

# SPEEDX

*the dx radio magazine for active shortwave listeners*

DON'T FORGET



VOTE

SEPTEMBER 1975

Vol. V - No. IX



# KEYNOTES



## CONGRATULATIONS TO 3 NEW FULL MEMBERS

JOSEPH JACOBSON  
LOCKPORT, IL

LARRY TALBOT  
MENOMONEE FALLS, WI

DOUG KOWALSKI  
W. ALLIS, WI

Certificates of Full Membership and a copy of the SPEEDX Constitution were mailed to each of the above members in August.

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## PEANUT POWER PREAKNESS

A few questions having arisen, we take a little space to answer them:

**POWER:** NO distinction as to whether input, output, PEP or what. EXACTLY as shown on veri.

**ENTRIES:** Would prefer your entries be sent all at one time, not piecemeal. We plan to be busy as a blind cat in a fish market come February and one letter with all your entries thereon will make the evaluating easier. OK?

Until next month, happy DXing to all----Jack--The Gol!

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## SPEEDX WELCOMES THE FOLLOWING NEW ASSOCIATE MEMBERS

GEORGE URAGUCHI  
MONTEBELLO, CA

PETER JERNAKOFF  
LOUDONVILLE, NY

MALCOLM KAUFMAN  
FLUSHING, NY

DONALD ROJEWSKI  
TAGOMA, WA

DOUG KOWALSKI  
W. ALLIS, WI

MARK SCHROEDER  
SARASOTA, FL

JERRY JOLLEY  
GODY, WY

RANDALI McINTOSH  
WOOLRICH, PA

WARNER BRIGHAM  
CHAMPAIGN, IL

BILL O'HIROK  
WHITTIER, CA

DAVID JAKUBIAK  
TROY, MI

LORENZO BENJAMIN  
LOMPOC, CA

JEFF VAN POSSEN  
AKRON, OH

JOHN WRIGHT  
AUSTRALIA

DEAN HOI TAN  
SEATTLE, WA

SPENCE NAYLOR  
N. HOLLYWOOD, CA

IVAN STEVENS  
DENVER, CO

STANFORD SHAW  
LOS ANGELES, CA

JAMES LEAHY  
WORCHESTER, MA

BERNHARD BLOOM  
ARLINGTON, VA

CHRISTOPHER MORRISON  
MIDDLETOWN, NY

We are certainly glad you joined us, remember this is your club, therefore we urge you to support the various columns and sections by sharing your loggings and thoughts with the full membership. We are looking forward to hearing from you often. Do not hesitate to ask questions if you have any. See our July issue for information on our current DX contest, PEANUT POWER.

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## SOUTHERN CALIFORNIA AREA DXERS

SCADS will hold their next meet on October 18 & 19, at the Bel Air Motor Hotel, 140 W. 1st St., Tustin, CA 92680. Time: 9:30 AM (local) Saturday through 6:00 PM Sunday. Registration fee: \$3.00. An interesting program will be offered including a HAP auction. To register, donate material for the auction and your help with the program; write to Don Johnson, PO Box E, Elsinore, CA 92530. Come and bring a friend, a DXer or not.

### SUBURBAN PHILADELPHIA AREA DXERS

The next meeting of SPADES will be on Saturday September 27, 11 AM at the home of Harlan Bye, 917 Wildman Arms, Swarthmore PA 19081. All DXERS in the area are welcome. You may call Harlan at (215) K14-6573 for further information. Go Go Go, I am sure you will enjoy your self.

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### OHIO WEEKEND DX SEMINAR

A reminder that the get together will be held on September 20 & 21 at the Holiday Inn South, 2455 Springboro Road, Dayton, OH. Registration fee \$3.00. Further info may be obtained from Brandon Lovett, 201 Carrlands Drive.... Kettering, OH 45429.

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### WORLD RADIO DX CLUB

They are the oldest DX Club in India, publishing two English bulletins each month, ACTUAL ETHER and DX TELEGRAM. Subscription in USA 48 IRC's. Info may be obtained for 2 IRC's, WDXC, DS/2B, Rest Camp, Gauhati 781012 (ASSAM) INDIA. A good foreign club to join. Tell them that SPEEDX sent you.

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### AUSTRALIAN RADIO DX CLUB

The following Special Publications are available from WDXC, PO BOX 227, Box Hill, Victoria 3128. INDONESIAN SURVEY-published 6/75, 4 pages listing over 120 Indonesian stations, medium-wave & shortwave, monitored in North America and Australia. Sign-on, sign-off, sta. location & schedule data. 5 IRC's airmail. INDONESIA-DXING THE UNKNOWN-published 9/74, A comprehensive summary of the entire Indonesian broadcasting scene. 5 IRC's airmail. INDONESIAN REPORTING GUIDE-published 1/75, how to report in Indonesian to secure maximum response, etc. 6 IRC's. DXING THE USSR-published 6/75, 8 pages, 5 IRC's.

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### MINT STAMPS

Source for mint stamps (unused stamps of other countries) in the USA is: DX Stamp Service, 83 Roder Parkway, Ontario, NJ 14519. Send a SASE for a list of available stamps and prices. Remember, SPEEDX sent you.

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### FOR SALE

Drake SPR-4 in good condition, includes all SWBC crystals plus extras. Contact David Alpert Wyen, 2400 E. Devon, Des Plaines, IL 60018.

Drake R-4C w/matching speaker & phones. Mint condition with Accessory Crystal filter & noise blanker, 15 crystals. \$500.00, contact E I Chapman 101 S 2nd, Apt. 1410 Harrisburg, PA 17101.

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### WANTED AND NEEDED

The East Coast Equipment Manager for HAP is in need of a manual for the Heath GR-64. If you have one you can spare will you please send it to Jack Lackmann, 509 S Main St. Lexington, VA 24450. The HAP equipment managers stores, repairs and ships shortwave equipment to qualified HAPPies.

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All Full Members are urged to vote for three candidates of your choice, be sure and vote today while it is on your mind.

# ANARC '75

## LE REPORTAGE

PAR

DX

# MONTAGE de MONTREAL



VOTRE COMMENTATEUR...Alan W. Brooks...74 Massachusetts Road...Oakdale, Connecticut...06370

**LES DETAILS DE LA CONVENTION SONT ICI-BAS:** With ASWLC columnist Chris Hansen riding shotgun, my wife, myself, and my Maverick departed Friday morning for the journey through New England. Ultimate destination?? The 1975 Convention of the Association of North American Radio Clubs up in Montreal from the evening of August 22nd. Lessons in local geography and solutions to MacDonald's french fry riddles can only occupy so much time in driving the length of Vermont. As a result, the traditional BCB DXing in mobile fashion was a welcome diversion. Where else but Vermont should there be a "WSNO" and a "WSKI"...to say nothing of "WNHV" and "WVMT", the latter with the distinctive hourly identification as "This Is Vermont!". We're still trying to determine whether or not there is any underlying reason why most of the signs along Interstate Route 89 through this area that indicate exits where food might be obtained also direct the way to the hospital. Yet another sign indicated that we were crossing latitude 45°...but since we couldn't think of an appropriate ceremony a-la-crossing the Equator, we made no more of it. Our eventual arrival in Montreal was marked by the news that the Metro, the city's excellent public transportation system upon which many DXers had planned dependence, was out on strike. But there was good news, too! Mike Macken was there to greet us!

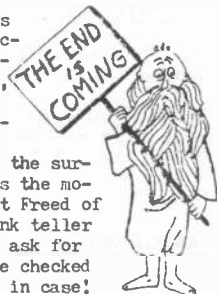


## Radio Canada International



**ICI MAISON DU RADIO CANADA:** Following convention registration at our official hotel, The Windsor, all journeyed northeast to the Radio Canada Building, the official convention site, lying about a mile-and-a-half distant, by various hastily assembled taxi and auto pools. Each of the three days of activity was entitled appropriately...e.g., Friday was "Radio Canada International Day". Festivities commenced with a tour of the CBC facilities beginning in a screening room with twenty...count 'em... TV monitors. Later in the tour we learned that all of the RCI broadcast studios in this new building are situated below the ground level...causing one of our more comedic associates to remark that Radio Canada was in reality "Underground Radio"... After beating him senseless with our souvenir folders, we then dragged his body to Room A2 where the RCI reception officially opened the ANARC '75 Convention...

**C'EST UNE AFFAIRE QUI VOUS INTERESSA, J'EN SUIS SÛR:** The reception was a chance to meet many Radio Canada personalities, Bob Cadman and Ian McFarland of the Radio Canada Shortwave Club, Elaine McMaster, the highly animated Jean-Louis Huard of the French Language Service "A110 DX", Assistant Program Director Axel Thorsson, and Distribution Manager John Ramsey were all present and mingling. Among the initial announcements was the news that the Radio Canada Shortwave Club program would cease after November 1st. The next day the world would hear it. Among the surprises was a blow-up of the August SPEEDX cover posted at the entry as the motif for the convention...popped two shirt buttons on that one. Stewart Freed of SWL International regaled us with recreations of the reaction of a bank teller earlier in the day when in his role as convention treasurer he had to ask for change amounting to a few hundred dollars in small, unmarked bills. We checked out Chris Lobdell's map locating all the MacDonald's outlets, too, just in case!



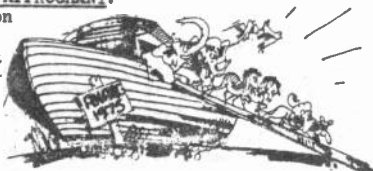
**AVEC CE POSTE ON SE MOQUE DE PARASITES ATMOSPHERIQUE ET DE L'HÉTÉRODYNAME:** Saturday dawned too early for some. It was "Radio Hobby Day" and everyone eventually gathered for the initial event, a review and a preview of receivers and DX equipment by Perry Ferrell of Gilfer Associates. If there was a recurring theme it might have been the continual explosion of the myth that \$\$\$\$ expended on a receiver equals country total. Emphasis was consistently on the skill of the DXer. Here's a salute to all "skilled" fellow DX-150 operators!...



PAR  
Alain G.  
deRUISSEAU

**CE POSTE NE PEUT ÊTRE ÉGALÉ FER AUCUN AUTRE D'UN PRIX APPROCHANT:**

Part of the equipment preview included the introduction of the new Drake SSR-1 receiver. Interested DXers had the post-talk opportunity to compare it to an adjacent Barlow-Wadleigh. Also hooked up were Sanserino prototype pre-selector and calibrator...Another feature of the SSR-1 is the built-in antenna which doubles as a handle in the event you wish to make it a portable... incidentally, WRTVH '76 may be up to \$10.95...Ouch!!!



**SURPRENANT... ILS VOUS ECOUTERONT:** Next item on Saturday afforded a rare chance, indeed. A panel consisting of Ian McFarland of production, Elaine McMaster...now involved in frequency management...and George Jackson from engineering fielded quite open questions ranging from IFRB submissions to Eskimo language transmissions...including an outline of a four-phase program of improvements which call for refurbishment of the African Service Transmitters, replacement of the 50KW antennas with ones of 250KW, installation of two additional 250KW transmitters...all at Sackville...and a projected West Coast relay...listed thus in order of their stated priority...

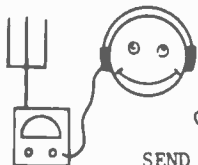
**ET CELA LEUR A DONNÉ GRAND PLAISIR:** The wife and I slipped away to visit "Man And His World" that afternoon. My absence probably explains how Tom Cavaras was able to win the DX Quiz on identification signals and languages. A talk about and an auction for the benefit of the Handicapped Aid Program preceded a 20-minute videotaped showing of a propagation explanation by Dr. David Meisel. The Saturday night banquet was highlighted by the presentation by Executive Secretary Dave Browne of ANARC's Man-of-the-Year for 1975 to Ian McFarland, producer of the Radio Canada SW Club program. The main speaker of the evening, RCI's John Ramsey, leaning heavily on his experience on the "rubber chicken" circuit, ably substituted for ailing scheduled speaker, Pip Duke, by tracing much of the past and speculating on some of the future of Canadian shortwave. Indications were that Canada is withdrawing into "shortwave isolation" after problems in Malta and unstable politics in Portugal. In the post-banquet raffle a potential riot was averted when four prizes went to University of Manitoba DXers...



1975



**AU REVOIR, ANARC '75:** The final day, Sunday, was "ANARC Day". The business of the Association was the feature. Surprisingly, there were actually volunteers for the Public Relations Committee. Later, Tom Cavaras and Jim Roberts outlined the unique beginnings of two associate clubs, the Minnesota DX Club and the University of Manitoba DX Club. But, there was no Woody Seymour and no Jim Whitehead...both were home taking care of business...Woody just got married...Jim already is!...nevertheless, convention time is a time for renewing old friendships and for making new ones. ANARC '75 was no exception...but we echo Kim Elliot's plaintive cry, "Where were the girl DXers?".....



# TECHNICAL TOPICS

Q-MULTIPLIER? GAIN? AVC? IMAGE? ANTENNA? TUNER? CROSS-MOD?

AGC? S-METER? LSB?

**JOHN KOLB**  
12532 ARABIAN WAY  
POWAY, CAL. 92064

SEND YOUR TECHNICAL QUESTIONS TO:



Here we go again, and I'm looking at this blank page, wondering what to say this month because you didn't send me that question that's been on your mind.

It was reported in "HR report" that Drake is about to introduce a new receiver, 0.5-30 MHz in 1 MHz synthesized bands. It will be a portable, operating from 117/234 VAC or 8 internal D cells. It has a built in speaker and telescoping antenna. It's called the SSR-1, and will sell for \$350. (via Lawrence Puckett) Sounds interesting; I'm eagerly awaiting spec sheets.

I feel some comments are in order about the article "Are you grounded?" in the June SPEEDX. It has been recommended many places in the hobby literature that you place a neon bulb or a bypass switch between your antenna and ground. Do NOT put your faith in this protecting against a direct hit by lightning. It may offer some protection against distant lightning strokes, but would be useless against a direct hit. First, let's review a little about lightning. Due to the actions of ionized air, moisture, and air currents within a cloud, the positive and negative charges are separated. Usually, the bottom of the cloud is charged negative, and the top positive. The bottom of the cloud might be at 6,000 feet, and the top at 26,000 feet, so it's easier for the cloud to discharge to earth than to itself. A collection of charges will collect in the earth opposite in charge to the bottom of the cloud. When the charges build up enough, they arc across the air gap, choosing the path of least resistance, which will often include tall objects, which are better conductors than the air path. This is where your antenna enters the picture. The peak current during a lightning stroke will be between 200 and 200,000 Ampe, and rising from 0 to peak value in 1 to 10 microseconds, and dropping off to 1/2 peak value in 5 to 50 microseconds. Voltage has been measured on power lines in excess of 2 million volts as a result of lightning. In the presence of this charged cloud, but in the absence of lightning, currents of up to 500 microamp will flow thru your antenna (and receiver) as cloud discharge currents. In the case of a nearby stroke, the charge in the earth is neutralized, and the charge built up on the antenna (same as the earth charge previous to the stroke) will flow back into the earth. The voltage induced by a lightning stroke depends on the stroke current, distance, antenna height, and antenna impedance. A typical stroke could induce several kilovolts in a typical ant. 1 mile away.

Those are some big numbers; how can we protect against them. A shorting switch or neon bulb will not be completely effective. The current won't all be diverted by the closed switch; it will divide between the two paths, depending on the RF resistance of the paths. (Because of the microseconds duration of the stroke, the current flow will act more like RF than DC current.) It would take very good RF engineering to install the switch in a manner that would make it even 99% effective, and that 1% remainder on a big stroke could put 2,000 amps thru the receiver. The only sure protection is to disconnect the antenna completely, and insure enough distance between the two parted lines than the lightning won't still bridge the gap. In addition, there should be a lightning arrester on the antenna transmission line, and a good ground, without an arrester to provide a safe path to ground, the voltage on the transmission line will be arcing wherever it can find a path, arcing to the house wiring, arcing to the walls, floor, you, whatever's handy. If you use coax transmission line, the best type arrester is one which installs directly in the line with UHF connectors, such as the "Blitz Bug". This should be installed where the transmission line comes closest to your ground system. If you have a single wire lead in, such as from a long wire, you can still use the Blitz Bug type, or the type designed for TV antenna systems, for twin lead.

After writing all this, I'm sure glad we never have lightning here in southern Calif. I'd be afraid to put up any kind of antenna.

Back again next month if you send me questions to answer. If not, not.

**WHERE ARE YOU?** John began this column in FEB 1974 to answer your technical questions. We're honored to have such a well qualified technician and you are not taking advantage of it! Sit down today and send your questions or, suggestions for topics to be covered to John. He can't answer what is not asked!.....HQS-ELSNORE.....dj }



# HAPPENINGS

## HANDICAPPED AID PROGRAM

TED POLING - DIRECTOR  
P. O. BOX 163  
MT STERLING, IL 62353



### SUPPORT WORLD DX HANDICAPPED AID CAMPAIGN

Happenings: After having produced one column, I can begin to see just what responsibilities the column editors have to meet, month after month. The standards are strict and the whole thing has to be done quite carefully. All editors deserve our fullest support. We have been asked several times by different persons to describe how a Hapie comes to us and how we serve him after he is inducted. Individuals are referred to us in various ways: through radio broadcasts, through referral by individuals, by institutions who have received HAP information, and by word of mouth.

When we get a request from a potential member, we send him an application and a list of our services. The application is designed to elicit information about his handicaps, his financial status, hobby experience and interest and other hobbies. The applicant is asked about his receiver needs and which club he wishes to join.

If the Hapie needs a receiver, he is sent 3 copies of the equipment agreement. When they are returned, the equipment manager is notified to send the equipment if available.

If the applicant wishes to join a club, he will be asked to send HAP the applicable fee. The money is forwarded to the club by HAP.

Blind Hapies will be provided with taped bulletins, and a blind dxers course if necessary.

At the time a Hapie is registered his name is sent to our hospitality hostess, who keeps a record of birthdays and sends greeting cards on HAP's behalf. At the same time the Hapies name is sent to Radio Canada Shortwave Club. This membership is free of charge and does not carry the usual reporting requirements. Members are entitled to all the benefits available to any other member.

A Hapie is not forgotten after he has been inducted and given a club membership. Our Pals program is specifically designed to enable HAP to keep in touch with the Hapie and vice versa.

Pals try to provide the Hapie with hobby information and friendship and keeps the HAP organization up-to-date on the Hapies status and any problem he may be having.

It is always our hope that a Hapie will grow in the hobby and will contribute to the clubs of which they are members.

One of our blind Hapies is now working on a Braille edition of our operations leaflet our thanks to her!

HAP had some difficulty in preparing and distributing this year's convention publicity. If we missed anyone we apologize. Anyone who would like a copy should write to HAP headquarters.

HAP needs receivers and other equipment in good or repairable condition.

HAP has been in touch with two institutions-The Craig Institute, a hospital in Denver catering to the handicapped, and the National Paraplegic Foundation, a nationwide organization for the spinal-cord injured and others with paralysis of the legs.

I am grateful to all those who have volunteered to do typin. and clerical work for HAP. HAP NEEDS YOU!

As almost everyone knows by now, HAP is collecting and selling US and FOREIGN stamps. We'd like to ask for the cooperation of bulletin editors, section editors and any others who have numbers of stamps pass through their hands. Don't throw those stamps away; send them to HAP and help us keep our services available!

HAP has always believed in the personal touch and has tried to preserve it in it's contacts with all the persons who write us. But now HAP has grown to the point where it is becoming difficult to write a personal letter to all our correspondents, so we are trying to devise forms which we can use to answer some of our more common requests. When these forms are developed we will be able to answer questions more quickly and completely, and insure consistency in our answers.

Congratulations to SPEEDX on its fourth anniversary!

73 Ted Poling

# SWBC DX - Western Hemisphere

— EDITOR —

E.J. "Jim" Whitehead  
177 Pine Ridge Road  
Reading, Mass. 01867



## RADIO MAM

4825 Kcs

Escuelas Radiofónicas Cobricán Huitán  
CABRICÁN - Quezaltenango  
Guatemala, C. A.

Cabricán, a village high in the mountains of southwestern Guatemala, is the location of that country's newest broadcaster, Radio Mam. Inaugurated on 11 January 1975, only nine months ago, this station beams a limited schedule of educational and culturally oriented programs to the local indian populace. These indians, descendants of the Mayas, belong to the Mam tribe from whence the station takes its name.

Radio Mam broadcasts on its assigned frequency of 4825 khz using a one kilowatt Philips transmitter. Its five hours of daily programming, broadcast from 2200 to 0200 GMT, consists of various educational programs relating to health, agriculture, and cooking, religious featurettes and dramas directed to various age groups, news, and, of course, music of all types including marimba, ranchera, popular, and classical.

A full time staff of four is responsible for day to day station operations although part time help, mostly on a volunteer basis, provides valuable assistance in the preparation and translation of programs. Other programs are obtained from the Federation of Guatemalan Radio Schools, an association of 6 similar stations, of which Radio Mam is a member.

Despite its modest power TGMN has been observed with good level throughout North America perhaps owing to the 9800 foot elevation of the transmitter site. Its assigned frequency is quite crowded, however, and consequently strong interference is often noted. Look for best reception after 0100 GMT.

Reception reports are welcomed and correct reports are verified by a personal letter from station secretary, H. Teresa Herrera, that is often accompanied by a commemorative pennant bearing the station's slogan AMOR, PAZ Y JUSTICIA. Reports should be in Spanish and, of course, mint stamps should be enclosed as a courtesy.

### LATIN POTPOURRI

That Colombian on 5980 khz is TRANSMISORA DE LA INDEPENDENCIA according to Eduardo Rodriguez who reports logging that station with a program of Colombian music around 0330 GMT. Apparently this station, formerly on 4985 khz, has been reactivated and moved to the 49 m.b. although the 60 meter frequency is still being announced.

DXers should take note of a half hour program being aired at 0300 GMT daily by Radio Mexico called MUSICA ENTRE LOS PUEBLOS DE AMERICA. Each program is a musical trip around the hemisphere or a hemispheric region such as the Caribbean and provides the DXer with an excellent opportunity to learn to identify the characteristic music associated with each of the various countries of the hemisphere.

Our gold star this month goes to ace Puerto Rican DXer, Eduardo Rodriguez, for verifying the Colombian, RADIO VEINTE. This station is a CARACOL outlet located in Medellín and was logged by Eduardo around 0430 GMT airing a program called LOS EXITOS on 4857-4863v khz. This could be



RADIO



SWAN

a new station but then again it might be yet another of the many stations that have popped up over the years on the CARACOL carousel on 4865v kilohertz.

One station that has been observed at surprising level lately is RADIODIFUSORA NACIONAL DEL ECUADOR on 4939 khz. Is it possible they have boosted power? Incidentally, those recorded announcements appear to be part of a government public relations promotion touting the assets of Ecuador. One boasts of Ecuador's refrigerators, oil, and progressive spirit.

Apartado 883  
San Pedro Sula.  
Honduras C. A.

Speaking of Ecuador, Eduardo Rodriguez also reports logging Quito based RADIO LIBERTAD on 4775 khz with a program of andean music around 0400 GMT. This station is new to shortwave although it has operated on 1070 khz MW for sometime.

Judging from the number of reports there can't be many left who have not yet logged the new Honduran, RADIO SWAN. Their address, for those who would like to try for a QSL, is Apartado 882, San Pedro Sula, Honduras.

Well, so much for the highlights and down to the nitty gritty. Thanks to 51 reporters this month whose loggings follow. Time, of course, is reported in GMT and dates are given in the month/day format. Reception conditions, as observed and reported, are presented in the SIO format.

ARGENTINA

- 5985 \*0900 LRS2 R. Splendid:w/ sign on after NA, anmts (322 8/7 Bodell-OR)
- 6120 0715 LRX1 R. El Mundo:w/ pgm of tango mx, IDs as "R. El Mundo de Argentina" (433 8/6 Redman-IL)(333 0420 7/29 Snyder-CA)
- 9690 0810 LRA32 R.A.E.:w/ Argentine provincial mx, SS anmts by OM (343, 7/27 Junqua-JAPAN)(444 0635 7/24 Redman-IL)(433 1105 7/24 w/SS pgm "RITMOS UNIVERSALES" tho JJ listed per WRTH at this time Miklejewski-MN)(322 0058 8/13 w/end PP service into SS nx Licklider-MA)(432 0350 8/1 Cleveland-CA)
- 11710 2334 LRA35 R.A.E.:w/ program notes at beginning of EE service (423 7/14 Yajko-PA)(354 2343 7/25 Miklejewski-MN)

BELIZE

- 3300 0459 Radio Belize:w/orchestra mx, IDs,TCs, concluded xmsn with EE prayer, then "God Save the Queen" (233 7/28 Schwartz-DEL) (333 0223 7/19 Thompson-NM)

BOLIVIA

- 4845 0053 CP72 R. Fides:w/baseball game coverage, ads, ID w/ mention of "la capital" (233 7/26 Famularo-NJ)
- 4875 0140 CP75 La Cruz del Sur:w/classical mx, ID (322 7/17 Zimarowski-MA)(443 1030 7/24 w/march mx, ID, YL SS tlk Zilmer-WI)
- 6035 0125 CP92 R. Panamericana:w/pop type music, ID. Some splash from DW on 6040 (332 8/9 Earhart-PA)(332 0402 7/31 Jones-MS)

BRAZIL

- 3385T 0238 ZYF37 R. Congonhas:w/soccer game coverage including the usual excited announcer (342 8/9 Miller-OH)
- 4755 0810 ZYF23 R. Dif. do Maranhão:w/OM PP tlks, Brazilian background mx, ID as "R. Dif. São Luis (333 7/29 Redman-IL)
- 4855 0806 PRC5 R. Clube do Pará:w/ anmts, ID, Brazilian mx (323 7/25 Eagen-PA)(333 0830 7/29 Redman-IL)
- 4985 0425 ZYX2 R. Brasil Central:w/pop Brazilian mx, ID (353 8/9 Earhart-PA)(332 0240 8/1 Snyder-CA)(433 0925 8/3 Zilmer-WI)
- 5015 0420 ZYX24 R. Cultura de Culabá:w/Brazilian ballads, light RTTY chatter makes copy difficult (342 8/9 Earhart-PA)
- 5965 1007 ZYU60 R. Guaiba:w/ nx in PP (343 7/31 Jones-MS)(332 0935 7/19 w/pop mx pgm, TC w/ 3 pips @ 1000, several IDs Beal-WA) (333 0950 9/24 Zilmer-WI)
- 6000 0847 PRK5 R. Inconfidência: w/tlk, jingles (333 7/12 Bodell-OR)(433 0940 7/31 Jones-MS)

BRAZIL (cont.)

- 6015 0203 ZYB85 R. Clube de Pernambuco:w/sports event coverage (353 8/3 Bixby-CA)(222 2345 7/23 Famularo-NJ)(333 0840 8/2 Snyder-CA)
- 6035 0929 ZYZ65 R. Globo:w/singing ID, mx, jingles (333 8/3 Zilmer-WI)
- 6045 0945 ZYS33 R. Clube Paranaense:w/ tlk, music pgm (333 7/24 Zilmer-WI)
- 6055 0915 PRB21 R. Panamericana:w/ tlk, mx, QRM from NSB, Japan (332 8/3 Zilmer-WI)
- 6135 0831 PRC21 R. Gaúcha:w/ads, jingles, Brazilian mx (333 7/12 Bodell-OR)(333 0846 8/2 Junqua-JAPAN)(433 \*0945 7/24 Zilmer-WI)
- 6155 0925 ZYN30 R. Cultura da Bahia:w/ tlk,mx, ID (332 8/1 Zilmer-WI)
- 6165 0925 ZYE419 R. Cultura, São Paulo:w/ mx pgm (333 7/24 Zilmer-WI)
- 6175 0915 ZYV74 R. Guarani:w/ accordian mx, tlk (433 7/24 Zilmer-WI)
- 6185 0857 ZYR77 R. Bandeirantes:w/ Brazilian mx, ID @ 0857 (322 8/1 Beal-WA)(332 \*0930 7/24 Zilmer-WI) Guess s/on variable!!
- 9505 0209 PRB22 R. Record:w/PP pop mx, positive ID and jingle @ 0216 (433 7/24 Bixby-CA)
- 9545 1025 ZYZ43 R. Universo:w/ tlk, Brazilian mx, ID (322 8/5 Zilmer-WI)
- 9591v 0130 ZYN29 R. Cultura da Bahia:w/ tlk, music, many IDs. Seems to have moved down from 9595 to avoid QRM. Heard until 0150 when Radio Nederland signed on (432 7/31 Zilmer-WI)
- 9675 1020 ZYT29 R. Diário da Manhã:w/, PP tlk (222 7/10 Beal-WA)(332 0055 8/6 Zilmer-WI)
- 9695 2345 ZYB61 R. Rio Mar:w/ tlk, mx under QRM (322 8/3 Zilmer-WI)
- 11765 2335 ZYB8 R. Tupi:w/OM and YL chatter (322 8/3 Zilmer-WI)
- 11785 2330 ZYU61 R. Guaíba:w/ newscast, ads (433 8/3 Zilmer-WI)
- 11805 0055 ZYZ65 R. Globo:w/jingles, tlk, ads, mx (333 0055 8/3 Zilmer-WI)
- 11867 0134 ZYC40 R. Sociedade da Bahia:w/soccer game coverage, ID (332 7/24 Snyder-CA)
- 15145 1915 ZYB87 R. Jornal do Comércio:w/OM in rapid PP tlk, apparently a sports event (242 7/13 Beal-WA)
- 15245 2130 PRL8 R. Nacional, Brasília:w/EE travelogue featurette, pop Brazilian mx (444 7/26 Estes-MS)(444 2130 7/28 Redman-IL) (322 2100 8/3 Beal-WA)(433 \*2100 7/16 Famularo-NJ)(433 2056 7/15 w/ BRAZILIAN PANORAMA, THE VISUAL ARTS, other features Miklejewski-MN)
- 15415 2203 ZYR216 R. Clube Ribeirão Preto:w/ads, ID, Brazilian pop mx (353 7/26 Estes-MS)
- 15445 2200 PRL8 R. Nacional, Brasília:w/ nx, ID seemingly "Voz do Brasil" at times (353 7/21 Brooks-CT)(444 2150 7/13 Miklejewski-MN) (433 0015 7/14 Redman-IL)(434 2356 7/14 Yajko-PA)(454 2320 8/9 Earnhart-PA)

CANADA

- 5960 0204 CBC Northern Svc.:w/EE newscast (433 7/13 Yajko-PA)
- 5990 \*1100 BBC (Via Sackville?):w/EE svc. to North America, IS tune, pips all scrambled up with Japan and Colombia (312 8/1 Jones-MS)
- 6005 2140 CFXC, Montreal:w/pop mx, ID, ads, traffic report (333 7/11 Famularo-NJ)(333 2015 7/26 Baron-PA)
- 6070 2315 CFRX, Toronto:w/music, ads, local road report (333 8/10 Kelly-WI) (343 1513 7/15 Paris-MI)(343 1255 6/8 Eagen-PA)(433 1210 8/3 Redman-IL)(342 0545 7/19 Beal-WA)(333 2045 7/13 Famularo-NJ)(333 1635 7/24 Romani-MI)(333 1830 7/27 B ron-PA)
- 6080 1230 CHNX, Halifax:w/DJ show format, definitely here for at least a week before moving back to its usual 6130 khz frequency by 8/9. (454 7/26 Brooks-CT)(233 1800 7/10 Famularo-NJ)
- 6085 0135 R. Canada Intl.:w/MAGAZINE pgm in North American svc. (554 8/7 Deaton-GA)(433 0120 8/7 Kelly-WI)(544 0133 7/12 Famularo-NJ)(444 0300 8/3 Rojewski-WA)
- 6130 1425 CHNX, Halifax:w/DJ Show, temperature (150C), pop mx, ads (343 8/9 Miller-OH)(2511552 7/31 Sputo-FL)(332 2038 8/7 Famularo-NJ)(433 0933 7/15 Paris-MI)
- 6135 0421 R. Canada Intl.:w/ tlk on pop mx & entertainment (544 7/11 Marti-CA)(444 0530 8/4 Jacobson-IL)
- 6175 0200 BBC (via Sackville):w/World svc. rx (353 8/9 Nebron-CA)
- 9605 0725 R. Canada Intl.:w/FF tlk, some mx, Is European svc. which alternates 20 mins of EE & FF to 0800 (444 8/13 Earnhart-PA)
- 9625 2230 CBC Northern Svc.:w/AS IT HAPPENS pgm (333 7/14 Paris-MI) (433 2230 8/4 w/same pgm Rojewski-WA)
- 9650 0100 R. Canada Intl.:w/nw, sports, rx analysis (444 7/31 Thompson NM)(353 0100 8/10 Nebron-CA) (343 0152 8/10 Pimblett-BC)
- 9655 0430 R. Canada Intl.:w/RCSWC-IS series (554 8/16 Miller-CA)

CANADA (cont.)

11720 1530 CBC Northern Svc.:w/THE MAX FERGUSON SHOW (343 8/11 Kannry-NY)  
 11835 0330 R. Canada Intl.:w/SS svc. w/tlk,mx (443 7/15 MacCoy-AZ)(444  
 2330 8/14 Miller-CA)  
 11855 \*2000 R. Canada Intl.:w/FF svc. ID,TC (333 8/5 Eagen-CA)  
 15175 \*1115 R. Canada Intl.:w/EE nx, this frequency in regular use but  
 not announced (342 7/30 Zilmer-WI)  
 15325 1845 R. Canada Intl.:w/EE radio serial THE RUM RUNNERS (433 8/10  
 Redman-IL)(433 1800 8/1 Rojewski-WA)(444 1425 7/28 Sauu-MI)  
 (444 1826 7/19 Yajko-PA)(  
 15365 1614 BBC (via Sackville):w/ opening nx @ 1600 but into special  
 cricket coverage which became almost inaudible due to beam  
 change (--2 7/11 Hauser-OK)  
 17820 1850 R. Canada Intl.:EE African Svc. w/ nx,spts (222 7/30 Romani-MI)

CHILE

9565 0157 CE956 R. Nacional:w/news in FF (333 8/10 Pimblett-BC)  
 9572v 0030 CE957 R. Portales:w/tlk by OM, chimes & ID as "Emisora Diego  
 Portales" (433 8/4 Bixby-CA)  
 9590 0105 CE959 R. Presidente Balmaceda:w/end of INFORMATIVO BALMaceda  
 into pop mx (232 8/13 Licklider-MA)  
 11810 0210 CE1181 R. Nacional de Chile:w/ID, SS nx (434 7/23 Yajko-PA)  
 15150 0208 CE1515 R. Nacional de Chile:w/ EE nx by YL in VOICE OF CHILE  
 pgm (333 7/17 Jakubiak-MI)(333 2100 7/21 Thompson-NM)(322  
 1311 8/9 Jones-MS)(433 2345 8/10 Redman-IL)(344 2310 8/5  
 Schwartz-DL)(333 0220 7/28 Marti-CA)(433 2300 8/13  
 Rodriguez-PR)(444 0114 7/28 Smith-FL)(444 2255 7/26 Estes-MS)

COLOMBIA

4755 0340 HJKC Emisora Nuevo Mundo:w/lively LA mx (332 8/8 Cleveland-CA)  
 4787v 0426 HJLW Ecos del Combeima:w/enthusiastic ads,LA music,ID (232  
 8/9 Miller-OH)(433 0520 7/15 Redman-IL)  
 4857v 0434 HJDK R. Veinte:w/LA mx pgm called LOS EXITOS, is a CARACOL  
 outlet. Frequency is 4857-4863v (444 7/18 Rodriguez-PR)  
 4915 0454 HJSG R. Guatapurí:w/ID,LA mx pgm (433 7/18 Rodriguez-PR)  
 4945 0700 HJDH R. Colosal:w/nx by YL, IDs, TODELAR promos (433 7/13  
 Redman-IL)(434 0950 7/18 Yajko-PA)(332 0410 8/1 Cleveland-  
 CA)(322 0900 7/29 Tannenwald-NY)(332 0734 8/2 Snyder-CA)  
 4955 0455 HJCG R. Nacional:w/news,NA & off @ 0500 (333 8/9 Pimblett-BC)  
 (433 0215 7/16 Redman-IL)(332 0417 8/1 Cleveland-CA)  
 4965 0545 HJAE R. Santa Fé:w/BUENOS AIRES MEDIANOCHÉ (433 7/15 Redman-IL)  
 5075 0900 HJGC R. Sutatenza:w/sign on, mx, tlk, ID (333 7/28 Tannenwald-  
 NY)(434 1013 7/18 Yajko-PA)(444 0207 8/6 Famularo-NJ)(442  
 0327 8/1 Cleveland-CA)(433 0905 7/25 Redman-IL)  
 5095 1034 HJGG R. Sutatenza:w/easy listening mx (433 7/31 Jones-MS)  
 5950v 0830 HJNX R. Super de Medellín:w/tango mx, many IDs (332 8/1 Beal-  
 WA)(242 0457 7/21 Bixby-CA)(333 0505 8/4 Jacobson-IL)  
 (333 0450 8/5 Estes-MS)  
 5990 0435 HJ?? LV de los Centauros:w/ID, freqs, ads, LA music pgm (332  
 7/23 Jones-MS)(333 0435 8/3 Rodriguez-PR)  
 6030 0155 HJZJ R. Nacional:w/clear SS ID as "R. Nacional de Colombia" @  
 0157, into mx (232 7/22 Trautschold-WI)(333 0242 7/31 Jones  
 6040 0445 HJLB LV del Tolima:w/US pop mx, IDs (333 7/13 Redman-IL) -MS)  
 (343 0943 7/30 Jones-MS)  
 6065 0845 HJAX R. Super:w/LA mx,several IDs (322 8/1 Beal-WA)(433 0625  
 7/21 w/ranchera mx Redman-IL)  
 6075 \*0855 HJID R. Sutatenza:w/ID, freqs, tlc, mx (433 7/31 Jones-MS)  
 6085 \*1007 HJTF Ondas del Darién:w/ID, calls, freqs (333 7/23 Jones-MS)  
 6095 0834 HJIW LV del Centro:w/LA mx, tlc, covered by AFRTS carrier @  
 0851 (332 7/18 Junqua-JAPAN)(322 0230 7/27 Rodriguez-PR)  
 (322 0830 8/9 Redman-IL)  
 6115 1010 HJIE LV del Llano:w/ranchera vocals,Colombian mx,ID,TCs (232  
 7/12 Miklejewski-MN)(333 1033 7/23 Jones-MS)(433 \*1000  
 7/24 Zilmer-WI)  
 6160 0700 HJKJ Emisora Nueva Granada:w/ranchera mx, RCN network promos  
 (433 7/15 Redman-IL)(343 0825 7/12 Bodell-OR)(443 0843  
 7/29 Jones-MS)  
 15335 2215 HJZP R. Nacional:w/Colombian mx pgm, IDs, nx @ 2300, continuous  
 mx after nx (443 7/21 Zilmer-WI)(--3,1246 7/22 Hauser-OK)  
 (322 0100 8/1 Trautschold-WI)(--3 0005 8/7 Uraguchi-CA)

COSTA RICA

4832 0535 TIHB R. Capital:w/LA stds, ID (333 8/7 Eagen-PA)(433 0645 8/1 Redman-IL)(322 0830 7/30 Tannenwald-NY)  
 6006 0635 TIHB R. Reloj:w/LA vocals, IDs, het (422 7/19 Redman-IL)  
 6175 1045 TIFC Faro del Caribe:w/tlk, mx, ID (332 7/28 Zilmer-WI)  
 9645 0335 TIFC Faro del Caribe:w/EE rel. pgm, ID (322 8/7 Zimarowski-MA) (433 0440 7/16 Bixby-CA)(222 0440 7/19 Zink-CA)  
 12011 0055 TIHB R. Reloj:w/SS mx pgm, is 2x 6006 harmonic (444 0055 7/25 White-FL)

CUBA

9550 0355 R. Habana Cuba:w/SS mx, tlk, IDs (332 7/28 MacCoy-AZ)  
 9680 1530 R. Habana Cuba:w/ID w/freqs, SS nx (333 7/12 Famularo-NJ)  
 11725 0115 R. Habana Cuba:w/EE newscast (333 8/1 Romani-MI)(433 0153 7/20 Yajko-PA)  
 11760 0400 R. Habana Cuba:w/EE mx request pgm // 11725 & 11930 (554 7/25 Talbot-WI)(444 0115 8/6 Jacobson-IL)(443 0414 7/23 Cleveland-CA)  
 11930 0230 R. Habana Cuba:w/editorialized EE nx (443 8/7 Kelly-WI)(433 0230 8/6 Rojewski-WA)(322 0400 7/31 MacCoy-AZ)(444 0216 7/23 Yajko-PA)(343 0421 8/2 Marti-CA)  
 11970 0100 R. Habana Cuba:w/ID in SS, into speech (333 8/7 Jacobson-IL)  
 15300 1400 R. Habana Cuba:w/SS news bulletin (434 8/1 Sauu-MI)

DOMINICAN REPUBLIC

4850 1037 HILR R. Clarín:w/ CLARÍN INFORMATIVO nx pgm (342 7/14 Jones-MS) (433 0515 7/16 Redman-IL)(322 0830 7/23 Tannenwald-NY)(433 0525 8/7 Eagen-PA)(432 0420 8/2 Cleveland-CA)  
 4880 0450 HJJP R. Comercial:w/LA mx, ID (322 7/12 Pimblett-ALBERTA)  
 4930 0950 HIBE R. Mil:w/ranchera mx, IDs (444 7/25 Redman-IL)(332 0255 7/28 Cleveland-CA)(322 0900 8/1 Tannenwald-NY)(332 0137 7/30 Miller-OH)  
 9505 2145 HISD R. Televisión Dominicana:w/ID, freqs., address, into as story called "La cuidad de la mujer" (343 7/25 Bixby-CA) (433 2145 7/20 Redman-IL)(332 0340 8/1 Cleveland-CA)(222 2200 7/15 Miklejewski-MN)(433 2115 7/30 Famularo-NJ)(323 2125 7/28 Baron-PA)(454 1950 8/5 White-FL)(433 2145 7/14 Jakubiak-MI)

ECUADOR

3280 0310 HCVN7 LV del Napo:w/OM tlk, occasional Ecuadorian mx (241 8/1 Snyder-CA)  
 3390 0432 HCOT1 R. Zaracay:w/ID, ads, Ecuadorian and pop mx (333 7/28 Schwartz-DL)(333 1122 8/2 Bodell-OR)(333 1005 8/2 Snyder-CA)  
 4679 1127 HCWE1 R. Nacional Espejo:w/Andean mx, lots of tlk, ads, TCS (433 8/6 Cleveland-CA)(433 0530 7/15 Redman-IL)  
 4755 0406 HCER5 R. Centinela del Sur:w/MICELANEA MUSICAL JUVENIL LA mx pgm (232 8/3 Rodriguez-PR)  
 4772v 0418 HCDW2 R. Cenit, Portoviejo:w/LA mx, closing anmts by OM off @ 0424 (222 8/9 Miller-OH) Get this after YVNW sign off 0400!  
 4775 0405 HCVP1 R. Libertad:w/Andean mx, sign off @ 0430 with complete ID (332 7/18 Rodriguez-PR)  
 4939v 0245 HXCZ1 R. Nacional del Ecuador:w/Ecuadorian mx, IDs each 1/4 hr (433 7/25 Redman-IL)(433 0404\* 8/6 Cleveland-CA)  
 5970 0445 HCJB LV de los Andes:w/HOBBY OF KINGS pgm (--4,7/20 Miller-CA) (343 0230 8/10 Nebron-CA)  
 6075 0930 HCJB LV de los Andes:w/GG rel. pgm beamed to South America (433 7/18 Yajko-PA)  
 6130 0930 HCJB LV de los Andes:w/DX PARTY LINE (443 7/24 Zilmer-WI)  
 9560 0113 HCJB LV de los Andes:w/UNSHACKLED pgm (433 7/15 Paris-MI)(433 0310 8/8 Pimblett-ALTA)  
 9680 0920 HCJB LV de los Andes:w/quechua svc, slow and melodic andean mx (433 7/27 Snyder-CA)  
 9745 2230 HCJB LV de los Andes:w/SS religious pgm beamed to Europe (422 7/14 Brooks-CT)(333 0205 7/29 Trautschold-WI) John, schedule I have does not list SS from HCJB on this freq. @ the time you list. SS on 15115 at this time.  
 9760 0705 HCJB LV de los Andes:w/end SS svc. @ 0715 into EE svc after ID. (444 7/13 Earhart-PA)  
 11885 0145 HCJB LV de los Andes:w/SS DX pgm (332 7/24 Snyder-CA)

ECUADOR (cont.)

- 11910 0230 HCJB LV de los Andes:w/DX PARTY LINE (544 7/17 Deaton-GA)(343 0230 8/5 Thompson-NM)(433 0232 8/7 Kelly-WI)(444 0230 7/15 Paris-MI)(444 0221 7/28 Baron-PA)  
 15115 1600 HCJB LV de los Andes:w/MORNING IN THE MOUNTAINS (444 8/1 Sputo-FL)(444 1422 7/20 Yajko-PA)  
 15300 2000 HCJB LV de los Andes:w/SOUNDS OF JOY (444 8/5 Romani-MI)(122 2105 7/7 Benjamin-CA)  
 15375 2345 HCJB LV de los Andes:w/JJ rel. pgm (353 7/13 Earhart-PA)  
 17715 1955 HCJB LV de los Andes:w/DX PARTY LINE with review of new book (--3 7/26 Hauser-OK)(333 1930 7/19 Yajko-PA)

EL SALVADOR

- 9576 1440 YSV R. Comercial:w/SS tlk, music, sermonic sounding tlk @ 1453. Is definitely here not on 9546 as reported in SCDX. Het from RAI 9575 khz (--2 7/26 Hauser-OK)

GALÁPAGOS ISLANDS

- 4810 0400 HCVG8 LV de los Galápagos:w/SS tlk, ID & closing anmts. into anthem @ 0404-0408 (--3 7/23 Szot-CA)

GRENADEA

- 5015 2307 R. Grenada:w/relay BBC nx, severe het (212 8/5 Schwartz-DL)

GUATEMALA

- 3300 0325 TGNC R. Cultural:w/BACK TO THE BIBLE pgm (332 7/23 Cleveland-CA)(422 0315 8/7 Redman-IL)(333 0418 8/1 Nebron-CA)(433 0405 8/2 Pimblett-ALTA)(322 0420 8/1 Zimarowski-MA)  
 3325 0218 TGBA R. Maya de Barillas:w/Mayan mx, ID @ 0234 (242 7/26 Rodriguez-PR)(332 0955 8/3 Zilmer-WI)(343 1051 8/9 Miller-OH)  
 3360 0420 TGVN LV de Nahualá:w/mx, LA pop mx, off @ 0435 with NA (222 7/26 Smith-FL)(322 1109 7/20 Rodriguez-PR)  
 4825 0145 TGMN R. Mam:w/tlks by YL, cl mx background(433 7/16 Redman-IL)  
 5955 0400 TGNA R. Cultural:w/EE THROUGH THE BIBLE pgm w/J. Vernon McGee (333 7/19 Thompson-NM)(322 0740 7/19 Beal-WA)  
 6180 0444 TGWB R. Nacional de Guatemala:w/MUSICA BAILABLE Y POPULAR mx pgm (433 8/3 Rodriguez-PR)(322 0145 7/29 Jones-MS)

GUYANA

- 3290 \*0812 GBS Action Radio:w/EE sign on anmts, nx (232 7/21 Zimarowski-MA)(433 0927 8/6 Jones-MS)(--3 0953 8/2 Szot-CA)(422 0915 7/25 w/ East Indian mx, IDs. Heavy QRN, het Redman-IL)

HAITI

- 9770 1136 4VEH R. 4VEH:w/EE mailbag pgm (232 7/26 Miklejewski-MN)(322 1220 8/6 Romani-MI)(333 1804 7/13 Yajko-PA)  
 11835 1120 4VEJ R. 4VEH:w/interview with missionaries, ID (433 8/1 Famularo-NJ)(443 1109 8/3 Zimarowski-MA)

HONDURAS

- 4820 0402 HRVC LV Evangélica:w/ID, AP nx (433 7/17 Deaton-GA)(422 0305 8/8 Redman-IL)(323 0423 7/4 Baron-PA)  
 4920 0945 HRPL3 R. Progreso:w/ranchera mx, Pepsi ads, IDs (433 7/18 Redman-IL)(333 0415 7/28 Snyder-CA)(322 0435 7/23 Cleveland-CA)(353 0435 8/9 Earhart-PA)  
 6125 0002 HRQ R. Suyapa:w/ID, mx, tlk (333 7/28 Trautschold-WI)(433 0125 7/30 w/ jingles, IDs by YL with that SEXY voice Zilmer-WI)  
 6185 0732 HR?? R. Swan:w/LA vocals, ID & slogan, some EE rock mx (232 8/4 Bixby-CA)(332 0800 7/28 Zimarowski-MA)(343 0550 8/7 Bodell OR)(333 0937 7/23 Jones-MS)(432 0745 8/1 Redman-IL)(--3, 0500 7/22 Hauser-OK)(333 1040 8/7 Trautschold-WI)(343 0635 8/7 Laves-TX)(222 1140 8/5 Schwartz-DL)(332 0940 8/2 Snyder-CA)(342 0930 7/27 Zilmer-WI)

MARTINIQUE

- 5995 0226 ORTF. Fort de France:w/FF vocals, OM tlk (434 7/28 Baron-PA)

MEXICO

- 2620 1433 XEC, Tijuana:w/chipmunk voices ID, ranchera mx, is 2x 1310 har. (252 7/17 Bixby-CA)

MEXICO (cont.)

- 6115 0252 XEUDS R, Univ. de Sonora:w/orch mx, ID, 0302\* (343 7/31 Snyder-CA)(444 2100 7/31 Thompson-NM)(443 0012 7/29 Cleveland-CA)  
 6160 0630 XEWW LV de América Latina:w/nx, cmntry, 0650\*(333 7/13 Redman-IL)  
 9705 2100 XERMX R, México:w/Mexican mx, YL multi-lingual ID (443 7/16 Deaton-GA)(444 2230 7/31 Thompson-NM)(353 2102 7/25 Bixby-CA) (352 1753 7/13 Jones-MS)(333 2030 8/3 Redman-IL)(433 0305 7/13 Yajko-PA)(444 0401 7/19 Pimblett-ALTA)  
 15125 0130 XERMX R, México:w/EN UN DIA COMO HOY pgm, ID (353 7/12 Zimarowski-MA)(333 2221 8/10 Licklider-MA)(433 1700 7/15 Redman-IL)(344 0330 7/18 Uraguchi-CA)(454 0225 8/2 White-FL)(443 0018 7/29 Cleveland-CA)(343 1822 7/13 Yajko-PA)  
 15160 1415 XEWW LV de América Latina:w/peppy mx, ads, ID (322 8/9 Miller-OH)  
 15385 2029 XERMX R, México:w/mx, YL EE/FF anmt (554 7/26 Van Fossen-OH) (454 2215 7/13 Earhart-PA)(332 2050 8/10 Jones-MS)(353 2220 8/10 Kelly-WI)(344 2110 7/31 Romani-MI)(444 0030 7/27 Uraguchi-CA)(433 2130 7/31 Sauu-MI)(333 0140 8/6 Jacobson-IL)(322 2100 8/6 Rojewski-WA)(544 2215 7/19 Lewis-PA)(443 0100 8/25 Zilmer-WI)(343 2320 8/4 Nebron-CA)(433 0104 7/20 Yajko-PA)(333 0032 8/5 Schwartz-DL)(253 2105 7/24 Sputo-FL) (423 1755 7/15 Redman-IL)(333 2110 8/3 Trautschold-WI)

PERU

- 4790 1030 OAX8F R, Atlantida:w/ID, tlk mx (322 8/5 Jones-MS)(433 1015 7/25 w/ andean choral mx, IDs Redman-IL)  
 4860 0420 OBZ4Z R, Chinchaycocha:w/LA mx pgm, ID (343 8/3 Rodriguez-PR)  
 4996 0335 OAZ6C R, Andina:w/andean mx, ID (321 8/6 Cleveland-CA)  
 5010 0415 OAX8V R, Eco:w/subdued LA mx, IDs (231 8/5 Snyder-CA)  
 5040 0715 OCY4Y R, Libertad:w/Indian mx, 0845\* (423 7/26 Redman-IL)  
 6095 0425 OAX4H R, Nacional 1080:w/non stop andean mx (333 7/19 Bixby-CA) (343 0305 7/24 Snyder-CA)  
 9505 0525 OAX4V R, América:w/Peruvian mx pgm, ID (333 7/26 Schwartz-DL) (222 1040 7/7 Miklejewski-MN)(--2 1730 7/20 Hauser-OK)(333 0226 8/6 Bodell-OR)  
 9520 1709 OAX4J R, La Crónica:w/TC mentioning Peru (--2 7/20 Hauser-OK)  
 9532v 0405 OAX6G R, Nacional:w/pop mx, many TCs (353 7/19 Bixby-CA)  
 9562 2335 OAX4R R, Nacional:w/TC, ID, traditional Peruvian mx (242 7/25 Bixby-CA)(252 1701 7/20 Hauser-OK)(444 1719 8/1 White-FL) (232 0028 7/23 Snyder-CA)  
 9675 1703 OAZ4L R, del Pacifico:w/hymns, ID (252 7/20 Hauser-OK)  
 9721 1508 OAX4C R, Victoria:w/phone 27-11-95 for tropical mx requests, ads, time 1030, ID as "R. Victoria del Peru"(--3 7/20 Hauser-OK)

TURKS & CAIGOS ISLANDS

- 4788 2320 VS18 Radio VS18:w/EE pop mx, anmts (322 7/25 Zimarowski-MA) (311 2140 7/31 Sputo-FL)

URUGUAY

- 6045 1023 CXA61 R, El Espectador:w/ads, including one for Banco Central del Uruguay, several IDs, nx @ 1031 (322 8/6 Jones-MS)  
 11835 0024 CXA19 R, El Espectador:w/spts featurette, ID, singing station plug, ads, nx (333 7/29 Miklejewski-MN)

VENEZUELA

- 3225 \*1025 YVTC R, Occidente:w/NA, ID & anmts, LA mx (422 7/30 Jones-MS)  
 3245 1024 YVKT R, Libertador:w/ID, TC, ads (242 7/15 Jones-MS)(332 1015 7/27 w/ non Latin instrumental mx, YL ancr Snyder-CA)  
 3295 1016 YVOG R, Trujillo:w/ID, sign on anmts (242 7/15 Jones-MS)  
 3325 0930 YVRA R, Monagas:w/LA mx pgm, TCs (432 7/30 Zilmer-WI)  
 3355 \*1013 YVLC R, Impacto Valencia:w/NA, "muy buenos dias", sign-on anmts terrific UTE QRM (412 7/30 Jones-MS)  
 3365 \*1005 YVQP R, Puerto La Cruz:w/NA, martial mx, IDs, into LA mx pgm (443 7/30 Jones-MS)  
 3395 1005 YVOJ R, Universidad:w/Venezuelan mx, ID (443 7/29 Zilmer-WI) (443 1009 7/30 Jones-MS)  
 4840 1035 YVOI R, Valera:w/TCs, electronic whoops, ads (242 7/14 Jones-MS)  
 6120 \*1000 YVXS R, Angostura:w/ID, sign-on anmts, tlk (433 7/24 Zilmer-WI)(222 1026 7/31 Jones-MS)  
 6170 1056 YVKO R, Nacional de Venezuela:w/cl mx (433 7/25 Zilmer-WI)  
 6180 \*0932 YVSD R, Turismo:w/ NA, martial mx, on with a flair (343 7/23 Jones-MS)(333 0926 7/24 Zilmer-WI)

# SWBC DX EUROPE / AFRICA



**Oy YLEIRADIO Ab**  
The Finnish Broadcasting Company Ltd.  
HELSINKI FINLAND

ROYAUME DU MAROC

Ministère de l'Information

RADIODIFFUSION TÉLÉVISION  
MAROCAINE

Robert Butterfield  
P.O. Box 398  
Belmont, Massachusetts  
02178 U.S.A.

Deadline: 15th  
Times & Dates: GMT  
Frequencies: kHz

## -Africa-

### ALGERIA

- 11810 2138 Radiodiffusion-Television Algerienne: Ar chants (222 7/28 Baron-PA)  
11965 2050 RTVA: Ar chants, tlk, under R. Moscow (211 8/7 Famularo-NJ)

### ANGOLA

- 7245 0535 Emissora Oficial: Port w/ mx (333 7/27 Estes-MS);(231 TENT 1550 8/6 Snyder-CA)  
9533m 0500 Emissora Oficial: (TENT) Port w/ mx, possible ID @ 0505 (222 8/3 Trauttschold-WI);(231 TENT 0535 7/21 Beal-WA);(344 0527 7/30 Bodell-OR)  
9660 0503 A Voz de Angola: Port? w/ tlk (312 8/7 Bodell-OR)

### ASCENSION ISLAND

- 9510 0211 BBC, Atlantic Relay: Eng w/ world nx (333 7/29 Baron-PA); (333 0300 7/26 Thompson-NK)  
15195 0956 VOA via Atlantic Relay: Port w/ Eng ID, no site, prgr to Brazil (354 7/22 White-FL)

### BOTSWANA

- 4845 0355 R. Botswana: Eng w/ cowbell IS, anthem, opening ancmts (131 8/5 Snyder-CA);(151 0405 7/18 Bixby-CA)

### CANARY ISLANDS

- 11800 0324 R. Nacional de Espana, Tenerife: Sp w/ jazz mx, nx @ 0345 (433 8/5 White-FL);(321 0400 7/23 Cleveland-CA)  
15365 0033 RNE, Tenerife: Sp nx (454 8/8 White-FL)

### CHAD

- 7120 1535 Radiodiffusion Nationale Tchadienne: Vern w/ afro tlk, afro mx (242 8/6 Snyder-CA)

### CONGO, REPUBLIC OF THE

- 4765 0428 Radiodiffusion Television Congolaise: Fr w/ IS to 0429, mx intro, 0430 ID in Fr slow and clear (--4 7/28 Szot-CA);(242 0505 8/4 Snyder-CA);(122 0525 8/6 Bodell-OR);(333 0600 7/26 Schwartz-DE)

### EGYPT, ARAB REPUBLIC OF

- 9475 0200 R. Cairo: Eng nx (332 7/17 Day-CA);(333 0215 7/28 Baron-PA); (343 0221 7/20 Yajko-PA);(444 0300 7/15 Paris-MI);(343 0305 7/20 Thompson-NM);(322 0320 8/1 Cleveland-CA);(343 2013 in Ar 8/6 Bodell-OR)  
9805 2245 R. Cairo: Eng nx, sked, IS 2258, s/off 2300 (434 8/1 Leistner-CA);(323 2250 7/22 Romani-MI)  
17920 1405 R. Cairo: Eng w/ ID, mx, "Listener's Club" to S. Asia (443 7/24 Smith-FL);(322 1411 7/24 Deaton-GA);(343 1413 7/20 Yajko-PA)

BE SURE TO MAKE YOUR VOICE HEARD - CAST YOUR VOTE  
IN THIS MONTH'S BOD ELECTIONS!

ETHIOPIA

- 6185 1559 R. Ethiopia: Amharic? w/ IS, IDs, local mx, ads, 1630 nx, 1639 more local mx and ads, hrd daily w/ same general format since 7/9, quite a bit of extra news during coup which unseated Gen. Gowan (333 7/18 Junqua-JAPAN)
- 7165 0330 ETLF: Swahili w/ ID, rel prgr (433 8/4 Snyder-CA);(433 0400 in Eng (433 7/18 Baron-PA)
- 15250t 0515 ETLF: Ar w/ rel sounding mx, tlk, no ID (141 8/3 Trautschold-WI);(333 0430 w/ Eng ID 7/28 Cleveland-CA) Bill confirms your suspicion John. rfb.

GABON

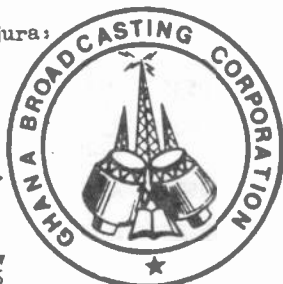
- 4777 2340 Radiodiffusion Television Gabonaise: Fr/vern w/ afro songs, tlk (343 8/1 White-FL);(222 \*0430 7/14 Eichenhorn-MI);(333 0515 8/4 Snyder-CA);(122 0523 8/6 Bodell-OR);(333 7/26 0605 Schwartz-DE)

GAMBIA

- 4820 0731 R. Gambia: Eng w/ BBC nx @ 0731, afro mx to 0759, anthem, s/off 0800 (343 8/8 White-FL) Believe so John. rfb. (222 \*0625 ?? Eichenhorn-MI)

GHANA

- 3350 0604 Ghana Broadcasting Corporation, Ejura: Eng w/ afro nx (332x8/9 White-FL); (--4 0605 7/26 Szot-CA)
- 3366 0607 GBC, Accra: Eng nx // 3350 until end of nx (--4 7/26 Szot-CA)
- 4915 2324 GBC, Accra: Vern tlk to 2350, into Eng (333 8/1 White-FL);(332 0545 in Eng to 0600 7/10 Uruguchi-CA);(333 7/26 0615 Schwartz-DE)
- 4980 \*0600 GBC, Ejura: Eng w/ ID, nx (222 7/14 Eichenhorn-MI)
- 11850 1958 R. Ghana (GBC): Eng w/ prgr review (322 8/7 Deaton-GA);(323 2025 7/16 Famularo-NJ);(322 2045 7/19 Jakubiak-MI);(443 2045 8/4 Bixby-CA);(454 2050 8/7 White-FL)

GUINEA-BISSAU

- 5040 0613 R. Bissau: Port w/ lively vocals, TC's , 0633 positive ID and fqy (252 8/4 Bixby-CA)

IVORY COAST

- 4940 2253 Radiodiffusion Television Ivoirienne: Fr w/ afro mx (333 8/4 White-FL)
- 7215 2210 RTVI: Fr w/ mx, tlk (352 8/7 Earhart-PA)
- 11920 1930 RTVI: Eng mx prgr, ID @ 1957, sked, s/off w/ drums (332 7/14 Bixby-CA);(433 1854 7/14 White-FL);(332 1819 in Fr 8/3 Miller-OH);(332 2345 7/28 Beal-WA);(332 0648 7/13 Earhart-PA);(332 1515 7/21 Eichenhorn-PA)

LESOTHO

- 4800 0459 R. Lesotho: Eng w/ OM ancr, "The news is up, followed by mx", BBC nx, local nx (after 0500 time pips), YL w/ TC, ID, mx (--4 7/28 Szot-CA);(333 0513 8/4 Snyder-CA)

LIBERIA

- 3227 0615 ELWA: Vern w/ mx, tlk (--3 7/26 Szot-CA)
- 7280 0259 VOA, Monrovia: Eng s/on, QTH, afo nx (332 7/10 White-FL)
- 11895 0323 VOA, Monrovia: Sp w/ jazz, nx 0329\* w/ ID and QTH in Eng (443 7/28 Cleveland-CA)
- 17870 \*1558 VOA, Monrovia: Eng w/ IS, ID, "African Panorama" (333 7/19 Zimarowski-MA);(454 2000 7/17 White-FL)

LIBYA

- 6185 \*0400 People's Revolution Broadcasting: Ar s/on w/ anthem, Ok. in Ar to 0410, then call to prayer, Koran to 0425, then nx, my biggie of the month (141 8/7 Snyder-CA) Not often reported here, good catch Doug. rfb.

USE SPEEDX REPORTING FORMS!



MALAGASY REPUBLIC

9585 2001 R. Nederland, Talata: Eng "Happy Station", unlisted fqy (333 7/27 Miller-OH)  
 11740 1228 R. Nederland, Talata: Indonesian progr (443 7/17 Earhart-PA)  
 17730 1513 R. Television Malagasy: Eng w/ "Economic Report", nx (333 7/17 Zimarowski-MA);(343 1520 7/28 White-FL);(443 1600 into Fr (443 7/18 Scannell-MA)

MALI

4785t 2255 R. Mali: Fr? w/ tlk, afro drum @ 2300, more mx to 2340 (222 8/4 White-FL)

MAURITANIA

4850 0725 Radiodiffusion Nationale Mauritanie: Fr w/ TC, ID, nx into Ar @ 0731 (353 7/28 Zimarowski-MA);(222 0718 7/11 Eichenhorn-MI)

MOROCCO

5960 2133 Radiodiffusion Television Marocaine: Ar w/ songs // 6170 (353 8/7 Earhart-PA);(333 2204 7/17 Baron-PA)  
 6170 2154 RTVM: Ar tlk (232 7/12 Eichenhorn-MI)  
 7190 2152 VOA, Tangier: Eng tlk (333 7/28 Famularo-NJ)  
 9615 2040 RTVM: Ar chants, mx, tlk (433 7/29 Famularo-NJ);(333 2120 8/8 Zimarowski-MA) // 5960 6170  
 15205 1835 VOA, Tangier: Eng to Eur (354 7/17 White-FL)

MOZAMBIQUE

9618t 1410 R. Clube de Mozambique: (Port) progr (--- --- Hauser-OK)  
 More details would help. rfb.

NIGERIA

7275 \*0554 Voice of Nigeria (NBC): Eng w/ IS drums, anthem, nx (433 7/11 Jukubiak-MI);(444 \*0555 7/19 Famularo-NJ);(443 0600 7/17 Deaton-GA);(444 0629 8/5 White-FL);(433 0630 7/27 Van Fossen-OH)

RHODESIA

3396 0425 Rhodesia Broadcasting Corporation: Eng w/ 0429 wrapup, 0430 exercise progr, mx, many ads, TCs (333 8/3 Bixty-CA)

RWANDA

7225 0335 Deutsche Welle, Kigali: Swahili w/ vocals, orch mx, tlk (333 7/26 Thompson-NM);(222 0445 in Eng ?? Talbot-WI)  
 15410 2225 DW: Ger w/ mx, IS, ID @ 2235 (342 7/17 Beal-WA)  
 17765 1221 DW: Eng w/ tlk (333 8/2 Zimarowski-MA) // 15410 (353 1220 7/24 Earhart-PA)

SENEGAL

4890 0618 Radiodiffusion du Senegal: Vern w/ chants, tlk, "Senegal" mentioned often, mx (--- --- White-FL) Again, details. rfb.

SIERRA LEONE

5980 \*0600 Sierra Leone Broadcasting Service: Eng w/ s/on, ID, rel progr, mx, ads (444 7/27 Estes-MS);(232 \*0600 8/1 Zimarowski-MA);(--- 0645 7/17-21 Day-CA);(323 0655 7/26 Eichenhorn-MI)

SOUTH AFRICA

3230m 0410 SABC: Eng w/ many commls, mentioned being SABC (343 7/13 Uraguchi-CA)  
 3250 0130 SABC: Eng w/ piano mx, ads (333 8/1 Thompson-NM);(432 0313 7/28 Cleveland-CA)  
 3285 2310 SABC: Eng progr (434 7/29 Scannell-MA)  
 3980 0355 SABC: Eng tlk, mx (332 7/12 Earhart-PA);(333 0530 7/17 Deaton-GA)  
 5980 2250 R. RSA: Eng economic tlk (433 7/22 Yajko-PA);(322 2305 8/8 Miller-OH);(344 2318 7/21 Schwartz-DE)  
 7185 0545 SABC: Eng mx progr (433 7/4 Mecardo-CA)  
 7270 0340 R. RSA: Eng progr (322 8/3 Trautschold-WI)

SOUTH AFRICA (cont.)

9695 2230 R. RSA: Eng nx (322 8/4 Rojewski-WA);(444 2230 8/1 Leistner-CA)  
 11900 2052 R. RSA: Eng w/ IS, s/on to Eur/W. Africa (433 7/31 Romani-MI)  
 15220 \*1259 R. RSA: Eng w/ IS, ID, time pips, nx (333 8/9 Jones-MS); (555 0700 7/8 Smith-FL)  
 21535 \*1100 R. RSA: Eng ID, fqys, nx (232 7/20 Smith-FL)

SWAZILAND

6155 0632 Swazi Music Radio: Eng w/ rock to 0630, nx on half hour (333 8/5 White-FL)

TANZANIA

15435 1940 R. Tanzania: Swahili? w/ tlk, hvy QRM from WYFR 15440 and AFRTS 15430, definitely not BBC (211 7/31 White-FL)

TUNISIA

15225 1944 Radiodiffusion Television Tunisienne: Ar mx, tlk, nx, mx // 11970 (454 7/26 White-FL);(132 2029 8/6 Laves-TX);(332 2103 7/11 Famularo-NJ)

UPPER VOLTA

4815 0620 Radiodiffusion Television Voltaïque: Fr w/ mx, political tlk "Nous continuons la progression de la Liberté ..."  
 (333 7/12 Schwartz-DE)

ZAIRE

15245 0045 La Voix du Zaire: Fr w/ afro mx (443 7/28 Miller-OH)  
 15350 2115 La Voix du Zaire: U/lang tlk (343 8/4 Estes-MS)

ZAMBIA

4911 0500 Zambia Broadcasting Service: Eng nx, no clear ID (221 7/14 Eichenhorn-MI)

-Europe-

ALBANIA

6200 \*0131 R. Tirana: Eng w/ IS, s/on, nx (433 7/18 Famularo-NJ);(422 0140 8/1 Romani-MI);(333 0146 7/17 Yajko-PA);(444 0149 8/11 Smith-TN);(322 0153 7/16 Paris-MI)  
 7120 0325 R. Peking via Tirana: Eng tlk, mx (343+ 7/12 Earhart-PA)  
 9780 0130 R. Peking via Tirana: Eng pol tlk (222 7/29 Trautschold-WI)

AUSTRIA

6155 0113 Osterreichischer Rundfunk: Eng nx (444 7/16 Baron-PA);(322 0148 7/29 Jones-MS);(322 0150 8/1 Romani-MI);(333 0147 8/11 Smith-TN);(333 0350 8/6 Schwartz-DE)

BELGIUM

9755 2255 Radiodiffusion Television Belge: Eng w/ mx (443 6/20 Earhart-PA);(423 2310 8/6 Romani-MI);(434 2315\* 7/23 Yajko-PA)

BULGARIA

9700 \*0000 R. Sofia: Eng w/ ID, nx (433 7/26 Estes-MS);(432 0007 7/20 Earhart-PA);(434 0010 7/24 Yajko-PA);(443 0057\* 7/11 Smith-FL);(444 0035 8/7 Bowen-NOVA SCOTIA);(221 0400 8/2 Beal-WA);(333 \*2130 8/7 Famularo-NJ);(333 2137 7/14 Paris-MI)

CZECHOSLOVAKIA

11990 0305 R. Prague: Eng nx, press review (443+ 7/12 Earhart-PA); (333 1810 7/24 Schwartz-DE);(333 1535 7/26 Romani-MI);(321 0315 8/6 Cleveland-CA)

FINLAND

15185 \*1400 R. Finland: Eng "It's Saturday" (444 8/9 Jones-MS);(211 1400 7/31 Romani-MI);(343 1800 8/2 Zilmer-WI);(212 2258 7/26 Estes-MS)

FRANCE

17800 1700 R. France International: Eng nx, "Paris Calling Africa" // 17860 17725 15425 15360 15300 15210 15200 (232 8/2 Zilmer-WI)

GERMANY, DEMOCRATIC REPUBLIC OF

9730 0117 H. Berlin International: Eng tlk on space flight (433 7/23  
Yajko-PA);(333 0120 7/25 Zimarewski-MA)  
11840 0405 RHI: Eng tlk, 0412\* (332 7/23 Cleveland-CA)  
11890 0330 RHI: Eng mx (342 7/25 Zilmer-WI)

GERMANY, FEDERAL REPUBLIC OF

3995 0340 Deutsche Welle: Eng w/ IS, ID, mx (454 7/23 Smith-FL)  
6040 0139 DW: Eng progr (444 8/11 Smith-TN);(333 0150 7/28 Trautschold-  
WI);  
6145 \*0200 DW: Ger mx, mx (555 7/19 Marti-CA);(545 0218 7/28 Baron-PA)  
7265 0428 Sudwestfunk: Ger w/ mx, IS, ID (322 7/25 Zimarewski-MA);  
(222 0400 8/4 Schwartzs-DE)  
9545 0535 DW: Eng mx (433 7/19 Famularo-NJ);(332 0537 7/22 Day-CA)  
9565 0138 DW: Eng mx (433 7/20 Yajko-PA)  
11795 1730 DW: Eng mx to Afr (433 7/13 Scannell-MA)  
15135 1715 DW: Eng mx to Afr // 11850 (332 8/2 Zilmer-WI);(232 1715  
7/30 Beal-WA)  
15290 2159 R. Liberty, Lampertheim: Russ tlk, IS, ID, jammed (322 7/26  
Zimarewski-MA)

GREAT BRITAIN

6055 0141 BBC: Eng ID, tlk, followed by cl mx (333 7/28 Trautschold-  
WI)  
6175 0230 BBC: Eng progr (444 8/11 Kannry-NY)  
9410 2113 BBC: Eng mx (333 7/28 Baron-PA)  
9510 0008 BBC: Eng mx (444 7/15 Paris-MI)  
9580 0015 BBC: Eng mx, comtry, tlk (333 7/22 Thompson-NM)  
11680 \*0328 BBC: Eng w/ gong IS, ID, mx (231 7/31 Snyder-CA)  
15070 1702 BBC: Eng w/ sports (323 7/12 Sridhar-INDIA)  
15335 1115 BBC: Eng w/ press rvw, unlisted (343 8/2 Zilmer-WI)  
18080 1259 BBC: Eng ID, time tone @ 1300 and Chinese svc w/ mx, tlk  
(242 7/20 Mulcahy-ENGLAND)

GREECE

7160 0640 VOA, Kavala: Fr w/ tlk // 7135 (454 8/9 Earhart-PA)  
7275 0227 VOA, Kavala: Eng s/off w/ site (454 7/12 White-FL)  
7280 0350 VOA, Kavala: Eng tlk (322 8/3 Trautschold-WI)

HOLLAND

9715 2130 R. Nederland: Eng mx, progr preview (444 7/14 Paris-MI);(443  
2200 7/22 Deaton-GA);(322 2140 7/28 Baron-PA)

HUNGARY

7220 0400 R. Budapest: Eng "Calling DIers ..." (343 7/26 Smith-FL)  
9655 2130 R. Budapest: Eng mx, comtry (432 8/6 Zilmer-WI)  
11910 0355 R. Budapest: Eng w/ fqy ancmts, ID, mx @ 0400, HCJB QRM  
same channel (231 7/30 Snyder-CA);(433 2141 7/28 Famularo-  
NJ)

ITALY

9575 0106 Radiotelevisione Italiana: Eng mx (333 8/7 Bowen-NOVA  
SCOTIA);(444 0112 7/23 Yajko-PA)  
11810 0100 RAI: Eng mx (222 7/30 Nebron-CA);(231 0110 7/24 Snyder-CA);  
(444 0125 8/6 Jacobson-IL);(343 0235 7/24 Day-CA);(232 7/22  
0105 Beal-WA);(333 0110 7/22 Thompson-NM)  
11905 2200 RAI: Eng w/ fqy, mx, Ital mx (433 8/3 Zilmer-WI)  
15385 1830 RAI: Ital w/ ID, mx (7/17 Schwartzs-DE)

LITHUANIAN SSR

11870 0248 R. Moscow, Kaunas or Vilnius: Eng tlk on space flight,  
according to DI Jukebox this xmtr site is in Lithuania  
(343 7/18 Smith-TN)

LUXEMBOURG

6090 0000 R. Luxembourg: Eng w/ "208 Radio News", rock mx (433 7/20  
Deaton-GA);(333 0005 8/5 Schwartzs-DE);(444 0015 7/28 Baron-  
PA);(444 0100 7/14 Famularo-NJ)

MALTA

6100 0157 DW, Cyclops: Eng mx (444 8/11 Smith-TN)

MONACO  
11760 0702 Trans World Radio: Eng rel prgr (222 8/10 Zink-CA)

NORWAY  
9645 0158 R. Norway: Norw w/ request prgr (443 7/31 Zimarowski-MA);  
(433 0405 in Eng 8/3 Bixby-CA)  
15175 0023 R. Norway: Norw folk mx, Eng ID (333 8/5 Schwartz-DE)  
17795 1600 R. Norway: Eng nx, commtry // 15175 (333 8/3 Zilmer-WI);  
(433 1628\* 8/3 Deaton-GA)

POLAND  
11815 0300 Polish R.: Eng nx, tlk, mx (332 7/23 Day-CA);(322 0307  
7/12 Zink-CA);(232 0310 7/11 Beal-WA)  
11840 0330 Polish R.: Eng w/ s/oof into Polish (211 7/23 Deaton-GA);  
(222 0234 7/31 Talbot-WI) // 11815

PORTUGAL  
6025 0232 R. Portugal: Eng ID, nx, mx (344 8/2 Marti-CA)  
7190 0415 R. Free Europe, Lisbon?: Polish prgr, ID (332 8/4 Snyder-  
CA)  
9670 2154 Adventist World, R.: Eng rel tlk (322 7/13 Miller-OH)  
11935 0230 R. Portugal: Eng mx, tlk (221 7/22 Day-CA);(433 0251 7/13  
Yajko-PA)

ROMANIA  
9690 \*2100 R. Bucharest: Eng nx (333 7/26 Romani-MI);(343 2110 7/14  
Famularo-NJ);(433 2113 7/14 Paris-MI)

SICILY  
6060 2330 Radiotelevisione Italiana, Caltanissetta: Fr and Ger nx, ID,  
"Notturmo dall'Italia" (333 7/21 Schwartz-DE)

SPAIN  
11925 0133 R. Nacional de Espana: Eng w/ Sp mx // 6065 (323 7/20  
Yajko-PA);(342 0200 7/30 Day-CA);(343 0210 7/18 Thompson-  
NM);(322 0308 8/6 Cleveland-CA)

SWEDEN  
9695 0241 R. Sweden: Eng prgr, mx (232 8/11 Smith-TN)  
11705 0028 R. Sweden: Various languages w/ IDs and IS to 0031 (343  
8/5 Miller-OH);(242 \*0228 in Eng 7/22 Nebron-CA);(333 0230  
7/23 Day-CA);(332 2300 7/31 Sputo-FL);(444 2315 7/31  
Romani-MI);(222 2315 7/22 Beal-WA);(443 2320 7/22 Deaton-  
GA)  
15315 1235 R. Sweden: Eng DX prgr - SCDXers (333 8/5 Schwartz-DE);  
(444 \*1400 7/20 Yajko-PA)

SWITZERLAND  
6135 \*0145 SBC: Eng s/on (434 8/11 Smith-TN);(444 0150 8/7 Jacobson-  
IL);(545 0210 7/29 Baron-PA)  
6160 0245 SBC: Eng prgr // 9725 11715 (322 7/28 Berstein-GA)  
7210 \*0600 International Committee of the Red Cross, Geneva: Eng s/on  
followed by Red Cross nx in Eng, Fr, Sp, Ger, and Ar (This  
station is only on three times every other month using  
SBC's xmtrs. Next transmissions are scheduled for Sept.  
22, 24 and 26) (332 7/23 Zimarowski-MA)  
9725 \*0145 SBC: Eng s/on, nx (544 7/22 Smith-AL);(433 0145 7/17 Yajko-  
PA);(454 0445 7/23 Beal-WA)  
11715 \*0428 SBC: Eng w/ s/on to WCNA // 9725 (333 7/29 Snyder-CA);(443  
0430 7/21 Day-CA);(544 0145 8/8 Scannell-MA)  
11870 2100 SBC: Eng nx (332 7/27 Zilmer-WI)  
15140 \*1315 SBC: Eng w/ IS, ID, TC, nx to NA (333 8/9 Jones-MS);(333  
1328 8/6 Schwartz-DE);(333 1330 7/22 Thompson-NM);(434 1330  
7/20 Yajko-PA)

UKRAINIAN SSR  
11735 2300 R. Moscow, Vinnitsa: Eng nx, commtry, DX prgr, site verified  
(332 7/29 Snyder-CA)  
15455 1739 R. Moscow, Simferopol (HS): Russ prgr of mx, tlk (333 7/19  
Mulcahy-ENGLAND);(343 1930 8/3 Trautschold-WI)

USSR

9600 0150 R. Moscow: Eng commtry (332 8/4 Jones-MS)  
 11720 0025 R. Moscow: Eng tlk on space flight, 0030\* (242 7/24 Snyder-CA)  
 \*0030 R. Kiev: Ukrainian w/ 9 note IS, s/on (242 7/24 Snyder-CA) (333 \*0300 in Eng 7/12 Famularo-NJ)  
 11750 0015 R. Moscow: Eng prgr // 11720 (232 7/24 Snyder-CA)  
 11770 0040 R. Vilnius: Eng tlk (433 7/27 Jakubial-MI)  
 11870 0200 R. Moscow: Eng prgr to NA, mx, ID, nx, mailbag prgr with answer to my letter (342 7/20 Smith-FL) What was the question? rfb.  
 15210 0040 R. Kiev: Eng w/ mailbag (332 8/2 Beal-WA)

VATICAN STATE

9645 \*2030 R. Vaticana: Eng rel prgr, tlk, nx (544 7/15 Jakubial-MI); (333 2031 8/5 Famularo-NJ)  
 11845 0050 R. Vaticana: Eng w/ IS, ID @ 0100, mx play (343 7/23 Thompson-NM); (555 0057 8/6 Jacobson-IL); (322 2120 7/13 Yajko-PA)

YUGOSLAVIA

9620 \*2200 R. Belgrade: Eng s/on (432 7/22 Scannell-MA); (322 2158 7/16 Deaton-GA)

-Addendum-

BYELORUSSIAN SSR

15505 1747 R. Moscow, Orsha: Russ organ and Balalika mx (443 7/19 Mulcahy-ENGLAND)

-Clandestine-

CLANDESTINE

12140 2125 R. Espana Independiente: Sp w/ tlk, brief mx selections // 10110, jammed (333 7/23 Zimarowski-MA)

EUROPE/AFRICA ROUNDUP:

Ciao! A quick txn to new reporters: "Snapper" Estes, Dave Jakubial, E.P. Larson, Randy McIntosh, Marjo Mercado, D.E. Rojewski, G. Uraguchi, and Jeff Van Possen. Keep those reports coming.

Don't forget Full Members! Send your ballots in!

The economic squeeze: John White sends this from the Miami Herald 4 August 1975.

By MICHAEL COPE  
 Special To The Herald

LONDON — The propaganda war of the airwaves which has raged back and forth across the iron and bamboo curtains for the past 30 years is perceptibly cooling, not because of political East-West detente, but because inflation is pricing the broadcasters out of business.



Cope

The result is that both Russia and China are now beaming their viewpoint further and more often than the Western Allies. But because Moscow and Peking are expending much of their broadcasting resources beaming into each other's country to get their conflicting ideological viewpoints across, the West is still marginally ahead.

But the two biggest western stations, Radio Liberty and Radio Free Europe which transmit from Munich in West Germany, are having to make massive cuts since the U.S. Congress, which bankrolls their operations, has cut their grants by nearly \$4,000,000 this year.

EVEN the British Broadcasting Corporation's external service has had its budget cut by nearly \$2,000,000, while France has abandoned all its transmissions to eastern Europe.

The two American-financed stations in Munich have decided to pool their facilities and cut their staff of 1,250 by at least 100. The BBC is meeting its budgetary cuts by reducing the number of hours it beams into Communist countries.

Peter Fraenkel, head of the BBC's East European Service, said: "Our broadcasts are still the main way in which people of the eastern bloc get to know what people here are doing, what the newspapers print, how we see the world and that we have a human face."

"Now that the Communist regimes are not quite the close, rigid, monolithic systems they once were, it is even more important that we should talk to them over the air."

ON the other side of the ideological frontiers, the Communists have spent an estimated \$120,000,000 establishing sophisticated jamming transmitters around the main cities in Russia, Czechoslovakia, Poland and Bulgaria to block out the free flow of information.

China also is spending millions of dollars; in the past 15 years Peking has more than doubled the number of hours it transmits its propaganda to nearly 1,500 hours weekly. Even tiny Albania with its sexy-voiced female Australian announcer, is now programming 470 hours a week using 2,000 kilowatt transmitters supplied by China.

Radio Liberty's London bureau chief, Leonid Vladimirov, says it is estimated that 35,000,000 people in Russia tune in each month to the station, while as many again in other Iron Curtain countries listen to Radio Free Europe.

Much of the 2,000 hours a week broadcast by Moscow in 80 languages is beamed to underdeveloped nations in Africa, Asia and South America. Russia has more than trebled her output in the past 20 years and today is the busiest country in the worldwide propaganda radio war.

But how many in Western Europe listen to the Communist broadcasts? Apart from the assiduous monitoring by most Western nations, it is estimated that less than 1,000,000 people are regular listeners with possibly 500,000 dial-tweadders picking up one of the Communist transmitters, but surveys suggest the average listening time of this last group is only 3.7 minutes.



FB, Bd

# ASIA-OCEANIA

BOB BODELL - EDITOR  
5230 S.E. 48th AVE  
PORTLAND, OR 97206

DEADLINE: 15<sup>th</sup> of the month



## ASIA



FREQ TIME SIO LOCATION

BANGLADESH

15530 1246 131 OR R. Bangladesh: Asian music (Bodell 7/31)

BRUNEI

4865 1405 343 OR R. Brunei, Berakas: nx in Bahasa Malaysia (Jessen)  
7215 1315 222 WA RB, Tutong: Eng w/pop mx, 1430\* (Beal 7/19)(Cleveland)

BURMA BROADCASTING

SERVICE

BURMA

5040 1125 232 TX BBS: Burmese & Asian mx (Laves 8/8), (Zilmer 7/20), (Cleveland 7/18), and in Eng @1415 (Jessen 8/8).....

CHINA, P. R. OF

PLA=People's Liberation Army

2475 1120 332 CA Chekiang JKT, Hangchow: Chi tlk by YL (Cleveland 8/6)  
2485 1325 333 JAPAN PLA Fukien: Chi tlk, // 2430, 3200, 3400 (Junqua)  
3310 1027 141 CA Changchun JKT: dramatic pgm by OM in Chi (Snyder 7/27)  
3900 1115 342 WA Hailar: Mongl. annx, choral mx by OM (Beal 7/27)  
3940 1155 222 WA Hupei JKT: Orch mx, anth, 1200 TPs (Beal 7/27)  
4020 1408 332 JAPAN R. Peking: Eng nx by OM, 1409 ID (Junqua 7/14)  
4045nf 1035 343 CA PLA Fukien: Chi tlk, // 4330, 4380 (Snyder 7/27)  
4130 1240 232 OR RP: OM tlk in Chinese (Jessen 7/16)  
4190 1322 444 CA RP: Chi music, new freq? (Sztot 7/25)  
4380 1135 433 CA PLA Fukien: Chi tlk by OM (Cleveland 8/6)  
4840 1510 222 OR PLA Fukien: Chi tlk by OM (Jessen 8/9)  
5030 1608 343 JAPAN RP: Eng nx by OM, 1610 ID (Junqua 7/23)  
5320 1215 242v CA RP Home Svce 1: Chi tlk by OM/YL (Snyder 8/6)  
5935 1255 222 CA Lhasa, Tibet: YL tlk, 1300 ID, 1315 f/o (Leistner)  
6176m 1215 333 CA Shensi JKT: OM/YL tlk in Mandarin (Snyder 8/12)  
6225 1345 433 CA RP: Chi tlk by OM, CW QRM (Cleveland 7/16)  
6290 13?? 422 CA RP: Eng tlk by OM, CW QRM (Cleveland 7/16)  
7120 0355\* 333 FL RP: Eng nx, cmt, S/off w/"Internationale" (Smith)  
7190 0850 242 CA RP: Chi mx, Chi tlk by OM (Snyder 7/27)  
7480t 1405 332 CA RP: JJ tlk, mix w/ Pathet Lao, 1400 Chi (Snyder 8/6)  
9440 1250 222 MN RP: Chi tlk, mx, 1255\* (Miklejewski 8/3)  
9548 1801 333 CA RP: IS, RR ID, march mx, RR pgm (Sztot 7/28)  
9860 1630 322 WA RP: Eng w/ Chi slogans to mx by group (Beal 8/2)  
9920 \*1400 443 JAPAN RP: Home Svce in Kazakh w/ tlk, mx, 1455\*, in Uighur from 1300 to 1355 (Junqua 7/19), and (Snyder 8/12)  
11375 \*1230 343 MN RP: RR w/ 'Govorit Peking' (Miklejewski 8/3)(Zilmer)  
11505 1058 332 WI RP: tlk in u/lang, mx (Zilmer 7/31)  
11515 1050 243 MN RP: Chinese w/ Opera mx, YL tlk (Miklejewski 8/3)  
11535 0650 252 CA RP: Chi tlk by YL (Dawson 7/29)  
11685 1240 332 MI RP: Eng tlk on PLA, mx, ID (Romani 7/31)(Smith FL)  
11695 1203 242 MN RP: Eng w/ nx by OM (Miklejewski 8/3)  
11945 0405 332 CA RP: Chi tlk, mix w/ BBC, jammer (Snyder 7/30)  
15060 0300 322 WA RP: Eng w/ nx, cmt, (Rojewski 8/1), @0110 Schwartz DE, Marti CA, MacCoy AZ, Romani MI, Yajko PA, Thompson..  
15095 0455\* 343 CA RP: Eng w/ closing annx (Snyder 7/29), (Leistner 8/1)  
15165 0340 232 CA RP: pure Chi mx, // 15060 (Snyder 7/30)  
15270 \*0900 333 JAPAN CJKT: Chi tlk by OM/YL, // 15250 (Junqua 7/21)  
15385 0300 222 WA RP: Eng cmt, (Rojewski 8/6), Day CA, and MacCoy AZ

CYPRUS

15420 0450 242v CA BBC Limassol: Eng tlk on economics by YL (Snyder 8/9)

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with  
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**DOUG SNYDER**

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City	JAN	FEB	MAR	APR	MAY	JUN
1. Anchorage	0056-1900	0219-1737	0340-1616	0509-1447	0629-1327	0723-1233
2. McMurdo Base	24hr day	24hr day	0745-1815	0344-2216	24hr nite	24hr nite
3. Darwin	0937-2057	0929-2105	0919-2115	0909-2125	0900-2134	0855-2139
4. Perth	1114-2120	1039-2155	1023-2211	0953-2241	0928-2305	0915-2319
5. Thimbu	1114-0048	1133-0029	1156-0006	1221-2341	1241-2321	1253-2309
6. Manaus	2205-0955	2203-0957	2201-0959	2158-1002	2156-1004	2155-1005
7. Calgary	2339-1533	0030-1442	0124-1348	0224-1248	0314-1158	0343-1130
8. Halifax	2042-1144	2120-1105	2203-1023	2250-0935	2330-0856	2335-0853
9. Montreal	2119-1227	2159-1147	2243-1103	2352-1014	0012-0934	0035-0911
10. St. John	1949-1111	2032-1028	2119-0941	2212-0848	2256-0808	2329-0731
11. Toronto	2151-1245	2228-1208	2308-1127	2354-1042	0032-1004	0053-0943
12. Vancouver	0023-1601	0110-1517	0200-1424	0257-1327	0343-1241	0410-1217
13. Fukien	0924-2252	0942-2234	1003-2213	1027-2149	1046-2130	1056-2120
14. Harbin	0758-2308	0838-2228	0923-2143	1013-2053	1054-2012	1118-1948
15. Urumchi	1041-0139	1119-0101	1200-0020	1247-2333	1326-2254	1347-2233
16. Rhodes	1501-0515	1529-0447	1600-0415	1636-0340	1705-0311	1721-0255
17. Galapagos Is	2359-1157	2358-1158	2358-1158	2358-1158	2359-1159	2359-1159
18. Bombay	1238-0140	1251-0127	1306-0112	1322-0056	1336-0042	1343-0035
19. Gauhati	1108-0038	1127-0019	1148-2358	1212-2334	1231-2315	1242-2304
20. Ambon	0932-2122	0930-2124	0928-2126	0925-2129	0923-2131	0921-2133
21. Bali	1032-2206	1027-2211	1020-2218	1013-2225	1008-2230	1004-2234
22. Bandjarmasin	1027-2217	1025-2221	1023-2221	1020-2224	1018-2226	1016-2228
23. Djajapura	0840-2034	0839-2035	0837-2037	0835-2039	0834-2040	0833-2041
24. Kupang	1002-2130	0956-2136	0948-2144	0939-2153	0932-2200	0928-2204
25. Pandang	1121-2317	1120-2318	1119-2319	1118-2320	1118-2320	1117-2321
26. Ujung Pandang	1010-2154	1007-2157	1003-2201	0959-2205	0955-2209	0953-2211
27. Tromso	24hr nite	1414-0718	1619-0513	1832-0300	2101-0030	24hr day
28. Rawalpindi	1207-0209	1233-0143	1301-0115	1334-0042	1400-0016	1414-0002
29. Caltanissetta	1554-0614	1623-0545	1656-0512	1734-0430	1804-0404	1821-0347
30. Boston	2120-1208	2156-1132	2235-1053	2319-1009	2355-0933	0016-0912
31. Chicago	2228-1312	2303-1237	2341-1159	0024-1116	0100-1040	0119-1020
32. Los Angeles	0051-1455	0117-1429	0146-1400	0219-1327	0258-1248	0300-1245
33. New York	2138-1214	2211-1141	2247-1104	2329-1022	0003-0949	0022-0930
34. San Francisco	0059-1519	0128-1450	0201-1417	0238-1339	0309-1309	0326-1252
35. Alma Ata	1125-0219	1202-0142	1243-0101	1328-0016	1406-2338	1428-2317
36. Arkhangelsk	1139-0659	1324-0514	1458-0340	1641-0158	1818-0020	1933-2305
37. Ashkhabad	1254-0318	1324-0248	1352-0220	1436-0136	1507-0105	1524-0048
38. Baku	1323-0359	1356-0326	1433-0250	1514-0208	1548-0134	1607-0115
39. Dushanbe	1212-0238	1259-0225	1317-0133	1356-0054	1427-0023	1445-0005
40. Frunze	1136-0228	1212-0152	1253-0111	1338-0026	1415-2349	1436-2328
41. Irkutsk	0901-0105	0954-0012	1050-2316	1153-2216	1246-2120	1318-2048
42. Khabarovsk	0714-2246	0800-2200	0849-2111	0944-2016	1030-1930	1056-1904
43. Kiev	1404-0552	1453-0503	1546-0410	1645-0311	1734-0222	1804-0152
44. Magadan	0509-2245	0624-2130	0740-2014	0903-1851	1014-1740	1105-1649
45. Minsk	1402-0620	1458-0524	1558-0425	1703-0319	1800-0222	1833-0149
46. Petr.-Kamch.	0519-2131	0614-2036	0712-1938	0816-1834	0912-1739	0944-1706
47. Riga	1357-0651	1502-0546	1609-0439	1723-0325	1827-0221	1807-0141
48. Sverdlovsk	1030-0326	1135-0221	1243-0113	1357-2359	1502-2254	1543-2213
49. Tallin	1336-0708	1451-0553	1605-0435	1727-0317	1840-0202	1927-0117
50. Tashkent	1202-0244	1236-0210	1314-0132	1357-0049	1432-0014	1452-2354
51. Tbilisi	1339-0423	1413-0349	1452-0310	1535-0227	1611-0151	1631-0131
52. Vilnius	1405-0633	1504-0534	1605-0433	1713-0325	1812-0226	1847-0151
53. Vladivostok	0745-2239	0822-2202	0903-2121	0948-2036	1026-1958	1047-1937
54. Yerevan	1344-0420	1417-0347	1454-0310	1535-0229	1608-0156	1627-0137
55. Lhasa, Tibet	1103-0047	1125-0025	1149-0001	1217-2333	1239-2311	1252-2258
56.						
57.						
58.						
59.						
60.						

The preceding five spaces were left blank to provide you adventurous dxers with an opportunity to fill them yourselves, using the information given on page 4 of this supplement on how to compute SS-SR times for anyplace in the world without maps. The times can be computed manually (using trig. and log. tables) or more easily by using a calculator that contains trig. functions.



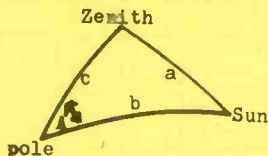
JUL	AUG	SEP	OCT	NOV	DEC	GRID COORDINATE	
0702-1254 24hr nite 0857-2137 0920-2314 1248-2314	0548-1408 24hr nite 0904-2130 0940-2253 1231-2331	0422-1534 0559-2001 0914-2120 1009-2225 1208-2354	0259-1659 0942-1618 0924-2110 1038-2156 1144-0048	0131-1825 24hr day 0934-2100 1105-2129 1121-0041	0034-1922 24hr day 0939-2055 1119-2115 1110-0052	149.88W 165.00E 130.83E 115.83E 89.65E	61.27N 77.50S 12.47S 31.93S 27.47N
2155-1005 0329-1143 2330-0841 0024-0922 2313-0748	2157-1003 0245-1227 2311-0915 2319-0957 2234-0826	2159-1001 0153-1319 2226-1000 2307-1039 2144-0915	2202-0958 0054-1429 2141-1045 2218-1128 2054-1006	2204-0956 2355-1525 2058-1128 2131-1214 2006-1056	2205-0955 2330-1543 2034-1152 2111-1235 1939-1121	60.00W 114.08W 63.60W 73.57W 52.72W	3.13S 51.05N 44.65N 45.52N 47.57N
0043-0953 0357-1227 1053-2123 1109-1957 1340-2240	0010-1026 0317-1308 1037-2139 1034-2032 1307-2313	2331-1105 0228-1356 1015-2201 0947-2119 1223-2357	2245-1150 0132-1452 0952-2225 0859-2207 1138-0042	2202-1234 0038-1546 0931-2245 0814-2252 1056-0124	2143-1253 0017-1610 0920-2256 0749-2317 1033-0147	79.38W 123.12W 118.00E 126.68E 87.58E	43.65N 49.27N 26.00N 45.75N 43.80N
1715-0301 2359-1159 1340-0038 1238-2308 0922-2132	1651-0325 2358-1158 1329-0049 1222-2324 0924-2130	1618-0357 2358-1158 1314-0104 1200-2346 0926-2128	1544-0432 2358-1158 1258-0120 1137-0009 0929-2125	1512-0504 2359-1159 1243-0135 1116-0030 0931-2123	1455-0521 2359-1159 1235-0143 1104-0042 0933-2121	28.00E 90.50W 72.83E 91.73E 128.20E	36.10N 0.50S 18.97N 26.18N 3.72S
1006-2232 1017-2227 0833-2041 0930-2202 1117-2321	1010-2228 1019-2225 0835-2039 0935-2157 1118-2320	1017-2221 1021-2223 0837-2037 0944-2148 1119-2319	1024-2214 1024-2220 0838-2036 0952-2140 1120-2318	1030-2208 1026-2218 0840-2034 1000-2132 1120-2318	1034-2204 1028-2216 0841-2033 1004-2128 1121-2317	115.25E 114.58E 140.70E 123.58E 100.35E	8.42S 3.33S 2.53S 10.17S 0.95S
0954-2210 24hr day 1409-0007 1815-0353 0008-0920	0957-2207 1937-0155 1347-0029 1749-0419 2338-0950	1001-2204 1722-0410 1317-0059 1714-0454 2256-1032	1005-2159 1516-0616 1246-0130 1639-0529 2214-1114	1009-2155 1240-0852 1217-0159 1605-0603 2134-1154	1011-2153 24hr nite 1202-0214 1546-0621 2113-1216	119.40E 18.97E 73.06E 14.07E 71.07W	5.11S 69.67N 33.60N 37.48N 42.35N
0112-1028 0255-1251 0015-0937 0320-1258 1420-2324	0044-1058 0233-1313 2346-1006 0254-1324 1348-2357	0002-1138 0202-1344 2307-1044 0219-1359 1305-0039	2321-1219 0131-1415 2228-1124 0144-1434 1221-0123	2242-1258 0101-1444 2151-1201 0110-1507 1140-0204	2221-1319 0045-1500 2130-1222 0052-1526 1117-0227	87.63W 118.25W 74.00W 122.40W 76.95E	41.88N 34.05N 40.72N 37.80N 43.25N
1902-2336 1518-0054 1600-0122 1439-0011 1429-2335	1727-0111 1452-0120 1531-0151 1412-0038 1357-0007	1546-0251 1417-0156 1452-0230 1336-0114 1314-0050	1409-0429 1340-0232 1413-0309 1259-0151 1231-0133	1225-0613 1306-0306 1336-0346 1224-0226 1151-0213	1107-0732 1248-0324 1316-0407 1205-0245 1128-0236	40.53E 58.38E 49.85E 68.80E 74.60E	64.57N 37.95N 40.38N 38.58N 42.90N
1307-2100 1046-1914 1753-0203 1047-1707 1821-0201	1220-2146 1007-1953 1710-0246 0940-1814 1732-0250	1120-2246 0915-2045 1614-0342 0820-1934 1629-0353	1020-2346 0823-2138 1518-0438 0700-2054 1526-0456	0922-0044 0729-2232 1424-0532 0540-2214 1436-0557	0848-0118 0704-2256 1353-0603 0450-2304 1349-0633	104.33E 135.10E 30.52E 150.80E 27.57E	52.27N 48.45N 50.43N 59.57N 53.90N
0932-1718 1852-0156 1528-2228 1909-0134 1445-0001	0844-1806 1755-0253 1430-2326 1804-0240 1407-0039	0743-1907 1644-0404 1319-0037 1645-0359 1335-0111	0641-2009 1534-0514 1207-0149 1526-0518 1254-0152	0541-2109 1424-0624 1056-0300 1407-0637 1216-0231	0506-2144 1342-0706 1014-0342 1318-0726 1155-0252	158.65E 24.10E 60.60E 24.75E 69.30E	53.02N 56.95N 56.85N 59.42N 41.33N
1624-0138 1834-0205 1039-1945 1620-0144 1247-2303	1554-0209 1743-0255 1007-2017 1552-0212 1228-2322	1513-0249 1638-0400 0925-2059 1513-0251 1203-2347	1431-0331 1533-0506 0841-2143 1434-0330 1136-0014	1353-0410 1429-0609 0800-2224 1357-0407 1112-0038	1331-0431 1352-0646 0737-2247 1337-0427 1058-0052	44.82E 25.32E 131.93E 44.50E 91.15E	41.72N 54.68N 43.17N 40.18N 29.67N

All times in this chart are Greenwich Mean Time. Times are computed to mid-month values.

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## COMPUTING SUNRISE-SUNSET TIMES FOR ANY LOCATION IN THE WORLD

**Discussion:** using basic spherical trig. formulas (since the earth is a sphere), we will be solving the following astronomical triangle for Angle A, which is known as the 'hour angle' of the Sun.



Side a = co-altitude of the Sun ("co" meaning 'complement of'). Since we are solving first for sunrise, the sun will be on the horizon and the altitude will be  $0^\circ$ . The co-altitude is equal to  $90^\circ$  minus the altitude, therefore co-alt. =  $90^\circ$ . This holds true for any SS-SR computation.  
 Side b = co-declination of the Sun. The declination of the Sun is the angle, north or south of the celestial equator at which the Sun is located. To visualize the celestial equator, just picture the earth's equator extending out into space. The Sun's declination is north(+) from March 21 to Sept. 23 and south(-) from Sept. 24 to March 20. I have listed the Sun's declination for the 15th day of each month. To obtain the dec. for different dates, refer to a Nautical Almanac. The co-declination is equal to  $90^\circ$  minus the declination at the time of computation. Two examples: declination,  $+22^\circ$  (north), co-dec. =  $90^\circ - 22^\circ = 68^\circ$ ; declination,  $-19^\circ$  (south), co-dec. =  $90^\circ - (-19^\circ) = 109^\circ$ .  
 Side c = co-latitude of the location you are computing for. Co-latitude equals  $90^\circ$  minus the latitude. Two examples: North latitude (+);  $90^\circ - 35^\circ = 65^\circ$  co-lat., South latitude (-);  $90^\circ - (-35^\circ) = 125^\circ$ . Notice that North latitudes are + and Southern latitudes are -.

**Problem:** solve for SR-SS times on August 15 at Chicago, Ill., latitude  $41.88^\circ$  N. The declination of the Sun for August 15 is  $+14.3^\circ$ .  
 Side a = co-alt. =  $90^\circ - 0^\circ = 90^\circ$  (Sun on horizon); Side b = co-dec. =  $90^\circ - 14.3^\circ = 75.7^\circ$ ;  
 Side c = co-lat. =  $90^\circ - 41.88^\circ = 48.12^\circ$ . Next, solve for the semiperimeter of the triangle:  $s = \frac{1}{2}(a+b+c) = \frac{1}{2}(90^\circ + 75.7^\circ + 48.12^\circ) = \frac{1}{2}(213.82) = 106.91^\circ$ . Next, obtain the sine of s:  $\sin 106.91 = 0.956763$ . The equation for the sunrise time is

$$\sin \frac{1}{2} A = \frac{\sqrt{(\sin s) [\sin (s - a)]}}{(\sin b) (\sin c)}$$

At this point I will give the equation in terms of logarithms in order that those without a handy calculator may be able to work the equation without much hindrance:

$$\text{Log } \sin \frac{1}{2} A = \frac{1}{2} [\text{log } \sin s + \text{log } \sin (s - a) - \{\text{log } \sin b + \text{log } \sin c\}]$$

Working the first equation:

$$\sin \frac{1}{2} A = \frac{\sqrt{(\sin 106.91) [\sin (106.91 - 90)]}}{(\sin 75.7) (\sin 48.12)} = \frac{\sqrt{(.956763)(.290869)}}{(.969016)(.744545)} = \frac{\sqrt{.2782926}}{.721476} = \sqrt{.3857267} = .6210689$$

$\arcsin .6210689$  (converting this number into an angle) =  $38.39^\circ$ . Therefore,  $\frac{1}{2} A = 38.39^\circ$ ,  $A = 76.78^\circ$ . This then, is the hour angle of the sun measured westward from the  $0^\circ$  meridian (Greenwich). To convert this to sunrise time in Chicago, divide by  $15^\circ$  (degrees of earth rotation in 1 hour),  $\frac{76.78^\circ}{15^\circ} = 5.119$ , then convert the .119 to minutes by multiplying by 60.

$(.119)(60) =$  approximately 7 minutes. Therefore, on August 15th in Chicago, the sun will rise at 0507 Local Mean Time. To obtain the local mean time of sunset, subtract 12 hours, not by counting backwards, but thusly:  $5.119 - 12 = -6.881$  (drop the minus sign). Then convert the .881 to minutes by multiplying by 60 as before:  $(.881)(60) =$  approx. 53 minutes. Therefore the sun will set at approx. 1853 Local Mean Time. To determine the local standard time, determine what standard meridian of longitude Chicago is closest to. The long. of Chicago is  $87.63^\circ$  W., therefore it is closest (less than  $7\frac{1}{2}^\circ$ ) to the  $90^\circ$  W. standard meridian (a standard meridian occurs every  $15^\circ$ ). Since Chicago is east of the  $90^\circ$  meridian, and  $1^\circ$  is equal to 4 minutes, the local standard time will be  $90^\circ - 87.63^\circ = 2.37$ , times 4 minutes = approx. 9 minutes. Subtracting this 9min. from the local mean time gives a local standard time of 0458 for sunrise and 1844 for sunset. This is the time that watches are showing in Chicago. For a city that is west of a standard meridian (up to  $7\frac{1}{2}^\circ$ ), the time would be added instead of subtracted. To convert to GMT, add or subtract the number of hours difference between GMT and standard time. (Chicago is 6 hours behind GMT, so sunrise will occur at 1058 GMT and sunset at 0044 GMT.) In reality, there are other factors that affect SR-SS times, but they are of minor significance except for navigation purposes. Any questions will be gladly explained. Be sure to include + and - signs for latitude and declination.

**SUN'S DECLINATION FOR 15TH OF EACH MONTH:** Jan:  $-21.5^\circ$ ; Feb:  $-13.0^\circ$ ; Mar:  $-2.5^\circ$ ; Apr:  $+9.5^\circ$ ; May:  $+18.5^\circ$ ; Jun:  $+23.3^\circ$ ; Jul:  $+21.6^\circ$ ; Aug:  $+14.3^\circ$ ; Sep:  $+3.5^\circ$ ; Oct:  $-8.2^\circ$ ; Nov:  $-18.3^\circ$ ; Dec:  $-23.2^\circ$

INDIA

9525 2100 343 PL AIR Aligarh: Eng nx, cmtly (White 7/31)(Miller OH)  
 9912 2210 352 PA AIR Delhi: Eng interview (Earhart 7/23)(Jessen OR)  
 11620 1852 333 ENG AIR Delhi: regional Indian mx w/ Sitar (Mulcahy 7/18),  
 @2240 in Eng (Svinicki MI), @2100 in Hindi (Famularo)  
 11775 1002 343 PL AIR Aligarh: Eng w/ Asian mx, violin concert (White)  
 11810 1450 211 CA AIR Aligarh: Eng tlk by YL, Indian mx (Leistner 8/1)

AIR=ALL INDIA RADIOINDONESIA

3205 1104 332 CA RRI Bandung: OM w/ nx, ID (Snyder 8/6)(Cleveland 8/6)  
 3277 1225 233 OR RRI Jakarta: soft Indo mx (Bodell 8/8)  
 3294 1259 333 CA RRI Samarinda: "Love Ambon", 1300 Indo nx (Sztot 7/25)  
 3800 1236 222 OR RKPDK Jember: local Indo mx, Indo tlk (Bodell 8/8)  
 3935 1311 323 CA RRI Semarang: Indo nx by OM/YL (Sztot 7/25)(Cleveland)  
 3945 1403 332 CA RRI Demassar: OM w/ nx, 1415\* (Cleveland 7/29)  
 3965 1357 211 CA RRI Pontianak: Indo tlk, native mx (Cleveland 8/6)  
 3975 1315 323 CA RRI Surabaya: nx in Indo by OM, CW QRM (Sztot 7/25)  
 4000 1225 222 OR RRI Kendari: Indo tlk by OM (Jessen 7/16)(Sztot CA)  
 4719 1430 333 CA RRI Ujung Pandang: pop mx (Cleveland 7/22)(Jessen OR)  
 4764 1400 232 OR RRI Medan: "Love Ambon", nx (Jessen 7/24)(Cleveland)  
 4775 1220 332 CA RRI Jakarta: Indo religious pgm (Cleveland 8/6)  
 4845 1350 232 OR RRI Ambon: Indo tlk by OM (Jessen 7/24)  
 4855 1136 343 TX RRI Palembang: Indo nx, ID (Laves 8/8)(Cleveland 8/6)  
 4927 1148 222 TX RRI Jambi: Indo tlk, mx, Surakarta QRM (Laves 8/8)  
 5047 1130 232 WI RRI Yogyakarta: Eng nx, Indo mx (Zilmer 7/20)  
 5885 1308 242 OR RRI Pekanbaru: Indo tlk by OM (Hokman 7/31)(Cleveland)  
 5987 1444 432 CA RRI Menado: Indo mx sung by OM (Cleveland 7/22)  
 6045 1418 443 CA RRI Jakarta: Indo pop mx by OM/YL (Cleveland 7/28)  
 7057 1115 433 CA RRI Jakarta: island & pop mx, ID (Day 8/3)(Laves 8/8)  
 11789 1140 322 MI Voice of Indonesia: Eng press rev., mx (Romani 8/7),  
 Miklejewski MN, Cleveland CA, and @2345 Bixby CA....

IRAN

9015<sup>nr</sup> 2000 344 CT Voice of Iran: Eng w/ mailbag, ex-9022 (Olsson 8/8)  
 9022 2012 222 PA VOI: Farsi chants (Baron 7/26), and Svinicki MI  
 15084 1245 342 FL VOI: Viennese waltzes (Smith 7/8), and in Farsi by  
 Zimarowski MA, Scannell MA, and Pimblett ALB.....

**R. B. I.**IRAQ

9745 \*1928 333 MA R. Baghdad: Eng S/on, nx (Zimarowski 8/8), and by  
 Svinicki MA, Brooks CT, Romani MI, Baron PA.....  
 11980a 2232 454 CT RB: Arabic tlk, Qoran, S/off w/ anth (Brooks 7/14)  
 15400 1415 433 INDIA RB: Urdu chants, nx, mx (Sridhar 7/10)

ISRAEL

7395 0415 434 IL IBA: nx in French (Jacobson 8/7), // 9815  
 9009 \*0359 343 CA IBA: trumpet IS, TPs, Eng pgm (Nebron 8/8)(Sztot 8/2)  
 9495 2133 353 PA IBA: live pop mx show in Hebrew (Earhart 7/20)  
 9560 2215 433 WI IBA: nx, mx in French (Zilmer 8/4)  
 9815 \*2000 433 GA IBA: Eng nx by YL (Deaton 7/16), and Yajko PA  
 11643 1957 443 NJ IBA: Hebrew w/ ads, nx, rock mx (Famularo 7/12)  
 11960 2000 322 WI IBA: Eng nx under Cuba same freq (Zilmer 8/2)  
 12025 \*0400 343 CA IBA: Eng nx, cmtly (Marti 7/28)(Nebron 7/27), and  
 @2000 by Pimblett ALB, Romani MI, Famularo NJ, Yajko  
 15405 2010 422 WI IBA: Eng w/ "Jerusalem Calling" (Zilmer 7/27)  
 15485 2024 353 MS IBA: Eng cmtly (Jones 8/3), and by Nebron CA, Romani,  
 Thompson, Yajko, Elchenhorn MI, and Baron.....

IBA=ISRAEL BROADCASTING AUTHORITYRADIO JAPAN

JAPAN	FEN=PAR	EAST	NETWORK (AFRTS)	NHK=NIPPON HOSO KYOKAI
2700	1240	333	CA	UNID: Asian lang tlk by OM/YL (Sztot 7/22-25), Oriental mx, 1200 TPs, JJ annex by OM (Bodell 8/8). Could be 2 x 1350 KHz., JOER in Hiroshima, 20 KW.....
3910	1350	443	CA	FEN: Eng w/ pop mx (Cleveland 7/29)
3925	1410	433	CA	Nihon Short-Wave Broad: tlk in JJ by YL (Cleveland)
5990	1029	323	MS	R. Japan: Eng pgm (Jones 7/23)(Thompson)(Miklejewski)
6055	1435	433	CA	NSB: Eng lang lessons, // 9595 (Cleveland 7/22)
6155	1000	232	MS	FEN: Eng w/ ID, TC, nx (Jones 7/29)
7285	0933	252	TX	NHK, Yamata(HS): Eng lessons (Laves 8/8)(Snyder CA)
9505	0910	333	PA	RJ: Eng in GOS (Yajko 7/25)(W. Miller CA)(Pimblett)
9585	1500	333	CA	RJ: Eng nx to Europe (William Miller 7/29)
9595	1545	433	WA	NSB: Eng to 1615* (Rojewski 8/1)(Day CA)(Pimblett)
9670	1630	333	WA	RJ: Eng w/ "Tokyo Report" (Rojewski 8/2)

JAPAN (CONTINUED)

11875 1013 343 WI Radio Japan: Eng w/ DX nx (Zilmer 8/3)a good DX pgm  
 15105 2206 434 CA RJ: Eng nx, cmty (Benjamin 8/7), and @0420 In JJ by MacCoy AZ, also Rojewski, Yajko, and Pimblett.....  
 15300 2345 344 IL RJ: Eng w/ 'One In A 100 Million' (Wilson 8/4)  
 15310 0500 222 AZ RJ: Eng nx, tlk (MacCoy), and in JJ @0620 (Jessen OR)  
 17825 \*0130 354 CA RJ: Eng w/ "Industrial Scene" (Marti 7/31)

JORDAN

7155t 2135 332 PA HKBS=HASHEMITE KINGDOM BROADCASTING SERVICE  
 HKBS: Arabic tlk, string inst. mx, QRN (Earhart 7/18)

KOREA (DEMOCRATIC PEOPLE'S REPUBLIC)

2301 1254 222 CA Hyesan: Korean mx, // to other HS freq (Sztot 7/25)  
 2696 1239 444 CA Hyesan(FBIS): emphatic KK cmty on Viet. (Sztot 7/22)  
 3560 1140 232 WA R. Pyongyang: RR w/ martial mx, tlk (Beal 7/27)  
 6294 1343 322 CA RP: Eng w/ Korean mx, not // 7580 (Cleveland 7/31)  
 9420nf 1200 333 MT KCBS: IS, ID, Eng pgm (Mullen 8/10), RP. in Eng @1000 ex-9340, // 11535 (Zilmer WI), and Miklejewski MN...  
 9820 1540 343 OR RP: Eng tlk, mx, cmty, anthem 1550\* (Jessen 8/7)  
 11350 1047\* 342 WI KCBS: Home Svce in KK w/ sing song mx (Zilmer 7/31)  
 11533 1200 252 OH RP: IS, Korean ID, nx by YL (Miller 7/27)

**RADIO KOREA**

KOREA, REPUBLIC OF

3918 1110 433 CA KBC: KK w/ pop tunes in Home Svce 1 (Cleveland 8/6)  
 6348 1118 434 OR Voice of Hope: Korean singing (Bodell 8/2)  
 9640 1900 322 WA R. Korea: Eng nx (Rojewski 8/1)(Zilmer WI)(Cleveland)  
 12055 0528 433 OR RK: Eng YL asking for rpts, also 12015, 12045 (Jessen)

KUWAIT

11940 1800 333 DE R. Kuwait: 'Weekly Show', etc. in Eng (Schwartx 7/24), also in Eng w/ pop mx by Olsson CT, Mulcahy ENG, White FL, Deaton GA, Miller OH, Famularo NJ, Miklejewski MN

**RADIO KUWAIT**

LAOS

6250t 0855 232 CA 2nd Strike Division, Sene: lang tlk by YL, 0900 TPs, 0930\*, def. not DPRK or China (Snyder 8/2).....

LEBANON

9675 \*0228 322 MI R. Lebanon: Eng w/ pop mx, nx, annx by YL (Jakvbiak 7/17), also by Deaton GA, Zimarowski MA.....

MALAYSIA

3915 1210 332 WA BBC Tebrau: Chi tlk (Beal 7/27), 1406 Burm (Cleveland)  
 4985 1411 332 CA RM Penang: Eng w/ World news (Cleveland 7/18)  
 5965 1125 343 CA RM Kuala Lumpur: reading of Qoran, Malay ID (Snyder 8/1)  
 6195 1100 242 MS BBC: Eng TPs, World Svce, (Jones 7/30), and Zilmer 8/7  
 9740 1014 333 FL BC: Eng S/on w/ site, into lite mx (White 7/14)  
 11910 1600 333 OR BBC: Eng ID, then into Hindi (Jessen 8/4)  
 15435 1300 232 WI BBC: Eng w/ news (Zilmer 8/3)



MONGOLIA

5054 1355+ 222 CA R. Ulan Bator: tlk by OM/YL, short mx pieces (Sztot 7/25)

**RADIO PAKISTAN**

PAKISTAN

3330 1625 333 JAPAN R. Pakistan, Peshawar: Urdu tlk by OM (Junqua 7/23)  
 4835 1708 333 JAPAN RP., Rawalpindi: Eng cmty, request pgm (Junqua 7/14)  
 11672 1813 343 OR RP., Karachi: Pak. and Western mx, 1815 Eng nx (Bodell)  
 11885 2200 222 MI RP., Karachi: Eng nx, mx YL annx (Jakvbiak 7/10)  
 15520 1525 342 WI RP Islamabad: IS, ID, slo speed Eng nx (Zilmer 7/30)  
 17830 1546\* 232 MN RP Islamabad: slo speed nx in Eng (Miklejewski 7/12)

PHILIPPINES

2653 1236 333 JAPAN FEBC=Far East Broadcasting Corporation  
 DXCR: 2 x 1326.5, Eng w/ 'Voice of Prophecy', 1300 ID, (Junqua 7/10), 1318 w/ piano mx (Bodell 8/19).....  
 3286 1215 333 OR PBS: popular mx, Eng ID @1300 (Bodell 8/8)  
 3345 1300 343 OR FEBC: Eng giving tele # for those having problems, ID "DZAS, 680 Manila", then into Tagalog nx (Bodell 8/19)  
 7225 1202 232 WA FEBC: mx, U/lang tlk, Eng ID (Beal 7/19)(Thompson NM)  
 9570 1117 332 WI R. Veritas: w/ Eng IDs "RV Overseas", & "RV Liberty", requests by YL for reports (Zilmer 7/26).....  
 9580 0830+ 343 CA V. of Philippines: Eng mailbag (Leistner 7/30), and by Day, Cleveland, Rojewski WA, Zilmer WI, Snyder...

PHILIPPINES (CONTINUED)

9630 1000 333 CA VOA Tinang: ID, then into Russian (Day 8/3)  
 11855 1126 353 OH FEBC: rel mx, ID, adress (Miller 8/2)(Leistner 7/14)  
 15290 0213 322 PA VOA Tinang: Eng nx (Baron 7/28)(White PL)(Zimarowski)

RYUKYU ISLANDS

7165 1305 333 CA VOA Okinawa: Eng w/ nx (Day 8/3)  
 15365t 2300 333 WI VOA: JJ w/ mx (Trautschold 8/3) VOA sked lists as Dixon

SABAH

4970 1415 332 CA RM Kota Kinabalu: Eng/Malay w/ mx (Cleveland)(Jessen OR)  
 5980 1520 443 JAPAN RM Kota Kinabalu: mx, nx in Bahasa Malaysia (Junqua)

SARAWAKRMS=Radio MaLaysia Sarawak

4835 1458 232 OR RMS Kuching: OM tlk in Bahasa Malaysia (Jessen 8/6)  
 4895 1410 343 OR RMS Kuching: nx in Iban (Jessen 7/24)  
 4950 1100 322 CA RMS Kuching: Eng nx (Day 8/3), and Jessen OR 7/24  
 5005 1355 443 CA RMS Sibuh: local pgm of Malay & West, mx, ID (Cleveland)  
 5030 1450 343 OR RMS Kuching: Eng w/ pop mx (Jessen 8/7)(Cleveland)

SAUDI ARABIABKSA=Broadcasting Service of the Kingdom of Saudi Arabia

9730 2243 232 TX BKSA: Arabic w/ Qoran reading, tlk 2259\* (Laves 8/6)  
 11685 0501 343 OR BKSA: Qoran reading, Turkish pgm (Bodell 8/20) daily  
 11780 1835 333 PA BKSA: Arabic chants (Baron 7/28)  
 11790t 1828 343 ENG BKSA: Asian mx, Arabic tlk (Mulcahy) same as above?  
 15205t 1020 343 OR BKSA: Arabic tlk by OM (Bodell 8/7) could be Pakistan

SINGAPORE

5052 1330 322 CA R. Singapore: Eng YL nx, mx (Leistner 8/1)(Cleveland)  
 11940 1040 242 CA RS: YL w/ short hair mx (classical)(Snyder 8/1)

SRI LANKASLBC=Sri Lanka Broadcasting Corporation

9720 0200 544 INDIA SLBC: Eng w/ BBC nx (Sridhar 7/11), & 1501 ID Junqua  
 15120 1920 322 MA SLBC: Eng w/ 'Sri Lanka News Mag.' (Zimarowski 7/23)  
 15185 \*0058 142 MA VOA Colombo: S/on Eng ID, nx (Zimarowski 7/12)  
 15425 0100 343 PL SLBC: Eng jazz mx, local time 6:30 A.M. (White 7/22)

TAIWANVOFC=Voice of Free China

15125 0230 212 INDIA VOFC: Eng tlk by YL, Chinese mx (Sridhar 7/10)  
 15345 0225 343 CA VOFC: Eng tlk, Chi mx (Mercado 7/6), @0350\* Snyder  
 17890 0941 444 OR VOFC: Japanese w/ Chinese lessons (Bodell 8/7)

THAILAND

11905 1125 232 OH R. Thailand: Eng cnty, mx, 1130\* (Miller 7/13)

THE VOICE OF TURKEYTURKEY

9315 0000 422 MA Voice of Turkey: Eng nx, 'For the DXer' @0015, 0030\* (Licklider 8/10), and Olsson CT, Romani MI, Famularo  
 15165 2307 454 MA VOT: Eng nx, marine mx (Scannell 7/27), and Svinicki MI, Yajko PA, Famularo NJ, @0400 in Turkish (Snyder)

UNION OF SOVIET SOCIALIST REPUBLICS (ASIATIC)

3551 1308 323 CA Russian feeder or spur w/ nx (Sztot 7/25), also 11520  
 4040 1054 443 CA Radio Moscow Vladivostok: Mayak IS, ID (Cleveland 8/6)  
 4050 1234 343 OR RM: RR w/ opera mx (Jessen 7/16) Frunze or Yuzhno-Sakh.  
 4520 0713 233 CA Palana: Koryal tlk, nx, mx (Sztot 8/2)  
 4610 1130 433 CA RM Khabarovsk: RR tlk by OM, Folk mx (Cleveland 8/6)  
 5015 1100 222 MS RM Vlad: RR mx, tlk (Jones 7/13)(Jessen OR)(Snyder CA)  
 5910 1238 242 CA Mayak HS: Russian mx (Snyder 8/6) Kenga?  
 5945 1036 343 ENG Radio Stansia Atlantica: cl & Jazz mx (Mulcahy 7/19)  
 6080 1630 232 OR Radio Rodina: IS, cl mx (Jessen 8/5) Komsomolsk or KH.  
 6165 \*1131 232 MS RM Vlad: IS, anthem, Russian tlk (Jones 7/13)  
 7100 0855 444 CA RM: JJ tlk by OM, Russian vocal mx (Snyder 7/27)  
 7230 0841 332 CA Mayak HS: lite Russian mx, // 7310 (Snyder) Irkutsk?  
 7255 0838 232 JA Mayak Vladivostok: cl mx, // 7320, 7210, 7135 (Snyder)  
 7320 1427 433 CA Mayak HS: IS, cl mx (Cleveland 7/31) Sverd. or Magad.  
 9565 \*1000 332 CA Mayak HS: IS, TPs, Mayak ID (Snyder 7/27)  
 9610t 0310 343 PA R. Yerevan: Armenian? tlk, mx (Earhart 8/9) Euro site?  
 9710 0600 222 CA RM: Eng to WCNA (William Miller 7/26)

U. S. S. R. (ASIATIC) (CONTINUED)

11520 0643 453 CA R. Moscow feeder: Eng tlk by YL (Dawson 7/29)(Sztot)  
 11700 \*1738 232v ENG RM: tlk in the Hausa service (Mulcahy 7/18)  
 11850 0450 ??? CA RM: Eng? ID, program review (Sztot 7/31)  
 11975 1936 443 ENG RM: Eng tlk on Apollo-Soyuz, pol. cmty (Mulcahy 7/18)  
 12010 0500 232 OR R. Peace & Progress: IS, Chinese pgm (Jessen 8/7)  
 12020 0502 443 OR RM: Eng nx (Jessen 8/7), // 12050, Far East sites  
 12060 1957 343 ENG RM: Eng pgm to Africa (Mulcahy 7/18)  
 14860 1603 342 ENG RM Sverdlovsk: RR & for nx, 1600 ID (Mulcahy 7/19)  
 15130 0515 444 CA RM Vlad: Eng nx, mx, cmty (W. Miller 7/29)(Jessen)  
 15180 \*0300 242 FL R. Yerevan: Arm/Eng pgm, // 15130 (White) FE site  
 15210 0100 233 PA RM: Eng w/ sports, nx, mx, cmty, etc. (McIntosh 8/4)  
 1430 433 MI R. Peace & Progress: Eng nx by YL, IDs (Jakvbiak 7/6)  
 17900 0230 343 NM RM Komsomolsk: Eng w/ orch mx, nx, cmty (Thompson)

VIETNAM, DEMOCRATIC REPUBLIC OF

10040 1354 443 CA Voice of Vietnam: Eng tlk by YL, mx, ID (Cleveland)  
 15012 1715 333 ENG VOV: Viet tlk, nx, local mx (Mulcahy 7/18)

SOUTH VIETNAM

4877 1350 443 CA Saigon Radio: YL w/ Viet tlk (Cleveland 7/28)

YEMEN ARAB REPUBLIC

5805 0305 343 CT R. San'a: Arabic tlk by OM, mx (Olsson 8/7)

YEMEN, PEOPLE'S DEMOCRATIC REPUBLIC OF

7190 \*0300 333 PL DYBS: S/on w/ Qoran reading, Arabic tlk, anthem (White 7/29)(Laves 8/8)(Earhart 8/7)(Bodell 8/18)...



**OCEANIA**



AUSTRALIA

S=Shepparton L=Lynnhurst B=Brisbane  
 4920 1335 443 CA ABC Brisbane: Eng w/ nx, 1402\*, w/ GSTQ (Cleveland)  
 5995 0714 322 CA R. Australia (L): Eng w/ "World of Music" (Zink 7/20)  
 6090 0900 312 WA ABC Sydney: Eng nx, ID (Beal 7/19), and Jones 7/29 MS  
 6140 0945 343 MS ABC Perth: Eng w/ pop mx (Jones 7/29), and Laves TX  
 6150 0904 333 PA ABC Melbourne: Eng nx (Yajko 7/25), and Jones 7/23 MS  
 7220 1217 323 MN RA (S): Eng in PNG svce (Miklejewski 7/12)(Yajko PA)  
 7235 1230 343 MN RA (S): Indonesian nx, pop mx (Miklejewski 7/13)  
 7290 1140 343 OH RA (?): U/lang tlk by OM, IS (Miller 7/13) new freq?  
 9515 1300 343 MN RA (S): Eng S/on, Japanese pgm (Miklejewski 8/3)  
 9540 1900 333 WA RA (S): Eng w/ nx (Rojewski 8/1)  
 9570 0733 333 NJ RA (S): DXers Calling, 0745\* (Famularo 7/13)(Earhart)  
 9580 1240 444 MI RA (S): Eng pgm (Eichenhorn 7/29)(Romani MI)(Day CA)  
 9600 1230 333 MS RA (?): Indo? tlk, ID (Jones 8/9) new freq?  
 9610 1200 344 IL ABC Perth: Eng pgm (Wilson), and by Eichenhorn MI, Romani MI, Day, Nebron, Bixby in Ca, and Famularo NJ  
 9660 0648 332 CA ABC Brisbane: ABC nx, "pops" mx (Day 7/25)  
 9680 0700 343 CA ABC Melbourne: Eng nx, popular mx (Day 7/31)(Yajko PA)  
 9770 1220 423 NJ RA (S): Eng bus. nx, ID (Famularo 8/5)(Jones 8/9 MS)  
 11810 1230 332 WI RA (S): Eng cmty to East Asia (Zilmer 7/30)  
 11840 2035 322 CA RA (S): Eng pop mx, nx (Zink 7/27)(Rojewski 8/4 WA)  
 11885 0705 252 CA RA (B): Eng tlk, Poly mx in PNG svce (Birby)(Zink)  
 15160 0315 251 FL RA (L): Eng stock rpt (Sputo 8/5)(Smith FL)(Yajko PA)  
 15230 0615 433 OR ABC Melbourne: Eng w/ symphony mx (Jessen 7/31)  
 15240 0435 333 FL RA (L): Soccer (love it!), Durban Cup horse race (Smith)  
 15290 0520 322 AZ RA (S): Eng pgm (MacCoy)(Smith FL)(Svinicki)(Zilmer)  
 15320 0248 233 CA RA (S): Eng nx, mx (Benjamin 8/16)(McIntosh PA)(Yajko PA)(Scannell MA)(MacCoy AZ)(Wilson IL)(Rojewski WA).  
 15355 0145 544 INDIA RA (S): Eng w/ "Australian Top 40" (Sridhar 7/13)  
 15425 0202 343 ALB ABC Perth: Eng nx, book rev. (Pimblett 7/23)(Yajko PA)  
 17795 0145 222 NY RA (S): Eng to N. A. (Kannry 8/11), and Jacobson IL, Svinicki MI, Thompson NM, Nebron and Marti CA.....

NEW CALEDONIA

3355 0909 212 OR R. Noumea: OM in sensuous Fr, // 7170, RTTY QRM (Bodell 8/7), and in JAPAN by Junqua 242 7/16.....  
 7170 0625 333 DE RN: "selacious" French chansons (Schwartz 7/26), and by Zimarowski @1100\*, Leistner & Birby CA.....  
 11710 0700 252 CA RN: Eng lesson to 0730 w/ YL (Agnes Herbold 7/16)

NEW HEBRIDES

3945 0820 232 OR R. Vila: Fr tlc by 2 OM (Bodell 8/7)

**VILA**

NEW ZEALAND

6080 0813 333 MS NZBC: Eng tlc, mx (Jones 7/31), and Miller 8/3 OH  
9520 1000 232 PA NZBC: IS, TPs, Eng nx (Yajko 7/25)(Earhart PA)  
9540 0602 433 GA NZBC: Eng nx (Deaton 7/17),(Zink)(Bixby)(Scannell MA)  
15110 0310 242 FL NZBC: nx, wx (Sputo 8/5), and Jacobson IL, Wilson  
IL, Marti CA, Rojewski WA, Yajko PA, Scannell MA....  
15280 0305 222 CA NZBC: Eng nx (Zink 8/3)(Jacobson CA)(Scannell MA)

NBC=National Broadcasting Commission

PAPUA NEW GUINEA

1450 1252 222 CA R. Western District: C&W mx, Pidgin tlc (Szot 7/25)  
3260 1025 232 CA Madang: rock mx, Pidgin annx (Snyder 7/27)(Szot 8/2)  
3290 0953 222 CA Central District: Eng w/ chants, rock mx, ID (Szot)  
3305 1146 222 OR Western Highlands: local music (Bodell 8/2)  
3322 1057 111 TX Bougainville: U/lang tlc, RTTY QRM (Laves 8/8)  
3335 1103 232 TX East Sepik: OM/YL tlc, rel pgm (Laves 8/8)  
4890 1100 323 WI NBC Port Moresby: Eng/Pidgin cmty, pop mx (Talbot),  
and Eichenhorn MI, Thompson NM, Leistner CA, Yajko PA  
9520 0607 343 CA NBC Port Moresby: Eng w/ rock music (Bixby 8/4)

SOLOMON ISLANDS BROADCASTING SERVICE

SOLOMON ISLANDS

5020 0905 222 DE SIBS: pop and C&W mx, Eng ID, BBC Worl nx @1000  
(Schwartz 7/25), and Miller 8/9 OH, Day 8/3 CA.....

TAHITI

11825 \*0259 333 MA R. Tahiti: Tahitian w/ pop, isl. mx (Zimarowski 8/6)  
15170 0211 222 PA RT: FR tlc, mx (Baron 7/28)(Earhart PA)(Scannell MA)

CLANDESTINE

4117 1402 333 CA VRPR: Korean tlc by YL, nx? (Cleveland 7/18)  
4654 1332 333 OR R. Pathet Lao: Fr tlc by OM/YL (Bodell 8/19)  
11830 1448 332 CA V. of Malayan Rev. Eng ID, nx, mart. mx (Day)(Snyder)

UNIDENTIFIED STATIONS

2860 1209 243 OR Spanish mx incl. song by Freddy Fender, then abrupt  
Chinese tlc, more Span mx, 1300\* (Bodell 8/8) harmon?  
3425 1306 121 CA station didn't appear to be Nepal (Szot 7/25)(Bodell)  
5153 1522 232 OR Oriental mx, tlc, sudden 1533\* (Jessen 8/6) Mongolia?  
9770 1645 322 WA Arabic mx, chants (Beal 8/2) Aden or Riyadh?  
15060 1545 252v ENG Eng w/ fading, 1610\* (Mulcahy 7/18) Peking?

DATELINE

CHINA-According to PARADE magazine 3 August 1975, starting 1 Sept. the Chinese will change the spelling of Mao-Tse-tung to 'Mao Zedong'. Peking will become 'Beijing'. This is so that the Romanized spelling will better depict the manner in which the Chinese ideographs are pronounced. (Romani MI)....

THAILAND-Bangkok Meteorological Radio is now on 6510 KHz until 1330\* (Isao Ugusa, Kobe, Japan).....

AUSTRALIA-"After recounting the deletion of R. Australia's 1515-1615 program to western NAM in 11/62, the mailman said on 7/9, 'By the time Darwin is replaced next Christmas, you will have a much wider choice of listening times.' In a reception study for the FRC last winter, I suggested an additional NAM program at 1415-1545 on 31 and or 49m, and that the 0100-0300 program be advanced to 0000-0200 to reduce fadeouts in the east, our winters." (Hauser) (The last 2 items were provided by Glenn Hauser from his 'Listeners Notebook' in Aug. FRENDX, pub. by NASWA, Box 13, Liberty, Indiana 47353....)

PAPUA NEW GUINEA-According to a report on Radio Australia on 5 August, Papua New Guinea is to become fully independent on 16 Sept. Whether or not the mineral rich island of Bougainville remains part of PNG then is still in doubt

I really had to cut to the bare bones this month with a fantastic 57 reporters, including new ones: L. P. Benjamin, Dave Jakvbiak, Tracy Licklider, Randy McIntosh, William Miller, Eric Olsson, Don Rojewski, David Romani, Tom Sputo. I hope you all will send to hgtrs in Elsinore for reporting forms (a 25¢ piece will get you a bundle). You're comments, criticisms, corrections, and suggestions are always appreciated. All full members are urged to vote in the up coming election. You're participation is the key to the future of this "active" club. I'm heading for San Jose soon to see my friend Doug Snyder, but should be back in time to do this all over again next month. Thanx and 73, *fot*

# PROGRAMMI

# STATION SKEDS

# PROGRAMMES

## TRANSMISSIONS

## DAILY PROGRAMS

DELLE SINGOLE TRASMISSIONI

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TABELLA DEI FUSI ORARI

TIME AND FREQUENCY SCHEDULE

ÉMISSIONS QUOTIDIENNES

Send program schedules to editor at above address by 15th of the month.

About all I can say about my first attempt at Station Skeds is that no one can accuse me of using my column to influence votes. Let's try again:

**BURMA:** The BBS lists the following schedule as sent in by Mark Bixby:

0030-0200 Burmese 7185  
0200-0230 English 7185  
0330-0730 Burmese 9725 (Sundays 0230-)  
0700-0730 English 9725  
0930-1430 Burmese 5040  
1430-1600 English 5040

Indigenous languages are broadcast on 4725 with this schedule: 1100 Kachin, 1130 Kayah, 1200 Sgaw Karen, 1230 Pwo Karen, 1300 Chin, 1330 Home News in Burmese, 1345 Shan, 1415 Close Down.

**CANADA:** CHMX, Halifax, is on the air 24 hours daily on 6130. Best ECNA period is 1200-2200 GMT. (Famularo)

The Fall RCI schedule shows the following NA Eng transmissions:  
0100-0157 6085  
0400-0500 6135, 9655  
0500-0600 6135, 9655  
1115-1215 5970 (Kannry, RCI)

**CHINA, P. R. OF:** Peking beams English to North America at these times:

0000-0100 ECNA 11945, 15060, 17673  
0100-0200 ECNA 7120(T), 9780(T), 11945, 15060, 17855  
0200-0300 ECNA 11675, 15060, 17855  
0300-0400 ECNA 7120(T), 9780(T)  
0400-0500 WCNA 15060, 15385, 17735, 17855  
1200-1230 WCNA Same as above.  
1200-1230 ECNA 11685.

(T) are relayed via Tirana. (Kubinsky)

**CZECHOSLOVAKIA:** Aid 9630 to the freqs given last month for Radio Prague.

(Romani)

**ETHIOPIA:** Radio Ethiopia broadcasts in Afar, Amharic, Arabic, English, Galla, Somali, Tigre, and Tigrigna at these times:

M-F - 0330-0600, 1000-1300, 1430-2100  
Sat - 0330-0600, 1000-2100  
Sun - 0500-2100

Freqs used are 6185 and 9610. (Junqua)

A recent ETLF schedule notes Eng

at:  
0400-0425 EAfr 7165  
0530-0610 WAfr 11800  
1330-1345 SIndia 15260  
1645-1710 Ethl 6015  
1755-1810 EAfr 9705  
1830-1910 SAfr 7145  
1945-2030 WAfr 11830 (Talbot)

**FINLAND:** English programs from R. Finland are scheduled at:

0730-0800 WBur 6145  
1400-1430 NA 15185  
SA 21605  
Bur 9550, 11755  
1600-1630 Bur 9550, 11755, 15185  
SA 21605  
1800-1830 Bur/SA Same as above.  
2030-2100 Bur 9550, 11755  
SA 15185, 21605  
2300-2330 NA 15185 (Fossen)

**GHANA:** The External Services of the GBC contain the following English programs:

0600-0800 WAfr 6130 (100kw)  
1400-1430 EAfr 15285 (250kw)  
1445-1530 CAfr 15285 (250kw)  
Aust 21545 (100kw)  
EAfr 21720 (250kw)  
1600-1700 WAfr 6130 (100kw)  
1645-1730 EAfr 15285 (250kw)  
1815-1900 EAfr 15285 (250kw)  
2000-2100 NA/Car/SAfr 11850 (250kw)  
2000-2300 WAfr 6130 (100kw)  
2045-2215 Bur 9545 (100kw)

GBC H.S. 1 (English and Local Languages) is transmitted at:

0530-0800 M-Sa 3350, 4915  
0530-0900 Sun 3350  
0530-2300 Sun 4915  
0900-1600 Sun 5990  
1200-1600 M-Sa 5990  
1200-2300 M-Sa 4915  
1600-2300 Daily 3350

GBC H.S. 2 (Commercial) follows this schedule:

0530-0800 M-Sa 3366, 4980  
0530-2300 Sun 4980  
0530-0900 Sun 3366  
0900-1600 Sun 7295  
1200-1600 M-Sa 7295  
1200-2300 M-Sa 4980  
1600-2300 Daily 3366 (Cleveland)

**HOLLAND:** RN's Autumn sked notes these frequency settings for NA English:

0200-0320 Daily 6165 Bonaire  
0500-0620 Daily 9715 (B), 6165 (B)  
1642-1651 M-F 11820 (B), 15190 (B)  
pgm is partly Dutch  
2130-2250 Weekdays 11730 Lopik, 9715 (L)  
(Wilson)

**HUNGARY:** Last month's 1515-1530 beam is on Tuesdays and Fridays. (Bernstein)

FULL MEMBERS!!! BE SURE AND EXERCISE YOUR RIGHT TO VOTE IN THIS YEAR'S BOD ELECTION!!!!!!!



INDIA: English language programs from AIR are aired at:

0100-0105 E/SEA 3905, 7215, 9520, 11770  
1000-1010 NEA/Aust/NZ 11725, 11775, 15190, 15205, 17387, 17780

1055-1057 NEA/Aust/NZ Same as above.

1330-1340 SEA 11810, 15335

1455-1500 SEA Same as above.

1800-1810 Eur/EAFr 7150, 9525, 9575, 11620, 15080

1900-1905 Eur/EAFr 7150, 9525, 9575, 11620, 15080

2000-2010 Eur/E/N/WAF 7150, 9525, 9755, 9912, 11620, 11880

2100-2105 Eur/Aust/NZ 7150, 7215, 9525, 9912, 11620, 11740

2200-2210 Eur/Aust/NZ Same as above.  
2300-2310 E/SEA 3905, 7215, 9520, 11770

The 0100-0105 transmission is also beamed to NEA on 9575, 11825, 15280.  
(Bixby)

JAPAN: The new General Service schedule lists the following frequencies -

0000 - 9585, 15105, 15195  
0100, 0200, 0300 - 9585, 15105, 17880  
0400, 0500 - 9505, 9585, 17880  
0600 - 9505, 17855, 17880  
0700, 0800, 0900 - 9505, 15195, 17855  
1000, 1100 - 5990, 9585, 15195  
1200, 1300, 1400, 1500 - 5990, 9585, 11815  
1600, 1700, 1800  
1900, 2000, 2100 - 9505, 9585, 11815  
2200, 2300 - 9585, 15105, 15195

All programs are ½ hour long except underlined ones which are one hour.  
(Ferguson, Wilson, NHK)

KOREA, D. P. R.: Wes Mullen reports these off the air corrections to last month's skeds: For 1200-1400 add 9420 and drop 9370, and the 1000-1100 beam was not mentioned, so watch for a change.

NIGERIA: V. of Nigeria has these services to Africa, Europe, and the Middle East:

0530-0735 English 7255, 11900, 15185  
1330-1430 French 7275, 15120, 15185  
1430-1530 Hausa 7275, 15185  
1530-1700 English 7275, 15120, 15185  
1700-1800 Arabic 7275, 15120, 15185  
1800-1930 English 7275, 11770, 15120  
1930-2030 French 7275, 11770, 15120  
(Bernstein)

POLAND: English to NA from Polskie Radio is heard at 0200-0230 and 0300-0330 on 6135, 7145, 9675, 11815, 11840, and 15120.  
(Miklejewski, McIntosh)

SOUTH AFRICA: The current English sked to NA from R. RSA shows a broadcast at 2226-2320 on 5980, 9525, 9695, and, 11900. (Fossen)

SABC's English Service has this sked:  
0358-0520 3285, 3965  
0520-0635 3965, 7285  
0635-1520 7285, 9680  
1520-1620 3965, 7285  
1620-close 3285, 3965

For Springbok Radio, these are used:  
0300-0522 3250, 3980  
0522-0637 3980, 7185  
0637-1522 7185, 9710

SOUTH AFRICA (CONTINUED)

1522-1622 3980, 7185

1622-close 3250, 3980

Both domestic services start on hour later on Sundays.  
(Bowen)

SPAIN: RWE's General Service in Spanish for Spaniards Abroad is broadcast from 1000-2140 (0900 Sundays) on 6140, 7105, 9570, and 11920. 9505 is added for the 1200-1400 time period.  
(Fossen-Scott)

SWITZERLAND: English SBC transmissions for NA are at 0145-0215 on 5965, 6135, 9725, and 11715; at 0430-0500 on 9725 and 11715, and at 1315-1345 on 15140. (Talbot-Fossen-SBC)

U.S.A.: WINB, Red Lion, Pennsylvania has this schedule. (See also July Western Hemisphere section)  
1600-1745 21580  
1747-1945 17720  
1947-2245 15185.

Transmissions are beamed to Europe and Northern Africa.  
(Baron)

An AFRTS sked from Randy McIntosh notes these transmissions to Europe and Africa:

6030 Greenville 2300-1200  
11790 Greenville 2000-2345  
15330 Bethany 1830-2330  
15430 Greenville 1200-2330

To the Caribbean and Antarctica:

6030 Bethany 0600-1130  
9755 Bethany 2300-1900  
15330 Bethany 1230-0000

To the Pacific and Far East:

6095 Delano 0900-1430  
9700 Delano 0700-1730  
11805 Delano 0500-1000, 1430-2200  
15330 Delano 1730-0830  
17765 Delano 2100-0630

Philippine relays:  
5995 Tinang 1200-0030  
11840 Foro 0030-1200

Schedules may be altered as needs dictate, i.e. sports events, news specials.

U.S.S.R.: RM beams English to Australia and New Zealand at 0800-1100 on 15130, 15260, and 18780.  
(Harding)

VATICAN STATE: Radio Vaticana has these transmissions to the Americas:

2300-2330 Port 9615, 11725, 15200  
2330-0000 Spanish Same as above.  
0000-0030 Spanish 5995, 9615, 11725  
0030-0100 Spanish 5995, 9605, 11845  
0100-0115 English Same as above.  
0115-0130 French Same as above.  
Other English transmissions are:  
1115-1130 Africa 17840, 21485  
1200-1215 Africa 17840, 17900, 21485  
1350-1410 Europe 6190, 7160, 9625, 11825  
1515-1530 Asia 11790, 15165, 17705  
1700-1730 Africa 11705, 15120, 17900  
2030-2045 Europe 6190, 7250, 9645  
2045-2100 Africa 9625, 11705, 15120  
2115-2130 Africa Same as above.  
2210-2225(?) Oceania 7235, 9615, 11705  
2230-2345 (M, W, F) Asia Same as above.

Once again, thanks for the support and for the response to the graphed skeds. Will have the fall skeds ASAP. Til then, 73's,  
MEL

# UTILITY REPORT



Editor: STEVEN J. HANDLER  
Ass't.: KENNETH COMPTON

Report to: P. O. Box 253  
Deerfield, IL  
60015 USA

Deadline: 15th of the month

This month you will find the APOLLO-SOYUZ loggings on the last page of this section. JYJ has begun 24-hour operations on 8,000 KHz so those of you who have trouble finding JYJ on WWV frequencies can look for it in early mornings on this new frequency. Now on to this month's QSLs-


- CANADA: Canadian Overseas Telecommunications Corp. (COTC) 10500KHz, Drummond-ille, Quebec sent post card with typed verification on the reverse of the card for 2 IRCs and EE report. 11 days (Kerrigan-IL)  
VCS-HALIFAX RADIO 4285 KHz sent PFC back in 2 months for mint stamp and EE rpt (Scott-FL)  
Lloyd received two cards one from Ottawa, and one from Halifax. Bill asks if 'CS verifies often, yes Lloyd they QSL about once a report (Hi)  
VBF-PORT BURWELL MARINE RADIO 2598KHz returned PFC with full data for 1 IRC return postage in 41 days via the Toronto Regional Office (Walters-NJ)  
VCF-MONT JOLI MARINE AERADIO 2514. Hz returned PFC with full data in 14 days for 1IRC. vs: A. Ronleau, Operations Supervisor (Walters-NJ)  
VFM-MONTREAL MARINE AERADIO STATION 2582 KHz Dorval. que, returned PFC for ms in 56 days for EE report (Walters-NJ)  
CHU-NATIONAL RESEARCH COUNCIL Time Station 7335KHz Ottawa, sent card with picture of Sir Robert Flemming in 12 days for no rp. (Ron Nutter-HY)
- GREENLAND: PTT-GRONLANDS TEKNISKE ORG. 14900 KHz, Godthaab, sent full data letter in 43 days for 3 IRCs and EE report. vs: N.V. Norgaard, Chief Manager (Walters-NJ)
- ITALY: ITALCABLE sent full data card in 3 months for IRC and EE report (French-ED)  
IAR-ROME RADIO-sent letter in 9 months for an IRC and an English report (T.Kiyomja-Japan)  
IAR-ROME RADIO-sent letter in 8 months for 3 IRCs and an EE report 8670 Hz full data QSL. vs: Giorgio Guidarelli Mattioli (Walters-NJ)
- JAPAN: KDD-JB467 Koyama 17696 KHz sent full data QSL card, beautiful Karikami card, one of the nicest cards, both UTE and SWBC/BCB I have ever received in 30 days for one IRC and an EE report (Trubee-Hi)
- MADEIRA: CUB-Funchal C.P.R.M. 6393.5KHz sent full data letter via Lisbon in 6 months for 2 IRCs and an EE report (Walters-NJ)
- MAURITIUS: British Royal Navy-GZC Vacoas 8726KHz sent plain black on white card with full data in 7½ months for 1 IRC and an EE report (Walters-NJ) same 2months (Scott-FL)
- NETHERLANDS: PBC96 Netherlands Naval Radio-Noordwijkshout 6895KHz sent QSL letter with time and frequency in 9 months for 2 IRCs and an EE report vs: L.A.J. van Triet (Walters-NJ) Excellent QSL one of the first for North America!
- NEW ZEALAND: Wellington Radio-sent card with very statement only (T.Kiyomya-Japan)
- NIGERIA: NET Ltd Lagos sent full data card in 1 month for IRC and EE report (T.Kiyomya)
- SCOTTLAND: Sanda Lighthouse 2182 PFC in 10 days for ms (Crawford-Scotland)  
Fladda Lighthouse 2182 returned PFC in 17 days with full data (Crawford-Scotland)  
Ailsa Craig Lighthouse 2182.Hz returned PFC and pers. ltr in 15 days for IRC (Crawford)
- U.S.A.: KPAG7 DEFENSE CIVIL PREPAREDNESS AGENCY, Reg.7 Hd Santa Rosa, CA 11957KHz returned PFC in a week for ms. (Handler-IL) they were in contact with the Presidential Emergency Command Post!
- HASPBERRY EL TORO-MCAS El Toro 6723KHz, PFC returned in a week (French-ED)(Chabak-Co)

From Hank Holbrook comes the following QSLs:

- TOKYO VOLMET-JMA 8903 KHz sent TIA Weather Services card in a month for an IRC!  
INTELCI-Ivory Coast TUP75 7570KHz returned form letter in FF for 2 IRCs  
ITT AACR-Guantanamo Bay sent a Card via P.O. Box 87 USNS FPO NYCO9593 for ms  
PIT-Mexico City sent full data QSL ltr for 1 IRC vs: Ing. Clemente Perez Correa  
Cable & Wireless Bermuda ZFD sent map card for 2 IRCs vs: S.E. Garnet  
France Cables & Radio Dahomey (BP 355 Contonou) sent 2 IRCs recvd full data French ltr  
OTC-Sydney VKS78 11545 sent QSL card in air with full data  
KVM70 FAA Honolulu Volmet sent FAA card with full data for ms  
EMBRATEL Rio de Janeiro 10640 sent full data form letter and QSL card  
AOK Rota, Spain via NST transmission on 7705 sent full data card via NST FPO NYC 09512  
AT&T Dixon California WMO48 18755KHz returned full data card, typed on reg. card  
WWL20 AACR/ITT San Juan sent veri statement post card with full data

## LOGGINGS

## NORTH AMERICA

ALASKA:	5696	0552	NOJ Kodiak Air wkg CG1502 SSB (Chabak-CO)
	6738	1121	AKA Elmendorf AFB w/MAC70174 USB (Capilli-HI)
CANADA:	2182	0104	VAU Yarmouth NS tfc to "The Cape Cod" SSB (French-MD)
		0105	VBF Port Burwell ONT marine op tfc SSB (French-MD)
	4815a	1250	CJS30 Pt Arthor ONT EE tfc SSB (Wilson-OH)
	10500	1955	CGB4 COTC Drummondville QUE OM EE vm SSB (Kerrigan-IL)
	12923	0452	KCN RCN Vancouver V mkr CW (Mercado-CA)
	12983	0453	CFH Ellershouse NS CFS V mkr CW (Mercado-CA)
	15034.5	1520	Edmonton Military OM EE wx USB (Brooker-IT)
	16320	1802	CGB2 Drummondville QUE COTC OM EE/FF vm SSB (French)
	16948.5	1754	VCS Halifax NS marine op V-CQ mkr CW (French-MD)
U.S.A.:	2182	0106	NMF USCG Marshfield MA re 2670 best AM (French-MD)
	2738	0528	NMF26 USCG Pt Judith RI tfc USB (French-MD)
	4600a	2325	KAEB361 BLUEBIRD w/REDBIRDS EE SSB (Kerrigan-IL)
	5320	0008	NIK USCG Cape Cod MA Ice Best CW (Burton-OH)
		0040	(Wilson-OH)
	5437	1642	WUE3 USARMY Engineers Pittsburgh w/WUE4 (Wilson-OH)
	5692	0546	NEW Astoria Air USCG Warrenton OR OM EE w/#1494 SSB (Chabak-CO)
		0816	USCG New Orleans Air w/#1477 SSB (Chabak-CO)
		0433	USCG Houston Air w/#1459 SSB (Chabak-CO)
	5696	0247	NOR San Diego Air USCG w/AF1293 USB (Chabak-CO)
		0420	NOQ5 Mobile AL CGAS w/#1272 USB (Chabak-CO)
		0809	NOB SanFran CA CGAS w/MC SSB (Chabak-CO)
		0711	NOT Traverse City MI CGAS w/NOM SSB (Chabak-CO)
		0301	Cape Cod Air CGAS Otis AFB MA w/tfc SSB (Chabak-CO)
	7651	0441	VOA Greenville NC RR feeder USB (Davis-CA)
	7730a	0232	KRH50 Detroit MI QRA mkr CW (Wilson-OH)
	7820a	0030	WFI27 IIT NYC QRA mkr CW (Wilson-OH)
	8502	0015	NIK USCG Cape Cod MA w/ice best CW (Burton-OH)
	8993	1602	AFF41 MacDill AFB FL coordinating rescue & observer planes & vessels in Caribbean prior to APOLLC lift-off: FORWARD91, OLD SMOKY, RIADA, Pease Rescue II, CHILLI23, Navy 21500, et al USB (Compton-MA)
			
	9023	1442	AFA Andrews AFB MD OM EE tfc USB (Simon-NY)
	10515	1918	WEV40 ATT NYC OM EE vm SSB (Kerrigan-IL)
	11461	0037	WFK21 PREMI NYC QRA mkr CW (Burton-OH)
	12135	0255	NAM USN Norfolk VA tfc list CW (Burton-OH)
	12424.5	2015	KHT Cedar Rapids w/SHUNSHINE STATE USB (Simon-NY)
	12952.5	0150	MMH Baltimore R. V mkr CW (Thompson-NM)
	12905	1842	KLB IIT Seattle WA CQ mkr CW (Mercado-CA)
	1291C	0115	NMF USCG Marshfield MA CQ mkr CW (Mercado-CA)
	12949	0134	WSC RCA West Creek NJ V mkr CW (Mercado-CA)
	13141.5	0025	WOM ATT Ft Lauderdale FL tfc USB (Jacobsen-IL)
	13974	0054	NMC USCG San Bruno CA wkg N/WAK LSB (Burton-OH)
	14397	2355	AIR HQ USAF Wash DC w/Ham QRZ EE LSB (Beal-MA)
	14830	2256	WER54 AP NYC QRA mkr CW (Burton-OH)
	15470	0312	KKN50 State Dept Wash DC QRA mkr CW (Mercado-CA)
	20825	2210	WEU50 AP NYC QRA mkr CW (Burton-OH)

## CARIBBEAN

BARBADOS:	12709	2143	8PO C&Y St Phillip ID mkr CW (Thompson-IM)
BERTUDA:	8993	1350	NWU USN YL EE wkg Navy 1348 USB (Compton-MA)
CUBA:	7440	0534	IRTS Havana YL vm USB (Davis-CA)
	17605	2157	CLQ Havana R. CQ mkr CW (Burton-OH)

## CENTRAL AMERICA

CANAL ZONE:	6730	0815	AHF USAF Albrook Airways tfc SSB (Chabak-CC)
		2014	0226 AHF Albrook AFB w/a-c tfc SSB (Compton-MA)
COSTA RICA:	13024	0015	TII: CRI La Lima V mkr CW (Mercado-CA) 0115 (Thompson-IM)
MEXICO:	12776	2130	XFL Mazatlan R. CQ mkr CW (Thompson-IT)

## SOUTH AMERICA

ARGENTINA:	12988.5	0212	LPD91 Gen Pacheco R. V mkr CW (Thompson-IM)
BRAZIL:	10705	0308	PVL5 EMBRATEL Rio YL EE/FF-OM PP vm SSB (Chabak)
	12788	0200	PVZ USN COMGROUP Rio V mkr CW (Thompson-IM)
	14971	1950	PPL48 (Police net?) SS tfc w/PPF56 CW (Olsson-CT)
	18170	0005	EMBRATEL Rio YL EE/FF-OM PP vm SSB (Chabak-CC)
CHILE:	12337a	0150	CCS Armada de Chile Santiago V mkr CW (Thompson)
COLOMBIA:	12853.5	0135	HKC Buenaventura R. CQ mkr CW (Thompson-IM)

	13085	0105	HXB Baranquilla R. CQ mkr CW (Mercado-CA)
	17590	1820	5KM Colombian Navy clg OBC CW (Burton-OH)
ECUADOR:	17590	1958	HDN Ecuadorian Navy clg CCS CW (Burton-OH)
PERU:	17590	1910	OBC Navy Callao clg YWM CW (Burton-OH)
VENEZUELA:	17141.6	2202	YVG La Guaira R. CQ mkr CW (Thompson-NM)
	17590	2309	YWM Navy Maracaibo wkg LOL CW (Burton-OH)

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EUROPE

AZORES:	8947	0250	GSY Santa Maria Aeradio EE tfc SSB (Compton-MA)
	8967	2053	CUW Lajes AFB wkg Navy 1591 USB (Compton-MA)
BELGIUM:	2761	0823	OSU Ostend R. OM EE wx AM (Crawford-SCOTLAND)
	13068	0452	OST Ostend PTT V mkr CW (Mercado-CA)
DENMARK:	1813	0610	QXB Blavard R. marine tfc AM (Crawford-SCOT)
	12441a	0240	OVG4 Frederikshavn R. V mkr CW (Thompson-NM)
ENGLAND:	5795a	2349	GPT25/26 Bracknell V mkr CW (Burton-OH)
	8420a	0100	GKA2/3/4/5 Portishead R. CQ mkr CW (Scott-FL)
	8558	0246	GKB Portishead R. ID mkr CW (Brooker-MI)
	8591	0237	GKG Portishead R. ID mkr CW (Brooker-MI)
	10374.5	2355	GXA BRN London ID mkr CW (Olsson-CT)
	13120	2030	GKU52 Portishead R. OM tfc USB (Jacobsen-IL)
FRANCE:	12140	0244	FUB Navy Paris-Houilles R. clg FAAB CW (BurtonOH)
	18515	1220	FTS51 FTS Paris OM EE/FF vm SSB (Kiyomiya-JAPAN)
GERMANY, W.:	2775	2025	DAO Kiel R. OM EE marine tfc AM (Crawford-SCOT)
	13026	2235	DAL Norddeich R. V mkr CW (Mercado-CA)
GERMANY, E.:	13173	0510	DHS Rueden R. YL EE/GG vm USB (Mercado-CA)
IRELAND:	1827	0833	EJK Valentia R. OM EE wx AM (Crawford-SCOTLAND)
ITALY:	5000	????	IBF IENOMA Turin time sig w/EE/tt/FF annemt - special test - AM (Whitehead-MA)
	8470	0057	IRM Rome Medical R. AMVER rpt CW (Scott-FL)
	13016	0445	IAR Roma R. V mkr CW (Mercado-CA)
LATVIAN SSR:	8716a	2340	UQK Riga R. wkg EVBI CW (Burton-OH)
PORTUGAL:	8522.5	1732	GTU2 Monsanto R. CTAA mkr CW (Compton-MA)
POLAND:	8802.5	2150	SPC Gdynia R. OM EE/Pol vm SSB (Compton-MA)
NORWAY:	9014	0054	LFP Rogaland R. CQ mkr CW (Wilson-OH)
SPAIN:	8000	0100	EAD3 Madrid CQ mkr CW (Scott-FL)
SWEDEN:	12880.5	0143	SA32/4 Göteborg R. CQ mkr CW (Thompson-NM)
SWITZERLAND:	10554	1300	HE06 PTT Berne YL EE/FF/SS vm SSB (Crawford-SCOT)
USSR:	3922	1130	Leningrad Meteorological R. OM RR wx AM (Crawford)
	9110	0059	RDZ77 Moscow Tass SS nx CW//RG124 10120 (Burton)
	12250	2135	RHA41 Moscow Tass SS nx CW w/RKA79 (Burton-OH)

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AFRICA

AFARS&ISSAS:	12025a	2000	FTS Djibouti YL FF vm SSB (Hauser-OK)
	16245	2100	FKP A&I Aeradio w/SYD CW (Burton-OH)
CAMEROON:	9045.5	2342	TJF90 ITC Douala YL EE/FF vm SSB (Compton-MA)
ETHIOPIA:	19045	1130	ETS Addis Ababa YL EE/Amh vm SSB (Crawford-SCOT)
IVORY COAST:	5575	0144	TUF57 INTELCI Abidjan YL FF vm SSB (Compton-MA)
KENYA:	16245	2053	5XD Nairobi Aeradio wkg FKP CW (Burton-OH)
LIBERIA:	7830	2355	KKN44 US Embassy Monrovia QRA mkr CW (Wilson-OH)
LIBYA:	8959	0048	Tripoli Aeradio w/Italia 1935 & Khartoum Aeradio SSB (Compton-MA)
	8989	0111	Tripoli Aeradio w/Caledonia350 SSB (Compton-MA)

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ASIA

CHINA:	12871.5	2145	XSG CGRA Shanghai R. CQ mkr CW (Olsson-CT) 2110 (Thompson-NM) 2122 (Compton-MA)
	18585	0840	SIGS Shanghai YL EE only vm SSB (Kiyomiya-J) New vm?-Ed.
INDIA:	19490a	1440	OTS Poonn OM EE/Hindi vm USB (Kiyomiya-JAPAN)
ISRAEL:	5575	0036	Tel Aviv VolMet OM EE wx AM (Olsson-CT)
	8705	0220	4XZ Navy Haifa V mkr CW (MacLennan-ONT)
PHILIPPINES:	6738	1107	ATC Clark AFB Luzon w/D44ADC & SKYKING USB (Capili-HI)
	8840	0852	Manila Aeradio OM EE tfc USB (Trubee-HI)
SINGAPORE:	8630	1514	GYS4 BRN V mkr CW (Kiyomiya-J)
	8751.2	0845	9VG43 Singapore R. YL EE harbor rpt USB (Trubee)

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OCEANIA

AUSTRALIA:	10017	0458	VLS Sydney VolMet AM (Laves-TX)
	13128	0500	VLN AORTS Sydney OM EE vm USB (Mercado-CA)
HAWAII:	5519	1650	KVM70 Honolulu VolMet EE wx AM (Uerling-WA)
	5696	0505	NMO USCG Wahiawa tfc USB (Simon-NY) 0513 (Chabak)
	6738	1120	AGA Hickam AFB w/MAC67949 USB (Capili-HI)

	12965	0647	NPM USN Pearl Harbor? CQ mkr CW (Mercado-CA)
	13030	2336	KHK RCA Honolulu ID mkr CW (Mercado-CA)
GUAM:	6738	1112	AIE Anderson AFB a/c tfc USB (Capili-HI)
NEW ZEALAND:	12740	0207	ZLB5 Awarua R. CQ mkr CW (Thompson-NM)
	12943.5	0125	ZLP2 RNZN Iririrangi Waiouru V mkr CW (Thompson)
			1404 (Kiyomiya-J)
TAHITI:	9053	0800	FZ090 FTS Papeete YL EE/FF vm SSB//6850a (Chabak)

UNIDENTIFIED

4880	0127	???	Toronto w/various N. Ontario points w/fire related tfc USB (Brooker-MI)
5755	0127	KRF263	wkg KRF266, KSF265 & Mobile 14 USB (Burton-OH)
5917.5	2207	NSI/AOK	etc mkr USN xmtr site? CW (Wilson-OH)
8400a	0030	GLP20	ID & QSVing CW (Scott-FL)
10214.5	0158	"U"	beacon CW (Olsson-GT)
10255a	0220	KWS78	annoc freq CW (Burton-OH)
16335	2157	ROMEO DELTA MIKE	tactical? w/DWU CW (Burton-OH)
17688	0307	"XL"	jammer: grinder on IBA Israel CW ID (Hauser-OK)

ALL AT SEA

2716	0310	USS Vesole	DD878 w/H1 Seas OP USB (Simon NY)
	2225	NKIN USS California	DLGN36 w/CONTROL SSB (Simon-NY)
	0115	USN Tug YTB771	w/Portsmouth Control SSB (Simon-NY)
	0728	USS La Moire County	LST1194 w/USN Bermuda Cntrl AM (Simon-NY)
	0910	USS Fidelity	MSU443 w/Mayport Control AM (Simon-NY)
	2225	USS Dash	MSO428 w/US3 Inflict AM (Simon-NY)
4236	0421	GQHB	"Pacific Trader" EE to VIS USB - Do ship & shore use same freq? (Trubee-HI) Often not, Bill - Ed.
4300a	0513	"Chevron-Mobil"	position rpt EE SSB (Scott-FL)
5696	0611	NRPN	CGC Ironwood w/NMA & NMC SSB (Chabak-CO)
	0801	CGC Sherman	OM EE R. ck w/NOZ SSB (Chabak-CO)
	0805	CGC Pt Barrow	wkg NMQ SSB (Chabak-CO)
	0340	NPCR	CGC Dallas w/NMA OM EE SSB (Chabak-CO)
	0817	NJTB	CGC Cape Jellison wkg NOJ (Chabak-CO)
5795a	0107	Ocean Wx Sta	Kilo tfc w/GFT CW (Burton-OH)
	0259	Ocean Wx Vessel	LANT/1 to GFT CW (Burton-OH)
	0322	MDBE	"Weather Advisor" tfc to 3FT CW (Burton-OH)
6270a	0227	JENU	"Seihu Maru" cargo ship clg KLB CW (Thompson-NM)
6723	1912	UU-USS	Saratoga w/Jacksonville Ctr FAA SSB (Wilson-OH)
8201.2	0550	VDBD	"Island Princess" clg KMI EE USB (Trubee-HI)
	0648	W949	"The Vega" clg KMI USB (Trubee-HI)
	0710	"Sun Princess"	off Vancouver clg KMI USB (Trubee-HI)
	0720	G4AU	"Ariadne E." Cyprian ship clg KMI USB (Trubee-HI)
8204.2	0546	KFCN	SS Monterey off Eureka CA clg KMI USB (Trubee-HI)
	0618	WY5590	"Mermaid" cargo carrier to KMI USB (Trubee-HI)
	0725	WE4371	"Longbranch II" clg KMI USB (Trubee-HI)
8204.8	0727	LAVE	"Viking 5" EE clg KMI (Trubee-HI)
8217	0905	GHNW	SS Cathay EE clg VIS Sydney USB (Trubee-HI)
8223.6	0550	GSXK	"Freemantle Star" clg ZLW USB (Trubee-HI)
8360a	0405	5MOM	"Euclidea" liquefied gas carrier clg FFP3 CW (Thompson)
	1340	6ONZ	"Nanhua" clg XSG CW (Thompson-NM)
	0045	FNDX	"Zeebrugge" cargo ship clg NMF CW (Thompson-NM)
	1335	DZHY	"President Magsaysay" clg TIM CW (Thompson-NM)
8365a	1350	6MNC	"Acacia I" clg VPS CW (Thompson-NM)
	0016	SWXN	"Karos" cargo ship clg GDC CW (Thompson-NM)
	0327	SLGA	"Buenos Aires" clg SAGA CW (Thompson-NM)
	1340	ATAC	"Chennai Perumai" clg VVM CW (Thompson-NM)
	2353	5LWL	"Southwind" clg GKB CW (Thompson-NM)
	1250	6ZPP	"Tiong Yung" dry cargo ship clg XSK CW (Thompson-NM)
	2346	UYZM	"Kovrov" clg UAL CW (Thompson-NM)
	0040	KACK	"Sohio Intrepid" clg 8PO CW (Thompson-NM)
	0333	ONBN	"Bergul Enterprise" clg OST CW (Thompson-NM)
8770.4	1725	"Hongkong Reaper"	OM EE tfc to VCS SSB (Compton-MA)
8770.5	1514	HOOE	"The Oceanic" OM EE tfc to WOO SSB (Compton-MA)

AIRBORNE

6897.5	1300	AIR FORCE ONE	& Andrews 26000 w/AFA Andrews USB (Compton-MA)
8967	2037	E69SZK	OM EE clg LaJes AFB USB (Compton-MA)
8989	0108	"Ethiopian 701"	OM EE clg Khartoum Aeradio USB (Compton-MA)
	1317	SMOKY ZERO ONE	w/North Bay ONT via Andrews AFB phone patch SSB (Compton-MA)
	1338	Moroccan AF	CNAOC OM EE clg MacDill AFB SSB (Compton-MA)

11176 2234 Navy58227, RP3D Sqdn VXN8 Patuxent R. MD tfc to AFL Loring  
AFB ME USB (Burton-OH)  
11220 1328 BLUE ANGELS Flight Leader w/Carswell AFB re aerobatics via  
Scott AFB phone patch SSB (Compton-MA)

TACTICAL

The number of Tactical & At Sea loggings this month was enormous, forcing substantial editing--we have tried to be as fair as possible in selecting those of the widest interest & representation!"Spy" Nbrs way up 21

4495 0946 FOREST ROW EE w/SPEAR & STORM SSB (Trubee-HI)  
4622a 1100 MISSIONARY OM EE vm w/Short Count (Kerrigan-IL)  
4885a 1440 OH Natl Guard BULLDOG JUDGE w/Vodka Penny SSB (Wilson-CH)  
6697 0204 IVANHOE Norfolk Va EE tfc USB (Burton-CH)  
6705 2227 HONEYMOON-4 w/FOXTROT tfc SSB (Wilson-OH)  
6723 0036 RASPBERRY CECIL Jacksonville FL w/November 9 SSB (Chabak-CO)  
0149 RASPBERRY OCEANA VA w/FAIRFIELD SSB (Chabak-CC)  
0231 BRAVO GOLF w/RASPBERRY OCEANA re "BINGO" a/c: CLINCHER 312,  
DIAMONDBACK 102, STARFIGHTER 120 & WALDO 306 SSB (Compton-MA)  
0242 RASPBERRY BRAVO GOLF w/CUPCAKE 511 SSB (Compton-MA)  
0313 RASPBERRY SAN CLEMENTE w/SEALORD SSB (Chabak-CC)  
0328 GRAY EAGLE w/RASPBERRY LEMOORE SSB (Wilson-OH)  
0319 SEALORD w/RASPBERRY MIRAMAR, RASPBERRY NORTH ISLAND, &  
RASPBERRY ALAMEDA SSB (Chabak-CO)  
0401 RASPBERRY BARB Barbers Pt HI w/RASPBERRY PANTHER SSB (Chabak)  
0450 FAIRFIELD w/RASPBERRIES JAX & CECIL SSB (Chabak-CC)  
0558 KEY WEST CONTROL w/HOTEL MIKE SSB (Chabak-CO)  
0804 RASPBERRY LeMoore CA w/FOXTROT VICTOR SSB (Chabak-CO)  
6746 0152 HORIZON passing tfc for OLD SALT thru IVANHOE SSB (ComptonMA)  
6735 1327 NIPPAGON & KNIGHT RULER w/Trenton Military SSB (Compton-MA)  
6750 0009 HALFTACK OM EE vm w/Shortcount SSB (Compton-MA)  
6759 0320 CHANT @ Fallon NAS NV w/Chant 36 & Stinging Blueberry SSB  
(Davis-CA) Fallon NAS is a bombing range says Mr. Davis.  
6762 0134 COUNTY MAINSAIL w/48 & FIRESIDE 3 (YL) & RETAIL SSB (Compton)  
0053 CARDPLAYER w/SLOPE & GAZELLE CONTROL SSB (Compton-MA)  
1308 INMAN clg SKYBIRD INMAN SSB (Compton-MA)  
1311 EARLY 52 clg CONTACT on "frequency Quebec" SSB (Compton-MA)  
0221 HAMPSHIRE w/OVERCRK, PRESTO, WHITE GENACLE(sp?), ARTESIA,  
& BROKEN CROWN (context indicated BROKEN CROWN may be San  
Clemente, CA SSB (Compton-MA)  
0801 PAPRIKA w/various other tacticals SSB (Chabak-CO)  
8764m 1445 LIMA 12 clg QUARTET SSB (Compton-MA)  
8968m 1750 IVANHOE passing FLASH tfc fr DISPOSITION to OVERWORK for  
YAWL SSB (Compton-MA)  
8975a 1520 PHENOMENON passing tfc for DESTINY to GOLDEN HAWK, & w/  
7Z4D & other a/c SSB (Compton-MA)  
8979a 1420 HEAD DANCER w/551 & RAYMOND 1, & getting a phone patch thru  
FIRESIDE to RAYMOND 2, getting a phone patch thru 551 to  
Colombo, Panama wx. (Context indicated RAYMOND 2 to be lo-  
cated at Albrook AFB & 551 to be in or near Colombo)(Compton)  
9002 0556 WHISKY 2 w/O3CAR CHARLIE USB (Trubee-HI)  
0557 \*BEAVER w/DUNKIRK, USN Honolulu NFM (Trubee-HI)  
0602 TOREADOR USN San Francisco tfc USB (Trubee-HI)  
9006a 2205 MAGIC MAKER w/FANFARE SSB (Wilson-OH)  
9014 0230 RAYMOND ONE @ Albrook accepting tfc fr AF337 Scott AFB for  
HEAD DANCER SSB (Compton-MA)  
11243 1340 SEA FOWL w/SURVIVAL USB (Trubee-HI)  
0549 BOULDER DAM clg SKY KING USB (Trubee-HI)  
1915 IVANHOE OM EE vm alternating w/PHENOMENON OM EE vm SSB  
(Compton-MA)  
14445 1930 BOOTLEG OM EE tfc w/MIXTURE & R. ck w/GRAYHAWK USB (Beal-WA)  
9035a 1340 SWING BASE w/SWING 41 SSB (Wilson-CH)

"SPY" NUMBERS STATIONS

5810 0222 YL/EE 4-digit groups "Count 139" background echo AK (Davis-CA)  
5891 0620 ??/SS 5-digit grs to 0629 (Gaede-CA) OM or YL, AM or SSB, A1?  
6277 0606 YL SS 5-digit off 0608 w/"Final, Final" SSB (Hauser-OK)  
6770 0610 "Atencion 812-31" YL SS 5-digit, Same YL as 6277SSB (HauserOK)  
6795 0619 YL SS 5-digit "Final" @ 0620, tape reword 5/25/75 (Hauser)  
0610 "Atencion 730-187" YL SS 5-digit SSB 6/11/75 (Hauser-OK)  
8995a 1415 YL SS 4-digit, freq drifting badly 7/18/75 SSB (Scannell-MA)  
9000m 1410 YL SS 4-digit "138 1234567890 Cuente 91" fol by 91 gr msg,  
repeated, off @ 1427, "Final" not hrd SSB 6/20/75 (Compton-MA)

"SPY" NUMBERS STATIONS

9411.8 0522 SS YL 5-digit; het BBC-9410; strong, SSB 5/24 (Hauser-OK)  
 9451 0614 SS YL 5-digit groups SSB 5/20/75 (Hauser-OK)  
 9955a 2240 "754" YL EE(?-digit groups or no msg Glenn?) AM 4/14 (Hauser)  
 9958a 2139 "122 475" YL EE (That's all?!) off 2140 AM 7/2 (Svinicki-MI)  
 9975 0604 "Atención 317 208" YL SS 5-digit SSB (Hauser-OK) (Mullen-MT)  
 9976 0506 "Atención 294 45" YL SS 5-digit AM 6/13 (Davis-CA)  
 9985m 1330 "555" CW 5-digit; 3 msgs to 3 addressees, "092", "325", &  
 "183". Xmsn ended w/"TTT" 7/16/75 (Compton-MA)  
 12095m 1810 "Juliet Tango" YL EE 5-digit, "End" 1828 SSB 6/21 (Compton-MA)

RADIOTELETYPE

CHINA?: 10544.5 1405 BAL RY test 66wpm/425shift (Green-UT)  
 CZECHOSLOV.: 7900 0505 OLX2 Praha Podebrad RY test 66/425 (Green-UT)  
 13038 2200 OLV2 Prague RY test, Paris tfc (Brooker-MI)wpm?  
 CANAL ZONE: 15655 1330 NBA USN Balboa RY? test (Brooker-MI)wpm-shift?  
 CUBA: 14626 1151 CLN446 Prensa Latina Havana test (Brooker-MI)  
 ENGLAND: 7620.5 0520 3YA BRN Whitehall RY test 66/1850 (Green-UT)  
 FRANCE: 8023 0130 AFP Paris EE nx (Brooker-MI) wpm-shift, Jim?  
 FIJI ISLANDS: 5941 1355 3DN Nandi EE test, tfc 66/800 (Green-UT)  
 GHANA: 5801 0545 9GC Accra RY test 66/300 (Green-UT)  
 HIGH SEAS: 8301.5 0320 USS Spruance test, clg NCS 100/850 (Green-UT)  
 ITALY: 5760a 0125 IMB Rome RY test 60/??? (Scott-FL) Shift, Lloyd?  
 NORTH KOREA: 14570 0330 HML60 Pyongyang EE test, nx 66/425 (Green-UT)  
 POLAND: 17680 1555 SOQ36 Warsaw RY test to Havana ??? (Brooker-MI)  
 UNKNOWN: 5700a 0130 EE Diplo nx 60/??? (Scott-FL)  
 6780a 0040 "Circuit 8280" EE wx 60/??? (Scott-FL)  
 7664 0100 DPA SS nx to SA ???/??? (Brooker-MI)  
 10972 0200 US Govt? EE nx - ??/??? (Brooker-MI)  
 12500 0300 EE ry test (CTS?) 60/??? (Scott-FL)  
 15549.5 1327 PRELAPANAMA RY test ???/??? (Brooker-MI)  
 \*10491.5 0450 3XQ BRN QTH unk EE test 66/425 (Green-UT)  
 U. S. A.: 7628 0200 ANSA (Ital press) NY SS to SA ???/??? (BrookerMI)  
 9327.5 2016 UPI NY "A" wire in EE ???/??? (Brooker-MI)  
 14725 2041 DPA NY relay SS nx ???/??? (Brooker-MI)  
 6800a 0115 NAU USN San Juan P.R. test mkr 60/??? (Scott-FL)  
 USSR: 15495 1156 TASS RCC-75/RCE-58 etc RY test SS nx (Brooker)  
 VENEZUELA: 14700 1144 Prensa Latina Caracas RY test??/??? (Brooker-MI)  
 PUERTO RICO: 6800a 0115 NAU USN San Juan ID mkr 60/??? (Scott-FL)

#####  
 APOLLO-SOYUZ TEST ASTP MISSION JULY 15 thru JULY 24th 1975 H.F. / V.H.F. LOGGINGS  
 #####

Bob Burton:

11404.8KHz APOLLO CONTROL 2346 GMT July 16th message below  
 "I noticed you were patched into one of the NASA circuits here"  
 "Hello Houston, We've Completed the VTR down patch"  
 "Excuse me Deke....We're rewinding the tape..."  
 "This is APOLLO CONTROL...WE'LL return in 13 minutes for Hawaii tracking stn"  
 "...Hello Houston this is Apollo"  
 "Houston, this is Tom" (via Hawaii tracking station)

Steve Handler

13210KHz CAPE RADIO with test message count 2111 July 15th  
 13210 CAPE RADIO working ARIA ONE 2138 July 15th (ARIA=Advanced Range Instrum.Acft)  
 13210 CAPE RADIO working ARAIA TWO 2155 July 15th  
 13210 VANDENBURG working ARIA ONE 1944 July 24th  
 11183 VANDENBURG working ARIA ONE 2028 July 24th  
 .....

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# QSL REPORTS



Editor: Bill Cleveland  
2441 Fairview Drive  
Visalia, Calif. 93277

Verified countries -- 168

Deadline: 15th of month

It's your club -- vote for the candidates of your choice -- but please VOTE

WOW! From the number of reports the winter DX season must be here, even though the temperature still says summer. 56 reporters (12 for the first time this year--and a hearty summer season's greetings to all) with a total of 356 individual reports. Alan Mayer inches the country total ever higher with a QSL from Paraguay--the first from that country since Sept. 1972, and perhaps the first ever for SPEEDX--my records go back no further than that. Some interesting copies this month, so to save space I'll cut the small talk and get down to business.

## ANTARCTICA

AFAN RADIO: 6012, McMurdo, veri ltr in 18d, v/s J.T.Adams, Public Affairs Officer (SPARKS CA)

## EUROPE

ALBANIA: R. Peking Relay, 9780, date/fqy "Yenan--sacred place of the revolution" and "On Patrol" cds in 3 and 6 wks, no rp (FLEMING NY)

AUSTRIA: ORF, 6155, f/d "Landhaus" cd in 44d air for 1 IRC, EE rpt (BERGER TX); 9770, f/d "Meeting-place in the heart of Europe" cd in 47d air for ?? IRCs (DEATON GA); 15135, f/d cd "home of Joseph Haydn" in 66d air for no rp, EE rpt (SMITH FL)

BELGIUM: ORU, 6080, date/fqy map cd + pennant in 29d air for 1 IRC (BERGER TX), same cd in 71d for no rp (SCHWARTZ DE); 9755, same cd + pennant in 34d for 1 IRC (DEATON GA)

BULGARIA: R. Sofia, 9700, date/time "Ohrid University" cd + pennant in 225d sfc for 2 IRC EE rpt (SANSERINO CA)

CZECHOSLOVAKIA: R. Prague, 5930, f/d "Snow Mountain" cd in 35d air for no rp (BERGER TX), "Lipno Dam" cd + 18 color slides in 43d air, no rp (DEATON GA); 7245, "Lipno Dam" cd in 53d air, no rp (SMITH FL), 30th anniversary of liberation cd in 7 wks (FLEMING NY); 9540 "Castle of Prague" cd in 43d air, no rp (KUMMER KY); 11990, f/d cd w/black and white foto of pastoral scene in 45d air, no rp (MAHONEY IN)

FINLAND: R. Finland, 15185, f/d "Summer in Finland" cds in 16-21d air for no rp or 1 IRC (BERGER TX)(FLEMING NY)(KUMMER KY), f/d "Winter in Finland" cd in 19d air for 1 IRC (WHITE FL)

FRANCE: R. France Internationale, 11735, date/fqy orange/black station cd in 19d air for 1 IRC (WHITE FL)

GERMANY (Democratic Republic): RBI, 11840, f/d cd "Children w/Chinese Lanterns" in 53d air no rp (DEATON GA); 17880, f/d castle cd w/antique auto in 33d air for 1 IRC (WHITE FL)

GERMANY (Federal Republic): Deutsche Welle, various fqys, 4 cds of rural scenes in 50-150d for no rp (SCANNELL MA)

Sudwestfunk, 7265, veri in 43d for GG rpt, no rp, v/s Kraus (SCHWARTZ DE)

GREAT BRITAIN: BBC, 5975, usual no data Thames cd in 37d air, no rp (BERGER TX)

VOA, 7200, time/fqy "Kennedy Center" cd in 6d sfc, v/s Laura Fitz (HARDING CA)

GREECE: VOA, Kavala, 7270, time/fqy "Kennedy Center" cd in 4d sfc, v/s Monica Wall (MAHONEY IN), same in 7d (HARDING CA)

HOLLAND: R. Nederland, 6165, f/d cd of "Happy Station" staff in 28d (MILLER CA), "His, Hers & Theirs" cd and "Westerkerk" Church Tower cds in 22 & 30d, no rp (TESTA'S MA); 11950, f/d photo cd of Tom Meyer, et al in 11d air, no rp (LEISTNER'S CA); 11730, f/d "New Lutheran Church" cd in 12d air, no rp (SANSERINO CA), various fqys, sailboat and church cds for monitor svc (WILSON IL)(SCANNELL MA)

HUNGARY: R. Budapest, 6000, f/d blue palace cd in 66d air, no rp (BERGER TX); 7220, f/d pix "Fishermen's bastion with the statue of St. Stephen", 67d air, no rp (SMITH FL); 9833, plain purple cd in 25d air for 2 IRCs (ROMANI MI), same + pennant in 90d for MS (BOYCE WA), f/d blue cd w/DX Club info in 68d sfc, no rp (DEATON GA), f/d yellow cd with drawing of bridge in 61d air, no rp (SMITH FL); no fqy, orange cd in 3½ mo, 2 IRC + tape (TALBOT WI)

ITALY: RAI, 9575, f/d cd of painting by Gregorio de Ferrari, 41d air, no rp (BERGER TX), f/d cd w/painting of blue sky and water in 53d sfc, no rp (SCANNELL MA)

LUXEMBOURG: 6090, f/d coat of arms & antenna cd, 60d sfc, 2 IRCs (WHITE FL)

MALTA: Deutsche Welle Relay, 6100, f/d multicolored ring cd in 43d air, 1 IRC (BERGER TX), 21650, same cd in 150d air, no rp v/s Thiele (SRIDHAR INDIA)



MONACO: TWR, 11815, f/d cd of TWR studio complex in 16d air for 1 IRC (YAJKO PA) Bob, WRTH lists this as a Netherlands Antilles fgy rather than Monte Carlo. Are you sure? bc

NORWAY: R. Norway, 9645, f/d cd of Grand Hotel & Parliament Bldg in 14d air, no rp, (BERGER TX), same in 23d for 2 IRCs (VOKES TX), photo of town hall and harbor in Oslo in 16d, no rp (DEATON GA), "Spring of the Four Seasons" cd in 15d (WILSON IL); 11850, town hall and harbor cd in 20d air (TOMORI HI); 11870, f/d view of Oslo cd in 15d air for no rp (DAY CA); 15175, f/d cd of Norsk Folkemuseum in 47d air, no rp (FAMULARO NJ)

POLAND: Polish R., 11815, f/d "Thirty Years of People's Poland" cd and 30th anniv. cd in 52 and 56d air for no rp (DAY CA), 30th anniv. cd in 25d for 2 IRCs (VOKES TX), f/d cds (4) of shipbuilding, Warsaw skyline, the "Arts", map in 28d air, no rp (SANSERINO CA); 11840, Heraldic Arms cd in 59d air, no rp (MICKLEJEWski MN), "Thirty Years of People's Poland" cd in 45d air, no rp, taped rpt, v/s Jan Wierzbinski (McINTOSH PA)

PORTUGAL: R. Portugal, 6025, f/d ship cd in 15d air for 1 IRC (BERGER TX)

ROMANIA: R. Bucharest, 5990, TV Center cd in 43d, no rp (SCHWARTZ DE); 9570/11940, 2 f/d cds, "Romanian Antenaum" and a building cd in 60d air, no rp, + pennant and leaflets by registered mail (SRIDHAR INDIA)

SPAIN: RNE, 6065, f/d antenna cd in 47d air, no rp (BERGER TX), same in 50d + 170 page SS book, no rp (WHITE FL); 9630, same cd in 52d sfc for 2 IRCs and SS rpt (returned 1 IRC) (THOMPSON NM); 11925, antenna cds in 45-55d, air or sfc, for no rp, 1-2 IRCs by (DAY CA)(DEATON GA)(SANSERINO CA -- also received pennant)(SMITH FL)(THOMPSON NM); 15130, antenna cd in 52d sfc for 2 IRCs, SS rpt (THOMPSON NM), new color cd of "Centro Emisor de Ondas Cartas de Noblejas" in 56d air, no rp, EE/SS rpt (SMITH FL)

SWEDEN: R. Sweden, 11705, f/d blue/yellow map cd in 28-55d for 0-2 IRCs (JACOBSON IL) (ROJEWski WA)(SMITH FL), 50th anniversary cd in 50d air, no rp (SMITH FL); 15315, map cd in 21-33d air, 0-1 IRCs, (WILSON IL)(YAJKO PA), 50th anniversary cd in 2 mo air for no rp (EICHENHORN MI); 17710, 50th anniversary cd in 6 wks, no rp (BROOKER MI)

SWITZERLAND: SBC, 6120, f/d cd w/photo of Lago Maggiore, 13d air for 1 IRC (BERGER TX); 9535, f/d cd "Holbein Fountain--Basle" in 6 wks (FLEMING NY); 9725, "Holbein Fountain" cd in 49d sfc for 1 IRC, v/s J.A. Chisholm (MARTI CA), "Carnival of Basle" cd in 15d (WILSON IL); 11715, "Lago Maggiore" cd in 15-23d (DAY CA)(WILSON IL), "Holbein Fountain" cd in 49d sfc, no rp (LEVIN NJ), "Cathedral Tower - Basle" cd in 19d air for 2 IRCs (ROMANI MI), "Carnival of Basle" cd in 44d air for 1 IRC (DAY CA), f/d cd of old bridge near Intragna in 15d air for 2 IRCs (KARKI ID); 15140, "Carnival of Basle" cd in 2½ mo air for no rp (EICHENHORN MI), f/d cd w/black and white photo of Baroque Church in Tegna in 19d air for 1 IRC (THOMPSON NM); no fgy, no data cd in 1½ mo, no rp (NEBRON CA)

USSR:  
Lithuanian SSR: R. Moscow, 11870 (Kaunas), f/d cd of Grand Kremlin Palace in 37d air + pennant (HARDING CA)  
 R. Vilnius, 7230, f/d green stylized flower cd in 105d sfc for 1 IRC, EE rpt (KUMMER KY)  
RSFSR (European): R. Moscow, (all sites listed as Moscow except as noted), 5940 (no site) 7200 (Armavir), 9520, 9530, 9680, 9700, 9710, 15350 (Vologda), f/d Kremlin cd (BERGER TX) (MILLER CA)(SMITH FL), Grand Kremlin Palace (SMITH FL), flags of the SSR's (SMITH FL), microphone cd (HARDING CA), circle cd (VOCKEROTH PA), triangle cd (VOCKEROTH PA) in 33-61d air, no rp  
 R. Peace and Progress, 19 mb, f/d emblem cd in 21d air, no rp (JAKUBIAK MI)  
Ukrainian SSR: R. Kiev, 7035, f/d circle design cd in 98d air, no rp (WHITE FL); 9780, same in 63d air, no rp (DAY CA)  
 R. Moscow, 9700 (Nikolayev), f/d rocket monument cd in 37d air (HARDING CA); 11735, f/d Moscow University cd in 32d air (MAYER IL), Moscow Radio cd in 29d air + 1tr from Mrs. Stepanova (SNYDER CA) (sorry--this was Vinnitsa); 11750 (Lvov), city buildings cd in 37d air (HARDING CA) TX

VATICAN CITY STATE: Vatican R., 6165, f/d cd w/picture of studios, 15d air, no rp (BERGER 9605, same in 22d, no rp (JACOBSON IL); 15165, same in 50d, no rp (SRIDHAR INDIA)

## AFRICA

CAMEROON (Federal Republic): R. Cameroon (Yaounde), 6972, f/d map and antenna cd in 150d sfc, no rp, FF rpt (URAGUCHI CA). George, is this R. Yaounde which is listed as 4972.5? The QSL description matches that of R. Yaounde. bc

CHAD: Rdif. Nat. Tchadienne, 4904.5, f/d cd w/photo insert, in 20d after f/up, 2 IRCs (BARON PA)

EGYPT: R. Cairo, 9475, f/d cd of Nile boat in 38-104d air or sfc for no rp (BERGER TX) (DEATON CA)(YAJKO PA), Nefertiti sculpture cd in 34-36d air or sfc for no rp or 1 IRC (YAJKO PA)(DAY CA), cd w/engraving of the Temple of Isis in 57d air, no rp (MAHONEY IN)

ETHIOPIA: ETLF, 11830, blue cd and sked in 5 mos air for 2 IRCs and EE rpt, v/s Mrs. Eliane Mhodwam (TALBOT WI)  
 R. Ethiopia, 6185, Wallia Ixex photo cd w/veri statement as confirmed on back (see next page) in 20d air for 3 IRCs and EE rpt (JUNQUA JAPAN) Will do a little trimming and try to show both sides. bc

GHANA: GBC, 4980, f/d red/yellow/green bordered cd in 227d air for 2 IRCs and EE rpt (CLEVELAND CA); 2145, same cd in 128d air for no rp (SMITH FL)

IVORY COAST: R. Abidjan, 11920, f/d antenna cd in 21d sfc for 2 IRCs (YAJKO PA)



## RADIO ETHIOPIA

Tel. 121011 Addis Ababa  
P.O. Box 1020

### TRANSMISSION FACILITIES

LOCATION	POWER	FREQUENCY	WAVE BAND
	100 KW.	872 Kc.	344m. MW
Addis Ababa	100 KW.	6185 Kc.	48m. SW
	<del>100 KW.</del>	7290 Kc.	41m. SW
	100 KW.	9610 Kc.	31m. SW
Harrar	100 KW.	854 Kc.	351m. MW
Asmara	50 KW.	944 Kc.	315m. MW

**Times.** M-F. GMT 0330-0600, 1000-1300, 1430-2100  
Sat. 0330-0600, 1000-2100. Sun. 0500-2100.

**Languages.** Amharic, English, Somali, Arabic, French, Afar, Tigre, Tigrigna, Galligna.

Your QSL:  Confirmed  Not Confirmed

**KENYA:** Voice of Kenya, 4915, f/d blue aerogram w/picture of transmitting stn in 14d for 2 IRCs, EE rpt (DEAN OH)  
**LIBERIA:** VOA, 7280, Capitol cd in 15d (BERGER TX); 17875, same, in 12d (VOCKEROTH PA)  
**MALAGASY (Republic):** R. Nederland Relay, 11730, f/d "Tower of Tears" cd in 42d air for 2 IRCs (WHITE FL); 11740, f/d "Happy Station" cd + pennant in 32d for 2 IRCs (HARDING GA)  
**MALAWI:** MBC, 3380, f/d green form ltr in 137d air for 1 IRC, v/s D.C. Mandalasi (BARON PA). Congrats on #100. bc  
**MOROCCO:** VOA, 7180, Kennedy Center cd in 7d (THOMPSON NM); 15205, same in 8d (HARDING GA)  
**MOZAMBIQUE:** R. Clube de Moçambique, 4924, f/d studio cd in 17d air for 2 IRCs, EE rpt, v/s A Seguire (BERGER TX), same in 19d for 2 IRCs (DEAN OH)  
**NIGERIA:** V. of Nigeria, 7275, f/d green/white cd w/stn insignia in 14d for 1 IRC, EE rpt, (BERGER TX), same in 18d, no rp (DEATON GA), same in 20d, no rp (URAGUCHI CA)  
**RWANDA:** Deutsche Welle Relay, 11965, Africa map cd in 25 wks, no rp (BROOKER MI)  
**SAO TOME:** Emissor Reg. de S. Tomé e Príncipe, 5338, cd (see below) in 5 mo (SPARKS CA)

ARVORE SECULAR EM S. TOME  
—S. TOMÉ E PRÍNCIPE

### BILHETE POSTAL

O EMISSOR REGIONAL DE S. TOMÉ E PRÍNCIPE, 15/5/79

agradeco o verifica o relato do escuta refero-  
ronto à omissão transmitida no dia  
12/1/1075 entre as 08.00 e 08.30  
na frequência do 5.338 KHz.  
banda do 50 metros enviado  
por WILLIAM S. PARRIS

Cx. P. 44  
SÃO TOMÉ  
VIA PORTUGAL

S. FRANCISCO  
CALIFORNIA  
2050



*Dear Bill,  
in strict accordance  
will be 4807 kHz.  
Yours sincerely,  
James*

**SIERRA LEONE:** SLBS, 3316, f/d personal ltr w/description of SLBS, in 59d air for 3 IRCs v/s E.P. Roberts, Eng.-in-Charge (SCHWARTZ DE)

SOUTH AFRICA: RSA, 4875, 5980, 7270, 9525, 9695, 11900, 15175, f/d cds in 15-90d air for 0-3 IRCs. Zululand (THOMPSON NM-4 cds)(JACOBSON IL)(MARTI CA)(TOMORI HI), Nyala Ram (BERGER TX)(DENNIS IN), "Johannesburg from Carlton Center" (ROMANI MI)(WILSON IL), spl Gerry Wood Aerogram (NEERON CA)  
SABC, 3250, f/d industries cd in 14d for 2 IRCs (THOMPSON NM); 3980, same in 14d, 2 IRCs, (THOMPSON NM)  
SPANISH SAHARA: R. Sahara, 6095, map brochure in 93d air for 2 IRCs, SS rpt, v/s Pablo I. De Delmases, Director (SCHWARTZ DE)  
SWAZILAND: Swazi Musicradio, 4980, f/d form ltr in 16d for 2 IRCs (STRAUMANIS IL)  
TWR, 6070, cd in 13d air (SPARKS CA)  
TOGO: Rdif. du Togo, 5047, date/time globe cd in 27d air for 2 IRCs, FF rpt (WHITE FL)  
ZAMBIA: ZBS, 9580, f/d plain cd of confirmation in 30d air for 1 IRC, EE rpt (JAKUBIAK MI)

## ASIA

BRUNEI: R. Brunei, 7215, date/fqy map/mosque cd in 20d air for 2 IRCs (VOKES TX), same in 16d for 3 IRCs (BERGER TX)  
CHINA (People's Republic): P. Peking, 9780, date/fqy "Red Flag Canal" cd + pennant in 17d air (DEATON CA), same in 18d for 2 IRCs (HOFFMAN PA); 17673, same, 24d (JACOBSON IL); no fqy, "On Patrol" cd in 12d air (MARTI CA)  
CHINA (Republic): V. of Free China, 17720, f/d cd w/painting of birds, 67d air + pennant, no rp (SMITH FL)  
INDIA: AIR, 9875, Buddhist Monastery cd in 10 wks for 3 IRCs (BROOKER MI); 9912, f/d cd of "Wall Painting" in 8½ mo (FLEMING NY); 11810, f/d cd of Taj Mahal in 182d air, 2 IRCs, (STRAUMANIS IL), Buddhist Monastery cd in 84d for 1 IRC (BLXBY CA), "Lady at her Toilette, Bundi School 1760" in 230d air, 2 IRCs (SANSERINO CA), wall painting of elephants cd in 231d for 2 IRCs (LEISTNER'S CA), 2 cds (no desc) to veri same xmnsn at 30d interval, in 30d air for MS (SCOTT FL)  
INDONESIA: RRI Ujung Pandang, 4720, f/d studio cd + ltr in 23d air registered for 1 IRC, EE rpt (BODELL OR)  
RRI Surakarta, 4932, f/d cd w/Indonesian scene in 30d air for 3 IRCs, Indo rpt (SCOTT FL)  
V. of Indonesia, 11790, fqy/date folder QSL in 354d (w/apologies for delay) air for 1 IRC EE rpt, v/s Ratna Marina (SMITH TN)  
ISRAEL: IBA, 9495/11643, f/d cd "Jerusalem--The Western Wall" in 45d air, no rp, HB rpt, (LEVIN NJ); 12025, f/d "Shrine of the Book & Knesseth Bldg" cd in 21d air, no rp (SANSERINO CA), same in 48d, no rp (MAHONEY IN); 15490, same in 45d, 2 IRCs (THOMPSON NM), same in 2½ mo, no rp (EICHENHORN MI); no fqy, same in 30d, no rp (BROOKER MI)  
JAPAN: NHK, 5290, f/d Kamakura cd in 12d air, no rp (BERGER TX), date/fqy "Tachibina" dolls cd in 7d (MILLER CA), same in 16d (BROOKER MI); 9505, "Tachibina" cd in 8d (MILLER) 15105, "Tachibina" cds in 15d (MARTI CA)(THOMPSON NM); 15195, same in 9d (DAY CA); 15300, same in 18d (WILSON IL); 17825, same in 12d + pennant (YAJKO PA) CA  
NSB, 2959, f/d blue/yellow/green cd w/picture of radio equipment in 6d air, 2 IRCs (DAY)  
JORDAN: R. Jordan, 9560, f/d "View of Eddeer at Petra" cd in 15d for 2 IRCs (VOKES TX)  
KOREA (Republic): R. Korea, 11925, f/d cd of dancing girls w/small logo on front, in 40d air, no rp (URAGUCHI CA)  
KUWAIT: R. Kuwait, 14415, f/d folder cd w/map, studio & history, in 45d air for 1 IRC (JAKUBIAK MI)  
MALAYSIA: BBC, no fqy, usual cd marked Far Eastern Relay in 45d, no rp (TALBOT WI)  
PHILIPPINES: VOA, 15290, date/fqy Kennedy Center cd in 9d (HARDING CA)  
VOP, 9580, f/d white cd w/VOP insignia in 21d air, 2 IRCs (ROJEWSKI WA), f/d pink VOP cd in 55d air for 1 IRC (SRIDHAR INDIA) Both with v/s Thelma M. Maceda  
RYUKYU ISLANDS: VOA, Okinawa, 7165, Kennedy Center cd in 7d (THOMPSON NM)  
SARAWAK: R. Malaysia Sarawak, 5005, cd in 17d (SPARKS CA)  
SINGAPORE: R. Singapore, 11940, f/d Housing Development cd in 18d, 2 IRCs (VOKES TX)  
TURKEY: TRT (V. of Turkey), 9515, "Nasreddin Hodja" cd in 60d, no rp (BROOKER MI), f/d "Puppets from Shadow Plays" cd in 27d, 2 IRCs (ROMANI MI), f/d "Karagoz Hacivat" cd in 30d (FLEMING NY); 11880, f/d cd, "Keloglan-bald hero of Turkish folk stories" in 29d, no rp (SMITH FL), Nasreddin Hodja cd in 48d (YAJKO PA), Bosphorus Bridge cd in 16d, 2 IRCs, (WHITE FL); 15165, Keloglan cd in 30d, 1 IRC (MAYER IL), man on donkey cd in 41d, no rp (EICHENHORN MI)  
USSR:  
Armenian SSR: R. Yerevan, 11690, f/d plain, small white cd in 3 mo registered air for 1 IRC (BLXBY CA)  
Kirghiz SSR: R. Moscow, 17745 (Frunze), f/d rocket monument cd in 39d air (HARDING CA)  
RSFSR (Asiatic): R. Moscow, 11960 (Vladivostok), 12000 (no site), 12050 (Khabarovsk), 15100 (Khabarovsk), 15130 (Vladivostok), 15210 (Petropavlovsk-Kamchatsky), 15245 (Nikol-ayevsk-on-Amur), f/d cds in 29-45d air for no rp. "View of Kremlin from the Moskva R." (DAY CA)(HARDING CA)(MARTI CA), "Grand Kremlin Palace" (DAY CA 2 cds)(KARKI ID)(TOMORI HI) Sputnik Memorial (THOMPSON NM)(SMITH FL), "Flags of the Republics" (DAY CA), microphone and circles (DAY CA), Moscow University (DAY CA 2 cds), Space rocket monument (DAY CA)  
Uzbek SSR: R. Tashkent, 9600, f/d blue "Chimes Tower" cd in 68d air, 1 IRC (stamps ripped off in transit--file on post office stamp collectors!) (WHITE FL)

## OCEANIA

AUSTRALIA: R. Australia (f/d cds, v/s Peter Homfray), 5995, 9570, 9580, 9760, 9770, 15320, 15355, 17795 in 15-28d for 2 IRCs, 3-6 mo for no rp. Kangaroo cd + pennant (BERGER TX), Nocturnal sugar glider (GAEDE CA)(DAY CA)(BERGER TX), surf lifesaving boat (GAEDE CA)(THOMPSON NM), aboriginal cave painting (GAEDE CA)(TESTA'S MA)(MARTI CA)(BROOKER MI), Koalas (GAEDE CA)(TESTA'S MA)(DAY CA)(BROOKER MI), San Michele Sheep Station HARDING CA) ABC Brisbane, 9660, f/d Queensland map cd in 5d air, 1 IRC (DAY CA)  
ABC Perth, 9610, f/d Western Australia map cd in 22d for 1 IRC (DEATON GA), same in 100d (WILSON IL), 29d (DENNIS IN); 15425, same in 23-40d for 0-2 IRCs (EICHENHORN MI)(DAY CA)(MAYER IL)  
ABC Sydney, 6090, f/d map cd in 15d air for 1 IRC (SMITH TN)  
NEW CALEDONIA: R. Noumea, 7170, f/d map cd in 23d air for 3 IRCs, FF rpt (BERGER TX), same in 11 mo aftr ltr to stn and French Embassy in DC. FF rpt (SCHWARTZ DE)  
NEW ZEALAND: NZBC, 7540, f/d farm scene cd in 23d air for 2 IRCs (WHITE FL); 9540, f/d cd of snow-capped mountain in 30d air for 3 IRCs (BERGER TX); 15110, snow-capped mountain cd in 26d for 3 IRCs (YAJKO PA), same in 29d for 2 IRCs (THOMPSON NM), same in 35d (WILSON IL), same in 38d (FAMULARO NJ), country home scene in 29d for 2 IRCs (HARDING CA) 15280, pastoral scene in 44d air for no rp (SCHWARTZ DE)  
PAPUA NEW GUINEA: R. Southern Highlands, 3275, f/d veri ltr in 136d sfc for 1 IRC, EE rpt, v/s Aloysius Sanota, Stn. Mgr. (MAYER IL)  
NBC, Port Moresby, 4890, f/d ltr in 195d air for 3 IRCs (YAJKO PA), same in 448d for 2 IRCs (THOMPSON NM); 9520, same in 115d for 3 IRCs (DAY CA)  
SOLOMON ISLANDS: SIBS, 5020, f/d gray map cd in 19d air for 1 IRC and EE rpt (MAYER IL), same in 12d air for 2 IRCs (MIKLEJEWSKI MN)

## S. AMERICA

ARGENTINA: RAE, 9690, f/d green globe cd in 3 mo, 1 IRC, EE rpt (VOCKEROTH PA)  
BOLIVIA: R. La Cruz del Sur, 4875, mountainside cd + pennant and ltr in 65d for MS and EE rpt (BOYCE WA)  
BRAZIL: R. Educadora de Braganca, 4945, f/d ltr in PP, in 60d sfc for MS and PP rpt, v/s Sister Maria Alexandre (SCOTT FL)  
R. Nacional de Brasilia, 15245, f/d map cd in 18-30d for 0-3 IRCs, EE rpts (SANSERINO CA) (KUMMER KY)(MCINTOSH PA)  
ECUADOR: LV del Napo, 3280, ltr and picture pc in 20 wks for MS, v/s Rev. Luis Tirado (SPARKS CA)  
Rdif. Ondas Quevedeños, 3325, ltr + pennant in 10 mo for MS, v/s Humberto Alverado P., Director-Gerente (SPARKS CA)  
R. Sur Colombiana, 5010, ltr in 5 wks for MS, v/s Dario Silva Silva, Dir. (SPARKS CA)  
HCJB, 5970, 9560, 10910 (??? you sure about this, Tom?), 11910, 15115, 15300, 17720, f/d cds in 25-36d for MS or 0-2 IRCs. Illinizas Mt. (MARTI CA), wood carving in Ecuador (DAY CA)(HARDING CA), transmitters (reprint) (YAJKO PA), cactus (SMITH FL), waved albatross (SMITH FL), staff (YAJKO PA), bird w/fish (THOMPSON NM), no desc. (MILLER CA-2 cds)  
PARAGUAY: R. Nacional, 6025, SS ltr w/fqy only and veri statement, 10 kw will go to 100 kw soon, in 56d air for MS and SS rpt, v/s Carlos Montanor (MAYER IL)  
PERU: LV de la Selva, 4825, ltr and pc in 4½ mo aftr f/up for MS, v/s Jorge O. Rodriguez Donayre, Gerente (SPARKS CA)  
VENEZUELA: R. Monagas, 3325, no data SS ltr w/letterhead in 125d air for 1 IRC and SS rpt, v/s Maria T. Barroeta (BIXBY CA)  
R. Universidad, 3395, ltr and pc in 2 mo for MS, v/s Ido. Enrique O. Dubuc R., Director-Propieterio (SPARKS CA)  
Rdif. Venezuela, 4890, SS no data QSL cd w/photos of DJ's, in 25d sfc for 1 IRC and a Tennessee Hillbilly sticker (SMITH TN) Now we know how to pry loose an elusive QSL! bc R. Juventud, 4900, date/fqy cd of teenagers dancing, 27d sfc for 1 IRC and SS rpt (BERGER TX)  
R. Marquisimeto, 4990, date/fqy network cd in 32d sfc, 1 IRC and SS rpt (BERGER TX), same in 41d for no rp, EE rpt (SMITH FL)  
R. Rumbos, 9660, f/d cd w/view of Liberator's Ave., 20d air, no rp, SS rpt (URAGUCHI CA)

## N. AMERICA

CANADA: RCI, 6085, 6135, 9625, 9650, 11860, no data cds w/stn logo in 8-51d sfc, no rp (FLEMING NY)(NEBRON CA)(EICHENHORN MI)(SMITH FL)(DAY CA)(DEATON GA), speaking to the world cd in 17d (VOCKEROTH PA)  
CBC Northern Svc, 5960, Eskimo sculpture cd in 35d (MARTI CA), same in 31-35d (MAHONEY IN) 11720, same in 35d for 1 IRC (KARKI ID); 15325, same in 32d (FAMULARO NJ). These are f/d  
CFRX Toronto, 6070, f/d carnival cd in 33d for 2 IRCs (VOKES TX), same, 8d (SMITH TN)  
CKFX Vancouver, 6080, red cd of CKWX w/CKFX mentioned and marked in, in 11d for 1 IRC v/s Tom Peacock, Prog. Mgr. (MAYER IL)  
CHNX Halifax, 6130, fqy/date white cd in 8-9d, no rp (SPUTO FL)(FAMULARO NJ)

COSTA RICA: R. Capital, 4832, ltr in 9 mo aftr f/up, for MS (SPARKS CA)

Faro del Caribe (TIFC), 9645, f/d cd + pennant, 25d for 1 IRC, EE rpt (LEISTNER'S CA)  
CUBA: R. Habana, 11760, f/d yellow/white circle design cd in 39d air for 1 IRC (MARTI CA)  
11930, f/d green/white design cd in 118d, no rp (BERGER TX), f/d red/white/blue circle  
design cd in 7½ mo, no rp (VOCKEROTH PA)

GUATEMALA: TGNA, 3300, date/fqy Quetzal bird cds in 14-28d air for 0-2 IRCs, EE rpts,  
(BERGER TX)(SCANNELL MA)(WHITE FL)  
LV de Nahualá, 3360, f/d plain yellow cd + pennant in 19d air for 1 IRC and SS rpt  
(MAYER IL)

R. Mam, 4825, SS ltr w/fqy and veri statement + pennant and stn data in 30d for SS rpt  
and MS (WHITEHEAD MA), same in 32d for 1 IRC and SS rpt (MAYER IL). v/s for both ltrs  
H. Teresa Herrera, Secretaria

## RADIO MAM

4825 KCS

Escuelas Radiofónicas Cobricón Huitón , 1 de Agosto de 1975.  
CABRICAN - Quetzaltenango  
Guatemala, C. A.

SR. E. JAMES WHITEHEAD

ESTADOS UNIDOS DE AMERICA

Estimado Sr. Whitehead:

Recibimos su carta de fecha 9 de Julio, informándonos de su sintonía del día 8 de Julio de 1975, a las 19:28 a 20:06 (hora Guatemala. Su informe es completamente correcto y de acuerdo con nuestra programación.

Agradecemos su información, especialmente valiosa por haber sido recientemente inaugurada esta Emisora Cultural.

Radio Mam, de inspiración cristiana, se halla ubicada en Cobricón, un pueblo de la sierra de Guatemala, a 3.000 metros de altura. Sus habitantes son casi en su totalidad indígenas de la raza Mam, descendientes de los Maya-quichés.

El transmisor es de 1 KW de potencia. De momento, los programas se llevan a cabo de 16,00 a 20,00 horas (guatemalteca). Y la programación general es la siguiente:

- música (marimba, ranchera, variada, clásica, etc.)
- agricultura, salud, puericultura, cocina.

Religiosos

- para la familia
- infantil
- juventud
- sobre el Popol Vuh
- Radionovelas

Noticias, etc. Radio Unión.

En la Emisora trabajamos cuatro personas a tiempo completo, dos de las cuales son indígenas de la comunidad. Además otras personas colaboran en la elaboración y traducción de programas. Varias de ellas realizan un trabajo voluntario.

Radio Mam está afiliada a la Federación Guatemalteca de Escuelas Radiofónicas, a la que pertenecen actualmente otras seis emisoras.

Agradecidos por su información. Adjunto se servirá encontrar un banderín conmemorativo de la inauguración, celebrada el 11 de Enero del presente año. Y una tarjeta de Guatemala.

Muchas gracias por su fotografía. Atentamente,

H. Teresa Herrera  
Secretaria

HAITI: R. 4VEH, 11835, f/d cd w/photo of native, 124d sfc, no rp (DEATON GA)  
HONDURAS: R. Progreso, 4920, f/d SS ltr w/small pennant in 14d for 1 IRC, SS rpt (BERGER)  
same in 28d for no rp (MIKLEJEWSKI MN)  
R. Swan, 6185, no data SS ltr in 18d for EE rpt and 1 IRC (JONES MS)

APARTADO  
882

NO DE PIEDRAS

# RADIO SWAN

1100 K. C. - 6195 K C. Banda Internacional de 49 Metros

TELEFONO  
51-18-23

SAN PEDRO SULA,  
HONDURAS, C. A.

24 DE JULIO DE 1975.-

SR. JACK R. JONES  
304 ROBINHOOD ROAD  
JACKSON, MS. 39206  
U. S. A.

ESTIMADO SEÑOR JONES:

NOS COMPLACE SOBREMEDERA DARLE RESPUESTA A SU ATENTA CARTA, EN LA QUE NOS DA INFORMES, MUY IMPORTANTES PARA NOSOTROS, ACERCA DE LA RECEPCIÓN DE NUESTRA EMISORA EN SU PAÍS.-

NUESTRO MAYOR EMPEÑO AL FUNDAR ESTA EMPRESA DE RADIO, HA SIDO Y SERÁ, DARNOS A CONOCER EN OTRAS LATITUDES, DIFUNDIENDO NUESTRA CULTURA Y NUESTRA HISTORIA.

ESTAMOS TRANSMITIENDO EN NUESTRAS FRECUENCIAS DE ONDA CORTA EN LAS BANDAS DE 19-31-49 Y 60 METROS, RESPECTIVAMENTE, ADEMÁS DE NUESTRA ONDA LARGA EN LOS 1.100 KILOHERTZ, DURANTE LAS 24 HORAS DEL DÍA.

HEMOS TOMADO BUENA NOTA DE SUS REPORTES, LOS CUALES SERÁN TOMADOS MUY EN CUENTA PARA MEJORAR EN LO QUE CABE, NUESTRAS TRANSMISIONES DIRIGIDAS A SU BELLO E IMPORTANTE PAÍS.

PRÓXIMAMENTE LE ESTAREMOS ENVIANDO UN BANDERÍN ENSEÑA DE RADIO SWAN, COMO UNA MUESTRA DE AGRADECIMIENTO POR SU GENTIL CORRESPONDENCIA.

REITERANOS LE NUESTRAS MAS SINCERAS MUESTRAS DE CONSIDERACIÓN, NOS ES GRATO SUSCRIBIRNOS COMO SUS ATTOS. Y Ss, Ss.,

  
RALPH H. GODARSE  
GERENTE

NETHERLANDS ANTILLES: R. Nederland Relay, 6000, f/d cd "New Lutheran Church" in 7d, no rp (SCANNELL MA); 6165, same, no time stated (DAY CA), Happy Station Crew in 19-42d (MAYER) (DEATON GA); 9215, same in 28d (SMITH FL)  
TWR, 11815, f/d "Flamingo Island" cd in 11d + pennant for 2 IRCs (BERGER TX), in 23d for 3 IRCs (HARDING CA), in 97d for no rp (DEATON GA)  
UNITED STATES: KGBL, 5980/9615, 2 f/d cds w/San Francisco scenes in 38d for MS (HARDING CA)  
UN Radio, 15235, f/d blue/white cd in 19d sfc, no rp (MAYER IL); 21670, same in 9d (HARDING CA)  
VOA, 5955, 9565, 9670, 9705, 15250, 17710, Kennedy Center cds in 7-12d (LEVIN NJ) (SMITH FL) (THOMPSON NM)  
WINB, 15185, f/d plain white cd in 7d for MS (BARON PA); 17720/21580, same (2) in 17d for MS (HARDING CA)  
WWV, 10000, f/d "Arapahoe Chief" cd in 27d, no rp (MARTI CA)  
WYFR, 6155, f/d microphone cd in 13d for 2 IRCs (KARKI ID); 15110, same in 25d for MS (MARTI CA)

Whew! Didn't know whether I was going to make it or not with those ltr QSLs. Several people came up with the correct language for last month (Esperanto) and a couple had the correct translation (No Parking). First one in was Chris Hansen, and his prize should have arrived by now. This month's sign may be a little tougher. Try **NỘI Y VIỆN - XIN ẨM LÃNG** it--you'll like it. Well, maybe not--but it's a common one. AND IF YOU HAVE READ THIS FAR AND HAVEN'T VOTED YET--DO IT NOW! 73's, *Bill* 8/18/75

  
SIGNS  
OF THE  
TIMES

SEPTEMBER CONTRIBUTORS PAGE

Each contributors name is preceded by a number. This number indicates how many SPEEDX columns a specific reporter contributed to this month. Credits for columns/sections other than SWBC, QSL and UTE are not listed here, they are recorded separately by the Membership Chairman, Art Glover.

5	BARON, BRUCE	PA.....R4C	1	LEWIS, RICHARD	PA..HQ-140X
3	BEAL, BART	WA...SB-313	2	MAC GOY, DON	AZ....R-392
*2	BENJAMIN, LORENZO	CA...SX-190	1	MAHONEY, MIKE	IN..AR-88DM
*1	BERGER, JEFF	TX...DX-160	4	MARTI, WALTER	CA...DX-160
2	BERNSTEIN, ROGER	GA...DX-160	1	MAYER, ALAN	IL...SPR-4
5	BIXBY, MARK	CA...HA-225	*4	MC INTOSH, RANDALL	PA...DX-160
4	BODELL, BOB	OR...SPR-4	3	MERCADO, MARJO	CA.....R4
2	BOWEN, PETER	NS.CAN..EDY-570	4	MIKLEJEWSKI, STAN	NM...D-7000
1	BOYCE, DENNIS	WA...GE-PORT	3	MILLER, AL	OH..HRO-500
3	BROOKS, ALAN	CT..DX-150A	*3	MILLER, WILLIAM	CA..YORK-21
2	BROOKER, JIM	MI..GRF-5100	2	MUJCAHY, GIARAN	ENG....U-800
1	BUTTERFIELD, BOB	MA...HQ-100	2	MUILEN, WES	MT...SX-190
1	BURTON, BOB	OH....R391	4	NEBRON, LARRY	CA...SX-190
1	CAPILI, JIM	HI...SPR-4	1	NUTTER, RON	KY..UNELC07
1	CATEY, BOB	IL...SX-133	2	OLSSON, ERIC	CT...SPR-4
2	CHABAK, MIKE	CO...DX-150B	2	PARIS, GREG	MI..DX-150B
4	CLEVELAND, BILL	CA...SPR-4	2	PIMBLETT, NIGEL	ALB..DX-150A
1	CRAWFORD, WM.	SCOT..TR-6002	1	REDMAN, RON	IL...P-1660
1	DAVIS, JAMES	CA...GR-54	*4	ROJEWSKI, DON	WA...DX-160
1	DAWSON, ARCH	CA...SPR-4	*5	ROMANI, DAVID	MI..DX-150A
3	DAY, EDWARD	CA...SX-190	1	SANSERINO, RALPH	CA....R-392
4	DEATON, JEFF	GA...DX-160	1	SAVU, MIKE	MI..DX-150B
1	DEAN, DENNIS	OH..HQ-180A	3	SCANNELL, MARK	MA...SW-717
1	DENNIS, AMEL	IN...SX-190	4	SCHWARTZ, RICHARD	DE...SX-190
1	EAGEN, TIM	PA...HQ-180	2	SCOTT, LLOYD	FL..FFR-502
3	EARHART, KEN	PA...SX-190	1	SIMON, DAVID	NY...SX-190
3	EICHENHORN, SANDY	MI...SPR-4	1	SMITH, DAVY	AL.....S-85
*2	ESTES, WILLIAM JR.	MS...SX-190	5	SMITH, TOM	FL..HA-600A
5	FAMUJARO, RALPH	NJ...XCR-30	2	SMITH, WOODY	TN..TRANS-0
*1	FERGUSON, DAN	WV...SB-310	4	SNYDER, DOUG	CA...SPR-4
1	FLEMING, KEVIN	NY...DX-150A	1	SPARKS, BILL	CA.....R4B
1	FRENCH, BOB	MD....S-108	3	SPIUTO, TOM	FL...DX-160
1	GAEDE, ALLAN	CA...HQ-180	4	SRIDHAR, R	INDIA..EBS-124
1	GREEN, DALE	UT.....??	1	STRAUMANIS, ANDY	II...SW-717
2	HANDLER, STEVE	IL...SX-190	3	SVINICKI, JEROME	MI...SPR-4
1	HARDING, BARRY	CA..DX-150A	3	SZOT, KEVIN	CA...R-390
4	HAUSER, GLENN	OK...HQ-160	5	TATBOT, LARRY	WI...SB-313
1	HERBOLD, AGNES	CA...SX-190	1	TANNENWALD, LEON	NY.NORME4DE
1	HICKMAN, MEL	OR...A-2515	1	TESTA, FRANK & KAY	MA...DX-150
1	HOFMAN, CHARLES	PA...DX-160	5	THOMPSON, GLENN	NM..HQ-145A
2	HOLBROOK, HANK	MD...SP-600	1	TOMORI, ROBIN	HI..RF-1260
6	JACOBSON, JOE	IL...SPR-4	3	TRAUTSCHOLD, JOHN	WI...SB-310
*4	JAKUBIAK, DAVID	MI..TRANS-0	2	TRUBEES, BILL	HI...SPR-4
*1	JERNAKOFF, PETER	NY...SB-313	1	UERINGS, JAMES	WA...S-120
1	JESSEN, WILBUR	OR...R-530	*3	URAGUCHI, GEORGE	CA...DX-160
4	JONES, JACK	MS..DX-150A	*2	VAN FOSSEN, JEFF	OH...DX-160
5	JUNQUA, GIB	JAPAN.....R4C	1	VOKEROTH, JOHN	PA...SX-190
3	KANNRY, JOE	NY...XCR-30	1	VOKES, BOB	TX...XCR-30
3	KARKI, KEN	ID..DX-150A	1	WAITERS, JOHN	FL...R-1530
1	KELLY, CHRIS	WI...GR-54	4	WHITE, JOHN	NJ...SPR-4
2	KERRIGAN, PAT	IL...HA-230	1	WHITEHEAD, JIM	MA...SX-190
1	KIYOMIYA, T.	JAPAN...SPR-4	1	WILSON, DAVE	OH...SCOTT
1	KUBINSKY, JOHN	PA..P-SONIC	3	WIISSON, BOB	IL...XCR-30
*1	KUMMER, MARVIN	KY...D-7000	4	YAJKO, BOB	PA...DX-160
*1	LARSON, EDWARD	WI...SX-130	3	ZIYMER, BOB	WI...SPR-4
4	LAVES, AIAN	TX...DX-150A	2	ZIMAROWSKI, MARK	MA...DX-150
3	LEISTNER, IOU & E.	CA...SPR-4	3	ZINK, GEORGE	CA...SPR-4
1	LEVIN, JAY	NY...DX-160	*@1	LICKIDER, TRACY	MA..DX-150B

@ Name out of place. We are extremely happy to welcome 15 first time reporters. There is not enough room to list them in this paragraph, therefore I have placed an asterisk \* in front of their names. Thanks to 116 contributors this month. Who said DX was poor! *Ellie*

