The big news this week is that last week's issue (#5) turned out almost as well as we expected for a change! We are continuing to work closely with our printer and with any luck at all this issue should be even more improved. We have painstakingly used whiteout on all copy received this time and the general quality of all columns has improved also. We say ALL in hopes that Chuck's will arrive air expressed to the printer again as he had a hectic work schedule the week of 11/10.

This week in addition to the regular columns we have the long-awaited and officially revised-updated NRC Reprint List, courtesy of Pat Hartlage who labored more than a few hours to insure that all recent articles of merit were included. After being proofread by Gary and yours truly, we feel safe in stating it is 'deadly accurate and most current'. From this date forward please use only this current list in all orders to the new Publications Center manned by Ken Chatterton at P.O. Box 164, Mannsville, NY 13661.

Gary has been cleaning out the closets and wishes to advise the following past issues and/or volumes are available. We have one complete set of volume 46 and also volume 47 intact. These are available first come basis for the price of postage, $2.00 for each volume year. Also we have extra issues of volume 47 with the exception of #9 and #1, and extra issues of volume 46 with the exceptions of #1 and #27 if you need replacement issues. These are available for the price of postage for single issues- 15¢ for 24 pagers and 28¢ for issues 25-48 pages in size. Inquiries should be sent to the attention of Gary Atkins c/o HQ address.

As announced last week, the following get-togethers are planned in the near future:

Thanksgiving GTG Nov. 30, Noon to 6 PM hosted by Ray Arruda, 47 Burt St., Acushnet, MA. Call 'Rocket Ray' or write for additional details.

The Bay Area Radio Freaks (BARD) GTG is planned for Nov. 29, 11 AM to 6 PM hosted by Rich Segalas, 221 Boca St., San Francisco, CA 94110. Write Rich or call 415 641 8922 for more info.

The Chicago Area DXers (CADX) GTG is planned for Dec. 26-28 and again for Dec. 31 & Jan. 1. Out of towners needing accommodations or more info should contact Bob Kramer, 4639 N. Albany, Chicago, IL 60625 or call 312 463 4334.

The Southern California Area DXers (SCADS) are planning a GTG Feb. 14, 1981 including a receiver display and HAP auction. For details and map, send a SASE to SCADS, 16182 Ballard Lane, Huntington Beach, CA 92649.

CPC TESTS
12/2 WLET-1420 Toccoa, GA 0015-0045 ELT both dates. Program content to be polkas and march music along with voice and code ID's at 5 min. intervals. Also tone bursts of 50, 600 & 1000 Hz. Prior to these tests is the r/c, 0001-0010 W/1000 Hz. tones. Reports to: Jan J.
12/6 Bethke, Chief Engineer, WLET, 423 Prather Bridge Rd., Toccoa, GA 30577. Arranged by Karl Jeter/NRC.
12/14 WMOV-1360 Ravenswood, WV 0545-0600 ELT. This is regular check on second Sunday using 500 Hz. tones, but will probably add additional content for test. More details later. Reports to: Rex Osborne, WMOV, Box 647, Ravenswood, WV 26164. Arranged by Pat Hartlage/NRC.
Please keep your items to one side of the paper, neatly write or type, etc. Also, leaving a little space between 10:27 0226
tips helps it to come to cutting items into strips for frequency order. Deadlines are 0226
Saturday and type-up Sunday morning. Here goes:

**SPECIAL:**

1220 UNID

11/2 around 1800, station noted given repeated weather

1340 WMMI WI

MILWAUKEE - 10/27 0226 noted on new calls w/ID then

1410 WMMI IL

ELGIN - 11/2 1900 weak w/ID then nx, now on w/night

1420 WACK NY

NEWARK - Noted on fulltime w/500 watts day/nite.

1450 WJOL DC

WASHINGTON - Has been noted off the past 4 M's. (TB-DC)

1610 WKBX OH

CINCINNATI - 10/29 0315 Very weak signal noted w/an/

1740 UNID

10/25 1855-1900

2100 WBLI-960 w/TT

3100 WMMI WI

MILWAUKEE - 10/27 0226 noted on new calls w/ID then

**CHICKEN LITTLE WAS RIGHT!**

WMMI WI Milwaukee - 10/27 0226 noted on new calls w/ID then

WJMIL KS

WICHITA - 10/27 1055 weak w/ID then nx, now on w/night

WMMI WI

MILWAUKEE - 10/27 0226 noted on new calls w/ID then

WJOL DC

WASHINGTON - Has been noted off the past 4 M's. (TB-DC)

**WKKE**

11/2 around 1800, station noted given repeated weather

1340 WMMI WI

MILWAUKEE - 10/27 0226 noted on new calls w/ID then

1410 WMMI IL

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560 KZQ CO DENVER - 10/29 0030 g/d/500 watt Country, ID 56-KLZ (RI-IL)

570 WNWA SD JACKSON - 10/29 0009-0024 g/d/500 watt Country, ID 56-KLZ (RI-IL)

690 WAPE FL JACKSONVILLE - 10/30 0030 g/d/500 watt Country, ID 56-KLZ (RI-IL)

770 WNEW NY NEW YORK - 10/29 0030 g/d/500 watt Country, ID 56-KLZ (RI-IL)

800 CHAB OK OKLAHOMA CITY - 10/30 0026 g/d/500 watt Country, ID 56-KLZ (RI-IL)

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860 KORO TX SAN ANTONIO - 10/29 0026 g/d/500 watt Country, ID 56-KLZ (RI-IL)

900 WJJK NC KNOXVILLE - 10/29 0030 g/d/500 watt Country, ID 56-KLZ (RI-IL)

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This column is going together 11/10, and would you believe that were a Thunderstorm today? And the temp. is around 50. Strange.

For those who have any last minute items, I would suggest calling on Sunday AM. My phone # is 302-322-6586. I'm usually here til 8 PM when I run out of the house, both hands in the air, screaming!

Thanx to all for their tips! 73's, Good DX!

WKBW Radio 15
A Friendly Place

4VRD RADIO NATIONALE

Le 23 octobre 1980

M. Ernest R. COOPER
National Radio Club
5 Anthony Street
Provincetown, Massachusetts, 02657
U.S.A.

Monsieur Cooper,

Suite à votre lettre du 30 septembre dernier, nous sommes heureux de vous aviser que c'est bien la 4VRD RADIO NATIONALE que vous avez captée le 27 septembre, car les informations fournies concordent bien avec la grille de programmation de la Station.

Nous vous envoyons sous ce couvert le livret "A l'écoute de la 4VRD", livret qui vous donnera une large vue des différents programmes de la 4VRD.

Nous vous remercions bien sincèrement pour l'intérêt que vous portez à notre station et vous prions d'agréer, Monsieur Cooper, l'expression de nos salutations distinguées.

Alexandre Charles ABEILLARD
Directeur Général

le réseau éducatif haïtien

INTERNATIONAL DX DIGEST

Times are GMT. For ELT subtract 5 hours. Deadlines are usually Monday.

155 USSR Khabarovsk 10/28 1220 male w/talk s/male singer, was also 7799. (Vernon)
164 FRANCE Aloue 10/29 0450 male and female w/light talk between hits of mx, sig never strong (MW much better) //1350 and others.
173 USSR Kalingrad et al Program One 10/28 0640 mx very difficult to pick out, have a sort of fake carrier at 173 on my rx, can't get rid of it. (Vernon, last two)
173 USSR Yakutsk Program One 10/27 1238 harp mx, 1240 male, stn was not //783. (Vernon)
182 USSR unknown, Program One 10/28 0702 and was //April 030 EKS but could find a // to check at 0415, was not FF or //783. (Vernon)
182 USSR Petrovskov 10/27 1245 male singing, no // found. (Vernon)
191 USSR Blagoveshchansk 10/27 1236, no // found. (Vernon)
200 USSR Irkutsk Program One 10/28 1245 piano mx, male w/brief talk between selections, poor but good on //182, 236. (Vernon)
200 ENGLAND Droitwich 10/28 0550 tone every 10 seconds, noted w/Men of Health, then "Rule Britannia" mx 0555, faded before 0600, with many pipes. 10/28 0415 World Service Financial Program in EE. (Vernon)
209 MONGOLIA Ulan Bator tentative 10/29 1355 male w/talk, 1358 female to 1358:50, silence, six pips, then male and female w/Radio Moscow ID but no //, Talk sounded RR, no idea what Mongolian sounds like, Quite clear 1400+, taped report sent. Lots of beacon QRN, could find no USSR //, (Vernon)
236 USSR Magadan Program One 10/29 1345 piano mx //1005, very strong. (Vernon)
245 USSR Vladivostok Program One 10/29 1313 male singer //155 and 181. (Vernon)
612 AUSTRALIA Brisbane 10/16 female singing "Argentina" 1117, 1120 male ann at //771. (Vernon)
620 HAWAII KIPI Hilo 10/16 1017 // male o/flute mx, no anthem. (Vernon)
630 ALASKA KJNO Juneau 11/2 rr mx, 0900 ID as "Radio 63", KJNO, Juneau, CBS mx followed, now seems to have rr automated format, dropped ARN to KJNO R00. (Vernon)
630 AUSTRALIA QM Townsville 10/30 1016 operatic type mx. (Vernon)
650 HAWAII KORL Honolulu 10/19 1212 spot for a ballroom, ID'd as K-605, bailed followed, rare here, noted during a KXAK fade. (Vernon)
657 NEW ZEALAND 2FC Wellington 10/16 1100 classical mx, 10/17 1102 //1000 mx. (Vernon)
663.5 COLOMBIA HJMJ Cali—badly distorted audio from R, Uno-660 found here Sun// 10/26 hitting XPRM 0515-0605 and was still there late as reported. Also noted and taped the unmistakable Sussex ID heard on many of the HJ's. Yet the BFO could not produce a whistle on this stray emission as it does on many of the HJ's, as it was not an "any regular carrier"—only a sort of growl. This is not my four year old SA mystery stn but some sort of transmission freak. Was still there at 0900 10/29 but weaker. (Martin)
666 UNID DU carrier s/out noted about 1330 10/30, Sunrise was 1326. Was anybody heard Susurbays here? Northern Asiatics missing that AM. (Martin) Not that I know of-QM
675 NEW ZEALAND 3YA Christchurch 10/24 1126 male singer //810, 819 etc. (Vernon)
963 FINLAND Turku One, 10/28 tentative 0510 male w/talk clearly about alcohol, words like Alchoholine and similar sounding words mentioned. Other talk, 0516 female announcer, 0516 via phone, other talk.

964 COLOMBIA HJAQ LV de Cartagena good o/sec local WA's ID's 0525 10/16. (DeLorenzo)

965 AUSTRALIA 2ZL Sydney 10/17 1016 band mx //612 in XRN fade, (Vernon)

966 NEW ZEALAND LYZ Invercargill 10/27 1230 male w/ID and talk //075, 755, 810, 819, all in well w/National program. (Vernon)

967 JAPAN J0BS taped new broadcast in RE 1004-1015 10/29. Believe 1001 is RE language lesson leaded half-hour. How long has this been going on? Other J0's the same morning on 702, 873, 891, 764, 693, 666 plus a CW carrier at 1176. (Martin)

968 USA "Blow out" I heard a loud het on 765. Turning on the CW and looping the turn I discovered some audio. When I tuned to 766 the audio came up. There was a man talking in a female voice and tuned to 934, then spots and ID. (Vernon)

969 NEW ZEALAND 1ZD Tauranga 10/26 1130 male mentioned All-Blacks vs. Western Province game from Wales at 2130 AM so likely net was on for that. (Vernon)

970 TONGA A3Z Nuku'alofa 10/17 0955 rw mx w/ girl in url native lingo, 0957 female name, after that :0957 very weak and is.KG15. (Vernon)

971 AUSTRALIA 1KX Mackay 10/16 1106 male w/ID. (Vernon) 10/27 1033 rw mx, 1035 male w/ID. (Vernon)

972 NEW ZEALAND Z2B Wellington 10/26 1225 male w/pre-game report. (Martin)

973 USA "Blow out" male w/ID. (Vernon) 10/26 1207 male talking about the EE language lesson in previous halt-hour. How on "super-star". (Vernon)

974 USA T70 Townsville 10/17 1020 mw, 1022 male w/22 past 5 TC then commercial, 1024 3LO band mx //702, 012, QRM too strong, you can't tell a tale of time when on 702.0. (Vernon)

975 NEW ZEALAND LQQ Brisbane 10/26 1207 male w/cricket scores, then main mx points again. (Vernon)

976 USA QX/AAGA Agana 10/30 classical mx, 1133 ID, prayer then wx forecast, tropical storm warning, all schools closed, believe alarm was called Betty. (Vernon)

977 PANAMA 0630 playing organ mx and EZL SS mx. 0700 EZL's call was, "Radios de la Union" and WEAS, ID's by man and woman. (Vernon)

978 NEW ZEALAND TYX/TYX Wangarei, Keitaisia 10/17 1053 instrumental mx, then ID, followed by WC and training mx, 1133 female w/ID, prayer then wx forecast, tropical storm warning. This is with XEG complete in the fall. At the changeover, you have the SS XEG drop the carrier with the air, a rush of noise for 15 or 20 seconds, then the EE XEG begins with the needle shaking way to the left. It's unnecesaary to believe it's a case where the EE XEG goes over that takes a few seconds. Possibly XEG finds it necessary to shut the carrier off to go DA because their old equipment can handle the EE report. One has been XEG on xmr. Just guesswork-0335.

979 USA 1YX/1YK Whangarei, Kaitaia 10/26 1215 male talking about the EE XEG goes down, 0957, 0958 w/s/ot't' then spots and ID. (Vernon)

980 USA 1YX/1YK Whangarei, Kaitaia 10/26 1207 male w/cricket scores, then main mx points again. (Vernon)

981 USA 1YX/1YK Whangarei, Kaitaia 10/26 1123 instrumental mx, good sig on 0307, 0319 and 0319. (Vernon)

982 ANDORRA La Vileille R. Sud 10/26 0614 male w/FF annots so likely this. (Vernon)

983 NEW ZEALAND TYX Rotorus 10/27 1209 EZL mx //756, 810, 837 w/ National pgm. (Vernon)

984 USA "Blow out" male w/wx annots so likely this. (Vernon)

985 DOMINICAN REPUBLIC HIJB Santo Domingo 1400, stop w/jingle followed by SS rock mx 0002 10/16. (Dalorenzo)

986 USA "Blow out" male w/wx annots so likely this. (Vernon)

987 NEW ZEALAND 1YX/1YX Wangarei, Keitaisia 10/17 1053 instrumental mx, then ID, followed by WC and training mx, 1133 female w/ID, prayer then wx forecast, tropical storm warning. This is with XEG complete in the fall. At the changeover, you have the SS XEG drop the carrier with the air, a rush of noise for 15 or 20 seconds, then the EE XEG begins with the needle shaking way to the left. It's unnecesaary to believe it's a case where the EE XEG goes over that takes a few seconds. Possibly XEG finds it necessary to shut the carrier off to go DA because their old equipment can handle the EE report. One has been XEG on xmr. Just guesswork-0335.

988 NEW ZEALAND IYZ/1YK Wellington 10/21 1225 male w/pre-game report. (Martin) 10/27 1202 female with ID, Don't believe it's a case where the EE XEG goes over that takes a few seconds. Possibly XEG finds it necessary to shut the carrier off to go DA because their old equipment can handle the EE report. One has been XEG on xmr. Just guesswork-0335.

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**1922 MODEL LOOP**

**Courtesy of Roger Giannini**

September, 1922

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**Radio Journal**

---

**Loop Aerials**

By W. M. BRENNIAN

---

**One of the outstanding developments of Radio is the trend towards the inside or so-called "Loop Aerial," It is rapidly gaining ground. This is widely attributed to the efforts of Mr. Brennan, who has spent many years of hard work and little recognition on this subject. While the loop is not a new idea, it has been difficult to do much work on it because of the lack of a suitable aerial for loop antenna work. Since then, Mr. Brennan has been successful in developing a suitable aerial for loop antenna work, and has shown that the loop is an excellent aerial for many purposes.**

---

**HAY have purchased a very useful loop aerial for our local station. It is now being used for a number of experiments, and we are very happy with the results. It is a simple and efficient aerial, and we have no doubt that it will prove useful for a variety of purposes.**

---

**HAVE purchased a very useful loop aerial for our local station. It is now being used for a number of experiments, and we are very happy with the results. It is a simple and efficient aerial, and we have no doubt that it will prove useful for a variety of purposes.**

---

**Picture of the Author: "Loop Aerial," W. M. BRENNIAN, TAKEN 10/28/1922, IN CLEVELAND.**

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**ADVANTAGES OF THE LOOP AERIAL**

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**Loop antennas have several advantages over conventional aerials. They can be used for receiving and transmitting, they are simple in construction, and they can be used for most purposes. They are also more efficient than conventional aerials, and they can be used in a variety of positions.**

---

**In conclusion, I must say that the loop aerial is a very useful device, and I highly recommend it for anyone who is interested in radio work.**
Spiral loop:
Highly directional, used "morphy" in compass work and detection. Can not be wound to as long wave lengths as the solenoid loop. Takes up less space.

Solenoid loop:
More turns can be placed on a solenoid for any given size of loop. Less directional than the spiral. Allows absorb noises. This insulation is necessary because if moisture and dust were to collect on the supports it would tend to decrease the distributed capacity which causes broader tuning.

In winding the loop, here, wire is generally used, as it eliminates insulation losses which occur when covered wire is used. No. 14 braided copper or tinned copper is most used, as it is easy to bend and work with. When a loop is wound horizontally the directional effect characteristic is eliminated, as the coil then will receive in one direction as well as another.

In winding loops some have been set at sea to trap low bearing apart from the windings. After excessive time conducted by Chas. Materna, one of the pioneer wireless men of the Pacific coast, the following table has been compiled.

<table>
<thead>
<tr>
<th>Size of loop in feet</th>
<th>Spacing in inches</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>1/2</td>
</tr>
<tr>
<td>3</td>
<td>1/2</td>
</tr>
<tr>
<td>4</td>
<td>1/2</td>
</tr>
<tr>
<td>5</td>
<td>1/2</td>
</tr>
<tr>
<td>6</td>
<td>1/2</td>
</tr>
<tr>
<td>7</td>
<td>1/2</td>
</tr>
<tr>
<td>8</td>
<td>1/2</td>
</tr>
</tbody>
</table>

Large loops with less number of turns seem to give better results than do smaller ones with more turns. Loops 4 to 8 feet in width are the ones most extensively used for telephone broadcast receiving.

Following is given the wave length range for different sizes of loops and circuits computed by the author during the same tests.

Four-turn loops:

<table>
<thead>
<tr>
<th>No. of turns</th>
<th>Wave length</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>200</td>
</tr>
<tr>
<td>4</td>
<td>300</td>
</tr>
<tr>
<td>5</td>
<td>400</td>
</tr>
<tr>
<td>6</td>
<td>500</td>
</tr>
<tr>
<td>7</td>
<td>600</td>
</tr>
<tr>
<td>8</td>
<td>700</td>
</tr>
</tbody>
</table>

In bringing the leads from the loop to the receiver they should be made as short as possible, and should be arranged so that there is no capacity or inductive effect to other conductors, etc.

Very interesting experiments can be carried on with loops and radio frequency amplification. The study and experimentation with loop antennas are very interesting. Great strides have been made in this field already, but there is a greater field for development, and every day thousands of radio fans and devotees are finding keen enjoyment of experimentation and satisfaction in working out new problems and ideas introduced by loop antennas and radio frequency amplification.

The statement has been made in New York City, Chicago and Pittsburgh department stores are handling radio equipment at the rate of approximately $4.00 a week.

The New York Evening Mail recently printed itself of the following pitiful remark: "It has been said that when Greek meets Greek they start a revolution. Nowadays when promoter meets promoter they start a radio corporation." The humor was in the course of a warning against investing in "Fly-by-night" radio corporations that are organized merely to relieve gullible investors of their money.

According to the Scientific American "a Chinese engineer is reported to have discovered a method by which radio messages may be sent to a definite receiving station without the danger of being intercepted by other stations. It is stated that by means of a simple apparatus the so-called 'locked power line' of the magnetic field may be clamped off and grouped into parallel rays. These rays are said to do away with the necessity of wires."

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A18 A WHIP ANTENNA COUPLER FOR USE WITH PORTABLE RECEIVERS, J. Hagan. A simple construction project to inductively couple a whip antenna to the internal ferrite rod in many portable multiband receivers.

A19 NEBRASKA BEVERAGE, D. Fischer, C. Dabelstein, R. Mitchell. A discussion of the Nebraska Beverage and the results of its use.

A20 LSCO-1, Ron Schatz. Complete construction plans for building the Loop Sense Cardiod Array. NOT A PROJECT FOR BEGINNERS! This antenna system is complex to build and operate. Should yield a unidirectional receiving pattern if operated properly.

A21 A GOOD LOOP IS EASY (AND CHEAP) TO MAKE, J. Tull. Construction plans with photographs for a simple loop amplifier system.

A22 WEDGE ANTENNA, Charles Wolff. Plans to construct this alternative to the 9-ft. box loop for those with limited space.

A23 STURDY AND EFFECTIVE FLOOR STAND MOUNTING ARRANGEMENT FOR LOOP ANTENNAS, M. Maloney. Article on mounting air core loop antennas.

A24 LARGE APERTURE FERRITE CORE LOOP ANTENNAS FOR LONG AND MW RECEPTION, J. Hagans. Details and theory for the construction of this new type of DX antenna.

A25 NOVEL APPROACH TO BUILDING YOUR OWN BCB LOOP, M. Maloney. New ideas for improvements in ease of operation and sturdiness of loop antennas.

A26 AN AC POWER SUPPLY FOR THE PET LOOP AMPLIFIER, J. Hagan, R. Edmunds. Tired of the high expense and short lifespan of batteries for your amplified loop? Here is a simple plan, complete with schematic, to adapt your loop amp to wall current.

A27 SOME THOUGHTS/MORE THOUGHTS ON BEVERAGE ANTENNAS, J. Clements and Chuck Hutton. Originally two articles, this report gives some valuable additional thoughts on construction and use of the Beverage antenna. Goes well with A7, A10, A11 and A16.

A28 ANALYSIS OF THE BEVERAGE ANTENNA, C. Hutton. This lengthy article is divided into two parts: the first giving basic theory of the Beverage antenna and the second dealing with two wire phased antennas. Packed with calculations and features 35 illustrations.

A29 HARLEY LOOp ANTENNA, Harley Steward. This 18-turn spiral loop is very directional. A detailed drawing and construction hints are given.

A30 REMOTELY TUNED DIRECTIONAL LOOP ANTENNA, E.L. Cummins. Shows how the limitations of a very poor shack, in this case a mobile home, can be overcome by use of an outdoor, remotely controlled, loop antenna. Mr. Cummins gives many practical points for others wishing to experiment with remote antenna installations.

A31 SIMPLE CHEAP AND EFFECTIVE PRESELECTOR-LONGWIRE TUNER-AMP, B. Sherwood. This construction project will result in a device which not only will tune your longwire, but will amplify the signal as well. Schematic and brief instructions are given.

A32 RADIO WEST LOOP VS. THE SM-2, Mark Connolly. Two commercially available ferrite loop antennas are tested side-by-side for sensitivity, frequency range, nulling, tuning sharpness/selectivity of preamplifier and ease of operation.

A33 ANTENNAS FOR AM BROADCASTING, Steve Kennedy. Gives a brief history of early station antenna systems and explains what types are in use today.

A34 DXING WITH THE DX FLYERS, G. Thomas and C. Barfield. Describes the results of experiments using kite supported antennas for MW reception.

A35 PRACTICAL PHASED BEVERAGES, C. Hutton. A detailed guide to constructing this superior antenna, which combines the best of both the loop and Beverage antennas. Includes some additional comments by Mark Connolly.

A36 LOOP-LONGWIRE COMBINED ANTENNA, F. Swain. A look at the use of "sensing" antennas for both DXing and direction finding.
BUILD YOUR OWN AUDIO FILTERS, P. Sullivan. A somewhat technical theory and construction article on inexpensive homebrew audio filters for the DXer.

THE RUSTRAK R-88 RECORDER, R. Schatz. Explains operation and use of this versatile chart recording marker and its applications to the study of propagation in MW DDXing, and gaining insights into potential loggings.


A FREQUENCY COUNTER FOR RECEIVER TUNING, R. Foxworth. A very thorough paper on digital readouts and what to look for in various models. Discusses technical theory and provides circuitry to enable the experimenter to build a counter for use as a "digital dial." Very thorough.

FURTHER RECEIVER HOT RODDING HINTS, C. Hutton. Tell what you can do to further improve the performance of even the best commercial receivers, and some problems with the older receivers being used.

THE LYONDOINE CRYSTAL WIRELESS RECEIVER, R. W. Tuggle. The concepts of vintage crystal radio are incorporated in these detailed construction plans for a simple receiver, offered as a "sporting" alternative to modern receivers; yet it has the potential for real DX.

DIVERSITY RECEPTION, C. Hutton. Using more than one antenna and receiver is an effort to reduce fading and interference on one frequency. This article deals briefly but concisely with the basics of "DX" and how it can be applied to Medium Wave DX.

TIPS ON REMOTING TAPE, R. J. Edmunds. Are you going away during that rare DX test? This article explores several methods you can use to turn your receiver and recorder on while you are otherwise occupied. Useful with 85 and 320.

STRONG SIGNAL HANDLING, C. Hutton. This technical article explains that sensitivity and selectivity are not the only, nor the most important, considerations in a receiver.

RECORDING JACKS FOR RECEIVERS, Dave Arbogast. A simple step-by-step procedure is outlined for adding a tape jack to almost any receiver.

DOMESTIC DX

1970-1580 STATION LOCATION MAPS. Two maps pinpointing the location of all domestic stations operating on these two superb sunrise/sunset skip channels. A valuable aid to the sunrise/sunset DXer.

IT TAKES TWO TO VERIFY, PLUS HELPFUL HINTS, J. Murley and R. Schiller, respectively. If you are unhappy with your domestic QSL returns, read this article on the station's attitude toward reception reports. Also, veteran DXer Ron Schiller gives tips on increasing your returns.

CANADA'S WILDERNESS RADIO: THE LPRT, P. Taylor. In depth study of those 20 and 40 watt Canadian stations that you hear, but don't understand. A must for the domestic DXer.

WHAT IS A PRE-SUNRISE AUTHORIZATION? R. J. Edmunds. Some U.S. stations are authorized to operate with powers such as 14.3 watts during certain hours; this article explains why. Some stations are authorized to operate with powers such as 14.3 watts during certain hours; this article explains why.

LONG DISTANCE RECEPTION OF DX TESTS, F. Dailey. Are you thinking about asking a station to do a DX test? Here are some proven techniques that if used by the station could make it easier for DXers to hear the test. A must for novice CQG members.

MAKING THE BEST OUT OF PREPARED-CARD VERIES, Kelly Andrews. Ideas to show you how to obtain those elusive veries through imaginative and creative prepared cards; with numerous samples.

ACURATE DISTANCE DETERMINATION FOR GY DX'ERS, Bill Hale. A method for determining distance of local-channel stations for the listener is presented, along with a table of geographic coordinates for every U.S. city with a GY station.

THE NSP SITUATION, J. Starr. A look at this problem from the broadcasters' side of the fence.

DX FROM THE TWILIGHT ZONE, P. Sullivan. For various reasons some stations are audible at sunrise and sunset only. This article explains the reasons.

GRAVEYARD DX, R. Foxworth, with addition by M. Levintow. This article tells you how to DX those cluttered local channels and get results.

CANADIAN FAMILY LIFE...IT'S TWINS. Explains why many station "families" exist in Canada. List of station groupings as of Nov. 1978, with 1978-80 updater. Includes LPRTs and other stations of better DX potential.

THE CANADIAN AUDIO NETWORKS, Brian Vernon. Explains origin of Canadian audio networks and tips on identifying stations belonging to them.

GRAVEYARD STATIONS MAPS, Bill Hale. Useful maps for those who like the challenge of "dead" frequency DX. Includes station listings for each graveyard frequency.

SOME TIPS ON IDENTIFYING UNID'S, R. J. Edmunds. Offers practical tips on how to ID stations using reference materials and deductive logic.

SUNRISE SKIP DX, R. Kramer. Practical explanation of how to add stations to your log through understanding pre-sunrise authorities, station allocations on clear channels and auroral effects.

STATION LISTS

FREQUENCY CHECK LIST, Joe Fela. Many U.S. stations run equipment tests at regular intervals and times. This list is a valuable aid to new loggings. Updated yearly.


CUBAN STATION LIST, C. Hutton. This up-to-date listing is a handy resource for the International DXer. Updated yearly.

NON-DIRECTIONAL AERONAUTICAL BEACONS, D. Davis. An explanation of the types of beacons found in and near the MW band, plus updated listing of aeronautical beacons.

BROADCASTING IN GERMANY, Armin Littek. Besides a detailed listing of stations in Germany, there is included an overview of German broadcasting networks, plus hints to help hear German stations in the U.S.

A SURVEY OF LA SPLITS, C. Hutton. A list of all Latin American stations presently operating on split frequencies. Updated yearly.

FOREIGN DX

DX'ING LATIN AMERICA AND THE CARIBBEAN by N. Kazaross, M. Connelly and M. DeLorenzo. A detailed listing of 46 LA and Caribbean countries with MW operations, listed in order of easiest-to-hear to most difficult, along with helpful hints to logging.

TA TIPS FOR BEGINNERS, Dave Yockis. Valuable information is offered here from a practical standpoint to the DXer trying for his first TA reception.

PORTUGUESE FOR DX'ERS, R. Schatz. Describes the important and unusual features of this language; a must if you DX Brazil.

TA DX'ERS GUIDE TO SUNRISE-SUNSET TIMES, Mark Connelly. A handy reference to SRS-SSS times with extensive tables for many locations to aid the TA DXer.
HUNTING LATIN A MUSIC, R. Schatz. Describes types of LA music indigenous to various countries and tells how to ID LA stations using this information.

ZONAL-ANALYSIS APPROACH TO TA DX, Mark Connelly. A systematic method of grouping TA countries to help the DXer recognize different types of openings and improve TA reception.

ZONAL-ANALYSIS APPROACH TO PAN-AMERICAN DX, Mark Connelly. Similar to F6, with the emphasis on helping the Eastern U.S. DXer log LA and South American stations.

THE ASIA-AFRICAN FREQUENCY PLAN, from New Zealand DX Times.

ITU FREQUENCY ALLOCATIONS AND THEIR IMPACT ON TA DX'ING, M. Connelly. Trying for TA's on their new frequencies? What are your chances of logging a specific station? All region I MW frequencies are listed and what should be heard under good conditions.

COMMON SENSE T.A. DX STRATEGY, M. Connelly. Practical hints are given for newer DXers to hear Trans-Atlantic stations.

LOCAL SIDERBAND SPLASH: HOW MUCH IS TOO MUCH? G.P. Nelson. Many DXers complain about certain local stations overmodulating and producing large amounts of interference. Article describes FCC regulations on sidereal radiation on the MW band and types of station origins of spurious radiation.

MODULATION ARCING, J. Starr. Describes a frequent but rarely discussed cause of MW interference originating at the station that can wreak havoc on the MW band.

SUNRISE-SUNSET TABLES, G.P. Nelson. These charts permit the DXer to determine accurate time of sunset and sunrise at any point in the world on any particular day. Very useful for international DXers.

QUASIMONTHLY PATTERNS IN ATYPICAL MW DX RECEPTION, G.P. Nelson. A large body of data on TA reception gathered by N. Wood in England. Information is analyzed in an attempt to improve the Lunar Phase Theory.

UNRESTRICTED RADIATION, G.P. Nelson. Discussion of carrier current stations and how to hear them.

RF POLLUTION, G. Hauser. General discussion of the radio interference problem and steps necessary to control it.

PATTERNS, PARTS I, II, AND IIb, P. Hart. An understanding of the directional patterns used by North American MW stations is vital for the active domestic DXer. This series of articles explains in authoritative detail what patterns mean and how the DXer can identify his log by understanding them.

PRECISION FREQUENCY ANALYSIS, R. Schatz with notes by R.J. Edmunds. A discussion of the technique of analysing the characteristics of a station's frequency over the long term as an aid to the identification or elimination of stations as possible DX catches at any given time.

MORE ON HOW DIRECTIONAL ANTENNA PATTERNS ARE PRODUCED, Wes Boyd. Supplementary information to the articles contained in the current edition of the NRC Night Pattern Book.

SUPERMODULATION AND EFFECTS ON DX'ING, Steve Kennedy. Discusses why there is overmodulation and what this problem will affect the DXing hobby for some time to come.

TERRAIN CHARTS FOR PROPAGATION PREDICTIONS, M. Connelly. This article details a method to prepare a chart of a DXers surrounding terrain which can help enhance or diminish reception.

NOISE LEVELS AND USEABLE RECEIVER SENSITIVITY, C. Hutton. Discussion, in technical terms, of the effect of noise on receiver sensitivity.

GREAT CIRCLE CALCULATIONS REVISITED, Mike Tuggle with an addition by R.N. Allen. If you like to do calculations, this is the article for you. Mike explains how to figure distance and direction of stations mathematically. Richard Allen has written a computer program for use with the new "home computers" to figure the Great Circle paths.

HOME COMPUTERS AND DX'ING, Mark Connelly. An introduction to the use of the new generation of home computers as an aid to DX record-keeping and calculations.

COMPOSITE CARIBBEAN GROUNDWAVE ANALYSIS. Edited by Mark Connelly, this is a frequency-by-frequency listing of daytime receptions from several Caribbean locations.

HOME COMPUTERS AND DX'ING, Mark Connelly. An introduction to the use of the new generation of home computers as an aid to DX record-keeping and calculations.

PAN-AMERICAN DX, Mark Connelly. Similar to M14, except locations in Eastern U.S. are included in this overview of daytime receptions.

THE ASIA-AFRICAN FREQUENCY PLAN, from New Zealand DX Times.

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EAST COAST GROUNDWAVE ANALYSIS. Edited by Mark Connelly. Similar to M14, except locations in Eastern U.S. are included in this overview of daytime receptions.


THE AURORA OF 1970, G.P. Nelson. Traces a classic MW auroral attack form its origin on the sun to its effects on MW reception.

COMPARATIVE MEASUREMENTS OF GEOMAGNETIC INDICES, R.J. Edmunds. The author compares on a daily basis for three months the various A-index measurements as reported by several major observatories. He tells how the indices are related to each other.

SKYWAVE OR GROUNDWAVE RECEPTION? G.P. Nelson. How to tell whether the signal from a station you are listening to is arriving via groundwave or skywave or both.

A BEGINNER'S GUIDE TO THE IONOSPHERE, Father J. Fejza. Radio wave propagation is influenced greatly by the conditions in the ionosphere. This article explains the processes which change the ionosphere and the effects of these changes on radio waves.

THE LIMITS OF MIDWAY MW DX, G.P. Nelson. Comprehensive article describing the factors which influence radio wave propagation and reception during the late morning and early afternoon hours.

LIMITATION ON THE USE OF THE A-INDEX, G.P. Nelson. While the A-index is a valuable tool, it is easily misinterpreted. This article shows why.

ORDER FROM NRC PUBLICATION CENTER, P.O. BOX 164, MANNESVILLE, NY 13661.
P13 BCB Reception During Periods of High Auroral Activity, G.P. Nelson. Describes the author's research into the effects of the aurora on MW propagation.

P14 Skyline Blockage, Fr. J. Pejas. Mathematical derivation of the formulas needed to calculate the effect which terrain has on signals.

P15 Skyline Blockage, Sources of Uncertainty, G.P. Nelson. Takes into account the possibility of signal propagation by some less common modes which are subject to blocking by the horizon.

P16 Horizon Blockage: Can Fresnel Diffraction Be Ignored? G.P. Nelson. No, it can't! This article shows how signals that should be blocked by the horizon sometimes can be heard.

P17 Transpolar DX Reception, R.J. Edmunds. Are you looking for Asian DX more exotic than Urushiki-1258? This technical article relates to the transpolar reception of central and eastern Asiatic stations at sunset in North America.

P18 Observations of Transatlantic Medium Wave Radio Signals, C.W. Bailey. The results of a lengthy survey to TA receptions made over a one year period.

P19 Propagation at Medium Wave Frequencies, F. Sullivan. Discusses some aspects of the factors which control signal reception on the MW.


P21 Domestic Propagation—Answers to Frequently Asked Questions, R.J. Edmunds. A brief discussion on some of the propagation factors that affect domestic reception.

P22 Review of Solar Activity for the Medium Wave DX'er, R.J. Edmunds. A concise explanation of the Fredericksburg A-index as well as its use in the hobby is given in this article. Goes with P1, P6, P7, P12, P13, P19 and P20.

P23 Medium Wave Ionospheric Propagation Plus the Sequel to... by R. Schatz. The articles take a different approach to propagation and presents new terms and theory. An introduction to P24.


P25 Summer Cycle 21—the Peak—How Much and When by O. Okleshen, K.R. Report. This article, through careful predictions, shows how the next peak in solar activity will be one of the most severe in recent history; includes additional comments by R.J. Edmunds.

Receiver Reviews

RR1 Receiver Comparisons—What Do They Mean? R.J. Edmunds. Certain problems arise when comparing product summaries and receiver reviews. The author explores these comparisons with emphasis on MW DX.

RR2 Qualitative Review of the Yaesu FRG-7 Receiver, G. Hauser. A detailed non-technical review of this popular communications receiver.

RR3 A Review of the Sony ICF-5900W, Dan Phillips. A review and comparison with other portable receivers. Also deals with SW and FM sections of the unit.

RR4 Heath GR-78. R. Schatz.

RR5 Barlow-Wadley XGR-30. M. Hardester.

RR6 A Review of the Panasonic RF-2200, Michael Sapp. A non-technical comparison of the RF-2200 with the Sony ICF-5900 and Realistic TRF.

RR7 A Non-Technical Review of the Worcester Long Distance Receiver, J. Starr. A user's critical commentary of this revolutionary receiver. Built in limited quantities, this receiver is not readily available to most DXers.

RR8 McKay-Dyemex DR-22, J. Clements. A detailed, non-technical pre-production review of one of the "new breed" of receivers; mentions features, performance and how it measures up to receivers now in use.

RR9 Panasonic RF-4800 Review, G. Wanning. Evaluates overall performance of this multiband receiver. Includes schematic and technical specifications furnished by the manufacturer.

RR10 HQ-180 Series Receivers, D. Lankford with additional comments by Bob Foxworth. Reviews technical details and includes personal comments on the popular Hammarlund HQ-180 receivers.

RR11 Sony TR-6500 VS. The TRF, Charles Barfield and Gerry Thomas. Thinking of buying either of these popular inexpensive receivers. This reprint compares them side-by-side and gives impressions.

RR12 General Electric's Superadio, G. Thomas and C. Barfield. A detailed review of this new portable AM/FM receiver, compared with the Radio Shack Realistic TRF.


RR14 Review of the Drake R7, C. Hutton. Summary of features and in-use evaluation of this new (July, 1979) communications receiver.

RR15 Sony ICF-DLW, Jerry Neves. A brief look at this new Sony portable, including user comments and specifications.

RR16 NHD-515 Review, Bob Foxworth. A detailed review and commentary on Japan Radio Corporation's newest receiver.

Product Summary

PS1 Drake SDR-1 Receiver, Bob Foxworth.

Updates to the NRC Log and Pattern Book

UDL A year's set of updates to the NRC Domestic Log is available to members for a flat fee of $4; to non-members for $5.*

UPB A year's set of updates to the NRC Night Pattern Book, available to members for $1; to non-members for $2.*

*Inquiries as to availability are advised.

Hobby Aids

SSM Sunrise/Sunset Maps, a set of 16 maps (8" x 11") with instruction sheet showing the monthly average sundown/sunset times for the United States. An invaluable aid to the sunrise or sunset DXer. $2 to all.

MAP Map of United States and much of Canada. These 8" x 14" maps are professionally prepared and contain state/province boundaries. Cities are not listed. Ideal for non-DX related uses also. 50¢ for 5.

GUIDE Broadcasters Guide to DX, A tri-folded guide for use with reception reports explaining DXing, how the NRC was formed and the importance of QSL's to DXers. $1 for 25.

SIXGUIDE Spanish version of the above Broadcasters Guide. $1 for 25.

FORMS A set of 3 masters for use in photo-offset printing to permit members to prepare their own NRC stationary, report-forms—both Spanish and English. For members only. 50¢ per set.
NRC BOOKLET PUBLICATIONS

The National Radio Club is proud to announce its list of booklet publications. All of these items are available from the National Radio Club Publications Center, P.O. Box 164, Mannsville, NY 13661.

DOMESTIC LOG

This spiral-bound volume contains listings for all U.S. and Canadian A.M. stations, including locations, addresses, powers, antenna operations, networks, schedules and other useful information.

NIGHT ANTENNA PATTERN BOOK

This spiral-bound volume features the nighttime directional antenna patterns of Canadian and U.S. stations on map pages of 8½ x 11 inches. These patterns are drawn to scale from official government sources. Commercial publications of this sort cost more than ten times as much for this most valuable DX reference. Cost to members is $7.50 post-paid and $8.50 to non-members.

ANTENNA REFERENCE MANUAL

This manual is a compilation of numerous articles on the subject of antennas for MW DXers which have appeared in the pages of DX News over the past several years in one handy volume. Includes data on air-and ferrite-core loops, antenna tuners for longwires, and directionals antennas, along with coupling devices. 5½ x 8½ booklet format. $2.50 in the U.S. and Canada.

RECEIVER REFERENCE MANUAL

This manual is similar to the manual on antennas, except that the subject is DX receivers. It includes useful articles on receiver modifications and accessories, and reviews of many of the commonly used MW DX receivers currently available. A must for the serious DXer/Experimenter. 5½ x 8½ booklet format. $2.50 in the U.S. and Canada.

GETTING STARTED IN MEDIUM WAVE DX'ING

This booklet is designed to assist the novice DXer in pursuit of the hobby. It includes introductory articles on foreign and domestic DXing as well as related topics. Included are articles on reception reports and safety and preventive maintenance of your DX gear. All members who pay the New Member Fee automatically receive a copy of this booklet. For non-members the cost is $1.25 in the U.S. and Canada.

LOG AND PATTERN BOOK UPDATES

Periodic updaters for the NRC Domestic Station Log and the NRC Night Antenna Pattern Book are published in the pages of DX News. Non-members may obtain reprints of these updaters in composite by ordering them through the NRC reprint service. Cost is $1.00 for members and $2.00 for non-members, covering all updates from time of the most recent edition of the Log or Pattern Book to the date of the order. Inquiries as to availability are advised.

NOTE: Prices subject to change without notice. Orders from outside North America, please contact Publications Center for applicable rates and methods of shipment. For domestic orders, allow 4 weeks for delivery.
RADEX 1929 RADIO INDEX

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* Night Pattern Book temporarily out of stock; new edition availability to be announced.

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ERNEST R. COOPER
5 ANTHONY STREET
PROVINCETOWN, MASS. 02657

The opinions expressed in this column are those of the individual members, and do not necessarily reflect those of the editors, publishers or NRC.

KOMS WORKING ON HIS RADIO HISTORY
KENSTADT RICHARDS - Box 67 - Beacon Falls, CT - 06401

11/1/60

Some of the letters received since my last report: "W. H. 2711, 927, I1T, 925, W. H. 105, KEC and "W. H. 94." The weather has been quite good, the skies cloudburst, and the nights have been quite cold. It seems like hearing the news that many New Zealand stations would be going 24 hours as of November 1. This will certainly turn out the days of hearing the Aussie stations on those particular frequencies. I have noted an increase in Musings from West Coast area DXers in the past six to eight weeks. China has been quite prompt in replying to reception reports in the past year and they include more station data on their cards than they used to. South Korea, especially the K.B.S. Network stations, has turned a "good verifier" to a poor one. New Zealand DXers are not getting their QSLs fast, and the old standard of DXE (V originate QSLs) are very prompt and courteous. Malaysian stations verify but really take their time. Indonesian stations are notorious for not replying. Some for North Korea. I still like the "challenge" of DXing. I have been receiving DX on DX logs, DXQX, DXF, and DXW for the past three months. I think that is the other half of the hobby of DXing. My many many albums of verie cards and letters are much more attractive and meaningful than a group of colorless plastic tapes. Just my opinion on a recent subject in DX. (I'm with UN, Ham - SLC)

WANTED TO SEE RIGHT POWER INCREASES

MORE MUSINGS

11/1/60

I thought I'd inform you on the "going-on" here at this shack! I spent eight weeks of the summer on an archeological "dig" on a Mississippi river island near Prairie du Chien, WI. The weather was hot, the site excavated by Professor B. Was my first DX station and a 40-hp. As luck would have it, the weather was good after 10-17. With my last session of school keeping me quite busy. But I found time enough to hear the CQ Contest from Ottawa, Canada. I brought in an HF-2400 and a got acquainted with many new DXers. I have finally acquired a good "swell" of DX, which is quite good after CQ/F/". Wouldn't it be interesting if Nato and others increased their power at night regularly when others sign off? Other recent catches include: KIAD-980, KCQ-1000, KCB-1290, KEC-1000. This is the only DX right now. DX, what do others think of it? 175 to death to station.

QSO IS A PRIVILEGE

2271 East Broad Street
Columbus, OH - 43007

...are still fantastic in Milwaukee, 27 new stations since my last Musings, bringing my total to 27 since 9/1. Most of these are listed in DX Digest. I'd like to thank Bob WM for his help in identifying some of the stations. This year I have added a few goodies. Best of the new batch have been KZL-AZQ, KLM-SWQ, KML-PNW, KXQ-1000, KLF-1000, and KQF-1000. I have used both stations, so far still only at 10. It looks like WJC-990 Chicago has gone to 21st. Between them & WJG Detroit, 950 is looking grim around here. I'll be ordering an 18-2 antenna next week. This, along with the rest, should make for a good season. I urge other WQIC members to start sending in their catches. This helps everyone in your area. If you get something good, don't keep it a secret.
THE EARTHP BIRD CATCHES THE VCRM — AND THE DX

JOHN D. KHELLEK 1716 Southeast 26th Ave. — 97202 ORE 503/822-2568

November 30, 1980

GeneraIIy clear W6 has produced very little DF this month. I had an

intermittent problem with manmade noise. On 707 kHz approximately a

cracking was on a portion of the SC. A phone call to FRANK KERRILL showed it to be a locol

problem, but who knew what it was caused by. Some intermittent bursts of static have been

noticed, especially troublesome at the low end of the band. In between all of these noises, some

good DX has been rolling in this past week. 10/29 — 5:39pm W2F7-1950 in with nice ID & ad for

the BCB. On 10/30 — 11:45pm I was monitoring the mailing of the W5RDQ log. 10/30 — 11:45pm

Up early this AM & heard G3L-1500, Sharburn. W1H-FF

5:45am, SH-75-2000, Minneapolis w/sprints for oldies program 7:15am, F1G-1150, on air with

the BCB. 10/30 — 6:30am, 11/2180 Almas, MI, mixed with W5/15: 5.500, W1J-0500 folo w/s

of the day. 11/2180 — 6:45am W0-730 was announcing school menu, 10/30 S55— 5.325 W1J-730

5:35pm, E4X-1500 Glens Falls, SC w/sprints ID & W6. (171-755) — 5:45pm, 10/31 SH-75-2000, Lima,

in early. 6:55pm, S6S, Pararborita, Surry, Nova Scotia. Reported on this on the AM. I don't think

the SB side is & Amannor in wdl foreign language. 10/30 10:40pm, on 730, three stations noted in

London. WH8-1500, late ID, a 745, W8/5, Portland. W6 11/550 @ good @ 6:15pm, owned by Castor Broadcasting Co. of Missouri. SH on.

On 10/31, the W9-71500 in with 150K. 10/31, 1:15pm — 11:55pm 1500-730 KLJ-730 from Warrington, MD

mentioned the new HST waa strong here, QSL already back from the. WAFL TEST waa strong here,

QSL alreadJ' back from the 1500-730. The WGTO HST waa strong here, QSL alreadJ' back from the.

11/30, 10:53pm W5RDQ was scheduling school menu, 10/30 S55— 5.325 W1J-730

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Don't blame the PLC

While this wasn't my idea. I thought I'd make a few

The Radio Shack model 12.656

The number of locations which are observable, and in some instances, the use of a local antenna could be to your advantage. I've heard from people who have made 20,000w •••• distance

Your knowledge and experience is appreciated. Perhaps some other things as well. The situation is changing out there, and a little thing

I've heard that the FCC is looking into this issue and will make some changes soon. It might be worth your while to keep an eye on this and see what happens.

The FCC has been looking into this issue for a while now, and it seems like they are getting close to making a decision on whether or not to allow these types of antennas on the air. They've been discussing it for the past few months, and I'm sure they will make a decision soon.

If you have any questions or concerns, I would be happy to assist you. Please don't hesitate to contact me.

Thank you for your understanding and support.

Sincerely,

[Your Name]
MARC "RIDES OFF INTO THE SUNSET"!

GREETINGS, SEF & other DX'ers.

I have received a number of e-mails from subscribers to the Mirror DX Digest expressing their concern about the recent developments on the Mirror DX Digest service. Specifically, some subscribers have reported difficulties accessing the service, and others have expressed dissatisfaction with the content of recent issues.

I want to assure all of you that the Mirror DX Digest is still very much alive and well. We are currently working on several improvements to the service, including enhancing the functionality of the website and improving the overall user experience.

In an effort to address some of the concerns raised, we are considering implementing a subscription-based model for the service. This would allow us to provide more comprehensive and in-depth coverage of DXing news and developments, as well as exclusive access to certain content.

We understand that these changes may be unsettling at first, but we believe they are necessary to ensure the long-term viability of the Mirror DX Digest. We value each and every one of you as subscribers, and we are committed to providing a service that meets your needs.

Thank you for your continued support and understanding. We look forward to serving you for many years to come.

Best regards,

MARC

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Dave's Getting Lots of New Catchers & Visitors

Dave Fox - 332 Douglas Street, Victoria, BC, Canada  V8W 3C9

Dix has really picked up over the last month or so with the addition of several new DX stations. Some of the notable ones include:

- WWAP-1200 (SA) on 09/13 was heard on 10/6.
- WWAP-1200 (SA) on 10/15 was heard on 10/26.
- WWAP-1200 (SA) on 10/27 was heard on 11/07.
- WWAP-1200 (SA) on 11/10 was heard on 11/20.
- WWAP-1200 (SA) on 11/22 was heard on 11/24.
- WWAP-1200 (SA) on 11/25 was heard on 11/27.
- WWAP-1200 (SA) on 11/29 was heard on 12/02.
- WWAP-1200 (SA) on 12/07 was heard on 12/14.
- WWAP-1200 (SA) on 12/16 was heard on 12/23.
- WWAP-1200 (SA) on 12/28 was heard on 12/30.

These new DX stations are a testament to the growing interest in DXing and the expanding DX community. We are excited to see new DXers participating and we hope to see even more in the future.

Best regards,

Dave Fox

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