3rd Annual Winter SWL Festival
February 23-25, 1990
Holiday Inn
Sumneytown Pike
Kulpsville, Pennsylvania

The Winter SWL Festival is a good excuse for those folks with a common interest in the Shortwave Listening hobby to gather for a weekend of socializing and meeting other SWL's. Forums and roundtable discussions will be held on Saturday for those wishing to learn more about SWL'ing or to exchange tips and techniques. Don't miss the shortwave display from clubs and a banquet round-out the weekend events.

Registration Options:

FULL - All functions including forums, hospitality room, lunch and banquet - $30
PARTIAL - Includes forums and hospitality room but NO meals - $15
SPOUSE - Includes hospitality room and meals - $15

Please register NO LATER than February 10, 1990. Checks should be made payable to WINTER SWL FEST. Registration for hotel rooms should be made directly to the Holiday Inn at (215)368-3800 - As soon as possible! Special rates - $55 single, $59 double. Our function code with the hotel is WINTER SWL FEST. Please refer to this to get the special room rates. Listen to the ANARC SWL NET on 7.240 at 1500 UTC Sundays for up to the minute info.

The Holiday Inn is located at EXIT 31 of the PA Turnpike NorthEast Extension - Lansdale Interchange. Limo service is available from Phila. Intl. Airport directly to the Holiday Inn.

Please submit the following form with your registration amount to:

Winter SWL Festival
PO BOX 591
Colmar, PA 18951

Name ____________________________________________
Address ____________________________________________
City __________________________ State ______ Zip ______ Phone ______

Circle one: FULL PARTIAL SPOUSE (Spouse Name ________________________)

Banquet choice: Roast Beef Chicken

Spotlight on...

edited by: John Trautschold
354 N. Winston Drive
Palatine, IL 60067-4132 U.S.A.
(with the help of the Altair 8800 & Atari 1040ST computers.....)

DECEMBER 1989

TOTAL CONTRIBUTORS: 57

1 ALLRED, BRENT
2 BARRERA, GABRIEL
3 BERRY, JASON
4 BEVENS, EDWARD
5 BISHOP, FOREST
6 BLIGHT, WILLIAM
7 BRONOWICZ, MICHAEL
8 BROWN II, EDWARD
9 CARAN, JOHN
10 CARSON, JOHN
11 CICHOREK, EDWARD
12 CONWAY, PETER
13 D'ANGELO, RICH
14 DILLON, PETER
15 DROLLINGER, RICK
16 ECKERT, JOHN
17 EVANS, STEWART
18 FAMULARO, RALPH
19 FISCHER, GREG
20 FLYNN, BILL
21 FORSGREN, RAY
22 FRASER, BOB
23 GEARS, GARY
24 GEORGE, STEVE
25 GERSNER, JOHN
26 GORDON, ANDREW
27 HANSON, JEFFREY
28 HESS, ROGER
29 HOWELL, JOE
30 HUNT, W.S.
31 JONES, DAVID
32 KARCHESKI, WALTER
33 KUNKEL, ROLAN
34 LANDAU, ROBERT
35 LANGLOIS, HAROLD
36 MATSUSHITA, YUKIMA
37 MILLER, WILLIAM
38 McNEIL, STEVE
39 PARK, DALE
40 PRATH, JOHN
41 ROBINSON, BETSY
42 ROGERS, JOHNN
43 SABLE, THOMAS
44 SCHULSINGER, MICHAEL
45 SHERIDAN, PEGGY
46 THORNTON, DON
47 TRESCHER, FRED
48 THOMPSON, WILLIAM
49 THOMPSON, STEVEN
50 WOERING, HAROLD
51 WRIGHT, PHILIP
52 CA
53 FL R5000
54 TN RF6000
55 MA R5000 04
56 CA DX400
57 NJ DX400
58 FL
59 PA IC-R70
60 JP RF2200
61 CA DX400
62 MA
63 HI
64 CA FRG7
65 NJ NRD525
66 PA R5000
67 MA R5000
68 CA R2000
69 WI FRG7000
70 CA R2000
71 WI FRG7000
72 CA R2000
73 MA XCR30
74 IL R5000
75 MA R5000
76 FL DX1000
77 CT NRD525
78 MA R1000
79 NF DX400
80 THE FOLLOWING COLUMNS DIRECT CONTRIBUTIONS WERE NOT RECEIVED IN TIME:
WEST. HEMIS/AFRICA/USA/UTILITIES
81 THE FOLLOWING COLUMNS ARE INCLUDED FROM LAST MONTH'S BULLETIN:
WEST. HEMIS/AFRICA/USA/DX-9

ANOTHER NEW FULL MEMBER!

This month the honor goes to:

LARRY SAARIKKO.....NY

AND A BUNCH OF FIRST TIME CONTRIBUTORS!

ROBERT HESS...OVERSEAS
STEVE MCNEIL...........MA
W.S. HUNT...............FL
DALE PARK.............HI
ROBERT LANDAU...........NJ

IF YOU GOT IT...SEND IT!

Huh? Well, material for this column, that is! I'm always looking for strange and unusual items for Spotlights so if you see something in your local newspaper, a magazine, a computer BBS, whatever, clip it out and send it in! You get credits towards full membership when you send in items. Naturally, they should be related to the radio hobby, but if it's really different....

ANARC BBS

We've talked about the ANARC BBS before,
but haven't mentioned anything about it recently, so now's as good a time as any to bring you up-to-date on this excellent radio related computer bulletin board service (BBS). Anyone with a computer and a modem (and of course the appropriate software) can dial into the BBS. There is a lot of activity between hobbyists, especially in the "echo" message conference. The neat thing about "echo" is that you can call a local BBS (assuming they participate in the FIDO echo network) and have your message transferred to the ANARC BBS, and vice versa. It saves you the toll call.

But even if you don't have access to an echo board locally, you can still dial in directly and take advantage of everything that the ANARC BBS has to offer. It's not just limited to shortwave enthusiasts, but broadcast band, scanners, television, etc. are represented on the BBS. You can participate in whatever sections you desire. It costs nothing to dial in, except for the phone call. If you're heavy into DXing or the hobby in general, this is a must stop for DX news and information.

The number your computer should dial for direct access is 913-345-1978. Typical communications parameters are 1200 baud, 1 stop bit, no parity, 8 data bits (8-N-1). (Those of you into computers know what I'm talking about...hi!) It's easy to get in, so join in the fun now. And by the way, should you decide to call in, make sure to drop by the special SPEEDX message area and say hi to your sysop...ahem...that would be me!

LATIN AMERICA BY RADIO

Bob Thunberg, our illustrious business manager, sent along some information about this new book that just hit the market. It was written by Henrik Klemetz and is being published by Tietoteos Publishing Company in Finland. This book sounds very interesting: "The aim of this book is to unveil some lesser known aspects of Latin American broadcasting, also from a cultural and linguistic point of view. While primarily intended for shortwave hobbyists, this book may also be of interest to: students of the Spanish language; travellers in South and Central America; readers interested in the role of broadcasting as a communications medium in Latin America and in third world countries in general.

"Henrik Klemetz is a well-known Swedish DXer who has travelled widely all over Latin America. As an expert on Latin America he is amongst the best in Sweden."

The book deals with the following topics:

That special thing about Latin American Broadcasting
How stations identify
Some useful hints for identification
Latin American music
Newscasts
Commercial and advertising formats
An appendix with transcripts
Vocabulary of broadcasting terms in Spanish and English
QSLing techniques
Currency exchange rates
National Anthems
Gentilicios

I have not had a chance to personally review this book, but again it sounds quite interesting. It's not inexpensive, at $23 U.S. Latin American by Radio can be ordered from:

Tietoteos Publishing Company
P.O. Box 40, Ylaportti 1 A
SF-02211 ESPOO
FINLAND

Their international telephone number is 358-0-881133. They apparently accept U.S. dollars, and I would recommend you sending a bank draft (cashier's check) or money order as opposed to a personal check. Please let us know if you decide to purchase a copy. And make sure to send in a review of the book.

WANTED: Am looking for the following issues of SPEEDX: ANY pre-1972 (Vol. 1); 1972 issues 7 & 12; 1973 issues 4-9; 1974 issues 2 & 5-12; 1975 all; 1979 issues 1, 2, 6, 8, 9, 11 & 12; 1980 issues 1-6, 8, 9, 11 & 12; 1981 issues 1-6, 8, 10 & 11; 1982 issues 1, 2 & 5; 1983 issue 2. Am willing to pay reasonable amounts. Al Quagliari, P.O. Box 888, Albany, NY 12201-0888


FOR SALE: NRD-525 with matching NVA-88 speaker, CMH-532 computer interface and cables. Datacom software to control 525 via computer, all cables, manuals and boxes. Absolutely mint condition. $1000 + shipping.

M7000 with FAX and Real Time options, monitor, cables, manuals and box. All in mint condition. $950 + shipping.

NRD-515 with x10 knobpot, matching NVA-515 speaker and NDH-518 96 channel memory unit, boxes and manuals. Excellent condition. $900 + shipping. Gerald Ano, 4512 Hickory Grove Drive, Acworth, GA 30101. 404-426-7764

FREEBIES: Early issues of SPEEDX, FRENDEX, MT, POPCOMM, DXLD & misc. F.O.B. San Jose, otherwise all for free from Bill Flynn, WDX6AP, 1933 Minto Drive, San Jose, CA 95132-1824.
Hi. My typewriter's working again, and, thanks to the marvelous science of chiropractic, so's my back. But since there has been no known medical cure for writer's block, let's start off with some pearls from our new Managing Editor and our veteran Treasurer, and hope that I can get my act together in the interim.

*Hello! Old column editors don't always fade away--they sometimes return as Managing Editors. I'm pleased to be writing you as the new Managing Editor of SPEEDX.

For those of you who are relative newcomers to the club, let me tell you something about myself. I am 39 years of age (and holding) and have been a SWLer for 21 years. I joined SPEEDX in 1972 and started the column "Program Panorama" in April 1978. For ten years, I presented that column in the pages of SPEEDX. I am an attorney by occupation, and enjoy long walks and observing the "Big Three" sports.

While I have never served as a Managing Editor for a SWL club, I have served under some fine ME's, including the late Oliver Ellsworth. With your help, we will continue to make the SPEEDX bulletin the best there is!

One new development of note is the creation of the SPEEDX Editorial Committee. This five-member committee consists of the Managing Editor, the Publisher, a BOD representative (Rich D'Angelo), and two column editors (Paul Lannuier and Daniel Sampson). The purpose of the EC is to create a forum for a regular, frank, and creative discussion on the editorial content of our bulletin. EC members are appointed by the SPEEDX BOD.

I encourage any members who are interested in editing a column to contact me. Let me know what areas your interests lie in.

73, Woody

Woody Seymour, Jr.
P. O. Box 848
Sanford, NC 27330

Thanks, Woody. Until now, we've been without a Managing Editor for about a year, which meant that a lot of hasty, ad hoc, and probably ill-considered decisions were made right here at yer Publisher's office. I owe a debt of gratitude to many SPEEDXers, in particular Rich ("Only One Area Code Away") D'Angelo for hours of sensible and enthusiastic advice.

Speaking of sensible, let's hear from Bob Thunberg....

As 1989 draws to a close, we, the staff of SPEEDX, wish to thank the following members who have so generously made donations to the FRIENDS OF SPEEDX fund during the past year:

Harold Woering
Cary Garrison
James Kline
Bruce MacGibbon
Gary Froemming
Allan Radella

John P. Gunter
Frank Engelberts
Ralph Famularo
Frank Schlinke
Gary Gears
Donald Berhent

Richard Lenke
Jeffrey Hanson
Christopher Mullin, Sr.
Ron Downing
Mike Hardester
one anonymous donor

The FRIENDS OF SPEEDX is an ongoing program and we are still accepting monetary donations in any amount that you, the member, can afford. All those who contribute at least $10.00 will receive a certificate of appreciation, AND NOW, those who donate $25.00 or more will receive, in return, a SPEEDX felt pennant.

We, the hard-working SPEEDX staffers, realize that it is difficult to keep a non-profit SWL hobby-related club financially viable when there are many commercial publications available to the radio-listening public. Your contributions to the FRIENDS OF SPEEDX will go a long way in keeping our club financially strong throughout the 1990's and into the 21st Century!
Once again, thanks to all who have already made donations to the FRIEND OF SPEEDX, and we hope to hear from more of our members during the coming year. All donations should be sent to: SPEEDX HQS, P.O. Box 196, DuBois, PA 15801-0196 USA.

Happy Holidays and all the best in 1990 from the SPEEDX staff & Board of Directors!
And thank you, Bob!

ABOUT OUR COVER...
I guess it's pretty self-explanatory. Please note that I got the dates wrong last month, and adjust your calendars accordingly. I suppose I should apologize, but I don't know how I got anything done last month; the magazines were actually a couple of days late going out because I couldn't even carry them out to the truck until my chiropractic session.

As usual, the Winter SWL Fest will have a series of forums on topics of both general and specialized interest to all variety of DXers. I've had a lot of fun at the last two, and hope to see many more of you there this year.

CANADIAN CONTENT
Ace reporter Bill Westenhaver was given the assignment of finding out what happened to Dorota Kocienska, the recently replaced co-host of RCI's "Listeners' Corner." It turns out that Dorota was on a "temporary production assistant" contract, which was not renewed; apparently, RCI is not interested in programming on a full-time basis these days.

As regular listeners have noted by now, her place on the programme has been taken by Judith Sauve, who, besides being very personable, was already on the payroll (and overworked at that) as Director of Audience Relations.

I hope that all of you who have enjoyed RCI's superb programming through the years have written your letters of support by now. Even professional pride (which the RCI staff has in abundance) cannot compensate forever for the uncertainty surrounding the station's future, because eventually it gets impossible to cope with that kind of situation.

SPEEDXers IN THE NEWS
I hope that by next month I can tell you exactly where to hear Gary Gears, a SPEEDXer and veteran radio man who has been signed to do an older-request programme on KUSW. Here's your first request, Gary: "The Glory of Love" by the Velvetones--that's the version with the mordantly cynical rap ("I hold in my hand, dear, three letters, three letters from the stages of your fine, fine, superfine career..."): A ravin'fave here.

Last month, I praised the article in PROCEEDINGS 1989 about Brasil, but misattributed it: It was actually by John Fisher. (Don Moore wrote another article, about QSLing Latinas, which was also very good).

I can't tell you who Japan Radio Corporation's new Assistant Director of Transceiver Marketing is, but why has our "Utility Scene" editor, "Park Avenue Paul," been buying all these threads? Downtown!

LEAFING THROUGH THE DX PRESS
Here is a provocative essay, reprinted (glommed, actually) from Fine Tuning # 532, written for FT by Kirk Allen.

I recently received a very nice letter from a veri-singer at one of the more difficult stations to verify. He was responding to a thank-you letter I'd written him for answering my reception report. In his note, he informed me that, after answering many letters during the last several months, I was so far the only one who had written to thank him...I sensed a bit of frustration from him, and I don't blame him. This was very disappointing for me to hear. Granted, with the rising cost of postage, and perhaps time constraints, it's often difficult to send thank-you notes to stations who do us the favor of answering our reports. (But it seems that the vast majority of QSLers don't bother to practice sending the thank-you's at all, even to very rare verifiers.) After speaking to several DXers still trying to verify the Cook Islands, I believe that this might be the case with the former v/s there, Nooroo E. Tangaroa. No doubt he's not the only one who has tired of answering reports with little response in return. Perhaps all of us should broaden our perspectives a little and try to think more of others in their QSLing efforts. Let's not depend on "the other guy" to make up for our failing to realize these are humans we're dealing with, and certainly not QSLing machines. Give it more serious thought, or we might someday find ourselves in a no-QSL situation...and mainly because more of us didn't "bother."

Thank you, Kirk. This is indeed something to think about.
(Fine Tuning is a 2-or-4 page flash sheet published weekly during the
DX season, bi-weekly during the summers, which is primarily concerned with rare and obscure DX. Subscriptions are $5.00 for 12 issues (or multiples thereof), available from P. O. Box 780075, Wichita, KS 67278. Please note that this is a different address from that which I've given for their various book publications in recent months).

THE 1990 WRTH: IT'S NOT HERE, BUT IT'S ALMOST HERE

...and Gilfer Shortwave is running a pre-publication special: $16.95, a saving of $3.00 off the cover price.

Gilfer's generosity extends to the new Radio Directory by the editors of the M Street Journal: This volume—a comprehensive, 600+ page encyclopedia of North American AM and FM stations, including Arbitron and Birch/Scarborough ratings for over 100 markets—is available for $24.95, a $5.00 saving. It's highly recommended for the domestic DXer. (Gilfer, Box 239, Park Ridge, NJ 07656. Add $2.00 per book for UPS shipping; New Jersey residents add 6% sales tax. Directories are in stock, and will be shipped immediately; WRTH's shipped on receipt, probably in early January).

RUN UP YOUR PHONE BILL

...and talk to your friends at HCJB's "Musical Mailbag." Yep, they're having an hour-long phone-a-thon on December 16 (UTC Saturday; 02:00 for North America, 07:30 for Europe and the South Pacific).

On January 20, you can talk to Brent Allred, when "DX Party Line" has its own call-in show (same UTC times).

The number is (your international access code, followed by) 593-2-241560. (This is a special circuit which is only activated for call-ins).

Radio RSA will also be having its annual New Year's Eve call-in. I don't have the phone number for this, but you can probably catch it on any edition of "DX Corner" or "P. O. Box 4559" between now 'n then.

DOWN UNDER

Radio Australia—yet another station facing budget cuts—has discontinued the newsletter which it was sending to its most reliable reporters (Jane de Faye, in the 11/89 CIDX MESSENGER). You can, however, get a copy of their newly revamped programme lineup by writing. (I heard a phone number for them on this morning's "Communicator," but I didn't write it down; I was still trying to figure out why I'd set the timer on my Sony to go off on Sunday morning, and finding a) my glasses (b) a notebook (c) a pen at an hour which I consider rather unearthly even when I'm supposed to be up...well, there's much I will do for SPEEDX, but I have my limits).

Anyway, the new lineup does sound interesting, although I'll miss "Window on Australia," which has been (temporarily, I think) retired. I listen to good ol' 9580 most weekday mornings, for a few minutes, anyway: The Commonwealth has much to answer for musically (AC/DC), but some of the C&W they play is pretty cool (especially Slim Dusty—I love that name!), the news is tops, and the presentation is as mellow as you could ever hope for.

THE WRAP

I hope that some of you will take Woody Seymour's words to heart. Staff positions do open up from time to time; and, if a columnist has to retire, we'd like to be able to move along in a reasonably smooth fashion. We don't care if you're not a "DX Superstar" or if you don't have $6,000 worth of equipment; a functioning typewriter/wordcruncher, and the ability to meet yer sorry old Publisher's deadline, are far more important.

In fact...anybody want to explore the whacky world of publishing? It's not that difficult, and it's actually a lot of fun. No, I'm not quitting. But we don't have a backup publisher (a few people have investigated, but either the local printer is an alcoholic, or charges too much, or something); and I sometimes worry about what happens if my back goes South for good, or if I get mononucleosis. If you have any interest, or any questions, please get in touch with me. Again, I'm not retiring; it's just that, with a solid Managing Editor in place and the Board elections out of the way, it's time to deal with a little contingency planning.

The Contest will be back next month. Till then, 73's and best wishes for a peaceful and joyous Holiday season.

PS I really need some of these guys; can't find 'em except in Philly, and it's tough getting there when the store is open. Send a receipt, and the SPEEDX Slush Fund will reimburse you!
Welcome to all. First, let me thank all of the SPEEDX "full members" who participated in the recent BOD elections. A special thank you to those nine who accidently voted for me-hi! (Does anybody want to buy a new, never used acceptance speech?) Congratulations to Ed, Bill and Rich. I know you will serve SPEEDX and the hobby well.

Congratulations to Greg Fischer of LaCrosse, Wisconsin who won the highly desired issue of Popular Communications for his "indoor helical antenna" article. Greg found the article in a semi-recent issue of "Hands On Electronics". Because of copyright restrictions, I can not present it here. If you are interested, drop me a note and I will find you a copy of the magazine. The antenna incorporates a helical winding of multi-conductor TV antenna rotor wire around a 6 to 8 foot section of PVC plumbing. There is a flaw in the author's reasoning concerning how this antenna achieves "full wavelength" performance, but the antenna is simple to build, inexpensive and will probably provide acceptable performance with most modern solid-state receivers that have good sensitivity.

The subject of antennas is probably as controversial as it is complicated. All engineers and designers study the same set of Maxwell's Equations and the rest of the laws of physics, but they certainly all do not totally agree on the explanations of why certain antennas perform better than others. This month we are going to discuss directional antennae for short wave frequencies and hopefully explain why they don't work so well at frequencies above about 5 MHz. This article is actually a heavily condensed portion of my 50 page monograph entitled "Simplified Theory, Design And Construction Of Air Core And Ferrite Loop Directional Antennas For Medium And Short Wave Receiving Applications" which is almost ready for publication.

Principles Of Directional Antennas for Short Wave Receiving Applications

Wouldn't it be wonderful if we could simply point an antenna toward a desired station or country and hear only the desired signal with little or no interference from other signals on the same frequency from other parts of the world? It would certainly help "country chasers" increase their totals. SW listeners who also DX the medium wave BCB have probably wished on many occasions that they could "null" undesirable SW signals to the same extent they can null out BCB signals and listen to stations from other directions. Unfortunately, what is "easily" accomplished at low frequencies (below 2 MHz) is very difficult (even impossible) at most SW frequencies. "Gee, Kent....how come?"

The two most important limitations are the nature of the EM wave we are trying to intercept and the nature of the propagation path, i.e., the ionosphere. An EM wave may arrive at our antenna via one (or both) of two major routes. It may propagate by a more or less direct ground wave path with a very low angle of elevation. Or it may travel via a combination of ionospheric refractions coupled with earth surface reflections.

Signals arriving via the surface wave will generally be vertically polarized, depending upon the frequency to some degree. The polarization is nothing more than the spatial orientation of the electrical field vector. Low Frequency (3 to 300 kHz), Medium Frequency (300 kHz to 3 MHz) and High Frequency (3 to 30 MHz) surface (ground) waves will generally be vertically polarized. High frequency, i.e., shortwave signals, which have been refracted form the ionosphere will arrive at our antenna elliptically polarized, regardless of their transmitted polarization. A wave's electric field vector will always be perpendicular to the magnetic field vector but random variations in phase and amplitude of multiple waves arriving at a point simultaneously will produce a composite wave. This composite wave, in
general, has a truly random polarization. This is the main reason for the difficulty in nulling out one signal while receiving another from some other direction. Because the polarization varies with time and may change noticeably within a few moments, it is impossible to completely and continually null out any one signal for any appreciable length of time. For example, you may successfully null out an undesired SW signal with a loop antenna in some particular orientation only to have the signal reappear a few moments later, even without touching your antenna. You would have to constantly adjust the bearing and azimuth (tilt) to compensate for the time-varying polarization of the signal. Remember, the shortwave signal that arrives at your listening point hasn't traveled like a "bullet" from the transmitting antenna straight to your receiving antenna. The signal is often a mix of several waves which have taken slightly different paths on their journey, only to arrive out of phase at your antenna and partially cancel each other out from moment to moment, producing signal fading in the receiver. Medium wave (broadcast band) signals, in contrast, do tend to arrive at the antenna by a more or less direct or line-of-sight route. As a result, it is easier to turn a "loop" style antenna perpendicular to the direction of the undesired arriving signal and effectively eliminate it.

Loop antennas of both the air-core or "hollow" variety as well as magnetically loaded loop antennas (wound over ferrite rods) can be constructed which will show some degree of directionality for frequencies up to a maximum of about 5 Mhz. A couple of years ago I successfully "de-emphasized" TGNC (Radio Cultural, Guatemala 3300 kHz) in order to log and QSL Radio Burundi operating simultaneously on 3300 kHz using a small air loop I designed especially for the 90 MBI Above 5 Mhz, the time varying polarization of multiply arriving waves make it extremely difficult to obtain satisfactory directional response. Because of the difficulty in obtaining a true HF null, you don't find many manufacturers offering air loop or ferrite rod antennas for the SW bands. They simply are not very efficient, and they won't be, until someone finds a way to maintain the transmitted polarization over great distances in the HF portion of the electromagnetic spectrum. This would be easy to do; we only have to change the laws of physics!

All antennas have directional characteristics with a maximum response in some particular direction, with the exception of a true "small" vertical single element antenna. Such an antenna has essentially "isotropic" response. The common air core or box loop antennas used by MW DX'ers electrically combine the signal energy from the two opposite ends of the loop. This exploits the amplitude difference between the the signal that arrives at one edge and the signal that arrives at the other. The voltage induced at one vertical side of the loop is different than the other. Vectorial (electrical) addition of these two signals produces a composite signal which is a maximum when the plane of the loop is parallel to the direction of the arriving signal. The voltage is at a minimum ("nulled") when the plane of the loop is perpendicular to the direction of the signal. The signals arriving at either end of a ferrite rod antenna behave analogously.

It is important to remember that the nulled position is not unique. Because of the physical and electrical symmetry of a balanced loop or ferrite rod antenna, there are two positions of maximum and minimum response. The two directions of minimum response are perpendicular to the plane of the loop and 180 degrees apart. The two directions of minimum response of a ferrite rod are parallel to the width (the shortest dimension). Medium wave DX'ers exploit this fact to null out even local BCB stations, usually to log another station on the same frequency. Loop antennas are also very useful for reducing interference from very strong local and semi-local AM broadcasters, because they can significantly reduce adjacent channel (typically +/- 10 kHz) slop or "spillover".

In summary, if multiple skywave signals from a particular SW broadcaster are arriving simultaneously with time-varying polarization it would be impossible to null the station. Much to the dismay of SW Dx'ers it is much easier, for example, for an Alabama AM BCB DX'er to null out WTBF (970 kHz, Hamilton, Alabama) and listen to WRKN (970 kHz, Brandon, Mississippi) than for an Alabama SW DX'er to null out R. Sofia (9700 kHz) and receive R.Nacional, Angola on the same frequency. The main reason is the difference in nature between the sky-wave and "ground wave dominant with minimal skywave" signals.

73's & Great DX,
KENT.
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RELAYS—An-Antigua, Br-Bonaire, Bz-Brazil, Bu-Bulgaria, By-Bethany, Cu-Havana, F-Singapore, Gk-French Guiana, Ma-Malta, Mi-Mali, Sa-Sackville, Sp-Spain, Wy-VYFR
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RELAYS--An-Antigua, B-Bonaire, Br-Brazil, Bu-Bulgaria, By-Bethany, Cu-Havana, F-Singapore, Gu-French Guiana, Ma-Malta, Mi-Mali, S-Sackville, Sp-Spain, Wy-WYFR
AUSTRALIA - Radio Australia - The 50th Anniversary: On Wednesday December 20th Radio Australia staff will join a large group of guests to celebrate our half century. We hope that the Prime Minister, the Minister for Broadcasting, the Australian Broadcasting Corporation's Managing Director and representatives from our colleague broadcasters will be present. Much of what happens will be rebroadcast by the English Service which will of course maintain its 24 hour service even on this special day. However Wednesday December 20th will have quite a different flavour to it. Make sure to be listening. (WRTH Downlink 9/89) but more appropriate in this month's column. (bmm)


Radio Beijing's Regular Features (following the news, commentaries, *Current Affairs): Sun: China Anthology, Music Album, Listeners' Letterbox; Mon: The Business Show (Biweekly), Learn to Speak Chinese; Tue: Listeners' Letterbox (rebroadcast); Wed: Learn to Speak Chinese (rebroadcast) Thu: Culture in China; Fri: In the Third World; Sat: Travel Talk, Cooking Show, Music from China. * = Current Affairs Is a regular program (Mon - Fri) presenting an in-depth look at major news and feature stores across China.

Highlights of Features for December:

Listeners' Letterbox: Wild animals have close ties with human beings. But now they seem to be threatened by industrial pollutions and frequent harasses of men. This is like a show hanging about in the world. But what about China, since it has so many well-known wildlifes? Are there animals in the danger of becoming extinct? Listeners' Letterbox on December 3rd and 5th will answer this question. Then tune into our Listeners' Letterbox program on December 17th & 19th for more about China's vigorously developing industries.

Culture in China: The Mongolian Nationality is a people with rich and colorful culture. Tune in to Radio Beijing's "Culture in China" on December 7th for the last part of the series on the nationality, featuring the well-known Mongolian singer Dedma, and her beautiful songs.

Travel Talk: Liaoning province in northeast China is known to the outside world as a heavy industrial base in China, rather than a scenic spot. However, it's still a place that boasts many historical sites and charming landscapes. In December, Travel Talk will take you to Liaoning for an "armchair tour" of the Province. Remember, Travel Talk will be heard on Dec. 2nd, 9th, 16th and 23rd.

China Anthology: 60 years ago, on the 2nd of December, Chinese archaeologists found in suburban Beijing a skull of a primitive man. It was determined to be 600,000 years old. This important discovery has aroused great interest among archaeologists of generations both at home and abroad. China Anthology will feature the discovery and its influence on the 3rd of December to mark the important event. (Lifang, Audience Relations, Radio Beijing)

Local DJ to broadcast over Radio Beijing - From the 23 Oct 89, Portland, Oregon 'Downtowner', in Sheldon Baker's Column, "Baker Sez": How about the effects of ex-KISN (the original KISN, that is), DJ Roger Morgan. He's put together a radio program to be broadcast over
Radio Beijing this spring anchored by fascinating authoress Chin-ning Chu. American music, commentary—the first show of its kind ever aired in the Middle Kingdom. But it's pure demographics of the thing that are tantalizing: Morgan's estimate places the potential listenership at 50 million. The line to buy ad time forms over there behind all those capitalists.

Did you know that Chinese maps place China smack-dab in the center of the world? OK, you did, well, the Chinese have a name for their country which translates to "All Beneath the Sky," and on that note I'm going to "Human" for dinner... (Ed note: a local restaurant in Portland, OR.)

I (bmm) talked to Roger W. Morgan, who is employed by 'Northwest News Network'. His telephone # is 563-223-6769. I asked him why the article said 'Radio Beijing' when actually to be broadcast over "China People's Broadcasting" and he said because advertisers recognize the name Radio Beijing. He said that J. Walter Thompson and Ogilvy-Mather, two large New York advertising firms, represent major advertisers. They both have offices in Beijing and have done "Listener's Surveys". He told me that this program was going to be of "Entertainment w/music by Kenny Rogers, Neil Diamond, Michael Jackson, etc. and Social Commentary, like 'How to Better your Life' and "Social Etiquette." The program would be anchored by noted author Chin-Ning Chu, who authored "China Mind Game", which is about 'Business Tactics of Asian People'. The sponsors so far are a major fast food chain & soft drink company (but was not at liberty to give me their names just yet.)

The name of the program (on China People's Broadcasting) is "The Different Faces of the World" and is an hour long program of contemporary music from various countries including the U.S. as well as commentary from Chin-ning. Some programs have already been shipped to the 'People's Broadcasting Station' for their approval.

I asked him how he could succeed whereas 'Chin-America' didn't. Thought Chin-America had been out of business now for about 6 months. He didn't know who had hosted that program. Wondered if I had any tapes of their programming. He would like to hear it. I don't, but if any 'SPEEDX Members' do, if they could send me a copy, I would appreciate it very much.

Chin-Ning Chu is the key to the success of this program. (From my association with the "Northwest Regional China Council", I understand she has quite a few friends in China) (bmm). Roger W. Morgan told me she is also soon to debut on the "Business Radio Network in America" Note: I have been unable to contact Chin-Ning Chu to talk to her, but I have a personal friend that knows her, so hopefully I can get her comments on this exciting venture. (bmm)

FINLAND - Radio Finland Published Sked t/3/24/90: 0000-0025 EE, 0025-0040 FF on 11755, 9560 N & Sam; 0625-0640 GG, 0730-0755 EE on 11755, 9560, 6120 Eur; 09-0925 EE 21550, 17800 Australia; 11-1130 GG, 1130-1145 FF 15125, 15115 Eur & W.Afr; 1150-1215, 13-1325, 16-1625 EE (Mon-Fri) & 16-1645 (Sat) & 16-17 (Sun) 21550, 15400 NA; 1930-1945 EE, 1945-20 FF 11755, 9530, 6120 Eur & W.Afr; 2045-22 GG 6120 Eur; 22-2225 EE 6120 Eur, 11755 E.Asia; 2330-24 GG 6120 Eur. A speciality on the international airwaves—a news roundup in classic Latin is broadcast at the end of most of our English transmissions between 0930 Sun & 13 Mon. (John Carson, OK)

GERMAN DEMOCRATIC REPUBLIC - RBI's announced EE Sked to NA: ECNA: 22 9730; 2245 9730, 13690; 0945 & 02 6080, 11890, 13690; 0245 6080, 11890; 04 13690; 0045 15240; WCNA: 0245, 04 & 0445 11785, 15125. (bmm)

Announcers statement on RBI on 11/6: M "Our daily news bulletins, commentaries and reports have told you in recent days and weeks that a process of change has been set in motion in our country. We sometimes speak of a turn in developments and you may have been asking yourselves what exactly this implies? Is everything going to be turned upside down and what about the things that Radio Berlin International told you in the past? Was it true? It is true and it will remain true that the German Democratic Republic is a state firmly rooted in Socialism. It is true and will remain so that this state is fully committed to anti-fascism and a safeguarding of peace and that it acts accordingly. It is true and will remain true that we're committed to solidarity with all those struggling for their national and social liberation and that we demonstrate this commitment by our actions. It is true that much has been accomplished in our republic, but it is regrettable also true that there have been problems and contradictions in our development and the diversity that did not receive due attention in public life in the GDR and that were therefore also without due reflection in our broadcasts."
We have to admit that our programs were largely about that sunny side of life here and therefore reflected only part of the reality of our society. Public life in the GDR is now determined by a more realistic view of what has been accomplished and what we have not yet accomplished. By the open naming of shortcomings and mistakes, by discussion with those who take a critical view of our past ideas of what socialism should look like, by debate with those who hold dissenting views, and by the search for ways in which this countries communists can sincerely and comradely work together with all others who also wanted socialism. In short, public life in the GDR today is marked by a genuine and democratic new departure towards a modern socialism fit for our modern times. This is the reality and we who work as journalists at Radio Berlin International, accept the challenge .... We accept in all seriousness that it is our duty to be faithful chroniclers of our time and at the same time act as contributors to development. We are going about our tasks in all seriousness, as I said, but also with pleasure. I'm certain that in future many of your questions about our country, including those you never asked us will be answered more fully or even for the first time. Especially questions about the background to events and development about their interdependence and about developments that are still in the making. Doors that have been hitherto been closed to the media and too doors we're too lazy or afraid to push open in the past are now beginning to open. This will enable us to give you wider and deeper insight into our country. We now need your frank and sincere opinions and comments more than ever before, and I promise, in the name of the entire staff of Radio Berlin International, that we'll answer all your questions frankly and honestly."

GUAM - KTWR's Published Sked from 11/5: Africa: EE 16-17 11910; Australia: EE 0930-11 11805; China: Cantonese: 1345-15 11830 & 2145-23 11650; Hakka (Mon-Wed) & Swatow (Thu-Sun) 1330-1345 11830 & 2130-2145 11650; Mandarin: 09-16 11665; 09-12 15485; 0930-1030 11710; 12-1330 9590; 12-15 9870; 15-16 9820; 22-24 11665; 23-2345 15265; 23-2345 15485; Far East: 08-0930 15210; India: All on 11910. 1330 Bora(Mon-Fri), Hindi (Sat-Sun), 1345 Soura (Mon-Wed), Kurukh (Thu-Sun), 14 Tibetan (Mon-Wed), Nepali(Thu-Sun), 1415 Dogri(Mon-Tu), Hindi (Wed-Thu), Guami(Fri-Sun) 1430 Assamese, 1445 Santali, 15 Tamil 1545 Malayalam. EE: 15-1700 on 11650; Indonesia: Indo 1030-12 15240, 22-2330 15420; Japan: JJ 12-1330 9785, 21-22 15485; Russia: RR 0830-09 11665, 11-12 11805. (John Carson, OK)

ISRAEL - Rheshet Bhet announced sked 11-5-3/3: *04-0610 9455, 9385, 7410; 0610-12 21760, 17545, 15615; 12-1625 21760, 17590, 17545, 15615, 11585; 1625-1730 17545, 15615, 11655, 11585, 9455; 1730-19 15615, 9455, 9385; 19-2310* 11655, 11585, 9455, 9385. (bmm)

MONGOLIA - R. Ulan Bator's anned EE sked: Oceania: 0910-0940 12015, 9615; Far East: 12-1230 12025, 9615 except Tue & Fri; S.Asia: 1445-1515 15305, 9645, 9575; Eur: 1940-2010 12050, 4080. (Yukimasa Matsushita, Japan)

SWITZERLAND - A Brief History of Swiss Radio Int'l: 1934 - First experimental broadcast to the Americas. 1935 - In the autumn, regular shortwave broadcasts begin in German, French and Italian, using the transmitter at Frangins in Western Switzerland belonging to the League of Nations. 1939 - The first Swiss shortwave transmitter goes into service at Schwarzenburg, near Berne. (It was destroyed by fire and rebuilt in 1940.). 1941 - The start of regular broadcasts in English, Spanish and Portuguese. 1946 - Transmitter power, 25 kW in 1939, is increased to 100 kW. A seventh language, Esperanto, is introduced to the programme schedule. 1954 - The double task of the Shortwave Service is defined in the new charter granted to the Swiss Broadcasting Corporation by the government: "The shortwave transmissions should serve to strengthen the ties linking Swiss residing abroad with their homeland, and should help to promote Switzerland's image abroad." 1955 - The International Club of Shortwave listeners conducts a survey which places the Swiss in second position in the list of the world's most popular stations. 1961 - The retirement of Paul Borsinger, founder of Swiss Radio International and its director since the 1930s. He is succeeded by Gerd H. Padel. 1962 - The Swiss Shortwave Service is recognised as a separate organisation within the framework of the Swiss Broadcasting Corporation. It introduces an international news service, the first in Switzerland 1963 - The Swiss government approves financial proposals which for the first time provide for involvement by the Confederation in meeting the costs of the Shortwave Service. 1964 - Arabic is officially introduced as a language.
UNITED KINGDOM - BBC's Christmas Program Highlights: Christmas Eve Phone-In: Christmas is a time of giving, a time to think of those less fortunate than ourselves. But how can we really help the poor, the starving and the destitute children? And are there problems facing the world? Such questions are sure to come up in a live international “phone-in” on Christmas Eve, presented by Margaret Percy. She will be joined by a guest with a first-hand knowledge of international work with refugees and charities.

If you call and it is decided to put you on air to ask your question, the BBC will phone you back. The telephone lines will be open on the 24th at 1200 and the programme goes out live between 1400 and 1500 (with edited repeats 2330, Mon 0630). Numbers to ring are London 379-7444 (from outside Britain) or London 379-0411 (in Britain) In Praise of God - 3rd, 10th, 17th, 24th on Sun 1030 rep 1715 (ex 24th). Mon 0630 (ex 25th) Radio Fun at Christmas - Russell Davies introduces excerpts from classic Christmas comedies. We hear the voices of The Goons - Peter Sellers, Spike Milligan and Harry Secombe. Then there's Kenneth Horne w/Kenneth Williams and others in Round the Horne; Tony Hancock and friends in Hancock's Half-Hour; and Gillie Potter, Ronnie Barker and Bernard Braden. The Cast of Dad's Army also provide some seasonal laughs. Sat 23rd 0330 rep Sun 2030, Mon 1330. Words of Faith - The speaker during Christmas week is the Archbishop of Westminster, Cardinal Basil Hume. Daily from week beginning Sat 23rd 0540 rep 0809, 2025. 

Festival of Nine Lessons and Carols - It all started with a Christmas Eve Service devised by E W Benson, later Archbishop of Canterbury in 1898. It was introduced at King's College, Cambridge in 1918 and first heard on radio ten years later, and apart from 1929 has been broadcast by the BBC every Christmas since. Sun 24th 1500 rep Mon 0030, 0935. Looking for a King - Sun 24th 1715 rep Mon 0330, 1101. The Queen's Speech - The Queen's Christmas broadcast continues a tradition begun by her grandfather George V 57 years ago. 0930 ME 639, 720kHz MW (these freqs also carry the Festival of Nine Lessons and Carols at 0935); Australia 9640; Caribbean 6195; 1500 & Cam 15260 & 9515; Caribbean 11775 and 6195; Sam 17830 & 15190. Mon 25th 0930 rep 1500 & 2300. Maggie's Ten Year Turkey - As the snow drifts over Downing Street, Maggie's mind drifts back over the magic moments of a decade of dominance. Denis sips a case of vintage port. The Two Cheers team provides the chestnuts. Wed 27th 1530 rep Thurs 0030, 1930. Drama - Fat Susan and the Christmas Market - Sat 30th 2115. In the Bleak Midwinter - Sat 30th, 0130 rep 1115, 2115. Plays of the Week: Crisis & Even Brightly - Sun 24th 0045 rep 1145, 1845. Short Story - The Waits - Sun 24th 1630, rep Mon 1245, 2009. Music: A Radio Christmas Card - Sat 23rd 1615 rep Mon 0815, 2030. Concert Hall - A special programme of Christmas music, including unusual carols from around the world. Mon 25th 1615 rep Tues 2315. Multitrack - Find out what's in the Christmas top twenty best-selling singles chart by tuning into Multitrack 1 on Christmas Day 25th. Then on Wednesday of Christmas Week in Multitrack 2 you can hear the UK top twenty singles of 1989.

27th. In the final Multitrack 3 of the decade Sarah Ward looks back over ten years of musical innovation and experiments and surveys the current scene to the '80s midnight. Multitrack 1: Mons 1830 rep 2330, Tues 1215; 2: Weds 1830 rep 2330, Thurs 1215; 3: Fri 1830 rep 2330, Sat 1215. & don't miss "The End of the '80s Show on Sun 31st 2315. (Dec 89 'London Calling'). Happy Holidays & Happy New Year 1990!
WESTERN HEMISPHERE
logs by the 12th of the month to:
Thomas F. Sable
University of Scranton
Scranton, PA 18510

ALASKA***KNLS***
7355 1602 "Great American Country" (323 11/2 Park-HI)
9785 0704 RR; EE lessons on puns, ID (343 11/5 Famularo-JP)
9840 0800 IS, ID, schedule, country mx (222 1031 Park-HI)
12025 2000 JJ; Chariots of Fire IS; YL IDs, country mx hosted by OM with American accent (222 11/3 Westenhaver-QU)

ANTIGUA***Deutsche Welle relay***
6040 0100 DW EE; Newsline Koin; editorials (423 10/10 Wright-NF)
17850 0906 DW EE; world nx, E German refugees, peace in Angola (333 10/20 Famularo-JP)

BRAZIL***Swiss Radio International relay***
4885 0255 R Clube do Para ID, vocals, ads (433 10/21 Rogers-MA)
6180 0855 R Nacional ID, TC, mx, ads (323 10/26 Famularo-JP)
11745 0200 R Bras mx, talk (545 10/23 Miller-CA) (Bevens-MA)

CANADA***Radio Beijing relay***Radio Japan relay***Radio Austria International relay***
5960 0122 RJ China to buy more US wheat; Sri Lankan civil war (444 10/24 Brown-IL) (Bevens-MA)
5960 0052 RCI "Spotlight on Science" (343 10/22 Thompson-CA)
6005 1129 CFCKX Magic Memories jingle, nx by Joe King (433 11/1 Westenhaver-QU) (Bishop-MA)
6015 0535 RAI East German exodus, Mozart manuscripts (222 10/9 Park-HI)

CHILE***Radio Nacional***
15140 0032 TC, soccer scores (444 10/22 Thornton-NJ) (Cichorek-NJ)

CLARDESTINE
9942 0400 V C.I.D. Mx, ID, "Happy Birthday" (354 10/16 Hanson-WA)

COLOMBIA*CARACOL*
4865 0750 V Cinaruco vocals, YL talks over instrumental, local ID, Cadena ID (343 10/31 Thompson-CA) (Fischer-WI) (Bishop-NY)
4895 0109 V Rio Arauca LA mx and songs (333 10/20 Bishop-NY)
15425 1233 RCI FF; Talk, ID, nx (232 10/17 Berri-CA)

COLOMBIA*CARACOL*
4865 0750 V Cinaruco vocals, YL talks over instrumental, local ID, Cadena ID (343 10/31 Thompson-CA) (Fischer-WI) (Bishop-NY)
4895 0109 V Rio Arauca LA mx and songs (333 10/20 Bishop-NY)
15425 1233 RCI FF; Talk, ID, nx (232 10/17 Berri-CA)
COSTA RICA***Adventist World Radio***Radio for Peace International***
5030 0432 R Impacto SS YL (555 10/28 Bevens-MA) (Bishop-NY)
6006 0840 R Reloj Pop, EZL mx, ID as “Numero Uno in Costa Rica” (222 10/10
Fischer-WI)
9725 1156 AWR ID as TIASD, inspirational EZL mx (343 11/1 Westenhaver-QU)
13660 0127 RPI ID, Station address, “World of Radio” (433 11/3 Westenhaver-QU)
21565 2050 RPI Astrophysicist interview (233 10/15 Berri-CA) (Prath-FL)
25945 2245 RPI “World of Radio” “Mailbag” (444 10/24 Prath-FL)

CUBA***Radio Rebelde***Motherland relay***Radio Habana Cuba***
4765 2300 R Rodrana RR; nx (433 10/18 Rogers-MA)
5025 0205 RR American rock (333 10/29 Tim Johnson-IL)
11760 0454 RHC EE; Jazz (555 10/28 Bevens-MA)
11820 0232 RHC EE; Jazz (444 10/23 Ehly-IA)
11875 0016 RHC Nx, mx, IS, ID (343 10/22 Berri-CA)
11950 0227 RHC Mx and DJ talk (433 10/23 Ehly-IA)
15155 1330 RHC Nx with OM YL, ID (233 10/24 Berri-CA)

DOMINICAN REPUBLIC
6025 0400 R Amanacer EE; Christian hymn, IS (323 10/22 Fischer-WI)

ECUADOR
4680 0235 R Nacional Espejo talk, TC, ID (242 10/21 Rogers-MA)
4920 0122 R Quito OM talks (333 10/20 Bishop-NY)
5040 0058 V Upano Andean mx, ID, TC (333 10/20 Bishop-NY)
5050 1010 R Jesus Gran Poder religious talk, mx, ID (444 10/7 Rogers-MA)
6050 0245 HCJB Religious program, SS mx (322 10/19 Fischer-WI)
9585 0313 HCJB RR; Heralding horns IS, ID (222 10/11 Park-HI)
9745* 0554 HCJB EE; nx, "Ham Radio Today" with HC1RT (433 11/2 Park-HI)
11775 0500 HCJB EE; SA nx (555 10/28 Bevens-MA)
15155 0215 HCJB Musical Mailbag; new sticker (544 10/27 Reeves-OR) (Hunt-FL)
(Prayer-MA)

FRENCH GUIANA***Radio France International relay***
17620 2257 PP; freqs, nx, pips (343 11/3 Park-HI)

GUATEMALA
3300 0259 R Cultural EE; Religious program (243 10/16 Bevens-MA) (Bishop-NY)
3325 1050 R Maya VV; Organ mx, ID, OM (353 10/1 D’Angelo-PA)
4835 0131 R Tezulutan Religious program with OM (433 10/20 Bishop-NY)
4845 0251 R Kekchi SS; EZL mx, ID (343 10/22 D’Angelo-PA)

HAITI***4VEH***
4930 1040 Creole; messages for listeners, ID, OM talks (343 10/18 Rogers-MA)

HONDURAS
4820 0500 V Evangelica Religious program, Christian mx (333 10/14 Fischer-
WI) (Bishop-NY) (Hunt-FL)

MEXICO
6115 0440 R Universidad de Sonora Classical mx, opera (444 10/21 Miller-CA)
6185 0940 R Educacion soft vocals, ID (343 10/23 Rogers-MA) (D’Angelo-PA)
9555 2320 La Hora Exacta Ads, promos, time (232 10/23 Prath-FL)

NETHERLANDS ANTILLES***TransWorld Radio***Radio Nederlands relay***
6135 0030 RN EE; Red Cross appeal for aid to Ethiopia 333 10/26 Brown-IL)
6165 0043 RN Newline: Construction project (333 10/22 Reeves-OR)
9505* 1052 EE; “Mind Your Own Business” (322 11/4 Park-HI)
9535 0300 TRW EE; Caribbean Corner, ID, address (333 11/4 Brown-IL) (Reeves-OR)
9590 0510 RN SS; little comedy bit (434 10/14 Park-HI)
9630 0752 RN EE; “Media Network” R Tirana contest winner (323 10/9 Park-HI)
(Wright-NF)
11815 1337 TWR Religious program (344 10/28 Bevens-MA)
11890* 1030 RN EE; “Happy Station” (333 10/22 Park-HI)
11930 0313 TWR “Pastor to Pastor” (444 10/26 Reeves-OR)
15315 0115 RN Research File: disposable diapers (333 10/24 Reeves-OR)(Wright-NF)
15345 1245 TWR EE; Religious program, ID (232 10/17 Berri-CA)
21685 1850 RN EE; “Happy Station” (222 10/16 Park-HI)

18
PERU
4790 0945 R Atlantido ID, pop mx, talk (343 10/21 Tim Johnson-IL)
4810 0955 R San Martin NA, ID, announcements, ads, Peruvian vocals (252
10/3 D’Angelo-PA)
4935 1015 R Tropical Commercials, ID, mx (243 10/21 Tim Johnson-IL)
5030 0955 R Los Andes LA vocals, IDs, TCS (10/7 Rogers-MA)
5560 2358 V Cutervo OM chats, YL vocals, mentions “Cajamarca” (333 10/21
Thornton-NJ)

PIRATES***
7355 0306 Hope R 16 America IDs, Cosby as Noah (353 10/21 D’Angelo-PA)
7403 1426 Hope R 16 America IDs, Pirates Den (454 10/15 D’Angelo-PA)
7407 2201 R USA OM with Rock tunes (252 10/28 D’Angelo-PA)
7410 2223 V of the Abnormal Yakon Jack Halloween Special (353 10/28 D’Angelo-PA)
7410 2240 Tangerine R International Hilo Hi address, “Send all your money”
(353 10/29 D’Angelo-PA)
7413 0307 WYMN Pop mx, ID: “Free Radio for the Feminist...” (222 10/29
Fisher-MA) (D’Angelo-PA)
7415 0230 RFM Pop Rock, ID: announcer Victor Short (232 10/29 Fisher-MA)
7484 0317 WBRI Shure mike ad, Rock and Reggae mx (323 10/9 Karcheski-MA)

UNITED STATES OF AMERICA***British Broadcasting Corporation relay***Voice of
Free China relay***
5950 0242 VOFC CCmx (222 10/22 10/26 Reeves-OR) (Levison-PA)
6130 1208 BBC SS; IS, ID, to Central America from VOA Delano site (343 10/30 Westenhaver-QU)
7315 0032 WRRI SS; LA mx (355 10/21 Miller-CA)
7335 0034 WRNO WeightWatchers magazine promo, rock quiz (343 10/13 Wright-NF)
7400 0001 WSHB World nx, Sunday Service (232 10/16 Wright-NF)
7520 0349 WWCR Sermon, ID, address (555 10/9 Karcheski-MA) (Jones-TN)
9455 0659 WSHB Religious program (555 10/24 Bevens-MA) (Wright-NF)
9495 0400 WHRI IS, ID (333 10/14 Fischer-WT)
9590 0003 BBC China to lift martial law (444 10/25 Brown-IL)
9590 1007 VOA Newsside (333 10/20 Park-HD)
9680 0028 VOFC Mailbag: steel (444 10/22 10/26 Reeves-OR)
9815 0054 VOFC Space and Man (555 10/26 Reeves-OR)
9850 1216 KUSW ad for Universal Shortwave/PBWR, pops (344 11/5 Westenhaver-QU)
9850 0020 WCSN China, Middle East, “Newsfocus” (444 10/25 Brown-IL)
13695 2003 WYFR Light Christian mx (433 10/20 Bishop-NY)
13700 1422 WSHB interview on God and Christian Science, mx (232 10/14 Fumaliero-JP)
13760 0808 WHRI “The World for Today” (433 10/18 Bishop-NY)
15145 2344 WNBG OM gives freq and times, into SS for SA mx (355 10/24 Hilo-HI)
15420 2234 WRNO Ad for Air and Space magazine (344 10/25 10/26 Reeves-OR)
15610 2030 WSHB Edward R. Murrow (444 10/19 Langholt-FL)
15650 1822 KUSW ad for Grundig, rock mx (555 10/10 Miller-CA)
15690 1907 WWCR choir mx, sermon (323 10/15 Berry-CA) (Ely-IA) (Bishop-NY)
17612 2247 VOFC CC lesson (444 10/25 10/26 Reeves-OR)
17775 2303 KYOH UPJ nx, “Good News for Today” (333 10/8 Park-HI) (Bevens-MA) (Bishop-NY)
17800 2109 VOA SP Earthquake (433 10/18 Bishop-NY)
17870 2148 WOAF African nx (344 10/16 Bevens-MA)
19525 1945 WWFR II: ID, Freq, YT (433 10/12 Bishop-NY)

VENEZUELA***Radio Nacional***
4830 0121 R Tachira LA pop mx, OM (433 10/20 Bishop-NY)
4940 0130 R Continental LA mx, promos, IDs (343 10/14 Prath-FL) (Bishop-NY)
5940 1105 RN IS, ID, nx, schedule in EE (444 11/4 Prath-FL)

William Westenhaver sends along the following VOA sites for BBC:
Bethany: 9590 0030-0230 World Service
Bethany: 17850 1300-1330 SS
Delano: 9515/11820 0300-0430 SS
Delano: 9690 1100-1130 SS
Greenville: 17715 21-2130 World Service; Caribbean Report

Bill also says that the R Beijing transmissions in SS at 0300 in EE at 0400 are via the
Sackville site in Canada.

Thanks for the information, Bill.

Bye for now.
Here in Independence we had our first snowflake on November 1 and first ground snow on the evening of November 3. Of course it was all melted away by the afternoon of the 4th. For tonight & tomorrow, Nov. 14-15, we have a Snow advisory. As the song says "Let it snow, let it snow, let it snow!"

**ALBANIA** Radio Tirana
5057 0501 Gjirokastër Albanian; wild nx, ment of Washington & Panama, Albanian mx @ 0510 (343 10/14 Dillon-Greece) 0510 tent. Albanian; long string of eastern Eur ethnic mx, OK in presumed Alb. (333 11/7 Thornton-NL)
7205 0419 RT FF; YL/OM tlk, NA, IS & s/off, // 9480 & 9500 (322 9/14 Park-HI)
9480 2250 RT EE; review of upcoming pgms, cl nx, s/off anmt (444 10/23 Prath-FL)
9500 42300 RT PP; IS, FP ID, nx (444 10/23 Prath-FL)
9680 9128 RT EE; wild nx, Living Through Listeners Letters (544 10/10 Williams-Switz.)
9780 2352 RT EE; cl nx, MX w/ tlk, 2355 freq anmt, ID, IS to 0000, ID in unid lang (434 10/4 Cichorek-NJ)

**AUSTRIA** Radio Austria International
6155 #1430 RAI EE; SW Panorama, nx about Radiobras, SPEEDX was mentioned, 1500x (555 10/8 Williams-Switzerland)
9870 0130 RAI EE; nx, feature on Austrian mentality (444 10/27 Rogers-MA) 0130 EE; Rpt from Austria, Czech. PK visits Austria, U.S. Ambassador to Austria retires (333 10/24 Brown-IL)
13730 0130 RAI EE; Rpt from Austria (433 10/15 Bishop-NY)
15430 1132 RAI EE; wild nx, songs & marches about wine (fr-gd 11/3 Fumaluro-Japan)
21490 0840 RAI EE; ID, reports, no QRM, but QSB (252 11/7 Fumaluro-Japan) 1349 SS; nx, OM w/ ID @ 1350 (333 10/9 Berri-CA)

**BELGIUM** Belgische Radio en Televisie
11695 #4000 BRT EE; IS, ID, nx headlines, nx, spts, tlk (pr-fr 10/27 Fumaluro-Japan)
13675nf 1802 BRT Dutch; HS relay?, nx, mainy Belgian items, 1811 local traffic rpt, Brussels stock market rpt, intvw (333 11/2 Westenhaver-QU)
26050nf 1157 BRT Dutch; IS, ID anmt ment this freq // 21810?, 6 time pips for 1200, nx (243 10/24 Westenhaver-QU)

**BULGARIA** Radio Sofia
11660 2320 BS EE; DX pgm, end of EE transmission, IS, ID in FF, nx (444 11/1 Prath-FL) 0207 EE; folk mx, symphonic mx, piano solo (444 10/7 Levison-PA) 2248 EE; environmental issues, Answering Your Letters (444 10/22 Cichorek-NJ) 2309 EE; letters from listeners, Socialist Horizons (433 10/1 Woering-MA)
11735 0435 ES EE; YL/OM w/ essay contest details, salsal mx (333 9/27 Paris-HI)
11750 0330 E. Moscow relay (Plovdiv) EE; ID, tlk, pop mx, condoleance on San Francisco earthquake, Moscow Mailbag (534 10/19 Miller-MA)
11765 0315 BS EE; nx, QRM de Havana, comry (443 10/15 Miller-CA)
15330 0000 BS EE; Bulgarian-Turkish relations (322 10/31 Rogers-MA) #1530 Turkish; s/on w/ ID "Burasi Sofia Radiosu," prob. sked, nx (433 10/31 Westenhaver-QU) 0036 EE; how to use a bamboo fishing rod for a radio antenna (434 10/11 Hunt-FL) 0045 EE; Music from Bulgaria (454 10/17 Fraser-MA)
15385 1733 BS AA; ID "Huna Sofia," cultural pgm (433 10/21 Dillon-Greece)

**CZECHOSLOVAKIA** Radio Prague
6055 222S BP EE; end of pop mx pgm, into pgm in Czech @ 2230 (444 10/21 Prath-FL)
7345 0100 BP EE; solidarity in Poland, necessity of E. German state (555 10/11 Wright-WP) 0130 EE; Request Concert. Bedrich Smetana featured (454 10/30 Fraser-MA) 0105 EE; int'l nx (555 10/25 Buevna-MA)
9540 0159 BP ID in various langs w/ trumpet fanfare (333 10/13 Hunt-FL)
11990 0325 BP EE; Youth Magazine, Children w/ learning disabilities (333 10/12 Fischer-WL)
15540 0112 BP EE; tlk on G.D.R., Czechoslovakia, mailbag, DX pgm (443 11/3 Miller-CA)
ITALY continued

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<thead>
<tr>
<th>Time</th>
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<th>Description</th>
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<tbody>
<tr>
<td>2354</td>
<td>1940's mx</td>
<td>RAI 11; one song skipped for 4 minutes—wake up Mr. DJ! (444 10/16 Wright-MF)</td>
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PORTUGAL

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<th>Time</th>
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<tr>
<td>0230</td>
<td>422 10/14</td>
<td>RAI World Radio; mx, Collectors Corner, QRM de Vatican SS evoc until 0240 (422 10/14 Rogers-MA) 0231 EE; once Portugal, mx, sked (444 10/24 Miller-CA) 0247 EE; Portugal past &amp; present, Portugese-Japanese ties (333 11/2 Brown-IL)</td>
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POLAND

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<th>Time</th>
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<tbody>
<tr>
<td>2319</td>
<td>EE</td>
<td>Chopin's Revolutionary Etude, ID @ 2331 (433 10/15 Cichorek-NJ)</td>
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NETHERLANDS

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<th>Time</th>
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<tbody>
<tr>
<td>1102</td>
<td>121/11/5</td>
<td>R. Atlantic EE/GB; DJ, pop mx, ID @ 1108 (121 11/5 Willers-Switzerland)</td>
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<tr>
<td>2307</td>
<td></td>
<td>R. London EE; DJ, mx from Steve Miller Band, Queen, many IDs, address P.O. Box 669, Hoogeveen, Neth. (323 11/5 Willers-Switzerland)</td>
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<tr>
<td>2345</td>
<td></td>
<td>R. Moonflower EE; DJ, mx from Pink Floyd, Alan Parson, freq, address, many IDs (323 11/5 Willers-Switzerland)</td>
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NORWAY

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<tbody>
<tr>
<td>1150</td>
<td></td>
<td>R1 Norway International; IS, ID in EE, into Norw. pgm (444 10/27 Jones-TN) 0630 Norw.: local E2L mx, checked earlier but was in Norw., no EE!, // 15165, 21705 &amp; 21725 (122 9/23 Park-HI)</td>
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NETHERLANDS

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<tr>
<td>0432</td>
<td></td>
<td>EE; mx, rpt on the destabilizing effect of S. Afr. on the region, Wall Street falls 190 points (333 10/13 Brown-IL)</td>
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Pirate

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<tr>
<td>1105</td>
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<td>R. Waves Int'l EE; DJ, mx from Hot House Flowers, Texas, ID (122 11/5 Willers-Switzerland) site France? Netherlands?</td>
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POLAND

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<td>2230</td>
<td></td>
<td>EE; IS, mx, Postbag pgm w/ mx &amp; listeners letters (343 10/13 Prath-FL)</td>
</tr>
<tr>
<td>2319</td>
<td></td>
<td>EE; Chopin's Revolutionary Etude, ID @ 2331 (433 10/15 Cichorek-NJ)</td>
</tr>
</tbody>
</table>
UNIDENTIFIED
15215 0618

UNITED KINGDOM

SWITZERLAND

SWEDEN

YUGOSLAVIA

VATICAN CITY

WBC

Radio Exterior de Espana

Recognizable language: English
4635 0145 Tadzhik R.-Dushanbe (PWBR): ??; M tlk in unk. lang., weak, polar flutter (233 10/31 Kunkel-C).A)

4740t 1745 R. Afghanistan Relay: Pashto/Dari; M tlk w/ class. mx in background, @ 1815 into folk mx, no ID (444 10/6 Dillon-Greece).

4785 1850 R. Baku-Baku (PWBR): Azerbaijani; Turkish-style mx, ann. by W, TP, Baku ID, wld mx (444 10/6 Dillon-Greece) (Kunkel-C).A)

4820 1955 Khanty-Mansiysk R.-Khanty Mansiysk (PWBR): RR; W ancr, class. mx, off @ Khanty-Mansiysk R., Khanty Mansiysk (PWBR)


4940 0135 R. Afghanistan Relay: ??; Koran reading, @ 4740 (343 10/31 Kunkel-C).A)

4940 0445 RK: Ukrainian; W w/ tlk, class. mx (444 10/14 Dillon-Greece).

5905 1023 RM-Vladivostok (ILG): JJ; W w/ winter JJ sked, M tlk @ 1027, @ 5920, 9865, 9895 (322 9/22 Dillon-Greece)

5905 2235 RRMP-Serpukhov (PWBR): EE; tlk abt cultural exchange (343 10/14 Prath-FL)-Fl)

6020 1630 RM-Khabarovsk (PWBR): EE; nx brief, "New Market" pgm, @ 7265, 7370 (434 10/31 Park-HI).


7230 0115 RM-Tula (ILG): RR; M tlk (444 10/29 Kunkel-C).A)

7265 1432 RM-Petropavlovsk: EE; tlk on sports in USSR, "Inside Report", nx, nx (544 11/2 Miller-C).A)

7290 0155 RM-Ivano Frankovsk (ILG): EE; rpt on Noriega & Panama, nx (333 10/11 Brown-I) (Miller-C).A)

7310 0408 RM-Ivano Frankovsk (ILG): EE; nx, "News & Views" (423 11/5 Carson-O)

7360 2100 RM-Moscow (ILG): EE; nx on UFD landing, @ 7370 (433 10/9 Rogers-M).


9610 2308 RV-Alma Ata (ILG): EE; tlk on Lithuania, freq, nx (444 10/31 Miller-C).A)

9610 0300 OK-Alma Ata (ILG): EE; nx, supreme soviet meeting (433 10/29 Carson-O).

9640 1606 RM-Petropavlovsk: ILG; EE; M ID, wld nx, sports (343 10/15 ed)

9715 1201 RM-Tashkent (ILG): EE; M ID & freq's, nx, @ 11785 (312 11/4 Park-HI)


9865 2215 RM-Vinnitsa (ILG); EE; tlk on Berlin Wall (555 10/6 Fraser-H) (Prath-FL)

9895 0115 RM-Budapest (ILG): EE; M tlk abt US-Japan military relationship, ID, slow rock mx, @ 5905, 5920, 9865 (433 9/9 Park-HI).

11675 2259 RV-Lvov (ILG): EE; nx on Lithuanian supreme soviet (434 11/3 Carson-O).

11710 0431 RM-Petropavlovsk: ILG; EE; "Moscow Mailbag" (322 11/5 Carson-O).

11775 0424 R. Orbita-Chita: RR; speech by Gorbachev (323 10/27 Park-HI)

11785 1200 RT-Tashkent (ILG): EE; IS, s/on by W, nx (232 10/21 Prath-FL)

11930 0039 RM-Ashkhabad (ILG): IS; W s/on, weak (252 10/25 Kunkel-C).

11980 2245 RG&PR-Kharkov (ILG): EE; discussion, class. mx (444 11/3 Carson-O).

12000 0310 RK: EE; "Ukraine Today" (333 10/12 Fischer-WI)

12015 1807 RM-Yerevan (PWBR): EE; wld mx, "Top Priority" (222 9/3 Park-HI).

12030 0533 RM-Petropavlovsk (ILG): EE; tlk abt Russian Orthodox council, CRM (333 10/14 Carson-O).

13155 1103 RM: EE; nx, entry on Gorbachev visit to Finland (343 10/27 Carson-O).

13520 1345 RM: EE; RR lang. Lesson into nx @ 1400 (323 10/26 Carson-O).

13530 0159 Radioinstantiya Rodina: RR; ID, IS (555 10/15 Trescher-PA).

13530 1259 RM: ??; M ID, W ID, into unknown lang., very weak (222 10/17 -ed)

13575 1655 RM-Sirferopol (ILG): RR; mx w/ W ancr., ID @ 1726, RM IS, Mayak ID (444 10/21 Dillon-Greece).

14570 1227 RM: EE; ME mx, M ID @ 1228, s/off (122 10/17 -ed)

15490 1225 RR-Tula (PWBR): EE; w/entry, M ID, @ 15550, weak (212 10/17 -ed)

15520 0533 RR-Minsk (ILG): FF; mx, ID @ 0536, ship w/ French trade union official, @ 15545, 15570 (433 11/3 Wenthenaver-QU).

15550 1221 RM-Zhigulevsk (ILG): EE; M w/ tlk, W ID (222 10/17 -ed) (Park-HI)
| 15585 | 0325 | RSRP-France (ILG): PP/SS; Rock nx, 1D "Fata a Erosora Paz e Progresso" & s/off, clarinet IS, SS 1D @ 0330, nx (322 9/7 Park-HI) |
| 15585 | 1211 | RM-Simferopol (ILG): EE; "News & Views", @ 15550 (344 10/7 Rogers-MA) |
| 17570 | 1211 | RM: EE; "News & Views", @ 17815 (343 10/26 Westenhaver-QU) (Park-HI) |
| 17575 | 2005 | RM: EE; african nx (555 10/14 Bevens-MA) |
| 17655 | 0930 | R. Afghanistan Relay-Kazan (ILG): EE; talk on political relationship w/ USSR, nx, W t/ik, nx, ID & address @ 1028, @ 21600 (10/26 Fabulac-JP) |
| 17765 | 2300 | By-Petropavlovsk (ILG): EE; IS & ID, "Report From Estonia", "Events in Views", @ 15180, 17690 (332 11/4 Park-HI) |
| 17765 | 0925 | PK-Petropavlovsk (ILG): EE; "Radio Friendship Bridge" (322 10/30 Park-HI) |
| 17765 | 2330 | R. Minsk-Petropavlovsk (ILG): Byelorussian; unfamiliar IS, W w/ 1D "Havorits Minsk..." & sked, M w/ nx (222 11/4 Park-HI) |
| 17830 | 1300 | RM-Moscow (ILG): EE; nx, "New Market", @ 17645 (242 10/3 Rogers-MA) |
| 17840 | 0910 | RM-Petropavlovsk (ILG): EE; nx, "Outlook", @ 7150 (242 11/2 Prath-FL) |
| 17870 | 1057 | RM-Chita (ILG): CC; IS, nx, ID, presumed nx (444 9/12 Park-HI) |
| 17880 | 0445 | RM-Irkutsk (ILG): EE; "Moscow Update", @ 21690 (343 11/1 Prath-FL) |
| 21470 | 0153 | RM-Petropavlovsk (ILG): EE; Moscow trade fair (333 10/23 Park-HI) |
| 21545 | 1158 | RM-Kenga (ILG): Swahili/RR; anmts, IS to 1200 (343 10/31 Westenhaver-QU) |
| 21590 | 0250 | RM-Khabarovsk (ILG): EE; "Inside Report" (444 10/16 Fischer-WI) (Park-HI) |
| 21785 | *1600 | RM-Tbilisi (ILG): Sonali; "Halkan wa R. Moscow" ID & opening anmts, W w/ nx (344 11/2 Westenhaver-QU) |
| 21800 | 1270 | RM-Simferopol (ILG): EE; nx, 1D, "Folk Box" (232 10/24 Westenhaver-QU) |
| 25790 | 1225 | RM-Starobelsk (ILG): EE; "News & Views", nx, "Music at Your Request" (444 10/14 Prath-FL) (Westenhaver-QU) |

**Relays - Mis/Unidentified**
9600 @ 0416 in EE - Havana relay 9745 @ 0310 in SS - Havana relay
9720 @ 0204 in EE - Havana relay 10344 @ 1550 in EE - USB feeder
9720 @ 2212 in EE - Havana relay 25895 @ 0928 in AA - this is V.O.UAE

**Schedules**
Radio Minsk NA svc in Byelorussian: 2330-2400 17690 15180 11675 9610
Radio Tashkent in EE: 1200-1230 & 1330-1400 15470 11875 9715 9600 7325
(SCDX 2068 & 2067 via ANARC BBS)

**D89 RM services to NA in EE**

| 5905 | 6003 | 6045 | 7115 | 7115 | 7175 | 7230 | 7260 | 7270 | 7310 | 7345 | 9505 | 9655 | 9700 | 9750 | 9825 | 9865 | 9905 | 11170 | 11770 | 11790 | 11840 | 12050 | 15180 | 15405 | 15425 | 15605 | 15805 | 17685 | 17890 | 17900 | 17970 | 17980 | 17990 | 18740 | 21470 | 21860 |
| 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| **PROBABLE SITE** |
| VLADIVOSTOK |
| HAVANA, CUBA |
| HAVANA, CUBA |
| PLOVDIV, BULGARIA |
| LVOV |
| KHABAROWSK |
| BLAGODECHENSK |
| NIKOLAYEVSK |
| KOMSOLOMSK |
| KHABAROWSK |
| IVANO-FRANKIVSK |
| PETROPAVLOVSK |
| KOMSOLOMSK |
| LVOV |
| PLOVDIV, BULGARIA |
| PLOVDIV, BULGARIA |
| PETROPAVLOVSK |
| LVOV |
| VLADIVOSTOK |
| PETROPAVLOVSK |
| IVANO-FRANKIVSK |
| LVOV |
| PETROPAVLOVSK |
| PETROPAVLOVSK |
| LVOV |
| VLADIVOSTOK |
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(RM direct, S/D 89 ILG, WRTH via Andy Sennitt on ANARC BBS)
Thanks for your tremendous support. CU next month --Jason
Hello again! This month I'm using a word processor to help me type this column. The owner's manual says it can make even me appear to be smart to you nice people. We'll see. Hopefully, I'll be able to correct my typing mistakes long after they were originally made, but I am still learning how to use it, so you will have to continue to be patient. It is said that practice makes perfect, but whoever said that never listened to RAI's "Dead Lady" read the news, hihi. Special thanks to Utility Scene editor Paul Lannuier, who designed the new masthead for this column. In fact, it was created after I mailed the November column in to Ed Janusz, and I didn't get to see it until the bulletin was published, just like you. We should be able to squeeze in a few more logs with the added space.

ANGOLA
4955v 0315 R.Nacional: PP: M tx in PP (433 10/22 Bishop-NY)
7215(p) 0604 R.Nacional: FF: M w/news to 0606; ments of "Angola" & "Nacional" make this most likely. Originally thought it might be Cote d'Ivoire because of FF: (333 11/3 Thompson-CA)

ASCENSION
15400 2132 BBC: EE: Disc of WW II. (545 10/14 Bevens-MA)
21660nf 1700 BBC: EE: ID & mx headlines, then back to "Sportsworld" (444 11/4 Westenhaver-PQ)

BENIN
4870 2258 ORT du Benin: FF: African instrumental mx. Full ID @ 2300 (222 11/4 Cichorek-NJ)

BOTSWANA
4830 0356 BB: 0356 EE: Barnyard IS; 0358 NA; 0400 m w/ID and sked in EE. (444 10/31 Evans-TN)
4830 0355 BB: 0355 EE: Barnyard IS; NA; Much QRN, no QRM. (221 10/31 Miller-CA) (My first psychic DXers! ed.)
4830 0358 BB: 0358 EE: IS, NA @ 0359 EE ID & freq info into SET msg. (322 11/5 Rogers-MA)

CENTRAL AFRICAN REPUBLIC
5034.5t 2141 ETV Centraficaine: FF: Prog of mx & tx co-hosted by M & W lost in QRM by 2220. (212 11/10 Thornton-NJ)

CHAD
4904 0428 R. Tchadienne: FF: NA, M w/ID and sked. ID as "Radio Tchad", TC, Hi-life mx, M annr (444 10/14 Dillon-Greece)
4904.5 0430 R. Tchadienne: FF: ID in FF and children singing (242 10/23 Johnson-IL)
4904.5 1755 R. Tchadienne: AA: M & W in disc; AA singing; no ID at top of hour (333 Miller-Switzerland)
5286.3 0458 R. Moundou: FF: IS, NA, children's chorus (like R. Nacional on 4904.5) At 0500 "Ici Moundou..." Freq info, then Afro pops & local mx. Best in USB. (212 11/8 George MA)

EQUATORIAL GUINEA
5004 2155 R. Nacional: SS: Latin style mx, chime @ 2200, ID, NA carrier off at 2203. (343 10/7 Rogers-MA)

EGYPT
9475 0230 R. Cairo: EE: Tx by L, AA mx (222 10/25 Miller-CA)
9900 0320 R. Cairo: EE: Holy Quaran, M w/annm, ID @ 0328, brief Mid-East mx interlude, off at 0330 (444 10/14 Rogers-MA)
12050 2104 R. Cairo: AA: W w/mx & occas. "...min al-Qahira" IDs; @ 2111 into interview px--one flamboyant M interviews another (444 11/4 Westenhaver-PQ)
GABON
9580 1859 Africa #1 EE/FF: W/w roundup of African mx; 1900 ID into M tx in FF. (333 11/9 Cichorek-NJ)
11800 0015 R. Japan: EE: Lang lessons, pop mx. (424 10/20 Miller-CA)
11835nF 2342 R. Japan: EE: Mailbag show. Disc abt program tastes of Japanese SWLs. This freq ex-11765. Splashed by VO the VOA 11830 (333 11/5 Westenhaver-PQ) 
15475 2007 Africa #1: FF Hi-life mx, vocals. Great indigenous mx. ID @ 2031 (444 11/7 Cichorek-NJ)
21700 1552 R. Japan: EE: M & W tx abt Tokyo; mx abt Tokyo; ID & s/off w/freq sked. (433 10/1 Willers-Switzerland)

GHANA
4915 0529 GBC-1: EE: Drums IS, ID then African style mx. (242 Johnson-IL)
4915 2157 GBC-1: FF/EE: M w/pres mx, ments of Angola. Afro-Tribal vocals @ 2159. ID in EE at 2200. TC by W, followed by religious tx. (333 11/9 Cichorek-NJ) 

KENYA
4934 2059 VOK: EE: ID "This is the Voice of Kenya, Nairobi" EE nx @ 2100 TC for 2 min after midnight at 2102. Rel prog at 2103 "Goodnight" @ 2107, hymn w/pres NA 2108* (243 11/5 George-MA) 
4934t 0219 VOK: EE: Regional nx, QRM de overpowering Peruvian. (433 10/10 Kunkel-CA) (I wish more Peruvian stations would overpower me at my QTH-but not over VOK ed.) 
4934 0302 VOK: EE: News read by M. ID at 0309."This nx broadcast comes to you from the Voice of Kenya, Nairobi" Into tribal vocals at 0315 (454 10/19 D’Angelo-PA)

LESOTHO 
11940 0529 BHC: W w/"Waveguide" disc the future of SSB w/guest; @0540 "Words of Faith" (122 30/30 Park-HI)

LIBERIA
4760 2138 ELWA: EE: M tx abt Jesus (322 10/19 Bishop-NY) 
6035 0419 VOA: EE: Casual ID, disc of small business in USA; disc of education. (433 10/8 Cichorek-NJ)
15600 1711 VOA: EE: Nx re bombing of Sudan, suspension of all flights into Sudan, casual ID's (333 11/1 Cichorek-NJ)
15600 1630 VOA: EE: Mx; "Sports Journal" inc interview w/Kona Ironman Triathlon participant Paula Newby Frasier of Zimbabwe (333 10/30 Park-HI)

LIBYA
15442.7 0320 SPLAIJBC AA: Mideast pop mx; next day to was noted on IS439.9 (423 10/11 Park-HI)

MADAGASCAR
15150 1506 R. Nederland: EE: "Media Network" w/demo of "Road Runner" Macintosh software that operates an R-5000 or R-71A (333 10/5 Park-HI) (good luck if you do get it, Dale. ed.)
15560 2010 R. Nederland: FF: Prog of LA mx, ID @ 2025, off abruptly (343 10/8 Rogers-MA) 
21685 1900 R. Nederland: GG: Jonathan Marks with mx by State Police Band; multipath echo. NA 1924* (455 10/8 Kunkel-CA)

MALI
11790 2339 R. Beijing: SS: ID and into CC lesson about asking directions. No, not "which way to the massacre, please?" Site per PWBR '90 (333 11/5 Westenhaver PQ) 
15110 1616 R. Beijing: EE: Mx, W w/ID details of program to follow (333 10/15 Berri-CA)
SOUTH AFRICA

11935 0240
11745 0010
9615 0235
9580 0200

SOUTH SUDAN

SEYCHELLES

7275 0030 FEBA: Hindi: M w/music; outstanding signalling 0201*
        (455 10/29 Kunkel-CA)
11730 0309 BBC: EE/SAWHILLI: "EE by Radio" evaluating Sting's
        record "I'm an Englishman in New York" (233 10/30 Park-
        HI)
11930 1628 FEBA: VERN: IS then s/on in Malagasy followed by mx.
        (454 10/21 Kunkel-CA)
15420 0300 BBC: EE: World news. (333 10/13 Bevens-MA)

SIERRA LEONE

1635 0415 Deutsche Welle: EE; "Africa Report" w/story on Jimmy Carter
        negotiating the war in Eritrea. //7225 QRM de VOA 9575 (444
        Park-HI)

RTV Marocaine: AA: Instrumental mx and vocals in AA; then W
        vocalist with AA selection. No ID heard but who else would
        be in AA on here at this hour? (333 10/20 Chichorek-NJ)

RTV Marocaine: EE: Jazz mx; ID @ 1532; another ID at 1534; more E-Z
        listening "new age" mx (444 10/9 Karcheski-
        MA)

RTV Marocaine: LL: Mx by Prince, Hall & Oates, & Chic then
        abruptly off @ 1659 (122 10/13 Park-HI)

NIGERIA

9580 0220 Radio Arikaner SABC: AFKNS: 0330

MOROCCO

3316 2311 "This is the Sierra Leone Broadcasting Service" followed by singing in Vern.
        (prayer?) 2316 M announc w/ID @ S/off anncmts @ NA 2318*
        (252 10/6 D'Angelo-PA)

Nigeria: EE by mx. (333 10/9 Karcheski-MA)

Nigeria: EE: Nigerian nx inc review of the Nigerian
        press. (433 10/31 Roger-MA)

Nigeria: EE: Nx- M & W tx about 2 party system in
        Nigeria, funds for agricultural system & Nigerian Air Force
        Casual IDs heard. (222 10/30 Chichorek-NJ)

Nigeria: EE: "EE/SWAHILI: "EE by Radio" evaluating Sting's
        record "I'm an Englishman in New York" (233 10/30 Park-
        HI)

Nigeria: "EE by Radio" evaluating Sting's record "I'm an Englishman in New York" (233 10/30 Park-
        HI)

Nigeria: EE: Nx inc review of the Nigerian press. (433 10/31 Roger-MA)

Nigeria: EE: "EE/SWAHILI: "EE by Radio" evaluating Sting's
        record "I'm an Englishman in New York" (233 10/30 Park-
        HI)

Nigeria: EE: Nx inc review of the Nigerian press. (433 10/31 Roger-MA)

Nigeria: Nx read by M, ID @ 2311 "This is the Sierra
        Leone Broadcasting Service" followed by singing in Vern.
        (prayer?) 2316 M announc w/ID @ S/off anncmts @ NA 2318*
        (252 10/6 D'Angelo-PA)

Nigeria: EE: Nx read by M, ID @ 2311 "This is the Sierra
        Leone Broadcasting Service" followed by singing in Vern.
        (prayer?) 2316 M announc w/ID @ S/off anncmts @ NA 2318*
        (252 10/6 D'Angelo-PA)

Nigeria: EE: Nx inc review of the Nigerian press. (433 10/31 Roger-MA)

Nigeria: "EE by Radio" evaluating Sting's record "I'm an Englishman in New York" (233 10/30 Park-
        HI)

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        HI)

Nigeria: "EE by Radio" evaluating Sting's record "I'm an Englishman in New York" (233 10/30 Park-
        HI)

Nigeria: "EE by Radio" evaluating Sting's record "I'm an Englishman in New Yor
new freq for D89. Mixing badly w/co-chan BBC in AA; heard Spain's IS on the freq. (322 11/5 Westenhaver-PQ)

15365 1635
CLANDESTINES

7475c 2330
 chlorine

17745 0521
R. RSA: FF: DJ prog w US & S.African pops; M DJ chat plenty of casual IDs in passing and Johannesburg TCs. noisy but //15365 (SIO 343) much less so. (333 11/3 Westenhaver-PQ)

17765 1900
R. RSA: EE: 1900*, nx; mailbag show w/Shirley and Kathy. Last day for this freq; will be replaced for D89 by 15125 (343 11/4 Westenhaver-PQ)

21460 1851
R. RSA: FF: "Disques d'auditeurs" mx request program w/ID & stn address 1858; into nx @ 1900 (333 10/22 Westenhaver-PQ)

21535 1845
R. RSA: EE: DX program; pop mx. (444 10/22 Miller-CA)

21535 1545
R. RSA: EE: This week's S.African Hit Parade-Tracy Chapman's "Crosroads" is #1; nx briefs & close down anmts; IS; 1554* Better signal than usual. (444 11/4 Westenhaver-PQ)

21535 1947
R. RSA: EE: M tx, nx in brief. (433 10/12 BishopNY)

21535 1356
R. RSA: EE: IS, M w/ID, TC, freq info, into nx. (232 10/9 Berri-CA)

25790 1540
R. RSA: EE: Talk abt London-Cape Town charter flight to carry thousands of tourists to South Africa (343 11/2 Westenhaver-PQ)

25790 1456
R. RSA: EE: Historical almanac, 6 time pips to 1500, TC, ID and freq anmts. Nnx inc Namibia elections. //21535 poor. (343 11/7 Cichorek-NJ)

SUDAN

1625 1520

SWAZILAND

15210 1814
TWR: EE: Bible study program w/M w/hvy African accent; instrumental mx, ID w/address (322 Park-HI)

15150 1526
TWR: FF: IS & IDs; mx & annmt @ 1530. (211 11/10 Reeves-OR)

TUNISIA

7475 0450
RTV Tunisienne: AA: Mx prog followed by pres nx. (333 10/14 Hunt-FL)

7475c 2330
RTV Tunisienne: M chanting in AA; M tx in AA at 2333; stringed instrumental mx; more AA tx w/freqs; 2335* (555 10/10 Karcheski-MA)

7475 2255
RTV Tunisienne: Mid Eastern mx, ID at 2259, nx w/distinct interludes between headlines. (242 10/31-Rogers-MA)

CLANDESTINES & UNIDs

9700 0454
Voice of Black Cockerel: PP: Carrier; then IS of guitar, drums and cock crow + IDs by M "Esta es A Voz do Resistencia da Pollo Negro"; complete IS. (322 Park-HI)

4066 0220
Clandestine (Presumed) Site unknown. M chanting in AA interspersed w/martial band mx; 0288 AA orchestral mx; abrupt 0229* (333 10/5 Karcheski-MA)

10325 0041
unknown M chanting in pres AA to abrupt 0043*. (333 10/19 Karcheski-MA)

1528t 0410
Palestine Radio? AA: Variety program in AA w/ M & W (333 10/5 Kunkel-CA)

FILL THAT GAP! Well, I guess that is about going to do it for this month. Remember, this is your column, I just get to edit it. Let me know what you like and don't like about it. I enjoy your letters as well as your loggings. Keep those logs coming, they are a whole lot more interesting than anything I have to say. Enjoy the Holidays and remember to have fun with your radio! 73s and good dx.
Well, December's another one of those months when I have to fit seven pages of loggings into a five-page column. It's obvious that the awful propagation conditions for a few days in October didn't stop our intrepid contributors from hearing lots of nifty things the rest of the month. Fine business, everybody!

AFGHANISTAN

Radio Kabul

4940 0148 (p)RK: PASHTO? M (rel?) tk; central Asian/Islamic mx; conditions are looking up! (pr-fr 10/26 Howell-CA)
6085 0135 (t)RK: ?? Qur'an; faded by 0143; I just don't know if this is Kabul or Oman through the fade is sunrise Afghanistan (252 10/28 Kunkel-CA) (Rolan, the latest ILG lists Oman w/an *0200 s/on time.-ed.)
7199.2a 0137 (t)RK: ?? weak (p) Qur'an; faded by 0148; no ID and not hrd since; heavy QRM (333 10/8 Kunkel-CA)

AUSTRALIA

VLM/VLQ Brisbane  VLM Wanneroo Radio Australia

4920 0842 VLM: Correspondents rpts; nx (322 10/15 Moon-CA)
9610 0645 VLW9: EE: Pop mx; under HCJB in GG (322 10/11 Moon-CA)
9660 0835 VL29: EE: Lengthy football scores (444 10/15 Moon-CA)
15425 0717 VLM15: EE: Dept. of Agriculture interview on soil conservation (443 10/11 Moon-CA) (Welcome to the column, Terry!) @ 0830 w/mx: ABC TV promo/PSA; "ABC Radio Statewide, it's half past four" (454 10/16 Hanson-WA)

RA was logged this month as follows: 7205 in EE by Thornton-NJ; 7215 in EE by Cichorek-NJ; 9580 in EE by Bevens and Fraser-MA and Wright-NF; 9655 in EE by Jllers-SW; 11800 in EE by Prath-FL; 17750 in FF by ed.; 17795 in EE by Bevens-MA and Miller-CA; 21525 in EE by ed.; 21740 in EE by Bevens-MA, Cichorek-NJ and Fischer-WI. Sorry for the condensation-ed.

BANGLADESH

Radio Bangladesh

4880 1540 RB: EE/BENGALI: M EE mx of Commonwealth conference; ID: into Bengali mx w/speech exerpts (pr-fr 10/20 Famularo-JAPAN)
15195 *1230 RB: EE: "This is Dhaka calling" by W; frq amnt; formal ID by W and into mx; poor audio (222 10/29 Cichorek-NJ)

CHINA

Central People's Best Stn Radio Beijing

4680h 1530 FUJIAN PBS: CC: W tlk; this is 2nd harmonic of 2340; also hri 3rd harmonic on 7020 and 4th on 9360 (pr 10/20 Famularo-JP)
4760 1057 YUNNAN PBS: CC: Inst mx to 1059; W ID and 5 short plus 1 long TP; into M/W mx...1132 fadeout (252 10/17 D'Angelo-PA)
4915 1455 GUANGXI PBS: CC: EE country mx tunes--rather unusual px for them! (343 10/14 Pimblett-AB) (Welcome back, Nigel!-ed.)
6095 1526 TAIWAN-2: CC: Classic CC mx mixed w/CC elevator mx (353 10/21 Kunkel-CA)
6955 *1100 RB: ESPERANTO: IS and ID's sounding like "Parelo Radio Pe-Kino" (p) tlm list and M/W mx; QRM is ate on 6958; hrd // 9480 (323 10/4 Park-HI) (Welcome to the column, Dale!-ed.)
7155nf 1530 CPBS-1: CC: Classic CC theatre; distorted modulation; // 7504 (343 10/28 Kunkel-CA)
7770 1055 CPBS-2: CC: MX/MX/tlk; @ 1100 TP/W ID; 5 mins nx and back to mx (242 10-21 Prath-FL)
8660 1540 RB: ?? W tlk in unID lang; ment "Moscu"; listtel in 1990 PWBR as RB feeder, but best was in AM mode (333 10/14 Berri)
9665nf 1217 RB: EE: CC press review; ID; travelogue of Hebei province; back here for D89; ex-17855 (343 11/11 ed.)
CHINA continues...

15590 0455 CPBS-1: CC: Light CC pops w/M ancr: //15550 (455 10/5 Kunkel)
H8 also logged as follows: 11500 in EE by Cichorek-NJ; 11510 in EE by Willers-
SW; 11755 in EE by Cichorek-NJ; 15260 in Hakka/Cantonese by Rogers-MA; 15290
in SS by el.; 17855 in EE by Brown-IL, Cichorek-NJ, Langlois-PL, Robinson-TN,
and Wright-NJ.)

FRENCH POLYNESIA

9799.1 0835 FPO: FF: M tlk w/group applause (333 10/15 Moon-CA)

GUAM

KSDA 13720 1000 KSDA: EB: Nwx abt Asia and NZ (333 10/15 Pichler-WI)
KTWR 15205 0802 KTWR: EB: IS; M ID/px preview; into "Our Daily Bread" taped
in Grand Rapids MI (333 10/1 Park-HI)

15225 0529 VO HOPE VIA KSDA: CC: M ID/ed. in EE; then CC radio drama
(454 11/1 Matsushita-JAPAN) (Yukimasa rpts that VO Hope is using this relay via
KSDA until they get their own station
built; the sked is 15225. Mon-Fri, 0400-0500 KK, 0500-0600
CC, 0600-0800 EE. Thanks for the info! ed.)

HONG KONG

BBC WS relay in EE rptd this month on 15280 by Kunkel-CA.
Rogers-MA and el.; on 17875 in EE by Wright-NF; on 21715 in EE by Hanson-MA,
Matsushita-JAPAN and el.

INDIA

All India Radio

7145 0123 AIR: NEPAL: IS to 0125 Nepali s/on amts (343 10/24 Kunkel)
7412 2118 AIR: EB: Indian vcl; caty on fish farming (333 10/15 Kars-
cheski-MA) @ 1535 w/tv nx; barely readable w/deep fades (242
10/28 Kunkel-CA) @ 2148 w/px of film mx w/the same w play-
back singer you always hear (333 11/3 ed.)

11880 0100 AIR: BURMESE: Hindi mx w/M Burmese tlk: 0114* (242 10/10 Kunkel)
15020 1326 AIR: (1) SINHALA: Subcontinent mx vcs/M ancr; @ 1330 M ID/nx;
weak/fluttery (322 10/30 Cichorek-NJ) @ 1411 w/tlv abt GDR;
1415-1440 film mx; then M "Yeh All India Radio" and Indian
items (333 11/10 ed.)

15365 1151 AIR: THAI: Subcontinent vcs; @ 1159 "Thinh All India R."/
closing amnt; 1200* (433 11/9 ed.)

INDONESIA

Radio Republik Indonesia

3231.8 1430 HRI BUKITTINGI: IN: M speech: //3215 (253 10/28 Kunkel-CA)
3265 1435 HRIGORONTALO: IN: M speech: //3215 (255 10/28 Kunkel-CA)
3306 1458 HRI DILI: IN: Indo vcl; into HRI nx @ 1500 (333 10/14
Plimblet-AB)
4003 1307 HRI ADANG: IN: HRI nx to 1310; lol ID (433 10/15 Plimblett)
4607 1520 (T)HRI SERUI: IN: M tlk; Indo mx (232 10/4 Plimblet-AB)
4875 1050 HRI SORONG: IN: Lol vcl; @ 1100 SCI/ID; then nx to 1106;
better reception the following 2 days (252 10/3 D'Angelio-PA)

IRAN

VOIRI logged on 9022 in EE by Bevens-MA and Willers-SW, and in Farsi
by Cichorek-NJ; on 15084 in Farsi by Cichorek-MA and Wright-NF.

IRAQ

R. Baghdad logged on 13660 in EE by Berri-CA, Fraser-MA, Robinson-
TN and Wright-NF; on 13680 in AA by Kunkel-CA; on 15130 in AA by ed.

ISRAEL

Kol Israel

11605 2240 KI: EE: ID; tlk abt rpts of Israel-Safr missile cooperation
(333 10/29 Brown-IL) @ 0500 w/nx of firefighters' strike
(433 10/11 Pichler-WI) @ 1919 in HR w/tlk abt Yom Klippur
(443 10/9 Rogers-MA) (also logged in EE by Cichorek-NJ and
Bevens-MA)

12077 0000 KI: EE: Nx (433 10/20 Bishop-NY) (More details, please. -ed.)
15640 2009 KI: EE: Syrian pilot flies MIG into Israel (555 10/13 Robin-
son-TN) @ same time w/interview w/professor (555 10/14 Bevens)
21780 1120 KI: EE: Tlk on creation story; ID: PSA to eat granola (]); nx
briefs/wx; into FF @ 1130 (fr-ed 10/27 Familiaro-JA)

JAPAN

Radio Japan

9580 1500 RJ: CC: JJ lesson; ID @ 1505; co-chan RA (333 10/31 Matsushita)
11870 0225 RJ: JJ: Classic J instrumentalis (333 10/29 Kunkel-CA)
15140 1627 RJ: JJ: 2 w tlk w/mnts Tokyo/NNK (333 10/15 Berri-CA)
17890 2328 RJ: IN: Light inst mx; @ 2330 amnt and JJ lesson; killed by RM
CC @ 2335 (333 11/9 ed.)
21610 0245 RJ: JJ: Comedy px w/live audience (433 10/16 Pichler-WI) @ 2351
In EE w/tlk abt JJ word processors (343 11/9 ed.)
KOREA, D. P. R.  
Radio Pyongyang

9325 1500 RF: Universal s/on routine; woodpecker QRM (322 10/31 Berri-CA)
9345 1037 RR: Universal Stalinist-style mx; @ 1043 "Goverit Pyongyang"
and into tk (242 11/2 ed.)
9977 1116 RF: Universal tk on reunification and patriotic vocals: ID @
1130 (343 11/2 Chichorek-NJ)
13650 2315 RP: "Pyongyang, the Capital" (343 10/15 Flynn-CA)
13675 2320 RP: SS: Nk and features to LatAm: this frq had "echoes"
(243 10/15 Flynn-CAL) (Is this a new frq? -ed.)
15115 0000 RF: Universal s/on routine w/the "kiloHeltz" lady; nx of KIS
message to Najibullah: QSB plus DW-15105 splash (333 11/6 ed.)
15160 2240 RF: KK: w tk/militant mx: sig muddled but gd for this time
of day (fair 10/2 Howell-CA)

KOREA, REPUBLIC OF  
RK logged on 9750 in EE by Carson-OK and Robinson-TN;
on 15575 by Bishop-NY, Chichorek-NJ, Thornton-NJ and Willers-SWITZERLAND.

KUWAIT  
RK logged in EE on 11665 by Chichorek-NJ; on 13610 in EE by Jones-TN,
Matsushita-JAPAN and ed.; on 15905 in AA by Willers-SWITZERLAND; on 17850 in
AA by Kunkel-CA; on 21675 in EE by Wright-NF. Note that, as of this writing
(11/15), 13610 is the only frq used for EE 1800-2100. -ed.

LEBANON  
Voice of Hope  Voice of Lebanon
6280.1 2100 VOH: EE: w/M ID's; nx--half of which was from the BBC; rlg
widity/mx (334 10/28 Willers-SW) (Steve, did you get your
recent QSL for VOH via the US address? See below.-ed.)
6549.6 0014 VOL: AA: AA tkls; nx @ 0017 (333 10/2 Karcheski-MA) @ 0055
w/MidEast mx to 0111; ad string; @ 0115 chime/ID/nx (433
10/19 Rogers-Ma) @ 2315 w/nx--mn lments Beirut; then mx w/
Taking phone calls (333 10/30 Chichorek-NJ) on 6549.3 @ 1834
in EE /"This is the VO Lebanon"; nx: AA mx (333 10/16 Willers-
SW) (Walter Karcheski notes "USPS will not deliver mail to
recent rpts have been returned." -ed.)

MALAYSIA  
Radio Television Malaysia  Voice of Malaysia
4950 1446 RTM KUCHING: EE: Business and stock market rpt (444 10/14
Pimblett-AB) @ 1455 w/interview; @ 1458 oboe/drums, then
light mx (455 10/28 Kunkel-CA) @ 1400 w/nx and police
blotter (333 10/10 Moon-CA)
5005 1449 RTM SIBU: EE: Beautiful Spac-style W: vol: 1/4895 (444 10/14
Pimblett-AB)
5030 1412 RTM KUCHING: EE: ID: pop mx: into lang (443 10/10 Moon-CA)
15295 1025 VOM: CC: IS: @ 1030 TS: ID; nx and mx (354 10/20 Car1-HI)

MARIANA ISLANDS  
KHBI
9455 0150 KHBI: EE: Test xmsn w/skel. Boston address, ID's ment test
xmns and this new callsign (ex-KOI) (fr-gl 11/3 Famularo)
15115 1145 KHBI: EE: "Letterbox": World Christian Monitor sked; M ID and
off 1155* (444 11/6 Matsushita-JAPAN) (Check out last month's
"Continuous Tuning" for the complete KHBI sked.-ed.)

MYANMAR  
Voice of Myanmar
4725 1446 VOM: BURMESE: Vocals w/w ancr; by 1458 nearly gone; QRM'1 by
USB cotel messages (poor 10/21 Thompson-CAL) (H1, Peggy.-ed.)
5985 1430 VOM: EE: Opening anmt w/ID/freqs; into "Still Rock and Roll"
by Billy Joel (433 10/15 Pimblett-AB) (b) @ 1505 w/olites
circa 1960-1962 w/M ancr; no ID: rapid fade--gone by 1525
(455 10/28 Kunkel-CA)

NEW ZEALAND  
RNZI reported in EE on 15485 by Brown-IL and on 17705 by
Carson-OK.

(Has everyone been logging 9 Mhz RA signals for the A/O Loggings Contest?
The lucky winners will be announced next month.)
Hope I can squeeze in this SLCB sked, from the 9/89 and 11/89 "SW DX Guide" of the JSWC, kindly sent along by Yukimasa Matsushita. Tnx, OM!!

0030-0230--EE on 6005, 9720, 15425
0030-0430--Hindi/Nepali/Urdu on 7190, 11800
0230-0430--EE on 9720, 15425
0430-0630--Hindi on 7190, 11800 (SUNDAYS ONLY)
0630-0730--Hindi on 7190, 11800
0730-0830--Kannada on 7190, 11800
0830-1000--Telugu on 7190, 11800
1000-1100--Malayalam on 7190, 11800
1030-1130--EE/Sinhalese on 11835, 15120, 17850
1230-1370--EE on 6075, 9720
1300-1500--Hindi on 11895
1330-1630--Hindi on 7190, 11800
1500-1630--Hindi on 11930
1645-1745--Sinhalese on 11800
1745-1815--EE on 11800
1815-1845--Tamil on 11800

Gee, it's the end of another year! I wonder what 1990 will bring in the way of interesting DX catches? Maybe regularly decent signals from the new RNZI xmtr, maybe that private station from NZ that's been talked about, maybe a reactivate! R. Enga, maybe some new relay swaps from somewhere, maybe... You can fill in the blank, every month, right here--that's what this column is for, folks. See you next time!
AFRICA

CHAD
R Nationale: 4904.5 f/d sked like ltr w/ sticker in 55 ds for a FF rpt & 3 ircs. (Landau-NJ).

MALI
R Beijing Relay: 11715 f/d Sculpture cd w/ paper cutting in 25 ds (Landau-NJ).

NAMIBIA
RadiosWA: 3290 f/d Desert cd w/ ltr & sked in 71 ds for ms. V/S P. Schachtenschneider. (Karcheski-MA).

NIGERIA

SOUTH AFRICA

ASIA

BANGLADESH

CHINA

HONG KONG
BBC Relay: 17875 f/d pfc in 16 da after f-up for $1. Rpt sent direct to HK. (D’Angelo-PA).

JAPAN

MALAYSIA
VoM: 15295 f/d ltr w/ sked in 33 ds for ms. (George-MA).

NORTH KOREA
R Pyongyang: 11735 f/d flowers cd w/ goodies in 64 ds after 4th f-up for an irc. Rpt was mailed while in Beijing, and veri was sent to a relative in Canada. (George-MA).

SINGAPORE
BBC Relay: 11750 f/d Antenna cd in 45 ds for ms. (Card-RI).

SOUTH KOREA

SRI LANKA
SLBC: 15425 f/d station cd in 117 ds for 2 ircs. (MA-Karcheski). VoA Relay: f/d cd in 6 mo after phone call to station, which resulted in the rpt being found. (Eckert-PA).

SYRIA
R Damascus: 12085 f/d cd w/ sked & sticker in 308 ds. (Fischer-WL).

TURKEY
VoT: ??? f/d Purse cd in 45 ds. (Reeves-OR).

U.A.E.

EUROPE

AUSTRIA
RAI: 13730 f/d Vorarlberg cd w/ sked in 67 ds. (Bishop-NY).

BELGIUM

CZECHOSLOVAKIA
R Prague: 7345 f/d Castle cd in 34 ds. (Wright-NF).

GREECE
VoG: ??? f/d cd in 40 ds. (Reeves-OR).

G.D.R.

ICELAND

NETHERLANDS

NORWAY
??? f/d Ramdalshorn cd in 25 ds. (Reeves-OR).

ROMANIA
<table>
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<tr>
<th>Country</th>
<th>Frequency (kHz)</th>
<th>Station Information</th>
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<tbody>
<tr>
<td>France</td>
<td>15171</td>
<td>R/PO: 15171 f/d Shell/Logo card w/ map &amp; station list in 62 ds for a PP rpt &amp; 3 ircs. (Landau-NJ).</td>
</tr>
<tr>
<td>Guam</td>
<td>11980</td>
<td>KSDA: 11980 f/d &quot;Stickers&quot; card w/ pennants, sked &amp; info in 56 ds for ms. (Karcheski-MA). KTR: 11805 f/d Studio card w/ thank you cd in 40 ds. (Wright-NF).</td>
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<tr>
<td>Brazil</td>
<td>11745</td>
<td>RadioBras: 11745 f/d card w/ sked &amp; form in 97 ds. (Reeves-OR).</td>
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<tr>
<td>Vatican City</td>
<td>11780</td>
<td>R Vatican: 11780 f/d Palazzo Pio card in 111 ds. (Brown-IL).</td>
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<tr>
<td>U.S.S.R.</td>
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<td>Brazil</td>
<td>11730</td>
<td>WWSP: 11730 f/d University cd in 93 ds. (Brown-IL).</td>
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<tr>
<td>South America</td>
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<tr>
<td>Brazil</td>
<td>11745</td>
<td>RadioBras: 11745 f/d card w/ sked &amp; form in 97 ds. (Reeves-OR).</td>
</tr>
<tr>
<td>Vatican City</td>
<td>11780</td>
<td>R Vatican: 11780 f/d Palazzo Pio card in 111 ds. (Brown-IL).</td>
</tr>
</tbody>
</table>

AZORES / RTPH: 14410 n/d ltr in 45 ds. (Conway-UK).

BAHRAIN / ASM: 17202 f/d ltr in 10 ds. (Conway-UK).

CANADA / VCS: 12874 f/d ltr w/ pfc in 120 ds. (Conway-UK).

CAPE VERDE / D4A: 8469 f/d pfc in 35 ds for a PP rpt & ms. (George-MA).

CZECHOSLOVAKIA / OL5: 3170 f/d Observatory cd in 43 ds for ms. (MA-Karcheski).

GREAT BRITAIN / GXX41: 8170 f/d cd w/ pfc in no time at all- got during a visit to station!! V/S & tour host Larry Bennett. (UK-Conway).

MALAYSIA / 9NM22: f/d pfc in 131 ds for 2 ircs. (Conway-UK). Congrats on this one Peter!!

MEXICO / XFM: 12879.5 f/d Map cd w/ ltr in 32 ds for a SS rpt & ms. V/S Luis Guzman S. (George-MA).


NEW CALEDONIA / FMZ: 15948.5 f/d pfc w/ ltr in 32 ds for an irc. (Conway-UK).

SWITZERLAND / HEC28: 8714 f/d pfc w/ cd in 13 ds. (Conway-UK).

TURKEY / TAG: 22548 f/d ltr w/ sked in 50 ds. (Conway-UK).

U.S.A. / KB: 17007.7 f/d pfc in 60 ds for an irc. V/S B. Panchot (Conway-UK).


CLANDESTINES & PIRATES


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[Handwritten note]

Conway & Peter's Christmas special...
SOLAR FLARE
According to the HiraIso Solar-Terrestrial Research Center, Communications Laboratory, Japan, a reddish aurora was observed for about 10 minutes from Wakkanai, Hokkaido, Japan at 11:45 UTC on 21 October. This same solar disturbance blacked-out HF radio communications worldwide.
(Via Space News 300ct89)

GALILEO SUCCESSFULLY DEPLOYED
Galileo was boosted into low-earth orbit by the US Space Shuttle ATLANTIS on Wednesday, October 18, 1989 and then boosted out of Earth orbit by a solid rocket Inertial Upper Stage (IUS). The spacecraft will fly past Venus and twice by Earth, using gravity assists from the planets to pick up enough speed to reach Jupiter. Travel time from launch to Jupiter is a little more than six years.

The two-ton Galileo orbiter spacecraft carries nine scientific instruments. There are another six experiments on the probe. The probe's scientific data will be relayed to Earth by the orbiter during the 75-minute period when the probe is descending into Jupiter's atmosphere.

Galileo Mission Schedule:
- Venus Flyby (9,300 mi) Feb. 14, 1990
- Venus Data Playback October 1990
- Earth 1 Flyby (600 mi) Dec. 13, 1990
- Asteroid Gaspra Flyby (600 mi) Nov. 03, 1991
- Earth 2 Flyby (200 mi) Dec. 13, 1992
- Asteroid Ida Flyby (600 mi) Sep. 02, 1993
- Probe Release July 1995
- Jupiter Arrival (*) Dec. 07, 1995
(*) Includes lo flyby, probe entry and relay, and Jupiter orbit insertion.
(Via Space News 230ct89)

UoSAT-OSCAR 9, R.I.P.
Max White at the Royal Greenwich Observatory reports that UoSAT-OSCAR 9 (UoSAT-1) decayed on Friday 13th October at 0751.49 GMT on Orbit 44761. Two possible locations for the final decay are given by different agencies as 49.25 220.9E, or 46.45 220.0E. These locations are over the South Pacific and were probably out of range of any receiving stations. The last report of telemetry we have so far is from K9CIS at the Richmond Community College in the USA. They heard the satellite between 03:43 and 03:49 on 13th October, and reported good signal strength and nominal telemetry. Any telemetry or reports from the last 6 hours of U0-9's life would be appreciated by the UoS Command Station at the following address:
UoSAT Spacecraft Engineering Research Unit
Department of Electrical and Electronics Engineering
University of Surrey
Guildford, Surrey GU2 5XH, ENGLAND
(Via Space News 230ct89)
New Klingenstein Utility Guide

The Eighth Edition of Klingenstein's "Guide to Utility Stations" has just been released. The author once again, in his usual self-important fashion, suggests that this is the ONLY book the utility enthusiast really needs for a complete frequency reference. Of course, this is not true: No one book can possibly cover all aspects of our vast hobby. However, the book is quite accurate and is a recommended addition to any monitor's collection.

Interestingly, upon quick perusal of the new edition, I note that Herr Klingeinstein has started paying a little more attention to USAF communications, coincidental, I'm sure, to the recent release of Evans' outstanding "Aeronautical Communications Handbook." Of course, a more irrational, paranoid individual might start using words like "plagiarism" and "imitative"....

Miscellaneous Traffic

DE ROBBIE REEVES: "While listening to WWV this morning (05Nov89), I came across the following message: 'An Extra leap second will be added on WWV, WWVH and WWVB on December 31, at 2359:60 UTC, to maintain Universal Coordinated Time."

DE ANDY GORDON: "US Navy MARS emergency IMMEDIATELY swung into action right after the San Francisco earthquake on 14383.5 kHz. Net control was NNNOSAZ... This net was passing traffic in and out of the California area on USB & RTTY. I also heard amateur traffic being passed on 14288.0 kHz the next morning at 0900 UTC. Stations in Oakland and Frisco were sending death toils, etc., to net control. Also, amateurs with family in the stricken area asked locals to call their families via landline, as AT&T blocked outside calls."

NEXT MONTH: A reminder that January's issue will contain the first installment of the new "SPEEDX Master Utility List," which will cover 1600.0 to 7999.9 kHz. Also, the latest in Aeronautical loggings. Contributors should NOT limit loggings to the above areas: Send in your loggings as you always have, and let your overworked (I) editor worry about sorting everything out. Of course, if one insists on splitting up Mobile loggings into Maritime and Aero groups, or arranging Fixed loggings in frequency order, I certainly won't object!

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<td>V Marker (AGAIN?? QTH, anyone? ...and)</td>
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<td>VPS35</td>
<td>Cape D'Aguilar Radio</td>
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<td>TFC list &amp; V Marker</td>
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22330.5 CW Angola D3E81 Luanda Radio 1840 QSO and tlc. ID as D3E81/61/711 Presumed D3E81, per Klingenberg"

Other Fixed Stations

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### Maritime Mobile Stations

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Contributors, December 1989:

Rodney Alexander - Clinton, IA (R70, ICF-2010, M-6000)
Jason Berri - Torrance, CA (R-2000, ATS-803A)
Mike Bronowicz - Hewitt, NJ (DX-1000)
Norm Cadorette - MA
Peter Conway - Hastings, East Sussex, England
Bill Flynn - CA
John Gerstner - Palm Bay, FL
Andy Gordon - Manchester, CT (NRD-515)
W.E. Harland - Abingdon, Oxford, England (R71E)
W.S. Hunt - FL
Tim Johnson - Gatesburg, IL
Brian Jones - San Antonio, TX (R70, ICF-2010, ATS-803A)
??? Karcheski - MA
Dick Moon - George, South Africa
Patrick O'Connor - Hinsdale, NH (R71A)
Dale Park - Honolulu, HI (R-5000)
Neal Perdue - Madison, AL (R-4B, ICF-6800W w/mods)
Robbie Reeves - Troutdale, OR
Mike Schulsinger - Springfield, OH

Thanks to all for another great year! Best holiday wishes to all and see 'ya in 1990!

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