

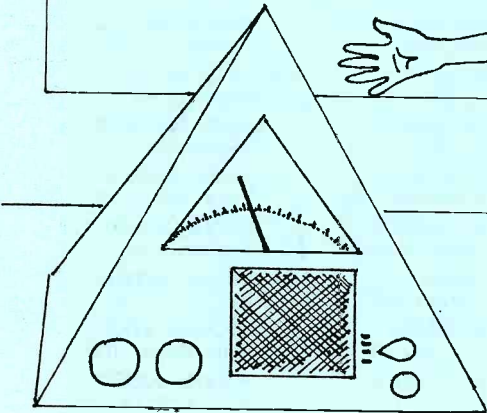
SPEEDX

SPEEDX

the dx radio magazine
for active shortwave listeners

RADIO REPAIR

I PEAKED YOUR RADIO
FOR YOU. YOU SHOULD HAVE
NO TROUBLE GETTING
EGYPT NOW.





KEYNOTES

NEED INFO OF GENERAL INTEREST, USEFUL PUBLICATIONS,
 DXing AIDS, HOBBY HINTS, WANT ADS, AND WHERE TO SEND
 FOR INFO, PLUS SHORT ITEMS WHICH WON'T FIT ELSEWHERE
 COLUMN DEADLINE: 12th of the month!

Edited by:
 KEN EATON
 6406 N. 101st St.
 Milwaukee, WI 53224
 U.S.A.

XX

LIVELY ELEVEN LEAP TO FULL MEMBERSHIP!

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CAL CRAIG Munroe Falls, OH	ROBERT HECHT Levittown, PA	KAZUHIRO SUGAI Niigata, Japan
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BRUCE WINKELMAN Tulsa, OK	ELWIN WORMWOOD Carthage, NY	

FIFTY-SEVEN MORE ON THE WAY TO THE TOP!

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SPEEDX CONGRATULATES ALL 68, BOTH GRADUATES AND NEWCOMERS!

A word to the new Full Members: We're happy that you have entered SPEEDX nirvana and have become a part of that elite group of 255 Full Members who have won their spurs. Now you may proudly display your Certificate on the wall of your Listening Post and carefully study your own copy of the full SPEEDX Constitution before election time comes around. To maintain your high estate among the world's SWL/DXers, you must continue to send in your Reports and other items of interest. That way, you help both yourself and all other SPEEDXers too! And to the new Associate Members, a hearty welcome and a bit of advice. To get the most value and enjoyment out of this organization, start working your way towards Full Membership. Send in any items of interest to your fellow SPEEDXers, and especially your loggings, QSL Reports, and Station Skeds. At the top of each column, you'll find the name and address of its Editor. All the items you submit must be in the Editor's hands by the 12th of the month. You can save a bundle if you send all your reports in one envelope to our Central Distribution Editor, Peggy Thompson, 2706 Alabama St., La Crescenta, CA 91214 to reach her by the 7th of the month. Be sure to cut all your items apart so she can send them to the appropriate Editors. So get going -- and good luck!

'THE POOP FROM GROUP' YOUR NEXT BULLETIN MAY BE DELAYED IF --

you send in your renewal late, i.e. past the 10th of the month of your last paid-for issue: Renewals are sent out to give ample time for you to renew. Also, if you send in your renewal under a different name than is on your mailing labels, such as adding a middle initial or changing "Bob" to "Robert". Remember, we are using a computer now--and it can't read your mind. If your label reads "John Smith" the computer won't know you if you send in your renewal as "John A. Smith". Doing so will cause delays in processing renewals -- as much as two weeks! Please help SPEEDX serve you. Renew on time and use the exact wording on your mailing label. If you want a name or QTH change, send a separate letter to HQ. Thanks!

MORE FROM HQ -- DON JOHNSON 'WANTS OUT', SEEKS REPLACEMENT

After sweating out the past ten years as HQ Guru, Don Johnson needs a rest and is looking for someone (preferably retired or disabled) to take over headquarters duties. The job involves some bookkeeping, letter writing, contact with the publisher, keeping membership files, and sundry kindred tasks. SPEEDX is looking for a qualified person sometime within the year, someone who has 10 to 20 hours per week available to do the job properly. This is not a job for a student or someone with a young family -- so don't apply. Any questions? Contact Don at our HQ address, or John Trautschold at P.O. Box 861, Menomonee Falls, WI 53051 (that's SPEEDX Publishing HQ).

LOOKING FOR A PEN-PAL? HERE'S ONE IN JAPAN

Perky Peggy, our scintillating CDE, passes along the word that a 32 year old man from Japan, whose hobbies are SWL and stamp collection, is looking for an overseas pen-pal so that he may learn "more about foreign people and their ways". Interested? Write to: Kiyoshi Doi, 4-4-42 Shibukawa-cho, Higashiosaka City, Osaka, 577 Japan.

R.F.I. NO LONGER PART OF RADIO FRANCE

Radio France Internationale is now an autonomous organization, having left Radio France. In addition to its popular "Paris Calling Africa" program, R.F.I. now transmits for three hours daily to Latin America in French, Portuguese and Spanish. This info was relayed by Robert Fraser, 50 Todd Rd., Cohasset, MA 02025 who also seeks a list of six or more easily read and identified on the 75 & 60 meter bands. Areas-times: Asia 1000-1300, Africa & Europe 2000-2300, Latin America 0000-0200. All times UTC.

R. NEDERLAND OFFERS RECEIVER SHOPPING LIST 'FOR FREE'

An excellent 16-page booklet, "Receiver Shopping List", comparing a number of receivers is available, just for the asking, from: R. Nederland, P. O. Box 222, 1200 JG Hilversum, Holland. It gives specs, what to look for in a rig, world-wide purchase sources, things to beware of when shopping from "discount" houses, and lots more valuable info. (D. Johnson, CA)

CANADA STOPS PUBLISHING 'IN SEARCH'

The Canadian Dept. of Communications, suffering "financial constraints", has ceased publishing its "In Search", according to John Demmitt, PA and the RCI listeners who took part in a recent survey and won subscriptions, now seem to be "up the creek without a paddle". Better luck next time!

PLANS FINALIZED, INVITATIONS EXTENDED FOR ANARC '83

The Washington Area DX Assn. will host the ANARC '83 Convention at the Westpark Hotel in Rosslyn, VA -- just across the Potomac from Washington. This is a great opportunity for SPEEDXers whose spouses aren't into our hobby to enjoy a family vacation July 15-17 in the shadow of the Nation's Capitol. You can take part in the Convention while your family fills its day with sightseeing. One of the highlights of ANARC '83, from SPEEDX point of view, will be the participation of SPEEDX President, John Trautschold, in one of the six scheduled Seminars.

Friday the 15th will be the time to visit the equipment and club exhibits and displays, attend the Official Convention Opening, and enjoy the Wine and Cheese Reception. Saturday will be a day of listening and learning as ANARC '83 offers six Seminars geared to the varied interests of SPEEDXers, including concurrent sessions on LW/MW, PSB/UTE, FM/TV, and SW, and the Broadcasters Forum where you'll have the chance to question broadcasters about their stations and programs. The day winds up with the Banquet and the Presentation of ANARC Awards. Sunday, the final day, begins with the ANARC Annual General Meeting, goes on with the Presentation of HAP Awards and the exciting HAP Auction, and concludes with the Closing Ceremonies. The Convention Fee of \$30.00 per person covers all convention activities, including the Banquet -- in today's economy, that's a real bargain!

For complete information and a Registration Form, write to WADXA, at 606 Forest Glen, Silver Spring, MD 20901. Tell 'em SPEEDX sent you!

RADIO NETHERLAND TO MARK 55 YEARS ON APR. 30

R.N. will operate special amateur stations from Hilversum for 24 hours starting at 0600 UTC on Apr. 30. Licensed hams are invited to call the stations and chat with staff members. For listeners, a special QSL Card will be issued. ENA will be targeted at 0248 on 9590 and 6165 kHz, and WNA at 0548 on 9715 and 6165 kHz. If you're in other target areas for the EE broadcasts, write for complete sked to R.N., address on page 3. Further details will be aired on their "Media Network" programs.

'SPEEDXGRAM' OFFERS YOU MID-MONTH 'HOT TIPS'

If you subscribe to SPEEDXGRAM, you knew by mid-March that Falklands Island International Broadcasting Station was running 3.5 kW instead of the listed 500 watts and that it's easily heard in CA on 3958 kHz at UTC 0900. If not, you'd better subscribe now. If you're in NA, just make out your check for US\$4.00 to Bob Bodell and send it to him at 9118 S.E. Mason Hill Dr., Portland, OR 97222 USA. If you're overseas, make that for US\$6.00 or 30 IRCs and he'll send it to you via Air Mail. That's for a year!

SPECIAL QSL TO COMMEMORATE 1984 WORLDS FAIR

WRNO is offering a New Orleans Worlds Fair QSL for comments and suggestions on how to make that Fair the best ever. (Of course you have to include a reception report!) Send the whole works to: Peter Spurner, Vice Pres., Worlds Fair, Suite 339 Int'l. Trade Mart, New Orleans, LA 70130. In the States, include an SASE; outside, include an SASE and 2 IRCs. Credit Thompson, CA for that bit of news.

KYOI PUMPS 'HEAVY ROCK' INTO JAPAN

Jerry Blake, IN, sends along a letter from a Japanese friend telling of KYOI's "air invasion" of Japan. Now there's a columnender! 73,

OFFICIAL SPEEDX FULL MEMBER ROSTER

ADDISON, Joe	KS	HALBERT, Dan	CA	PFEEFFER, Morris	NY
AKED, R.	FRANCE	HAMER, Michael	MN	PHILIP, Joyce	BC
ALEXANDER, Brian	PA	HANSEN, Chris	NY	PICARELLI, Thomas	CA
ALEXANDER, Rodney	IA	HARDESTER, Michael	NC	PICKARD, Wildger	IL
ALEXANDER, Samuel	NC	HARREL, Richard	IL	PIMBLETT, Nigel	ALB
ANDREWS, James	LA	HARRINGTON, Rob	CO	POKATILOFF, Ronald	IL
ANNIS, William	IN	HARVEY, Sheldon	QUE	POTORTI, Bill	NY
AUDEPTE, David	MA	HECHT, Robert	PA	PRESTON, William	CA
AVERILL, Elizabeth	MA	HELLER, Brian	WA	PROVANCE, William	CA
BARTSCH, Eric	MN	HENSLEY, Wayne	TX	PRINGLE, Charles	CO
BAXTER, Kirk	KS	HESCH, Ruth	NY	RADTKE, Carl	CA
BEAL, Hobart	WA	HILL, Elaine	SC	RANKIN, Robert	KS
BEEAMAN, William	MI	HILL, Norman	VA	RAY, Richard	PA
BELLARD, Warren	OH	HOLBROOK, Hank	MD	RAYMOND, Bob	MA
BERKHOLTZ, Nicholas	MN	HOSMER, Donald	MI	RAYMOND, Greg	MA

BERRI, Jason	CA	HOTALING, Stan	NV	REESE, Orla	KS
BLACK, Donald	MA	HOWARD, Ron	CA	REINECKER, Robert	PA
BLAIZE, 'Sandy'	LA	HOWARTH, Chester	WA	ROBICHAUD, Ivan	NB
BLAKE, Jerry	IN	HUFFAKER, Carl	MEX	ROBINSON, Michael	AUS
BODELL, Robert	OR	JAMIESON, Jamie	CA	ROSS, Robert	ONT
BOEHM, James	TX	JOHNSON, DON C.	CA	RUCKMAN, Robert	OH
BOONE, John	TX	JOHNSON, Fred	IL	SABLE, Thomas	NY
BROWN, Clif	IL	JOHNSON, Howard	TX	SANDERSON, John	AZ
BÜRKE, Lynn	VA	JOHNSON, Mark	ID	SAUNDERS, Donald	NJ
BUTTERFIELD, Bob	NJ	JONES, Jack	MS	SCHLESINGER, Mark	TX
BYRON, Leslie	PA	KANON, Lee	NY	SCHROEDER, Art	WI
CADY, George	IL	KANOPKA, Leon	NY	SCHULSINGER, Michael	OH
CARD, Peter	RI	KAPINOS, John	MA	SCOTT, Thomas	OK
CARLSON, Roy	CA	KASPRYZK, Emil	TX	SEITNER, Allen	VA
CARLSON, Virgil	WA	KERRIGAN, Patrick	IL	SEYMOUR, Woody	NC
CASAVANT, Richard	QUE	KIVELL, Bob	NM	SHAMBLIN, Bill	CA
CEREGHIN, John	MD	KLASEK, Terry	MO	SHARP, David	FL
CHABAK, Michael	AZ	KOBYLSKI, Tony	MD	SHEPHERD, Greg	IL
CHINSKY, Mark	NY	KOEHLER, Wayne	IL	SHERWOOD, Linda	MA
CLAYTON, David	MI	KONEN, Mark	WI	SHREEDHAR, R.	INDIA
CLEVELAND, Bill	WA	KORNEK, Joachim	FRG	SIENIKI, Steven	NJ
COHEN, Larry	PA	KOUKOL, Mark	IL	SMITH, Thomas	FL
CONNELL, Charles	CA	KROLAK, Eugene	MI	SNYDER, Doug	CA
COLEMAN, Robert J.	MA	KRIST, Kraig	VA	SMITH, Traver	XA
CONWAY, Peter	UK	LANGLOIS, Harold	GA	SNYDER, Scott	NY
COOK, David	CA	LATKO, Jay	AZ	SOMERS, Jack	CA
COSTIN, Steve	AUS	LAZARUS, Henry	LA	SPARKS, William	CA
COX, Frank	LA	LEARY, Robert	OH	SPEER, Richard	CA
CRABLE, Vera M.	ID	LEEMAN, Joseph	RI	STARK, Chris	NB
CRAIG, Cal	OH	LEITE, Steve	MA	STEIN, Richard	NJ
CREAMER, John	CO	LEONARD, Michael	ME	STEPHANY, Nolan	NY
CUCURA, Vladimir	PA	LEVIN, J.	NJ	STEPHENSON, Norman	CA
CUNNINGHAM, Larry	OH	LEVYA, James	MS	STOCK, Leonard	CO
CUPPY, Brad	IN	LEWALLYN, Robert	GA	STONE, Wilfred	ONT
CURTIS, Robert	VT	LINDLEY, Terry	AL	STREETER, Robert	NY
DAMPIER, Phillip	NY	LOBDELL, Chris	MA	SUGAI, Kazuhiro	JAP
D'ANGELO, Richard	PA	LORD, Earle	CA	TALBOT, Larry	WI
DAVIDSON, Kevin	SC	LUCAS, Richard	CA	TANAKA, Masahilo	JAP
DE KIEWIT, Rob	HOLLAND	MANNING, Sandra	TX	TATE, Harold	WV
DEMMITT, John	PA	MARIN, James	FL	TAYLOR, John	MO
DROLLINGER, Rick	WI	MARSHALL, Ron	AZ	TAYLOR, Lyle	AZ
DUGUAY, Rick	MA	MAXFIELD, David	MI	TEDFORD, Nan/Jim	MI
DUNCAN, Gregory	NC	MAYO, Paul	NY	THOMPSON, Glenn	NM
DUNHAM, William	LA	McCANTS, Donald	AL	THOMPSON, Peggy	CA
EATON, Ken	WI	McCurdy, Tim	CA	THORNE, Dave	CA
EVANS, James	TN	McKINNEY, Larry	PA	Trautschold, John	WI
FAMULARO, Ralph	NJ	McLAIN, Lois	CA	ULMER, Douglas	LA
FARMER, R.W.	TN	MESSINEO, Chris	MA	VALENTINE, Fred	CA
FISHER, John	MA	MILLER, John	GA	VAN HORN, Gayle/Larry	TX
FLANAGAN, JohnR.	MA	MILLER, William	CA	VENCKUS, L.V.	IL
FLICK, Bob	MA	MOMAN, Don	ALB	VOCKROTH, John	NJ
FORBES, Lewis	TX	MOORE, Alexander	UK	WARD, henry	QUE
FORRESTER, Phillip	SC	MOORE, Michael	TX	WARRENBURG, Tom	WI
FORTMAN, Joseph	IL	MOSS, Randy	CA	WELCH, Frank	MA
FRASER, Robert	MA	MOUNTAIN, Gerald	BC	WHITEHEAD, Jim	MA
GALLAGHER, Raymond	MA	MUNSTER, Ralf	GA	WICKS, Craig	MI
GARMS, James	AZ	MURFF, Nathan	NM	WIEBOLDT, Bonnie	FL
GARRETT, Larry	CA	MUZYKA, William	NY	WILCZEK, Bob	IL
GAVARAS, Tom	MN	NEAL, Sam	TX	WILFINGER, William	OH
GEORGE, Charles	TX	NIKOLICH, Mike	IL	WILKINS, John	CO
GETZEL, Art	NY	NORCROSS, David	CA	WILKNER, Robert	FL
GILSTER, Paul	NC	OLSON, Carl	MD	WILLIAMS, John	MN
GONZALEZ, Fernando	NY	O'RIORDON, Hugh	ID	WILSON, David	PA
GREENBAUER, Daniel	AZ	OSTERMAN, Fred	OH	WIMMERS, Bernard	VA
GREENWALD, Jeff	WY	PAGANO, Frank	DC	WINKELMAN, Bruce	OK
GRENIER, Pete	CA	PALMER, Bob	WA	WITTE, Marjorie	CA
GRIJALVA, Gabriel	AZ	PARKS, William	FL	WORKWOOD, Elwin	NY
GRISHIN, Ivan	QUE	PEARSON, William	PA	YAJKO, Robert	PA
GROSVENOR, Norman	CA	PETERSON, Roger	CT	ZILMER, Bob	NM
HAHN, Jeffrey	CA	PETTENGILL, Roger	ME	ZOLLA, Richard	CA

PROGRAM

APRIL 1983

WOODY SEYMOUR, JR.
P. O. BOX 848
SANFORD, NC 27330

PANORAMA

FROM THE EDITOR'S DESK...It was good to hear from Bill Flynn on St. Patrick's Day. Bill, one of the founders of SPEEDX, still participates in the hobby from his home in Fremont, CA.....Thanks to Morris Pfeffer for his contribution of a Radio Sofia, Bulgaria schedule. He was not listed among the credits last month when the schedule was presented in the column.....Radio Sweden International's SWEDEN CALLING DXERS celebrated its 35th anniversary on February 28. Congratulations to SCDX, the longest-running DX program still on the air.....Any SPEEDXer who has a copy of Popular Communications magazine for December 1982 is asked to contact your editor at the address listed above. Your help will be appreciated. (WS)

AUSTRALIA...Radio Australia continues to prepare some of the finest program schedules in shortwave radio. Their latest offering is a full cover poster featuring a montage of photos from their new studio complex, Radio Australia Centre, on one side and program/frequency information on the other side. Send for your free copy to RA at G.P.O. Box 428G, Melbourne 3001.....Some of the newer programs from RA include: DUNSTAN'S DIARY, a weekly lighthearted account of the events of the past week, as seen through the eyes of Melbourne journalist Keith Dunstan. Tune in Fri 2240, Sat 0440, 1210, 1912, Sun 1540 UTC...MUSIC SHOWCASE features some of the best light music from Australia, introduced by Lawrie Bruce, and heard Sun 0030, 0630, 1330 UTC...Mon to Fri features music, entertainment and information programs. Your hosts are: 1900-2330--Rick Dowling, 2330-0400--Peter Cavanagh, 0400-0900--Rob Hoskin, 0912-1100 COUNTDOWN, with Suzanne Dowling, 1100-1500--Dick Paterson, 1500-1900 UTC--Barry Seeber. (Thanks to RA and Jerry Blake, IN)

AUSTRIA...Here's the latest English schedule from the ORF: Programs are first broadcast at 1830 UTC, then are repeated at 0130, 0330, 0430, 0830, 1030, 1230 and 1500 UTC the following UTC day. REPORT FROM AUSTRIA is heard daily, followed by a feature program, including: Sun/Mon POST BOX 700; Mon/Tue SPORTS REVIEW; Tue/Wed AUSTRIA AND THE UN; Wed/Thu THE AUSTRIAN ECONOMY; Thu/Fri POP CORNER; Fri/Sat THE WEEK IN AUSTRIA; Sat/Sun FOR TOURISTS. Also, AUSTRIAN SHORTWAVE PANORAMA can be heard Sun at 0900, 1030, 1230, 1300, 1500, 1805 UTC and Mon at 0430 UTC. AUSTRIAN MEDLEY can be heard Mon-Sat in the 1300 UTC slot. (Chris Stark, NB; John Demmitt, PA; Kraig Krist, VA)



CAMEROON...Radio Buea broadcasts in English, French and Vernaculars daily from 0430-0805 (Sun 0645) and 1630-2200 UTC on 3970 and 1100 (Sun 0645)-1630 on 6005 kHz. We have room for only a few programs, so we will list those in the 2000-2200 UTC bloc on 3970: Sun KNOW YOUR NEIGHBORS, ENGLISH NEWS, OUR CHOIRS SING, PROVINCIAL NEWS, FRENCH NEWS; Mon VERNACULAR BROADCAST, NEWS IN ENGLISH, HEALTH PROGRAM, PROVINCIAL NEWS, MUSIC ON RECORDS, NEWS IN FRENCH; Tue VIVE LE SPORT, VERNACULAR BROADCAST, NEWS IN ENGLISH, TOURIST GUIDE, PROVINCIAL NEWS, MIXED MUSIC, NEWS IN FRENCH; Wed VERNACULAR BROADCAST, NEWS IN ENGLISH, DAYS OF OUR LIFE, MUSIC, PROVINCIAL NEWS, MUSIC, NEWS IN FRENCH; Thu VERNACULAR BROADCAST, NEWS IN ENGLISH, EVERY MAN, PROVINCIAL NEWS, TOURIST GUIDE, NEWS IN FRENCH; Fri VERNACULAR BROADCAST, NEWS IN ENGLISH, HIGHLIFE HITS, PROVINCIAL NEWS, VARIETY MUSIC, NEWS IN FRENCH; Sat VERNACULAR BROADCAST, NEWS IN ENGLISH, RECEPTION REPORTS, PROVINCIAL NEWS, MUSIC, NEWS IN FRENCH. (Thanks to Phillip Dampier of NY for this schedule.)

LET'S SPRING INTO PAGE 2 of PROGRAM PANORAMA!!!

NETHERLANDS...Radio Netherlands is marking 55 years since regular broadcasts began from the Netherlands in this World Communications Year of 1983. In honor of the event, the English language program from RN on April 30 will focus on World Communications Year. Also, RN is planning to operate a special amateur radio station from its studios in Hilversum for 24 hours beginning at 0600 UTC on April 30. (Sweden Calling DXers, #1728) Their call letters will be PA6 PCJ. Frequencies in use will be 21400, 14240, 7055 and 3790 kHz (they will be using 4 transmitters). The programs will discuss what listeners can do to help with WCY '83 and live relays of the amateur contacts will be presented. Even if you aren't a radio amateur, a QSL will be offered for reports on the broadcasts. Tune in to MEDIA NETWORK on Thursdays for further information. (Thanks to Redd Ryeder, FL)

NETHERLANDS ANTILLES...Trans World Radio, Bonaire has a new program Sunday mornings from 1300-1345 UTC on 11815 kHz. SUNDAY MORNING SERVICE features Bible teaching and a sermon. (Donald McCants, AL)

SAIPAN..."SUPER ROCK KYOI" broadcasts rock music to Japan 24 hours per day. Station identifications and song announcements are in English, while advertisements and some station identifications are in Japanese. The current schedule is: 1600-2200 UTC on 9670, 2200-0300 UTC on 15405, 0300-0900 on 15190 and 0900-1600 on 11900 kHz. A transmitter pause occurs every other Monday between 0100 and 0500 UTC for maintenance and adjustment. (Hinomasa Sato, Japan) The station has been best heard here in North Carolina between 1300 and 1500 UTC on 11900, though Radio Beijing has caused some cochannel problems since the first of March. (WS)

UNITED KINGDOM...Gloria Hunniford, Radio Personality of 1982 in Britain, returns to BBC World Service to host ALBUM TIME. The program can be heard Sat 0630, 1930, Fri 0945 UTC.....PORTRAITS OF OUR TIME looks at Yuri Andropov(USSR), P.W. Botha(South Africa), Francois Mitterrand(France), Lee Kuan Yew(Singapore) and Javier Perez de Cuellar (Peru, UN) on Mon 0145, 0545, Thu 0945, Fri 2145 UTC.....RIVERS OF THE WORLD is a new series which can be heard Mon 0315, 1415, Tue 1015, 2030 UTC.....ALL GAS AND GAITERS, a series of clerical comedy, returns on Wed 0830, 1430, Thu 0045, 1030 UTC.....OUTLOOK visits New York in mid-April for a special program on the major British arts festival in the Big Apple called "Britain Salutes New York". Tune in to the program for further details on this special edition, Mon-Fri 1515, 1900, Tue-Sat 0115.....CLASSIC ALBUMS is a new series which looks at a best-selling LP "of note" each week on Sat 0430, Mon 1115, Tue 2315 UTC. Albums this month are by Elton John, Stevie Wonder, Steely Dan, Van Morrison and Carole King.....Tony Myatt replaces Sandi Jones on the REQUEST SHOW, heard Sun 1345 UTC. (London Calling, 4/83)

USSR...Radio Kiev broadcasts in English to Europe from 2000-2029 UTC and to North America 0030-0059 and 0300-0329 UTC. Programs are as follows(note that the programs for North America are listed for the days of the week in local time, NOT UTC): NEWS(daily), COMMENTARY(daily except Sat), then Mon LET'S DISCUSS IT Tue UKRAINIAN PANORAMA Wed TOPICAL REPORT and DX CLUB Thu YOUTH PROGRAM Fri UKRAINIAN PANORAMA Sat RADIO KIEV MAILBAG Sun MUSIC FROM UKRAINE. (Kraig Krist, VA; Chris Stark, NB)

USA...WINB broadcasts to South America daily from 2347-0330 UTC on 15145 kHz. The program begins with MUSIC to 0000 UTC, then: Mon-Fri (UTC day) 0000 THRU THE BIBLE(Port.) 0030 MUSIC 0100 VARIOUS PROGRAMS 0130 MUSIC 0200 MORNING SUNSHINE 0230 THRU THE BIBLE(Spanish) 0300 MUSIC; Sat 0000 MUSIC 0015 CORAL RIDGE PULPIT 0045 GOD'S NEWS BEHIND THE NEWS 0100 CURTIS SPRINGER 0130 MUSIC 0245 HOLY GHOST REVIVAL TIME 0300 FAITH MISSIONS; Sun 0000 CHAPEL ECHOES 0030 FAITH MISSIONS 0100 COMMUNITY OF JESUS 0130 BRETHREN HOUR 0200 THE WHOLE TRUTH 0300 MUSIC. (Donald McCants, AL; Marge Witte, CA; Chris Stark, NB)...WRNO broadcasts the R.C. SPOUL STUDY HOUR Sun 1230 UTC on 9715 kHz. (Don McCants, AL)...next month, AFRTS. Until then, Good listening! WS (3/83)

winb



TECHNICAL TOPICS

Editor

SANDY BLAIZE

AVC	SSB
AGC	LSB
GAIN	FADE
TUNER	NOISE
IMAGE	Smeter

Send Technical Questions & Technical Material To: ➡

E. V. "SANDY" BLAIZE
417 RIDGEWOOD DRIVE
METAIRIE LA 70001

NEW UTE LISTENER BOOKS: Two new station lists are now available from : Universal Amateur Radio Inc., 1280 Aida Dr., Columbus, Ohio, 43068. One, titled: "General Frequency and CALL SIGN List" has more than 8000 frequencies in the range of 3 to 30 Mhz. listed. The book covers all types of utility stations, except RTTY (radioteletype) stations in frequency order. Frequency, call sign, name of station, ITU country symbol, and modulation type. Also there is a cross-reference in the rear of the book listed in call sign order. This alphabetical listing has more than 4000 call signs listed. Abbreviations commonly used are also listed. One very unique feature of this book is that there is published therein the new Aeronautical mobile service frequency plan. Price of this book: \$12.00. The second publication is a companion to the first entitled: "Radioteletype Press Broadcasts, Time Order List/Agency Schedules". It consists of two parts. The first is listed in "time" order (GMT) for every half hour of the day. This giving the agency "symbol" (such as "AP" for Associated Press etc) and the frequencies/times that their transmissions are broadcast. The second half of the book lists the agencies in alphabetical order, giving addresses, schedules and sometimes a "thumbnail" sketch of the agency. A very helpful aid in finding out where all those "news" stations are! The only thing omitted from this book was the nominal speed in BAUD and frequency shift commonly used by each station, however this can be found out easily by experimentation whilst listening.

Both books were published in February of 1983, so the data should be late. (Thanks to Fred Osterman for this information!)

UNIVERSAL AMATEUR RADIO INC.: While listing their books above, we might add that Universal handles all types of shortwave receivers as well as "ham" gear. Among them, the JRC NRD-515 receiver. When you are shopping for a new rig, be sure to consider them for your needs. SPEEDXer Fred Osterman, (N8EKU), works there and will try and give you a good deal. Write to him at the address above or phone 614-866-HAMS for more information and price quotes.

RTTY AND THE ZX-81 COMPUTER: As promised earlier, the RTTY Interface unit for the Sinclair ZX-81/Timex-Sinclair TS-1000 is presently under development. The First prototype is alive and working. The second prototype will be working by the time you read this column. Final form has not been decided upon, but will probably be a "plug-in" unit similar to the CW interface unit that is being marketed by Cliff Nunery, NU4V. This may become a "two board" interface unit, the UART board and tone decoder board being separate PCB's "piggyback" with each other. Various options will exist so that you will be able to receive BAUDOT or ASCII from 45 to 300 Baud. Also other options will be receive only package or transmit and receive package for the "ham" rig. More details next issue. Availability and prices will be announced as soon as possible.

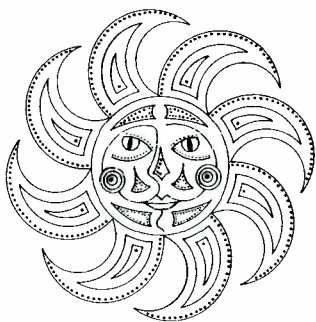
Ultimate plans call for the development of an interface and software to receive "SITOR"/ARG/TOR/AMTOR broadcasts as well as its associated FEC RTTY system used by nearly all Maritime Coastal stations and coming into use in the Amateur Radio Service.

Prices on the RTTY interfaces not yet decided upon, but will be under \$100 in all probability, including the terminal unit or tone decoder section.

COMMENT: Many thanks to those of you who have written this past month. Due to work and various other problems I am having at the moment, I may owe some of you a letter. Please write again if I have not answered you and you wrote a month or more ago. Also, I am looking for a "Co-Editor" for this column. If you feel you want to write this column on a fill-in basis and that you have the technical ability to do so, please contact the Editor at the address above. All the best for April and good DXing to all!

73,

"Sandy" _____



SPEEDX Western Hemisphere

STILL?? **EDITOR: Chris Hansen**

P.O. BOX 1226
NEW YORK, NY 10159

PHONE: 212/549-6613 WEEKDAYS 2230-0430
WEEKENDS ANY DECENT TIME

Deadline: 12th

All times and dates UTC, All fqys in kHz

/ APRIL 1983 /

SOME OF YOU MORE SENIOR SPEEDXERS will remember the month that Mickey Mouse appeared on our cover to "honor" the extremely poor job that a printer had made of the previous month. I would like to award the Second Decennial Disservice to SPEEDX award to....

THE U.S. POSTAL SERVICE

for futzing up above and beyond the call of duty last month. I sent my column off on the 22nd of February Special Delivery from Madison Square Station first thing. It took one week to arrive at Menomonee Falls, where an extremely worried John Trautschold was waiting for it. I hope that will not happen again.

GOOD NEWS!!! Since I have been editing so long I can't get the roar of the presses or the smell of the printers' ink out of my nose, I have decided that, beginning a couple of months after I hand over W/H to new hands, I will coordinate a page or so of "Q & A" in Tips And Topics, at the gracious invitation of Art Getzel. There will be no question too abstruse for me to wrestle with, and also no set deadlines. We are thinking about a bi-monthly page or so. You may begin sending in your questions to me at the above address. The feature is not designed to give reader-specific information on choosing a receiver or antenna, however, so keep your questions general. (Pssst. If I find I can't answer a question, famed experts in the DX field have agreed to help me out anonymously. Sigh!)

CID RADIO BROADCASTING NETWORK -- Those of you who read the New York Times on Sunday, 3/13, will have noticed on the back page of "The Week In Review" section a full-page ad run by "Cuba Independiente y Democratica," detailing their broadcasting strategy to Cuba and asking for donations to finance the broadcasts to Cuba. It is too long to print here, but includes a brief history of the movement and its founder, Huber Matos. Their aim is to "broadcast from ten radio stations with a total effective power of 2 megawatts. Cost of this project is 3.5 million dollars for equipment and installation; the yearly operational expenses are \$750,000." However, to the DXer, the best part of the page was the schedule of the "CID Radio Broadcasting Network," detailed below:

RADIO STATIONS	FQY.	TIME SCHEDULE
Máximo Gómez	11700	1630-0030 GMT
Antonio Guiteras*	7352	0030-0330 GMT
José A. Echeverría	7465	0100-0130 GMT
Antonio Maceo	4980	0100-0135 GMT
Ignacio Agramonte*	5105	0030-0330 GMT

*These radio stations also broadcast from 1100-1200 GMT. All radio stations operate from outside the territory of the United States.

There are several addresses given:

- CID MIAMI OFFICE, 10020 SW 37th Terrace, Miami, FL 33165
- CID WASHINGTON OFFICE, 927 15th Street, NW, Suite 903-5, Washington, DC 20005
- CID CHICAGO OFFICE, P.O. Box 60226, Chicago, IL 60626.

If you're looking for a QSL, try the Miami office first, since that's where Señor Matos hangs out, and is likely to be the general HQ of the whole operation. Try the DC office next, and the IL office last, as that's the money office -- they aren't as likely to be able to QSL.

I HAVE THE FLU. A word of advice -- don't get this year's version of the flu -- it's deadly. I'll need a lung, throat, and sinus transplant to fully recover, I think.

And now, remembering that any logging without a language specified was reported as being in Spanish (or Portuguese for a Brazilian logging), I present....

SOUTH AMERICA

ARGENTINA

- 5882 0300 R. Rivadavia, LA m mx, ID (353; 2/13. Robichaud, NB)(0052; 323; 2/27. Berri, CA) (0130; on recent RAE px they said that this is not a SWBC station, it's some sort of feeder; 333; 1/13. Moshier, CA)(Thanks for pointing this out, Mr. Moshier ch)
- 11710 0110 RAE, EE, Argentine Jazz (544; 2/19. Gunter, NC)(0112; 0130*; 234; 2/20. Ray Black, MN)(Forbes, Harris, Wood, Somers, Hill, Cox, Norman, Robichaud, Wettersten, /
- 15290 0025 R. El Mundo, mx to full ID by YL @0030, into Hallelujah Chorus, church bells, and talk (323; 2/10. Harvey, PQ)
- 15345 0100 RAE, EE, nx, special features (423; 3/4. Weikel, MI)(*0100, ancr. commented that since 9690 dropped, 11710 seems to be most popular fcy of 15345/11710/6060; 433; 2/10. Hosmer, MI)(0100;555;2/8.Cord,RI)(0115;343;2/16.Thunberg,PA)(*0230; 343;2/24.Krist,VA;0259*)(0255; 322; 2/10. Carlson, WA)

BOLIVIA

- 4696 0257 R. Riberalta, never heard here before; came through at easy level tonight; generally non-Andean LA m mx, TCs about 4 mins. fast, ID: "CP117, R. Riberalta," fcy as "4775 kHz ondas tropicales, 0403* (433; 2/5. Cunningham, OH)(0344; 0358*; 222; 2/12. Streeter, NY)
- 4886? 2355 R. Santa Ana de Yacuma, OM/YL w/ local nx, ID by OM @0000, some splatter but pretty good signal (gd; 2/5. Parks, FL)(Has anyone else heard this???? ch)
- 5974 1006 R. Nac. Cochabamba, OM tlk w/ many recorded anmts and brief bits of mx, several ments. of "R. Nacional." Severe het after 1030 (232; 2/12. Streeter, NY)
- 6025 0050 R. Illimaní, OM, variety of Bolivian mx, ID, TCs (322; 2/18. Hotaling, NV)

BRAZIL

- 4755 0500 UNID, heard testing with a high power signal. Continuous miserable hard rock mx most of the time. Only 2 anmts hrd in over 1 hr of listening. At 0530 and 0605 a recorded ID that was completely unreadable due to poor reproduction, however, "Brazil" was readable as the location (2/12. Sparks, CA)
- 4765t 0844 R. Emisora Rural, chatter by OM w/ occasional breaks for pops. Increasing QRM from RNacional (443; 2/22. Schlesinger, TX)(0326; 233; 2/20. Drollinger, WI)
- 4785 0757 R. Ribamar, lively mx, OM w/ ID @0802, followed by continuation of mx px w/ lots of tlk between songs (232; 2/12. Streeter, NY)
- 4796.5 0425 R. Tabaraja (tent.), OM w/ px of Brazilian pop mx, occasional recorded anmts, including prob. ID @0432, lost shortly after 0445 (232; 3/9. Streeter, NY)(I think Aquidauana is also possible here. More monitoring is indicated. ch)
- 4805 2315 R.dif. de Amazonas, EZL Brazilian pops hosted by OM DJ. Full ID @2329 by OM (fr; 2/19. Parks, FL)
- 4815 0329 R. Nac. de Tabatinga, OM ballad, followed by ID, fqys, and mention of "Radio Bras." Then continuous mx to OM anmt @0402 and 0404* (232; 2/7. Streeter, NY) (1030; 322; 2/17. Schlesinger, TX)
- 4875 0100 R. Jornal do Brasil, nx, ID @0105 w/ ads (fr; 2/7. Parks, FL)
- 4915 0903 R. Anhanguera, conversation by 2 OMs, songs by male vocal group (444; 2/20. Pimblett, AB)(0258; 343; 2/5. Ray, PA)
- 4955 0140 R. Marajoara, anmt for carnaval, mx, ID @0146, some more carnival mx (453; 2/15. Robichaud, NB)(0314; ments. of Super Marajoara," 333; 2/14. Streeter, NY)
- 5025 0210 R. Borborema, OM w/ px of Brazilian pop mx, frequent IDs and promos (343; 3/8. Streeter, NY)(2320; fr/pr; 2/25. Parks, FL)(0235;433;2/7.Harvey,PQ) AB)
- 5027t 0850 R. Jornal Transamazonica, lots of ads, tlk, bit of mx (333; 2/20. Pimblett, 6125 2320 R. Globo, political speech by the President of Brazil, mx interlude, full ID by OM @2326 (fr; 2/28. Parks, FL)
- 9675 0815 R. Marumby, OM w/ nx and occasional IDs, full ID @0830, foll'ld by px "Musical Evangelico." (353; 2/12. Streeter, NY)
- 9695 1135 R. Rio Mar, wild morning-type show, short mx selections, good in AM (333; 2/7. Cereghin, MD)
- 9705 0230 R. Nacional, Rio de Janeiro, OM w/ station promo. Carnival coverage. Badly QRMed and almost f/out by 0237 (222; 2/7. Palmer, WA)
- 11780 1001 R. Nacional da Amazonia, 2 OMs alternate slogans in echo, more RBras IDs than RN, couldn't stand if it were EE (332; 2/10. Lucas, CA)(0145;444;2/16.Valentine,CA) (1104;444;2/13.Miller,CA)(0001;443;2/26.Moore,TX)(1205;222;2/20.Ray,PA)
- 11805 2249 R. Globo, sx w/ 2 OMs, occasional ad breaks, no formal ID at hour, but IDs at other times. (434; 2/19. Schlesinger, TX)
- 11875t 2130 R. Sociedade Bahia, tlk show run by deep-voiced OM. Terrible power line static, and lots of het too (332; 2/12. Schlesinger, TX) Harvey, PQ)
- 11915 2340 R. Gaucha, nx by OM, ad w/ Lone Ranger theme @2342; ID @2347 (322; 2/10. /
- 11935 2330 R. Clube Paranaense, ID, tlk by OM, ment. of R. Clube, poor mod (222; 2/10. Harvey, PQ)
- 15190 0C50 R. Inconfidência, OM/YL tlk w/ ID (433; 2/12. Worob, TX)(0135;354;2/10. Robichaud, NB)(0035;434;2/10.Harvey,PQ)
- 15290 0C11 R. Nacional, EE, nx, features, debureaucratization (It'll never work, ch) (---; 3/3. Weikel, MI)(S111, MA -- John, you might be interested to know that I was born in Marblehead, right next to you, and my family still lives there. ch)

B R A Z I L / -- (continued)

15290 0212 R. Nacional, (Hesch, NY; JPT, AK; Cord, RI; Forbes, TX; Wood, LA; Sharpe, ?; Langlois, GA; Harris, OH; Sanderson, AZ; Krist, VA)
 15415 2350 R. Clube Ribeirao Preto, ID, into talk over mx (323; 1/29. Harvey, PQ)
 15445 0024 R. Nacional, LAM disco, conversation, calypso (434; 2/18. Lord, CA)
 17830 0200 R. Nacional, EE, economic moves made to conform to World Bank rules, video games in Brazil, // 15290 (444; 2/27. Wettersten, OH)(*0200, 0300*; 222; 2/28. Cox, CA)(0250;544;2/27.Tilley,CO)(Famularo, NJ; Harrell, IL; Addison, KS; Alexander, Palmer, WA)^{NC}

C H I L E /

9510 0300 R. Nacional de Chile, ID @0302, s/off anmts and various ISes (433; 2/8. /
 15120 0105 R. Nacional de Chile, 2 OMs arguing (323; 2/8. Harris, OH)
 15140 2345 R. Nacional de Chile, OM w/ ID, nx, mx, (444; 2/21. Fernando, NY)(0104; 434;2/10.Harvey,PQ)(0045;555;3/1.Jones,TX)(2238;434;2/19.Rising,CA)
 15150 2210 R. Nacional de Chile, U.S. pops, ID, LAM mx (433; 2/12. Carlson, WA)(2254; 434; 1/8. Kerrigan, IL)(0115; 544; 1/5. Gunter, NC)(Brewer, AR; Robinson, TN; Hotaling, NV; Moshier, CA; Forbes, TX; Bair, CA)

C O L O M B I A /

4875 0428 LV del Norte, OM w/ clear ID @0429, LAM mx, no sign of Super (434; 2/23. /
 4875 0400 R. Super de Medellin, "En el aire, R.S., desde la hermosa ciudad de Medellin, HJNX, 710 kHz, canal preferencial, 4875 kHz onda corta, banda de 61 metros."
 (444; 2/14. Ulmer, LA) 2/27. Berri, CA)
 4915 0035 Emis. Armonías del Caquetá, OM w/ fast talks, ID as R. Sonar (???) (423; /
 4945 0355 R. Colosal, ID, crowd noises, bugle calls, futbol?; (433; 1/8. Gunter, NC) (2226; 544; 2/12. Robinson, TN)(0320;434;2/24.Evans,TN)
 4965 0427 R. Santa Fe, LAM mx, OM ID (232; 2/7. Steck, IL)(0440;333;2/15.Thunberg,PA) (0450;434;2/13.Berri,CA)(0245;433;2/25.Evans,TN)(0520;433;2/17.Wood,LA)(0549; 232;3/3. Preston,CA)
 5010 0328 R. Surcolombiana, chimes, ID, jingles, PSAs, (444; 2/18. Ulmer, LA)(0345; 222; 2/12. Hotaling, NV)(0455;434;2/13.Berri,CA)(0355;433;2/17.Wood,LA)
 5095 0225 R. Sutatenza, many IDs, long talk by OM, CW QRM from CFH (332; 2/16. Thunberg, PA)(0335; 433; 2/23. Evans, TN)(0140; 322; 2/12. Duncan, NC)(0951; 444; 2/6. Rising, PA) // CA)
 6065 1140 R. Super, OM nx, IDs (343; 2/18. Ray, PA)
 11794 2123 R.dif. Nacional de Colombia, mx, 2132 ID: "Desde Bogotá, transmite R.Dif. Nacional de Colombia." YL talk (443; 2/9. Famularo, NJ)

E C U A D O R /

3220 0920 HCJB, px of Ecuadorian vocals w/ OM host, // 6050 (343; 2/13. Pimblett, AB)
 3280 0230 LV del Napo, mx @0231, ID, back to mx (252; 2/18. Paul, AZ)(1040; 333; 2/16. Cereghin, MD)(*0959; s/on w/ accordian mx, anmt @1001 "Alabado sea Jesucristo," and s/on anmts @1002; 333; 2/18. Stephany, NY)
 4655 1110 C.R.E., nx, ID, bank ad (454; 2/18. Ray, PA)
 4680 0049 R. Nacional Espejo, ID, mx, ID (353; 2/18. Paul, AZ)
 4750t 0731 R. El Mundo, OM, presumed ads, but no ID (232; 2/17. Thompson, CA)
 4800 0516 R. Popular de Cuenca, px of local mx, OM w/ ID, fqys, and s/off anmt @0525, NA, then 0528* (333; 3/8. Streeter, NY)
 4901 1055 LV de Saquisilí, QRM from co-channel test tones continuing past 1105, OM rtk w/ ads at top of hour (222; 2/16. Cereghin, MD)
 4920.5 0444 R. Quito, OM, nx, remotes. Singing commercial for "Banco Popular" @0448; R. Quito promo (333; 2/2. Palmer, WA)(0408, 233; 2/7. Steck, IL)(0407;323;2/23. Berri,CA)(0414;333;???;Worob, TX)
 4996.4 0342 R. Baha'í, mx px w/ OM, "Señoras y Señores, en la programación 3 de R. Baha'í, la emisora de la familia, en la frecuencia 4990 kHz en la onda corta, banda de 60 metros..."(333; 3/3. Streeter, NY)(0400*)(0350; 0356*; 322; 2/12. Harvey, PQ)
 5050 1100 R. Jesús del Gran Poder, ID, noticias (433; 2/20. Ulmer, LA)
 6095 0650 HCJB, EE, DXPL (555; 2/21. Somers, CA)(0600; 434; 3/3. Preston, CA)
 9720 0658 HCJB, FF, OM/YL in intimate conversation, mx (333; 3/8. Traver, CA)
 9745 0230 HCJB, EE, DXPL (544; 2/20. Gunter, NC)(0136;454;2/8.Hesch,NY)(0100;444; 2/9. Taylor, MD)(0250; 555; 2/4. Addison, KS)(0230; gd; 2/15. Sharpe, CA) (Harris, OH; Miller, CA; Cox, CA; Brewer, AR; Kerrigan, IL)
 11740 1418 HCJB, EE, px of Ken Korpy (letters)(343; 2/13. Mathew, MA)
 11915 0635 HCJB, EE, Sounds of Joy, (434; 2/16. Lord, CA)
 15115 2200 R. Nacional del Ecuador, mx, TC, ID, px: "Música y Cantantes ecuatorianos," special px on Ecuadorian Declaration of Liberty, address by OM (354; 2/15. Stephany, NY)(Just a note from the BECMS: this relay is from 2155-0030, and is announced as being for listeners abroad. Reception reports should be sent to Box 82, Quito, Ecuador. ch)(2358; 333; 2/13. Cereghin, MD)(2200; 454; 2/21. D'Angelo, PA)(2201; 232; 2/13. Lucas, CA)(2254; 444; 2/22. Schlesinger, TX)(2200; 444; 2/12. Tate,WV) (2300; 443; 2/14. Hensley, TX)(2215; 322; 2/9. Carlson, WA)(0026;454;2/15.Robichaud,
 15115 1401 HCJB, EE, Following Christ is an individual matter...(444; 2/13. // NB) Mathew, MA)(1425;434;2/20. Miller, CA)

DO REMEMBER NOT TO SUBMIT STALE LOGGINGS!!!! I GOT SOME FROM DECEMBER LAST FOR THIS MONTH -- THAT WOULD MAKE THEM 4 MOS. OLD!!! IF THEY'RE STALE THROW 'EM OUT, DON'T MAIL 'EM!

/ E C U A D O R / -- (continued)

- 15155 0230 HCJB, EE, DXPL, amateur radio bcs from Radio Nederland (444; 2/27. Alexander, NC)(15155; gd; 2/20. Sill, MA)(0230; 454; 2/22. Hosmer, MI)(0301; gd; 2/23. Fama, CA) (Harrell, IL; Traver, CA; Duncan, NC; Muzyka, NY; Hill, SC; Schroeder, WI) TN--
15175 2300 HCJB, GG, mx, ID (444; 3/2. Langlois, CA)(*0000; GG/EE, 555; 2/26. Robinson, /
15295 0138 HCJB, FF, "Connaissance de l'equateur," foll'd by "Aux Quatre Vents," produced in Quebec (454; 2/10. Robichaud, NB)(*2130; EE; 444; 2/13. Krist, VA)
17825 *2130 HCJB, EE, DXPL, (333; 2/21. Krist, VA)
21477.5 2130 HCJB, EE, DXPL, (444; 2/14. Krist, VA) Fraser, MA)
26020 2139 HCJB, EE, religious songs (253; 2/13. Robichaud, NB)(1358; 453 deep fades, 2/7

/ F A L K L A N D I S L A N D S / - Falkland Islands Broadcasting Service

- 3958 0926-1002 Fade-out via phone call from Jim Young; px of R&R records with lots of DJ chatter in EE, Typical forces radio-type program. Many time checks for GMT -3 hours (summer time in the Falklands) with frequent mentions of Falklands. Also definite mention of Falklands at the 1000 anmt (3/4. Sparks, CA)
0830 Open carrier on 3958 on 3/5 until 0859, then very short anthem by orchestra. ID by OM: "Falklands Islands Broadcasting Service," time pips @0900 then relay of BBC news by YL. Ham SSB activity made reading the news impossible, but signal strength built up until good copy by the start of the pop music program at 0915 with DJ chatter, lots of TCs and mentions of Falklands. Peak signal strength at 0930. Local weather report heard: "It's April showers today," winds coming south westerly to the Falklands today. Fade-out by 0950. Similar program heard on 3/6 but poor signal, too weak to copy. (Sparks, CA)(0931; het from 3960, but little ARO, OM DJ w/ bagpipes, rock, Dean Martin, 0947 TC as 14 to 7; 1006 f/out; did not seem to be BBC relay; 232; 3/7. Lucas, CA)(0930; EE, Breakfast Show, TC as 6:30 in the morning, advice to "stay tuned to FIBS and you will find out exactly what is happening; 333, f/out by 1000; 2/20. Pimblett, AB)

/ F R E N C H G U I A N A / -- FR3

- 3385 0242 FF, upbeat LAm pops, sounded like a party going on at the studio (433; 2/13 Cereghin, MD)(0322; 454; 2/13. D'Angelo, PA)(0330;333;2/13.Harvey,PQ)(0047; 453; 2/15. Robichaud, NB)

/ G U Y A N A / -- GBC

- 5950 0815 EE, Early Bird px, ID, mx, very good reception today (353; 2/5. Rising, CA) (0751; 322; 2/12. Ulmer, LA)(0238; 232; 2/13. D'Angelo, PA)

/ P A R A G U A Y / -- R.Nac. de Paraguay

- 9735 0132 Excellent concert of classical mx. At 0156 end of concert, OM gave final anmts. IDs as "LV de la Patria" and "R. Nacional de Paraguay." Instrumental NA 0156 and 0157*. (322; 2/7. Palmer, WA)

/ P E R U /

- 3330 0328 Ondas del Huallaya, huaynos w/ ID and ad string @0330, CHU underneath. Superb 90 m tonight (fr; 2/5. Parks, FL)
4755 2350 R. Huanta del Peru, IDed @2355 as R. Huanta, then noticias. Mixing with unID; (pr; 2/19. Parks, FL)
4775 0450 R. Tarma, LAm ballads hosted by om. Ads between selections. ID @0459; (fr/pr; 2/12. Parks, FL)
4790 *0909 R. Atlántida, NA, s/on by OM w/ "Escuche y Compare" slogan (Listen and Compare), mx and then another s/on anmt same as first (454; 2/18. Stephany, NY) (0530; 343; 2/26. Thunberg, PA)
4815 0415 R. Amazonas, OM DJ w/ LAm ballads, Latinized U.S. rock. 0455* w/ OA NA. (fr; 2/12. Parks, FL)
4840 0045 R. Andahuaylas, mostly huaynos w/ several ments. of R. Andahuaylas @0050, 0059. Need LSB to escape ute OC (pr; 2/28. Parks, FL)
4955 1114 R. Cultural Amauta, ments. of Amauta, local mx, TC/ID (322; 2/20. Ulmer, LA)
4995.7 0905 R. Andina, px of local mx. OM ID, TC, tlk between songs (333; 2/12. Street-
5025t 0259 R. Quillabamba, just caught end of prayer, read by YL, then NA i' er, NY) and 0303* (343; 2/17. Pimblett, AB)(1022; 322; 2/23. Schlesinger, TX)(0300*; DJ "sing-alongs"?; QRM co-channel from test tones; 333; 2/11. Cereghin, MD)
5030 0640 R. Los Andes, on late w/ R&R mx and lots of IDs, strong and clear (2/27 Sparks, CA)(0511; 5032 kHz, OA NA and 0533*; 232; 3/5. Streeter, NY)
5045 0329 R. Rioja, really terrible OM singing without mx, brief ID, then back to "singing" (333; 2/13. Cereghin, MD)
5060 0335 R. Amazonas, ads, OM anmts, disco/R&R mx, ad for Inca Kola, OM ID @0358; 0457*; (242; 3/8. Streeter, NY)
5111.5 0435 R. Eco, OM w/ ID @0440, LAm mx, on past 0500 (333; 2/23. Berri, CA)(5111.8; 0424; 333; 2/24. Streeter, NY)
6115 1133 R. Unión, OM w/ ads, phone number, nx (322; 2/11. Hotaling, NV)
6190 0337 R. Oriente, non-stop Peruvian mx, references to "musica peruana" but no ID. 0347 ID (222; 2/8. Palmer, WA)
6904 0014 UNID, OM w/ typical huaynos, ID sounds like: "R Ah-pel-i-cay, who-co" (fr; 2/14. Parks, FL)

PERU -- (continued)

9675 1110 R. del Pacifico, buzz jammer QRM, long, drawn-out ID, clear IDs, into AM anmts (322; 2/16. Cereghin, MD)

SURINAM

4850 0328 SRS, Dutch, mx, NA, OC @0330 (422; 2/14. Ulmer, LA)(0920; 453; 2/6. Rising, CA)(0320; 433; 2/20. Berri, CA)(0308; 443; 2/25. Hensley, TX)(0136;454;2/11.Paul, AZ)

VENEZUELA

3255 0318 LV de El Tigre (R. 980), mx, ID, nx? doorbell used frequently (353; 2/18. Paul, AZ)(0341;453;2/13.Robichaud,NB)(0342;343;2/13.D'Angelo,PA)(0320;342;2/7.Ray, 3275 0338 R. Mara, ID, fqys, mx (453; 2/13. Robichaud, NB)(0233; 353; 2/13. // PA) Paul, AZ)(0350-0356*; 444; 2/13. D'Angelo, PA)
3395t 0358 R. Universidad, heard end of Venezuelan NA and s/off (333; 2/12. Harvey,PQ)
4770 2340 R. Mundial Bolivar, LAm mx, ID, TC (232; 2/6. Ray, PA)(0121; 222; 2/12. Duncan, NC)(0153; 433; 2/25. Ulmer, LA)
4780 0245 LV de Carabobo, mx, 2 IDs including mention of station's 48 years of experience, s/off formalities; 0256* (444; 2/14. Shorock, KS)(0222;333;2/10.Cereghin,MD)(0155; 454; 2/13. Paul, AZ)(1120; 242; 2/20. Ray, PA)
4800 0135 R. Lara, OM w/ long anmt, ID, lead-in to mx (323; 2/12. Duncan, NC)
4830 0100 R. Tachira, LAm mx, canned ID @0103, nx (444; 2/22. Thunberg, PA)
4840 0235 R. Valera, lively LAm mx, ID, TC (343; 2/14. Ray, PA)
4900 0253 R. Juventud, U.S. pops by Kiss, Rod Stewart, Deep Purple (454; 2/19. Spremo, NY)(0200; 443; 2/10. Famularo, NJ)(0324;433;2/6.Steck,IL)
4907 0316 R. Carora, strong signal, bouncy LAm pops (333; 2/13. Cereghin, MD)
4970 0232 R. Rumbos, chimes, TC, ID "Esta es Carnival Musical Rumbos." (443; 2/16. Ulmer, LA)(2356; 333; 2/8. Harris, OH)(1106; 443; 2/22. Somers, CA)(Worob, TX; Lord, CA; Paul, AZ; Sharpe, CA; Gunter, NC)
4980 0219 Ecos del Torbes, SS/EE, px "Noche Recuerdo," TC in every anmt, OM w/ EE anmt @0243, giving address, requesting reports (544; 2/17. Stephany, NY)(0000; 353; 2/13. Fraser, MA)(0400; 433; 2/5. Valentine, CA)(0340'434'2/20.Berri,CA)(2231;544;2/17.Robinson,TN)(0220;332;2/16.Thompson,CA)
4990 0227 R. Barquisimeto, OM w/ rock mx (232; 2/14. Thompson, CA)
5030 0931 R. Continente, mx, ID (323; 1/11. Moshier, ??)
9540 1105 R. Nacional de Venezuela, pop mx, NA @1105 (343; 2/20. Bair, CA)(0400; 433;2/9.Famularo,NJ)(*0625;444;2/19.Robinson,TN)(0315;322;2/8.Palmer,WA)(*1100; 333;2/18.Cunningham,OH)
9620 2221 R. Catatumbo Internacional, Burying Yugoslavia w/ mix of campo and rumba pops, loquacious OM, RBI QRM 2227+; (423; 2/6. Schlesinger, TX)(0525;322;2/8.Pal- 9660 1610 R. Rumbos, weak midmorning reception. (232; 2/10. Cereghin,MD) /// mer,WA) (0440; 333; 2/18. Ulmer, LA)(0900;323;2/12.Duncan,NC)(0927;344;1/31.Kerrigan,IL)

NORTH AND CENTRAL AMERICA

ANTIGUA

6040 0108 DW, EE, OM, cmt on economics (544; 2/26. Howard, MD)
6085 0130 DW, EE, talked on environmental protection in FRG (544; 3/8.Alexander,NC)
6175 0424 BBC, EE, discussion on front-page articles, (533; 2/15. Leonard, ME) (0430; 444; 2/16. Brewer, AR)(0030; 544; 2/6. Worob, TX)
6195 0854 BBC, IS, s/on, (444; 1/29. Kerrigan, IL)
9510 0612 BBC, EE, Newdesk, (544; 2/14. Leonard, ME)(0745;343;1/18.Kerrigan,IL)
9735 0700 DW, GG, OM w/ nx, German election results (444; 3/3. Traver, CA)
17715 2000 DW, GG, clear site ID shortly before 2000. Seems to be error at xmitter, should be 17795. (554; 3/10. Munster, CA)

BELIZE

3285 0212 RBelize, relay of BBCWS px, SS from 0230; (333; 2/22. D'Angelo, PA)(0420; 232; 2/23. Duncan, NC)(0400; 333; 2/22. Worob, TX)(0335; 222; 1/24. Norman, DC)

CANADA

5960 0400 EE, nx, SWLD, new small radio from Sony due this year (444; 2/14. Taylor,MO) (Harris, OH; Harrell, IL; Muzyka, NY; Krist, VA)
6005 0935 CFCX, Montreal, Top-40 hits of the 70's, CFCF Valentine contest, Reloj absent (pr; 2/10. Parks, FL)(1900; 354; 2/24. Spremo, NY)(1302;343;3/1.Ray,PA) (1716;audio sounds distorted lately; 444; 2/28. Leonard, ME)
6120 0200 BBC, EE, nx (434; 1/31. Norman, DC)(0300; 434; 2/8. Zolla, CA)
6130 2130 CNHX, Halifax, C & W mx, English hotline to Univ. of New Brunswick (343; 2/7. Fraser, MA)
6195 0300 CBCNQSWS, EE nx, PQ wx; (233; 2/28. Harris, OH)
9535 *0300 RCl, EE, OM, political cmt on Cruise missile (444; 2/20. Cox, CA)
9625 0205 CBCNQSWS, EE, nx (333; 2/10. Addison, KS)
9755 0300 RCl, EE, worsening U.S./Canadian relations over (1) lumber, (2) Airfares, (3) grain, (4) "Propaganda" films (444; 2/26. Wettersten, OH)
11720 2250 CBCNQSWS, EE, 800-mile walk to the Pole, nx from CBC newsroom in Frobisher Bay (554; 2/10. Harrell, IL)(2300; 444; 2/9. Duncan, NC)
11850 0122 RCl, EE, SWLD (434; 2/27. Somers, CA)

CANADA -- (continued)

VA)

- 11905 *1900 RCL, EE, nx, wx, sx, interesting item on nuclear medicine (555; 2/21. Krist,
 11925 2041 RCL, EE, interview w/ professor on sentence structure, (333; 2/24. Howard,MO)
 11940 0226 RCL, EE, mailbag (333; 2/28. Sanderson, AZ)(2155;555;2/14.Schroeder,WI)
 11945 *2129 RCL, EE, African Svce, SWLD, joint px w/ Swiss SW Merry-Go-Round, (444; 2/12.
 Krist, VA)
 11955 1540 RCL, EE, Sunday Morning, talk about leprosy and push to change the name to
 Hansen's Disease (I, for one, am against that, hi! ch)(444; 2/27. Kerrigan, IL)
 (1930; 444; 2/21. Langlois, CA) Hesch, NY)
 15325 2125 RCL, EE, cmt, on Canadian economy, (333; 2/22. Tilley, CO)(2130; 453; 2/12. /
 17820 1900 RCL, EE, talk about the Canadian national debt (343; 2/25. Dan Johnson, CA)
 (*1800; 555; 2/21. Krist, VA)(2150; 434; 2/27. Tilley, CO)(1635;444;2/13.Harrell,IL)

COSTA RICA

- 4832 0615 R. Relej, mx, ID @0623, (434; 2/28. McKeon, IN)
 6006 0610 R. Relej, nx, cmt, ID, (444; 2/27. Evans, TN)

CUBA

- 6020 0632 RHC, world nx (554; 2/21. Somers, CA)
 6060 2343 RHC, EE, mx of Central America (555; 2/5. Robinson, TN)
 11760 0539 RHC, EE, YL/OM mailbag, 0600* (433; 2/3. Cox, CA)(1700;333;2/5.Addison, KS)
 (0541; 444; 2/20. Harris, OH)(1450; 454; 2/19. Muzyka, NY)
 11890 2128 RHC, AA, EZL mx, OM ID, tlk (332; 2/13. Lucas, CA)
 11930 0120 RHC, EE, El Salvador, former Argentine race driver Fangio sends greetings to
 his Cuban kidnappers (Oh, gee, what next? ch)(444; 2/27. Wettersten, OH)(0100;
 534; 3/1. Tilley, CO)(0132; 444; 2/7. Addison, KS)(0150; 555; 2/8. Harrell, IL)
 17705 1840 RHC, FF, excellent guitar instrumentals, but some xmitter problems (444;
 2/8. Famularo, NJ)
 17750 1910 RHC, YL/OM ID, nx (444; 2/26. Langlois, CA)

GREENADA -- R. Free Grenada

- 15045 2240 EE, sx, Windward Islands vs. Jamaica. ID, obits (444; 2/5. Harrell, IL)(2140;
 ad for Crest toothpaste; 222; 2/20. Harris, OH)(2334; 443; 2/25. Famularo, NJ)
 (2130; 433; 2/27. Langlois, GA)(0000; 444; 2/18. Berri, CA)(2205; 333; 2/10.
 Hill, SC)(2335; 333; 2/13. Carlson, WA)(2315; 2/11. Smith, FL)(2155; 343; 2/20.
 Drollinger, WI)(2130; does anyone know what they do with my IRC's and MS's? (Well,
 if the climate down there were cold, I'd say they were using them for fuel; perhaps
 you're financing the Program Director's mail to Cuba. ch); 444; 2/20. Gunter, NC)

GUATEMALA

- 3300 0337 R. Cultural, mx, cmt, ID @0342 (252; 2/13. Robichaud, NB)
 3325 1145 R. Maya de Barillas, multi-lingual talk and local mx, mostly religious; much
 lightning this AM (444; 2/22. Schlesinger, TX)(1105; 322; 2/11. Hotaling, NV)
 3360 0207 LV de Nahualá, ID @0210, mentioned Nahualá 3 times, (443; 2/16. Robichaud,NB)
 (0300; 0308*; 222; 2/10. Harvey, PQ)(0240; 333; 2/10. Cereghin, MD)
 3370 0110 R. Tezulutlan, mariambas, tlk in local language (444; 2/17. Schlesinger, TX)
 (0051; 353; 2/15. Robichaud, NB)(0138; 343; 2/7. Cereghin, MD)
 3380 0304 R. Chortis, @0305: "R. Chortis, de Jocotan...una muy buena moche." 0309*
 (353; 2/13. Robichaud, NB)(0223-0228*; 444; 2/14. Shorock, KS)
 4825 0235 R. Mam, LAm mx, TC, ID @0235; (232; 2/16. Robichaud, NB)(0220; 0230*;
 322; 2/10. Harvey, PQ)(2335; fr/pr; 2/19. Parks, FL)

HONDURAS

- 4781t 2314 R. Juticalpa, OM w/ soccer play-by-play, ID was of "R. Landia, Honduras."
 Relay presumed. (pr; 2/11. Parks, FL)
 4820 0320 HRVC, LV Evangelica, EE, Billy Graham px, ID as the "Good News Station."
 (poor; 2/14. Ulmer, LA)(0402;0455*; 433; 2/23. Evans, TN)(0430; 0455*; 344;
 2/28. Bair, CA)
 4910 0240 LV de la Mosquitia, continuous U.S./LAm EZL instrumentals, strong carrier
 but weak modulation (You don't mention an ID. Was there one? ch)(pr; 2/23.Parks,FL)

MEXICO

- 2390 0043 R. Huayacocotla, OM discussing Mazatlan campesino mx, over much lightning
 (322; 2/17. Schlesinger, TX) ing, NV)
 6105 0145 XEQM, Su Pantera, much U.S. mx (352; 2/14. Jones, TX)(1310; 322; 2/18. Hotal-
 6115 2300 R. Universidad, classical mx w/ talk interlude. Most of the time RMWS drowns
 it out (333; 1/17. Moshier, CA)
 9515 2050 LV de la América Latina, public affairs px w/ OM/YL, bracketed by ad string,
 XEWV IDs (444; 2/21. Schlesinger, TX) IL)
 15430 0135 R. México, EE, musical geography of Mexico, mariachi mx (343; 2/12. Harrell,

MONTSERRAT

- 11705 0540 DW, EE, mx, tlk about 19th century Hallenbach animal shows and how the
 animals were obtained; ID before 0549* (444; 2/21. Hosmer, MI)(0500; 434; 2/26.
 Evans, TN)

AM STILL COUGHING MY GUTS OUT. IT'S BEEN A WEEK NOW. I HOPE YOU DON'T GET IT.

NETHERLANDS ANTILLES

- 6020 1007 RN, Dutch, creole mx, Interview w/ Andre Crumm (Thompson, CA)
6165 0429 RN, Dutch, s/on jingle w/ YL ancing fqys (544; 2/15. Leonard, ME)(*0230; 444; 2/11. Krist, VA)(0250; special feature on numbers stations; 555; 2/11. Demmitt, PA)(0230; 555; 2/10. Black, MA)(0325*; 444; 2/8. Zolla, CA)
9510 0955 RN, Dutch/EE, RN test?? tune-in @0955 to ID "RN Hilversum", no ID or TC @1000; continuous talk by 2 OMs, 1015 piano mx, ID @1018, 1019-1023 nx, then 1025* suddenly. (555; 2/26. Creamer, CO)(This is a new freq, beginning in the winter season 82. Usage is 0935-1025 GMT. ch)
9535 0503 TWR, EE, OM w/ update of world happenings, YL with Part II of Caribbean Night Call (434; 2/28. Howard, MO)(0343; 444; 2/20. Harris, OH)(0600; 0725*; 444; 2/14. Taylor, MO)(0600; 444; 2/15. Valentine, CA)(0455; 444; Moshier, CA)(0400; 554; 2/7. Harrell, IL)(0445; 444; 2/20. Cox, CA) son, AZ)
9590 0230 RN, EE, "Happy Station" (444; 2/14. Wettersten, OH)(0233; 333; 2/21. Sander-
9715 0852 RN, EE, nx magazine px, interviews w/ Hutch nxman on Surinam (434; 2/25. Kerrigan, IL)(*0530; 444; 2/5. Cox, CA)
11815 1124 TWR, EE, ID, "Morning Sounds," (554; 2/9. Hesch, NY)

UNITED STATES OF AMERICA

- 5985 0330 Voice of Free China relay, EE, talks about social welfare in Taiwan (544; 2/4. Harrell, IL)(0330; 544; 2/7. Hecht, PA)
5995 0435 VOA, EE, Breakfast Show with a song by Joe Jackson (544; 2/23. Leonard, ME)
6000 0420 KGEI, testing new antenna. Vibraphone IS, than anmt in EE/Russian "This is Station KGEI with a test transmission of a new antenna. For your QSL please send a reception report to KGEI, P.O. Box 15, San Francisco, CA, U.S.A." Each transmission lasted about 5 minutes, then off the air for about 10 minutes, and repeat. No other listed frequency for KGEI was noted testing at this time of the night (2/11. Sparks, CA)(0445; 333; 2/10. Tate, WV)(0550; 333; 2/14. Starr, GA)(0519; 555; 2/6. Worob, TX)
6015 0430 WYFR, Russian, YL w/ rel. mx., ancd address (434; 2/23. Duncan, NC)
6065 0115 WYFR, EE, dramatic religious program (Christian soap opera?)(433; 2/11. Duncan, NC)
6125 0615 VOA, EE, OM w/ tlk on South African elections (544; 3/1. Valentine, CA)
6100 0945 KGEI, EE/other langs.; new antenna test; YVTO co-channel, (433; 2/20. Lucas, CA)
6130 0030 VOA, EE, "Music USA." (555; 2/13. Hill, SC)
6155 1006 WRNO, EE, Powerline religious px, looks like they may go late on this fqy Sats and Suns. EST when they have extra time buyers (433; 2/27. Lucas, CA) (0230; 555; 2/13. Hill, SC)(0425; 555; 2/7. Hecht, PA) (0347; 544; 2/26. Howard, MO)(0455; 454; 2/18. Trager, CA)(0232; 223; 3/6. Forrest, CA)(0230; 554; 2/9. Heach, NY)
7355 0708 WYFR, EE, call-in program (444; 2/16. Leonard, ME)(0628; 555; 2/16. Schul-singer, OH)(0620; 454; 2/21. Hosmer, MI)(0715; 444; 1/19. Moshier, CA)
7400 0040 VOA, OM tlk, (554; 2/18. Miller, CA)
9365 1947 WYFR, EE, ID, mx, consumer px (344; 2/14. Hensley, TX)
9565 1407 VOA, EE, magazine show, rather partisan editorials approving of aid to El Salvador (444; 2/6. Schlesinger, TX)(0025; The Voice of the OAS, 454; 2/8. Hesch, NY)(2345; OAS; 544; 2/18. Sampson, WI)
9650 0030 VOA, Special EE, nx (444; 2/24. James, NC)
9680 0643 WYFR, EE, OM w/ story of Joshua fitting the battle of Jericho (You know, and the walls came tumblin' down?? ch)(322; 3/8. Traver, CA)
9715 1240 WRNO, EE, RC Sproul Study Hour (One thing's for sure, "RC" doesn't stand for "Roman Catholic" ch)(444; McCants, AL)
11740 0101 VOA, EE, OM ID (444; 2/19. Addison, KS)(0200; VOFC via WYFR, EE, winners of song contest; 443; 2/12. Sampson, WI)
11790 0330 AFRTS, EE, basketball game: LA Lakers and KC (544; 2/5. Valentine, CA)
11890 2330 WRNO, EE, World of Radio, gh played his Virgin Islands tapes (444; 2/6. Taylor, MO)(2305; 433; 2/13. Krist, VA)(2330; 422; 2/13. Hensley, TX)(2325; 434; 3/4. Famularo, NJ)
11965 0046 WRNO, EE, mx, CBS nx, ad for Wall Street Journal (444; 2/22. Ryeder, FL)
15120 2145 UN Radio, EE, Caribbean report, into FF (434; 2/4. Wood, LA)
15145 0050 WINB, EE, instrumental mx, to ID in SS/EE @0100 w/ address (322; 2/10. Harvey, PQ)(2258; 343; 2/21. D'Angelo, PA)
15160 2350 Voice of the OAS, new Chilean cabinet (454; 2/15. Robichaud, NB)
15185 2135 WINB, EE, talk-back w/ Bob Lorren (333; 2/10. Taylor, MO)(2040; no, it's not Bob "Lorren," it's Bob Larsen!; 333; Moshier, CA)(2130; 343; 2/22. Tilley, CO)
15195 1800 VOA, FF, nx, (544; 2/18. Valentine, CA)
15215 1615 WYFR, EE, mailbag, Back to God Hour (555; 2/21. Wimmers, VA)
15330 0130 AFRTS, EE, NHL All-Star Hockey Game, (353; 2/9. Krist, VA)
15345 2100 AFRTS, EE, nx (444; 2/14. Hensley, TX)
15355 2100 WRNO, religious px, EE, not on 11890 (444; 2/9. Duncan, NC)
15365 2200 WYFR, EE, mx, open forum px (333; 2/11. Taylor, MO)(2210; 555; 2/12. Harrell, IL)(2120; 444; 2/22. Tilley, CO)(1800; 555; 2/26. Dan Johnson, CA)

UNITED STATES OF AMERICA / -- (continued)

- 15380 2210 WYFR, EE, mailbag, Back to God Hour (444; 2/6. Taylor, MO)
- 15410 2000 VOA, EE, education in U.S.A. (444; 2/21. Langlois, GA)
- 15430 1100 AFRITS, EE, National Public Radio nx (343; 2/11. Krist, VA)
- 15440 1945 WYFR, EE, religious readings (444; 2/21. Langlois, GA) (ME)
- 15580 2050 VOA, EE, Jazz Hour to 2100 nx (333; 2/22. Tilley, CO)(1708;544;2/28.Leonard,
- 15600 2135 VOA, EE, promos for VOA shows, talk about Mt. St. Helens (554; 2/15. Harrell,
- 17730 1725 WINB, EE, Sun. services w/ black preacher (444; 2/6. Schlesinger, TX) /// IL) (1630; 444; 2/8. Addison, KS)
- 17730 2100 UN Radio, EE, YL w/ ID, fqys, t1k about Libya (353; 2/25. Dan Johnson, CA)
- 17785 1930 VOA, EE, Dateline w/ interview of Georgianne Guyer, a foreign correspondent (455; 2/25. Dan Johnson, CA)
- 17845 2200 WYFR, EE, variety of programs (434; 2/27. Tilley, CO)
- 17895 1830 WRNO, EE, ads (133; 2/28. Forrest, CA)
- 21460 2340 VOA, EE, Reagan's Birthday (Yes, and the cake started two forest fires. ch) (453; 2/5. Harrell, IL)(2210; 555; 2/14. Schroeder, WI)
- 21480 1814 VOA, EE, weekend report (444; 2/5. Schlesinger, TX)
- 21485 1730 VOA, EE, S p e c i a l E E n x, (454; 2/21. Krist, VA)
- 21510 1732 WYFR, GG, religious mx, Onward Christian Soldiers (222; 2/18. Lord, CA)
- 21615 1723 WYFR, EE, Marriage and the Bible (444; 2/6. Schlesinger, TX)(When I was in the Seminary, where celibacy was enjoined, I was once asked to read at Evening Prayer the passage from Paul which begins: "It is better to marry than to burn with desire..." Great stuff for celibates. I got through it, but barely. ch)
- 21640 1715 VOA, EE, fighting in South Africa (444; 2/26. Langlois, GA)
- 21840 1955 VOA, EE, Dateline, Jazz Hour (555; 2/14. Hensley, TX)(1530;454;2/26.Krist,VA)
- 26000 1955 VOA, EE, Dateline (353; 2/21. Krist, VA)
- 26040 2000 VOA, EE, Nightline Africa (455; 3/1. Tilley, CO)

CLANDESTINE

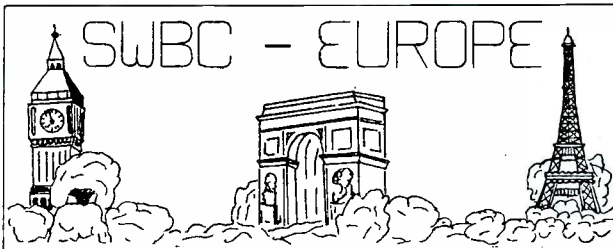
- 4980 0129 R. Antonio Maceo (via Ecos del Torbes), full ID of all stations and fqys, 0133 back to E del T (333; 2/10. ??? Who are you?)
- 5106 0120 R. Ignacio Agramonte, IS 3 times, ID (222; 2/10. Harvey, PQ)(0200+; 343; 3/1. Jones, TX)(0146; 352; 2/20. Spremo, NY)
- 5750 0400 LV de Nicaragua Libre, alternating talks by OM/YL (444; 2/17. Pimblett, AB) (0444; 433; 2/12. Ulmer, LA)
- 6215 0445 LV de Sandino, long political talk and some mx. Two IDs just before final anmt and orchestral anthem. 0455* (2/15. Sparks, CA)(0400; 322; 2/12. Hotaling, NV) (6225; 0406; 222; 2/10. Rising, CA)(6227;0010;353; 2/19. Spremo, NY)
- 7000 0330 R. 15 de Sept., martial mx, 0335*; (232; 2/16. Schulsinger, OH)(6900; 0308; pr/fr; 2/20. Grijalva, AZ)(6800; 0340; 333; 2/19. Grijalva, AZ)
- 6865 0255 R. Miskut, political rhetoric in Indian language to 0300. Primitive guitar mx 0304, NA 0306, 0307*. (444; 2/20. Cunningham, OH)(6864; 0215; EE speech: "To Live In Harmony." anti-Sandinista; 0315* w/ anthems; 433; 2/13. Konek, WI)(6870; 0204; pr; 2/22. Grijalva, AZ)(6863; 0300; 343; 2/20. Grijalva, AZ)(6865; 0228; gd; 2/12. Parks, FL)
- 6210 0233 R. Venceremos, YL ID amid crowd of singing people, OM talk and then jammed (322; 2/8. Famularo, NJ)(6884; 0313; pr/fr; 2/20. Grijalva, AZ)(6895; 0329*; 443; 2/25. Jones, TX)(6210; 0304; 0332*; 322; 2/27. Lucas, CA)(6895; 0016; 323; 2/12.
- 7350 0333 R. Antonio Guiteras, U.S./British pop mx, "Musica Libre," /// Ulmer, LA) ID as LV del CID. 0336*; (433; 2/6. Cunningham, OH)(0319; 353; 2/26. Schulsinger, OH)(0100; 333; 2/11. Stone, ON) LA)
- 7465 0130 R. José A. Echeverria, ID, lists of stations, Cuban NA, OC (444; 2/25. Ulmer,
- 11700 2145 R. Máximo Gómez (via R. Clarín), Música Libre, rock mx (333; 2/11. Harvey, PQ)(2345; 233; 2/10. Drollinger, WI)(2155; 333; 1/25. Kerrigan, IL)(1735; 444; 1/23. Gunter, NC)(1739; 443; 2/12. Schlesinger, TX)

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I'd just like to discourse for a paragraph or so on the subject of stale loggings. Many this month sent loggings from January or even December. Remember that even timely loggings in this column are up to a month or two old by the time SPEEDX is in your hands. January and December loggings could be up to five months old. Definitely uninteresting by this time. I cut most of them out, so if few or none of your loggings made it this month, that's why. I will essay to send a card to some newer members who submitted old loggings just to greet them and expound on the submission of fresh loggings. You older hands should know by now.

Well, thanks for your loggings this month. I don't know whether I'll be doing next month's column or not (see the masthead for details -- if my name is there, I'll be doing next month's column). Do take care of yourselves, DX well, and CUN 30

for this month's loggings.



EDITOR: TERRY LINDLEY
NEW EDITOR FOR MAY:

MARK KOUKOL
P.O. Box 321
De Kalb, IL 60115

Deadline: 12th
Times and Dates: GMT
Frequencies: kHz

A L B A N I A R.Tirana

- 5057 0540 RT: EE-YL w/mx pgm, OM & YL reads nx pgm.(312 3/3 McKeon-IN)
6200 0330 RT: EE-Nx pgm, & "Review of Intl Events"(443 2/27 Wettersten-OH)(Forbes-TX)(Duncan-NC)
7065 0000 RT: EE-ID, talk on deployment of US missiles in Europe.(332 2/5 Harrell-IL)(Van Horn-TX)(Muzyka-NY)
7080 0630 RT: EE-Nx pgm, IDs & mx pgm.(343 2/14 Leonard-ME)
7120 0138 RT: EE-YL answers listeners letters.(444 1/29 Harvey-QUE)(Sanderson-AZ)(Gunter-NC)
9500 0630 RT: EE-YL w/nx pgm, talk on a film "A Good Person"(434 3/3 McKeon-IN)
9750 0130 RT: EE-IS, ID, YL w/cmtry & propaganda.(433 2/11 Duncan-NC)

A U S T R I A Osterreichischer Rundfunk

- 5945 0430 ORF: EE-"Austria Calling" w/nx, & mx pgm.(433 2/11 Krist-VA)(Miller-GA)(Harrell-IL)
6115 0138 ORF: EE-Talk on missile freeze.(444 2/28 Harris-OH)
9655 0430 ORF: EE-ID, freqs, Glenn Hauser w/DX nx.(344 2/28 Miller-CA)
9770 0130 ORF: EE-IDs, freqs, "Report From Austria"(222 2/4 Wood-LA)(Howard-MO)(Van Horn-TX)
12015 1500 ORF: EE-pgm of nx to SW Europe.(242 2/25 Zilmer-NM)
21615 1235 ORF: EE-"Austrian SW Panarama" w/Glenn Hauser and info on KYOI VOA, ect.(443 2/9 Hesch-NY)(Thunberg-PA)(Fraser-MA)(Krist-VA)(Wettersten-OH)

B E L G I U M Belgische Radio en Televisie

- 7465 0030 BRT: EE-Talks, folk mx, QRM from RTTY.(333 2/20 Muzyka-NY)(Harris-OH)(Harrell-IL)(Manning-TX)(Krist-VA)
9880 0040 BRT: EE-YL w/talk on economics.(232 2/18 Lucas-CA)(Forbes-TX)
11625 0030 BRT: EE-Brussels Calling to S.Amer.(232 3/7 Zilmer-NM)
15585 :1950 BRT: EE-DX nx, freq & skeds.(222 3/6 Zilmer-NM)
17610 1415 BRT: EE-YL w/sports nx, pop mx pgm.(454 2/22 Hosmer-MI)(Manning-TX)(Zilmer-NM)
21460 1500 ORU: FF-IS, ID, OM w/mx pgm.(444 2/16 Stephany-NY)

B U L G A R I A R.Sofia

- 7115 0400 RS: EE-NX pgm, cmtry, & mx pgm.(343 2/27 Sampson-WI)
7255 0450 RS: EE-Talk on 131st Revolution.(333 Karns-OH)
9700 1912 RS: EE-Opera mx, talk on artists & poets.(555 2/27 Robinson-TN)(Howard-MO)(Hill-SC)(Harris-OH)(Harrell-IL)(Duncan-NC)(Card-RI)
11720 0005 RS: EE-OM w/nx pgm, & IDs.(433 2/25 Forbes-TX)

C Z E C K O S L O V A K I A R.Prague

- 7345 0100 RP: EE-"Sunday Magazine of the Air" pgm w/a talk on Bulgarian health care.(233 2/28 Rising-CA)(Fraser-MA)(Alexander-NC)
11970 0100 RP: EE-OM w/ID, YL w/nx pgm.(444 2/27 James-NC)
11990 1749 RP: EE-YL w/cmtry on womens jobs, ID.(322 2/11 Palmer-WA)

D E N M A R K R.Denmark

- 9775 0100 RD: DN-YL w/ID & pgm of nx.(433 2/16 Van Horn-TX)
11715 2258 RD: EE/DN-IS, ID, freqs, wld nx pgm.(343 2/27 D'Angelo-PA)(222 2/22 Harris-OH)

F I N L A N D R.Finland

- 75400 1330 RF: EE-"Sunday Best" w/talk on Finnish films.(344 2/20 Wettersten-OH)(Krist-VA)(Kerrigan-IL)(Harris-OH)
21475 1305 RF: EE-Talk on political parties & elections.(333 2/4 Harrell)
- Last week I met a lady with an "accent" and after talking a bit I asked her where she was from. She said Central America, then I said oh really what part? She immediately said Kansas... tml.....

F R A N C E R.France Intl
 9660 0632 RFI: FF-OM w/nx pgm, talk on Pope.(423 3/8 Traver-CA)
 11735 0731 RFI: FF-OM w/talks.(333 3/8 Traver-CA)
 11995 0033 RFI: SS-Nx, IDs, & cmtry.(443 2/28 Morre-TX)
 15195 1945 RFI: FF-YL w/nx pgm to Afr.(545 2/14 Valentine-CA)
 15300 1400 RFI: EE-"Paris Calling Afr" w/nx, plays.(444 2/20 Wettersten-
 17620 1630 RFI: EE-"Paris.Calling Afr" w/ID, address, wld nx.(444 2/22
 Hosmer-MI)(Card-RI)(Gunter-NC)(Howard-MO)(Krist-VA)
 17795 0507 RFI: EE-YL w/a pgm of FF nx.(2/12 Piatelli-CA)
 21525 1815 RFI: FF-OM w/talks in French.(444 2/5 Valentine-CA)
 21580 1602 RFI: EE-"PCA" w/ID. & talk on Nigeria.(353 2/12 Harrell-IL)
 (Trent-AK)(Wimmers-VA)(Card-RI)
 21595 1630 RFI: FF-2 OMs w/mx pgm & talks.(444 2/2 Valentine-CA)
 21685 1638 RFI: EE-"PCA" w/results of a survey.(2/27 D'Angelo-PA)

G E R M A N D E M O C R A T I C R E P U B L I C R.Berlin Intl
 6040 0514 RBI: SS-IS, ID, OM w/pgm of nx.(232 2/5 Palmer-WA)
 9550 0345 RBI: EE-YL w/ID, & cmtry on capture of a German war criminal.
 (444 2/8 Zolla-CA)
 9560 0330 RBI: EE-YL w/nx, OM w/cmtry on arms reduction.(433 2/20 Cox-LA
 (Pamularo-NJ)(Harrell-IL)
 9620 2130 RBI: EE-Nx, & cmtry on arms.(333 2/24 Miller-GA)
 11975 2015 RBI: EE-Talk on economic growth.(545 2/27 Robinson-TN)
 11980 1626 RBI: EE-IDs, grm from hets.(222 2/18 Lucas-CA)
 15170 1815 RBI: EE-OM w/cmtry about CIA agents.(323 2/11 Duncan-NC)
 15240 1317 RBI: EE-Talk on disarmament, ID.(333 3/4 Famularo-NJ)(Krist-
 VA)(Wettersten-OH)

G E R M A N F E D E R A L R E P U B L I C Deutsche Welle
 3990 0150 DW: GG-ID, mx sung by OM.(333 2/26 Fraser-MA)
 5960 0515 DW: EE-pgm of pop rock mx, & nx.(good 2/23 Fama-CA)
 6040 0100 DW: EE-IS, freqs, & nx pgm.(434 2/12 Duncan-NC)(Addison-KS)
 (Harrell-IL)
 6075 1906 DW: GG-Wld nx pgm, OM w/mx.(545 Robinson-TN)
 6085 0530 DW: GG-OM & YL w/talks & mx.(444 3/1 Preston-CA)(Duncan-NC)x
 (Valentine-CA)
 6145 0130 DW: EE-Mx, talk on German elections.(444 2/23 Thunberg-PA)
 (Van Horn-TX)(Cox-LA)
 9545 0500 DW: EE-OM w/nx, talk on art exhibits.(444 2/28 Preston-CA)
 9615 1552 DW: HD-Exc mx og India.(444 2/8 Palmer-WA)
 9690 0200 DW: EE-Nx to Asia. Argentina not heard.(232 2/25 Zilmer-NM)
 (Piatelli-CA)
 9735 1500 DW: EE-Nx beamed to Afr.(222 3/4 Zilmer-NM)
 11965 1500 DW: EE-Nx to Afr."Window on the World"(322 2/25 Zilmer-NM)
 15105 2300 DW: SS-OM w/a pgm of nx.(444 2/21 Langlois-GA)
 17795 2140 DW: GG-NX, mx pgm, letters from DXers.(545 2/27 Tillet-CO)
 21735 1825 RFE/RL: RR-Wld nx, ID.(fair 2/27 Sharpe-CA)

G R E E C E Voice of Greece
 5960 0430 VOG: EE-"This is the news in breif"(555 1/20 ?????????//?????
 7305 0520 VOG: GK-Pgm of mx, ID.(444 2/18 Ulmer-LA)
 9865 0320 VOG: EE-GK mx pgm, nx, & talk on bases in Greece.(444 2/11
 Mountain-BC)(Harris-OH)(Harrell-IL)(Valentine-CA)(Thunberg)
 15055 1601 VOG: AB-IS, OM w/ID, YL w/nx.(242 2/24 Ray-PA)
 17560 1535 VOG: EE-High praise for Tennessee Williams.(332 2/26 Wettersten

H U N G A R Y R.Budapest
 9585 2046 RB: HG-Mx pgm, wld nx. Elvis sings.(555 2/27 Robinson-TN)
 (Wettersten-OH)(Harrell-IL)(Alexander-NC)

I C E L A N D ISBS
 13797 1957 ISBS: IC-Rock mx pgm, OM&YL w/anncs.(353 2/18 Ray-PA)
 (333 2/11 Harvey-QUE)

I R E L A N D R.Dublin Intl
 6910 0635 RDI: EE-Mx pgm, ID, nx, & more mx.(232 2/28 Schulsinger-OH)
 RDI: EE-Phone calls from listeners.(242 2/27 D'Angelo-PA)

I T A L Y
 9575 0100 RAI: EE-Violin mx, mx pgm, YL w/ID, & nx.(343 2/25 Johnson-CA
 (Wettersten-OH)(Harrell-IL)(Valentine-CA)(Fraser-MA)(Addison-
 9710 0030 RAI: IT-YL & OM w/mx & nx pgms.(322 2/25 Sable-NY)
 11800 0435 RAI: IT-ID, nx pgm, mx.(433 2/28 Moore-TX)

L U X E M B O U R G H R.Luxembourg
6090 0150 RL: EE-OM w/rock mx, talk om big snow.(323 1/31 Norman-DC)
,(Card-RI)(Gunter-NC)

M A L T A R.Mediterran
5960 2230 RM: FF-Nx, mx, talk on Malta.(544 1/30 Robichaud-NB)
6110 2304 RM: EE-Cmtry, ID, address, nx, & mx.(342 3/1 Spremo-NY)(
(D'Angelo-PA)(Robichaud-NB)
9555 0600 IBRA Radio: RR-IS, religious pgms.(354 2/27 Stephany-NY)

M O N A C O Trans World Radio
9495 0725 TWR: EE-OM w/ID, YL w/religious pgm.(454 2/2 Hesch-NY)(Gayle
Van Horn-TX)(Ulmer-LA)
11655 0445 TWR: ??????-YL ?????????????????????(222 2/7 Steck-IL) info?

N E T H E R L A N D S R.Nederland
11720 0719 RN: EE-OM w/nx, talk on British mine strike.(322 3/8 Traver-CA
9895 0950 RN: EE-the "Shortwave Feedback" pgm.(444 1/15 Gunter-NC)
11750 1855 RN: EE-pgm of ElSalvadorian mx.(343 2/21 Thunberg-PA)
17605 1450 RN: EE-"Medis Network" w/info on a Pacific beacon.(454 2/3
Hesch-NY)(
21685 2050 RN: EE-Nx pgm, talk on Dutch cheese.(444 2/28 Tilley-CO)
(Valentine-CA)

N O R W A Y R.Norway
6185 0400 RN: EE-"Trends & Traditions", rel pgm.(433 2/27 Miller-GA)
9590 0129 RN: NW/EE-ID, IS, tape is wrong speed.(322 2/24 Sable-NY)
17840 1400 RN: EE-Freq & sked, nx pgm.(333 3/6 Zilmer-NM)
25730 1615 RN: EE-ID, mx pgm.(253 2/6 Harrell-IL)
26030 1409 RN: EE-Nx pgm about Norway.(2/6 Harris-OH)

P O L A N D R.Polonia
7270 0630 RP: EE-Nx pgm, jazz, folk, rock, & pop mx.(433 2/14 Krist-VA)
11840 1143 RP: EE-Pgm of nx, & mx.(222 2/20 Harris-OH)

P O R T U G A L R.Portugal
6025 0315 RP: EE-ID, freqs, talk on Cape Verde Is.(443 2/7 Harrell-IL)
8075 0548 RP: EE-Talk on new postage stamp issues.(555 Gunter-NC)
9670 2100 IBRA: PO-ID in EE, hymn, rel talk by OM.(333 2/22 Ray-PA)
11730 2329 R.Renascentia: PP-IS, pgm of pop mx.(433 2/26 Moore-TX)
11925 0230 RP: PF-Songs & mx pgm.(444 2/28 Valentine-CA)(Harris-OH)
15105 1800 RP: EE-Nat anthem, OM w/nx.(323 Norman-DC)
15259 1800 RP: EE-Mx pgm, ID, Nx by YL.(232 2.10 Dan Johnson-CA)(Palmer)
25665 1600 RFE/RL: PO-Nx pgm, talks, & mx.(353 3/7 Zilmer-NM)

R O M A N I A R.Bucharesti
9550 0215 RB: EE-OM & YL w/Communist party, mx pgm.(333 2/4 Wood-LA)
(Krist-VA)
9570 0400 RB: EE-Anti Nuke talk, talk on museum of wood carving.(432 2/
2/27 Wettersten-OH)
15250 1300 RB: EE-Pgm of nx, & a cmtry.(242 3/6 Zilmer-NM)

S P A I N Radio Exterior de Espana
9360 0508 REE: SS-OM & YL w/IDs, nx pgm.(545 2/10 Worob-TX)
9630 0003 REE: EE-YL w/nx pgm, weather repprt.(545 2/15 Starr-GA)(Card-
RI)(Miller-CA)(Van Horn-TX)(Addison-KS)(Piatelli-CA)(Cox-LA)
(Traver-CA)(Sable-CA)(Harris-OH)(Harrell-IL)(Valentine-CA)(+7
11730 0720 REE: SS-a radio drama (live) w/war sounds.(322 3/8 Traver-CA)
11760 2139 REE: EE-OM w/wld nx, ID, sports.(232 2/13 Lucas-CA)(Fernando-
NY)(Krist-VA)(Famularo-NJ)(Hosmer-MI)(
11870 0000 REE: EE-YL w/cmtry, wx, mx.(444 2/24 James-NC)
11880 0540 REE: EE-YL w/talk on Navarre, mx pgm.(333 2/28 Preston-CA)
(Hosmer-MI)(Wettersten-OH)(Rising-CA)(Card-RI)(Gunter-NC)
(Somers-CA)(Valentine-CA)
15125 2015 REE: EE-OM & YL w/pgm of nx.(433 2/21 Langlois-OGA)
15190 1629 REE: SS-ID, talks & mx.(333 3/7 Zilmer-NM)
15375 2121 REE: EE-YL w/mx & nx, ID.(444 2/19 Brewer-AR)(Gunter-NC)(
(Krist-VA)(Langlois-GA)

This will be my last Europe column. No I'm not leaving SPEEDX, I enjoy editing too much for that. Some months the 12th and 13th catches me mucho busy but I still enjoy doing the column. More on this on the last page.

S W E D E N

R.Sweden Intl
 9695 0230 RSI: EE-"Weekday Tuesday" w/nx, talk on art treasures.(444 2/23 Hosmer-MI)(Wettersten-OH)(Addison-KS)(VanHorn-TX)(Harris-OH)(Duncan-NC)
 11705 0235 RSI: EE-Listeners letters read.(455 2/27 Zolla-CA)(Harrell-IL)(Thunberg-PA)(Addison-KS)(Krist-VA)
 21615 1410 RSI: EE-OM w/pgm of nx.(333 2/17 Duncan-NC)

S W I T Z E R L A N D Swiss Radio Intl

3985 0700 SRI: EE-OM w/nx on Dateline Thursday.(454 2/25 Spremo-NY)
 6135 0154 SRI: EE-Mx pgm w/some jazz, & ID.(444 2/28 Famularo-NJ)(Hosmer-MI)(Card-RI)(Duncan-NC)(Addison-KS)(Robinson-TN)(Krist-VA)
 7219 0600 Red Cross Radio: EE-Mailbag pgm, talks on Red Cross.(232 2/21 Muzyka-NY)
 9725 0145 SRI: EE-Talk on cable car deaths in Alps.(323 2/13 Wettersten
 11715 0430 SRI: EE-OM w/nx, mx pgm, ID, & freq-sked.(444 2/28 Preston-CA)(Harrell-IL)
 14500 1828 United Nations Radio: FF/RR-IS, OM w/IDs, RR nx. Even though this is a feeder to R.Moscow it is SWBC since it is intended for public use as well.(344 2/18 Stephany-NY) I can't say that I fully agree with you Nolan, but I don't completely disagree with you either. Feeders are officially classified as UTES but I do occasionally include them. tml.....
 15305 0145 SRI: EE-YL w/ID, wld nx, & mx.(444 2/27 Zolla-CA)(Zilmer-NM)
 15325 0100 SRI: SS-Nx pgm to S.Amer, & mx.(242 3/3 Zilmer-NM)
 17830 1545 SRI: EE-Pgm of Swiss nx, ID, & mx pgm.(433 2/8 Famularo-NJ)
 17850 1815 SRI: EE-pgm of nx.(322 3/6 Zilmer-NM)
 21570 1315 SRI: EE-Swiss Shortwave Merry GO Round.(454 2/12 Fraser-MA)
 25780 1322 SRI: EE-SSWGR w/tele interviews.(453 2/12 Hesch-NY)

U N I T E D K I N G D O M BBC

5975 0417 BBC: EE-Wld nx from the News Desk.(1/31 ??????????-?????????)
 6120 0230 BBC: EE-OM w/ID, mx, & cmtry.(444 2/3 Addison-KS)
 6005 0515 BBC: EE-OM w/pgm of Afr nx & mx.(433 3/1 Preston-CA)
 6175 0021 BBC: EE-Nx pgm.(555 2/28 Harris-OH)(444 2/6 Addison-KS)
 7150 0700 BBC: EE-ID, nx pgm.(422 2/14 Leonard-ME)
 9510 0604 BBC: EE-OM & YL w/talk on Popes visit to Guatamala.(343 3/8 Traver-CA)(Somers-CA)
 9515 0145 BBC: EE-Annnc of coming pgms.(555 2/25 Howard-MO)(Addison-KS)
 9590 2310 BBC: EE-Talk on tribal conflict in Zimbabwe.(444 2/5 Harrell)
 11750 1740 BBC: EE-"This Week in Wales"(443 3/3 Thompson-CA)(Van Horn-TX)(Dan Johnson-CA)
 15070 1702 BBC: EE-Pgm of wld nx, ID at 1705.(344 2/28 Leonard-ME)(Kerrigan-IL)(Langlois-GA)
 15390 2130 BBC: EE-"Calling the Falklands"(433 2/8 Hill-SC)
 15400 2100 BBC: EE-Nx in the World Service.(444 2/22 Langlois-GA)
 21470 1415 BBC: EE-OM w/pgm of classical mx.(434 2/17 Duncan-NC)
 21710 1345 BBC: EE-Sandi Jones request show w/response to my request for her picture warned that personality is more important than looks.(343 2/20 Demmitt-PA)

U S S R R.Moscow

4860 0259 Kalinin: EE-IS, mx pgm, (222 2/5 Palmer-WA)
 5920 0434 RM: EE-OM w/classical mx pgm.(333 2/5 Palmer-WA)
 6115 0155 RM: EE-Cmtry on textile industry.(444 2/16 Van Horn-TX)
 7105 0040 RM: EE-OM w/cmtry on how USSR has improved life in Afghanistan (323 2/24 James-NC) It only takes one word to describe that and it is BUNK. tml.....
 7135 0448 RM: EE-ID, & mx pgm.(433 2/23 Leonard-ME)
 7165 0300 RK: EE-Nx pgm,"DX Club" pgm.(433 2/10 Krist-VA)
 7175 0725 RM: EE-Talk on early years of Soviet Union.(434 2/15 Lord-CA)
 7215 0000 RM: EE-"Reviewing Your Letters"(454 2/8 Fraser-MA)
 7400 0510 RM: PO-Pgm of nx.(343 2/18 Ulmer-IA)
 7440 0334 RM: EE-OM & YL w/nx pgm.(333 2/1 Kerrigan-IL)
 9490 0345 R.Megallanes: SS-Talk, on Marx & Marxism.(fair 3/7 Sharpe-CA)
 9860 0405 RM: EE-OM w/nx pgm, YL w/ID.(423 3/7 Berri-CA)
 11700 1451 RM: PT/DR-Nx & mx selections.(444 2/8 Palmer-WA)
 11745 0130 R.Peace & Progress: SS-IS, ID, & talks.(333 2/25 Famularo-NJ)
 11810 0739 RM: EE-OM w/talk about Soviet criminals living in US and bcst on RFE.(222 3/8 Traver-CA)
 11840 1330 RM: EE-Pgm of classical mx, & nx.(433 2/17 Duncan-NC)
 11960 1900 RM: EE-OM-YL w/talk about astronauts.(444 2/21 Langlois-GA)
 12045 1551 RM: RR-Moscows Firts pgm.(333 2/18 Palmer-WA)
 12070 1400 RK: RR-Nx & mx pgms.(435 2/7 Card-RI)

U S S R (continued)

15100 0303 RK: EE-YL w/nx pgm, IDs.(222 2/20 Wood-LA)
 15150 2330 RM: SS-OM-YL w/pgm of nx.(444 2/25 Langlois-GA)
 15235 0059 RK: EE-Radio Sports of USSR.(454 3/2 Trent-AK)
 15240 0030 RK: EE-Nx pgm, pgm called "Heritage"(453 2/25 Fraser-MA)
 15455 2110 RM: EE-Cmtry on US/USSR relations.(323 2/22 Tilley-CO)
 15510 1330 RP&P: EE-Nx pgm, talk on Arms talks.(353 2/11 Krist-VA)
 15455 2030 RM: EE-YL w/a contest.(454 2/26 Johnson-CA)
 17720 2250 RM: EE-Cmtry on Arabic mx.(433 2/27 Tilley-CO)
 17870 0130 ??: RR-OM-YL w/nx pgm.(444 2/28 Valentine-CA)
 21530 0215 RM: EE-YL w/nx pgm & mailbag.(333 2/28 Valentine-CA)

V A T I C A N S T A T E R.Vaticana

6015 0100 RV: EE-Talk on the meaning of Lent.(444 2/20 Muzyka-NY)
 6260 2030 RV: EE-IS, talk on Pope in S.Amer.(253 3/1 Spremo-NY)
 9605 0100 RV: EE-Nx about the Pope.(333 2/15 Harris-OH)
 15120 2210 RV: EE-Talk on Vatican's concern about L.Amer.(333 D'Angelo-PA)
 17865 1500 RV: EE-Review of nx & Popes trip.(343 3/7 Zilmer-NM)
 21730 1400 RV: SS-Spanish pgm to Central Amer.(454 2/23 Fraser-MA)

Y U G O S L A V I A R.Yugoslavia

9620 2215 RY: EE-YL w/nx, talk on upcoming Olympics.(333 2/24 Miller-GA)

Sam Alexander, Joe Addison, Jason Berri, Don Brewer, Peter Card, Jim Cox, Richard D'Angelo, John Demmitt, Gregory Duncan, L. Fama, Lew Forbes, Bob Fraser, Ralph Famularo, Fernando Gonzalez, John Gunter, Mike Harris, Rich Harrell, Ruth Hesch, Elaine Hill, Don Hosmer, Roberta Howard, Tom James, Dan Johnson, Patrick Kerrigan, Kraig Krist, Harold Langlois, Mike Leonard, Scott Lew, Earle Lord, Richard Lucas, Bill Miller, Sandy Manning, Thomas McKeon, William Muzyka, John Miller, Mike Miller, Gerry Mountain, Ron Norman, Bob Palmer, Mario Piatelli, Bill Preston, Richard Ray, Allen Rising, Ivan Robichaud, Betsy Robinson, Thomas Sable, Dan Sampson, John Sanderson, ?? Somers, Bryan Sharpe, Traver Smith, Art Schroeder, Alfred Spremo, Mike Schulsinger, Nolan Stephany, John Sill, ?? Starr, R.Steck, Peggy Thompson, Bob Thunberg, Doug Tilley, John Trent, Doug Ulmer, F.A. Valentine, Phil Wettersten, Gayle Van Horn, B. Wimmers, Doug Wertepny, Steven Wood, Phillip Worob, Rick Zolla, and Bob Zilmer. There you have it, the people who made this months column possible. A big thank you to each and every one of you.

It happens from time to time, I can't read a logging so into the trash can it goes. If you don't see your loggings then chances are that it is in the bottom of the heap. Please print or write very carefully. (clearly)

Another reminder that Vatican State is a separate radio country as defined by the SPEEDX EDXC Country list. If you would like to have one order it from Jack Jones, 304 Robinhood Road, Jackson, MS 39206. Enclose \$1.00

This will be my last Europe column. I'm switching to Asia/Oceania for next month. I know that some of you will already have mailed your loggings for next month before you read this but don't worry I will forward them to the appropriate editor. Just remember to send the A/O loggings to me for the next month.

See you next month in A/O, until then 73s

Jerry



SHORTWAVE

AFRICA



MIKE NIKOLICH • 2137 W. Farwell • Chicago, IL 60645

LIKE THE NEW MASTHEAD?

After doing this column for 18 months, I must admit to tiring a bit of its old masthead. Luckily, a graphic artist friend of mine, Tom Morgan, was able to whip up the new masthead in short order. I think it looks great. Hope you like it.

OOPS DEPT.

Well, so much for me being a junior Sherlock Holmes. It looks like SPEEDX really does have a Hedd Ryeder as a member. Thinking someone might have been playing a trick on me by sending loggings under the moniker of one of my favorite bands, Hedd Rider, I became suspicious and asked the real Hedd Ryeder to write me. He did. I'm sorry for the less than diplomatic way I handled myself Hedd. Your logs will be welcomed with open arms from now on. Tnx.

IS IT SAO VINCENTE OR PRAHIA?

SPEEDXer Stu Hall says, "I had trouble believing my ears on Feb. 13. Paranoia set in: I kept checking and re-checking the WRTVH because I hrd what sounded like H. Voz de Sao Vicente on 3930 kHz. Then, your column came to the rescue. There is was: Phil Dampier's report re reception on 3930 kHz! Your column is an HX for Afro UX." Thanks Stu, but now I've got a question. Most of the reports I see for the Cape Verde station on 7154 indicate that it is Emisora Oficial de Prahia. However, I note your verie from Radio Voz de Sao Vicente lists 7154 kHz! What gives? I have a tape that says "Prahia," and I even had a Portuguese-speaking friend translate the ID for me. Has anyone received a verie for Cape Verde from Prahia on 7154?? nln.

	RADIO VOZ DE S. VICENTE Emisora Unid. Curta CR 1 A C	Relo -42
	Emissores: F.M. — Sintronic - 50 w S.W. — Philips do Brasil 1 kw Freq. — F.M. - 96 Mhz S.W. - 3.960 KHz Em. monogram: Contel — S.W. - 10 Kw - 7154 kHz.	STUART PARKER HALL 14931 ROSIE BOULEVARD #34 PANORAMA CITY CALIFORNIA 91402 U.S.A.
Tel. 2407 2408	Caixa Postal, 29 S. Vicente - Cabo Verde	

SIX PAGES THIS MONTH

Nick Urellinger asked me to fill in with an extra page this month. No problem from this end. We never seem to have enough space. Here is the news!

ALGERIA

19025 0457 RTVA; FF, nice local strings, military ex w/many drums, 4 pips, ID, 2/10 (Ulmer, LA); 0300, FF garage, ID (Hobichaud, NH); 0301, FF, YL ex, only on Israel and Palestine, disco, 1/10 (L. Bucharest on 1/10, 2/20, 2/20 (K. Krist, VA); 0303, LF, world ex, 1/11, 1, welcome by OM to pop ex, into 03 0300 (Harvey, N.)

19215 0300 N. Algiers; EE, ID by OM, "This is N. Algiers," into ex, //to slightly better 13100, 2/20 (Sharp, FL)

ANGOLA

- 9535 1605 R. Nacional de Angola; PP, mx, ads, Afro tribal mx and pop songs, into "Voice of Namibia" px 1630, 2/15 (Witte, CA); 1710, native mx, 2/11 (Valentine, CA); 2245, nx read by OM about Angola, Tanzania and Namibia, ID by OM, "You are tuned to Radio Nacional de Angola, News and Views English Program," also played pop and reggae mx px (Fisher, MA); 1712, Vern/EE, OM tx and Afro mx, 1730, OM/YL FF ID, YL EE px rundown and nx, 2/14 (Thompson, CA); 2215, FF/EE, SS/PP mx & tx in FF, ID, "Ici a Luanda," w/full ID at 2225 into EE, 2/11 (Harvey, PQ); 2129, FF, DJ w/numerous mx selections, short tx, good clear ID in FF at 2200, 2/11 (D'Angelo, PA)
- 11955 0500 R. Nacional de Angola; PP, tx by PP or Vern OM, hostile mentions of U. S. A., mention of SWAPO, 3/6 (Sharp, FL)

ASCENSION ISLAND

- 9600 0622 BBC WS; EE, OM proposing new home defense force for Oritain, 3/8 (Traver, CA)
- 11860 0745 BBC; discussion of political problems in Zimbabwe--they're changing the history books! 3/8 (Traver, CA)
- 15260 0152 OBC; EE, //6175 which was 1-1/2 seconds delayed from xmtn, WS px's, 2/22 (Hosmer, MI); 2322, EE, book reviews and art px, 2/24 (James, NC)

BENIN

- 4870 0500 La Voix de la Revolution; FF, ID, OM, mx, tuned out at 0520 (A. Rising, CA); 0530, FF, fading in and out, could never really hear an ID, just afro drums and occasionally what sounded like AA, 1/22 (Moshier, CA)**Very old log, OM, let's keep 'em a bit more current. mln. 2206, FF/Vern, tx by OM, reception erratic lately at my QTH, 2/22 (Sharp, FL)+2

BURUNDI

- 3300 0305 LV de la Revolution; tent.. w/ OM ID at 0306, indigenous mx and also some pop tunes, OM at 0320, 222, 2/28 (Stu Hall, CA) ** Stu, you listed freq as 3000--I presumed you meant 3300. mln. 0432, tent w/ FF, OM nx, no ID noted, heavy co-channel QRM de UTE, but TGNA absent, 2/5 (Parks, FL)

BOTSWANA

- 4845 0349 R. Botswana; IS until 0358 (cowbells), chickens cackling and cows mooing, NA, EE ID at 0400, OM reading prayer or poetry, Afro pop mx t/out 0446, 1/17 (A. Rising, CA)**Log is very old. No log should be much older than the tenth of the month prior to the deadline date to be included here. Thus, since the deadline for the April column is March 12th, the oldest log in this column should be February 10th. Tnx. mln. 0350, cowbell IS, severe QRM from Colombian on same freq, 3/3 (Sharp, FL)

CAMEROON

- 4000 0426 R. Bafoussam; FF, IS til 0427, s/on amnt and ID, IS again, OM tx til 0429 and into nx, 2/21 (Hosmer, MI); 0428, FF, IS into NA and s/on by OM, 2/23 (Ray, PA); 0540, EE, pops, hilife mx, tough reception 3/5 (Witte, CA)
- 4850 0454 R. Yaounde; Vern, Afro tribal mx, s/off w/out ID, 2/27 (Mike Moore, TX) **Welcome to column, OM. mln. 0508, EE, pop mx w/OM DJ, 2/13 (Berri, CA); 0530, EE, world and Afro nx, sports, ID at 0536, 3/5 (Thunberg, PA); 2328, on late tonite? nx by OM in FF, s/off 2331, 2/20 (Sharp, FL)
- 5010 0520 R. Garoua; EE, mx and unknown lang until 0530 EE nx. "First time I tune in an African..." (Moshier, CA)**Congrats, OM. They're fun to listen to, eh? mln. *0533, EE, "Here is the nx," by OM, "This nx bulletin comes to you in the National Svc of R. Cameroon," 0547*, 2/14 (Krist, VA)
- 9745 1635 R. Cameroon; FF/Afro lang, tribal mx, afro hilife, f/out due to QRM, 2/16 (Witte, CA)

CAPE VERDE

- 7154 *0744 Emisoral Oficial; PP, in instantly at 0744 w/PP mx, no amnt until 0800 ID by OM, ascending/decending tones;

nxcast for locals, back to mx w/long anmts til sudden
0857*, 2/17 (Stephany, NY)

CENTRAL AFRICAN REPUBLIC

5035 0520 LV de CAR; OM tx to drum beats, brief mx, OM w/IO as
"Radio Centrafrique-Bangui," considerable fading, 2/25
(Stu Hall, CA); 2220, FF tx by OII, lcl anmts, 3/6
(Sharp, FL)

CHAD

A station calling itself Chad National Radio, the Voice of Liberation,
has been noted on 6009 kHz. The programs appear to be critical of
Hissene Habre and his government in Ndjamena. Current sked is 1800-
1830 in FF, 1830-1900 in AA, 1900-1930 in Colloquial Arabic, and 1930-
2000 in lcl Vernacular. (BOCMS)

CONGO

15190 2110 RTVC/Brazzaville; FF/Vern, tx by OM, IO, "Ici la Voix de
la Revolution Congolaise," lcl mx, great reception, 3/2
(Sharp, FL); 1905, FF/Vern, IO, nx, comedy routine, 2/11
(H. Tate, WV); 2000-2300* (Wood, Witte, Schulsinger)

EGYPT

9027.5 0407 R. Vatan; Farsi?, tx by OM, hostile mentions of Iran and
the Ayatollah, 3/3 (Sharp, FL)

9475 0200 R. Cairo; EE, station IO, s/on with Egyptian mx, 2/16
(Gayle VanHorn, TX); 0155, 2/21 (B. Miller, CA); 0205,
"Questions and Answers," Egyptian mx, 2/24 (Gunter, NC);
0229-0250, EE (Sanderson, AZ, Forbes, TX)

9805 2120 R. Cairo; EE, Middle East cmty, EZL mx, 2/10 (Thunberg, PA)

12000 0140 R. Cairo; AA, OM w/IO in EE, YL announces between
musical numbers and chanting, 2/11 (Sable, NY); 0245,
EE, OM reading letters, IO as NA Svc of NA, 2/24
(Carlson, WA); 0213, EE, 2/28 (Howard, MO)

12050 1605 R. Cairo; AA, General AA Svc, speech by Mubarak, then YL
w/short features and musical selections, 2/18 (Palmer, WA)

ETHIOPIA

9560t 1500 V. Revolutionary Ethiopia; EE, tx by OM, IO, def.
mention of Ethiopia, deep fades, lousy reception, 2/24
(Sharp, FL)

GABON

4810 2130 Africa #1; FF, nx by OM and correspondents, U.S. pops,
2/15 (Thunberg, PA); 0502, nx, disco mx, FF nx by OM (G.
VanHorn, TX, Sharp, FL); 0550, FF, pop mx, multiple IOs
by YL, very strong signal (Evans, TN, Worob, TX); 2237,
FF, wierd px! YL DJ sounded high on something.
"Sophisticated Lady" played four times during a 20-min
period w/wierd sounding anmts, 2/22 (Stephany, NY)

11755 0640 AND; FF, mx, tx by OM, then more mx, 2/21 (Miller, CA)

11940 0528 AND; FF, cuckoo clock IS, YL and OM nx and tx,
electronic mx between items, U.S. "swing" mx,
westminster 3/4 hour chimes at 0545, 3/3 (Preston, CA);
1750, FF, pop mx til 1800 IO, world nx, 2/21 (Hosmer,
MI); 2113, FF, OM tx over Afro tune, drums, sirens, lots
of noise and excitement, 2/22 (Lucas, CA)+2

15200 0724 AND; FF, popular mx, IO's as "Radio #1" by OM and YL,
0752, nx by OM, 3/11 (McKeon, IN)

GHANA

4915 0550 GBC-1; EE/Vern, drum IS into EE nx at 0600, IO as "GOC,
Accra," 3/5 (Rising, CA); 0601, EE, YL w/nx on Ghana,
into lang at 0614, 2/19 (G. VanHorn, TX); 2019, Afro
chants and calypso mx, OM in Vern w/IO 3/6 (Sharp, FL);
2152, nx, GBC IO, choral hymn, AA, 2205*, 2/14 (Famularo, NJ)

GUINEA

15310t 0406 LV de al Revolution; FF, EE IOs not clear enough for
intelligibility, same px on 4910, 7125, 9650, later into
Afro tribal mx, 3/6 (Witte, CA); 1803, FF, nx by OM,
tent. IO at 1812, into chants, 3/6 (Sharp, FL)

IVORY COAST

4940 0624 R. Abidjan; FF, OM/YL, Afro mx, no IO but many mentions
of Abidjan, //7215, 3/1 (A. Rising, CA); 2200, FF, tx by
OM, possible nx, IO as "Ici Abidjan," 3/6 (Sharp, FL)

7215 0644 RTVI; tx by OM, //4940, several IOs, 2/18 (Ulmer, LA);
2100, FF, EE/FF/SS mx, long OM tx (Famularo, NJ)

LESOTHO

4800 *0400 R. Lesotho; Sesotho, s/on w/NA, OM ID and freqs, relg. song and tx, signal getting better this month, 2/21 (Hosmer, MI); 0402, OM w/ID and nx, 2/18 (Sharp, FL)

LIBERIA

ELBC announced on 2/14 that it could now be heard in all parts of Liberia on a regular basis. The director general said that the nationwide svc was the result of gradual assimilation of technology and hard work since the establishment of ELBC in 1960. It operates from morning until midnight on the shortwave bands. In the daytime, 6090 kHz is used (see below). For evening reception, 3255 is used. (BBCMS)

4765 0728 ELWA; end of sermon by OM, ID, "You are tuned to ELWA," signal began to fade, 2/24 (Sharp, FL)
 6035 0301 VoA/Monrovia; EE nx, "African Safari," 2/22 (Sampson, WI)
 6090 0740 ELBC; Vern/EE, OM w/IDs for ELBC many times, ads for pocket-sized radios (\$10), into religion, 2/18 (Witte, CA)**Interesting log, Marge. mln.
 11715 1735 VoA; PP, 2 OMs discussing what U.S. nrxpapers are saying about the S. Africa situation, 2/6 (Palmer, WA)
 11915 0748 VoA; FF, OM/YL w/nx in FF, story about Mondale running for president, 3/8 (Traver, CA)
 15240 0400 VoA; EE, nx, Carter remarks on Israel, 2/11 (Krist, VA)
 15600 1802 VoA; EE, nx, excerpt from a Bush speech, 2/6 (Palmer, WA) 2232, "Jazz Hour," //17870, 2/17 (Lucas, CA)

LIBYA

11815 2230 R. Jamahiriya; EE, Western mx, 2232, "Teachings of the Green Book," 2/26 (Tilley, CO); 2235-2235, "Islam and Arab in the West," nx, lcl mx (Harrell, IL, Evans, TN)+8 SPLAJBC; AA, YLs rambling on, OM w/ID, 2/24 (Ulmer, LA)

KENYA

4934 0427 V. Kenya; Vern, long tx by OM w/mention of Nairobi, YL anmt, into Afro mx, 2/10 (S. Harvey, PQ)

MADAGASCAR

15220 2035 R. Nederland; EE, nx and cmty to "Media Network" at 2047 (Lucas, CA)
 15560 2033 RN; EE, world nx, report on resignation of Sharon in Israel, 2/11 (S. Harvey, PQ)
 21480 *1429 RN; EE, nx, "Newline--the current affairs px," "SW Feedback" px, 2/19 (K. Krist, VA)

MALI

4783 0555 R. Mali; FF, *0555 w/native harp IS, NA at 0558, ID by OM 0600, into mx, faded by 0610, 2/23 (Evans, TN)
 5995 2230 RM; FF, N. African flute mx, ID by OM, 4783 not audible tonite, 2/22 (Sharp, FL)
 7110 0711 RM; FF, march mx til 0720, ID, tx by OM (nx???) //7271, 2/13 (Hensley, TX)

MAURITANIA

4845t 0620 R. Mauritania; AA, chants by OM, poss. ID, then tx in AA (news??), 2/19 (G. VanHorn, TX); 0605, AA/FF, string and drum mx, chants, OM relg tx in AA, ID in FF, then nx, 2/19 (M. Witte, CA); 2357, AA, chants by male, ID, TC, HA to 0000:34*, 2/23 (Sharp, FL)

MOZAMBIQUE

3210 0415 R. Mocambique; PP, OM w/tx between afro + pop mx, 2/13 (J. Berri, CA)
 3370 0350 RM/Biera Provincial Stn; PP, Afro mx, tx in PP by OM, more mx, more tx by OM, no ID so "tent" 2/10 (Harvey, PQ)
 9620 1545 RM; PP/EE; Afro hilife mx, nasty het, EE tx, afro and orchestral mx after 1710! 2/17 (M. Witte, CA)
 15297 0447 RM; PP, OM ID, mention of Maputo, into lcl pops, 3/2 (Sharp, FL)

NAMIBIA

3270 0046 SWABC/R. SW Africa; Afrik/EE, usual blend of mx, no ID noted until 0100, "You are tuned to the all-nite svc of R. SWA," 3/2 (Sharp, FL)**There is an excellent article on Namibia's Esthoso Game Reserve in the March National Geographic. Sensational photography...mln. 0444, mx and tx px, faded out prior to ID, 3/2 (Manning, TX)+1
 4965 0505 R. SWA; EE, OM w/world nx from SABC, 2/16 (Hotaling,

NV); 0533, GG, OM tx on Afro countries and development, 3/5 (Witte, CA)

NIGER

5020 0530 ORTN; FF, end of NA, OM s/on anmts, into Koran, 3/6 (Sharp, FL)

NIGERIA

The Nigerian news agency NAN reported on Feb. 16th that a fire at the studios of the FRC in Kaduna had been successfully contained. (DBCHS)

4770 0510 FRCN/Kaduna; EE, U.S. disco mx, ID, nx of OPEC, 2/26 (Thunberg, PA); 0459, EE, pop mx, ID, "6:00 in Nigeria," by YL, into relig tx, 2/18 (Paul, AZ); 0435, EE, disco mx, YL id and TC, into more mx, 2/23 (Sharp, FL); 0627, nx of Kaduna Int'l Trade Fair, 2/18 (Ulmer, LA)

6090 0720 FRCN/Kaduna; EE, OM w/nx bulletin on Liberia, ID at 0730, 2/22 (J. Berri, CA)**Are you positive this wasn't ELBC, OM?

7255 0459 Voice of Nigeria; EE, relig song, "The Week in Africa," world nx, editorial opinion, 2/13 (Robichaud, MD); 0620, FF, ID during apparent mx px hosted by YL, 2/18 (Ulmer)

11770 1700 VoN; EE, OM, ID and mx, 2/22 (F. Valentine, CA); 1730, OM tx but not very readable, Nigerian nx, 3/5 (Dair, CA) 1735, EE, OM w/world nx, cmtly on nuclear arms. 2/17 (Thompson, CA); 1725, 2/18 (Lucas, CA, Lord, CA)

15120 0732 VoN; EE nx w/IDs, 2/18 (Ulmer, LA); 1450, EE, O-Seas svc to Australia, YL, afro mx, 3/2 (Famularo, NJ); 1800, EE, nx abt Egypt and Sudan, 2/26 (Wettersten, OH); 2155, EE, musical px, 2200*, 2/15 (Schroeder, WI); 2139, EE, nx, ID, tx about water resources, ID, nx, 2/25 (Spremo, NY)

15185 0735 VoN; EE, nxcast, not //15120, 2/18 (Ulmer, LA)

17800 1804 VoN; EE, ID, cmtly, 2/14 (Hensley, TX)

RWANDA

21600 2145 OM Relay; GG, mx, ID, 2/12 (Hensley, TX)**More details, please...mln.

SENEGAL

4890 2315 R. Senegal; Vern, AA-type chants, OM tx, 3/1 (Famularo, NJ) 0050, FF, OM DJ w/rock mx, ID as "Radio Nationale emittant de Dakar," 0103*, 2/27 (Parks, FL)

SEYCHELLES

11895 1545 FEBA; EE, bible lesson by OM, mx, ID by YL as "Fee-Bah," heavy QRM de KY01, 2/25 (V. Carlson, WA)

15200 0420 FEBA; EE, nx by OM, followed by discussion px w/mx, "Great Outreach," 0500*, 2/20 (Ryeder, FL)**Welcome to the column, Redd, sorry again about last month. I hope it is okay to remove my foot from my mouth! mln.

SOMALIA

Radio Mogadishu announced Feb. 9 that external service programs would now be heard on 6095 kHz instead of 6790 kHz. (DBCHS)

6095 0421 R. Mogadishu; Vern, Koran chants by OM w/ID, nothing noted on 6790, 3/3 (Sharp, FL)

6790 0350 RM; mx at 0352 to about 0358 ID, cmtly by OM next hour, 2/25 (Jones, TX); 0338, 2/22, ID as "R. Mogadishu," first time here for me! (Evans, TN)**Congrats, OH! mln. 0325, OM, tx, brief AA mx, 0331 ID (Famularo, NJ)

SOUTH AFRICA

Here is a summary of what's been hrd: 3230 (0403); 3250 (0345); 4835 (0400-0700); 4880 (0347-0430); 4990 (0300-0430); 7270 (0315-0405); 5980 (0400, *2100); 9615 (0200-0300); 11730 (0200, 2100); 11900 (2100, *0157, 1530); 15220 (0528); 15260 (0210); 15325 (0200); 17745 (1845); 25790 (1355-1500).

SWAZILAND

3275 0257 TWR; IS w/OM, "This is TWR, Swaziland," to px of tx and relig, 2/26--also noted 3200 w/diff. px (S. Hall, CA)

4785 0428 TWR; EE, IS and OM w/ID, 0430* religious px in EE, 2/13 (J. Berri, CA)**Believe freq is 4790. mln.

7295 0359 TWR; GG, chime IS, OM s/on, ID, into relig, 2/19 (Sharp, FL) 0427, GG, 0427, IS G s/off, 2/8 (Worob, TX)

9730 0455 TWR; EE "Back to the Bible," ID by YL at 0500, address

given, began to fade at 0515, 2/22 (Evans, TN); 0455, EE, Y1 ID, relig tx, 2/13 (Ray, PA); 0500, EE, 2/21 (Gunter, NC); 0530, sermon, 353, 3/13 (Munster, GA)

TOGO

3222 2257 RTVT/Lama-Kara; FF/EE, tx by OM in FF, ID at 2300 into brief EE nx, 2304*, 1/20 (S. Harvey, PQ)**Old log, but interesting nonetheless. EE nxcast! mln.

5047 2304 RT; FF, nx by OM, brief mx, into more OM tx, 2/20 (Sharp, FL); 0556, FF, flute and hilife mx, weak, 2/18 (Ulmer, LA)

TRANSKEI

9765 0635 Capitol Radio; EE, rock mx, ads for "Breakfast Medicine," nx, EE YL, OM IS QRM at 0729, 2/20 (Witte, CA)**This one is not easy in Chicago. mln.

TUNISIA

7225 0430 RTVT; AA, ID by OM, into chants past 0445, 3/3(Sharp,FL)

UGANDA

5026 2231 R. Uganda; tx by OM, nice afro mx, no positive ID, so label "tent" 3/6 (Sharp, FL)**rather late for Uganda.mln 0410, EE, YL tx til 0412, accordian mx, time beeps, ID by OM and nx, 2/21 (Hosmer, MI); 0427, Swahili, many mentions of Uganda, 2/25 (Ulmer, LA)

UPPER VOLTA

4814t 0601 RTVV; FF, tx by OM, no ID, only mention of Ouagadougou, positively not AND, 3/6 (Sharp, FL); tent at *0530 w/balafon IS, NA, s/on ID, afro mx, 2/10 (Famularo, NJ)

ZAIRE

15245 2130 LV du Zaire; FF, first oted 2/28 at 0200 w/poor signals, today w/nice signals, ID as "LV du Zaire," recheck at 0800 revealed this w/353 SID, suspect 24 hour operation, 3/2 (Sharp, FL); 2120, FF, interesting Latin-Afro mx, 2205, ID, nx, interview, 3/4 (Famularo, NJ, Ulmer, LA)

ZAMBIA

The ZDS quoted 2/14 that radio reception had remained poor, despite the commissioning of a 44-million kwacha mass media complex in Lusaka, because there were no new xmtrs. Whereas ZDS now had the most modern and sophisticated equipment, it was not compatible with existing xmtrs. (BBCIS) **See Sharp's comments below..mln.

4911 0410 ZDS/R. Zambia; Vern, excited OM tx, ID as "R. Zambia," mentions of Lusaka, signal strength makes me believe improvements have been made on xmtr, 2/18 (Sharp, FL); 0418, Vern, news of Africa, then Afro mx, 2/19 (C. Van Horn, TX); tent at 0435 w/px in FF, no fish eagle IS hrd, 3/5 (Witte, CA); 0411, ID, 2/8 (Nising, CA); 0440, in EE, "One Zambia, one nation," tx, baby crying, rock/afro mx, tx w/mentions of Zambia in Vern, 1/29 (Moore, TX)

ZIMBAGWE

3396 0400 ZBC/Voice of Zimbabwe; EE, YL ID as "This is the Voice of Zimbabwe," lcl TC and nx, QRM de UNID latin, 3/5 (David Sharp, FL)

ODDS AND ENDS

We close our largest column yet with this little ditty from the March, 1983, issue of GEO. "One out of five countries found itself with a new leader in 1982. Here are the African nations that changed leaders.

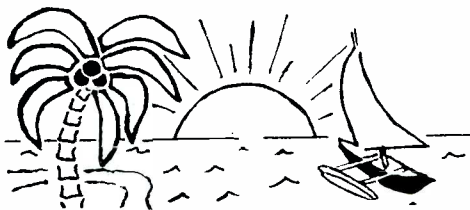
CHAD: Former defense minister Hissen Habre siezed power in June sending President Goukouni Oueddi into exile. COMOROS: Foreign Minister Ali Mroudjae was elevated to the position of prime minister in a cabinet shuffle in March. MAURITIUS: The labor party, which has ruled this island republic since it gained independence 14 years ago, was routed in elections by the Mauritian Militant Movement. Hindu lawyer Aneerood Jugnauth is the new prime minister. SWAZILAND: King Sobhuza II, known as the Lion of Swaziland and rumored to have father 600 children, died in August after 82 years of rule. His successor has still not been named. (Via GEO Magazine). 73 & CUN30. Mike.

ASIA-OCEANIA

NEW EDITOR!!!

TERRY LINDLEY
Rt 15 Box 1098
Birmingham, AL 35224

DEADLINE: 12th of each month
FREQUENCIES IN KILOHERTZ
TIMES ARE IN GMT
0000=sign on 0000=sign off



No this isn't Terry Lindley, or even Tom Scott...again this is your publisher John Trautschold coming up with excuses for again not having an Asia/Oceania column in an issue of SPEEDX. We at publishing HQ's are very sorry for the problems that have occurred over the past few months with this column, but it looks now as though they have been taken care of. Beginning with the next issue of SPEEDX, Terry Lindley, our Europe editor will be taking over the A/O section. Terry has been doing an excellent job with Europe, and Rick Drollinger, our Managing Editor, and myself felt that Terry would do equally as well with A/O. Terry had been asking for a new column for a while now, and he patiently waited until this one opened up, and for that we thank him. We know you will support Terry as much as you have supported Tom over the past several years.

We also want to thank Tom Scott for the years of service he's given to SPEEDX, and wish him well with whatever tasks he presents for himself in the future.

Those of you that sent in loggings for this month will have to wait a month to see them in print. Tom sent the loggings on to us but they arrived too late for inclusion in this issue. They are being passed on to Terry for inclusion in next months A/O section. Good luck Terry! (hi)

Naturally, since Terry is moving up to A/O, we need someone to fill in his Europe column. Mark Koukol who has been our Contributors List editor for the past year has accepted that position, again beginning with next months issue. Again, Mark took on the Contributors List as an interim column until a regular logging column opened up, and he too has waited with great patience for that to occur. We thank Mark for that and wish him the best of luck with Europe.

The Contributors List beginning with next months issue will be computerised! As you know, some time ago we at publishing HQs computerised the mailing list which has saved SPEEDX some money with our labels, etc. It has been working quite well, and we are now at the point of implementing stage two of our computerization. This being the contributors list and the contributors file information. Vera Crable has been our Membership Chairman for many many years now, and we have been working at automating that dreary task and we are just about ready. Soon your credit points will be on a computer file, and this too should ease some of the paper work that has been done in the past. We hope it all works out ok! Again, it will take a few months to entirely implement all of this, but the effort should be well worth it.

Finally, I would like to thank all of you who volunteered to do a column, from our requests last month. Rick and I will be going over all of the replies, and you should hear something from us in the future. As more columns begin to open up, we will rely on those responses received in picking out new editors and staffers. Again, thanks for the response, and you will hear from us eventually. However, we aren't always the quickest do to other responsibilities, but we will respond eventually. Thanks again.



ANARC 1983

Washington Area DX Association
(WADXA)

Association of North American
Radio Clubs

606 Forest Glen
Silver Spring, Maryland 20901

ANARC 1983 CONVENTION

July 15-17, 1983
Rosslyn Westpark Hotel
Arlington, Virginia

PRELIMINARY PROGRAM

Friday - July 15

9:00 - 5:00PM	Registration
9:00 - 12:00NOON	Exhibit set-up
12:00 - 5:00PM	Equipment and club exhibits and displays
3:30 - 5:00PM	ANARC representatives meeting
5:00 - 5:30PM	Official convention opening
5:30 - 7:00PM	Dinner on your own
7:00 - 9:00PM	Wine and cheese reception

Saturday - July 16

8:00 - 9:00AM	Registration
9:00 - 10:00AM	Seminar one--PUBLICIZING RADIO LISTENING-- Who should do it and how much should they do? Hear what broadcasters, clubs and equipment manufacturers think
10:15 - 11:00AM	Seminar two--TRENDS IN BROADCASTING, EQUIPMENT AND LISTENING--Find out where the experts think the hobby is headed
11:15 - 12:15PM	Seminar three--COMPUTERS IN THE RADIO HOBBY-- Learn what you need to know about computers and how they can make your listening more interesting
12:15 - 1:30PM	Lunch on your own
1:30 - 2:30PM	Seminar four--CONCURRENT SESSIONS ON LW/MW, FM/TV, PSB/UTE and SW--Free-wheeling dis- cussions of various aspects of the hobby with noted DXers as discussion leaders.
2:45 - 3:45PM	Seminar five--MEET YOUR FAVORITE BROADCASTER-- An informal opportunity to visit, get auto- graphs and take pictures
4:00 - 4:15PM	Presentation of "Review of International Broadcasting" awards
4:15 - 5:30PM	Seminar six--BROADCASTER'S FORUM--A chance to question broadcasters about their stations, their programs or about anything else on your mind
5:30 - 7:00PM	Free time
7:00 - 7:30PM	Cash bar
7:30PM	Annual banquet/presentation of ANARC awards

Sunday - July 17

9:00 - 11:30AM	ANARC annual general meeting
11:30 - 1:00PM	Lunch on your own
1:00 - 1:15PM	Presentation of KAP awards
1:15 - 3:30PM	HAP auction
3:30PM	Closing ceremonies

OFFICIAL REGISTRATION FORM for the 1983 ANARC CONVENTION, to be held July 15-16-17 at the Rosslyn Westpark Hotel, 1900 N. Ft. Myer Dr., Arlington, VA



ANARC 1983

Washington Area DX Association (WADXA)

Association of North American Radio Clubs

606 Forest Glen
Silver Spring, Maryland 20901

NAME _____

ADDRESS _____

Date arriving in Washington: _____

Date leaving Washington: _____ Telephones/home & work _____

HOTEL ACCOMMODATION

_____ Single room for one person (your room deposit is \$45.00).

_____ I have arranged to share a room with the following person(s):

1. _____ 2. _____

Your room deposit is \$22.50 if sharing with one person, \$17.00 if sharing with two persons; be sure each roommate sends a registration form, room deposit, and convention fee - this may be done separately or in the same envelope. Room cost for three people is \$51.00, \$6.00 for an additional cot in the same room.

_____ I would like the convention committee to arrange roommates for me.

Your room deposit is \$45.00, although your nightly room cost may be lower; in that case, the remainder will be credited to your second night's stay. We anticipate no difficulties in finding roommates; however, no guarantees can be made.

_____ I require special accommodations (such as a suite or extra room, etc.).

In this case, please make your own reservations with the Rosslyn Westpark Hotel, telephone toll-free 800-528-1234. Be sure to mention to the hotel you are attending the WADXA/ANARC 1983 Convention. Send no room deposit to WADXA, but do send this registration form and convention fee(s).

_____ I am attending the convention but not staying at the Rosslyn Westpark Hotel.

Send registration form and convention fee only.

CONVENTION FEE: \$30.00 per person, to be sent with this registration form and room deposit. The \$30.00 includes the Saturday evening banquet and all convention activities. Please ensure that you have filled in all parts of this form, and have enclosed your payment. Reserved hotel accommodations will be arranged on a first come, first served basis, so send in your registration form as early as possible to avoid disappointment. No refunds available after July 1. If you must change your hotel reservations--do not call Rosslyn Westpark--call WADXA at 301-593-4411.

See you at ANARC 1983!

Payment should be made by check or money order in U.S. funds, payable to WADXA/ANARC 1983 Convention. If you live outside the United States, use some form of international money order, available at your bank or post office.

Room deposit \$ _____

Convention fee \$ _____

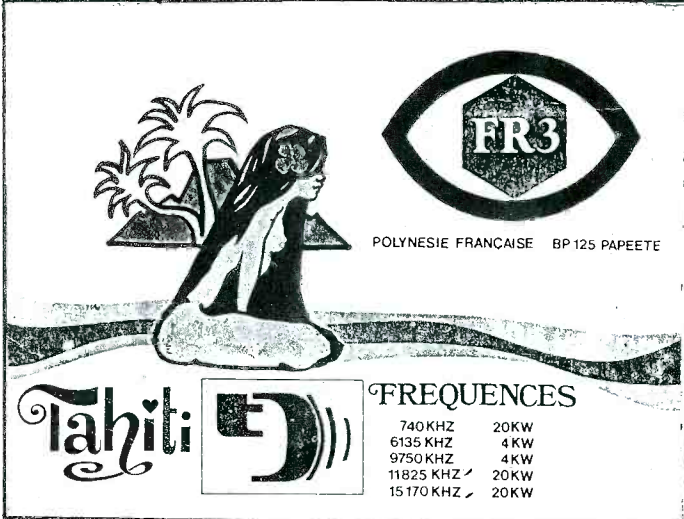
TOTAL \$ _____

SPECIAL NOTICE: All registrations postmarked by June 1 will be placed in a drawing for a record set of Canadian music (donated to this convention by RCI) and awarded to lucky registrants at the convention. So get this form and money in to WADXA pronto!


How did you first hear about the convention?

What DX clubs are you a member of?

Oceania



POLYNESIE FRANÇAISE BP 125 PAPEETE

Tahiti 

FREQUENCES

740 KHZ	20KW
6135 KHZ	4 KW
9750 KHZ	4 KW
11825 KHZ	20KW
15170 KHZ	20KW

South America



RADIO SRS

SOUTH AMERICA

UTILITY SCENE

EDITOR: MIKE CHABAČ
6171 E. Bellvue #19
Tucson, AZ 85712

The UTILITY SCENE is arranged as "two continuous side by side vertical columns." You read down this left hand column to the last page; return to the first page, then down the right hand column.....

Hello Gang... New Publication "GENERAL FREQUENCY & CALL SIGN LIST"(G)

by Joerg Klingenfuss, a well known European utility monitor and publisher.... ALL English text, plain soft cover, 126 pages, 8,25 x 11.75 inches in size..... Contents:

- 1) Stations in frequency order (3 to 27 MHz)... 2) Abbreviations List
- 3) Stations in order by Callsign (alphabetical)... 4) List of callsigns/ID/freqs, without fully known data.... 5) Commercial Aero freq/area list.... 6) Maritime Mobile by freq/band allocations.... 7) alphabetical List of Int'l Callsigns... 8) ITU Regulations Article 25- RR2255-2154... (defines xmsn types, usage)... 9) 3-world Maps showing, VOLMET, MWAARA & RWAA aero areas.... The GFCSL is similar to the Gifler CFL, but with a broader coverage - voice, CW, RTTY & Fax Not quite as extensive, (freq coverage) as the CFL, but its European slant contains data on stations not reported in the CFL.... Overall, an excellent well balanced publication. Anyone who has the CFL should acquire the GFCSL, as it complements, cross references & presents other essential information. With both, the active ute will have a 1st class reference library. Price (including Airmail delivery) - 40.00 Deutsche Marks (via Int'l money order in the equivalent amount) Mail to:

Mr. Joerg Klingenfuss
Panoramastrasse 81
Hagelloch
D-7400 Tuebingen 7
Federal Republic of Germany

North American utes, see the last ute page for late breaking information on availability of Mr. Klingenfuss's publications!!!

New Publication "GUIDE TO RTTY FREQUENCIES" by Oliver Ferrrell of Gilfer Associates. (reviewed pre-production copy, no covers & unbound) 192 pages, 6x9 inches size (same as CFL)... Revised and greatly expanded update of Gilfer's previous RTTY book. Contains... 1) Guide to RTTY Signals... 2) RTTY stations, by freq (4-27 MHz)... 3) RTTY Callsign List (alphabetical by call)... 4) Z Code... 5) Guide to Russian Cyrillic... 6) Abbreviations List.... The Gilfer RTTY guidebook is a first rate publication, and a must reference book for the avid RTTY monitor.... Price: \$9.95 (US, Canada & Mexico) or \$12.00 via UPS \$14.00 - Airmail outside of North America

Should be available as of April 83.... Address:

AM RTTY USB ISB
LSB CW FAX A3H

DEADLINE:
12th Day of
the Month

XMSN MODES; A-am... C-continuous wave(CW)... F-facsimile... I-independent side band... L-lower side band... M-modulated CW... R-radioteletype... S-single side band... U-upper side band... 3-A3H...

COLUMN
COVERAGE
0-30 MHz
H.F.

6506.4 U	2346	NYOB- CCC CAPE HENLOPEN wkg CG Boston (GRW-OH)
6506.4 U	0811	NBVG- CCC UNIMAK wkg CG Miami (LK-NY)
6506.4 U	0636	WTFB- NOAA TOWNSEND CROWELL wkg CG San Fran. (LK-NY)
6506.4 U	0456	NRKN- CCC BEAR wkg CG San Francisco (LK-NY)
6521.9 U	1255	m/v CHINA SEAL wkg KLS Houston TX (JDM-WN)
6780 L	1427	NXAG- USS IWO JIMA wkg Charleston Test Control (RAL-OH)
8226 U	0508	PJAB- VOLLENDAM c/g WOO (RMS-NY)
8241.5 U	2326	NRQM- CCC SWEETGUM wkg CG Portsmouth (TES-CA)
8241.5 U	0010	WVVP- NOAA ALBATROSS 4 wkg CG Portsmouth (TES-CA)
8291.1 U	2102	KRFC- SANTA LUCIA wkg WRV-364 (RMS-NY)
8358a C	0348	LOAI- ALMIBANTE IRIZAR (ARGN Navy) c/g LPD (RMA-IA)
8386a C	0237	YTVB- (name unkn) c/g IUR Rijeka MARCO (RMA-IA)
8765.4 U	1415	NYVB- CG CAPE STARR wkg CG Portsmouth (JDM-WN)
8796.4 U	1517	m/v GULF MAJESTY p/p via WOO (JDM-WN)
8811.9 U	1320	m/v PACIFIC CRUISER p/p via WOM (JDM-WN)
8984 U	0831	KIYO- EXXON JAMESTOWN wkg unid USCG cutter-a/c (COP-00)
12333.1 U	2042	m/v PHILLIPS ENTERPRISE c/g Berne MARCO (RMS-NY)
12336 U	0009	3FED- (name unkn) c/g Barraquilla MARCO (JRJ-MS)
12361 U	1926	KFOX- AMERICAN ARGOSY wkg WOO (RMS-NY)
12429.2 U	1524	WTBI- AMERICAN AQUARIUS wkg KWS-643 (JDM-WN)
13113.2 U	1745	WYBS- NOAA SURVEYOR WKG CG Honolulu (HCB-WA)
14442 U	2229	NNNØCYM- USS PARRACUT p/p via NNNØYBU (GRW-OH)
14467 U	2219	NNNØCZM- (name unkn) p/p via NNNØJSD (GRW-OH)
14477 U	2218	NNNØCXO- USNS HARKNESS p/p via NNNØJSD (GRW-OH)
14477 U	2235	NNNØGSS- USS JESSE L. BROWN p/p via NNNØNIG (GRW-OH)
14478 U	1950	NNNØVCW- USS SAMUEL COMPERS p/p via NNNØKRW (BCW-VA)
14934 U	1911	NNNØVCU- USS SAGINAW p/p via NNNØVKC (GRW-WA)
16487.9 U	1525	GGBM- ISLAND PRINCESS p/p via WOM (BCW-VA)
16587.1 U	1950	WAGY- THE COLT LEADER wkg KIT Cedar Rapids (HCB-WA)
16587.1 U	1822	WSVB- SEALAND PIONEER c/g WRF (RMS-NY)
16590.2 U	1934	WESW- MORAMAC SEA wkg KZA-950 (JCH-MD)
22088 U	1800	WHCH- SANTA MERCEDES wkg KOZ (JEB-CA)
**** AIRCRAFT ****		
3123 U	0716	CG 1454 wkg CG San Francisco (BLA-PA)
4746 U	0412	Ascot 4502 (RAF) wkg LaJes Aways (RMS-NY)
5574 U	var.	MAC 50500/50203 wkg San Fran Aero (HCB-WA) (JDM-WN)

Gilfer Associates, Inc.
 P.O. Box 239
 52 Park Avenue
 Park Ridge, NJ 07656

*** USCG Search & Rescue Operation on 20 meter Amateur band....
 Carl Huffaker (CH-MEX) monitored the vessel QUEBEN ANN, adrift and
 taking water, north of Cuba. Freq was 14,313 kHz USB, SS & EE voice.
 Between 2000 & 0213 GMT... In on the SAR was: USCG Radio Miami,
 CG 2111, CGC Unimak, vessel Reliance, COLIC- Cuban CG, HAM stations
 HR1BL, KH6ME, FCBHQ.... Unknown how the SAR worked out.....
This illustrates that the USCG will work whatever frequency is
 available to the stricken vessel, to conduct a SAR operation.....

**** NORTH AMERICA ****

AK... 8828.0 U 0527 Anchorage Aero - VOLMET b/c (JCH-MD)
 10048 U 0400 Anchorage Aero wkg North West 7 (CGP-CO)
 11176 U 1710 AKA5- Elmendorf Aways wkg Kilo Hotel 408 (CCP-CO)
 BER.: 12709 C 2025 VFT- C&W Hamilton - V mkr (JEB-CA)
 CAN.: 2598 U var. VCS- Halifax CCR - NTM/NTS b/c (RMS-NY) (MT-ME)
 3288 C 0630 CKN- CANMILL Vancouver - NAMS b/c (JEB-CA)
 6420 C 0624 CFH- CANMILL Halifax - V mkr (RNP-CO)
 6604 U var. VFG- Gander Aero- VOLMET (RMA-IA) (DKB-MA) (KWK-VA)
 6753 U 0220 VXA- CANMILL Edmonton - WX b/c (JDM-MN)
 7335 A var. CHU- Ottawa SFTS - EE/FF (JHD-PA) (KWK-VA)
 8696 C 0353 CFH- CANMILL Halifax - V mkr (RR-MA)
 8891 U 0253 VFF- Frobisher Bay Aero wkg ?Alfa Mike? (CC-DE)
 10051 U var. VFG- Gander Aero- VOLMET (CCP-CO) (JDM-MN)
 11236 U 2019 CJX- CANMILL St. Johns wkg 6 Mike Delta (JCH-MD)
 11293 U var. VYA- CANMILL Edmonton wkg a/c 6858/505 (JCH-MD) (HCB)
 12125 C 0100 CKN- Vancouver CGR. V mkr (HDT-WV)
 12726 C 2050 CFH- CANMILL Halifax wkg C2FX (JEB-CA)
 13270 U var. VFG- Gander Aero-VOLMET (HCB-WA) (MH-OH)
 15035 U 2331 CJX- CANMILL St. Johns - WX (BEO-NY)
 15920 C 2150 CFH- CANMILL Halifax - NAMS mkr (SN-TX)
 17995 U 1805 CHR- CANMILL Trenton wkg a/c 910 (HCB-WA)
 22368 C 2251 VAI- Vancouver CGR wkg UHPB (TML-AL)
 8470 C 0125 XFL- Manzanillo MARCO - CQ mkr (HDT-WV)
 MEX.: 12829.5 C var. XFM- Manzanillo MARCO - CQ mkr (HDT-WV) (LK-NY) (JDM)
 2670 U var. NFM- CG Boston- WX/NTM (TES-GA) (RMS-NY) (LK-NY)
 USA.: 2870 U 0207 NWC11- CG Humboldt Bay CA- WX/NTM (RH-WO)
 2670 U 0635 WNY41- CG Shimnecook NY - NTM b/c (TES-GA)
 2670 U 0236 WNY70- CG Chincoteague VA - NTM b/c (RMS-NY)
 4293 U 0241 WOM- Ft. Lauderdale MARCO wkg Mardi Gras (RH-WO)
 5550 U 0751 KEA5- New York Aero wkg American 667 (RMA-IA)

5574 U 1250 EMPRESS 304 wkg Honolulu Aero (JDM-MN)
 5598 U 0626 SPEDUBIRD 262 wkg New York Aero (RMS-NY)
 5616 U 0330 AIR PORTUGAL 311 wkg San Juan Aero (JDM-MN)
 5628 U 1303 CLIPPER 800/NORTHWEST 33 wkg Anchorage Aero (JDM-MN)
 5649 U 0431 ALITALIA 601 wkg Gander Aero (RAC-VT)
 5691 U 0036 GERMAN AIR FORCE 1004 wkg "99" (JOH-MD)
 5696 U var. CG 1485 wkg CG New Orleans (JDM-MN) (CHS-IL) (TES-GA)
 5696 U var. CG 2111, CG 2112 wkg CG Miami (BCW-VA) (TES-CA)
 5696 U var. CG 1434, 1422, 1347 wkg MN (JDM-MN) (LK-NY)
 5696 U 0446 CG 1477 wkg CG New Orleans (LK-NY)
 5696 U 0238 CG 2123 wkg CG San Francisco (CG-DE)
 5777 U var. MAC 40616/EASTERN 976 wkg N.Y. Aero (LK-NY) (JDM-MN)
 6577 U var. BOLIVIAN 0201/CAPITAL 216 wkg San Juan (HCB-WA) (JDM-MN)
 8843 U var. QUANTAS 1/AMERICAN 160 wkg Honolulu Aero (P-CO)
 8903 U 0036 ETH 236 wkg Kano Aero (CG-DE)
 8984 U var. CG 1483, 1432, 1435, 1468, 2120, 2111, 2115 wkg CG Miami (TES-GA)
 8984 U 0710 CG 1454 wkg CG San Francisco (BLA-PA)
 8984 U 2130 CG 1348 wkg CG New Orleans (JDM-MN)
 8984 U 1925 CG 1494 wkg CG Portsmouth (TES-GA)
 8993 U var. MAC 00453/80224 wkg MacDill Aways (RNP-CO) (RMS-NY)
 8993 U 0835 MAC 70165 P/P via Albrook Aways (LK-NY)
 8997 U 0733 XRAY DELTA 01 wkg Christchurch (BLA-PA)
 11176 U var. MAC 50258/70507 wkg Albrook Aways (JDM-MN)
 11179 U 1805 MAC 90021 P/P Dover Metro via Loring Aways (JDM-MN)
 11179 U var. NAVY 38424/MAC 60147 wkg Hickam Aways (RNP-CO)
 11182 U 1745 ASCOT 4502 P/P Dallas MAS via Scott (CG-DE)
 11233 U var. CANMILL 505/6338 wkg CANMILL Edmonton (HCB-WA) (JDM-MN)
 12344 U 1545 KWI 940 (RNVAF) P/P Andrews Ops via MacDill (BCW-VA)
 13244 U 1503 CLIPPER 67 wkg Gander Aero (JDM-MN)
 13291 U 0501 NORTHWEST 9 wkg Tokyo Aero (JCH-MD)
 13306 U 1516 SPEDUBIRD 192 wkg New York Aero (JDM-MN)
 13330 U 1510 NOVEMBER 35 BRAVO wkg Universal Houston LDOCO (JDM-MN)
 13330 U 1512 NOVEMBER 299 WHISKEY wkg LDOCO New York (JDM-MN)
 13354 U 2213 AMERICAN 265 wkg Honolulu Aero (P-CO)
 14313 U 2003 CG 2111 wkg HRIBL (Queen Ann distress) (BCW-VA)
 18019 U var. MAC 40624/70014 wkg Albrook Aways (HCB-WA) (JDM-MN)
 3133 U 0715 **** TACTICAL ****
 4373 U 0715 0 BRAVO BRAVO c/g 1 LIMA MIKE for r/c (WF-ME)
 4428 U 0506 GIANT KILLER wkg CG 1347 (LK-NY)
 4428 U 0722 GLOBEORON wkg HARDBALL ALFA with r/c (CD-GA)
 4430 U 0731 WHISKEY 6 ALFA r/c with ECHO 5 ALFA (CD-GA)
 4746 U 0307 WISE 31 wkg MacDill Aways (JDM-MN)

USA.: 5692.0 U 0028 NOY9- CGAS Houston TX wkg CG 1426 (JCH-MD)
 5692 U 0042 NOR- CGAS San Diego CA wkg CG 1431 (JCH-MD)
 5696 U var. NWN- CG Portsmouth VA wkg CG 1347, NMT- CG Boston wkg CG 2115, NOY26- CGAS Corpus Christi wkg CG 5790, NOZ- CGAS Elizabeth City wkg CG 1471, NMG- CG New Orleans wkg CG 1477, NWC- CG San Francisco wkg CG 1455, (JCH-MD) (BCW-VA)
 5700 L 0017 APA3- Andrews AFB MD wkg SAM 86971 (JCH-MD)
 5917 C 0140 NNN- CG Portsmouth VA CQ mkr (HDT-NV)
 6347.2 C 0555 KFS- San Francisco MARCO - Marine NX (RWP-CO)
 6376 C 0607 WCC- Chatham MA MARCO - QSX mkr (RWP-CO)
 6300.5 U --- KFH- San Francisco MARCO wkg Polar Star (PAT-CA)
 6501.5 C 0618 WNO- Mobile AL MARCO - RTTY mkr (RWP-CO)
 6506.4 U var. NNN- CG Portsmouth - Marine WX (PAT-CA) (BCW-VA)
 6506.4 U 0505 NMC- CG San Francisco wkg CGC Bear (JCH-MD)
 6518.8 U 0022 NNN- CG Portsmouth wkg USS Phoenix (NH-OH)
 6518.8 U 0507 NMA- CG Miami wkg CGC Unimak (JCH-MD)
 6577 U 0337 KEA5- New York Aero wkg American 2658 (GCP-CO)
 6604 U var. WSY70- N.Y. VOLMET (JDM-MN) (DKB-MA) (KWK-VA)
 6701 S 2005 AFRYS Feeder // 150.54 KHz (AWR-HOLL)
 6715 U 0327 Moffett Rescue wkg King 04 (GCP-CO)
 6925a C 0125 KKN50- USDOS Mash DC - clg KNA27 (MDC-NY)
 8089.3 C 2314 NAM- Norfolk NAVRAD - WX b/c (NAM-VA)
 8294.2 U 2105 WKC- ST. Petersburg MARCO clg Bayou Bandit (RMS-NY)
 8666 C var. KLC- Galveston TX MARCO - CQ/QSX mkr (HDT-NV) (TML)
 8708 C 0351 WLO- Mobile AL MARCO - DE/RTTY mkr (RR-MA)
 8708.4 C 2330 WPD- Tampa FL MARCO - DE mkr (RMA-FRAN)
 8719 C 2030 NNN- CG Portsmouth VA - CQ/QSX mkr (JEB-CA)
 8796 U var. WOO- Oceangate MARCO - t/c List (NH-OH) (JEB-CA)
 8828 U 0035 KSP70- Oakland Aero - VOLMET (BLJ-TX)
 9183.5 U 1725 KOG69- FBI (qTH ?) r/c unknown sta (RLR-KS)
 10051 U 1816 WSY70- New York Aero - VOLMET (KWK-VA)
 10340 U 0215 WFK50- AP New York - CQ mkr (FSK mode) (HDT-NV)
 10493 U 1600 WGY903- FEMA Olney MD - net r/c/s (MAS-OH)
 11179 L 1555 WAF3- Andrews AFB MD wkg Air Force 1 (HDT-NV)
 12925.4 C 1730 WCC- Chatham VA MARCO - DE mkr (RMA-FRAN)
 12970.7 C 2143 WOE- Lantana FL MARCO - DE mkr (GHS-IL)
 12997.4 C 1600 WSL- Amagansett NY MARCO - CQ mkr (RMA-FRAN)
 13011 C var. WNU144- Slidell MARCO - CQ mkr (JDM-MN) (HDT) (GHS)
 13034 C 1530 WCC- Chatham MA MARCO - DE mkr (RMA-FRAN)
 13090 C 2120 WCC- Chatham VA MARCO - TLX mkr (GHS-IL)
 13104 U 1609 KMI- San Francisco MARCO wkg Pacific Princess (JRJ)
 13113.2 U 1802 NMC- CG San Francisco wkg CGC Cape Corwin (JCH-MD)
 13534 U 0017 NMC- CG Miami wkg MAC 90025 (JCH-MD)
 14313 U 1826 NMA- CG Miami wkg HriBEL (Queen Ann distress) (BCW)

4910.0 U 0232 XRAY 33 ALFA clg XRAY 37 ALFA (JRJ-MS)
 6151 U 1915 OSCAR 6 KILO with routine msg (FV-CA)
 6223 U 1406 ALFA ALFA CHARLIE 2 wkg ALFA ALFA CHARLIE YANKEE (RAL)
 6506.4 U 1253 UNIFORM 6 WHISKEY r/c with CG San Francisco (JDM-MN)
 6506.4 U 0802 ALFA 4 NOVEMBER wkg CG Honolulu (LK-NY)
 6683 L 1335 SAM 31682 wkg Andrews AFB MD (RAL-OH)
 6683 L 0127 SAM 24129 wkg Andrews AFB MD (RAL-OH)
 6715 U 0410 KING 04 clg JOLLY 89 (GCP-CO)
 6727 U 0402 6 YANKEE TANGO wkg QUEBEC 3 XRAY (CG-DE)
 6738 U 0254 NAVY LIMA SIERRA 01 p/p SNAKE OPS via Scott (GHS-IL)
 6750 U 2030 ACTIVIST clg Elmendorf Aways (MDC-NY)
 6756 U 2038 REPAY 04 wkg Loring Aways (OC-DE)
 6756 U 1456 RESISTIBLE wkg Andrews AFB MD (MDC-NY)
 6756 U 1916 ACCIDENT wkg Andrews AFB MD (RAL-OH)
 6873 U 1413 SAM 12490 wkg Andrews AFB MD (RAL-OH)
 6873 U 1407 MOBILE 2 & 3 wkg BASE ALFA (JDM-MN)
 7346 U 2040 NOVEMBER HOTEL ROMBO 16 wkg N.H.R. 17 (GHS-IL)
 7525 U var. PATRICK VESSEL 1925 wkg CAPE RADIO/COPTER 42 (GHS-IL)
 7527 U 2307 HOME PLATE wkg OMAHA 53 (GHS-IL)
 8610 U 1933 LIMA CHARLIE 15 r/c CONCOR (GHS-IL)
 8967 U 0835 SWAN 32 wkg Andersen AFB Guam (GCP-CO)
 8975 U 1356 (RAAF) RESCUE 161 wkg AIR FORCE SYDNEY (JDM-MN)
 8989 U 2243 HI FI 20 wkg MacDill Aways (OC-DE)
 8989 U 1505 SLAM 01 wkg Elmendorf Aways for r/c (OC-DE)
 8989 U 1426 NOVEMBER CHARLIE 042 wkg McCellan Aways (JDM-MN)
 8989 U 1426 AIR FORCE ONE r/c with McCellan Aways (JDM-MN)
 8989 U 0444 NAVY PAPA MIKE 02 p/p MOFFETT NAS via McCellan (RWP)
 8993 U 2355 ROMBO VICTOR 617 wkg MacDill Aways (LK-NY)
 90149 U 1903 EDGY 11 p/p RAYMOND 24 via INSURABLE (GHS-IL)
 10124 U var. TANGO 87 wkg WHISKEY 93 (MDC-NY) (HDT-NV)
 10780 U 1500 AGAR 22 wkg CAPE RADIO (RAL-OH)
 11179 U 2100 SCAPHORE wkg REMUDA or BERMUDA (RAL-OH)
 11179 U 0342 SCAPRS 38 wkg Hickam Aways (RWP-CO)
 11182 U 1940 ENTERPRISE 3 wkg Scott & Loring Aways (KC-MA)
 11182 U 0202 TAILPIPE ALFA wkg Scott Aways (JDM-MN)
 11220 U 0117 EARLIE CONTROL wkg TRAIN MAN (MDC-NY)
 11239 U 0205 KING 83 p/p MINUTEMAN via McCellan Aways (JDM-MN)
 11239 U 0208 FOXTROT NOVEMBER 296 p/p via McCellan (JDM-MN)
 11261 U 1355 INDIA 2 UNIFORM wkg SIERRA 5 PAPA (JDM-MN)
 11267 U 2302 ROMBO 9 XRAY wkg 7 BRAVO DELTA (RMA-TA)
 11400 U 1936 CHARLIE GOLF ROMBO 749 wkg C.G.R 745/7/48 (GCP-CO)
 12255 U 1519 MIKE 56 wkg JULIET 13 CHARLIE (JDM-MN)
 12258 U 1815 HOTEL 38 DELTA wkg BRAVO 38 DELTA (GHS-IL)
 12258 U 1824 4 DELTA wkg 5 PAPA (GHS-IL)

USA: 16180 C 2144 NAM- Norfolk NAVRAD - V/MC mkr (SN-TX)
 17190a C 2205 WCC- Chatham MA MARCO - DE/TLX mkr (SN-TX)
 17261 U 1840 WOM- Ft. Laud. MARCO wkg Sea Treasure (JRJ-MS)
 17281 U 1900 WOM- Ft. Laud. MARCO wkg Dr. Daniel (JRJ-MS)
 19849.2 C var. WPK39- AP New York - QRA/MC mkr (LK-NY)(JEB-CA)
 (PAC-UK)
 22457 C 2001 WNU46- Slidell LA MARCO - V mkr (TJY-MD)
 22611.5 U 2000 NMC- CG San Francisco wkg CCC Polar Star (BLA-PA)
 **** CENTRAL AMERICA ****
 BELZL: 11204 U 1944 (RAF) Belize Flight Watch wkg Asoc 4768 (JCH-MD)
 COST: 13100 C 2110 TIM- Limon MARCO - CQ mkr (GHS-IL)
 17149.1 C 1525 TIM- Limon MARCO - CQ/QSX mkr (HDT-WV)
 17157 C 2117 TIM- Limon MARCO - CQ/QSX mkr (TML-AL)
 ESAL: 13950 U 0048 YSIHUKE/3- USMILGP P/P via AHF4 Albrook (RLR-KS)
 GUAT: 13950 L 2052 HDMG3- USMAAG P/P via AHF4 Albrook (CC-DE)
 HOND: 13990 L 2330 HR1M- USMILGP wkg AHF4 Albrook (RLR-KS)
 PANA: 8608 C 0500 HFN60- Puerto Armauelles MARCO - V mkr (JCH-MD)
 13950 L 1645 AHF4- Albrook AFB wkg AHF5 (RLR-KS)
 15015 U var. AHF2- Albrook AFB wkg MAC 70478/50279(BEG-) (JCH)
 18019 U var. AHF2- Albrook AFB wkg MAC 60507/59644/20500
 (HCB-WA) (JCH-MD)
 **** CARIBBEAN ****
 BARB: 12709 C 2215 BFO- Bridgetown MARCO - DE mkr (GHS-IL)
 13139 U 2052 BFO- Bridgetown MARCO - t/c List (MH-OH)
 CUBA: 6435 C 0622 CLQ- Havana MARCO - QSX mkr (RWP-CO)
 12748 C 2055 CLQ- Havana MARCO - CQ/QSX mkr (JEB-CA)
 17165.6 C 2235 CLA- Havana MARCO - CQ mkr (GHS-IL)
 25495.5 C 1923 CLQ- Havana MARCO - V mkr (TJY-MD)
 8825 U 0503 Grenada Aero wkg a/c Papa 189 (JCH-MD)
 JAM.: 6470.5 C 0232 GXI- Kingston MARCO - CQ mkr (RFB-WO)
 MART: 6387.9 C 0626 FUF- FF NAVRAD Ft. de Francoe - V mkr (RWP-CO)
 8675.2 C 2132 FFP- Ft. de Francoe MARCO - CQ mkr (PAC-UK)
 12831 C 2100 FFP- Ft. de Francoe MARCO - CQ mkr (JEB-CA)
 13031.2 C 2136 FUF- FF NAVRAD Ft. de Francoe - V mkr (GHS-IL)
 22390 C var. FUF- FF NAVRAD (etc) - V mkr (TJY-MD) (RMA-FRAN)
 NETA: 12656 C 2300 PJK- Surcacao NAVRAD - V/QSX/MC mkr (JEB-CA)
 13042.5 C 2128 PJO- Curacao MARCO - CQ mkr (GHS-IL)
 P. R.: 2670 U 0313 NWS- CG San Juan - NTM b/c (RMS-NY)
 5692 U var. NMR26- CGAS Borinquen wkg CG 1438 (CC-DE) (JCH-MD)
 11387 U 1946 San Juan Aero wkg 510 Papa Charlie (RMS-NY)
 **** SOUTH AMERICA ****
 ARGN: 12709 C 0400 LSA5- Boca MARCO - V mkr (JEB-CA)
 12988.5 C 0105 LPD88- General Pacheco MARCO - V mkr (HDT-WV)
 25129.1 C 1930 LPD34F- General Pacheco MARCO - V mkr (TJY-MD)

U 1528 INDIA 5 SIERRA wkg DELTA 6 WHISKEY (JDM-WN)
 U 1756 RESTORE wkg MacDill AFB (JDM-WN)
 U 1745 OSCAR NOVEMBER 18 wkg Gander Aero (CC-DE)
 U 1555 TANGO OSCAR CHARLIE c/g SAGEBRUSH (HDT-WV)
 L 2353 ALFA HOTEL FOXTROT 1 (HOND-USMILGP) z/c AHF4 (RLR-KS)
 U var. SAM 24129 wkg Andrews AFB MD (BLA-PA) (GRW-OH)
 L 1510 SAM 31682 wkg Andrews AFB MD (MDC-NY)
 U 1730 SWING 76 wkg MacDill AFB (MDC-NY)
 U 2032 SAM 24126 wkg SAM CP via Andrews AFB (JCH-MD)
 U 2131 SEA LEVEL wkg PANTHER & ATLAS (KC-WA)
 U 1806 FLINT 14 wkg ATLAS (RWP-CO)
 U 2210 SHARK 368 P/P via ATLAS (GHS-IL)
 **** NUMBERS/BEACONS ****
 3242.0 A -----0609 S/Y 5d Finalx2 (422) 02Mar83 (LK-NY)
 3435 A 0625----- S/Y ?d (444) 08Feb83 (HDT-WV)
 3445 A 0415----- S/Y 5d ATT 112-75 (422) 02Mar83 (LK-NY)
 4670 A 0300-0330 S/Y 4d 334-10C FIN (433) 28Feb83 (LK-NY)
 4730 A 0403-0620 G/Y 3-2d ENDE (322) 28Feb83 (LK-NY)
 5135 A -----0439 S/Y 5d Finalx2 (422) 28Feb83 (LK-NY)
 5430 A 1015-1017 S/Y 5d Finalx2 (333) 02Mar83 (RMA-IA)
 5747 U 0505-0537 G/Y 5dd MM IS (222) 27Feb83 (RJR-RI)
 5765 A -----0617 S/Y 5d Finalx2 (422) 28Feb83 (LK-NY)
 5910 A 0415----- G/Y 3-2d (323) 28Feb83 (RJR-RI)
 6230 A 0723----- S/Y 3d ATT 227-25 (443) 01Mar83 (LK-NY)
 6235 A 0600-0730 G/Y 3-2d FIN FIN (212) 21Feb83 (RJR-RI)
 6496 A -----0703 S/Y none - repeats ATT 497 (533) 27Feb (LK-NY)
 6507 A 0610----- G/Y 5dd (222) 13Feb83 (RJR-RI)
 6708 U 0700-0712 G/Y ?d (111) 11Feb83 (RJR-RI)
 6745 A 0713-0720 S/Y 5d ATT 530-35 (544) 11Feb83 (RJR-RI)
 6770 A 0700-0707 S/Y 5d ATT 895-47 (533) 28Feb83 (LK-NY)
 6780 A 0714-0725 S/Y 5d ATT 895-47 (533) 28Feb83 (LK-NY)
 6845 U -----0411 E/O 5d 909090 (433) 01Mar83 (LK-NY)
 7320 A 0306-0311 E/O 5d 909090 s/off (544) 16Feb83 (MAS-OH)
 7404 U 0443-0447 G/Y 5dd ENDE (333) 28Feb83 (RJR-RI)
 7575 A -----0438 S/O 4d (444) 02Mar83 (LK-NY)
 7845 A 0630-0640 S/Y 5d Finalx2 (533) 28Feb83 (LK-NY)
 7855 A -----0910 S/Y 5d Finalx2 (543) 23Feb83 (LK-NY)
 7910 A 0800-0808 S/Y 5d Finalx2 (554) 27Feb83 (LK-NY)
 8115 A 0500-0509 S/Y 5d Finalx2 (533) 24Feb83 (LK-NY)
 8173 U 2243 E/? 5d (333) 02Mar83 (MAM-VA)
 8875 A -----0810 S/Y 5d Finalx2 (544) 27Feb83 (LK-NY)
 8930 U 2043-2045 E/Y none- repeats C.I.F.2 (345) 06Mar (KC-MA)
 9265 A 0205 G/Y 5d ENDE (444) 16Feb83 (WJS-ONT)
 9266 A 0300-0316 E/Y 5d CW"N" (544) 28Feb83 (LK-NY)
 9325 3 0104-0118 G/Y 5dd ENDE (454) 27Feb83 (RJR-RI)

BRZL: 8502.0 C 0230 PPL- Belém MARCO - V mkr (HDT-WV)
 8855 U 0646 Belém Aero wkg Argentine 327 in SS (RMS-NY)
 8855 U 0443 Recife Aero wkg Air France 097 (JCH-MD)
 8855 U 0442 Rio de Janeiro Aero wkg Lufthansa 502 (JCH-MD)
 10096 U 0514 Recife Aero wkg Swissair 147 (RMS-NY)
 12840 C 0015 PPO- Olinda MARCO - DE mkr (RMA-FRAN)
 13738 C 0045 PPR- EMBRATEL Rio de Janeiro - V mkr (HDT-WV)
 16984 C 0125 PPR- EMBRAYEL Rio - time signals (HDT-WV)
 2232.5 C 0125 PPR- EMBRATEL Rio de Janeiro - V mkr (GLT-NN)
 8771 C 0730 CGS- Santiago NAVRAD - V mkr (JEB-CA)
 COLO: 13087 C var. HKB- Barranquilla MARCO-CQ/OSX (TML-AL) (JEB-CA)
 ECUA: 7600 A 0339 HD210A- SPTS Guayquil - pips/SS/OM ann (DRH-PA)
 FRGU: 8855 U 0458 Cayenne Aero wkg Paramaribo Aero (JCH-MD)
 SURI: 6533 U 0512 Paramaribo Aero wkg Varig 60 (JCH-MD)
 URGY: 8653 C 0610 P2N3- Paramaribo MARCO - CQ mkr (JEB-CA)
 C var. CWA- Cerrito MARCO - CQ mkr (PAC-UK) (RMA-FRAN)
 VENE: 6100 A var. YVTO- SPTS Caracas- SS/OM ann (PAC-CA) (JEB-CA)
 1741.6 C 1030 YVG- La Guaira MARCO - V mkr (HDT-WV)

*** EUROPE ***
 AZOR: 4395 C 2315 CTH- Pp NAVRAD Horta - V mkr (RMA-FRAN)
 4746 U 0417 CUW- Lajes Airways wkg Lima Charlie 85 (RMS-NY)
 5550 U 0747 CSI- Santa Maria Aero wkg a/c 5598 (RMA-IA)
 12942.2 C 1700 CUG- Sao Miguel MARCO - CQ mkr (RMA-FRAN)
 13244 U 1838 CUW- Lajes Aways wkg MAC 60168 (AHR-HOLL)
 13066.9 C 1515 OST- Oostende MARCO - V mkr (RMA-FRAN)
 17017 C 1855 OSTG- Oostende MARCO - V mkr (JEB-CA)
 CYPR: 11234 U 0109 (RAF) Cyprus Flight Watch wkg Architect (JCH-MD)
 18459 C 1330 KMS79- USEMB Nicosia - DE mkr (RMA-FRAN)
 DEN.: 4303.5 C 1845 OXZ- Lyngby MARCO - ? mkr (RMA-FRAN)
 10390 C 0700 OMS3- PTP Copenhagen wkg TUW- (IVRY) (EDK-WI)
 12916.5 C 2153 OXZ6- Lyngby MARCO - V mkr (GHS-IL)
 13329 C 0222 OVG8- Frederikshaven NAVRAD- QSX mkr (TML-AL)
 4273.5 C 1830 KGI- Porthhead MARCO - DE mkr (RMA-FRAN)
 0211 C 0211 MTG- Plymouth NAVRAD - ??? (BEF-MO)
 4722 U var. MVU- West Drayton VOLMET (JCH-MD) (RMA-FRAN)
 8707 C 0405 GKE- Porthhead MARCO - DE mkr (RR-MA)
 11234 U 0100 NQP- RAF Upavon wkg Ascot 5580 (JCH-MD)
 13071.6 C var. GKE- Porthhead MARCO - DE mkr (RMA-FRAN) (GHS-IL)
 16954 C 2106 GKG6- Porthhead MARCO - DE mkr (JEB-CA)
 17098.7 C 1400 GKA- Porthhead MARCO - QRJ mkr (RMA-FRAN)
 17231 C var. GKG6- Porthhead MARCO - DE mkr (JEB-CA) (RMA-FRAN)
 17329 U 1932 GKW62- Porthhead MARCO wkg m/v Bristol (JCH-MD)
 FIN.: 2182 A 2157 OFH- Mariehamn MARCO - no tfc msg (PAC-UK)
 FRAN: 4312.5 C 1930 FUG- FF NAVRAD Castelnaudry - ?? (RMA-FRAN)
 5137.5 C 1630 FDY- FFAF Orleans - V mkr (IK-UK)

9432.2 A -----0453 S/Y 5d Finalx2 (5by5) 15Feb83 (RLR-KS)
 9433 A 0820-0831 S/Y 5d AT 143-117 (443) 01Mar83 (LK-NY)
 9465 A -----0813 S/Y 5d Finalx2 (544) 01Mar83 (LK-NY)
 9972 A 0200-0216 E/Y 5d CW"N" (533) 28Feb83 (LK-NY)
 10020 A 0635-0645 S/Y 5d (232) 20Feb83 (RUH-RI)
 11035 A 0600-0630 E/Y 4d 403-10C (322) 01Mar83 (LK-NY)
 11055 A -----0419 S/Y 5d Finalx2 (433) 01Mar83 (LK-NY)
 11215 A 0430-0436 E/Y 4d END (322) 01Mar83 (LK-NY)
 13442 U 1613-1623 E/Y 3-2d (333) 26Feb83 (JDM-WN)

*** RADIOELECTIVE ***

2691.0 2242 66/425 DHJ85- Gregel Metro FRG - CQ mkr (PAC-UK)
 3035 1845 66/425n DHJ85- Gregel Metro FRG - WX (RMA-FRAN)
 3177.6 0015 66/425n AWC- Calcutta Air INDI - DE mkr (AM-UK)
 3196 2415 66/425n LOMW- Flughafen Vienna ASTA - WX (AM-UK)
 3283 2246 66/425 ONY27- Army Rouveroy BELG - FOXS (PAC-UK)
 3590.3 0005 66/850n REJ56- Novosibirsk Metro USSR - RYS (AM-UK)
 3672.7 2350 100/850r RIPMCP- Rome NAVRAD ITLY - ID mkr (AM-UK)
 3693.4 0065 66/425n RPPNSB- Sagres NAVRAD PORT- clg GTV (AM-UK)
 4333 0605 100/170r NOJ- USOC Kodiak AK - WX (JEB-CA)
 4583 1915 66/425r DDK2- Quickborn Metro FRG- WX (RMA-FRAN)
 5103 0750 66/850r JMG8- Tokyo Metro JAPAN - WX (JEB-CA)
 5160 1610 66/425n RIFPAB- IFG Rome ITLY - to RIFAHA (AM-UK)
 5222 0030 66/425n TYB- ASEBNA Cotonou BENN - WX (AM-UK)
 5320 0355 66/450r ZVK- Rio de Janeiro Air BRZL- RYS (JEB-CA)
 5333.5 2100 66/425n DJR- Djibouti Air DJIB - clg ETD (AM-UK)
 5336 0645 66/850n RFPN-Monsanto NAVRAD PORT- RY/FOXs (BLA-PA)
 5803.7 2340 66/425r 9C0- Accra Air GHAN - DE mkr (AM-UK)
 5945 0400 100/425n Belize WX Bureau - RY/FOXs (JEB-CA)
 6330 0350 100/850r CFH- CANMIL Halifax CAN - WX (JEB-CA)
 6500.5 0358 ARQ/170 KPH- San Francisco MARCO-tfc to Royal Viking Star (BLA-PA)

ARG/170 WCC- Chatham MARCO MA - AP/WX (BLA-PA)
 66/425n JYP- PETRA Amman JORD - AA/WX (IK-UK)
 66/850n TLO- Bangkok Air CAPE - RYS (AM-UK)
 ----- IU181- INTERPOL Rome ITLY tfc to FSB (JK-FRG)
 66/850r JM14- Tokyo Metro JAPAN - WX (JEB-CA)
 100/450n VOA USA? EE/NX to Africa (EDK-WI)
 66/170n 58T44- Antananarivo Metro MADA- WX (AM-UK)
 66/425r 61U73- Dakar Metro SENE- RYS into WX (JEB-CA)
 ----- SWIS 56E Paris FRAN- tfc to Berne (JK-FRG)
 66/425n XVT56- Hanoi PTP VIET- clg Bangkok (AM-UK)
 66/850n SUA34- MENA Gairo EGPT - EE/NX (TJY-MD)
 66/425r 9RA- Luga Air MAIT - WX (TJY-MD)
 132 Var.r OEW27- Vienna Air ASTA - WX (BLA-PA)

FRAN:	6421.6	C 1830	FFL- St. Lys MARCO - DE mkr (RMA-FRAN)	8087	1930	66/425r	MKG-RAF London ENG - FOXs (RMA-FRAN)
	8522	C 0307	FFL4- St. Lys MARCO - V/QSX mkr (TMI-AL)	8097.5	2310	66/425r	FL Havana CUBA - EE/NX (JEB-CA)
	10562.2	C 1906	FTK56A- AFP Paris - CQ/QRA mkr (RLR-KS)	8111	1930	66/425n	MKG-RAF London ENG - FOXs (RMA-FRAN)
	13165.9	V 2037	FTK64- St. Lys MARCO - FF/OM/VM (RMS-NY)	8133	1711	66/425	SOL213- PAP Warsaw POL - QRA mkr (PAG-UK)
	13235.5	C 1734	HWN- Paris NAVRAD - V mkr (IK-UK)	8185	0330	FAX	FPF88- Paris Metro FRAN - QRA mkr (RMA-IA)
	22509	C 1805	YF19- St. Lys MARCO - CQ mkr (JEB-CA)	8290a	0309	66/170n	EMAK- m/v BORTSPOL - RYs (RMA-IA)
GDR.:	13375	V 1254	Y3D- PTP Berlin - EE/OM/VM (PAC-UK)	8298	0330	66/170n	UFPA- m/v ALEXEI CUENNERALOV- RYs (JEB-CA)
FRG.:	3117	V 0143	DR159- NATO Wilhelmshaven - exercise (IK-UK)	8346a	0507	66/170n	LYGI- m/v GIORDANO BRUNO- RYs to UFN (RMA-IA)
	3590	V 0523	DR495- CANMIL Lahr - Aero WX (JCH-MD)	8350a	0300	66/170n	LYEL- m/v name unkn - RYs to UFB2 (RMA-IA)
	13231	V 1920	DR495- CANMIL Lahr - Aero WX (JCH-MD)	8351.7	1841	SITOR	MFA Cairo EGPT - AA msg (JK-FRG)
	17144	C var.	DAN- Norddeich MARCO - CQ mkr (RMA-FRAN) (GF-NY)	8707	0546	FEC	MJO- Mobile MARCO AL - WX (JK-FRG)
GIBR:	12824.2	C 0450	GU- Gibraltar NAVRAD - DE mkr (HDT-WV)	9273	0355	66/850r	JUG20- Tokyo Metro JAPAN - WX (JEB-CA)
GREE:	17193.8	C 1315	SVB- Athens MARCO - V mkr (RMA-FRAN)	9298	0310	66/450r	ZVK- Rio de Janeiro Air BRZL- RYs (JEB-CA)
HOLL:	4250	C 1830	PCH- Scheveningen MARCO - DE mkr (TMA-FRAN)	9349	0320	66/425n	GTC29B- AP London ENG- EE/NX (TJT-MD)
	17007	C var.	PCH61- Scheveningen MARCO- CQ/QSX (TMI-AL) (JEB-CA)	9395	1800	66/425r	HK21- KCNA Pyongyang NOKO- RYs (JEB-CA)
EIRE:	5598	V var.	Shanwick Aero wkg AeroFlot 348/TWA 840 (JCH-MD)	9832	1815	66/850r	?? Hanói VIET - RR/NX to Moscow (JEB-CA)
	5640	V var.	EIP- Shannon Aero- VOLMET (JCH-MD) (RMA-LA)	9846	0020	66/425n	TUH- ASEONA Abidjan IVRY- t/c to SVC (AK-UK)
	5649	V 0452	Shanwick Aero wkg Sabina 548 (JCH-MD)	9848	2300	66/425n	TUH- ASEONA Abidjan IVRY- RYs (TJT-MD)
ITLY:	13264	V var.	EIP- Shannon Aero - VOLMET (IK-UK) (JDM-WN)	9855	0350	100/425n	VOA Tangier MROC - EE/NX (JEB-CA)
	8669.9	C 0451	IAR8- Rome PT MARCO - V mkr (JCH-MD)	9916	0612	66/850n	ZRH- Cape NAVRAD SOAF - RY/FOXs (EDK-MI)
	8685	C 0442	IRM6- CIRM Ptne - V mkr (JCH-MD)	9994	0127	66/850n	CSV65- Santa Maria Air AZOR- WX (TJT-MD)
	12975	C 2040	IQX- Trieste MARCO - V mkr (JEB-CA)	10137	2248	66/425r	HZN48- Jeddah Metro SAUD- WX (TJT-MD)
	13015.3	C 1530	IAR- Rome PT MARCO - V mkr (RMA-FRAN)	10215	0228	66/425r	RDW76- Khabarovsk Metro USSR- (JEB-CA)
	16004	C var.	IDR6- Rome NAVRAD- V mkr (JEB-CA) (SN-TX)	10220	0625	FAX	RSB71- INTERPOL Paris FRAN- bulliens (AM-UK)
	2376	C 1934	IAR62- Rome MARCO - V mkr (JEB-CA)	10295	0814	66/170n	FE571- INTERPOL Paris FRAN- bulliens (AM-UK)
NOR.:	3117	V 2252	JWT- NATO Stavanger - wkg MKL (IK-UK)	10407.5	0015	66/425n	6VY56- Dakar Air SENE - RYs (JEB-MD)
	11453.9	C 1800	IBA- Stavanger NAVRAD - V mkr (RMA-FRAN)	10408	1740	66/850n	9VY63- ANSA Singapore - EE/NX (JEB-CA)
	12962	C 1650	LCB- Rogaland MARCO - DE mkr (RMA-FRAN)	10483	0420	66/425r	CNO- Casablanca Air MROC - RYs (JEB-CA)
	22425	C 1925	LCG- Rogaland MARCO - CQ/QSX mkr (JEB-CA)	10880	0000	100/425n	TASS - EE/NX (TJT-MD) USSR
POL.:	10084	C 1924	SPH- Gdynia MARCO - QSX mkr (IK-UK)	11026.2	0037	100/850r	NGD- Mchurgo Sta ANTA - c/g ZLK (AM-UK)
PORT:	12944	C 2340	UK1- Lisbon MARCO - DE mkr (RMA-FRAN)	11063	0810	66/425r	LZU2- Sofia Air BUL- WX (RMA-FRAN)
SCOT:	3117	V 2203	MKI- RAF Pitreavie Castle wkg Alfa 8 Echo (IK-UK)	11070.3	0003	66/850r	LOR- Puerto Belgrano NAVRAD ARG- msg (AM-UK)
SPAN:	7926	C 0004	EEC- Cadiz NAVRAD - WX b/c (JK-FRG)	11230	1750	66/425r	HWR56- KCNA Pyongyang NOKO- RYs (JEB-CA)
	8618	C 0456	ED24- Aranjuez MARCO - V mkr (JCH-MD)	11427.7	0800	66/425n	BTA Sofia BUL - EE/NX (RMA-FRAN)
	12887.5	C 0055	EAD44- Aranjuez MARCO - CQ mkr (HDT-WV)	11435	0100	66/425n	CXK- Montevideo Air SENE - WX to Rio (AM-UK)
	13052	C 1515	EBA- Madrid NAVRAD - V mkr (RMA-FRAN)	11525	0130	66/425n	VNA25- VNA Hanoi VIET- EE/NX (JEB-CA)
SWED:	4262	C 1815	SAG- Goteborg MARCO - DE mkr (RMA-FRAN)	11575.6	0750	66/425r	DKK8- Quickborn Metro FRG- WX (RMA-FRAN)
	8499	C 0427	SAG2- Goteborg MARCO - CQ mkr (RR-WA)	11600	1705	66/425n	LN329- PTP Havana CUBA - RY/FOXs (RMA-IA)
	4259.5	C 1800	HEB- Berne MARCO - DE mkr (RMA-FRAN)	11638	0745	66/425r	HLN329- PTP Havana CUBA - c/g Mash DC (TJT-MD)
	6526	V 0522	Berne Aero wkg TWA 740 (JCH-MD)	11694	1320	100/425n	CLN369- PL Havana CUBA - RY/FOXs (JEB-CA)
	6395	C 0238	TBA2/3- Izmir NAVRAD - ??? (RFB-MO)	12223	0020	66/425n	HE082- USIA Geneva SWIS - c/g Wash DC (TJT-MD)
TURK:	11176	V 0038	AJ09- Incirlik Avys wkg MAG 60204 (JCH-MD)	12280	0740	66/425n	CLN369- PL Havana CUBA - RY/FOXs (JEB-CA)
	17021.5	C 0140	TAR- Istanbul MARCO - CQ mkr (GLT-WN)	13083.4	2339	66/170n	MJO- m/v name unkn - t/c to UTY (JEB-CA)
USSR:	3015	A 0040	Krasnodar Metro - RR WX b/c (IK-UK)	13084.9	1836	ARG/170	GXP- Portishead MARCO ENG- wkg GYAW (BLA-PA)
	3015	A 0056	Baku Metro RR WX b/c (IK-UK)				

USSR: 10090.0	U var.	Moscow VOLMET - EE/YL (JK-FRG) (RLR-KS)	13091	0728	FEB	URD - Leningrad MARCO USSR - RR/NX (JK-FRG)
11319	U 1336	Sverdlovsk VOLMET - RR/YL (JDM-WN)	13487.5	2056	66/425n	ISX35- ANSA Rome ITLY - IT/NX (TJY-MD)
11319	U 1425	Saiekhard VOLMET - RR/YL (JDM-WN)	13512	0340	66/425n	HMS61- KONA Pyonyang NOKO - EE/NX (JEB-CA)
12693	C 2320	URD - Leningrad MARCO - DE/QSX mkr (LK-NY)	13530	0340	66/850r	RWV53 - Moscow Metro USSR - WX (JEB-CA)
17152	C 1340	URL - Sevastopol MARCO - RR/NX (RMA-FRAN)	13538	1830	66/170r	DBX3 - ?? GDR - CG/NX (TJY-MD)
		**** AFRICA/MIDDLE EAST ****	13566	2135	100/850n	NLX - USN Sabana Seca P.R. - FOXs (JEB-CA)
ALGE: 8437	C 0405	7T16- Algiers MARCO - CQ mkr (LK-NY)	13587.5	2340	66/425r	NGD - McHurd Sta ANTA - clg FYJ3 (AM-UK)
8894	U 0103	Algiers Aero wkg KLM 578 (JCH-MD)	13653	0935	66/425r	SUA50 - MENA Cairo EGPT - QRA mkr (PAC-UK)
ANGO: 8566.3	C 0215	D3E51- Luanda MARCO - CQ mkr (GLT-NM)	13665	0335	66/425n	6VU73- Bakar Metro SENB- Rys (JEB-CA)
8903	U 0104	Luanda Aero wkg Cubana 1491 (JCH-MD)	13842.3	var.	100/850n	KRH51 - USEMB London ENB- FOXs (BLA-PA) (AM-UK)
12780	C var.	D3E61- Luanda MARCO - CQ/QSX (LK-NY) (RMA-FRAN)	13872	2355	66/170n	SNN299 - MFA Warsaw POL - coded t/c (AM-UK)
22331	C 1240	D3E61- Luanda MARCO - CQ mkr (RMA-FRAN)	13963	0305	66/850r	JMT3 - Tokyo Metro JAPAN - WX (JEB-CA)
ASCN: 8993	U 0222	AFD14- Ascension Ays wkg Ascot 4416 (CC-DE)	14392	2112	66/425r	KAC - Woods Hole MA (NOAA) WX (JEB-CA)
15015	U var.	AFD14- Ascension Ays wkg Mac 60203/50218 (JCH-MD)	14568	2220	66/425n	HML61 - KONA Pyonyang NOKO - EE/NX (JEB-CA)
BRAN: 17175.5	C 1330	A9M - Manama MARCO - CQ mkr (RMA-FRAN)	14612	2220	66/425r	YBU - unknown - Rys into 5 ltr t/c (JEB-CA)
17201	C 1726	A9M - Manama MARCO - DE mkr (PAC-UK)	14630	1845	66/170r	SUC41 - MENA Cairo EGPT - EE/NX (TJY-MD)
8903	U 0447	Brazzaville Aero - wkg Saudi 8804 (JCH-MD)	14719	0310	66/425r	JAN24 - KYODO Tokyo JAPAN - EE/NX (JEB-CA)
10057	U 1907	Brazzaville Aero - FF VOLMET (IK-UK)	14818	1715	66/425r	CLP25 - EKBAUCA Maputo ANGO - coded msgs (AM-UK)
DJIB: 8682	C 0429	J2A8 - Djibouti MARCO - CQ/QSX mkr (LK-NY)	14923	0145	66/425r	BAP44 - XINHUA Beijing PROC - QRA mkr (JEB-CA)
13042.3	C 1515	FF NAVRAD Djibouti - DE mkr (RMA-FRAN)	15684	1303	SITOR	FUZ - INTERPOL Paris FRAN - msgs (JK-FRG)
8578	C 2328	SUH3 - Alexandria MARCO - CQ/QRU mkr (LK-NY)	15905	0130	66/850n	R02U - Moldezhnaya Base ANTA - RR t/c (JEB-CA)
11300	U 0024	Cairo Aero wkg Speedbird 54 (JCH-MD)	15908	2125	66/425n	WEY35 - APP New York USA - SS/NX (JEB-CA)
ETHO: 11300	U 0053	Addis Ababa Aero wkg Air France 462 (JCH-MD)	16106.5	2030	66/425r	FZG61 - APP Ft. de France MART - FF/NX (TJY-MD)
GHAN: 8903	U 0451	Accra Aero wkg UTA 03 (JCH-MD)	16183	0125	66/425n	FP98/H1 - APP Paris FRAN - SS/NX (JEB-CA)
ISRL: 6242	C 1900	4YX - Haifa NAVRAD - DE mkr (RMA-FRAN)	16343	1300	66/425	YZT4 - TANJUG Belgrade YUGO - EE/NX (PAC-UK)
13051.5	C var.	4XO - Haifa MARCO - CQ/QSX (RMA-FRAN) (HDT-WV)	16359	1715	66/850n	CLP5 - EKBAUCA Algiers ALGE-t/c Havana (AM-UK)
11300	U 0258	Nairobi Aero wkg Speedbird 931 (HGB-WA)	16412	var.	66/425r	BAK66 - XINHUA Beijing PROC-SS/NX (JEB-CA)
4886	C 0330	KNK44 - USEMB Monrovia - QRA/QSX mkr (JEB-CA)	16440	1722	100/425	WBR70 - Miami Metro USA - WX (PAC-UK)
11474	C var.	KNK44 - USEMB Monrovia - QRA/QSX (RMA-FRAN) (LK-NY)	17369	1750	66/425n	GLN565 - Havana PTP CUBA - clg ZR077 (JEB-CA)
LYBA: 11300	U 0033	Tripoli Aero wkg Khartoum Aero (JCH-MD)	18188.5	1945	66/850r	ZVK7 - Rio de Janeiro Air - WX (TJY-MD)
MAD: 10057	A 0325	Antananarivo Aero - FF VOLMET (JDM-WN)	18205	0802	66/425n	MAL - SSEM Malabo GUIA - clg MAN Madrid (AM-UK)
NIGR: 8894	U 0056	Niamey Aero wkg Aeroflot 426 (JCH-MD)	18785	1825	66/425n	FS78 - Paris DIPO FRAN - FF/NX (JEB-CA)
NIGR: 8903	U var.	Kano Aero wkg Aeroflot 4178?616 (JCH-MD) (CC-DE)	18788.2	1630	66/425r	SUNA Khartoum SUDD - EE/NX (RMA-FRAN)
SAUD: 8927	U 0510	Jeddah LDCC wkg Saudi 8807 (JCH-MD)	18899.7	0817	66/425r	PAKI EMB Jeddah SAUD - t/c New Delhi (AM-UK)
SENB: 8661	U 0452	Dakar Aero wkg Amorcoc 242 (JCH-MD)	18965	0815	66/425n	OLD2 - CEFERA Prague CZECH - EE/NX (RMA-FRAN)
8994	C 0410	6WV - FF NAVRAD Dakar - V mkr (RR-WA)	18992.7	0815	66/425r	ASF32 - MFA Islamabad PAKI - t/c Beirut (AM-UK)
1121.1	L 0728	6VA - TELESENEGAL Dakar - FF/YL/VN (GHS-RI)	19058.5	0815	66/425n	MKD - RAF Akrotiri CYPR - FOXs (RMA-FRAN)
11291	U 0044	Dakar Aero wkg Ascot 4122 (JCH-MD)	19332.5	1623	ARQ/170	LBLI - NOR UNF IEB - msgs (BLA-PA)
13409	C 2109	6WV - FF NAVRAD Dakar - V mkr (TJY-MD)	19405	1050	66/170r	FSB63 - INTERPOL Paris FRAN - t/c Nicosia (AM-UK)
16951.7	C 0200	6WV - FF NAVRAD Dakar - V mkr (GLT-NM)	19520	1040	66/425r	ZBO94 - UPI Hong Kong - EE/NX (AM-UK)
8470	C 0452	ZRQ4 - Cape NAVRAD Simonstown - V mkr (JEB-CA)	19717	2100	66/425n	FFQ8/H3 - APP Paris FRAN - QRA mkr (JEB-CA)
8605	C 0503	ZBH4 - Cape NAVRAD Fisantekraal - V mkr (JCH-MD)	19742	0800	100/425n	4UN - UN Jerusalem ISRL - Rys (AM-UK)
8933	U 0101	Springbok LDCC Johannesburg wkg Springbok 250 (JCH)	19830.1	1540	66/425r	RWV76 - TASS Moscow USSR - FF/NX (BLA-PA)
12947.3	C 2145	ZRH - Cape NAVRAD Fisantekraal - V mkr (GHS-IL)	20317	1940	66/425n	FZC3 - APP Ft. de France MART - SS/NX (JEB-CA)

SOAP: 13127 U 2043 ZSC- Capetown MARCO - tfc list (MH-OH)
 SUDN: 11300 U 0429 Khartoum Aero wkg Alitalia 822 (JCH-MD)
 Y.DR: 3467 U 0237 Aden Aero wkg Aeroflot 459 (CC-DE)
 ZIRE: 8903 U 0440 Kinshasa Aero wkg Zambian 703 (JCH-MD)

**** ASTIA/FAR EAST ****

PRC.: 12871.5 C 0350 XSG- Shanghai MARCO - CQ mkr (JEB-CA)
 22312.5 C 0135 XSG- Shanghai MARCO - CQ mkr (GLT-NW)
 DIEG: 11176 U 0109 NKW- Diego Tower wkg Papa 6 Alfa (JCH-MD)
 11176 U 2251 NKW- Diego Tower wkg MAC 70003 (GHS-IL)
 HONG: 8828 U var. Hong Kong VOLMET (JK-FRG) (JDM-WN)
 13282 U var. Hong Kong VOLMET (IK-UK) JK-FRG
 6675.7 U 1757 Bombay Aero - VOLMET b/c (IK-UK)
 INDI: 11387 U 1757 Bombay Aero - VOLMET (IK-UK)
 JAPAN: 6679 U 0545 Tokyo Aero - VOLMET b/c (IK-UK)
 8000 A 0905 JTY- SPTS Tokyo - pips JJ/VL amk. (AR-CA)
 12210 C 1720 KWL90- USEMB Tokyo - GRA/GSX mkr (JEB-CA)
 13282 U 1440 Tokyo Aero - VOLMET b/c (JDM-WN)
 17029 C 2145 JMC6- Tokyo MARCO - CQ mkr (JEB-CA)
 8484.2 C 1320 HLF- Seoul MARCO - CQ mkr (GLT-NW)
 12935 U 2038 HLG- Seoul MARCO - CQ/GSX mkr (JEB-CA)
 13005 C ---- HLM- Seoul MARCO - CQ mkr (HDT-WV)
 REUN: 8469 U 1325 FFD28- St. Denis MARCO - CQ mkr (GLT-NW)
 SING: 6676 U 1520 Singapore Aero - VOLMET b/c (IK-UK) (JEB-CA)
 TIWN: 12863 C 2245 XSM- Kaohsiung MARCO - CQ/GSX mkr (JEB-CA)
 22335 C 0130 XSM- Kaohsiung MARCO - CQ mkr (GLT-NW)

**** PACIFIC OCEAN ****

AUST: 4500 A 0950 WNG- SPTS Lyndhurst (AR-CA)
 6428 C 1335 VIX- Canberra NAVRAD - CQ mkr then WX (GLT-NW)
 6680 U 0801 Sydney Aero - VOLMET b/c (IK-NY)
 7500 A 0900 WNG- SPTS Lyndhurst (AR-CA)
 8711 C 0740 VIS65- Sydney MARCO - CQ mkr (JEB-CA)
 8975 U 1415 AXI- RAAF Sydney wkg RAAF Townsville (JDM-WN)
 8975 U 1430 AXI- RAAF Darwin wkg RAAF Sydney (JDM-WN)
 8975 U 1305 AXJ- RAAF Perth r/c RAAF Sydney (JDM-WN)
 11387 U var. Sydney Aero - VOLMET b/c (IK-UK) (JDM-WN)
 22474 C 0120 VIS- Sydney MARCO - V mkr (GLT-NW)
 22585 C 0125 VIX7- Canberra NAVRAD - V mkr (GLT-NW)
 FLJI: 13300 U 0448 JDM- Nandi Aero wkg Continental 2 (JCH-MD)
 GUAM: 13300 U 0459 Guam Aero wkg Korean Air 661 (JCH-MD)
 22527 C 0115 NRY- CG Guam (Barrigada) V mkr (GLT-NW)
 HI...: 5547 U 0446 Honolulu Aero wkg United 21 (JCH-MD)
 6506.4 U var. NMO- CG Honolulu - WX b/c (BEC-NY) (RMS-NY)
 6679 U 0300 Honolulu Aero - VOLMET b/c (HCB-WA)
 6738 U 0544 ACA2- Hickam Aways wkg Alger 71 (RMS-NY)

20327.2 2 1645 66/425r 6VK221- TELESNEGAL Dakar - testing (AM-UK)
 20350 1800 100/850r NBA- ENCA Balboa PANA- RYS (JEB-CA)
 20734.6 1240 66/425n CLP6- ENCABOEA Aden Y.DR- mcs relay (AM-UK)
 20844.5 1931 66/327r MFA Havana. CUBA- coded t/c Congo (CD-CA)
 20961 2055 100/850r ACA80L- MARS Clark AFB PHIL- mcs (JEB-CA)
 20997.5 1635 100/425n CZEB EMB Lagos NIGR- t/c Prague (AM-UK)
 22227 0115 66/170r UFB- Odessa MARCO USSR- wkg LYLN (JEB-CA)
 22315.2 1915 100/850r FUF- FF NAVRAD Ft.de France MART- RYS (TUY-MD)
 22578 1920 AR6/170 GKF7- FortSheard MARCO ENG- mcs (BLA-PA)
 23459.8 1345 66/425r Y7A58- MFA Berlin GDR- GRA mkr (RMA-FRAN)
 23460 1900 66/425r Y7A88- MFA Berlin GDR- RYS (BLA-PA)
 23716.7 var. 66/425n WFG83- APP N.Y. - SS/NX(MAM-WA) (JEB-CA) (TJY-MD)
 24069.8 0750 66/170r FSB64- INTERPOL Paris FRAN- t/c Rome (AM-UK)

**** QSLs ****

Very heavy input this month. Little QSLs in space remaining. Will hold ALL unused QSLs for next issue.....

SHIPS: (all HH-MD) - LGIT- CREDO.... GMLJ- IEN MAJID.... GYHM- BROWNING...
 D5BC- SEDCO BP471... 3PZQ- THORNHAVEN... KPHX- THOMPSON LYKES...
 WJJA- GENEVIEVE LYKES... HO9732- J.RAY McDERMOTT #7... GQFM- SERVIA...
 GIDL- LA PALDA... QMT- BUNGA ANGSANA... GUIS- HMS BROADSWORD...
 LHM- ADMIRAL CABRAL... LPSA- SACAFJORD... GURA- ARMORE...
 VMES- ENERGY SEARHER... GTOS- REYNOLDS... WXD6134- CATAMAR 3.... (HH-MD)
 GBTI- QUEEN ELIZABETH 2 - PFC,Itr r 58d for MS - 4094 kHz (RMS-NY)
 MVVF- NOAA ALBATROSS 4- PFC 10d MS 6200 kHz (RMS-NY)
 NAAO- CGC GLACIER- postcard 27hd for MS 6506.4 kHz (GRW-OH)
 CGC POINT MARTIN- PFC in 9d for MS 2670 kHz (TES-CA)
 NRTF- CGC ACTIVE- PFC in 8d for MS 6200 kHz (RMS-NY)
 NMAG- CGC HAMILTON- PFC,Itr in 16d for MS 6200 kHz (RMS-NY)
 KNBD- NOAA DELAWARE 2- PFC in 9d for MS 6200 kHz (RMS-NY)
 NFMQ- CGC SWEETGUM- PFC,Itr in 15d for MS 6518.8 kHz (RMS-NY)
 LAPJ- NORDIC PRINCE- PFC in 50d for MS 8222.9 kHz (RMS-NY)
 KEAG- EXXON CHESTER- PFC,Pic in 32d for MS-16587.1 kHz (RMS-NY)
 KEAL- NEW JERSEY SUN- PFC in 16d for MS 16587.1 kHz (RMS-NY)
 KEAH- EXXON BANGOR- PFC in 18d for MS 16587.1 kHz (RMS-NY)
 MLDT- PRESIDENT TAFT- PFC in 70d for MS 22124 kHz (RMS-NY)
 AIRCRAFT:
 CG 1494 - PFC in 13d for SASE 5696 kHz (no name)
 CG 1434 - PFC in 14d for MS 5696 kHz (RMS-NY)
 TROUT 98 - PFC in 19d for MS 15015 kHz (MDC-NY)

.... Dropped sections, UNIDENTIFIED and VLF//LW//MW this month. Lack of column space forced me to trash 270 loggings.

.... 2nd installment for the SRGU went off to HQ in early March. Has a total of 94 pages: US Coast Guard-80, SLHFB Report-14, Ready May???

HI... 8828.0 U var. Honolulu Aero- VOLMET (HCB-WA) (JCH-MD)
 8843 U 0454 Honolulu Aero wkg World 40 (JCH-MD)
 8984 U 0447 NMO- CG Honolulu wkg CG 1502 (JCH-MD)
 11201 U 0101 NMO- CG Honolulu wkg CG 1348 (JCH-MD)
 11282 U 0441 Honolulu Aero wkg United 48 (JCH-MD)
 13113.2 U 1756 NMO- CG Honolulu - WX b/c (JCH-MD)
 13282 U var. KVV70- Honolulu VOLMET (JDM-WA) (FAV-CA)
 NCAI: 8646.5 C 1310 FUJ- FF NAVRAD Noumea - V mkr (GLT-NM)
 82461 C 0115 FUJ- FF NAVRAD Noumea - V mkr (GLT-NM)
 NZEL: 5915 C 0800 ZLZZ0- Wellington Metro - Cq mkr (JEB-CA)
 6679 U var. Auckland Aero - VOLMET (JDM-WN) (IK-UK)
 6506.4 U 0653 ZLW- Wellington MARCO wkg ZMA 2439 (RWP-CO)
 8737.5 U 0620 ZLW- Wellington MARCO - EE/OW/VM (JEB-CA)
 8828 U var. Auckland Aero - VOLMET (JDM-WN) (JCH-MD)
 12716.5 C 0200 ZLO- Irirangi NAVRAD - DE mkr (HDT-WV)
 FFPO: C var. FUM- FF NAVRAD Papeete - V mkr (GLT-NM) (RMP-CO)
 8625 C 1315 FUM- FF NAVRAD Papeete - V mkr (GLT-NM)
 17380 C 0150 FUM- FF NAVRAD Papeete - V mkr (GLT-NM)
 22545 C 0120 FUM- FF NAVRAD Papeete - V mkr (GLT-NM)

**** ANTARCTICA ****
 8997.0 U var. NZDM- McMurdo Center wkg Xray Delta 01 & 05 (TES-CA)
 11522 U 0222 NQU- Siple Station wkg CGG Polar Star (GRW-OH)
 11552 U 0425 NGD- McMurdo Relay wkg CGG Glacier (GRW-OH)
 11552 U 0129 NHG- Palmer Station wkg Siple Station (GRW-OH)
 13385 C 0037 RULE- Vostok Station wkg Molodezhnaya Base (RLR-KS)
 13385 C 0020 RUZO- Molodezhnaya Base wkg RUZO (RLR-KS)
 13385 C 0015 UGE2- Bellingshausen Base wkg RUZO (RLR-KS)
 13973 U var. NNNØTCB- MARS McMurdo - p/p ifc to USA (WH-OH) (LK-NY)
 13974 U 0322 NNNØCMR- MARS Palmer Sta. wkg NNNØUOK (GRW-OH)
 13974 U 0239 NNNØTOP- MARS Siple Sta. p/p via NNNØFMO (GRW-OH)

**** SHIPS ****
 2182 A 1658 South Goodwin Light Vessel clg Dover CG (PAC-UK)
 4097.1 U 0450 GLOBAL DELTA wkg WOO (HCB-WA)
 4392 U 0107 ANCHORS AWEIGH p/p via WOM (CC-DE)
 5696 U 0821 KVMH- SEATTLE wkg CG 2102 (TES-GA)
 5696 U 2051 NNGP- CGG CHEROKEE wkg CG 1434 (CG-DE)
 5696 U 0122 NBXL- CGG UTE wkg CG 2108 (JCH-MD)
 6200 U 2203 NHDT- CGG TANEY wkg CG Portsmouth (MH-OH)
 6200 U 0031 NRTF- CGG ACTIVE wkg CG Portsmouth (GRW-OH)
 6292.5 C 1430 CGCF-(CANGC) SIR WILLIAM ALEXANDER wkg VCS (RAC-VT)
 6292.5 C 1448 DFFQ- AFRICAN AZALEA clg WNU Slidell LA (RAC-VT)
 6506.4 U 1255 WTER- NOAA RESEARCHER wkg CG Honolulu (JDM-WN)
 6506.4 U 1250 NRPQ- CGG CITRUS wkg CG San Francisco (JDM-WN)
 6506.4 U 0803 NHPN- CGG IRONWOOD clg CG Honolulu (LK-NY)

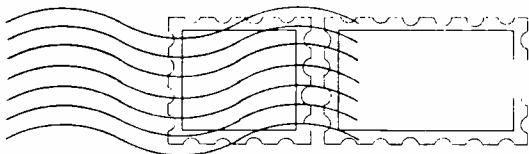
..... The 60 contributors this month were:

(RMA-FRAN) Roger Aked (EDK-MI) Eugene Krolak
 (BLA-PA) Brian Alexander (RAL-OH) Robert Leary
 (RMA-IA) Rodney Alexander (ML-ME) Michael Leonard
 (HCB-WA) Hobart Beal (TM-AL) Terry Lindley
 (JEB-CA) Jason Berrl (MAN-VA) Mike McKinstry
 (DKB-MA) Donald Black (AM-UK) Alex Moore
 (BEC-NY) Bruce Campbell (SN-TX) Sam Neal
 (CC-DE) Cornelia Campbell (FJO-OH) Fred Osterman
 (MTC-AZ) Mike Chabak (RMP-CO) Roger Pattengill
 (MDC-NY) Mark Chinsky (?P-CA) ? Piatelli
 (KC-MA) Kenneth Compton (WP-MS) William Polsgrove
 (PAC-UK) Peter Curtis (CCP-CO) Charles Pringle
 (RAC-VT) Robert Curtis (RLR-KS) Robert Rankin
 (JHD-PA) John Demmitt (RR-CA) Robert Raymond
 (CD-CA) Chris Devendorf (AR-CA) Allen Rising
 (GP-NY) Gonzalez Fernando (AMR-HOLL) Allen Roberts
 (REF-MO) Robert Flick (MAS-OH) Mike Schulsinger
 (MH-OH) Michael Harris (GHS-IL) Greg Shepherd
 (JCH-MD) James Hartung (TES-GA) Timothy Starr
 (DRH-PA) Donald Hein (WJS-ONT) Wilf Stone
 (HH-MD) Hank Holbrook (RMS-NY) Robert Streeter
 (RJJ-RI) Robert Horvitz (HDT-WV) Harold Tate
 (RH-WO) Roberta Howard (GLT-NM) Glenn Thompson
 (CH-MEX) Carl Huffaker (PAT-CA) Peggy Thompson
 (BLJ-TX) Brian Jones (THT-CA) T.H. Trager
 (JFJ-MS) Jack Jones (FAV-CA) Fred Valentine
 (LK-NY) Leon Karopka (GRW-OH) Gene Malega
 (IK-UK) Ian Kerr (JDM-WN) John Williams
 (JK-FRG) Joerg Klingenfuss (BCW-VA) Bernie Wimmers
 (KWK-VA) Kraig Krist (TJY-MD) Thomas Yingling

◆ Klingenfuss Publications - Universal Electronics will now market the Joerg Klingenfuss book, here in the USA.. Format is the standard 8 1/2 x 11 size, maps are inserted into the book. All else remains the same... The CPCSL has been retitled to: "WORLD UTILITY FREQUENCY AND CALL SIGN GUIDE" (Book G) Price is \$12.00 US/Canada...
 ... Michael Schaay's "RTTY PRESS BROADCASTS" (Book H) mentioned in the Feb & March columns, is likewise \$12.00 US/Canada... Order via money order, check, or have them charged to your VISA/MASTERCARD. Both can be ordered from:

Universal Electronics, Inc.
 1280 Alda Drive
 Reynoldsburg, OH 43068

MTC



EDITOR:

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Deadline: 12th of the month

QSL REPORTS

The Ides of March are upon us, and, as with the Ides of any month, it's now time to prepare QSL Reports. Some truly outstanding contributions have crossed this desk over the past month, so, without further ado.....

EUROPE

ALBANIA: Radio Tirana, 6200, 7120, 7220, 9750, f/d Revolution Spirit cds in 70 days (Howard-MO), in 85 days (Gunter-NC), in 174 days (Pfeffer-NY), in 24 days (Ledford-NJ), in 49 days (Harris-OH).

AUSTRIA: ORF, 5945, f/d card in 60 days (Valentine-CA); same along with report forms in 62 days (Krist-VA); 21525, f/d card in 39 days (Wettersten).

BRUSSELS: BRT, 9870, f/d Brussels foto card in 32 days (Krist); 9880, same along with pennant, sticker and DX club membership card in 37 days (Taylor)

BULGARIA: Radio Sofia, 9700, f/d Palace with Fountain card in ? (Wettersten), f/d Costumes card in 44 days (Robichaud-NeB), f/d Highway Scene card in 40 days (Starr-GA), f/d National Theatre cd in 21 days, 2 IRC (Robinson-TN).

CZECHOSLOVAKIA: Radio Prague, 7345, f/d card in 81 days (Welch-MA), same in 31 days (Rising-CA); 11990, f/d card in 58 days (Wettersten-OH).

DENMARK: Radio Denmark, 11715, f/d Painting cd in 21 days (Harris-OH).

ENGLAND: Voice of America Wooferton Relay, 7200, f/d Golden Gate Bridge cd in 30 days (Smith-FL); British Broadcasting Corporation, 6110, date only cd in 25 days for FF report (Robichaud-NeB); 9510, n/d cd in 54 days (Wettersten); 9600, n/d card and sticker in 63 days (Casavant-PQ).

FINLAND: Radio Finland, 15400, n/d Audience Card in 28 days (Harris-OH); no data letter advising that Audience cards may be resumed later in 1983 in 30 days (Ryder-FL). Ah rats, first the n/d Audience cards and now not even those. Best I withhold any other comments (kap).

FRANCE: Radio France Internationale, 17850, 17750, 17620, 21580, 21620, 21645, f/d cards, pennants, stickers, calendars, etc in 200 days (Schul-singer-OH), in 210 days, 2 IRC (Van Horn-TX), in 24 days, IRC (Robinson-TN), in 129 days (Howard-MO); in 17 days, 2 IRC (Harris-OH), in 131 days (Hensley-TX), in 153 days (Spremo-NY), in 216 days (Stephany-NY), in 165 days (Hesch-NY), in 216 days, 2 IRC (Greenbauer-AZ), in 54 days (Casavant-PQ). Well, we now have an explanation for the paucity of RFI reports the past few months. The folks who waited the longer times received, along with the other materials, notes apologizing for the delay and explaining that the delay was due to a reorganization at the station. Back in the late '50s and early '60s RFI was a reluctant verifier, some worry was expressed that they might have gone back to that. (kap).

GERMANY, DEMOCRATIC REPUBLIC (East): Radio Berlin International, 9550 and 9560, f/d cards in 61 days (Zolla-CA), in 56 days (Wettersten-OH), in 58 days, IRC (Moore-TX), in 63 days (Krist-VA), in 55 days (Greenbauer-AZ), in 60 days (Evans-TN), in 21 days, 2 IRC (Robinson-TN). By the way, after a bit of an absense, RBI is again sending out their DX club bulletin. While not as consise as the one that Radio Budapest puts out, it is still of some value (kap).

GERMANY, FEDERAL REPUBLIC (West): Deutsche Welle, 9545, no data card and sked in 51 days, 2 IRC (Robinson-TN); Sudwestfunk-Rohrdrorf, 7265, date/freq "ear" card in 65 days, ms (Schlesinger-TX); Bayerischer Rundfunk-Munich, 6085, freq only Broadcasting Tower card in 38 days, 2 IRC (Schlesinger). The West German regionals are usually pretty good verifiers. A quick trip through the WRTVH or the Europe column in SPEEDX will give you a pretty good idea as to what can be heard. (kap).

GREECE: Voice of Greece, 9865, f/d View of the sea card in 38 days (Wettersten-OH); Voice of America - Kavala Relay, 6060, f/d card in 23 days (Robichaud-NeB). VOA, upon request, will often supply a complete freq/site sked (though not identifying languages). Requests should be sent to the VOA Frequency Division, Washington, DC 20457 (kap).

HUNGARY: Radio Budapest, 9585, f/d logo card in 59 days (McKinstry-VA).

IRELAND: Radio Dublin, 6910, f/d Map card in 15 months, 2 IRC, also rcvd sticker (Krist-VA). This station is back on the air, best heard about 0500 GMT or so, reports go to Radio Dublin, Dublin, Republic of Ireland. An IRC or 2 will be appreciated (kap).

ITALY: RAI, 9575, f/d cards in 118 days (Spremo-NY), in 45 days (Harris-OH), in 129 days, IRC (Ledford-NJ), in 241 days (Casavant-PQ). RAI, though not one of the quickest QSLers around is a pretty reliable one. (kap).....

MALTA: XANDIR MALTA, 9670, f/d card in a total of ?? days, 246 days after follow up (Gunter-NC); Radio Mediterranean, 5960, f/d map cards in 15 days, FF report (Robichaud-NewB), in 3 weeks (Roussell-NewB); in 27 days, IRC (Stephany-NY), in 22 days (Krist-VA), in 30 days, IRC (Taylor-MO),... This station has moved to a new frequency of 6110 (kap).

MONACO: Trans World Radio - Monte Carlo, 9495, f/d Syprus MW antenna card, sked and pennant, in 36 days, ms (Philip-BC).

NORWAY: Radio Norway, 25730, f/d cards in 29 days (Wettersten-OH), in 73 days long with sticker (Spremo-NY)..

POLAND: Radio Polonia, 9525, f/d "Warsaw-View of the Old Town" card in 68 days (Krist-VA); 9675, f/d "Royal Castle" card in 88 days (Wettersten-OH); 11840, f/d "Girl with Dove" card in 106 days along with Polish stamps and calendar (Leite-MA). The "Girl with Dove" card is a special one offered only for reports on the 1130 GMT transmission to North America on 11840 (kap).

PORTUGAL: Radio Portugal, 9520, f/d card in 40 days (Howard-MO).

ROMANIA: Radio Bucharest, 6155, f/d card and pennant in 57 days (Stephany-NY) 9510, f/d card in 91 days (Krist-VA), 9570, f/d cd in 49 days along with 2 calendars and info on their Listeners Club (Starr-GA).

SPAIN: Radio Exterior De Espana, 9630 and 11880, f/d cards in 38 days (Wettersten-OH), in 21 days (Hosmer-MI), in 32 days (Tilley-CO), on 38 days (Weikel-MI), in 101 days (Sharp-FL), in 35 days (Mathew-MA), in 41 days (McCants-AL).

SWITZERLAND: Swiss Radio International, 6135, f/d card, sked, poster, booklet in 34 days, 2 IRC (Robinson-TN); 9725, f/d card in 37 days, IRC (Ryeder-FL), in 32 days (McCants-AL); 17795, f/d card in 107 days (Welch-MA); 21570, f/d card in 31 days (Smith-FL), in 25 days (Smith). Red Cross Broadcasting Service, 7210, f/d card in 32 days (Roussell-NeB).

SWEDEN: Radio Sweden, 11705, f/d Logo Card in 103 days (Welch-MA), same in 41 days, IRC (Kapinos-MA).

VATICAN CITY: Vatican Radio, 6015, f/d card in 15 days, IRC (Hosmer-MI), 6210, same in 17 days (Duncan-NC); 9605, same in 15 days (Weikel-MI); 11845, same in 14 days (Greenbauer-AZ). RV is one of the most quick and dependable QSLers today. Hard to believe that at one time it was virtually impossible to pry a QSL out of them (kap).

WEST BERLIN: RIAS, 6005, f/d Tower Card (a new one) in 36 days (Leite-MA). Good go, Steve, tough here in the Northeast due to CFRX-Montreal (kap).

YUGOSLAVIA: Radio Jugoslavia, 9620, f/d "Beograd" card and sked in 46 days (Stephany-NY).

AFRICA

ANGOLA: Radio Nacional de Nagola, 9535, f/d personal letter in 50 days for PP report and IRC. While the report was prepared in PP, the QLS was in English, though a bit stilted (Ross-ONT).

ASCENSION ISLAND: BBC Relay, 15260, F/D NASA Relay Station card in 17 days via Patrick Air Force Base, FL (Saunders-NJ). Hmnmnmnm..... perhaps a new way to do it (kap)

BENIN: La Voix de la Revolution, 4870, f/d "Logo/Art" card in 36 days, EE report, 2 IRC (Stephany-NY).

CANARY ISLANDS: Radio Exterior de Espana Tenerife Relay, 15365, f/d card in 24 weeks total, 5 weeks after follow up (Wilkins-CO), same in 38 days (Robichaud-NeB). Both via Madrid, which is the proper way to go (kap).

CONGO, POPULAR REPUBLIC: RT Congolaisse, 15190, f/d letter, skeds, etc in 57 days for FF report, SASE (Hall-CA). Good go, Stu, the SASE is a good approach to this toughie (kap).

KENYA: Voice of Kenya, 4915, f/d aerogramme in 16 days for 3 IRC, EE report (Hosmer-MI). Now, if the #*&% UTE that fires up immediately following the ID at 0300 on 4934 would take the night off, I'd have a shot (kap).

LESOTHO: BBC Maseru, 9515, n/d Thames Bridge card in 32 days, IRC for report to London. No answer yet for report and PFC send direct to Maseru (Kapinos).

LIBERIA: Voice of America Monrovia Relay, 11835, f/d 40th Anniversary - Golden Gate Bridge card in 8 days (Greenbauer-AZ).

MADAGASCAR: Radio Netherlands Talata Relay, 15220, f/d "New Transmitter" card, pennant, stickers, postcard, Royal Family pictures, all in 53 days, no rp (Stephany-NY). Gadzooks, imagine what would you have gotten had you sent some return postage (kap).

NAMIBIA: Radio South West Africa, 4965, g/d card, book, pamphlet, bumper sticker, in 99 days, 2 IRC (Schulsinger-OH).

NIGER: Rd du Niger, 5020, f/d "Ici Niamey" card, 1 month after follow up, 162 days total, FF report, ms (Hall-CA).

NIGERIA: Voice of Nigeria, 7255, f/d Remembrance Arcade cards in 204 days, 2 IRC (returned) (Ulmer-LA), same and the 2 IRC were also returned in 239 days (Pfeffer-NY). Perhaps they returned the IRC because they weren't exactly super quick in replying (kap). Gee, no regionals this time (kap).

SIERRA LEONE: SLBS, 5980, f/d personal letter in 6 months (Kanopka-NY).

SOUTH AFRICA: Radio 5, 3250, f/d card in 25 days, 2 IRC (Greenbauer-AZ); SABC, 4835, f/d cards in 29 days, IRC (Moore-TX), in 26 days, IRC (Stephany-NY); Radio RSA, 4990, 7270, 9615, 11730, 11900, 15325; f/d cards in an average of 30 days, pennants received by those who requested them, no rp (Spremo-NY, Hecht-PA, Casavant-PQ, Mathew-MA, Rising-CA, Dan Johnson-CA, Greenbauer-AZ, Duncan-NC, Welch-MA, Wilkins-CO, Kapinos-Miller Country).

SWAZILAND: Trans World Radio - Manzini, 9730, f/d card, sked, info on services, 27 days, 2 IRC (Rising-CA).

UPPER VOLTA: Radiodiffusion-Television Voltaque, 4815, f/d letter and sked in 63 days, FF report, 2 IRC (Leite-MA). Atta go, Stevie (kap).

MIDDLE EAST

IRAN: IRIB, 9022, f/d card in 46 days, 2 IRC (Ledford-NJ), same in 255 days (Pfeffer-NY).

ISRAEL: Kol Israel, 9815, f/d Logo card in 43 days (??-??). Please put name and state on each slip (kap).

KUWAIT: Radio Kuwait, 11675, no data "Thank You" letter, 2 stickers and program guide in 46 days (Stephany-NY).

LEBANON: King of Hope, 6215, f/d card and sticker in 14 days, ms (Harris-OH).

OMAN: Radio Oman, 9655, f/d folder in 44 days, IRC (Sato-Japan); 9735, f/d card in 3 months (Demmitt-PA).

SAUDI ARABIA: BSKSA, 15060, f/d Logo and Date Palm card in 21 days along with "goodie pack" (Sharp-FL). Note, this station will accept detailed EE reports for their AA programs. Also note, and this is most important, the Koran readings that are sung over the air should be referred to as "RECITATIONS" NOT "Chanting". It is a greivous insult to those of the Moslem Faith to refer to their prayers as "Chants". (kap).

UNITED ARAB EMIRATES: Radio Dubai, 11755, f/d card, pennant and sked in 34 days (McCants-AL); 21655, same in 33 days (Ulmer-LA).

U S S R

Radio Moscow Sites:

Moscow, 7440, 6 weeks (Wilkins-CO), 9565, 30 days (Wettersten-OH), 6.11, along with Pennant, 56 days, IRC (Robinson-TN).

Petropavlovsk; 15450, 55 days (Welch-MA).

Tula, 12030, 48 days (Greenbauer-AZ).

RADIO KIEV: 15100, 17870, in 56 days (Starr-GA), 45 days (Krist-VA), 55 days (Greenbauer-AZ), 53 days (Grijalva-AZ).

RADIO TASHKENT: 9600, 39 days along with postcards (Krist), 51 days along with pocket calendar and postcard (Greenbauer-AZ).

RADIO YEREVAN: 17870, 128 days along with Intourist Brochure and sked (Ulmer-LA).

All QSLs were full data.....

ASIA

CHINA: Radio Beijing, 11795, 15120, 15520, f/d cards, stickers, pennants, (Wettersten-OH, Dan Johnson-CA, Robinson-TN, Krist-VA, Leite, MA, Pagano-DC). Congratulations to Frank Pagano of Washington, D.C. His 0118 GMT 1 January 1983 QSL was the winner in our Radio Peking/Leijing contest.

INDIA: All India Radio - Calcutta, 4820, f/d "Writers Building, Calcutta" card in 10 weeks, ms (Howard-CA).

INDONESIA: R.R.I. Kupang, 3385, n/d form letter in 5 weeks, 55 weeks total, II report, ms (Wilkins-CO).

JAPAN: Radio Japan, 17825, 21640, date/frequency cards in 55 days (Hosmer-MI), 39 days (Wettersten-OH), 33 days (Muzyka-NY), 32 days (Leite-MA), 22 days (McKinstry-VA). Sometimes Radio Japan will put the time of reception on the card, making it a true "f/d" one, but this is rare (kap).

KAMPUCHEA: Voice of the People of Kampuchea, 9695, frequency only note, Temple card and New Year's greetings in 1 year, report sent via Radio Hanoi (Sharp-FL). To those who have received no data information, might I suggest a report Direct to Phnon Penh, they do often issue f/d QSLs (kap).

KOREA, SOUTH: 9750, 11830, 15575, f/d cards, pennants, skeds, etc in an average 30 days (Wettersten-OH, Miller-CA, Hosmer-MI, Greenbauer-AZ, Muzyka-NY).

MONGOLIA: Radio Ulan Bator, 12070, f/d Logo card in 66 days (Wettersten).

NEPAL: Radio Nepal, 5005, f/d card and station booklet in 7 weeks, EE report \$1.00 US (better than IRC here) (Howard-CA), same in 47 days, EE report and the dollar bill (Sharp-FL). For those who think that sending a \$ bill is expensive, don't forget that 2 IRC cost a lot more (kap).

TAIWAN: Voice of Free China, 15345, f/d cd in 30 days (Speer-CA), Voice of Asia, 5980, f/d card and "goodie pack" in 50 days (Sato-Japan).

TURKEY: Voice of Turkey, 7215, f/d Costumes card and pennant in 54 weeks total, 4 weeks after follow up (Wilkins-CO), 9560, f/d card in 30 days (Sill-MA), same in 41 days, 3 IRC (Ledford-NJ).

and now, for some most embarrassing out-of-orders

INDIA: AIR, 11620, f/d card in 45 days (Roussel-NeB).

PAKISTAN: Radio Pakistan, 12015, f/d cd for FF report on FF transmission in 4 months (Rousell-NeB).

PHILIPPINES: FEBC-Manila, 11890, f/d QSL typed on back of paper pennant, along with nice 6" x 9" cloth pennant, sked and Christian Literature in 6 weeks, 3 IRC (Lobdell-MA).

SRI LANKA: Adventist World Radio via SLBC, 15120, f/d card, stamp, info sheet and reception report form in 69 days, IRC (Sato-Japan).

ANTARCTICA

LRA36, Radio Nacional Arcangel, 15474, date only personal letter in 95 days, EE report, 2 IRC (Welch-MA). Welcome to the "Way Down Under" Club, Frank (kap).

OCEANIA

AUSTRALIA: Radio Australia via Sheperton, 60880, f/d card in 25 days (Cord); 11725, in 25 days (Dan Johnson-CA); 17795, f/d cd in 21 days (Ryeder-FL); 21740, f/d card in 17 days (Starr-GA); ABC-VLW9, 9610, f/d Map Cards in 29 days, IRC (Parks-FL), in 36 days, IRC (Robinson-TN), in 22 days (Weikel-MI), in 21 days (Harris-OH); VLQ9, 9660, f/d Map card in 29 days (Harriss). One of the "Map" cards that ABC issues swos Papua New Guinea as part of Australia, though such has not been the case for several years now (kap).

COOK ISLANDS: Radio Cook Islands, 11760, f/d "Conch Blower" card in 26 days, 2 IRC (Stephany-NY).

GUAM: KTRR, 9505, f/d calendar card in 15 days, ms (Harriss-OH); 11840, f/d Logo card in 28 days, ms (Ward-PQ).

NEW ZEALAND: Radio New Zealand, 11960, f/d scenic card in 18 days, 2 IRC (Starr-GA); 11945, same in ??, 2 IRC (Ward-PQ); 17705, f/d card and sked in 11!!! days, IRC (Rising-CA).

SAIPAN: KYOI, 9670, f/d "Woodpecker" card in 10 weeks, ms (Welch-MA), same in 11 weeks, taped report, ms (Kapinos-MA); 15415, same in 30 days, IRC (Sato-Japan). Special thanks to Hiromasa Sato for the beautiful snow sculpture card you send me (kap). 9670, same cd in 25 days, ms (Radtke-CA).

SOLOMON ISLANDS: SIRC, 5020, f/d logo card in 29 days, ms (Ledford-NJ), same in 58 days, IRC (Sato-Japan); 9545, same in 19 days, 2 IRC (Greenbauer-AZ).

PAPUA NEW GUINEA: Radio North Solomons, 3322.5, f/d personal letter in 20 weeks after follow up, 77 weeks total, ms; Radio East New Britain, 3385, f/d PFC in 6 weeks, 3rd follow up, 101 weeks total, ms; Radio Western Highlands, 2450, n/d letter, paper pennant, blank "map" card 5 weeks after follow up, 28 weeks total, ms. This fine trio of reports all from Wilkins-CO.

SOUTH AMERICA

ARGENTINA: RAE, 9690, 11710, 15345, n/d cards, pennants, stickers, personal letters, etc in 38 days (Krist-VA), in 28 days, 2 IRC (Greenbauer-AZ), in 38 days (Starr-GA), in 31 days (Welch-MA), in 30 days (Baxter-KS), in 67 days (Casavant-PQ).

BRAZIL: Radio Guarini, 6175, p/d letter in 45 days, PP report, IRC (Sato-Japan); Radio Marumby, 9675, f/d PFC in 3 weeks after follow up, 94 weeks total, PP report, ms (Wilkins-CO), postcard and letter in 2 months, v/s Robertson Da Silva Cardoso (Stark-NeB); Radio Bras, 15290, 17830, f/d cards in 18 weeks (Wilkins-CO), in 153 days (Ledford-NJ), in 90 days (Wettersten-OH), in 83 days (Claytor-MI), in 46 days (Trager-CA), in 71 days (Gunter-NC).

BOLIVIA: Radio Panamericana, 6105, f/d Logo and Map card in 61 days, IRC (Sato-Japan).

COLOMBIA: Radio Super, 4875, date/time very friendly personal letter in 640 days (file cleaning time) along with stickers, SS report, ms (Kanopka-NY); La Voz de la Selva-Florencia, 6170, date/frequency personal letter and post card in a month, v/s Eliecer Leon, Director, SS report and tape along with ms (Lobdell-MA).

ECUADOR: Radio Pastaza, 3315, personal letter and nice looking multi color pennant in 29 days, SS report, ms (Schlesinger-TX); Rdif. Paz y Bien, 4820, f/d logo card, personal letter and pennant in 8 weeks, SS report, ms (Wilkins-CO); R. Cultural Antena Libre, 3240, date only personal letter in 5 weeks, v/s Luis E. Velasco Leon, Gerente, SS report, ms (Wilkins-CO); HCJE, The Voice of the Andes (how about the Amoses), various frequencies, f/d cards in an average 5 weeks (Hosmer-MI, Mecht-PA, Ryeder-FL, Mathew-MA) 91 days (Welch-MA), (Wilkins-CO), (Krist-VA).

****FALKLAND ISLANDS**** (Islas Malvinas); Falkland Islands Broadcasting Service, 2370, f/d letter and p/d QSL card in 2 months (Kana-GA). Nice to see this station back in the column (kap).

FRENCH GUIANA: FRC-Cayenne, 3385, f/d Map Folder in 34 days, 2 IRC (Led-Ford-NJ), in 19 weeks (Roussel-NeB); 5055, in 120 days along with stickers, 2 IRC (Ward-PQ); 11675, in 60 days, FF report (Van Horn-TX).

PERU: Radio Esmeralda, 3800, personal letter and postcard in 28 days, SS report, ms, v/s Bertha Diaz Meza (Schlesinger-TX).

NORTH AMERICA AND THE ISLANDS

ANTIGUA: BBC Relay, 6175, n/d card in 34 days (Starr-GA); 9510, same in 34 days (Hosmer-MI); Deutsche Welle Relay, 9545, n/d DW Broadcasting Center card in 30 days (Starr). Tough to get a f/d card out of this island, a PFC to the BBC relay sometimes works.

BELIZE: Radio Belize, 3285, f/d Map card in 19 days, IRC (Thunberg-PA); same in 16 days along with FM sticker, 2 IRC (Greenbauer-AZ).

BONAIRE: Radio Netherlands, 6165, f/d card in 45 days, IRC (Robinson-TN); 9590, same in 14 days (Smith-FL); 17695, same in 96 days (Welch-MA); 21685, same in 52 days (Muzyka-NY); Trans World Radio, 9535, f/d antenna card in 75 days, 2 IRC (McCants-AL). A reminder that RN and TWR do NOT share transmitter facilities. They are two separate stations, one at each end of the island. The February and March issues of the ANARC Newsletter have a most interesting and well done article on the island in general and TWR in particular. (kap).

CANADA: CKFX-Vancouver, 6080, date/freq "Super Country" card in 59 days (Speer-CA); CKZN-St. Johns, 6160, date/freq "CBC Newfoundland" card in 4 weeks, IRC (Wilkins-CO), in 33 days, ms (Stephany-NY).

COSTA RICA: Radio Reloj, 4832, p/d Logo card in 34 days, SS report, 2 IRC (Ulmer-LA); TIPC - Faro del Caribe, 5055, f/d Microphone card in 21 days (Sharp-FL), in 171 days, 2 IRC (Greenbauer-AZ), in 104 days along with pennant and calendar, ms (Stephany-NY); Radio Rumbos, 6078, f/d PFC, 6 weeks after 2nd follow up, 62 weeks total, SS report, ms (Wilkins-CO).

CUBA: Radio Havana Cuba, 11760, 11930, f/d cards in 70 days (Van Horn-TX), in 120 days (Sharp-FL), in 186 days (Rising-CA), in 24 weeks (Wilkins-CO), in 81 days (Muzyka-NY), in 154 days (Hecht-PA). There is some question as to whether or not the v/s Maria Montero Triana, actually exists or is this just a "pen name" for the v/s staff (kap).

GUATEMALA., TGNA, 3300, f/d Quetzal Card in 322 days, IRC (Gunter-NC); TGBA, Radio Maya De Barillas, 3325, f/d "Maya Warrior" card in 7 weeks, SS report, ms (Wilkins-CO); TGTZ-Radio Tezulatland, 4835, f/d card in 47 days, SS report, IRC (Roussel-NeB).

MEXICO: KEPPM, Radio Educacion, 6185, p/d form letter and photo of station building 25 weeks after follow up, 65 weeks total, SS report, ms (Wilkins); same in 204 days, SS report, ms (Schlesinger-TX).

NICARAGUA: La Voz de Nicaragua, 5955, partial data letters and pennants in an average 45 days were received by (Weikel-MI, Greenbauer-AZ, Ulmer-LA, Stephany-NY, Spremo-NY, Collins-CO, Van Horn-TX, Rising-CA, Wettersten-OH). Whether or no rp was sent didn't seem to matter, also SS and EE reports are acceptable. LVN is really proud of their new EE service (kap).

UNITED STATES OF AMERICA: United Nations Radio via Greenville, 11740, f/d UN Building card in 8 days (Greenbauer-AZ); WRNO-New Orleans, 6155, f/d DX Club Member card in 55 days (Howard-MO), 17895, same in 65 days (Spremo-NY); Voice of Free China via WYFR, 5985, f/d Chinese Paper Cutting card in 180 days along with sked, literature and date book (Ross-ONT); WYFR-Florida, 6065, f/d card and bumper sticker in 53 days (McCants-AL).....

U.S.A. Pirates: KPHU, ???? , f/d card in 50 days, SASE; WTOF, 7425, f/d letter in 40 days, SASE; Voice of Syncom, 6250, f/d letter in 40 weeks, SASE (Baxter-KS).

CLANDESTINE: Radio Venceremos, 6906, f/d prepared card in 18 days after follow up, SS report, IRC (Wilkins-CO).

KAP'S KOMMENTS: Contrary to what I said last month, there will be no April "SWAPS" Next issue goes to press on May 1, with a April 25 deadline.

Now on to some commonly asked questions that time precludes from answering individually. To have a fighting chance to get a QSL out of a Latin American station broadcasting in Spanish (or a Brazilian in Portugese) it is almost imperative to sent a report in the proper language. The BEST guide to writing foreign language reports is SPEEDX own "Foreign Language Report Guide" which Don Johnson at Lake Elsinore loves to all but give away at a most reasonable price. Drop Don a line, along with the obligatory SASE and he'll send you the info, that is, if you've lost your New Members Packet which has this information. SPEEDX has also got some super Tri-Lingual reporting forms, but you've got to earn these, via credit points. Don has the info on that also.

Awards? Heck yes, SPEEDX has a super program. And, we go by the honor system, for those who do not collect QSLs. The proper address for the info is: Jack Jones, 304 Robinhood Road, Jackson, MS 39206. Cost for the "Country List" and the entire awards program info sheet is \$1.00..

How to get pennants? Ask for them, that's how. Some folks feel that asking for a pennant might jeopardize getting a QSL from the station. That is not so. Many stations, especially some of the Major Internationals, do have certain requirements for getting a pennant, such as so many reports, membership in a "house" DX club and the like.

As for enclosures to send to stations, used U.S. commemorative stamps are always welcome by staff members. If you don't get much mail, the 2¢ each box at your local stamp collector store is a goldmine. Also, local post-cards are a nice touch, if you live in a small town, try to get cards from that town, rather from a nearby major city. Yes, the clerk at Turnpike Pharmacy does look at me rather strangely when I buy "Shrewsbury Town Hall" cards 50 at a time, especially when the building pictured on the card was torn down years ago and replaced by a modern one. Photos of you and your equipment are also most welcome by stations. Sounds a bit expensive, but it's really not. Even if you have to buy the used stamps, (and send only 10 or so), total outlay will be less than the cost of an IRC. Yes, you should also send return postage to most small stations, whether in the form of IRC or mint stamps of the country involved. Best source of mint stamps that I know of is: DX Stamp Service, 7661 Roder Parkway, Ontario, NY 14519. Send George an SASE for his latest price list and tell him you saw the address in Kap's column in SPEEDX.

There is also a good source for "report cards" in EE, PP, SS and FF. An SASE to William J. Plum, 124 Hillside Terrace, Irvington, NJ 0711 will get you the info. Enclose a buck and I'm sure that Bill will send you a sample of each.

Yes, it's true, I did get a new radio, the Kenwood R-2000. Just got it a couple of days ago, and doing this column has tied up my time, but if first impressions are lasting ones, I am going to be very happy with it.

One more note, and goodnight. I must strictly abide by the 12th of the Month deadline. Only exception is if the 12th is on a Sunday, then we extend it one day. Otherwise, anything received on the 13th or after will be held over to the following month.

Tips and Topics

THE FEATURE SECTION OF SPEEDX

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TECHNICAL ROUNDUP

EQUIPMENT, ANTENNAS, RECEIVERS,
ACCESSORIES, AND NEW IDEAS

ICOM'S IC-R70 RECEIVER: A PRODUCT REVIEW

by Bob Palmer, WA

reviewers who have extensive experience with more expensive and exotic receivers are saying it is only slightly outdone by the Drake R-7A and about equal to the NRD-515. If you are in the market for a higher class receiver, check suppliers' list prices on "Nerds" and Drakes first, then see your ICOM dealer and check out the R70 and its price. I got mine for \$649 here in Spokane but I did have to pay an added \$40.20 in sales tax.

I had been using a Kenwood R-1000, and after buying the R70 I was able to make back-to-back comparisons. It was no contest at all. The R70 won in every category, but the most impressive thing was the R70's ability to make audible and enjoyable, signals that on the Kenwood were almost destroyed. To illustrate, imagine that you want to tune a signal which is running S-2 to S-3 while 5 kHz away is another signal running 'way over S-9 and covering one sideband of your signal with "slopover". Further imagine that on the other side of your signal there's an annoying "het". The R70 will not only wipe out all the "slop", it will eliminate the heterodyne interference, and if that's not enough, the audio quality will be almost as good as though the signal had been completely in the clear!

In the sensitivity department, I've never seen anything like it. I'm not talking about meter-busting gain made up mostly of noise, but usable sensitivity. The shielding and internal noise suppression on the R70 are absolutely superior. It is quiet as a mouse. Signals that don't raise the meter needle at all are quite easily readable. I know what you are thinking—that no S-meter is to be trusted; but the dealer adjusted it at the shop to roughly parallel his ICOM 740 transceiver, which was known to have quite an accurate meter. On the other hand, many signals require attenuation. This usable sensitivity is very helpful on indoor antennas; this, from personal experience. I get very satisfactory reception on less than 10m of wire inside my house. One has to attenuate most of the time on MW stations, but even if you forget to switch in the 20db attenuator, the fantastic dynamic range of the radio subdues any tendency to overload.

The abundance of usable sensitivity is further complemented by the stability of the R70. I don't intend to get into manufacturer's promo statements in this review. (See full page ad, p. 5., 1983 WRTVH) Suffice to say, one night I tuned in R. Netherlands - Bonaire on 6165 kHz, pushed the button for lower sideband, pushed another button to set the tuning rate at 1 kHz per complete revolution of the tuning dial, easily got the BFO on the exact center of RN's carrier, and went off to do other things for an hour. On returning to the set I found almost no audible drift—perhaps as much as 10 Hz. With this receiver you can tune and enjoy a SSB signal, plus, if things get really crowded, you can tune an AM station in ECSS mode and sit back and enjoy it without any "touchup" tuning after a few minutes. There is also an RIT (fine-tune) control separate from the main tuning setup which one can switch in or out, that allows a deviation of plus-or-minus 800 Hz from the tuned frequency—without changing the digital frequency readout.

The R70 is fully synthesized and uses a triple phase-locked loop. The logic unit is microcomputer controlled. There is a pushbutton choice of three tuning rates: 10, 100, or 1000 Hz per increment. This gives a great deal of flexibility in tuning: one revolution of the main tuning dial can change frequency by 1 kHz, 10 kHz, or 100 kHz depending on which button you push. The slowest rate is just right for fine tuning SSB signals, the moderate rate works fine for slow band-scans, and the fast rate gets you from one end of a tuning range to another very quickly. There is also an electronic "lock" which holds exact frequency if that button is pushed. This prevents detuning if the main tuning dial is bumped or rotated accidentally.

Another novel feature is dual band-selection capability. A pushbutton allows selection of "ham" bands only, or of general coverage capability, in ranges of 1000 kHz each. To change bands in either case, just push the "up" or the "down" button. There is no automatic advance available by holding the button down, so one has to use multiple pushes to change from, say 21 MHz to 15 MHz. This is one of very few annoyances on the R70.

Frequency readout is, of course, digital, in increments of 0.1 kHz. I checked once out of curiosity and at the slowest tuning rate it takes a movement of about 3/4 inch on the circumference of the main tuning dial to change the readout 0.1 kHz. Now that is what I would call FINE tuning capability. At that tuning rate it's a breeze to tune SSB signals. There's absolutely no backlash or dial looseness, and there's even a user-serviceable brake adjustment on the main dial shaft.

The set operates on either 117V AC or 235V AC. 100V, 200V, or 220V AC requires internal mods. The manual says the set can be converted for DC operation.

Given the superb sensitivity of the R70, there is a separate provision for a MW antenna. One ought to be able to hook up a BCB loop easily. However, if a switch on the back panel is thrown, you can receive MW using your shortwave antenna. This will necessitate judicious use of the attenuator, though.

The unit is not large at all—about the size of the Kenwood R-1000, but deeper; that is, with the set resting on your desk surface, it will project further toward you. The front panel is loaded with controls, and they are, of necessity, very small. Some are paired and concentrically mounted to save space. They didn't compromise on the size of the main tuning dial—it's a full 6-3/4 in. in circumference. The controls are well-marked and neatly and logically laid out.

The are two separate VFOs and with pushbutton controls one can store a frequency while tuning another, and even swap control back and forth between the VFOs at will. This is quite useful in hunting parallel frequencies, since one can instantly summon up the stored frequency from the other VFO when one wishes to make a comparison.

ICOM claims that this is a quadruple conversion rig, but that takes some explaining, and they didn't. All I can figure is that when the passband tuning control is in use, the second IF figure is up-converted 455 kHz and then down-converted the same amount to feed the third IF stage. Apparently with the OBT out of the circuit, it's just double conversion.

Reception modes available stock are AM, SSB, CW RTTY, and as an option, FM.

There's a front-mounted speaker which, though small in size, produces excellent audio. Also, on the front panel is a tone control which is so effective it, in itself, can eliminate many annoyances that are present on so many signals nowadays. A rearpanel jack (miniature) allows use of an outboard speaker, but there's no need for one, in my opinion.

The noise blander which they install in the set is like most in that it doesn't do all you'd want it to. One can select two widths: wide and narrow. I've found it to be ineffective on powerline noise, but it does cut out interference from auto ignitions, electric drills and that sort of thing. If your wife is vacuuming in the next room, however..... These things have limits to their capabilities. Concerning the Russian "woodpecker", it isn't bad in the wide mode, but it doesn't completely silence it. Strong ones swamp it, and "woody" comes through loud and clear.

The AGC circuit is quite effective. "Slow" mode handles most tuning, but there's also a "fast" mode, and one can also switch it completely out of the circuit.

Jacks for earphones and for external recording are on the front panel.

Another switch (3-way) selects either reception as-is, 20db of attenuation, or 15db or so of pre-amplification. The pre-amp is very well shielded, as there's no audible evidence that it's in the circuit other than a boost in signal strength. It is fair to say, though, that the set doesn't attain the extreme sensitivity attributed to it until the pre-amp is switched in. There's also an RF gain control. (Kenwood didn't think this was important.) And believe it or not, it has a squelch control! How often do you see this feature on a general coverage receiver?

Selectivity controls include ICOM's own version of passband tuning, a notch, and the users own judicious use of detuning off-frequency.

The PBT arrangement needs explaining. The built in AM filter is quite broad at 6 kHz, but relatively flat on top. It's probably a better grade ceramic. Shape factor is lousy: 3:1. When the PBT control is "on" the bandwidth can be narrowed continually up to a maximum of plus-or-minus 3.3 kHz, from either side of the passband. In sharpest position you have a 2.7 kHz wide passband lying to the left of the carrier frequency, or to the right of it, depending on which way you rotated the PBT control. The results are similar in SSB and CW modes, except for narrower filters and that in SSB mode the BFO isn't

centered in the middle of the passband at the start, so you can lose the signal completely if you turn the PBT control too far in the wrong direction. Something similar to this happens in the AM mode. In the extreme clockwise or counterclockwise position the control is knocking off some of the carrier so signal strength will be down noticeably on the S-meter. Nevertheless, even in the sharpest configuration, audio quality remains good since nearly all of one sideband is retained. Really, this device is almost 100% efficient in eliminating "slop" from nearby signals. Of course if you're trying to clear up a signal that's barely raising the needle on its own and it's 5 kHz away from a signal that just about "pins the meter" all one can expect is considerable improvement and not total eradication of the problem. It wipes "hets" too, provided they lie within the sideband you're attenuating, and in this case they're gone—no vestiges remain.

What you can't get rid of with PBT, you can usually get rid of with the notch. It's 30db deep, very sharp, and spans a usable range of plus-or-minus 1.3 kHz. However, in AM mode, the notch is centered about 2 kHz below the displayed frequency. It is well-centered for SSB and CW operation. Detuning somewhat on AM helps to bring the notch into the ballpark, so to speak.

One has to remember that this radio's ancestors were engineered as SSB transceivers and probably the AM capability was offered in the R70 as an attempt to siden the market to include SWLs as well as to entice the occasional "ham" who is also interested in general band-tuning throughout the spectrum. To keep the price competitive, which it most certainly is at \$650, certain compromises with excellence had to be made.

The first of these is the wide and mediocre quality AM filters. 6 kHz is too wide nowadays; 4 kHz with a better shape factor would have been a better choice. Still the installed filters aren't nearly so wide as the 6 kHz filters in the modified Kenwood I had.

The second compromise, and a really weird one, is that the second IF center frequencies are offset from one another as much as 1.5 kHz in the various modes of reception. This makes for some very confusing anomalies at the ends of each 1000 kHz range. This I won't get into. Read the reviews of others; but don't let it scare you off. One does have to learn a lot to get the most out of this set, but it's worth it. Assuming you're looking for a really outstanding receiver with the capabilities this one has, you're not going to mind. Especially for only \$650!

One last littlenicity: the digital display, on its left end, even shows which mode you're tuning and which BFO (A or B) you're using.

As far as I could determine, there's no misleading "hype" in the specs that they don't back up with performance. ICOM is selling an outstanding piece of equipment for a price that is almost ridiculously low. As little as two years ago, comparable equipment was selling for more than twice the price of the R70 today.

On a final note, I encourage others to write up their own views on the ICOM IC-R70 and send them to "Tips and Topics". Several opinions tend to give an objective balance to the discussion of any topic. I'm sure Art will welcome your contribution to "Tips and Topics", so let's hear it from out there "for" (or "against") the R70!

ICOM AND DRAKE COMPARISON

by Ronald Pokatiloff

This comparison was made with data taken from reviews, company information sheets, and the personal experience of this writer.

<u>ITEM</u>	<u>ICOM IC-R70</u>	<u>Drake R7A</u>
Sensitivity	Outstanding	Outstanding
Dynamic Range	Outstanding	The best
Spurs	Some	Free
Hum	Some	None
Audio	The best	Fairly good
Overall Selectivity	Excellent	The best
Filter quality	Excellent	Excellent
Filter Selection	6 kHz, 2.3 kHz, 500 Hz 6 kHz narrow to 4.5 2.3 narrow to 500 Hz	5 (6 kHz - 300 Hz)
Stability	No drift	Up to 200 Hz
Digital Readout	To 100 Hz	To 100 Hz
Ultimate readout	To 3 Hz	To about 30 Hz
Tuning Speeds	1 kHz, 100 Hz, 10 Hz	One
Tuning ease	Very good	Fair
Passband tuning	Excellent (Combination IF shift and selectivity?)	Outstanding, Full passband
Noise blanker	outstanding—2 widths	Excellent

<u>ITEM</u>	<u>ICOM IC-R70</u>	<u>DRAKE R7A</u>
AGC	Excellent—slow-fast-off	The best—slow-med.—fast-off
RF-AF gains	very good	excellent
Squelch	Yes-good	none
Tone Control	Yes-very good	none
Main Tuning Dial	The best—easily adjustable	Fair
S-meter	The best	Outstanding
Fine Tuning	The Best	Outstanding
Notch	Very good, 30db	Better, 40db
Memories	2 VFO's	8. Fixed crystals, optional.
Modes	AM-SSB-CW-RTTY Auto-offset, reads carrier FM optional	AM-SSB (reads carrier) No offset for CW or RTTY
AM	Excellent (Best audio)	Excellent, synchro-phase, but only <u>fair</u> audio
SSB	The best	Excellent
EC SSB	The best	Excellent
CW	the best	excellent
Preamp	excellent—switched	excellent—switched
Attenuator	20 db	none—not needed
Appearance	very good	the best
Parts-workmanship	very good	outstanding
Ease of service	small enclosure	outstanding
Inputs-outputs	phones, ex. speaker, scope, 2 antennas, ground, AC, accessory socket, mute, convertor, audio etc.	phones, ex. speaker, 3 antennas, external receiver, interface, freq. counter, audio, etc.
Power	AC/DC	AC/DC
Misc. Features	Simmer, dial lock	Mute, cal., RIT Freq. offset
Antenna	1-general, COAX 2-Low band	2 antennas for 2 radios. 1 antenna for converter, outstanding antenna system
Accessories	High quality SSB <u>passband</u> filter, narrow CW filter, FM mode, speaker	Some filters, fixed crystals, board, speaker, interface cable it, others
External Control	Not available, but computer can be used. . .with instructions from ICOM's main American office	RV75 synthesized VFO. . .better stability, tuning rate adj., 10 Hz resolution, 3 programmable fixed freq.
Price	\$750.00 List	\$1650 List
USES:		
Ham	The Best	Excellent
UTE Listening	The Best	Excellent
UTE DXing	Outstanding	Outstanding
BC listening	The best	excellent
BC DXing	excellent	The Best

OPINIONS AND VIEWS

VIEWPOINTS ON A VARIETY OF TOPICS
RELATED TO DXING AND SWLING

A REBUTTAL TO RESPONSE TO A RESPONSE

by Peter C. Card, RI W1WDD

From reading the latest epistle regarding the issue of ham radio vs. SWling debate by Tom Phillips, I find there are statements made without qualification which deserve rebuttal.

For a start, let's take up the point of contention where the SWL only has to hear the station vs. the ham operator having to be heard in return with an exchange of reports

to qualify for QSLs. The first complaint is that the average QSO is of the duration measured in seconds vs. an hour's listening to a SW station. When one considers that over 10,000 QSOs are produced by a DX operation of a limited time of a few days, the SWL QSO rule is simply unrealistic. An exercise in arithmetic would prove it would take at least 10,000 hours or over a year to accomplish the job. This based on the assumption of continuous operation and ideal round-the-clock propagation existing. Who or what organization or individual has the capacity in time and finances to conduct such an undertaking under SWL QSL rules? The difference of QSL rules has got to be obvious.

How many ham operators do you know that have a QSL for a QSO with China? Albania? Have you forgotten that for over 30 years China has forbidden ham radio until recently? Albania is another of the same category. Yet as an SWL, one only has to spin the dial of his receiver to a given frequency and BINGO: you have Radio Peiping with no sweat. The same with Albania, etc. Yet, you complain that there is an hours effort of listening, making out reports, etc. It should be obvious that QSLs for those places should be a dime-a-dozen in the ranks of SWLs in spite of their efforts to obtain them.

There is the complaint of time and monotony in the effort to obtain a QSL card. Mr. Phillips overlooks the fact that ham radio operators do not have lists of fixed times and frequencies on hand to look up and work their desired countries as if by a time table. What about the monotony involved when scanning the bands for hours if not days in quest for that elusive DX? Not to be overlooked is the probability of others involved in the same game ready to beat you to the draw. This activity is pursued with the knowledge that the DX in question has random activity and random frequencies of operation. Also, the probability of no DX becomes an accepted risk in the game. Thus, SWLs are not the only ones with their problems of monotony.

The so called carefree operator does not always get to work dozens of countries with time out for typing on the feed bag for the given time it takes to satisfy the requirement for one SWL QSL. What is overlooked is the old reciprocity theorem: if you can't hear them; you can't work them. Propagation is a big factor with the time differences of locations to be considered as well. Dozens of countries? Hell no! Dozens from the same country would be nearer the truth when one considers the populations of ham operators in West European countries being very numerous. The exception to the rule possibly being an ARRL or CQ DX Contest with ideal propagation conditions. Otherwise that dozens of countries claim is invalid.

When it comes to the complaint of costs of QSLs, IRCs, etc. I always like to relate to the story of how J.P. Morgan was asked what it costs to operate his yacht. His answer to the effect being that if you got to worry about the cost, you cannot afford to own a yacht. Perhaps the same could apply to SWLing and ham radio when one complains of QSL card costs.

Another misleading statement is that one goes to the store and purchases the equipment for that big signal. Mr. Phillips, have you forgotten those police powers exercised by municipalities known as zoning laws that limit one's desire to put up the antenna to go with that big signal? There are relatively few with the large real estate for those big antenna systems. With this country in a severe recession, it is very doubtful there are many hams able to buy such equipment when one considers the sale of cars and houses being at an all-time-low in these times.

Regarding the "Bad Apple" syndrome by Mr. Phillips empirical observation on the PYO undertaking, he mentions how they were listening 14200 up while transmitting on 14195; but, he omits the fact they stated that they were listening all the way up to 14300; hence, 100 kHz of the band taken up for listening to replies. Such an excessive use of frequencies only result in Russian roulette and/or frustration as the consequence of poor control. No wonder there were so many who showed their frustrations by the name calling, profanity, and QRM on their frequency. Yes, Mr. Phillips, I was there to hear it all for myself. Considering their poor control of the situation, I could not blame them. With 30 years experience in chasing EX as qualification, I would rate them among the poorest operators in all my time.

As further proof of my claim, I did conduct an experiment by calling them about 100 kHz up from the bottom edge as directed for 45 minutes with no response. I did check for a clear frequency periodically. Now, can you really claim that they were listening up that far in spite of their giving directions to that effect? For one who is knowledgeable of mathematical statistics and probability, I claim a grade school kid can easily form his hypothesis on that issue. Need I say more?

Regarding your respect for the QRP operator who has to work his way through the "Big Guns" by using his operating skills to the maximum, I will inform you that calling from the high end is an old trick that is utilized by them. Time after time I have used it with one or two calls to get a QSO by the result of a smart operator at the other end. By this classic maneuver, the QRP operator works his way around, not through the "Big Guns"! However, the PYO operators were not that intelligent according to the results of my experiment; hence, it was a rare exception that this classic maneuver failed.

In closing, I have no objection when anybody tries to take me on in the subject of ham radio, provided he is qualified, knowledgeable and knows what he is talking about; otherwise, he is fair game for me to go after him with no holds barred in reply to his claims and in defense of ham radio.

AND THAT'S THE WAY IT WAS In January I went back to my first love, shortwave listening, when I purchased a new ICF-2001. As I pushed the buttons and listened to the synthesizer swish in this interesting receiver, my memory took me back to my introduction to the hobby during World War II.

Everything was simpler then; the equipment, the band congestion and the interference it produced. But the listening was exciting to anyone of any age, much less an early teenager.

As I turned the dial for the first time on the second-hand Philco console radio my parents had purchased for me for \$45, one of the first (if not the first) stations I heard was the BBC, London. Immediately my imagination took over as I visualized a distinguished Oxford-accented British announcer speaking so distinctly and calmly in what I imagined was a studio three stories underground while London was being blown apart by the German air force. To a kid wondering what was going to happen to the world, it seemed reassuring.

Over the next couple of years, there were many thrills, but none to equal two letters I received. Both were from parents of American POWs, one held by the Japanese, the other by the Germans. I had copied POW messages to home from Radio Tokyo and Radio Berlin and forwarded them to the anxious parents. One letter indicated it was the first word of substance received from the imprisoned son. Those two letters were lost long ago in moves around the country, but the memory of them will never fade.

The enemy didn't always do its homework in its propaganda barrages. There was the broadcast from Radio Berlin during a time of severe flooding in southeast Kansas. The German broadcast reported that "all of the coffee in Coffeyville, Kansas had been destroyed by the flood!!!"

SWling and DXing bring fascinating experiences, and in some ways I enjoy it more than amateur radio (I've been a ham since shortly after the war). But the young dial-twisters and button pushers of today have not known the excitement of monitoring shortwave broadcasts during a world war. Let's all pray they will never have the opportunity to do so.

REVIEW OF THE SHORTWAVE LISTENER'S HANDBOOK

Author: Robert J. Traister

Tab Books Inc., Blue Ridge Summit, PA 17214

Reviewer Bob Flick, MO

Mr. Traister is the author of a better known book, How to Build Hidden, Limited-Space Antennas That Work which is directed primarily to the radio amateur fraternity. In The Shortwave

Listener Handbook, Mr. Traister directs his efforts to the beginning shortwave listener who has no technical knowledge.

In this ten chapter, 191 page book, the beginning shortwave listener is given specific instructions to build 25 shortwave antennas. All the antennas in the book are designed for the 4 - 7 - 13 & 26 MHz bands. There is no mention in the book of the 13 - 16 - 19 - 25 - 31 - 41 or 49 meter bands and no mentions of the frequencies which they occupy. The new shortwave listener is given one short paragraph on how to convert the antenna projects to usable frequencies.

The shortwave enthusiast who buys this book could very well build an antenna far removed from their frequencies of interest. Little knowledge of how to calculate antenna lengths for various frequencies will be gained.

This book has an attractive bright red cover with a shortwave receiver tilted provocatively at an angle. Unfortunately, the cover is the only attractive thing about this book. Mr. Traister leaves the beginning shortwave listener as ignorant of antennas as he was before he bought the book. The unfortunate shortwave listener is out \$9.95.

WHAT'S NEW: In a few months, Tips and Topics will have a new department. It will be a question and answer section edited by Chris Hansen which will appear semi-monthly. See, old editors never disappear; they just go on to something new.

FINIS: At this point let me remind you to please enclose a SASE when asking me to reply to a letter and please keep those contributions coming. Best wishes and 73's,

CONTRIBUTORS LIST:

APRIL 1983

Edited by Mark Koukol, P.O. Box 321, De Kalb, IL 60115

Another good showing with 182 contributors. All sections were in for this month except Asia/Oceania.

Contributions including, wholly or in part, credit from last month are marked by an asterisk. Sections other than WH/EU/AF/AO/UT/Skeds/QSLs are credited directly by the membership chairman and do not appear here.

3	ADDISON, Joe	KS	R-600	1	HOLBROOK, Hank	MD	HQ-129
1	AKED, Roger	FRANCE	NRD-515	1	HORVITZ, Robert	RI	?
1	ALEXANDER, Brian	PA	R4/FRG7700	5	HOSMER, Don	MI	RF-3100
1	ALEXANDER, Rodney	IA	SPR-4	3	HOTALING, Stan	NV	RF-2800
2	ALEXANDER, Sam	NC	DX-302	6	HOWARD, Roberta	MO	DX-302
1	ANNIS, Bill	IN	SPR-4	1	HOWARD, Ron	CA	SB-310
2	BAIR, Mason	CA	IC-R70	1	HUFFAKER, Carl	MEX	Homebrew
1	BAXTER, Kirk	KS	?	3	JAMES, Tom	FPONY	ICF7600A
1	BEAL, Hobart	WA	R4C	5	JOHNSON, Dan	CA	DX-302
5	BERRI, Jason	CA	RF-2900	3	JONES, Brian	TX	DX-302
2	BLACK, Don	MA	IC-720A	1	JONES, Jack	MS	R-600
1	BREVILLE, Walt	MO	R-1000	1	KANA, John	GA	?
4	BREWER, Don	AR	ICF-2001	2	KANOPKA, Leon	NY	DX-300
1	CAMPBELL, Bruce	NY	?	1	KAPINOS, John	MA	FRG-7
1	CAMPBELL, Cornelia	DE	NRD-515	1	KERR, Ian	UK	?
6	CARD, Peter	RI	NRD-505	4*	KERRIGAN, Patrick	IL	R-1000
3	CARLSON, Virgil	WA	SX-190	1	KLINGENFUSS, Joerg	FRG	R7/NRD515
1	CASAVANT, Richard	PQ	DX-200	1	KONEN, Mark	WI	IC-R70
1	CEREGHIN, John	MD	DX-302	6	KRIST, Kraig	VA	FRG-7700
1	CHABAK, Mike	AZ	HQ-180	1	KROLAK, Eugene	MI	FRG-7700
1	CHINSKY, Mark	NY	RF-2600	2	LANGLOIS, Harold	GA	NG-98
2	CLAYTOR, Dave	MI	R-1000	1	LEARY, Robert	OH	FRG-7700
1	COLLINS, J.	OR	?	1	LEDFORD, John	NJ	?
1	COMPTON, Ken	MA	?	1	LEITE, Steve	MA	HQ-180A
1	CONWAY, Peter	UK	51J4	3	LEONARD, Mike	ME	R-1000
4	COX, Jim	CA	R-600	1	LEVIN, Jay	NJ	RF-2800
1	CREAMER, John	CO	R-1000	1	LEW, Scott	CA	?
1	CUNNINGHAM, Larry	OH	FRG-7700	1	LINDLEY, Terry	AL	DX-300
1	CURTIS, Robert	VT	SP-600	1	LOBDELL, Chris	MA	FRG-7000
4	D'ANGELO, Richard	PA	NC-190	4	LORD, Earle	CA	FRG-7700
5	DEMMITT, John	PA	Homebrew	4	LUCAS, Richard	CA	R-1000
1	DEVENDORF, Chris	CA	SPR-4	3	MCCANTS, Don	AL	RF-2299
2	DROLLINGER, Rick	WI	HQ-160	4	MCKEON, Thomas	IN	?
4	DUNCAN, Gregory	NC	DX-302	2	MCKINSTRY, Mike	VA	NRD-515
4	EVANS, James	TN	RF-2200	3	MANNING, Sandra	NM	FRG-7700
4	FAMA, L.	CA	ICF-2001	4	MATHEW, Abbie	MA	FRG-7700
3	FAMULARO, Ralph	NJ	RF-2800	4	MILLER, Bill	CA	DX-300
1	FLANNAGAN, Melvin	VA	DX-302	2	MILLER, John	GA	?
1	FLICK, Bob	MO	DX-300	1	MOORE, Alex	UK	R7/DR7
4	FORBES, Lew	TX	FRG-7	6	MOORE, Michael	TX	DX-302
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3	HARRELL, Rich	IL	RF-2900	1	OSTERMAN, Fred	OH	NRD-515
5	HARRIS, Mike	OH	DX-302	1	PAGANO, Frank	DC	Racal
1	HARTUNG, Jim	MD	DR-7	4	PALMER, Bob	WA	IC-R70
4	HARVEY, Sheldon	PQ	DX-160	4	PARKS, Bill	FL	HRG-60
1	HATTAN, Chris	NZ	?	2	PAUL, Don	AZ	FRG-7700
5	HECHT, Bob	PA	RF-4900	2*	PETTENGILL, Roger	ME	NRD-515
1	HEIN, Don	PA	?	2*	PFEFFER, Morris	NY	RF-2200
4	HENSLEY, Wayne	TX	RF-2600	1	PHILIP, Joyce	BC	CRF-5100
6	HESCH, Ruth	NY	R-1000	3	PIATELLI, Mario	CA	IC-R70
3	HILL, Elaine	SC	FRG-7700	1	PIMBLETT, Nigel	AB	R-600

1	POLSGROVE, Bill	MS	?	4	STECK, R.	IL	R-1000
4	PRESTON, Bill	CA	R-600	1	STEIN, Rick	NJ	FRG-7000
1	PRINGLE, Charles	CO	R-1000	4	STEPHANY, Nolan	NY	R-392
1	RADTKE, Carl	CA	SPR-4	2	STONE, Wilfred	ON	FRG-7000
1	RANKIN, Robert	KS	DR7	2	STREETER, Robert	NY	R4B/SX100
3	RAY, Richard	PA	FRG-7700	1	SUGAI, Kazuhiro	JP	RF-1330
2	RAYMOND, Bob	MA	FRG-7	3	TATE, Harold	WV	Sears 412
6	RISING, Allen	CA	IC-R70	3*	TAYLOR, John	MO	DX-160
1	ROBERTS, Allen	HOLL	?	1	THOMPSON, Glenn	NM	FRG-7
5	ROBICHAUD, Ivan	NB	R-1000	5	THOMPSON, Peggy	CA	FRG-7
5	ROBINSON, Betsy	TN	ICF-2001	4	THUNBERG, Bob	PA	HQ-200
1	ROSS, Robert	ON	FR-1015	5	TILLEY, Doug	CO	FRG-7700
1	ROUSSEL, Roger	NB	R-1000	3	TRENT, John	AK	RF-2900
4	RYEDER, Redd	FL	GE-WM2	4	TRAGER, Tim	CA	FRG-7700
2	SABLE, Tom	NY	ICF-2001	1	TYLER, Tim	MI	R-1000
3	SAMPSON, Dan	WI	?	6	ULMER, Doug	LA	R-1000
4	SANDERSON, John	AZ	R-1000	5	VALENTINE, Fred	CA	IC-R70
1	SATO, Hiromasa	JP	?	3	VAN HORN, Gayle	TX	RF-3100
2	SCHLESINGER, Mark	TX	FRG-7	1	WALEGA, Gene	OH	R-390A
4	SCHROEDER, Art	WI	DX-160	1	WARD, Henry	PQ	FRG-7000
6	SCHULSINGER, Mike	OH	FRG7/R390A	2	WEIKEL, Frank	MI	S-38E
2	SHARP, David	FL	HQ-129X	1	WELCH, Frank	MA	ICF-6800W
2	SHARPE, Bryan	CA	DX302/DX60	1	WERTEPNY, Doug	MB	?
1	SHEPHERD, Greg	IL	DX-300	6	WETTERSTEN, Phil	OH	RF-2900
2	SHOROCK, Don	KS	ICF-2001	1	WILKINS, John	CO	R-1000
4	SILL, John	MA	?	1	WILLIAMS, John	MN	ITT-3010C2
3	SMITH, Tom	FL	XCR-30	3	WIMMERS, Bernie	VA	R-1000
3	SMITH, Traver	CA	NRD-505	1	WITTE, Marjorie	CA	FRG-7
2	SOMERS, Jack	CA	IC-R70	4	WOOD, Stephen	LA	DX-300
1	SPARKS, Bill	CA	R4B	2	WOROB, Philip	TX	DX-160
1	SPEER, Richard	CA	RF-2900	1	YAJKO, Robert	PA	SPR-4
4	SPREMO, Alfred	NY	FRG-7700	1	YINGLING, Tom	MD	FRG-7700
1	STAR, Chris	NB	ICF-6800W	2	ZILMER, Bob	NM	FR-100
4	STARR, Tim	GA	DX-302	4	ZOLLA, Rick	CA	FRG-7

Thanks to James Cox, Mark Konen, and Cornelia Campbell for writing re receiver changes. Please let me or one of the editors know if your receiver has changed, or if it appears as a "?" in my list.

Last month I gave the address of Hank Bennett for obtaining WDX calls; well, the P.O. Box was in error, it should read "333" not "3333". Here is the correct address: Hank Bennett, P.O. Box 333, Cherry Hill, NJ, 08002. Also note different zip! This address is from John Kapinos's "Swaps Newsletter". Enclose a SASE.

73s, Mark w0xjrkv/w0qfkr

FOR SALE: SPR-4 w/xtal calibrator, NB and full xtal board. Very good condition with relatively few operating hours, \$350. Factory calibrated in 1980. Tom Keesling, 4036 E. 62nd Street, Indianapolis, IN 46220. Phone (317) 255-9739. No Collects Please

WANTED: Allied AX-190 Receiver with external speaker in excellent condition. Greg Raymond, 25-9 Victor Street, Haverhill, MA 01830.

FOR SALE OR TRADE: Kenwood R-2000, \$450. Will trade for any McKay Dymek HF receiver in excellent condition. Ronald Pokatilloff, 2661 Sheridan Road, Zion, IL 60099 or phone (312) 872-3633 anytime. No Collects

FOR SALE: M.B.A.-R0 Morse-Baudot-ASCII reader, 3 months old, mint condition. 32 char's for easy hi-speed copy. Included are AC adapter, manual, and World Press Frequencies book. Must sell, \$230, including shipping. Cashiers check or M.O. to Elaine Hill, Rt 2 Box 201, Skyland Drive, Clinton, SC 29325

GERRY MOUNTAIN wishes to correspond with anyone using the ZX81 or Timex/Sinclair 1000 computer. Programming tips appreciated. #405-155 Wakesiah Ave., Nanaimo, BC Canada V9R 3K1

FOR SALE: Drake SPR-4 with 24 crystals, AL-4 loop antenna @ \$260. SSR-1 with Gilfer GAR-7 d.o. @ \$225. Microlog/AVR-2 cw and RTTY converter @ \$225. Need to buy M-600 multi-mode converter. Rod Alexander, 1506 Pershing Blvd., Clinton, IA 52732 or call (319) 243-5792. No Collect Calls Please!

FOR SALE: Due to unemployment I am forced to sell DX-160 and DX-302. Both in good working condition. Will accept any reasonable offer. Gabriel Grijalva, 723 South First Avenue, Phoenix, AZ 85003. Phone (602) 253-7505.

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