

NORTH AMERICAN SHORTWAVE ASSOCIATION

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**JULY

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1965**

HEADQUARTERS-NASA

1503 FIFTH AVENUE, A2

ALTOONA, PENNA. 16602

- - - - SOMETHING TO THINK ABOUT!!! - - - -

The radio waves sent out by what may be one of the most distant known objects in the universe increased 40% in strength during the last three years. This is the first variation in radio waves from sources outside the Milky Way galaxy in which the sun and its planets, including earth, are located. In April scientists reported they had found a repeating change in radio signals from another object known as CT102. This was the basis for the claimed discovery of a "super civilization" in the far outreaches of the universe. The radio waves emitted by the object, believed one of the farthest from earth in the cosmos, called 3C273, thus far do not show any regular pattern. However, signal strength has increased 40% within 1000 days. More observations will be needed to show whether this increase will continue or decline. A decrease would mean the radio waves vary rhythmically. Both 3C273 and CT102 are known as "quasars". Besides the increase of 40% in the radio waves from 3C273, a variation in energy output of 20% has been found in the radiation from two other objects, 3C279 and 3C345. The discoveries at the Radio Astronomy Observatory, University of Michigan. The discovery means either that 3C273 is not at the edge of space...or some one and a half billion light years away (one light year being six million million miles).... or that quasars do not give out energy at the rate astronomers now think likely, in which case they would be in the galactic neighborhood of the Milky Way. (de SNL 6/65)

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WHAT TO DO ??

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In the past two months, numerous letters have been received here from several of the "Iron Curtain" countries and Cuba, written by OM asking to join NASA, Yet stating it is not possible for them to remit membership fee. Reasons for their want of joining are varied/assorted, reason for being unable to submit fee, obvious. First of all, we would have it known that NASA does not refuse membership on basis of race, color, religion or political affiliations. However, we are a non-profit organization dependent on membership fee's for club/bulletin operations/expenses. We do not have any excess funds which allow us to offer "honorary" memberships, nor that we can use for instances as case in point. The only thing we can do, as in the past, is ask for voluntary contributions for such fund...or have some member(s) act as a sponsor for those unable to pay membership fee. Thus we now do so! Any member who will care to donate to such fund or sponsor another member is requested to write hdq and enclose donation. List of donors/sponsors will be contained in Fren dx each month.... as will be names of new memberships made possible by them. "Unity and Friendship"!!

FRENCH 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 REPORTE

Monthly as written by NASA Reps. Doug Benson, Frank Peters

A young NASAer from Mass. tops the Reporte this month. Phil Zucchi of Manomet has submitted to your reps, a detailed letter outlining his views on ANARC, and offering some sincere suggestions for consideration. As is the procedure, it was forwarded to proper ANARC authorities for further action. Phil gets a tip o the topper for his FB efforts and cooperation, not just for his suggestions, but also for his offer of aid to one of the ANARC committee's.

NASA rep, Doug Benson has been commissioned by head of Freq Reccomendations Comm. chairman-Richard Woods/ACRC, to send letters to the varied SWBC stations urging their cooperation in the matter of lack of positive freq identification over the iar. This problem, though not the major facing the SW hobbyist, is nonetheless a difficult one. The letters are intended to get opinions and recations from stations now, and are not so intended to be the final solution to the problem.

ANARC Exec.Sec-Don Jensen(NASA member Board of Directors)advises that a similar column to our own "ANARC REPORTE" will be instituted by the WMRC in its "DXers Digest" and will be written by that clubs ANARC Rep-Jerry Seckel. (We hope to think that it has been or will be through our efforts herein that a deciding influence for other clubs to begin such columns will be possible!)

ASWLC Exec.Editor-C.M.Stanbury, heading the ANARC Manufacturers Liason Comm. reports limited success with initial contacts with individual companies. Needless to say this is a very tough problem, to convince mfgs that the SWL market is worth consideration." Sez Don Jensen.(And we say, we would like to see every SWL/DXer in every club, write a letter to any mfg, telling them what they would like to have in the average SW rx o as to improve pleasure of the hobby. Such letters should be sent to C.M.Stanbury, Box 218, Crystal Beach, Ont., Canada who will use them as guide/reference in his work regarding the Liason Comm.)

Richard Wood/ACRC- heading ANARC Frequency Reccomendations Comm. says excellent progress is being made. Favorable response has been rcvd from Radio Nederland, TWR, Cairo, Jordan, Bucharest, Beirut and Australia. Also Radio Sweden and the USSR Ministry of Communications are considering data submitted concerning suitable freqs for their NA xnsns which would not QRM other stations.

Want to know what ANARC is all about? Have any ideas or suggestions you want to voice? Write your NASA Reps: Doug Benson, 614 Main St., Apt.30, Laconia, New Hampshire and/or Frank Peters, 820 West 34th Street, Chicago, Illinois. Help better the hobby! .30

SUMMERTIME = FUN TIME!!

It's summer and time for having a little fun! If you find your favorite DX band to be under the weather, due to QRM perhaps, you can still keep your mind on the hobby and take part in the newest of club activities also.

To the right is a cartoon without a caption. Look at it, study it!..Now take a pen/pencil in hand and jot down some suitable captions, the funnier, the better! Only requirement is that they MUST in some way refer to radio or connected hobbies. Each month the acrtoon will appear with a caption submitted by a NASAer. Come December, the caption chosen as the best (finniest) will earn the member who submitted it, a transistor radio. All members are free to enter, so are all club officers, oditors. Get in on the fun...have a go! Send your fun-cap to club hdq today. U may be the winner!!!

WRITE A CAPTION -
WIN A TRANSISTOR RX!



AWARDS PROGRAM

The revision of NASA awards program has not been completed as yet and therefore will not be contained in this edition of Friendx as we had hoped. QRM in the form of sickness on part of BOD member Bill Strait, who is working in conjunction with hdq and our ham-band editor, Dick Little, has caused delay. Barring any additional unforeseen QRM, the complete revised program will be ready next month, appear in August edition.

COMMITTEE SET

Reception report committee is shaping up in FB manner. Several members, all of them vry able DXers in their respective fields, have consented to do a series of articles that will appear in these pages soon.

TAX CUT

OM who have been or are planning to buy new receivers are pleased to know the recent cut in excise taxes favors them. With the added savings, many will be able to buy a receiver of better class. Hdq would suggest they shop around, not be hasty. There will be many companys and dealers having sales, giving good bargains. Watch for them!

PUBLICITY?

From time to time, either/both national magazines connected with/related to hobby of DXing come out with lists of clubs. In recent edition of EI such a list appeared and added to it was the writers comments/opinions of the clubs listed. For the most part, the data in the lists was compiled from questionnaires sent the clubs, returned to the magazine hdq as per request. This was/is OK...but the added comments/opinions given by the writer of the article were, in NASA case anyway, given without his having ever seen a copy of our bulletin. No doubt he meant well, on part of the readers of the mag who never heard of the clubs or were/are members, but there are those who would take his comments/opinions as anti variuos clubs, in certain ways. NASA was particularly irked by his saying we are "supposedly" drafting a constitution. Too, we dont think his opinion regarding our bulletins "offer fair band coverage" to be taken as fact. This is his opinion only!

(cont'd next column.)

Perhaps wat he considers "fair" coverage is considered sufficient or complete by others (and certainly the majority of our members are in agreement hereto!) The bit that bugs us most is that this article was written by an OM unknown to the DX club world (though his name be the same as one of the top bowlers in the US!) It is very doubtful that he knows anything re the clubs he listed except from the info/data contained in the questionnaires mentioned. It has always been our opinion (he gave his...we give ours!) that just because an OM writes for a national magazine, it does not necessarily mean he is an expert nor that he knows all. There are many OM in the club ranks that could/would write far more factual/truly informative material, were they getting paid to do it as is the writer in point. Yes, we appreciate the publicity, but we dont exactly think it is necessary for possible/propsective members to be "swayed" by an unknowns bit of inferred "expert opinion".

We would also mention that certain info/data re other clubs in the list was not at all up-to-date, factual. This is not good in any way for the clubs overall...nor for the hobby. Of course the readers of these mags, for the most part, do not know contents are written far in advance of publication and can therefore be stale or far from fact when they read them. To sum up, coining an old phrase... "in a nut shell"...the national mags, wanting to capitalize on the SWL/DX hobbies (which has increased twofold-perhaps threefold, their circulation in recent years) will print most anything, by most anyone, not giving a hoot about the hobbies really, nor the clubs which truly promote them, but just so they can add to their circulation, gain subscribers.

We should like to see the day when there will be a club having money/facilities and all to be able to come out with a commercially printed mag...one that will truly benefit the hobby and those who are interested in it. Perhaps its not so far in the future as some OM think! We have the ANARC now, and though tis young, it is worthy basis from which our hobby can take root, stem into solid cooperative organizational idioms through which the SWL/DX enthusiasts may become as recognized a group as the ARO's. We are making a start, publicity or no!

Bill Eddings

HAVE YOU NOTICED?..

Some members keep our organization strong
 While others join just to belong...
 Some dig right in, some serve with pride
 Some go along just for the ride
 Some volunteer to do their share
 While some lie back and just dont care
 On important things some always show
 Yet there are those who never know
 Some always pay their dues ahead
 Some lag behind and play like dead
 Some do their best, some build, some make..
 Some lag behind and wait for breaks
 Some drag, some pull, some dont, some do
 Consider then....which of these are YOU?

..via Dick Jenneman

AROUND THE CLUBS

WIDXA mailed out its second bulletin. It is confronted with minor bits of QRM such as little support/reports from members and the SWEC editor, residing in the Dominican Rep. was unable to get his section to hdq due to "situation" in his country. Considering all

however, the club has good potential and its staff is sincere.....CIDXC now with a newly elected staff came out with another issue of Messengerette added to its regulr bulletin. It also announces a MW contest open to all interested DXers, begins July 1st, ends July 31st. Freqs cover 540/1600, loggings must only be of stations 2000 ni or more distant from entrants QTH and have output of 5 or less kw. Prizes are offered. Logs must be postmarked no later than Aug. 7th and should be sent to Ambrose Maxin, 23 Lambert St., Winthrop, Maine 04364..... Three New York state DXers recently got together to form the "Empire State DX Club" (seen's to me there was one in past!) The club, still in its forming stage, is open to only the residents of New York state, dues are \$4 per year. Further info can be had de Doug Lanerson-ESDXC, 107-13 118th Street, Richmond Hill, N.Y.....IRCA is seeking a new publisher and DX Forum ed. Bill Mittler and Don Erickson will be QRT. these positions, cannot continue. B.E.

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Summertine is the time when it is too hot to do those things around the shack that it was too cold to do last winter!

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RE NEW SECTIONS

From time to time we receive requests or suggestions from a few members that we have certain added adoded sections to our bulletin. FM-TV, VHF-UHF, PenPal, Space DX, etc are some mentioned. Thus hdq would have it known that any new section is always given full consideration,,none outrightly are refused or rejected! However, being these sections have no appreciable amount of following at present, in NASA ranks, it is deemed best we do not contain them time being. Should interest warrant them at a future date, we will then take action. We at hdq, as at hdq of all clubs surely do, try to serve/satisfy majority of members, but it is a difficult task. Consequently it is rather an impossibility to satisfy the minority!

APPRECIATION

To those NASA members recently graduated from highschool and who were thoughtful enough to send to "all the gang!" announcements of their commencement exercises, invitations thereto, we extend sincere thanks and appreciation. Regretfully it was impossible for us to attend. However, remembering bits of speech I gave as the valedictorian of my class some years back, I offer them here for your cogitation as you enter the "open world".... You are young enough to desire success, yet old enough to know that true wealth is not the abundance of things possessed. You are young enough to enjoy a good time, and old enough to know that one cannot have a good time if pleasure-seeking is put first in life. You are young enough to crave new friends, old enough to be appreciative when they are found. B.E.

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GOOFY COMMERCIALS

use..

Slopette
SLOB DEODORANT
 ...YOU'LL SMELL LIKE A
 HOUND DOG

.....

(The following letter was submitted to our HamBand Roundup editor, but was received too late to be included in his months section; We therefore contain it here so that perhaps other NASA members can share in the bit of happiness with the writer. B.E.)

East Point, Georgia

June 24, 1965

Dear Richard;

I got my first REAL chance to put the NASA motto into practice recently!

A couple weeks back, I was listening to the CW portion of the 20m band. I caught HK3ATX (Luis) in QSO with a WA4. Well, I had already had his country/prefix QSL'd, but not on CW...so I shot him a card.

Six days later I rcvd his QSL and a letter telling me he was to have had a sked that day (When I hrd him) with a ARO here in East Point, but had developed trouble in his SSB rig. He sed he really needed a sked into my city as he had some traffic for a fellow's wife(XYL)here. All he knew was the call letters and the op's name....K4CVQ, Mason. He asked if I would give him a call on the landline and try to arrange another sked.

It was three days later when I finally couaght up with the local K4CVQ. When I did, he infromed me of the date-time-freq most suitable for the sked. I, in turn, told him I would monitor at the time in case Luis was not on freq...and that I would give him a call on the landline. Right away I air-mailed the data for sked to Luis.

Well, what resulted was the biggest thrill I've had since I began SWLing. After making his contact with Mason, Luis addressed a comment to me directly/personally, expressing his most sincere txn and 73. He pronounced my full name and my WFE call slowly and distinctly. Fortunately I had the tape recorder going and recorded the entire QSO! This little strip of tape is now my most valued memento of my SWLing activities!..considerably moreso than the tape I have of Radio Prague answering a question of mine on its "Listeners Club"program.

Yes, its a good feeling to know that your hobby and yourself have been of service to another OM when he needs it!

Vry best of 73 es gud hunting.

Silvio A. Marini, Jr.
WPE4IIO/SH-W4-103

Our txn to Sil for submitting the letter, giving us opportunity to share his experience and resulting reward. Tis a real FB bit of proof that "Unity and Friendship" is worthy! I should also like to mention that other NASAers have sent similar letters here to hdc at times...each showing, in one way or another, the keeping of our motto. Lou Stober, August Balbi and myself, to point out a few, have rcvd letters from places such as India and or Korea, Japan, the Philippines, from people we never knew before, but who saw our names or photo's in various radio publications, wrote us as afriend anew, and requesting small favors, offering reciprocal. Yes, "Unity and Friendship" IS WORTHY!!!

B.E.

New Members, cont'd.....

Art Meinhardt, Jamaica, New York. "Unmarried, aged 63, educated in Germany and a photo-engraver by vocation, I am interested in trying to understand the problems as well as the difficulties of other peoples, and making friends. I feel our hobby a help in these respects. My receiver is a Collins 51J4, 75A4 and Hammarlund SuperPro; Antennas are a HyGain vertical and a loop for BCB. I am interested in SWBC, BCB and ARO bands. Other interests include astronomy, bowling, billiards, and microscopy. Read of NASA in EI."

NASA** RENEWALS.....renewals.....RENEWALS **NASA

Oldtimers back in the NASA fold for another year are; Paul Moyer, Bill Sparks, Jerry Hartweg, John Feltmate for their second year and Gary Payne for his third year.

MEMBERS CALLED TO SERVICE

Uncle Sam sent greetings to members John T. Arthur and John Seay recently. Latter is already gone into uniform, former still awaits orders. Both have made it known they plan/hope to continue hobby pursuits and support the club no matter where they be sent.

JULY BIRTHDAY LIST

Many happy returns to Don Erickson, Ray Fronczak, W.R.Davis, Joe Mauriello, Jim Earl, Bill Rosen, Hank Slade, Gary Fredricks, Larry Bennett and Bob Rickert...all celebrate a whiz-bang birthday this month of July.

AUTOBIOGRAPHY OF A NASA MEMBER

I started DXing in '59 using a portable rx with sw band coverage. After 5 or 6 months and two rx changes, I was well on my way. Became a rather reputable DXer, partly due my reliable reporting, goodly percentage of QSL verifications from all over the world and my work as SWBC editor for one of the old (best at that time!) clubs. My specialty was LA DX and of the many such stations logged, 87% were QSL'd. At one time, in fact for 2 years, I had the only QSL from Radio El Sol, Colombia, which was considered one of the hardest of all stations to QSL. Lately however, it is fairly regular doing so. Everything was going fine...had over 100 countries QSL'd (all told) until the army "grabbed" me. That just about put a stopper to my DXing activities...I was inactive for 3 long years until last December when I was honorably discharged and when I took up a vocation here in Norrkoping, Sweden. So now, three years later, I am going to try to do even better than in past...and with an entirely new logbook. But first I must get me a new receiver...my present is too non-sensitive, gives trouble with "ghosts". Incidentally, my interests are strictly with BC stations (both BCB and SWBC)...I have no interests in other DXing nor in cardswapping, etc. Robert Newhart, WPE2/SM

MEMBER OF THE MONTH!

Our club is fortunate at times to consider to be above average in re and not experienced all ways, yet starting right from the beginning sections, taking part in club activities such an OM we designate as the PHIL ZUCCHI., who at 16, joined us



the start, began giving his best, sincerest/wholehearted support, far in excess that of the majority of members -old or new. Too, he has taken interest in ANARC, utilized his right/privilege to speak as a NASAer affiliated therein! This be the type men appreciated...not only by hdq staff, but also by section editors; An OM whose help, support and friendship they are grateful for and who makes them effort all the more to serve in return. Phil enters his senior year of highschool next term and we are sure he will graduate with honors far more worthy than those we bestow on him here as our member of the month. We need more like him, this youngster of today, oldtimer tomorrow!

attract certain new members which we to hobby caliber. OM though young having good potential, proving it by of membership, reporting to bulletin ivities and promoting our motto. It member of the month this July 1965; in March this year and right from

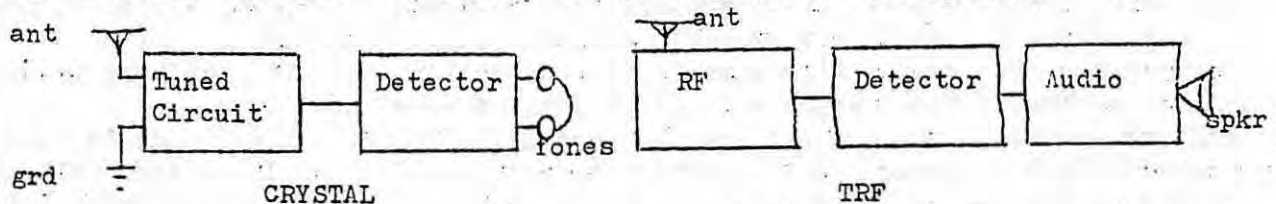
TECHNICAL
TIP

UNDERSTANDING YOUR RECEIVER

by Joe Rudolph/W2WZB

TECHNICAL
TIP

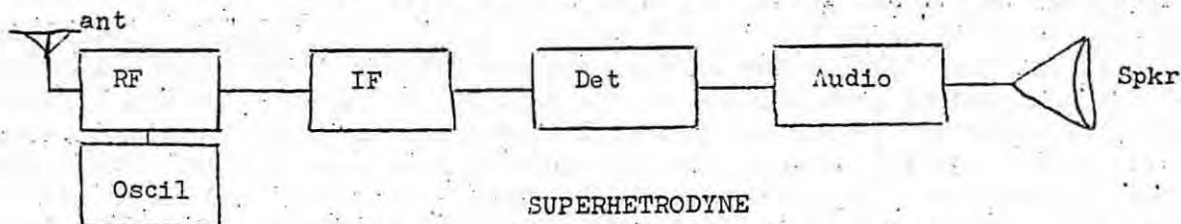
The very earliest radios were crystal sets. No tubes were used, only an "oat meal box" wound with wire, tapped and hooked across a variable condenser. The signal was tuned in by the tuned circuit (coil and condenser) and was detected by the galena crystal and heard through earphones. The best antenna and ground were required.



Our next step on the road to radio development was the TRF (tuned radio frequency) receiver. With the vacuum tube now invented, it was used for radio frequency amplification, detection and audio amplification. The signal is tuned in by 2 or more radio frequency stages. Having been amplified on the received frequency of (for example) 1000kc it is next detected. In the detector stage the audio envelope or modulation is removed from the RF carrier of 1000kc, but is too weak to operate a loudspeaker. We therefore must amplify it with 2 or more stages to get sufficient audio voltage to push the loudspeaker.

Although the TRF receiver was a big improvement over the Galena, the antenna is still a must except near a station. Even then, a big disadvantage is a strong local station might be heard over a large portion of the dial, and too, you might hear 2 or more other stations all at the same time.

Finally the superhetrodyne circuit came into being. Studying the block diagram, you will note some similarity...there is still the RF, detector, audio, the loudspeaker and the antenna; However 2 new stages have been added, an oscillator and IF amplifier.



If the receiver is tuned to the same 1000kc signal, it will be received on the antenna and be amplified by the RF stage. Now however, it will be heterodyned or beat against a continuous oscillator which is operating at 1450kc. This process is called mixing. The result will be two new frequencies produced...the sum freq of 1000kc plus 1450 or 2450kcs and the difference, 1450 minus 1000 or 450kcs. The difference freq of 450 is fed into amplifier stages that are called Intermediate Freq Amplifiers or IFs. It is common practice to have 2 or more IF amplifiers in a receiver. The remainder of the receiver remains the same; The signal is detected and amplified as in the TRF. Still, this system is far superior to the TRF. Stations near each other will not interfere as readily within reasonable limits. The major defect here however is poor image rejection. To understand this, we must know what image is...so for example... Getting back to our simple superhet, the oscillator was on 1450kc and the RF was tuned to 1000kc. Should a strong 1900kc station also be received on the antenna and push its way through the RF stage, it will also beat with our 1450kc oscillator and produce a 50kc signal which will be amplified by the IF stages. The 1900kc station is called the image! A further and common example of this is noticed on certain communication type receivers and home type shortwave sets. The 14mc ham/phone band is 14.2-14.35mc; In the superhet, if the IF stage is tuned to 14.2, the oscillator will operate 450kc higher or on 14.65mc. If you listen on 15.1mc, you will hear the same ham you hear on 14.2mc...this results from the RF stage of your receiver tuned to 15.1 passing some

(cont'd)

cont'd...

You dont have to be a disc jockey to make a tape however. There is nothing wrong with tapes on which the OM simply talks along....this is the old "tried and proven" method. And actually is probably the best, BUT, the big bug here is monotone. Vary your voice. Dont just yak without enthusiasm. Sound ALIVE!! Too, you can back up your yakking with some of your favorite music/songs...mebbe even break the monotony by joining in/singing along with the artist. A word to the wise though...If you do a "way out" tape and get a reply requesting no more of same....comply. You might lose a good buddy if you continue the "show". He might prefer to hear DX you have recorded...SWSB, BCB, ARO, or wat have you (and after all OM, thats our hobby!!) But in any case and above and beyond all else...dont be afraid to try something new! And dont cover up mistakes...they sometimes make for more enjoyable listening than a well planned program. John T. Arthur/WPE6FKF

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Thanks to the forementioned/listed and to all others who took the time sending in note or vote re the bi-monthly matter. Special tnx to Johnnie T! Why dont more of you join in, get listed? Its a good way to learn more about the hobby and also make some new friends. Watsa? And oh yes, incidently...I'll be doing a similar coulmn like this for WMRC in future, but neither will be repetitious.

Thats all fer now...be looking fer ya....have a reel FB summer! 73, Bob
(Bob Rooney, 435 Bartlett Avenue, Ridley Park, Pennsylvania 19078)

TAPE TIPS... "COMMON FAULTS/CAUSES"

Having proglens??? Here are some of the usual bugs and remedies for getting rid of em.

Loss of clarity: This harsh or fuzzy distorted sound is likely to result from too high a recording level. It could also however be caused by certain faulty tubes. In either case, it is a sign of something (tape or tube) being overloaded...and/or it often also results when cheap-low quality tape is used.

Muffled sound: This results from inadequate frequency range for that which is being recorded. Is easily brought about by the building-up of dirt or a film on the tape heads. They should be cleaned periodically.

High noise level: (such as hum or hiss) Could be serious. Is usually caused by faulty tubes or some other electronic component(s) in poor condx. But dont overlook fact it could be that the record heads need demagnetized.

Magnetic print-through: Shows up as an echo of a sound before or after it. The cause is a tendency of the magnetism on one layer of tape to transfer slightly to adjacent layers. To avoid this, try recording at minimum level.

Waver in pitch: (such as wow) Periodic wavers are likely to result from a deposit of somekind/something on one side of the drive capstan. Clean it with prepared solutions or plain alchohol(alcohol). A more serious cause of this is unlubricated bearings; In this case have recorder checked by a qualified repairman. (Reprinted from Frendx, January '63.)

.....RECORDING EX......

The tape recorder is an invaluable aid to any DXer; You might even call it a "baby-sitter" at times, for you can take a break, leave your recorder on, then return later and not have missed a single bit of the xmsn you were tuned to. This of course, much dependent on condx and whther or not you had the recorder/rx set up properly. There are various means of recording DX, from rx direct, or from rx through certain other gear, into recorder. Best thing to do is experiment with the equipment you have at rd. Soon you will have learned all the tricks and will have yourself some tapes of eal interest to yourself and other DX friends. Try recording various sign on and/or sign offs of stations...or their ID's, IS's....make a collection (on tape) of them. Yo will find some of yours to be better than certain found on commercial discs or taps....and which sell for a tidy sum. Dont overlook the use of your recorder as a help in your DXing! Put it to use in tapssponding sure, but use it as a DX aid too!

 Doug Benson Editor 614 Main Street Laconia New Hampshire USA 03246

We of the NASA Newsroom believe that most members of the club are well-read and informed in these days of space exploration, fastpaced world events and news of paramount importance. We believe that NASAers regularly read such popular magazines as Life, Popular Electronics, etc. Therefore, we are wont to avoid copying items from such into the pages of Friends. Not only does this violate copyright laws in many cases, but is a worthless "filling of space" in the section. Our goals are to provide you with information perhaps not available to you via normal channels of reading.

D. Benson

NASA Special Newsfeature on Sunspots (tnx to Dick Jenneman and NEA..)

When spots speckle the face of the sun, radio signals are apt to bounce crazily around the globe. During a recent peak of sunspot activity, London television viewers were startled to hear a taxicab driver responding to a call in Flatbush. Two girls frankly discussed a blind date on the telephone, enlightening a New Jersey station's programming in another sunspot-induced communications freak. Sunspots, says the National Geographic Society, have been associated with all manner of happenings, from swallow migrations to the French Revolution. The evidence for these far-reaching effects is shaky, but the spots apparently do affect a variety of things. Biologists in Iceland found that the North Atlantic Lumpfish, a source of caviar, proliferates when the sun is spotty (Who says "poor fish", eh?). Psychiatrists in NYC recently computed a correlation between sunspots and mental hospital admissions. The spots, unseen by the naked eye except when the sun is shrouded by fog or mist, look dark only by contrast with the more luminous surface about them. They have a surface temperature of about 4000 degrees C. In the 19th century, Germans discovered that the spots normally appeared in 11-year cycles. Astronomers are not sure what causes sunspots. One theory is that they stem from magnetic interference with heated gasses as they rise to the sun's surface by convection. A spot's magnetic field hurls electrons at a speed of 1000 miles a second, bombarding the earth with communications havoc.

Cong Goes Telly Regardless of what the Pentagon says, the major news media expect to see American troops involved in action against the Viet Cong guerillas. They're signing with RCA for 24-hour, \$12,000 a month Saigon-Manila-San Francisco circuits to handle the added news stories expected. (Ron Luyster)

Granite Staters Ask BUG BILL A bill that would ban wire tapping or any other form of bugging was introduced in the New Hampshire House last month.

Instant weather forecasts in the making Weather experts this month ^{began} work at Geneva, Switzerland on plans for a meteorological satellite system that would provide the world with instant weather forecasts and global storm warnings. The executive committee of the WMO hopes that by the time the meeting ends plans will be completed for the Weather Watch, a system first discussed in 1963.

Laugh of the month In Nashville, pawnbroker Clarence Rosenstein found his portable tv set missing when he returned home, along with \$40 in cash. He then took a closer look at the set he had taken in at work that day for \$40. It turned out to be his own. (AP)

Pirate to extend hours King Radio will soon extend its schedule into the night. Tests are currently being heard in Europe between 1800-2100 hours GMT. Radio City is carrying out irregular tests out of normal broadcasting hours in conjunction with their proposed power increase to 10 kilowatts. (SCDXers)

WRUL with another contest Radio WRUL, New York, holding another DX Contest on August 28th. Time is 1900 hours, and WRUL will supply more info on receipt your letter.

Domestic Satellite plans afoot With the recent excitement over the Earlybird satellite, the ABC Network has decided to try to put up its own domestic satellite. ABC a few weeks ago told the FCC that it was planning to orbit the satellite to relay its programs to its affiliate stations across the nation. One purpose, says ABC, would be to save AT&T circuits' costs. (Ron Luyster)

Magnetic Storm Cause Discovered Those magnetic storms that periodically bedevil radio communications are apparently due to a combined effort of both the earth's and the sun's magnetic fields. This find was reported by Donald Fairfield, graduate student at Penn State. The data expounding this theory was obtained via the Xplorer 12 satellite and by ionospheric observation stations in six nations. He told the annual meeting of the International Scientific Radio Union the evidence suggests that the great field around the sun also helps produce the Northern Lights, as it combines with the earth's. (Note also the first news item, page one). Via Ron Luyster and AP.

California's Ears not lettuce The California Institute of Technology is getting new ears, the better to hear outer space radio signals. They are 130-foot dish antennas, the first of which is under construction at the Owens Valley Radio Observatory. When completed, the series of eight dishes will be the most powerful and flexible in existence. Fifty times as powerful as current systems, it will be capable of investigating a great range of unknowns from the surface, atmospheres and characteristics of the various planets. Its main purpose will be to more closely pinpoint radio signals from deep space. (Ron Luyster, via the Wheeling News Register and UPI)

Color TV Tubes in demand(NASA's so-what-else-is-new dept.) Color TV tubes are in such demand that Radio Corp. of America, the leading producer, says it will cut back on shipments to other makers, and retain more of them for its own use. (Newsweek, via Luyster)

Radio-TV Firm to Buy Airline Storer Broadcasting Corporation, which owns a group of radio and television stations across the nation, announced that it had obtained a 30-day option to purchase a controlling interest in Northeast Airlines. Storer is to acquire 55% of the stock. (Dick Jeneman, via UPI)

Bee Activity Determined by Sound Waves Variations in sound freq. and loudness help to explain the interesting communications system used by the honey bee, says a science teacher. He reported to the American Assoc. for the Advancement of Science. R. E. Showers reported on tests made by himself and F.E. Moeler, Dept. of Agriculture bee scientist, under a grant from the National Science Foundation. Recordings showed that the frequency of a bee's sounds shifted upon each varied chore performed. The lowest frequency..lowest pitched buzz..was in that part of the hive where bees were returning from the field. The lowest buzz was contrasted to the highest; when bees were subjected to smoke. (Dick Jeneman)

Single Sideband Rig Bows General Dynamics is in the process of developing a 27 pound, man-carried single sideband unit for military use. The transceiver will be able to send and receive messages on 28,000(!) different channels, compared with the one to four channels available to the man-carried sets of earlier days. (See the General Dynamics Annual Report 1964, submitted by Phil Zucchi, Mass.)

Microwave Net Fostered Stromberg-Carlson Division of General Dynamics is installing a 1,000-mile microwave network for the Colorado River Storage Project. The experimental air traffic control will insure uninterrupted flow of voice and data messages along the five state microwave network, bordering Colorado. (via Phil Zucchi)

New Verie Pasteboard Word is out that Radio London, pirateer (as if you didn't know) is to introduce a new verie card in the future. And Manx Radio, says SCDXers, has been granted permission to air pop records for half total broadcast time.

WRUL scores broadcast first WRUL on June 9th made broadcast history when it was invited to beam two broadcasts to Germany and France via the Earlybird satellite by RCA Communications Incorporated. WRUL was the first radio station here to have been invited to participate in an international broadcast experiment. The first program was beamed to Germany, thence retransmitted via Hessischer Rundfunk. They then returned the transmission to Andover, Maine for WRUL. Comparisons of technical quality sent and received will now be made. The broadcast to Paris, arranged through the cooperation of RDF, was similarly arranged. WRUL will rebroadcast the programs sent, via its 5 transmitters, to illustrate the use of shortwave for intercontinental transmissions. (via Bill Eddings from WRUL News Release).

Cable To Go Down The Post and Telegraph Administration of South Africa plans to lay a cable linking it with Europe at a cost of 70 million dollars, according to information released by A. Hertzog, Minister of Posts and Telegraphs. (Dick Jenneman)

More news on that Russian "Space Civilization" Radio Signal reported a few months ago comes from an astronomer at Pasadena. He said that five radio sources, including THE one, are the farthest and fastest objects yet discovered. Dr. Maarten Schmidt told a symposium at CalTech that CTA-102 is receding at 114,000 miles a second. The five are so far away their distances cannot be measured, but all are much farther than the previous most distant source, called 3C-147. When Russian scientists said they had found a variation in radio signals of CTA-102 that might be evidence of transmissions by intelligent beings, astronomers here said they were sure the signals came from a natural, NOT an artificial source. (via D. Jenneman, from an AP article by Ralph Dighton)

Thanks to Leo Fluery of New York, Dick Jenneman for info sent that we couldn't use this month. Special thanks to Phil Zucchi, new NASAer who's launched his membership by taking a solid interest in the doings of the newsroom. Thanks also to Bill Sparks of California and hard-working Bill Eddings.

Problems of Life Dept; Ennybody know of a power supply applicable to a 6 volt Volkswagon? Seems all the manufacturers don't cater to 'em. We want a 500-watt rig in the car.

Deadline for news items the 15th of the month.

Untill next time, 73s and GOOD NEWS!

Doug

SHORTWAVE CENTER >>>

— SWBC —

ALL GMT

Compiled at NASA Hdq.

Deadline 20th of July

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PRO'S AND CON'S OF SW STATION CLUBS.

More and more SWBC stations are forming or announcing formation of clubs. For the most part these are no more than "gimmicks" to attract steady/regular listeners. Truth of this can be found in the list of qualifications...to become a member and stay as such in good standing, a certain number of reports must be sent at the beginning, then so many others must be sent at intervals (depending on rules/regulations of the particular club). Factually, in joining one such club (if they can be called that!) you don't become a member, but no less a monitor. True you receive a membership certificate or the like and are sent bulletins or skeds put out by the station, also are qualified to apply for certain awards offered, but the point is, you must monitor the station and you must report (again as per rules/regulations of the club!) to be so "honored" with membership. It boils down to the fact that as long as you monitor the station, you are a "member" of its so-called club. It does not matter if you like the programs which are broadcast by the station...you still have to make reports on them if you want to remain a member. And strange though tis, many SWL's and/or DXers will listen to these programs, whether they like them or not, just to become/stay a member! belong to the club! Yet there are numerous of these same SWL's and/or DXers, members of clubs like NASA, CDXC, ASWLC, etc., that never submit reports to bulletins, even though they are free to do so at any time, on any SWBC station. What would happen if clubs like ours were to set up rules/regulations making it mandatory that a certain number of reports had to be submitted at certain/various intervals? That all members had to report on a certain station or have membership canceled? How would this grab YOU??????

UPCOMING PLANS-ACTIVITIES

NASA is looking ahead to the DX season and is considering something unique in the way of activities for SWBCers. Though all is not yet ready to be publicized in detail, we can say it has to do with making up "teams" of DXers in the ranks, having them compete with one another. Said teams will be comprised of one oldtimer, designated captain, and two or three less experienced OM. They will be based on their reports to this section of Frendx, and their DXing ability, type of rx/antenna, QTH. There will be prizes to top teams! Anyone wishing to be considered as possible team-mate is advised to report as frequently as possible to this section during the next few months. Full/complete info on this will be given at a later date. Incidentally, prizes will be worthy ones! Not just "trinkets"!!! Start your "training program" now...get in shape!

Also being planned is a SWBC "popularity" contest similar to those held at times by such as ISWC, and other clubs. It will entail a poll of favorite SWBC stations, as per NASA members and each entrant will be asked to tell why he lists a particular station as his favorite. Again there will be prizes...again they will be worthy ones. Watch these pages for complete details soon! We anticipate all NASA SWBCers entering.

Nothing has been mentioned of late re the NASA SWBC TARGET; This is due the fact hdq is still in process of discussing certain proposals with various SWBC stations of the world. Being that this won't be some "trite" activity, but will perhaps open up a new dimension of cooperation between SWL/DXers and SWBC stations, it cannot be accomplished hastily. NASA wants this to succeed right from the beginning, therefore will not give any details until all is definite. ALL members who have been approached on this are asked to QRX time being. The scope of this plan requires diplomacy as well as tact!

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CONDENSED CHRONOLOGICAL **
An Account of Radio Activity in Dominican Revolution
 Courtesy DXRA

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Saturday, April 24-65; During the morning, the Dominican government dismissed three of its Army colonels suspected of being disloyal. These officers refused to be dismissed and disarmed, seized the Army Chief of Staff. The pro-Cuban 14th of July Movement learned of the colonels' actions about a half hour later. Shortly before 3p.m., three Army sergeants and 15 other soldiers and civilians, some dressed in Castro-like green fatigue uniforms, entered the studios of Radio Santo Domingo TV, the government station located near Barahona St. in the heart of Santo Domingo. They took over the station and controlled its transmissions for about 35 minutes. They announced the Army had revolted and that the rebels would return exiled president Juan Bosch to office. The station urged the people into the streets of the capital where agitators worked them into a frenzy against the existing junta government. A few hours later the station went on the air announcing the government had retaken control of the station. That evening, President Don Reid Cabral made a broadcast to prove he was still in power. He issued the rebels an ultimatum to surrender by 5a.m. Sunday.

Sunday, April 25-65; At dawn, a detachment of rebels captured Radio Santo Domingo TV again. It remained in their hands and continued broadcasting pro-rebel programming through Monday at least, and possibly longer. Radio Santo Domingo began exhorting the listeners to kill policemen and hold families of government Air Force pilots as hostages.

Monday, April 26-65; The station continued to broadcast rebel programs and propaganda as the fighting raged between the opposing forces in Santo Domingo.

Thursday, April 29-65; On orders of President Lyndon Johnson, the first 520 U.S. Marines went ashore from the USS Boxer. They set up a protective ring around the Embajador Hotel on the western side of the city, where American citizens awaited evacuation. At this time, what force had control of Radio Santo Domingo TV was uncertain. It and the other stations in the capital were believed off the air.

Monday, April 3-65; U.S. strength in the Dominican Rep. continued to be increased. That evening, for the first time since the rebellion, a station was heard on Radio Santo Domingo TV's frequency of 3217kc (this logging made in Wisconsin). The station was transmitting in Spanish, power was very low, signal weak and could not be positively ID.

Tuesday, May 4 - Wednesday, May 12-65; Radio Santo Domingo Libre, under rebel control, heard and ID'd. This station seemingly was operating at less than normal power (3217kc) broadcasting anti-junta and anti-U.S. programming. Weakness of the station presumed to be the fact that power stations had been inoperative for several days and apparently emergency generators were in use. During this period no other SW stations on the island were heard. The junta forces reportedly had 2 MW stations in operation near Santo Domingo; One of these was a Radio Isidro (HIFA) on approx 644-647kc. It was first reported heard on May 7th testing with "Stars and Stripes Forever" and frequent annmts. During next few days programming changed and it was heard with classical mx and pro-American and pro-government speeches. On May 9th it began relaying the second station controlled by the junta forces, "La Voz Oficial del Gobierno de Reconstruccion Nacional" which claimed to be located in Santo Domingo, but no power or other info was anncd. (First reports said it operated on 960kc, but later reports said 860.) It is not known if this station was hrd in the U.S., though its relay (644-647kc) were hrd in Florida. It had irregular s/off times, but usually left the air about 2200EST. Apparently these junta stations used commercial outlets.

Thursday, May 13-65; Rebel controlled Radio Santo Domingo Libre silenced by government Air Force by strafing and bombing.

Friday, May 14-65; Radio Santo Domingo Libre back on the air, again attacked by government forces (reported live by the station as it occurred) and silenced (2nd time within 24 hours). Has not resumed broadcasting since.

Wednesday, May 19-65; Dominican Forces take over Radio Santo Domingo TV. Rebels now using MW station "Radio Constitution" (QTH and freq unknown).

(Since this time, the OAS extracted a promise from junta forces to turn over control of government stations. However, government refused. R. Santo Domingo TV remains silent)

**Abbreviated form of longer report compiled by DXRA.

..via Don Jensen



N E W S FAR EAST...A clandestine "Radio Peking" is now operating in this area and is reportedly QRMing actual Communist Chinas' Radio Peking, which has made mention of it. Authorities in Japan say that it is most likely located on Okinawa or Formosa but both the U.S. and Nationalist China deny it. (Zucchi)

T I P S UKRAINE,USSR...Radio Kiev gives following sked of English to NA; 0030-0100 on 11790//9810, 9680, 9600 and 7180; 0430-0500 on 9680//9600, 9610 and 7180. (Zucchi)

S K E D S ISRAEL...The Ministry of Posts in Israel conducted test xmsns recently (latest 30 VI to 2 VII) on 11910//11760 at 0800-1000 beamed to Europe. Reception reports were requested, QSL's promised. (Zucchi)

SPAIN...RNE(Radio Nacional Espana)Madrid confirms use of two 50kw stations xmtng from a Canary Island site beamed toward the Spanish peninsula 1500-1700 on 9660 and to SA 0100-0400 on 11800 with Venezuela as primarily target area. (NN/Fela)

FINLAND...Radio Finland-OIX4, 15195 signs on at 1550 w/weather report in English and Finnish. ID's again in English at 1610 and broadcast continues w/program of American pop music until 1740. Sked may be had by writting DX Editor, Finnish Broadcasting Company, Helsinki Finland. (Lehtio)

CONGO...Radio Elizabethville,11870 has news in French daily 2000 with a short program of Congolese music following. Radio Leopoldville,11790 signs on at 2030 with similar broadcasts. Reports are not solicited nor verifications mentioned by either. (NN/Fela)

GREECE...The Hellenic Braodcasting Institute at Athens recently announced it was re-suming its foreign service of English and French programs. However such has not been heard lately. (Radio Athens can be tuned on 9605 nightly at 2358 sign on with Greek national anthen. Opening announcermt and time signals are in native language. (Fela)

WINDWARD ISLANDS...WIBS policy is nct to answer reports of reception for any of its broadcasts below 9mcs. However it is now possible*to log it on 15' nightly after 00. Reports should be sent to the Windward Island Broadcasting Service, St.George, Grenada, Windward Islands. *Depending on condx. (Ed.)

THAILAND...The Thai Government has rejected an American offer to install a powerful radio xntr in their country, because of conditions attached. It also announced that it would reduce the number of organizations broadcasting in Thailand, equip those remaining with more powerful xntrs, and limit advertising, all in a bid to compete with propaganda broadcasts from Communist China and North Vietnam. (WRUL-DXWW)

CANADA...CBC to USA, Caribbean and SA is now sked 2300-0045 on 15190//11725*, 9625. To Pacific 0725-0835 on 9625//5970 only one xmsn replacing former two (0715-0800 and 0800-0845).*New freq replaces 11760. (Balbi)

SOUTH KOREA...VOFK replaced old 6015 with 9640 from 0800-0900. English news and prog is 0830-0900, then into native lang. (Balbi)

NORTH KOREA...Radio Pyongyang recently made some drastic changes. No longer hrd on 14520. No English at 1000 or 1100 on 9752//7800. Only English hrd lately is news at 1400 on 9752. Also changed languages on 6540, 6270, 6195, 7600 and 7800 after 0800; More Korean/Chinese, less Russian. This station also hrd lately on 5040 with ID in Korean at 1400. (Balbi)

TAHITI...Current sked; 1615-1815, 2100-2300 on 11825(Sundays from 2000) and 0300-0800 daily //6140 (Mondays hrd with sports prog 0230 sign on). Signals from this station, during recent eclipse-May 30th, were uneffected 2000-2230. (Balbi)

MALAYSIA...Singapore positive on 5035, hrd at 1400 w/ID in language. Also hrd daily on 11940 after 0700 when AFRTS signs off(same freq). (Balbi)

PHILIPPINES...FEBC, Manila, DZF2 on 11920 hrd with test xmsn 1 VI and 2 VI from 0630-0800 in English for Japan, Malaysia and Indonesia. Signals strong* Asking for reports from stated target areas. (Balbi)*(Using 50kw!!)

JUBA..."Radio Habana weekly entertainment...Castro speeches every Saturday and Sunday night, repeated over and over on 11760//11865, 11790. No admission charge. Bring your own lunch, peanuts and sleeping bag." (Rowell)

ALBANIA...Radio Tirana now has half hour English programs 0000 on 7265; 0630, 2000 and 2200 on 7265//9390. (Lee)

AROUND THE WORLD OF SWBCers

The FCC has refused recent WRUL request for frequency changes sought to avoid QRM on several of its present, especially 17840 after 1900GMT. (WRUL-DXWW)

The bells of St. Peters are sounded prior to the start of broadcast from Vatican Radio beamed to the Argentine nightly 0130 on 9645, 7250 and 5985. This 20 minute prog in Spanish is followed by one in English beamed to NA on same freqs. (NNSB/Fela)

Radio Moscow uses no less than eight high-powered xmters (eight freqs) for its daily 0000 xmsn in English to NA. Needless to say this pattern of broadcasting causes much QRM to other stations. (NNSB/Fela)

Kol Israel states it has only one English xmsn each day...2115-2145...and that it is beamed to South Africa on 9009, to Europe and the UK on 9625//9725. (NNSB/Fela)

Radio Prague now on new freq of 7120 from former 7115. Other freqs are 7345, 9795, 11990. These are used for xmsns beamed to NA at 0100. This station also has a spec prog on Sundays only at 1500 on 15285, 15448 and 17825. (Jerry Hartweg)

Radio Nacional de Espana (RNE, Madrid) confirms it is using two 50kw stations/xmters from a Canary Island site. Beamed towards the Spanish peninsula, it xmits programs 1500-1700 on 9660. From 0100-0400 the programs are to South America on 11800 with Venezuela as primary target. (NNSB/Fela)

Radio Tanganyiki at Dar es Salaam still uses this ID on 5050 for its English nx period each day at 2100. (NNSB/Fela)

On again/off again Radio Greenland is now reported testing a shortwave xnter on 5960 and 5980 preparatory to regular broadcasts and relaying of the Danish Government MW station OXI, Godthaab. (Tim Lehtio)

Radio Nacional (LRA32) Buenos Aires xmits a special program in English to NA on 9690 Mondays and Fridays only. Regular Eng programs are aired nightly 0420-0450 on same freq. *0315. (NNSB/Fela)

Reports should be sent to: RAE, Sarmiento, 151, Buenos Aires, Argentina.

"Voice of the West" is not ID of Portuguese National Radio. It is merely the name of special program. (Ed.)

***** SATELLITE AND SPACE NEWS *****

The FCC turned down a bid by the ABC to put up its own satellite. FCC figures that if a network put up its own, it wouldnt need local stations at all. Programs could then be picked up direct from the orbiting xnter. (SNL/Ed.)

"Perhaps the USSR and USA will each use satellites for psychological warfare (which would be nothing more than they are now doing via shortwave broadcasts). Imagine a powerful satellite broadcasting propaganda mixed with entertainment that can be heard even on the transistor radio sets that "swarm" in every country." (Time magazine)

The communications blackout, produced by the heat of a space vehicle during reentry and caused by the ionized layer of air surrounding it, may soon be lifted. It was tried for the first time on the manned Gemini 3 flight when a water-injection technique was employed. Scientists may soon have their problem solved. (SNL/Ed.)

Channels used for Gemini flights...296.8mc -Voice; 259.7mc -Telemetry; 243.0mc -International Emergency; 226.2mc -Telemetry. (Electronics World magazine/Fronczak)

Note: A number of members sent in bits of info re the recent Gemini 4 flight...none of which coincided with the other. We are pleased to note interest in this "coming" phase of DXing and have initiated action re the possibility of having a future section or column covering it. However this, as any new section/column, will be dependent on whether or not support warrants it. Thus, should you be interested, drop a note to hdq so stating...and list your equipment, experience hereto.

* * * * * UTILITIES UTILITIES * * * * *

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Phil Zucchi

0125 10210A "Ici Paris Radio" wx station giving wx for Europe.
 0135 10200A Telecommunications de Bogota, Colombia w/test xmsn.
 1250 10450A Eastern Terminal of Australian Overseas RTS w/test.
 0150 9450A PTT & Radio Administration from Tel Aviv w/test.
 1250 10425A C & W Ltd., St. Georges, Bermuda, W.I. w/test.
 1255 18350A French Telecommunications Service w/test.
 1340 9575A UNIDENTIFIED "Range Canyon 1 to Range Canyon 3. Who/where?
 QSL's rcvd: KUH, Hawaii for RCA test. WVN29, Puerto Rico for RGA test. Meterological wx station at Yoff Airport, Dakar, Senegal for report hrd.

Joe Rudolph

0320 12960A WPG, Mare Island, California. USNavy stations w/V tape cw.
 0322 12225A HRE3, Tegucigala, Honduras w/QRA tape cw.
 0147 10860A LQR7, Buenos Aires w/SSB vm in Sp/Eng.
 0255 11420A CFH, Halifax, Nova Scotia w/CQ cw.
 0250 10390A TQH, Paris, France w/SSB vm in Fr/Eng.
 0237 10340A UNIDENTIFIED "this is Saxon Center Telephobe circuit" w/SSB test. Who?
 0300 10300A IRH31, Rome, Italy w/SSB vm in It/Eng.
 0332 10195A Athons, Greece w/SSB vm in Grk/Eng.
 0319 9990A LCJ, ? Norway w/V tape cw.

Re my wanting to hear from other OM on utilities "Round Robin"; This is to exchange info/facts/data pertaining to any/all utility stations. A "co-op" idea between we OM interested in this phase of DXing. My QTH: 40 Arthur Place, Red Bank, New Jersey.

Bob Zobot

915 5559A WSY, New York FAA stations w/wx.
 2345 5611A New York Oceana wrkg a jet transport.
 0145 2182A NME, USCG Radio, Boston cllg Portsmouth, Va.
 0159 2182A NMD47, USCG Radio, Buffalo cllg Portsmouth, Va.
 0207 2182A NME USCG Boston cllg WA5850.
 0140 2670A NMP USCG Chicago cllg New York.
 0223 2182A NMD USCG Radio Cleveland cllg Halifax.
 2310 2182A NMK USCG Radio Cape May, N.J. w/wx.

QSL's rcvd: Letters de WSY and RAR, cards de WWVH and CHU.

Jack Page Jr.

0330 15010A New Zealand w/SSB test tape.
 0401 13390A AT&T, Oakland, Calif. w/SSB test tape.
 0435 5065A AT&T, White Plains, N.Y. w/SSB test tape.
 0437 5590A FAA San Francisco, Calif. w/wx report.

Frank Peters

0615 10780A Yugoslov PTT w/test tape.
 0630 11870A Douala, Cameroon PTT w/test tape in Fr.
 2130 12264A Gander Aeradio w/wx.
 1800 15935A "Army Communications" Rio de Janiero, Brazil w/test tape.

QSL's rcvd: JJY, Jpan time station, Tokyo sent card.

Mike Lee

0130 17990A International Radio, Dakar, Senegal w/SSB test.
 0145 14560A International Radio, Buenos Aires w/test tape in Sp/Eng.

Lou Stober

0500 4990A AT&T, New York City w/SSB test.

ote: Jan Turner, editor of RCDXC, Sweden sez new PTF guide (a booklet of 25 pages, listing QTHs, report forms, freq lists, etc) is now available for \$1.25 from: RCDXC, Kyrkvagen 6A, Koppartberg, Sweden. Be sure to mention NASA when/if ordering!

Various of you Ute DXers expressed OK for this mode/listing of reports individually. Thus we will continue using it until such time as wanted/warranted otherwise. B.E.

Utilities cont'd..... Utilities cont'd....

Joe Mauriello

- 0700 4372 Towboat National cllg WCM Pitts. 0702 2638 Jersey Angler cllg Riptide
0705 4372 Towboat Inca cllg Pitts. 0710 2782 TB Brimston cllg WGK St.Louis
0715 2406 SSAfrikan Pilot clg WOU Boston 0910 2716 USSHolden cllg NAB Boston
0810 2406 H/VBlackhawk clg WOU Boston 0710 2716 USSHorris cllg NAD Boston
0812 2406 The Kaite D cllg WOU Boston 0805 2716 USSJ.Madosin cllg NAM Norfolk
1304 2126 Chris-Ann clg WOU Boston 0650 2716 USCG Oladner cllg NAD Boston
2307 2182 SSJohnston clg WBC Buffalo 1935 2406 The Dragon cllg WOU Boston
0725 2182 M/V Aldo w/radio check 1930 4072 Cincinnati cllg WGK St.Louis
1455 2198 USSstates cllg WOX New York 0620 2782 R.Mackland cllg WJG Memphis
1418 2198 Queen Mary cllg WOX New York 0640 2350 Atlantic Trader cllg Cape May
1217 2783 CaptFredie cllg The Blarney 0655 2782 Tug Ace cllg WGK St.Louis
0750 2366 Tug WT.Grant cllg WOU Boston 0715 2782 Tug BillyBoy cllg WGK St.Louis
0620 2782 Tug T.Moore cllg WOU Boston 1810 2198 Tanker St.Paul cllg WOX N.Y.

DXing PTT STATIONS

Tnx DSWCI

PTT means Post-Telephone-Telegraph and are stations operated in the international services of the PTT administrations of the different countries. Most of these are on frequencies allocated especially for them The more important bands are;

Table with 3 columns of frequency ranges: 4750-5480kc, 5730-5930, 6765-7000, 7300-8195, 9040-9995, 10100-11175; 11400-11700kc, 11975-12330, 13360-14000, 14350-14990, 15450-16460, 18030-19990; 20010-21000kc, 21750-21850, 22750-23200, 23350-25070, 25100-25600, 26100-28000

If you have listened to such stations you will get the idea of following exempld test announcements commonly sent out...

"This is a test transmission by SSB, operated by the overseas telephone service of Deutsche Bundespost, Frankfurt, Germany."

"This is a test transmsiions for circuit adjustennet purposes made by a station of the Radio Coporation of Puerto Rico, located at San Juan."

"This is a USArmy radio station Alpha Charley Echo, Located at Fort Allen, Puerto Rico broadcasting for receiver tuning and station identification purposes."

"This is a test transmission from a Moscow radiotelephone station"

"This is a shortwave station of the Compania Internacional de Radio, Buenos Aires, Argentina testing for receiver adjustment."

"This is a transmission fer circuit adjustment pyrposes from a radio station of the Venezuelan Government, Caracus, Venezuela."

To get verification from such stations, send your report to the institution and address mentioned in the announcement. Always enclose and IRC for return postage and to be sure of QSL, send along a prepared card which can be signed and sent back to you. One of the most importnat things re reports to these stations is that you DO NOT at anytime, in any way refer to any message you might have heard. Doing so is against the law! Too, you can almost be certain you will not receive your QSL.(Pete Scholtzel)

...and that wraps up another NASA Shortwave Center section for time being. Hope you find something of interest in it and that you will report/support next months. Have a good month of luck, fun and vacation...also happy listening/DXing. 73,

Bill E.

Recent QSL data from here: Voice of Nigeria card, 11900, in seven days; Polskie Radio, 15120 in four weeks; Radio Moscow, 7330, in three weeks; CBN, 6160, ten days; TWR-Bonaire, 9740(test) in seven days; Radio Budapest, 9833, three weeks; CHNX, 6130, seven days; CJCX, 6010, two weeks; KGEI, 15240, three weeks. VOA has not QSL'd five reports dating as far back as January. Mike Lee.



Radio Canada sent new card, CKYU/9625. More FB than old. Is quite colorful and appropriate. Tin Davisson. (Attention: Bill Sparks! I did send report to Mauritania in French and w/IRC's; Still no QSL!) Radio Mogadiscio, 7160, sent card in eleven days; ORU, 7140, card in eight months. Now have 100 countries verified! Serge Neumann. (How many logged? Ed.) Two QSL's added to collection...one from HCJB, 17890 and one from Radio Canada, 5970. Both are new ones from these stations. Ambrose Maxim. Latest QSL's here are from Radio Ghana, 11800, in 68 days; WBS in 70 days; NHK Japan 11780, 97 days. Brings my total up to 31 for SWBC. Frank Domineske. Mogadiscio-Somali Republic QSL'd w/card in three weeks; Radio Wewak, New Guinea sent card giving no data except date of report and signature; Letter from Pekan-baru, Sumatra, Indonesia for report sent in December '64. Frank Peters. Slow doings QSL-wise here of late; Only two to report..CKNA/CBC 5970 after two months and Radio Peking 7035 three and a half months. Phil Zucchi. (Latter via slowboat! Ed.) A QSL was received from Radio Rabaul-VL9BR, 3385. It is the same folder type sent out by Radio Wewak,*but with appropriate station name/address. Verification data on it is more complete than on Wewak folder however.(*See last months QSL Report.) Also rcvd letter verification from Radio Pyongyang, plus picture postcard QSL with complete data on it for reception of the new 14520 freq. Included were some Korean stamps and a second picture postcard. The letter mentioned they had not rcvd my two previously submitted reports. It thus appears the main problem on getting QSLs from North Korea is getting report there due to lack of direct mail service from US to that country. Only other veri to report at this time is card from YVMM, Radio Coro. Bill Sparks.

 NASA SWBC SCOREBOARD

REPORTER	HIC	VIC	PRIZED QSL TO DATE
Ray Fansler, Illinois	107	63	Radio Iraq
Mike Lee, APO-New York	63	35	?
Tim Davisson, Ohio	81	57	Radio Togo
Gary Fredricks, Oregon	57	37	Radio Brunei
Phil Zucchi, Mass.	51	42	Radio Tirana
Tim Hartmann, Mo.	53	32	Radio New Zealand
Gary Payne, Calif.	37	29	?
Rick Warner, Oregon	39	33	Radio Brunei
Jack Page, Miss.	31	24	Voice of Israel
Frank Domineske, Pa.	?	31	?
Serge Neumann, Calif.	?	100	?
Ambrose Maxim, Maine	23	2	?
Bill Eddings, Pa.	119	103	DZB2, Philippines

**Since these listings are not connected in any way with contests or awards, but are more or less a "running account" of the number of QSL's you have rcvd to date, you may include all (SWBC) so long as they were sent you for a report submitted to a station. However, in answer to questions from certain members, it should be pointed out that an official verification is one that contains the date, time and freq of your report sent to the station. Also, you will note the diff QSL's listed as the most prized...What is yours? and why? Most SWLs/DXers have their own reasons for choosing that they deem their best; Some because its from the most distant country/station, some because of low power used by station, some due the fact they have visited the particular country, others because it was their first QSL. So send in your QSL totals and mention your favorite most prized: Tnx!

Special Report

WCNA

"ATMOSPHERIC DISTURBANCE or UPSET APPLICART"

by Sam Rowell

Special Report

WCNA

Above conditions, of severe nature, were noted here June 15-16-17, similar to same during sun-spots of former years. On the 15th-16th, Northern and Central Europe was completely blacked out, day and night...even the strong stations like BBC and ORTF were unheard. Only one that was heard from Central Europe was Radio Nederland, via its relay at Bonaire*which was exceptionally strong 0130-230 and 0400. RNE Madrid on 6130, RNE Canary Islands on 11800 and Radio Portugal were fair at 0300. On the west, Japan, China and Siberians were all missing, even powerful Petropavlovsk on 9540 faded out (QSB'd) at 0630. However Radio New Zealand on same freq was good at 0700 while Radio Australia was just fair on 9570 at same time. On the other hand, most all Latin Amer. were strong just as in winter DX season. Africans and mid-East were not heard...even the "Kiss Me Honey" and Radio Peyke on 11695 were missing.

So it would seem this disturbance effected mainly the northern zones and mid-Pacific areas. And it might be mentioned that during this period there were snow storms in Utah and Montana, tornado's in northern Colorado (first time ever there!).

Yes, something sure upset the applicart in the stratosphere during this period!

*This is one case where Radio Nederlands relay pays off sofaras Central and Northern Europe are concerned into the U.S.A. and LA areas.

-30-

REPORT ON DX PARLIMENT, 1965

by Bob Newhart/Sweden

This years DX Parliment, at Tyleback, near Halmstad-Sweden, was considered to be the best/most successful yet by the majority of participants. Besides DXers from Sweden Norway, Finland, Denmark, there were seven from Holland and one from Greenland in attendance. Too, representatives from the following radio stations were present; RBI, Radio Prague, Radio Nederland, Radio Norway, Radio Sweden, Radio Finland, and Polskie Radio. Among the items discussed, which would be of interest to non-Scandinavian DXers were such as; compilation of a new countries list, one not being as controversial as present DX Alliansen list in which the USSR is counted as two countries because it is in two continents, but not Turkey or Panama, etc. This list will be accepted as the official throughout Scandinavia (perhaps in time throughout the entire realm of the DX world) and will replace the DX Alliansen list, plus that of the DX club of Finland and one which was in process of being prepared by DX Listeners Club, Norway.

Also discussed was the possibility that the Sveriges DX Riksklubb would combine with one of Swedens other larger clubs, with the intention of eventually eliminating the small clubs in Sweden.(It is sed there is one club in Sweden with only one member!)

Other discussions centered on such as topics regarding the SINFO code as compared to the SIMFO, and about Arthur Bear/ISWC.

Foreign visitors are especially welcomed to these parliments and are given assistance if they have language problems. Next years meeting will be in Stockholm, Sweden. 30 (For special programs on DX Parliment, tune Radio Nederlands DX JukeBox!)

QSL ALBUM SERIES NOTE

via Ambrose Maxin

Radio HCJB, Quito-Ecuador plan a series of QSL/verification cards beginning with the first picturing its new hydro-electric plant. New cards will then be issued each of succeeding months. Requirements for these QSL's are as follows:

Date and time program(s) heard, name of station, time-GMT, Frequency in megacycles or meters, name of program(s), and details about at least three things heard during program(s). Return postage is not required, but is appreciated. If you want your QSL sent via air-mail, 3 IRC's are required.

(Tip: Program of interest to SWLs/DXers is the "DX Party-Line" heard on the first and third Mondays of each month at 0230GMT on 6050//9745, 11915, 15115 and 17890.)

*

.....Say you saw it in FrenDX! Say you saw it in FrenDX!.....

LOGGINGS

+

REPORTS



ALL GMT

GMT

0000 15050 Radio Libertad s/on ID "This is an International SW station, the anti-communist voice of America." (given in Eng and Sp) then into prog in Sp. QTH given as Caracas, Venezuela. (Fredricks)(Fansler)

11820 Radio Peking with Eng news. (Fredricks)

11800 RNE, Canary Islands IS and s/on in Spanish. (Fansler) Radio Nederland IS hrd on this same freq or approx, under the RNE at same time. (Fansler)

11755 HCJB in Portuguese to SA on Sat & Sun 0000-0030. (Rowell)

11740 Vatican Radio to ECNA w/Eng 0050-0105. //7250, 9645. (Rowell)

9515 XEWW, Mexico City 0000-0500 in Spanish. //6165 (Rowell)

4870 Radio Tropical, Venezuela w/mx, lots of ads in Sp. (Lee)

4990 YVMQ, Venezuela w/Sp ads, amts and mx. (Lee)(Wilt)

9795 Radio Prague s/on in Portuguese (Drew)

7180 Radio Kiev, USSR in Eng to NA. (Wilt)

9755 ORTF, Paris s/off in Port. after Fr lesson, then into Fr prog. (Zucchi)

9700 Radio Sofia in Eng to NA. (Zucchi)

9575 RAI, Rome with Eng news. (Zucchi)

15410 BBC, London with news and commentary, world review 0015. (Page)

6178 Radio Difusora de Colombia, Bogata w/operatic songs in Eng. Sports news in Sp at 0035. (Peters)

5875 Voz de Honduras, Tegucigalpa w/news in Sp. (Peters)

9605 TWR, Bonaire w/Sp news....0025 s/off. (Balbi)

0100 9535 RBI xmtr on this freq. Hrd IS and s/on at 0140 in Italian. Can anyone give me further info? (Neumann)

9833 Radio Budapest powerful, in Eng. Hrd 0140. (Neumann)

5935 Radio Havana evidently on this new freq. Hrd in Eng at 0120. Anyone else hear? (Neumann) Apparently not Serge, at least nobody reported it, but Rowell and Balbi and a few others have mentioned Castro popping up on many diff freqs at times, then moving agn. Ed.) Might also add that this station makes so many frequent freq changes that its impossible to keep keep track/up-to-date with them.)

9615 RNE, Madrid in Eng. Hrd 0115-0130 w/prog of Sp history. (Page)

9770 Austrian Radio w/ID in assorted langs, then mx. (Webber)(Zucchi)

9535 SBC, Berne w/regional and world news 0125. (Zucchi)(Zecchini)

9360 RNE, Madrid in Sp to LA 0135. (Zucchi)

11905 RAI, Rome s/off in French. Vry good sigs. 0125. (Zucchi)

7140 BBC, London w/Eng by radio for Spanish listeners. 0145. (Wilt)

6130 RNE, Madrid in Eng. QRM'd by AFRTS on 6135. (Drew)

6085 ZYK2, Recife, Brazil in Portuguese. 0115. (Drew)

9660 Radio Beirut, Lebanon w/news in French 0150. (Lee)

9590 Radio Nederland via Bonaire relay. 0130 new time. (Hartmann)

17840 Radio Australia to NA 0100-0345. //15220. (Rowell)

11905 RAI, Rome w/IS, s/on into Eng prog. (Stober)

6010 YSS, El Salvador w/Sp ID 0130. (Fansler)

11990 Radio Prague s/on in Eng to ECNA. (Fredricks)

0200 4890 YVKB, Venezuela w/mx. 0230. (Fredricks)

7160 Mogadiscio, Somali Rep. hrd w/Arabic 0240, Eng 0245. (Fansler)

11940 AIR, India noted w/Far East mx and talks. (Fansler)

11925 Radio Bandeirantes, Brazil in Port and w/mx-songs 0230. (Stober)

11805 Radio Sweden to WCNA has Eng 0315. (Rowell)(Weaver)

cont'd.,.

- 0200 5980 OBX4M, Radio Panamericana w/pop music 0214. (Sparks)
 6095 ZYB7, Radio Dif. Sao Paulo, Brazil w/pop mx, Eng vocals.0240 (Sparks)
 11920 RBI, Berlin w/Sp to LA 0245, then into German 0300. (Sparks)
 9520 Radio Denmark 0200 w/mailbag and request prog in Eng. 13/VI.(Lee)
 9615 RNE, Madrid w/prog of Sp mx, Eng annts. (Wilt)
 11720 CBC, International service with prog of pop mx. 0245. (Zabot)
 9645 UN Radio s/on 0225. QRM'd!! by RNE. (Zucchi)
 17840 Radio Australia w/mx and news 0250. //15220. (Zucchi)
 9590 Bonaire w/Radio Nederland relay. Some QSB. (Page)
 9710 Lebanon, Beirut in Eng w/mx and news 0235. Into lang at 0300. (Page)
 9685 Voice of Free China w/news report, then tribute to a countryman.(Martino)
 9770 RBI, Berlin w/anti-US propaganda and classical mx. //11920 but not hrd here as yet to date. 0245-0315. (Payne)
 11940 UAR, Cairo w/ID, chines...Arabic prog. (Balbi)
 11880 RBI, Berlin w/Eng news 0230...QRM'd by XEHH. (Balbi)
- 0300 9570 Radio Bucharest with Eng news..also at 0430 //9500 QRM'd.(Balbi)(Zucchi)
 11745 UAR, Cairo sign on with Arabic ID. (Balbi)
 11925 VOFK, Seoul with news and prog about arts in Korea. (Martino)
 7160 Radio Somali, Mogadiscio hrd w/Eng nx 0345...s/off 0400.(Neumann)
 9550 Radio Nac. Del Peru, Tumbes, w/opera mx-songs in Sp. (Peters)
 15220 Radio Australia w/North Amer. Mailbag. (Page)(Zecchini)
 9540 Radio Budapest with news in Eng. 0305. (Zucchi)
 11910 HCJB, Ecuador with "Gospel Echos". 0315)Zabot)
 6005 CFCX, Canada with talk about Canada. (Zabot)
 5930 Radio Prague with Eng to NA. (Zecchini)(Payne)
 11790 WRUL has Sp to LA at 0315. (Drew)
 17745 Radio Pakistan in dialects to SEAsia. 0345-0445. (Rowell)
 17840 Radio Australia with music and news. (Lee)(Weaver)
 6205A TGFP, Radio Nac. Tikal still here. Hrd w/LA mx 0315 12/VI.(Sparks)
 5075 Accion Culture Popular, Colombia s/off 0315 //5095. (Rowell)
 15125 VOFK, Seoul w/Eng lang General Service. Correct call for this station is HLK6. Has Sp to LA at 0330. (Stober)
 15480 UNIDENTIFIED hrd here several times at 0330 w/IS-tone(not s/on because they are already there!) Could this be Erevan? (Fansler)
- 11750 FEN, Japan. Hrd w/news under BBC. (Fredricks)
 7305 Radio Budapest in Eng to NA. (Fredricks)
- 0400 9655 SBC, Berne s/on 0415 w/SW Merrygoround 0445 oh Sat.s/off0515 (Fredricks)
 11780 Radio New Zealand broadcasting soccer game. (Fredricks)
 9610 VLW9, Perth w/soccer game and horse race results. (Fredricks)
 4945 Radio South Africa at 0430 w/music, ads, news in Eng. (Fansler)
 9700 Radio Sofia s/off in Eng 0430 then into Sp. (Fansler)(Zucchi)
 11720 Radio Canada, de Montreal with prog "Stampede" (Stober)
 11825 Radio Tahiti, Papeete w/island music 0445. (Stober)
 11865 Radio Havana in Fr 0430, Eng 0500. Anned as on 11855, but was actually 10kc higher. (Stober)
 6045 Radio Universidad, XEXQ 0430-0500s/off, prog of classical mx.(Sparks)
 9555 TWR, Bonaire w/religious prog in Slavic lang. QRM. (Sparks)
 17855 AIR, Delhi w/Eng 0430-0440 to East Africa and Mauritius.//15130. And at 0415-0430 on 17760 to same area in Gujarati.//15130. (Rowell)
 11805 Radio Sweden s/on at this time w/Sp for SA. (Drew)
 9525 Radio Austria, Vienna in German. Badly QRM'd. (Drew)
 11930 RBI, Berlin s/on in Eng to USA at 0445. (Drew)
 4916 Radio El Trebol, Ecuador hrd 0445 w/LA mx. ID abt evry 10min. (Dexter)
 4855 Radio Nieva, Colombia w/LA programming. 0415. (Dexter)
 9660 Radio Liberty w/tine pips and prog in lang. QRM. Rarely hrd WCNA(Neumann)
 9535 Radio Switzerland s/on in Eng 0415. (Neumann) //9655 (Payne)
 9610 Radio Norway in Eng 0410. Good sigs. (Neumann)
 9370 RNE, Madrid in Sp 0405. QRM. (Neumann)
 6115 Radio Luz, Peru in Spanish 0410.)Rowell)

cont'd...

- 0400 9555 Radio Nac. El Salvador w/VOA tape in Sp 0430. (Rowell)
- 9600 Radio Presidente Balmaceda, Chile IDing in Eng and Ger. (Rowell)
- 6090A VOA, Greenville with prog in Czech 0445. (Page)
- 11920 RBI, Berlin s/on in German 0415. (Zucchi)
- 0500 4980 Radio Ghana hrd on new freq in native lang 0530-0645 10-12/VI. (Balbi)
- 9730 Radio Brazzaville at 0515 w/ORTF Eng nx //11725. (Balbi)
- 4775 Angola hrd in Port 0535. (Balbi)
- 11900 ORTF, Paris with Eng nx 0515. (Balbi) Same relayed by R. Braz ? Ed.
- 9562 Radio Nac. de Peru in Sp now s/off at 0530. //6082. (Rowell)
- 6140 Radio Tahiti 0500-0515 w/island type mx, Fr amts/IDs. This stations sig often better here than Havana's. (Payne) Hrd 0550 in Fr. Gud sigs (Seager)
- 6200A UNIDENTIFIED station using cw, repeating VT08 UM9. Hrd several nights 0530-0650. Any ideas? (Payne)
- 6115 UNIDENTIFIED station in Fr s/on at 0515 w/nx. QRM'd by R. Mil (Peters)
- 6030 UNIDENTIFIED station in Fr s/on at approx 0500. Not hrd often due QRM de VOA on 6035. (Peters)
- 6115 Radio Union, Lima, Peru w/instrumental mx 0545-0556 s/off w/anthem. This station seems also to ID as Radio Luz at times as well. (Dexter)
- 6085A Radio Kaduna, Nigeria w/Eng news at 0530. (Wilt)
- 15160 Radio Ankara w/Turkish programming. (Drew)
- 9730 RBI, Berlin s/on in Arabic 0530. (Drew)
- 9555 XETT, time sig station w/time sigs and commercials. (Sparks)
- 9545 XEFT, Veracruz, Mexico w/pop music. (Sparks)
- 11925 RBI, Berlin at 0545 w/Eng to WCNA hrd 11/VI insted of usual 11930. (Sparks)
- 11825 Radio Tahiti w/Fr news and native music. Hrd 0530-0600. (Hartmann)
- 11905*ORTF, Paris w/Eng nx bulletins 0515-0530. //11725. (Rowell)*New freq.
- 11710 DW, Cologne, Germany in Arabic to Near East. (Rowell) //9530.
- 5960 La Voz de Bogota s/off 0530 in Sp w/anthem. (Rowell)
- 5020 Transnissora Caldas. HJFW, Colombia w/LA nx and amnts in Sp. (Stober)
- 4945 Radio South Africa w/comm service via Springbok xnter. Eng nx 0530 (Stober)
- 4870 Radio Dahomey, Cotonou w/Eng lang lesson. (Stober)
- 6095 Radio South Africa w/talks, mx and news...all Eng. (Fredricks)
- 9735 Deutsche Welle in Eng w/nx and commentaxy re Ger/Yugoslavia. (Fredricks)
- 9640 VOFK, Seoul w/Eng nx, then questions-answer prog 0515. (Fredricks)
- 0600 9660 VLQ9, Brisbane w/news, then nx at 0605. (Fredricks)
- 9680 VLR9, Melbourne w/talks and music 0615. (Fredricks)
- 6080 Radio New Zealand w/news, then "New Zealand Hit Parade" (Fredricks)
- 4915 Radio Ghana w/prog in Eng. (Fredricks)(Payne)
- 9520 ABC, New Guinea, Port Morsbey w/sports prog. (Hartmann)
- 18195 Radio Pyongyang, N.Vietnam in French. 0605. (Seager)
- 7115 Radio Free Europe w/Hungarian prog. (Drew)
- 15115 Radio Free Europe with prog in Rumanian 0640. (Drew)
- 4945 Radio South Africa continuing comm service. //6150. (Balbi)
- 6015 Radio Abidjan s/on ID 0630. Hrd irregularly //11820. (Balbi)
- 11740 Vatican Radio, HVJ, w/religious prog. (Balbi)
- 11920 DZF2, FEBC, Manila w/test prog in Eng. 0630-0800. Hrd 1/VI only. (Balbi)
- 0700 5975 Dakar, Senegal hrd here 7/VI only, then back on 5960. (Balbi)
- 11960 VOA, Monrovia s/on w/UN news in Eng. (Drew)
- 6125 VOA, Greenville/prog in Amharic 0730. (Drew)
- 9560 Radio Nederland w/Dutch to Pacific area (Drew)
- 6140 Radio Tahiti w/Fr programming, native nx. s/off 0800 Sun. (Drew)
- 9710 AFRTS, New York w/Special Gemini-4 prog. (Drew)
- 11920 FEBC, Philippines w/religious prog 0700, then nx 0730. (Rowell)
- 15210 AFRTS with Eng program. Fair sigs 0730. (Seager)
- 9540 Radio New Zealand in Eng to Cook Islands. 0745. (Hartmann)
- 5047 Radio Lome, Togo hrd 0725 in Fr w/folk mx. (Rowell)
- 11940 Radio Malaysia, Singapore in Eng 0735-0750. (Rowell)
- 11850 Radio Norway 0745-0815 in Norse to near East and Asia. (Rowell)
- 5960 Radio Senegal, Dakar w/ID 0700 and IS (drum beats, then nx Fr. 12/VI (Rowell)

cont'd...

- 0700 9420 South Korea, UN Command w/Eng ID 0715, then into Korean (Rowell)
- 4890 VLT4, Papua, New Guinea in Eng w/mx 0745. (Fredricks)
- 0800 15195 Radio Japan s/on in Eng //15310, 9505. (Fredricks)
- 3995 VQ04, SIBS w/news in Pidgin Eng 0815.(Hartmann)(Seager)
- 3205 VQ03, SIBS w/Eng 0859. Poor sigs. (Seager)
- 17875 Radio Japan w/Eng to Europe 0815. (Drew)
- 5970 CBC w/progng to Pacific //9625. (Balbi)(Zecchini)
- 9640 VOFK, Seoul has Eng nx 0830. Formerly 6015. (Balbi)
- 9755 Radio Malaysia, Kuala Lumpur w/Eng nx //11900 irr. (Balbi)
- 11785 DW, Cologne hrd 0803 w/ID in Hindi to Far East. 2/VI. (Balbi)
- 0900 6160 CBUX, Vancouver hrd w/extended sked. Irregular and QRM'd. (Balbi)
- 11905 AFETS, New York s/on. Spec prog on Gemini 4. (Drew)
- 11775 VOA, Honolulu s/on in Eng w/Report to S.Asia. (Drew)
- 2410 VL9CG, Radio Gororka weak at s/off. (Seager)
- 4890 VLT4, Port Moresby w/Eng. (Seager)
- 4920 VLM4, Brisbane w/Eng. (Seager)
- 1000 9685 BCC, Taiwan in English. Good sigs. (Fredricks)
- 11905 Kol Israel testing to Europe, s/off //11910,11750,11760,11755,11915, on different days. Tests from 0800-1000. (SCDXers)
- 6050 R3I, Berlin w/Eng news. (Weaver)
- 15110 ORTF, Paris hrd w/Eng news 1020. (Zecchini)
- 1100 9755 VTVN, Saigon in Fr. In Eng 1200-1300. ID's as "Radio Vietnam"(Balbi)
- 5052 Radio Malaysia, Kuala Lumpur in Eng. WRH lists as Sarawak, but station ID's as K.Lumpur!)(Drew)
- 11750 FEN, Tokyo w/"Whats my Line" 1130-1200. (Fansler)
- 5035 Radio Malaysia, Singapore hrd 1115 w/mx, nx, lang lesson. (Fredricks)
- 1200 9580 Radio Australia s/on in Eng to ECNA 1215. (Fredricks)
- 15090 Radio Peking hrd 1235 w/political-mad commentary, chinese folk mx.(Lee)
- 11835 4VEH, Haiti w/religious mx 1230. (Zecchini) then Eng nx (Zucchi).
- 9580 Radio Australia w/ "Mailbag" in Eng (Sun) hrd 1240. (Zucchi)
- 9640 VOFK, Seoul, S.Korea in lang. Strong sigs. (Balbi)
- 9600 Radio Tashkent good in Eng. (Seager)
- 1300 6500A Radio Peking on new freq with Eng nx //9650,11860,15060.(Balbi)
- 6030 DZH6, Manila, FEBC w/religious prog in Eng. (Balbi)
- 3910 FEN, Tokyo w/Eng nx 1300-1315, then wx forecast for araes of Japan. (WRH sez power lkw!)(Payne)
- 1400 11940 Radio Malaysia, Singapore in Eng w/talks, "Sing along", mx,nx.(Fredricks) Hrd from 1430 to 1630 s/off.
- 15220 Radio South Africa in Eng w/talks abt Africa, nx. (Fredricks)
- 4950 Radio Malaysia, Sarawak in Eng w/nx and commentary //5052. (Fredricks)
- 4865 Radio Brunei in Eng w/YL anncr, US pop mx. 1415. (Fredricks)
- 6085 AIR, Delhi w/variety prog 1435. (Drew)
- 11930 Radio Sweden s/on in Eng to S.Asia. Anncd as on 11915. (Drew)
- 15240 Radio Sweden in Eng to ECNA. (Zucchi)
- 17825 Radio Prague hrd w/unID lang (Zucchi)
- 9580 FES,BBC Malaysia s/on in Eng 1430 //9725,11955. (Balbi)
- 9600 Radio Tashkent w/Eng nx //11925 which is QRM'd. (Balbi)
- 9752 Radio Pyongyang w/Eng nx hrd new time 11/VI. (Balbi)
- 7315 Radio Malaysia, Kuala Lumpur on new freq w/Eng nx. (Balbi)
- 9760 Hanoi, N.Vietn w/Fr nx //9830,11760. (Balbi)
- 1500 11740 HWJ, Vatican City w/Eng nx //15120. (Balbi)
- 15130*BCC,Voice of Free China, Taiwan w/Eng nx 1530. //9720. (Balbi)*new Freq
- 9505 DZH, Manila(sorry..this in wrong time slot..see under 1600. Ed.)
- 11855 Voice of the Orient, Philippines w/religious prog in lang 1545.(Rowell)
- 11830 Hanoi, N.Vietnam in native lang and w/piano mx 1545. (Peters)
- 15175 Radio Norway in Norse hrd 1515. (Zucchi)
- 11740 Vatican Radio in lang to Europe at 1530. (Zucchi)
- 17765 Radio Moscow in Eng to Africa. s/off 1600. (Zucchi)

- 1500 11795 Deutsche Welle hrd 1540 s/off in Eng. (Zucchi)
 11910 HCJB w/Gospel prog hrd 1520. (Zabot)
 6070 CFRX, Canada with musical prog hrd here (Zabot)
 15210 BBC, London with talk about Royal Navy. 1510. (Zabot)
 11900 Radio Kaduna, Nigeria hrd w/Eng programming 1530. (Wilt)
 7320 Radio Malaysia w/Eng prog. Kuala Lumpur new freq. (Sparks)
 6075 Radio Ceylon, comm. service w/mx and singing. (Drew)
 15270 RFI, Berlin in Eng w/ID, freq, nx 1530. //11795. (Fansler)
 11760 Hanoi, N. Vietnam w/nx in Eng at 1530. //9830,9760. (Fredricks)
- 1600 9570 Radio Australia w/prog of SA nx at 1630. (Fredricks)
 15175 Radio Norway in Eng w/tourist info re Norway hrd 1610. (Lee)
 15115 HCJB, Quito s/on with prog in Russian. (Zucchi)
 11815 Radio Japan, General Service in Eng. (Peters)
 9505 DZH, Manila, FEBC w/Eng religious prog to India. (Balbi)
 15130 BCC, Taiwan with chinese prog 1645. (Balbi)
- 1700 11738 XEMP, Mexico now being hrd here around this time, irregularly. (Rowell)
 11730 Radio Nederland has Arab prog 1730-1850. May be reason R.Iran moved from this freq recently. (Rowell)
 11733 Radio Iran now here w/European Service, 1730-2130; Russian 1730-1800, Fr 1800-1830, Arabic 1830-1930, Turkish 1930-2000, English 2000-2030, Persian 2030-2130. Note that when progs end early, the "clunk-clunk" is put on until next prog starts. (Rowell)
 11855 FEBC, Manila in Eng 1730-with complete station data prior to sign off at 1735. (Fredricks)
 11815 Radio Japan s/on w/nx in Eng //9740,9505. (Fredricks)
- 1800 15175 Radio Norway with "Mailbag" in Eng hrd on Sun. s/off 1830. (Fredricks)
 15130 ORTF, Paris with prog in Eng. s/off at 1830. (Fredricks)(Balbi)
 11690 Radio Moscow with "Mailbag" in Eng on Sun. //11750,9540,9730. (Fredricks)
 9605 Radio Japan s/on in Eng //9505. (Fredricks)
 15100* Radio Cairo, UAR in Arabic. S/off varies 2330-0030. (Rowell)*new freq
 15110 Radio Kiev in Swahili to Africa 1830. (Rowell)
 15165 Radio Denmark in Danish to South Africa 1830-1930. (Rowell)
 9725 RFI, Berlin in Eng w/nx, commentary, nx. 1830. (Lee)
 17740 Portuguese Radio w/Eng prog 1800-1845. Is not VOW! (Wilt)(Zecchini)
 11755 Vladivostok, USSR in Russian 1845. (Rowell)
- 1900 15100 UAR, Cairo on new freq in Arabic. S/off 2300. WIBS QFM. (Balbi)
 15100 WIBS, Windward Islands s/on Eng nx 1950, has BBC nx 2000. S/off 0000 (Balbi)
 9535 SEC, Berne with "Swiss Merry-go-round" 1935. (Zucchi)
 9833 Radio Budapest w/Mailbag in Eng to UK 1950. (Zucchi) 12/VII
 15160 ORTF, Paris in Portuguese(?) hrd 1925. (Zabot)
 9915 AIR, Delhi w/nx and nx, commentary in Eng. hrd 1954. (Lee)
 15290A Radio Clube de Mozambique w/classical mx, Port annmts. (Wilt)
 15150 RAI, Rome on new freq w/prog in Arabic at 1930. Dont confuse this with Kuwait also listed this freq! (Sparks)
- 2000 17860 ORU, Belgium in Flemish 2030-2100 s/off. (Rowell)
 11730A Radio Iran in Eng w/nx commentary. s/off 2030. (Lee)
 11735 Radio Morocco, Tangiers w/tourist info in Eng. 2045. (Lee)
 9740A Radio Ghana to NA w/nx of Africa and nx, talks. QFM'd. (Davisson)
 9009 Kol Israel with Eng news hrd 2052. (Lee)
 11955 Radio Nederland with "Mailbag" in Eng. Sun. (Zucchi)
 9475 UAR, Cairo in German to Europe. 2030. (Zucchi)
 9510 Radio Bucharest in English to Europe. 2025. (Zucchi)
 7300 RFI, Berlin s/off from Eng to Europe. 2045. //9730. (Zucchi)
 7125 Polskie Radio, Warsaw with English to UK. 2055. (Zucchi)
- 2100 11800 Radio Ghana, Accra w/Listeners Choice-nx to Europe and UK. 2115. (Zucchi)
 9530 DW, Cologne w/East Asian Service in Eng. 2140. (Zucchi)
 11730 Radio Nederland to NA in Eng. (Davisson)
 7345 Radio Prague s/on in Port 2130. (Drew)

cont'd...

- 2100 6160 Radio Algiers, Kabyl, in lang(Arabic?) at 2145. (Drew)
 9545 Berne, Switzerland, SEC s/on in Eng to Australia. (Drew)
 7090 Radio Tirana, Albania in Eng w/political commentary. (Lee)
 11905 RAI, Rome w/Eng news concerning Italy. 2120. (Zucchi)
 9625 Israel w/ID "You are tuned to Kol Zion, Jerasalem" //9009. (Zucchi)
 9620 ORTF, Paris in unID lang, but w/Fr ID. (Zucchi)
- 2200 11915 UAR, Cairo in Eng w/anti-British commentary. (Zucchi)pop nx 2220 (Fansler)
 9775 Radio Austria in German. (Zecchini)
 4890 Radio Senegal, Dakar in French hrd 2235 //764mw. (Drew)
 11850 Ulan Bator, Mongolia(tentative). Hrd weakly w/Eng and nx 2220-2230. No ID
 hrd. Mx was western type, not FE. (Fansler) Quite sure you are right! Ed.
 11920 RBI, Berlin w/Port.,Ger.,Sp. to LA. 2200-0300. (Rowell)
 15160 Radio Ankara, Turkey in Eng 2200-2230. (Rowell)
- 2300 15175 Radio Norway in Norse had special amt in Eng requesting reports.(Zucchi)
 9535 SBC, Berne in Spanish to SA. 2330. (Zucchi)
 11760 CBC, Montreal w/Radio Canada SV Club. s/off 2330. (Zucchi)
 11990 Radio Prague w/Sp programming to ECSA. Hrd 2340. (Zucchi)
 11745 UAR, Cairo with native prog. Hrd 2310. (Zecchini)
 5990 CBC, Canada hrd 2345 w/"old time" music-recordings.(Zabot)
 4926 Radio Ecuatorial in Sp. S/off 2330. (Drew)
 15295 Deutsche Welle in Spanish hrd 2330. (Drew)
 5970 RBI, Berlin in German. S/off 2330. (Drew)
 11795 RAI, Rome in Italian to LA. (Rowell)
 15380 Radio Nederland on new freq. hrd w/Eng nx 2345 10/VI (Balbi)
 11880 XEHH, Mexcio in Sp w/nx. Hrd 2330. (Fredricks)

*****NASA SWBC REPORTERS FOR THIS MONTH*****

Sam Rowell, Washington	Bill Sparks, California	Ernie Zecchini, Massachusetts
Gary Fredricks, Oregon	Dan Wilt, Ohio	Ray Fansler, Illinois
August Balbi, California	Frank Peters, Illinois	Mike Lee, APO-New York
Peter Drew, Australia	Gary Payne, California	Tim Davisson, Ohio
Bob Zabot, Virginia	Tin Hartmann, Missouri	Jerry Hartweg, Michigan
Ron Seager, New Zealand	Gerry Dexter, Wisconsin	Phil Zucchi, Massachusetts
Ron Weaver, Pennsylvania	F.Martino Sr.,California	Serge Neumann, California
Joe Fela, New Jersey	Don Jensen, Wisconsin	Frank Domineske, Pennsylvania
Ambrose Maxin, Maine	Robert Newhart, Sweden	Tin Lehtio, Finland
SCTXers	WRUL-DXWW	DXRA NNSB

Some of the named reporters are well known, others are not...but important thing is all have joined together cooperatively. It should also be pointed out that not all the loggings/reports are those considered to be rare or newsy, but that we give them space due fact certain DXers submitting them use receivers, some the transistor types, not par those of others...and we like to think an OM be judged, not by his equipment, but by his efforts and his interests in the DXing hobby, his cooperation with fellow DXers via reporting to the section(s) of the bulletins that are in line with his interests. The above list represents SWBCers in thirteen US states, four countries...We would be pleased to see it, in future, represent forty-three states and eleven countries as well as six VE provinces, encompassing all NASA SWBCers.

When submitting your loggings/reports, take a little extra time and add your HIC-VIC QSL totals for the scoreboard, mention your most prized/favorite QSL and why you deem it so; Report your latest QSLs telling how long it took to rcve it, the data it gave and what, if anything, the station sent in addition to the QSL (some are known to send pennants, picture post-cards, maps, flags, stamps, etc.) AND SOMETHING NEW! Leading up to what will be the first NASA SWBC popularity poll, mention your favorite SWBC station and tell why you consider it so. This will aid us in arranging programs from the stations in future. In summation, report all your SWBC doings...help make this section one of or THE best of any and too, always keep in mind that your integrity is most important, not only to the section, but to the club, the bulletin and the hobby. B.E.