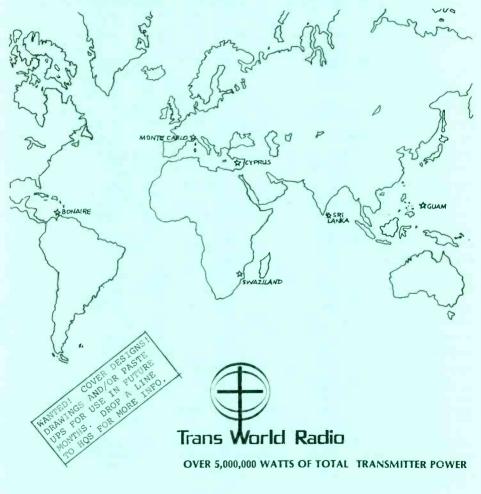


"THE DX RADIO MAGAZINE FOR ACTIVE SHORTWAVE LISTENERS"

## WORLD WIDE COVERAGE OF TRANS WORLD RADIO



MARCH 1975

Vol. IX No. III



## This month's quest editor: Don Johnson

## NEW FULL MEMBERS

CONGRATULATIONS to the following new FULL MEMBERS, who have shown their concern by actively supporting SPEEDX by contributing to the the bulletin on a regular basis. An attractive MEMBERHIPS CERIFICATE and a copy of the SPEEDX constitution will soon be received by each. Thanks to you all!

## WE WELCOME THE FOLLOWING NEW ASSOCIATE MEMBERS

MARK MESSER, Flushing, NY TOIA AMELIO, Milan, Italy CHARLES CLARK, Poulsbo, WA PHIL KURTS, Two Rivers, WI HARRY MILLER, Richmond, VA ROBERT OTTAWAY, Denver, CO JOHN SANDERSON, Tucson, AZ STEVE LEITE, Fall River, MA LANCE PIERCE, Frankfort, KY JAMES DREW, San Antonio, TX BILL JEANES, Earleville, MD EMILIO DOMINGUEZ, Tampa, FL DOUG WATSON, Scandinavia, WI MARJORIE WITTE, Torrance, CA YASUFUMI ARAKI, Kyoto, Japan ERNEST CATE, Canoga Park, CA YOSHIYUKI NOTO, Torrance, CA JOHN FALLOWS, Ottawa, Canada KLAUS URBANTKE, Inuvik, Canada

WILLIAM BEEMAN, Bellbrook, OH RICHARD MESTAS, Los Angeles, CA RICHARD GATES, Los Angeles, CA JAMES MORAN, Philadelphia, PA HERB SHATZ, Queens Village, NY BILL WILSON, Fairless Hills, PA NEIL SANDERSON, Hamilton, Canada ARVIN TUNICK, Thousand Oaks, CA GREGORY VISCUSI, Wallingford, CT WILLIAM CREIGHTON, Worcester, MA "Mc" McINTOSH, Grenada Hills, CA PATRICK BYRON, Silver Springs, MD VASANT SHRIDHARANI, Plainview, NY CHARLES ELDRED, Santa Barbara, CA MARSHALL McDANIEL, El Segundo, CA JOHN HUGHES JR, Balboa, Canal Zone ANTHONY HAINES, FPO New York, NY HENRY BIEDRZYCKI, Philadelphia, PA PATRICK VALENTINE, LOS Angeles, CA

We are glad you have chosen SPEEDX as a means to enhance your enjoyment of the radio listening hobby and look forward to your support. Feel free to ask questions of any of our staff. Be sure to send a Self-Addressed-Stamped-Envelope for a speedy reply.

#### CENTRAL DISTRIBUTION EDITOR

You may send material for the bulletin to each editor direct, to arrive in their hands by the 15th of each month. Or, all material may be sent to our CDE in one package to arrive by the 10th of each month. Robert Zilmer, P. O. Box 697, Milwaukee, WI 53201 is the Central Distributing Editor. Please cut all loggings into strips before mailing.

The use of the club's logging sheets is encouraged. These(SWBC/QSL/UTE)are available from HQS for 30¢ or 60¢ in cash or unused stamps. Be sure to indicate in what ratio you want then. i.e. all SWBC, 3:2:1, or ??

## 1979 ANARC CONVENTION

Don't forget to make your plans to attend the 1979 ANARC Convention in the city of Minneapolis on June 22-23-24. Having attended several ANARC meets, I can say it is well worth the trip! To obtain a flyer with all the info you need, write to:1979 ANARC Convention Committee, 3320 Grand Avenue, #305, Minneapolis, MN 55408. This is an all hobby event. BCB/SW/UTE/TV/LW/etc.

## 1980 ANARC CONVENTION

ANARC(557 North Madison Avenue, Pasadena, CA 91101) is now accepting bids on the 1980 Convention. If you are involved with a group that are interested in bidding on the next convention, drop Dave Browne of ANARC a line. Enclose a SASE and he will send you back the requirements and forms.

## SCADS (Southern California Area DXers)

Southern California hobbyists interested in discussing the posibility of hosting the 1980 ANARC Convention again(we hosted it in 1976)should try to attend the ASWLC General Meeting on March 31st. We will be talking about this topic. Address is:16182 Ballad Lane, Huntington Beach, CA 92649. If you need a map to the site, send a SASE to the above address.

## APRIL STATION SCHEDULES

While Orla Reese takes a month off, our 'fill-in' editor Jim Mayer will be taking over. This for April only. Be sure to send your skeds to Jim at: 1159 La Senda Drive, Fullerton, CA 92635. Orla will be back for May copy.

## NEW DX EDITOR FOR RADIO NEDERLAND

Frits Greveling has taken over the popular "DX JUKE BOX" program from Dick Speekman, who is soon to return to Australia. Dick sends his thanks for the fine support he has received from hobbyists since taking over this program from Harry Van Gelder in 1974. SPEEDX wishes to say "THANKS" to Dick for the excellent program he has presented. It is hoped that your support to Frits will remain avid, and the program will continue to be one of the best DX Programs on the air. Good luck Dick!

## SPEEDXTRAS

Don't forget, SPEEDXTRAS, the project division of SPEEDX, is well and active. The Projects Chairman, Mel Hickman(7409 S.E. 82nd, Portland, OR 97266)would like to hear from you if you have ideas on new projects or can help with present ones. A few areas where you might help are;typing if you are experienced and have access to a carbon ribbon machine....translations if you are well versed in a language other than EE/FF/SS for an expanded language guide he is working on...or? Drop Mel a line(please enclose a SASE for guicker reply)and let him know what you have in mind.

## LATE MARCH SPEEDX

Sound like a re-run of the January issue? It is! While HQS receives mail from all over the world in a very few days, it seems mail from Los Angeles to Lake Elsinore(a distance of 90 miles) has problems of late. KEYNOTES material from Ollie has not been received for the March issue so, after waiting an extra week, I am filling these pages at HQS. so we can go to press. Sorry about that gang.....ye publisher. March 5, 1979.....

#### GOOD GUYS MEET

There will be a DX meet in Portland on Sunday March 25th at the home of A/O editor Bob Bodel1(5230 S.E. 48th, Portland, OR 97206)from about noon. All hobbyists are welcome. Drop Bob a line for more information.

## DIRECTORY OF ANARC CLUB PUBLICATIONS AND SERVICES

Hot off the press from ANARC is a 12 page booklet of all ANARC clubs and what services they have available. Cost in North America is 50¢(Foreign \$1.00)from the ANARC publisher:Wayne Davis, 27 Cleveland Ave, Trenton, NJ 08609. A handy little booklet.

## SPEEDX CLUB SUPPLIES

On the following page is a current list of items available from SPEEDX. Be sure to order from the proper sourse and include the required fee.

## SUPPLIES AVAILABLE FROM SPEEDX

BASIC INFORMATION PAMPHLETS (BIPs) are written to aid the novice SWLer understand the 'basics' of the hobby and are available to all hobbyists for return postage. A SASE in the USA and 2 IRC's elsewhere. Order by no. BIP-1 "THE WHY & WHEREFORE OF VERIFICATION" by Cedric Marshall. BIP-2 "CALIBRATING RECEIVERS W/SLIDING DIALS" by Bill van Schlaft. BIP-3 "USING THE SINPO CODE" by Jack White. BIP-4 "BASIC SHORTWAVE ANTENNAS" by Don Johnson. BIP-5 "BASIC PROPAGATION" by Doug Snyder & Mark Lucas.

REFERENCE LEAFLETS are small pamphlets designed to provide the DXer with a ready reference to material not normally found in other sources. Cost is the same as the above BIPs.

RL-1"SINPO LANGUAGE AID" by Jack White.

RL-2"EMBASSIES LOCATED IN WASHINGTON DC" by Steve d'Adolf.

"SUNSET-SUNRISE BOOKLET" is a 16 page listing of sunset/sunrise times for over 250 sites around the world. Recently updated and <u>COMPUTERIZED</u> for accuracy! In easy to use chart form. Also contains the formula for finding the sunset/sunrise times for any site not listed. Cost is US\$1.00 (75¢ to SPEEDX FULL MEMBERS) or 6 IRC's.

"FOREIGN LANGUAGE REPORT GUIDE" edited by Gerry Wood is a very helpful guide to write reception reports in ENGLISH/FRENCH/SPANISH/PORTUCESE. 16 pages of phrase and vocabulary lists. AVAILABLE TO SPEEDX CLUB MEMBERS ONLY! Cost is 50¢ (or 3 IRC's)for associate members and 25¢ to FULL MEMBERS.

<u>SPEEDX RUBBER STAMP</u> is the official SPEEDX emblem ready to imprint your hobby mail. Cost is US\$5.00 in the USA/Canada. US\$5.50 elsewhere.

<u>LOGGING REPORT FORMS</u> are available to SPEEDXers only. These are handy to report your catches to the SPEEDX editors. SWBC, UTE and QSL forms may be obtained for 30c or 50c in cash or stamps. State in what proportion you want them such as: 3 SW to 2 QSL to 1 UTE, all SW, or whatever.

TRI LINGUAL RECEPTION REPORT FORMS (English/Spanish/French) are easy to use forms to send a report in "that other" language. Available to ACTIVE club members <u>only</u>! You may request up to three forms for each credit point earned in the current 3 month period. Up to 18 forms may be ordered at one time. A #10 SASE with first class postage for up to 6 forms. Add a first class postage stamp for each additional 6 forms. Be sure you have earned the needed credit points. NOTE: This item only should be ordered from the Membership Chairperson: Vera Crable, 5114 N 17th St., Coeur d'Alene, Idaho 83814. DO NOT ASK HQS FOR THESE FORMS.

SPEEDX-EDXC COUNTRY LIST & AWARDS PROGRAM is available to club members only. This is designed for those who QSL and those who don't, as we have award certificates in both areas. Over 20 different ones, so you will find something to interest you no matter what your interest. Cost is 50¢ for FULL MEMBERS and 75¢ for ASSOCIATE MEMBERS. Order this item from the Awards Chairperson: Jack Jones, 304 Robinhood Road, Jackson, MS 39206.

CLUB HEADQUARTERS

## AWARDS CHAIRPERSON

S P E E D X P. O. Box E Elsinore, CA 92330 JACK JONES 304 Robinhood Road Jackson, MS 39206 MEMBERSHIP CHAIRPERSON

VERA CRABLE 5114 North 17th Street Coeur d'Alene, ID 83814

# PROGRAM

MARCH 1979

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

# PANORAMA

## STATION OF THE MONTH



One of the most outstanding broadcasting organizations in international radio is the United Kingdom's BBC. The BBC operates a 24-hour-aday English language service, the

BBC World Service. The BBCWS is known for its impartial news programs, well-produced special broadcasts and a wide variety of entertainment programs. One of the best things about the BBCWS is that you can hear them at almost any time of the day or night and be treated to excellent programming. Here are some comments about BBC World Service:

(Diane Levesque, IL): "From its multudinous variety of programming, from their serious music programs to their news to their game shows, one main their serious music programs to their news to their game shows, one main thing speaks out most clearly: solid in-depth work. It is needless for me to repeat the praises that others have had for their top-notch news/ background releases, for they are without peer in that department--but their brilliance comes forth when it comes to any other type program, even the game show. As a rule, I dislike game shows, but I make an ex-ception of the BBC's variety because they are really a challenge even if one isn't a part of the official panel like the grame they were panel ception of the BBC's variety because they are really a challenge even if one isn't a part of the official panel, like the game that uses panels of employees from multinational corporations to challenge each other with questions about each others' and their own countries; and like "Just a Minute", some are just plain fun to listen to. I am not given to soap operas either, but the situations that come up in the BBC's theater pro-ductions are captivating. I could go on and on about the rest of the BBC's great programming, but I would end up writing something as thick as the Beeb's schedule/guide. The best I can do for this space is to cert that it all must have come from a lot of careful work with a touch of genius."

(<u>Clayton Stapleton</u>, TX):"What can I say about the BBC that hasn't been said. It is a favorite of mine. I really like their reports and the program <u>A Taste of Hunni</u>, <u>Irish Style</u>. I also enjoy their plays."

(James Olson, CA):"I enjoy listening to the <u>Top Twenty</u> program because I enjoy knowing what rock songs are popular in England. The ever-so-amusing <u>Letterbox</u> is also a favorite of mine."



The March 1979 issue of London Calling lists the following top feature programs for the month: <u>The Architect--Monster</u> or Hero? is the intriguing name of a program scheduled for the 26th at 1000 GMT, repeated @ 2130 the same day and the 29th at 1430...Eight talks on equality can be heard Monday at 0545 and 2515, Wednesday at 1015 and 1615...<u>A Visit To Oxford</u> can be heard on the 19th at 1000 and 2130, as well as on the 22nd at 1430 GMT... Balzac's <u>Cousin Bette</u> is a new classic serial which can be heard Saturday @ 0230, Monday @ 1130 and Thursday @ 1615...Shakespeare's <u>As You Like It</u> can be heard in two parts: 3rd, 10th @ 1830, repeated 4th, 11th @ 0030, 1130...<u>The Spinners</u> are one of Britain's most popular folk music enter-tainment groups. A new series of their music begins March 25th. Listen Sundays @ 1900, Mondays @ 0430, 0945 and Fridays @ 0100. (Direct)

London Calling can be obtained for \$10 US/year. However, for those who don't want to spend that amount of money for BBC program info, a quarterly chart of frequency and program information can be obtained from the Chief Engineer, External Broadcasting, BBC, Bush House, London WC2B 4PH.

Next month: Radio Nederland May's "Station of the Month" Radio Moscow

## PROGRAM PANORAMA, Page 2

March 1979

ALBANIA...While Radio Tirana cannot be considered the most popular international broadcaster around, there is another shortwave outlet in this country that is worthy of some listening time. Radio Gjirokaster broadcasts in Albanian, but they play some lively Albanian folk music. Also, at 0515 GMT, you can hear an exercise program in Albanian! Try 5057 kHz about 0500 for some unusual programming. The station has been reported earlier in the evening, as well. Log this one before summer & QRN arrives!



CANADA...The CBC Northern Service has a weekly treat on <u>Sunday Morning</u> each week. That's the name of the three hour magazine from CBC Radio, heard over the Northern Service from 1400-1700 GMT each Sunday. The first thirty minutes is usually devoted to an in-depth analysis of a major news story of the week. For example, on February 18, there was a report on the events during the past week in Iran. At 1430, The Nation(Canada) is featured(catch up on Canadian affairs). At 1500, a story with long range effects is presented(on 2/18, it concerned the world's oil supply). At 1600, The Arts are surveyed. The program concludes from 1630-1700 with International Wrap-Up. Tune in and discover what happened during "a week in the life of the world".....During the week, the Northern Service has a multilingual morning show(until 1400 GMT). The English segments are very interesting, so tune in to CBCNS!

FINLAND...Radio Finland recently changed its name to <u>Finnish International</u> <u>Radio</u>. FIR now mails a monthly schedule of program features to interested listeners on a regular basis. Write and ask to be put on the mailing list. FIR also has replaced QSL cards with "Audience Cards". A requirement is that you include program details. FIR is one of the leading stations in promoting listening for content. (direct)



GERMANY(FED. REP.)...(James Olson, CA): "Finally, Deutsche Welle has brought back a mailbag show to North America. Entitled North American Mailbox, the first show was aired February 11, and it will continue to be aired every two weeks if it gets support from listeners." James mentions that one

of the questions concerned the brevity of DW's English broadcasts. The standard reply of "size of North American media gives NA listeners other sources of information about Germany" was given, but he feels that if enough people write to DW, they can be persuaded to expand the English broadcast to North America from the present 20 minutes a night.

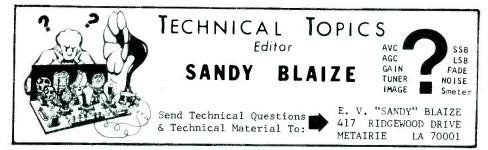
IRAN...NIRT is now known as the "Voice of the Revolution"...The International Service appears to be keeping the schedule before the revolution. The usual Interval Signal was heard on 9022 kHz at 2000 GMT during the week of February 12...The 15084 outlet, monitored on February 12, was featuring what can be called "majestic" instrumental music on that day following the fall of the prior government. Once again, shortwave radio gave listeners a special insight into a major event of the world. (Editor)



<u>PORTUGAL</u>...Radio Portugal features the following programs in English: MONDAY: <u>Tourism</u>; TUESDAY:

DAY: Tourism; FRIDAY: Listeners Mailbag and DX Program(alternates with Philately and History); SATURDAY: Fress Review; SUNDAY: Summary of Main Events of the Past Week. (Jack Lattemann, WA)

(Joe Tangredi, NV in Review of International Broadcasting #24): "Who says R. Fortugal doesn't have a good DX program? For that matter, how many people knew they had a DX program? They do, and it's a truly outstanding one, too. Heard on Saturdays GMT at about 0315 and 0515, fortnightly. The next one should be(March 3 & 17--changed by Editor WS). On the mid-January one, I heard an interesting station profile on the Tonga Broadcasting Commission......" See you next month! Wree 2/19/79



NEW PINASONICS: Recently announced have been the RF-2900 and RF-4900, which are "revised" versions of the RF-2800/RF-4800 respectfully. The biggest change in both sets appears to be the readout: changed from "LED" type to the green flourescent type you see in some of the Jap calculators. Selectivity said to be better in the RF-4900. Also both sets now have the digital display operative on ALL BANDS! (Why didn't they do that the first time?!?) Nore on 

<u>NEW "PCCKET" 2 BAND RADIO</u>: A late item by Radios International, P.C. Box 6053, Richardson, TX., 75080 is a very small "pocket" portable that has the BC band (AM) and one SW band. No details as of now, but look for some information on this in the rext issue. The manager, Moosa (a fellow SPEEDXer), is going to this the latest Braceshier shows latest WPTVH ato. Send him a S.A.S.F. handle the latest Panasonics above, latest WRTVH etc. Send him a S.A.S.E. for his latest catalog sheets being revised as this is being written. A reminder to all SPEEDXers not to forget HAP. Maybe you have and old set just sitting around the house. Perhaps it is either unused now or maybe it will cost more to fix than you think it's worth! This Editor will overhaul that old set you don't want and donate it to HAP. Write for more details. \*\*\*\*\*\* RADIC WEST, 3417 Purer Road, Escondido, CA., 92025 still offers: Calibrators, ligital readouts, BCB loop antennas, preselectors, receivers and custom modifications and repairs. Write to them for thier latest catalog sheets. SERVICE MANUALS and other data such as instruction booklets etc. for equipment made by SCNY and PANASCNIC may be obtained from the respective addresses below:

FANASCNIC, 2121 Yates Ave., City of Commerce, California,90040 SCNY, Technical Publications, 47-47 Van Dam St., Long Island City, NY, 11101

Prices for each service booklet is \$2.00.

RADIO SHACK service information on such sets as the DX-150/160, DX-40 and DX-300 can be obtained from:

Radio Shack, Customer Service, 1801 S. Beach St., Ft. Worth, TX, 76105.

 $\frac{\text{SURPLUS RECEIVER}}{\text{to know what the /URR meant behind numbers like: R-388 and R-390 etc. This}$ is part of what is known as the Joint Army-Navy Nomenclature System. (JAN or plain AN system for short) Well it literally means. "Utility-Radio-Receiver"!! Other commonly run into suffixes are: "TRC" meaning "Transport-able-Radio-Communications" and "PRC" = "Portable-Radio-Communications" etc. Receivers usually have an "R" prefix, transmitters a "T" prefix and Combina-tion Transmitter-receivers or transceivers carry an "RT" prefix. If there is enough interest, maybe I can hunt up the old list and make a column out of 

In ending this month, I would like to thank you who wrote this past month. The "feedback" is helpful and very welcome here. For those of you who didn't write but intended to, let's hear from you!! I will write more than one page if you give me the support and questions to do so. Managing Editor sez I can have a "two pager" every now and then. Long articles to Art Getzel.

7

# SWBC DX - Western Hemisphere



2825 Webb Ave, Apt 5-F Bronx NY 10468



MARCH, 1979 -- LAS NOTICIAS

#### HOW THE LATINS TELL TIME

(This article has been revised and expanded after an article by Jim Whitehead in the September, 1974 Western Hemisphere column. cpjh)

The frequent time announcements of many Latin American broadcasters are extremely useful aids for the knowledgeable DXer. Often they provide a clue to identifying a station while, at the same time, providing an easily recognized and often distinctive program detail for your reception report. To get the most from this DXing tool, however, it is necessary to know a few of the basic principles of the way a Spanish-speaking person tells time. There are many similarities, as you will see, but there are differences as well. In addition, you will need a little vocabulary, but many words are similar to their English language counterparts. It takes some getting used to but, with practice, you will soon be making full use of this invaluable Latin American DX aid.

<u>VOCABULARY</u> -- As always, when discussing a subject involving another language, it is necessary to introduce a few new words. In this case, the list is not very long. To get a feel for these new words and, of course, numbers, read them aloud two or three times and do the same with the examples in the text. The shortness of the time it takes to familiarize yourself with these new words will surprise you.

uno (00-noli)-one	nueve (NWAY-vay)-ning	diecislete, diez y siete (dyays ee SCEYAY-tay)-17
dos (dohs)-two	dlez (dyavs)-ten	diectuche, diez y ocho (dyays ce OB-cho)-IR
tres (trays)-three	once (ORN-say)-eleven	discinceve, disz y nueve (dvays ce NWAY-vay)-19
cuatro (KWAH-troh)-4	doce (DOH-say)-twelve	veinte (VAYFFN-tay)-twenty
cinco (SEEN-koh)-five	trees (TRAY-say)-thirteen	vefutions, veinte v nuo (VAYEEN-tay ee CO-nob)-21
seis (sayees)-six	catorce (kah-TOR-say)-fourteen	treinta (TRAYFEN-Lob)-thirty
sigte (SEEAY-tay)-7	quince (KEEB-say)-fifteen	custonia (kwsr-FUN-tah)-forty
ocho (OH-choh)-eight	dieciseis, diez v seis (dyays ee SAYEES)-16	cinquenta (seen-KWEN tah)-fifty

la hora (lah OH-rah)-hour	media (MAY-dvah)-half	tanle	(TAHR-day)-afternoon
es (avs)-he she it is	cuarto (KWAR-tob)-quarter	noche	(NOH-chay)-alght
son (sobn)-they are	en punto (chn POON-toh)-exectiv	menus	(MAY-nohs)-1-ss
para (PAH-rah)-toward	de (day) for, of	hasta	(AHS-tab)-untfl, before
minutos (mih-NOO-tohs)-minuter	mañana (male-NYAll-nah)-morning	desde	(DAYS-day)-from since

THE MODERN APPROACH - Most of the stations that DXers will be cutting their LAm DX-teeth on announce the time in the modern method - what we would call the "digital-clock" method: e.g., "Three forty-six." "Tres cuarenta y seis minutos." With the advent of digital clocks with their numerical readouts, it is almost inevitable that this method will supplant the traditional method, even as "Three forty-six" has supplanted "Fourteen minutes to 4" in English speaking countries. This is much more evident now in 1979 than it was in 1974. So, be on the lookout for this method.

THE CLASSICAL APPROACH - The classical approach is used by smaller stations or stations in small towns or conservative countries. The classical approach, like the old English approach, requires us to envision an hour divided into two thirty-minute halves (See figure 1 on next page) These may be considered the "plus half," the first 30 minutes, and the "minus half," the second thirty minutes. Now, with this picture in mind, let's consider two rules. FIRST, TO GIVE THE TIME IN THE PLUS HALF ONE SIMPLY GIVES THE HOUR PLUS THE MINUTES. SECOND, TO GIVE THE TIME IN THE MINUS HALF, ONE STATES THE NUMBER OF THE AP-

Es la una y dos minutos (ays lah 00-nah ee dohs mih-NOO-tohs)

Those who know Spanish or other Romance languages will remember that adjectives must agree in gender with their nouns -- therefore, "uno" must change to "una" before "hora" [understood]. "Uno" is the only number that changes to agree with a noun. However, if it is 12:58, one says:

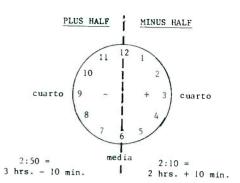
Es la una menos dos minutos

If it is 2:58, one says:

Son las tres menos dos minutos

You will note that only the first half hour uses the singular "it is," or ES. All the other hours are plural, two hours, three hours, etc., and require the plural SON, translated, in this case, into English as "It is," rather than "They are."

In English the expressions "It's half past," or "It's quarter-past," are commonplace and these phrases have their equivalents in Spanish. One says, for example, at 2:15 that "It's two hours and a quarter," which is translated thusly:



#### Son las dos y cuarto

or "It's half past two," translated:

## Son las dos y media

In practice this textbook approach has some variations. It is cumbersone to subtract from the upcoming hour, particularly for the many uneducated persons who speak Spanish, and so a variation that avoids this has come into common usage. In English we often say, "It's ten to," or something similar, and so it is in Spanish. Here one says:

Son las veinte minutos para las dos

for "It's twenty minutes before two."

TIME OF DAY-Most countries in Latin America, with the exception of Argentina and Chile, use the 12-hour system with which we are all familiar. As a result, it is necessary to identify just which part of the day one is talking about. The Spanish-speaking person accomplishes this by tacking "de la mañana" (in the morning), "de la tarde" (in the afternoon) or, "de la noche" (at night) onto the time phrase. This is usually done at the end of the phrase, but may also come after the hour: "Son las dos de la noche con veinte y cinco minutos," OR "Son las dos y veinticinco minutos de la noche."

THE 24-HOUR SYSTEM-If you listen to the VOA Spanish or BBC Spanish, for example, you will hear 24-hour TC's. These are the same, basically, as the modern TC's, except that no time of day need be added. For example, when it is 2325 GMT, we say, "Son las veintitres veinticinco." We need to add one vord of vocabulary: "cero (SEH-roh)-zero," as in "Cero y veintidos, GMT" (GMT=Jay Em Tay).

<u>PRACTICE MAKES PERFECT</u>-Pick a good clear station some night and listen for the time checks. A good station to pick these days is R. Super de Medellin, 4875, in Colombia. This station announces times in the modern system after every musical selection. R. Quito, 4920, also has regular time checks at the quarter and half hours. It gives the modern and classic versions of TC. To get to know numbers automatically, try listening to our SS number station some evening and see how many numbers you can write down as the YL speaks them. Soon it should become automatic and you will be able to easily recognize numbers in Spanish.

NEXT MONTH-With a bit more vocabulary, you can also recognize frequencies and powers as announced over the airwaves. Also, more classic SPEEDX W/H tips to come.

## SOUTH AMERICA

#### ARGENTINA

THE DOLLAR		
5882	0043	R. Rividavia, SS, OM ID, ads, sx bc; (1/18, Moore, PA)
6060	0915	R. Nacional, SS, mx, tlk between OMM, ID (323; 1/8. Tannenwald, NY) berg, CA)
6090	0010	R. Belgrano, SS, xmission from Cosquin, folk music festival (242:1/28. Aisem-
9690	0325	RAE, EE, Argentine vocals (333; 1/13. Yajko, PA) +4
9705	0526	R. El Mundo, México 0515* uncovers LRX2, SS w/ U.S. discs and local ads;
		//6120, slop from VOA, (222; 1/15. Brookwell, CA)
9740	2300	R. Splendid, SS, nx, ID, mx; (222; 1/21. Aisemberg, CA)
11710	2343	RAE, EE, ID, mx; (343; 1/17. Snyder, NY) (422; 1/26. Dilk, NY)
11755	0628	R. El Mundo, SS, folk mx, ID, waltz mx @0633 (533; 1/21. Thompson, CA)

THERE ARE OFTEN PROBLEMS WITH THE MAG CARD MACHINE. WHEN YOU LOSE SOMETHING OUT OF THE MEMORY, THERE IS MUCH GNASHING OF TEETH DURING THE RETYPING, AS ABOVE, HI!

BOLIVIA 4740 0229 R. Mamore, SS, Bolivian mx, drums, some singing, ID @0233, f/o by 0236 (242; 1/18. Howell, CA) 1000 4755 R. Em. Bolivia, SS/Quechua, native mx, frequent ID, cmt in Quechua, nx (poor/ fair; 1/15. Tapia, IL) 4854 0152 R. Centenario, SS, Bolivian mx, SS anmts, ID, ballad mx, ID, lite mx (333; 1/25. Young, CA) Jones, MS) R. Panamericana, SS, "Buenos Dias Bolivia," mx, ID, het w/ USSR (423; 1/15. 6035 1035 BRAZIL 4915 0835 R. Dif. Macapá, PP, Bras. mx, Bossa nova; ID; (333; 1/28. Blaize, LA)(323; 1/26. Tannenwald, NY) TX) R. Brasil Central, PP, ID @0244; OM ancr, slow dinner mx; (222; 1/16. Hensley, 4985 0244 5025 0346 R. Borborema, PP, ID by OM, YL, lte pop mx, good lately (34311/25.Lobdell, MA) (323; 1/11. Blaize, LA)(333; 1/25. Cucura, PA) 6000 0856 R. Inconfidência, PP, ID, fqys, ads, mx; I243; 1/29. Jones, MS) R. Nacional de Brasilia, PP, ID, tlk, mx; (433; 1/8. Skora, ON) +5 R. Globo, PP, ID's, sx talk; (333; 1/13. Yajko, PA) 11780 0056 11805 0025 0030 R. Gaucha, PP, rapid fire sx cmt, HCJB s/on wiped it out (312; 1/25. Yajko, PA) 11915 R. Bandeirantes, PP, ads, ID (343; 1/19. Yajko, PA) 11925 0006 15145 2050 R. Jornal de Comercio, PP, soccer cmt - match between Czechoslovakia & Brasil (344; 2/4. Yajko, PA) 0330 R. Cultura; PP, easy listening mx, Lou Rawls (343; 1/19. Mellinger, NJ)(222; 1781.5 1/27. Zavatsky, CT) CHILE berg,CA) 6150 0015 R. Cooperativa Vitalicia, SS, basketball from Punta Arenas; (545;1/28.Aisem-9750 0140 R. Minería, SS, YL, mx, OM singing in FF, ID @0200 (444; 1/8. Oakley, CA) 11765 0245 LVCH, EE, tlk about Chile's involvement in SAm's industry(333;2/4.Curtis,TN) 11890 0405 LVCH, EE, YL w/ mx, newsy comments on the inflationary problems of the old Marxist regime (353; 1/26. Hook, FL) +6 LVCH, EE, many ID's, addresses of station, orch. mx, vocals, cmt, 0300\* (454; 17800 0230 1/27. Thompson, NM) (344; 1/13. Yajko, PA) COLOMBIA 4755 1045 Em. Nuevo Mundo, SS, "CARACOL en la tierra," (px. of mx, news, interviews) @ 1055; ID; news program begins with newsboy shouting (with echo effect): "Extra desde CARACOL." News was dateline type. [Yes, sir, el caracol in SS. does mean "snail," but you won't find this fast network punning on the name, hi! cpjh](423; 2/6. Brown, IL)(433; 1/17. Blaize, LA) R. Super, SS, OM, many R. Super ID's, ads, folk mx, (suggest that you got Ecos del Combeima but misread the fq?? I couldn't imagine what else it could be 4790? 0655 and EdelC. is on fq., as far as I know. cpjh)(333; 1/29. Thompson, CA) R. Guatapuri, SS, sx event, fast talking ancr; (322; 2/8. Zink, CA) 4815 0330 4865 0914 LV del Cinaruco, SS, ID: "Radiodiffusion de Prestigio, CARACOL, LV del Cinaruco," tlk, campesino mx; (343; 2/8. Jones, MS)(333;1/24.Cucura, PA) R. Super de Medellin, SS, ID in SS, unusual pop LAm mx, sounded like a mixture 4875 0443 of ballads and C&W mx; (433; 1/14. Peck, NY) (544;1/29. Thompson, CA) 4885 1049 Ondas del Meta, SS, ID, TC, campesino px; (3421 2/1. Jones, MS) 4925 Emis. Meridiano 70; SS, ID, TC, greetings to listeners, ID: "Meridiano Setenta" 1035 (343; 1/19. Jones, MS) R. Colosal, SS, mx, male w/ ID @0308, no ad before mx; (444; 1/21. Pyne,MD)+5 4945 0305 4965 R. Santa Fe, SS, OM ancr, LAm OM vocal mx; ID; (433; 2/5. Lattemann, WA)+1 0630 Ecos del Atrato, SS, ID, TC, Buenos Dias, thanks for tuning in, mx; (343;1/23. 5020 1036 Jones, MS) (333; 1/19. Famularo, NJ)+2 MS)+1 R. Cinco, SS, ID: "Emisora CARACOL, R. Cinco," odds & ends mx; (352;2/8, Jones, 5040 0857 5955 \*0946 LV de los Centauros, SS, ID, call, fqys, NA, mx; (444; 2/6. Jones, MS) R. Super, SS, romantic mx, anmts, ID; (232; 1/28. Moore, PA) 6065 2315 Ondas del Darién, SS, Tangos, canned ID @2333, QRM de Brasilian(333;1/28.Moore 6085 2325 PA)([\*0850]; 444; 1/17. Jones, MS)(333; 1/28. Donly, SC) LV del LLano, SS, Ads, ID, TC; (433; 1/22. Yajko, PA)(444;1/27.Howel1,CA) 1130 6115 LV del Huila, SS, mx, anmts, ID; (333; 1/28. Tannenwald, NY) 6150 1050 6160 0740 Emis. Nueva Granada; SS, OM, anmts, LAm mx; (232; 2/10. Smith, CA) 0458\* R. Nacional, SS, pxx for next day, s/off w/ NA; (222; 1/17. Brookwell, CA)+2 9655 R. Nacional, SS, ID, tlk, mx, //9655 [443], play a lot of classical and march 11792 \*1200 mx, (433; 1/19. Zilmer, WI)(353; 1/26. Earhart, PA) R. Nacional, SS, pop mx, some EE records, tlk (343; 1/23. Zilmer, WI)(443; 13848 0040 12/21. Rosewarne, CA) ECUADOR-HCJB EE, DXpx w/ Clayton Howard, now hrd also on Tu. and Thu. (during JJ px;)(443; 6075 1140 1/23. Zilmer, WI) 11915 0230 EE, letters being answered on DXPL, one about HCJB's "Hawaiian outlet." (Sorry, no such station!)(444; 2/1. Curtis, TN)

ECUADOR-continued There were 28 other reports of various HCJB frequencies.

There	were 2	other reports of various HCJB frequencies.	
3260	1057	.V del Rio Carrizal, SS, ads, mx, several ID's (333;1/4.Cucura, PA)	
3262	*1058	R. Triunfo, SS, signed on in mid-song, ID, "R. Triunfo RCA," ad for a	local
		almacen, fades by 1130; (322; 1/30. Lobdell, MA)	
3985	*1010	Escuelas Radiofónicas Populares, SS, ID, readings on the value of hard	
3380	1110	taped px from R. Nederland on farming in Kenya @1108(434;1/23.Lobde L. Iris, SS, mx, anmts, ID; (222; 1/27. Tannenwald, NY)(tent, but hear	
5566		ann. "en todos Ecuador"; 322; 1/14. Getzel, NY)(343;1/14. Peck, NY)	u on
3390	1035	. Zaracay, SS, Ecuadorian mx, anmts, TC, ID; (333; 1/28. Tannenwald,	NY)
4680	0530	R. Nacional Espejo, SS, LAm mx, ID's, overmodulated (333; 1/27. Zavats	ky, CT)
		(433; 2/2. Hrivnak, IL)(444; 1/30. Pettit, IA)	
4795	0438	W de las Caras, SS, UTE QRM, non-stop instrumental mx, ancr @0450 and	0510,
4900	0450	ID @0520, then abrupt s/off (222; $1/21$ . Moore, PA)	
4800 4851a	0450	t. Popular Independiente; SS, Andean mx, (252; 1/29. Moore, PA) t. Luz y Vida, SS, ads, ID, "Música Ecuadoriana," band mx, nx, "nacion	al i.a.
40514	1155	ternacional" (443; 1/18. Jones, MS)	ar y m-
4890	0432	Centinela Del Sur, SS, pops, cuts from SS comedy album, full ID, 05	00* w/
		NA; (333; 2/5. Lobdell, MA)	
4910	0430	mis. Gran Colombia, SS, QRM battle between Ecuador & Zambia for this	fq;
(020	0500	Andean & LAm mx; (312; 1/11. Blaize, LA)(252; 1/29. Moore, PA)	
4920 4930	0500 0431	L. Quito, SS, 0500*, fq., ID, etc., "Muy Buenas Noches,"(412; 1/20.Bla	
4980	1115	t. Casa de la Cultura, SS, Piano mx, long OM tlk, ID @0445 (252;1/29.M Indas Azuayas, SS, mixture of SS ballads and Andean mx, many ads, ID's	
.,		2/11. Hoffman, PA)	(435,
5060	1139	Progreso, SS, ID, typical Ecuadorian mx, some annoyance from TIFC on	n 5055
		232; 1/23. Jones, MS)(253; 1/29. Moore, PA)	
FRENCH	GUYAN	FR 3	
		F, s/on, NA, into pop mx; (232; 1/15. Kegel, MD)	
		IC OF)-GBS	
		E, tlk on economy, nx of station contest, ID @2212 by OM (242; 1/2. Do	nly SC)
PERU			,00)
4763t	0240	. Inca, SS, tlk by OM, very weak (142; 1/21. Howell, CA)	
4790	0458	. Atlantida, SS, "Sing Along" mx, Peruvian style, ID "Atlantida" shou	red
		over mx frequently (322; 1/11. Blaize, LA)	
4935	1104	over mx frequently (322; 1/11. Blaize, LA) . Tropical, SS, Disco & U.S. pop mx, ID as "R. Tropical," and "Tropical	al, Tro-
4935	1104	over mx frequently (322; 1/11. Blaize, LA) . Tropical, SS, Disco & U.S. pop mx, ID as "R. Tropical," and "Tropical pical, <u>Tropilisimo</u> ," (tropicalisimo?? cpjh) Hrd @1040 w/ typical Per	ruvian
4935	1104	over mx frequently (322; 1/11. Blaize, LA) . Tropical, SS, Disco & U.S. pop mx, ID as "R. Tropical," and "Tropical pical, <u>Tropilisimo</u> ," (tropicalisimo?? cpjh) Hrd @1040 w/ typical Per mx, very weak, much better at 1104 and able to ID. Tropical pronoun	ruvian
		over mx frequently (322; 1/11. Blaize, LA) . Tropfcal, SS, Disco & U.S. pop mx, ID as "R. Tropfcal," and "Tropfcal pfcal, <u>Tropilfsimo</u> ," (tropicalisimo?? cpjh) Hrd @1040 w/ typical Per mx, very weak, much better at 1104 and able to ID. Tropfcal pronoun "Tro-PEE-cal." (342; 1/19. Jones, MS)	ruvian nced as
4935 4955	1104 1101	over mx frequently (322; 1/11. Blaize, LA) . Tropical, SS, Disco & U.S. pop mx, ID as "R. Tropical," and "Tropical pical, <u>Tropilisimo</u> ," (tropicalisimo?? cpjh) Hrd @1040 w/ typical Per mx, very weak, much better at 1104 and able to ID. Tropical pronoun	ruvian nced as
		over mx frequently (322; 1/11. Blaize, LA) . Tropfcal, SS, Disco & U.S. pop mx, ID as "R. Tropfcal," and "Tropfcal pfcal, <u>Tropifsimo</u> ," (tropicalisimo?? cpjh) Hrd @1040 w/ typical Per mx, very weak, much better at 1104 and able to ID. Tropfcal pronoun "Tro-PEE-cal." (342; 1/19. Jones, MS) . Cultural Amauta, SS, s/on w/ NA, full clear ID, nx, LAm singing, and	ruvian nced as nts;
4955 4995	1101 1042	over mx frequently (322; 1/11. Blaize, LA) . Tropfcal, SS, Disco & U.S. pop mx, ID as "R. Tropfcal," and "Tropfcal pfcal, <u>Tropilfsimo</u> ," (tropicalisimo?? cpjh) Hrd @1040 w/ typical Per mx, very weak, much better at 1104 and able to ID. Tropfcal pronoun "Tro-PEE-cal." (342; 1/19. Jones, MS) . Cultural Amauta, SS, s/on w/ NA, full clear ID, nx, LAm singing, ann 343; 1/20. Young, CA) . Andina, SS, ID, tlk w/ Peruvian mx backup (353; 2/1. Jones, MS)([gu: native flute vocals] 322; 1/21. Lobdell, MA)	ruvian nced as nts; ltar/
4955 4995 5010	1101 1042 1057	over mx frequently (322; 1/11. Blaize, LA) . Tropfcal, SS, Disco & U.S. pop mx, ID as "R. Tropfcal," and "Tropfcal pfcal, <u>Tropilfsimo</u> ," (tropicalisimo?? cpjh) Hrd @1040 w/ typical Per mx, very weak, much better at 1104 and able to ID. Tropfcal pronoun "Tro-PEE-cal." (342; 1/19. Jones, MS) . Cultural Amauta, SS, s/on w/ NA, full clear ID, nx, LAm singing, ann 343; 1/20. Young, CA) . Andina, SS, ID, tlk w/ Peruvian mx backup (353; 2/1. Jones, MS)([gui native flute vocals] 322; 1/21. Lobdell, MA) . Eco, SS, Peruvian flute mx, ID under Surcolombiana (412; 1/12. Blaiz	ruvian nced as nts; ltar/ ze,LA)
4955 4995 5010 5980	1101 1042 1057 0935	<ul> <li>over mx frequently (322; 1/11. Blaize, LA)</li> <li>Tropfcal, SS, Disco &amp; U.S. pop mx, ID as "R. Tropfcal," and "Tropfcal pfcal, <u>Tropifsimo</u>," (tropicalisimo?? cpjh) Hrd @1040 w/ typical Permx, very weak, much better at 1104 and able to ID. Tropfcal pronous "Tro-PEE-cal." (342; 1/19. Jones, MS)</li> <li>Cultural Amauta, SS, s/on w/ NA, full clear ID, nx, LAm singing, ann 343; 1/20. Young, CA)</li> <li>Andina, SS, ID, tlk w/ Peruvian mx backup (353; 2/1. Jones, MS)([gui native flute vocals] 322; 1/21. Lobdell, MA)</li> <li>Eco, SS, Peruvian flute mx, ID under Surcolombiana (412; 1/12. Blaiz: Panamericana, SS, continuous SS/EE rock mx; 1000* (343; 1/21. Thomps</li> </ul>	ruvian nced as nts; ltar/ ze,LA) son,CA)
4955 4995 5010	1101 1042 1057	<ul> <li>over mx frequently (322; 1/11. Blaize, LA)</li> <li>Tropfcal, SS, Disco &amp; U.S. pop mx, ID as "R. Tropfcal," and "Tropfcal pfcal, <u>Tropitisimo</u>," (tropicalisimo?? cpjh) Hrd @1040 w/ typical Permx, very weak, much better at 1104 and able to ID. Tropfcal pronout "Tro-PEE-cal." (342; 1/19. Jones, MS)</li> <li>Cultural Amauta, SS, s/on w/ NA, full clear ID, nx, LAm singing, and 343; 1/20. Young, CA)</li> <li>Andina, SS, ID, tlk w/ Peruvian mx backup (353; 2/1. Jones, MS)([gui native flute vocals] 322; 1/21. Lobdel1, MA)</li> <li>Eco, SS, Peruvian flute mx, ID under Surcolombiana (412; 1/12. Blaiz Panamericana, SS, End of devotional, foll. by catchy song "Viva Perú," D</li> </ul>	ruvian nced as nts; ltar/ ze,LA) son,CA)
4955 4995 5010 5980 6020	1101 1042 1057 0935 1058	<ul> <li>over mx frequently (322; 1/11. Blaize, LA)</li> <li>Tropfcal, SS, Disco &amp; U.S. pop mx, ID as "R. Tropfcal," and "Tropfcal pfcal, <u>Tropifsimo</u>," (tropicalisimo?? cpjh) Hrd @1040 w/ typical Permx, very weak, much better at 1104 and able to ID. Tropfcal pronous "Tro-PEE-cal." (342; 1/19. Jones, MS)</li> <li>Cultural Amauta, SS, s/on w/ NA, full clear ID, nx, LAm singing, ann 343; 1/20. Young, CA)</li> <li>Andina, SS, ID, tlk w/ Peruvian mx backup (353; 2/1. Jones, MS)([gui native flute vocals] 322; 1/21. Lobdell, MA)</li> <li>Eco, SS, Peruvian flute mx, ID under Surcolombiana (412; 1/12. Blaiz: Panamericana, SS, continuous SS/EE rock mx; 1000* (343; 1/21. Thomps</li> </ul>	ruvian nced as nts; ltar/ ze,LA) son,CA)
4955 4995 5010 5980 6020 SURINAN	1101 1042 1057 0935 1058 M-SRS	<ul> <li>over mx frequently (322; 1/11. Blaize, LA)</li> <li>Tropfcal, SS, Disco &amp; U.S. pop mx, ID as "R. Tropfcal," and "Tropfcal pfcal, <u>Troplifsimo</u>," (tropicalisimo?? cpjh) Hrd @1040 w/ typical Permx, very weak, much better at 1104 and able to ID. Tropfcal pronout "Tro-PEE-cal." (342; 1/19. Jones, MS)</li> <li>Cultural Amauta, SS, s/on w/ NA, full clear ID, nx, LAm singing, and 343; 1/20. Young, CA)</li> <li>Andina, SS, ID, tlk w/ Peruvian mx backup (353; 2/1. Jones, MS)([guinative flute vocals] 322; 1/21. Lobdel1, MA)</li> <li>Eco, SS, Peruvian flute mx, ID under Surcolombiana (412; 1/12. Blaiz: Panamericana, SS, continuous SS/EE rock mx; 1000* (343; 1/21. Thompset, Victoria, SS, End of devotional, foll. by catchy song "Viva Perd," Dusual het (343; 2/1. Jones, MS)(253; 2/8. Moore, PA)</li> </ul>	ruvian nced as nts; Ltar/ ze,LA) son,CA) (D,
4955 4995 5010 5980 6020	1101 1042 1057 0935 1058 M-SRS	<ul> <li>over mx frequently (322; 1/11. Blaize, LA)</li> <li>Tropfcal, SS, Disco &amp; U.S. pop mx, ID as "R. Tropfcal," and "Tropfcal pfcal, <u>Troplifsimo</u>," (tropicalisimo?? cpjh) Hrd @1040 w/ typical Permx, very weak, much better at 1104 and able to ID. Tropfcal pronout "Tro-PEE-cal." (342; 1/19. Jones, MS)</li> <li>Cultural Amauta, SS, s/on w/ NA, full clear ID, nx, LAm singing, and 343; 1/20. Young, CA)</li> <li>Andina, SS, ID, tlk w/ Peruvian mx backup (353; 2/1. Jones, MS)([gui native flute vocals] 322; 1/21. Lobdel1, MA)</li> <li>Eco, SS, Peruvian flute mx, ID under Surcolombiana (412; 1/12. Blaiz: Panamericana, SS, continuous SS/EE rock mx; 1000* (343; 1/21. Thomps: Victoria, SS, End of devotional, foll. by catchy song "Viva Perú," I usual het (343; 2/1. Jones, MS)(253; 2/8. Moore, PA)</li> <li>D/EE, OM ancr, giving intros to mx selections in EE/DD, generally rock</li> </ul>	ruvian need as nts; Ltar/ ze,LA) gon,CA) [D, c and
4955 4995 5010 5980 6020 SURINAN	1101 1042 1057 0935 1058 M-SRS	<ul> <li>over mx frequently (322; 1/11. Blaize, LA)</li> <li>Tropfcal, SS, Disco &amp; U.S. pop mx, ID as "R. Tropfcal," and "Tropfcal pfcal, <u>Troplifsimo</u>," (tropicalisimo?? cpjh) Hrd @1040 w/ typical Permx, very weak, much better at 1104 and able to ID. Tropfcal pronout "Tro-PEE-cal." (342; 1/19. Jones, MS)</li> <li>Cultural Amauta, SS, s/on w/ NA, full clear ID, nx, LAm singing, and 343; 1/20. Young, CA)</li> <li>Andina, SS, ID, tlk w/ Peruvian mx backup (353; 2/1. Jones, MS)([guinative flute vocals] 322; 1/21. Lobdel1, MA)</li> <li>Eco, SS, Peruvian flute mx, ID under Surcolombiana (412; 1/12. Blaiz: Panamericana, SS, continuous SS/EE rock mx; 1000* (343; 1/21. Thompset, Victoria, SS, End of devotional, foll. by catchy song "Viva Perd," Dusual het (343; 2/1. Jones, MS)(253; 2/8. Moore, PA)</li> </ul>	ruvian need as nts; Ltar/ ze,LA) son,CA) [D, c and nl Elec-
4955 4995 5010 5980 6020 SURINAN	1101 1042 1057 0935 1058 M-SRS	<ul> <li>over mx frequently (322; 1/11. Blaize, LA)</li> <li>Tropfcal, SS, Disco &amp; U.S. pop mx, ID as "R. Tropfcal," and "Tropfcal pfcal, <u>Troplifsimo</u>," (tropicalisimo?? cpjh) Hrd @1040 w/ typical Permx, very weak, much better at 1104 and able to ID. Tropfcal pronout "Tro-PEE-cal." (342; 1/19. Jones, MS)</li> <li>Cultural Amauta, SS, s/on w/ NA, full clear ID, nx, LAm singing, and 343; 1/20. Young, CA)</li> <li>Andina, SS, ID, tlk w/ Peruvian mx backup (353; 2/1. Jones, MS)([gui native flute vocals] 322; 1/21. Lobdell, MA)</li> <li>Eco, SS, Peruvian flute mx, ID under Surcolombiana (412; 1/12. Blaiz: Panamericana, SS, continuous SS/EE rock mx; 1000* (343; 1/21. Thomps. Victoria, SS, End of devotional, foll. by catchy song "Viva Perú," I usual het (343; 2/1. Jones, MS)(253; 2/8. Moore, PA)</li> <li>D/EE, OM ancr, giving intros to mx selections in EE/DD, generally roch roll and R&amp;B mx, ID @0930, references to Super Radio, ads for General</li> </ul>	ruvian nced as nts; (tar/ ze,LA) son,CA) (D, (D, (and al Elec- ; 1/29;
4955 4995 5010 5980 6020 <u>SURINAN</u> 4850	1101 1042 1057 0935 1058 M-SRS 0910	<ul> <li>over mx frequently (322; 1/11. Blaize, LA)</li> <li>Tropfcal, SS, Disco &amp; U.S. pop mx, ID as "R. Tropfcal," and "Tropfcal pical, <u>TropiliSimo</u>," (tropicalisimo?? cpjh) Hrd @1040 w/ typical Permx, very weak, much better at 1104 and able to ID. Tropfcal pronout "Tro-PEE-cal." (342; 1/19. Jones, MS)</li> <li>Cultural Amauta, SS, s/on w/ NA, full clear ID, nx, LAm singing, and 343; 1/20. Young, CA)</li> <li>Andina, SS, ID, tlk w/ Peruvian mx backup (353; 2/1. Jones, MS)([gui native flute vocals] 322; 1/21. Lobdel1, MA)</li> <li>Eco, SS, Peruvian flute mx, ID under Surcolombiana (412; 1/12. Blaiz: Panametcana, SS, continuous SS/EE rock mx; 1000* (343; 1/21. Thomps. Victoria, SS, End of devotional, foll. by catchy song "Viva Peru", "Dusual het (343; 2/1. Jones, MS)(253; 2/8. Moore, PA)</li> <li>D/EE, OM ancr, giving intros to mx selections in EE/DD, generally rock roll and R&amp;B mx, ID @0930, references to Super Radio, ads for Generatiric hrd. approximately 0945 and 0950 (443; 2/6. Lattemann, WA)(454; Donly, SC)(454; 2/6. Jones, MS)(433;1/31.Famularo,NJ)(343;1/17.Peck, 1000)</li> </ul>	ruvian nced as nts; (tar/ ze,LA) son,CA) (D, (D, (and al Elec- ; 1/29;
4955 4995 5010 5980 6020 <u>SUR INAN</u> 4850 <u>URUGUA</u>	1101 1042 1057 0935 1058 <u>M</u> -SRS 0910 <u>Y</u> -SODR	<ul> <li>over mx frequently (322; 1/11. Blaize, LA)</li> <li>Tropfcal, SS, Disco &amp; U.S. pop mx, ID as "R. Tropfcal," and "Tropfcal pfcal, <u>Tropitfsimo</u>," (tropicalisimo?? cpjh) Hrd @1040 w/ typical Permx, very weak, much better at 1104 and able to ID. Tropfcal pronout "Tro-PEE-cal." (342; 1/19. Jones, MS)</li> <li>Cultural Amauta, SS, s/on w/ NA, full clear ID, nx, LAm singing, and 343; 1/20. Young, CA)</li> <li>Andina, SS, ID, tlk w/ Peruvian mx backup (353; 2/1. Jones, MS)([gui native flute vocals] 322; 1/21. Lobdel1, MA)</li> <li>Eco, SS, Peruvian flute mx, ID under Surcolombiana (412; 1/12. Blaiz: Panameticana, SS, continuous SS/EE rock mx; 1000* (343; 1/21. Thomps. Victoria, SS, End of devotional, foll. by catchy song "Viva Perú," Dusual het (343; 2/1. Jones, MS)(253; 2/8. Moore, PA)</li> <li>D/EE, OM ancr, giving intros to mx selections in EE/DD, generally rock roll and R&amp;B mx, ID @0930, references to Super Radio, ads for Genera tric hrd. approximately 0945 and 0950 (443; 2/6. Lattemann, WA)(454)</li> </ul>	ruvian need as ats; [tar/ ze,LA) son,CA) (D, (D, (al Elec- ; 1/29; NY)
4955 4995 5010 5980 6020 <u>SUR INAN</u> 4850 <u>URUGUA</u>	1101 1042 1057 0935 1058 <u>M</u> -SRS 0910 <u>Y</u> -SODR	<ul> <li>over mx frequently (322; 1/11. Blaize, LA)</li> <li>Tropfcal, SS, Disco &amp; U.S. pop mx, ID as "R. Tropfcal," and "Tropfcal pfcal, <u>Troplifsimo</u>," (tropicalisimo?? cpjh) Hrd @1040 w/ typical Permx, very weak, much better at 1104 and able to ID. Tropfcal pronout "Tro-PEE-cal." (342; 1/19. Jones, MS)</li> <li>Cultural Amauta, SS, s/on w/ NA, full clear ID, nx, LAm singing, and 343; 1/20. Young, CA)</li> <li>Andina, SS, ID, tlk w/ Peruvian mx backup (353; 2/1. Jones, MS)([gui native flute vocals] 322; 1/21. Lobdel1, MA)</li> <li>Eco, SS, Peruvian flute mx, ID under Surcolombiana (412; 1/12. Blaiz: Panamericana, SS, continuous SS/EE rock mx; 1000* (343; 1/21. Thomps: Victoria, SS, End of devotional, foll. by catchy song "Viva Perú," I usual het (343; 2/1. Jones, MS)(253; 2/8. Moore, PA)</li> <li>D/EE, OM ancr, giving intros to mx selections in EE/DD, generally rock roll and R&amp;B mx, ID @0930, references to Super Radio, ads for Genera tric hrd. approximately 0945 and 0950 (443; 2/6. Lattemann, WA)(454; Donly, SC) (454; 2/6. Jones, MS) (433;1/31. Famularo,NJ) (343;1/17. Peck, 2011, Slow guitar mx, out of place "Bridge over the River Kwai 2315, occasional anmts as "servicio internacional," one @2340; (232;</li> </ul>	ruvian need as ats; Ltar/ ze,LA) son,CA) (D, c and ni Elec- ; 1/29; NY) L," @
4955 4995 5010 5980 6020 <u>SUR INAN</u> 4850 <u>URUGUA</u>	1101 1042 1057 0935 1058 <u>M</u> -SRS 0910 <u>Y</u> -SODR	<ul> <li>over mx frequently (322; 1/11. Blaize, LA)</li> <li>Tropfcal, SS, Disco &amp; U.S. pop mx, ID as "R. Tropfcal," and "Tropfcal pfcal, <u>Troplifsimo</u>," (tropicalisimo?? cpjh) Hrd @1040 w/ typical Permx, very weak, much better at 1104 and able to ID. Tropfcal pronout "Tro-PEE-cal." (342; 1/19. Jones, MS)</li> <li>Cultural Amauta, SS, s/on w/ NA, full clear ID, nx, LAm singing, and 343; 1/20. Young, CA)</li> <li>Andina, SS, ID, tlk w/ Peruvian mx backup (353; 2/1. Jones, MS)([guinative flute vocals] 322; 1/21. Lobdel1, MA)</li> <li>Eco, SS, Peruvian flute mx, ID under Surcolombiana (412; 1/12. Blaiz, Panamericana, SS, continuous SS/EE rock mx; 1000* (343; 1/21. Thomps, Victoria, SS, End of devotional, foll. by catchy song "Viva Perú," Jusual het (343; 2/1. Jones, MS)(253; 2/8. Moore, PA)</li> <li>D/EE, OM ancr, giving intros to mx selections in EE/DD, generally rock roll and R&amp;B mx, ID @0930, references to Super Radio, ads for Generatiric hrd. approximately 0945 and 0950 (443; 2/6. Lattemann, WA)(454; Donly, SC)(454; 2/6. Jones, MS)(433;1/31.Famularo,NJ)(343;1/17.Peck, (stands for: "Servicio Official de Difusion Radioelectrica,")</li> <li>S, no EE hrd, slow guitar mx, out of place "Bridge over the River Kwab</li> </ul>	ruvian need as ats; Ltar/ ze,LA) son,CA) (D, c and ni Elec- ; 1/29; NY) L," @
4955 4995 5010 5980 6020 <u>SUR INAN</u> 4850 <u>URUGUA</u>	1101 1042 1057 0935 1058 M-SRS 0910 Y-SODR 2310	<ul> <li>over mx frequently (322; 1/11. Blaize, LA)</li> <li>Tropfcal, SS, Disco &amp; U.S. pop mx, ID as "R. Tropfcal," and "Tropfcal production of the product of the production of the production of the product of the production of the product of</li></ul>	ruvian need as ats; ltar/ ze,LA) son,CA) (D, c and al Elec- ; 1/29; NY) L," @ ; 1/17.
4955 4995 5010 5980 6020 <u>SURINAN</u> 4850 <u>URUGUAN</u> 11885 <u>VENEZUI</u> 3255	1101 1042 1057 0935 1058 M-SRS 0910 Y-SODR 2310	<ul> <li>over mx frequently (322; 1/11. Blaize, LA)</li> <li>Tropfcal, SS, Disco &amp; U.S. pop mx, ID as "R. Tropfcal," and "Tropfcal pfcal, <u>Trop115imo</u>," (tropicalisimo?? cpjh) Hrd @1040 w/ typical Permx, very weak, much better at 1104 and able to ID. Tropfcal pronout "Tro-PEE-cal." (342; 1/19. Jones, MS)</li> <li>Cultural Amauta, SS, s/on w/ NA, full clear ID, nx, LAm singing, and 343; 1/20. Young, CA)</li> <li>Andina, SS, ID, tlk w/ Peruvian mx backup (353; 2/1. Jones, MS)([gui native flute vocals] 322; 1/21. Lobdel1, MA)</li> <li>Eco, SS, Peruvian flute mx, ID under Surcolombiana (412; 1/12. Blaiz Panamericana, SS, continuous SS/EE rock mx; 1000* (343; 1/21. Thomps. Victoria, SS, End of devotional, foll. by catchy song "Viva Perd," I usual het (343; 2/1. Jones, MS)(253; 2/8. Moore, PA)</li> <li>D/EE, OM ancr, giving intros to mx selections in EE/DD, generally rock rol1 and R&amp;B mx, ID @0930, references to Super Radio, ads for Generatic hrd. approximately 0945 and 0950 (443; 2/6. Lattemann, WA)(454; Donly, SC)(454; 2/6. Jones, MS)(433;1/31.Famularo,NJ)(343;1/17.Peck, (stands for: "Servicio Oficial de Difusión Radioeléctrica,")</li> <li>S, no EE hrd, slow guitar mx, out of place "Bridge over the River Kwai 2315, occasional anmts as "servicio internacional," one @2340; (232; Moore, PA)</li> <li>V del Tigre, SS, ID, mx; (333; 2/6. Nikolich, IL)(252; 2/1. Moore, PA)</li> </ul>	ruvian nced as ats; (tar/ ze,LA) son,CA) (D, (D, (D, (1) Elec- ; 1/29; NY) L," @ ; 1/17.
4955 4995 5010 5980 6020 <u>SURINA</u> 4850 <u>URUGUA</u> 11885 <u>VENEZUI</u>	1101 1042 1057 0935 1058 M-SRS 0910 Y-SODR 2310	<ul> <li>over mx frequently (322; 1/11. Blaize, LA)</li> <li>Tropfcal, SS, Disco &amp; U.S. pop mx, ID as "R. Tropfcal," and "Tropfcal pfcal, <u>Troplifsimo</u>," (tropicalisimo?? cpjh) Hrd @1040 w/ typical Permx, very weak, much better at 1104 and able to ID. Tropfcal pronout "Tro-PEE-cal." (342; 1/19. Jones, MS)</li> <li>Cultural Amauta, SS, s/on w/ NA, full clear ID, nx, LAm singing, and 343; 1/20. Young, CA)</li> <li>Andina, SS, ID, tlk w/ Peruvian mx backup (353; 2/1. Jones, MS)([guinative flute vocals] 322; 1/21. Lobdel1, MA)</li> <li>Eco, SS, Peruvian flute mx, ID under Surcolombiana (412; 1/12. Blaiz: Panamericana, SS, continuous SS/EE rock mx; 1000* (343; 1/21. Thomps Victoria, SS, End of devotional, foll. by catchy song "Viva Perd," Dusual het (343; 2/1. Jones, MS)(253; 2/8. Moore, PA)</li> <li>D/EE, OM ancr, giving intros to mx selections in EE/DD, generally rock roll and R&amp;B mx, ID @0930, references to Super Radio, ads for Genera tric hrd. approximately 0945 and 0950 (443; 2/6. Lattemann, WA)(454; Donly, SC)(454; 2/6. Jones, MS)(433;1/31.Famularo,NJ)(343;1/17.Peck, (stands for: "Servicio Oficial de Difusion Radioelectrica,")</li> <li>S, no EE hrd, slow guitar mx, out of place "Bridge over the River Kwat 2315, occasional anmts as "servicio internacional," one @2340; (232; Moore, PA)</li> <li>V del Tigre, SS, ID, mx; (333; 2/6. Nikolich, IL)(252; 2/1. Moore, PA)</li> </ul>	ruvian nced as ats; (tar/ ze,LA) son,CA) (D, (D, (1) Elec- ; 1/29; NY) L," @ ; 1/17. cation,
4955 4995 5010 5980 6020 <u>SURINAN</u> 4850 <u>URUGUAN</u> 11885 <u>VENEZUI</u> 3255	1101 1042 1057 0935 1058 M-SRS 0910 Y-SODR 2310	<ul> <li>over mx frequently (322; 1/11. Blaize, LA)</li> <li>Tropfcal, SS, Disco &amp; U.S. pop mx, ID as "R. Tropfcal," and "Tropfcal pfcal, <u>Troplifsimo</u>," (tropicalisimo?? cpjh) Hrd @1040 w/ typical Permx, very weak, much better at 1104 and able to ID. Tropfcal pronout "Tro-PEE-cal." (342; 1/19. Jones, MS)</li> <li>Cultural Amauta, SS, s/on w/ NA, full clear ID, nx, LAm singing, and 343; 1/20. Young, CA)</li> <li>Andina, SS, ID, 11k w/ Peruvian mx backup (353; 2/1. Jones, MS)([guinative flute vocals] 322; 1/21. Lobdel1, MA)</li> <li>Eco, SS, Peruvian flute mx, ID under Surcolombiana (412; 1/12. Blaiz, Panamericana, SS, continuous SS/EE rock mx; 1000* (343; 1/21. Thomps, Victoria, SS, End of devotional, foll. by catchy song "Viva Perú," I usual het (343; 2/1. Jones, MS)(253; 2/8. Moore, PA)</li> <li>D/EE, OM ancr, giving intros to mx selections in EE/DD, generally rock roll and R&amp;B mx, ID @0930, references to Super Radio, ads for Genera tric hrd. approximately 0945 and 0950 (443; 2/6. Lattemann, WA)(454; Donly, SC) (454; 2/6. Jones, MS)(433; 1/31. Famularo,NJ)(343;1/17.Peck, (stands for: "Servicio Oficial de Difusion Radioeléctrica,")</li> <li>S, no EE hrd, slow guitar mx, out of place "Bridge over the River Kwai 2315, occasional anmts as "servicio internacional," one @2340; (232; Moore, PA)</li> <li>V del Tigre, SS, ID, mx; (333; 2/6. Nikolich, IL)(252; 2/1. Moore, PA)</li> <li>NID, SS TC, poss. ID, campesino-type mx made me think this was a YV si distorted audio (322; 1/23. Lobdel1, MA)(Chris, there is a Venezula</li> </ul>	ruvian nced as ats; (tar/ ce,LA) son,CA) (D, c and al Elec- ; 1/29; NY) L," @ ; 1/17. ; ation, in on
4955 4995 5010 5980 6020 <u>SURINAN</u> 4850 <u>URUGUAN</u> 11885 <u>VENEZUI</u> 3255	1101 1042 1057 0935 1058 M-SRS 0910 Y-SODR 2310	<ul> <li>over mx frequently (322; 1/11. Blaize, LA)</li> <li>Tropfcal, SS, Disco &amp; U.S. pop mx, ID as "R. Tropfcal," and "Tropfcal pfcal, <u>Troplifsimo</u>," (tropicalisimo?? cpjh) Hrd @1040 w/ typical Permx, very weak, much better at 1104 and able to ID. Tropfcal pronout "Tro-PEE-cal." (342; 1/19. Jones, MS)</li> <li>Cultural Amauta, SS, s/on w/ NA, full clear ID, nx, LAm singing, and 343; 1/20. Young, CA)</li> <li>Andina, SS, ID, tlk w/ Peruvian mx backup (353; 2/1. Jones, MS)([guinative flute vocals] 322; 1/21. Lobdel1, MA)</li> <li>Eco, SS, Peruvian flute mx, ID under Surcolombiana (412; 1/12. Blaiz, Panamericana, SS, continuous SS/EE rock mx; 1000* (343; 1/21. Thomps, Victoria, SS, End of devotional, foll. by catchy song "Viva Perú," I usual het (343; 2/1. Jones, MS)(253; 2/8. Moore, PA)</li> <li>D/EE, OM ancr, giving intros to mx selections in EE/DD, generally rock roll and R&amp;B mx, ID @0930, references to Super Radio, ads for Genera tric hrd. approximately 0945 and 0950 (443; 2/6. Lattemann, WA)(454; Donly, SC) (454; 2/6. Jones, MS)(433;1/31.Famularo,NJ)(343;1/7. Peck, (stands for: "Servicio Oficial de Difusión Radioelectrica,")</li> <li>S, no EE hrd, slow guitar mx, out of place "Bridge over the River Kwai 2315, occasional anmts as "servicio internacional," one @2340; (232; Moore, PA)</li> <li>V del Tigre, SS, ID, mx; (333; 2/6. Nikolich, IL)(252; 2/1. Moore, PA)</li> <li>V del Tigre, SS, ID, mx; (333; 2/6. Nikolich, IL)(252; 2/1. Moore, PA)</li> </ul>	ruvian nced as ats; (tar/ ce,LA) son,CA) (D, c and al Elec- ; 1/29; NY) L," @ ; 1/17. ; ation, in on
4955 4995 5010 5980 6020 <u>SURINAN</u> 4850 <u>URUGUAN</u> 11885 <u>VENEZUI</u> 3255	1101 1042 1057 0935 1058 M-SRS 0910 Y-SODR 2310	<ul> <li>over mx frequently (322; 1/11. Blaize, LA)</li> <li>Tropfcal, SS, Disco &amp; U.S. pop mx, ID as "R. Tropfcal," and "Tropfcal pfcal, <u>Troplifsimo</u>," (tropicalisimo?? cpjh) Hrd @1040 w/ typical Permx, very weak, much better at 1104 and able to ID. Tropfcal pronout "Tro-PEE-cal." (342; 1/19. Jones, MS)</li> <li>Cultural Amauta, SS, s/on w/ NA, full clear ID, nx, LAm singing, and 343; 1/20. Young, CA)</li> <li>Andina, SS, ID, 11k w/ Peruvian mx backup (353; 2/1. Jones, MS)([guinative flute vocals] 322; 1/21. Lobdel1, MA)</li> <li>Eco, SS, Peruvian flute mx, ID under Surcolombiana (412; 1/12. Blaiz, Panamericana, SS, continuous SS/EE rock mx; 1000* (343; 1/21. Thomps, Victoria, SS, End of devotional, foll. by catchy song "Viva Perú," I usual het (343; 2/1. Jones, MS)(253; 2/8. Moore, PA)</li> <li>D/EE, OM ancr, giving intros to mx selections in EE/DD, generally rock roll and R&amp;B mx, ID @0930, references to Super Radio, ads for Genera tric hrd. approximately 0945 and 0950 (443; 2/6. Lattemann, WA)(454; Donly, SC) (454; 2/6. Jones, MS)(433; 1/31. Famularo,NJ)(343;1/17.Peck, (stands for: "Servicio Oficial de Difusion Radioeléctrica,")</li> <li>S, no EE hrd, slow guitar mx, out of place "Bridge over the River Kwai 2315, occasional anmts as "servicio internacional," one @2340; (232; Moore, PA)</li> <li>V del Tigre, SS, ID, mx; (333; 2/6. Nikolich, IL)(252; 2/1. Moore, PA)</li> <li>NID, SS TC, poss. ID, campesino-type mx made me think this was a YV si distorted audio (322; 1/23. Lobdel1, MA)(Chris, there is a Venezula</li> </ul>	ruvian nced as ats; (tar/ ce,LA) son,CA) (D, c and al Elec- ; 1/29; NY) L," @ ; 1/17. ; ation, in on
4955 4995 5010 5980 6020 <u>SURINAN</u> 4850 <u>URUGUAN</u> 11885 <u>VENEZUI</u> 3255 3284	1101 1042 1057 0935 1058 M-SRS 0910 Y-SODR 2310 ELA 0321 1129	<ul> <li>over mx frequently (322; 1/11. Blaize, LA)</li> <li>Tropfcal, SS, Disco &amp; U.S. pop mx, ID as "R. Tropfcal," and "Tropfcal pfcal, <u>Troplifsimo</u>," (tropicalisimo?? cpjh) Hrd @1040 w/ typical Peimx, very weak, much better at 1104 and able to ID. Tropfcal pronout "Tro-PEE-cal." (342; 1/19. Jones, MS)</li> <li>Cultural Amauta, SS, s/on w/ NA, full clear ID, nx, LAm singing, and 343; 1/20. Young, CA)</li> <li>Andina, SS, ID, tlk w/ Peruvian mx backup (353; 2/1. Jones, MS)([guinative flute vocals] 322; 1/21. Lobdel1, MA)</li> <li>Eco, SS, Peruvian flute mx, ID under Surcolombiana (412; 1/12. Blaiz, Panamericana, SS, continuous SS/EE rock mx; 1000* (343; 1/21. Thomps Victoria, SS, End of devotional, foll. by catchy song "Viva Perd," Jusual het (343; 2/1. Jones, MS)(253; 2/8. Moore, PA)</li> <li>D/EE, OM ancr, giving intros to mx selections in EE/DD, generally rock roll and R&amp;B mx, ID @0930, references to Super Radio, ads for Genera tric hrd. approximately 0945 and 0950 (443; 2/6. Lattemann, WA)(454; Donly, SC) (454; 2/6. Jones, MS)(433;1/31. Famularo,NJ)(343;1/17.Peck, (stands for: "Servicio Official de Difusion Radioelectrica,")</li> <li>S, no EE hrd, slow guitar mx, out of place "Bridge over the River Kwai 2315, occasional anmts as "servicio internacional," one @2340; (232; Moore, PA)</li> <li>V del Tigre, SS, ID, mx; (333; 2/6. Nikolich, IL)(252; 2/1. Moore, PA)</li> <li>V del Tigre, SS, ID, mx; (333; 2/6. Nikolich, IL)(252; 2/1. Moore, PA)</li> <li>NID, SS TC, poss. ID, campesino-type mx made me think this was a YV si distorted audio (322; 1/23. Lobdel1, MA) (Chris, there is a Venezuela 3285, but never before reported R. Puerto Cabello was TC consi vith YV time? [GMT - 4 Atlantic Zone time] cpjh)</li> <li>Monagas, SS, rel mx, ID; (323; 1/27. Tannenwald, NY)</li> <li>Impacto, SS, befsbol game to 0530, foll. by ID, s/off anmt, and NA-C</li> </ul>	ruvian nced as ats; (tar/ ce,LA) son,CA) (D, c and al Elec- ; 1/29; NY) L,"@ ; 1/17. ation, in on Istent 2539*
4955 4995 5010 5980 6020 <u>SURINAN</u> 4850 <u>URUGUAN</u> 11885 <u>VENEZUI</u> 3255 3284	1101 1042 1057 0935 1058 M-SRS 0910 Y-SODR 2310 ELA 0321 1129 1045	<ul> <li>over mx frequently (322; 1/11. Blaize, LA)</li> <li>Tropfcal, SS, Disco &amp; U.S. pop mx, ID as "R. Tropfcal," and "Tropfcal pfcal, <u>Troplifsimo</u>," (tropicalisimo?? cpjh) Hrd @1040 w/ typical Permx, very weak, much better at 1104 and able to ID. Tropfcal pronout "Tro-PEE-cal." (342; 1/19. Jones, MS)</li> <li>Cultural Amauta, SS, s/on w/ NA, full clear ID, nx, LAm singing, and 343; 1/20. Young, CA)</li> <li>Andina, SS, ID, tlk w/ Peruvian mx backup (353; 2/1. Jones, MS)([gu: native flute vocals] 322; 1/21. Lobdel1, MA)</li> <li>Eco, SS, Peruvian flute mx, ID under Surcolombiana (412; 1/12. Blaiz: Panamericana, SS, continuous SS/EE rock mx; 1000* (343; 1/21. Thomps: Victoria, SS, End of devotional, foll. by catchy song "Viva Perú," I usual het (343; 2/1. Jones, MS)(253; 2/8. Moore, PA)</li> <li>D/EE, OM ancr, giving intros to mx selections in EE/DD, generally rock roll and R&amp;B mx, ID @0930, references to Super Radio, ads for Genera tric hrd. approximately 0945 and 0950 (443; 2/6. Lattemann, WA)(454; Donly, SC) (454; 2/6. Jones, MS) (433; 1/31. Famularo, NJ) (343; 1/17. Peck, (stands for: "Servicio Oficial de Difusion Radioelectrica,")</li> <li>S, no EE hrd, slow guitar mx, out of place "Bridge over the River Kwai 2315, occasional anmts as "servicio internacional," one @2340; (232; Moore, PA)</li> <li>V del Tigre, SS, ID, mx; (333; 2/6. Nikolich, IL)(252; 2/1. Moore, PA)</li> <li>V del Tigre, SS, ID, mx; (333; 1/27. Tannenwald, MY)</li> <li>Impacto, SS, befsbel game to 0530, foll. by ID, s/off anmt, and NA-C (433; 2/8. Hoffman, PA)([San Juan, PR "Cardinales" vs. Venezuela 34</li> </ul>	ruvian nced as ats; (tar/ ce,LA) son,CA) (D, c and al Elec- ; 1/29; NY) L,"@ ; 1/17. ation, in on Istent 2539*
4955 4995 5010 5980 6020 <u>SURINAI</u> 4850 <u>URUGUA</u> 11885 <u>VENEZUI</u> 3255 3284 3325 3355	1101 1042 1057 0935 1058 M-SRS 0910 Y-SODR 2310 ELA 0321 1129 1045 0515	<ul> <li>over mx frequently (322; 1/11. Blaize, LA)</li> <li>Tropfcal, SS, Disco &amp; U.S. pop mx, ID as "R. Tropfcal," and "Tropfcal pfcal, <u>Troplifsimo</u>," (tropicalisimo?? cpjh) Hrd @1040 w/ typical Permx, very weak, much better at 1104 and able to ID. Tropfcal pronout "Tro-PEE-cal." (342; 1/19. Jones, MS)</li> <li>Cultural Amauta, SS, s/on w/ NA, full clear ID, nx, LAm singing, and 343; 1/20. Young, CA)</li> <li>Andina, SS, ID, tlk w/ Peruvian mx backup (353; 2/1. Jones, MS)([gut native flute vocals] 322; 1/21. Lobdel1, MA)</li> <li>Eco, SS, Peruvian flute mx, ID under Surcolombiana (412; 1/12. Blaiz Panamericana, SS, continuous SS/EE rock mx; 1000* (343; 1/21. Thomps. Victoria, SS, End of devotional, foll. by catchy song "Viva Perd," Dusual het (343; 2/1. Jones, MS)(253; 2/8. Moore, PA)</li> <li>D/EE, OM ancr, giving intros to mx selections in EE/DD, generally rock roll and R&amp;B mx, ID @0930, references to Super Radio, ads for Generatic hrd. approximately 0945 and 0950 (443; 2/6. Lattemann, WA)(454; Donly, SC)(454; 2/6. Jones, MS)(433;1/31.Famularo,NJ)(343;1/17.Peck, (stands for: "Servicio Oficial de Difusion Radioeléctrica,")</li> <li>S, no EE hrd, slow guitar mx, out of place "Bridge over the River Kwai 2315, occasional anmts as "servicio internacional," one @2340; (232; Moore, PA)</li> <li>V del Tigre, SS, ID, mx; (333; 2/6. Nikolich, IL)(252; 2/1. Moore, PA)</li> <li>NID, SS TC, poss. ID, campesino-type mx made me think this was a YV si distorted audio (322; 1/23. Lobdel1, MA)(Chris, there is a Venezuela 3285, but never before reported R. Puerto Cabello was TC consi vith YV time? [GMT - 4 Atlantic Zone time] cpjh)</li> <li>Monagas, SS, rel mx, ID; (323; 1/27. Tannenvald, NY)</li> <li>Impacto, SS, belsbol game to 0530, foll. by ID, s/off anmt, and NA-C (433; 2/8. Hoffman, PA)([San Juan, PR "Cardinales" vs. Venezuela] 34 2/8. Lobdel1, MA)</li> </ul>	ruvian nced as ats; ltar/ ze,LA) son,CA) [D, c and al Elec- ; 1/29; NY) L," @ ; 1/17. cation, in on .stent 2539* 13;
4955 4995 5010 5980 6020 <u>SURINAN</u> 4850 <u>URUGUAN</u> 11885 <u>VENEZUI</u> 3255 3284	1101 1042 1057 0935 1058 M-SRS 0910 Y-SODR 2310 ELA 0321 1129 1045	<ul> <li>over mx frequently (322; 1/11. Blaize, LA)</li> <li>Tropfcal, SS, Disco &amp; U.S. pop mx, ID as "R. Tropfcal," and "Tropfcal pfcal, <u>Troplifsimo</u>," (tropicalisimo?? cpjh) Hrd @1040 w/ typical Permx, very weak, much better at 1104 and able to ID. Tropfcal pronout "Tro-PEE-cal." (342; 1/19. Jones, MS)</li> <li>Cultural Amauta, SS, s/on w/ NA, full clear ID, nx, LAm singing, and 343; 1/20. Young, CA)</li> <li>Andina, SS, ID, tlk w/ Peruvian mx backup (353; 2/1. Jones, MS)([gu: native flute vocals] 322; 1/21. Lobdel1, MA)</li> <li>Eco, SS, Peruvian flute mx, ID under Surcolombiana (412; 1/12. Blaiz: Panamericana, SS, continuous SS/EE rock mx; 1000* (343; 1/21. Thomps: Victoria, SS, End of devotional, foll. by catchy song "Viva Perú," I usual het (343; 2/1. Jones, MS)(253; 2/8. Moore, PA)</li> <li>D/EE, OM ancr, giving intros to mx selections in EE/DD, generally rock roll and R&amp;B mx, ID @0930, references to Super Radio, ads for Genera tric hrd. approximately 0945 and 0950 (443; 2/6. Lattemann, WA)(454; Donly, SC) (454; 2/6. Jones, MS) (433; 1/31. Famularo, NJ) (343; 1/17. Peck, (stands for: "Servicio Oficial de Difusion Radioelectrica,")</li> <li>S, no EE hrd, slow guitar mx, out of place "Bridge over the River Kwai 2315, occasional anmts as "servicio internacional," one @2340; (232; Moore, PA)</li> <li>V del Tigre, SS, ID, mx; (333; 2/6. Nikolich, IL)(252; 2/1. Moore, PA)</li> <li>V del Tigre, SS, ID, mx; (333; 1/27. Tannenwald, MY)</li> <li>Impacto, SS, befsbel game to 0530, foll. by ID, s/off anmt, and NA-C (433; 2/8. Hoffman, PA)([San Juan, PR "Cardinales" vs. Venezuela 34</li> </ul>	ruvian nced as ats; ltar/ ze,LA) son,CA) [D, c and al Elec- ; 1/29; NY) L," @ ; 1/17. cation, in on .stent 2539* 13;

3395	0427	R. Universidad, SS, anmats, ID, on late (252; 1/21. Moore, PA) (["R. Universi
		dad, con musica"]222; 1/14. Getzel, NY)
4770	0234	R. Bolfvar, SS, ID, ads, one for G.E., typical Venezuelan mx; (343; 1/30. Jones, MS)
4780	1007	LV de Carabobo, SS ID, mx, nx by OM&YL, (454; 1/23. Lobdell, MA)(353; 1/18. Moore, PA)
4840	0210	R. Valera, SS, mx, anmats, ID; (322; 1/22. Tannenwald, NY)
4800		R. Lara, SS, on the air late due to coverage of live sx event, two OMM with sx cmt; (444; 2/8. Hoffman, PA)
4880		R. Universo, SS, OM w/ rooster/cow noises, lengthy folksong (15 minutes!) more folk mx, and animal noises (544; 1/21. Thompson, CA) +3
4900	1000	R. Juventud, SS, ID? "Mósica para Juventud" pop mx, w/ DJ, ads, more mx, (444; 2/3. Dubee, CA) +4
4940	1005	R. Yaracuy, SS, OM ID, jingles, pop mx, (333; 1/21. Thompson, CA)
4960	2303	R. Sucre, SS, OM, Rumbos nx; (252; 1/28. Moore, PA)
4970	1030	R. Rumbos, SS, very fast tlk w/ ID, and bell or tone like doorbell sound in background (same tlk on 4960, R. Sucre)(433;2/3.Dubee,CA) +3
4980	1045	Ecos del Torbes, SS, mx w/ DJ, ads, sung ID @1100, and "Transmite Ecos del Torbes, San Cristobal," nx same bells as R. Rumbos at times (444; 2/3 Dubee, CA) +4
		R. Barquisimeto, SS, s/on, NA, ID as "R. Barquisimeto Internacional," TC, L mx, few interruptions until 1110 ads and "R. Nacional de Periodismo," nx at 1115 with doorbell between each item and machine-gun delivery. (444; 2/9. Brown, IL)
5030	0355	R. Reloj Continente, SS, OM ancr, ID as "Radio Continente," TC @0415, some Disco, mostly tropical mx; (353; 1/4. Rosewarne, CA) +5
5050	0407	R. Mundial, SS, local max, OM anmats, ID; UTE QRM (212; 1/29. Moore, PA)
6010	1057	R. Mil Cuarenta, SS, mx, then YL ID: "R. Mil Cuarenta," TC, into love song; (333; 2/9. Hansen, NY)
		R. Angostura, SS, NA, ID, calls, fqys., into typical Venezuelan mx, much QR from LLano 6115 (322; 1/20. Jones, MS)
6170	1035	R. Nacional, SS, ID, TC, tlk, typical Venezuelan mx; (443; 2/6. Jones, MS)
6190	1030	Ecos del Torbes, SS, musical jingle ID @1030, OM ancr, lively Latin mx; (32 1/30. Lattemann, WA) +3
9660	0605	R. Rumbos, SS, OM w/ ID's, jingles, pop mx; (544; 1/21. Thompson, CA)

## NORTH AND CENTRAL AMERICA

ANTIGUA		
6175	0705	BBC Relay, EE, world nx, nx about Britain, sked of px, Big Ben, "From Our Own
		Correspondent" (545; 1/14. Dubee, CA) [The BBC U.S. office is in the buil-
		ding in which I work, and it is a thrill to meet Alistair Cooke walking
		through the lobby going to record "Letter From Americal" cpjh] +3
9510	0655	BBC, EE, "Music Feature" px, nx @0700 (444; 1/20. Dubee, CA)
9545		DW, EE, nx; (444; 1/24. Woltman, WI)
9690	0600	DW, EE/GG, "This is R. DW, Caribbean Relay Station," YL tlk in GG, OM nx
		(434; 1/16. Oakley, CA)
11775	1500	BBC, EE, Radio Nxreel, Shah needs rest (434; 1/6. Oakley, CA) +1
15150	1310	DW, GG, OM tlk, mentions of Carter and Teng (444; 2/1. Brodsky, NY)
17830	2000	BBC, EE, world nx; (544; 1/6. Stone, ON) +1
BELIZE	-R. Be	lize
3285	0226	EE, "World Roundup," VOA nx items, ID by YL @0230 (422;1/30.Jones, MS)
CANADA		
5.22?	0245	CBCNS, EE, countdown of top Canadian hits @0300, into FF, no mention made of
		this fq. [Because you were probably on 5285, which is 910 kHz less than
		6195. You were hearing a xmission audible only with your receiver (hi!).
		Seriously, you should have your receiver aligned you are picking up an
		image at double your IF - 455 kHz. cpjh](333; 1/18. Pallen, PQ)
5960	0320	RCI, EE, OM tlk, Bert Taylor reporting, 0330* (434;1/9.0akley, CA) +4
5995	2200	RCI, EE, Dr. Wood's logging in Jan. SPEEDX should have been listed under U.K.
		rather than CANADA, all RCI bc's on 5995 are from Daventry not Sackville
		(Hoffman, PA)
6005	1340	CFCX, EE, weather report, rock mx, ads; (433; 1/24. Dilk, NJ) +1
6065	1305	CBCNS, EE, nx in FF, tlk in EE on ethnic background of Canada (433; 1/7. Dilk, NJ) +1
6070	1350	CFRX, EE, community anats, TC, OM ancr, into nx 1358, ID as "CFRB," [Those
		who don't have this should get it now it's going off shortly. cpjh]
		(555; 1/20. Pyne, MD) +2

## CANADA-continued

6080 0900 CKFX, Vancouver, EE, just heard snatches of a DJ in EE, w/ country and western mx, so I called up the station and talked with the DJ, Barry Kaye, who put me on the air for 15 minutes and confirmed my report right over the airwaves. Luckily I had recognized a couple of the tunes. Thanks to fellow DXer Kevin Mikell for the tip--I've tried for this one for 8 years, finally, success. Kaye confirmed the power as 10 watts and said the beam was out to the Pacific Ocean. (131; 1/26. Nikolich, IL) (C&W mx, ID, TC, a regular here between 0900-0930 [332; 1/31. Harmas, UT]) CHNX, EE, wx, nx, ID, pop mx; (233; 1/13. Macris, MO) 6130 1225

9625 0445 CBCNS, EE, play, nx, tlk of eating seal meat tainted with mercury [No thanks, Tom, I'll stick to swordfish. cpjh](333; 1/23. Smith, FL) +2 WA) 9655 0645 RCI, EE, IS, YL ancr w/ ID, fqs, world and Canadian nx; (333; 1/30. Lattemann, 9755 0323 RCI, EE, talk about effects of microwaves on humans (323; 1/12. Blaize,LA) RCI, EE/FF, nx, cmt, to Europe (555; 1/16. Johnson, FL) 11735 0630 11845 1315 RCI, EE, DXDigest; (444; 1/29. Rudolph, AL) 11945 \*2130 RCI, EE, IS, ID's, fqs; nx, sports, (444; 1/29. Thompson, NM) +1 15150 2130 RCI, EE, nx, special evacuation nx to Canadians in Iran (555; 2/1. Mellinger, NJ)(444; 1/14. Dubee, CA) RCI, EE/SS, OM tlk, Tutankhamen exhibit (434; 1/27. Oakley, CA) RCI, EE, African Svce, DXDigest; (544; 1/14. Pettit, IA) +1 2145 15325 17760 1800

RCI, EE, nx, mailbag, to Africa (544; 2/4. Curtis, TN)(555;1/22.Leeman, RI) 17820 1905 17830 2030 BBC Relay, EE, Interview w/ Australian snooker and pool player, sx px, (555; 1/22. Stone, ON)

COSTA RICA

Just a note here -- I have been corrected in several particulars as to the address and schedule of "Aquí Costa Rica," the program over R. Reloj. Here are the salient details: The schedule is: 0700 GMT Sundays, and 0300 GMT Tuesday [local Monday]; The address for reports is: "Aquí Costa Rica, Apartado 2936, San José, Costa Rica." A statement on the QSL says: "Please spread the word around regarding 'ACR.' Ours A statement on the QSL says: "Please spread the word around regarding 'ACR.' Ours is a private, non-commercial program, based exclusively on good will. Your state [Massachusetts. cpjh] is A-OK. I lived in DC for 14 solid years, and know my way around! Please write again with additional data. Cordially, Roberto E. Aragon." Senor Aragon, consider the word spread! Thanks to Chris Lobdell for setting me right -- that'll teach me to rely on my memory!! Chris Hansen

4832	0500	R. Reloj, SS, OM w/ pop mx, instrumentals and SS vocals, several ads for Ron-
		rico Rum, (444; 1/6. George, TX) +7
5055	1126	Faro del Caribe, SS, ballads, talk about the Gospel, the great power of Jesus,
		live witnesses in the studio (444; $1/23$ . Hansen, NY) +2
5960	1045	R. Casino, SS, local mx, ads for Ronrico Rum and the Banco de Costa Rica,
		frequent ID's; @1100 YL px " del Pueblo" (243; 2/2. Moore, PA)
6006	0690	R. Reloj. SS. LAm pop mx, tlk by OM. IDing now as "R. Reloj - Numero Uno!"
		(444; 1/30. Radcliff, IL) +2
6008	0613	R. Reloj, SS, who could this be, ID's for Reloj, but I'd swear that they're
		2 kHz above their fq; (possible, Tom, I suppose, cpth)(333;2/5.Smith, CA)
6035a	0745	R. Reloj, SS, 2 clear ID's: "R. Periodico Reloj," (343; 1/4. Rosewarne, CA)
		(They were reported once last month on this frequency, so perhaps they're
		testing. cpjh)
6101	0015	R. Universidad, SS, OM ancr, ID, "Programa de Lenguaje Cotidiano," (242; 1/28
		Aisemberg, CA)
9645	0305	Faro del Caribe, EE, after SS, EE ID, fqs., address, rel. px; (322; 1/31.

Famularo, NJ)+1

CUBA-R. Havana Cuba

5940 \*1055 FF, IS, ID, think fqy. ancd. as usual 6060 but not there. Trouble at xmitter Back on 6060 on 1/23. Must have been technical goof on 1/22. (444;1/22.) Jones, MS)

6060 2215 SS, station ID, continuous Cuban mx; (433; 1/27. Stone, ON)

7320? 0030 USSR Relay via Cuba??; SS, OM anc, interview, propaganda (434; 1/27. Johnson, FL) (Never heard of this and it hasn't been reported -- are you sure about it?? It would be against ITU rules to bc. SWBC in the Western Hemisphere on the 40 mb. cpth)

11760 0342 EE, cmt on the Cambodian situation, USSR & China's involvement (544; 2/4. Curtis, TN) +4

- EE, Cuba and the Olympics (344; 2/2. Wampler, VA) +2 11930 0152
- SS, OM tx, speeches (444; 2/1. Brodsky, NY) 15230 1255

EE, tlk on Nicaragua, solidarity with Kampuchea, ID @2117 (333; 1/6. Hodsdon, 17750 2050

## DOMINICAN REPUBLIC

5970 1145 RTV Dominicana, SS, LAm mx, tlk, many ID's (333; 1/19. Zilmer, WI)

9505 0050 RTV Dominicana, SS, address in SS by Pope John Paul II (433; 1/26. Johnson, FL)

MN)

DOMIN	ICAN R	<u>EPUBLIC</u> -continued
		R. Clarín, SS, tlk, LAm mx, ID's (333; 1/29. Zilmer, WI) +1
3999	0128	Lang, pop mx, native language anmts, mention of "Grønlands Radio," (333; 1/22 Young, CA)
5980		IS, under QRM from KGEI's Chinese service (222; 1/18. Peck, NY)
	2018	Grenada EE, ID @2018, "The Music Man" px, mx; (343; 1/31. Donly, SC) +2
GUATE: 3300	0402	R. Cultural, EE/SS, New Life Hour (why is it only ½ hour??) s/off anmts and 0428* (322; 2/1. Hansen, NY) +9
3325	1122	R. Maya de Barillas, Lang; marimba mx, anmts: TC: (253, 1/31 Moore PA) PA)+2
3360 4825	0320 0245	LV de Nahualá, SS, ranchera mx, IDs as "R. La Voz de Nahualá," (233; 2/1. Moore, R. Mam, Lang, tlk, marimbas; (333; 1/25. Lobdell, MA) +2
4835	1205	R. Tezulutan, SS, marimba mx, only slight QRM from Reloj, which was fading (244; 2/2. Moore, PA)
6180	0555	LV de Guatemala, SS, mx, anmts by OM, call letters, (333; 1/3. Rosewarne,CA)+1
HAITI 5641	0100	I believe the 1979 WRTH resolves the contradiction on what this is. On 1410 (of which this is 4th harmonic) is listed La Voix du Nord- <u>Ouest</u> , 200 W. station in Port-de-Paix. Heard here 1/13 0100 with FF tlk and mx, but no ID heard, tux to tip from Derek Lowe; off by 0200 (Hauser, TN)
9770 11835	2359 2302	4VEH, EE, s/off in EE, still on SW; (434; 1/20. Pyne, MD) +1         CA)+3           4VEH, EE, rel mx, tlk, "Boys and Girls for Jesus" ID @2330; (433;1/13.Thompson
HONDUR	AS	
4/80	1140	R. Juticalpa, SS, long ad string, Casagama (store), Instituto Nacional de Formación Professional, Tractores John Deere, "Have a Pepsi Day!" (354; 2/8. Moore, PA) +2
4820	0430	LV Evangelica, EE, px "Night Sounds" 0500* (433; 2/8. Talbot, WI) +3 [Asked
4890	0200*	R. Lux, SS, BeeGee mx, ID, names of station personnel call fave (MAA, 1/19
4920 4965	0258	<ul> <li>R. Progreso, SS, OM ancr, 3 ID's @0300, mx; (232; 1/16. Hensley, TX)</li> <li>R. Landia, SS, het, QRN from neighbor's electric blanket or heating pad, px: "Rancheras de la mañana," TC's, Coke ad, ID @1149: "Aquí R. Landia, centro- americana," ID over Clarke's "Trumpet Voluntary"(222; 1/23. Hansen, NY)+2</li> </ul>
MEXICO	22/7	
11770	0145	
15385 15430	2150 0055	R. México, SS, ID, fq. anmt, most mx; (454; 12/18. Rosewarne, CA) +1 WI)+1 R. México, SS, pop mx, disco, tlk; //9705 [322], 5985 [443]; (333;1/23.Zilmer
We'll s 19 repo	skip t orts t	he Netherlands Antilles this month, since we are swiftly running out of room. his month.
	STATE	S OF AMERICA
1624		WPRN, EE, Beatles album, short ID anmt @0559, then straight mx, probably Brooklyn (353; 2/18. Hansen, NY)
1625	0515	WELO, EE, oldies mx, wx for Eastern USA, phone in with loop number (212)355- 9979. I called, and said I was farthest caller that night. No QSL's yet, but planned. Location is NYC, would not give power (353; 2/3. Moore, PA) (I tried to get this one night when I knew they were on their ground must be very poor, as I could not get them by ground wave, and of course the skywave went over my head. cpih)
3415	0619	Pirate, no talk, played nothing but mx from "Saturday Night Fever," played some songs several times over, 0652* (553; 1/20. Howell, CA)
6220	0510	VOVoyager, EE, usual format w/ pop song sung by YL and orchestra, phone calls, laughing, tlk on weather (232; 1/14. Peck, NY)(usual chatter; tel: (612) 537-9929, in Minnesota. Sked given as 0300-0600 Friday and Saturday [but now off friends have begun "Voice of Venus"]: 322: 1/13. Brookwell CA)
9060	1903	KGA, mx, poor signal, harmonic, Chief Engineer called and is remedying the problem (222; 1/29. Harms, UT)
9690	2140	WYFR, EE, talked about test-tube (in vitro) fertilization, ID, to Europe (444; 1/16. Earhart, PA)
10240		VOA SSB Feeders on same fq - one in Polish and the other into Bulgarian. Why same fq. (Poss. different sites?? cpjh)(Brookwell. CA)
15145	0135	WINB, Fine Arts Radio, Address: "P.O. Box 1003, Waterloo, IA 50704." Want letters suggesting new programs. Might open up full-time SWBC (555: 2/10
JUST EN	OUGH R	Cereghin, MD) plus 43 other reports of the United States. COM TO THANK ALL 93 REPORTERS AND HOPE TO SEE
14	C NEXT	MONTH.

Å	SWE	BC - EUROPE EDITOR
( Internet	1	TIM McCURDY
0	1	271 Starlight Crest
IIIII	-	La Canada CA 91011
111.		Deadline: 15th
	yen	Times and Dates: GMT
11-1-	M.J.C.	requencies: kliz
AIBAN	IA	(Your editor this month is JIM MAYER)
5057	0605	R. Gjirokaster; Albanian gypsy mx singing (322 1/21 Blaize-IA)
7065	*0000	(Getzel-NY)(Fisher-MA)(Seymour-NC) R. Tirana; EE S/on w/trumpets and anthem tlk on hydropower
7120	0130	plant construction (555 1/15 Martin-RI)(Hodsdon-MN) R. Tirana; EE Tlk abt. revolution in Iran and American
7300	*0330	Imperialism (444 1/20 Koelble-OH) R. Tirana; EE ID tlk on China (544 1/16 Skora-ONT)
9480	2203	R. Tirana; EE Nx cmty on the "great victory" of the Iranian
9500	1932	people (523 1/19 Pallen-QUE)(Hodsdon-MN) R. Tirana; EE Tlk abt. improvements in the Albanian economy
9750	0005	(433 1/13 Yajko-PA)(Radcliff-II) R. Tirana; EE Tlk of Youth in Albania (544 1/16 Stone-ONT)
9790	0100	R. Tirana; SS Wid nx cmty (555 1/16 Johnson-FL)(Thompson-CA)
AUSTRI	[A	
5945	0439	ORF; EE Tlk on travel mx ID (433 1/9 Skora-ONT)(Smith-FL) (Forbes-TX)
6155	0138	ORF: EE Yl tlk Austrian mx (322 w/heavy QRM 1/15 Mayer-CA) (Yajko-PA)(Lindsey-NJ)
9770	0130	ORF; EE "Report From Austria" (434 1/18 Koelble-OH)(@ 0000 Snyder-NY)(Curtis-TN)(Franzis-CT)
21530	1230	ORF; EE Nx "Weekend Review" mx (454 1/6 Fraser-MA)(Koelble-OH)
21715	1230	(Yajko-PA) ORF; EE "Austria Calling" //21530 (332 1/27 Zilmer-WI)
BELGIU	M	
6080	0015	BRT; EE Tlk on the International Film Festival (333 1/16
	0019	noimes-TX)(Piszczek-NY)(Maver-CA)(Johnson-FI)(Morrigon NC)
21460	1525	(Wampler-VA)(Snyder-NY)(Earhart-PA)(Yajko-PA)(Cereghin-MD) BRT: FF Drum IS *1530 mx tlk (333 1/20 Pettit-IA)
BULGAR	IA	
7115	0430	R. Sofia: FF ID my DY n > (1/12 + /ot 11-
	-	R. Sofia; EE ID nx DX P6. (443 1/21 Harms-UT)(Lattemann-WA) (Pasternak-ONT)(Smith-FL)(Peck-NY)
9560 9700	2330 1943	R. Sofia; SS IS s/on nx by om (333 1/10 Maghakian-CA)
		R. Sofia: FE Letters from listeners contest info. (333 1/14 Yajko-PA)
9705	0014	R. Sofia: EE ID cmty on Kampuchea (433 1/13 Wampler-VA) (Pettit-IA)(Johnson-FL)(Koelble-OH)(Earhart-PA)(Hodsdon-MN)
9765	0440	R. Sofia; EE Tlk on Yugoslav-Bulgarian relations DX pgm (433 2/10 Novak-CA)
CZECHO	SLOVAKIA	
5930	*0100	R. Prague; EE ID nx folk mx cmty (353 1/18 Snyder-NY)(1/25
7345	0100	R, Prague: EE "Topics of the Day" my for tone recording
9540	0130	R. Prague; EE Tlk on Rehabilitation of asthmatic ratients
11990	0350	(543 2/7 Lindsey-NJ) R. Prague; EE "Mailbag" sked (555 1/4 Koelble-OH)(Dubee-CA)
DENMAR	K	
15165	1725	R. Denmark; Danish 1000HZ tone EE ID IS (353 1/29 Donly-SC)

## FINLAND

9565 15210	2333 1410	R. Finland; EE Nx by om on Finland (433 1/10 Maghakian-CA) R. Finland; EE "Sunday in Review" (333 w/ORM 1/7 Prath-Fl) (Hodsdon-MN)
15400	1415	R. Finland; EE Tlk on tourism in Finland "Standpoint" (444 2/4 Shridharani-NY)(Zilmer-WI)(Schroeder-WI)(Earhart-PA) (Hauser-TN)(Hodsdon-MN)(Seymour-NC)(Franzis-CT)(Yajko-PA)

## FRANCE

6175	0745	RF1; FF Om/yl tlk mx nx @ 0800 (232 2/10 Smith-CA)
11705	0500	RFI; FF Frea./time given mx (253 12/22 Proom-UK) Old logging
11735	0855	RFI; FF IS ID pop mx (332 1/18 Miller-CA)
11790	0730	RFI; FF Nx by om ID contest info. mx (433 1/15 Dubee-CA)
15120	1725	RFI: EE "Iaris Calling Africa" nx tlk on China (222 2/11
		Dubee-CA)
15210	1715	RFI; EE "PCA" wld. nx (232 2/1 lattemann-VA)(Sklarson-SASK)
		(Hodsdon-MN)
15300	1720	RFI; EE "PCA" mx nx ID freds. OTH "Spotlight on Africa"
		(454 2/3 Worrel-ND)(Stone-ONT)(Martin-RI)(Lindsey-NJ)
17850	1715	RFI; EE "PCA" w/afrc mx (534 1/13 Thompson-CA)(Dubee-CA)
21580	1700	RFI; EE ID nx listener's letters mx requests (444 1/28
		Famularo-NJ)(Dubee-CA)(Yajko-PA)(Dilk-NJ)(Fraser-MA)
21620	1704	RFI; EE "PCA" nx mx $(333 1/24 \text{ Woltman-WI})(\text{Smith-FI})$
LICEU	1104	MI, DE TOR HA MA (JJJ) 1/24 WOILMAN-WI/(Smith-Fi)

## FED. REP. of GERMANY

#### DEUTSCHE WELLE 3995 0335 GG; Om tlk mentions of the German Mark (222 1/31 Brodsky-NY) (Dilk-NJ)(Donly-SC) 7285 \*0600 GG: Nx to Australia/New Zealand (444 1/19 Pimblett-AIBERTA) GG: Om tlk (232 2/1) Smith-CA) Include more details....ed GG: Pgm of rock/pop mx (444 1/27 Johnson-Fl)(Brodsky-NY) EE: Arts pgm ID mx (333 1/23 Famularo-NJ) FE: Nx into vern. @ 1245 (444 2/7 Mellinger-NJ) 9545 0626 9735 9765 0115 2130 21600 12:30

## RADIO FREE EUROPE/RADIO LIBERTY

15340		RL; Lang. IS om/yl tlk (311 w/heavy GRM 2/4 Famularo-NJ)
17865	1510	RFE; Hungarian U.S. rock mx ancmt by om (333 1/7 Prath-FL)
21720	1535	RFE; Slovak Pop mx pgm ID (433 1/7 Prath-FL)

#### SUDWESTFUNK

7265 2247 GG; Pop mx ARO QRM (422 2/1 Wampler-VA)

## DEM. REP. of GERMANY

9730	0100	RBI; EE Nx headlines from the GDR (423 1/22 Lindsey-NJ)
		(@ 1840 Yajko-PA)(Franzis-CT)(Johnson-FL)
11805	0235	RBI; EE Tlk abt. the Kampuchean Government (333 1/27 Yajko-PA)
15170	1830	RBI; EE "Mailbag" to Africa (323 1/21 Franzis-CT)(Yajko-PA)
17880	1530	RBI; EE Nx cmty sx report (322 2/12 Lorz-NY)(Yajko-PÅ)

### GREECE

6140	0700	VOG; Greek nx lite mx intended for Europe (343 1/16
		Pompe-BELGIUM)
9515	0350	VOG; Greek tlk by om fregs. ORM (322 1/20 Peck-NY)(Johnson-FL)
9530	1900	VOG; Greek IS anthem s/on nx @ 1904 (343 1/28 Donly-SC)
9760	0630	VOG; Greek? IS s/on 0632 (423 1/23 Pettit-IA)
11730	1505	VOG; Greek/EE Om/yl tlk ID mx nx (433 1/14 Oakley-CA)(@ 0215
		Koelble-OH)(Radcliff-II)(Coleman-MA)(Johnson-FI)(Hrivnak-II)
17830	1815	VOG; EE ID: "This is Athens" (333 1/21 Franzis-CT)

#### HUNGARY

6000 0306 R. Budapest; EE Nx cmty QRM de VOA (423 1/29 Worrel-ND) (Johnson-FI)(Piszczek-NY)(Wampler-VA)(Curtis-TN)(Cereghin-MD) 6105 0300 R. Budapest; EE Nx //6000, 9585 (422 2/3 Zilmer-WI)

Well, there's not enough room to begin Italy on this page. Contrary to the previous agreement between Tim and I, I was again asked to do the column. Luckily, I have received all of your reports.....ed

ITALY		
6100 9575	0111 0115	RAI; EE Italian mx ID 0120* (343 1/17 Snyder-NY)(Hrivnak-IL) RAI; EE Cmty on the Pope/civil rights (333 1/16 Johnson-FL)
15385	1830	(Pyne-MD)(Cereghin-MD)(Pimblett-ALBERTA)(Yajko-PA) RAI; Italian IS ID TC om vocal mx (332 1/28 Smith-FL)(1/25
17755	1830	Maghakian-CA) RAI; Italian IS ID pgm to Canada nx (222 1/6 Smith-FL)
LUXEMB	OURG	
6090	0036	R. Luxembourg; EE Pop mx w/om DJ ID's ads (342 1/19 Morrison-NC)(Smith-CA)(Mayer-CA)(Howard-CA)(Martin-RI) +5
MALTA		
9565 15105	0130 2308	DW; EE Nx "Current Affairs Magazine" (344 1/27 Johnson-FL) DW; SS Nx to S. Amer. (222 1/18 Brookwell-CA)
MONACO		
7105 9610	0723 0705	TWR; EE IS s/on pgm on Family Unity (444 1/10 Maghakian-CA) TWR; EE Test tx freq. given ID's mx (332 1/3 Byron-NY)
NETHER	LANDS	
11720 17695	0715 1828	R. Nederland; EE Nx to West Africa (444 $1/18$ Brookwell-CA) R. Nederland; EE Freq. ancmt to Africa (1/13 Hauser-TN)
NORWAY		
9590	2220	R. Norway; Norw. om tlk mx nx ID in EE/Norw. anthem (343 1/11 Smith-FL)(Maghakian-CA)(Johnson-FL)
9605 9645 11870	1430* 0545 2200	R. Norway; EE Freq. ancmts (254 1/14 Snyder-NY) R. Norway; EE/Norw. comics (??) and mx (233 1/23 Witte-CA) R. Norway; EE "Norway This Week" //9590, 15175 (433 1/28 Zilmer-WI)(Piszczek-NY)
11895 17840 21730	1658 1430 1605	R. Norway; Norw. IS EE ID s/on by om nx (343 1/29 Donly-SC) R. Norway; EE Pgm on books QTH IS s/off (433 2/4 Cereghin-MD) R. Norway; EE Nx ID "Cultural Comments" (444 2/4 Famularo-NJ) (Smith-FL)(Yajko-PA)
POLAND		
6095	0317	Polskie Radio; EE Classical mx requests (333 1/13 Yajko-PA)
7270	0200	(Johnson-FL) Polskie Radio; EE Wld nx om vocal mx (423 1/15 Martin-RI)
15120	0305	(Yajko-PA) Polskie Radio; EE Tlk on SALT agreement mx nx (333 2/6 Snowden-CA)(Skora-ONT)(Curtis-TN)(Forbes-TX)(Lindsey-NJ)
PORTUG	AL	
6025 9740 11935	0300 0801 *0500	R. Portugal; EE Wld nx rept. (444 1/1 Vollrath-MO)(Snyder-NY) R. Portugal; PP NA om tlk lite folk mx (433 1/21 Maghakian) R. Portugal; EE Y1 nx ID @ 0510 "Summary of Week's Events"
17880	1805	(333 1/29 Jose-MO)(Lattemann-WA)(Johnson-FL)(Carter-LA) R. Portugal; EE ID nx mx (333 1/2 Skora-ONT)(Smith-FL)
ROMANI	<u>A</u>	
5990	0206	R. Bucharest; EE ID mx tlk abt. the International Children's
6155 9570	0130 0130	Year (433 1/9 Skora-ONT)(Sklarson-SASK)(Worrel-ND)(Byron-NY) R. Bucharest; EE Nx cmt (322 w/Austria ORM 2/3 Zilmer-WI) R. Bucharest; EE Om/yl cmty on National and Industrial
9690 11775 15250	1940 1420 0650	R. Bucharest; EE Om/yl cmty on National and Industrial Independence (433 1/27 Johnson-FL)(Harms-UT) R. Bucharest; EE "Sunday Studio" (333 1/14 Yajko-PA) R. Bucharest; AA? Mx yl ID IS 1425* (433 1/12 Hrivnak-IL) R. Bucharest; EE Nx tlk on Atherton's mission to the Mideast (222 1/19 Kaufman-NY)
15335	0659	R. Bucharest; EE ID sked om tlk on Revolution freqs. QTH 0711* (443 2/10 Mayer-CA)

## SPAIN

9360 9630	2300 0605	SFR; SS ID freq./time nx mx (343 1/11 Smith-FL) SFR; EE DX pgm mx DX tips (444 1/29 Woltman-WI)(Vollrath-MO)
11755 11880	2320 0149	<pre>(Pettit-IA)(Wampler-VA)(Hook-FL)(Davidonis-MA)(Mappin-WA) SFR; SS Tlk w/many ID's (544 1/21 Miller-CA) SFR; EE Tlk of a DX Competition sunspots (433 1/15 Mayer-CA) (Shridharani-NY)(Sklarson-SASK)(Oakley-CA)(Stickle-NY) (Johnson-FL)(Skora-ONT)(Wampler-VA)(Bryan-WA)(Curtis-TN) +4</pre>
SWEDEN		
9690	2303	R. Sweden; EE Tlk abt. current wx conditions in Sweden (444
9695	0230	1/5 Earhart-FA) R. Sweden; EE IS ID's nx "Panorama" (333 1/27 Johnson-FL)
11705	2300	(Vollrath-MO)(Mayer-CA) R. Sweden; EE Nordic nx "Panorama" "Sweden Calling DX'ers" (333 12/19 Fisher-MA)(Pyne-MD)(Koelble-OH)(Hodsdon-MN)
11905	*00 30	(Piszczek-NY)(Curtis-TN)(Pimblett-ALBERTA)(Bryan-WA) +3 R. Sweden; EE ID nx "Panorama" (352 1/18 Snyder-NY)(0130*
15240 21555	<b>*1</b> 600 1300	Brookwell-CA)(Sklarson-SASK)(Hrivnak-II) R. Sweden; EE Nx "Panorama" DX pgm (444 2/6 Kemp-Blair-CA) R. Sweden; Swedish home service to Swedes overseas nx
21615	1410	reports (343 1/16 Pompe-BELGIUM) R. Sweden; EE Nx cmty tlk of first census taken in Afghan- istan (433 1/24 Dilk-NJ)
21690	1245	R. Sweden; EE Interview (343 2/1 Yajko-PA)
SWITZE	RLAND	
3985	0654	SRI; Swiss/EE Swiss country mx ID freg. TC nx (444 1/20 Smith-FL)(Donly-SC)/Pettit-IA)
6045 6135	0427 *0145	SRI; EE IS w/bells 0430 s/on (444 1/15 Mappin-WA) SRI; EE "Swiss Shortwave Merry-Go-Round" (333 1/27 Franzis)
6165	0715	(Hodsdon-WN) SRl; EE/Italian tlk of fishing listener's letters mx (353 1/20 Smith-FI)
7210	0615	RCBS; EE Interview w/a correspondent from Radio Zambia (332 1/22 Harms-UT)
9535 9560 9660 9725	1845* 0658 0208 *0430	SRI; EE DX nx mx into GG (343 1/13 Yajko-PA)(Hoffman-PA) SRI; EE IS sked s/on nx to India (333 1/21 Maghakian-CA) SRI; EE Tlk abt. skiing in Switzerland (333 1/13 Yajko-PA) SRI; EE IS ID "Dateline" nx tlk abt. Iran (443 2/10 Dubee-CA)
11715	0145	(Sklarson-SASK)(Curtis-TN)(Coleman-MA)(Fraser-MA)(Eaton-WI) SRI; EE Tlk on the experiment concerning a small submarine in Swiss lakes (???? ed) (444 1/13 Byron-NY)
15305	0657	"Dateline" w/nx cmt on Vietnam (333 2/5 Mayer-CA)(Lorz-NY)
17830 21545 21570	1754 1315 1237	SRI; AA Mx ID by om IS 1800* (333 1/13 Thompson-CA) SRI; EE Nx "Dateline" to N. Amer. in USB (433 2/3 Zilmer-WI) SRI; EE "Dateline" ID into GG @ 1245 (554 2/6 Famularo-NJ) (Earhart-PA)(Cereghin-MD)(Mayer-CA)(Woltman-WI)(Shridharani)
UNITED	KINGDOM	
3970	0410	BBC; EE Tlk abt. U.S. attempt to obtain peace between Egypt/Israel (443 1/18 Brodsky-NY)
5975	0445	BBC: EE "Financial Matters" pgm (555 1/16 Johnson-FL)(2/10 Smith-CA)
6040 7150 7200 9410	0647 0650 0610 2301	VOA; EE "Breakfast Show" 0700* (222 1/7 Brookwell-CA) BBC; EE 0m tlk classical records (242 2/5 Smith-CA) VOA; EE "Breakfast Show" (332 1/27 Harms-UT) BBC; EE Nx on Iran tlk of Turkish assistance (444 1/11 Smith-FL)(Mayer-CA)
15070	1620	BBC; EE "Saturday Special" w/cmty on soccer rugby (444 1/20 Pimblett-ALBERTA)
18080	1555	BBC; Urdu tlk by om (444 1/20 Yajko-PA)
21550 21710	1710 1430	BBC; EE Tlk abt. various events in Africa (444 1/19 Dubee-CA) BBC; EE "Lines From My Grandfather's Forehead" (comedy pgm) "Radio Newsreel" mx (454 1/7 Fraser-MA)(Oakley-CA)

Again I'm left w/space at the bottom! USSR follows on the next page....

## UNION OF SOVIET SOCIALIST REPUBLICS

RADIO 4957		RR; Sit-up exercises local ID IS Moscow NA (333 1/26 Young-CA)
RADIO 7215	KIEV *0300	EE; ID nx cmty "Ukrainian Panorama" (544 1/17 Skora-ONT) (Yajko-PA)(Johnson-FL)(Fraser-MA)(Stone-ONT)
7320	0310	EE; ID "Ukrainian Panorama" w/tlk on children (444 1/20 Famularo-NJ)
15240 17870	0030 0052	EE; Nx by om Ukrainian mx (433 1/26 Dilk-NJ) EE; Letters from listener's mx (344 1/24 Yajko-PA)(Vollrath)
RADIO 5940	MOSCOW 2300	EE; Nx cmty description of Russian winter "Culture & the Arts" (454 1/2 Fraser-MA)(Sklarson-SASK)(Piszczek-NY) +2
7115 7190 7205	2215 0000 2340	EE; "Newsreel" mx wld nx ID (333 1/10 Smith-FL) EE; ID nx cmty "Moscow Mailbag" (444 1/8 Skora-ONT) EE; Read answer to my letter on 1980 Olympics! (3rd time) (454 2/5 Mellinger-NJ)(Curtis-TN) You're popular Craig! ed
7440 9490 15435 15520 17820	0038 2140 0556 0635 0030	EE; Tlk abt. restoration of an old church (433 1/13 Yajko-PA) EE; DX pgm mx by om (555 1/13 Hrivnak-IL)(Hodsdon-MN) RR; Long tlk by yl (353 2/11 Smith-CA) EE; Om w/folk mx jazz @ 0645 (555 2/10 Thompson-CA) EE; Nx folk mx (343 2/2 Zilmer-WI)
RADIO 6205 11720	STATION 0000 1311	PEACE AND PROGRESS RR; Western pop/country mx (343 1/21 Fraser-MA) EE; Tlk of the American Marines/nuclear weapons (222 1/31 Smith-FL)
15470	1340	EE; ID tlk on Russian History by om (444 1/20 Pyne-MD)
RADIO 9540	TASHKEN 1215	T EE; "Panorama in Soviet Uzbekistan" (353 1/21 Fraser-MA) (Kemp-Blair-CA)
VATICA	N CITY S	TATE

6015	0115	Vatican Radio; FF IS message from Pope (323 1/27 Johnson-FL)
0/07	*****	(Yajko-PA) Vatican Radio; EE IS tlk on Pope FF @ 0115 (434 1/18 Dubee-CA)
9005	*0100	(Earhart-PA)(Snyder-NY)(Johnson-FL)(Pimblett-ALBERTA)
11845	*0100	Vatican Radio; EE Y1 ID freq. "Blueprint For Sanctity" (555
11019	0100	1/21 Hrivnak-IL)(Curtis-TN)
21485	1210	Vatican Radio; EE Tlk abt. involv. of the Catholic Church in certain world affairs (353 1/8 Earhart-PA)

## YUGOSLAVIA

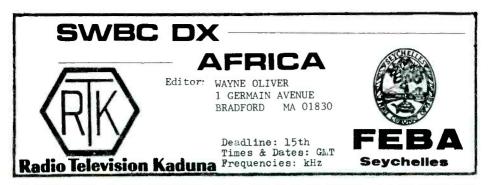
9620 \*2200 R. Yugoslavia; EE IS ID political tlk (423 1/24 Famularo-NJ) (Skora-ONT)(Smith-FL) 15240 1535 R. Yugoslavia; EE Yl w/nx folk mx 1555\* (433 1/24 Kemp-Blair)

The following has been taken from the BBCMS. It may not be reproduced without permission from the BBC....

ROMANIA: Radio Bucharest in English --

0130-0230		9690, 9570, 6155, 5990	to North America
0400-0430	All the above		to North America
0530-0600	15365, 11830,	9685	to Africa
0645-0715	17805, 15335,	15255, 11940	to the Pacific
1200-1230	17830, 15345		to Asia
1300-1330	15250, 11940,	9690	to Europe
1500-1530	17805, 15250,	11940	to Asia
1730-1800	15365, 11790,	9685	to Africa
1930-2030	9690, 7195		to Europe
2100-2130	7195, 5900		to Europe

POLAND: Polskie Radio's sked to North America from 0200-0400 includes the following frequencies-- 15120, 11815, 9525, 6135, and 6095. Program 13 language is Polish/English.... Be seein' you in Station Skeds in 30  $O^{\mu\nu}$ 



Another month of 75+ reporters, including 8 first-timers. I have still not heard anything about Gabon's new transmitters, no reports this month, does anybody know what's going on??? A reminder all times are GMT, pgms are in EE unless otherwise indicated.....

AI	N	G	0	LA

3375	0515	Radio Nacional: PP political tlks, light mx, ID at 0530 as
		"Radio Nacional" (222 1/24 Cucura-FA)
9535	1725	RN: EE tlks, mx barely audible $(222 \ 2/9 \ Miller-CA)$
7001		RN: Checking out report from Aaron Hywarren, FF polt tlks
		hrd 0455 on 1/4. 0500 mentioned provincia do Bie, afro mx,
		//9535 and 11955. Question is, from what city emanates this
		freq??? Jerry Berg says Lobito(Hauser-TN) Out-of-orderwlo

## ASCENSION ISLAND

7105	0659*	BBC-Atlantic Relay: FF ID, s/off (343 2/5 T. Smith-CA)
11820	*1755	BBC:S/on, OM w/QTH ID into World Service nx (443 1/14 Naylor)
		(353 2/5 1800 EE Thompson-NM)
15105	1655	BBC: Cmmts on Iran, TP,TC, World nx, (454 1/23 Thompson-NM)
15260	2315	BBC: "World Radio Club" (433 1/7 Johnson-FL)
15400	0600	BBC: Nx to Africa (322 1/16 Johnson-FL)(343 1/5 0616 Smith-FL)
BENIN		
4870t	0620	La Voix de la Rev:FF tlks, afro mx, no ID hrd (242 1/30

4870t 0620 La Voix de la Rev:FF tiks, airo mx, no 1D nrd (242 Thompson-NM)

## BOTSWANA

4845	0352	Radio Botswana: IS, cowbells and 'moos', ID in EE & verns
		best ever heard here (343 1/25 Lobdell-MA)(343 2/4 *0355 EE
		McDonald-HI)

## CAMEROON

4850	0451	Radio Yaounde: FF tlks, afro disco mx, het w/SRS (323 1/25
		Blaize-LA)(333 1/18 0503 FF/EE Howard-CA)(343 1/14 2202 FF/EE
		Yajko-PA)(242 2/13 2215 FF/EE Oliver-MA)
5010	0507	Radio Garoua: Afro chants, nx began in EE, then FF at 0518
-		(443 1/13 Snyder-NY)(323 1/14 0601 Getzel-NY)(333 1/17 0609
		EE/FF/vern Howard-CA)(343 1/15 0509 Mayer-CA)(343 1/23 0616
		Donly-SC)

#### CENTRAL AFRICAN EMPIRE 5038 2240 La Voix

5038 2240 La Voix de la C.A.E.: FF anns, ID, MOR mx (253 1/17 Moore-PA)

CHAD

4904	0510	RNT: FF	'tlks	by OM	(333	1/30	Nikolich-IL)	any	IDw10
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EGYPT

9475	0325	Radio Cairo: Nx, pgm details, 0330* (433 1/31 Brodsky-NY) (444 1/17 0205 Coleman-MA)(333 1/26 0220 Stone-ONTARIO)
		(444 1/8 0200 EE Hrivnak-IL)(322 1/19 0304 EE Smith-FL)
		(444 1/14 0305 Yajko-PA) 444 2/8 0213 Lattemann-WA) (444
		2/9 0205 Forbes-TX)(544 1/19 0234 Mappin-WA)
9805	2215	RC: News and Music (454 1/10 Proom-GREAT BRITAIN)
11630	1910	RC: EE news and Arabic mx (333 1/13 Yajko-FA)
12050	0200	RC: EE to NA (Koelble-OH)(Skora)(Rzepka)(Miller)(Thompson)
1 521 0	1335	RC: AA tlks, chants, some western mx (322 1/14 Frath-FL)
17670	1538	RC: AA tlks, mx (Earhart-PA) Tom Smith-FL)

DEMUTODIA		
<u>ETHIOPIA</u> 9615 1	1535	VORE: Classical mx, YL annr w/EE pgms (222 1/7 Martin-RI)
EQUATORIA 6250 C	AL GUI 0506	<u>NEA</u> Radio Malabo: Long NA into SS ID, severe fading (222 2/4 Getzel-NY)
<u>GABON</u> 4777 2	2310	RTVG: FF tlk by OM, 2321-ID (343 2/1 Donly-SC)(343 2/1 2217 FF Famularo-NY)(333 1/13 2156 FF Yajko-PA)(342+ 1/19 2120 FF Peck-NY)(333 1/25 0524 Cucura-PA)(323 1/17 0500 FF Blaize-LA)
3366 2	2250 2222 2245	GBC-Ejura: Vern tlks by OM, 2300-ID (343 2/5 Donly-SC)(222 2/17 2230 EE Fisher-MA) GBC: Church service, sermon (343 1/14 Yajko-PA)(354 1/28 2240 Moore-PA) GBC: choral group singing, vern OM tlks (333 1/8 Blaize-LA) (322 2/7 0700 EE Zink-CA)
<u>GUINEA</u> 15310 2	2256	RN: FF ID at 2320, afro mx, off at 2358* (343 1/14 Snyder-NY) (443 1/14 2201 Mayer-CA)(554 2/4 0815 FF Newell-B.C.)(544 (1/28 1810 FF Thompson-CA)
7215 2	AST 0730 2235 2255	RTVI: FF tlks, afro drum mx, no ID but positive, //11920 (222 1/28 Blaize-LA)(333 1/29 0745 FF Oliver-MA) RTVI: FF nx, cmmty (222 1/26 Johnson-FL)(433 1/10 0710 FF //11920 Maghakian-CA) Mikejust missed a good NYC snowstorm RTVI: FF OM tlks, string mx (343 1/25 Earhart-PA)(222 1/16 2000 EE Hodson-MN)(444 1/29 2300 FF George-TX)(222 1/28 1959 FF Smith-FL)(523 1/25 0600 FF Newell-EC)(454 1/29 2145 FF Thompson-NM)(534 2/2 2355 FF Thompson-CA)(444 1/28 *0600 FF Donly-SC)
	0635 1800	VOK: Swahili tlks, afro mx (353 1/28 Thompson-CA) likelywlo VOK: Swahili news and weather //4915 (P.PBelguim) full name?
$\frac{\text{LESOTHO}}{4800}$ (	0405	Radio Lesotho: NA, vern OM tlks, EE ad's and Birthday wishes (433 1/23 Oakley-CA)
	0617 0505	ELWA: ID, "Doorway to Hall" (252 1/20 Snyder-NY)(243 1/20 2212 Skora-ONTARIO)(232 2/3 2215 Fisher-MA)(343 1/14 2155 Yajko-PA) (252 1/28 2230 Moore-PA)(343 1/30 0553 Donly-SC) VOA: "Breakfast Show", nx (343 1/22 Chinakos-WA)(454 2/10
11835 0	0715	0613 T. Smith-CA) ELWA: "Bible Adventures" ID by OM (544 2/10 Thompson-CA)(444
11860 2	2030	1/31 2007 <u>AA</u> Donly-SC) ELWA: "Back to the BIBLE" (222 1/15 Hodson-MN)(444 2/6 2040 Maise-LA)
15445 2	0625 2125 2300*	ELWA: IS, s/on in EE, into vern (444 1/15 Vollrath-MO) VOA: Nx analysis, orch. mx (454 1/23 Thompson-NM) VOA: classical mx, ID, s/off (555 1/28 Tom Smith-FL)
<u>LIBYA</u> 5980 *0	0600	SPLAJEC: NA, AA ID, into Koran readings (444 2/8 Seymour-NC)
MADAGASCA 11730 2	AR 2111	Radio Nederland: "Stamp Corner" (454 2/3 Eaton-WI)(343 1/7 1840 Oakley-CA)(555 1/28 2115 Hrivnak-IL)(244 1/30 1842
11740 2	2045	Moore-PA)(333 2/12 *1927 FF T. Smith-CA) RN: News //11730 (444 1/31 McWherter-MD)(433 2/4 2110 Fiszczek-NY)(555 2/6 2050 Maise-LA)
17810 2	2100	RN: Tlk on Christianity and 3rd World (444 1/29 Thompson-NM)
	0305	MBC: EE/vern tlks, choral mx (222 1/13 Peck-NY) ID???wlo
<u>MALI</u> 4825 (	0616	RNM: FF tlks, ID, flute mx (322 1/25 Cucura-PA)

MAURITAL 4845		RNM: AA Chants, ID at 0725 (232 1/15 Kegel-MD)(433v 1/21 0745 t vern Peck-NY)
MAURITI 4850	US 1815	MBC: EE nx, program items QRM de Russian (222 1/16 F.P. BELGUIM)
NIGER 5020	0621	ORTN: FF tlks, ID, drum mx at 0624 (322 1/14 Getzel-NY)(131 1/19 0600 FF Nikolich-IL)(333 1/24 0612 FF Cucura-PA) (312 1/21 0600 FF Blaize-LA)
NIGERIA 4932	0453	Radio Bendel: EE comms, ID, chants (333 1/25 Cucura-PA) this is either FRC-Benin City or something new to mewlo
4990	2100	FRC-Lagos: Hawaiian mx pgm, ID into BBC pgm (333 1/29 Zavatsky-CT)
7255 11770	0640 0730	VON: OM Nx, cmmty on Railroads, ID (433 1/13 Thompson-CA) VON: Nx, cmmty (252 12/29 Proom-G.B.)(444 2/5 0704 Mayer-CA) (343 1/24 0546 //15120 Maghakian-CA)(333 1/28 1510 Hausa Miller-CA)(433 2/3 0730 EE Witte-CA)
<u>RHODESI</u> 3306 3396	A 0345 0400	RBC: vern tlks, EE ID, pop mx (322 1/24 Lobdell-MA) RBC: Nx about Iranian situation, mod. QSB (332 1/19 Mayer-CA) (222 2/12 0400 EE Trueblood-WI)(221 1/24 0400 Lobdell-MA)
RWANDA 21540 24640	1852 2010	DW-Kigali Relay: GG nx, cmmty $(253 1/11 \text{ Moore-PA})$ DW: IS, GG tlk. Must be 4 x 6160, where nothing was heard Listed as Kigali, believe first time I've heard a harmonic from this country. Coincidentally, there was some QRM from what must have been anoth harmonic $(1/14 \text{ Hauser-TN})$
<u>SENEGAL</u> 4890	0745	Radio Senegal: long FF tlks, Dakar mentions (222 1/28 Blaize LA)(333 1/20 0600 FF Cucura-PA)(333 1/13 0650 FF Kegel-MD) (443 1/17 0600 FF Peck-NY)(342 1/13 0625 FF Newell-BC) (323 1/14 2210 FF Yajko-PA)(253 1/18 0640 FF Moore-PA)
SEYCHEI		
11805 11860	*0315 1656	FEBA: ID after IS into vern (212 1/31 Nikolich-IL) FEBA: IS into vern tlks (333 1/21 Harms-UT)(444 1/12 *1700 AA Maghakian-CA)(444 1/12 1745 ??? Hrivnak-IL)(433 1/28*1650 AA Thompson-CA)
15405	0340	FEBA: muli-lang ID into AA (444 1/27 Johnson-FL)(333 1/23 0309 ??? Harms-UT)(454 1/21 0308 ??? Worrel-ND)(444 1/26 0305 ??? Zavatsky-CT)(322 2/5 0430 ?? Hrivnak-IL)(444 2/4 0307 Farsi Donly-SC)(222 1/19 0300-0445* Brookwell-CA)
<u>SIERRA</u> 5980		SLBS: Vern tlks, OM discussion (232 2/10 Smith-CA)(333 2/9 0700 McDonald-HI)(333 1/28 2200 Koelble-OH)
SOUTH /	FRICA	
Not mar Cf last	ny chané t months	ges from last month so will include them in Drumbeat at end s issue for freqs/times
<u>SWAZIL</u> <u>3223</u> 4980 6070 9730	0205 0403 *0400 *0358	Radio SR: Pop mx, local TC's, soap ads, etc (333 1/23 Howard) Swazi Comm. Radio: ID, ads by OM, rock mx (322 2/6 Lobdell) TWR: IS, s/on in ??? lang (333 2/5 McDonald-HI) TWR: IS s/on in ??? (444 1/11 Maghakian-CA)
TANZAN 4785 5050	<u>IA</u> 0400 1750	RT: ??? lang w/ world nx (333 2/7 McDonald-HI) any ID???wlo RT: Afro mx, EE ID into LL (343 2/4 McDonald-HI)
<u>TOGO</u> <u>3222</u> 5047 <b>22</b>	2215 2215	RTT-Lama-Kara: slow vocals, FF tlks, high static level (232 1/14 Yajko-PA) RTT: FF tlks, many ID's (332 1/22 Earhart-PA) +6 others

<u>TUNISIA</u> 15225m 0735	RTVT: Tunisian folk mx, AA tlks, ID (343 1/26 Peck-NY)
UGANDA	UBC: EE s/on to NA (444 1/18 Vollrath-MO)(Zavatsky-CT)(Martin-
15325 *0300	RI)(Mellinger-NJ)(Lattemann-WA)(Mappin-WA)(Smith-FL)(Cady-IL)
UPPER VOLTA	RTVV: FF ID, short nx, afro mx (222 1/25 Cucura-PA)(332+ 1/8
4815 0559	???FF Peck-NY)
UNIDENTIFIED 5030 1310	AA chants, prayers (333 1/11 Blaize-LA) ideas anyone????
ZAIRE 15345 1940	La Voix du Zaire: FF pop mx (Martin-RI) NF??? ID heard?? wlo
ZAMBIA	ZBS: Vern tlks, pop mx mentions of Zambia, bad het de Colombia
4910 0430	(312 1/11 Blaize-LA)

## African Drumbeat

EGYPT's ENGLISH 1215-1330	Schedule: 17920	To South and Southeast Asi	ia
1630-1830	15255	To Africa "Voice of Africa	a"
2030-2200	1 537 5	H H H H	
2215-2345	9805	To Europe 72'S	
0200-0330	9475/6230	To The Americas	yne
December 201	~	W	1

From the February Gram comes these few items:

Botswana-4845kHz- noted at 0320 w/pop mx (352 1/5 Silva-Brazil)

Sao Tome-4807kHz- at 0559 ID (554 On 1/9 Silva-Brazil)

Thats it for another month from here....not too much more to say....By the way I almost forgot, if anyone has any plans for a good 90/120 mb antenna please forward them to me along with any comments/hints on construction... It would be greatly appreciated...Looks like this part of New England lucked out this winter with only 18 inches of snow, not bad...makes up for last years blizzard.....73's and BCNU in 30 ASIA-DEEANIA

BOB BODELL - EDITOR 5230 S.E. 48th AVE PORTLAND, OR 97206 (503) 771 8804

DEADLINE: 15th of the month



## FREQ TIME STATION

## RADIO AFGHANISTAN

AFGHANISTAN RA: Pushtu OM/YL tlk, local mx (Brookwell CA 1/21)(Maghakian CA) RA: EE nx, ID (Harms UT 1/30 232)(Nikolich IL) 0203 4775 1420 Radio Bangladesh. BANGLADESH RB: EE "From Us to You", request pgm, pop mx, ID (Mougenot FRANCE) 21685 1245 BRUNEI RTVBrunei: IS, gong, Malay tlk, wailing chants (Hensley TX 1/16 353) 7215t 1358 BURMA BBS: indigenous lang tlk, vocals, stringed mx (Cucura PA)(Nikolich IL 1140 4725 CHINA 2340 Fujian 1: CC YL tlk, CC mx (Cucura PA 1/4 222) 232) 1116 Taiwan Svce: CC folk mx, YL singing, orch., piano, tlk (Peck NY 1/18 Fujian Front Station 2: CC mx, OM/YL tlk (Cucura PA 1/4 222) 3360 1045 3400 1129 FFS 1: CC YL singing, possible play (Oakley CA 1/17 444) 3640 1445 Xilinhot: CC inst. mx, OM ancr, tlk (Naylor CA 1/15 443) Beljing 2: CC w/ singing (Nikolich IL 1/22 343) Qinghai: CC YL tlk, under RR, opera, 1300 TC (Naylor CA 1/16 222) R. Peking: Japanese svce w/ inst. mx (Nikolich IL 1/22 333) 1312 4010 4850 1312 1250 4940 4960 1310 Beijing 2: CC YL tlk, strong het. (Earhart PA 1/22 332) Harbin: CC OM tlk, mx, anthem?, ID, 1430\* (Oakley CA 1/28 423) FFS 2: CC YL tlk, mx interlude, ID, OM tlk (Naylor CA 1/14 343) Korean Svce: IS, "Yeogineum Peking..." ID. // 8565 (Harms UT 1/20) RP: RR s/on OM/YL nx, shifts to 6563.6, // 6568.1 (Naylor CA 1/22) RP: CC tlk by YL (Harms UT 1/22 342) FFS 2: CC mx, OM tlk, then s/off (Earhart FA 1/23 343+) Guiyang, Guizhou: CC mx, YL/OM speech (Dawson CA 1/27 354) Beijing 2: CC mx for dance class, // 770 (Brookwell CA 1/21 333) RP: EE YL tlk. ID, freqs. to ECNA. off. then \*1300 (Navlor CA) Beijing 2: CC YL tlk, strong het. (Earhart PA 1/22 332) 5163t 1151 1410 5950 6000 1447 6430 0959 6558.4v1300 6825 0914 7025t 1200\* 7275 0848 0841 7380 RP: EE YL tlk, ID, freqs, to ECNA, off, then \*1300 (Naylor CA) RP: CC OM tlk (Dawson CA 1/27 354) 7420 1247 7490 0900 RP?: CC tlk by YL, mentions Vietnam (Radcliff IL 1/31 433) 7685 2340 Beijing: CC ID, tlk (Harms UT 1/27 443) RP: EE YL w/ catry (Dawson CA 1/21 353) RP: EE lang lesson (Cereghin MO 1/15 333) RP: EE nx, "China In Construction" (Piszczek NY 1/16 454)++++++++ 7760nf 0857 9460 0900 9560 1230 9820 1206 rier VA) 11495 0643 RP: CC mx (Dawson CA 2/1 222) RP (likely): Viet tlk on SEA, heavy pulsating sounds, no ID (Car-RP: Cantonese tlk by YL/OM, CC mx (Maghakian CA 1/12 343) RP: SS pgm to LAm, tlk, CC mx, // 11630 (Brookwell CA)(Hrivnak IL) 11595 1220 11610 0055 11650 0130 RP: EE 2 YLs w/ interview (Beeman OH) 11680 0920 OM/YL tlk, garbled w/ QRM (Naylor CA 1/14 322) 11720 1622 RP: CC RP: CC YL tlk, mentions Mao, slight jamming (Brodsky NY 1/18 433) 11945 0402 RP: SS OM ID, mx, cmtry (Hrivnak IL 1/26 545) RP: CC YL w/ tlk (Dawson CA 1/28 353) RP: CC w/ local mx, OM tlk, 1355\* (Prath FL 1/7 443) 11980 0145 12010 0814 15045 1350 RP: EE nx of Teng in US, cmtry on relations w/ US, CC mx (Leeman RI 1/30)(Shridharani NY)(Curtis TN)(Cereghin MO)(Hook FL)(Smith FL) 1 5060 0214 RP: CC cmtry on internal/external policy, ID (Johnson FL 1/26) RP: CC OM/YL tlk, mentions Teng & Carter (Brodsky NY 1/31 322) 15080 0025 15185 1315 RP: EE tlk on new text of "Let's Learn Chinese" (Smith FL 1/4) 15210 0100

CHINA (conti	
15270 1544 1200 15300 0100 15480 0200	V. of Demo, Kampuchea via Peking: Cambodian YL vocals (Bodell 2/10) RP: EE YL nx, cmtry, // 9820 (w/ slight delay) (Zilmer WI 1/29 343) RP: SS CM w/ ID, YL tlk (Naylor CA 1/13 333) RP: IS, s/on, CC? tlk by OM/YL (Maghakian CA 1/11 353)
15520 0115 15600 0155 15788m 0450 17680 0000	RP: EE cmtry, nx (Forbes TX)(Zavatsky CT)(Vollrath MO) plus 17 RP: EE cmtry on Dr. Sun Yat Sen (Shridharani NY)(Koelble OH)+++++ VOMR: EE nx, rev. tlk, mx (Ledford NJ)(Malay @ 1215 Famularo NJ) PP: EE w/ CC class. mx, phonetics lesson (Witte CA)(Schroeder WI)+
CYPRUS	SC)
7230 2245 11740 0400 15420 0531 17885 1230	CBC: Greek nx, mx, on Fri., Sat., Su. (Pompe BELGIUM)(// 6155 Donly BBC Limassol: AA w/ tlk, Big Ben IS (Brookwell CA 1/25 222) BBC Limassol: EE w/ OM playing Purcell mx (Smith CA 2/11 353) BBC Limassol: EE "Bakers Half Dozen", mx (Zilmer WI 2/4 333)
INDIA           3235         1225           4820         1532           4850t         1307           4860t         1551           9560a         1545           9705         1115           11620         2200           11855         1135           15190         1013           15205         1030           15275         1230           17730         0403	AIR Gauhati: u/lang OM tlk, 1330 ID, sitar mx (Howell CA 1/26 332) AIR Calcutta: YL w/ Indian vocals (Bodell/Williams OR 2/17 232) AIR Kohima?: subcont. mx, tlk, no Peking present (Nikolich IL 2/5) AIR Delhi: EE cmtry, then carrier only, back on $@$ 1600 (B/W OR 2/17) AIR: EE cmtry by YL, ID, Indian mx, sudden off $\vartheta$ 1600 (Worrel ND) AIR: Gujerathi, then 1125-35 Hindi, 1135-40 EE nx (Shridharani NY) AIR: EE nx, tlk on forestry (Pasternak ONT)(Rzepka WI)plus 15 more! AIR: EE State & Development nx, 1140*, // 9705, 11725 (Zilmer WI) AIR: EE elections/cricket (Norcross in WEStPACific in a submarine!) AIR: EE State & Development nx, // 11620 (Zilmer WI 1/28 / CA 2/8) AIR: Farsi? w/ local mx, 0415*, carrier on, 0428 IS, AA s/on (Barry
INDONESIA	ALL INDIA RADIO JAPAN) PPI Samaninda, Inda my ID "Intich P. Panublik I. Samaninda" (Komai
3295 1036 3325 1348 3395 1048 4719 1050 4753 *1200 4875 1322 4875 1323 4932t 1310 5046 1305 5987 0909 11789 1434	RRI Samarinda: Indo mx, ID "Inilah R. Republik I. Samarinda" (Komai RRI Jayapura: Indo w/ chant-like mx, OM tlk (Howell CA 1/26 433) RRI Tanjungkarang: Indo tlk pgrm, mx, nx (Komai JAFAN 1/20 232) RRI Ujungpandang: Indo pp mx, tlk, IS, 1100 nx (Ledford NJ 2/12) RRI Ujungpandang: Indo s/on w/ "Love Ambon" (Kegel MD)(Cucura PA) RRI Ambon: OM Indo tlk, // 4753, 4719 (Nikolich IL 2/7 232) RRI Sorong: Indo tlk, nx?, quick fade out (Blaize LA 1/9 322) RRI Yogyakarta: Indo w/ RRI nx, // 4719, 4753 (Blaize LA 1/17 222) RRI Menado: Indo mx, OM/YL tlk (Dawson CA 2/7 233) VOI: EE YL w/ reception rpts, promised QSL, local mx (Orloff NJ)++
IRAN	
9022 2005 15084 1715	<u>Radio-Televishun Irani</u> : EE ID, mx (Boyd FRG)(Parsi @ 0440 Smith PL) <u>RTVI</u> : Farsi w/ rebel forces taken over radio, voices in background "dead air", jiggling @ microphones, mentions of Khomeini, crowds chanting, played Anglican chamber mx, march mx, lite mx, <u>RTVI</u> IDs, this on 2/11, 2/12 had similar pgrm (Famularo NJ 444)(Seymour NC)+ DTVL: Barti ( Death M)
15260 0724 IRAQ	RTVI: Farsi w/ Persian mx, strings, oboes, santur,// 15084 (Peck NX)
9745 2130 11935 0300 ISRAEL	RBI: EE w/ Iraqi mx, ID, nx, 2220* (Mougenot FRANCE)(Mellinger NJ)+ RBI: EE IS, anthem, 0302 s/on, nx, cmtry,features (Donly SC 1/23) ALB)
7412         2240           9009         2015           9435         2230           9445         0450           9655         2234           9780         2100           9815         2000           9833         0500           11635         2230           11655         2230           11840         0440           11960         2020           12077         0455           15415         0500           17630         0500           17685         1750           17815         0500           17875         0500           21495         1217	<ul> <li>IBA: EE w/ mailbag, DX pgm (Vollrath MO 1/21)(Woltman WI)(Pimblett</li> <li>IBA: EE w/ "Israel Pop Sounds", freqs, IS, ID (Hodsdon MN 1/16 222)</li> <li>IBA: EE w/ "This Week" pgm (Piszczek NY 1/27)(Shroeder WI)</li> <li>IBA: Hebrew HS (Reshet B), tlk, nx, mx, cmtry (Zilmer WI 2/4 433)</li> <li>IBA: EE w/ "This Week" w/ OM (Worrel ND 1/20 555)</li> <li>IBA: FF w/ ID, IS, 2100 into u/lang (Cereghin MD 2/6 444)</li> <li>IBA: FF tlk on Hebrew history, mx (Dekeyser CA)(Bryan WA)+++++++</li> <li>IBA: EE ID, nx, wx, press review (Lattemann WA)(Larson SASK)++++++</li> <li>IBA: Hebrew OM vocals w/ chamber orch., ads (Peck NY)(Froom ENG)++</li> <li>IBA: EE nx, cmtry, mx (Dilk NJ)(Pasternak ONT)(Dekeyser CA)++++++</li> <li>IBA: EE w/ "Calling All Listeners" (Zilmer WI 2/4 332)</li> <li>IBA: EE nx, wx, sprts (Zilmer WI 2/4 232)</li> <li>IBA: EE nx, wx, sprts (Zilmer WI 2/4 443)</li> <li>IBA: Hebrew OM &amp; YL w/ rapid tlk, ID, nx, anthem (Smith FL 1/20)</li> <li>IBA: EE nx, wx, sports (Zilmer WI 2/4 342)</li> <li>IBA: EE nx, wx, Israel1 folk festival, // 25605 (Shridharani NY)</li> </ul>

T & 10 & 51	
JAPAN 3925 0900 NSB: EE W/ "Let's Learn JJ" (Lattemann WA 2/6 433) RADIO JAPAN CA)	
3925 0900 NSB: EE w/ "Let's Learn JJ" (Lattemann WA 2/6 433) (Allo of the CA) 6055 0810 NSB: JJ w/ play, laughter from audience (Dubee CA)(Miller CA)(Smith	
6055 0810 NSB: JJ w/ play, laughter from audience (Dubee CA)(Miller CA)(Smith 6155 0926 FEN: EE nx, cmtry (Harms UT 1/30 333)	
9505 1000 R. Japan: EE nx (Kaufman NY)(Lattemann WA)(Yajko PA)(Oakley CA)	
9525 1400 RJ: EE ID. CC pgm, QRM (Miller CA 1/26 544) ONT)	
9585 1301 RJ: EE nx, tlk on local elections (Pallen QUE)(Pimblett ALB)(Skora	
9595 1330 NSB: JJ w/ tlk by YL & OM, pop mx, ads, ID (Donly SC 1/26)(Peck NY)	
9760 1330 NSB: JJ tlk, ID (Harms UT 1/30 444)	
11815 1420 RJ EE OM tlk on trade (Schroeder WI $1/11$ )( $@$ 0215 Oakley CA)	
11840 2257 RJ: IS, Viet s/on, blocked, // 15300 w/ tlk, nx (Maghakian CA 1/12) 11960 1758 RJ: IS, German s/on, sked, nx by OM (Maghakian CA 1/24 222)	
15195 2205 RJ: EE w/ Asian nx (Radcliff IL)(Smith FL)(Johnson FL)(Hodsdon MN)	
15270 2348 RJI EE NX, "Current Topics" (Koelble OH)(Franzis CT)(Fraser MA)++++	
15310 *0100 RJ: EE s/on, into nx, // 17755, 17880 (Yajko PA)(Smith CA)(Famularo	)
17725 0155 RJ: EE cmtry, "Current Topics", cmtry (Valentine CA)(Oakley CA)	
17755 2311 RJ: EE tlk on Year of the Children, DX nx (Pimblett LAB)(Smith FL)	
17825 0007 RJ: EE w/ "Hello America", mx (Beeman OH)(Wampler VA)(Stone ONT)+++ 17880 0100 RJ: EE ID, nx, tlk on Khomeini return to Iran (Hrivnak IL)(Pimblett	
21640 0130 RJ: EE ID, freqs, nx, mx, Asian nx (Thompson NM)(Vollrath MO)++++++	+
JORDAN 9560 1730* HKBS: EE s/off, mx (Berezowski ALB 1/25)(Newell BC)(Mougenot FRANCE	: )
11920 0328 HKBS: AA s/on after pretty IS, ID, anomts, chants (Young CA 1/21)	.,
The Hashanila Development's O	
DEMOCRATIC PEOPLE'S REPUBLIC OF KOREA INC MASNEMILE BROADCASTING SERVICE 3030 1316 Wonsan: Korean OM/YL tlk (Howell CA 1/26 443)	
3840 1440 R. Pyongyang: EE mx, YL tlk on temples, ID (Oakley CA CA 1/31)	
4110a 1017 V. of Rev. Party for Reunification: KK ID, cmtry (Harms UT 1/20)	
6540 0903 RP: JJ ID. tlk (Harms UT 1/22 433)	
6575 2030 RP: EE translation of KK biography, ID, nx, cmtry (Boyd FRG 1/5)	
6770 1145 RP: SS tlk by OM, KK mx (Prath FL 1/7 333)	
9420 *0800 RP: IS, EE w/ ID, freqs, nx (Carrier VA 2/3)(Dawson CA)(Earhart PA) 9977 1200 RP: EE nx, cmtry, ID (Zavatsky CT)(Wampler VA)(Peters KY)(Pimblett)	
9977 1200 RP: EE nx, cmtry, ID (Zavatsky CT)(Wampler VA)(Peters KI)(Pimblett) 11532v 1120 RP: EE YL w/ cmtry (Nikolich IL)(Dawson CA)(Yajko PA)(Carrier VA)	
REPUBLIC OF KOREA	
	- 11
2510 1347 Taegu: KK OM tlk. mx (Howell CA 1/26 353)	- 8
2510 1347 Taegu: KK OM tlk, mx (Howell CA 1/26 353) 3985 1520 Hui-mang-e Me-ari (Echo of Hope): KK Dgm (Harms UT 1/20 242)	۲Y
2510 1347 Taegu: KK OM tlk, mx (Howell CA 1/26 353) 3985 1520 Hui-mang-e Me-ari (Echo of Hope): KK pgm (Harms UT 1/20 242) 5720 1600 R. Korea: EE nx, ID, report on reunification (Lattemann WA 1/26 333	3)
<ul> <li>2510 1347 Taegu: KK OM tlk, mx (Howell CA 1/26 353)</li> <li>3985 1520 Hui-mang-e Me-ari (Echo of Hope): KK pgm (Harms UT 1/20 242)</li> <li>5720 1600 R. Korea: EE nx, ID, report on reunification (Lattemann WA 1/26 333)</li> <li>6135 0900 KBS 3: KK ID, into nx (Harms UT 1/20 332)</li> <li>6348 0910 R. Echo of Hope: KK tlk, folk mx, Peking on 6345 (Harms UT 1/20 332)</li> </ul>	- 11
2510 1347 Taegu: KK OM tlk, mx (Howell CA 1/26 353) 3985 1520 Hui-mang-e Me-ari (Echo of Hope): KK pgm (Harms UT 1/20 242) 5720 1600 R. Korea: EE nx, ID, report on reunification (Lattemann WA 1/26 333 6135 0900 KBS 3: KK ID, into nx (Harms UT 1/20 332) 6348 0910 R. Echo of Hope: KK tlk, folk mx, Peking on 6345 (Harms UT 1/20 332 7225 #0800 RK; Indo? w/ IS, s/on, ID, freqs, nx (Dubee CA 1/26 433)	2)
2510 1347 Taegu: KK OM tlk, mx (Howell CA 1/26 353) 3985 1520 Hui-mang-e Me-ari (Echo of Hope): KK pgm (Harms UT 1/20 242) 5720 1600 R. Korea: EE nx, ID, report on reunification (Lattemann WA 1/26 333 6135 0900 KBS 3: KK ID, into nx (Harms UT 1/20 332) 6348 0910 R. Echo of Hope: KK tlk, folk mx, Peking on 6345 (Harms UT 1/20 332 7275 *0800 RK: Indo? w/ IS, s/on, ID, freqs, nx (Dubee CA 1/26 433) 7550 *2300 RK: ID,freq., nx, editorial (Wampler VA)(Vollrath MO)(Ledford NJ)++	2)
2510 1347 Taegu: KK OM tlk, mx (Howell CA 1/26 353) 3985 1520 Hui-mang-e Me-ari (Echo of Hope): KK pgm (Harms UT 1/20 242) 5720 1600 R. Korea: EE nx, ID, report on reunification (Lattemann WA 1/26 333 6135 0900 KBS 3: KK ID, into nx (Harms UT 1/20 332) 6348 0910 R. Echo of Hope: KK tlk, folk mx, Peking on 6345 (Harms UT 1/20 332 7275 *0800 RK: Indo? w/ IS, s/on, ID, freqs, nx (Dubee CA 1/26 433) 7550 *2300 RK: ID, freq., nx, editorial (Wampler VA)(Volrath MO)(Ledford NJ)++ 0525 0835 RK, EE nx in GOS, ORM (Dubee CA 2/4 333)	2)
<ul> <li>1347 Taegu: KK OM tlk, mx (Howell CA 1/26 353)</li> <li>3985 1520 Hul-mang-e Me-ari (Echo of Hope): KK pgm (Harms UT 1/20 242)</li> <li>5720 1600 R. Korea: EE nx, ID, report on reunification (Lattemann WA 1/26 333)</li> <li>6135 0900 KBS 3: KK ID, into nx (Harms UT 1/20 322)</li> <li>6348 0910 R. Echo of Hope: KK tlk, folk mx, Peking on 6345 (Harms UT 1/20 332)</li> <li>7275 *0800 RK: Indo? w/ IS, s/on, ID, freqs, nx (Dubee CA 1/26 433)</li> <li>7550 *2300 RK: ID,freq., nx, editorial (Wampler VA)(Vollrath MO)(Ledford NJ)++</li> <li>9525 0835 RK: EE nx in GOS, QRM (Dubee CA 2/4 333)</li> <li>6400 RK: Indo OM w/ s/on, ID, nx (Thompson CA 2/4)(Miller CA)(Dubbe CA)</li> </ul>	2) ++
<ul> <li>1347 Taegu: KK OM tlk, mx (Howell CA 1/26 353)</li> <li>1520 Hul-mang-e Me-ari (Echo of Hope): KK pgm (Harms UT 1/20 242)</li> <li>1600 R. Korea: EE nx, ID, report on reunification (Lattemann WA 1/26 333)</li> <li>6135 0900 KBS 3: KK ID, into nx (Harms UT 1/20 332)</li> <li>6348 0910 R. Echo of Hope: KK tlk, folk mx, Peking on 6345 (Harms UT 1/20 332)</li> <li>7275 *0800 RK: Indo? w/ IS, s/on, ID, freqs, nx (Dubee CA 1/26 433)</li> <li>7550 *2300 RK: ID,freq., nx, editorial (Wampler VA)(Vollrath MO)(Ledford NJ)++</li> <li>9525 0835 RK: EE nx in GOS, QRM (Dubee CA 2/4 33)</li> <li>9640 *0800 RK: Indo OM w/ s/on, ID, nx (Thompson CA 2/4)(Miller CA)(Dubbe CA)</li> <li>9720 1605 RK: EE tlk on indust. dev., ID (Dilk NJ)(Nikolich IL)(Snyder NY)+++</li> </ul>	2) ++
2510 1347 Taegu: KK OM tlk, mx (Howell CA 1/26 353) 3985 1520 Hui-mang-e Me-ari (Echo of Hope): KK pgm (Harms UT 1/20 242) 5720 1600 R. Korea: EE nx, ID, report on reunification (Lattemann WA 1/26 333 6348 0910 R. Echo of Hope: KK tlk, folk mx, Peking on 6345 (Harms UT 1/20 332 6348 0910 R. Echo of Hope: KK tlk, folk mx, Peking on 6345 (Harms UT 1/20 332 7275 *0800 RK: Indo? w/ IS, s/on, ID, freqs, nx (Dubee CA 1/26 433) 7550 *2300 RK: ID,freq., nx, editorial (Wampler VA)(Vollrath MO)(Ledford NJ)++ 9525 0835 RK: EE nx in GOS, QRM (Dubee CA 2/4 333) 9640 *0800 RK: Indo OM w/ s/on, ID, nx (Thompson CA 2/4)(Miller CA)(Dubbe CA) 9720 1605 RK: EE tlk on indust. dev., ID (Dilk NJ)(Nikolich IL)(Snyder NY)+++ 9870 1330 RK: EE nx, KK mx (Pallen QUE)(Thompson CA)(@ 0530 Barry CA)	2) ++
2510 1347 Taegu: KK OM tlk, mx (Howell CA 1/26 353) 3985 1520 Hui-mang-e Me-ari (Echo of Hope): KK pgm (Harms UT 1/20 242) 5720 1600 H. Korea: EE nx, ID, report on reunification (Lattemann WA 1/26 333 6135 0900 KBS 3: KK ID, into nx (Harms UT 1/20 332) 6348 0910 H. Echo of Hope: KK tlk, folk mx, Peking on 6345 (Harms UT 1/20 332 7255 *0800 RK: Indo? w/ IS, s/on, ID, freqs, nx (Dubee CA 1/26 433) 7550 *2300 RK: ID,freq., nx, editorial (Wampler VA)(Vollrath MO)(Ledford NJ)++ 525 0835 RK: EE nx in GOS, QRM (Dubee CA 2/4 333) 9640 *0800 RK: Indo OM w/ s/on, ID, nx (Thompson CA 2/4)(Miller CA)(Dubbe CA) 9720 1605 RK: EE tlk on indust. dev., ID (Dilk NJ)(Nikolich IL)(Snyder NY)+++ 9870 1330 RK: EE nx, KK mx (Pallen QUE)(Thompson CA)(@ 0530 Barry CA) KIIWAIT	2) ++
2510 1347 Taegu: KK OM tlk, mx (Howell CA 1/26 353) 3985 1520 Hui-mang-e Me-ari (Echo of Hope): KK pgm (Harms UT 1/20 242) 5720 1600 R. Korea: EE nx, ID, report on reunification (Lattemann WA 1/26 333 6348 0910 R. Echo of Hope: KK tlk, folk mx, Peking on 6345 (Harms UT 1/20 332 6348 0910 R. Echo of Hope: KK tlk, folk mx, Peking on 6345 (Harms UT 1/20 332 7275 *0800 RK: Indo? w/ IS, s/on, ID, freqs, nx (Dubee CA 1/26 433) 7550 *2300 RK: ID,freq., nx, editorial (Wampler VA)(Vollrath MO)(Ledford NJ)++ 9525 0835 RK: EE nx in GOS, QHM (Dubee CA 2/4 333) 9640 *0800 RK: Indo OM w/ s/on, ID, nx (Thompson CA 2/4)(Miller CA)(Dubbe CA) 9720 1605 RK: EE tlk on indust, dev., ID (Dilk NJ)(Nikolich IL)(Snyder NY)+++ 9870 1330 RK: EE nx, KK mx (Pallen QUE)(Thompson CA)(@ 0530 Barry CA) <u>KUWAIT</u> 12085 1825 RK: rock mx, EE nx (Dilk NJ 1/18)(Hodsdon MN)(Yajko PA)(Cereghin MI 15290 2000 RK: nf?, EE nx, ID, "Pop Sessions Show" (Cereghin MD 2/11 333)	2) ++
2510 1347 Taegu: KK OM tlk, mx (Howell CA 1/26 353) 3985 1520 Hui-mang-e Me-ari (Echo of Hope): KK pgm (Harms UT 1/20 242) 5720 1600 R. Korea: EE nx, ID, report on reunification (Lattemann WA 1/26 333 6135 0900 KBS 3: KK ID, into nx (Harms UT 1/20 332) 6348 0910 R. Echo of Hope: KK tlk, folk mx, Peking on 6345 (Harms UT 1/20 332 7275 *0800 RK: Indo? w/ IS, s/on, ID, freqs, nx (Dubee CA 1/26 433) 7550 *2300 RK: ID, freq., nx. editorial (Wampler VA)(Vollrath MO)(Ledford NJ)++ 9525 0835 RK: EE nx in GOS, QRM (Dubee CA 2/4 333) 9640 *0800 RK: Indo OM w/ s/on, ID, nx (Thompson CA 2/4)(Miller CA)(Dubbe CA) 9720 1605 RK: EE tlk on indust. dev., ID (Dilk NJ)(Nikolich IL)(Snyder NY)+++ 9870 1330 RK: EE nx, KK mx (Pallen QUE)(Thompson CA)(@ 0530 Barry CA) KUWAIT 12085 1825 RK: rock mx, EE nx (Dilk NJ 1/18)(Hodsdon MN)(Yajko PA)(Cereghin MI 15290 2000 RK: nf?, EE nx, ID, "Pop Sessions Show" (Cereghin MD 2/11 333) 15345 1235 RK: FE YL w/ Mideast nx, ID, wx (Hensley TX)(Boyd FRG)(Franzis CT)	2) ++
2510 1347 Taegu: KK OM tlk, mx (Howell CA 1/26 353) 3985 1520 Hui-mang-e Me-ari (Echo of Hope): KK pgm (Harms UT 1/20 242) 5720 1600 H. Korea: EE nx, ID, report on reunification (Lattemann WA 1/26 333 6348 0910 H. Echo of Hope: KK tlk, folk mx, Peking on 6345 (Harms UT 1/20 332) 6348 0910 R. Echo of Hope: KK tlk, folk mx, Peking on 6345 (Harms UT 1/20 332) 6348 0910 R. Echo of Hope: KK tlk, folk mx, Peking on 6345 (Harms UT 1/20 332) 6348 0910 R. Echo of Hope: KK tlk, folk mx, Peking on 6345 (Harms UT 1/20 332) 7255 *0800 RK: Indo? w/ IS, s/on, ID, freqs, nx (Dubee CA 1/26 433) 7550 *2300 RK: ID, freq., nx, editorial (Wampler VA) (Vollrath MO)(Ledford NJ)++ 952 0835 RK: EE nx in GOS, QRM (Dubee CA 2/4 333) 9640 *0800 RK: Indo OM w/ s/on, ID, nx (Thompson CA 2/4)(Miller CA)(Dubbe CA) 9720 1605 RK: EE tlk on indust. dev., ID (Dilk NJ)(Nikolich IL)(Snyder NY)+++ 9870 1330 RK: EE nx, KK mx (Pallen QUE)(Thompson CA)(@ 0530 Barry CA) <u>KUWAIT</u> 12085 1825 RK: rock mx, EE nx (Dilk NJ 1/18)(Hodsdon MN)(Yajko PA)(Cereghin MI 15290 2000 RK: nf?, EE nx, ID, "Pop Sessions Show" (Cereghin MD 2/11 333) 15345 1735 RK: EE YL w/ Mideast nx, ID, wx (Hensley TX)(Boyd FRG)(Franzis CT) 21540 0715 RK: EE w/ pop mx, ID by YL, "The Year in Pop", 0800* (Mougenot	2) ++
2510 1347 Taegu: KK OM tlk, mx (Howell CA 1/26 353) 3985 1520 Hui-mang-e Me-ari (Echo of Hope): KK pgm (Harms UT 1/20 242) 5720 1600 H. Korea: EE nx, ID, report on reunification (Lattemann WA 1/26 333 6135 0900 KBS 3: KK ID, into nx (Harms UT 1/20 332) 6348 0910 R. Echo of Hope: KK tlk, folk mx, Peking on 6345 (Harms UT 1/20 332 7255 *0800 RK: Indo? w/ IS, s/on, ID, freqs, nx (Dubee CA 1/26 433) 7550 *2300 RK: ID, freq., nx, editorial (Wampler VA)(Vollrath MO)(Ledford NJ)++ 525 0835 RK: EE nx in GOS, QRM (Dubee CA 2/4 333) 9640 *0800 RK: Indo OM w/ s/on, ID, nx (Thompson CA 2/4)(Miller CA)(Dubbe CA) 9720 1605 RK: EE tlk on indust. dev., ID (Dilk NJ)(Nikolich IL)(Snyder NY)+++ 9870 1330 RK: EE nx, KK mx (Pallen QUE)(Thompson CA)(@ 0530 Barry CA) KUWAIT 12085 1825 RK: nock mx, EE nx (Dilk NJ 1/18)(Hodsdon MN)(Yajko PA)(Cereghin MI 15290 2000 RK: nf?, EE nx, ID, "Pop Sessions Show" (Cereghin MD 2/11 333) 15345 1735 RK: EE YL w/ Mideast nx, ID, wx (Hensley TX)(Boyd FRG)(Franzis CT) 21540 0715 RK: EE w/ pop mx, ID by YL, "The Year in Fop", 0800* (Mougenot FRANCE 2/10)	2) ++
2510 1347 Taegu: KK OM tlk, mx (Howell CA 1/26 353) 3985 1520 Hui-mang-e Me-ari (Echo of Hope): KK pgm (Harms UT 1/20 242) 5720 1600 H. Korea: EE nx, ID, report on reunification (Lattemann WA 1/26 333 6135 0900 KBS 3: KK ID, into nx (Harms UT 1/20 332) 6348 0910 H. Echo of Hope: KK tlk, folk mx, Peking on 6345 (Harms UT 1/20 332) 7255 *0800 RK: Indo? w/ IS, s/on, ID, fregs, nx (Dubee CA 1/26 433) 7550 *2300 RK: ID,freq., nx, editorial (Wampler VA)(Vollrath MO)(Ledford NJ)++ 952 0835 RK: EE nx in GOS, QRM (Dubee CA 2/4 333) 9640 *0800 RK: Indo OM w/ s/on, ID, nx (Thompson CA 2/4)(Miller CA)(Dubbe CA) 9720 1605 RK: EE tlk on indust. dev., ID (Dilk NJ)(Nikolich IL)(Snyder NY)+++ 9870 1330 RK: EE nx, KK mx (Pallen QUE)(Thompson CA)(@ 0530 Barry CA) <u>KUWAIT</u> 12085 1825 RK: rock mx, EE nx (Dilk NJ 1/18)(Hodsdon MN)(Yajko PA)(Cereghin MI 15290 2000 RK: nf?, EE nx, ID, "Pop Sessions Show" (Cereghin MD 2/11 333) 15345 1735 RK: EE YL w/ Mideast nx, ID, wx (Hensley TX)(Boyd FRG)(Franzis CT) 21540 0715 RK: EE w/ pop mx, ID by YL, "The Year in Pop", 0800* (Mougenot FRANCE 2/10) <u>LAOS</u> 1405	2) ++
2510       1347       Taegu: KK OM tlk, mx (Howell CA 1/26 353)         3985       1520       Hui-mang-e Me-ari (Echo of Hope): KK pgm (Harms UT 1/20 242)         5720       1600       R. Korea: EE nx, ID, report on reunification (Lattemann WA 1/26 333         6135       0900       KBS 3: KK ID, into nx (Harms UT 1/20 332)         6348       0910       R. Echo of Hope: KK tlk, folk mx, Peking on 6345 (Harms UT 1/20 332         7275       *0800       RK: Indo? w/ IS, s/on, ID, freqs, nx (Dubee CA 1/26 433)         7550       *2300       RK: ID, freq., nx, editorial (Wampler VA)(Vollrath MO)(Ledford NJ)++         952       0835       RK: EE nx in GOS, QHM (Dubee CA 2/4 333)         9640       *0800       RK: Indo OM w/ s/on, ID, nx (Thompson CA 2/4)(Miller CA)(Dubbe CA)         9720       1605       RK: EE tlk on indust. dev., ID (Dilk NJ)(Nikolich IL)(Snyder NY)+++         9870       1330       RK: EE nx, KK mx (Pallen QUE)(Thompson CA)(@ 0530 Barry CA)         KUWAIT       12085       1825       RK: rock mx, EE nx (Dilk NJ 1/18)(Hodsdon MN)(Yajko PA)(Cereghin MI         15290       2000       RK: nf?, EE nx, ID, "Pop Sessions Show" (Cereghin MD 2/11 333)         15345       1735       RK: EE YL w/ Mideast nx, ID, wx (Hensley TX)(Boyd FRG)(Franzis CT)         21540       0715       RK: EE w/ pop mx, ID by YL, "The Year in Pop", 0800* (Mougenot FRANCE	2) ++
2510       1347       Taegu: KK OM tlk, mx (Howell CA 1/26 353)         3985       1520       Hui-mang-e Me-ari (Echo of Hope): KK pgm (Harms UT 1/20 242)         5720       1600       R. Korea: EE nx, ID, report on reunification (Lattemann WA 1/26 333)         6135       0900       KBS 3: KK ID, into nx (Harms UT 1/20 332)         6348       0910       R. Echo of Hope: KK tlk, folk mx, Peking on 6345 (Harms UT 1/20 332)         6348       0910       R. Echo of Hope: KK tlk, folk mx, Peking on 6345 (Harms UT 1/20 332)         7550       *2300       RK: Indo? w/ IS, s/on, ID, freqs, nx (Dubee CA 1/26 433)         7550       *2300       RK: ID, freq., nx, editorial (Wampler VA)(Vollrath MO)(Ledford NJ)++         9520       0835       RK: EE nx in GOS, QHM (Dubee CA 2/4 333)         9640       *0800       RK: Indo OM w/ s/on, ID, nx (Thompson CA 2/4)(Miller CA)(Dubbe CA)         9720       1605       RK: EE tlk on indust. dev., ID (Dilk NJ)(Nikolich IL)(Snyder NY)+++         9870       1330       RK: EE nx, KK mx (Pallen QUE)(Thompson CA)(@ 0530 Barry CA)         KUWAIT       12085       1825       RK: rock mx, EE nx (Dilk NJ 1/18)(Hodsdon MN)(Yajko PA)(Cereghin MI         15290       2000       RK: nf?, EE nx, ID, "Pop Sessions Show" (Cereghin MD 2/11 333)         15345       1735       RK: EE YL w/ Mideast nx, ID, wx (Hensley TX)(Boyd FRG)(Franzis CT)	2) ++
2510       1347       Taegu: KK OM tlk, mx (Howell CA 1/26 353)         3985       1520       Hui-mang-e Me-ari (Echo of Hope): KK pgm (Harms UT 1/20 242)         5720       1600       R. Korea: EE nx, ID, report on reunification (Lattemann WA 1/26 333)         6135       0900       KBS 3: KK ID, into nx (Harms UT 1/20 332)         6348       0910       R. Echo of Hope: KK tlk, folk mx, Peking on 6345 (Harms UT 1/20 332)         6348       0910       R. Echo of Hope: KK tlk, folk mx, Peking on 6345 (Harms UT 1/20 332)         7275       *0800       RK: Indo? w/ IS, s/on, ID, freqs, nx (Dubee CA 1/26 433)         7550       *2300       RK: ID,freq., nx, editorial (Wampler VA)(Vollrath MO)(Ledford NJ)++         9525       0835       RK: EE nx in GOS, QRM (Dubee CA 2/4 333)         9640       *0800       RK: Indo OM w/ s/on, ID, nx (Thompson CA 2/4)(Miller CA)(Dubbe CA)         9720       1605       RK: EE tlk on indust. dev., ID (Dilk NJ)(Nikolich IL)(Snyder NY)+++         9870       1330       RK: EE nx, KK mx (Pallen QUE)(Thompson CA)(@ 0530 Barry CA)         KUWAIT       12085       1825       RK: rock mx, EE nx (Dilk NJ 1/18)(Hodsdon MN)(Yajko PA)(Cereghin MI         15290       2000       RK: nf?, EE nx, ID, "Pop Sessions Show" (Cereghin MD 2/11 333)         15345       1735       RK: EE YL w/ Mideast nx, ID, wx (Hensley TX)(Boyd FRG)(Franzis CT)<	2) ++
2510       1347       Taegu: KK OM tlk, mx (Howell CA 1/26 353)         3985       1520       Hui-mang-e Me-ari (Echo of Hope): KK pgm (Harms UT 1/20 242)         5720       1600       H. Korea: EE nx, ID, report on reunification (Lattemann WA 1/26 333)         6135       0900       KBS 3: KK ID, into nx (Harms UT 1/20 332)         6348       0910       R. Echo of Hope: KK tlk, folk mx, Peking on 6345 (Harms UT 1/20 332)         7275       *0800       RK: Indo? w/ IS, s/on, ID, freqs, nx (Dubee CA 1/26 433)         7550       *2300       RK: ID, freq., nx, editorial (Wampler VA) (Vollrath MO)(Ledford NJ)++         9525       0835       RK: EE nx in GOS, QRM (Dubee CA 2/4 333)         9640       *0800       RK: Indo OM w/ s/on, ID, nx (Thompson CA 2/4)(Miller CA)(Dubbe CA)         9720       1605       RK: EE tlk on indust. dev., ID (Dilk NJ)(Nikolich IL)(Snyder NY)+++         9870       1330       RK: EE nx, KK mx (Pallen QUE)(Thompson CA)(@ 0530 Barry CA)         KUWAIT       12085       1825       RK: nock mx, EE nx (Dilk NJ 1/18)(Hodsdon MN)(Yajko PA)(Cereghin MI 15290 2000         15345       1735       RK: EE nx, ID, "Pop Sessions Show" (Cereghin MD 2/11 333)         15345       1735       RK: EE M/ pop mx, ID by YL, "The Year in Pop", 0800* (Mougenot FRANCE 2/10)         1405       1254       R. Houa Phan: IS, ID in Lao?, flute mx, anomts, mx (	2) ++
2510       1347       Taegu: KK OM tlk, mx (Howell CA 1/26 353)         3985       1520       Hui-mang-e Me-ari (Echo of Hope): KK pgm (Harms UT 1/20 242)         5720       1600       H. Korea: EE nx, ID, report on reunification (Lattemann WA 1/26 333         6135       0900       K. Korea: EE nx, ID, report on reunification (Lattemann WA 1/26 333         6348       0910       H. Echo of Hope: KK tlk, folk mx, Peking on 6345 (Harms UT 1/20 332         7275       *0800       RK: Indo? w/ IS, s/on, ID, fregs, nx (Dubee CA 1/26 433)         7550       *2300       RK: ID, freq., nx, editorial (Wampler VA)(Vollrath MO)(Ledford NJ)++         9520       0835       RK: EE nx in GOS, QRM (Dubee CA 2/4 333)         9640       *0800       RK: Indo OM w/ s/on, ID, nx (Thompson CA 2/4)(Miller CA)(Dubbe CA)         9720       1605       RK: EE tlk on indust. dev., ID (Dilk NJ)(Nikolich IL)(Snyder NY)+++         9870       1330       RK: EE nx, KK mx (Pallen QUE)(Thompson CA)(@ 0530 Barry CA)         KUWAIT       12085       182: RK: rock mx, EE nx (Dilk NJ 1/18)(Hodsdon MN)(Yajko PA)(Cereghin MI 15290         15345       1735       RK: EE YL w/ Mideast nx, ID, wx (Hensley TX)(Boyd FRG)(Franzis CT)         21540       0715       RK: EE W/ pop mx, ID by YL, "The Year in Fop", 0800* (Mougenot FRANCE 2/10)         L205       1254       R. Houa Phan: IS, ID in Lao?, flute mx,	2) ++
2510       1347       Taegu: KK OM tlk, mx (Howell CA 1/26 353)         3985       1520       Hui-mang-e Me-ari (Echo of Hope): KK pgm (Harms UT 1/20 242)         5720       1600       H. Korea: EE nx, ID, report on reunification (Lattemann WA 1/26 333)         6315       0900       KBS 3: KK ID, into nx (Harms UT 1/20 332)         6348       0910       R. Echo of Hope: KK tlk, folk mx, Peking on 6345 (Harms UT 1/20 332)         7275       *0800       RK: Indo? w/ IS, s/on, ID, freqs, nx (Dubee CA 1/26 433)         7550       *2300       RK: ID, freq., nx, editorial (Wampler VA)(Vollrath MO)(Ledford NJ)++         9525       0835       RK: EE nx in GOS, QRM (Dubee CA 2/4 333)         9640       *0800       RK: Indo OM w/ s/on, ID, nx (Thompson CA 2/4)(Miller CA)(Dubbe CA)         9720       1605       RK: EE nx, KK mx (Pallen QUE)(Thompson CA)(@ 0530 Barry CA)         870       1330       RK: EE nx, ID, "Pop Sessions Show" (Cereghin MD 2/11 333)         15290       2000       RK: nf?, EE nx, ID, wx (Hensley TX)(Boyd FRG)(Franzis CT)         21540       0715       RK: EE W/ pop mx, ID by YL, "The Year in Pop", 0800* (Mougenot         14057       1254       R. Houa Phan: IS, ID in Lao?, flute mx, anomts, mx (Young CA 1/25)         6555       1240       R. Pakse: Lao mx, ID "Thini withayuPakse, RP", 1400* (Komai         1575	2) ++
2510       1347       Taegu: KK OM tlk, mx (Howell CA 1/26 353)         3985       1520       Hui-mang-e Me-ari (Echo of Hope): KK pgm (Harms UT 1/20 242)         5720       1600       R. Korea: EE nx, ID, report on reunification (Lattemann WA 1/26 333)         6135       0900       KBS 3: KK ID, into nx (Harms UT 1/20 332)         6348       0910       R. Echo of Hope: KK tlk, folk mx, Peking on 6345 (Harms UT 1/20 332)         7275       *0800       RK: Indo? w/ IS, s/on, ID, freqs, nx (Dubee CA 1/26 433)         7550       *2300       RK: ID,freq., nx, editorial (Wampler VA)(Vollrath MO)(Ledford NJ)++         9520       0835       RK: Enx in GOS, QRM (Dubee CA 2/4 333)         9640       *0800       RK: Indo OM w/ s/on, ID, nx (Thompson CA 2/4)(Miller CA)(Dubbe CA)         9720       1605       RK: EE tlk on indust. dev., ID (Dilk NJ)(Nikolich IL)(Snyder NY)+++         9870       1330       RK: EE nx, KK mx (Pallen QUE)(Thompson CA)(@ 0530 Barry CA)         KUWAIT       I2085       1825       RK: nock mx, EE nx (Dilk NJ 1/18)(Hodsdon MN)(Yajko PA)(Cereghin MI         15290       2000       RK: nf?, EE nx, ID, "Pop Sessions Show" (Cereghin MD 2/11 333)         15345       1735       RK: EE YL w/ Mideast nx, ID, wx (Hensley TX)(Boyd FRG)(Franzis CT)         21540       0715       RK: EE Nx, ID by YL, "The Year in Pop", 0800* (Mougenot FANCE 2/10) <td>2) ++</td>	2) ++
2510       1347       Taegu: KK OM tlk, mx (Howell CA 1/26 353)         3985       1520       Hui-mang-e Me-ari (Echo of Hope): KK pgm (Harms UT 1/20 242)         5720       1600       R. Korea: EE nx, ID, report on reunification (Lattemann WA 1/26 333)         6348       0910       R. Korea: EE nx, ID, report on reunification (Lattemann WA 1/26 333)         6348       0910       R. Echo of Hope: KK tlk, folk mx, Peking on 6345 (Harms UT 1/20 332)         7275       *0800       RK: Indo? w/ IS, s/on, ID, freqs, nx (Dubee CA 1/26 433)         7550       *2300       RK: Indo? w/ IS, s/on, ID, nx (Duber VA)(Vollrath MO)(Ledford NJ)++         9525       0835       RK: EE nx in GOS, QRM (Dubee CA 2/4 333)         9640       *0800       RK: Indo OM w/ s/on, ID, nx (Thompson CA 2/4)(Miller CA)(Dubbe CA)         9720       1605       RK: EE tlk on indust. dev., ID (Dilk NJ)(Nikolich IL)(Snyder NY)+++         9870       130       RK: EE nx, KK mx (Fallen QUE)(Thompson CA)(@ 0530 Barry CA)         KUWAIT         12085       1825       RK: nf?, EE nx, ID, "Pop Sessions Show" (Cereghin MD 2/11 333)         15345       1735       RK: EE YL w/ Mideast nx, ID, wx (Hensley TX)(Boyd FRG)(Franzis CT)         21540       R. Pakse: Lao mx, ID thy L, "The Year in Pop", 0800* (Mougenot FRANCE 2/10)         4557       1254       R. Houa Phan: IS, ID in	2) ++
2510       1347       Taegu: KK OM tlk, mx (Howell CA 1/26 353)         3985       1520       Hui-mang-e Me-ari (Echo of Hope): KK pgm (Harms UT 1/20 242)         5720       1600       R. Korea: EE nx, ID, report on reunification (Latteman WA 1/26 333         6135       0900       KBS 3: KK ID, into nx (Harms UT 1/20 332)         6348       0910       R. Echo of Hope: KK tlk, folk mx, Peking on 6345 (Harms UT 1/20 332         7275       *0800       RK: ID,freq., nx, editorial (Wampler VA)(Vollrath MO)(Ledford NJ)++         9540       *2300       RK: ID,freq., nx, editorial (Wampler VA)(Vollrath MO)(Ledford NJ)++         9640       *0800       RK: ID, of My S/on, ID, nx (Thompson CA 2/4)(Miller CA)(Dubbe CA)         9720       1605       RK: EE tlk on indust. dev., ID (Dilk NJ)(Nikolich IL)(Snyder NY)+++         9870       1330       RK: EE nx, KK mx (Pallen QUE)(Thompson CA)(@ 0530 Barry CA)         KUWAIT       12085       1825       RK: nock mx, EE nx (Dilk NJ 1/18)(Hodsdon MN)(Yajko PA)(Cereghin MI         15290       2000       RK: nf7, EE nx, ID, "Pop Sessions Show" (Cereghin MD 2/11 333)       15345         15345       1735       RK: EE YL w/ Mideast nx, ID, wx (Hensley TX)(Boyd FRG)(Franzis CT)       21540         1540       0715       RK: EE nx, ID, pop mx, ID by YL, "The Year in Pop", 0800* (Mougenot FRANCE 2/10)       FRANCE 2/10)	2) ++
2510 1347 Taegu: KK OM tlk, mx (Howell CA 1/26 353) 3985 1520 Hui-mang-e Me-ari (Echo of Hope): KK pgm (Harms UT 1/20 242) 5720 1600 F. Korea: EE nx, ID, report on reunification (Lattemann WA 1/26 333 6135 0900 KBS 3: KK ID, into nx (Harms UT 1/20 332) 6348 0910 F. Echo of Hope: KK tlk, folk mx, Peking on 6345 (Harms UT 1/20 332 7275 *0800 FK: Indo? W/ IS, s/on, ID, freqs, nx (Dubee CA 1/26 433) 7550 *2300 FK: ID,freq., nx, editorial (Wampler VA)(Vollrath MO)(Ledford NJ)++ 9640 *0800 FK: Indo OM W s/on, ID, nx (Thompson CA 2/4)(Miller CA)(Dubbe CA) 9720 1605 FK: EE nx in GOS, QFM (Dubee CA 2/4)(Miller CA)(Dubbe CA) 9720 1605 FK: EE tlk on indust. dev., ID (Dilk NJ)(Nikolich IL)(Snyder NY)+++ 9870 1330 FK: EE nx, KK mx (Fallen QUE)(Thompson CA)(@ 0530 Barry CA) <u>KUWAITT</u> 12085 1825 FK: rock mx, EE nx (Dilk NJ 1/18)(Hodsdon MN)(Yajko FA)(Cereghin ME 15290 2000 FK: nf7, EE nx, ID, "Pop Sessions Show" (Cereghin MD 2/11 333) 15345 1735 FK: EE YL w/ Mideast nx, ID, wx (Hensley TX)(Boyd FRG)(Franzis CT)) 21540 0715 FK: EE W/ pop mx, ID by YL, "The Year in Pop", 0800* (Mougenot <u>FFANCE 2/10)</u> <u>1405</u> 14557 1254 F. Houa Phan: IS, ID in Lao?, flute mx, ancmts, mx (Young CA 1/25) 6595 1240 F. Pakse: Lao mx, ID "Thini withayuPakse, RP", 1400* (Komai JAPAN 1/12) <u>1580 1825 FL: 1000Hz tone, IS, 1830 anthem, EE nx by OM (Donly SC 1/22)</u> 17710 0006 FL: spirited AA mx, 0032*, into SS w/ ID (Donly SC 1/27 332) <b>MALAYSIA (SAFAWAK)</b> <b>MALAYSIA (</b>	2) ++
2510       1347       Taegu: KK OM tlk, mx (Howell CA 1/26 353)         3985       1520       Hui-mang-e Me-ari (Echo of Hope): KK pgm (Harms UT 1/20 242)         5720       1600       R. Korea: EE nx, ID, report on reunification (Lattemann WA 1/26 333)         6135       0900       KBS 3: KK ID, into nx (Harms UT 1/20 332)         6348       0910       R. Echo of Hope: KK tlk, folk mx, Peking on 6345 (Harms UT 1/20 332)         7275       *8000       RK: Indo? w/ IS, s/on, ID, freqs, nx (Dubee CA 1/26 433)         7550       *2300       RK: ID,freq., nx, editorial (Wampler VA)(Vollrath MO)(Ledford NJ)++         9525       0835       RK: EE nx in GOS, QRM (Dubee CA 2/4 333)         9640       *KK ind OM w/ s/on, ID, nx (Thompson CA)(@ 0530 Barry CA)         8720       1605       RK: EE nx, KK mx (Pallen QUE)(Thompson CA)(@ 0530 Barry CA)         870       1330       RK: EE nx, ID, "Pop Sessions Show" (Cereghin MD 2/11 333)         15290       2000       RK: nf?, EE nx, ID, "Pop Sessions Show" (Cereghin MD 2/11 333)         15345       1735       RK: EE W/ Mideast nx, ID, wx (Hensley TX)(Boyd FRO)(Franzis CT)         21540       0715       RK: EE w/ pop mx, ID by YL, "The Year in Pop", 0800* (Mougenot FRA)(Cereghin MI         15290       2000       RK: nf?, EE nx, ID, "Doy mx (Hensley: TX)(Boyd FRO)(Franzis CT)         21540       071	2) ++ D)
2510       1347       Taegu: KK OM tlk, mx (Howell CA 1/26 353)         3985       1520       Hui-mang-e Me-ari (Echo of Hope): KK pgm (Harms UT 1/20 242)         5720       1600       R. Korea: EE nx, ID, report on reunification (Lattemann WA 1/26 333)         6135       0900       KBS 3: KK ID, into nx (Harms UT 1/20 332)         6344       0910       R. Echo of Hope: KK tlk, folk mx, Peking on 6345 (Harms UT 1/20 332)         7275       *8800       RK: Indo? w/ IS, s/on, ID, freqs, nx (Dubee CA 1/26 433)         7550       *2300       RK: ID,freq., nx. editorial (Wampler VA)(Vollrath MO)(Ledford NJ)++         9640       *800       RK: ED nr in GOS, QRM (Dubee CA 2/4 33)         9640       *800       RK: Indo OM w/ s/on, ID, nx (Thompson CA 2/4)(Miller CA)(Dubbe CA)         9720       1605       RK: EE nx, KK mx (Fallen QUE)(Thompson CA)(@ 0530 Barry CA)         KUWAIT       12085       1825       RK: nf?, EE nx, ID, "Pop Sessions Show" (Cereghin MD 2/11 333)         15345       1735       RK: EE YL w/ Mideast nx, ID, wx (Hensley TX)(Boyd FRO)(Franzis CT)         21540       0715       RK: EE w/ pop mx, ID by YL, "The Year in Pop", 0800* (Mougenot FRANCE 2/10)         4655       1254       R. Houa Phan: IS, ID in Lao?, flute mx, ancmts, mx (Young CA 1/25)         6555       1240       R. Pakse: Lao mx, ID "Thini withayuPakse, RP", 1400* (Komai	2) ++ D)
2510       1347       Taegu: KK OM tlk, mx (Howell CA 1/26 353)         3985       1520       Hui-mang-e Me-ari (Echo of Hope): KK pgm (Harms UT 1/20 242)         5720       1600       R. Korea: EE nx, ID, report on reunification (Lattemann WA 1/26 333)         6135       0900       KBS 3: KK ID, into nx (Harms UT 1/20 332)         6344       0910       R. Echo of Hope: KK tlk, folk mx, Peking on 6345 (Harms UT 1/20 332)         7275       *8000       RK: Indo? w/ IS, s/on, ID, freqs, nx (Dubee CA 1/26 433)         7550       *2300       RK: ID,freq., nx, editorial (Wampler VA)(Vollrath MO)(Ledford NJ)++         9640       *0800       RK: ID,freq., nx, editorial (Wampler VA)(Vollrath MO)(Ledford NJ)++         9640       *0800       RK: ID,freq., nx, editorial (Wampler VA)(Vollrath MO)(Ledford NJ)++         9640       *0800       RK: EE nx in GOS, QRM (Dubee CA 2/4 33)         9720       1605       RK: EE nx, KK mx (Fallen QUE)(Thompson CA)(@ 0530 Barry CA)         WWMIT       Ilog5       1325       RK: rock mx, EE nx (Dilk NJ 1/18)(Hodsdon MN)(Yajko PA)(Cereghin ML 2/11 333)         15345       1735       RK: EE N, ID, "Pop Sessions Show" (Cereghin MD 2/11 333)       15345         1545       1254       R. Houe Phan: IS, ID in Lao?, flute mx, ancmts, mx (Young CA 1/25)       6595         6595       1240       R. Pakse: Lao mx, ID "Th	2) ++ D)

<u>NEPAL</u> 3425 5005	1438 1223	R. Nepal: EE w/ Indian-type mx, ID, nx, // 5005 (Young 1/24 242) RN: Nepali? lite folk mx, tabla, flutes, tlk (Feck NY 1/9 141)
0MAN 7140	0000	His Majariy's Contantent Department of Monitoring RBDC Eastern Relay, Masirah: IS, EE ID w/ site, nx (Moore FA 1/18)
PAKIST 5059 7095 7265 9460 9465 9790 11642 11677 17640 17665 17830 21590 21620	AN 1452 0128 0148 1510 2019 0040 1925 1645 1545 1545 1745 0230 1000	<ul> <li>R. Pakistan: Urdu OM tlk, then 1500 ID, nx (Bodell OR 1/29 333)</li> <li>RP: IS, s/on w/ Qu'ran, then 0150 mx (Newell BC 1/13 322)</li> <li>RP: Pakistani vocals, YL singing, // 5060, 7095 (Bodell OR 1/29 333)</li> <li>RP: Urdu OM/YL nx, tlk, local mx, reeds, pipes, flutes (Oakley 1/29)</li> <li>RP: Urdu w/ nx, mentions of Pakistan (Yajko PA 1/14 344)/ liams OR)</li> <li>RP: subcont. vocals, ID, anthem, 0055*, 0100 Tirana on (Bodell/W11-</li> <li>RP: FF w/ Pak, film mx, chorus, YL singing, tabla, tlk (Peck NY)</li> <li>RP: Urdu, choral mx, anthem, 1600 EE nx (Barry CA)(Shridharani NY)</li> <li>RP: EE nx, then Urdu tlk, mx (Ledford NJ)(Peck NY)(@ 0610 Pimblett)</li> <li>RP: A after BBC off, chants, YL/OM tlk, no ID (Famularo NJ 2/3 444)</li> <li>RP: Urdu? w/ Pakistani mx, YL ID @ 1000, nx (Mougenot FRANCE 2/10)</li> </ul>
PHILIP 7225 9590 9670 9715 11765 11855 11855 15450 15275 15450 17710 17740 17810	PPINES 1020 1300 2138 1340 0915 1600 2301 0000 2310 0000 0013 0210	FEBC: EE mx, tlk by OM, TPs, IDs, QRM (Miller CA 2/3 533) ) R. Veritas Asia: EE nx, Footnotes on Asian Neighbors (Miller CA 1/20 VOA: Korean nx, cmtry, // 7160 (Harms UT 2/2 343) FEBC: Japanese tlk by OM/YL, mx, IDs (Miller CA 1/17 332) FEBC: relig. chorus, tlk in Asian lang (Pompe BELGIUM 1/17 444) FEBC: EE "Back to the Bible", ID, tlk (Ledford NJ 2/2 333) FEBC: EE mx, ID, tlk on QSLs, address, mx (Worrel ND 1/14 544) RVA: EE mx, request pgm, C & W mx, Indo was 2255 (Zilmer WI 1/17)NY) FEBC: EE ID, freqs, mx, nx (Fisher MA)(Kegel MD)(Miller CA)(Zilmer)++ VOA: nx in Special EE (Wampler VA 2/2 253) ONT) FEBC: EE YL w/ requests, nx, // 15155, 21515 (Norcross WESPAC)(Skora
<u>QATAR</u> 9570	1335	QBS: chanting?, bells in background, some tlk by OM (Radcliff IL)
<u>SA·UDI</u> 5068v 5877 6085 11685v 11855 11950 15060 15115 21505 21520	2235 2216 2245	BSKSA: AA tlk, chanting, 2259* w/ anthem, // 6085 (Donly SC 1/25) BSKSA: AA drama, mood mx, ID by OM @ 2230, nx (Donly SC 1/22 333) BSKSA: AA drama, tlk by OM (Dilk NJ 1/22 433) CA) BSKSA: AA w/ local mx, 0518 ID (Moore FA 1/12 353)(// 11870 Barry Holy Qu'ran Station: continuous Qu'ran by OM (Pimblett ALB)(Donly) BSKSA: EE w/ pop mx, s/off w/ march mx (Pettit IA)(Famularo NJ)++++ BSKSA: AA mx, ID @ 2034, tlk by OM/YL (Donly SC 1/21 242) BSKSA: AA w/ soap opera, mx, ID, freq. (Byron NY)(Hensley TX)+++++ BSKSA: AA ID, world nx in slo speed, cmtry, is 50 Kw. (Ledford NJ) BSKSA: AA singing, tlk, abruptly off @ 1700 (Barry CA 1/12 343)++++ BSKSA: Swahili w/ nx, vocals, tlk, anthem, 1653* (Thompson NM 1/27)
<u>SINGAP</u> 5052 6195 7180 9635 9740 11940	ORE 1455 2246 1258 1200 1419 0820	BBC WORLD SERVICE R. Singapore: EE YL w/ pop mx, inst. (Thompson CA 2/4 534) BBC: EE WS w/ "Sports Roundup", ID, nx (Donly SC)(@ 1429 Naylor CA) BBC: EE "Weekly Echoes", EE lang. lesson, ID (Naylor CA 2/2 443) RS: CC tlk, classical mx, 1216 ID (Donly SC 1/25 242) BBC: EE WS pgrm, weaker since the move (Naylor 1/21 343) agreedt RS: EE YL ancr, request pgrm of mx (Zink CA 2/1)(Ledford NJ @ 1100)
<u>SRI LA</u> 4968 9720 11870 15120 15185 15425	<u>NKA</u> 1520 0150 1910 1900 0200 0140	Williams OR 2/17) SLBC 1: EE w/ subcont. mx, ID, nx, "R.Newsreel", Tamil ID (Bodell/ SLBC: EE w/ relig. tlk by OM, gospel mx (Yajko FA 1/23 333) SLBC: EE w/ request pgm, pop mx, 1915 ID, EE s/off (Mougenot FRANCE) SLBC: EE ID, pop mx, request pgm, mailing address (Ledford NJ 1/29) VOA Colombo: EE w/ "Bkfst Show", mx, tlk (Thompson NM 1/20 353) SLBC: EE w/ "Back to the Bible" (Vollrath MO 1/15)(Worrel ND)(Yajko)
TAIWAN 7130 11825 11905 15345 15425 17800 17890	1252 2248 1610 0100 *0100	VOFC: CC YL w/ tlk, 1300 into u/lang @ 1300 w/ nx (Naylor CA 2/1) VOFC: Mandarin w/ tlk, IS, ID, orch. mx (Thompson NM 1/30 444) VOFC: CC mx, nx, 1615* (Ledford NJ 2/2 333) VOFC: EE nx, cmtry, // 15425, 17890 (Moore PA 1/18 232) VOFC: EE YL ancr, sked, local nx (Pyne MD)(Forbes TX)(Zavatsky CT) VOFC: SS s/on w/ anthem, ID, freqs, address (Pimblett ALB 1/21 433) VOFC: EE w/ "Let's Learn CC", ID (Schroeder WI)(Skora ONT)(Yajko)++

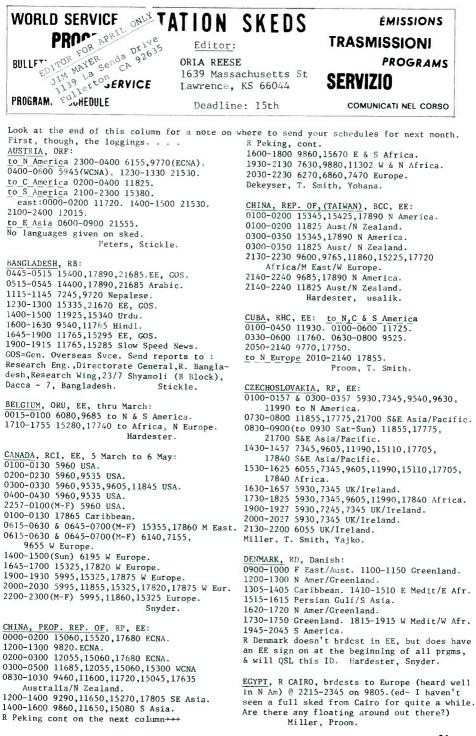
THAILAND R. Thailand: Thai 2 OMs tlk, short mx IS (Oakley CA 1/23 422) 4830 1410 RT: JJ tlk, mx, to 1450 (Komai JAPAN)(EE @ 1100 Norcross WESPAC) 9654 1430 TURKEY 7170 \*2130 V. of Turkey: EE IS, s/on, into nx, // 9515 (Yajko PA 1/21 333) VOT: EE/TT ID, EE pgm (Piszczek NY 1/19)(Coleman MA)(Schroeder WI) (Smith FL)(Worrel ND)(Earhart PA)(Mayer CA)(Skora ONT)(Curtis TN)++ \*2130 9515 VOT: EE nx, ID, mx (Eaton WI)(Fraser MA)(Smith FL)(Barry CA) VOT: TT mx, OM ancr, ID, // 9515, 9665 (Donly SC)(Maghakian CA) 11955 2218 15135 0620 ANKARA UNION OF SOVIET SOCIALIST REPUBLICS Petropavlovsk: RR OM/YL tlk, mx (Dawson CA 2/7 353) 4485 0911 Khabarovsk: RB w/ classical mx, MOB mx, TC, 1300 ID (Naylor CA) 4610 1246 Yakutsk: RR OM w/ folk mx, 1300 TC, ID, China QRM (Naylor CA 1/16) 4940 1250 Vladivostok: RR semi-classical mx, not RM relay (Brookwell CA 1/30) 5015 0731 Petrozavodsk: FR OM/YL tlk, mentions Karelia, folk mx (Peck NY 1/8) Khabarovsk: RR pop mx, IS, tlk (Oakley CA 1/29 423) 0605 5065 5990 1245 Hindbalothin III population or the strap playing PE mx (Oakley CA 1/31 434) R. Moscow via Orsha: SS pgm, ID, IS, under NAm svce! (Peck NY 1/17) 6020 1535 0230 7105 RM via unid site: EE ID, IS, nx, cmtry (Cereghin MD 2/3 544) RM via Yuzhno Sakhalinsk: EE question pgm, //s (Moore PA 1/12 211) 0157 7170 7260 0335 Magadan: P&P in CC s/off, Tikhy Okean s/on 0304, past 0330(Brookwell RM via Lvov: EE tlk on Rhodesia, in African svce (Cereghin MD 2/6) 9500 0255 9705 2025 RM via Serpukhov: EE OM ancr, nx, in World Service (Barry CA 1/15) R. Tikhy Okean via Nikolaevsk?: RR ballads, YL ancr, // 12020(Moore unid site w/ RR OM/YL w/ peasant-type mx (Smith CA 2/2 353) R. St. Peace & Prog. via Petropavlovsk: CC YL tik, ID (Smith CA) 9795 1700 9810 0738 0545 11910 0508 15245 EM via unid site: EE w/ IS, Peking? jamming (Cereghin MD 2/4 222) unid site w/ RR tlk, singing, ID, IS (Oakley CA 1/19 434) R St. Peace & Prog. via Vinnitsa: IS, EE OM w/ nx (Barry 1/15 444) 15380 1415 15450 1500 15520 1 500 Georgian S. S. R. RM via Tbilisi: EE nx by YL in WS (Barry 2/9 353) 17805 0400 kian CA) Kazakh S R Alma Ata: RR w/ tlk (Nikolich IL)(CC @ 2230 Donly SC)(@ 0128 Magha-1312 5035 <u>S. R.</u> 5 Frunze: RR/Kazakh w/ folk mx, // 5260, 9780 (Alma Ata), so well may be Alma Ata (Maghakian CA Kirghiz s 0155 4050L may be Alma Ata (Maghakian CA) <u>Tedzhik S.</u> 4635 020 <u>1k S. S. R.</u> 0204 Dushanbe: Tadzhik nx, mx, heard regularly (Maghakian CA)(Peck NY) R A D I O A S H K E N Uzbek S. 4850 0 S. R Tashkent: RR YL/OM w/ nx (Bodell OR daily 433) R. Tashkent: EE nx, cmtry (Harms UT 1/30 332) RT: EE w/ world, local, Soviet nx (Pasternak COT) 0205 6025 1403 9540 1200 HT: EE OM/YL nx, cmtry, some mx, // 6025, 9540 (Earhart PA 1/5 433) 9600 1205 2/1 433) UNITED ARAB EMIRATES R. Abu Dhabi: AA mx, nx, tent. ID, mentions Abu Dhabi (Ledford NJ 9620t 0515 VIETNAM Hanoi 1: CC w/ mx, xylophone, IS, tlk (Oakley CA) CC?, or Viet? 3997 1505 Hanoi 1: Viet tlk by YL (Nikolich IL 1/29) 4944 1257 Hanoi 1: Viet tlk by YL (Nikolich LL 1/29) H. Bac Thai: Viet tlk, mx, ID, \*1153-1400\* (Komai JAPAN 1/27 333) Tay Nguyen: u/lang w/ YL tlk, mx, UTE QRM (Naylor CA 1/29 322) Tay Nguyen: Viet chants, Oriental drum mx, bells, IS, anth. (Oakley V. of Vietnam: Viet tlk, folk mx, 1057\* (Carrier VA)(Yajko PA)+++++ VOV: FF then into EE w/ ID, sked, nx (Snyder NY)(@ 1540 Dubee CA)++ Hanoi 1: Viet children tlk, singing (Carrier VA)(Naylor CA Hanoi II: folk mx, ID, YL/OM orch. mx, tlk (Thompson CA 2/4 545) VOV: EE ID, sked, nx (Zink CA 2/4 333) 6880v 1221 7512 1 306 9837 1455 10010 1035 10040 2030 1135 1525 10060 10224 12035 1000 YEMEN ARAB REPUBLIC R. San'E': AA tlk, mx, singing, QRM de SRS? (Blaize LA 1/27 312) RS: Qu'ran, weak under RR (Bodell/Williams OR 2/17 212) 4852t 0420 4976nf 1525 RS: AA OM w/ exotic AA mx, speech, nightly (George TX 1/12 444) 0400 9780t PEOPLE'S DEMOCRATIC REPUBLIC YEMEN 7190 2050 DYBS-Aden: AA mx, tlk 2050 DYBS-Aden: AA mx, tlk, ID "Al Yemen Al-Dimucratia" (Ledford NJ 2/10

TR

# DEEANIA

出日田田代区田
AUSTRALIA C=Canarvon L=Lyndhurst S=Shepparton ) 4920 1402* ABC Brisbane: EE nx, IDs, Aust. nx, TFs, s/off (Rzepka WI)(Kege' MD 5995 1300 RA-L: world nx, Pac. Island svce (Mellinger NJ)(Rudolph AL)++++++++ 6005 1607 RA-C: world/Aust. nx, "Report From Asia" (Pimblett ALB 1/21 444) 6035 2200 RA-C: world nx, popular mx (Stone ONT 1/27 433)
6045       1015       FA-L: "Countdown" pgm, // 5995 (Lattemann WA 1/26 433)(Yajko FA)         6080       1236       FA-S: nx, "Mailbag" w/ Keith Glover, // 5995, 9580 (Yajko FA 1/14)         6090       0911       ABC Sydney: YL w/ classical mx (Norcross WESPAC 1/25 332)(Harms UT)         6140       1045       ABC Perth: pop mx, West. Aust. nx (Moore FA 2/8 343)         6150       0902       ABC Melbourne: mx "Hadio Symphony Orchestra" (Harms UT 1/31 332)
9570 0750 RA-S: "Mailbag", world nx, // 21570, 21680 (Mougenot FRANCE) 9580 *1100 RA-S: read letters, interviews (Pasternak ONT)(Piczczek NY)(Dilk NJ) 9595 1139 RA: mx, cmtry, "Australia Tonite", ID, nx (Smith FL) unlisted, reb. 9610 1515 ABC Perth: lite mx, C & W mx (Witte CA)(Schroeder WI)(Fisher MA)++++ 9640L 1430 RA-C: Indo nx (Perry QUE 1/21 434)
9660 0830 ABC Brisbane: classical mx, cmtry (George TX)(Maghakian CA)(Norcross 9670 0714 HA-S: pop mx, not Malta as rep. in 1/79 (Hadcliff IL)(Tacoma CA)++++ 9680 0820 ABC Melbourne: tlk on WHO (Hamrs UT 2/1 444)(Lattemann WA) 9760 0858 RA-S: EE W/ PNG TC, ID, Pidgin tlk, chants, pop mx (Miller CA 1/13) 9770 1312 HA-S: nx, mx (Yajko PA 1/25 344)
11705 1130 RA-S: pop mx, pgm, ID, tlk (Prath FL 1/14 332) ler CA) 11740 0805 RA-S: nx, "Int'l Rpt.", "Mx of R. Australia" w/ Helen Jackson (Mil- 11800 1905 RA-C: nx, mx (Pimblett ALB 1/13 444) 11825L 1450 RA-S: EE/Indo w/ disco pop mx, tlk, QRM (Oakley CA 1/6 423)
11865 1705 RA-C: EE OM w/ ID, world nx, mx (Schroeder WI 1/12)(Pompe BELGIUM) 11880 1700 RA-S: nx (Perry QUE 1/21 333) 15160 0455 RA-L: "Sports Magazine", ID, 0500 into FF (Johnson FL 1/28 333) 15230 0602 ABC Melbourne: nx, wx, OM ancr (Maghakian 1/24 242)
15240 0730* RA-L: world/Asian nx, "ABC Show Band", to Pacific (Carrier VA 2/4)+ 15260 0615 RA-S: "International Report" (Johnson FL 1/16 322) 15320 0416 RA-S: cmtry, mx, nx, ID (Skora ONT)(@0815 Dubee CA)(Smith FL)+++++ 15425 0230 ABC Perth: mx requests from <u>African</u> listeners, ID (Brookwell CA)++++ 17725 0310 RA-S: world nx, Australian nx (Yajko PA 2/4 243)
17795 0300 RA-S: ID, nx (Curtis TN)(Forbes TX)((@ 2210 Schroeder WI)(Mayer CA)+ 17870 0135 RA-C: pop mx pgm (Yajko PA 1/13 243) 21570 0950 RA-C: "Countdown" pgm, pop mx, to 0953 (Mougenot FRANCE 2/10 454) 21680 0401 RA-S: nx by YL, pop mx (Pimblett ALB 1/20 242)(Yajko PA) 21740 0250 RA-S: tlk on air flights (Valentine CA 2/8)(Oakley CA)(Witte CA)+++
COCK ISLANDS RADIO AUSTRALIA
5045 0544 RCI: EE w/ ID, TC, 0545-0615 "The World Tomorrow" relig. pgm, then slo Elvis mx to 0630 (Howard CA 1/22)(Maori @ 0535 Oakley CA)
GUAM 11850 1430 KTWR: EE YL ID, IS, relig. mx, tlk (Hodsdon MN 1/14 222) 15215 *1300 KTWR: IS, Viet s/on, YL ancr, into pop mx (Kegel MD 1/25 232) 17855 0000 KTWR: IS, EE ID, relig. pgm (Seymour NC 2/10)(Pettit IA)(Curtis TN)
NEW CALEDONIA 7170 0735 R. Nouméa: ENGLISH YL doing interview w/ local figures, entertainers etc., // 11710 (Newell BC 1/24, 26)(Zink CA on 1/18)that is news!!! 11710 0752 RN: usual FF w/ lite songs, YL tlk (Maghakian CA 1/21 343)
NEW HEBRIDES 3945 0959 NHBS: EE (NSB 0959*), s/off details, ID, island mx, off (Young CA
NEW ZEALAND 6105 0927 RNZ: EE 0M/YL tlk on education, ID EZL mx (Cucura PA)(Harms UT) 11945 0535 RNZ: OM w/ mx in National pgm (Smith CA 2/2 454)(Skora ONT) 15280 0406 RNZ: ball by ball cricket coverage, NZ vs. Pakistan (Macris MO 2/2) (Vollrath MO)(Snyder NY)(Perry QUE)(Franzis CT)(Curtis TN)(Smith CA)
17770 0415* RNZ: EE nx, wx, lite mx, s/off (Pimblett ALB 1/15 333)(Yajko PA)
PAPUA NEW GUINEA 3322 1226 R. No. Solomons: inst. mx (Nikolich IL 1/22) 3360 1249 R. Milne Bay: tlk in (Nikolich IL 1/22) 3925 0935 NBC Port Moresby: EE tlk, mx, TC, pop mx (Miller CA 1/28 444) 4890 0845 NBC: EE mx, ads, wx, 0900 nx (Jose MO 2/2 344)(Chinakos WA) (Fisher MA)(Koelble OH)(Radcliff IL)(Larson SASK)(Zavatsky CT)++++
SOCIETY ISLANDS 6135 0730 R. Tahiti: Tahitian pop/island mx (Thompson CA 1/21)(Maghakian CA) 11825 & 0508 RT: TT/FF w/ pop/ island mx (Carter LA)(Eaton WI)(George TX) 15170 (Johnson FL)(Oakley CA)(Thompson CA)(Dawson CA)(Smith CA)(Norcoss)

SOLOMON ISLANDS 5020 1115 SIBC: EE/Pidgin w/ ID, sports, pop mx, freqs, anthem, 1131* (Cucura PA 1/22)(@ 0815 Tacoma CA)(Harms UT)(Smith CA)(Norcross)
DATELINE
<u>AFGHANISTAN</u> - Radio Afghanistan's <u>domestic servic</u> e has been observed on new <u>6230</u> (1200–134) with programmes in Fushtu and Dariused by permission, BBCMS
<u>BANGLADESH</u> - Radio Bangladesh's <u>domestic</u> <u>service</u> is as follows in Bengali, excep English news (0145-55, 0605-10, 0835-45, 1205-10, 1530-45, 1705-10): (0030-0400) on <u>4890</u> , <u>6120</u> ; (0600-1000) on <u>7140</u> , <u>9550</u> ; (1030-1315) on <u>7240</u> , <u>9550</u> ; (1315-1710) on <u>4880</u> , <u>6210</u> the <u>external</u> <u>service</u> is: English (0445-0515), Arabic (0515-45 both on <u>15400</u> , <u>21685</u> ; Nepali (1115-45) on <u>7240</u> , <u>9720</u> ; English (1230-1300) on <u>15375</u> , <u>21670</u> ; Urdu (1400-1500) on <u>11765</u> ; <u>Bengali</u> (1645-1815), English (1815-1915), both on <u>11765</u> ; <u>15285</u> BBCMS.
IRAQ - the domestic service Voice of the Masses broadcasts in Arabic are now on: 6091.5, 7170, 9553 or 9576, 11781.5BBCMS.
<u>JAPAN</u> - major changes in the M-79 schedule for Radio Japan (effective 04 March) include, in the <u>regionals</u> : for Mideast and African service (1945-2115) <u>11940</u> re- places 7250; Europe 1 (0630-0830) <u>17710</u> replaces 17825; Europe 2 (1800-1930) <u>11855</u> replaces 11960, in the <u>General Overseas</u> Service to America <u>9505</u> now be- gins @ 0800, <u>15105</u> begins @ 1900, <u>17755</u> begins @ 2200, and <u>15105</u> begins @ 0500; the 16 mb. freq. for the GOS to Europe 1s now <u>17810</u> (ex 17795) begins @ 0600 <u>KUWAIT</u> - Radio Kuwait's <u>domestic</u> service on <u>9650</u> now has Farsi (Persian) (0800- 0955), Arabic (0955-1600), and Urdu (1600-1800)BBCMS.
LEBANON - Radio Lebanon's schedule, monitoured by Bob Donly, is as follows: <u>15180</u> in English, Arabic, French (1830-2030); <u>17710</u> in Fortuguese, Arabic, Spa- nish (2300-0100); <u>11925</u> inFrench, Arabic, English, Spanish (0230-0330)thanx Bob.
<u>MONGOLIA</u> - Ulan Bator's <u>domestic service</u> adheres to this schedule, in Mongolian unless otherwise stated: (2200-0100) on <u>4082</u> , <u>4763</u> , <u>4790</u> , <u>4850</u> , <u>4995</u> , <u>5053</u> ; (0100-1054), with Moscow's external service in Mongolian (0600-30, 0930-1000), and the external service in Chinese (0730-0800, Mon., Thur.), on <u>4790</u> , <u>4850</u> , <u>4995</u> , <u>5053</u> , <u>7262</u> , <u>11855</u> ; (1054-1500), with Moscow's external service in Mongolair (1200-45), and external service in Russian (1330-1400) on <u>4082</u> , <u>4763</u> , <u>4790</u> , <u>4850</u> , <u>4995</u> , <u>5053</u> the second programme's on <u>5980</u> , <u>6385</u> is (0829-1050)BBCMS.
PAKISTAN - Eadio Pakistan's external <u>World Service</u> (1700-1930) now has English (1700-30), on <u>9465, 11677</u> , in addition to Urdu and SylhetiBBCMS.
SRI LANKA - English on SLBC's external_service is currently (0030-0230) on <u>6005</u> , <u>9720</u> , <u>15425</u> ; (0230-0430) on <u>9720</u> , <u>15425</u> ; (1030-1130) on <u>11835</u> , <u>15120</u> , <u>17850</u> ; (1230-1730) on <u>6075</u> , <u>9720</u> , <u>15425</u> ; (1845-1945) on <u>11870</u> , <u>15115</u> , <u>17850</u> .BBCMS
YEMEN ARAB REPUBLIC - San'a is now using <u>4976</u> (ex 4853) for its domestic service (0300-0700, 1000-2105, Fri. 0300-2100), // <u>9780</u> BBCMS
<u>CLANDESTINE/CAMBODIA(KAMPUCHEA)</u> - Voice of the Kampuchean People broadcasts from Vietnam in Cambodian (2200-1700) on <u>7350</u> , 9753, and Phnom Penh 4908, 6088 Voice of Democratic Kampuchea broadcasts from China in Cambodian (0400-55) on <u>11725</u> , <u>17705</u> ; (1200-55) on <u>6825</u> , <u>11600</u> , <u>11990</u> ; (1500-55) on <u>15270</u> ; (2300-55) on <u>9470</u> , <u>11600</u> , <u>15600</u>
<u>PUBLICATIONS</u> - <u>USSR High Frequency Broadcast Newsletter</u> , published by Soviet DXpert Roger Legge, Box 232, McLean, VA 22101 USA, is now at a subscription rate of \$3 for 10 issues (approx. one year); still the best bargain around!, the February issue (#18) would be a good one to start your subscription with since it has an extensive list of Soviet transmitter sites/frequencies
GOOD GUYS TO MEET AGAIN - there will be another get-together for Pacific North- west DXers, at my home, 5230 S. E. 48th, Portland, (503) 771-8804, on Sunday, March 25, from 12:30 P.M. on, all MW, SWBC, and utility DXers are welcome to come and join in the fun, for more info contact me, please enclose a SASE, thanx.
Thanx so much your support of A/O this month, because of the overwhelming number of loggings from 100 reporters we had to cut rather heavily, hope we didn't leave out your favourite loggings. A special welcome to all new contributors we hope that you will be with us each month. A reminder to be sure and put your name on <u>every</u> logging, if possible use the SPEEDX report forms. Still several people sending me loggings for other columns. Hoping that the disas- trous winds and ice of January are over I think I'll go up on the roof and put up my antenna again, just in time for the solar eclipse, 73, 202/23/79

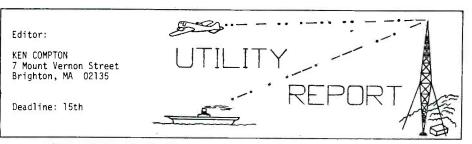


FINLAND, RF, EE: 0800-0930(Sun) 11755 Eur;21495 F East/Aust. 0930-1000 11755.15270 Eur: 21495 F East/Aust. 1300-1330 11755,15265 Eur;15210 N America: 15265 S Africa. 1330-1430(Sun) 11755,15265 Eur;15210 N America; 1830-1930 Aust/N Zealand 11875,15235 (60'EE). 15265 S Africa. 1300-1430(Sun) 6120 N & C Europe. 1430-1500 15265 E Eur/M East;6120,11755 Eur; 6120 N & C Eur; 15210 N America. 1930-2000 6120,9585,11755 Europe. 2130-2200 9585 Europe; 9585, 11910 S Amer/NW Af. 2330-2400 9565,11800 N America. Hardester, WcWherter. FRANCE, RFI, EE, "Paris Calling Africa": 15360,15425,17735 to W Afr; 15300,17850, 21580 C & S Afr; 15210,17760,17860, 21620 E Afr/Indian Ocean; 11845,15360 N Afr. Prgm is @ 1700-1800. Also, FF is brdcst to N America @ 1200-1705 on 17775,21595, 21645. T. Smith GUAM, KTWR, EE: 0000-0130 17855 to SE Asia. 1000-1057 11810 Japan. 1430-1500 11850,15215 SE Asia. Hardester. HUNGARY, R BUDAPEST, EE thru March: 0200-0230(Tu-Sun) 6000,6105,9585,9833, 11910,15220 to N America. 0300-0330 6000,6105,9585,9833,11910,15220 to N America. 1030-1100 7200,9585,9833,11910,15160,15220 Aust/N Zealand/Japan. 1200-1220(M-F) 6110,7155,9585,9833,11910, 15160 Europe/Scandinavia. 1430-1500(M-F) 6110,7200,9585,9833,11910, 15160 Asia. 2100-2130 5980,6025,6110,7200,9655,9833 Eur. "Calling DXers & Radio Amateurs": 0400-0415(Wed & Sat) 6040,6105,9585,9833, 11910,15220 to N America. 1515-1530(Tu & Frí) 5980,6025,6110,7215,9585, 9833 Europe. Dekeyser. IRAQ, R Baghdad, brdcsts in EE @ 0300-0400 & 2130-2230 on 9745 & 11925. Ewing. ISRAEL, IBA, EE: 0500-0515 9833\*,11638\*,11655\*+,21495+. 1200-1230 11655\*,15405\*,15530#,17685\*,21495\*. 2000-2030 9009+,9425+,9815\*,11655\*,17685+. 2230-2300 7412\*,9435°,9815\*,11655\*. \*=N America/W Europe, +=Aust, #=S & E Asia, +=Africa, °=ECNA/Caribbean. Worrel. ITALY, RAI, EE: 0100-0120 9575,6010 to N America. 0350-0410 9630,9710,11905 S Asia. 0425-0440 6075,7275 to Mediterranean. 1935-1955 7275,7290,9575 Great Britain. 2025-2045 6050,7290,9575 Near East. 2200-2225 5990,9710,11905 Japan. Kusalik. JAPAN, NHK, Regional Svces: 30'RR). 2400,FF 0030,EE 0100). 0300-0430 to Europe 9605,11960 (30'GC,30'EE, 0400-0630 (in the same order of langs.). 0445-0615 M East/N Africa 7250,9700 (30' Arab., 1130-1400 (in the same order...). 30'EE,30'FF). 0845-0945 N America 15270,17825 (60'EE). Snoopy Works for Peanuts

JAPAN, continued 1000-1200 N & L America/Hawaii 15195,17725, 17825,21640 (30'JJ,60'EE,30'SS). 1530-1730 Europe 17825,21640 (15'Swed,15' Ita1,30'GG,30'FF,30'EE). 1945-2115 SE Asia 9675,11875 (30'Indonesian, 30'EE,30'Malay). 2330-0230 S Asia/Africa 9670,11705 (30'Bengali, 30'Hindi, 30'Urdu, 30'Swahili, 30'EE,30'FF. General Svce (half EE, half JJ) 17755. 0000-0030,2200-2230,2300-2400 9585,15195,7 0100-0130 15310,17755,17880. 17880 0200-0230,0300-0330,0400-0430 15105,15310.7 0500-0530 9505,15310,17880. 0600-0630,0700-0730 9505,17795,17880. 0800-0830,0900-0930 9505,15195,17795. 1000-1100,1100-1130 9505,9585,15195. 1200-1230,1300-1330,1400-1500,1500-1530, 1600-1630,1700-1730,1800-1830 9505,9585, 11815. 11815. 1900-1930,2000-2030,2100-2130 9585,15105, Oakley, T. Smith. KOREA, D.P.R. (NORTH), R Pyongyang, EE: 0600-0800 9420,11535 to Europe. 0800-1000 9420,11535 SE Asia. 1100-1300 9977,11535 Americas. 1300-1500 9977,11885(+1370) SE Asia. 1500-1700 9977,11885(+1370) M East/Africa. 1700-1900 9977,11885 M East/Africa. 2000-2200 6576,9420 Europe. 2300-0100 9977,11535 Americas. Hensley. KOREA, REP. OF (SOUTH), R Korea: English 0530-0630 9870 Europe. 0630-0700 9640 N Amer. 0830-0900 9525 nd. 1000-1030 9580 L Amer. 1130-1200 7275 nd. 1330-1400 9870,11965 Europe. 1600-1630 7550 M East,7275 nd,9640,9720 both N America. 1800-1830 9720 N America. 2000-2030 7550 Europe, 11860 Americas. 2300-2330 7550.9640 Europe. French 0430-0500 9870 Europe. 1300-1330 9870,11965 Europe. 1700-1730 9720 N America. 2030-2100 7550 Europe. 2230-2300 7550,9640 Europe. Spanish 0500-0530 9870 Europe(Spain). 1030-1100 9525 nd,9580 L America. 1230-1300 9870,11965 Europe(Spain). 2030-2100 11860 Americas. 2130-2200 7550 Europe(Spain). 2330-2400 7550 Europe(Spain). Kusalik, Oakley. KUWAIT, RK, EE, thru March: 0500-0800 17740 to E & SE Asia. 1800-2100 9580,12085 Europe, E & SE Asia. Hook. LAOS, Lao National Radio, on 7145(& 1030): 2300-0130 (Thai @ 2300, Viet 2330, Khmer Kusalik. We let our blessings get moldy and then call them curses ...

LEBANON, R Lebanon. 1830-2030 15180 to Africa (EE, Arabic, FF). 2300-0100 17710 to S America (PP, Arabic, SS). 0130-0330 11925 to N America (FF, Arabic, EE, SS). All freqs have been heard in S Carolina. Donly. MALAYSIA, V of Malaysia, brdcsts in EE to N America @ 0625-0855 9750,12350,15295. Zavatsky. MEX1CO, XERMX (Radio Mexico), brdcsts in SS @ 2155-0335 on 5985,9705,11770,15385. Hardester. NEW ZEALAND, RNZ, EE: Pacific Svce 0200-0530 15280. 0425-0715 11945. 0540-1115 6105. 1700-2005 11960. 1700-0145 15345. 2015-0415 17770. Aust. Svce 0730-1115 6105. Hardester, Koelble. PAPUA NEW GUINEA, R Eastern Highlands brdcsts in Pidgin, Gahuka & Kafe @ 0700-1300 & 2000-2200 on 2410. Address is: Box 311, Goroka, Papua New Guinea. Kusalik. PHILIPPINES, R Veritas, now signs on @ 0030 instead of 0000. Miller. SEYCHELLES, FEBA, EE: 0400-0445 11800 to East Africa. 0700-0800 15160 to S Asia. 1515-1630 11855,15325 to S Asia. Hardester. SWAZILAND, TWR: English 0630-0830 3275,9530 to S Africa. 0845-1035 5055,11910 S Africa. 1400-1615 9530 S Africa. 1830-2000 9720,11910 E & C Africa. 2000-2115 7280 S Africa. French 1600-1615(Sun-Thu) 11955 Malagasy. 1615-1700 11955 Malagasy. 2115-2200 11955 E Zaire. German 0600-0630 3275,9530 S Africa. 1800-1830 7280 S Africa. Kusalik. SWEDEN, R Sweden, EE to 6 May: 0030-0100 11905H to N America. 0230-0300 9695H,11705K to N America. 1100-1130 9630K to Europe,21690H to Australia. 1230-1300 15130H E Asia, 21690K Africa. 1400-1430 21615H N America, 21700K S Asia. 1600-1630 6065K Europe, 15240H M East. 1830-1900 6065K Europe,15240H Africa. 2100-2130 9605K M East, 11845H Africa. 2300-2330 9695K,11705H both N America. Also SSB Transmissions in Swedish: East. 0500-0830 21550V S Asia. 0930-1200 21555V Mプ 1200-1600 21555V M East. 1600-1800 21550V Africa. 1800-2130 15190V Africa/Latin America. H=Horby,K=Karlsborg,V=Varberg. Grenier, McWherter, Zilmer. Did you ever notice when someone you know is nominated for high office how you're torn between local pride and fear for the country? -Louis Field

SWITZERLAND, Swiss Radio Int., has changed their N American Brdcst @ 1315-1515 from 21630 to 21570. This due to QRM from the BBC on the same freq. Stein. UNITED KINGDOM, BBC, EE to N & C America: 5975 @ 2245-0730. 6120S @ 2300-0430. 6175W @ 2000-0730. 6195W @ 0900-0915,1100-1330. 7325 @ 2300-0330. 9510 @ 2115-0330.0445-0915W,1100-1330S, 9580 @ 2300-0330A. 9590 @ 2300-0030S. 11750 @ 2000-0030,0030-0330C. 11775 @ 1100-1330W,1500-1745S. 11910 @ 2300-0430. 11955 @ 0545-0915. 15070 @ 2000-0230. 15215 @ 1100-1330. 15420 @ 2115-0030. 17830 @ 1500-17458,2000-2115W. Thru March. Zilmer. U.S.S.R., R Kiev, EE: 0030-0100 7150,7215,11690,11790,15100 to N America. 0300-0330 5900,7215,7360,7400,9580, 11860 to N America. 1930-2000 5970,6020,7360 to Europe. Hook. R Tashkent, brdcsts in EE @ 1200-1230 & 1400-1430 on the 31,49 & 50 mb's. Macris. R Moscow, changes: N American Svce(2300-0400),9765 Lvov replaces 7115. Pac. Coast\_Svce(0330-0730),9500 & 15140 replace 6150 & 9610. Also, a new brdcst in EE for S & SE Asia has been added @ 1400-1430 replacing 1600-1630 on 7270 Kenga, 9695 Frunze, 9795 Serpukhov, 11820 Frunze, 15385 Chita?, 15410 via UHN. moscow. The following 2 items are from BBC Monitoring Svce, are copyright, and therefore used by permission: Pakistan-RP's brdcst to the UK @ 1700-1930 has EE @ 1700-1730, saying it's for listeners in the UK,W Eur, Turkey & S Africa. Sri Lanka-SLBC has the following EE prgms: 0030-0230 6005,9720,15425 to all of Asia. 0230-0430 9720,15425 to all of Asia. 1030-1130 11835,15120,17850 to Japan/SE Asia. 1230-1730 6075,9720,15425 to all of Asia. 1800-1945 11870,15120,17850 to Africa/ Middle East. \*\*\*\* I hope that winter is treating you kind so far. If you get snowed in, at least you've got something to do, right?hi. Here in Lawrence we had 32" of snow in January, but that's nothing compared to poor ole Chicago, and other points north of here! All we did was lose "Snail" Mail svce for a few days. Since I mm going to be in indiana the middle of next month, Jim Mayer has agreed to do April's column. So, send your April skeds to Jim. His QTH is:1139 La Senda Dr., Fullerton, California 92635. Have a great month of DX, and I'll 735, Oaka 14/2 C U N 60!



SOUTH KOREAN COAST STATION FREQUENCIES: This list of freqs for Seoul marine stations was compiled by Mr. Kim Ouk Kwoan of South Korea and forwarded to us by one of our distinguished Japanese SPEEDX ute DXers, MIKIO KUWAYAMA-JAPAN.

HLF 4273, 6344, 8484, 12916.5, 17079, 22395 HLG 4308, 6451, 8473, 12935, 17118, 22482 <u>HLJ</u> 8497, 12727, 16910 <u>HLO</u> 8577, 12843, 16990 2712 <u>HLX</u> 13028 HLW 8636, 13005.5, 17130 HLW2 12923 HLW3 12712

UNIDE ID'd: In the February "Utility Report" VXO listed as heard on 22490a is probably 4X0 on 22491 says RICK MATTHEW-BC, and adds that MGJ is the Royal Navy, Faslane, England on 2768 according to the ITU List of Callsigns. Rick also thinks that the KRS5Ø on 5429a was probably KR35Ø on 5426. I hope that all SPEEDX Ute Report readers who can identify any of the stations listed in our UNIDENTIFIED section will send the IDs to us-Rick of course does this faithfully, for which we're grateful. If anyone else can ID any of the others PLEASE let us hear from you!

ANTARCTIC VOICE MARKER: The vm of VNJ, Casey Post, Antarctica was recently sent to us by FREDERIC J. OSTERMAN-OH: OM: "This is VNJ, Casey Post, Antarctica transmitting a test message for the purpose of circuit identification and adjustment by stations scheduled for communications with Casey at this time." Thanks, Fred!

Z-SIGNAL LIST CONTINUED: This list is a consolidation of lists for-warded to us by JIM BOEHM-TX, RICHARD SLOVER-TN, JOOST DENISSEN-HOLLAND, and WERNER MUSTERLE-FRG. It includes U.S. Army and Navy, NATO, European Militery and U.S. commentatel usage S-U.S. Militery S-Divergen Mil Military, and U.S. commerical usage. \*U.S. Military #=European Mil. Mr. Yuk Tong Kam, SPEEDX ute DXer from Hong Kong and a professional communications officer has sent us a copy of the ITU Z-Code which we will print here as soon as space permits, and which will also be included in \*ZFI Reply to msg? No reply.
 \*ZKD Take
 ZFK Revert to FSK.
 \*ZKE I re \*ZKD Take control of net. \*ZKE I report into net. \*ZKF Station leaves net temporarily \*ZKJ Closing down (until ). ZKO REV 2RT TO ON/OFF KEYING ZFO SIGNALS FADED OUT. ZFQ/x Frequency shift your sig 18 cps. ZFR Rapidity of fading 1-5 ZKQ Say when ready to resume. \*ZFR Cancel transmission # . \*ZKS What stations keep watch on \_ ZFS Signals are fading slightly. ZKW Keying weight is (%) \*ZGB Send. (Answer.) ZLB Give long breaks please. ZGF signals good for (wpm) ZLD We are getting long dash. \*ZGF Make call sign more distinct ZLL Distorted landling control sigs ZGP Please give priority. ZLP Low (minimum) power ZGS YOUR SIGS GETTING STRONGER ZLS WE ARE SUFFERING FROM ZGW YOUR SIGS GETTING WEAKER LIGHTNING STORM ZHA How are conditions for ZMG Magnetic activity auto-reception? ZMO STAND BY MOMENT ZHC How are your receiving ZMP Mispunch or perforator failure conditions? ZMQ Stand by for ZHM/x Harmonics from transmitter ZMU/x Multipath making mark bias ZHS Send high speed auto (WPM). ZNB No breaks, we send twice. ZHY We are holding your \*ZNB Authentication is ZIM Industrial or Medical inter-ference (1-5). ZIP Increase power. ZNC NO COMMUNICATIONS WITH \*ZNC All stations authenticate. \*ZND You are misusing authenticator. ZIR You have strong idle radiation ZNG Rovg conditions no good for code ZIS Atmosphereic interference (1-5) ZNI NO CALL LETTERS (ID) HEARD. ZJF Frequency jumping (1-5). ZNN ALL CLEAR OF TRAFFIC "ZIA I am controlling station. ZNO Not on the air. \*ZKB Permission nec before xmting. ZNR Not received.

USCG COMMUNICATIONS STATION VISIT - The commsta of USCG Group Mayport FL wa recently visited by TIM STARR-GA who sends this report: There are 4 VHF-FM motoraola radios with remote sites for the xmtrs at St. Simons, GA, Jax, FL, Flagler Beach FL, & Cape Canaveral. And also a HF receiver-transmitter w/3 remote guards: St. Simons, Cape Canaveral, & Jacksonville Beach, with permanent guards on 2182 & 2670.

Mayport has 3 radioteletype circuits (1) small stations (2) to District Office, Miami (3) National Weather Service in Jax.

Other HF freqs used by Mayport are: 2638, 2670, 2678, 2691 & 5680. The ships regularly under Mayport guard are: NFDU Point Roberts, NSOC Spike, NRQW Sweetgum, NJGJ Point Charles, NCRG Courageous, and NFYN Smilax. The latter is based at St. Simons.

NEW SPEEDX UTILITY GUIDE: We're still looking for material for the next edition of the SUG. Anything you have that might be of value is welcome. AND we are particularly looking for xeroxes of your best QSLs! ALSO New Addresses for the Station Address section are needed.

<u>ARGENTINA</u>: Gen. Pacheco R. 4394.6 PFC in 45d for 3 IRCs (Pagano-DC) LPD Gen. Pacheco R. 4757.7 date/freq ltr 27d for IRC(rtrnd)(Webster-AL) <u>AUSTRALIA</u>: VNG Lyndhurst 7500. F/d QSL fldr in 5w for IRC (Kapinos-MA) <u>AZORES</u>: CUM2Ø USAF Lajes Field 8989 f/d AF Comm Svc cd 26d ms (Ewing-IL) <u>BELGIUM</u>: OST RTT Ostend 6340 baw cd f/d in 84d for IRC (Blaize-LA) (ANADA: VFG Gender Agnedic 8854 data-time ltr v/sked 0.05 VFC(Calcored Vic) CANADA: VFG Gander Aeradio 8854 date-time ltr w/sked 91d IRC(Coleman-MA) FRANCE: FFL S. Lys R. 6421.5 rpt form stamped & sgd 96d 2 IRCs(Blaize) FFL4 S. Lyrs R. 8522.5 f/d ltr in 29d for IRC (Proom-ENGLAND) FFL4 S. Lyrs R. 8522.5 f/d ltr in 29d for IRC (Proom-ENGLAND) HAWAII: KVM7Ø Honolulu VOLMET f/d cd in 10d for no rp (Koelble-OH) ICELAND: TFA PTT Reykjavik 12175 f/d color cd 41d for IRC (Koelble-OH) Same in 198d for report on 8690 khz & 3 IRCs (Pagano-DC) JAPAN: JCU NT&T Choshi R. 12878 cd in 27d for 3 IRCs (Pagano-DC) MADEIRA: CUB CPRM Funchal 8461 QSL(cd or ltr Frank?)14d 3 IRCs(Pagano-DC) NEW ZEALAND: ZLK USN Christchurch 8997 PFC & ltr 42d ms (Russell-IL) PAMAMA CZ: AHF Albrook AFB 17972 f/d AFCS cd 30d for ms (this rpt was re a TAILPIFE FOXTROT xmen re which I rostd info but got none) (Russell-IL) PORTUGAL: CUL7 CPRM Lisbon 8490 "QSL" in 24d for 3 IRCs (Pagano-DC) FUERTO RICO NAU FT. ALLAN 20650 RTTY f/d ltr in 25d for IRC (Woods-CK) SENEGAL: 6WW Fr. Navy Dakar 8992a PFC stamped, f/d 5m IRC (Blaize-LA) VEPIECATION (CAPD) UPD / FIGS BLAN (ALAN

	VERTICATION CARD
	WE CONFIRM YOUR RECEPTION OF OUR RADIO TRANSMISSION ON THE
	12 MHZ BAND AT 0728 GMT ON 17TH JULYTH 1978. THE DETAILS OF OUR 12 MHZ I EMISSION ARE AS FOLLOWS.
	CALL SIGN XSX MARITIME COAST RADIO STATION -STATION OPEN TO PUBLIC CORRESPONDENCE-
	FREQUENCY 12695.5KHZ
	POWER OF 2.5KW
	EMISSION AT -CRYSTALLINE-
	ANTENNA USED HP NON-DIRECTION
	ANTENNA LOCATED 121.42.00E 25.12.00N
	SIGNALS RCVD JCQ CQ CQ DE XSX XSX XSX QXS 8/12MHZ K
	MARITIME COASTAL RADIO STATION
	KEELUNG RADIO 交通部基隆電信局
	KEELUNG TAIWAN
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U.S.A.: WLC Central R/T Rogers City MI 2514 f/d ltr 10d ms (Koelble-CH) NMB USCG Charleston SC PFC & pers ltr in 9d for "first report he could remember" & SASE (George-TX)

NMT USCG Boston R. 2670 color cd, USCG info book, sked 7d ms(Koelble) NMQ USCG Long Beach CA 2670 FFC in 7d for ms (Brick-TX) NMC11 USCGAS Humboldt Bay CA 5692 PFC in 8d for ms(rtrnd) (Brick-TX)

 ADDRESS: USCGAS - NMC11 USCG GROUP HUMBOLDT BAY McKinleville CA 95521 KSF7Ø Oakland VOLMET 8903 8903 f/d ltr in 7d for ms(rtrnd) (Koelble-OH) WNU TRT Slidell R. LA f/d cd in 32d for IRC (Proom-ENGLAND) URUGUAY: CWA Cerrito R. 16865 cd in 722d for ms (Pagano-DC) CUBA: NAW31 AAC&R Guantanamo 13750 f/d map cd in 67d for ms (Chinakos-WA)



DEPARTMENT OF THE ARMY U.S. ARMY STRATEGIC COMMUNICATIONS COMMAND LONG LINES BATTALION (DCS). OKINAWA APO SAN FRANCISCO 96331

ARTLY METER TO SCCP-O-FOF

10 February 1969

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Mr. Fred Osterman 436 North Forest Road Williamsville, New York 14221

Dear Mr. Osterman:

Received your letter dated 4 January 1969. We certainly are glad to bear that the United States STRATCOM transmitter is being received with some intelligibility in Williamsville, New York. We had a similar queery from Cheektowaga, New York on 14 January. It seems that this is the time of the year that we are getting through to your area.

The USASTRATCOM transmitter site is located at Tengan on the Island of Okinawa. The transmitter being utilized on this date was a Collins FRT22 on a frequency of 20.640 MHz with an approximate average power of 20 KW.

Sincerely yours,

ISG

NCOIC, Tech Control

- SHIPS: CGC Cape York NEZV 2678 From 10d for norp (Brick-TX) NELX USCGC Katmai Bay WTGB 101 5318khz PFC in 8d for ms (Brick-TX) NAAD CGC Glacier 6506.4 PFC & folder in 50d for ms (Brick-TX) NPGA CGC Cape Upright 6506.4 PFC & folder 77d norp (Brick-TX) ADDRESS
- NPGA CGC Cape Upright 6506.4 PFC & folder in 506 ifor ms (Brick-TX) ADDRESS: P. O. Box 13704 Savannah, GA 31406 (VS: D. W. Broughton, LtJG, C. O.) GBCF liner Pacific Princess 12330 PFC 42d air IRC (Mason, A.-ONTARIO) KDGA SS Sam Houston 6521.9 PFC in 30d for MS (Hickman-OR) GNOY MV Gambada LNG carrier 12330 PFC&ltr ms(rtrnd) 70d 1kw(A.Mason-ONT) GTEE MV Suecia Team bulk carrier 12330 PFC&ltr 83d air ms (A. Mason) PCOT MV Amersfoort cargo 12330 PFC&ltr 41d air for IRC (A. Mason) NRPR USCGC Conifer 12432 PFC in 13d for ms (Brick-TX) ADDRESS:
- c/o USGG Base Fort Macon Atlantic Beach NC 28512 DEKJ "Adamsturm" oil supply ship 16491 PFC 114d gir IRC 400w(i.Mason) 9VOA MV Neptune Topaz containership 22307 ltr 49d for IRC (A.Mason-CNT) 4XML MV Yafo cargo 16470 PFC & ltr 70d for IRC. 1.5kw. (A. Mason) MV Zapata Pathfinder fishing vessel 16580 PFC&photo 35d (A. Mason) PJKA MV Diloma tanker 22012 PFC 23d air for IRC. 1.2 kw (A. Mason) GOYF Cardigan Bay containership 22015.5 PFC&ltr 105d air ms(A. Mason) MZI USS Myles C. Fox destroyer 2716 ltr&photo 11d ms 30w(Holbrock-MD) Diamond M-99 WZE9776 drill rig 8200 PFC 20d for ms (Holbrock-MD) DGG Breehelle cargo 8270 ltr&photo in 47d for IRC 400w (Holbrock-MD) GYME Anco Duke chem tanker 16726 PFC in 65d for IRC. 400w (Holbrock) GHFE City of Lichfield cargo 22230 ltr in 39d for IRC. 400kw(Holbrock) GTOW "Sugar Carrier" off Adem 22230 2p. ltr 37d for ms 1.5kw (Holbrock) GUE Post Challenger chem tanker 22240a PFC 67d IRC. 1.5kw. (Holbrock) AIRCRAFT: Teal 22 4746 FFC in 14d for ms (Chabak-AZ)
- Lark 51 8967 PFC in 20d for ms QTH: east of Japan. 100w. (Chabak-AZ)

CGC "Polar Star" 'Copter 10 HH-52A 8997 QTH McMurdo Sound Antarctica PFC in 22d for ms, Avn Det 73"Polar Star". 400w. (Chabak-AZ) TC807 KC-130F USN Sq VQ-3 NAS Agana Guam 8989 PFC 10d ms 400w(Chabak) CG#1353 & CG#1464 5692 PFCs in 9 & 7d for ms (Brick-TX) CG#1340 Eliz. City NC 5696 PFC in 73d for ms (Brick-TX) CG#1350, 1416, 1494, 5784 - 5696khz PFCs 6 to 9d for ms (Brick-TX) XDØ3 8997 PFC + Antarctica Sq history 28d for ms (Russell-IL) Swan 11 (Guam) WC130E 11176 PFC in 20d for ms. 100w. (Chabak-AZ) AF Rescue 50993(McClellan) HC130 11182 PFC 49d for ms. 400w. (Chabak-AZ) Orion 76 QTH: W. of L.A. 11194 PFC in 12d for ms. 400w. (Chabak-AZ)

SUBMITTING LOGGINGS: P L E A S E do not send loggings on paper wider than about 8 to 9 inches -- wider paper makes them very difficult to collate after they are cut into strips for sorting. It makes it much easier if your loggings can be cut into strips 1/2 to 3/4" wide and about 8 or 9" long. And if you cut them into strips for me, it makes it even easier-my thanks to those of you who regularly doi And please do not use ditto <u>marks</u> in your loggings---they're meaningless after the loggings are cut! Doublecheck your loggings to see that each has a date, time, and freq clearly indicated. Many loggings are discarded each month because they lack vital information. And be sure your name & state, e.g. Carter-DC, is on each individual logging!

Each month we receive at least 3 times as many loggings as we have room to print. So please send only your best loggings and leave the oft-heard, easily logged stations to the beginners unless there's something unusual about the xmsn you heard.

1	All freqs	in <u>k</u> hz	
ALASKA:	5519	1357	NORTH AMERICA
ATTADTA:	8628.5	1357 0736	Anchorage VOLMET KIS7Ø OM aero wx ID AM(Thompson-CA) NOJ USCG Kodiak CQ mkr CW (Lowe-AR)
	8903		KIS7Ø Anchorage VOLMET OM EE aero wx AM (Dawson-CA)
CANADA:	2582		VFN CCG Montreal OM EE/FF marine wx SSB(Zavatsky-CT)
		2348	CFH Navy Halifax R. NS CQ mkr CW (Moody-ME)
			VFG Gander VOLMET OM EE aero wx AM (Morrison-NC)
		0434	CCG Victoria Rescue BC OM wkg Rescue 456 (Chabak)
	8868		VFG Gander VOLMET wx AM (Webster-AL)
	14670	1444	CHU Ottawa OM EE/FF time sigs not GMT ! AM(Thompson-C
U.S.A.:	2510	1119	WLC Central R/T Rogers City MI EE wx AM(Koelble-OH)
	2522	0020	WOX NY Marine Op YL EE marine wx SSB(Zavatsky-CT)
	2558	0025	WAQ ATT Oceangate R. NJ marine wx SSB (Zavatsky)
	2670	0354	NCF USCG Miami Beach OM EE marine wx USB(Koelble)
		0445	MAF USCG Boston R. EE marine wx. Asked for recep-
			tion reports, gave address. USB (Koelble-OH)
		0600	NMY41 USCG Shinnecook NY Securité tfc USB(Starr-GA)
	10.07 6	0620	NMA10 USCG Mayport FL YL EE NoMar USB (Starr-GA)
	4023.6	0715	WAR US Army Ft. Detrick MD tfc relay LSB(Webster-AL)
	4145a	0634	KMB830 Avondale Shipyards(QTH?-Ed.) tfc wkg KHLQ
	4746	0327	"North Slope" USB (Brick-TX)
	5606a	0304	AFH3 McChord AFB WA wkg TAC sta OM EE USB(Bochm-TX) WSY7Ø NY aeradio OM EE wkg KLBC LSB (McWherter-MD)
	5270a	0804	WAR US Army Ft Detrick MD bulletin tfc CW(Boehm-TX)
	5212a	0428	WAR US Army Ft Detrick MD V-CQ mkr CW (Boehm-TX)
	5652	0215	WSY7Ø NY VOLMET OM EE aero wx AM (Rosewarne-CA)0312
	5052	0215	(McWherter-MD) 0347 (Morrison-NC) 2306 (Blaize-LA)
	5680	0141	AFH39 USAF March Rescue CA w/Rescue 384(Devendorf)
	5870	0636	NAR USN Key West marine wx CW (Boehm-TX)
	5696	0131	NOQ USCGAS Mobile AL helicopter tfc USB(Coleman-MA)
	6219m	0000	W28 YL clg "First Cabin" river tugs USB (Mappin-WA)
			Columbia R. tugs active again after ice, says Russ.
	6435.5	0325	WPA RCA Port Arthur TX CQ mkr CW (Pettit-IA)
	6750	0510	AFE8 MacDill AFB OM EE wkg Strum Ø7 USB(McWherter)
	8283a	0450	WJK Miami FL OM EE wkg tug USB (Fitzgerald-RI)
	9905	0834	WEH79 ATT Manahawkin NJ OM EE vm LSB (Dawson-CA)
	11194	1937	Lockheed Los Angeles OM wkg Orion 76 USB (Chabak-AZ)
	12022.5	1615	KKN5Ø State Dept Intell Svc QRA mkr CW(Blaize-LA)
	12215a	1625	KPA65 DCPA Denton TX OM EE vm USB (Russell-IL)
	12430	2058 2100	KEQ Corpus Christi TX OM EE wkg 5LKO USB (Brick-TX)
	12432a	2110	KDR416 Pensacola YL EE wkg "Ocean Sun" USB(Brick) NSTL Natl Data Buoy St Louis wkg "Conifer"(Brick)
13	≥452a ≥17965	2138	Rockwell Flight Test Cedar Rapids wkg a/c(Russell)
1.3	13051.5	2330	WPD Tampa Marine R. CQ mkr CW (Alexander-IA)
	15015	1800	AFG37 Scott AFB IL w/acft patches USB (Holmes-TX)
	10010	1000	Arey: Boott Arb IL W/Acit Datones obb (notmes-ik/

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#### CARIBBEAN BERMUDA: 16726.4 1859 VRT C&W St. Georges V mkr CW (Blaize-LA) BRIT.VIRGIN IS .: 16595a NDJ C&W Tortola OM EE wkg WGK USB (Brick-TX) 5303 1305 2952 0051 CUBA: "W" Beacon Havana CW (Boehm-TX) Gonaives Aeradio OM EE wkg Aeroflot fltAM(Lowe-AR) FFP2 PTT Fort de France CQ mkr CW (Alexander-IA) FUF French Navy Fort de France V mkr CW(Pettit-IA) 8PO C&W St. Philip ID mkr CW (Pyne-MD) HAITI: MARTINIQUE:4263 0515 21480 2030 BARBAD0312710 5550 PUERTO RICO:8292.8 0735 WGW San Juan OM EE wkg tugs USB (Webster-AL) NMR26 USCG "Puerto Rico Air" wkg 1470 USB(Chabak-CO) 0958 5692 CENTRAL AMERICA TIM R/C San Jose ID mkr CW (Pettit-IA) COSTA RICA:8478 2245 0630 "RAB" Rabinal aerobeacon CW (Howell-CA) GUATEMALA: 1613 AHF Albrook AFB OM EE wkg Burnt 79 USB (Chabak-AZ) NBA USN Balboa CQ mkr CW(Alexander)(Coleman) PANAMA CZ:8993 0238 17136.8 1430 SOUTH AMERICA ARGENTINA:8758.5 0510 Pacheco R. OM SS vm w/mx USB (Mellinger-NJ) Gen. CPP67 USAF La Paz OM EE wkg AHF4 USB (Russell-IL) BOLIVIA: 20885 BRAZIL: 8847 2058 Rio Aeradio OM EE wkg Clipper 204 USB (Lowe-AR) PWZ USN Rio V mkr CW (Osterman-OH) PWZ USN Pernambuco V mkr CW (Pyne-MD) 0532 12753 2150 17162 0020 CCS Navy Santiago V mkr CW (Thompson-NM) CCS Navy Santiago V mkr CW (Osterman-OH) CHILE: 4380.5 0300 17420 2344 "MDE" Medellin aerobeacon CW (Osterman-OH) COLOMBIA: 1690 0243 13087.5 2300 HKB ENTEL Barranquilla CQ mkr CW (Alexander-IA) ECUADOR: 3800 0708 INOCAR Guayaquil OM SS time sigs AM (Thompson-CA) 0341 HD210A INOCAR Guayaquil OM time AM (Stickle-NY) 7600 PZN LTT Faramaribo CQ mkr CW (Pyne-MD)(Osterman-OH) CWA S/T Montevideo CQ mkr CW (Pyne-MD) SURI NAM: 16955 0032 0038 URUGUAY: 16869a YVTO Obs Cagigal time tick CW (Thompson-CA) 0728 VENEZUELA:6100 Lima Aeradio OM SS wkg Braniff flight AM (Lowe-AR) YXA Maiquetia Aeradio OM SS wkg Condor 11(Compton) 0352 PERU: 8826 1540 VENEZUELA:8959 EUROPE KWS78 US Embassy Nicosia QRA mkr CW (Boehm-TX)(Lowe) KWS78 US Embassy Nicosia QRA mkr CW (Osterman-OH) 0100 CYPRUS: 4910a 7620 0526 RE: 12916.5 2150 OXZ68 D9PT Lyngby R. CQ mkr CW (Pyne-MD) ND: 5701 0824 AJE Croughton AFB OM EE wkg acît USB (Lowe-AR) ON AERO GROUND STA LOGGINGS PLEASE INDICATE AIRCRAFT WORKED ID.-Ed. DENMARK: 12916.5 ENGLAND: 5701 GKR Wick Coastal R. ID mkr CW (Proom-ENGLAND) FDY AF Orleans V mkr CW (Boehm-TX) 1450 12709 FRANCE: 4920 0316 HWN Navy HQ Paris V mkr CW (Walters-NJ)(Coleman-MA) DIZ ASMW Nauen time tick CW (Lowe-AR) 17180 1525 GERMANY, E.: 4525 0458 KRH50 US Embassy Bonn QRA mkr CW (Boehm-TX) 0345 GERMANY, W.: 4626a IRELAND: 5533 0300 EIP Shannon VOLMET OM EE aero wx AM (Cuneo-NY) ITALY: 4614a 0202 IDR2 Rome Air Defense V mkr CW (Boehm-TX) IRM Rome Medical R. V mkr CW (Proom-ENG) 22525 1450 PCH42 PTT Scheveningen R. ID mkr-data burst(Moody) CTV73 Monsanto Naval R. V mkr P13A CW(Alexander-IA) CTP NATO Oerias ID mkr GW(Proom-ENGLAND) 2330 HOLLAND: 8650 2348 PORTUGAL: 13071a 16986a 1500 GXH USN Thurso LCMP CQ multimarker CW (Boehm-TX) Edinborough Rescue wkg "5995" wx USB (Lowe-AR) SCOTLAND: 4596a 0326 0813 5679 SWITZERLAND: 23285 1615 Berne Aeradio OM EE wkg Lufthansa 10 USB(Russell) 0814 Monmouth Rescue OM wkg Edinborough Rescue USB(Lowe) 5679 WALES: AFRICA Luanda Aeradio OM EE clg acît AM (Osterman-OH) AAF USAF OM EE "Ascension Airways" vm USB(Osterman) 8826 0420 ANGOLA: ASCENSION:8993 0015 AFE83 USAF Eastern Test Range wkg AFE7Ø LSB(Russell) 19961 2000 8945 6617 CSY Santa Maria Aeradio OM EE wkg unid a/c(Hickman) 0537 AZORES: Brazzaville VOLMET OM FF aero wx AM (Howell-CA) CONGO: 0354 DIEGO GARCIA: 16555a 1707 NKW USN OM EE clg Portishead R. USB (Ehret-PA) DJIBOUTI: 13642.5 0220 FUV Fr. Navy Djib City V mkr CW (Thompson-NM) EGYPT: 8847 0545 Cairo Aeradio OM EE wkg ACDK USB (Lowe-AR) 8578 2204 SUH Telorg Alaxandria CQ mkr CW (Pyne-MD) KKN44 US Emb Monrovia CLG KRC81 0550 QRA mkr(Boehm) CUB CPRM Funchal CQ mkr CW (Pagano-DC) LIBERIA: 4886a 0127 0940 MADEIRA: 8461 Kano Aeradio OM EE wkg Springbok flt AM (Lowe-AR) NIGERIA: 8826 0431 FIR Dakar Aeradio OM wkg TAP 386 USN(Fitzgerald-RI) 6VK49 TELESENEGAL Dakar YL FF/EE vm LSB(Chabak-AZ) SENEGAL: 8882 0315 0746 9917 FIR Dakar Aeradio OM EE wkg Alitalia 9USB(Hickman) 8882 0300 6WW Fr Navy Dakar-Hann R. ID mkr CW (Pettit-IA) 2255 16950 ZSJ5 Capetown R. CQ mkr CW (Pettit-IA) SO.AFRICA:8566 0425 Springbok LD Control Durban wkg 213 USB(Russell-IL) 13201 2032

8959 SUDAN: 0028 Khartoum Aeradio OM EE wkg "476\$ AM (Lowe-AR) SO.AFRICA:8914 0437 Johannesburg Aeradio OM wkg Argentina 501(Compton) ASIA 8771.2 CHINA: 0623 XSL2 Chungking R. OM CC/EE vm USB (Dawson-CA) BPV Zi-ka-wei Observatory ID mkr CW (Walters-NJ) 15000 1500 JJD20 Defense Agency (City?) wkg JJE20 (Boehm-TX) JFM Kochiken Fishery R. ID mkr CW (Boehm-TX) JAPAN: 4582 1157 5122a 1320 1514 KOREA, N. : 13727a Central Wireless Pyongyang YL EE vm SSB (Boyd-FRG) HLX MinCom Seoul CQ mkr CW (Thompson-NM) AQP4 Navy Karachi V mkr CW (Thompson-NM) KOREA, S.: 13028 0240 PAKISTAN: 17098 0310 AIC Clark AFB OM wkg NG737 USB (Chabak-AZ) TBA2/3 Navy Ankara T13A V mkr CW (Pyne-MD) RID Irkutsk time tick CW ID (Blaize-LA) PHILIPPINES:8993 0919 **TURKEY: 6395** 2326 0419 USSR: 10004 OCEANIA VLS Sydney VOLMET OM EE aero wx AM (Rosewarne-CA) AUSTRALIA:6680 0830 1431 (Thompson-CA) 7500 1329 VNG Telecom Australia time sigs AM(Koelble+OH) AXF RAAF Sydney OM EE wkg MAC70031 USB (Chabak-AZ) VLS Sydney Aeradio OM aero wx AM (George-TX) 8992 0726 10017 1000 VNG Lyndhurst time tick CW(Cereghin)0806(Thompson-C) NPN USN CQ mkr CW (Hickman-OR) 12000 0215 GUAM: 8150 1659 8989 0937 AIE Andersen AFB OM wkg AF Rescue 95821 USB(Chabak) HAWAII: 5519 #1401 Honolulu VOLMET OM EE aero wx AM (Thompson-CA) 8875 0423 KUA Honolulu Aeradio OM wkg acft EE USB(Fit,gerald) KVM7Ø Honolulu VOLMET OM wx AM(Koelble)0800(Dawson) 8903 0332 INDIA: 6680 #1435 Calcutta VOLMET OM EE aero wx AM (Thompson-CA) NEW ZEALAND:4380a 0822 NZPO Wellington OM EE vm USB (Jones-CA) 8992 0827 RNZAF Auckland OM EE wkg D5W USB (Chabak-AZ) ANTARCTICA NZ CM Mac Ctr McMurdo ARTCC OM wkg XDØ5 USB (Chabak-AZ) 8997 0836 0847 NQU USN Siple Sta OM EE wkg XDØ5 USB (Chabak-AZ) 13997a 0200 NØICF Mars Siple Sta OM EE wkg ZJK USB (Osterman-OH) 15845 0230 VNJ AOTC Casey Post OM EE vm USB (Osterman-OH) 0250 OM cla Sydney AOTC terminal USB (Russell-IL) UNIDENTIFIED KZU Harvey (State?) OM EE wkg river tfc SSB (Starr-GA) RPP-74 clg RID2 QTH? CW (Fitzgerald-RI) 4139a 0017 4390a 0348 4466a "U" beacon CW (Fitzgerald-RI) 0412 "BAD" beacon-like tape repetitions CW (Fitzgerald-RI) KWL90 QRA mkr CW QTH?(Boehm-TX) US Embassy---Where? 5746a 0300 5823a 1226 6760 MLO V mkr after SAC signoff CW (Lowe-AR) OM Portuguese vm USB (Dawson-CA) CRA "DE CRA" tape CW (Osterman-OH) 0101 8783.5a 0130 10900a 1210 12432a 2120 WVA OM EE wkg Woodpower 2 & Wood Svc 1&2 USB (Brick-TX) (Sounds like those are moonshiners!-Ed.) DKE "DE DKE" ID mkr CW (Osterman-OH) 13995a 0405 XRA beacon-like, under RCI CW (Pettit-IA) DTD36:"VVV QRA DE DTD36 QRU IMI BLITZ IMI AR CW (Compton-MA) 17760 1800 8905a 1945 SHIPS USS John F. Kennedy wkg Jacksonville OM EE USB (Russell-IL) GBTT Queen Elizabeth 2 YL wkg WOO USB (Fitzgerald-RI) NUSR USS Petrel OM EE wkg CG #1347 & NMN USB (Chabak-AZ) 2390 0328 4422.5 0315 0748 5696 "Pioneer" WZ5181 OM EE wkg WZ3581 USB (Mappin-WA) When list\* 6222m 2222 ing a freq as measured(m) indicate what model freq meter it was measured with; otherwise list the freq as approximate (a). - Ed.
 6506.4 0601 WTER NOAA "Researcher" 0SS-03 OM wkgNMN USB (Brick-TX) 0645 WTEA NOAA "Discoverer" 0SS-02 wkg SanFran USB (Brick-TX)
 8363a 0631 GPIK "BRITISH KENNET" clg GKB CW (Connell-MA) 0806 PGD0 "Nederweser" wkg TUA CW (Connell-MA) BOQJ "Tian Jin" clg FFL6 CW (Connell-MA) JDZQ "Shima Maru" clg NMF CW (Connell-MA) 8365a 0738 0902 JCVC Toyota Maru #8 clg GKB CW (Connell-MA) JCVC Toyota Maru #8 clg GKB CW (Connell-MA) DAYH Karl Marx Stadt wkg SUH CW (Connell-MA) JFEI Victoria OM EE wkg WOM USB (Fitzgerald-RI) ELPH "Fairwind" OM EE clg WOO USB (Lowe-AR) 0716 0531 8793.3 0300 12340 2220 "Enterprise" WZ6573 OM EE wkg KHU San Diego USB(Ehret-PA) "Nautilus" WYR6741 OM EE clg KHU USB (Ehret-PA) KIYP "Exxon Lexington" OM EE wkg KHT NY patch USB (Ehret) 16585a 2258 2310 1617 22120a AIRCRAFT 5696 0043 CG#1346 OM EE wkg Elizabeth City USB (Brick-TX) Braniff 977 OM wkg NY Aeradio USB (?????-??) 6540 0017 name & state on each individual logging !!! - Ed. Condor 1552 OM EE wkg NY USB(?????-??) Which airline flies the "Condors"?-Ed. PLEASE put 0559 39

6610 0220 Alitalia 568 OM EE wkg Dakar Aeradio USB (Fitzgerald-RI) Evergreen 804 wkg NY Aeradio USB (????-??) 8959 0002 8989 0105 Gull 25 OM EE wkg MacDill patch to Gull Ops USB (Chabak-AZ) 0114 Swan 18 OM wkg McClellan patch to McChord CP USB (Chabak-AZ) Lark 68 OM EE wkg Elmendorf AFB USB (Chabak-AZ) Spar 68 OM EE wkg Scott AFB USB (Devendorf-CA) 0136 11182 1910 Malawi 151 OM EE wkg Johannesburg Aeradio USB (Compton-MA) RAAF9759 OM EE wkg McClellan AFB USB (Chabak-AZ) Concorde 54 OM EE wkg NY Aeradio USB (?????-??) 0420 8914 11239 1839 2251 13288 2253 Aeroflot 257 OM EE wkg NY aeradio USB (?????-??) 2337 SAM26000 OM EE wkg Andrews patch to CROWN LSB (Devendorf-CA) 15015 8989 BF813(USNP-3) wkg Moffett Field via McClellan AFB USB(Russell) 0115 Lard 77 (airrefueling Kite 33) YL wkg MoClellan USB (Russell-IL) Gator 58 OM EE wkg McClellan AFB USB (Russell-IL) Transworld 6830 OM EE wkg NY Aeradio USB (Cereghin-MD) XDØ5 OM EE wkg South Pole USB (Chabak-AZ) Polar Star Copter 10 wkg McMurdo MAC Ctr USB (Chabak-AZ) 0125 0246 8996 0235 8997 0835 0844 Mopup 73 OM EE wkg Scott AFB (Russell-IL) Apply 70 OM EE wkg Red Flag Ops via Scott USB (Russell-IL) RAF680 OM EE wkg Offutt RAF Det via Scott USB (Russell-IL) 1615 11182 11182 1742 1925 Gull 44 OM EE wkg MacDill AFB USB (Lowe-AR) SAM26000(China VIP Teng aboard)wkg Andrews AFB USB(Russell-IL) TACTICAL 1725 11246 23265 2222 Skyking Tango wkg Bluetail on Comet Patrol SSE (Stone-CNT) RASPBERRY SAN CLEMENTE YL EE wkg CLIMAX USB (Chabak-AZ) 4700a 0120 2148 6723 6732a 0321 BEAVER(Jax NAS MedEvac) wkg 2 OSCAR & H-WHISKY(Fitzgerald-RI) ABSORB OM EE wkg SKYBIRD & AFØ35Ø USB (Chinakos-WA) DRYCELL OM Wkg YQ on SAC freq USB (Chinakos-WA) CHECKMATE OM EE wkg unid sta USB (Lowe-AR) 6760a 0521 0659 9920 2010 0333 CANDOLET Foxtrot tfc with SKYBIRD USB (Fitzgerald-RI) 11174 1918 11183 DUTCH DELTA OM EE wkg X55 USB (Devendorf-CA) 0044 11220 CHECKROOM OM EE wkg SKYKING USB (Compton-MA) 12251 1705 NPG TOREADOR SanFran OM EE vm USB (Russell-IL) BOOKSHELF BAKER OM EE wkg BOOKSHELF Ø1 USB (Russell-IL) CHECKMATE(Advance team for summit conf in Guadeloupe) OM EE 15048 1704 2140 wkg AFA, Crown, Hotshot, Coal, Sawhorse, etc. LSB(Russell-IL) SPY NUMBERS STATIONS SFY NUMBERS STATIONS YL SS "545", no message groups. AN (Watson-WI) YL"computerized voice" SS "545" 149 times 0110" 1/11(Boehm-TX) YL SS "187 269" 4-digit groups AM 1/25/79 (Watson-WI) YL SS "601 12345678910""Grupo 210" 4-d grs 1/18/79(Boehm-TX) YL SS 4-digit groups AM 1/25/79 (Watson-WI) YL SS 4-digit groups AM (kerrigan-IL) 1/23/79(Alexander-IA) YL GG 5-d grs after 5' guitar mx IS AM (Blaize-LA) YL SS 5-digit groups 12/22/79 (Jones-CA) YL SS 4-digit groups, "Final" 0238 1/24/79 (McWnerter-MD) YL SS "54" reneated AM (Kerrigan-IL) 4666a 0409 4670a 0055 4670a 0101 0300 0300 0340 4675: 0605 YL SS 5-digit groups 12/22/79 (Jones-CA) YL SS 4-digit groups, "Final"  $0238 \pm 1/24/79$  (McWherter-MD) YL SS "54" repeated AM (Kerrigan-IL) YL SS "Atencion 909 39" 5-d grs  $0705 \pm 12/31/78$  (Pettit-IA) Music, YL GG"repeating 5 digits" AM 1/24/79 (Brick-TX) YL SS 5-digit groups AM 1/20/79 (Brick-TX) YL SS "682 90" 4-digit groups AM 1/20/79 (Watson-WI) YL SS "137 164" 4-digit groups AM 1/24/79 (Watson-WI) YL SS 5-digit groups AM 1/24/78 (Dawson-CA) YL SS 5-digit groups 1/7/79 (Pettit-IA) YL SS 5-digit groups 1/27/79 (Dawson-CA) YL SS 5-digit groups 1/27/79 (Dawson-CA) YL SS 5-digit groups 1/27/79 (Pettit-CA) YL SS 5-digit groups  $2148 \pm 1/28/79$  (McWherter-MD) YL SS "187 269" same as 4670 0101z AM 1/28/79 (Watson-WI) YL SS 4-digit groups  $1525 \pm AM 1/27/79$  (Mellinger-NJ) 5187a 0405 5810a 0235 5813a 0400 5900a 0700 6505a 0600 6772 0704 6780a 0609 8420a 0203 8785a 0648 8874a 0630 0721 9456 0625 11175a 2146 11530a 1611 YL SS "187 269" same as 4670 01012 AM 1/28/79 (Watson-WI) 1510 YL SS 4-digit groups 1525\* AM 1/27/79 (Mellinger-NJ) 1606 YL SS "545" no groups AM 1/21/79 (Watson-WI) 13443a 1626 YL SS 4-digit groups USB 1/28/79 (Fitzgerald-RI) 14967a 2231 YL EE "371" "688" no groups AM 2/4/79 (Watson-WI) <u>RADIOTELETYPE</u> CANADA: 6345 0600 CFH Navy Ellerhouæ NS EE vx 100wpm/170hz shift(Woods) CAPE VERDE IS.:9148 0455 D4B RY test, tfc 66wpm/??? shift (Woods-CK) CHILE:15725 0150 CCS Santiago SS tfc 66/425 (Woods-CK) COSTA RICA:16401a 2045 Prensa Latina San José SS news 66/425 (Woods-CK) ETHIOPIA:11120a 0313 ETD#3 Addis Ababa RY test 66/425 (Woods-CK) HAWAII:13965 2230 AGA USAF Honoluu-Hickam EE tfc ??/??? (Woods-CK) 11530a 1611 HAWAII:13965 2230 AGA USAF Honolulu-Hickam EE tfc ??/??? (Woods-CK) PARAMA: 20700 2020 NEA USN Balboa tfc 66/425 (Woods-OK) PERU: 13380 2345 OCB75 Prensa Latina Lima SS news 66/??? (Woods-OK) SUDAH: 13960 2230 STK RY test 66/425 (Woods-OK) 40

## QSL REPORTS

## Editor: Bob Donly 7208 Sunview Dr. Columbia, South Carolina 29209 (deadline 15th of the month)

Well, its March; however the date of 17. Tebruary. 1979 will live in infamy. On that norning, I walked into my office to get an early start on the March Column. It was at that point that I noted the bare table on which the nite before I had left the stacks of sorted, and alphabetized reports from you, the club members. They were gone.

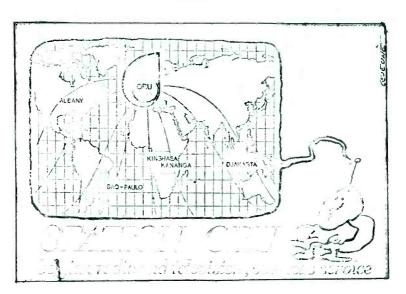
I did some quick checking, made a few phone calls; and the sad situation came to light. An over zealous, and new custodian while cleaning my office had cleared the table and thrown all of your reports for the month in the trash can. This was no ordinary trash can, but one which shreds all paper that is put into it. The hard bare truth is that all your reports for the month of March were destroyed. I shall try to have the man discharged, but this will not bring back your reports. Let me assure you that next month I will make copies of all your reports as they come in, and guard them very carefully. I am still not sure how this could happen to me since I am a well organized engineering type indivdual. Well enough crying over spilled milk !

There is a little brighter side to this situation. The contribution list had already been mailed to Ollie Ellsworth, and you will receive credit for your reports. Also, QSL copies, and some other information was retained. If you will resend your March reports, I will print them and give you credit again

There were a few interesting facts that came to light this month. David Peters, and one other, received a OSL card from Radio Uganda in place of their usual letter type. Michael Chinakos received a letter from The BBC Atlantic Relay Station completely verifying his report, and John Kapinos received a full data Inglish/Spanish OSL card from Radio Mexico instead of their usual no data letter. I wish you guys had sent me copies ! Well, this month its going to be pictures from your packets, and my collection.

I am also going to try for some pennants.

Away we go 1



Europe

North America



My deep thanks to 78 reporters, who did not get their reports printed due to my disaster. Please resend them, and keep reporting, it shall not happen again !

Chris Lobdell tells us that if you want a QSL from Radio Relog, 4832kHz in Costa Rica please report on their programme " Aqui Costa Rica ". This is the only portion of their broadcasts they will verify. EE reports are OK, send to Apartado 2936 - San Jose, Costa Rica attention Roberto E. Aragon.

David Peters has asked that I print more verification signatures, I shall try to do so !

Since I started the column, we have had winter storm that left us with about six inches of ice on the ground. This was the second storm in two weeks. Since my typewriter at home is not very good, I had to drive five miles to finish it up. The weather being as it is all over the good ole U.S.A. ; I don't think I'll complain too much !

Catch up with you again in 30

19. February. 1979

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Tips and Topics

The Feature Section of SPEEDX

EDITOR: ARTHUR S. GETZEL - 70-29 KISSENA BLVD - FLUSHING - NY 11367

# FROM THE PAPERS

This month we will bring you many articles from various newspapers and magazines concerning the radio spectrum. nost articles this month will be concerned with the shortwave scene. But we will

also include several articles pertaining to mediumwave and TV which I feel may be of interest to our renders. Tany articles have appeared in the last several months in various newspapers and matazines concerning radio in general. And it is always interesting to react that is being said in the papers about our fascinating hobby. Well, read on and you will that out.

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ICC DIALS A DILETIA. . The International Olympic Committee is considering banning Radio Free Europe and Radio Liberty from the 1980 Moscow Olympics which leaves the US Government which funds the stations in a bind. The controversial issue will be high on the agenda when the IOC's nine-man executive board meets today and tomorrow in Lausanne, Switzerland. But Lord Killanin, the IOC president, has made it clear both RFE and Radio Liberty were unlikely to be allowed any accredited journalists at the next Summer Games. But any ruling by the IOC to ban them from Hoscow would also apply to the Winter Games in Lake Placid and the Federal Government might object to the ban. In 1976 Congress voted 277-0 on a motion insisting that RFE and Radio Liberty be given Olympic accreditation. (MEN YORK DAILY NEES, January 20, 1979 via Graig, T. Hellinger)

US SEEKS CHANNELS FOR 700 HEW ALL STATIONS. . The Carter Administration plans to try to open the way for the creation of up to 700 AM radio stations and the development of low-powered television stations that could serve rural areas and even some urban communities. The plans go beyond a proposal several months ago by the Federal Communications Commission to allow for up to 125 new AM stations by ending its policy of maintaining 25 "clear-channel" 50 kw stations to provide broadcast coverage to remote communities. The new proposals are designed to increase competition in broadcasting and give members of minority groups a better chance to own stations. The Administration plans to ast the FCC to begin proceedings to carry out the plans.

#### "To Show the World"

"We think," Henry Geller, the Administration's communications policy chief, said, "These policies would help to increase healthy competition in the broadcast media and also show the world that we intend to make the most efficient use of our spectrum."

The new radio stations could be added to those now broadcasting by reducing the spacing between frequencies. This is now done in Europe and elsewhere outside the Western Hemisphere. Technically, this means reducing the spacing between the frequencies from 10 kHz.

There are 4500 AM and 4000 FM stations. In many areas, especially urban zones, the AM band is virtually completely allocated. In addition, the FCC has recently asked the State Department to seek additional wavelengths for several hundred new stations at the World Administrative Radio Conference this year.

Mr. Geller heads the National Telecommunications and Information Administration of the Commerce Department, and developed the proposals in concert with the White House domesticpolicy staff. The FCC is already studying the use of low-power television stations and "translators" as a way to reach rural areas that have few stations, and some urban minority or ethnic communities that might be served by special-interest programs. Translators are an alternative to cable systems where a transmitter - usually working with low power picks up and repeats programs being broadcast in a distant community. Under proposals before the commission, these translators would be authorized for wider use, and in some cases allowed to originate local programs.

Elsewhere, including Western Europe and Africa, reduced spacing in the AH band has already been adopted, Hr. Geller said. Eut the policy, if adopted here, would have to be implemented together with Canada, Actico and Latin America to avoid interference problems. Among the benefits of the new spacing, he said, would be the possibility of new assignments in the crowaed AH band; improved local broadcasting under local ownership, including minorities; less reliance on daytime-only stations, and worldwide uniformity of broadcasting; technology. Such uniformity would nake it possible to develop better radios with electronic digital tuners, according to Hr. Geller.

Wider use of low-powered television transmitters, broadcasting on unused urban channels, could provide significant new voices, according to the communications administration. The telecommunications agency continues to support the Government policy of aiding minorities in purchasing existing stations. , Br. Geller said, but the new stations could provide a faster way to increase minority impact in the ownership and management of broadcasting outlets.

There are some drawbacks associated with the proposals. Reduced spacing could make some inexpensive radios obsolete, and the frequency shifts would create some expenses for broadcasters, who would have to make changes in their transmitters. However, the Administration favors the changes because it feels they would enhance competition and possibly create an atmosphere where there would be less need for Government regulation of radio broadcasting.(From THE NEY YONK TIMES, January 10, 1979, via your editor.)

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<u>PIRATE MADIO SHIP'S CREW SAVED IN STORM</u>. . The five man crew of the pirate radio ship Mi Amigo were rescued by lifeboat. Friday night in stormy sea off England's east coast, coast guard officials said yesterday. The 274 ton ship appeared to be sinking about 14 miles off the coast after being hit by gale-force winds. The Mi Amigo started transmitting a pop music program as Radio Atlanta in 1964. Its broadcasts were considered illegal by the British government. (From the NEW YROK SUNDAY NEWS, January 21, 1979, via Craig Mellinger)

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<u>RBI TO ISSUE NEW QSL CARDS.</u> . .The DX Club management of Radio Derlin International will soon issue a special four-part QSL card series in honor of the 30th anniversary of the founding of the German Democratic Republic. Placed together, these four individual cards will make up a map of the GDR with symbolic representations of its many places and sights of particular interest. To acquire this unique edition, all you have to do, whether you are a member of our DX Club or not, is to send in four reception reports on our programs during the period between May 1st and October 7th, 1979. Your reports must, as always, contain date, time of broadcast, frequency, wavelength, reception details and a brief account of the broadcast material. Club members must ensure, of course, that these four reports are submitted in addition to the regular monthly report called for by the Club rules. Hark your four reports "DDR 30" and individually with the series number 1, 2, 3, or 4. The corresponding QSL cards will then be sent to you by mail. (From RADIO BERLIN INTERNATIONAL JOURNAL via Craig T. Hellinger)

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<u>25TH ANNIVERSARY OF FIRST HISSIONARY BROADCASTER.</u> . The first missionary radio station in Africa is now 25 years old. Station ELWA, founded by the Sudan Interior Mission, began broadcasting  $4\frac{1}{2}$  hours a day in 1954; today it carries programming in 45 languages, with 43 transmission hours daily, and covers most of west, north, and central Africa. (From WATCH AND PRAY, January 1979, via Bob Zilmer)

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WHY THEY FEAR THE VOICES OF BUSH HOUSE. . .The BBC's very effective external services are fighting for their continued existence. Broadcasts from Bush House in the Strand, in 38 foreign languages, in addition to the 24 hour-a-day World Service in English, infuriate the world totalitarian regimes just as they incensed the Nazis. The Bulgarian section puts out three program segments a day to the most Stalinist of the East European satellites. Each program is believed to have a larger audience than Radio 4's World at One.

The most popular program in the Romanian service is about the adventures of a Romanian exile, Jimmy Cornell, now roving the world in his own yacht. His program called "Aventura" is about the impossible. Its audience is estimated at five million - double the number of Britons who listen to The Archers. Although the BBC has now slipped to fifth place in the volume of its overseas broadcasts, they are avidly listened to because they are free from the more blatant anti-Communist tone of such American funded stations as Radio Free Europe and Radio Liberty. For this reason the BBC is deeply feared by the Communists.

It is not just the people of Eastern Europe who listen to the BBC. In Pakistan, with its Government controlled Press, it is estimated that 28 percent of the population listens every day. Latin America is served by transmitters on Ascension Island and Antigua and in Mexico City alone the Spanish American Service is believed to have 200,000 listeners - double the audience figure for BBC Radio London. There are several million listeners in the United States who prefer the calm news and background services o the English language World Service to the frantically fast reports from the US networks. (From the DALLY MAIL, September 12, 1978, via S. Proom)

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<u>A DEFENSE FOR RUSSIAN RADIO WAVES</u>. . .There's a nice little story out of Kirkland Lake, Ont., which I must share with you. Seems the mayor of the town and some of the residents are worried about Russian radio waves bombarding them. Not all the locals take the stories that seriously: Two of them, Matt Swiergosz and Paul Turgeon have "invented" a defense against unseen emissions. It's called a Russian Radio Wave Deflector. It consists of a pie plate, aluminum, specially crimped around the edges. It sells for 25 cents, and they can't keep up with the demand. Even so, Swiergosz and Turgeon are contemplating a small version you'd hang around your neck. (THE PROVINCE, August, 1978, via Ron Seiler)

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SHORTWAVE KEY IN AIRWAVE BATTLE. . .One of the world's most widely broadcast radio shows is a program on shortwave out of Moscow called "Mailbag," starring Joe Adamov, an Armenian with a Chicago accent. Adamov chattily answers listeners' questions on a wide variety of topics and invariably gets in a plug for his sponsor - the Soviet government.

"Mailbag" and similar Western style programs are part of an ambitious new effort by Radio Moscow to capture English language audiences around the world. In recent weeks, the Russians have inaugurated a "World Service" that broadcasts in English 19 hours a day and is soon expected to expand to 24. Western diplomatic sources see this as the latest in a worldwide battle for the airwaves in which all of the world's major powers and many minor ones are engaged.

#### Operated Worldwide

For although television may seem the communications giant of the day, shortwave radio is still the most prevalent medium in most of the world. More than a billion radio sets are in use, about two-thirds of them able to pick up shortwave transmissions. The combined AN-shortwave set has long been as common in Europe as the AM-FM set is in the United States.

Britain, with its British Broadcasting Corp, once was the unchallenged leader in overseas broadcasting, but now is fifth in the number of hours beamed abroad a week - 710 - after the Soviet Union, the United States, China and West Germany. The USSR broadcasts more than 2000 hours a week in 63 languages. The BBC has a staff of more than 1000 (including persons of 50 different national origins) and a budget of about \$66 million a year. It transmits in English and 38 other languages. To most observers, the BBC remains the world model for fast, accurate, impartial news broadcasts and balanced and fair commentary. And this is believed to be a constant goad for the upgrading of government news services everywhere. "If an Iranian can't find out what's happening in Tehran from his national news broadcasts," says one specialist, "he can simply switch to the BBC. So it behooves other radio services to give the news impartially."

#### US Has 3 Services

The US produces some 1,838 hours weekly over the Voice of America, Radio Free Europe, and Radio Liberty. The Voice of America (VOA) broadcasts in 36 languages from 120 transmitters, with a staff of 2,300 and an annual operating budget of \$75 million. It beams news, commentary and Americana shows overseas 836 hours a week to an estimated audience of 75 to 80 million people. Radio Free Europe broadcasts 554 hours a week in six languages to Eastern Europe, and Radio Liberty 448 hours in 16 languages of the Soviet Union. The two were originally funded by the CIA to penetrate the Iron Curtain. In 1971, the CIA officially stepped aside, and the now consolidated stations receive their funds from the US government in the regular congressional budget - currently \$85 million. Though China ranks third in shortwave broadcast hours, its stations are poorly located and badly maintained, sources day. Even the US consulate in Hong Kong has difficulty picking up Radio Poking's weak signal. (THE HILENSIZE JOURNAL, December 18, 1970, via Bob Zilmer)

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FLORIDA UPLATE. . .On Lovember 23, 1978 'YTR's transmissions from Okeechobee, Florida began its second year of operation. Presently, Family Radio's Florida facility is using two 100 kw transmitters, and will begin using its third before the end of the year. The move from Lassachusetts to Florida is presently at the halfway point. The construction of the transmitter building is virtually completed, and its interior is beginning to take shape. For example, the control room area is designed to allow a single operator to monitor the transmitters' operation or switch antennas while overseeing the various program tapes being broadcasted. This improvement allows the rest of the engineers to devote their attention to other important projects. In addition, the area housing the transmitters is spacious enough to provide the room required for placement of all of "WTR's transmitters, as well as tuning and proper maintenance of each transmitter. ( From WTR schedule via Ron Seiler)

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<u>RADIO CAROLINE STILL DEFYING COVERNMENT OF BRITAIN</u>. . .She rides at anchor in exile in Knock Deep Channel, out of sight of land and away from shipping lanes, about 18 miles off the Essen: Coast in the North Sea. Nor black hull is battered, her white superstructure streaked with rust. A 160 foot transmitter mast towers above the decks. She is the Ni Amigo and she is home for the legendary Endie Caroline.

Despite repeated efforts by the British and some European governments to silence Radio Caroline once and for all, the original pop pirate radio station, which began broadcasting in 1904 looks like it will go on forever. Johan O'Rahilly, the 38 year old Irishman who started Radio Caroline, says he hopes it will. "Caroline is incredibly anarchic. Sometimes it is so haphazard that it's all over the place. And yet it's there. It's a piece of magic. We may be here for 10 more minutes or 10 more years, but a lot of people fight for us."

O'Rahilly directs Caroline's operations from Spain, one of the few European countries to tolerate marine broadcasting. Caroline's food and other supplies arrive from Spain because it is illegal and punishable by a \$200 fine in Britain to supply, work for or advertise with Radio Caroline. Subjected to an international blockade, Ei Amigo has not put into port for six years. The deejays (who must use pseudonyms), engineers, technicians and erew all risk arrest if they set foot on British soil. They work abroad Li Amigo for two months at a time between shore leaves. Bi Amigo, therefore, is as much a home as a radio station. There are two studios, one for the deroline evening service and the other for a Flemish-language station, Radio Hi Amigo, which broadcasts during the day.

James Ross, an English deejay from the London area, has worked for Radio Caroline for three years. "In the main, I thoroughly enjoy life on board," he says. "Of course, there are times when you get bored or lonely. But we are like a happy family and for most of the time we find plenty to keep ourselves busy. I sleep more than if I was on land - about 10 hours. Heals are at set times and they are very good. Our programs last three hours each and a lot of time is spont in preparing them."

Unlike the BBC and commercial stations controlled by the Independent Broadcasting Authority, the deejays choose the music they wish to play. Listeners don't hear the top singles over and over again - Caroline deejays devote most of their time to album play, with emphasis on emerging talent and oldies from the '60s and early 70s.

When not working, crew and Caroline staff swim, fish or watch television. The deejays are not paid nearly as well as their colleagues ashore. The deejays don't know where the money comes from that keeps Caroline afloat. It costs thousands of pounds a week to run and those companies that have advertisements on Caroline deny knowledge of them.

The course of Caroline's career has not been smooth. In 1975, Hi Amigo drifted inside British territorial waters and was boarded by representatives of the Home Office. The captain, an engineer and two deejays were arrested and prosecuted under the Harine Offences Act. And storms at sea can cause rather severe technical difficulties.

It is difficult to assess how many people listen to Radio Caroline, O'Rahilly says, but it can be received throughout much of Britain and the Continent. O'Rahilly started Radio Caroline because he was managing a young unknown musician and found he couldn't get any airplay for his charge on the then-monopoly of the BEC. "We achieved a lot. Decause of what we did, Britain now has a choice of radio stations. But there is still a place for Caroline because she is the only station playing just album music. I reckon we have an audience in the five million range. We are not making a fortune, but somehow we keep going. I have never asked for Caroline to be legitimized and taken on land. In any case," O'Rahilly says with a laugh, "I doubt she would fit into the tight restrictions of the Independent Broadcasting Authority. Sometimes when I get really down and wonder whether it is worth all the struggle of keeping her on the air, I ring up a friend. His name is Buster and he's housebound. We listens to Caroline all the time. A few words with him and I know why we're doing it. He cares and it gives him happiness - and that makes it worth all the effort." (THE PROVINCE, August 2, 1978, via Ron Seiler)

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EDUCATIONAL TV BIG IN CHINA. . .You won't see violence on television here, and sex is generally limited to the romantic handshake. But the Chinese still are hungry for TV sets to watch educational shows on everything from English to electronics. This capital of 8 million people has two television stations and more than 30 in the provinces serve a total of 1 million small sets. A television costs between \$120 and \$240, and the waiting list to get one is long.

TV fare is largely instructional. These programs take up 25 percent of the short broadcast day that consists of three or four hours each evening on the Peking channels. But there also are newscasts, variety programs and films - mostly Chinese but a few from North Horea, Romania and Yugoslavia. State television spokesman Chen Han-yuan told an interviewer that while scenes of a couple hissing would not be cut from an imported film, they would never appear on a Chinese made TV show or film. "We don't show ourselves doing such things in front of the camera. In China we prefer to shake hands," He added. Still, the meaningful looks that go with a filmed love-handshake would please Rudolf Valentino.

Another sexual subject that has not made it to China's TV screens is birth control, considered vital by the communist rulers of the world's most inhabited nation - estimated population 850 million. "We have not decided how to present it for family viewing," Chen said of a program that encourages couples to stop at two children and counsels abortion for any woman pregnant with a third child.

Chen was emphatic about blood-and guts video. "In my opinion it is a crime to show crime and violence on TV - especially for the younger generation," he said. "In China, all th media is devoted to the betterment of the people."

To help mold the people to China's new Western orientation, guided by the pragmatic rulers who arose after the death of Chairman Mao Tse-tung in 1976, lessons in English, French and Japanese are broadcast both on Chinese television and radio. English language students in Hanchuria report that they regularly listen to Voice of America broadcasts relayed from Okinawa and can pick up BBC programs from Hong Kong.

There are an estimated 50 million radio sets in China, ranging from large table models to hand-sized transistors. It is not unusual to see a waitress or taxi driver listening to a language study program and repeating each phrase uttered by the teacher. The domestic radio service known as the Central People's Broadcasting Station, also provides programs Tibetan, Mongolian, Korean and other languages of China's 50 nationalities during its 90 hours of daily programming on several wavelengths.( (THE NEWS AND OBSERVER, July 16, 1978, via Woody Seymour)

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WEST IS FEARFUL OF SOVIET RADIO IN IRAN'S CRISIS. . .Western anxiety has been sharpened by intelligence reports that the Soviet Union, although publicly following a hands-off policy, is beaming inflammatory shortwave radio propaganda into Iran. Soviet propaganda has been active in encouraging opposition to the Shah. European intelligence organizations have located a Soviet station broadcasting in Persian and Local dialects from the southern Soviet Union. (NEW YORK TIMES, December 25, 1978, via Annon Nadav)

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BROADCAST EXPANSION SOUGHT: FCC BIDS US ASK WIDER SHARE AT GENEVA IN '79. . .The FCC said that the nation should seek an expanded share of the world's broadcasting spectrum at a Geneva meeting this year, where keen competition is expected between industrial and developing nations. For instance, the commission wants to expand the AI radio band, adding up to 700 radio stations in the US, as well as more citizens' band, other mobile frequencies, navigational channels and satellite systems. The commissions' list of priorities was transmitted to the State Department which will assemble the delegation and priorities for the United States for the World Administrative Radio Conference in September 1979.

More than 1100 delegates from 154 nations, members of the International Telecommunications Union, will meet for about 10 weeks at the conference, which is convened once every 20 years to carve up the world radio spectrum for use in the following two decades.

#### Compiled With Difficulty

At least four years in preparation, the list of priorities was compiled with difficulty because of "competing demands for portions of the spectrum," said Halmann Schueffer, foreign affairs advisor to the conference. Fr. Schaeffer and Schuel E. Probst, director of spectrum plans and policies for the National Telecommunications and Information Agency, said they expected the State Department to accept the FCC plans without much change but there is the possibility that political enigencies may lead the department to make some modifications. The commission's list of needs include the following:

- Expansion of the AM amplitude modulation broadcast band, which now extends from 570 kHz to 1610 kHz by creating a second set of frequencies from 1615 to 1600 kHz to be shared between broadcasting and other services
- Allocation of the entire band from 470 MHz to 890 MHz, now given over exclusively to ultra high frequency television, to both television broadcasting and fixed and mobile communications such as citizens band.
- Increase in high frequency or shortwave band allocations for broadcasting, and maritime and amateur communications. This part of the spectrum, from 3 to 30 MHz, will also be sought by developing mations for basic communications much as developed nations now use landline and microwave telephone systems.
- Doubling of the orbiting satellite frequencies available in the frequencies of 12 to 14 gigahertz (one GHz is a frequency of one billion cycles per second), described by officials today as a "precious resource," for use in the coming years of satellite communications expansion.
- Protection of certain high bands for satellite "scheing" of natural microwave emissions for environmental and weather studies, enabling scientists to measure by satellites such things as moisture content of the soil, surface temperature, ice thickness and water vapor. Communications officials say these satellites are not used for spying and intelligence gathering.
- Allowance of future use of the 806 HHz band for various two way land mobile communications. Also allocation of frequencies for the first time at the far end of the usable spectrum, from 40 to 275 GHz.

In addition to possible strife with developing nations over the use of the high frequency band, according to commission officials, the US is also likely to clash with Canada and possibly Mexico over this nation's proposal to get international sanction for mixing UHF television and CB in one band. As a matter of its own domestic policy, the US already allows use of this band by both services, but this policy has led to strife with Canada. The Canadians whose major cities lie close to the northern American border, have chosen to use UHF more than VHF for television, leading to interference complaints by the Canadians, who blame American land mobile radio.

Asked to pinpoint possible areas of conflict at the conference, Mr. Schaeffer said he expected "some controverry in high-frequency broadcasting and shortwave bands, including maritime allocations"as well as in the area of fixed satellite communications. The officials explained that problems were likely in the high frequency area because signals in those bands traveled over great distances and were more likely than others to interfere with broadcasts in other countries. The FCC emphasized that its final recommendations were assembled only after sifting through thousands of comments from industries and other interested individuals.

All of the 154 member nations of the international Telecommunications Union are to have their final lists of priorities at conference headquarters by Jan. 24, 1979. Then the lists will be exchanged and, in some cases, nations will hold bilateral talks to resolve any conflicts.

.nother task for the Americans, and especially for Glen O. Robinson, a University of Virginia law professor who will head the American delegation, is the selection of the 30 or so members of the group who will go to the conference. Mr. Schueffer said they would be drawn from Government, industry and public-interest organizations, and that members of Congress were likely to be included.

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"THE OLD RADIO SHOP"

by

Grant Manning

In my 17 years of DXing, radio and electronics (plus or minus a few maybe) there has always been a limiting factor in attaining the "supreme" DX log. It has varied from the kitchen fluorescent lights at the age 15 that had to stay on all evening, to the night TV watcher in an apartment years later. If one must watch the boob tube, I wish they would at least incorporate a timer to shut it off when they fall asleep.

In the course of building better and better gear, the limiting factor in signal to noise ratio has been how much junk you receive besides the desired signal. In attempting to shut off, or reduce, some of these noises, quite a bit of experience has been gleaned from wandering around in the wee hours of the morning with a transistor radio trying to locate and eliminate the offending QRM.

1 have also gone with Mr. Leo Gersch, Radio Inspector for the San Diego Gas & Electric Company, and an ex-lineman. Both Leo's comments and pictures appear in this article. When one gets right down to it, there has been very little written about QRM from powerlines, etc., especially with the shortwave listener in mind. In this article I'll try to explain the most common sourses of annoying noise.

I guess it all started in Pacific Beach, California when I ran an apartment house and had ace DXer John Kolb living there. Between the two of us we probably logged every fish tank in Pacific Beach! By far the nastiest QRM for a SWLer in the city has to be the infernal TV set. These have what is called a "borizontal sweep oscillator" with which (among other things) they develope the high voltage for the picture tube. This operates on 15.75 kHz. The normal output tube is capable of delivering 20-30 watts @ 15 kHz, depending on how they are driven and what type of tube is employed. Most TV sets drive the heck out of this tube, and generally when you loose your picture and still have sound it's the output tube that goes.



The main problem with this is that there is little or <u>no</u> harmonic suppression in this circuit. A harmonic is a wave having a frequency that is an integral multiple of the fundamental frequency. Thusly for 15.75 kHz fundamental you have harmonics at two times, three times, four times, etc. For example, 53 times 15.75 kHz = 834.75 kHz which happens to be the frequency of Radio Belize in the British Honduras. Not a rare catch in the southern USA, but if you want to listen to it you have to put up with the QRM, even if your TV is off. In an apartment house other TV's will almost block this frequency. And remember, the RF adds up. It's quite noticeable in the 19 meter band for example.

HAM transmitters, CB's, etc., are required by the FCC to <u>effectively</u> suppress these harmonic frequencies. Until recently TV manufacturers have not had to, and what is required now is almost not worth the effort. The cure for TV harmonics? Move! And hope the new QTH is better.

(continued)

(NOTE: THIS ARTICLE IS REPRINTED FROM THE AUG/SEP 1977 BULLETINS FOR THE BENEFIT OF MEMBERS WHO HAVE JOINED SINCE THEN.)

QRM - The Old Radio Shop - Grant Manning (continued).....Probably the #2 noise source is the unidentified buzz, either intermittent or steady. You find yourself hunched over the receiver early some evening trying to get an ID on a rare South American station that only comes on the air once a week. All of a sudden, just when they start into the IS & ID a horrible B-U-Z-Z-Z-Z permeates the ether, pinning your S-meter at 20db over nine. You just blew two hours of labor trying to log the station! How many times has that happened to you? What's causing the buzz? We ask Mr. Leo Gersch:

Author: What are the most common household items that cause this noise?

- Leo Gersch: Fish tank heaters. Every week 1 find one or two. In the winter time it's electric heating pads. People buy brand new heating pads or tropical fish tank heaters and the thermostats are no good. Light dimmers are becoming more popular now, and therefore more troublesome. Even a gas range can cause noise problems. Gaffers & Sattler put out, if you can believe this, a gas range with an electric control on the oven that had a bum thermostat! They have manufactured thousands of these. Orange County is invested with them are several other areas. (I had one of these when living in Poway. When it came on it would almost peg my SPR-4 @ 20db over 9 with a loud buzz rising in frequency from low to high, and finally locking on after five seconds. gm)
- Author: Do you replace these bad thermostats?
- Leo: No! We don't touch them. All we can do is tell the customer that it is causing a problem. That it is a faulty product and should be correctd by the dealer or factory.
- Author: Can anything be done to stop a customer from using faulty equipment?
- Leo: All we can do is ask a customer to discard a piece of equipment that is causing QRM, or have it fixed. I believe that the FCC can



Interior of Van used by Leo Gersch of SDG & E

step into cases if they are extreme. What the actual readings have to be before the FCC takes action, I don't know. Somewhere around 50uv/M. If you have a piece of equipment that is in violation of the FCC regulations, they can cite you and take the matter to court. England & Canada have the best system. If you want to buy a tropical fish tank

heater, buy one manufactured in England. <u>They</u> are not allowed to manufacture trash like US manufactures are.

Author: Aren't light dimmers inherently noisy?

- Leo: The cheap ones are, the good ones are not. There again nobody is watching the manufactures. There is a capacitor that can be built in to quench the QRM at very little cost. We are too loose. We are over governed, and yet things that could help everyone are ignored.
- Author: Do you have any contact with other power companies such as Southern California Edison?
- Leo: No. At one time 1 gave some thought to trying to get together with Bill Nelson, SCE's amateur representative, to maybe get a group of us to meet, but.....

Author: Your job is entirely experience?

Leo: Yes. By the seat of your pants. Your first one is always the hardest to find, when a newly manufactured item enters the market. Each item has a sound of its own. If I hear a heating pad, I know what it is. If I hear a fish tank heater, I know what that is. It would not be practical to filter out what comes into your house on the power lines. You have to locate the sourse.

(continued)

<u>QRM - The Old Radio Shop - Grant Manning (continued)</u>....l got fairly good at shaking poles, which is what you do to find the source of actual power line hash. Leo Gersch drives a company provided Ford van which is equiped with a HQ-180A receiver, and a Delcon amplifier with an ultrasonic probe, among other things. The receiver has its AVC defeated and a meter mounted on the dashboard of the van that indicates the amount of hash received(wired across the voice coil of the HQ-180A). To locate noisy poles we drove around in the area of my home(then)and watched the meter.

Author: What makes the poles cause QRM?

Leo: Almost all interference is caused by loose hardware. A broken or cracked insulator happens, but that is rare. A common misunderstanding is to place the blame for noise on the transformers. In our entire system, 1 don't find one, or even average one a year, that are causing the QRM. People pick on the transformers because they are large and obvious. Dead ends cause 90% of the interference problems. This is where the lines end or change directions. (See photo on next page) The hardware is bonded together and grounded but, with expansion and shrinkage of the wood, the bondings come loose and arcing occurs from the hardware to the bond. It's a continual problem until double coil spring washers are installed. When a maintainance crew goes out, it's standard proceedure to install these washers if the pole is not so equipped. Outside the Dead Ends, the most common cause of QRM is loose bolts on a crossarm brace. The braces are V shaped and clamped to the crossarm with a  $\frac{1}{2}{}^{(1)}$  x  $7{}^{(1)}$  bolt. If there is no Dead End, these loose bolts are a common cause of interference.

To locate noisy poles, in addition to driving around with the receiver on, close visual inspection from the ground and mechanical vibration are employed. To shake a pole sounds easier than it is. The idea is to listen on the radio for immediate disturbance of the noise as the pole is shaken. If when the pole is shaken, an immediate interuption or change is noted in the noise, chances are that you've found the source. If it takes a few seconds for a change in the noise to take place, the source is probably a pole or two away from where you are standing. The easiest way to shake a pole is with the guy wire. If there is no guy wire at the pole, you take this large sledge hammer......WHAM! You bash the pole a good one while listening to the receiver. got to bash a few poles.

There was a pole close to where I lived that was fairly new. It had been reported twice (by myself) and was still making noise(S9) most of the time. I asked Leo just how far SDG & E <u>had</u> to go to satisfy a HAM or DXer.

Leo: Nine-tenths is customer relations, trying to get along with our customers. In a case like this, it's lack of cooperation amongst the people that are supposed to be doing the work.

(continued)



Delcon & insulated pole collapsed

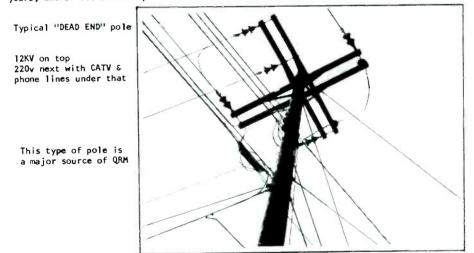


**QRM -** The Old Radio Shop - Grant Manning (Continued).....On the pole that had been reported twice and was still noisy, Leo Gersch had pulled the bond loose from the crossarm using a long insulated telescoping hook from the ground once. On the third call(spaced about three months apart)to check on a new noise coming from the same pole, Leo used the hammer....MMAM! The result was that the hot side of the l2KV came <u>down</u> putting the entitie area out until it was fixed. Leo thanked me for this explaining that it would have been worse all around if it had of come down in a storm or high wind. It was only a matter of time before it would have come down anyway.

Author: Does the power company have to maintain the poles?

Leo: There are rules and regulations that say we have to build our system within certain specifications, but there is no place in the book that says we must maintain our system according to those specifications. Once we build the system to meet the book, nobody can force us to maintain it to that. This is strickly our business, and customer relations that we maintain it to that degree. Fifteen to twenty years with no maintainance would take a lot of work to bring the system back up. When the area was built, they didn't have RIV clips (clips that fit between the insulators to reduce corrosion, and thusly, arcing) or double coil spring washers. (washers that have a tempered spring that will take up the expansion & shrinkage of the wood)

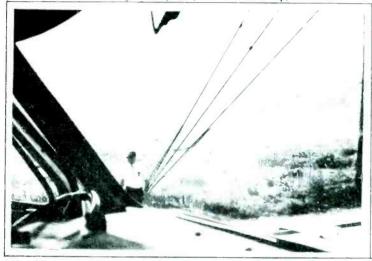
One of the problems that occured in Poway was on a pole set 30-40 years ago, and would not have occured at all if the hardware had of been available at that time. RIV clips are used in all 12KV dead ends now, and are in the spec book to install when a new system is being built. I should note that I had a new home in a tract with all underground utilities. It was built next to a neighborhood that had been there about 17 years, and of course nearby there were areas that had been there longer.



Leo: On every dead end pole, all the bolts are bonded together. Anytime you have a bond wire on a pole there is a chance of a loose connection, and those things transmit further than a corroded dead end. They are a real harsh, coarse buzz. The coarser the buzz the further it will transmit. Most complaints I receive are bases on that type of noise.

Also while living in Poway 1 logged an electric fence. These have a buzz, then several seconds of peace, then buzz, pause, buzz, etc. I'm told an electric fence can be built so it is quite. The buzz is generally caused by arcing from one piece of corroded wire to another when a poor connection is made during installation. Another cause of noise from an electric fence is when there is an arc to ground somewhere along the perimeter, but his is rare. Fences can be fixed.

A DXer can locate and eventually eliminate most noise. To do this you need a battery operated receiver with the AVC off, and a meter across the speaker. Your ear is not usually good enough. Around your own home, <u>before</u> you jump off the deep end, kill all power and see if the noise goes away. You can listen to your progress by holding the radio near the electric meter. In an apartment house it's the only way you can find which unit the noise is coming from. (continued) <u>QRM - The Old Radio Shop - Grant Manning (continued)</u>....To locate the possible source of the noise in an apartment building, start at the meters. Check each meter until you find the noisiest one. If all are the same, you're probably at the wrong place. If you can isolate the noise to one meter (be it your own or another) it's fairly simple to prove by shutting the power off in the middle of the noise cycle. If it goes away, you've got it. Once you get this far it's easy to cut the individual breakers and locate the faulty item. If you are fed from a pole where several homes are fed from, you had best ask your neighbors before cutting their power, even momentarily.



Typical down guy wires

Generally, with a portable radio and lots of patience, one can eliminate, reduce, or at least locate the offending QRM. Most power companies (not all)will try within reason to fix a noisy pole, but they will not re-build the whole neighborhood. Best results are obtained from a letter or phone call to the service section of the power company. Be NICE! Ask, do not demand! You get much better results with honey than you do with vinegar! Remember that it's not a law that they have to fix the noise. It's customer relations, as Leo Gersch explained.

Many DXers l've observed create some of their own problems by doing sloppy wiring jobs. First clean up your own shack before pointing the finger at the power company. Check your antennas and connections. Shake the wires while listening to the radio. Be <u>sure</u> the trouble is outside, and not just a loose ground or something in your house.

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## BOOK REVIEW BY DON JOHNSON

<u>"BCL BOOK 1979"</u> by SPEEDXER Koji Yamada of Tokyo, Japan appears to be another fine book from the prolific hand of this avid hobbyist. Koji has written many fine books and this seems to be in the same vein. If I sound vague, it is only because the book is all in Japanese and I do not count this language among the one I know, hi! About  $4\frac{1}{2}$ " X 6" with nearly 400 pages, this book is well done. Covers all aspects of the radio listening hobby from how to build an antenna to receiver reviews. From how to obtain QSL cards to station schedules. Many pics throughout the book, including some full color QSL cards. There is a wealth of information in the book, if you understand Japanese. Cost to the USA via surface mail is \$5.00. Write to:BCL BOOK 1979, Jitsugyono Nippon, 1-3-9 Ginza, Tokyo 104, Japan to order or to obtain the prices for other parts of the world.

#### FOR SALE

Panasonic RF-2800(\$229.00) and Panasonic RF-2200(\$145.00). Both are new demo units and come with a 2 year warranty. Must sell due to death of owner. Write to: Joseph Rotello Jr., 4734 East 26th Street, Tucson, AZ 85711(phone 602-747-5773).

### HELPING HAND

Bill Coleman Jr., 114 Circle Drive, Rocky Mount, NC 27801(phone 919-443-7282, no collect) would like to hear from DXers interested in RTTY/CW using a video display unit to exchange info. Bill has a DGM Electronics MVD-1000 Morse/RTTY video display, and a FRG-7000. Drop Bill a line or call(11:00PM or after EST) to swap info on tx, freqs, etc.

Each contributors name is preceded by a number, this number indicates how many SPEEDX columns a specific reporter contributed to this month. Credits for sections other than SWBC, QSL, UTE and SKEDS are not listed here, they are recorded separately by the membership chairman by perusing each issue. The \* preceding a number indicates credit is given for points that were missed the previous month.

1 ALEXANDER, RODNEY 1 AUDETTE, DAVID 1 BAKER, BRIAN 2 BARRY, JOE 2 BEEMAN, WILLIAM 1 BEREZOWSKI, ROBBIE *6 BLAIZE, SANDY 1 BODELL, BOB 1 EOEHM, JAMES 4 BOYD, CHARLES W- 2 BRICK, GEORGE 5 BRODSKY, DAVID 2 BROCKWELL, LARRY 2 BRYAN, ERIC 1 BUHAGIAR, ANTHONY *4 BYRON, LESLIE 1 CADY, GEORGE 1 CARTIER, DAN 3 CARTER, DANID 4 CEREGHIN, JOHN 1 CHABAK, MICHAEL 2 CHINAKOS, MICHAEL 1 COLEMAN, BILL 4 COLEMAN, BOB	AZHQ-180 WAFRG-7 NCDX-150A MA
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5 MILLER, BILL 1 MONTGOMERY, HUGH 2 MOODY, PHIL 2 MOORE, DON 2 MORRISON, LEWIS 2 MOUGENOT, ROBIN 2 NAYLOR, SPENCE 1 NEWELL, R.COLIN 3 NIKOLICH, MIKE 2 NORCEOSS DAVID	CADX-160 NYSR-1 ITALYFRG-7 PAXCR-30 NCKT-200 FRANCE.SAT-2100 CAFRG-7 B.CDX-150A ILDX-190 HIR-300
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5 MILLER, BILL 1 MONTGOMERY, HUGH 2 MOODY, PHIL 2 MOORE, DON 2 MORRISON, LEWIS 3 MOUGENOT, ROBIN 2 NAYLOR, SPENCE 1 NEWELL, R.COLIN 3 NIKOLICH, MIKE 2 NORCROSS, DAVID 4 NOVAK, RICHARD 5 OAKLEY, MARJORIE 1 O'BRIEN, JIM 1 OLIVER, WAINE 1 ORLOFF, RICH 2 OSTERMAN, FRED 3 PAGANO, FRANK 2 PALLEN, CHRIS 5 DAW	CADX_160 NYSSR-1 ITALYFRG-7 PAXCR-30 NCKT-200 FRANCE.SAT_2100 CAFRG-7 B.C.DX-150A ILDX-190 HIR-300 CA.FRG-7000 B.CDX-160 MAFRG-7 NJSPR-4 OH.HQ-129X DC6217-E QUEGR-10 ONT DY 160
5 MILLER, BILL 1 MONTGOMERY, HUGH 2 MOODY, PHIL 2 MOORE, DON 2 MORRISON, LEWIS 2 MOUGENOT, ROBIN 2 NAYLOR, SPENCE 1 NEWELL, R.COLIN 3 NIKOLICH, MIKE 2 NORCROSS, DAVID 4 NOVAK, RICHARD 5 OAKLEY, MARJORIE 1 O'BRIEN, JIM 1 OLIVER, WAYNE 1 ORLOFF, RICH 2 OSTERMAN, FRED 3 PAGANO, FRANK 2 PALLEN, CHRIS 3 PASTERNAK, PAUL	CADX-160 NYSR-1 ITALYFRG-7 PAXCR-30 NCKT-200 FRANCE.SAT-2100 CAFRG-7 B.C.DX-150A ILDX-190 HIR-300 CA.RF-2800 CA.RF-2800 CA.FRG-7000 B.C.DX-160 MAFRG-7 NJSPR-4 OH.HQ-129X DC6217-E QUEGR-10 ONTDX-160
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5 MILLER, BILL 1 MONTGOMERY, HUGH 2 MOODY, PHIL 2 MOORE, DON 2 MORRISON, LEWIS 3 MOUGENOT, ROBIN 2 NAYLOR, SPENCE 1 NEWELL, R.COLIN 3 NIKOLICH, MIKE 2 NORCROSS, DAVID 4 NOVAK, RICHARD 5 OAKLEY, MARJORIE 1 O'BRIEN, JIM 1 OLIVER, WAYNE 1 ORLOFF, RICH 2 OSTERMAN, FRED 3 PAGANO, FRANK 2 PALLEN, CHRIS 3 PASTERNAK, PAUL 2 PECK, MARTIN	CADX-160 NYSSR-1 ITALYFRG-7 PAXCR-30 NCKT-200 FRANCE.SAT-2100 CAFRG-7 B.C.DX-150A ILDX-190 HIR-300 CA.FRG-7000 B.CDX-160 MAFRG-7 NJSPR-4 OH.HQ-129X DC6217-E QUEGR-10 ONTDX-160 NY.ICF-5900
5 MILLER, BILL 1 MONTGOMERY, HUGH 2 MOODY, PHIL 2 MOORE, DON 2 MORRISON, LEWIS 2 MOUGENOT, ROBIN 2 NAYLOR, SPENCE 1 NEWELL, R.COLIN 3 NIKOLICH, MIKE 2 NORCROSS, DAVID 4 NOVAK, RICHARD 5 OAKLEY, MARJORIE 1 O'BRIEN, JIM 1 OLIVER, WAYNE 1 ORLOFF, RICH 2 OSTERMAN, FRED 3 PAGANO, FRANK 2 PALLEN, CHRIS 3 PASTERNAK, PAUL 2 PECK, MARTIN 1 DEPEY COLIN	CADX_160 NYSR-1 ITALYFRG-7 PAXCR-30 NCKT-200 FRANCE.SAT-2100 CAFRG-7 B.C.DX-150A HIDX-190 HIR-300 CARF-2800 CARF-2800 CAFRG-7000 B.CDX-160 MAFRG-7 NJSPR-4 OH.HQ-129X DC6217-E QUEGR-10 ONTDX-160 NY_ICF-5900 OUE GFU-2000
2 KUSALIK, EDWARD 1 KUWAYAMA, MIKIO *4 LATTEMANN, JACK 1 LAZARUS, HENRY 1 LEEMAN, JOE 2 LINDSEY, RANDY 2 LOBDELL, CHRIS 1 LORZ, LAWRENCE 1 LOWE, DEREK 3 MACRIS, RANDY *4 MAGHAKIAN, MIKE 3 MAISE, CLARENCE 3 MAPIN, RUSS 1 MARABLE, IVERY *3 MARTIN, GENE 1 MASON, SANDY 2 MATTHEW, RICK 3 MAYER, JIM 1 Mc DONALD, JIM 5 MCWHERTER, IRVING 5 MEILINGER, CRAIG 5 MILLER, BILL 1 MONTGOMERY, HUGH 2 MOORE, DON 2 MORRISON, LEWIS 2 MOUGENOT, ROBIN 2 NAYLOR, SPENCE 1 NEWELL, R.COLIN 3 NIKOLICH, MIKE 2 NORCROSS, DAVID 4 NOVAK, RICHARD 5 OAKLEY, MARJORIE 1 O'BRIEN, JIM 1 OLIVER, WAYNE 1 ORLOFF, RICH 2 PASTERNAK, PAUL 2 PECK, MARTIN 1 PERRY, COLIN	CADX_160 NYSSR-1 ITALYFRG-7 PAXCR-30 NCKT-200 FRANCE.SAT_2100 CAFRG-7 B.C.DX-150A ILDX-190 HIR-300 CA.FRG-7000 B.CDX-160 MAFRG-7 NJSPR-4 OH.HQ-129X DC6217-E QUEGR-10 ONTDX-160 NY.ICF-5900 QUE.GRU-2000

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7	DEMED C DAULD	WW D TOOL		TACOMA GOOME	
	PETERS, DAVID	KY R-390A		TACOMA, SCOTT	CA RF-4800
	PETTIT, LANI	IA.TMF-8000	1	TAGUE, BARRY	OKFRG-7
2	PIMBLETT, NIGEL	ALB. DX-150A	1	TALBOT, LARRY	WIFRG-7
4	PISZCZEK, DAVE	NYPORT	5	THOMPSON, GLENN	NMFRG-7
3	POMPE, PETER BE	LGIUM, HRO-500		THOMPSON, PEGGY	CA. RF-2000
	PRATH, JOHN	FL. FRG-7		TORRE, MARCO	CA. RF-2000
		GLAND SAT-2100	z	TROCHIMCZYK, J.W-GE	
	PYNE, WALTER	MDFRG-7	2		
				TRUEBLOOD, JOE	WIFRG-7
	RADCLIFF, BEN	ILSSR-1		VALENTINE, FRED	CARF-4800
	RADTKE, CARL	CASPR-4		VOLLRATH, RUTH	MOSSR_1
	ROGERS, IDEN	CAR-390A		WALTERS, JOHN	NJR-1530
	ROSEWARNE, ALLAN	CASSR-1	3	WAMPLER, MICHELE	VAR4C
	RUDOLPH, BILL	AL. RF-2200	1	WATSON, DOUG	WIR4C
2	RUSSELL, GARY	ILSSR-1	*4	WEBSTER, JOHN	ALFRG-7
4	RZEPKA, ROBERT	WI RF-2200	1	WENTZELL, ROBERT	MNHQ-150
3	SCHROEDER, ARTHUR	WIDX-160	1	WHEELER, FRANK	KS. DX-160
*1	SCHWEIKART, DAVID			WILLIAMS, DAVID	OR SPR-4
3		NCSPR-4		WILLIS, FRED	PA. SPR-4
í	SHRIDHARANI, VASA			WITTE, MARJORIE	CA. FRG-7
ŝ	SKLARSON, BRIAN	SASK CB-9		WOLTMAN, FRANK	
ž	SKORA, GREG	ONT RF-4800			WIFRG-7
6				WOODS, MIKE	OKRBM_3
2	SMITH, TOM	FL., VEF-204		WORREL, RICK	NDDX-160
2	SMITH, TRAVER	CAFRG-7	5	YAJKO, BOB	PASPR-4
1	SNELLMAN, DAVID	PASSR-1		YOHANA, BILL	NJFRG-7
*3		CADX-160		YOUNG, JAMES	CA HQ-180A
- 5	SNYDER, SCOTT	NYFRG_7	4	ZAVATSKY, MARK	CTPAT-9
1	STEIN, RICHARD	NJ.FRG-7000	'2	ZELASKO, LEO	INSPR-4
5	STICKLE, EDWIN	NYCF-560	4	ZILMER, BOB	WISPR-4
4	STONE, WILFRED	ONT SX-190		ZINK, GEORGE	CASPR-4
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Note: This list does not include the Western Hemisphere column reporters, as Chris Hansen's list has not been received, which has been lost or delayed in the mail. The credits will be listed in the April issue, if the list shows up. We wish to thank 20 first time reporters, they are: William Beeman, OH: George Cady, IL; John Dilk, NJ; Luther Haney, TX; Bill Harms, WA; Randy Hill, MO; Mark Holmes, IL; Phil Jose, MO; Mikio Kuwayama, Japan; Jack Lattemann, WA; Gene Martin, RI; Mike Nikolich, IL; Peter Pombe, Belgium; Iden Rogers, CA; Arthur Schroeder, WI; Vasant Shridharani, NY; Frederick Valentine, CA; Doug Watson, WI; Robert Wentzell, MN; and Marjorie Witte. We also thank 185 loyal reporters, that helped to make this issue possible.

#### KEYNOTES CONTINUED

#### ITEMS FOR SALE

DX-160, 1 year old; \$100.00 ppd. Would be interested in trading for or towards another receiver or equipment. Contact: John Blue, Box 86, Davison, MI 48423. Phone (313) 793-2800 except Thursday and Sunday.

FRG-7 Yaesu; New never used, with fine tuning control. In original carton, with manuel and warranty. \$275.00. Contact: John Catalano, D5 Casa Grande Drive, Liverpool, NY 13088. Phone (315) 652-9026, after 2200 GMT.

Dymek DR-22 receiver, synthesized digital readout, receives long wave through 30 mHz. An excellent DX receiver on all bands, very good condition. Costs \$1,000.00 new, will sell for \$425 plus shipping. Contact: Tom Adams, P.O. Box 1165, Midland, MI 48640. Phone (517) 631-7115, pre-paid only.

Panasonic RF-2800 in mint condition. Excellent receiver, used very little. Will ship in original carton with manuel, batteries, ear-phones, and a new Panasonic RD-9820 Antenna Coupler. \$225 includes UPS. Contact: Allen Black, Rt. 1 Box 378, Longs, SC 29568. Phone (803) 399-6982 0000-0300 GMT.

DX-160, 8 months old, in original carton w/cal. charts & manual. \$125.00 includes UPS. Contact: Mike Feeley, 51 Pond St., Natick, MA 07160. Phone (617) 655-6859.

DX-300 with digital readout, in perfect condition. \$325.00 or best offer. Contact: Steve Handler, 3330 Old Mill Rd. Northbrook, IL 60062. Phone -(312) 433-2802 days (312) 498-0838. nights.

Please be considerate: No collect calls to any of the above, ed.

KEYNOTES	(P.O.Box 697, Milwaukee, W1 53201) FIRST CLASS MAIL to USA/CANADA/MEXICO	THE OFFICIAL DX MAGAZINE PUBLISHED MONTHLY BY SPEEDX BOARD OF DIRECTORSDon Johnson(President), John Trautschold (Vice-President)Bob Butterfield, Bob Bodell, Alan Brooks MANGING EDITORDiiver Elisworth BUSINESS MANAGER/PUBLISHER/TREASURERDiiver Elisworth BUSINESS MANAGER/PUBLISHER/TREASURERDiiver Elisworth BUSINESS MANAGER/PUBLISHER/TREASURERDiiver Elisworth BUSINESS MANAGER/PUBLISHER/TREASURERDiiver Elisworth BUSINESS MANAGER/PUBLISHER/TREASURERDiiver Elisworth BUSINESS MANAGER/PUBLISHER/TREASURERJohn Johnson PROJECTS COORDINATOR
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