

" AMERICAN IONOSPHERIC PROPAGATION ASSOCIATION "

Art Collins - President
68 Amber St.
Buffalo 20, N.Y.

TV - DX

King Schafer - V. Pres.
360 Zimmerman Blvd.
Kenmore 17, N.Y.

Volume 7, Number 2 _____ Page One _____ February 6, 1960
A.I.P.A BULLETIN---Published first week of each month. 12 issues per year
MEMBERSHIP--- \$3.00 per year. Entitles you to monthly bulletins, report
forms, membership card and miscellaneous items. Canadian membership
\$3.50 --- Foreign membership \$5.00. Payable to President.

EDITORIAL....

For several weeks now our president Art Collins has been rather seriously ill, having had two heart attacks among other ailments. At present Art is in the hospital, for a period currently estimated at a month to six weeks. The doctors state his condition has "vastly improved", so we can all look forward to his rapid recovery. Even during the height of his illness, Art was worrying about AIPA affairs. This beyond words speaks highly of our devoted president, and I am indeed certain we will all do our best in keeping the AIPA head of steam at a steady 200.

So until Art is again back with us, for the time being AIPA operational headquarters will shift here to Kenmore N.Y. Therefore for the March bulletin, all editors please mail your completed stencils to the Kenmore address. This also applies to dues, official correspondence, and all other matters that Art usually takes reception of. I will do my best to keep everything on an even keel, but please be patient if there is a goof now and then. If you are an editor and fail to get your stencil quota, just drop me a line. This also applies to all you members who fail to receive your new membership cards, report forms, etc. Also for the time being all special projects like Gordon Simkins station identification program will be temporarily postponed from this end of the line. Will all of you who have contributed funds to this project please contact me.

At this time we URGENTLY need a replacement editor for the FCC news page. The requirements are the ability to type, and most important a line wire source of television station data. This is usually found in a industrial trade publication like Broadcasting. The format can be obtained from past columns, and any other need data can be supplied here. So please if you can type, and have current trade data, drop me a line.

Now a personal note to young editor Robert Cooper of DXing Horizons. Bob, the AIPA tried in all honesty to be your friend, when we let you (free of charge) promote your magazine in our Nov. and Dec. last bulletins. From our "friendship" you gained subscriptions from AIPAers, and even a fine advertising account from the Winegard Co. And what did the AIPA receive in return? NOTHING except lip service, requests for a free bulletin, and worst of all slander! So listen Cooper, those two articles the AIPA had in national publications last summer were as factual and honest as the word of the Lord! Just who under the sun are you attempting to deceive this time.

Last, let us all wish Art the best, and hope and pray he will be back with us soon as possible. And remember, if you miss something, or get all fouled up, just drop me a line.

Till next time

73's King Schafer

I assume that everyone had a Merry Christmas, a happy New Year and all that. By now all of you have probably received some winter E skip. Several nights ago I had stations in from West Texas and East New Mexico. With skip going up to channel 6 and an unidentified channel thirteen was received weakly for about a minute at the peak of the scession. Reception lasted approximately five hours at my location and I was handicapped due to the fact that my rotor is out of commission. I am planning to put my CL4X thirty feet above my roof which is almost thirty-five feet above ground itself. I also plan to install a new CDR or Alliance rotor. I am not experienced with UHF and I would like some opinions on the best UHF antennas to use and the best type of converter. Any of you that have FM tuners I would appreciate a letter and tell me your opinions on the best type of tuner and FM DX antenna.

This may have been done before, but I would like take a poll of all DXers west of the Mississippi and tell me what they consider the top DX station on each one of the low band channels 2-6. This next summer if possible at all I would like to see a Western Convention. I am pretty sure that by next summer I will have facilities at my home to hold such a convention for AIPA members on the West Coast and near-by states if they could attend.

I imagine that most of you have received a copy of the new "TV-FM DXing Horizons". I found it very interesting. I noticed that in British Columbia a method of television reception is used which I also use. This particular station in B.C., is 95 miles away from the point of reception and only operates on 3,300 watts. The method of reception is diffraction. See illustration below. I receive KVIP channel seven in Redding, California at a distance of 130 miles all the time. However this station operates with a power of 112,000 watts and its transmitter is nearly 7,000 feet above sea level. The diffracting peak I use is Mt. Ashland, oddly enough as I sometimes use it for DXing field traps. It is about seven miles from me by air. This peak is over 7,000 feet high. It was pointed out in Mr. Cooper's magazine that the diffracting peak should be able to be seen from both the transmitter and the point of reception. This is not so at my location as Mt. Ashland is over 120 miles away from KVIP's transmitter and the Siskiyou Mountain range is in between. However on Mt. Ashland several thousand microvolts of signal are available and that definitely helps. Below is a diagram explaining diffraction.



- A. This is the transmitter. B. This is the diffracting peak. The peak actually focuses the signal down toward the antenna at the point of reception, instead of letting the signal continue in a straight line.
- C. This is the point of reception. In most cases the signal is generally weak requiring amplification at the antenna. At my location channel seven in Redding, California, has a signal strength of about 40-50 microvolts. As of yet, I do not have any type of booster or antenna other than a ten-element channel seven yaggi. That's about all for this month. I welcome mail with open arms. Best of DX'ers.

Charles Wood-----

AMERICAN IONOSPHERIC

PROPAGATION ASSOCIATION

"Rank Column"

compiled by Walter W. Spaulding

I have several reports this month but not as much as expected. This month letters from John Cody Frank Wheeler Dennis Smith and our friend Frank Hill.

John Cody has the following verie signers also on and off times with some test pattern news.

- | | | | | | |
|---------|--------------------------|---------|------------------------|--------------|---------|
| CFCJ 2 | Ralph Parker | BBC-TV | F.W.Dennis | London | England |
| CJIC 2 | QSL Card no signer | WTHS 2 | Vera Bronson, | director | |
| WSB 2 | R.A.Holbrook C.E. | WTIC 3 | Harold Dorchug | Dir.of eng. | |
| CBWT 3 | Wayne Kines info service | WTVJ 4 | John Shay | V.P. | |
| CMBF | network QSL no signer | WABI 5 | Leon Nelson | program dir. | |
| WPSD 6 | E.J.Poll teck dir. | CMQ | network vice president | | |
| WNAC 7 | I.B.Robinson teck.dir. | WTVD 11 | Roy Fullen | C.E. | |
| WRDW 12 | Joseph Gill C.E. | WAST 13 | Elmer Snow | C.E. | |
| WGAN 13 | Roger Hodgckins C.E. | WINR 40 | G.Ricciardelli | teck.dir. | |

Call	Week days	saturday	Sunday	
WCBS 2	0615 0300	0645 0300	0745 0300	New York
WTIC 3	0720 0115	0800 0230	0800 0115	Connecticut
WRCA 4	0555 0155	0655 0200	0655 0200	New York
WBZ 4	0600 0230	0630 0230	0645 0230	Massachuttes
WNEW 5	0750 0045	0755 0045	0825 0045	New York
WABC 7	0726 0105	0756 0050	0756 0105	New York
WNHC 8	0615 0120	0800 0315	0800 0115	Connecticut
WOR 9	1045 0130	1040 0105	1015 0035	New York
WJAR 10	0630 0100	0800 0030	0800 0030	Rhode Island
WPIX 11	0950 0110	1230 0030	1130 0115	New York
WNTA 13	0830 0130	1000 0030	1130 0115	New Jersey
WPRO 12	0700 0105	0800 0135	0830 0100	Rhode Island
WHCT 18	1530 0030	1530 2340	1300 2330	Connecticut
WWLP 22	0630 0105	0800 0135	1000 0030	Massachuttes
WRLP 32	0630 0105	0800 0135	1000 0030	Massachuttes
WHYN 40	0830 0100	0900 0005	1000 2315	Massachuttes
WNBC 30	0600 0105	0730 0100	0830 1000	Connecticut
WICC 43	1830 2300	1900 2200	1800 2230	Connecticut
WATR 53	1130 2300	1800 0000	1730 2305	Connecticut
WWOR 14	1700 2300	? ?	? ?	New York
WHIS 6	0558 0102	0858 0032	1025 0002	West Virginia
KHOL 13	1000 ?	1000 ?	1200 ?	
KHPL 6	1250 0010	1130 0010	1300 0010	

Here is some test pattern information

- Stations using RCA monoscope TP's WGR 2 WPMY 2 WMT 2 WSYR 3 WKY 4
 KARK 4 WJAC 6 WCNY 7 WTRF 7 WMAL 7 WHEN 8 WVET 10 WDAU 22 WINR 40
 WGBH 2 WTAR 3 WBTB 3 KDAL 3 WSM 4 WTMJ 4
 CBS TP's WCBS 2 WBBM 2 KMOX 4 WICU 12 WECT 6 WCSH 6 KGLO 3 KTVR 2
 KHAS 5
 RTMA with call--KPRC 2 KTCA 2 WSAZ 3 WAGA 5 WJBF 6 KTVH 12
 IHTP no call-- WNBC 30 KVOO 2 CKSO 5 CBLT 6 WMCT WFRV 5 WATE 6 KCEN
 KSD 5 KTBS 3 WSAZ 3 KARD 3 KYTV 3 ESAV 3 KTVI 2 KATV 7
 IHTP with call-- KFDX 3 WJIM 6 WOOD 8 WIIC 11 KPLR 11 WLBT 3 KOTA 3
 KCMO 5 WBAP 5 KRLD 4 WOC 6 WOW 6 KFDM 6 KFEQ 2 WTMJ 4 KMTV 3 KTVO 3
 KTTS 10 KTBC
 Bulls Eye TP-- KDKA 2 WJBK 2 WLWD 2 KYW 3 WBEN 4 WTAE 4 WEWS 5 WPSD
 KOTV 6 WKBW 7 WXYZ 7 WJW 8 CKLW 9 WHEC 10 CPPL 10 WFBG 10 WCAV 10
 CHCH 11 WBAL 11 WTOL 11 CKCQ 13 WQED 13 WSPD 13 WBAY 2 WTVN 6 WCIA3
 WNBQ 5 WNEW 5 WRCA 4 WBZ 4 WHDH 5 WLWT 5 WPTV 5 WABC 7 WOR 9 WTIC 3
 WNHC 8 WNEB 17 WWLP 22 WRLP 32

Thanks for this information John I made one correction WLWD 2 now has a new test pattern it is the same as WLWT now.

Walter W. Spaulding
 R.D.# 3 Box 168 Cardington, Ohio

AMERICAN IONOSPHERIC
"RANK COLUMN"

FEB. 1960

PROPAGATION ASSOCIATION
by Walter Spaulding

Following is a complete list of stations with distance and type skip

KNXT	2	Los Angeles	115	Tr.	KING-TV	5	Seattle	850	ES
KTVU	2	Oakland	225	"	KFBC-TV	"	Cheyenne	900	"
KTVR	2	Denver	860	Es	KSEY-TV	-6-	San Luis Obis.	75	Tr
KBOI TV	2	Boise	590	"	XETV	"	Tijuana, Mex.	250	"
KCKT	2	Great Bend	1170	"	KTVC	"	Ensign	1100	Es
WJBK TV	2	Detriot	2040	"	KHPL-TV	"	Hayes Center	1080	"
KFEQ TV	2	St. Joseph, Mo.	1400	"	WOW -TV	"	Omaha	1360	"
KOOK TV	2	Billings, Mont.	930	"	KOTV	"	Tulsa	1340	"
KNOP	2	North Platte	1100	"	KPLO-TV	"	Reliance	1220	"
KDIX TV		Dickenson, N.D.	1200	"	KCEN-TV	"	Temple	1340	"
KVOO TV	2	Tulsa, Okla.	1340	"	KSVD-TV	"	Wichita Falls	1220	"
KDKA TV	2	Pittsburgh, Pa.	2200	"	KHQ -TV	"	Spokane	850	"
KMID TV		Midland, Texas	1050	"	WITI-TV	"	Milwaukee	1800	"
KPRC TV	2	Houston, Tex.	1500	"	High Band are reported as all Trop.				
KREM TV	2	Spokane, Wash.	850	"	KABC-TV	7	Los Angeles	115	
KTWO TV	2	Casper, Wyo.	860	"	KGO -TV	7	San Francisco	225	
CHCT TV	2	Calgary	1110	"	KVIP-TV	-7-	Redding	400	--
CHBC TV	2	Kelowna	1000	"	KSDW-TV	-8-	Salinas	750	--
CBUT	2	Vancouver	970	"	KFMB-TV	8	San Diego	220	--
CKCK TV	2	Regina	1300	"	KHJ -TV	-9-	Los Angeles	115	--
KEY-TV	-3-	Santa Barbara	80	Trs.	KQED	9	San Francisco	225	--
KCRA TV	3	Sacramento	240	"	KERO-TV	10	Bakersfield	45	--
KARD TV	3	Wichita, Kan.	1260	es.	KXTV	10	Sacramento	235	
KID TV	3	Idaho Falls	690	"	KPSD-TV	10	San Diego	220	
KTBS TV	3	Shreveport, La.	1510	"	KTTV	-11-	Los Angeles	115	--
WLBT	3	Jackson, Miss.	1730	"	KNTV	11	San Jose	175	--
KRTV	3	Great Falls	950	"	KFRE-TV	-12-	Fresno	100	--
KMTV	3	Omaha, Neb.	1360	"	KHSL-TV	12	Chico	315	--
WNBK-KYW	3	Cleveland, Ohio	2110	"	KCOP	-13-	Los Angeles	115	--
KDLO TV	3	Florence, S.D.	1370	"	KOVR	13	Stockton	210	--
KOTA TV	3	Rapid City, S.D.	1070	"	UHF all Trop				
KFDX TV	3	Wichita Falls	1220	"	KLYD-TV	17	Bakersfield	25	
CFRN TV	3	Edmonton	1300	"	KMJ -TV	24	Fresno	90	
KRCA	4	Los Angeles	115	Tr.	KVVG	27	Tulare	80	
KRON TV	"	San Francisco	225	"	KBAK-TV	29	Bakersfield	25	
KOA TV	"	Denver	860	Es	KSAN-TV	32	San Francisco	230	
KTIV	"	Sioux City	1360	"	KTVU	36	Stockton	200	
WDAF-TV	"	Kansas City	1420	"	KCCC-TV	40	Sacramento	230	
KDUH-TV	"	Hays Springs	1050	"	KJEO	47	Fresno	100	
KXJB-TV	"	Valley City	1400	"	KBID-TV	53	Fresno	90	
WKY -TV	"	Oklahoma City	1250	"					
KGNC-TV	"	Amarillo	1010	"					
KBST-TV	"	Big Springs	1050	"					
KRLD-TV	"	Dallas	1330	"					
KROD-TV	"	El Paso	800	"					
KGBT-TV	"	Harlingen	1500	"					
WOAI-TV	"	San Antonio	1320	"					
KOMO-TV	"	Seattle	850	"					
KXLY-TV	"	Spokane	850	"					
KTLA	-5-	Los Angeles	115	Tr.					
KPIX	"	San Francisco	230	"					
KCSJ-TV	"	Pueblo, Colo.	860	Es					
KKAB-TV	"	Hastings	1130	"					
KHAS-TV	"	Hastings	1230	"					
KFYR-TV	"	Bismarck	1280	"					
KOCO-TV	"	Enid, Okla.	1220	"					
WDAP-TV	"	Ft. Worth.	1300	"					
KENS-TV	"	San Antonio	1320	"					

Thomas J. Hidley, Chicago, Ill.----Via Ms, Dec.24,WKY-4; Dec.29, WOAI-4 Held for 5 minutes. Dec.30,WFMY-2; Jan.9,KRLD-4. On Jan.9,trops, KWVL-7; Jan.10,KMOX-4; Jan.11,WMTV-33; Jan.13,WTVH-19 WEEK-43 WICS-20; Jan.14,WHO-13. His log is still at 120.

David Kanaar, Buffalo, N.Y. (new member)---- On Dec.22,trops, CFPL-10 CKNX-8 WJW-8 WHEN-8 CKLW-9 KYW-3 KDKA-2; On Dec.25, same as above plus WNEM-5; Jan.9,KDKA-2 WJBK-2 WEWS-5 WJW-8 CKLW-9 WLWC-4(tent.). Thanks for the report Dave.

Hermione Burritt, Waterloo, N.Y.----On Jan.12,KGLO-3 via Es. His log is at 83.

Billy Draeb, Kewaunee, Wis.----Via Ms,Dec.27,WCBS-2; Dec.31,WRZ-2 Jan.3,CJBR-3; Jan.6,WMAR-2. A few bursts on ch.7 no IDs. Dec.25,trops, WILX-10 WJRT-12 CKLW-9; Jan.3,WJRT-12 WILX-10; Jan.13,KCRG-9; Jan.14, WTHI-10 WHBF-4 WJRT-12 WISH-8 WILX-10 WXYZ-7; Jan.17,KCRG-9 WILX-10 WJRT-12 WJBK-2.

John Cody, Middletown, Conn.----Via Es,Dec.27,WUSN-2; Jan.9,WRZ-2 Jan.10,WRZ-2 WLBT-3 WCBI-4. On Dec.29,trops,KEZXY-6 located in Camden N.J. Via Ms,Dec.28,WMCT-5; Dec.30,WFBM-6; Jan.5, WLAC-5 WAGA-5; Jan.11, WLAC-5; Jan.15,WEWS-5; Jan.19,WNBQ-5 WRAL-5 WLAC-5; Jan.20,WCTV-6; Jan. 21,WLAC-5 WMCT-5; Jan.22,WCYB-5 KFDX-5(John reports KFDX-3 came in on ch.5 explanation for this sort of thing is unknown. Jan.25,WPTV-5 WLAC-5. His log is at 221.

Frank Wheeler, Erie, Pa.----Via Es,Nov.23,KHQ-6 (1860 miles)verified Via trops, Jan.7,WNEM-5; Jan.11 and 21,23 WNEM-5. Also some un IDed Es on Jan.2 and Jan.6. His log is now at 133.

Bill Nieman

16 Wasson Street

Buffalo 10, New York

February 1960

AIPA

FM DX

Bryan Rawlings VE2AME

Montreal, Canada

In the last issue of the Bulletin your comments were invited on the question of whether or not you felt that the AIPA should include in its program listings of FM-DX and possibly a regular column on the subject. The many members who wrote to me seem to be in favor of the idea so this month this column is being offered as a trial balloon. I will try to cover a bit about FM and its DX characteristics and if you members give the support I hope you will we will include this as a regular feature. If we get off OK I would like to see someone take over the duties as FM editor since I don't feel that I might have the time to devote to two columns and maybe one column is enough of me in the Bulletin - hi.

The commercial FM band is divided into 200 channels in the portion of the spectrum running from 88 to 108 mc. and this places it just above TV channel 6 (82 - 88 mc.) This is a ~~xxx~~ strategic part of the VHF spectrum because it gives us an extension into a part of the spectrum that we as TV-DX'ers should be interested in. For one thing during a good Es opening in which DX can be noted it would be to our advantage to know how far above channel 6 the DX extends. FM could give that answer.

There are at present three methods used to provide FM reception: 1; A tuner is used to feed an audio amplifier, 2; A straight FM receiver is used, 3; A converter is used with a standard TV set. The first method is perhaps the best. The straight FM and the converters on the market today do not seem to come up to the sensitivity ratings of the better tuners available today. Sensitivity in FM tuners is a deciding factor in evaluating the DX performance of an FM tuner. The usual rating method is to express the amounting of quieting that will be noted for signals of certain strength. For example an FM tuner might state that its sensitivity is 2 microvolts for 20 decibels of quieting. This means that with a signal of 2 microvolts (2/1,000,000 volts) the background hiss that is normally heard between stations will quiet by 20 decibels (about 1/14th is usual level). In general the more quieting that a tuner gives for the weaker a signal the better it is. The factor of fidelity is not too important if you are only interested in DX but specifications as to ability to separate stations are important.

The antenna that you use for FM is also important. The regular TV antenna is often good for local FM reception but many all-channel antennas are designed to have poor response on the FM band to avoid interference to TV reception. Yagi antennas are available for the FM band and one of these on your regular mast using your existing rotator (if it can support it - hi) would be ideal.

John Cody writes me to say that he feels a FM column would be a good idea and would like us to publicize this fact in magazines to get some new blood into the club. Lets hear your comments on this. Don Voegelé writes to say he uses a Heath PT-1 tuner and has heard Ohio and Michigan and this with only "rabbit ears". Dennis Smith reports that he used a Silvertone AM-FM receiver in 1952-3 and enjoyed excellent tropo from Northern California at the time. Thanks to you and the rest who wrote in with your comments and lets hope we can get this column rolling.

73's for this month and good FM-DX.

Bryan

Southern DX
February, 1960

-Compiled by: Donald Ruland,
834 8th St., Holly Hill, Fla

A very poor month indeed, judging from the number of reports received here. But of the two reports this month, both indicated DX was good for this time of year at the particular locations. Common Southerners ...lets show those Yankees where the DX is!!

Bedford Brown, Hot Springs, Arkansas--Via Es: Dec19--WGR-2, CBFT-2, WROC-5, CJIC-2; Dec25--KLRJ-2, KUTV-2, KSL-5, KTVR-2, XEW-2; Dec-26-31--XEW-2 (note); Jan2--XEW-2, XEZ-3, XHGC-5, XHTV-4. Via trop: Dec19-Jan2--stations in the 225-550 mile range seen. His log remains at a very enviable 340. Bedford was in Hot Springs for the Christmas holidays...he's back in Austin now.

Donald Ruland, Holly Hill, Florida--Via Es: Jan9--WTIC-3, WBZ-4, KMTV-3, KARD-3; Jan10--WTIC-3, CKRN-4 (new), CKVR-3, WCAX-3; Jan27--KMTV-3. Via trop: Jan8--WSB-2, WIS-10, WSPA-7, WLWA-11 (new), WSPA-7; Jan10--WREH-4, WSB-2, WKRC-5; Jan17--WSB-2. Via MS: Jan1--WLWD-2; Jan5--WLWD-2; Jan16--WBEM-2; Jan17--WGR-2, WCBS-2, WLWD-2; Jan18--WCBS-2, WLWD-2; Jan19--WLWD-2, WTAE-4; Jan20--WLWD-2; Jan21--WMAR-2, WFMY-2 (new), WLWD-2; Jan22--WCBS-2; Jan23--WBEM-2, WJEK-2, WGR-2; Jan24--WCBS-2, WLWD-2, KMOX-4, WSYR-3, WBEM-2; Jan25--WLWD-2; Jan26--WRC-4, WLWD-2. Log now at 139, with 3 new this month.

Frank Wheeler and I have been carrying on a little TV DX contest for several months. Perhaps the AIPA could have a little contest section in this column each month, listing entrants' standings. Here are the rules: Ch. 2-6: 1 point for each station received, 2 points for each station verified, plus extra points as follows--1 point for 150-300 miles, 2 points for 301-500 miles, 3 points for 501-800 miles, 4 points for 801-1000 miles, 5 points for 1001-1500 miles, 6 points for 1501-2000 miles, 10 points for 2001-over; Ch. 7-13: 1 point for each station, 2 points for each verie, plus these extra points--1 point for 100-200 miles, 2 points for 201-400 miles, 3 points for 401-600 miles, 4 points for 601-800 miles, 5 points for 801-1000 miles, 6 points for 1001-1300 miles, 10 points for 1301-up. No UHF, since many members have none. If you would like to enter (contest open to ALL AIPAers), just figure up your total number of points, and send it to me each month. If there are any questions, just ask Frank Wheeler or myself. Incidentally, Frank originated th is contest. No prizes, just the fun of competing.

The SDX Salute goes out this month to B. J. Bingham, top-ranking AIPA member from Festus, Missouri. B.J., 54 years young, is a retired glass-worker with 40 years of service behind him at Pittsburg Plate Glass Company. His DXing equipment is made up of: a 1957 RCA 21" TV, CDR & Alliance rotors, 2 Winegard CL4X antennae, Channel-Master Champion stacked two-bay antenna, and a 35' mast. He plans to double the height of his antenna soon, now that he is retired and has plen ty of spare-time. 215 stations from 41 states, 7 Provinces, Cuba, and Mexico have been seen since he began the hobby in July, 1955. Bingham, known by newspapers as the "nirrod of the air-waves", has attended every AIPA convention since becoming a member. He has sent his enormous TV photo collection all over the country, and has had them appear in nation-wide magazines recently. The 'ole' SDX hat is again tipped to another fine AIPAer!

This is about the limit for now. Hope the coming month brings lots of DX to all!

73's and best DX,

Donald Ruland, SDX

February 1960

AIPA

INTERNATIONAL TV DX COLUMN

Bryan Rawlings VE2AME

Montreal, Canada

Well this brings us into the month of February and the good DX seasons not so far off. The month of January was not altogether off for TV-DX and one good Es skip opening was noted on the 10th when ch.4 WRBL-TV was seen here with an excellent signal. A number of similar out of season Es openings have been noted in recent years in this time period and will bear watching in the future.

REPORTS: Dennis Smith sends me a report of signals heard on 35 and 43 mc. on the dates of Dec. 19, 20, 21, 22, 23, 24, 28, 29, 30 and 31. He reports paging stations heard from Texas, Fla., and N.Y.C. Thanks Dennis. John Cody reports F2 nil at his location this past month. He does report trying a transistor receiver but reports only police calls heard-very good anyway, John. B. J. Bingham has sent me another clipping with a very nice write-up about himself and good mention of the AIPA. Very good Bernard and it's nice to see the ole AIPA getting that publicity in Festus anyway.

The following from Frank Hill in Gallipolis, Ohio:

CMQ Stations and affiliates - Circuito CMQ, S.A. Radiocentro, Habana Cuba.

WAPA-TV Ch. 4 - Ponce de Leon Broadcasting Co. Inc., Box 2050, San Juan, P.R.

HIT-TV ch. 4 - La Voz Dominicana, Palacia Radio Televisor - Ciudad Trujillo, Dominican Republic.

XEW-TV - ch. 2, Ave. Chapultepec No. 18, Mexico City, Mexico.

CKCW-TV ch. 2 - Moncton Broadcasting Ltd., Halifax St., Moncton, N.B., Canada

CBHT ch. 3 100 Sackville St., Halifax, N.S.

CBOT ch. 4 - P.O. Box 1045 - Ottawa, Ontario.

CJIC-TV - Hyland Bldg., 119 East Street, P.O. Box 370, Sault Ste. Marie, Ontario.

CBWE ch. 3 - ~~XX~~ Box. 160 - Winnipeg, Man., Canada

CFRN-TV ch. 3 - Sunuapta Broadcasting Co. Ltd., CPR Bldg., Edmonton Alta.

CKX-TV ch. 5 - 2940 Victoria Ave., Brandon, Manitoba.

Thanks Frank and I hope we all see those stations this year.

A number of you commented on my notes on the amateur TV operations in the 420-450 mc. region. Some felt that receiving these stations should not be counted as regular TV-DX. It's a matter of your own personal preference of course but I feel that since this would be a bona fide reception of a television station by a DXer there is no reason why we could not count it. Because the station is not commercial or because it may not keep regular hours to me does not the technical facts that the DXer managed to log the station and should give himself credit for it. As for equipment, I might mention that I do not at present have conversion equipment for the ham-TV transmissions here but those that do have assured me that any decent UHF converter can be modified to tune the band. When and if I get around to doing this myself I'll pass my results along. In the meanwhile for the ambitious types there is an excellent converter on the market at present. The Electron Corp., Box. 5570,, Dallas 22, Texas manufactures a converter for the band at \$99.50. They also market a whole line of Ham-TV equipment. (Continued)

INTERNATIONAL TV-DX COLUMN CONT.....

A complete article on Ham-TV appeared in the June 1959 issue of Popular Electronics.

Just in passing this month's issue of QST, an amateur radio magazine has a very good article on propagation and it doesn't get too involved so it's well worth looking at.

Since reports are slim this month and prospects are poor for the coming month I will delve off IDX for a bit and describe a method that may enable you to receive a fringe station with a fair picture even with a near-local on the same frequency. - If you have a weak signal on a channel that is occupied by a local station of fair strength and all you can get at present is a venetian-blind pattern from the other station try this. Divide the video frequency of the interfering station (55.25 mc. on channel 2, for example) into 468. This will give the length of a ~~xxxx~~ half-wavelength in feet. Cut some 300 ohm TV "Twin-Lead" to this length leaving about an extra inch on each end of bared wire. Short the two bared wires together at each end and solder. At the middle of the length of Twinlead cut one side of the twinlead and feed here with some more 300 ohm twinlead to run back to your set from some convenient point such as a balcony or attic. The half-wavelength of Twinlead forms a simple folded dipole antenna and should be placed broadside to the interfering station in a horizontal position. Then aim your regular TV array at the desired station and connect the small dipole antenna in parallel at your set's antenna terminals (same as your regular antenna.). With a little experimenting with the positioning of the dipole you ought to find a point where the interfering station falls off in strength but the ~~xxxx~~ desired stations comes in. You can also try reversing one set antenna leads or shortening the length of the folded dipole. The theory behind this is that the signals picked up by the two antennas when fed to the TV set will tend to cancel out but the desired station will probably be picked up only on the large array and hence will not be cancelled. This method is not always 100% effective but is worth trying. It will only work for one channel, of course and the folded dipole should be disconnected for all other stations.

For those of you who have been corresponding with Phil Jacobs and myself by tape, ~~xxx~~ the machine that we have been using is presently out of order and we won't be able to answer tapes received until we get it going again (soon I hope). At present tapes from Art and Dennis Smith are being held up for that reason.

For February be on the watch for some minor tropo disturbances which may make DX interesting in what otherwise will probably be a poor month. Es skip is not expected (I said that last month, too - hi) and F2 will be on the downslide. Watch for aurora, though, it may give some surprises. There are no meteor showers scheduled for this month but the probable absence of tropo signals on the low-band channels may make us good this month for those who will stick with it.

Here in Montreal a new TV tower will be built on Mount Royal (in the center of the city) to house all four stations plus all FM stations. The tower will be right beside the existing tower which will be dismantled.

Well, that's it for this month. Keep those reports coming and best of DX to all and Happy Groundhog Day - hi.

"THE IMMENSITY OF SPACE"

T V D' Xers are really space hunters of the 19th century. No blinds, or a hunting license, not even a decoy. T V D' Xers somtimes pick up a distant T V Station, without the aid of a special trap. The station may duck in for a few seconds as clear as a bell, then out again, maybe reappearing three minutes later. It is called "Meteor Scatter". Many of our fellow T V D' Xers have their cameras set in front of their television ready for capturing a pattern. This requires real trigger action on the part the D' Xer. All adds to his loggings along with his verifications from T V stations across the country.

As a T V D' Xer it is possible that you have one of the largest receiving stations on your side of the city. Some of your neighbors look up to you as some electrical genius, others say, that boy has missed the boat, or the bird has a broken wing and is completely grounded. The same people that have made these comments may still have some hobby, like fishing or golfing. Yet their hobbies are to their own liking. T V D' Xers take great pride in bringing in distant T V station, and watching a program several hundred miles away from their locations.

Thousands of families who live in the fringe areas are without televisions. Why? No one has prompted them, or told them how to get the proper gear for the use of a television in the fringe area. This is indeed a market for selling fringe area T V Receivers, and gear, thus bringing civilization and entertainment directly into their homes in these forgotten parts across this American Continent.

To-day with all the modern electronic testing devices, The Television Industry, super antennas, rotors, and towers, can make this a reality by more research and effort. The acreage of space is there, all can greatly benefit by its' great possibilities, the user as well as the manufacturer. Space has no limit, progression never stands still, all of this can be utilized in due time.

The Finney Company of Bedford, Ohio, manufacturers of antennas, sends out a truck with a crank up tower with several double stacked antennae to various locations. This is a mobile unit containing a complete laboratory of test instruments installed right in the truck. You can be sure that this company can get the right answers under test. Research on wheels mobilized. Just another step in the right direction.

Members of this outstanding AIPA T V D' Xers club have contributed in many ways, bringing this to light through their untiring efforts and research. We can say this is the real proving grounds for all kinds of T V Gear. The Presidency of this organization has received hundreds of inquiries from all over the Nation. The Public and the Manufacturer.

Special listening post may be called the AIPA Bulletin, this keeps us 'hep' to what is going on across the country. We all stand fully united, that all will benefit from the knowledge we gain from each other. If this subject of space interest you, I will be glad to carry it further in the following issues of the bulletin. Your comments will be appreciated.

Warmest regards to all,
Thomas J. Hidley

As TV DXers, we watch more TV stations than anyone else in the TV viewing audience. Like anyone else, we form our opinions of the stations regularly received. We also hold an advantage over the non-DXer, in that we correspond with many stations, and can learn much about the station.

The weather is of interest to all, especially to those who make use of it other than planning picnics or going to the beach. 95% of the population only wants to know whether it will rain, storm, get colder, or what have you. Thus, 95% of TV stations only tell their audience the weather forecast in as brief form as possible.

But what about the other 5% of the population and TV stations?? TV DXers are included in this minority, along with aviators, hams, seamen, etc. We appreciate a thorough forecast along with some "weather extras". This is where this special article comes in, saluting station WTVT-13 in Tampa-St. Petersburg, Florida...an "elite" station.

WTVT first went to the air-waves on April 1, 1955. Since those early days, WTVT has expanded to become not only the giant of the Tampa Bay area, but of the entire Southeast United States.

Under Chief Engineer William U. Witt, WTVT's engineering department is made up of 15 full-time engineers. 30% of WTVT's programming is live, out of its two studios or from remote locations. Unlike the "local live" programming we are used to, shows originating from WTVT studios are well-organized.

But on to the main topic... WTVT has one of--if not the--finest weather departments of any TV station in the world. WTVT is one of two stations in the entire Southeast U.S. to present Radar Weather from its own studios. The "WTVT Radar Weather Eye" can scan out either 175 or 50 miles in all directions of the Collins Radar set.

WTVT's weather department, under Chief Meteorologist Roy Leep (a professional member of the American Meteorological Society) and assistant weatherman Jerry Peterson, also set up the Central Florida Severe Weather Network. This is an official weather network comprised of 125 observers throughout Florida.

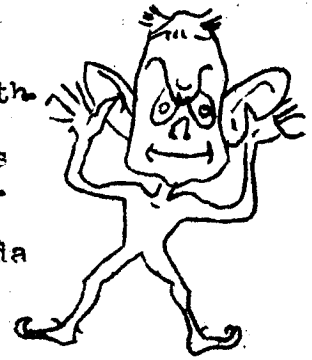
WTVT has 3 teletype circuits and an extra one during Hurricane season to insure complete information. In addition, an extensive array of weather instruments is located in and around the station. Many times, six hours of work are required to compute information for a ten-minute weather program! Some of WTVT's weather station's equipment includes: an automatic recording rain gauge, a recording barometer, facsimile map recorder, lightning stroke counter, and wind measuring and direction indicators.

WTVT has 10 regular weather programs daily, along with Radar checks during severe weather, for a total of 30-60 minutes of weather information a day!!

Here in Holly Hill, WTVT-13 has helped me log much more DX than they have blotted out.....a local no TV DXer minds contending with!



Well, HI to all of you. Another month and another column to get out. At the moment that I'm writing this, it is snowing here, making me glad that I'm in here doing this rather than outside in the cold. A few letters came in last month just after I mailed the stencil in to King..guess I was kinda early..anyway just wanted you to know that you were left out only because stencil was already in...we shall print this info this month.



GORDON SILKIN of Idaho Falls, Idaho, wrote that he had the BBC audio on Nov. 20th..his only European TV-DX this year. On Dec. 11th KCOK-2 was IDed by tropes (new). On Dec. 20th, Es were in from WBRZ-2 at 1,460 miles, new, longest Es logged) and unided on Ch. 4. (saw them thro 2000 ID, and they had NO ID.) Thanks for report.

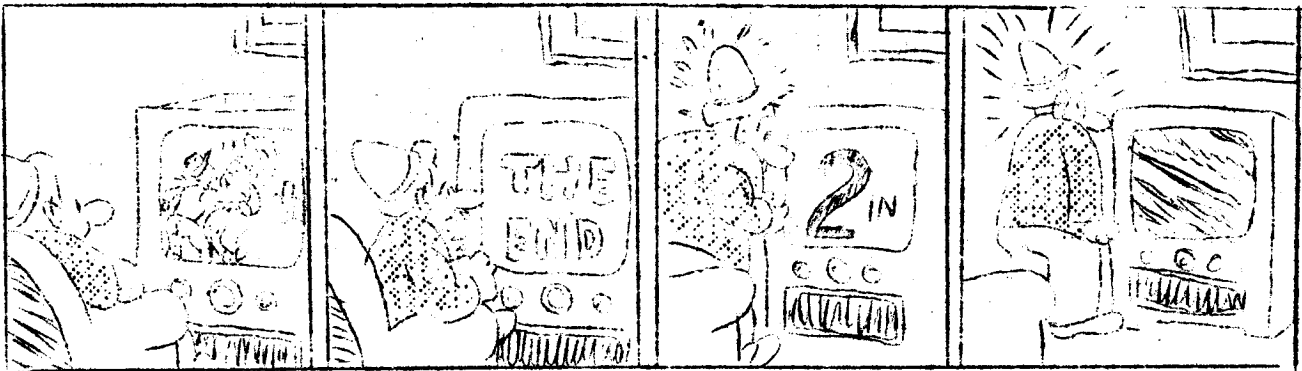
MORRIS FOOTE of Middleton, Idaho wrote that there was alot of ms on low band channels during the month of Dec., but only one ID, and that was a new one for him...KFBC-5. Also several times he rec'd a burst on ch. 13, but no ID..maybe some day, Morris! On Dec. 27th, he rec'd color test bars with a faint outline of a IHTP in the background, with a tone for audio. He thinks this is KVOO-2 in Tulsa, Okla.,: Nov. 29, unid on ch. 13 via MS/Dec. 1, unid on ch. 13, via ms/ Dec. 6, unid on ch. 4 by Es/and KFBC-5 by ms. Dec. 15, and 16 unid on ch. 13. Dec. 27th KVOO-2 by Spordic E.

JIM DILLON, of Regina, Sask, writes that he is in Prince George, BC. At least I should say that he was there for Christmas. The only TV that they have there is a closed circuit..piped in, PG-TV ch.4 He has seen no DXers there in the city of 12,000. Notes that BCB reception seems to be very good there..just no live TV.

EDWIN SHORLY, of Derby, Kansas wrote that he rec'd some Es during the last of Nov. and the first part of Dec...Nov. 28th, WUSN-2/Dec.4 WUSN-2/Dec. 8, WELY-2/ and Dec. 15, KOMU-8 by tropes.

PERCY COX of Visalia, California wrote that he rec'd 2 days during Dec. of DX. It only lasted 20 minutes each time and faded out slowly at the end..but was some DX. Dec. 7, KLID-2/KCKT-2/KARD-3/and on Dec. 24, KCKT-2/KARD-3/. Lots of things going on with the local TV station wanting to come on the air as Ch. 27..let us know the outcome of all of this Percy.

DENNIS SMITH of Wasco, California writes that while he was home for the holidays he rec'd the paging stations on 35 and 43 mc, by what he thinks is F2 skip..the distances involved are greater than for E skip. The first day he was home, Dec. 19, was the best day, with all sorts of stuff coming in..with the paging stations on 43 mc piled up knee-deep. No BBC though...Some of the paging stations rec'd were from..Houston, Texas, unid from Eastern US Miami, Florida, Ft. Wayne, Indiana, Tampa Florida, New York, Orlando, Florida. Also a tape is on hand from Dennis. Thanks for both the tape..and report.



"THE JOYS OF BEING A DXER...."

GORDON SIMKIN, of Idaho Falls sent me the above cartoon to draw on the stencil..Thanks alot Gordon!

Ron BOYD, of Nova Scotia, wrote a long letter about his teaching, which I found most interesting, and also noted that no Es have been seen there yet. His low band antenna blew down, but he got 3 and 5 back up.

EDDIE ALBRIGHT of Medford, Oregon, sent me a surprise..a letter. Enclosed in the letter were 2 photos of Ed and his young son.. real cute too Eddie..I mean the young one! Hi. Still no TV set in the Albright household, , so no dx since last summer when seen over at his folks house. Such a pleasure to hear from you again Eddie, don't wait so long next time!

RAY O'NEAR of Zillah, Wash., writes for the first time in about 4 months, and tells of some bad luck. On Nov. 25, their house burned down, so of course no antenna to dx with. He plans to try and get the antenna back up before to long. His tape recorder got burned, but he fixed it so it will play, altho it will not record. A new station up there is KNBS in Walla Walla, Wash. on ch. 22, and is a ABC-CBS station, and is an affiliate of KNDO-TV in Yakima, Wash. Sorry to hear of the fire, Ray.

RAU'L MEDINA V. of Managua, Nicaragua, became a new member this past month..and we're most proud to have you Rau'l. He reports that in Jan. he saw a station from Cuba..ch.2 and 3. and on Jan. 19, he saw ch.2 and 3 from the U.S...no ID's, and on ch.3 he saw a program called: Russian Conversesional for Florida West Coast. no ID again, but both station and the sound were perfect..as if they were a local station.

DENNIS SMITH of Wasco, Calif., writes that he was lucky and received some F2 skip, up to 43mc and a little E skip also. Dec. 19, paging stations on 35 and 43 mc. up to 2,400 miles. Dec. 20, paging stations on 35 md, Dec. 21, paging stations on 35 and 43 mc. Dec. 22-24, paging stations on 35 mc. Dec. 24, KCKT-2 by skip KARD-3 by skip and Dec. 27 to 31 paging stations on 35 to 43 mc. Dec. 29, some skip...unid ch.2 and 3 and WKY-4 at 1,250 miles.

MORRIS FOOTE, of Middleton, Idaho writes that this has been the best winter for TV-DXing so far since he began dxing in 53 and 54. Jan. 1, KROD-4 by ms/Jan. 3, WPAB-5 by ms/Jan. 4, KFBC-5 by ms/Jan. 5, KNXT-2 by ms/Jan. 10, KRCA-4 by Es/and a unid ch.5 from Texas. Jan. 11, KROD-4/XEJ-5/KUAT-6/KPHO-6/KNME-5/KOB-4/KTVK-3/KEDY-4/KFDX-3/KGNC-4/Jan. 16, KTVK-3 by ms/Jan 19, Neb. ch.6/Jan. 20, KTLLE ch.6 by trop..Did you hear Ed Hepp announce?

CON'T.....

JIM PIRCH of Richmond, Missouri writes that tropz during January were real poor, with nothing to report...e did receive a few Es, but no ID's. Jim notes that he now has 82.5% of his stions verified. Nice to hear from you Jim.

Our PRES...Art Collins has been ill this past month, here's hoping that by the time this is printed he is much much better..Why not sit down and drop him a card to cheer him up?

Dee Johnson...(Oh me?) received some long awaited Es on Jan. 11 and 12th. Jan. 6, KREM-2/KCKT-2/KUTV-2/KOOK-2/KLRJ-2/KTWO-2/KNOP-2/WGR-2/CJIC-2 or CFPA-2/ and many many others not id'd all by ms. Jan. 11th, by skip..KNXT-2/KLRJ-2/XEM-3/KRCA-4/KTVK-3/Jan. 12, KUTV-2/ KOA-4/KROD-4/unid ch.5/unid ch.2 and 3.

EDWIN SHOREY, of Derby Kansas writes that he hopes things have been a little better out this way..as DK has been worse there than he has ever seen it. However, he did mahage to log a few stations. Dec. 24, WMMR-2 by Es/WCBS-2 by Es/Jan. 11, KTVU-2 and KRON-4 by Es. Also on the 11th he received unids on ch. 5 and 6.

PERCY COX of Visalia, Calif., says in contrast that he thinks this was a very good dx month..and his log certainly speaks the same way. Dec. 7, KCKT-2/KMID-2/KARD-3/Dec. 24, KCKT-2/KARD-3/Jan. 11th, KDUH-4/KHAS-5/KGLO-3/KOTA-3/KDIX-2/WOW-6/KMTV-3/KTIV-4 NEW/WMT-2/CBUT-2/CFRN-3/KREM-2/KOMO-4/CKCK-2/. Real good dxing Percy.

Dee

Co-Channel Interference Column-----conducted by Bedford P. Brown, Jr.

Address-----Apartment 4, 2800 Rio Grande, Austin 5, Texas

I hope everybody had a nice Holiday season. I really appreciated receiving the Christmas cards from you. Thanks a lot. Sadly to say I couldn't find the time to send cards for the second year in a row.

Due to the complete absence of reports, the Co-Channel Interference Column was omitted from the January bulletin. Jim Pirch and Morris Foote sent reports for this month. I hope someone will be able to help them.

Unidentified Programs (All time is Eastern Standard Time.)

Jim Pirch, 221 West Lexington, Richmond, Missouri.

1. January 2-Channel 3-ES- 1:35-2:15am Old Movie (1929 or 1930's), Gangster Movie. Station didn't ID or take time for a commercial during that time.
2. January 6-Channel 2-ES- 8:05am-Today just starting local NBC (live network) had started five minutes before.
3. January 7-Channel 2-ES- 8:02am-Today already on air.
4. January 9-Channel 4-ES or MS- 9:05am IHTP (Indian-head), with call
5. January 9-Channel 2- 7:25-7:50pm (SATURDAY)-Man in Buckskin Suit looked like Hawkeye and the Last of the (Mohicans) It was sponsored by Camps or Campbell's. Then too much interference from KFEO blocked station ID, then add for Cam y Soap and Robert Taylor Detectives and another ad for Crest Toothpaste
6. January 10-Channel 2- 10:10am- Large size Comma's, Periods, etc.

Morris Foote, Box 153, Middleton, Idaho

Dec. 27, 1959

225pm ch5 video, seal of good practice, audio "next on Channel 5, Christmas in Connecticut.

Dec. 30, 1959

925am ch.2 (looked like a local newscast) mentioned Laredo and Pueblo, man standing in front of camera

Jan. 10, 1960

1110pm ch.5 Basketball film, Aggies and TCU, final score 35-41, sponsor-Electric Power Co. (Morris, it was probably ch.5 in San Ant., Bedford)

1127pm ch.4 two men talking about live polio virus

1135pm ch.4 Beginning of a Warner Bros. Movie starring Errol Flynn

1150pm ch.4 Art Glove talking about farm price supports (Name was ~~xxx~~ in front of him.)

1155pm ch.4 a play based on Bible (new testament) characters, events happening after death of Christ, a fiction account based on Bible characters. At 12:35pm intermission from the play, the ES ceased.

January 11, 1960

1020pm ch.6 Audio Main 4-8181 repeated at least twice (ES from Ariz. and Tex. was being received at the time.)

November 25, 1959 8:03am ch.2-Chicago Midway-audio, video-looked like some meat. (Mr. Hidley could this be a Chicago station?..BB)

Does anyone know where Houston, Nebraska, is? which part of state?

Best dx and 73s until next month, Bedford