MI Robert L. Gerlach, Palmyra, PA BIII Gler, Omaha, NE George V. Glraud, Freeport, NY

Christopher F. Guarino, Westlake Village, CA

Rowland Hamly, Decorah, IA Paul Hansen, Marlborough, MA John Hedberg, Portland, OR Bill Kingsbury, South St. Paul, MN Oscar A. Mendez, Denver, CO Raymond S. Moore, Key Largo, FL Fr. Francis J. Murhammer, Pittsburgh, PA John Nitsick Jr., Omaha, NE Joseph F. Noffsinger, Yardley, PA Mr. Arthur M. Olsen, Sioux Falls, SD Davld Pulkinen, Windham, ME Dale R. Schlenker, Hamburg, PA Don Stillman W3WQF, Philadelphia, PA William Tripp, Delray Beach, FL John J. Wren, Monterey, CA Peter J. Zuur, Staunton, VA

Calendar Of Events

- Nov 16 Meeting, N.E. Ohlo SWLs. Cuyahoga County Library, 9089 Brecksville Rd., Brecksville, OH (Rt. 21, just South of Rt. 82). 7:00 PM. For info send SASE to: NE Ohio SWLs, c/o Donald J. Weber, P.O. Box 652, Westlake, OH 44145-0652
- Nov 19 Meeting, Phlladelphla Area NASWA Chapter. Kulpsville Holiday Inn, Kulpsville, PA. 7:30 PM Contact Dan Cashin (215)446-7831
- Nov 19 Meeting, The Boston Area NASWA Chapter. Special guest speaker Jim Kearman, KR1S, Assistant Technical Editor at the American Radio Relay League (ARRL). Jim will talk about HF propagation in the coming years, and what antennas will be best for DXing. Location Bull Cafeteria, Billerica, Mass. 7:30 PM For additional information please contact Paul Graveline (508) 470-1971, or via modem on Tom's BBS, (617) 698-8649 (300/1200/2400 baud), (617) 698-8734 (9600).
- Nov 20 The Mlaml Valley DX Club (All band orientation) meets on the third Saturday of each month at 1 PM. Locations vary but are announced in advance. For info, call the MVDXC (614) 471-9973 Or, send a SASE to MVDXC, Box 292132, Columbus, OH 43229-8132
- Dec 4 The North Coast Amateur Radio Club Fall Hamfest, 8AM-2PM at St. Clarence Church, 30106 Lorain Rd., North Olmsted, OH 44070. Talk in on 145.29 and 224.76 repeaters. Admission \$3 advance, \$4 door. Contact: Rick Mace N8VKE (216)483-4818
- Dec 5 The TIdewater SWLs meet on the first Sunday of each month at 6:30 PM. For info, call Joe Buch, (804) 721-2782.
- Mar 11-12 The 7th Annual Winter SWL Festival, Kulpsville Holiday Inn, Kulpsville, PA.
 Registration form will appear in next month's Journal or SASE to Winter SWL
 Fest, PO Box 591, Colmar, PA 18915

Members are invited to submit items to be included in this calendar to Bob Brown.

Our Motto is - "Unity and Friendship"

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 soley those of the submitters.

James F. McElroy, 214 Sinclair Ave., Lanoka Harbor, NJ 08734

I have an old Hallicrafters radio model S-36D and Hallicrafters is no longer in business. My problem is that the line that controls the tuning dial is broken and no one seems to be able to repair it. Do you know of someone in my area that might help. I am in Southern New Jersey. Any help would be appreciated. Regards - Jim

Robert Pietraszek, 63 Millers Falls Rd., Turners Falls, MA 01376

Hard line reports on the Cultural Revolution could be heard on Radio Peking. Radio Station Peace and Progress from Moscow was the Voice of Soviet Public Opinion. Radio Berlin International was the Voice of the German Democratic Republic. Radio Portugal was the voice of the west while right next door under President Franco was "The Voice of Spain". On less crowded bands, Radio Ghana could be heard well on 11.850 megacycles at 2000 GMT. ORTF in Paris was only broadcasting in French while the "DX window" could be heard in English from Radio Denmark. From Canada on 6010 mhz was CJCB from Sydney, Nova Scotia and from the U.S. was AFRTS in Washington or WNYW Radio New York Worldwide. The "DX Special" could be heard on Trans World Radio Bonaire while Radio Nederland was completing work on its new relay station there.

Who were those special voices that we looked forward to hearing though? If we go through the week at Radio Nederland, the Dutch World broadcasting System, we find Eddy Startz at the "Happy Station Show' on Sunday, Dody and Jerry Cowan with record requests on "His and Hers" on Tuesday, Harry Van Gelder with "DX Jukebox" on Thursday, Van Dulken with "Letterbox" on Friday and Bruce Parsons and Alan Clark with "What's New?" on Saturday.

On any Sunday morning to North America from 1215 - 1315 GMT on Radio Australia you could hear - "Churches of Australia" followed by a bulletin of Australian News with John Royale, "Listener's Mailbag" with Keith Glover and "DXer's Calling" with Peter Homfray.

At Radio Sweden, Arne Skoog hosted "Sweden Calling DXers" while Trevor Williams, George Varoos, Sydney Coulson and David Noble hosted other programs.

Down to Larry Wayne at the Voice of Germany hosting his daily "Germany Today" with Jezzy the cat what am and on Tuesday and Thursday, "Your Hostess is Marlena".

Then down to the pleasant rotating announcers, Barbara, Monica, Pamela and Valerie, at SBC Bern while after "Echoes from Switzerland" you can hear the "Swiss Shortwave Merry-Go-Round" with Bob Thomann and Dave Simmons. Otto Berner helped with his weekly reports. On sunday, Monica and Ron gave you a ride on the "Melody Train/Mailbag Show".

Jean Novakova was the friendly voice on the "Magazine of the Air" at Radio Prague. She was no longer heard from again after the Russian Invasion of Czechoslovakia in August 1968 and was replaced by rotating announcers Yana Pavlikova, Martha Tryanova and Olga Mala.

On the very popular Radio Portugal, Margaret would read your letters on "Sincerely Yours" on Thursday or you could tune in to the Radio Portugal DX Club on Monday evening.

The ever jovial Henry Hatch would find you at the BBC World Radio Club while Margaret Howard read your opinions on "Letterbox".

Across the ocean again to Radio Canada where we find Pip Duke, Elaine McMaster and Duncan

Nicholson with the "Radio Canada Shortwave Club" followed by "Country Style" on Saturday. On Sunday, Earle Fisher read your letter on the "Listener's Corner" part one in the morning, part two in the evening.

Lastly, way down to RSA, the Voice of South Africa, where Arthur Hanna and Dorianne Berry hosted "P.O. Box 4559". David Lloyd played the South African Hit Parade and Leo Van Der Walt greeted you on the "DX Corner".

I'm sure there are many other names not mentioned here but perhaps another listener could share a few memories. I hope you found this enjoyable to look through.

ANARC SWL Ham Net

Tune in Sunday mornings at 10 A. M. Eastern Time on 7240 LSB for the latest in shortwave listening, DX tips, and up to the minute hobby news. Contributers share their DX tips via their own amateur radio stations or by telephoning a "gateway" station who then broadcasts the relayed tips. Net Controls Bob Brown KW3F, Dave Kirby N8JQX, and Hausie WB4JSP, host an always lively gang of DX monitors. (Best heard in the eastern half of NAm)

Ernest Lawrence, 11 St. Helena St., Perry, NY 14530

The summer is over. I am back at the radio again. My shack is in order and my new antennas are up. The late afternoon African stations are gradually improving. A much anticipated PNG opening around the equinox failed to develop due to heavy thunderstorm static. I haven't heard much of the really good stuff yet, so I don't have much to contribute in the way of loggings. Al Underwood of Silver Springs, NY, a fellow Longwave Club of America member, shared this beautiful quote with me. It captures the romance of DXing and might make good material for our Musings column.

"I keep the shortwave radio at my bedside. Most of the time there is only talk to be heard; but if one persists into the unlikely hours of the night there are stations that relent and play music. Fading in, fading out, I heard last night from where? Helsinki? The Cook Islands? Anthems of all the nations, celestial Music, music that left us years ago and now comes back from the stars transfigured, gentle, as evidence that all that is given forth will at length return. A closed universe, curved like an egg, enclosing us.

"There I lay in the dark, listening to the music of the stars and the crackling and humming that accompanied it like the dust of meteors, smiling, my heart filled with gratitude for this good news from afar."

Age of Iron by J.M. Coetzee (Vintage Press, 1990)

Don Moore; 11434 140th St; Davenport, Iowa, 52804-9538

I thought I should pass along a progress report on my shortwave listening class here at Teikyo Marycrest University, as I explained in a musing last spring. I guess the situation is best described as a short term set-back but a positive long term outlook. The class was scheduled to be taught this fall, but was canceled when not enough students signed up. But, that wasn't because there weren't interested students. A number of students were interested in the class but could not take it because of strict major requirements that specifically map out what the students have to take each semester and leave no room for electives. We are going to try offering the class again spring semester and hope for better luck.

As I said, the long term outlook for the class is good. We are currently revising the entire university curriculum to both allow more student choice in classes and make it more international in focus. The new general education requirements, which all students must take, will require a certain number of credits in classes that have an international focus, and the shortwave class will be one that meets this requirement. I believe this will make us the first university in the world where a class in shortwave listening helps meet the graduation requirements. In the meantime we are discussing putting in a shortwave listening lab, both for use with the class and for other students, including our international students who could use it to keep up with events at home. So, despite the initial setback, the university administration is very interested and supportive and the future is encouraging!

The NASWA Country List Committee has voted the following changes. Please make these changes alphabetically in your NASWA COUNTRY LIST. The committee hopes to bring out an updated country list booklet, reflecting these and other changes since the last printing, by the end of the year.

1. EUROPE: Current listing CZECHOSLOVAKIA. Amended to:

CZECHOSLOVAKIA (CZECH REPUBLIC)

2. EUROPE: Add as a new country:

CZECHOSLOVAKIA (SLOVAKIA)

3. EUROPE: Current listing YUGOSLAVIA. Amended to:

YUGOSLAVIA (SERBIA-MONTENEGRO)

4. EUROPE: Add as a new country:

YUGOSLAVIA (CROATIA)

5. EUROPE: Add as a new country:

YUGOSLAVIA (BOSNIA-HERCEGOVINA)

6. ASIA: Add as a new country:

SIKKIM (INDIA)

And, simply as a reminder of an addition made earlier this year, which some members may have overlooked

7. AFRICA: Add as a new country:

ERITREA

The NASWA COUNTRY LIST COMMITTEE has expanded its membership to seven. Recently added to the committee are David Clark, John Herkimer and Dr. Harold Cones, NASWA Award Chairman. Other members of the committee are Jerry Berg, John Bryant, Gerry Dexter and Don Jensen, Chairman.

The committee is working on a new and revised edition of the NASWA COUNTRY LIST which will include these recent additions. That list should be available within several months.

NASWA members with comments, suggestions or questions may contact the chairman, Don Jensen, 5204 70th Street, Kenosha, WI 53142, or any member of the committee. Please include an SASE if you wish a reply.

Those who may be interested in a detailed explanation of "radio country" lists in general and the philosophy involved in creating the NASWA Radio Country List are referred to "Counting Countries", an article in PROCEEDINGS 1989 (Fine Tuning Publications, Stillwater, OK).

Easy Listening

Richard D. Cuff 213 Parkview Avenue Allentown, PA 18104-5323 GENie R.CUFF MCI Mail 375-4854 CompuServe 71207,1604 Prodigy NCHT70A

Radio Netherlands— Documentaries and a New Feature

When one thinks of documentaries on radio, one normally first thinks of the BBC or, perhaps, the Voice of America. Radio Netherlands also provides documentaries in its English language service to North America. One such documentary, "Revenge of the Tide", on the 40th anniversary of a significant flood, won a silver medal in the June 1993 New York Festivals' International Radio Competition.

November documentaries include:

November 3rd and 10th: A two-part report on Israel and the Occupied Territories, compiled by Eric Beauchemin.

November 17th: Prohibition Politics, a look at the aftermath of the 1961 United Nations Single Convention Treaty on Narcotic Drugs. This treaty aimed to control marijuana and soft drugs use worldwide. Fifteen major European cities have since signed the European Resolution, a movement towards self determination in drug policies. These policies are often at odds with national policies.

November 24th: Dreamtime In Europe explores why Australian Aboriginal art and culture have a significant impact in Europe.

December 1st: Dutch Roots looks at the Dutch origins of New York City. Brooklyn native Jonathan Groubert visits with poet Leo Vroman and with Charles Gorring, curator of the last Dutch Farm.

Documentaries air in North America on 2350 Fridays, along with 0050 and 0350 Thursdays. The Pacific airings, often easy to

snag here in Eastern Pennsylvania, include Wednesdays 0750 and 0950, plus Fridays 0850.

Documentaries are also featured in the feature program called Encore. Some of the features in Encore have previously aired; one example is the series Dancing Through Columbia, airing on November 10th, 17th, and 24th. A repeat of Jonathan Marks' series Marks on Mechanics, looking at mechanical clocks, carillons, player pianos, early phonographs, and jukeboxes, airs through December. Encore is beamed to North America Wednesdays 2350; the Pacific airings include Wednesdays 0850.

Also new on Radio Netherlands is a sports program-Bats, Balls & Baselines. This program is airing for 13 weeks on a trial basis, and was prompted by a summer 1993 listener survey. African listeners were particularly interested in sports programming. Bats, Balls & Baselines will be split into four segments: Issues & Investigations, Sports Personality Profile, General Feature, and Fixtures/Results & Sports News. Howard Shannon is the presenter. While the program makes no claim to cover all sports at all times, the program does hope to capture a little of the enthusiasm that is universal to all sports. Look for Bats, Balls & Baselines to North America Saturdays 2350, and to the Pacific Saturdays 0850.

HCJB Program Highlights

HCJB has begun a new science and technology program—El Mundo Futuro. Host Allen Graham looks at topics such as computers, personal communications, medicine, scientists, and other futuristic themes. El Mundo Futuro is beamed to North America Wednesdays at 0100, 0330, and 0530.

Introspect looks at current events from a Christian perspective; join host Len Kinzel Tuesdays at 0100, 0330, and 0350.

On-Line is a magazine program providing information and entertainment from Europe. European politics, arts, and science all are covered. On-Line is beamed to the Americas at 0400 Saturdays.

DX Partyline has the distinction of having the longest running time—50 minutes—of any major international broadcast program on the shortwave listening hobby. John Beck and Karen Schmidt host; Sundays to the Americas at 0030, 0300, and 0500 UTC.

How many shortwave programs on cooking can you think off? Maybe John Figliozzi needs to add a new program category to his Shortwave Radio Guide: HCJB airs What's Cooking In The Andes, a weekly program hosted by Karen Schmidt on the foods, cooking, and cultures of Latin America. If you were looking for a program to interest your XYL in shortwave listening, perhaps this is it. Fridays to the Americas at 0100, 0330, and 0530 UTC.

BBC World Service Highlights

Unfortunately, *BBC Worldwide* was once again late in arriving. I have contacted the BBC for help in getting my copy sooner, and I hope to resolve this by next month.

That's all for November—training for a marathon (I finished—in 4:23) and business travel conspired to result in an abbreviated column. I'll be back with three full pages in December.

Until next month,

73 DE Richard

WANTED: Any SWL-related software for the MacIntosh. Will discuss terms. James E. Kilgallen, 228 Monterey Road, Fort Ord, CA 93941-5777.

WANTED: Hammarlund clock for HQ-170, HQ-180. Bill Wilson, PJ Box 1112, Anniston, AL 36202. Phone (205) 236-7440.

FOR SALE: ICOM R-71A. Gilfer customized with 4.0 kHz filter and Pre-amp effective in AM band. A-1 shape. \$595.00 including shipping. ALSO: Customized Beam Headings (from/to) and Distances (MI/KM) to over 482 WRTH-93 transmitter sites including the new Russian republics. ITU Country Codes included. Send your location or coordinates, \$6.95. NASWA Journals '91 and '92 complete, \$10.50 a year or \$20.00 for both. WRTH-91, \$10.95. "Passport to World Band Radio" '92, \$6.95. All prices include shipping (overseas extra). Cashiers check or money order only, please. Al Drehmann, Route 2, Box 3-B, Tryon, NC 28782. Phone (704) 894-3398, not collect.

FOR SALE: ICOM R-71A with PBT. EEB HPXF modification package (improved AGC, improved audio, pre-amp enabled below 1600 kHz, static protection diodes installed), 2.4 kHz 8 pole crystal filter, 4 kHz ceramic filter. RC-11 remote control, EX-310 voice synthesizer, CR-64 high stability oscillator installed. Box and manuel. Great DX rig and also suited for physically or visually challenged listeners. \$1616 value if new. Mint condition. \$800.00 U.S. firm plus shipping. ALSO: JRC NRD-515 modified by the late Perry Ferrell of Gilfer Shortwave. NDH 518 96 channel memory unit, NVA-515 speaker included. 6, 3.5, 2.4, and .6 filters installed. Operating and service manuels plus copies of various 515 reviews and sales literature included. Very good cosmetically, excellent mechanically and electrically. A DX classic for only \$750.00 U.S. firm plus shipping. ALSO: GROVE TUN-4 antenna tuner/pre-amp with power supply. Mint. \$45.00 U.S. firm plus shipping. GROVE PRE-3 VHF/UHF pre-amp with antenna module and power supply. Mint. \$30.00 U.S. firm plus shipping. Serious inquiries only, please. Mark Seiden, PO Box 112007, Miami, FL 33111-2007. Phone (305) 371-6421 1300-2200 UTC Monday to Friday. No collect calls.

Latin Destinations

Don Moore 11434 140th St. Davenport, IA 52804-9538



Hola amigos! Bienvenidos to Latin Destinations! A few weeks ago I received this year's catalogue for Pueblo to People, so I know it's time for my annual plug for this worthwhile organization. What is Pueblo to People? It's a nonprofit group that markets handicrafts, clothing, & food from Latin America. Their merchandise selection is great & from experience I can say of good quality. Their prices are not discount store prices, but are quite reasonable, especially compared to specialty import shops. If you want to decorate the DX shack with some items from the places you hear on the radio or are looking for some Christmas presents beyond the commercialized schlock of the local shopping mall. PtP is worth looking into. For a catalog, send one dollar to Pueblo to People: 2105 Silber Road. Suite 101-54: Houston, TX 77055.

Usually I stop there in promoting PtP, but I've been wanting to finds ways to try to explain the reality of the Third World, as in my "Life in Honduras" article a few months back. So, let's look behind the scenes at PtP to see a little more of that reality and how this one organization in helping improve people's lives.

Pueblo to People helps establish and works with peasant cooperatives and groups in several Latin American countries. PtP not only provides an export market, allowing these groups to produce and sell more, but pays them a much higher and fairer price for their products than is available locally. In some cases this translates into jobs for men who would otherwise not have a livelihood. In other cases it allows women to earn their families some much needed cash income. Although I did not work with Pueblo to People, as a Peace Corps volunteer in Santa Barbara. Honduras in 1982-84, I saw PtP's good works first hand, which is why I'm such an enthusiastic supporter.

In the average Honduran peasant family, the woman stays at home during the day patting out tortillas, washing clothes by hand, watching the children, and doing other domestic tasks. The men work in the fields. Some own a bit of land and raise food for their family and, with luck, have a little surplus to sell in the market. Others work for wealthier (not wealthy) landowners for two dollars a day—which is about enough to buy the beans and tortilla corn necessary to feed a family. Of course, sometimes there's no work.... Either way, Honduran peasant men can do little more than feed their families. There is no money left over for clothes, medicine, notebooks for school, etc. In the poorest families, young peasant children will often go naked or with only a single pair of underwear until they are three or four years old.

Peasant women traditionally do handicrafts at home in between their household tasks to supplement the family income. However, because of the typical Third World economic structure, their work is undervalued and produces very little additional income for the family. Where PtP has gone in organizing cooperatives and paying fairer prices, the additional cash income has allowed families to buy medicine, clothing, school supplies, etc.

A good example of this is with PtP's Honduan utility baskets and the baby bassinets, which are made in the small town of llama, a few miles north of Santa Barbara. Ilama is one of the poorest towns in this very poor country, but it has always been famous as a place where high-quality baskets were woven. The women used to sell their baskets to sort of traveling salesmenmiddlemen (called "coyotes" in local slang), who fixed prives among themselves so that they bought the baskets at very low prices from the women (3 or 4 dollars for a week's work) and then took the baskets elsewhere for resale at very high profits. PtP came in and organized the women into a cooperative and began buying the baskets at a fair (and much higher) price, which also forced the covotes to pay fair prices. The result has been a lot more cash income for some of Honduras's poorest people.

Similar cases exist around Honduras. The Santa Barbara hats are made by peasant women in the villages surrounding Santa Barbara. The people there are still poor by anyone's standards, but they now have a little more money for their hard work and can lead somewhat better lives. PtP's wood furniture from Honduras is made in a carpintry shop in Juticalpa which was in part set up by a Peace Corps friend of mine to provide jobs for untrained landless peasant men. The men had no carpintry skills at all and he had to train them in everything. Today their products are beautiful and the shop is a great success. Lastly, I've got to squeeze in here a mention the tasty dried cashew fruit (made from the fruit the cashew grows on) from a peasant cooperative set up by PtP in southern Honduras-it's great!

Odds And Ends

In followup to my February column on Santiago Atitlan, I recently made email contact via the Internet Central America list with someone who visited the town for two nights in July. He said that while there was still some tension in the air, he saw no soldiers and only two national policeman in town while he was there. Santiago Atitlan is still doing a bustling business with the daily tourist launches from Panajachel as well

The ups and downs of national economies have a lot to do with whether or not a lot of stations have the power switch of their shortwave transmitter turned on or off. From a number of sources, the good news is that Peru's economy finally appears to be recovering from the 1990 slump when inflation passed 7,000 percent. Inflation this year is expected to be only forty percent and should continue the downward trend next year. Meanwhile investment in the country by both Peruvians and foreigners is increasing dramatically and Presient Fujimori's popularity remains in the 60-70% range. The Sendero guerillas are still a very significant force, but they have been pushed back some since their leader's capture a little over a year ago. As money and confidence begins flowing in the country again, hopefully this will translate into more shortwave transmitters being turned on.

Despite rough spots such as Peru, the overall trend in Latin America is positive. While

browsing recently at the University of Iowa library, I came across some interesting statistics in the July 22, 1993 issue of "Latin American Weekly Report." Population growth in the region, which was 2.37% in the 1970s and 2.06% in the 1980s is expected to continuing sinking to 1.8% in 1990-95 (although certain smaller countries in the Caribbean & Central America will continue to have very high rates of population growth). The number of lifespan births per woman, which was 5.5 in the early 1960s, fell to 3.4 by the late 1980s and should reach 2.8 by the end of the 1990s. Average lifespan in Latin America was 61.3 in the mid-1970s, but should reach 69.8 by the year 2000. And in the year 2000, Mexico City will be the world's largest city, with 25.6 million inhabitants. Sao Paulo with be third with 22.1 million and Buenos Aires twelth with 12.9 million.

Finally, we here in the US are not the only ones with an illegal immigration problem. I forgot to note my source, but Argentina's 33 million population includes 2.7 million immigrants, legal and illegal, from other Latin American countries. That number includes a million Bolivians and 800,000 Paraguayans. The immigrants are drawn by Argentina's level of weath and economic development, relative to their homelands.

Anniversaries

A far as I know there wasn't a peep from Colombian Radio Guatapuri in response to the request for a 30th anniversary reactivation of shortwave. But, it worked before and was worth a shot. In fact, I'm trying it again with a letter to Venezuela's La Voz de El Tigre (3255) which will complete forty-five years on the air on January 9 (1948). They've been very irregular for the past ten years or so, but maybe we can convince them to share their anniversary with the world. Join me by sending a postcard to the station and don't forget to keep a watch on their frequency come January. A few active stations with anniveraries coming up are Radio Huanata 2000, Peru on January 8 (1983); Radio Federacion, Ecuador on January 29 (1968); HRVC, Honduras on December 8 (1960); Radio Centinela del Sur, Ecuador on November 18 (1956); and Radio Mam. Guatemala on January 11 (1975).

Hasta luego! Don

Feature Article

Please submit all contributions to: **Bob Brown KW3F**

238 Cricklewood Circle Lansdale, PA 19446 CompuServe 74756,1557 GEnie R.BROWN106 Packet KW3F @ WB3JOE

TECHNICAL UPDATE: Recent Changes in the JPS NIR-10 Audio Filter

by Mark Seiden'

In the DX'ers Forum of the July '92 NASWA Journal, I reviewed the JPS NIR-10 digital audio filter. In that review, while generally extolling the virtues of the filter, I noted that an update would be forthcoming which would reduce the effects of static and lightning crashes. Well, DX fans, there's good news tonight. First of all, the modification is here. Second, it works pretty well, and third, there's been a price reduction on the unit as a whole.

One day a couple of months ago, I received a notice from JPS that a new version of the EPROMS (designated series 3.0) was available for \$25. Its purpose was to reduce "pink noise" in addition to the white noise reduction already provided by the NIR-10. The 3.0 series EPROMS arrived a few days later and installed quickly and easily (no technical skill required). The EPROMS I selected were the "SWL version", best suited for AM and SSB voice signals, as well as ECSS tuning of AM signals. The "SWL" EPROMS contain fixed audio bandwidths of 3.0 KHz, 2.4 KHz and 1.8 KHz. Should you require different bandwidths, they can be requested at the time of your order. If your monitoring interests lie in the area of CW, RTTY or FAX, simply order the standard, narrower handwidths.

Basically, the newest revision keys in on the audio portion of the signal and digitally "peaks" the audio while reducing accompanying noise. To accomplish this, simply set the mode toggle switch to "bypass" and the bandwidth (BW) toggle switch to "narrow" while adjusting your receiver audio

to cause the "peak" indicator light to blink on signal peaks. The NIR-10 will now automatically continually vary the audio bandwidth so as to provide you with the best and strongest audio, minus a good portion of the accompanying "pink" noise.

The new feature can also be employed while using the NIR-10 "white" noise reduction feature by moving the "mode" toggle up to the "NIR" setting while leaving the "BW" toggle in the "narrow" and varying the amount of digital processing via the "NIR" center knob. This will reduce both "white" and "pink" noise, albeit at some degradation of audio quality.

Neither the "white" or "pink" noise reduction feature, as before, will operate when the NIR-10 is employed in the audio bandpass mode; that is, while varying the audio bandpass manually via the fixed 3.0, 2.4 or 1.8 digital bandpass filters.

Don't expect a total elimination of all noise and don't expect FM stereo audio quality. But again, depending on the bandwidths you order, when DX'ing in either AM, ECSS, SSB, CW, FAX or RTTY modes, the device will help to significantly reduce noise, reduce operator fatigue and assist in snagging those rare, hard to hear catches. It also makes program listening more pleasurable, reducing or eliminating hiss, hets, static and monkey chatter that can degrade even some fairly strong signals.

A few final points. The new software seems to work best when the radio contains a quality I.F. filter (for AM signals) of 6 KHz or less having good skirt selectivity. The NIR-10

^{*} P.O. Box 112007 Miami, FL 33111-2007

also works well with narrower filters for SSB, ECSS, and CW/RTTY use. It enhances the performance of my JRC NRD 535D and Drake R-7. It is of particular benefit to my JRC NRD-93 and JRC NRD-515, since neither of these two radios come equipped with a notch filter. The extremely effective auto-notch on the NIR-10 kills hets - even multiple hets - so quickly and effectively that the absence of a notch filter on the '93 and '515 has never proved to be an inconvenience.

All of the audio outputs on my radios are 4 ohms of impedance. These outputs are then fed into a Scotka Radio Labs audio filtering box that allows the filter to be switched in or out of the circuit, the selection of the radio to be used and then the selection of either a Drake MS-4 or JRC NVA-92 speaker, both of which are 4 ohms of impedance as well. This is a flexible set-up that allows maximum use of the NIR-10 and provides good, listenable audio.

It also helps to use the slow AGC setting on your radio. The constantly varying audio bandwidth (in the "pink" noise reduction mode) the new software provides seems to create its own AGC effect and employing a

"fast" AGC setting on the radio will sometimes cause the audio to flutter.

Digital technology and digital signal processing are the wave of the future. If Santa doesn't leave a Watkins-Johnson 8711 DSP receiver under the tree for you this Christmas, the series 3.0 version of the NIR-10 is a relatively inexpensive and effective way to employ advanced digital signal processing technology in cleaning up the audio that comes out of your existing analog receiver. All in all, a good thing.

The folks at JPS are very knowledgeable, professional and easy to deal with. And they've reduced the price of the NIR-10 from its original \$399.95 price to \$349.95, plus \$12 for the AC adaptor. If you already have the NIR-10, the 3.0 series software upgrade is only \$25, postage included.

JPS is located at:

JPS Communications, Inc. P.O. Box 97757 Raleigh, NC 27624-7757 Tel: (919) 790-1011

Hardware Bits

by Alan Johnson

NEW DRAKE RECEIVER - The R.L. Drake Co. unveiled its new SW8 receiver at the recent Monitoring Times convention. It is a portable (luggable is a better term) whose size and design are based on the old Magnavox D-2999, according to Larry Magne. It is a general coverage LW/MW/SW receiver with FM broadcast and VHF aircraft band coverage as well. It has three IF bandwidths of 6, 4, and 2.4 kHz provided by high quality 455 kHz ceramic filters. It has 100 memory channels and a single event timer. Also included is a built-in battery holder, whip antenna and front panel speaker. It lacks passband tuning and a notch filter. Anticipated price is in the \$600-\$700 range and delivery is expected in December 1993. Contact the R. L. Drake Co., P.O. Box 3006, Miamisburg, OH 45343; 800-937-2530.

PHILLIPS DC-777AUTOMOBILE SW RECEIVER-This option for SW reception in your car is now on sale at EEB and Universal for \$299. The 1994 Passport to World Band Radio says that the radio is being discontinued, so the lower price is to move the units out of the warehouse. I've been very pleased with mine, although after three years, the LCD display has become intermittent. Universal's phone is 800-431-3939 and EEB's is 800-368-3270.

NEW AOR SW RECEIVER - The 1994 catalog from Electronic Equipment Bank introduces a desktop SW receiver from the scanner manufacturer AOR, designated the AOR3030. The tentative list price is under \$900 and the unit is expected to be released in late 1993. It is a general coverage radio with provision for an internal VHF convertor. It has synchronous detection, keypad frequency entry, a RS-232C computer interface and can be powered by internal batteries.

The catalog entry touts several advanced engineering features such as Direct Digital Synthesis, high stability crystal oscillator (TCXO) and wide dynamic range. Specified standard IF bandwidths are 6.0 and 2.4 kHz. Contact EEB, 323 Mill St. Vienna, VA 22180; 800-368-3270 (orders) or 703-938-3350 (technical information).

CRYSTAL CALIBRATOR KIT - In a recent issue of the British publication, Shortwave Magazine, I noticed a kit from C. M. Howes Communications which may be of interest to those using older analog receivers. The XM I crystal calibrator provides markers of 10, 2.5 and 1 mHz and 250, 100, 25, 10 and 2.5 kHz with selectable pulsing for marker ID. The kit is \$30.95 (case and hardware kit is additional) and is available in North America from Townsend Electronics, P.O. Box 415, 133 N. 1st St., Pierceton, IN 46562; 800-944-3661 or 219-594-3661.

LOWE PR-150 PRESELECTOR - While we're on the subject of British products, let me mention the new Lowe PR-150 preselector. It is designed for those who use the HF-150 receiver in areas where there are strong local broadcasting stations, but is useable with any receiver. The PR-150 covers the range of 100 kHz to 30 mHz in seven bands and has a built-in+10 dB preamp and-16 dB attenuator. There is also a front panel switch to select between a 50 ohm unbalanced antenna or a 600 ohm balanced/unbalanced antenna. A preselector is a tuned circuit that peaks the desired signal and reduces the strength of signals outside the desired band. Although a preselector will not reduce adjacent channel signals (i.e. those 5 kHz away from the received signal), it will reduce strong out-of-band signals (such as local broadcasters) which can cause inter- and cross-modulation. Specified bandwidth of the PR-150 is +/- 5% of tuned frequency at 6 dB down and the -30dB bandwidth is +/- 25% of the tuned frequency. The external size and styling matches the HF-150 receiver. The list price is quite expensive at \$299, but the unit is well-engineered and built like a tank. Contact the U.S. dealers: Universal Radio or the Electronic Equipment Bank.

MAGNAVOX ANALOG PORTABLE - NASWAn Doug Robertson wrote that he has been very pleased with the performance of the Magnavox D1875 analog portable that is being closed out at \$39 plus \$5 S/H. The radio had been priced at \$59 from various dealers. It covers LW, MW, FM and 8 SW broadcasting bands between 49 and 11 meters with generous out of band coverage. Doug thinks it's a great knockabout radio. I have not verified that this offer is still available, but if you're interested give Heartland America a call at 800-229-2901.

FALCON AUDIO DISTRIBUTION AMPLIFIER - It took almost a year, but I finally received additional information on the Falcon 251A/252A amplifiers. These units allow the selection of any combination of up to seven speaker level audio inputs and routes them to any of four speakers. This allows for hooking up several receivers to a single speaker to minimize shack clutter or running the output of a receiver to several locations ("The family that DX's together, stays together"). The amplifier has a four watt output into two ohms and the unit is well-bypassed to minimize RF interference. Price for the single channel F251A is \$64. Call or write Falcon Communications, P.O. Box 8979, Newport Beach, CA 92658; 714-645-8155 for more information and the location of your nearest dealer.

RIG COVERS - Kenwood TS440S and Icom 751A Free for \$2.00 postage. These are custom made fabric covers that will do a great job keeping your rig dust-free. Vernon Hyson, 5410 Camp Stewart Rd, Charlotte, NC 28215 704-536-3223 (No collect, after 2300UTC)

Listener's Library

T. J. "Skip" Arey WB2GHA P.O. 80x 644 Waterford Works, NJ 08089 GEDIE T AREY1

Well, here we are again, ankle deep in the DX season. No doubt everyone is too busy chasing elusive signals from Radio Freedonia to sit down and read a good radio book. Still in all, the holidays are fast approaching and you may want to kick back during the break with a tome or two.

Another beginner's book has crossed my path, serving to remind me that I really should get something in print one of these days. I don't really think the market can have enough beginner's books, but it sure is getting fairly competitive.

SHORTWAVE LISTENING GUIDEBOOK THE COMPLETE GUIDE TO HEARING THE WORLD

Second edition by Harry Helms 323 Pages \$19.95 HighText Publications Inc. Solana Beach, CA ISBN: 1-878707-11-6

As I have said in previous columns, many of us increasingly more senior members of the radio monitoring community got our start by reading Hank Bennett's Shortwave Listener's Handbook, Bennett's book was the standard. one stop shortwave listening guide for years. Later editions of Bennett's book benefited from updating by several authors including HARRY HELMS. Harry has written many books and continues to write several columns in the hobby press. Of all his publishing efforts. I think it will be Harry's SHORTWAVE LISTENING GUIDEBOOK that will slowly replace all those dog eared copies of Hank Bennett's book in public libraries across the land.

The reason for a second edition is largely due to the many changes that have occurred in the world since the 1991 edition came out. Not only has the world's man changed. international shortwave broadcasting has changed drastically as well. New governmental and commercial broadcasting stations are appearing throughout what we once called the Soviet Union. We now have a viable "No code" amateur licensing program in the United States. We are awaiting an expansion of the AM broadcast band. Pirate radio is flourishing. All of these shifts in the shortwave milieu have given Helms an opportunity to restring his prose in an updated and expanded manual for the radio hobbyist.

In the tradition of Hank Bennett, Harry Helms wrote this book for folks who have no previous involvement with the shortwave radio hobby. He uses simple, non-technical language to let people in on the wonders of long distance radio reception. Harry gives the beginner a clear and concise understanding of how shortwave radio works. He goes on to help the newcomer pick their first receiver and decide on possible antenna solutions. As in previous books, his antenna selection section is sparse, but this may actually be of some benefit to the beginner who can wallow in antenna lore and legend later in their listening careers. Harry's real forte are his sections describing what a beginner might hear once he or she starts to tune in. Helms has always had an ability to turn the simple facts concerning the various broadcasters into truly enjoyable reading. This, I believe, is his key to hooking beginners. This technique continues beyond the more powerful international broadcasters into discussions of clandestine, pirate and numbers stations. Harry even throws in a little hobby gossip. He doesn't name any names, but a few folks will be recognizable to anyone who has been around the hobby for a few years.

The first thing I do whenever I pick up one of Harry Helms' books is turn to the chapter covering GROUND CONNECTIONS. You see, Harry and I have had a long standing gentlemen's disagreement over the use of ground wires. Harry's theory, as applied to modern receivers is quite sound and he has almost got me convinced on this point as well. This sound theoretical base is behind all of this book's chapters that depend on engineering. The knowledge is passed on to the beginner without scaring him or her away. Helms' chapter on radio propagation is about as good as can be found outside of some dusty, boring technical manuals.

Interestingly, Harry has taken most of the hobby aspects of shortwave listening and pulled them together in a single chapter. In this way he gives the reader a notion about logging, QSLing and the various clubs (including NASWA). This serves to remind us that there is a wider audience for shortwave listening then ever before. The growth of shortwave listening brought about by events such as the fall of the Soviet Union and the Gulf War have not been lost on Helms. These two events are also covered to introduce the beginner to the up to the minute excitement of shortwave listening.

I highly recommend the SHORTWAVE LISTENING GUIDEBOOK to all beginners and folks who think they know it all in the radio hobby. You will be hard pressed to find a better beginner's book. That is, until I get around to writing mine. And THEN we will see who knows a thing or two about ground wires!!!

FERRELL'S CONFIDENTIAL FREQUENCY LIST

Eighth Edition Compiled by Geoff Halligey 544 Pages \$22.95 Gilfer Associates, Inc. Park Ridge, NJ ISBN: 0-914542-24-9

Perry Ferrell left us too soon!!! The face of our hobby may even have been somewhat

different if he had lived on. His efforts to compile a useful listing of shortwave utility frequencies has been ably carried on through the eighth edition of his CONFIDENTIAL FREQUENCY LIST. Geoff Halligey has been a professional radio operator since 1933 until his retirement. He has since put his expertise in marine, ground and air radio helping hobbyists figure out what was going on out there between the broadcast signals.

Normally, I would review a book such as this in the SHORTWAVE SIDELINES section of this column. Instead I have moved it up a few column inches. With the edges of the various shortwave bands becoming increasingly flexible, (e.g. the 41 meter broadcast band above 7300 kHz) I thought it might be helpful for shortwave broadcast folks to look at a book that might help explain what's going on.

When I make a reception report to a broadcast station, I usually include information about any interfering signals. On more then one occasion the CFL has helped me put a positive ID on the interference, further enhancing my report (and hopefully, the likelihood of a reply) by providing potentially useful information to the station. Also, more and more hobbyists listening posts are including receiver/computer interfaces that translate the multitude of digital modes out there. Books like the CFL go along way in helping the hobbyist get the most use out of his or her demodulator.

Use of the CFL is very straight forward. It is usually as simple as looking up the frequency and seeing what's there to hear. The book covers 1605 through 28,000 kHz covering all the common utility modes: CW, SSB, ISB, FAX, RTTY and Digital Selective Calling. This edition includes all of the changes that occurred in the Maritime frequencies since July of 1991. The listings have special sections for Group Callsigns and locations, Channel markers and "Spy" numbers stations. The numbers station list is quite comprehensive when compared to loggings in the various utility and clandestine club bulletins. A recent, useful addition to the CFL is its "Blue Pages". This is a listing of all identified signals by callsign followed by the frequencies these signals have commonly been heard on.

The CFL is made available in and easy to handle wire spiral binding that is a joy to use. I wish the WRTVH and Passport to Worldband Radio had such bindings.

If you have more then a passing interest in what goes on underneath your favorite broadcast stations, you might want to add the CONFIDENTIAL FREQUENCY LIST to your holiday gift wish list.

Shortwave Sidelines

More then a few radio hobby folks will be looking for a VHF/UHF scanning receiver under their Christmas trees this holiday season. "Scanning" remains an exciting aspect of the radio hobby. My Radio Shack Pro-2005 runs nonstop at my listening post, clueing me in at all times to my more immediate universe as I monitor the world on my shortwave rigs. Modern scanners have wide frequency coverage and memories that run well into the hundreds of channels. This allows the monitor to enjoy listening to many things beyond local police and fire calls. If

you want to see what you have been missing take a look at the...

SCANNER RADIO GUIDE

by Larry M. Barker 148 Pages \$14.95 HighText Publications Inc. Solana Beach, CA 1SBN: 1-878707-10-8

Barker's book is a great one volume guide to the modern world of VHF/UHF monitoring. Scanning is shedding its "blue collar" image as modern microprocessor controlled radios give easy coverage of Government, business, marine and rail systems in addition to the more traditional public safety frequencies. Larry reviews the fundamentals of VHF/ UHF monitoring including equipment, antennas and propagation all of which can be significantly different from what a shortwave monitor might be used to. The book then covers the myriad of signals worth chasing in this frequency range. Once you read this book you will never be board with scanning again.

FOR SALE: A cassette tape of Indonesian stations is now available. The tape includes mainly AM stations in Yogyakarta and Surakarta including the RRI stations there. The price is \$5.00. Juichi Yamada, 10 Watamachi, Yamatokoiyama-City, Nara, 639-11, Japan.

FOR SALE: NASWA PRENDX/Journals complete 1979-1991, \$10.50 a year or the entire 13 years for \$100.00. Popular Communications complete 1986-1988, \$12.00 a year or all three years for \$30.00. Prices include the shipping. Cashiers check or money order, please. Paul Brouillette, 611 Illinois Street, Geneva, IL 60134. Phone (708) 208-6406, not collect.

FOR SALE: 10:1 matching transformers for matching long-wire and Beverage antennas. Transformers are available for matching Beverage antennas only, or for matching either a Beverage or long-wire antenna. Please specify!. The Beverage version must be grounded at the transformer, while the Beverage/long-wire must be grounded at the receiver only. Price \$20.00 each postpaid in the U.S.A. Steven R. Lare, 824 West 25th Street, Holland, MI. Phone (616) 335-2270.

Listener's Notebook

Hans Johnson

7529 Red Cravat Court Columbia, MD 21046 CompuServe 73042,3644

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All times are in UTC and all frequencies are in kilohertz.

EDITOR'S NOTES Much thanks to Bob Brown, Bill Oliver, and Alan Johnson. My old computer died the middle of the month and the above gentlemen got me running again. Also thanks to Tom Sundstrom for all his software support that has made doing this column easier.

I am pleased to announce that Mathias Kropf and I are now exchanging Clandestine Radio information via e-mail. Mathias complied the Clandestine Radio Survey in the 1993 WRTH. He also writes Clandestine Radio column for Contact and Shortwave News.

I also received my first direct issue OZDX this month. Richard D'Angelo has been providing us with OZDX news but receiving it direct will improve our timeliness by one month from time to time such as this month when it arrived on the 27th.

AFGHANISTAN - Radio Afghanistan The external service was heard on 4775 operating on the following schedule on September 25th: 1400-1430 Urdu 1430-1500 ENGLISH 1500-1530 Russian 1530-1600 Arabic. (BBC Summary of World Broadcasts World Broadcasting Information No. 40 October 1st)

ARMENIA - Arax Radio Agency 12010 Heard on this new frequency from 2343 until 2357 in English. Parallel 9685 also a new frequency. Yerevan was also heard in English an hour earlier on new 7440. Listed 9705 was not heard. The English transmission from 0344-0357 was heard on new 7105. The station announced these unheard frequencies. 10344 17605 17690. 7105 is via a Radio Moscow transmitter. (Brian Alexander October 3rd)

AUSTRALIA - Radio Australia Undersea power cable problems at Radio Australia's Darwin site have affected operations at a second site, Shepparton. Engineers at Shepparton have been told to suspend any work on the commissioning of new Shepparton antennas until the Darwin 66-kv. cable is repaired. So Shepparton's 5995 channel is silent, because Shepparton lacks enough antennas to carry the full schedule. (Media Network September 30th via Mike Fern)

AZERBAIJAN - Radio Dada Gorgud The station planned to add 15 minute blocks of German and French starting in mid October. (ibid) This station is on the new frequency of

7160 from 1700-1800 with English. (Jacobsen Internet via Ben Krepp)

BANGLADESH - Radio Bangladesh Has verified via the following address: National Broadcasting Authority, Receiving and Research Centre, 121 Kazi Nazral Islam Avenue, Dhaka 1000. The verification signer was Md. Romissuddin Bhuiya, Senior Engineer. (Weiss Play Dx No. 760 October 18th)

BELARUS - Radiofenster-Radio Window is a new German Christian missionary program heard every Friday from 1845-1900 via Minsk on 7150 and via Moscow on Saturdays 0943-1000 15125 15420 17670 17680. The address is: Radiofenster, D 58244 Ennepetal, Germany. (Buttner Shortwave News October)

BHUTAN - Bhutan Broadcasting Station 5030 is the new frequency, ex 5025. First heard on October 1st until 1500 sign off. (Jorna Mantyla Internet via Ben Krepp October 5th) I suggest getting this one now as TWR Costa Rica will soon occupy this frequency from 1100-1500 according to Adrian Peterson. (Clark Numero Uno No. 1242 October 22nd)

BOLIVIA - Takayuki Inoue Nozaki sends along a special monitoring report from Bolivia that comes to us in his Relampago Dx Logging No. 24 October 2nd-8th:

Radio 9 de April 3200.4 Relays news from Radio Nacional de Huanuni during its 1030-1200 transmission.

Radio Chaco 3280 Inactive Radio Charcas 3380 Inactive Radio Viloco 3340.2 Not audible Radio Florida 3370.5 Probably inactive Radio Emisora 20 de Diciembre Inactive Radio 20 de Septiembre 3754.3 Inactive Radio Enterrianas 3884.9 May be closed down

Radio 11 de Octubre 4183.4 Irregular
Radio Perla del Oriente 4211v Inactive
Radio Eco 4409.21 Actual schedule is 22300200 daily

Radio Santa Rosa 4420.7 Inactive

Radia Estaction Frontera 4449.9 Schedule

is 2100-0100 daily

Radio Movima 4471.93 Schedule is 1030-1600 2100-0200 and Sundays 1100-1700 2200-0200v. They are now using a Philips Brasil transmitter which had been used by Radia Fides 4845 until March 1992.

Radio Hitachi 4530.16 Schedule is 1100-1700 and 2200-2400. They are off on Sundays Radio Perla del Acre 4600 Schedule is 0900-1100 and 2130-0300. They are off on Sundays

Radio Machupo 4625.71 Poor modulation Radio Entre Rios 4630.9 Inaudible

Radio Santa Ana 4649.09 Schedule is 1030-1700 and 1930-0200. Sundays 1100-1700 2130-0100

Radio Mamore 4739.6 Closed down and July for economic reasons and is for sale Rado Guanay 4765.25 Reactivated but weak signal Radio Los Andes 4775.2 Inactive

Radio Emisoras Ballivion 4784.5 Active but

only heard 1500-1700

Radio Nueva America 4795.9 Inactive Radio Difusora Libertad Was closed down in January 1993, because 80 miners who worked in the Mina Santa Fe abandoned the mining center because of poor work conditions

Radio Nacional de Bolivia 4815 Inactive
Radia Narie 4939.21 Active, but poor
modulation

Radio Maria Auxiliadara 4974.8 Inactive Radio Mineria 4980.6v 1000-1400 2200-2400v

Radio Animas 4991.3 Is using a Sparta

brand transmitter of 1 kW

Radio Libertad 5004.75 Active, but poor

modulation

Galaxia Radiodifusion 5156.24 Schedule is

1200-2000 0000-0230. Sundays 2000-2200v Radioemisora 2 de Febrero 5505.1 Schedule is 1200-1530 and 0000-0230. Off on Saturdays

is 1200-1530 and 0000-0230. Off on Saturdays

Radio San Jose 5580.25 Irregular in the mornings

Radio Nacional de Huanuni 5964.7 Has ids at 0906 sign on in Spanish, Japanese and English

Radio Loyola 5990 Inactive

Radia 21 de Diciembre 6081.4 Inactive Radio Luis de Fuentes 6140.7 Inactive

Radio Velmar 6325.1 Campamento Santa Maria, Oruro This is a new Bolivian pirate outlet that is operated very irregularly by the Miners' Syndicate of Santa Maria in the local evening. They have a 100 watt transmitter that had been used by *Emisoras 27 de Julio* in 1987. QTH is: Campamento Minero de Santa Maria, Provincia Dalence, Departamento de Optro.

Radio Fides 9625 Inactive

Radio Ecologia Internacional 4441.23 When I visited Radio Movima in Santa Ana del Yacuma on Santa Ana del Yacuma on September 20th, Sra. Mavis Serrano, the owner of the station, informed me that Radio Ecologia Internacional in San Matias and Radio Santa Rosa (4420) have been operated by the "Serrano" family. With her assistance, I was able to speak with Sr. Jose Vaca Diez Justiniano, the owner/director of Radio Ecologia International. The station was inaugurated on March 5, 1993 and is the first station in San Matias. The station uses a HUCARR brand transmitter with a 300 watt output into a half wave dipole antenna. This is a famous brand and the majority of stations in the Bolivian Amazon Basin use them, for example; Radia 11 de Octubre (4183.4) Radio Eco (4409) Radio Estaction Frontera (4449.9) Radio Hitachi (4530.1) Radio Perla del Acre (4600.1) Radio San Ignacio (4901) etc. The operating hours of the station are from 1215-1700 and 2100-2400 daily. When they have alot of music requests with "saludos" from audiences the evening transmission is extended to 0100 or sometimes to 0200. He said that he had send QSLs to some reception reports. Has anyone received one yet? The QTH is Calle Bolivar No 30, San Matias, Provincia Angel Departmento de Santa Cruz Sandoval. (Relampago Dx No. 50 Takayuki Inoue Nozaki)

La Palabra 4903.87 This is the correct name for this station. They started operating on January 1, 1993 using a tiny 100 watt transmitter into a half wave dipole 10 meters high. The slogan is La Palabra, paz y bien para todos vuestros hogares. The station's schedule is: 1200-1800 2100-0045 and Sundays 1200-1345 2300-0045. (ibid)

Radio 27 de Diciembre 3350 is active again. (EPP LADX No. 157/WRTH LA-NL No. 7 August 7th via Play Dx No. 758 October 3rd) Radio Sararenda 4884.6 :s active again but

only in the mornings. Sign on is 1030. (ibid)

Radio San Ignacio 4901 Sign on is 1045

except for Sundays when it is 1100. (ibid)

Radio Mineria 4980.6v is active again and

Radio Mineria 4980.6v is active again and sign on is 1000. (ibid)

Radio Altiplano 5044.9 Reactivated in early October. Sign on is around 1000. (HJ) Irregular operation, heard in the mornings (TIN Relampago Dx Logging No. 24 October 2nd-8th)

BRAZIL - In addition to traveling to Bolivia, Takayuki Inoue Nozaki also went to Brazil:

Radio Alvorada 2460 This or Super Radio Alvorada is the id and they operate 0900-1100 2200-0200. Canned ids every half hour.

Radio Difusora de Brasileio 3569.9 is the name of the station that was known as Radio Educadora 3 de Julho until 1992. They are on from 1000-0400 Sundays 1100-0200 with a home brewed transmitter of 300 watts. This is an unauthorized operation i.e. a pirate.

Radio Caiari 4785 Has been inactive since

1992.

Radio Progresso 4945 Is using a Philips Brasil transmitter with 7.5 kW rather than the 50 kW Harris transmitter due to economic reasons.

Followup to October LN Radio Difusora 4795 Checking my QSL album, No great solution there with the QSL "certificado" Difusora mentioning both Radio Aquidauana Ltda" and Radio Nova difusora de Aquidauana. The signiture stamp reads Radio Difusora de Aquidauana Ltda. The acompaning letter had three references to the station; all were either Radio Difusora de Aquidauana or Radio Didusora. Take your pick but only one reference to "Nova" in the station's reply. (Rich D'Angelo October 8th)

Radio Bandeirantes 4838.6 Heard on this new frequency parallel to, but slightly ahead of, 6090. I am still not sure of the site. There is an inactive station, Radio Atalaia, in Corumba listed on 4837.6 in the 1992 edition of LA Dxing so there might be a connection. (Valko/HJ Dxpedition in Dunlo, PA area October 3rd)

Radio Alvorada 4865 Reactivated on October 23rd. Heard at 0558. (Tony Orr October 23rd)

Radio Universo 11765 Heard on this new frequency. (Guillermo Play Dx No. 756 September 19th) No times given. (HJ)

BULGARIA - Radio Bulgaria English schedule as monitored: 0100-0200 1830-2000 and 2245-0015 7455 9700 0500-0630 9700 11720 1130-1300 11645 13645 1515-1645 12085 2100-2200 6085 9700 and 1330-1500 probably English to the Far East that was to start on October 15th. (Ed Rausch October 3rd) The station has a new interval signal for their English service. (Brian Alexander October 3rd) This station was heard broadcasting in an unidentified language on new 5889.47 parallel 6209.97 from 0335 tune in until 0359 sign off. (ibid October 17th)

Radio Horizonte 5890 A new frequency parallel 6210, also new, until 2000 off. (Padula Australian Dx News October)

see UNITED STATES VOA

BURKINA FASO - see SWITZERLAND

CANADA - Observations: CKFX 6080 or CKZU 6160 not heard at any time, although the

AM side of CKFX was heard. So obviously those stations are off the air currently. (Dave Valko Dxpedition Grayland State

Washington October 8th)

CFCX-Montreal on 6005, the 500 watt relay of CIQC-680 MW left the air sometime in August and a station representative indicates it could be some time before the old transmitter is back online. (Adrian Peterson in Radio News Bulletin No. 10 - September via Dave Clark's World Radio Report DX Ontario November) Still off on October 26th. (HJ)

CHINA - Xizang PBS Monitored schedule for Tibetan program is as follows: 5949 5995 from 1200 fade in to 1550 sign off. irregular at the same time on 4035 4820 6220 and from 1500 fade in to sign off on irregular 5021. (Kito-Japan-Tropical Band Dx Review No. 29 September via Herkimer Numero Uno No. 1239 October 1st)

Heilangjian People's Broadcast Station Second Program, Harbin, was reorganized as Heilongjiang Economic Broadcast Station on September 20th. The schedule is 0400-1300 on 5950.

The changeover was preceded by heavy promotion on the former station. (Nobuo Hina, Kunihiro Ishida and Tetsuya Kondo Asia Broadcast Institute on Media Roundup October 4th via Mike Fern)

The ID sounds like Heilongjiang ching shi guang bo dian tai. Co-channel QRM from Radio Moscow World Service in Japanese is severe from 0930-1200. (MF) The Korean service of Heilongjiong People's Broadcast Station Second Program was upgraded to a broadcasting station [more time, more staff] in February to mark its 30th birthday. The Heilongjiang Korean Broaucast Station has the following schedule: Sun thru Fri 2100-2300, Mon thru Sat 0200-0400, and Sun only 0000-0400 on 5950. Mon thru Sat 0230-0330 on 7350. (Tooru Yamashita on Media Roundup October 4th via Mike Fern)

Voice of Jinling is a special service in Chinese targeted at Taiwan, Hong Kong and Macao. It operates 0035-0300 on 7215. and from 1155-1600 on 4875. It mailing address is: P.O. Box 268, Najing, Jiangsu 210002, China. (Tatsuo Gima, Asian Broadcasting Institute, on Media Roundup September 20th via Mike Fern)

Sichuan PBS 5900 has been reactivated. Heard from 1025 sign on until 1350. (Kito Tropical Band Dx Review No. 31 October 9th via Herkimer Numero Uno No. 1241 October

Jonathan Marks interviewed VOA's Kim Andrew Elliott, who recently travelled to China:

JM: Some broadcasters beam programs into the country on SW. Kim's experience as a tourist with a shortwave portable showed that the Chinese authorities are definitely worried about voices from abroad, and they take measures to stop them.

KE: Because of the jamming I heard, of VOA and BBC, and the jamming makes it very difficult to hear these stations, one has to be a dedicated listener. I think the audience might be smaller for that reason.

JM: Even if the audience is only 1 or 2, that's still a big number in China. Some of the shortwave receivers made in China are appearing as export models in the west and in

other parts of Asia.

KE: They are available. They're not widely available. Some stores only have one or two models. One department store in downtown Shanghai had quite a variety. The most active maker seems to be a company called Bolong, which may be a trade name. Some had only shortwave broadcast bands, others were general-coverage analog sets. I even saw one digital shortwave receiver with the Bolong brand name. Prices ranged from 80 RMB, a bit less than a week's salary, to 400 or 500 RMB, or over a month's salary. You could even buy Sony shortwave radios for, maybe, three months' salary. (Media Network October 7th via Mike Fern)

REPUBLIC OF CHINA - (TAIWAN) The Broadcasting Corporation of China broadcasts part of its domestic service to the People's Republic of China. There are two networks called News Network and Popular Network. Both broadcast in Chinese. News Network uses 7295, 9610, 9765, 11725 and 15270. Popular Network is heard from 0000-0900 on 9280, and from 2100-1700 on 11885 and 15125. (Takashi Kitani and Tetsuya Kondo, Asia Broadcast Institute on Media Roundup September 20th via Mike Fern)

CLANDESTINE - My latest survey complied in June 1993 shows that the average number of years-in-service of all clandestine stations that are currently active on the shortwave is 7.4 years. For comparison, the same number was 5.9 in 1991, 7.0 in 1990 and 6.9 in 1989. Amazingly, this means that even in our fast-paced time, clandestines are getting older than a few years ago. Some of the oldest operations which are currently still active are (starting year in brackets): Voice of the National Salvation (1970 as Voice of the Revolutionary Party for Reunification, renamed 1985) Voice of the People of the Wa State (1971 as Voice of the People of Burma, renamed 1990), Voice of Palestine (1972), Echo of Hope (1973), Voice of the Free Sahara (1975) and Voice of the Resistance of the Black Cockerel (1979) (Mathias Kropf Contact September via Rich D'Angelo)

AFRICA Radio Mogadishu the pro-Aideed station, was heard on 6870 at 1700 where it was blocked by a form of pulsating white-noise

signal apparently transmitted without a carrier. On September 27th, the station moved to 6877 where it was free of the interference. (BBC Summary of World Broadcasts World Broadcasting Information No. 40 October 1st) The id in Somali is: Radio Mogadishu, codka ummad weeynta Soomaliyeed was first heard on July 19th. This is the pro-Muhammand Aideed station. His previous station, which was on mediumwave, was destroyed by UN forces in June 1993. The location of the radio's studio and transmitter has not been confirmed. (idid Broadcasting Schedules)

Voice of Free Somalia The complete address for QSLs is: Sam Voron, 2 Griffith Avenue, Rosewill, NSW 2069, Australia. (Mathias Kropf Shortwave Wave News

November)

According to Reuter news reports dated October 1st the latest frequency changes by the Voice of the Resistance of the Black Cockerel (9700 to 9710 and 11830 to 11837) appear to be a consequence of the VOA starting to use the old VORGAN frequencies. Although both sides denied that a deal existed to keep the UNITA frequencies free, some reports suggest that these latest events may be in direct relation to the discontinuation of US support for UNITA. (Mathias Kropf Contact November) Perhaps this is the response. (HJ) Since October 16th, the station's schedule is now: 0445-0845 9550 4960 1045-1440 11830 7290 1630-2200 7290 4960 (BBC Summary of Broadcasts World Broadcasting Information No. 43 October 22nd) Father John Eckart recently obtained a QSL from this station from the address in the 1993 PWBR that is, P.O. Box 65463, Washington, DC 20035. This one is a very tough verifier. (HJ)

The resistance group in opposition to the government of Mozambique, RENAMO, is apparently using the 100 kW transmitter of Swazi Commercial Radio in Swaziland although it claims to be broadcasting from Mozambique. The station is using 6155 on the following schedule: Mondays to Fridays 0400-0500 1600-1700. Saturdays 0400-0530 1600-1730. Sundays 0400-0600 1600-1800. The station started these transmissions on October 16th. (BBC Summary of World Broadcasts World Broadcasting Information No. 43

October 22nd)

ASIA Broadcasting from South Korea to North Korea Echo of Hope returned to its winter schedule October 1st, which follows: 2300-0100 and 0300-0700 on 6348; 0800-1200, 1400-1700 and 2000-2100 on 3985. (Atsushi Otsuka on Media Roundup October 4th via Mike Fern)

Voice of the People Also broadcasts to the North from South Korea. Its new schedule is: 0300-0430 0600-0730 0830-1000 6518 6600 1200-1330 1500-1630 3912 and 2100-2230 2300-0030 6600. (Kito Tropical Band Dx

Review No. 31 October 9th via Herkimer Numero Uno No. 1242 October 22nd)

According to a Reuter news report of September 18th citing the Mekong Journal, the UN peace keeping forces in Cambodia jammed the Khmer Rouge run Voice of the Great National Union Front of Cambodia broadcasts previous to and during the elections in May. The paper said that according to UNTAC sources sometimes even FUNCINPEC (Voice of Khmer?-MK) radio programmes were used to jam the Khmer Rouge broadcasts. (Matias Kropf Contact November)

Voice of Free Tajikistan Tipped off from the below Moscow story, BBCMS first found this station on October 20th. (HJ) ... People outside Tajikistan are trying to fill the information vacuum: For a second week now a new radio station "Free Tajikistan" has been heard....(The station) is likely near Tajikistan's border or in the mountainous regions of the republic and (those working for it) are former employees of the republic's radio. The station might also have programs in Russian and

Uzbek.

The authorities reaction inside the republic was very prompt: The seizing of shortwave radios ordered by the chairman of the Garm Rayon Executive Committee began with 43 sets being confiscated in the first days of the operation. At the same time, the jamming of Liberty programs Radio continues. (Nezavisimaya Gazeta, Moscow in BBC Summary of World Broadcasts Broadcasts Information No. 43 October 22nd) The station's schedule from October 23rd is: 7080 nominal but observed on 7088.5 at 0300 0600 and 0900. (ibid)

Radio Free Afghanistan This station's last transmission was on October 20th. (David Walcutt October 25th)

MIDDLE EAST Voice of Human Rights ond Freedom for Iran A verification letter signed by Mina Alborzi was received from 18 bis, rue Violet, 75015 Paris, France. In addition to broadcasting the station claims to conduct "covert operations carried out through an extensive network of cells operating in Iran." A schedule was also sent: 11470 15100 15670 from 1030-1225, 1445-1530 and 0030-0225. 9359 15100 2200-2245. (D'Angelo Numero Uno No. 1237 September 17th) Times are most likely an hour later now with end of summer time in Iran. (HJ) The schedule somehow doesn't seem to fit together with the lastest observations. (Mathias Kropf Contact November) 15145 replaces 11470. parallel 15100 and strong 15670 but all frequencies were jammed. (Buschel via Mathias Kropf Shortwave Wave News November)

Radio of the Republic of Iraq, Voice of the Iraqi People (Ith'at al-Jumhuriya Al-Iraq, Sowt

ash-Sha'ab Al-Iraqi-Arabic)

Although they gave no times, this station announced the following frequencies on September 17th: 9980 13670 15135 15235 15580.

(BBC Summary of World Broadcasts World Broadcasting Information No. 39 September

Voice of the Movement of the Mojahedin of Iranian Baluchestan-Jonbesh-e Mojahedin-e Baluchestan Iran-e Tabari (Farsi) Carries programming hostile to the Iranian government and is believed to operate from transmitters in Iraq. A Baghdad post office box is announced as an address. The radio was first observed on March 2, 1987. In October 1993 the radio announced that it broadcasts in the 19 and 21 meter bands. Previous observed frequencies include 7180 7250 9545 11970. The current scheduled programs are in the Baluchi language from 0600-0745 and 1300-1430 on 15340. (Ibid Media Broadcasting Schedules October 14th)

Jonathan Marks recently interviewed author

Doug Boyd:

DB: There is something in the Arab character which is fairly receptive to clandestine radio stations. I'm always a little awkward in talking about this, because I'm not a linguist and not an anthropologist. But there is in the Arabic society, in the Arabic language, the discussion and perhaps the embellishment of what we would call facts. So when you are talking to your friends late at night, it's a very different conversation than we might have in the west. Then one talks about, oh, maybe, conspiracy theories and things that are going on that actually might, to the Western mind, sound a little bit bizarre. But this is part of the national character of talking about these things. So you can imagine that a clandestine broadcast could be very helpful in planting the seeds of ideas. What you don't find, in my opinion, is clandestine broadcast listening, historically in the Arab world. It's not as though there are people like you and me with shortwave radios dialing around listening for the latest broadcasts. But these [clandestine] broadcasts have been targeted for a number of years at certain groups. What we find is that, as the 60's turned into the 70's and the 70's turned into the 80's, it became easier to operate clandestine stations. An individual can still go to Italy and buy a radio station in a suitcase. But in fact most of the clandestine broadcasting in the Middle East from the 70's on is done by governments, using established authorities to do it. Of course that depends on what you mean by a clandestine radio station. There are so many definitions that we have that probably originate from WW II. In the Middle East there is a very different definition. Most people know where these are, and from which transmitters, and what groups are supporting them.

JM: And in some cases, the name of the station is changed to suit the message. During the Gulf War in early 1991 Iraq had a whole string of programs, each of which sounded like another radio station. Take Voice of the Holy

War, beamed to South Asia.

DB: Iraq in the 1960s, under the Qassem regime, after the royal family was overthrown in 1958, also became interested in radio, in what I would call the Egyptian sense. The Iraqis---once again, I am a little hesitant to characterize people---the Iraqis are, as a country, rather gifted at the use of the Arabic language. They are very, very clever radio and TV people, with a rich history of literature from which to pull. So the higher-power radio stations that Egypt developed really became something that the Iraqis were very interested in fairly early.

JM: 1979 was an important year, when Egypt signed an agreement with Israel. The Arab League moved to Tunis. Saddam Hussein headed a movement called "the Rejectionists," which tried to rally support against the peace accord. Iraq started having better relations with the west as well. Oil prices were up, and Iraq was making money. Most of the revenue, of course, was being used for military purposes.

DB: On the information side, Iraq started building what may still be one of the largest radio transmitter complexes in the world, medium wave and high-powered shortwave transmitter. You can see in the early 80's the development of the broadcasting infrastructure

to broadcast to other countries.

JM: Listening to a foreign-language service is not always representative of what listeners are hearing on a domestic service. Take the situation during the Gulf War again, when we had the Radio Baghdad service aimed at U.S. troops trying to persuade them to go home. It wasn't typical. Baghdad's rich media tradition has obviously been as a result of the Arabic

services out of Baghdad.

DB: Oh, absolutely, yes. I think they're very uncomfortable in broadcasting in foreign languages. The Arabs in general have never done what we have done in the West: to find citizens of other countries to come for short periods of time, or recent citizens of our own country whose native language was, for example, Arabic, to come in and develop the programs. The Iraqi interest building up to the Gulf War was in Arabic. They had a kind of French broadcast, and they broadcast in Hebrew. I don't think they really fooled themselves that these were winning converts and otherwise explaining the Iraqi position. They knew that wasn't the case. This buildup was to communicate with Arabs because Mr. Hussein wanted to, and probably still has some odd hopes of being, the Abdel Nasser of the 1990's, which of course will not happen. So this huge complex of medium wave and shortwave transmitters was all arranged to broadcast primarily in Arabic and Farsi, to the "enemy" during the 1980s in the Iraq-Iranian war. It's primarily a regional service. The equipment was absolutely there to do it. (Media Network October 7th via Mike Fern)

WESTERN HEMISPHERE Below are the latest times and frequencies for the various Cuban exile programs sponsored by Radio Miami International. All dates are UTC and I have marked the new programs with an "N". 0000-0030 Mondays Cuba 21 7355

0000-0500 Tuesdays-Saturdays La Voz de la

Fundacion 9495

0030-0100 Mondays Mov. Nueva Generacion Cubana (N) 7355

0100-0200 Mondays Voz de la Democracia Cristiana 7355

0200-0300 Tuesdays-Saturdays La Voz de la Unidad Cubana 7355

0800-0900 Mondays-Fridays La Voz de Alpha 66 7355

1000-1300 Mondays-Fridays La Voz de la Fundacion 9850

2100-2200 Sundays La Voz del Caribe (N) 15675

2330-0000 Sundays Voz Ex-Presos Politicos Cubanos (N) 7355

2300-0000 Mondays La Voz de Alpha 66 945 (RMI press release October 21st)

Radio 16 Desanm The final transmission of this station of the Haitian government in exile was to have been October 29th according to the above press release as President Aristide was to have returned to Haiti on the 30th. Time will tell. (HJ) The station's latest is: 1100-1300 Sundays and 2200-2300 Mondays to Fridays. (RMI press release October 21st)

COLOMBIA - Emisora Meridiano 70 4925 A report sent to the listed address of Apartado Aereo 18227 in Arauca was returned as undeliverable. (D'Angelo Numero Uno No. 1240 October 8th)

Radio Macarena (Correction to October LN) is now an affiliated station of Cadena Radial Autentica. (Takayuki Inoue Nozaki October 23rd)

COSTA RICA - The winter schedule for Radio Exterior de Espana's relay base in Costa Rica is as follows: 0100-0400 ex Sundays on 5970, 11815 and 15380. Mondays thru Fridays 1100-1400 on 5970, 11880 [sic] and 15125. Mondays thru Fridays 1800-2400 and Saturdays and Sundays 1300-0100 on 9745, 17870, and 17890. The target areas are Central and South America and all broadcasts are in Spansish. Some of these frequencies are used at other times of day by transmitters in Spain, which has caused confusion among listeners. The Costa Rica station has a direct fax number for reception reports: +506 25 29

38. (Andy Sennitt on Media Network

September 23rd via Mike Fern)

AWR-Cahuita This station has been experiencing transmitter problems associated with low output harmonic radiation, and off-channel operation. Four of the transmitters have been returned to the manufacturer, Elcor, in San Jose, for modification. These units will go back two at a time, the first two to be modified are those operating on 5030 and 6150. When they are reinstalled, the txers on 9722.5 and 13750 will receive the same modifications. Unannounced tests transmissions were recently conducted at low power on 15460, which were heard in various places. (Adrian Peterson Australian Dx News October).

DOMINICAN REPUBLIC - Onda Musical 4779.9 This station, listed as only being on 1150 mediumwave in the 1993 WRTH was heard testing in late September between 2300 and 0100 hours. The station signs off and on suddenly and the co-channel utility station does not help matters. Best reception was on September 23rd when several canned mentions of Onda Musical were heard. Time checks were UTC -4 that is, this nation's time zone. (Dave Valko/HJ joint effort) Regular transmissions began in the middle of October. (HJ) The station signs off at 0300 with anthem. (Terry Krueger October 19th) Roger that, heard with call letters at this time. (HJ) Signs on at 2330 and best time to get an id is between 25-28 and 55-58 past the hour when the utility stations take a break. They said that they were broacasting a special transmission to North. Central and South America. (Ed Rausch ANARC SWL net October 24th) Guess what, I thought this was a new station but it is actually a long term reactivation. (HJ) This station used the above frequency among others between 1955-1980 with between 200 watts and 1 kW. (Adrian Peterson Radio Nuevo Mundo No. 185 October 8th)

ECUADOR - Ecos del Oriente 3270.1 Has reactivated. First heard signing on at 1017 on September 16th. (Delibert, Orr Fine Tuning No.

707 September 27th)

La Voz del Rio Tárqui 3285.3 A verification signed by Alicia Pulla Celleri has been received via the address in the 1993 WRTH. The slogan of the station is La nueva imagen de la radio, 24 horas de compania. They are now using a new transmitter with an output of 4 kW. (Takayuki Inoue Nozaki Relampago Dx Logging No. 22 August 28th-September 6th)

Radio Federacion Shuar 4785.8 Operated here briefly in the middle of July before returning to 4960.9 (Klemetz WRTH LA-NL No. 7 August 7th via Play Dx No. 758 October 3rd) This is probably the unid Ecuadorian listed

in last month's LN. (HJ)

Sistema de Emisoras Progreso 5060.5 Seemingly has a new transmitter since the start of June. (ibid)

HCJB on 6050 heard in mid-September carrying the international service in Spanish parallel 11960 and 15230 after 0000. When sunspot numbers were higher, 6050 carried the home service in Spanish and Quechua parallel 3220. (Mike Fern)

ETHIOPIA - Voice of Ethiopia 7110 Heard signing on at 0359 rather than 0400 with their distinctive "Jack in the Box" interval signal. (Brian Alexander September 26th)

GABON - RDT Gabonnaise 4777 Has apparently improved its transmitter as it is now heard with much better reception and modulation. Try shortly before 2300 sign off (Stephen Price October 3rd)

Africa Numero Un 15475 Was heard with English news at 1850 on Tuesday, September 21st. (D'Angelo Fine Tuning No. 708 October

6th)

GAZA and JERICHO - Jordan is ready to train radio engineers and technicians for this new nation. (BBC Summary of World Broadcasts World Broadcasting Information No. 41 October 8th) A radio station is to be constructed in Ramallah. (ibid No. 43 October 22nd)

GERMANY - Deutsche Welle has rescheduled its evening English broadcast to West Africa at 2100-2150 (formerly 1900-1950.) The frequencies announced September 29th were 9690, 9715 and 15425. 15425, which announces its location as Rwanda in French after the buzzer at 2100, has an excellent signal in California, it overrides the Radio Moscow World Service in English for the Far East outlet on the same frequency. (Mike Fern September 29th)

Jonathan Mark brings us up to date on

changes at Deutsche Welle:

JM: A reformation at Deutsche Welle is already under way. The Administrative Council and Broadcasting Council at DW have been examining a 'reform paper' which looks like a cut of 350 jobs in production and foreign language broadasting and closer cooperation with the domestic services APD and ZDF. By 1996, 1800 people will be working at DW's production centers in Berlin and Cologne. (Wolfgang Pleines?) is head of DW's transcription service in Cologne. He explained the background:

Has the Broadcasting Council fully approved

their new mission statement?

WP: Well, that has gone through, but only in part. We do not talk about giving up languages, but about putting these languages to a test. When the supervisory bodies of DW

met on 9/24, they decided on the following: We accept that DW has now, after the inclusion of Deutschlandfunk [DLF, MW broadcasts to Europel around 40 foreign languages, which is a little too much because the number of transmitters has more or less remained the

So we have to put to the test the following languages in the future: Above all the Scandinavian languages, then of course Dutch. French, Italian and Greek as well as Japanese. The Broadcasting Council said it will have to be tested whether these broadcasts meet with sufficient acceptance by the audiences. These language services will now have the chance and the task of finding appropriate audiences all round the globe in order to justify their existence.

JM: With the exception of Japanese, all the languages you mention are European, formerly with DLF, on medium wave. So what's the

problem?

WP: The mediumwave transmitter they used in the past will be switched off by the end of 1993, as it has become too costly to operate. So European languages will have to rely heavily on satellite transmission and on rebroadcasting.

JM: So in the case of the Dutch service, DW will have to find stations in Holland

willing to rebroadcast it.

WP: Exactly. That's the target.

JM: The Japanese programs will have to find their way onto cable systems in Japan, and might also be distributed in Europe when and if digital audio broadcasting gets going. The language services mentioned above will also have their transmission time limited to just 30 min a day, so they face a very difficult task to establish a satellite-only service within just two years, and then prove they have an audience. Are shortwave services being trimmed too?

WP: Yes. The broadcasts in Slovak, Czech, Slovenian, Macedonian, Hungarian, Albanian, Amharic, Dari and Pashto will also be reduced to 30 minutes a day and also put to a test for the next few years, probably two years. It will be decided in 1995 whether these languages, the European languages and the languages I just mentioned will then be continued or discontinued.

JM: What about English?

WP: English, fortunately, will remain as it was, even more. They have decided on adding another broadcast for Europe, so another hour per day will be added. In the case of the Americas, it was also decided to increase rebroadcasting and to decrease transmissions on shortwave.

What about other languages on shortwave for which shortwave is a vital

method of distribution?

WP: The most important languages for further shortwave distribution are above all

English, because it's a world-wide language: then the African languages, Hausa, Swahili, Amharic, and of course Portuguese, English and French for Africa. This will also apply to the languages used in Asia, Hindi, Urdu, Bengali and Chinese.

JM: DW has been told to cut US \$11 million off its budget for the remainder of FY 1994. The total budget of DW is just over US \$300 million. (Media Network October 7th via

Mike Fern)

Radio Free Europe The Hungarian service of this station ended on October 31st. (David Walcutt October 25th)

GUAM - KSDA-Adventist World Radio plans to have a third 100 kW shortwave transmitter in operation in mid-1994. After testing is complete, KSDA will broadcast 273 hours a week instead of the current 235 hours. This additional time will be scheduled during prime propagation periods. AWR Asia is also upgrading its automation system. It will provide for automated operation of the transmitters and the input of programming by remote control. Digital recording and playback of programs on computer disks will also be added. (AWR Asiawaves, quarterly newsletter, via Bruce MacGibbon on Media Roundup September 26th via Mike Fern)

HAITI see CLANDESTINES WESTERN HEMISPHERE

HAWAII - KWHR This station will go on the air within the next few weeks according to a letter dated September 1993 from WHRI. (Marlin A. Field Öctober 20th)

HONDURAS - Radio Litoral 4830 This new station was heard at 1300 on September 11th. Id as "Radio Litoral, La Voz internacional de La Ceiba". Another announcement was "Atencion comerciantes en Bahia (Bahia Islands ?), Atlantida y todo el pais". (BM Shortwave Bulletin No. 1234 September 21st) This is the only log I have seen of this one. (HJ)

Radio Copan International has a new schedule, as from early October, on 15675: Mondays-Saturdays at 1400-1500 2100-2300; Sundays at 2100-2200. (Jeff White via World of Radio via Dave Clark's World Radio Report DX Ontario November)

INDIA - Unid Indian 3223 Perhaps AIR-Shimla with a new transmitter. Heard at 1330 with continous music on October 6th. (Foster OZDX No. 85 October)

AIR-Port Blair 4760 In spite of recent listed changes, this station was heard here on September 27th. Id as Akashvani kaye, Port Blair Centre He. (Dx Clusive No. 668 via Play Dx No. 759 October 11th)



English Language Shortwave Broadcast Schedules

November 1993

































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Contributions from NASWA members and broadcasters are welcome. Please fax, email or send schedules and other contributions by the monthly deadline of Monday before the last Saturday of the month. Broadcasters, please place us on your mailing list.

English Schedules

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Prepared 10/28/93 at 11:29 PM.

This month, thanks to Ed Evans (Christian Science Monitor stations), Dan Ferguson (VOA), Adam Lock (WWCR), Hans Johnson (MD), Jon Klinedinst (PA), Jonathan Marks (R Netherlands), Betsy Robinson (TN) and Andy Sennitt (WRTH).

Notes

Compilation of the schedule data is getting increasingly difficult. Radio Ukraine is one example of those stations that announce frequencies left over from the summer season; our observations are based upon parallel-frequency hunting with two receivers. Radio Prague is an example of stations that moved only some broadcast times around this year, compared to last year.

Conflicts abound. At 01 HCJB on long time 9745 suffers severe co-channel interference from Deutsche Welle to NAm, but I also found Radio Ukraine on 9745 under both HCJB and DW. All these are in English. At 02 Radio Norway opted for 6120 to NAm, but Radio Canada International via Sackville is on the same frequency also to NAm; there's no question as to who loses. Even with the new limited hours of broadcast the Christian Science Monitor stations have already issued three revisions to the new season's schedule, and the VOA has made a number of revisions as well.

Entries we don't trust in the accompanying schedules (but maybe they'll serve as a starting point for the hunt): China (some), Iraq, Namibia. The declining solar cycle affects our ability to validate some entries.

Miracles Department: Betsy Robinson actually received a rare printed Radio Finland schedule, and kindly forwarded it to us. CRI finally sent *The Messenger*; the July-August issue arrived October 15! The listings have

been modified based upon our monitoring, but we can't hear all the frequencies on all the releases.

Jon Klinedinst recently visited WINB and tells us that WINB is considering an antenna change, adding a broadcast to Mexico and possibly going 24 hours. Jon also wonders if anyone has heard WMLK lately? It's in our skip zone here in NJ.

The listings does not include BBC frequency data. There does not seem to be any changes to the standard BBC World Service frequencies to NAm. Our data is from the summer, and we've not yet been able to extract the winter schedule. I see no point in printing summer season information.

New Software Released...

A revision of our new version of our Schedules program has been released. The upgrade includes suggestions from Andy Sennitt and Michael Matus A "current broadcasts" option that shows all broadcasts on the air now additionally looks ahead to the next half-hour. A utilities stations' schedules module has been added. We use it to track press RTTY schedules and gray scale weather photo FAX broadcast times.

Our schedules software has matured over the years since its introduction in 1986. More information than can be published in the Journal is included. The data can be searched by country or transmission start time. The data files are continually updated. The entire files are posted on the Pics OnLine BBS and GEnie once or twice a week. If you have a PC-compatible with a fixed disk and modem, like what you see here and want more current information more quickly, please send for a catalog. In our opinion, using the PC software is easier and quicker than shuffling through paper.

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START							SCH	EDULE	S aven	ROSTRON					LAST
	Country	STATION	FREQUE	vCiE5									TARGET AREA	Notes	Update
0030 2400 2400	Canada Canada	R Australia CFCX CFRX	17750 6005 6070	15510	15365	15320	13605						As/Pac/PapNG Canada Canada	relay CFCF-600 relay CFRB-1010	10/09/93 01/27/92 01/28/91
2400 0200	China Costa Rica Cuba	China R Int'l R for Peace Int'l R Havana	9815U	9780 150300 6010			73750						wNAm/eNAm LAm/NAm eNAm		10/24/93 10/16/93 04/28/93 10/22/93
0030	Czech Ecuador Lithuania North Korea	R Prague HCJB R Vilnius R Pyongyang	9810 21455U 7150 15130	9405	7345	5930	5915						NAm Worldwide NA/Eu Am	Eng exc 90 min Tu-Sa	02/27/93 09/28/93 11/22/92
0030 0130	Norway Philippines	R Norway Int'l FEBC R Moscow Int'l	11925 15450 21690	9675	15425	12050	11860	9685	9620	7165	7110	5985	SAm/NAm seAs/India World Service	Mo anly Mo-Fr -02	09/22/93 10/08/93 09/29/93
1600 0230	UŞA	Spanish National Radio KTBN KVOH	9540 7510 17775										NAm eNAm CAm/Carib	Tu-Sa	10/03/93 09/25/92 05/30/93 06/16/93
0030 0100 0100 0030	USA USA	VOA VOA VOA VOA	15205 11695 17820 1260	15120 9455 17735	11580 6130 15290	9775 930 -15185	7405	5995 9770	7215	1575			Americas Caribbean eAs/seAs/Pac ME		09/03/93 09/03/93 10/13/93
0800 2400 0100	USA USA USA	WHRI WJCR WSHB/1	9495 13595 5850	7315 7490 5850								,	Carib/eNAm neNAm/Eu/ME/CA/SA eNAm/Carib	separate pgm 00-05	06/16/93 12/09/92 09/12/93
0200 0100 0030	USA	WSHB/2 WYFR	7395 6085										cAm/SAm NAm	Network Tu-Su	10/18/93 03/24/93
0100 0055 0430	Australia Australia Belgium Ecuador	R Australia R Australia R Vlaanderen Int'l HCJB		7370 174900	15510 15365 15155	15240 15320 9745	13605 15240	11880	11720				As/Pac/PapNG As/Pac/PapNG SAm/NAm NAm		06/16/93 10/09/93 09/11/93 03/27/93 10/05/93
0127 0100	Netherlands Netherlands Sweden	R Netherlands R Netherlands R Sweden	11655 9860 11650	9022 98400 7305 9695	6165	6020							NAm eNAm sAs LAm		09/17/93 09/17/93 09/24/93
	Venezuela	VOA R Nacional de Venezuela	15205	15120	11580	9775	7405	5995	1580	1530			Americas SAm	#7&8 nCAm news/Eng Tu-Su	09/03/93
0200 0200 0200 0130	Argentina Australia Australia Bulgaria Czech Germany	RAE R Australia R Australia R Bulgaria R Prague R Deutsche Welle	11710 17880 21740 9700 9405 9745	17750 17795 7455 7345 9700	15510 17715 5915 9565	15240 15365		11720 15240	6040				Americas As/Pac/PapNG As/Pac/PapNG NAm NAm	Tu-Sa	10/01/93 06/16/93 10/09/93 10/25/93 10/08/93 10/25/93
0400		R Iraq Int'i	17940	2.00		2245							NAm	News/EE 0230 irrag	07/25/93

START							SCH	IEDULES	8 87 81	MOSTROM					LAST
End	Country	STATION	FREQUE	encies									TARGET AREA	Notes	Update
0100 0400 0120 0200 0200 0130 0200 0200	Italy Japan Russia Russia Slovakia South Korea	R Iraq Int'l RAI R Japan AWR Russia R Moscow Int'l R Slovakia Int'l R Kores R Kores	15205 11800 17845 11855 15425 9810 15575 7550	9725 17810 9620 7310	6005 17775 7180 5930	15195 7165	11860 7110	11840					India/Pakistan NAm GOS:As nIndia World Service NAm Am	v Novosirbirsk	07/22/93 10/01/93 09/03/93 04/03/92 09/29/93 10/04/93 10/03/93
0200 0130 0200 0200 0300 0200 0200 1100 0600 0300 0130	Spein Switzerland Ukraine USA USA USA USA USA USA USA USA USA USA	s Notes Spanish National Radio Swiss R Int1 R Utraine Int1 VOA VOA WEWN WSHB/1 WWCR WWCR WYFR R Tashkent	9540 17740 17690 15205 21550 13710 5850 7435 5810 15440 11975	9885 17605 15120 17740 9505 9755	6135 9860 11580 15250 6085 9740	9745 9775 11705	9685 9455 9740	9505 7405 7651U	7240 6130 7205	7195 5995 7115	6070 1580	4825 1530	NAm NAm/CAm NAm/Eu Americes sAs India cNam Eu/ME/nAf NAm As	as obs #9&10 nCAm "Program C" bx #1 bx #3 #2&3 Network Tu-Su prob changed since 1	10/03/93 09/27/93 10/17/93 04/24/93 09/24/93 09/12/93 10/28/93 10/28/93 10/26/93
0130 0130 0200 0200 0200 0140 0227 0200 0145	Yugoslavia Albania Austria Austria Greece Netherlands Sweden	R Yugoslavia R Tirana ORF ORF V of Greece R Netherlands R Sweden	9580 11840 9655 13730 11645 11655 11695	9580 9870 9420 9860 9695	9380 9845								eNAm NAm NAm LAm NAm sAs As/Pac	may move to 6190 News/Eng	10/25/93 10/27/93 09/25/93 09/25/93 06/12/93 09/17/93
0400 0300 0300 0300 0400 0330 0250 0300 0315 0230 0255 0300 0255	Australia Canada Canada Canada Canada Cuba Egypt Germany Guarn Italy	Vatican Radio R Australia R Australia R Australia R Canada Int'l R Canada Int'l R Canada Int'l R Havana R Cairo R Deutsche Welle KSDA Italian Radio Relay Serv R Norway Int'l R Mossow Int'l V of Free Chrna v of Free Chrna	9650 21595 21740 11845 11940 13660 11600 7125 7165 11940 15425 11740 15345	7335 21525 17795 9755 11845 11845 6010 9475 11865 6120 11830 9620 9680	17880 17715 6120 9535 9535 9745 9570 7180 5950	17750 15365 9565 9510 7165	11880 15320 7355 6155 7130	11720 15240 7285	6120	6035	1548		As/AusNZ As/Pac/PapNG As/Pac/PapNG NAm LAm Carib cNAm/eNAm NAm sAs China NAm NAm NAm World Service NAm Jap/Kor	Sa-Su Mo only	09/12/93 10/09/93 10/09/93 09/28/93 09/28/93 09/28/93 07/25/93 10/25/93 04/04/92 09/11/93 09/22/93 09/22/93 10/09/93 10/09/93

Start							SCH	EDULE	5 87 51	mosinom				Last
End 0200	Country	STATION	FREQUE	NCIES								TARGET AREA	Notes	Update
0300 0300 0300 1400 0230 0300 0300	Taiwan USA USA	V of Free China V of Free China V of Free China KCB! VOA VOA WSHB/1 WSHB/2 R Yugostavia	9765 11860 11740 9815 15205 930 5850 7395 9580	15120	11500	9775	7405	5995				AusNZ Malay/Viet/windon CAm NAm Americas Caribbean wNAm Mex wNAm	Tu-Sa may move to 6190	10/09/93 10/09/93 10/09/93 09/12/93 04/24/93 04/24/93 10/18/93 10/25/93
0245 0327	Portugal	R Tirana R Netherlands R Pakistan R Philipinas R Portugal R Sweden	11840 11655 21730 21580 11840 11650	9580 9860 17725 17840 9705 9695	9845 17640 17760 9600	15115 9570	9545					NAm sas saseas eas Sam/Nam Nam	Slow-speed news Tue-Sat	08/11/93 09/17/93 04/07/91 08/27/91 10/04/93 09/24/93
	Vatican State	Vatican Radio	9605	7305								NAm		09/12/93
0400 0400 0400 0400 0355 0330 0350 0425 0400 0400 0400 0500 0455 0400 0400	Canada Canada Canada Canada China Czech Germany Guatemala Honduras Hungary Japan Japan Japan Japan Japan Japan Sepan Japan Jap	Australian Armed Force R Canada Int'l R Prague R Deutsche Welle TGNC HRPC R Budapest R Japan R Jap	9755 9725 9725 17715 9810 9640 3300 15220 15225 17810 9610 11530 6115 7295 9730 5680 15345 9765	19038U 6010 6010 6010 9780 9405 9545 11910 15230 15210 5960 7180 5960	9690 7345 9535 9835 11885	5930 6120 5970 7130	5915 6085 5940	6045				Cambodia/Somalia NAm LAm Carib wNAm/eNAm NAm NAm Am NAm Reg Svc:NAm/Hawaii GOS:As GOS:NAm ME wNAm World Service e&cAl/sAl Domestic NAm Jap/Kor AusNZ	Su-Mo M-F (Sa/Su -07) Univ Mo only	06/18/93 09/28/93 09/28/93 10/24/93 10/22/93 10/25/93 12/23/87 02/29/92 10/01/93 10/28/93 09/03/93 10/28/93 09/23/93 09/23/93 10/15/93 05/03/93 10/15/93 10/09/93 10/09/93 10/09/93
	USA	V of Free China V of Turkey VOA WEWN WINB	11745 9445 11965 7425 15145	9885	9575	7405	7280	7265	7105	1530	621	eIndon/Phil NAm Africa NAm SAm	*Program A* We-Mo	10/09/93 03/22/93 09/24/93 09/11/93 12/23/92

START							SCH	EDULES	BY 888	IDSTROM					LAST
	COUNTRY	STATION	FREQUE	ncies								•	TARGET AREA	Notes	Update
0300	COUNTRY	JIATION	1 McGac	10103											
0400	IISA	WSHB/1	5850										NAm		09/12/93
	USA	WWCR	5935										Eu/ME/hAf	tx #2	10/28/93
0500		WYFR	9505	6085									NAm	Network Tu-Sa	03/24/93
0315	OUN	*****	,,,,,												
	Vatican State	Vatican Radio	11625										eAf		04/20/93
0330	Addom Louto	7000017000													00.000.000
	Austria	ORF	13730	9870									LAm		09/25/93
0427	Netherlands	R Netherlands	9590	6165									wNAm		03/14/93
0400	Sweden	R Sweden	11650	9695									NAm		09/24/93
	United Arab Emir	R Dubai	21485	15400	13675	11945							NAm		07 <i>/</i> 27 <i>/</i> 93
0340	OTHEOG PT COM														0011000
	Greece	V of Greece	11645	9420	9380								NAm	News/Eng ex Su	06/12/93
	Venezuela	R Nacional de Venezuela											\$Am	news/Eng Tu-Su	06/06/91
0345	10102300														40.07.00
	Armenia	R Yerevan	17690	17605	10344U	7105							NAm		10/27/93
0400	7 g ti i igi wa													*****	10/09/93
	Australia	R Australia	21595	21525	17880	11880	11720						As/Pac/PapNG	#283 Eng SaSu 04-05	
0530	Australia	R Australia	21740	17795	17715	15365	15320	15240					As/Pac/PapNG		10/09/93 09/28/93
0430	Canada	R Canada Int'l	9670	9505	6150	_							ME		03/21/93
	China	China R Int'l	11840	11680		-							wNAm		
0500	Cuba	R Havana	13660	6180	6010								cNAm/eNAm	#1 -0430	04/28/93
0430	Czech	R Prague	13715	9810	9405	7345	5930	5915					NAm		10/22/93
	Germany	R Deutsche Welle	9765	9565	7275	7225	7150	6065	6015				e&c&sAf		10/25/93
	Namibia	Namibian B/C Corp	3290	3270										nx/English	12/27/92
	North Korea	R Pvongyang	17765	15230	15180								seAs		07/15/90
	Romania	R Romania Int'l	11940	11830	9570	9510	6155						NAm		05/22/93
		R Moscow Int'l	12050	9580	7330	7295	7180	7165	7105	6165	5940		World Service	R Aum 0430-05	10/15/93
	Switzerland	Swiss R Int'l	9885	9860	6135								NAm		09/27/93 05/29/93
0800		KVOH	9785										CAm/Canb	Univ Network	
0430		VOA	9575	7405	7280	7265	1530	621					Africa		06/19/93
0500		VOA	1580	1530									nCAm	Tu-Sa	09/24/93
	USA	VOA	7170	6873L	6140	6040	5995	1260					ME/nAt/Eu		10/13/93
0500		WCSN	9840										Af		09/12/93
	USA	WMLK	9465											Mo-Sa	08/30/89
0700		WRNO	7395										NAm/CAm		10/28/93
	USA	WSHB/1	5850										eEu/CIS		10/18/93
0500		WYFR	11825										Eu/Af		10/08/93
0415	our	******													
0440	Italy	RAI	9575	7275									Mediterranean		07/23/93
0430	rmary														00.000.000
	Swaziland	Trans World Radio	7215										cAf		09/02/93
	Swaziland	Trans World Radio	5055										sAf		10/08/93
0500		VOA	9575	7405	7280	7265							Africa		09/24/93
0500		VOA	7170	6873L	6140	6040	5995	1548	1260				ME/nAI/Eu		10/13/93

START							SC	HEDULE	: e .							
End 0445	COUNTRY	STATION	FREQU	ENCIES						1 1 3 U H B 1				TARGET AREA	Notes	Last Update
	Sri Lanka	SLBC	15425	9720										wNAm	Tu	03/26/92
0630 0700 0700 0550 0515 0600 0600 0600 0700 0653 0600 0755 0600 0530 0600	Cube Cube Cube Cube Cube Cube Cube Cube	R Bulgaria R Hawana HCJB R Deutsche Welle Kol Israel R Japan R Japan R Japan R Namibia V of Nigeria R Moscow Int1 FEBA Channel Africa Radio Oranje Spanish National Radio Swiss R Int1 R Thailand VOA	11720 9510 21455 9670 11605 17810 11885 7230 3270 7255 7330 17750 11745 7270 9540 9535 11905 15600 15205 9840	9700 J 11925 9565 9435 15410 9610 6085 7295 7230 6165 9655 12080 11825	6120 11740 6025 7180 3985 4830 9665 9700	5960 7165 7405 9530	7105 6035 7170	5940 6873L	614	40 6	040	5995	792	NAm/Eu wh/Am NAm NAm NAm/WEu GOS:As GOS:NAm GOS:Eu wAf World Service ME wAl/sAf Domestic NAm Eu seAs Africa ME/PAd/Eu Af	Sulper MN 2-14-91 Fr	10/25/93 12/11/92 03/21/93 10/25/93 09/25/93 09/03/93 10/02/93 03/14/91 07/23/91 09/24/93 10/15/93 09/24/93 10/08/93 09/24/93 09/24/93 09/24/93 09/24/93
0530 0600 0600 0600 0600 0550 0600 0555 0600 0835 0600 0600 0555 0600 0600 0555 0600 0600 0755 0600 0755 0600 0755 070 070 070 070 070 070	USA Australia Australia Australia Austria Austria Austria Austria Austria Austria Rinland Italy Romania Russia Swazitand Unted Arab Emir USA Malaysia Australia	Trans World Radio R Dubei VOA VOA V of Malaysia R Australia	5985 11580 15090 21595 21740 6015 13730 15410 11755 12060 11740 21700 15205 792 15295	17830 11825 9750 21525	9695 11880 17715 17720 15435 9700 6175 17880	15360 9530	15320 15340 7170	15240 6873L	614	0 60		5995	3980	AWM EU/AI e&&AI As/Pac/PapNG As/Pac/PapNG NAm EU ME ME/EAI EU/AI/ME AI neEu Cape seAs/Aus ME/nAI/Eu Aus/NZ/Indonesia As/Pac/PapNG	v Ekaterinoburg	10/08/93 10/08/93 10/08/93 10/09/93 10/09/93 10/09/93 09/25/93 09/25/93 10/16/93 10/17/93 10/01/93 09/02/93 09/24/93 09/24/93
0700 / 0630 (Australia Canada	R Australia R Canada Int'I	21740 9760	17715 7155	15365 6150	15320 6050	15240	9710						As/Pac/PapNG Eu	#6 0630- M-F	10/09/93 09/28/93

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10/01/93

Su | News/English

9

0815 Croatia

Croatian Radio

13830

13640

9830

5920

- 1

START							SCH	EDULE	S BY S	DESTRON		TARGET AREA	Notes	LAST Update
	Country	STATION	FREQUE	NCIES								TARGET MICH	MOTES	•
0900	Austria Austria Netherlands Slovakia	ORF ORF R Netherlands R Slovakia Int'l	13730 17870 9720 21705	6155 15450 17535	15605	11990						Eu Aus/As Pacific Aus		09/25/93 09/25/93 09/17/93 10/04/93
	Guam	KTWR	11805									sPac		10/12/93
1000 0955 0930 0950 1200 1000 1000 1230 1000 1000 1000 100	Japan Japan Japan Lebanon N Mariana Is N Mariana Is Palau Russia Russia Russia Russia Russia Russia Vitzerland USA USA	Australian Armed Forces R Australia China R In/1 R Finland R Deutsche Welle R Deutsche Welle Italian Radio Relay Serv R Japan R Japan R Japan King of Hope KHBI/1 KHBI/2 KHBN R Moscow In/1 Swiss R In/1 WEWN WSHBI/1 WSHBI/1 WSHBI/1	21745 17710 17800 21600 21680	20419U 15170 15440 15330 17800 21650 11815	13605 11755 15410 17820	9580 9565 17780 9750	9510 11715 9610 15380	6080 6160 15345	15210	15190	15175	Somelia/Cambodia As/Pac/PapNG aPac eAs/Aus e&c&sAf As/Pac Eu/nAt/ME GOS:As Reg Svc:Oc ME Japen/Kor/CIS Aus World Service World Service World Service World Service Aus/NZ UK Aus/NZ CSAm	Sa -0925 M-Fjirregular M-F M-Sa 17m 19m 22m 25m *Program C*	06/18/93 10/09/93 08/26/91 10/16/93 05/22/93 08/15/93 09/11/93 10/28/93 09/12/93 09/12/93 09/28/93 09/28/93 09/28/93 09/28/93 09/28/93 09/28/93 09/28/93 09/28/93 09/28/93 09/28/93
0903	Croatia	Croatian Radio	13830	13640	9830	5920							News/English	10/01/93
0910	Mongolia	R Ulan Bator	12015	11850								Oc		10/09/92
0930 1027	Netherlands Philippines	R Netherlands FEBC	9865 11690	9810	9720	7260						FE & Pacific China/seAs		09/17 /9 3 10/08/93
0940 0950	Greece	V of Greece	17525									Aus	News/Eng	04/23/93
	Armenia	R Yerevan	15510	15485	15455							Eu	Su	10/27/93
1025 1055 1200	Australia Belgium China Guam India	R Australia R Vlaanderen Int'l China R Int'l KHBN AIR	21745 21815 17710 9820 21735	15170 17515 15440 17895	9580 9905 11755 17387	15050						As/Pac/PapNG Al/Eu aPac China GOS/naAs/AusNZ	M-Sa	10/09/93 09/11/93 08/26/91 03/17/91 04/23/93

START															Last
	Country	STATION	FREQUE	INCIES									TARGET AREA	Notes	Update
1100 1100 1100 1100 1030 1100 1100 1100	Russia Russia Russia Russia South Africa USA	AWR Europe KHBI/1 KHBI/2 V of Nigeria R Nonway Int'l R Moscow Int'l R Moscow Int'l R Moscow Int'l R Moscow Int'l R Moscow Int'l R Moscow Int'l Channel Africa VOA	7230 13625 9430 7255 21705 17760 15470 13650 12070 9780 17805 15120	17840 17725 15440 12020	17675 15435 11900	15380 11710 7405	15345 930	15280	15210	15175	15130		Eu/nAI/ME Indon China wAI wAI/Eu World Service World Service World Service World Service World Service World Service Caribbean	Su only 17m 19m 22m 25m 31m	10/27/93 09/12/93 10/18/93 07/27/93 09/28/93 09/28/93 09/28/93 09/28/93 09/28/93 09/28/93
1200 1100 1100 1025	USA USA	VOA WHRI WSHB/1 WSHB/2 WYFR V of Vietnam	15425 9850 7465 7395 5950 15009	11720 7315 7465	5985								Pac Carib/eNAm eNAm/Carib SAm NAm Eu	seperate pgm Network M-Sa	04/24/93 06/16/93 10/18/93 10/18/93 03/26/91 11/07/89
1003	Croatia	Croatian Radio	13830	13640	9830	5920								Su News/English	10/01/93
1100 1127 1059 1130 1055	Netherlands South Korea	ORF ORF R Netherlands R Korea SLBC R Dubai	13730 17870 9810 11715 11835 21605	6155 15450 7260	15320	13675							Eu Aus/As FE eNAm Aus Eu/nAf	Mo-Sa Mo-Sa 10/31->9650	09/25/93 09/25/93 09/17/93 10/03/93 01/10/93 05/06/91
1040 1050	Greece	V of Greece	17525	15650									Japan	News/Eng	10/09/92
1300 1150 1130 1130 1200 1200 1200 1150 1120 1200 1200 120	israel	R Australia AWR LAm R Deutsche Welle Kol Israel Kol Israel R Japan R Japan R HSI/2 R Pyongyang R Pakistan R Moscow Int'i R Moscow Int'i R Moscow Int'i R Moscow Int'i R Moscow Int'i	15630 11870 21600 17575 15650 15445 6120 9430 11335 21520 17880 15585 13650 12070 9780	9875 17800 15640 9610 9977 17595 17805 15550	13605 5030 17765 6576 17780 15525 12010	9580 15410 17760 15480 11900	9560 15370 17725 15470 11710	17675 15440	17625 15435	15380	15345	15210	As/Pac/PapNG LAm wAr wEu Aus/As GOS:As GOS:NAm Aus Arm wEu World Service	Slow-speed news 17m 19m 22m 25m 31m	10/09/93 09/05/93 10/25/93 08/29/93 08/29/93 10/28/93 09/03/93 09/12/93 12/02/90 03/16/91 09/28/93 09/28/93 09/28/93

START							SCI	IEDULI	S sys	UNDSTROM			LAST
End 1100	COUNTRY	Station	FREQUE	NCIES							TARGET AREA	Notes	Update
1200 1130 1130 1145 1200 1200 1200 0100 1200 1115	USA USA	Channel Africa Infl Red Cross Swiss R Infl Swiss R Infl VOA VOA WSHB/2 WWCR WYFR Voticen Radio	9730 7210 15505 9535 15120 15425 7395 15685 7355 21655	13635 6165 11915 15160 5950 15210	9885 9590 11720	7405 9760 7250	6110	5985			cAf Eu FE/seAs Eu Caribbean eAs/seAs/Pac CAm/SAm Eu/ME/nAf NAm Eu	tx #1 Network M-Sa M-Sa	03/02/93 09/21/91 09/27/93 09/27/93 09/03/93 10/18/93 10/18/93 10/08/93 09/12/93
1227	Bulgaria Czech Ecuador Iran Netherlands Thailand	R Bulgaria R Prague HCJB V of Islamic Rep of Iran R Netherlands R Thailand	13645 15355 21455U 11930 9650 11905	11645 11990 17890 11790 5955 9655	9505 174900 11715 4830	7345 15115 9685	6055 11925 9525				Eu/ME/NAm Eu NAm/SAm ME/seAs/Ind/seAf/Aus Eu seAs	#4 -1430	10/25/93 09/12/93 05/06/93 10/04/93 09/17/93 07/29/89
	Venezuela	R Nacional de Venezuel	a 9540								SAm	news/Eng M-Sa	06/06/91
1300 1230 1320 1255 1255 1255 2115 1300 1300 1300 1300 1430 1300	Australia Australia Brazil Brazil China China Italy Jordan Mongolia N Mariana Is N Mariana Is Norway Palau Russia Russia Russia Russia	Australian Armed Forces R Australia R Nacional de Brasil China R Int'l China R Int'l Italian Radio Relay Serv R Jordan R Jordan R Ulan Bator KHBI/2 R Norway Int'l KHBN R Moscow Int'l	15630 15445 15210 11660 15440 7125 9560	9710 9715 11795 11850 21705 17805 15540 15345	9580 17780 15525 15320	7240 17760 15495 15260	17725 15480 15190	17675 15465 15175	17625 15440 15120	15435	Cambodia As/Pac/PapNG NAM/CAm eNAm eNAm saAs sPac Eu/nA/ME wEu/NAm FarE saAs Aus Aus/As World Service World Service World Service	M-F Mo, Th, Sa Su only M-F (Sa 1230-) 13m 17m 19m > 15.4 MHz 19m < 15.4 MHz	09/04/93 10/09/93 10/09/93 06/18/93 06/18/93 06/18/93 10/01/93 10/01/93 09/12/93 09/12/93 09/22/93 09/28/93 09/28/93
1300 1300 1300 1300 1230 1230	Russia Russia Russia South Korea USA USA USA	R Moscow Int's R Moscow Int's R Moscow Int's R Moscow Int's R Koree VOA VOA VOA VOA WOA Europe WSHB/2	13650 12070 9780 9640 930	12055 9705	12025 12025	12020 9760			11710		World Service World Service World Service World Service GOS Caribbean eAs/seAs/Pac Eu Mex	22m 25m 31m	09/28/93 09/28/93 09/28/93 10/03/93 04/24/93 09/03/93 04/24/93 10/18/93

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	Country	Station	FREQUE	ncies			301	ILDULLS	D T SURUS I ROM	TARGET AREA	Notes	Update
1500 1700 1400 0300 1400	USA	WEWN WEWN WHRI WSHB/1 WWCR WYFR	9350 17535 15105 7465 13845 13695	9465 7465 11970	11830	9750	5950			NAm eAf Carib/eNAm Mex/wNAm Eu/ME/nAf NAm	"Program A" "Program B" seperate pgm 16-17 tx #2 #18385 Network M-Sa	09/11/93 09/11/93 06/16/93 10/18/93 10/28/93 10/08/93
1302 1502 1303	USA	WYFR	11550							india		11/03/92
	Croatia	Croatian Radio	13830	13640	9830	5920					News/English	09/24/93
1400 1355 1500	Austria Belgium Bulgaria	ORF R Vlaanderen Int'l R Bulgaria	15450 21810 11630	17555						As seAs/NAm FE	Su	03/23/93 09/11/93 10/25/93
1400 1500	Canada Finland India Netherlands	R Canada Int'l R Finland AIR R Netherlands	9535 17740 15120 15530	6150 15400 11760 13700	9895					As NAm GOS/seAs sAs	Mo-Sa	09/28/93 09/25/93 11/10/92 09/17/93
1400 1355 1400 1355 1355	Sweden United Arab Emir USA Uzbekistan Vietnam	R Sweden R Dubai VOA R Tashkent V of Vietnam	17740 21605 15425 17745 15009	15240 15395 15160 15220 9840	15320 9760 9540	13675 6110 5945				NAm Eu/nAf eAs/seAs/Pac As eAs	not sure abt #4	09/24/93 07/28/93 04/24/93 10/26/93 11/07/89
1345	Yugoslavia Vatican State	R Yugoslavia Vatican Radio	11835 17525	15090						Aus As/AusNZ		10/25/93 01/17/93
1425 1700 1700 1455 1455 1500 1600 1425 1425 1500 1500	Australia Belgium Canada Canada China China China Iraq Israel Israel Israel Japan Japan Malta Morocco	Australian Armed Force: R Vlaanderen Int¹ R Canada Int¹ R Canada Int¹ China R Int¹ China R Int¹ China R Int¹ R France Int¹ R Iraq Int¹ Kol Israel Kol Israel R Japan R Japan R Jepan R TV Morocco	\$ 13599U 21810 17820 7405 15165 17650 15205 15640 15650 11915 11705 11705 1795	17555 11955 11815 15405 9750 9535	12035 9535	11910				Somalia seAs/NAm NAm Carib wNAm sAs As/ME India/Pakistan wEu/NAm Aus/As GOS:As GOS:NAm Eu/ME	M-Sa Su Su may be 11855	06/18/93 09/11/93 09/28/93 09/28/93 10/25/93 06/18/93 10/22/93 07/22/93 08/29/93 10/28/93 10/28/93 09/05/93
1500 1800		KHBI/1 R Moscow Int'l R Rwanda R Korea	9530 21785 9610 6135	17780 5975	17760	15540	15440	15380		India/China World Service Regional GOS	also Swahili	09/12/93 10/02/93 09/24/93 05/09/93

START							SCH	EDULE	9 8758	HOSTAÖN		T	Name	LAST Update
	Country	STATION	FREQUE	VCÍES								TARGET AREA	Notes	Opdate
1400 2400 1430 1700 1430 1500	USA USA USA USA	KCBI VOA VOA VOA WSHB/1 WYFR	1548 15395 9455	15160 15205 11830	9760 9760 6015	9645 9645	6110 7125	1143 6110				Carib eAs/seAs/Pac ME sAs wNAm NAm	#1&2 Network M-Sa	09/12/93 09/24/93 10/13/93 09/24/93 10/18/93 10/08/93
1430 1600 1500 1500 1500 1527 1455 1500 1500	Australia Canada Canada Finland Netherlands Romania Sweden USA	R Australia R Canada Int'l R Canada Int'l R Finland R Netherlands R Romania Int'l R Sweden VOA	15325 15325 17740 15150 17720 17870	11660 15315 11935 15400 13700 15335 15240 15160 15205	9770 11935 9555 9895 11775 11705 9760	9580 11915 9760 9690	9510 9555 9645 9645	7260 6110 7125	7240 1143 6110	6080	6060	As/Pac/PapNG Eu ME NAm sAs As NAm eAs/seAs/Pac sAs	Sa -1455	10/09/93 09/28/93 09/28/93 10/16/93 09/17/93 05/22/93 09/24/93 09/24/93
1435 1445	Greece	V of Greece	17515	15630								NAm/Eu	News/Eng	10/01/93
1440 1455	Venezuela	R Nacional de Venezuel	a 9540									SAm	news/Eng M-Sa	06/06/91
1445	Mongolia	R Ulan Bator	13780	7260								sAs		10/09/92
1450	India	AIR	9950	7412								Home Svc	news/features	01/12/91
1550 1615 1600 1600 1600 1730 1600 1700 1550 1600 1555 1800 1530 1630 1530	USA	China R Intil R Deutsche Welle KTWR R Japan R Japan R Japan R Jordan KHBU1 V of Nigeria R Pyongyang R Moscow Intil FEBA Channel Africa R Omdurman Swiss R Intil VOA VOA	15165 17765 15610 11915 9535 15355 9560 9530 7255 17780 15330 11710 15240 9165 15505 15505 15395	11815 15145 9750 9977 17760 9810 7270 7200 13635 15205	9640 15550 9455 9700 9760	9735 9325 15540	7185 15440 1260 9645	15380	15345	13320		sAs s&c&eA/ME sAs GOS:As GOS:NAm GOS:SAI wEu/NAm India/China wAi Eu/ME/AI World Service As sAs wAi/e&c&sAi Regional s&sAs ME/nAi/Eu sAs eAi	We-Sa -1630 Su -1700 Mo-Sa (Intl Pgm)	06/18/93 10/25/93 10/12/93 10/28/93 10/28/93 10/28/93 09/03/93 09/12/93 09/12/93 10/15/93 10/15/93 10/13/93 10/13/93 09/24/93 10/13/93 09/24/93 10/13/93
1600 1600		MEMN	21710 17510									ME	"Program C"	09/11/93

Start							SCH	EDULE	S 27 21	HOSŤROM				Last
End	Country	Station	FREQUE	NCIES								TARGET AREA	Notes	Update
1700 1515	USA USA USA	WWCR WYFR WYFR	15610 17760 11550	11830	9705							Eu/ME/nAf NAm India	tx #3 #1&2 Network M-Sa	10/28/93 10/08/93 03/26/89
	Bulgaria	R Bulgaria	13670									CIS	may be 12085	10/25/93
1600 1600 1600 1540 1600 1627 1600	Austria Austria Greece India Netherlands Portugal	R Tirana ORF ORF ORF V of Greece AIR R Netherlands R Portugal VOA	9760 13730 9880 11780 17525 10330 15150 21515 15395	7155 6155 15650 9950 13700	15630 7412 9895	9760	9700	9645	7125	6110		Eu Eu ME As NAm/Eu Home Svc sas ME/FE sAs	News/Eng exc Su news/features M-F	10/01/93 09/25/93 09/25/93 09/25/93 10/01/93 07/11/92 09/17/93 10/04/93 09/24/93
1545 1600	Vatican State	Vatican Radio	15090	11640								As/AusNZ		09/12/93
1655 1630 1700 1650 1700 1800 1700 1630 1700 1700 1640 2400 1630 1700 1700 1700 1700 1700 1700 1700 17	Germany Guam Lebanon N Manana Is Pakustan Poland Russia South Korea Swaziland United Arab Emir USA	R Australia China R Int'I R Prague R France Int'I R Deutsche Welle KSDA King of Hope KHBUZ R Pakustan Polish Radio Warsaw R Moscow Int'I R Korea Trans World Radio R Dubai KTBN VOA VOA VOA WEWN WEWN WEWN WINB WRNO WYFR	11695 15130 15505 17850 17850 6280 13625 21495 9525 15380 5975 9500 21605 15590 17790 19379L 15395 13615 17510 17520 15420 21615 156090 15009	15395 15445 15205 15205	9580 11575 11990 17620 9665 17555 12045 15320 15410 9700 9760	.9510 7345 15530 9585 15555 9890 13675 15320 1548 9700	7260 6055 12015 7305 13665	7240 11975 7225 11570 13710 7125	11705 6170	6175 1548 11920	1530	As/Pac/PapNG e&sAfr EU/ME/IAI AI/ME/EU sAs India ME sAf e&seAf/ME EU World Service GOS eAf EU/nAf eNAm Africa ME/nAf/EU sAs NAm UK EU/Af NAm/CAm/EU EU/Af Af	Su Slow-speed news 1615 #1 annod as 11795 Sa-Su *Program A* *Program C*	10/09/93 06/18/93 10/24/93 10/25/93 10/25/93 10/25/93 10/25/93 10/24/93 10/24/92 10/23/93 09/29/93 09/02/93
1630 1800	Australia	R Australia	11880	11695	9770	9580	9510	7260	7240	6080	6060	As/Pac/PapNG		10/09/93

	START							SCH	IEDULE	5 BY SI	INDSTROM				LAST
		COUNTRY	Station	FREQUE	NCIES								TARGET AREA	Notes	Update
	1700 1657 1800 1830 2200 1700	Austria Canada Ecuador Egypt Liberia USA USA	ORF R Canada Int'l HCJB R Cairo ECWA VOA VOA	11780 9550 21480 15255 4760 17790 19379L	7150 214550 15445 15245	15410 15205	15320 11855	15255 9760	13710 9700	12040 6180	11920 1548	1530	As As ME c&sAf Regional Africa ME/hAl/Eu	Arabic Sa 1745/Su 17 Sa 16-2130 Su 17-21	09/25/93 09/28/93 05/08/93 06/16/90 09/25/93 09/24/93 09/30/93
		New Zealand	R New Zealand Int'l	9550									Pacific		10/17/93
	2200	South Africa	Radio Oranje	3230									Domestic		09/12/93
S-17	1755 1800 1730 1800 1800 1800 1800 1800 1713 1800 1750 1800 17730 2100 1730 2100 1730 1800 1800 1730 1800 1730 1800 1730 1800 1730 1800 1730 1800 1730 1730 1800 1730 1730 1730 1730 1730 1730 1730 17	Japen Japen Japen Japen Lebanon Morocoo N Mariana Is North Korea Palisitan Russia Russia Russia Russiand Switzerland USA	R Baltu China R Int'l KSDA AWR Europe R Japan R Japan R Japan V of Lebenon R-TV Morocco KHBI/2 R Pyongyang R Palidistan AWR Russia R Moscow Int'l Trams World Radio Int'l Red Cross Swiss R Int'l KVOH VOA VOA VOA VOA WHRI WHRI WHRI WWILK WYFR Trans World Radio R Sweden	13720 12050 11915 9535 17870 6549 17815 13625 13765 12060 12060 15385 9520 7210 17635 17775 17775 17779 930 19379L	11575 9750 9977 11570 9890 13635 15445 15205 13760	9570 9640 9550 9885 15410 9760 11855	9325 15320 9700 9700	13710 6040 9645	12040 792 7125	11920	1530		Eu e&sAir India/eAi Eu/na/IME . GOS:As GOS:NAm GOS:ME/na/I ME eAf Eu/ME/Af weu neEu world Service cAf Eu ME/Af CAm/Carib Africa Caribbean ME/na/IEu sAs Carib/eNAm/Eu Eu/nAf Eu/Af Eu/Af Eu/Af Eu/Af Eu/Af Eu/Af Eu/Af Eu/Af	News Sa v Samara Mo after last Su/mo Sa separate pgm Mo-Sa Su-Fr Mo-Sa	04/24/93 06/18/93 04/17/93 10/28/93 10/28/93 10/28/93 10/28/93 09/02/92 09/02/92 05/09/93 10/01/93 09/21/91 09/27/93 09/24/93 09/24/93 09/24/93 09/24/93 10/08/93 10/08/93 10/08/93
	1730	Vatican State	Vatican Radio	9645	7250	6245							ME/eAf/wEu		09/29/93
		Netherlands Romania	R Netherlands R Romania Int'l	21590 17805	21515 17745	9605 15365	6020 15340						são&wAi Ai		09/1//93 05/22/93

Start							SCI	IEDIII.	FS .v.	URESTROM				LAST
	Country	Station	FREQUE	encies			001					TARGET AREA	Notes	Update
1800 1800	USA USA Vatican State	VOA WINB Vatican Radio	15445 15295 17730	15410 15090		13710	12040	11920	621			Africa Eu/hAf e&sAf	#7 Sa-Su Su-Fr	09/24/93 12/23/92 05/28/91
1745	india	AIR	15080		11625							GOS/e&w&nAf/wEu/ME		05/24/92
1800				11935	11860	11620	9950	7412						
1900 1900 1850 1827	Australia Brazil Czech	RAE R Australia R Nacional de Brasil R Prague	15345 11880 15265 13580	11695 11990	11660 9490	9580 7345	7260 6 055	7240	6080	6060	5960	Eu/Afr As/Pac/PapNG Eu Eu/Af	M-F	10/01/93 10/09/93 07/17/90 10/24/93
		KSDA Kol Israel Kol Israel R Kuwait	13720 11587 11675 13620	7465								eAf wEu/NAm eEu/wNAm Eu	Sa-Su	04/04/92 08/29/93 08/29/93 03/30/92
0200 1900 1900	Lebanon N Mariana Is N Mariana Is	King of Hope KHBI/1 KHBI/2	6280 9355 9355									ME NZ Eu/ME	Univ Network 22-02	05/29/93 09/12/93 09/12/93
1900	Poland	R Norway Int'l R Philipinas Polish Radio Warsaw R Moscow Int'l	11860 17840 9525 12055	9590 15190 7285 9890	7270 9550	7180						eAf/Eu/ME/wAf As Eu World Service	Su only also Tagalog	09/22/93 09/25/93 10/23/93 09/29/93
1900 1845 2015	Sudan Swaziland Swaziland	R Omdurman Trans World Radio Trans World Radio	9165 9500 3200	7200	9330	7160						Regional eAf sAf		03/06/93 09/02/93 09/02/93
1900 2200 1900 1900	USA USA	KJES KVOH VOA VOA	9510 17775 17800	15580	15410	15320	13710	13675	12040	11920	621	wCanada CAm/Carib Africa	imegular Su	10/19/92 05/29/93 09/30/93
1900 2000 2100	USA USA	WCSN WHRI WINB	19379L 21640 13760 15295	9590	9760	9700	6040					ME/nAI/Eu Al eNAm/Eu/Carib Eu/nAI		09/24/93 09/12/93 07/13/93 12/23/92
1825 1815	Vietnam	V of Vietnam	15009	9840								Eu		11/07/89
1900	Bangladesh Germany	R Bangladesh R Deutsche Welle	9565 1269									Eu/ME Eu		09/02/93 10/25/93
2000 1927	Bulgaria Netherlands Sweden	R Bulgaria R Netherlands R Sweden	9700 21590 15145	7455 21515 9655	9605 6065	6020 1179						NAm/Eu s&e&wAf ME/Af/Eu		10/25/93 09/17/93 09/24/93
1850	Greece Venezuela	V of Greece R Nacional de Venezuela		15650								sAf SAm	News/Eng ex Su news/Eng M-Sa	10/09/92 06/06/91
1855	Gabon New Zealand	Africa No. 1 R New Zealand Int'l	15475 11735									Pacific	2 min news summary	10/01/93 10/17/93

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End Country 900	STATION	FREQUE	MCIES									I MAGET MACA	110163	
2000 Algeria	R Algiers Int'l	17745	11715	9535								eAt/ME		10/01/5 10/09/5
2100 Australia	R Australia	11880	11720	11695	11660	9580	7260	7240	6080	6060	5960	As/Pac/PapNG	**	
1915 Azerbaidzhan	V of Azerbaidzhan	15240	4958									Domestic	News	09/28/
1925 Belgium	R Vlaanderen Int'l	13685	5910									Al/Eu		09/11/
1955 China	China R Int'l	11515	9440	6955								w&nAfr		06/18/
2000 Ecuador	HCJB	21480	21455U	17790	174900							Eu		11/14/
1950 Germany	R Deutsche Welle	15425	13790	11785	11765	11740	9765	9665				wAI/ME		10/25/
2000 Japan	R Japan	11915	6185									GOS:As		10/28/
2000 Japan	R Japan	9535										GOS:NAm		10/28/
2000 Japan	R Japan	11875	9640									GOS;Oc		09/03/
2000 Morpeco	R-TV Morocco	11920											Su	09/02/
2000 N Mariana Is	KHBI/2	9355										Eu/ME/Af		09/12/
2100 Nigeria	V of Nigeria	7255										wAf		07/24/
1930 Portugal	R Portugal	9780										Eu	M-F	10/04/
2000 Romania	R Romania Int'l	15365	11940	11810	9750							Eu		05/22
2000 Russia	AWR Russia	9835										Syria ·	v Novosirbirsk	04/03
2000 Russia	R Moscow int'l	13670	12055	9550	9470	7205	7180	7170				World Service		09/29
1915 Sierra Leone	SLBS	3316											Sa UN Radio	09/24
2000 Spain	Spanish National Radio											Af		11/02
2045 Swaziland	Trans World Radio	3240			-							sAf		09/02
2000 USA	VOA	17800	15580	15410	13710	12040	11920	7415	621			Africa		10/27
2000 USA	VOA	15180	11870	9525								Pac		04/24
2000 USA	VOA	19379L		9760	9700	6040	3980	1197				ME/nAf/Eu		09/24/
2000 USA	WCSN	21640	13503	2700	3.00							Af		09/12
2100 USA	WEWN	15695										ÜK	*Program C*	09/11
2000 USA	WSHB/2	15665										eEu/CIS		09/12
2000 USA 2000 USA	WYFR	21615	15355									Eu/Af		10/08
1925 Vietnam	V of Vietnam	15009	9840									Eu		11/07
930	A OL Algulatili	13009	2040											
2000 Austria	ORF	6155	5945									Eu		09/25
2000 Austria	ORF	9880										ME		09/25
2000 Austria	ORF	13730										Af		09/25
2000 Finland	R Finland	11755	9730	6120	963	558						Eu	Sa -1955	10/18
2030 Iran	V of Islamic Rep of Iran	15260	9022									Eu/nAf		10/04
2000 N Mariana Is	KFBS	9465												03/07
2027 Netherlands	R Netherlands	21590	17605									wAf		03/27
2000 Slovakia	R Slovakia Int'l	9440	7345	5915								wEu		10/04
2000 Yugoslavia	R Yugoslavia	17710	6100									sAf/wEu		10/25
935	DAI			2027								Great Britain		04/08/
1955 Italy 940	RAI	11800	9710	7275								COUNT DITION		
2010 Mongolia	R Ulan Bator	11850	11790									Eu		10/09/
945												ME		10/27/
2000 Armenia	R Yerevan	6065	5930	4990	4810	1395	864					MC		10/2

START							SCH	EDULE	S ava	enosinou					Last
End 2000	Country	Station	FREQUE	ncies									TARGET AREA	Notes	Update
2055 2130 2055	China	China R Int'l China R Int'l China R Int'l	11500 15110	9920 11715									Eu e&sAf w&nAf		10/17/93 10/17/93 10/17/93
2015 2010	Greece	V of Greece V of Indonesia	9440 9375 11752	7450 9675									Eu Eu	News/Eng	04/03/93 11/29/92
2200 2030	traq israel	R iraq Int'i Kol Israel	13680 11603	11810 11587	9435	7465							Eu NAm/wEu	News/EE @ 2045 irr	06/15/93 10/03/93
2030 2030 2030	Israel Israel Latvia	Kol Israel Kol Israel R Latvia	11675 17575 5935										wNAm/eEu Af	Sa-Su	08/29/93 08/29/93 10/22/93
	Lithuania North Korea	R Vilnius R Pyongyang	9710 9977	9675 9640	1557 9345	666 6576							Eu ME/At/Eu	08-00	09/28/93 01/01/90
2030 2030		R Norway Int'l R Portugal	9590 15515										Eu/Al/eNAm Al	Su only M-F R Aum 2030-21	09/22/93 10/04/93 09/29/93
2100 2130 2030		R Moscow Int'l SLBC Swiss R Int'l	13670 15120 15505	12055 9720 13635	9550 12035	9515 9885	9470	7205	7180	7170			World Service Eu Af	R Aum 2030-21	08/24/91 09/27/93
	Switzerland Turkey	Swiss R Int'l V of Turkey	6110 9445										Eu Eu	:	09/27/93 03/22/93 05/01/93
2100 2030 2100	USA	KJES VOA VOA	9510 21485 19379L	17800 15205	15580 11760	15495 9760	15160 9700	13710 6040	11820 3980	7415	1530	621	wCanada Africa ME/nAl/Eu	irregular	10/27/93 09/24/93
2100 2300	USA	WCSN WHRI	13770 17830	13760									Af Carib/eNAm/Eu		09/12/93 07/13/93 10/18/93
	USA	WSHB/2 WYFR Vatican Radio	9355 21525 15090	17750 11625	15566 9645	7355							UK/e&wEu Eu/A/ c&s&wA/		10/27/93 09/22/91
2005 2105		R Damascus	15095	12085	3013								Eu/NAm		02/03/91
2015 2045 2025	Swaziland	Trans World Radio	3200										\$AI	Su	09/02/93
2045 2030	Italy	RAI	11800	9575	7235								Near East		04/24/91
	Egypt Palau Poland	R Cairo KHBN Polish Radio Warsaw	15375 9830 9525	7285	6135	1503							wAf Eu	M-Sa (exc Sa Mandari	08/16/90 09/12/93 10/23/93
2059 2059	South Korea South Korea South Korea	R Korea R Korea R Korea	6035 9640 9870										Eu seAs ME/A/		10/03/93 10/03/93 10/03/93
2100 2055	South Korea USA Vietnam	R Korea VOA V of Vietnam	5975 21485 15009	17800 9840	15580	15410	13710	7415	1530	621			GOS Africa Eu		10/03/93 10/27/93 11/07/89
2045 2230	India	AJR	15265	11715	11620	9950	9910	7412					GOS/AusNZ/wEu		08/26/91

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		Country	STATION	FREQUE	NCIES			3011	LDOLI	. 3 113	0 K U S K U H			TARGET AREA	Notes	Last Update
		Vatican State	Vatican Radio	5882										Eu		09/29/93
	2200 2115 2155 2200 2127 2150 2150 2110 2400 2200	Cameroon China Cuba Czech Germany Germany Ghana Guarn Japan	R Australia R Bulgaria R Cameroon Chinai R Int'i R Havana R Prague R Deutsche Welle R Deutsche Welle Ghana BC Corp KHBN R Japan	15365 9700 5010 11500 17760 9490 11785 15425 3366 9820 11915	15320 6085 9920 7345 9765 9715	7265 9670 9690	6055 6185	11720	9645					As/Pac/PapNG NAm/Eu Eu Eu/A/ME Eu As/Pac wAf China GOS:As	news in English News in English	10/09/93 10/25/93 12/04/88 06/18/93 12/19/92 10/22/93 10/25/93 10/25/93 12/23/87 09/19/90 10/28/93
S-21	2200 2200 0100 2200 2200 2200 2200 2200	Japan Japan Japan Lebanon N Mariana is Romania Russia Russia Russia Russia Russia Russia Russia USA USA USA USA	R Japan R Japan R Japan Wings of Hope KHBU1 R Romania Int'l R Moscow Int'l Spanish National Radio VOA VOA VOA WOSN WINB	9640 11925 11530 13840 11940 13670 9890 7330 6055 4860 6125 21485 930 17735	9750 9550 7205 4795 17895 15185 15205	9690 9470 7180 17800 11870	7225 7170 15580 11760	7195 7150 15445 9760	7115 15410 6040	13710	7415	1530	621	GOS:Oc GOS:Eu/ME ME Aus Eu World Service World Service World Service World Service World Service Eu Africa Canibbean Pac ME/MAI/Eu AI/Eu Eu/nAI	Univ Network 22m 31m 41m 49m 60m	09/03/93 09/03/93 09/03/93 10/18/93 10/18/93 09/29/93 09/29/93 09/29/93 09/29/93 11/15/92 09/30/93 09/24/93 09/24/93 04/24/93 10/13/93 10/18/93 12/23/92
	2105 2130 2110	Yemen	Yemen Radio & TV Corp	9780										ME		10/13/93
	2210 2115	Syria	R Damascus	15095	12085									NAm/AusNZ		07/07/91
	2245 2245 2130 2130		R Cairo Italian Radio Relay Serv SLBS	9900 7125 3316										Eu NAm	Fr Fr&Sa UN Radio	08/16/90 10/28/93 09/24/92
	2300 2230 2230 2230	Australia Canada Canada Canada Ecuador Latvia	R Australia R Canada Int'l R Canada Int'l R Canada Int'l HCJB R Latvia	21740 15325 17820 5995 21480 5935	17795 13650 15325 214550 576	15365 11945 15140 17790	15320 7260 13670 17490U	15240 5995 13650	11880 11945	11055 7260	11720 5995	9645		As/Pac/PapNG Eu Af ME Eu	Mo-Fr	10/09/93 09/28/93 09/28/93 09/28/93 05/01/93 10/22/93

START							SCH	EDULE	5 87 501	NOSŤRON				LAST
	Country	STATION	FREQUE	NCIES								TARGET AREA	Notes	Update
0700 2200	New Zealand Sweden USA	R New Zealand Int'l R Sweden VOA	15120 9655 21485	6065 17800	1179 15580	15410	13710	7415	1530	621		Pacific Eu/AI/ME Africa	Su-Fr	10/14/93 09/24/93 10/27/93
2140 2155	Venezuela	R Nacional de Venezue	la 9540									SAm	news/Eng M-Sa	06/06/91
2145	Courth Konna	D. Koma		6400								Eu		05/09/93
2240	South Korea	R Korea	15575	6480								20		
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0200 2300 2300 2300 2300 2230	USA USA USA	WEWN WSHB/1 WSHB/2 WYFR R Yugoslavia	7425 9465 17555 21525 6185	17750 6100								NAM Eu/eNAm eSAm Eu/A/ Eu/wEu	bdf1-"Program A"	04/18/93 09/12/93 09/12/93 10/08/93 10/25/93
	Croatia	Croatian Radio	13830	13640	9830	5920							News/English	09/24/93
	Finland Finland	R Finland R Finland	9615 9615	963	558							Eu eAs/Aus	Sa -2255 Sa -2255	10/18/93 10/16/93

	START							SCH	EDULE	S et su	MPSTROM					Last
	End C	OUNTRY	Station	FREQUE	NCIES									TARGET AREA	Notes	Update
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	2250 Gr	reace	V of Greece	11645										AusNZ	News/Eng	03/27/93
	0015 Bu 2300 GI 0045 Ind 2330 US		R Yerevan R Bulgaria Ghana BC Corp AIR WINB Vatican Radio	11920 9700 4915 15145 15145 11830	9705 7455 3366 15110	7440 11745	11715	9910						Eu NAm/Eu GOS/As Eu/nAf As/AusNZ	nv/English	10/27/93 10/25/93 09/09/90 11/10/92 12/23/92 09/12/93
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START						SCHEDULES	SY SUNDSTROM			LAST
	Country	STATION	FREQUE	NCIES				TARGET AREA	Notes	Update
2400 2400 2400 2345 2355	Netherlands Sri Lanka Sweden USA USA Vietnam	R Netherlands SLBC R Sweden VOA WINB V of Vietnam	6165 15425 11910 1548 15145 15009	6020 1179 1260 9840				eNAm eNAm As/Eu ME Eu/nAf Eu	Mo Sa-Tu&Th	09/22/92 07/22/93 09/24/93 10/13/93 12/23/92 11/07/89
2345	Greece Armenia	V of Greece R Yerevan	11645 12010	11595 11920	9425 9685			SAm/CAm LAm	News/Eng ex Sa	06/18/93 10/27/93

tropical bands bands Survey The 199 able, as Edited by the E



The 1993 Tropical Bands Survey, 21st edition, is available, as in past years, from the Ontario DX Association. Edited by Argentine DXer Julian Anderson and published by the Danish Short Wave Clubs International, TBS is one of the most valuable references for the Tropical Bands DXer.

The TBS lists all broadcasting stations in the frequency range 2000-5900 kHz and monitored in the past year. Details such as transmission hours, powers and languages are included.

US\$9.00 postpaid to the United States or C\$10.00 postpaid to Canada. Order from the Ontario DX Association. P.O. Box 161. Station A, Willowdale, Ontario M2N 5S8, Canada.

INDONESIA - RRI Gorontalo 2160H Second harmonic of new transmitter on 1080 heard at 1516. Parallel 4987.7. (Foster Numero Uno No 1241 October 15th)

Radio Arma Sebeles 2378.7H Heard at 1458 with Jakarta news at 1500, 1188 x 2, (Juichi Yamada during trip to Indonesia September

Unid 2914.7v, 1244-1425 possible amatir. Faint Motown music at 1244. Male announcer in Indonesian. Music over the top of the hour. Drifting to 2915.9 by 1343 and 2918.2 by 1425. Very faint signal and poor modulation. (Guy Atkins October 10th Dxpedition at

Grayland State Park, Washington)

RKPDT2 Manggarai 2960.15, 1250-1400 sign off. Echo sound effects at 1258 and possible ID with mentions of Indonesia, Poor modulation. No SCI at 1300, but into Jakarta relay anyway (//4753). Anthem at 1313, Male announcer to 1319, then Indo pop vocals. Probable ID at 1314 and 1358 recheck with mention of Manggarai (sounded Man-ga-rang). Sign off at 1400 with announcements and Love Ambon. Weak signal.

RRI Samarinda 9614.8 Heard with English language lesson at 0942 on October 8th, a

Friday. (ibid)

RKPDT2 Bengkalis 3178.4v Poor signal and modulation and drifting. Heard at 1223. (Foster Numero Uno No. 1241 October 15th)

RRI Banjarmasin 3249.9 is still active. Heard on September 14th during trip to Denpasar in addition to unidentified stations that were heard on 3286 and 3355. (Juichi Yamada October 19th)

RRI Palangkaraya 3325 Heard signing off in mid-song at 1519 which is about 20 mintues later than previous sign off time. (Foster OZDX

No. 85 October)

RRI Medan 3376 Has reactivated this frequency. (Foster Numero Uno No. 1241

October 15th)

RRI Malang 3381 Has not only reactivated

but is on until 2100 sign off. (ibid)

RRI Manakwari 3987.26 The verification signer is P.M. Tisera, Kepala. They use a Philips transmitter with 1 kW with a delta match antenna 17 meters high. The station uses a Redifon transmitter with 500 watts into the same type of antenna arrangement on 6187. (Takayuki Inoue Nozaki Relampago Dx Logging No. 22 August 28th-September 6th)

RRI Serui 4606.4 Has returned to the schedule listed in the 1993 WRTH. (ibid)

RRI Medan 4765 Noted on this SCI at 1659. (Dave Valko October 8th) Previous sign off was 1520. (Foster OZDX No. 85 October)

RRI Kupang 4805 struggling along at 1148, low-powered outlet (Seager Australian Dx News October) Ambon 4863.8 Noted on past 1130 sign off. (Clark Numero Uno No. 1238 September 24th)

RRI Sorong 4873.6 Has retimed English from Sundays to Mondays at 1130. (Valko/HJ Dxpedition in Dunlo, Pa area October 4th)

RRI Pekanbaru 5040 New frequency since the end of September, ex 5985. (Juichi Yamada October 19th) The station now seems to be on past its old sign off of 1515. (Foster OZDX No. 85 October)

RRI Palangkaraya 9545 Thanks to a tip from Foster in the September OZDX this one has been heard from about 1115 until 1223 sign off. Undoubtedly the 50 kW transmitter is being used here now instead of on 3325. (Clark Numero Uno No. 1238 September 24th)

RRI Nabire 6127 Not noted during Dxpedition. (Dave Valko Dxpedition Grayland State Park Washington October 10th)

RRI Manokwari 6188 Not noted but 3987 was heard though during Dxnedition (ibid)

Last month (see October LN) Dave Clark speculated that the 9 new 250 kW transmitters which Radio Republik Indonesia is planning to install in Sulawesi and Java for improved domestic coverage would be utilized on shortwave, as opposed to medium wave. It seems that may not be the case. "Unfortunately, no details are yet available for the new RRI stations in Lhokseumawe, Sungai and Tual, though none is believed to be on shortwave". (Foster Numero Uno No. 1241 October 15th) So it seems we're talking a big expansion on medium wave after all. In my view that still does not bode well over the longer term for the continuation of the extensive RRI network on shortwave which has been slowly contracting over the years with increasing use of both medium wave and FM at the local level. Many of the shortwave transmitters are old, in a sorry operational state (even if on the air), and while periods of inactivity have typically occurred in the past, usually the transmitters could be expected to reappear on shortwave, eventually. I'm not so sure that will continue to be the case, although as a DXer personally most interested in Indonesia, I certainly hope I'm wrong about this! (David Clark World Radio Report Dx Ontario November)

IRAN - VOIRI Will soon add 6 new languages to the 12 it is already broadcasting in. (BBC Summary of World Broadcasts World Broadcasting Information No. 41 October 8th)

IRAO **CLANDESTINES-MIDDLE** see EAST

ITALY - RAI Was carrying Radio Due on 21775 and 7175 from 0700-1343 sign off but they have switched to Radio Uno since September 26th. 9515 is untraced. (Giovanni Serra September 26th)

AWR Forli 7230 Has reactivated. (Monferini

Play Dx No. 760 October 18th)

JAPAN - NHKI Fukuoka 1 3259 Is now inactive again. (Juichi Yamada October 19th)

KASHMIR (AZAD KASHMIR) - On October 13th, the foundation stone was laid for Radio Azad Kashmir-Mirpur. Probably one 100 kW transmitter will be installed here. (BBC Summary of World Broadcasting World Broadcasting Information No. 42 October 15th) No frequencies or times given. Mirpur is located in Azad Kashmir to the south of Muzaffarabad. (HJ)

KIRIBATI - 9825 Radio Kiribati 0600 sign on +, Radio Kiribati NOT HEARD on this frequency for 5 straight nights, October 8th through October 13th. First two dates were with the benefit of 1000 ft. Beverage antenna aimed right at Kiribati... not even a het. Per Dave Onley/OZDX in David Clark's WRR/DXO, 9825 may be temporary pending a change to an even lower frequency for better outer-island coverage. Perhaps they've already made the move. (Guy Atkins October 13th)

KUWAIT - A recent QSL from Radio Kuwait shows English at 1800-2100 on 9840 and 13620 with news at 1830. (Arthur Cushen on Radio New Zealand Mailbag September 26th via Mike Fern) This station has the English program Our missing POWs from 2030-2045 daily. (Berg Numero Uno No. 1240 October 8th)

LATVIA - Radio Latvia 5935 Since October 2nd, English transmissions have been retimed to 2000, ex 1800. (Southwell Shortwave News October)

LIBYA see MALI

LEBANON - Voice of Lebanon 6550 Has English Mondays-Saturdays from 1700-1713. (Radio World/Southwell Shortwave News October)

LITHUANIA - Lithuanina Radio First Program 9710 Has VOA programming in Lithuanian from 2030-2100 daily. (BBC Summary of World Broadcasts Broadcasting Schedules No. 39 September 24th)

LUXEMBOURG - Radio Luxembourg 15350 Noted in German at 2100 with 1960s pop music. (Parks DX South Florida No. 308 September 24th) While 6090 English Service left shortwave in January does anyone know if the above left shortwave and has since returned. (Krueger ibid)

MADAGASCAR - Radio Malagasy 3281.79 Heard on this frequency at 1630. (SA Shortwave Bulletin No. 1236 October 19th) MALAYSIA (SABAH) - RTM-Kotakinabalu 5980 Heard at 0935 before listed 1000 sign on. (Seager Australian Dx News October)

MALAWI - MBC According to the station, they ceased broadcasting a number of partisan political programs as of September 21st as part of an agreement between the country's president and his political opposition. (BBC Summary of World Broadcasts No. 40 October 1st)

MALI - The Malian president asked for LIBYA's help in improving its internal radio network. Libya was interested in helping Mali install a "radio booster station" to improve Mali internal radio broadcasts. (ibid)

MEXICO - Radio Educacion 6185 In addition to programs in English and Spanish, this station has occasional programs in Italian. They plan to add programs in German and French if they get enough letters from these countries. (Kuhl Play Dx No. 757 September 26th)

MONGOLIA - Radio Ulaan Bator According to a station announcement, English transmissions are only on Mondays, Thursdays and Saturdays. (Clark Numero Uno No. 1241 October 15th)

MOZAMBIQUE see CLANDESTINES AFRICA

NIGERIA - Voice of Nigeria A QSL has been received from Mr. Lawal Yusuf Saulawa using the address in the 1993 WRTH. (Stephen J. Price September 22nd)

NORTH KOREA - Pyongyang 5870 Sign on at 1000 with anthem, then Korean announcements and songs. Runs parallel 4770. I'm not sure what this service is, but it's been around for years (on 4770 at least) and is not covered in the standard reference sources. (Seager Australian Dx News October)

PALAU - The High Adventures Ministries station KHBN is operating its single 100 kW transmitter at an output of 50 kW and uses two antenna arrays. Palau was far-removed from the epicenter of the quake which struck Guam last August 8th and no damage or disruption to operations was incurred here. (Adrian Peterson in Radio News Bulletin No. 9 - August via Dave Clark's World Radio Report Dx Ontario November)

PAKISTAN - Radio Pakistan 15675 The September Pakistan Calling list this channel as being in use from 1600-1630 with slow speed news and from 1700-1800 in Turkish. So it's

not a spur (even though it sounds like one !) . . . just poor audio quality. (Chris Sweitzer October 10th)

see KASHMIR (AZAD KASHMIR)

PAPUA NEW GUINEA - Was hit by a series of strong earthquakes and aftershocks beginning with a quake measuring 7.0 on the Richter Scale on Wednesday, October 13th, soon followed by aftershocks measuring 6.5 and 6.0. Communications to Morobe Province on the north coast were cut off and damage was reported by amateur radio operators at Madang. The quake was also felt in the capital, Port Moresby, some 310 miles away from the epicentre. Another quake hit the Madang coastal area on Saturday, Oct 16th at 1304 local time, according to an initial Associated Press report originating from Canberra, Australia. On the morning of Oct 17 from Newmarket, provincial stations most likely to have been affected by the quakes were checked - that would be Sunday evening in Papua New Guinea. Radio Madang 3260, Radio West Sepik 3205 and Radio East Sepik 3335 were on the air and apparently in normal operation. Radio Enga 2410, however, was absent as has often been the case lately. (Chuck Rippel and Dave Clark World Radio Report Dx Ontario November)

PARAGUAY - As far as is known, there is only one shortwave station currently operating from Paraguay, Radio Nacional on 9735. Radio Guaira is off the air on shortwave and some DX reports say that La Voz del Chaco will begin shortwave broadcasting soon on the 60mb. (Peterson Australian Dx News October)

PERU - Radio Naylamp 4300 Is on 24 hours a day. (Latinoamerica Dx No. 159 August via Radio Nuevo Mundo No. 185 October 8th)

Radio Huanta Dos Mil 4747 Was heard on 4755.4 around the middle of the month before returning to its nominal frequency. (HJ October 11th)

Radio Maranon 4834.9 Has reactivated. This station is listed in the Tropical Bands Survey as having been inactive since June 1992. Heard signing at new time of 1000 with "Chariots of Fire" playing in the background.

(HJ October 13th)

Radio Lider 4860 Is the id I am hearing for a station active here. Heard as early as 0920 since October 22nd. Greeting to listeners in Quillabamba and many mentions of Cusco. While I can find no listing of Radio Lider on shortwave, there is one in Cusco on medium wave 1100 so there might be a connection. Additional monitoring will determine the station's QTH. (HJ October 27th)

Radio Madre de Dios 4953 Has a special program for their international listeners

Sundays from 0100-0200. (Kuhl Shortwave News October)

Radio Cultural Amauta 4955 Sign on is at 0955. (Richard D'Angelo October 21st)

Radio del Pacifico 4974.8 Now has a morning transmission, sign on is at 0800v. (Takayuki Inoue Nozaki Relampago Dx Logging No. 24 October 2nd-8th)

Radio Hispana 5015v Has reactivated on this new frequency, ex 5895.4. First heard on September 17th. Schedule is 0900-1200 fade out and 2200 fade in to 0400 sign off. Last known power of the transmitter was 300 watts. (ibid) Seems to be the one 1 am hearing at 1000 on 5016, Thanks TIN (HJ)

Radio Ritmo 5602 Not heard during trip to

Bolivia (Takayuki Inoue Nozaki ibid)

Radio Victorio 6020 A QSL letter sent to the address listed in the 1993 WRTH was returned as undeliverable. (HJ October 6th)

Radio Nacional del Peru 6095 Reactivated and heard until 0500 sign off. (Kuhl Play Dx No. 757 September 26th) Station is located in Tacna and previously used 9530. They are asking for letters to the following address: Avenida Hipolito Unanue, Tacna.

(Manual Rodriguez Lanza Radio News No. 8

Electronic Edition October 24th)

Radio La Voz de San Antonio 6628 In a QSL letter, the station says that it is a cultural operation with a power of 300 watts. They are having alot of difficulties running the station and are requesting for hints at institutions that are able to help them do their work in a difficult environment. The station also has a new address: Jr. Alfonso Ugarte 732, Bambamarca, Cajamarca. (Kuhl Shortwave News October)

Radio Universo 6815.6 Is only on UTC Monday nights and has a new QTH: Av. Lima 307, Saposoa. (Klemetz Play Dx No. 759)

October 11th)

PIRATES-EUROPE - European hobby pirates can be expected to cross the pond to the U.S. during the fall, winter and perhaps early spring. The traditional time of the week for pirate activity is 0900-1300 Sun UTC. In the last year or two, pirates have developed some additional regular periods. Many operators have added 0900-1300 Sat UTC. The regular Europirate band excends from 6200-6340. A second pirate band, used more in the U.S. than in Europe, runs from 7350-7500; it is used Saturday and Sunday mornings UTC also. Starting last winter pirates began showing up between 3880-3950. Saturday nights and early Sunday mornings. Activity peaks around 2300-0200. Several Russian pirates use this band, including Radio Without Borders International, (see below HJ) near Moscow, which first appeared in the 6.2 MHz band but was heard in early 1993 on 3916v. Good overseas reception should begin in mid-October. The high season ends about March 15. Two regulars are based in Ireland: DLR-106 in a suburb of Dublin on 6226v between 0700-1800, and an incarnation of Radio Caroline on 6295v. (John Campbell Media Network September 30th via Mike Fern)

Radio Stella A letter from Jock Wilson, the station operator, states: 11413 is off the air, 7446 is on reduced power of 20 watts and 3945 is operating properly. There are not enough funds to pay the operator in Ireland so the station is not on the air every weekend. (Lobdell Numero Uno No. 1240 October 8th)

North Ireland Radio Relay Service-IRRS This station left the air in May as the piece of land they used for a transmitter site has been sold. (Free Radio Page September via Play Dx

No. 759 October 11th)

Radio Without Borders International Was reported raided on August 3rd and had its transmitters seized. (FreeDx via Contact

October)

UNITED STATES After a lurid career as a fish trawler, a smugglers ship and finally a radio boat, the MV Sarah became a Movie Star for one fleeting moment. In 1987 this old rust bucket was purchased by Alan Weiner, a notorious radio pirate broadcaster, from the US Government. The ship's prior assignment had been to smuggle narcotics under a false deck and it had been taken in a seagoing raid by the DEA and USCG. It was renamed the Sarah in honor of some rock hero's wife, and was immediately rebuilt by some of New York City's FM broadcast pirates as a radio ship. To be later named Radio New York International, the pirates performed the major work on returning the ship to seagoing fitness and installing the towers while it was docked in a secluded part of Boston Harbor. Radio New York International hit the air for four days in 1988, and the story of how Weiner, Ivan Rothstein and a reporter for The Village Voice were led away in handcuffs caught press attention world wide. After another attempt at broadcasting in 1989, the ship's transmitters were again silenced, but in a less volatile way, by FCC order. While RNI began a legal venture as a time buyer on shortwave broadcaster WWCR in 1990, the Sarah went through some of its own changes. A sale to another seagoing broadcaster fell apart and Weiner again regained ownership of the Vessel. And so it stood in dock in Boston Harbor, until recently. Weiner has been involved in the construction/conversion of another ship into a radio vessel, the Fury II, owned by Voyager Broadcast Services, also being built in Boston. While working on the Fury II, he was approached in June by MGM. They were looking for an old trawler to use in an as yet untitled motion picture to be released next year. Weiner simply said, "sold"!

The movie company also provided Weiner funds to deliver and clean out the ship which meant that Weiner immediately began stripping out all the left over radio gear and the generator for the Fury II. The movie people then began stripping off the ship's towers and wheel house and replacing them with wooden facsimiles. They also began painting the ship to look much more rusted and dirty then it ever was. According to Weiner, you had to be closer than 6 feet to tell it wasn't real rust. Finally, the ship was made to lisp into an abandoned dock for an added effect.

Last Saturday, September 25, 1993, the Harbor was cleared, the cameras in position and rolling, and with windows boarded up for a mile around, the director yelled "Action!". In a brilliant display of pyrotechnics, the listing ship was blown up in a sequence of 5 explosions that included the Hollywood mandated fireball and roman candle like, white hot shrapnel fragments spewing out from its inferno engulfed hulk. According to Alan, who was with one of the camera crews across the bay, "the concussion and display was nothing short of spectacular. It lit up the harbor in broad daylight. It was a fitting end to the

As for the Fury II, that radio ship is getting it's final wiring right now and it should sail soon. This past Wednesday, (September 22nd) they received their registry and radio license, however the exact location and the country licensing the venture are still being kept secret. After a shakedown cruise and equipment testing, Alan says you can expect them to be on the air by mid winter. (Big Steve Cole Internet via Ben Krepp)

RUSSIA Radio Rossii During the excitement on October 3rd and 4th, it was interesting to hear the style of treatment of the news. On news bulletins the disturbances were the first item, but given more attention than would have been given if they had been happening in Paraguay and the language was very detached. The writers of the scripts either didn't like Mr. Yeltsin or were uncertain of the final results and were hedging their bets. (Campbell Numero Uno No. 1240 October 8th) Another shortwave transmitter site is Boishakovo that which is south of Sovetsk in the Kaliningrad enclave. It has nine transmitters of 50/100 kW including one SSB transmitter. The antennas are rhombics and other simpler ones and the site is used for Home and Foreign Service broadcasts. (Alm Dx'ers Calling September via Fred Kohlbrenner)

Radio Channel Uralskiy Commercheskiy Vestnik (Ural Commercial Herald) 6200 from 1530-1600. (Samojlov Dx Moscow Newsletter No. 28 September-October via Play Dx No. 758 October 3rd) This is a new independent station broadcasting from Yekaterinburg from

1200-1300 on 6200 Mondays to Fridays only.

(Nikolai Rudnev September 28th)

Radio Kazan Operates from Taiarstan on the following schedule: 6115 0300-1530 Mondays through Fridays 0300-1200 Saturdays 0400-1230 Sundays. Radio 7 in Samara and Radio Moscow also use this frequency. 11985 1600-1800 (sic) Mondays to Fridays. Radio Moscow also uses this channel. (Kokchasharov Dx Moscow Newsletter No. 28 September-October via Play Dx. No. 758 October 3rd) Slavyanka Radio logged at this time on this frequency. See October LN. (HJ)

Radio Novaya Volna 5450 from 0500-1300. The station is located in Chelyabinsk. (Samojlov, Zavjalov Dx Moscow Newsletter No. 28 September-October via Play Dx No.

758 October 3rd)

Radiostation Lena Is a new independent station that broadcast from 1000-1600 Mondays to Fridays on 5920 6125. The station's address is ul. Dezhneva, 75/4, 677002, Yakutsk. (Spiridonov ibid)

Radio Mir (Peace) 12000 A new station, heard from 1600 until 1630 with Russian interviews of various CIS heads of state.

(Pankov Shortwave News October)

Radio Ala Plans to return to the air with a new program format. (Timofeyev Shortwave News October)

Radio Alfa and Omega 9795 from 1500-1600. Latest Schedule (Nikolai Rudnev September 28th)

Radio Radonezh 9795 from 1600-1700.

Latest Schedule. (ibid)

Radio Center Latest schedule is: 0630-0700

12010 1630-1700 7170. (ibid)

Radio Alef Latest schedule is: 1700-1730 Tuesdays, Thursdays and Sundays on 4055

5905 12075 17890. (ibid)

Slavyanka Radio Latest schedule is: 0230-0300 UTC Tuesdays through Saturdays on 4740 4940 7335. 1700-1730 Mondays through Fridays on 4740 4940 7335 (ibid) See October LN. (HJ)

Radio Novaya Volna-2 Broadcasts on a new frequency of 6020 between 0800-1200. (Nikolai

Rudney September 28th)

U-Radio 5900 Is reported to broadcast from 2100-0100 but it has been heard as early as 1700. The station's address is: U-Radio, P.O. Box 29, Moscow 109444 or U-Radio, Music Center, MGU, Vorobyevy Gory, Moscow, 117234. The editor in chief is Mr. Konstantin Volkov and the station does verify! (ibid)

Radio Khanty-Mansiysk 4820 Has local programs at the following times: 0210-0230 UTC Tuesdays to Fridays. 0220-0240 UTC Mondays 0800-0900 UTC Mondays to Saturdays 1100-1120 Wednesdays and Fridays.

(ibid)

Radio Tyumen 4895 Has local programs at the following times: 0055-0100 UTC Tuesdays to Sundays 0100-0110 UTC Mondays 01100300 UTC Tuesdays to Fridays 0200-0300 UTC Mondays 0300-0600 UTC Saturdays to Sundays 1300-1400 Saturdays 1310-1410

Mondays to Fridays. (ibid)

FEBC Broadcasts a 20-minute weekly program on Radio Mayak. One can sponsor a Russian staff member of FEBC for \$50 per month and upon request receive information about the person being sponsored. (FEBC publication undated via Marlin A. Field October 20th)

Radio Arkhangelsk 6160 new frequency ex 5015. Heard at 1500. (OAA Shortwave Bulletin

No. 1235 October 5th)

Radio Pumyat The nationalist movement Pamyat, which operated its own shortwave station using Radio Moscow transmitters at Yekaterinburg and elsewhere, was closed down on October 4th by decree of President Yeltsin. (Orange County Register October 5th via Mike Fern)

Radio Moscow's operations were hardly affected by the abortive rebellion on the first weekend in October. BBCM did not observe any departure from the RMWS' normal transmission schedule. The fighting was at Ostankino Radio & TV Co., which is in a Moscow suburb of the same name. Ostankino facilities are used mainly for domestic broadcasting. The domestic media was quite friendly to Yeltsin and hostile to the parliamentary faction. The Russian media situation is highly complex. There are two main state radio and TV companies, Ostankino and the All-Russian State Radio & TV Co. Although they are separate, they share the same transmitter and distribution facilities.

So all of the Russian state media was affected by the attack on the Ostankino studio complex. The parliamentary faction attacked the Ostankino complex at 1415 Sunday October 3rd and broke into the studios. People in the studios actually had the presence of mind to close down the Ostankino TV service there and then. It very soon went to a test pattern. So the people who broke in never got a chance to

broadcast on either radio or TV.

Domestic radio and TV were disrupted for a while. The Ostankino channel went off the air for some time, but within 90 minutes began using its transmitter to relay the other channel, which was almost unaffected by what was going on. Two radio networks including the Mayak service were affected for several hours. When Mayak went off its frequencies were turned over to Russio's Radio, another home service. But by about 2100 Sunday October 3rd Mayak had started operating again, albeit backup studios. Most domestic broadcasting on Monday October 4th was completely back to normal. (Richard Measham, BBCM, on Media Network October 7th via Mike Fern)

RWANDA - Radiodiffusion Rwanda 15340 Is iding as Radio Rwanda, deuxieme chaine (channel two) (Tony Orr Fine Tuning No. 708 October 6th) The station is no longer announcing 3330 in their sign off announcements. (Krone Play Dx No. 757 September 26th)

see SWITZÉRLAND

SABAH see MALAYSIA

SAUDI ARABIA - BSKSA 4942.5 This sub-harmonic of 9885 was heard at 0340. (Krueger DX South Florida No. 307 September 23rd) 4790 sub-harmonic of 9580 heard at 0301. (Dave Valko HJ Dunlo Dxpedition October 4th) For the S93 season, Riyadh has deleted the English and French transmissions from the shortwave external services. The Holy Koran and Network One services have been rearranged. The "Call of Islam" px is available: 1500-1700 on 11780 11950 11965. The Holy Koran network is now on the air from 0300-2100 (formerly 0600-2100). Network One is now available on shortwave from 0600-2300 (previously 0300-2300). (Padula Australian Dx News October) Heard on new 9555 with Main Arabic Service, 2200-2300 sign off, parallel 9870 18/9 (ibid)

SINGAPORE - Singapore Broadcasting Corporation is prepared to become a major regional shortwave voice in South Asia. In 1994 it will begin using six 250-kW shortwave transmitters and one 100-kW transmitter. The two 40-kW transmitters in the 60 meter band will be retired. SBC's Radio One will then use 6155 and 9530 with 250 kW each. City Sound in Chinese will be on 6000 and 9635 also with 250 kW. The Home Service in Malay will use 7250 and 9590, also 250 kW. 7170 will carry the SBC Tamil channel. These are strictly home service relays to improve reception in nearby countries. The transmitter site is next (Media door to the BBC relay station. Network September 23rd via Mike Fern)

SOMALIA - Radio Mogadishu This radio station, which identifies itself as "Radio Mogadishu, the voice of the Somali Republic" (Somali-Radio Mogadishu, Codka Kamhuryada Somalida) broadcasts in support of interim president Ali Mahdi Muhammad. The radio was first heard on March 16, 1992 and only has one transmitter that operates in upper sideband plus carrier on the following schedule: 6722v 0400-0500 (0600 Fridays) 1000-1130 1600-1800. (BBC Summary of World Broadcasts Broadcasting Schedules No. 39 September 24th)

Radio Hargeisa Continues to broadcast and has been heard from 1000-1230 and 1500 until about 1700 on 7120. (BBC World

Broadcasting Information ibid)

Radio Awdal Reportedly broadcasts from Boorama, which is about 60 miles northwest of Hargeisa in the self-proclaimed Republic of Somaliland. The radio is controlled by the Gadabursi clan. The radio has so far not been confirmed from monitoring research. It is reportedly on from 1630-1700 on 6500. (BBC Summary of World Broadcasts Broadcasting Schedules No. 40 October 1st) For NASWA country purposes, these last two count as BRITISH SOMALILAND. (HJ)

SOUTH VIETNAM see VIETNAM

SPAIN see COSTA RICA

SRI LANKA - Trans World Radio-South Asia Is delighted at the number of DX reports received this year, following the introduction of SW programming via the 12.5 kW Collins txer. Australia, Finland, Japan and New Zealand reports have been prominent. Since June, the station has been using the Irkutsk relay for broadcasting into Northern India - 90 minutes morning, and 150 minutes evening. The well established broadcasts into India from KTWR (Guam) have been subject to propagation problems, and the CIS relay has been encouraging. From Octber 1, the station was to an additional morning have introduced broadcast from Sri Lanka, 0100-0130 on 6035. The evening programme continues from 1330-1500, also 6035. The shortwave transmitter is located at Puttalam, having been originally used by the SLBC, and was moved to this site several months ago. (Station to Ogrizek Australian Dx News October)

SUDAN - Radio Omdurman 4994 The station has reactivated this frequency, heard at 2123 parallel 9165. (Foster OZDX No. 85 October) 9165 Heard signing off at 2300 on September 13th. (Price Fine Tuning No. 707 September 27th and John Wilson via Tom Sundstrom October 20th) They have been doing this since September 7th. The previous signoff was at 2200. (BBC Summary of World Broadcasts World Broadcasing Information No. 39 September 24th)

SWAZILAND - Swazi Commercial Radio 6155 see CLANDESTINES-AFRICA

SWITZERLAND - SRI Has agreed to supply the national radio stations of Burkina Faso and Rwanda with programs. SRI will provide the station with regular reports on international organizations in Geneva to be broadcast by them. (BBC Summary of World Broadcasts No. 40 October 1st) According to the Swiss PTT, budget cuts have compelled SRI to dramatically reduced its programs. The station is moving further into satellite

broadcasting - it now has 24-hour coverage of Europe, Central America, South America, and North America. There has been a new English service to North Western Europe from 2010-2030 on 6110, via a Schwarzenburg txer. (Ogrizek Australian Dx News October)

TADJIKISTAN see CLANDESTINES-

TAIWAN see CIIINA

TONGA - Radio Tonga 5030 is still off the air. The station's engineer says "there are problems with the connection between the studioline and the transmitter beyond the control of Radio Tonga". This line is provided by the Tongan Telecom Corporation and he could absolutely not predict if and when the station would return. (Rommerts undated report Shortwave News October)

VANUATU - Radio Vanuatu 3945 Also noted on 7260 but they signed off on this frequency at 0700. (Atkins Fine Tuning No. 707 September 27th)

VATICAN - Vatican Radio 7335 Heard on this new frequency with English programming from 0150 tune in until 0159 sign off. (Brian Alexander October 24th)

VIETNAM - This is the correct name for the following stations: Radio TV Son La, Radio TV Gia Lai and Radio TV Kon Tum according to their station id: Dai la Dai phut thanh va truyen hinh with the first three words meaning "Radio and TV". Other stations are still identifying as Dai phat thanh, that means "Broadcasting Station" or "Radio". (Takayuki Inoue Nozaki October 23rd)

Honoi-Home Service 4959.7 Heard on this new frequency at 1143. Parallel 4895 5924.6 1(0059. (Foster Numero Uno No. 1241 October

15th)

Radio Lao Cai (?) A new shortwave transmitter was put into operation in this city in September. (BBC Summary of World Broadcasts World Broadcast Information October 22nd) No times or frequencies given but the 1993 WRTH list the station on 5660 1030-1215. (HJ)

VIETNAM (SOUTH) - Radio TV Gin Lai 4787.93v Tentative 1143, Strong but very distorted audio, scratchy. Just bits of tlk by man and woman. If indeed Gia Lai, absolutely no way to get an ID unless audio improves dramatically. (Dave Valko Dxpedtion in Grayland State Park Washington October 8th)

UNITED STATES - WINB Recently, a 15 % share in this station was bought by Pastor Peter Peters. Currently, the station is on a

reduced schedule of 7.75 hours daily while modifications are being made to the antenna system. The single antenna on the property is a 3-stack rhombic, beamed to Europe, Africa and Latin America. However, the installation of an additional switchable feed point will enable coverage of Mexico from the one antenna. This was to have been completed before the end of September.

Two transmitters are located in the main building at Red Lion and the 50 kW Continental that is currently in use is the original unit from 1962. Two or three years ago, an additional used 50 kW GE transmitter was procured, but this has not yet been placed on the air. (Peterson Dx'ers Calling September

via Fred Kohlbrenner)

WYFR While in the area of Plymouth Rock in Massachusetts, I re-visited the old and famous transmitter site at Scituate. At the time of my recent visit, the site surely looks abandoned, with old rusted buildings, undergrowth so high that it could be called overgrowth, and the remains of a small mast which was used at one stage as an antenna. The famous brick kiln chimney is still standing too. Currently WYFR is commemorating the 20th Anniversary of their acquisition of the station with special historical interviews and items of air memorabilia. (ibid)

WEWN has decided to use only three txers on air - the fourth is intended to be on standby. (Frequency Manager of WEWN to Ogrizek

Australian Dx News October)

VOA via Plovdiv, Bulgaria in English is at: 1800-1900 13675 and 15080 0600-0630. (Padula Australian Dx News October)

Rich McVicar visited WCSN, Scotts Corners, ME, before returning to Ecuador. His wife's home is about 30 miles from Scotts Corners which Rich described as "a crossing of two dirt roads" near Bangor. He learned that Adventist World Radio had expressed interest in buying WCSN and had sent two parties to look over the site. (DX Partyline October 9th via Mike Fern)

see HAWAII

YEMEN - Radio Yemen-Sana' 9780v Started an English service in the middle of September. First not'd on September 17th with regional and national news, poetry and commentary. (Chris Sweitzer October 10th) It starts around 2100 and ids as You are tuned to the English Service from Yemen. The service lasts about half an hour. (Stephen Price September 27th) BBCMS first noticed this on October 10th (HJ) This program is a rebroadcast of the 1600-1630 English program carried by Radio Yemen-Aden. (BBC Summary of World Broadcasts World Broadcasts Information No. 43 October 22nd)

YUGOSLAVIA - Radio Belgrade 6185 is a new frequency with English from 2200-2245 (Padula Australian Dx News October)

EQUIPMENT - A French firm is making an accessory keypad for the Yaesu FRG-100. It is simple, well built, and plugs into the back of the receiver. The French prices is Fr.420. Postage is extra. Builder Jean-Paul Brodeur's fax number is +33 (875) 25567. It is available in Holland through C.I. Electronics, P.O. Box 22089, 6530-AB Nuth, for 135 guilders. The fax is +31 (452) 41877. Shipping is extra. (Media Network September 30th via Mike Fern)

EOUIPMENT BROADCAST GEAR An American audio processing system called Optimod has found wide use among international shortwave broadcasters because it is specially tailored to shortwave signal Over 200 shortwave stations requirements. were using the Optimod shortwave system in mid-1993. It was clear to Optimod's developers that the distortion and adjacent- channel interference problems on shortwave were much worse than on mediumwave. Optimod increases the average power in the sidebands and treats speech so that the human ear can better process the parts of speech that contribute to intelligibility.

A normal audio processor tracks its own gain to make sure that the output is as close to 100% modulation as possible. [This is oversimplified.] The equalizer adapts to the spectral level of the voice. If the consonant sounds (p, s, t, etc.) are weak, they are built up in order to improve readability on the receiving end. The human ear is mainly sensitive to frequencies between 1000 and 3000 hertz. [A male voice bunches around 700 hz, a woman's voice around 1100 hz.] A great deal of bass power [below 200 hz] can be transmitted without contributing much to loudness or intelligibility of the received voice, so the bass must be rolled off. This also keeps the processed audio output within the modulation capability of the xmtr. [When the modulation capability is exceeded the listener on an adjacent channel hears splatter.] Optimod uses a technique called compressor gating so that listeners do not hear the station announcer The compressor is restrained from shooting back to maximum gain during pauses; the gain is frozen at minimum during silence. (Jonathan Marks and Robert Auburn Media Network September 30th via Mike Fern)

PROPAGATION - The Dellinger Phenomenon is a sudden change in the ionosphere that interrupts shortwave communications. It is also called 'Dellinger effect' or simply 'fadeout.' It was discovered by an American engineer, John H. Dellinger.

It is related to solar flares or eruptions on the sun's surface. A scale tells how big the eruptions are. The sudden flares emit a lot of X-rays and ultra-violet rays which reach the earth's surface in less than 10 minutes. They disturb the D and E layers of the ionosphere, which reflect most shortwave signals back to earth. On the daylight side of the earth, these rays cause an unusual increase in the D and E layers' electron density. As a result the SW The shortwave bands go suddenly dead. signals are absorbed instead of being reflected, so nothing returns to the earth. The program one is listening to is replaced by a background hiss. Some very close stations may be heard even during a fadeout. That's beccause one receives the direct or ground wave rather than the reflected sky wave. The Dellinger phenomenon typically lasts for 10 minutes, but the band can go dead for several hours when a huge solar flare occurs. If all the bands do go dead, you can tune to medium wave to verify that your receiver is not at fault and a shortwave fadeout is in progress. (Masami Shimamura on Media Roundup September 20th via Mike Fern)

DX PROGRAMS - Rich McVicar, presenter for HCJB's Dx Party Line, now has an Internet account. His number is: rmcvicar@mhs.hcjb.com.ec (HJ)

Radio Japan has a short Spanish language Dx program entitled Noticiero Dxista on Sundays at 0353 on 11875 15325 125350 21610, 0953 9675 11875 and 2053 on 15380. (Tetsuya Kondo via Tom Sundstrom October 20th)

DX PUBLICATIONS - Due to work commitments and economic difficulties, Onda Corta has suspended publication for the time being. (Letter from Onda Corta publisher Gabriel Ivan Barrera October 8th)

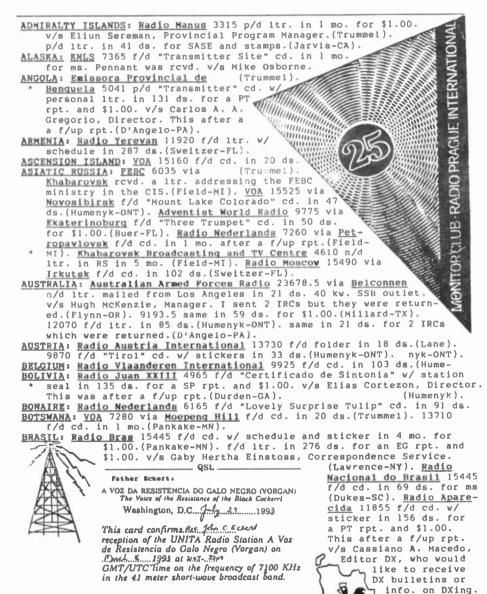
PUBLICATIONS - Radio Netherlands' English service has published a survey of receiver prices worldwide, which is available for the asking from Box 222, 1200 JG Hilversum. (Media Network September 30th via Mike Fern)

QSL Reports

Sam Barto 47 Prospect Place Bristol, CT 06010



(Durden-GA).



Signed:

Title: Office Directo

BRASIL: Sviss Radio International 17730 via Brasilia f/d "Two Bob's" URUSAN KERAJAAN cd. in 71 ds.(Humenyk-ONT). Date: 4.December 1991 BULGARIA: Radio Bulgaria 11720 f/d "Shiroka Luka" Cd. Rada Tassroon Maleysia Sarawa takes greet ∀/ schedule. in 130 of our SIDU ds. (Humenyk-ONT). 5,005 kEs + to MR. RITHERE A. D'AMBRIO. 5,005 MEs 100 0604 to 0619 hrs 27th November 1991-CANADA: CPVP 6030 f/d 2216 BUBICEY DELVE, ltr. in 10 ds. v/s LYGIZBSDIC. Ken Pasoli, Technical PA 19610; Director. (Trummel). V.S.A. Radio Japan 11735 f/d cd. in 40 ds. w/ schedule.(Lane). 5960 BROADCASTING HOUSE via Sackville f/d cd. in 1 mo.(Trummel) NOTES: Ross Comeau checks in to say that he enjoys the QSL Column, especially the illustrations... These are actually placed on sometimes months in advance of actually typing the QSL Column. I have quite a bit to choose from with all the material everyone sends in. Mike Hardester says the DX has been quite nil for a while. Hopefully the occasional QSL will find its way to my mailbox. Stewe Martin says he manages the family farm during the long summer months. Finally activity has slowed a bit so I can enjoy my favorite activity - SwLing! Joe Yadsko in Freeland, PA sent in a very nice icr. regarding reception of AIR. I sure hope that QSL is your because it isn't mine...Sam. CANADIAN PIRATE: Radio Beaver 7416 f/d "Car-toon Poster" in 95 ds. for ms.(D'Angelo). NA, PEOPLES REP. OF: China Radio International 9690 f/d cd. in 17 ds.(Levison). 9770 and 11715 f/d "Cloth Ornaments" cd. w/ paper cuts and pennant. (Levison-PA)... These are Mali and Spanish relays...sam. <u>Swiss Radio International</u> 7480 via <u>Xian</u> p/d cd. in 2 mo.(Barto-CT). CLANDESTINE: Democratic Voice of Burma 15180 via
Kvitsoy f/d folder map of Burma in 4 mo. PADIO IIIDGRAD v/s Maung Maung Myint. (Field-MI). SHIDU Titograd, Yugoslavia COLOMBIA: La Voz del Guaviare 6035 p/d 2 page Contiennan. personal ltr. w/ nice postcard in 357 ds. continuing your QSt card, we are and a SP rpt. on my 4th try. v/s Luis Ferthanking you for the report. nando Roman Robayo, Director (who requests we are sending every day from 05 to 25 h. that the SINPO code be utilized:)(Durdenlocal time on SES KHZ AND VIA PADIO GA). Ecos del Combeima 4785.6 p/d ltr. v/ \Gostavia all'intr pours
FM station stickers in 576 ds. on my 7th trys620+Hz. Ballo Hippord try. v/s German Acosta Ramos, Locutor Control. (Durden-GA). COSTA RICA: Radio For Peace International 7375 f/d cd. in 1 mo. for \$1.00 (Trummel). Spanish National Radio 15380 via Cariari f/d cd. w/o site w/ schedule and rpt. forms in 190 ds. for 1 IRC. (Flynn-OR). TIPC 5055 cd. w/ personal ltr. in 30 ds. for a SP rpt. and \$1.00. v/s Juan Ochoa F., Administrator. (Rodriguez-MI).

CZECH REP: Radio Ropa International 5980 f/d cd. w/ ltr. in 39 ds. w/ booklet and stickers. v/s Sabine K. Thome.(D'Angelo-PA). same in 2 mo. w/ ltr.(Field-MI).

Mr. John,	Dag 199 26,1921
Wave21	nst our broadcast duted23-10-91, on short
for your reference and record. Our new freque	ncy achedule is enclosed.
Sincerely Yours' Director, S) U.A.E. Radio from	Abu Dhabi

bouti 4780 p/d cd.
in 200 ds. for a FR
rpt. and \$1.00.(Lawrence-NY).

ECUADOR: HCJB 21455 USB
f/d "Agoyan Falls"
cd. in 62 ds. for 1
IRC. v/s Glen Volkhardt, Director of
Broadcasting.(Martin)

DJIBOUTI: Radio TV Dji-

NOTES: Al Dukes, Jr. says he		Post	Card .	<u>мация</u> 85c
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too bad considering the QSLs you've sent in.	Station	UL8T NT.	" SERRY KL	INCK T
QSLS YOU'VE SERE IN.	Dele	5-12-93		
ECUADOR: HCJB 21455 f/d	Time AESTA/TC	11.55 - 12.25 UTC	43 REIN	ROAD
cd. in 23 ds.(Lane).				
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10	2 ds.(Swe	itzer-FL).		
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A / det varga	o, derence.			
Radio Ro	asiv 7320	and 5940 via M	agadan p/d cd	. w/ sticker
* Radio Rossiy 7320 and 5940 via Magadan p/d cd. w/ sticker and schedule in 3 mo.(Barto-CT).				
PRANCE: China Radio International 9845 f/d cd. w/ sticker and				
magazine in 54 ds. (Humenyk-ONT).				
FRENCH GUIANA: RFO 5055 n/d cd. w/ stickers in 1 mo.(Trummel).				
GERMANY (West): Radio Free Europe 7255 via Biblis p/d cd. in 8 ds (Trummel). 7155 via Lampertheim p/d cd. in 8 ds.(Trummel). VOA				
(Trummel). 715	5 via Lam	pertheim p/d cd	. in 8 ds. (Tru	ımmel). <u>VOA</u>
Munich 3980 f/d zer-FL). 11965 v	"Sunrise	" cd. in 15 ds.	V/S John Vode	enik.(Sweit-
Welle n/d "Reunif	ication"	od in 1 mo /Hu	menykONT) Si	dvestfunk
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GREECE: VOA Kavala 97			itzer). 6140 a	and 11805
f/d cd. in 20 ds.(T			10201/1 0140 0	
GUATEMALA: Radio Naya 3		d. in 1 mo. for	a SP rpt. v/s	Jose Cast-
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HOLLAND: Radio Nederland				
HONGKONG: BBC 11820 f/d		6 ds. for \$1.00	. v/s Philip S	Sandell.(Tru-
mmel). <u>VPS60</u> 13020.4				
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(Trymmel).				
HUNGARY: Radio Budapest 11910 f/d cd. w/ sked		10101 -	L	
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			VERSEAS SERVICE VOI	

Radiodiffusion de la République Rwandaise

RADIO RAR AWANDA

B.P. B3, Kigali Tél. 75665—75666 Télégrammes, Radio Rwanda Q.S.L. Card

via Wendel Craighead

<u>ICELAND</u>: <u>INBS</u> 13855 and 15770 f/d cd. in 1 mo. for \$1.00. (Trummel).

INDIA: All India Radio 3355 via
 Kurseonq f/d "Kesav Bhavan"
 cd. in 227 ds. for a rpt. direct to station...reply came
 from Delhi. (D'Angelo-PA).
9910 and 11620 f/d cd. w/ sked.
in 102 ds.(Humenyk-ONT).

ISRAEL: Kol Israel 15640 f/d cd.
w/ schedule in 37 ds.(Humenyk-ONT).

ITALY: RAI 11800 f/d "Gian Lorenzo Bernini Statue" cd. in 396 ds.(Martin-CA).

JAPAN: Radio Tanpa 3925 and 6055 f/d cd. in 10 ds!!! I still can't believe that: (Trummel). JJY 8000 f/d "50th Anniversary" cd. w/sticker and info. sheet in 11 ds.(Trummel).

KIRIBATI: Radio Kiribati T3K1 17440 f/d "Classic photo of Native Fisherman w/ Shark" in 35 ds. for \$1.00.(Martin-CA).

VERIFICATION SIGNERS: Radio Maya 3325 Jose Castaneda. Radio Miskut 5770 Mercado Perez, Director. Radio El Mundo 6015 Freddy Banegas C., Gerente. Radio Fides 4845 Eduardo Perez Juilano, Director. Radio Juan XXIII 4965 Elias Cortezon, Director. Radio Nacional Sao Cabriel de Cachoeira 3375 Luiz dos Santos Fransa, Gerente. Radio Super 6065 Juan Carlos Pava Camelo, Gerente. Radio Buenaventura 4835 Mauricio Castano Angulo, Gerente.

KUWAIT: Radio Kuwait 13620 f/d cd. in 73 ds.(Dukes-SC). same in 393 ds. for 2 IRcs. Schedule and sticker rcvd.(Martin-CA).

<u>LEBANON: Wings of Hope</u> 11530 via <u>Marjayoun</u> personal ltr. w/ schedule in 199 ds.(Humenyk-ONT).

LESOTHO: LNBS The Voice of Lesotho 4800 f/d "Flag" cd. in 113 ds. for 2 IRCs. (Martin-CA).

LITHUANIA: Radio Vilnius
12070 f/d cd. w/ schedule
in 35 ds.(Lane).

MALAGASY REP: Radio Nederlands 9890 f/d cd. in 70 ds. for 1 IRC.(Clar-NY).

MEXICO: XEPPM Radio Educacion
6185 p/d cd. w/ sticker in
42 ds. for a SP rpt. and
\$1.00.(Trummel). p/d cd.
in 343 ds. for a SP rpt.
and \$1.00. v/s Lic. Luis
Ernesto Pi Orozco, Director General.(Clar-NY).
f/d cd. in 129 ds. for a
SP rpt. and \$1.00. Program schedule was rcvd.
(Martin-CA).

MOLDOVA: Radio Moscow 17760
and 17815 via Kishinev
f/d "Fountain" cd. in 102
ds. (Sweitzer-FL). 11790
f/d "Kremlin" cd. in 5 wks
w/ schedule. (Sgrulletta).
17815 f/d "Arbat Square"
cd. in 5 wks. (Sgrulletta).
15290 f/d "Peoples Friendship House" cd. in 5 wks.
(Sgrulletta). 17780 same
cd. in 5 wks. (SgrullettaNY).



30 7 11 1111

10 15 m

MONACO: Trans World Radio 9480 f/d "Map" cd. in 70 ds. for 1 IRC. Schedule was rcvd. (Martin-CA). MOROCCO: VOA 15410 f/d "Antenna" cd. in 20 ds. My BAD10 QSL was hand-delivered by John Vodenik who was vacationing in FL! (Sweitzer-FL). f/d "Sunset at Greenville" cd. in 43 ds. NEW BRITAIN: Radio East New (Flynn-OR). Britain 3385 p/d ltr. in 7 wks. after a f/up rpt. for 2 IRCs. and \$1.00. v/s O. Malatana, Provincial Program Manager. (Carter-WA). Radio West New Britain 3235 p/d ltr. in 6 wks. for 2 NOICE IRCs. and \$1.00. v/s Esekia Mael, Provincial Program Manager. (Carter-WA). NOTES: Stephen Jarvis checks in from Long Beach, CA with some very nice QSLs from PNG. Other than that the summer has been rather slow. Mark Anderson echoes the same sentiments by saying that he is in need of some positive reinforcement from his mailman. Marina Pappas says that in a recent letter received from VNG that the Llandilo site may be uncertain in the future. Marina is working towards the seven (7) station Australian Award. Can VNG be counted? Don't know. NEW IRELAND: Radio New Ireland 3905 p/d ltr. in 23 ds. for SASE and ms. v/s Ruben Hale. (Jarvis-CA) NEW ZEALAND: Radio New Zealand International 9700 p/d RADIO "Lake Matheson" cd. w/ NEW. YORK schedule and sticker in 45 ds. for \$1.00. (Trummel). 15120 p/d cd. w/ sticker and schedule INTERNATIONAL in 71 ds. for 3 IRCs.(Poston-IA). same in 2 mo. w/ schedule. (Field-MI). ZLXA June Shawn 3935 f/d cd. w/ personal ltr. **ганония**ся: 7435 27,1992 and schedule in 2 wks. for ~9.PM 11368 \$1.00.(Trummel). 14 Prospect Crive Yonkers, New York 10705 NORWAY: Radio Norway International 11795 f/d cd. w/ sticker and schedule in 44 ds.(Lane). MARKET SANDATAY 15365 f/d cd. w/ schedule and decal in 45 ds.(Dukes-SC).

15365 f/d cd. w/ schedule and decal in 45 ds.(Dukes-SC). mmel).

PALAU: KHBN 9830 f/d "World Radio Network" cd. in 1 mo. for \$1.00.(Tru-PAPUA: Radio Southern Highlands 3275 p/d ltr. in 1 mo. for \$1.00. v/s

Andrew Meles, Provincial Station Manager.(Trummel). p/d ltr. in 3 wks. for 2 IRCs. and \$1.00.(Carter-WA). Radio Sandaun 3205 f/d "Map" cd. w/ personal ltr. in 1 mo. for 2 IRCs. and \$1.00. v/s Paia Ottawa, Technician.(Carter-WA). p/d ltr. in 49 ds. for \$1.00. v/s Elias Rathley, Provincial Program Manager.(Lawrence-NY). Radio Eastern Highlands 3395 f/d ltr. in 3 wks. for 2 IRCs and \$1.00. v/s Kiri Nige, Technicial Manager.(Carter-WA).Radio Western Highlands 3375 f/d cd. w/ nice personal ltr. and postcard in 3 wks. for 2 IRCs and \$1.00. v/s Esau Okole, Station Technician.(Carter-WA).

PARAGUAY: Radio Nacional de Paraguay 9735 f/d "Map" cd. w/ personal ltr.

Mr. Robert Christensen.....

Date: Nov 23, 1991

Sir,

Our engineering department has verified your report's details and found them correct / wrong.

Many thanks for your interest in our 150ellah.... service and we are pleased so send you this QSL Card for your reference and record. Me/confirm-your reception on toth and 11th November 1991 on 11965 KHZ of our broadcasts.

Sincerely Yours'

Director,

U.A.E. Radio I com Apu Driabi

in 241 ds.
for a SP rpt.
and \$1.00.
v/s Filemon
Arguello M.,
Jefe de Recuros Humanos.
Rcvd. via registered mail.
(Comeau-MA).

PERU: Radio Vision 2000 5131 f/d cd. in 3 mo. for a SP rpt. via Well Pennant was rcvd. (Field-MI). Radio Madre de Dios 4953 f/d "Map" cd. w/ xeroxed info. sheet in 56 ds. for a SP rpt. and \$1.00. (Durden-GA). Radio Tarma 4775 f/d "Constancia de Recepcion" form 1tr. in 89 ds. for a SP rpt. and \$1.00. v/s Mario Monteverde Pomareda, Gerente General. (Durden-GA). Radio Tacna 9505 f/d personal 1tr. in 133 ds. for a SP rpt. and \$1.00. Small pennant was rcvd. v/s Yolanda Vda. de Caceres, Directora-Gerente.(D'Angelo-PA). f/d 1tr. w/ pennant and de-

cal in 234 ds. for a SP rpt. (Durden)

VERIFICATION SIGNES: Radio Mashhad 9640 J. Ghanbari, General Director. Radio Station Nadezhda 7280 Miss Tatiana Zeleranskaya, Editor in Chief. Slovak Radio 5915 Richard Guga. La Voz del Cuaviare 6035 Fernando Roman, Director and Jairo Hernan Benjumea, Gerente. Radio Inconfidencia 6010 Addr: Avenida Raja Gabaglia 1676, Bairro Luxemburgo, Belo Horizonte, MG 30350-540. Radio Ropa Info 5980 Miss Sabine K. Thome. Radio Cima Cien 4961 Roberto Vargas. Radio Quisqueya 6205 Lic. Gregory Castellanos Ruano, Director.

PERU: Radio Navlamp 4300 p/d "Logo" cd. w/ prepared cd. in 19 ds. after a f/up rpt. in SP for \$1.00. v/s Dr. Juan Jose Grandez V., Director. (Wilkins-CO).

PHILIPPINES: VOA 15160 and 15425 f/d cd. in 15 ds.(Sweitzer-FL). 12040 f/d cd. in 1 mo.(Barto-CT). 9760 and 15160 via Tinang f/d cd. in 20 ds.(Trumme1). PEHC 11690 f/d "Hibiscus in Bloom" cd. in 86 ds. w/ sticker. v/s Janie Reid.(Millard-TX).

POLAND: Radio Polonia 11840 f/d "Gorzow Wielkopolski" cd. w/ personal ltr. in 56 ds. for 2 IRCs. Also rcvd. postcard and schedule. v/s Rafal Kiepuszewski.(Martin-CA).

PORTUGAL: Radio Portugal International 17745 f/d "Old World Map" cd. in 31 ds. w/ sticker and schedule (Humenyk-ONT). 9570, 9635, 9705, 9600 and 11840 p/d "Map" cd. in 7 wks. w/ schedule and sticker. v/s Winnie Almeida, Producer and Host of the English Service.(Barto-CT). RFE 9725

RADIO HORIZONTE OCX-17-770 Kh

Chicleye, 13 de Junio de 1992

Sefor Adle Durden 207 Seca Drive Albemy, Georgia 31705 Estados Unidos.

apreciado anigo:

Hes es grato dirigirmos a Ud. dándole ouestro más dincero y cordial saludo, al mismo tiempo agradecerle por eu atenta carta de fecha 05/04/32. Cos respecto a ceta carta le sanifestamos que no fue recibida por nocetros; quisás se extrevío as el correo.

sin embarge, nes permitimos informarle, que su iniorme de Focepción es la correcta. Asimieno, le manifestance que nuestra radia se fundó el lere. de Marso de 1992, por le tanto, semes una emisora jevem; con apenas 4 mases em el aire y la única escuchada en el extranjero. Así también tenemos informo de recepción de, Finlandia, Italia, Juecia y ME.UU.

Esperamos siga manteniéndo nuestre sintonia, come también seguir comunicándonos por medio de siguna tarjeta e carta que será siempre la portadora de una amistad duradora y mimerra.

Besde Chielays-Perú, reciba un cordial caludo do todos los que laboramos en esta estación.

Cordialmente

JVR/epe

Bangray de Rydindilydor Markey Bangray Chekens Markey Company Markey Company Described Company Described Company via Maxoqueria p/d cd. in 8 ds.(Trummel). 11725 via Gloria p/d cd. in 8 ds. (Trummel).

OATAR: Oatar Broadcasting
Service 9715 f/d "Map"
cd. w/ station booklet in
255 ds. for an AR rpt. &
\$1.00. v/s Jassim Mohamed
A1-Qattan, Head of Public
Relations.(Hardester-NC).

ROMANIA: Radio Romania International 9570 f/d cd. w/ personal ltr. in 99 ds. w/ sticker and guide book. (Rodriguez-MI). f/d "Romanian Athenaeum" cd. w/ schedule in 90 ds.(Levison-PA).

SAIPAN: KHBI 17865 f/d cd. in 75 ds.(Humenyk-ONT). 13625 f/d "Antenna Array" cd. in 43 ds. v/s A. Hgisaio, KHBI Staff.(Humenyk-ONT).

SINGAPORE: BBC 15380 f/d cd.
in 22 ds. for \$1.00.(Comeau-MA).

SLOVANIA: Slovak Radio 9810

f/d form 1tr. w/ schedule
and sticker in 24 ds.(Poston-IA). f/d cd. in 37 ds.
for \$1.00.(Lavrence-NY).

SLOVAKIA: Slovak Radio 5930 and 9810 f/d cd. w/ postcard signed by staff members in 32 ds. (Lane). Radio Slovakia International 5930 f/d cd. in 18 ds. for \$1.00. Also rcvd. 4 station pins, schedule and sticker.(Comeau-MA).

SOUTH AFRICA: ZSC Time Station 17018 f/d cd. in 49 ds. for \$1.00. (Trummel). Channel Africa 9695 f/d "Tabletop Mountain" cd. in 92 ds. w/ sticker.(Millard-TX). f/d cd. w/ schedule and sticker in 35 mo. for \$1.00.(Pankake-MN). f/d "Kaaroo" cd. w/ sticker and schedule in 123 ds. for \$1.00.(Poston-IA).

SPAIN: Spanish Foreign Radio 9530 f/d cd. w/ schedule in 74 ds. (Dukes-SC). same w/ sticker and schedule in 134 ds.(Lane). Radio Free Europe 7220 via Playa de Pals p/d cd. in 8 ds.(Trummel).

SRI LANKA: VOA 15250 f/d cd. in 29 ds.(Humenyk-ONT). Sri Lanka Broad-

casting Corp. 15425 f/d cd. in 100 ds. w/ schedule and a personal ltr. v/s J.A. Lal Herath, Deputy Director General Engineering.(Comeau-MA). SUDAN: National Unity Radio 9435 n/d cd. in 2 mo. v/s Mohammed El Fatin.

Radio TARMA

OCK41 1910 KHZ DMBA MEDIA GCA46 4 315 RM2 DMBA CORTA GCM4A 965 MM2 5 M 511 MCD

(Field-MI).

TAPMA 28 DE JUNIO DE 1993

CONSTANCIA DE RECEPCION DE RADIO TARMA ESELUI-

JERRY ELISCE AS CESE BOAD PEST SENECA N.T. 14224 U.S.A.

ESTRUMBU ANNAUAL

INFORMACION OSHERAL DE RADIO TARMA

ousse compresse quer install una inhuma el 27 de Abré, de 10 NS, os replaneste constituir s. Oppressente ses dissolutares esperimen restrictore de Osalias Mediu y 4 una y viva pres-creze, Marchin plumpto de republishita el 1

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BLLE BOMMER

AN MINDA MARKA DE 11 M G.M.F + 01,00 G.M.F. AN WARA THREA DO IS OF G. M. F. + 01 OF L. M. F. EN I M. STARROU DO IANO G.M.F. + 01 OF G.M.F.

VERIFICATION SIGNERS: Poland Scout Radio 7205 Andrew Borodzicz. Adventist World Radio Gabon 17890 Daniel Grisier. Zambia National Broadcasting Corporation 4910 William Lukozu. Radio Alpha and Omega 9795 Elena Yasnova, Executive Manager. Radio Nadezhda Tatyana Zeleranskaya, Editor-in-Chief. Radio Veritas Asia 15140 Ms. Cleofe R. Labindao. Qatar Broadcasting Service 17825 Jassim Mohammed Al-Quattan.

SUMATERA: RRI Jambi 4925 f/d ltr. in 3 mo. for an IN rpt. (Barto-CT). SWITZERLAND: Swiss Radio International 21820, 17670, 13635 and 15505 p/d (Pankake-MN). "Merry-Go-Round" cd. in 2 mo.(Barto-CT). TAIWAN: WYPR 11550 via Voice of Free China f/d cd. in 10 ds. for \$1.00.

TANGIER: YOA 15205 f/d "Sunrise at Greenville" cd. w/ personal ltr. in 3 yrs. for ms. (Eckert-PA). f/d cd. in 20 ds.(Trummel). f/d cd. in 2 mo. v/s John Vodenik (Carter-WA).

THAILAND: YOA 11785 via Udorn f/d cd. in 1 mo. w/ personal QSL cd. and note. (Barto-CT). same in 32 ds. after a f/up rpt. v/s Dan Ferguson. (Wilkins-CO). 11820 f/d "Thai Transmitter Test" cd. in 20 ds.(Trummel). 9615 same in 1 mo. after a f/up rpt.(Carter-WA)...C/V *100:::....Great: 7215 cd. in 9 ds.(Martin-CA). Radio Thailand 11905 f/d "Stamps of Thailand" cd. w/ schedule and pennant in 49 ds.(Millard-TX). same in 2 mo. w/ schedule.(Barto-CT).

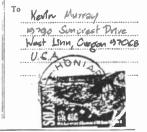
TIHET: Xizang PBS 4035 f/d cd. issued by the "PTT of Tibetian Autonomous Region" in 226 ds. Also This confirms your reception of:rcvd. stamps. v/s Lobsang Chompel. C/V #215! It was worth it. (Flynn-OR).

TURKEY: Voice of Turkey 9445 f/d cd. w/ sticker and schedule in 60 ds.(Lane). f/d "Chest" cd. w/ schedule and sticker in 2 mo.(Poston-IA).

- SOLOMON ISLANDS BROADCASTING CORPORATION

Date: 21 at 12 OSL CONFIRMATION 9545 kHz; on 4 29 112 from _______ (G.M.T.) 5020 kHz; on from _____ (G.M.T.) I sent a thank you note. 1034kHz:on from (C.M.T.) ; on _____ from ____ (G.M.T.) The transmission had an aerial power of kilowatts. Thank you for your report, and we wish you good DX'ing. S.J.B.C. P O Box 654, HONIARA. S.I.

SIBC/20.



STAMPS OF THAILAND

















Radio Mailand

TURKEY: Voice of Turkey 9445 f/d cd. w/ pennant, stickers and schedule in 20 ds. (Trummel). same in 44 ds. (Humenyk-ONT).

UKRAINE: Radio Ukraine International 15195 f/d cd. w/ schedule via registered mail in 105 ds. (Lane). Radio Moscov 15290 via Ivano-Prankovsk f/d cd. in 102 ds.

USA: KJES 11715 f/d cd. in (Sweitzer). 12 ds. for ms.(Trummel). f/d postcard in 10 ds. for ms. (Sewitzer-FL). f/d cd. w/ personal ltr. in 2 wks. v/s Michael Reuter, Manager. (Field-MI). WHRI 9465 f/d cd. w/ schedule in 75 ds. for ms. (Dukes-SC). 13760 f/d cd. w/ schedule in 91 ds.(Lane). 7315 f/d "Logo" cd. in 108 ds. v/s J. Loren Holycross.(Humenyk) f/d cd. v/ schedule in $3\frac{1}{2}$ mo. for \$1.00. (Pankake-MN). WCSN 15665 f/d cd. in 3 wks. for ms.(Pankake-MN). WSHB 13760 f/d cd. in 13 ds.(Trummel). 5850 f/d cd. in 27 ds.(Lane). KTBN 15590 f/d "Antenna" cd. w/ newsletter in 35 ds. for ms.(Sweitzer-FL). same cd. w/ schedule in 42 ds. (Trumme1). KCBI 15375 f/d cd. in 45 ds. (Trumme1). WYFR 9505 f/d "20th Anniversary" cd. in 13 ds. for ms.(Poston-IA).

WJCR 7490 f/d cd. in 18 ds.(Trummel). WWV 15000 f/d cd. in 17 ds. v/s John B. Milton, Engineer-in-Charge. (Comeau-MA). WWCR 7435 f/d cd. w/ schedule in 24 ds.(Trummel). La Voz del OAS 9565 p/d cd. in 20 ds. ZIP is 20006-4499 not in 93 WRTH.(Trummel). WEWN 9350 f/d cd. w/ltr. and schedule in 26 ds. (Trummel).

VERIFICATION SIGNERS: RRI Tanjung Karang 3395 R. Djarot Nursinggih, Engineer. RRI Sorong 4875 Mrs. Tien Widarsanto. RRI Pontianak 3995 David Hamzah. RRI Pak-Pak 4790 Richart Tan. RRI Jambi 4925 A. Tjang Abbas. RRI Nabire 5055 Muchtar Yushaputra, Station Manager. Radio Thailand 9655 Bubpa Laemluang. VOA Thailand 7215 John Vodenik, Engineer. Radio Satelite 6724 Sabino Llamo Chavez, Gerente. Radio Santa Rosa 6045 P. Juan Sokolich A. Radio Nuevo Cajamarca 5800 Aladino Gavidin Huaman.

USA: VOA Greenville 9455, 15330 and 15410 f/d cds. w/ schedule and poster in 30 ds.(Humenyk). 5995 f/d cd. in 63 ds.(Dukes-SC). 15580 f/d "Sunrise" cd. in 15 ds.(Sweitzer-FL). 6035 f/d cd. in 20 ds.(Trummel) Travelers Radio 1610 via Kenosha, WI f/d cd. in 1 wk. on my second try.(Field-MI). Radio Bosnia-Herzegovina 7315 via WHRI f/d ltr. in 2 wks. (Field-MI).

(Pirates): The Ground Level Network 7465 f/d cd. w/ data sheet in 19 ds.(Arey-NJ). Altered States Radio 7415 f/d "Dead Rock Star" cd. w/ info. sheet in 18 ds. v/s William Hurt. (Arey-NJ). f/d cd. #18 of Bob Marley. in 2 mo.

OSL Verification

(Lobdell-MA). Solid Rock Radio Radio RADIO REPUBLIK INDONESIA NUSANTARA IV UJUNG PANDANG 7465 f/d cd. in 10 ds. for \$1.00. Kepada Yth. Tuan _ JOHN L. SCRULLETTA (Comeau). WREC

Ini membenarkan laporan tuan dari Radio RRI NUS. IV UJUNG PANDANG 7413 f/d sheet in siaran pada gelombang 63.15 meter atau frekwensi 4750 kHz., 30 ds. for 3 ms. pada PEMAKATAN 19.56 dari sampai SEKARANC (Comeau-MA). waktu Indonesia Bagian TENGAH Pemancar kuasa studi Pemancar kuasa studio

VATICAN: Radio Vat- kami 20,0kw. dengar DELTA MATCH antena. Banyak terima kasih untuk laporan tuan.

ican 11620 f/d cd. in 77 ds. (Dukes-SC).

Good QSLing till next month...Sam MASI SURAT HENYURAT



Tropical Band Loggings

Sheryl Paszkiewicz 1015 Green Street Manitowoc, WI 54220



2340	CHINA Fujian PBS, 9/13, 1354 advanced EG lesson, all EG.
2390	1400 TP, theme mx, CH nx, poor (Flynn-OR) CUATETALA LV de Atitlan 10/3 0156 lang tlk, 0201 ID
2490.8	(Valko/Johnson-PA) BRAZIL R Oito de Setembro 10/7 2337 1cl nx, sev ments of
2500	CTH, 2359 ID, pops (Crr-VA) AUSTRLIA VNG 9/18 1123 w/ID, freq, addr during 25th minute
3220	fair, xmtr uses compatible USB (Clark-ON) UNID 9/24 1050 suspect CPBS-1, CH mx, YL tlks, buried in ORN 1100, no sign of Morobe (Rippel-VA)
3230	SOUTH AFRICA SABC 9/29 0300 TP, ID, anthem, AK nx, Amer. C&W 7/4810 (Lawrence-NY) Afrikaans Stereo-sp.
3255.1	ERAZIL R Educadora 10/3 0127 inst1, 0131 jingle ID (Valko/Johnson-PA)
3264.8	SUMATRA RRI Bengkulu 10/7 2245 choral mx, poss rel pgm, 2258 instl theme, SCI, tlk, anthem (Orr-VA) 10/3 2250 had been at better lvl but kept trying for ID. Best we could do was SCI 2300, so presumed (Valko/Johnson-PA)
3266.5 3279	SULAVESI RRI Gorontalo 1227 echo anmt, jingles (Brown-MO) ECUADOR LV del Napo 10/10 0930 "Estudio la Voz del Napo domingo" church bells, SP/Quechua, good (Robinson-TN)
3300	GUATEMALA R Cultural 0330 EG ID, rel pgm from Pasadena, CA (Bilec-PA)
3316	PIERRA LEONE SLBS 10/6 0559 EG NA, ID, Koran, 0605 Christian pgm (Crr-VA) 9/18 0657 EG tlk, drums, pop mx, IDs (Luwrence-NY) 10/5 2205 EG intl nx, "This nx comes to you from the SLBS in Freetown." cmtry on ANC, Stevie Wonder mx fair to 2230° (Rausch-NJ)
3325	NEW BRITAIN R North Solomons 9/19 1115 unusually good w/
3326 3335 <u>p</u>	"Everytime you Go," no sign of Palangkaraya (Clark-ON) NIGERIA R Nigeria 9/29 2205 EG jazz pgm //4990 (Lawrence-NY) SWAZILAND TWR 9/27 0310 lang, rel sounding tlk, organ, tlk in probable Afr. lang (D'Angelo-PA)
3366	GILANA GBC-2 10/5 2240 EG reggae mx, "This is Radio 2 of the GBC," 2300 nx (Rausch-MJ)
3375	ERAZIL RN Sao Gabriel 8/21 0918 heavy echo anmts, ads, RN jingle, full IDs, Brasopop ballads (Orr-VA)
3385	NEW GUINEA R Morobe 9/24 1105 PD nx cmtry, good sig (Rippel-VA) Chuck, did you mean R East New Britain?sp.
3395.1	SUPLITRA RRI Tanjungkarang 10/3 2225 tlk, AR mx, 2228 strange mx, couple IDs (Valko/Johnson-PA) 10/7 2231 poss lcl nx, 2239 W ID, Indian sounding mx (Orr-VA) 9/18 2305 peak lvl w/Jak nx but poor/Noisy overall (Clark-ON)
39C5	TRIAN JAYA RRI Merauke 9/19 1057 fair thru somewhat stronger
3955 3985	PNG w/Muslim mx, vcls, 1202 Jak nx (Clark-ON) ENGLAND BBC 0600 EG intl nx (Bilec-PA) SWITZERLAND SRI 0600 EG nx, ID, freq, TC, addr (Bilec-PA) IRIAN JAYA RRI Manokwari 9/26 1058 IN anmts, 1cl IS, 1100
3987.2 <u>p</u>	IRTAN JAYA RRI Manokwari 9/26 1058 IN anmts, 1cl IS, 1100 not //9680 Jakarta, poor, 1158 EZL, SCI, Jak nx now //9680 (Clark-ON)
4299.8	PERU R Naylamp 8/21 0846 guitar ballads, huaynos, TC, ID sev ads, IDs (Orr-VA)
4510.2	PERU R Paucartambo 9/15 1023 duet huaynos, rapid fire tlk 1029 clear ID, tnx Valko (Orr-VA)
4600.1	BOLIVIA Perla del Acre 10/6 0229 evening non ballads. 0301
4605.1 4610	S/Off anmts, ID, no NA (Grr-VA) IRAQ Baghdad 9/5 *0155 bird IS, anmts, NA, Koran (Alexander) ASTATIC RUSSIA Khabarovsk R 9/23 1318 RS pop/rock, 1400
4725	6 TP, nx, on-scene rpts, fair (Flynn-OR) MYANMAR Vo Myanmar 1254 minorities pgm, YL & folkloric mx weak & fading (Brown-NO)

4740	TADJIKISTAN R Yunost 10/6 0015 RS pop mx pgm, W IDs, tlk, mx bridges (Orr-Va)
4747	PERÙ R Huanta 2000 10/1 1000 NA, anmts, full ID, devotional folk mx, msgs in Quechua, slogan "La Bella Esmeralda de
4753.4	los Andes." (Durden-GA) SULAWESI RRI Ujung Pandang 8/21 1120 pops, anmts, mx w/ Griental touch, poor mod (Newbury-NE) 10/7 2148 tlk, lagu pops, 2159 full ID, SCI, 2200 nx (Orr-VA) 10/3 2157 mx deep fade, ID, SCI, Clark's info appreciated (Valko/Johnson) 9/18 2200 Jak nx, lcl IS 2230, slow fade down (Clark-OH)
4753.8	<u>BRAZIL</u> R Educacao Rural 9/11 0155 lively pops, ads, anmts (Davenport-TN)
4760 <u>p</u>	INDIA AIR Imphal 9/27 1130 Hindi tlk mixing w/China, no EG nx 1130 but subcont mx, tnx India Broadbase & Clark. Gone by about 1143 (Johnson-ND)
4760	LIBERIA ELBC 8/21 0727 EG w/afropops //7275. (Orr-VA) ELMA 10/5 2139 EG rel, hymns, prayer, 2159 s/off annts, full ID, QTH, freq, NA (Grr-VA) 9/10 2145-2200° EG rel w/choral mx, ID, NA (Alexander-PA)
4775	PERU R Tarma 9/3 1021 anuts, TCs, ID/slogan, La pops & Andean mx, fair (Clar-NY)
4777	GABON Rdf Gabonaise 9/21 2155 FR hilife mx, "Ici Gabon," regional nx (Rausch-NJ) 9/8 to 2301* hilife, chatter,2230 nx, ID, orch NA (D'Angelo-PA) 2230 hilife mx, FR YL, rising above CW ORM (Brown-WI)
4779•7	ECUADOR R Central, Tena, 10/3 0940 carrier, 0956 NA, full ID giving NW freq, "Bienvenidos oyentes Oriental," TC, LA mx, addr Casilla 260. (Berg-MA) 10/4 *0957 NA, anmts, LA mx (Rausch-NJ) 9/20 0958 NA, ID, salsa mx, TCs (Orr-VA) 9/26 1002, IDs, TC-5 y 8 minutos en Oriental (D'Angelo-PA) 9/24 1020 "Oriental tropicalisima," ads, comunicados, "Alegria Ecuatoriana." (Durden-GA)
4779.9	DOM REP Onda Musical probably the one I hrd 9/23 after reviewing my tape (Johnson-Mb)
4785.5	CCLOMBIA Ecos del Combeina 9/2 0226 futbol coverage, sev ments Colombia, ad string, ID 0230 (D'Angelo-PA)
4790	PERU R Atlantida 10/3 1030 IDs, "Jealousy" nx, fair (Robinson-TN)
4795	ECUADOR LV de los Caras 9/12 0514 TCs, IDs, ment Bahia de Caraquez, pops, ballads, fair (Clar-NY)
4795	UKRAINE RMS 9/29 to 2300° EG Mailbag pgm, ID, theme mx before carrier cut (D'Angelo-PA)
4799.8	GUATEMALA R Buenas Nuevas 9/25 to 0331* SP tlk, ranchera mx lcl rel choral mx, IDs, s/off w/instl tune (Alexander-PA)
4801	9/17 1130 singing w/guitar, tlk, gospel mx, good (Newbury) PERU R Onda Azul 10/3 1005 Quechua NA, s/on anmts in SP, morning mx pgm, YL in Quechua (Durden-GA)
4804.6 4810	PERU R Villa Rica 9/24 1026 huaynos, TCs, IDs ment QTH (Crr) ASTATIC RUSSIA Vladivostok 10/9 0045 RS Hayak prm //4485 RS ballads, Kremlin bells, Mayak ID (Orr-VA)
4810	SOUTH AFRICA R 2000 9/27 0102 continuous pops & EZL, fair, no ID so presumed (Clar-NY) 9/27 0230 AK ZZL, TP, into
4813.8	Afrikaans Stereo ID, nx (Rausch-NJ) UNID 9/19 1115 rather weak but steady carrier here, poss Vietnam or who?? (Clark-ON)
4815	BURKINA FASO RTV Burkina 9/19 2230 FR & lang, W afr pops,
4820	poor but no QRM (Brown-VI) HOHDURAS HRVC 10/8 1100 IDs, prayer, "Buencs dias hermanos y hermanas" (Robinson-TN) 9/17 1145 ID, promos, secular mx,
4820.9	salsa, exc (Newbury-NE) PERU R Atahualpa 6/19 0910 wild huaynos, ID, TC "R Atahualpa
4824.5	en Santa Cruz, Cajamarca," canned ID, pops (Orr-VA) PERU LV de la Selva 9/24 0955 NA, 1000 dance mx, mensajes, TCs, 1010 ID (Orr-VA)
4825	GUATE/ALA R Mam 9/23 1210 SP/vern discuss on Acts, Christian mx, ID, reflections on govt corruption, good (Durden-Ga)
4826.2 <u>t</u>	PERU R Sicuani 10/3 1019 Quechua huaynos, poss ment Sicuani TC, faded out (Durden-GA)

```
4830
                            VENEZUELA R Tachira 9/10 0200 SP sports event, maybe
                            futbol, fiery anner, ID, good (Newbury-NE)
  4835
                            GUATEMALA R Tezulutian 9/17 1150 ID, mucho marimba mx,
                            exc (Newbury-NE)
*4835
                            PERU R Maranon 10/7 1000 NA, full ID, addr, devotional,
                            rooster crows, huaynos "La Voz y el Sentir de nuestros
                            Pueblos" (Durden-GA)
                           LAURITANIA ORTM 9/5 0632 Koran, Afr mx, in 30 min they drifted to 4830.3 (Alexander-PA)
  4837
                           BRAZIL R Bandeirantes 10/3 0845 IDs, tlk // but slightly ahead of 6090, not sure of exact site (Valko/Johnson-Pa) GUATEMALA R Kekchi 9/12 0345 sulsa, ment Las Casas, SIO=442 in heavy static (Newbury-NE)
MALAYSIA RTM Kuala Lumpur 9/26 1140 Tamil pgm, rel, poss
  4838.5
 4845
 4845
                           Koran, no sign of Guatemala (Clark-ON)
ASIATIC RUSSIA RH 9/30 2205 EG intl nx, Focus on Asia &
 48E0
                           the Pacific (Rausch-NJ)

MCCUCCAS RRI Ambon 9/18 past usual 1130* muddy audio, also at 2200 strong carrier peak (Clark-ON)
 4863.9
                           BOLIVIA R 16 de Marzo 9/24 0922 huaynos, IDs, mx, tlks, poor mod, killer sig! No HJ today (Orr-VA) COLAMBIA LV del Cinaruco 9/12 0330 anmts, pops & salsa,
 4864.4
 48E5
                           fair (Newbury-NE)
 4874.6
                           IRIAN JAYA RRI Sorong 10/4 1131 EG pgm which had been on
                           Sundays, EG lesson (Valko/Johnson-PA)
 4875
                           BRAZIL Rdf Roraima 9/6 to 0325° s/off ID, freq, no NA
                          (D'Angelo-PA)
CHIMA Vo Jinling 9/17 1203 faint w/M in CH (Newbury-NE)
ECUADOR RN Espejo 9/15 0225 full ID, anmts, drama pgm,
fair (D'Angelo-PA)
BLIGLADESH RB 1237 faint w/subcont mx (Brown-MO)
IRIAN JAYA R Suara Kasih Agung 9/18 1115 mx, anmts, 1159
5CT, faded away during Jakarta nx (Clark-ON)
PERU R Huanta 9/15 1002 anmts, vcls, too weak (Orr-VA)
VTETNAM IS 10/3 2237 lang that didn't sound like VT, ID'd
after 2300 when //10059 (Valko/Johnson-PA)
BRAZIL R IPB-AM 9/23 0445 emotional rel tlk, chorus, heavy
static, poor (Flynn-OR) Hi Bill--sp.
PERU R La Hora 9/13 1035 ID, huaynos, ads for "Quiruriga de
Agropecuaria Cusco" & "Distribuciones Rubandi" (Durden-GA)
10/7 2306 sports pgm, singing Coke ads, IDs, TCs (Orr-VA)
                            (D'Angelo-PA)
 4875
 4879.7
 4880
 4881.2
4888.6t
 4894.6
 4895t
 49C0
                           10/7 2306 sports pgm, singing Coke ads, IDs, TCs (Orr-VA)
BRAZIL R RelogiorFederal 10/6 0717 TPs, IDs, tlk (Orr-VA)
49C4.1
4909.8t
                          ZAMEIA ZNBC 9/27 0330 lang Afr vcls, tlks, ute QRM (Lawrence-NY)
                          GHANA GBC-1 9/24 0000 EG nx, into lang, mx (Bickus-VA) 9/20 0045 EG nx, heavy static (Boulden-CA) 9/25 0041 Afr
4915
                          mx, EG nx, closing anmts, NA to 0100° (Davenport-TN)
AUSTRALIA ABC Brisbane 9/17 1215 EG tlks, weak (Newbury-NE)
ECUADOR R Quito 9/10 0046 folk mx, tlk, TC (Davenport-TN)
EOLIVIA R San Miguel 9/25 to 0301° SP tlk, Andean mx,
4920
4920
4924.7
                         ECLIVIA R San Miguel 9/25 to 0301° SP tlk, Andean mx, TD, NA, weak (Alexander-PA)

KENYA KBC 10/3 2107 tlk in lang, EG ID, anthem 2109 and off.

Weak compared to other Africans, xmtr problem? (Valko/Johnson)

AJIATIC RUSSIA Yakut R 10/6 0020 RS piano mx, freq dead air,

TP to 0200 TD, nx (Rausch-HJ)

ECUADOR R Bahai 9/15 *0855 flute/guitar instl, NA, instl,
Inspirational tlk, ID, 0909 Quechua, tnx Johnson (Crr-VA)

9/11 *0858 NA, anmts, rel tlk, guitar/flutes, many IDs

sprinkled into format (D'Angelo-PA) 9/13 *0905 NA, rel

soft instls, xylo (Orr-VA) 9/18 0920 IDs, PSAs, hymns,

class piano mx (Rausch-HJ) 9/14 1010 ID, Quechua sermon,

solemn mx, HC mx, ads (Durden-GA)
4935
4940
4950
                          solemn mx, HC mx, ads (Durden-GA)
PERU R Madre de Dios 10/8 0010 Catholic mass, poss drama,
4953
                         VIETNAM Hanoi-HS 1430 nx or cmtry //10059, 1500 Hanoi ID 10059 barely audible but 4959.6 at good strength (Treibel-WA)
4959.6
```

problems, clear IDs (Orr-VA)

CCLONBIA R Santa Fe 9/12 0022 ID, rapid tlk, poss nx,

freq ments Colombia, weak (Davenport-TN) 9/9 0458 LA

mx, IDs, jingle, ads, complete ID w/call ltrs (Flynn-OR)

CHINA Fujian PBS 9/17 1220 CH tlk, fair (Newburr-NE)

SARAH RTM Kota Kinabal 1239 Malay sounding OM on 10/10 4965 4975 *4970t regional mx, faded out 1249, same time as Sarawak faded out (Brown-MO) VENEZUELA R Rumbos 0012 small tlk, promos, ballads, weak (Davenport-TN) 9/10 0220 SP pop mx, fair (Newbury-NE) VENEZUELA Ecos del Torbes 9/10 0001 mx pgm, ads (Davenport-TN) 9/10 0210 EZL, ID, good (Newbury-NE) USA WWV 0600 TCs, freq, addr (Bilec-PA) STNGAPORE SBC 1212 pops, //5052 (Brown-NO) I have yet to 4970 4980 5000 5010 I have yet to hear this one-sp.

COLOMBIA Ecos del Atrato 9/5 0200-0400* irregular. SP
anmts, IDs, TCs, Caracol promos, pops, NA (Alexander-PA)
9/7 1010 anmts by Hipolito Cordoba, pgm lineup, listener
greetings, ads, invit. to mass "Madrugando con Caracol"
(Durden-GA) 5020 (Durden-Ga)

AUSTRALIA VL8K 8/21 to 0829° EG //4835 best ever lvls,

POP mx, nx cmtry, ABC IDs, mx, sports (Orr-VA)

CUBA R Rebelde 9/24 0030 salsas, ID, sports (Bickus-VA)

9/7 0240 M/W DJs, soft rock, fair (Newbury-NE)

CENT AFR REP RTV Centafricaine 9/17 2159 TP, hilife mx,

ID, brief tlks, (Clar-NY) 2259 FR, NA (Brown-WI)

USA KVOH 0600 EG tlk abt SP lang, Psalm 84, phone no. 5025 5025 5034 5035 (Bilec-PA) 5039.2 PERU R Libertad 9/15 *0935 NA, anmts, ID in echo (Orr-VA) ANGOLA EP de Benguela 9/25 0510 Pf tlk, Afr folk mx, weak, slightly off 5041//6154 (Alexander-PA) 10/6 0510 RN pgm //11954.8, ballads, IDs (Orr-VA) UNID Latin in UTC-5 time zone 10/5-7 0955 canned anmt, are 5043 5044.9 UNID Latin in UTC-5 time zone 10/5-7 0955 canned anmt, are on FM, AM & SW, non-descript LA tunes, nx covers lots of foreign items like Russia, TCs. Either no ID or too fast. This is a react or new station (Valko/Johnson-PA)

BOLIVIA R Altiplano 10/5 1010 nx alternating SP/Aymara,
CP mx, full ID 1030, "Actualidades," wx, QRN (Durden-GA)
COLOMBIA LV de Yopal 9/5 to 0458* irregular SP anmts, pops,
US pops, IDs, Caracol promos, TCs, no NA (Alexander-PA)

ECUADOR R Jesus del Gran Poder 9/2 1000 IDs, chorus, pgm 5045 5050.1 5050 abt Mary & rosary, exc (Robinson-TN)
SWAZILAND TWR 8/20 to 0428* GN rel, choral mx, tlk, TWR 5055 chimes, strong (Orr-VA)
ECUADOR RN Progreso 9/5 to 0403° anmts, ID, LA pop mx,
NA (Alexander-PA) 5060.6 CHINA CPBS Taiwan-2 10/5 2208 CH pop vcls, 2220 ID, flute mx, on past listed 2230 s/off (Orr-VA)

USA WWCR 9/19 0440 & on 5871.6, weak spurs from the new mmtr #3 on 5810, hrd on 2 diff rcvrs (Alexander-PA) 5090 5856.2

BOLIVIA R Juan 23 9/13 0940 tlk, flutes, turntable

4965

CORRECTION: Last month's log on 3315 should have been Radio Manus. Sorry for any inconvenience. ADIE DURDEN is back after the summer static chased him away. DAVE VALKO and HANS JOHNSON were on a DXpedition near Durko, PA. 13 states & 1 province represented this time. Next deadline November 19. Happy Thanksgiving and a belated one to our Canadian neighbors.

International Band Loggings

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



CZECH REPUBLIC R Prague in EG 0111, IDs, jazz pgm, f (Clar NY 9/27) 5915rf? FRANCE RFI in FR 2025, classical mx, tlks, //17620, 11995 (Alexander PA 9/12) 5915ruf SLOVAKIA RSI in EG 0101, fqys, tlk on democracy, ID (Tucker GA, Boulden CA 9/20) 5930 BOLIVIA R Pio Doce in SP 1000, ID, nx, tlk on elections, g (Durden GA 9/23) 59458v GUATEMALA R Cultural in SP 0953, ranchera mx, 6 TC's, f (Johnson MD 9/29) ID? 59544 BOLIVIA R Nacional in SP 0012, tlk, call-ins, mx, IDs, pips, f (Clar NY 9/20) 5968v PERU R Melodia in SP 1035, nx, cholera vaccinations, IDs, ads, f (Durden GA 9/9)
MEXICO R Mil in SP 0745, ID, Latin & US pop mx, TC (D'Angelo PA, Alexander PA) 5995 6010 BRAZIL R Clube Paranaense in PT 0920, jingles, IDs, phone-ins, f (Lamb NY 9/23) 6040 UNITED KINGDOM R Japan relay in EG 2302, nx, ID, JP vocals, f (D'Angelo PA 9/29) 6050 INDONESIA RRI Jayapura in IN 1143, chorals, nx, Lagu pops, ID (Clark ONT 9/19) 60698 UNITED KINGDOM R Japan relay in EG/JP 0654, JP mx, IDs, nx re Russia (Lamb 9/26) 6085 ANTIGUA BBC relay in SP 0045, women composers & musicians (Bickus VA 9/24) ID? 6110 KAZAKHSTAN Kazakh R in RS 0913, RS mx, vocals, ID, kids pgm (Robertson CA 9/20) 6125 BOLIVIA R Santa Cruz in SP 2317, ID, anomt, f (Valko/Johnson DXpedition PA 10/3) 6135 ANGOLA ER de Benguela in PT 2120, Latin mx, //50429 (V/J DXpedition 10/3) 61538 CANADA CKZN St Johns in EG 2300, CBC nx, ID, "Open House", f (Anderson MI 9/20) 6160 ANTIGUA Deut Welle relay in EG 0935, "Science & Technology", g (Newbury NE 8/23) 6160 61702v COLOMBIA LV de la Selva in SP 0327, Caracol IDs, soccer game live (D'Angelo 9/6) 6185 MEXICO R Educacion in SP/EG 0120-0530, LA mox, ID/fgys/sked in EG/SP, XEPPM call, (Clar NY 9/4, Boulden CA 9/27, Anderson MI 9/5) 6190 LESOTHO BBC relay in EG 0415, feature on refugees, interviews, p (Flynn OR 9/23) PERU R Oriente in SP 0125, LA pop mx, fanfare lDs, off 0400 w/NA (Alexander 9/5)
PERU R Cuzco in SP 0121, Andean mx, TCs, IDs, f (Flynn OR 9/11) 1 kw per FWBR! 6190 62038 DOMINICAN REPUBLIC R Quisqueya in SP 2320-0007*, irr xmsns-not hrd daily, SP 62055 pops, IDs, EG anomis each 20 mins, fqy, QTH, abrupt s/off (Alexander PA 9/10-11) BULCARIA RB in lang? 2140-2245*, lcl mx, IS, ID, nx, g //6220 (Alexander 9/26)
BULCARIA RB in lang? 0610, lcl folk mx, IS, p, //11720 (Alexander 9/19)
VIETNAM Hoang Lien Son BS(p) in VT 1200, tlk, mx fanfare, heavy QRM from Radio 6210nf 6220 64004 Pyongyang on 63997 until 1200 (Johnson MD 9/27) tip from UADX via Dave Clark IRAO Rep of Iraq R in lang? *0129, *chicken cluck* IS, NA, Koran (Alexander 9/6) 65601 PERU R Ondas del Rio Mayo in SP 1045, "El Madrugador", ID, ads (Durden GA 9/23) ETHIOPIA V of Ethiopia in lang 0359*, "Jack-in-the-Box" IS, tlk in lang 0400, 68033 71101 lcl mx, //9705 - both fqys very weak (Alexander PA 9/26)
GUINEA RTV Guineenne in FR 2315, hilife mx, ID, Ham QRM (Lawrence NY 9/18)
EQUATORIAL GUINEA R Africa in EG 0515, relig pgm, songs, IDs, p (Pappas SD 10/3) 7125 7190 GERMANY Sudwestfunk in GM 0230, pop/rock mx w/DJ, ID, f (Anderson MI 9/19) 7265 INTHUANIA R Vilnius in EG 2300, ex 12040, M-F only, strong but co-channel QRM 7335nf from CHU Canada time stn (Alexander PA 9/17) BEIGIUM R Vlaandaren Int in EG 0030, ID, nx, Brussells wx (Tucker GA 10/8) 7370 BOTSWANA VOA relay in EG 1924, "Newsline", ID, "World of Music" (Clar NY 9/3)
GREECE FTH Athens in EG 0136, mx, cmnts on "Alexander the Great", f (Levison PA) 7415 9380 UKRAINE RUI in GM 0208, pop mx, IDs, //17605, 9860 & others, f (Lamb NY 10/5) 9505af? FOLAND Polish R in EG 1952, mailbag, M country on his holiday, f (Levison PA 9/6) 9525 ALGERIA RTV Algerienne in EG 1900, IDs, nx, press review, 1cl folk/pop mx, f but mixing w/VOA s/on 1930, //11715, 17745 (Alexander PA 9/26) 9535v SOLOMON IS SIBC in EG/Pidgin 0730, ads, nx, ID (Jarvis CA, Boulden CA)
INDONESIA RRI Palankaraya in IN 1115-1223*, tlk w/several ments of Palankaraya, 9545 9545nf Jakarta nx, NA at s/off, co-channel QRM from Russ stn til 1200 (Clark ONT 9/26) JORDAN R Jordan in EG 1600, nx, ID, ezl mx, g (Anderson MI 9/3) 9560 RWANDA Deut Welle relay in EG 0402, nx, "Africa Rpt", site ID, f-g (Lamb 9/28) 9565 GABON Africa #1 in FR 0520, AF pops, reggae, IDs, nx, promos, f (Lamb 10/11) 9580 RWANDA R Rwanda in EG/FR/lang *0255, IS, NA, IDs in several langs, AP/reggae mx, nx in PR, native chorals, annod // fqy 3330, heavy QRM from R Moscow (Durden GA, 9610nf Lamb NY, Johnson MD, Berg MA, Alexander PA, Clark CNT) rptd from 9/23-10/6) INDONESIA RRI Samarinda in IN 1200, Jakarta nx, //9545, 9680 (Clark ONT 9/18) NETHERLAND ANTILLES RN relay in EG 0738, tlk on Poland, ID (Robertson CA 9/21) 96144 9630 INDONESIA VOI in IN 1201, ID, IS, nx, f/w QRM from 2 co-channels (Clark 9/26) 9675

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NEW ZEALAND RNZ in EG 0743, interview, kids mx, TP, ID, nx (Robertson CA 9/22)
 9700
              PRAZIL R Clube Paranaense in PT 2335, futebol match, ads.//6040 (Alexander 9/18)
 9725
 9746
              BAHRAIN R Bahrain(t) in AR 2000, AR mx, TP, tlk, more AR mx, p (Alexander 9/26)
 9760
              PHILIPPINES VOA relay in EG 1506, "Newsline", ID, f w/OSB/ORM (Robertson 9/18)
              YEMEN Rep of Yemen R in EG 2105-2133, nx, AR mx bridges, country, features, IDs, Into AR 2135, Koran, NA (Clar NY 9/17, Johnson MD 9/30, Ducharme MA 9/28-10/2)
 97800
              UNITED ARAB EMIRATES Abu Dhabi in EG 2322, feature, contry, ID, mx (Tucker 10/5)
11710
              SINGAPORE BBC relay in EG 1456, mx, ID, nx, soccer (Anderson MI, Lamb NY 9/26)
11750
11820
              THAILAND VOA relay in EG/CH 1145, lang lesson, f/OSB & ORM (Clar NY 9/15)
11840
              SRI LANKA R Japan relay in EG 0132, IDs, "Media Roundup", DX nx, f-p (Clar 9/27)
              SINGAPORE R Japan relay in EG 0114, nx, ID, fqy, "Tokyo Pop-In", p (Clar 9/11)
11860
11880
              RUSSIA R Galaxy in RS/EG 2100, ID, pop/rock mx, promos (Clar 9/17, Anderson 9/3)
12000
              RUSSIA R Pamyat Siberia in RS 1448-1500*, feature, organ theme, "R. Stansiya
              Pamyat" ID, IS w/horns, f (Flynn OR 9/18)
              KAZAKHSTAN R Nederland relay in EG 0130, nx, "Media Network", ID (Anderson 9/9)
12025
              DOTSWANA VOA relay in FR 1928, jazz, nx, ID, country mx, pops, f (Lamb NY 9/26)
UNITED ARIAB EMIRATES Abu Dhabi in EG 2358°, ex-11885, new freq for EG sked
12080
13605
              2200-2400, hrd also on // 9770, 11710 (Alexander PA 9/5)
              BANGLADESH R Bangladesh in EG 1228, IS, ID, nx, audio fade by 1233 (Clark 9/19)
13615
              CROATIA Croatian R in lang 2140, ex-13830, lcl mx, //5920, 9830 (Alexander 9/19)
ASCENSION IS BBC relay in EG *2128-2144*, IS, ID, target Falklands (Lamb 9/24)
IRAQ R Iraq Int in AR? 2040-2245, AR mx, IDs, Iraqi theme mx, f/o 2245, no EG
13640nf
13660
136799
              hrd, irreg - not hrd daily, some QRM from Moscow s/on 2100 (Alexander PA 9-7/8)
              VIETNAM VOV in VT 0059*, non-stop VT vocals, W anner w/closing, ID (Lamb 9/23)
15009
              COSTA RICA RFPI in EG 1930, "New Dimensions Radio", ID, exc (Anderson MI 9/3) VATICAN STATE VR in EG 2100, nx, relig mx, ID, African service (Anderson 9/3) MALTA Deut Welle relay in EG 0130, GM lesson, ID & site ID, g (Anderson 9/19)
15030
15090
15105
              MALI China R Int relay in EG 1645, CH opera documentary, ID, g (Anderson 9/4)
15130
              NEW ZEALAND RNZI in EG 0433, local ads, sports coverage (Jarvis CA 8/29)
15155nf?
15160
              PHILIPPINES VOA relay in EG 1256, feature on NY subway system, ID (Tucker 10/7)
EGYPT R Cairo in Yoruba 2120-2158*, AR mx, NA, poor audio (Alexander PA 9/8)
152104
              ANTIGUA BBC relay in EG 1300, "Newshour", problems in Russia (Newbury NE 9/22)
15220
15240
              AZERBAIJAN R Dada Gorqud of the V of Azerbaijan in EG *1700-1757*, IS, ID, nx re
              Azerbaijan, class & folk mx, EG nx 1900, weak but mostly clear (Alexander 9/18)
              KAZAKHSTAN Kazakh R in RS 1645, ethnic mx, IS, ID in EG, poor mod (Newbury 9/10)
15270
15315
              NETHERLAND ANTILLES RN relay in PT 2240, songs, mailbag, ID (Bickus VA 9/26)
              RWANDA R Rwanda in FR *1800-2100*, s/on w/short instrum tone, FR nx, ID, 1cl Afr
15340nf
              folk mx, FR/US pops, NA (Lamb NY 9/24, Alexander PA 9/25, Durden GA 10/13)
              ARGENTINA R Nacional in SP 2300, SP yak, L Am ballads, IDs, //96899, at 0058
153448
              they switched from 96899 to 11710 but remained on 153448 (Alexander PA 9/18-19)
              FRANCE RFI Paris in FR/EG 1225, to EG 1230, ID, nx, "Made in France" (Lamb 9/17)
15365
15395
              UNITED ARAB EMIRATES Abu Dhabi in AR 1402, AR chants, tlk,//13675 (Tucker 10/10)
15410
              PHILIPPINES WOA relay in CH 1255, EG lesson, IS, ID, f (Lamb NY 9/17)
              MOROCOO VOA relay in EG 1645, tunes from "My Pair Lady", ID, IS (Newbury NE 9/1)
GABON Africa (1 in EG/FR 1858*, nx in EG, FR anomts 1855, ID (D'Angelo PA 9/21)
PHILIPPINES FEBC in Burmese(Shan) 2359*, IS, EG ID at s/off,f (Treibel WA 10/16)
PAKISTAN R Pakistan in EG 1730, tourist info, ID, subcont mx, f-p (Clar NY 9/6)
15410
15475
15515
15550
17635
              SWITZERLAND SRI in EG 1720, items re SWL, QTH for questions (Levison PA 9/11)
17815
              BRAZIL R Cultura in PT 2306, bossa novas in PT/EG, ID, f (Lamb NY 9/17)
PHILIPPINES VOA relay in EG 2329, nx, "VOA Sat. Morning" (Lamb NY 9/17)
CUBA RHC in SP 2115, nx re NAFTA, IDs, "Postale de America" (Lamb NY 9/24)
17820
17835nf
21560
              ITALY RTV Italiana in IT 1400, bird chirping IS, ID, nx, g (Bilec PA 9/2)
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CLANDESTINE STATIONS

59051 Radio Patria Libre in SP 0050-0059*, moved from 5835, usual SP yak by M/W, brief mx breaks, IDs, vp w/FAX & rtty QRM (Alexander PA 9/11) PWBR '94 lists this one in Colombia.

By the time you read this, the Winter DX season should be getting into high gear. Get your best DX catches into this column and add to the enjoyment of the rest of the NASWA membership. Thanks for all of the above items this month. If you send your stuff directly to me, please remember to get them to me no later than the 16th of the month. 7"'s

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