

OFFICIAL BULLETIN

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NORTH AMERICAN SHORTWAVE ASSOCIATION



JUNE

1965

HEADQUARTERS

1503 FIFTH AVENUE, A2

ALTOONA, PENNA. 16602..

EXCEPTIONAL RESPONSE!

The frontal page editorial of last months *Frendx* really met the eye and the mind of quite a majority of members. Never has hdqs seen such interest, rcvd so much mail on any point or topic before. Oldtimers, novices, even members who had never written or reported to the bulletin previously, "sounded off!" Response was surprisingly great. What was most interesting, and perhaps in best keeping with NASA, was that 99% of the mail agreed with what had been suggested here at hdq; The other 1% felt retaliation the only resort, most effective way to cope with the situation, the OM concerned. All in all, we are very pleased, even gratified that so many members responded. To say the least, it was most unexpected! It shows however, that there are numerous in our ranks who truly do believe in the ideals of our motto and when opportunity presents itself, they step forward to prove it. Many thanks to one and all!!!

B.E.

BE A CREDIT TO YOURSELF/CLUB/HOBBY!!

Anyone can write a reception report, but not all, not even the most experienced of the oldtimers, can do so creditably to himself, the clubs he belongs to and the hobby he pleasures in. It isnt exactly necessary that an official form be used, although certain clubs have them, various stations prefer them. What counts most is the completeness of the report, its usefulness/value to the station...no matter it be BCB, SWBC, ARO or what. In line with this, NASA hopes to soon have a special column as a regular feature in each edition of *Frendx*. A committee will be appointed, will be comprised of DXers interested in each of the major types of DXing. Collaborating, they will edit the columns each month. It will be suggested that they begin from "scratch" being that it is apparent that even some oldtimers need a "refreshment course"...and so that the newer DXers learn wisely, are rewarded with more than usual/average verifications, and to prove to the stations of the world that our wish is to help them, cooperate with them by being monitors/reporters worthy of their interest.

Some of you will be contacted in near future re the committee pretaining hereto; It be our hope you will reply sincerely, affirmatively. Meantime lets everyone make all the reception reports we send to stations reflect credit on us, our clubs and hobby!

This edition of *Frendx* is possible because of the interest/efforts of fifty-nine NASA members who reported. Were you one of the 59???? Or are you just along for the ride???

FRENIX is the official publication of the North American Shortwave Association. It is not copyrighted. There are no subscriptions; Only sincere and active members in good standing are entitled to receive copies by application/joining the organization and paying required fee (\$3.00 per year to residents of North America, \$4.50 per year to all others). This and all editions are made possible through the combined cooperation, support and interest of the club officers, editorial staff and reporting members.

Our motto "Unity and Friendship"

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GOOD WILL, LIKE A GOOD NAME, IS WON BY MANY ACTS...AND LOST BY ONE. AND WHILE ALWAYS STRIVING FOR PERFECTION, THIS IS STILL A VERY HUMAN WORLD. THUS, SHOULD YOU PERCHANCE FIND FAULT, EITHER IN THE CONTENTS HERE, OR WITH OUR AIMS, WONT YOU BE SO GOOD AS TO LET US KNOW? TNK YOU! B.O.D.

The North American Shortwave Association
is in affiliation with
The Association of North American Radio Clubs

ANARC REPORTS

Written by NASA Reps Doug Benson and Frank Peters

First of all this month, we of NASA want to pass along belated, but nonetheless hearty, congratulations to ANARC for its first anniversary as an organization, celebrated 4/20. Also to extend a many tnx to Exec. Sec. Don Jensen for his work/efforts towards making said organization the reality it is fast becoming "A voice for North American Radio Clubs".

An interesting question has been raised of ANARC through your representatives. Serge Neumann, NASA/ASWLC member, sent letters urging ANARC's consideration of a possible alliance with the DX Alliensens (ANARC's Swedish counterpart) in solving the problem of lack of specific frequency announcements by the worlds broadcasters. Serge notes that some broadcasters already are announcing frequencies in use, while others still cling to the "meter band" generalization. We passed this letter de Serge, on to the ANARC Frequency Recommendations Comm, within whose boundaries any such action would supposedly fall...along with our offer of aid toward solution.

This problem besetting SWLs is not new, nor are the complaints thereto. For many years broadcasters have specified that an accurate and complete reception report must contain an indication of frequency, and we've had at least three non-verification letters rcvd due errors in frequencies we listed. How simple it would be were stations merely to take the few extra seconds to announce the correct frequency of their emission! Much waste and errors would be eliminated! At this writting, we are awaiting word from Dick Wood, ANARC Frequency Recommendations Committeeman, on action planned or proposed. And may we point out that YOUR individual ideas and opinions are very importnat, as are your suggestions in this matter. A short letter from Serge has set some wheels to move, and might concievably be the beginning of the end for "meter band only" violators. We will keep you up to date on this phase of ANARC's work as it progresses.

Jan Tuner, president of the DX Alliensens in Sweden, says that the "ANARC Story" will appear in the Sept. issue of the Alliensens News Bulletin to be distributed along with the SCIXers bulletin at that time. It might be pointed out that the Alliensens has been in existence for some years now, and is composed of the major Swedish DX clubs, and its requeste for information and publication of same is a good indication of the esteem which ANARC is rapidly gaining throughout the radio world.

Back on the Freq Recomm Comm for a moment; Dick Wood has anncd the selection of August Balbi as collaborator for the West Coast and Joe Rudolph for East Coast. General letters seeking support have been mailed to all stations beaming to KA, with favorable response rcvd so far from TWR, Monaco. The recommendation to Radio Sweden for improved reception here, via a change in freq, was rcvd with quick action/compliance...The committee sez it is now working on better reception from Norway and Denmark, two of the most difficult stations to hear, even though their relative proximity to the US would seem to indicate the opposite.

The Manufacturers Liason Comm, headed by ASWLC's C.M. Stanbury, is still seeking volunteers to work toward a better understanding between SWL's and mfrs of sw rxs. If you are interested in cooperating/helping along these lines, drop us a note and we will get in touch with C.M. for you.

Did you know that NASA pays for its affiliation in ANARC? According to fee sked, each club pays \$2.00 per year per representative, with this number being based on the total membership of the club. Therefore NASA presently pays the sum of \$4.00 per fiscal year.

And since part of this fee comes from the money you pay in club membership, isnt it sensible that you take an interest? ANARC needs your support, and we, as your NASA Reps are always needful of your ideas, suggestions, comments. Write to either of us today, your letters could perhaps head the hobby on the road to more fun and pleasure, added enjoyment to you and your fellow SWLs/DXers. Doug Benson, 614 Main Street, Apt. 30, Laconia, New Hamp.....Frank Peters, 820 West 34th Street, Chicago, Illinois. 73!

AROUND THE CLUBS

The CDXC, in its May edition of Cadex, had some pointed words for the SWBCers in its ranks. Seems as though, even with naming of most capable Gerry Klinck to editorship of section thereto, no members submitted any reports. Executive Dave Bennett let it be known that if support for the section was not shown soon, it would be dropped from pages of Cadex. We of NASA are surprised at the laxity hereto on part of CDXGers, for a number of them are known to be tops in SWBCing. We'd sure like to see them get the lead out, back Gerry up and have the SWBC sections par the other FB ones that Cadex contains. So, if any NASA members who are SWBCers, and are co-CDXGers, show your stuff, send duplicate reports to both clubs.....The ASWLC's Exec. Editor, C.M. Stanbury, wasn't too pleased with the way ENRC/PE's Hank Bennett went along with the RPDXC re requirements for QSLs, etc. C.M. said to Hank "All right, sheep, lay down with the lion...and be eaten".....The first bulletin of the WIDX (West Indian DX Assn) has been mailed out/rcvd here at hdq. Our opinion is that with any worthy amount of support, it will become one of the better. We just hope that recent developments in that area of the world won't be QRM factors preventing the clubs growth/expansion.....The CIDXC announces its new officers: President-Jin Rzakiewicz, Editor-Garry Porter, Treasury-Earl Peters, Public Relations-Lorne Jennings, Awards Editor-Ambrose Maxim, Cardswap Ed.-Clarence Green. (Latter two OM are NASA members.)... Letter rcvd here from the KYDXA (it was sent all KYDXAers and friends) says that due to lack of support/interest, it may have to fold or merge. Dave Reed can no longer continue as EE, no other member seems to want the job. All KYDXAers were asked to vote as to whether they wish a merger to be sought (providing no one of members is willing to take over EE work.) Latest actions/developments, results of voting not known here at this time..... Word from the Editor-President* of GLDXSWC sez his club is small at present and its bulletins have few contributors, but with help of ANARC, and in time, it is hoped things will be improved.*Fred Wright..... Here at NASA, Bill Strait has been named as editor of SWL-CHC column, HamBand sec. With Bill as Affairs Coordinator of SWL-CHC, needless to say his work will be FB.

MEMBER OF MONTH

Take an OM with a full time vocation, an AXL and jr ops; Add his attending business school and taking care of many chores at home - result is U have a mighty bizzy fellow. You'd wonder how he ever finds time for anything else, especially a hobby. Yet he does, and with unequaled enthusiasm. All you need do friend is take a gander at one of the NASA HamBand Roundup sections; For therein you will find proof that tis befitting we here this month salute editor DICK LITTLE, one of the most FB in our hobby. Yea, one of the most FB de "deep in the heart of". Dick goes far in doing his sections each month....He spends hours on them, makes them acceptable via his "down home" style. Even DXers who have no serious interest in the hambands follow his writings. This in itself is a tribute to his efforts! He is known far and wide, is respected, held in high esteem; Yet no "glory" do he seek....He does his sections because, as he sez, he hopes he is of help and is perhaps making someone happy in the hobby...and after all, isn't that what club are for? "Little Richard" (all 200 plus pounds of him. Hi!) is a firm believer in our motto and goes out of his way to live up to/promote it. Proud we should be, proud we are, to sound off our sincere tnx to him and to designate him NASAer of month.

CLASSIFIED

For sale: Xntr, FB for code practice, etc. Also tape records, need adjustments (that is tape recorder!) Other items of interest and/or use to SWLs/DXers. Write; WPE@GCZ, Rural Route 2, Box 104, Stanley, Wisc.

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NEW MEMBERS



6 '65

Jack Page Jr/WPE5DXH. "I hrd about NASA via tapesponding with members Ed Smith and Bob Binau. Age is 16 and I am a junior in highschool. Rx is a Hammarlund HQ100A and I use a 275' longwire antenna. Other shack equipment is a Wollensak T524 tape recorder. My DXing is done on the ham bands and altho school work limits my listening, I have thus far hrd 50 countries, confirmed 34 and 40 states hrd, 32 confirmed."

Jack Gladden. "Graduate of TCU, worked as reporter for Fort Worth Press before entering Navy in '62; Presently stationed in Philippines, will end tour of duty this Nov. Age is 28 and am single. DXing interests are in SWBC and MW/BCB. Rx is an S120 and at this time use a longwire antenna (have also used TV antenna and wonderless window screen at times.) Other shack gear is a Sony TC464 recorder. Am interested in contests and awards, also photography, writing and traveling. Hrd about and joined NASA via my old pal Dick Little, our HamBand editor, fellow Texan."

Ted Parcel. "Have had my rx, an S108, for about a year, but have only started sending out reports. Now have 8, with 10 still to be QSL'd. My antenna is a longwire and a dipole. Also have a "Q" multiplier which I built. (I like to build kits!) Most of my listening is on SWBC, but I also give the BCB a go at times. Am a highschool student, 14 years old. Am interested in contests, awards and stamp collection. Read about NASA in the 1965 PE Communications Handbook."

Ray Miller/WPE2NCK. "Member George Hall, a good friend, told me about NASA. I am 12 years old and a 6th grade student. My rx is a Hallicrafters SX110, antenna is a 50 ft. longwire. I like to DX the hambands, have 101 QSL's to date, 43 states and 22 countries verified. I also listen to BCB. Other interests are awards, contests, cardswapping, and fishing. I hope to become a good member and regular reporter."

Stan Gordon/WPE3GHF. "I am 15 years old and in the 10th grade, have been an SWL for about seven months. When I graduate, I plan to go into electronics. I DX on the SWBC, ham and utility bands, have 22 states and 15 countries QSL'd so far. Equipment here is a Lafayette HE10, Hallicrafters S119 and SkyRider 23, a code oscillator and novice xmtr. Antenna is a vertical, also 2 75' longwires. Hrd about NASA in '65 Comm.Hndbk."

Donald Stock/WPE/EHP. "Am a highschool student, 14 years old. Rx is a Hallicrafters SK99 with a 90' longwire antenna. I listen to SWBC as well as BCB and so far have 32 QSL's. I play the trumpet and am a stamp collector; Am also interested in awards and contests as well as cardswapping. I belong to NNRC and hrd about NASA from various members that I swapped acrds with."

Ernest Black/K2REV. "The handle here is Ernie, am 52, a college graduate and work in the administration end for one of the major airlines. For SWLing, I use a Zenith rx, TransOceanic model; Antenna is self contained extended rod. Other equipment is too numerous to mention (I've been a ham for 20 years!) Interests, aside from those connected to radio, are piano, painting and hi-fi. Read about NASA in WRTH."

Michael A. Lee. "22 years old, am in the Strategic Air Command-USAF; Due to rotate to some unknown destination in August. Though I have been DXing for only a little more than three months, I already have hrd 45 countries, QSL'd 22. My shack consists of a Hammarlund HQ145X and a Hallicrafters S120. Antenna is a 50' longwire. I monitor all bands, am interested in awards and contests. DXing has opened up a new world for this country boy stationed far away from home. I read about NASA in the '65 WRTH."

Richard Warner/WPE7CFV. "Have been SWLing for about six months and presently have 25 countries verified. Am 18, will be college bound come September. My rx is an SX110 and I use a Mosley SWL7 trap dipole antenna. Am very interested in awards, contests, card-swaps. Aside from SWLing, I also DX the BCB and Hambands, have 24 states QSL'd. Other of my interests are coin collecting and golf. Herad about NASA from member Gary Fredricks, FB DXer here in my hometown, good buddy of mine."

New Members cont'd...

Dale Marks/WFE9HMY. "Am 13. Live on a farm. My rx is a Hallicrafters S108 and I use a longwire antenna. Interests are in MW and SWBC, also Space. Have only been DXing for about 2 months; Have 14 QSLs so far. Other of my interests are hunting and baseball. Got started in DXing through letters to/from Larry Marshall who told me about NASA."

Larry Bennett/WPE2NEU. "Am currently a senior at St. John's University, majoring in math. Expect to graduate next January. Am 19 and sensitively single. Shack here has a HeathKit GR9; Q-multiplier and 4 trak stereo recorder; Antenna is 135' longwire. DXing is done on SWBC, Ham and MW bands. Have logged 25 countries to date, QSL'd 19, thirty states, QSL'd 28. Am interested in awards, contests, cardswaps, also coins as well as photography. First hrd about NASA via member Mel Flannagan."

renewals...RENEWALS...renewals

Very pleased we are to welcome back the following OM for another year on NASA team: Ed Smith, Clarence Green, Ed Barkowski, Jerry Sullivant all for their third year; and Ambrose Maxin, Ernie Zecchini, Dave Kilborn for their second.

JUNE BIRTHDAYS

Although the list isnt too lengthy for the month, nonetheless numerous are the good wishes we extend to following members now a year older; Mny heppy returns to - Ron Seager, Dave Hailey, Bill Boyle, Roy Henricks and Jerry Hartweg.

BITS DE BUDDIES

Ricky Cohen notifies us of his change of QTH to: 107 Locust St., Winthrop, Mass. Mel Flannagan reports he now has his WPE call, WPE4IHE.

Member Don Jensen informs us he has, after eyeballing new HRO500 of Frank Peters, got one for himself. He thus probably becomes the #2 OM to have/own this "dream" rx.

Card from oldtimer Curt Webber sez he has added a new rx to his shack too, its the SX122. Sez he has a new antenna up now.

Alan Johnson aks we QSP tnx to Ferdinando Martino Sr. for the penpal QTHs he sent.

Joe Rudolph suggests we have a Letters to Editor column. (We agree to act on this in next bulletin Joe!)

Mr. N. Churhury, Ranga Daudpier (Silhet) East Pakistan wants a USA penpal that is interested in science, electronics and/or farming. (This via August Balbi)

FB FOR YOUR SHACK

For \$2 you can get a 42x65" wall map of the USA from: Superintendent of Documents, Government Printing Office, Washington, D.C. 20402. This is the new revised color edition, first to be published since 1953.

Revised program of NASA Awards are now in works and will most likely be sent all members as part of July bulletin.

NOTE RE MAIL

Matters regarding mail service are always quite important and of interest to those of us in our hobby and clubs, so we were pleased to note in recent newspaper that Deputy Postmaster General, F.C. Belen says that by 1st of 1967, next-day delivery of first class mail will be in effect. He sed overnight mail delivery would be accomplished by the fastest transportation available, whteher it be by plane, truck, rail. He also mentioned that it would be necessary to increase first class mail rate to 6¢ to help pay for speedier service. (No mention was given 3rd class mail!!)

PAID

Exec. Secretary-ANARC, Don Jensen reports that fee for coming year have been paid by ASWLC, NNRC, NASA, WMRC, GLDXSWC, CIDXC and ACRC. Still to remit are the CDXC, NRC, KYDXA and IRCA.

UPCOMING

Plans and arrangements are now being made to have Friendx frontal pages commercially printed. This will involve the heading only. Then, in not too distant future, we hope to have all individual section headings printed likewise. These improvements are being made possible due to monetary donations sent to hdq by certain members who have done so voluntarily, unsolicited.

CONVENTIONS

Though NASA has no immediate plans about a convention, mny clubs have; We would then request all NASAers attending such, to let us know what went on, what they did and who they met, etc. Send data to hdq.

NASA NEWSROOM NASA

Doug Benson Editor. 614 Main Street Laconia New Hampshire 03246 USA

The Newsroom this month features some choice bits of information.. Some interesting, most important, some humorous, and all with an eye toward offering you news you probably won't find anywhere else..

Credit Culprits Cleverly Caught The shopper using a stolen or overdue account credit card can quickly be identified by a new electronics detective developed for sales clerks' use. When the clerk punches the customer's account number on a telephone-sized device, an electronic memory drum in the credit office checks the number and can activate a warning light to tip off the clerk, without alarming the culprit. If the account is okay, the unit just prints a validating stamp on the sales slip. (Dick Jenneman)

WINS nixes Rock Radio station WINS NYC has killed off rock and roll with its new all-news policy. New programming sked calls for an hour divided into 46 minutes of news and 14 minutes of commercials. Five deejays are out, and the human voice is once again restored to a modicum of dignity. (D. Jenneman)

Church Fellowship Hans Give Missionary Rig A SW ham transmitter, with enough power to (says the news release from AP) reach any spot on the earth is being set up at the Christian Church (Disciples of Christ) at Indianapolis, Indiana, to communicate with missionaries throughout the world. The rig is the gift of the Disciples Amateur Radio Fellowship. Many missionaries overseas are ops, and the new gear will enable the Church to keep in contact with them. (D. Jenneman)

Fire kayos Wisconsin station Fire destroyed this month the two-story building housing WKBT-TV and radio station WKBH at LaCrosse. All equipment, save two cameras, was lost. The radio outlet was back on the air quickly, sharing facilities of WLSX, a block away. The stations were considered vital to the dissemination of flood warning information. (D. Jenneman)

SAC Inquiry at Madison, Wisconsin The State Aeronautics Commission has set a public hearing in Eau Claire on the application of Post Broadcasting to erect a 2,000 foot high TV mast near Fairchild. The inquiry was prompted by complaints from local pilots. (Jenneman)

Laugh of the month from Ron Luyster; The National Aeronautics and Space Administration has issued its annual telephone directory to employees. Included in the current issue is an instruction sheet, telling our noon-shot scientists...how to use the telephone.

New FCC Commissioner For three months now, the FCC has been one man short, with the resignation of Frederick Ford. Last week, the pres. announced the name of Ford's successor; 59-year-old James J. Wadsworth former delegate to the United Nations. (Henry Harding, submitted by Ron Luyster)

Air Navigation Aid Pilots can now tell how fast they're actually moving in relation to the earth. The first ground-speed indicator in aviation history has been developed by National Aer. Corp. for use with the NARCO Distance Measuring Equipment. Basically, it works by noting changes in distance and direction to radio beacons, indicating the results immediately on a speedometer dial. (#Science Bulletin" de former Newsroom editor Ron Luyster)

TV Oddities from around the World as submitted by Ron Luyster, from an article appearing in TV Guide Magazine by Martin Codel....

In Nigeria, where TV shows must balance culture and entertainment, "Highway Patrol" got the green light for a cultural undertaking, due to the use of traffic lights, which had just been installed in Lagos and Ibadan. The show supposedly taught the audiences what the lights were for.

An unusual station in Dhahran, Saudi Arabia is operated noncommercially by Aranco to keep oil company workers and their families happy. That nation recently contracted here in the States for a 13-station system..

There's no television in Israel, there are some 6000 to 7000 sets in use there, picking up signals from stations in Lebanon and Egypt. Also possible is reception from Rome.

A station at Djakarta Indonesia is the pride and joy of President Sukarno. Seems it's staffed by 500 Civil Service workers, even though it's on the air less than two hours a day.

More than 70 of the 114 U.N. members now have television in their lands. Among those that don't are such major countries as the Union of South Africa and Greece.

Moscow, while working round-the-clock to offset VOA and RFE emissions, has done little in the way of exportation its own TV shows. They've offered some of their best films to stations in Asia and Africa, but there have been few takers.

The ITU takes a licking^P Postmaster-General Grounoski has announced plans to issue a new 11-cent postage stamp commemorating the Intern't'l Telecommunications Union, celebrating its 100th anniversary. The time and place of first-day sales to be announced.

Short "Newsroom" Shots on the Communications Satellite Corporation's new Earlybird satellite, now aloft and working:

It's synchronized with the earth's rotation...will appear to perch in space..the first fulltime, fixed-position satellite available for commercial use..the AP has applied for its own news channel on the satellite, having filed on April 15th...COMSAT owns 56 per cent of the corporation, with 45 foreign nations splitting the rest..Sponsors wondering whether the public will accept a six-tenths of a second delay in receiving replies during their transatlantic telephone conversations. Earlybird weighs 85 pounds...Contains 240 two-way voice channels... The company will orbit 3 to 18 more satellites by 1967...Amount of money spent on this one \$6,600,000....COMSAT officials telling the stockholders no quickie profits are going to be realized..It may take till 1970 for profits to begin rolling in...FCC has the big job of deciding who should have control of its ground receiving stations, the company or the users...The company has yet to draw up a schedule of rates...

(Above from info collected by Bill Eddings, Ron Luyster, Ye Ed.)

Fuel Cell Conversion A newly-developed fuel cell battery can convert liquid fuel directly to electricity. The battery, just 12 inches square, produces 100 watts of juice. It operates on Methanol at a temperature of 140 degrees Farenheit, and was developed for military use by Esso Corporation.(Science News Letter)

The teenagers will love this dept. Three RCA scientists report a communications solution that will eventually enable 1000 varied conversations to be transmitted over a system that now carries only 1.

(cont. Page 3)

Drs. Olson, Belar and Rogers of RCA Labs reported the system before the 102nd annual meeting of the National Academy of Sciences. It seems that, in the future, machines will be able to analyze the smallest part of a spoken syllable, a "syblet"; and since only 550 such syblets make 1370 syllables, conversations using just parts of words can be carried on with new "intelligizer" receivers at the terminal end. The receiving apparatus will unscramble the syblets into complete words. (Science News Letter)

Do-It-Yourselfers Acclaim new electronic devices Armed with just a screwdriver, Joe Doiturzlefer can make his own hi-fi set, loudspeaker, home babysitter, et al, with a new set of electronic "building blocks" developed by International Rectifier Corporation of El Segundo. The new do-it-yourself concept, "IRElectronics" is a line of electronic blocks operating from standard household AC or batteries. They're 25 solid-state modules, sealed in clear plastic as you get them, along with some 19 accessories. They're supposed to do away with the biggest headache to the experimenter...the drudgery needed and skilled hands necessary to solder delicate component parts. With this new line, the only assembly requirements are the ability to tighten a few screws. (Science Digest)

Vox Box Steering Wheel may be the best way to give an astronaut mobility in space, says Honeywell in a 287-page report to NASA Admin. Working on personal space flight control, they've come up with the ideal solution to the problems besetting a free-spaceman in his clumsy suit. All the space adventurer need do, they propose, is to speak into a helmet microphone, activating a computer which will fire small jets, thus turning the astronaut in the direction needed. If he wants to make a tight turn, for instance, the word "yaw" spoken three times, will do the trick. A slower turn requires only one word. Direction of the yaw to be determined by saying "plus" or "minus". They experimented with the astronaut's eye positions to move him (no dice. How does he go backward?) and humming different tones into his computer-activating microphone (Again nix, says Honeywell, as all spacemen would then have to be Caruso's). Even simple "puffing" into the mike was ruled out. (It uses up too much oxygen and clouds the helmet's viewplate.) via Bill Eddings, de Time Magazine

Canadian Broadcaster Changes Call Canadian SW outlet CBUX, 6160 kos., last month officially changed its call letters. CKZU is the new call. The station operates solely as a medium-wave relay broadcaster, and the shortwave call is rarely heard. (Ye Ed.)

Carline Still Going Strong Despite governmental furor (see Newsroom last month) Radio Caroline North is still going strong. Our overseas source reports then testing and asking for reports to Box 3, Ramsey, Isle of Man. (Ye Ed.)

Air Force Automation Main is yet another step closer to a machine that can think by itself without being programmed to do so. The Air Force has developed a machine that learns by its own mistakes. It's being built into the Force's "self-organizing flight controllers".

Skipping Radar A method of looking through the great sheet of polar ice that covers Antarctica is to bounce radio waves off the bottom of the ice. It will chart the ground's fluctuations under the icecap. With radar, instantaneous measurements are possible, which often required a full day's work with the old method of bouncing shock waves off the bottom. (Science Digest)

Deaf Persons Using Telephone via oscilloscope On the west coast, Bell Systems have arranged a cathode ray oscilloscope to enable a deaf customer to use the telephone. In placing a phonecall, the deaf man watches the screen as he lifts the receiver. If he sees a continuous wave form representing the dial tone, he knows he can dial. Then he'll see another wave shape...either a ringing signal of seconds duration, or a busy signal of one second each. If the ringing signal suddenly gives way to a rapidly fluctuating wave shape the deaf man knows he's "seeing" a human voice, and that's his cue to announce his presence. If he's calling a friend, the friend can signal to him by means of whistling, twirling the dial of the telephone, tapping on the mouthpiece, humming or signalling via a buzzer and telegraph key..in short, anything that will change the waveform on the deaf man's scope. To some people, however, the oscilloscope is a bit tricky to operate, and Bell Labs plans to use a simple "blinking light" to replace it. (via Mrs. A. Benson)

Biggest Sky-SPY working even better than expected The World's largest radio-radar telescope is working far better than planned. The eight-million, five hundred thousand dollar unit is 12 miles south of Arecibo, Puerto Rico. The unit has two major parts, for you DXers who might want to copy it; A 1,000-foot-wide wire mesh reflector laid out in a bowl ringed by hills. The mesh is 18 and one half acres in area. 500' above it, fed by a 96-foot leadwire, is a 550-ton Antenna which aims the telescope. It's uses are threefold; first, it bounces signals off other planets, and it studies the ionosphere and receives signals from beyond our solar system. The telescope has already plotted the geographical layouts of the planet Venus, has discovered new ionospheric variations. (via Columbia Univ.)

And that cleans us of news for this month. We'd like to take a minute here to remind you that the deadline for news reports is the 15th of the month for inclusion in next month's edition of Friends. Also, we'd like to point out that no news in the Newsroom section goes uncredited as to source or informant, thus insuring you its accuracy and sincerity. Any items not credited to a reporter are submitted by the News Editor.

I'd like to thank a few of our regular reporters for submitting News information that we couldn't use. In some cases, they're News Items better pinpointed in another section(s) of the bulletin, and so have been passed on to the section editors concerned.

Just what constitutes news? News is any informative sidelight to the hobby of communications, as used herein. It should be credited properly, and ideally consist of items not generally read by the vast majority of hobbyists.

We're thinking of a format change for the Newsroom. We'll have more on it later.

Gary Payne of California sent a very interesting "rebuttal"(If I may use that word, Gary)to the news item here last month of the CB Regulations. Gary, I've submitted it to the proper editorial offices for consideration. I think you had some good points therein, but tis not the purpose of the newsroom to view an individual's opinion, welcome though it may be.

Final reminder that, if you need a N.H. card, we'll be glad to swap with you.

Keep smiling. It's lots easier.

73 and GOOD NEWS!!

Doug

NASA SHORTWAVE CENTER

SWBC

Compiled at NASA Hdq

Times GMT

Deadline June 20th

It is always nice to be able to start/begin a section with something of value and/or of worthiness. I do so this month by listing names of all who were good enough to send reports, and without whose cooperation and support, this section would be impossible.

August Balbi, California	Jim Gallucci, Oregon	Dick Jenneman, Wisconsin
Sam Rowell, Washington	Phil Zucchi, Mass'ettes	Tim Davisson, Ohio
Bill Sparks, California	Frank Peters, Illinois	Joe Mauriello, New Jersey
Don Jensen, Wisconsin	Bob Zobot, Virginia	Ambrose Maxim, Mass'ettes
Ray Fronczak, Missouri	Joe Rudolph, New Jersey	Lou Hart, Ohio
Ted Templeton, Penna.	Ron Luyster, Ohio	Bill Stevens, Penna.
Gary Fredricks, Oregon	Ray Fansler, Illinois	Joe Fela, New Jersey
Alan Johnson, Mass'ettes	Peter Drew, Australia	Gerry Dexter, Wisconsin
SCDXers	BDXC	CDXC
	VOFK	NNRC
		FEBE
		RPMC
		DXWW

LATE NEWS-TIPS-LOGGINGS.....LATE NEWS-TIPS-LOGGINGS.....LATE NEWS-TIPS-LOGGINGS

After rechecking/double checking, I find RBI in Arabic 0530-0630 on 15270//11765, Deutsche Welle has Eng and Hausa to Africa 0605-0650 on 15275, Saudi Arabia seems to be on 11870 severly QRM'd 0545. (Rowell)

The freqs of Radio Yerevan service to NA on Saturdays and Sundays 1930-2030 are: 9540, 9740, 11690 and 11755. Apparently relayed by Petropavlosk on 9540, Komson-olsk on 9740 and Vladivostok 11755. Xmtr for 11690 not known, but could be Eskent. Radio Iran now seems settled on 11730 for European Service at 1730-2130 (English at 2000-2030) but QRM'd by Radio Nederland at times. (Rowell)

Radio Moscow at 0315 on 15180 hrd w/Jewish religious program via Vilnius, Lithuania. This is first time I've ever hrd such on Radio Moscow. 22/V. (Rowell)

VIEWPOINTS

OBSERVATIONS

DWDXB late, seems going to pot. Same w/DW Eng progs to USA. Also, think RAI wrong in deleting 9575, best freq. (Balbi)

Every time I hear Castro, reminds me alot of Hitler and how he used to rant/rave via the airwaves in 1937-'38-'39. (Rowell)

Seems to me there is alot of money being wasted for the work of the ITU. Not saying the OM dont earn/work for what they get, but if stations dont abide by rules and/or suggestions made via the organization (I should say union!)...then why continue its operation. Even if stricter laws/rules wer made and the ITU had power to enforce them, whats to guarantee stations in all lands could obey? (Eddings)

Glad to see so mny reporters to the NASA SWBC sections. Something for the novice as well as oldtimer. Is like a club should be and NASA is just that! (Balbi)

Re question by Tim Davisson abt Barbados, the spec progs are arranged by Barbados Rediffusion Service Ltd. (Rediffusion, in case some dont know, is wired broadcasting) They use 5kw xmtr of Cable and Wireless, West Indies Ltd. on 5040, 7547 and 11015. Progs are sked to provide service to the "out" islands in the Windwards during the racetrack meetings and cricket matches. I had the pleasure of visting their studios in Bridgetown, Sept. '63. (Jensen)

Anyone note the continuous carrier on freq of 15225? Sounds similar to a Loran signal to me. It QRMs Radio Kabul at 1800-1930 and all else day/nite. I note AFRTS moved off this freq after being on it for 2 or more years. Any ECNA members hear it or have info, let me know, via Hdq. (Rowell)

Can anyone ID the station hrd on 15045 in Sp at 0445. Was repeating talk hrd earlier on WRUL. ? (Rowell)

QRM * INTERFERENCE * QRM

We here deal with QRM defined specifically as interference of one station with another.

A. The simplest is broadcast station interference. With the congested SW bands of today, it commonly happens that two or more radio stations are operating into the same or nearby target areas on the same or adjacent freqs, with the result that some of the unwanted station(s) can be hrd on top of desired station. SW stations are allocated channels 5kcs apart, though necessarily a number occupy each channel, usually in different parts of the world. With a radio in reasonably good condx, two stations of equal strength, situated 10kcs apart, can be separated without interference; If the wanted station is considerably stronger than the unwanted one, 5kcs separation will result in fairly good reception, while if the situation is reversed, 15 or even 20kcs separation might be necessary. Stations of equal strength operating only 5kcs apart will result in mutual interference. If a radio is out of alignment, or if it has been in above average temperatures for a long period of time, it will be found to be more difficult to separate between wanted and unwanted stations.

B. A heterodyne is a whistle-like sound produced by two stations operating very close together in frequency and is hrd commonly all over the world, on SW bands. It is usually only prominent when the interfering station is considerably weaker than the station interfered with, and the modulation is thus too weak to be hrd. There must be a difference in operating freqs for a heterodyne to be produced, and the freq of the whistle(audio freq) is equal to the difference between the two station freqs. For example; If you were listening to a station on 11850kcs, then the interfering stations on either 11845 or 11855 would produce a heterodyne whistle of 5kcs, which is a fairly high pitch. Note that the whistle would sound the same whether it was caused by a station higher or lower in freq. However, by carefully tuning towards or away from the offending/interfering station, it is simple to tell on which side it is. By slightly de-tuning away, it is possible to minimize the whistle and still listen to the wanted station.

C. Deliberate jamming is one of the most common types of interference encountered. Originating in the Communist countries, it is accomplished by using a fairly orthodox xnter, but is arranged so that its freq can be varied to jam any part of a band at will, and instead of carrying a program, it carries a noise much similar to a buzz saw. This noise is so distinctive that it is easily recognized and it is quite effective in ruining reception at and near its operating freq. Oft times the buzzing noise is interrupted periodically with an identification signal in morse code. One of the most objectionable features of this deliberate jamming is that it occupies so much of the band, especially when several different jammers are tuned to one area in general, causing reception of many stations to be ruined....even some not in the jam target area.

D. The other general type of interference falls under the heading of morse, though it also includes high-speed teletype and teleprinter stations, and any station communicating in a type of code. These stations should not be found in bands allotted to SWBC stations, but such interference is often found/hrd. It is possible, due to close physical proximity to the offending xnters, or to a badly adjusted radio, for such interference to come from a service actually operating on another freq. To determine if it is actually caused by your rx, it is best to compare reception on another radio tuned to the same station/freq.

(de FEBC Bulletin via J.Gallucci)

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SWBC TID BITS

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The SBC's "Shortwave Merrygoround" program, aired evry Saturday at 0145GMT is popular with SWL's and DXers alike because of its tips on new stations and information/news de International broadcasters.....Mike Fletcher and Ted Templeton have been awarded the NASA "25er" certificate for QSLing twentyfive different countries of the world -SWBC.... Peter Drew/Australia sez his best recent DX is CFCX-6005. "This was at 2300, via long path and if WRTH is right, is only 75 watts, so may be my best DX ever, but judging from the signal, seems power has been upped".....August Balbi sez he hrd via Radio Japan that Sunday mail service there might be discontinued. He adds, "Sounds strange to us, we're lucky to get it weekdays. Hi!" (and do you know an increase in US postal rates is being considered!!! Ed.)



NEWS

TIPS

SKEDS

NEW GUINEA: Radio Rabaul, New Britain, VL9BR on 3385, listed in error last month as Radio Rabul, Afghanistan. Error was on part of editor, not reporter Bill Sparks. Tnx to Don Jensen and August Balbi for calling this to our attention. (Ed.)

GREENLAND: The Voice of Greenland operates two lkw SW xnters at Kook Island. One operates on 5980, the other on 3993. (SCDXers)

ICELAND: SW broadcasts ceased sometime ago due to technical difficulties. According to letter de Reykjavik. (SCDXers)

HOLLAND: Radio Nederland now using 15425 and 11730 for its NA Eng prog 2100-2150. (Fronczak)

SOUTH KOREA: VOFK, Seoul lists following sked for Eng progs; 9640, 2100-2130; 15125, 0300-0330; 9640, 0500-0530; 15125, 0630-0700; 9640, 1030-1100; 15125, 1530-1600. Sked is for seven day wk. (Per VOFK prog sked via Fredricks)(Balbi)

PERU: Rare Radio Huaraz IDing as "Esta est Radio Huaraz" and w/LA progmg hrd 0315 on 5700. 1/V. (Dexter)

NETH.ANTILLES: Bonaire relay of Radio Nederland now using 9590 (from 9690) for 0130-0220 Eng prog to NA. (Fronczak, Balbi) Also now on 15220 (from 15290) for 2000-2050 Eng to Africa prog. (Balbi)

NETH.ANTILLES: TWR, Bonaire current sked; 0230-0350 on 9540 w/Eng to NA...1100-1235 on 11855 w/Eng to NA...2130-0015 on 9605 w/Russian, German, French, Spanish and English.. 2330-0220 on 15260 w/Russian, German, French, Spanish and Portuguese. These are all religious progs except for a newscast in Eng at 0330 on 9540. (Balbi) Members should take note that there is a difference in TWR and relays de Radio Nederland. Many have reported hearing TWR when in fact they are hearing Radio Nederland relays. Lets not have another Radio Portugal and Voice of the West bit! (Ed.)

MEXICO: XEYU being hrd w/good signals on 9600 around 0245. (Templeton)

PERU: OBX4Z, Radio Luz, Lima now being hrd w/good power 0500-0600 s/off on 6115. Mny many ID's given, lots of pop mx. (Sparks)

BERLIN/GDR: RBI amcd sked as 0100-0230 on 9560//11880 to ECHA and 0345-0445 on 9770//11920 to WCNA. (Gallucci)

TAHITI: Radio Tahiti now hrd at new/earlier s/on time 0300 w/sked extended to 0800 s/off. (Balbi) Freq is 11825.

AUSTRALIA: Report mentioned last month of VLX9 unexpected appearance on 10000 was strictly a one day affair. It has been back on 9610 since. (Sparks)

ANGOLA: Radio Commercial de Angola being hrd well on 4775 at 0530 s/on. IS is about two minutes prior s/on and is four notes on a vry harsh sounding horn followed by beats on drums. (Sparks)

UAR: Radio Cairo now hrd again on 17690 2015-2145 in Hrusa to West Africa. (Rowell)

HUNGARY: Radio Budapest now back on 11910 in Hungarian 0000-0030 and in English 0030-0100 //9833. (Rowell)

NORTH VIETNAM: Hanoi currently being hrd w/following Eng nx sked: 1230 on 9760, 1300 and 1530 on 9760//9830 and 11760. No longer hrd at 1000 as in past. (Balbi)

ITALY: RAI to NA 2230-0330 on 11905//9630. Eng nx now 0100 (formerly 0030). 11nc freq seldom audible...and latter is QRM'd by VOA. Best freq was old 9575. (Balbi)

COSTA RICA: Radio Atenas now hrd regularly from around 2300 on varying freq 6201-03. Sends nice QSL folder. QTH; Radio Atenas, Atenas, Costa Rica. (SCDXers)

GREECE: According to letter de Hellenic National Broadcasting Inst., Atehs, there will be no more feriegn languages xmsns over its SW xnters. (SCDXers)

THAILAND: Latest official sked de Radio Thailand shows 7305 freq dropped in favor of 7185 for xmsn to NA at 0415-0515. (SCDXers)

MALDIVE ISLANDS: Station here hrd testing on 9650-52 around 0730 w/progs in Hindi, Tamil, Singhalese and w/western nx. Vry few annts, short whistles at intervals.

VENEZUELA: Radio Libertador on 3255 has Arabic at 0000. (WIDXA)

MAURITIUS: MBC uses 4850 daily 1300-1830. Has BBC nx 1800. (SCDXers)

POLAND: Polish Radio broadcasts in Eng to Europe 1830-1900 on 6135//7125 and 2030-2100, 5950//7145. (SCDXers)

USA: WRUL's DXing Worldwide will be holding second contest 28/VIII at 1900 on 15440//17840 and 17730. Anyone wishing to enter should write asking for special entry form.

RADIO PRAGUE MONITORS CLUB

per Peter Skala, Radio Prague DX Program Editor

The aim of the Radio Prague Monitors Club is to promote interest in DX and SWL activity everywhere. Members of the club will be awarded individual membership numbers and a club certificate, and another award will be available to them for their DX achievements on the bands. The rules are as follows:

1. Applicants for membership should send in a certain number of reports on the reception of Radio Prague signals at their location. Listeners in Europe must send in 15 in the course of a year, and SWLs from other continents 7 reports.
2. Each report must be from a different day, must be written on a separate piece of paper, and must bear a serial number. Every applicant should number his successive reports clearly, starting with the figure "one". The reports should be sent to Radio Prague not later than five days after date of reception.
3. On each report should be written the date and time of reception, frequency or wavelength, the quality of reception either in words or SINPO code, and a short summary of the program monitored.
4. Formal application for club membership should be sent with the 15th or 7th report as the case may be, listing from your log the data of your reports.
5. The holder of the club certificate can renew his membership every year. Conditions for renewing are identical to those for acquiring new membership. Endorsement stickers will be issued every year and a space will be provided for attachment to certificate.
6. Those listeners who are in contact with Radio Prague SW propagation department as active and regular members will become members of the club automatically.
7. The Radio Prague DX Diploma will be available to members of the club who can prove they have heard and verified professional broadcasting stations from at least 15 world zones as defined in the ITU Radio Regulations issued in Geneva -1959.
8. Actual QSLs need not be submitted, but written application for the diploma must be accompanied by a complete list of data from selected verifications. This list should contain country of location, ITU zone number, date and time of reception, and the frequency or wavelength. A map showing the zones will be available to members. Requests should be sent for it to Awards Committee, Radio Prague Monitors Club, Czechoslovakia. All official verifications of reception after January 1, 1963 are valid. Radio Prague, in cases of doubt, reserves the right to request certain verifications be sent for purpose of checking, or for random checking reasons.
9. The Awards Committee of Radio Prague has the final decision on the granting of both membership certificates and DX Diplomas.

Note: Certificates and diplomas will be ready for sending out by the second half of 1965, but please send in your applications and reports earlier so that they can be considered and documents prepared for you. Write to Radio Prague Monitors Club, Prague, Czechoslovakia for any added info/data needed.

(As a side note to the above, and for those who may not be aware of it...the U.S. Post-office Department will no longer withhold (for any reason) mail considered to be of propaganda nature, addressed to U.S. citizens. This action per recent U.S. Supreme Court ruling. (Heretofore the PostOffice Dept. would many times notify citizens of mail addressed to them from certain countries, and asked if they wished it delivered. Now, you get it whether you want it or not....but you can still file it in its proper place. Ed.)

POPULARITY POLL... SWEDISH STYLE

Scandinavian DXers recently took part in a poll as to the most popular radio station broadcasting regular programs in Swedish; 328 of these DXers voted, results came out as follows; First place- HCJB, Ecuador, 2nd place- Radio Prague, 3rd place- Radio Japan, and others in order...Polish Radio, Radio Roma, RBI, Radio Figa, Radio Finland, Radio Moscow, Radio Tallinn, Vatican Radio and Radio Brazzaville. This poll/contest was sponsored by the DX-Alliansen, Swedish counterpart of our own ANARC. (in part de AN#15)

AROUND THE WORLD OF SWBCers

La Voz Dominicana now on 9735 from 1055 to 1250. An English program is sked 0200-0215 all other are in Spanish. Reports should be sent to: Ca. Dr. Tejada Florentino 8, Santo Domingo, Dominican Republic. Return postage is necessary.

Radio Canada's International Service from Montreal beams programs to the Caribbean and L.A. 2358 till 0145. Has English 0000-0030. On 15190//11760 and 9625.

Although no English announcements are made it is very easy to ID the Belgium xtr at Brussels on 9745. Daily at 2000, a YL gives the opening annmt in French as "Ici Bruxelles Radiodiffusion Belge". A man then in Flemish "Hier is Brussel the Belgische Radio". Broadcast consists of music, news and talks. QSL may be obtained by reporting to: Director of Overseas Service, R.T.B.B. R.T.18, Place Eugene Flagey, Brussels 5.

The Lebanese government has been allotted a new freq for its international service. Radio Beirut now can be hrd on African beam 1930 to 2130 on 11810. A broadcast to South America is aired 0000-0200 on 11935. Programs in Arabic, English and Spanish are directed to North America 0230-0500 on 9600. Reports are welcomed and will be verified promptly.

Radio Barquimeto bulletin states YVMS on 4850, YVMO on 4950 and YVNK on 4900 will increase power to 10kw. These stations are all privately owned and are located in Barquimeto, Venezuela. Requests for verification will be confirmed by letter and should be addressed to the individual station.

Radio Maroc, Tangiers operating with 50kw on 11735, signs on in English at 2145 daily but goes into Arabic program that is hrd until 2200. Pop U.S. music is hrd then until 2230 followed by program of Fr. news, musci and talks until s/off 2300.

Many Brazilian stations now being hrd 2300-0300 daily. Among those are Radio Brazil Central 4995, 11815; Radio National Brazil 11720; and the Ministry of Education station at Rio de Janiero on 11950.

"This is Austria Calling" broadcasting to North America on 9770//6180 and to South America on 11905 can be hrd 0130-0500. Program is mainly Viennese music.

The Voice of Turkey station TAU, using 100kw on 15160 now has English program 2300 nightly. Announcers are YLs and programs consist of news, talks and music. QSL is by card from the Ministry of Tourism and Information, Ankara, Turkey.

According to WRTH Bulletin, re the new station in Malawi, it notes the sw xtr on 5990 daily 0500-1000. Programs are broadcast in various African dialects. Only Eng heard is newscast at 0930.

Radio El Espector, Montevideo, Uruguay... although listed as on 11835 seems to be using 11825, possibly to avoid QRM from other stations broadcasting from the Caribbean area. This station is part of network managed by Difusoras del Uruguay, S.A. Soriano 1287, Montevideo.

Radio Nacional de Espana, Tenerife sked 1400-1600 on 9660, 0000-0300 on 11800. The output on former is 100kw, on latter is 50kw.

Until Sept. 4, Radio Japan will continue to use 15135 and 11780 for its NA service 0100-0200 Daily. Its General Service of half hour xnsns in English/Japanese can be hrd 0100-0130 on 11940//15105 and 15245 and at 0200-0230 on 15105//15310 and 15425. An early morning xnsn of Eng/Jap also can be hrd 1100- on 9505//15195 and 15310.

The xtr of Radio Bechuanaland located at Gaberones now. It is still operating on 3356 1530-1700 Monday thru Fridays. BBC news relay at 1600 and local English news at 1630.

Hoping to improve its signals to NA, Radio Norway will use four xtrs for this service. Using two or three directional beams, the station will broadcast on the following freqs until August: 15175, 11850, 9610, 6130 daily 1500 to 1630. From 0300 till 0430 it will be hrd on 11850, 9610 and 6185. All xtrs are located in Oslo. Another xtr, at Tronso on 15370 most of day.

Say you saw it in FRENDX!!!

SURVEY ON RADIO JAPAN'S PROGRAMS

*Please mail this questionnaire so that it will reach us by end of August. A souvenir will be sent to all who cooperate. Mail to: Radio Japan-NHK, Tokyo, Japan.

Name _____

Address _____

1. What time of the day is most convenient for you to listen to Radio Japan? Please give in your local time, taking into consideration the time you listen to your radio or view TV of your own country.

Language in which you listen to Radio _____

Japan: _____

From _____ to _____ a.m. p.m.

2. Of the following broadcasts from Radio Japan, please number the ones in order of your preference.

- () News () Commentary () Sports () Information programs introducing Japan
- () Music () Entertainment

3. How often do you listen to Radio Japan? Please circle the applicable.

- 1. Almost daily 2. Fixed day of the week and time 3. From time to time

4. What motivated you to listen to Radio Japan? Please circle the applicable.

- 1. I learned of Radio Japan in publications such as newspapers/magazines.
- 2. I happened to tune in while dialing my receiver
- 3. I learned of it through my friends and/or fellow club members.
- 4. I listened because I am interested in Japan and other Asian countries.
- 5. I began to take interest in Radio Japan during Tokyo Olympics

5. Please give the names of foreign shortwave services to which you often listen to besides Radio Japan. Give brief reasons.

- 1. _____ 2. _____ 3. _____

6. Please give the names of newspapers you read regularly

- 1. _____ 2. _____

7. Please state freely what you expect the most from Radio Japan at present. If you have any ideas about programs, please also state them. (Prizes will be sent those who submit best ideas!)

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MEMBER OF THE NORTH AMERICAN SHORTWAVE ASSOCIATION

Three new QSLs since last month; RNE, Canary Islands sent letter after nine weeks. Radio South Africa a card for their 4945 outlet after ten weeks and Radio Baghdad, 6095, a card after eleven weeks. Pay Fansler, Illinois.

Things rather slow here, but one prize, letter verie, in from Radio Gambia, and more recntly also a card, confirming report sent then for reception of 4820 xmsn on eve of their Independence Day. They verified on the basis of a tape recording I sent. Incidentally, they returned the tape for my files. Don Jensen, Wisconsin.

Latest QSLs here are from Radio Luxembourg, a card for 15350 rnsn came in 26 days and containe all data except signature. And a card from CKZU/CBC Vancouver on 6160 with complete data. Frank Peters, Illinois. Card from Radio Finland, OIX4, 15185 in one month with all info. Letter from Radio Tirana, 7090, with all info came in one month. And finally, a card from TWR-Monaco w/ all info except freq. came after one and a half months. Phil Zacchi, Mass. Most recent QSLs rcvd here are from Radio Bidapest and SBC. Tim Davisson, Ohio. New cards from Radio Canada and SBC, they are modern art (ugh!) By the way, does U.N. Radio have a special QSL, and does Radio Ghana. QSL? Dick Jerneman, Wisconsin. Just rcvd new QSL folder from Radio Wewak. It contains quite a bit of data, includes that re all five stations owned/operated by the Australian Administration in Papua & New Guinea. Would assume this folder used to QSL any reports to any of the five! The Wewak freq is 3335. Sent report in Dec '64, rcvd QSL in 5 months. Would also mention that the lengthy info in recent Friendx re Radio Portugal QSL formula has paid off for me. After three years of trying, I finally rcvd a card from them. All I can say is, that it is about time they let the DX world in on the special requirements. As to the remarks of Tim Davisson in re to Mauritania, I would suggest he send report in French. This is as they require (reports in French or Arabic!) And re Iran, also Pakistan, they tend to be erratic and irregular. All we can do is continue to send them reports making them as complete as possible. Bill Sparks, California.



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Several members have asked that we begin a scoreboard listing countries heard and the number QSL'd; We therefore would request all of you to submit info thereto, along with your reports each month. Scoreboard will be contained in this coulunn, set up i.e;

Number of countries heard Number of countries QSL'd Prized QSL
HIC VIC

You may inculde your totals along with reports, or just send them along on postacrd. We would like to see plenty of response on this; All SWBCers are asked to cooperate. Keep in mind that this will be for SWBC countries only and should not include utility.

The CBC International Service now verifies with a new card showing five vertical stripes in two shades of red and picturing ships, silos, etc. (Johnson)

Recent additions to my QSL collection are cards from Radio Moscow, Radio Denmark and BBC. They are not rare, but they do give me incentive. (A.Johnson)They came in 5-7 wks. The following info appears on the QSL folder rcvd from Radio Wewak, New Guinea; Wewak: Languages Pidgin and English, serves the people of the Sepik district. Freq is 3335, power 10,000 watts, broadcasting 415pm to 1030pm daily(local time). Address is: Radio Wewak-VL9CD, P.O.Box 65, Wewak, New Guinea....Rabaul: Languages Tolai, Pidgin and English servespeople in Gazelle Peninsula, New Britain. Freq is 3385, power 1000 watts, broadcasting 4pm to 11pm daily(local time).QTH: Radio Rabaul-VL9BR, New Britain, New Guinea...Kerema: Languages Toaripi, Orokolo, Polese Motu and English, serves the people of the Gulf district of Paupa. Freq is 3245, power 250 watts, broadcasting 520 pm to 9pm Daily(local time).QTH is: Radio Kerema-VL8BK, Gulf District, Paupa...Daru: Languages Polese Motu and English serves people of west Paupa. Freq is 3304, power 250 watts broadcasting 6pm to 9pm daliy(local time). QTH is; Radio Daru-VL8BD, Western District, Paupa...Goroka: Languages Gahuku, Kuman and Pidgin serves people of the Eastern Highlands. Freq is 2410 power 250 watts boradcasting 6pm to 9pm daily(local tine). QTH is; Radio Goroka-VL9CG, Eastern Highlands, New Guinea. (Txn Bill Sparks!) Note: Times listed/given are as on QSL and are assumed to be local times rather than GMT. Ed.

UTILITIES

UTILITIES

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This months column setup per individual reports as rcvd; Listed in order of frequency.

Joe Rudolph

- 20750 1843 PUH, Rio de Janerio w/SSB VM in Eng/Port/Fr and Sp. (Joe would like to start a utility Round-Robin; Anyone interested should write him- 40 Arthur Place, Red Bank, N.J.)
- 19425A 1946 CWO, Cerrito, Uruguay w/CQ tape on cw.
- 17075 1358 GYR, Rinella, Malta. British Navy sta. w/V. tape cw.
- 16200A Stockholm, Sweden 1827 w/SSB VM in Eng.
- 16190A Oahu, Hawaii 1820 w/SSB VM in Eng.
- 15940A 1417 Unidentified w/SSB xmsn. Sounded like BBC nx in foreign lang.
- 14720A 1535 Rome, Italy w/SSB VM in Eng.
- 13750A 0055 USA/GoldenWest Network w/baseball game relay..to WCNA de St.Louis.
- 8790A 0345 Athens, Greece w/AM VM in Eng/Fr/Greek.
- 8160A WAR, Washington D.C. w/SSB test. 0037.
- 2182 VHB, Kingston, Jamaica w/general call. 0122
- 2182 0316 Bermuda Radio answering VRT.
- 2182 0123 USCG, St.Petersburg, Fla w/bulletin to ship on diff freq.

Frank Peters

- 19305 1830 Papeete, Tahiti w/ID tape es calling Oakland, Calif.
- 11655 1925 MLU, Gibraltar on cw w/wx.
- 7950 0730 Cottonou, Dahomey w/test tape in French.

Bob Zobot

- 8828 0010 WSY, FAA station w/terminal wx.
- 2966 0105 KIL8 calling Nassau, Bahamas
- 2483A 0400 NMN, Portsmouth calling Aircraft carrier.
- 2182 0200 VCC, Quebec, Canada w/ship traffic.

Phil Zucchi

- 10750A 2120 Tel Aviv w/test tape for State of Israel.
- 10350A 2120 Caracas, Venezuela w/Government SSB test.
- 10250A 2035 Rome, Italy w/SSB test for rx adjustment purposes.
- 9200A 2130 South Africa, Int.Radio-Telephone Service of ZUD.

Joe Mauriello

- 8223 a1630M/V Anna C calling WOU 4372 0735 Coal King calling WGK
- 4072 1630 Craig M calling WGK 2406 0630 Black Hawk calling WOU
- 2406 0635 SS African Pilot wrkg WEH 2198 1700 USCG Outpost calling WOX
- 2198 1600 TexaProvidence calling WOX 2198 0750 Tug Spartan calling WOX
- 2198 0710 SS Guardian working WOX 2198 1700 SS Christalbo wrkg WOX
- 2166 1820 SS Superflame wrkg WEH 2166 SS Maryland calling WEH
- 2166 0730 Tug Roecon calling WEH 2142 Tanker Henry working WGD 0710

VERIFICATION NOTES: MLU, Gibraltar sent card and letter in 9 days; USNAVCOM Station, Londonderry-N.Ireland sent card.(Peters) ZNX43, Cable and Wireless, Barbados veried after two months, gave all info except exact freq; SZF12, Hellenic Telecommunications Organization veried in one month.(Zucchi) Xmsn of Companhia Portuguesa Radio Marconi, 7947.5kcs was confirmed by card (a prepared one!). This station, one of a number owned by this company, is located at Funchal, Maderia.(Jensen)

UTE DISS ES DATS: Radio Communications DX Club, Kyrkvagen 6A, Kopparberg, Sweden will soon have a guide booklet available on PTP stations in over 150 countries. It will also contain hints/tips on reporting and have report forms in French, Spanish.(BDXC) WWV and WWVH now have new QSL cards!.....If some girls weren't so overexposed, we OM wouldn't notice how underdeveloped some of them are!(Jenneman) FTK is a beacon located at Fort Knox, Kentucky (home of that nice yellow stuff!). It is frequently heard in DX season, has power of 25watts. Verification is by letter; Reports go to: Army Aviation Officer, U.S.Army Armour Center, Fort Knox, Kentucky.(CDXC) It is thought that all American Cable and Wireless, and Radio Corporation of America facilities were taken over by Radio Corporation of Puerto Rico as the calls used are similar.(CDXC)

Thats all from SW Center this month. Enx to all reporters! Till next time 73, *Bill*

LOGGINGS



REPORTS

ALL GMT

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0000. 11910 Radio Budapest w/Eng 0030. //9833. (Rowell)
 11920 Radio Berlin International-GDR w/German. (Rowell)
 9605 TWR-Bonaire 0045 w/Eng request prog 12/V. (Balbi)
 9770 Radio Austria //6155 to NA also // 11905. (Gallucci)
 11740 Vatican Radio s/on*anned as //9640 and 7250. At s/off anncd 5985, 7250 and 9645. ??? (Gallucci) *0050
 9700 Radio Sofia w/Eng news-commentary. (Zucchi)
 11800 RNE, Canary Islands s/on w/IS, mx. All Spanish. (Fansler)
 14520 Radio Pyongyang, North Korea s/on in Eng. Poor modulation. (Fansler)
 6025 Radio Portugal, Lisbon w/Port nx and mx. (Drew)
 6190 VOA Greenville w/Spanish prog. (Drew)
 15060 Radio Peking in Eng. (Fredricks)
 6110 Escuelas Radiofonicas, Venezuela w/prog of mood mx.0030 (Dexter)
- 0100 9557 Radio Amman, Jordan s/on w/Eng nx. (Peters)(Fansler)
 5961.5 La voz de Bogata, Columbia w/songs in Eng. (Peters)
 15150 VOA Okinawa in Eng. s/off 0130. (Fredricks)
 9770 Radio Austria, Vienna in Eng after s/on in several langs (Fansler)
 9575 Radio Roma, Italy w/IS and s/on 0115. (Fansler)
 9555 YSS, El Salvador w/Spanish, nx. (Fansler)
 6100 CE610, Radio Calama w/ID in Sp at 0130. (Maxin)
 6125 CP15, Radio El Condor, La Paz, Bolivia w/ID. (Maxin)
 11755 HCJB w/Call of the Andes prog. 0130. (Zabot)
 9535 SBC, Switzerland w/nx and prog for Swiss abroad. 0130. (Zabot)
 9833 Radio Budapest w/Eng nx at 0130. (Zucchi)
 9545 Deutsche Welle, Cologne, w/Eng nx. 0130. (Zucchi)
 11845 ORTF, Paris w/prog to LA in Spanish. 0140. (Zucchi)
 9590 TWR, Bonaire s/on 0130 w/Eng nx to NA. Radio Nederland relay. (Balbi)6/7
 9630 RAI, Italy w/Eng nx. (Balbi)
 9710 Radio Lebanon, Beirut 0130-0400 to NA in Eng-Fr-Arabic-Sp. (Rowell)18/V
- 0200 11805 Radio Sweden 0230-0345 w/Eng to WCMA 0315. (Rowell)
 11840 Radio Portugal 0200-0245 w/Sp to LA. (Rowell)
 11745 Radio Cairo, UAR w/Arabic prog. (Rowell)
 11800 RNE, Canary Islands w/Sp progng till 0300 s/off. (Rowell)
 9710 Beirut, Lebanon w/Eng nx at 0245. (Balbi)(Stevens)
 15345 BCC, Taiwan to NA. s/on w/Eng nx 0255. //11860. (Balbi)
 11710 KGEI now here from 9590. s/on 0230 w/prog to SA in Sp & Eng. (Balbi)
 11790 AFRTS w/nx in Eng. (Zabot)
 15225 VOA Tangier w/Africa Today prog. 0235. (Zabot)
 9715 AFRTS, New York //6135. These freqs being used to carry night baseball games, etc., until further notice. (Stevens)
 6130 RNE, Madrid w/Eng ID 0245. (Maxin)
 6025 Radio Portugal w/Eng. Hrd till 0215. (Fansler)
 6020 VOA Tangier s/on in Eng 0230. (Fansler)
 15280 Radio New Zealand in Eng w/pop songs, ads, races. //15110. (Fansler)
 9660 Radio Liberty, Germany w/talk in Ukranian. (Drew) //9750.
 15060 Radio Peking with news in Spanish. 0205. (Fredricks)
 15105 Radio Japan w/nx and current topics in Eng. 0210. (Fredricks)
 15220 Radio Australia w/perg about Australia. 0215. (Fredricks)
 3340 Radio Tulcan, Ecuador w/LA programming. 0245. (Dexter)

- C200 11800 RNE, Canary Islands w/Sp mx. s/off 0255 after Sp ID. (Sparks)
9485 4VC, Radio Commerce, Haiti w/Fr nx. (Sparks)
9590 TWR, Bonaire, Hilversum relay s/off 0230. (Rudolph) 7/V
- 0300 9680 Radio Lebanon, Beirut s/off w/anthen. (Rudolph)
11825 Radio Tahiti w/pop mx hrd in advance of reg s/on time of 0330. (Sparks)
11860 BCC "Voice of Free China" Taiwan, w/Eng prog 0250-0350. (Sparks)
9645 TIFC, Costa Rica. 0325 w/religious prog-mx. (Fredricks)
14520 Radio Pyongyang, N. Korea w/Eng nx, commentary, nx. (Fredricks)
9590 Radio Bucharest w/Eng nx 0310, nx, then ARO nx 0320. (Rudolph)(Zucchi)
7160* Radio Mogadiscio, Somali Rep. 0330-0345 w/Arabic; then Eng nx until 0355 followed by nx till 0400, then into Somali. (Jensen)(Dexter)(Peters)(Balbi)
15425 Radio Australia, ABC prog in Eng. till 0345. (Fansler) It's Perth Ray. Ed.
9833 Radio Budapest in Eng w/Music for the Family prog. 0330. (Fansler)
9745 HCJB, Quito w/Party Line in Eng. (Zabot)
15220 ABC, Melbourne w/Eng nx. (Zucchi)
9540 TWR, Bonaire to NA in Eng. s/off 0350. (Balbi) 12/V
11805 Radio Sweden to WCNA. Eng nx 0315. s/off 0345. (Balbi)
15125* VOFK, South Korea Eng nx. Sp at 0330. (Balbi)
11880 RBI, East Berlin/GDR in German 0315. (Balbi)
11925 RBI has Eng nx at 0345. (Balbi)
11850 Radio Norway s/on in Norwegian. // 9610. (Rowell)
15410 AFRTS, Los Angeles w/baseball game. (Rowell)
11920 Radio Berlin Int //11880 in Ger to ECNA 0320 16/V, but on 11930 //9770 18/V at 0345 in Eng to ECNA. (Rowell)
- 0400 9655 SBC, Switzerland in Eng to WCNA 0435-0515 //9535. (Rowell)
15160 Radio Ankara, Turkey //15195 in Turkish. s/off 0700. (Rowell)
11850 Radio Norway in Norse to NA and No. Atlantic. (Rowell)
9590 Radio Nederland relay via Bonaire w/Sp to LA is repeat of 0030-0120 (Rowe)
9920 BBC, London w/Arabic 0435. Listed as 9915. (Rowell)
9770 RBI, Berlin/GDR w/Eng //11920 0445 is repeat of 0345 prog. (Fallucci)
9525 Radio Nederland w/Eng prog about Holland. (Zabot)
9500 Radio Moscow 0410 w/commentary re Vietnam isuation. (Zabot)
9615 RNE, Madrid 0425 w/dance mx. (Zabot)
9545 Radio South Africa, Springbok in Eng w/pop songs and ads. (Fansler)
9690 Radio Nederland 0420-0450 in Spanish? (Drew)
9650 Radio Berlin International sign on in Eng to NA 0445. (Drew)
11710 Deutsche Welle s/on in Arabic 0425. (Drew)
4780 Radio Atahualpa, Ecuador QRTs at 0430. (Dexter)
5853 La voz de Minero, Bolivia w/LA progng. s/off 0402. (Dexter)
4855 Radio Emisora Mundo, Colombia here until 0500 s/off at which time Enugu, Nigeria is then hrd. (Peters)
4940 Radio Nacional del Ecuador w/pop mx until s/off 0500. (Sparks)
9765 RBI now here w/Eng to WCNA 0445. (Sparks)
- 0500 4775 Radio Commercial de Angola w/0530 s/on and pop mx. (Sparks)
6115 Radio Luz, OBX4Z, Lima, Peru w/pop mx and mny IDs. s/off 0600 (Sparks)
21540 Radio Australia w/Pacific Is xmsn hrd good at 0530. (Sparks)
7090 Radio Tirana, Albania w/news in Russian? ID "Govorit Tirana" (Peters)
6115 UNidentified station in Sp. ID given as Radio Mil. Asking for reports to be sent to an address in Lima, Peru. (Peters)
11710 Radio Australia s/on w/Fr. //15180-15220-17820 s/off is 0630. (Balbi)
9765 RBI w/Eng nx, then into Ger 0530. (Balbi)
9690 LRA, Argentina w/Eng nx, then into Sp 0510. (Fansler)
6195 Radio Burundi weakly hrd under BBC. 9/V (Fansler)
6115 Radio Luz, Peru w/LA and US standards(nx). Often uses song "Snowfall" fo background during annts. (Dexter)
4775 Radio Commercial de Angola w/pop mx 0535. (Dexter)
11845 ORTF, Paris has Eng nx 0515-0530. (Rowell)
- 0600 15125 VOFK, Seoul in Eng 0630, in Fr 0700. (Rowell)
5960 Radio Senegal w/variety of mx, annts in Fr. (Rowell)

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- 0600 6080 Radio New Zealand w/Eng to Pacific Islands. //9540. (Rowell)
 15205 Deutsche Welle w/Ger to Australia, New Zealand and S.E.Asia. // 11795, 9735. 0645/0945. (Rowell)
 9525 VOA Greenville w/Spanish 0630. (Drew)
 3366 Ghana BS w/Eng nx. //4915. (Balbi)
 6095 Radio South Africa w/Eng nx. (Balbi)
 6015 Radio South Africa w/Eng commercials. (Balbi)
 6090 Kaduna, Nigeria in lang after Eng nx 0530. (Balbi)
 15150 YDC, Indonesia s/on in native lang. s/off 0800. (Balbi)
 15160 Ankara, Turkey in lang. //15195. (Balbi)
 15445 Brazzaville, Congo w/Eng nx 0615. //11725, 9730. (Balbi)
 6160 Algeria in Arabic at 0630. (Peters)
 15430 FEBC, Manila now hrd here (Sundays) w/Eng prog. //15300. (Sparks)
 0700 5975 Dakar, Senegal s/on in French. "Chaîne Nac. Ser." (Peters)
 15120 Polish Radio w/Eng nx 0730 (also 0830) //11840. (Balbi)
 15230 VLHL5, Australia ABC w/nx and nx (Hart) Hrd irr. (Balbi)
 15245 ORTF, Paris s/on w/Fr nx. (Balbi)(Hart)
 15240 RBI in Eng. seldom audible. (Balbi)
 9606* VOA Liberia w/Eng nx //11740, 7265, 6075, 6035. (Balbi)(Drew)
 4965 HJAE, Radio Santa Fe, Colombia w/Sp nx and annts. (Drew)
 9560 Radio Nederland s/on in Dutch to Australia 0730. (Rowell)
 9765 BBC, London w/European Ser. in Portuguese 0705. (Rowell)
 15275 Deutsche Welle in French to Africa 0715. (Rowell)
 18195* Radio Pyongyang, N.Korea in native 0715. 9/V (Rowell)
 0800 6025 Radio Nederland "Happy Station" w/nx, Eng. (on long path!)(Drew)
 5990 Radio Havana w/Castro speech //6060, 6135. (Drew)
 17835 Radio Free Europe //15145 w/nx and ID in many langs 0830 (Drew)
 11845 VOA Honolulu w/ARO prog 0845. (Drew)
 15135 Radio Japan to Europe //17875 w/Eng nx. (Balbi)
 15275 Deutsche Welle in Eng. Irr hrd. (Balbi)
 15045 Hanoi, N.Vietnam in lang. Seldom hrd. (Balbi)
 15245 ABC, Perth, Australia w/soccer game. (Peters)
 0900 6080 ZL7, New Zealand s/on in Eng //ZL2-9540. (Balbi)
 9685 BCC Taiwan in lang //7130, 6095. (Balbi)
 3995 VQ03, Solomon Islands hrd under QRN 0930-1000. 9/V (Fansler)
 1000 7800* Pyongyang, N.Korea w/Eng //9752. (Balbi)
 9640 VOFK, S.Korea w/Eng 1030-1100. (Fredricks)
 11915 HCJB, Ecuador w/religious prog 1045. (Drew)
 1100 11835 4VEH, Haiti w/religious prog-nx. (Zabot)
 1200 9650 Radio Peking w/Eng nx //15060 (Balbi)
 9760 Hanoi, North Vietnam w/Eng nx (Balbi)
 11855 TWR, Bonaire w/Eng to NA. (Balbi)(Zabot)
 1300 11760 Hanoi, North Vietnam w/Eng nx //9830, 9760. (Balbi)
 9725 Far East Serv. BBC, Malaya w/Eng nx //15435. (Balbi)
 9505 FEBC, Manila w/Eng nx 1330 to India. (Balbi)
 15305 SBC, Swiss SW Ser. w/native nx 1340. (Balbi)
 5035 Radio Malaysia, Sarawak w/Eng prog till 1400 then into native lang.
 (Sparks) This has also been reported as being Singapore. Which is? Ed.
 1400 15185 Radio Finland w/nx, time check/news in Finnish 1430. (Luyster)
 15225 AIR, Delhi in Eng to S.E.Asia 1330-1500 sked //11810 but not hrd on
 latter freq. Nx at 1455. (Luyster)
 15440 WRUL, New York w/Eng progng. (Drew)
 15195 Radio Sweden in Eng to NA. (Drew)
 9856 Radio Peking w/Eng nx //11860. (Balbi)
 9725 FESBBC Malaya w/Eng nx // 11750 (Balbi)
 17910 Radio Ghana w/Eng nx. (Balbi)
 1500 9720 BCC Taiwan s/on 1530 w/Eng nx // 9685, 7130 (Balbi)
 9760 Hanoi, N.Vietnam w/Eng nx 1530 //9830, 11760 (Balbi)
 15125 VOFK, Seoul, HLK41, 1530 Eng nx. Replaces 11925. (Balbi)

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- 1500 15175 Radio Norway w/nx in Eng. Is anncd as service to N.Atlantic, the Americas East Africa and Europe. (Luyster)(Zucchi)
 15240 BBC(FBS) Singapore in Eng. Hrd 1500-1545. (Fansler)
 15190 Radio Canada CBC w/nx and nx 1535. (Zabot)
 15455A Radio Moscow w/African service in Eng. s/off 1600. (Fredricks)
 11760 Hanoi, N.Vietnam has Eng 1530 //9830. (Sparks)
 9720 BCC, Voice of free China, Taiwan has Eng prog 1530 // 11825,11860(Sparks)
- 1600 15460 Radio Moscow w/French prog. IDing as "Ici Moscou" (Peters)
 9856 Radio Peking w/Eng progng..Hrd 1620. (Fredricks)
- 1700 17920 UAR, Cairo w/Eng ID "Voice of free Africa" (Balbi)
 15295 Radio Clube Mozambique in Portuguese. (Rowell)
 15160 Radio Ankara, Turkey in Turkish 1715. (Rowell)
 15100A WIBS, Windward Islands in Eng w/cricket match, local nx items and pop music. (Luyster) 1700-1720.
 15150 Radio Mayak w/variety prog in Russian. Where? (Peters)
- 1800 11845 ORTF, Paris has Eng nx 1830. (Peters) //15130 (Rowell)
 17740 Radio Portugal w/Voice of the West prog to Africa (Gallucci)
 11780 Radio Japan to Mid East in Eng //9525. (Gallucci)
 11840 Radio Australia w/Listeners Malibag 15/V. (Fredricks) 1830-1845
 11740 XEMP, Mexico in Sp.1815. QRM de Vatican Radio. (Rowell)
 15165 Radio Denmark in Danish to South Africa 1830-1930. (Rowell)
 15220 Radio Nederland in Dutch to Europe and Africa 1800-1920. (Rowell)
 11730 Radio Iran s/on. (Rowell)
- 1900 11755 Radio Yerevan //9540,9740,11690 1930-2030 (Rowell) Sat & Sun
 9740 Radio Yerevan in Armenian 1930. (Fredricks) 8/V
 11915 Radio Cairo, UAR 1945-2000 w/pop tunes, Fr annts. (Luyster)
- 2000 9740 Radio Yerevan w/Eng nx 2020. (Rowell)(Balbi)(Fredricks) Sat & Sun
 11755 Radio Iran w/Eng (Rowell) //11730 (Balbi)
 11690 Radio Yerevan in Armenian until 2020 when review of progs in Eng and request for reports. (Gallucci) 9/V
 15220 Bonaire relay of Radio Nederland s/on w/Eng nx to Africa (Balbi)
 17690 Radio Cairo, UAR in Hausa 2015-2045. (Rowell)
 11855 SABS, Saudi Arabia w/chanting, native nx 2030. (Fansler)
 9625 Kol Zion, Israel w/Eng nx 2050. (Zucchi)
- 2100 11900 Lagoa, Nigeria w/local nx in Eng. (Zucchi)
 11730 Radio Nederland w/Window to Holland. 2110. (Zucchi) //15425 (Rowell)
 11885 ORU, Belgium s/on in lang 2115 (Fansler) In French & Flenish (Rowell)
 11800 Radio Ghana w/Eng till 2135. (Rowell)
 11850 Radio Norway in Norse. ID at 2115 in Eng & Norse. (Rowell)
 11855 Radio Free Europe w/European langs (Rowell)
 15185 Voice of Morocco, Tangier in Arabic 2135-2200 (Rowell)
 15410 AFRTS s/on 2130 with "Tempo", nx, nx, sports (Rowell)(Stevens)
 9620 WRUL, New York w/nx and nx 2120. (Zabot)
 7085 Saudi Arabia w/native prog (Drew)
 15160 Radio Ankara, Turkey s/on 2145 in Turk. Eng nx at 2200 (Balbi)
 11825 Tahiti in French w/ID (Balbi)
- 2200 11900 Voice of Nigeria w/final nx roundup in Eng. (Fredricks)
 11785 Deutsche Welle with NewsBean to NA in Eng 2210-2220 //15405,11785,9735. (Balbi)(Luyster)(Maxin)7225
 7225 VOA Philippines in Eng 2215, Vietnamese 2230. (Drew)
 11850 Ulan Bator, Mongolia w/Eng 2220 //9545. (Drew)
 6070 Radio Ghana, Accra in Eng to West Africa. (Zucchi)
 6050 RBI in Portuguese 2230 then into Spanish 2300. (Peters)
- 2300 11740 Vatican Radio w/Spanish to SA 2330-2345. (Rowell)
 15100 WIBS, Grenada w/local nx in Eng. (Peters)
 6005 CFCX, Montreal with nx, ads, annts. (Drew)
 17890 HCJB in Eng w/Caribbean Call 2330. (Maxin)
 11795* RAI Rome in Italian to SA 2315. (Rowell)
 11885 ORTF, Paris to LA w/Port.,Fr.,and Sp. 2315-0215. //9755. (Rowell)