

# "American Ionospheric Propagation Association"

## TV - DX

PRES.      SECY.

ROBERT SEYBOLD

BENNETT ROAD

DUNKIRK, N. Y.

Volume 4

Number 10

PUBLISHER

KING SCHAFFER

360 ZIMMERMAN BLVD

KENMORE 17, N. Y.

VICE - PRES.

ART COLLINS

68 AMBER ST.

BUFFALO 20, N. Y.

October 6, 1957

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AIPA Bulletin--Published first week of each month, 12 issues per year. Membership--\$2.00 per year (entitles one to monthly bulletins, report forms, membership card & miscellaneous items. Payable to secretary. Editorial....

According to reports coming in here for the month of September, our best tropics DX was in August as tropics DX dropped way off in September with only a very few occasions resulting in really good tropics DX. A rather poor month for DX and any kind of reception in general. There was considerable Northern Lights (aurora) reception reported, mostly unid as usual.

Word has been received from Bob Cooper of Fresno, California (Radio-Electronics TV DX editor) that there is a possibility that a European TV DX converter might be on the market sometime this mid-fall. As it is, Bob is negotiating with Gordon Simkin, and a electronics manufacturing firm in Walnut Creek, California to manufacture Gordon Simkins converter. If all goes well, this would be the ~~1st~~ first, and only I-DX converter on the market and open new fields in the DX field. Thought is also being given about the appropriate yagi antennas needed for I-DX reception in the 40-60 megacycle region, and manufacture of such also. Let's wish Bob and Gordon lots of luck in their efforts in regard to above.

Recent AIPA membership renewals include: Earl Mehnert, Buffalo, N.Y.; Robert Martin, Girard, Penna.; Ronald Boyd, Truro, Nova Scotia-Canada. New members in are: Ben Deibler, 178 Main Street, Wellsburg, N.Y.; George Bergen III, First & Washington Sts., LaGrange, Ky. A grand welcome and welcome to all above! A change of address: (new addresses)-Carlton Howington, Royal Palm Trailer Park, Homestead, Fla. and, Ronald Boyd, Truro, Nova Scotia.

Word has been received from Ray Escoffier of New Orleans, Louisiana, that it is with regret that he informs me that he will not be able to write and compile the column on test patterns and sign on times, etc, which was mentioned in last month's bulletin. A heavy school schedule including also a night school course put the compiling of his proposed column out of his reach. Anyway, I know that Spaulding's "Rank" and Collins FCC column will run info on test patterns, sign on times, etc ~~xxx~~ in their future columns to keep AIPAers posted on such.

The new up-to-date address lists (AIPA members' addresses) is now printed and will be out to all members in near future. Thanks to Art Collins and King Schaffer for this service.

A note to Bryan Rawlings of Montreal, Quebec... Your unusual reception which you made particular mention of in your letter as occurring on Sept 3, 4, 13, 21 & 23 was Northern Lights (aurora) reception I would say. There was considerable Northern Lights reception in the month of September.

Deadlines for November bulletin are as follows: Longview, Wash; Cardington, Ohio, Loma Linda, Calif, October 26th; Buffalo (FCC news), October 28th; Austin, Texas (Bedford Brown's column), Shelbyville, Ill, October 28th; Dunkirk (Eastern reports), October 31st.

That's it for this month. Best of DX to all & 73's, Bob Seybold

"Barney & UHF"-Part 1

As you all well know, both transmission and reception on UHF is much more critical and demanding, than its VHF counterpart. This is the very reason that very few AIPA'ers dx UHF, and then the bulk of those who do have some sort of UHF installation, make a very poor showing for themselves. This poor showing proves that on UHF you either have it or you don't. I would say by AIPA records, most don't.

The best AIPA members on UHF are: Bob Seybold, Barney Rauch, Carl Lupton, Art Collins, Ross Brown and a few others. These are from memory, so I am -sorry if you (a good UHF man) were left out. At this point I should mention, that on UHF or VHF, it is time and money that make the difference in ones final results. If you have a cheap outfit, you're shot before you start. Sure you can say: "I know such and such a fellow who got 900 miles on a \$10 converter", but you should just imagine at that rate what he would have got on a better rig!

To get under way Barney mentions he follows weather conditions for the purpose of establishing the relationship between this and DX conditions. This is a worthwhile project, and I believe several AIPA members do likewise. On this matter Barney finds that when the receiving area is under the influence of a high pressure system, QRM from local appliances, hams, and UHF sources, and that DX at the time is virtually nil. This also holds true here in Kenmore & Buffalo so it is not a regional condition. However when the receiving area is under the influence of a low pressure system, all UHF signals are intense, and the unwanted QRM virtually disappears. This also holds true in Kenmore, only the signals are not of such intense strength, unless the front is of a very high pro UHF propagation nature. Usually a once or twice a year happening. It seems very natural to assume that the amount of signal bent under these conditions, is in direct relationship to ones area, as some are very good and some very poor.

Barney finds when his area is 100 to 150 miles ahead of an approaching frontal system that his reception is best. Also, when the front is in the proper position, aiming the antenna along it will produce some very good DX of both a tropospheric and scatter nature. A frontal system which extends from west to east supplies the best DX in Peoria. This condition (west to east) was more prevalent in 1954 & 55 than it has been since. Most of the frontal systems this year have been of the north to south nature, rather than east or west. This is probably the reason for the very unusual DX in some areas this past season, where as some areas were well below par. In the Kenmore-Buffalo area, tropo of a North-South nature was better this year, but all other directions, and all other forms of DX were well below standard, especially E skip!

Barney also mentions that his weather data is not infalable, but from the way it checks here, it is well worth following.

Next month we will get into more detailed UHF facts as far as DX is concerned. You can add quite a few new stations to your log on UHF, so if you are thinking of such a installation, I can truthfully say you will find it worthwhile. If you ~~sp~~ spend enough dough, Hi!

More next month. -  
Best DX & 73's,  
King Schafer



Compiled by Art Collins

NEW GRANTS

- Ch 3 Tampa, Fla. 14Kw- 500' Twr.
- Ch 6 KOPR Butte, Mont.
- Ch 10 CJOX-TV Argentia, N. Fld.
- Ch 33 Champaign, Ill. 178Kw. 570 Twr.

APPLICATIONS

- Ch 2 Terre Haute, Ind. 100Kw-50Kw
- Ch 6 Miami, Fla. 100Kw-50Kw.
- Ch 10 St. Peterburg, Fla. 316Kw.
- Ch 66 (WJET) Erie, Pa.

WINR-TV ch 40 in Binghamton, N.Y. will become NBC-TV Oct 1st.

KELO-TV Sioux Falls, S.D. going to CBS-TV Nov. (was NBC-TV)

Shift- Ch 7 St. Cloud, Minn to Alexander, Minn 26.6Kw-13.3Kw.

CALL LETTERS ASSIGNED

- Ch 2 KWSL(TV) North Platte, Neb. Ch 6 WTAE(TV) McKeesport, Pa.
- KVIP-TV ch 7 Redding, Calif. changed from KVIP. Ch 7 KVII(TV) Amarillo, Tex.
- Ch 9 KVKM-TV Monahan, Texas. KTVX(TV) Muskogee, Okla. moved to Tulsa and call changed to KTUL-TV on ch 8.....
- Ch 12 WPFH Wilmington, Del. changed to WVUE-TV. Ch 25 KTRX Kennewick, Wash.
- Ch 31 WMBD-TV in Peoria, Ill.

DELETES

- Ch 6 KSEI-TV Pocatello, Idaho. Ch 9 KLOF-TV Flagstaff, Ariz.
- Ch 12 KAMT-TV Alpine, Exas. Ch 30 WQIX-TV Jacksonville, Fla.

MIS'L NEWS

- Ch 2 CHBC-TV Kelowna, B.C. Canada went on the air Sept 21st.
- Ch 3 WTIC-TV Hartford, Conn. went on the air Sept 23rd. 7:00 PM.
- Ch 4 CKRN-TV Rouyn, Que. Canada to go on in Oct. '57.
- Ch 4 WWL-TV New Orleans, La. went on the air Sept 7th. 100Kw. (CBS-TV)
- Ch 5 WHDH Boston, Mass. expects to be on test pattern mid Oct. they tell me to be on the watch for early AM hours tests 25th Oct on.....
- Ch 6 CHAT-TV Medicine Hat, Alta. Canada tests to start Sept 14th.
- Ch 7 Amarillo, Tex expects to be on by the end of the year. -KVII-TV.
- WCDA(TV) ch 41 to operate temp on ch 10 in Albany, N.Y.
- WTRI-TV ch 35 to operate on ch 13 in Albany, N.Y.
- WKTU(TV) ch 13 in Utica, N.Y. to go to ch 2. (will notify when...)
- WHYN-TV ch 55 Springfield, Mass to switch to ch 40 Sept 30th.
- WTHI-TV Terre Haute, Ind applied for ch 2 there. (now on ch 10)
- WTTW(TV) ch 11 in Chicago, Ill is now up to 275 Kw. power.
- \*It looks like there will be no KMOX-TV ch 11 in St. Louis, Mo. CBS-TV has purchased the Ch 4 KWK there. Thanks to B.J. Bingham for this news.
- \*There has been a try to move WICU ch 12 in Erie, Pa to Cleveland, Ohio thus making Erie a all UNF market. (Will learn of outcome later)
- WKST-TV ch 45 station of New Castle, Pa back on is to be at Youngstown Ohio and is to link up with ABC-TV. This is to be in Oct some time.
- WPTA(TV) ch 21 is on in Fort Wayne, Ind. (Don, will you confirm this)
- WKXP-TV ch 27 Lexington, Ky. did go on the air Sept 23rd.
- WBOY-TV Clarksburg, W.Va. expects to go on end of Oct '57.

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Re the Military after channels 2 to 6 .... John Parillo suggests each member can write to his Congressman asking him to support Rep. Bray's 9R. Ind.) bill HJ Reg 381 and also write to his Senator asking him to support Sen. Potters (R. Mich,) bill HJ Res 106. This is a commission to study the use of the spectrum for military use.

Thanks John.



Hi fellow members have quite a few sign on and off hours this month so here goes.

Edward rugel has the following. Central Standard Time

Station	Saturdays	Sundays	Weekdays	Station	Saturday	Sunday	Weekdays
KFBD-2	0700-2400	0730-2400	0630-2345	KVOC-2	0730-2230	0700-2330	0630-2400
KOKT-2	0830-2400	1130-2345	0700-2330	WMT -2	0700-0030	0700-0015	0600-0030
KYTV-3	1000-0030	1030-2345	0630-2400	KARD-3	0700-2300	0900-2300	0600-2400
KTVO-3	0800-2400	1130-2400	1030-2400	KGLO-3	0830-2345	1300-2300	0815-2300
KMPV-3	0700-0030	0700-0030	0530-0010	WDAF-4	0730-2330	1000-2330	0630-2400
WHBF-4	0700-0030	0730-0015	0600-0030	WKY -4	0715-0030	0830-2300	0615-2400
KONO-5	0700-0230	0730-2400	0600-0230	WOI -5	0900-0030	1330-2400	1100-2330
KGEO-5	1130-2230	1045-2400	0930-0030	KHAS-5	1145-2400	1200-2400	0900-2400
KOTV-6	0700-0045	0945-2345	0615-0015	WOC -6	0700-0030	0730-0015	0630-2400
KHPL-6	1115-2330	1300-2400	0915-2330	WOW-6	0630-0120	0645-2230	0600-0035
KOAM-7	0700-0030	1030-2330	0630-2400	KWWL-7	0730-2330	1200-2245	0630-2400
KTVA-8	1200-0030	1130-2400	1315-2400	KRMT-8	0645-2400	0730-0015	0600-2400
KLBC-9	0900-2330	0930-2400	0800-2400	KROG-9	1530-2345	1200-2330	1230-2300
KTTS-10	0700-0030	0800-0030	0630-0030	KAKE-10	0900-2400	0845-0030	0845-0030
KODE-12	0700-0015	0730-2345	0630-0045	KTVA-12	0700-2400	1100-2400	0630-2400
KOLN-10	0700-2400	0730-2400	0615-0010	WIBW-13	0700-2400	1730-0100	0530-2400
WREX-13	0700-2300	0730-2330	0530-2330	WHC -13	0730-2400	1030-2400	0630-2400
KHOL-13	1115-2330	1300-2400	0915-2330	Thanks Ed hope you have more soon.			

Some verie signers from Bedford Brown

KDLO-3	QSL Card no signer	WDEF-12	Morris Quave, Program Director.
WBIR-10	J, Rex Horton, Dir. of Eng.	WLAC- 5	Julian L. Tompkins, Studio Teck. Dir.
WSM - 4	George A. Reynolds VP. and Teck. Dir.	Kens-5	QSL Card.
WOAI-4	QSL Card no signer Box 2641	WCBY-5	A. V. Robinson, Chief Engineer.
WOHS-8	Bruce M. Johns, Promotion Dir.	KFBO-5	QSL Card no signer.

Our fellow member from Montreal Canada has sent in the sign on end off and signers.

Station	Saturdays	Sundays	Weekdays	Station	Saturday	Sunday	Weekdays
WGR -2	0830-0100	0830-0100	0900-0115	CBFT-2	1355-2345	1550-2345	1700-2300
WGBH-2		1100-0630	1815-2215	WOAX-3	0930-0115	1000-0115	0930-2325
WSYR-3	0900-0130	1000-0030	0655-0030	WBZ -4	0645-0030	0900-0030	0630-0045
WBEN-4	0830-0000	0830-0100	0700-0100	WPTZ-5	1315-2300	1500-2300	0700-2315
WABI-5	1030-0040	0915-0000	0700-0045	WRGB-6	0830-0000	0900-0030	0700-0100
WCHS-6	0815-0015	0815-0030	0630-0030	CHLT-7	1315-0100	1415-2345	1545-0100
WNAC-7	0655-0100	0900-0100	0700-0215	WMTW-8	1100-2345	1000-2320	1155-2320
WHEN-8	0755-0145	0900-0045	0655-0045	WNHC-8	0930-0030	0900-0015	0645-0015
COFT9	1355-2345	1550-2345	1700-2300	WMUR-9	1700-2330	1500-0045	1415-0015
WJAR-10	0745-0020	0900-0015	0640-0045	WHEC-10	0630-0100	0930-0100	0700-0050
WONY-7	1040-0035	0955-0030	1455-0045	WROC-5	0845-0100	0845-2345	0700-0030
WPRO-12	0800-0030	0845-2345	0700-0045	WKTV-13	0750-0045	0945-0040	0700-0030
WGAN-13	0930-0040	0945-0040	0700-0040	WBUF-17	0930-0030	1100-0000	0645-0030
WCDC-19	Same as WODA-41 satellite			WWLP-22	0900-0030	1000-0030	0700-0030
WCDB-29	Same as WODA-41 satellite			WTRI-35	1800-0000	1700-0000	1230-0000
WODA-41	0830-0015	0900-0050	0700-0045	WHYN-55	0930-0030	1000-2300	0800-2305
WRLP-58	Same as WWLP-22 satellite			All time listed are Eastern daylight time.			

some verie signers

KVOC-2	Tulsa, Okla... J. M. Bushnell C.E.	WOLA-3	Champaign, Ill... R. L. Meyers C.E.
WONY-7	Watertown, N.Y... K. R. Yonkovic G.E.	KTVO-3	Ottumwa, Iowa... James Riley C.E.
KARK-4	Little Rock, Ark... QSL Card no sign	WOB-4	Columbus, Miss... Bob McRaney G.M.
KMTV-3	Omaha, Nebr... Key Neilson Pro. Dept.	KYTV-3	Springfield, Mo... E. Dennis White CE.

Here are some sign off and on hours of foreign stations by Bryan Rawlings Montreal Ca.

Station	Saturday	Sunday	Daily	Location.	
KENI-2	0100-1000	0100-1000	1100-1000	Anchorage Alaska.	Thanks a lot men
KFAR-2	0100-1000	0100-1000	0100-1000	Fairbanks Alaska.	always glad to
KONA-2	2000-1000	2000-1000	2000-1000	Honolulu Hawaii	hear from you.
DZAQ-3	0700-1400	0700-1400	0700-1400	Manila P.I.	
KMAU-3	0100-0900	1605-0900	1605-0900	Wailuku Hawaii	Walter W. Spaulding
KULU-4	0200-0900	0200-0900	0200-0900	Honolulu Hawaii	R.D.# 3 Box 168
					Cardington, Ohio.

Compiled by: Bob Seybold

Bill Meers, La Grange, Kentucky--Sept 2, WFIE14(new); Sept 15, tropes, WHBQ13; Sept 17, tropes, 423 miles, WTV13 KHC7; Sept 18, WREK13(new); Sept 23, tropes, WHBQ13; Sept 24, WLOS13; Sept 25, tropes, WCYB5 WSJS12 WDEF12(all new) WLSL10 WDEJ7 WHIS6 WBIR10 WLOS13. His log at 114 with 5 new.

George Bergen III, LaGrange, Ky.--Sept 11, tropes, WLEX18 WFIE14; Sept 12, WHTN13 WLEX18; Sept 15, tropes, WTVN6 WBNS10 WHTN13; Sept 16, WFIE14; Sept 17, WFIE14 WBNS10 WHTN13 WTV13; Sept 22, WFIE14 WHBQ13; Sept 23, WFIE14 WHTN13 WLEX18; Sept 24, WHT50(new) WFIE14 WHTN13; Sept 25, WFIE14 WLEX18. Log at 44.

Larry Vehorn, Speedway, Ind.--Aug 7, Es, CMAB2; Aug 14, Es, KOOK2. Log at 119.

Denny Cline, Eastport, Maine--July 29, Es, WUSN2; July 31, Es, KTVI2; Aug 1, Es, KYW3; Aug 7, tropes, 300 miles, Es, WISC3 WMT2; Aug 8, tropes, 300 miles, WBZ4 WNAC7 WMUR9 WJAR10 WPRO12; Aug 9, same as the 8th; Aug 10, tropes, 300 miles; Aug 11, WNAC7; Aug 18, tropes, WAC7 WMUR9 WJAR10 etc; Aug 19, tropes, 300 miles; Aug 21, WBZ4; Aug 23, WNAC7 WJAR10 WPRO12; Aug 24, tropes, 300 miles; Aug 25, excellent tropes, 800 miles, new were: WOR9 WAM13 WGA18 WRCA4 WMA2, also seen were: WFIL6 WCAU10 WPIX11 WCBS2 WABC7 WGBH2 WHNO8; Aug 27, Es, WCTV6(new) WUSN2; Aug 29, tropes, 300 miles.

Michael Evangelista, Hamburg, Pa.--June 11, Es, KTBS3; June 29, tropes, WLWC4; July 12, Es, WAPA4; Aug 8, tropes, WOR9 WABD5; Aug 9, WPIX11; Aug 13, Es, KPRC2; Aug 18, tropes, WSYR3 KMY3 WVA3; Aug 24, tropes, WNCT9 WRAL5; Aug 29, WRV-12; Sept 1, WKRC12; Sept 7, WNBC8 WVUE12. His log at 41 with 15 new.

Bill Draeb, Kenosha, Wisc.--Aug 26, tropes, WGEN10 KCRG9; Aug 27, tropes, KTV03 (new); Aug 30, WDSM6(tropes); Sept 5, (all September reception-tropes), WJW8; Sept 7, KDAL3(new); Sept 10, WSBT34 WNDU46; Sept 11, same as 10th; Sept 12, WCC04 KSTP5 KROC10; Sept 14, Ms, WKY4; Sept 17, 540 miles, WFBG10(now) WBNS10 WKRC12 CPPL10 WJW8 WCP09; Sept 18, WTHI10 WSBT34 WNDU46.

E. J. Bingham, Festus, Missouri--Sept 16, tropes, 300 miles, WCP09 KMBC9 WREC3 WDXI7; Sept 17, tropes, 600 miles, WMEV11(new) WTV13 WOOD8 WHIO7 WNBQ5 WGN9 WKEB7 WHBQ13 WNET5.

John Cody, Middleton, Conn.--Aug 29, Ms, KARK4; Aug 30, tropes, WSYR3; Aug 31, tropes, WPTZ5; Sept 2, tropes, WTVR6 WRVA12 WLR3 WGBH2; Sept 3, WPTZ5; Sept 4, WCA-X3 CBFT2, Es, KGLO3 KMTV3 WMBR4 WLR3 WBTB3; Sept 13, Ms, WITI6 KARK4; tropes, WHEN8 WBA11 WCA-X3; Sept 16, WSH6 CBMT6; Sept 18, WBA11 WJZ13; Sept 19, WCA-X3 WPTZ5 WBA11 WJZ13; Sept 20, tropes, WMA2 WTA3 WRC4 WTTG5 WBA17 WCEX8 WGA18 WTOP9 WBA11 WRVA12 WJZ13. Log now at 64 with 19 new this period.

Harry Apley, Akron, Ohio--Sept 16-17, tropes, WHIO7 WISH8 CKLW9 CPPL10 WMBV11(new) WISN12(now) WTV13(new) WHIZ18 WANE15 WKJG33.

Frank Wheeler, Erie, Pa.--Aug 28, tropes, WJIM6 WOOD8; Sept 1, WNEF12 WJIM6; Sept 2, WJIM6. Other tropes for Frank was WTV13, a new one and WNEF5. Sept 4, Es, KDIX2(new). His log now at 91 with 84 veries.

Bryan Rawlings, Montreal, Canada--Aug 21, Ms, WCA3; Aug 25, tropes, WROC5(new) WRGB6; Aug 27, (all reception via tropes), WSYR3 WHEN8; Aug 28, WSYR3; Aug 29, WBZ4; Aug 30, WNAC7 WSYR3; Sept 3, WCNV7 WHEN8 WSYR3; Sept 13, 14, 16, 17, 18, 19, 21, 23, tropes, 225 miles; WSYR3 WHEN8 WROC5 CKWS11 WCNV7 on occasions; Sept 17, Ms, WREC3; Sept 24, Ms, WBTB3(new). His log now at 34 with 5 new.

Ross Brown, Tupperville, Ontario-Canada--Aug 11, tropes, KCRG9 at 471 miles; Ms, KENS5; Aug 12, Ms, KDLO3 KARK4; Aug 13, tropes, 313 miles, WTTW11 WANE15 WCP09 etc; Aug 14, WISN12 WPAG20 WKNX57; Aug 15, Ms, KMTV3 KARD3; tropes, WKTV13 WGN9 WTTW11 WANE15 WSEE35 WKIX19 WSBT34 WNDU46 WBUF17 WKNX57; Aug 16, WKRC12 WHAS11; Aug 26, WDAW24 WBUF17 WSEE35; Aug 27, tropes, WISN12 WKEB7 WPNB7 etc, UHF chs 15, 34, 46, 52; Aug 31, UHF chs 17, 21, 27, 35, 57; Sept 10, WTTW11 WISN12; Sept 11, UHF chs 15, 33; Sept 12, WGN9 WKNX57 WSJV52; Sept 13, UHF chs 15, 35, 21, 52; Sept 14, WBUF17 WKNX57; Sept 15, UHF chs 15, 33, 46; Sept 17, tropes, WBSM2 WSA23 WAVE3 WNBQ5 WLWT5 WHIO7 WISH8 WHO13 WFBG10 WNEF12 etc, UHF chs 15, 34, 46, 52; Sept 18, tropes, WHAS11 WPNB7 KWNL7 WGEN10 WTHI10 WKTV13 WMBV11 WREX13 WISN12 WSA23 WKEB7 etc, also UHF chs. 15, 17, 21, 27, 34, 35(WSEE35) 46, 49(WAKR) , 52, 56, 57 WMTV33 WKIX19 WTVH19 WKJG33. His log at 218 now.



\*\*Eastern DX Column...Continued...

Norm Erint, Kenmore, N.Y. --Sept 2, trop, WFIL6 WQAL8; Sept 3, WHIO7 WLWD2; Sept 11, WBNS10; Sept 13, aurora reception, WRCV3; Sept 12, WTVN6; Sept 16, WFIL6; Sept 17, WBAL11 WISN12 (both new); Sept 18, WDLJ6 (new) WHIO7 WEKB7 WSPD13 WTVN6 WOOD8 WBNS10 WFIL6 WKZO3 (new) WMBV11 WGN9 WHTN13; Sept 19, WMAL7 (new) WBAL11 WEKB7 WBNS10 WTAR3 WFIL6 WCAU10 (new). His log at 142 with 5 new.

King Schafer, Kenmore, N.Y. --Sept 3, aurora (northern lights), WFIL6; Sept 6, WKEN27 WFMJ21; Sept 11, WQED13; Sept 13, WKEN27; Sept 14, WGN9; Sept 17, WISH8 WISN12; Sept 18, WKZO3 WKXK19 WMBV11 WGN9 WEKB7 WKJG33 WISN12 WTVL13; Sept 22, WRGB6 WTQP9 WBAL11. All DX was trop. Log now at 218.

Art Collins, Buffalo, N.Y. --Sept 7, Ms, KDAL3 KMTV3, trop, WCAU10 WTOP9 WFIL6 WRC4; Sept 10, Ms, WSB2; Sept 14, Ms, WSM4 KMTV3; Sept 17, trop, WITI6 WISN12 WXIX19 WMAL7 WTVL13 WMBV11 WGN9 WEKB7 WDMJ6 (new); Sept 19, trop, WDMJ6 WFN7 WJZ13 WTAR3; Sept 22, trop, WMAL7. Late veries: KTVG6 WDMJ6 WJZ13.

Denny Cline, Eastport, Maine --Sept 19, trop, 800 miles, WTAR3 WBZ4 WNA67 WMUR9 WJAR10 WPRO12.

Bob Seybold, Dunkirk, N.Y. reports practically no DX seen in September, a very poor DX month indeed. Late verie in from KICA4 from 1955 reception.

Clarence Raroshide, New Orleans, La. --Sept 1, Ms, WOW6 (new); Sept 5, trop, WVL4 WJMR12 (both new and locals), Es, WTHS2; Sept 1, trop, WCB14 WAIQ2; Sept 13, trop, KPRC2 KGUL11 KTRK13; Sept 15, Ms, WGR2 WMAR2; Sept 16, Ms, WJEK2; Sept 19, trop, 470 miles, KTBC7 KTRK13 etc; WCA14 WBAP5 KENS5 KRLD4; Sept 25, trop, 540 miles, WRDW12 WAGA5 WROM9 WBIQ10 WMAZ13 WLMA11 WALE10 (all new), also WTIQ7 WSB2 WRBL4 WTVX9 KPRC2 etc; Sept 28, Ms, KTWO2 (new); Aug 23, Ms, WATE6 (new).

Alton L. Caldwell Jr., Brockton, Mass. --Sept 3, Es, KTC12 (new); Sept 4, Es, WMT2 WISC3, aurora, WTVO2; Sept 7, trop, WRGB6; Sept 15, trop, WRCV3 WFIL6 WCAU10; Sept 16, WFIL6; Sept 18, WCBS2; Sept 19, Ms, CEFT2 (new); Sept 26, Ms, ch2 unided; Sept 31, trop, 250 miles. Log at 131 now. New veries: WISC3 KICA2 WAVY10 WRAL.

John Black, Moffat, Ont. -Canada--July 5, WKTU13; July 6, WTVL13 (new); July 12, WFBG10; July 15, WTRF7; July 16, WBNS10 WHTN13 (both new); July 20, WFIX11 (new at 450 miles); Aug 2, WFBG10; Aug 18, WQED13 (new); Sept 11, WIIC11 (now). Log 71, 6 new.

B.H. Rauch, Peoria, Illinois --Aug 23, Ms, WOR9; trop, KTV9 WITI6 WISN12 WTMJ4; Aug 25, WTVO39; Aug 28, trop, 300 miles, WKZO3 WTH10 KRCG13 etc; Aug 29, WICS20 WAVE3 KAKEL0 KMBC9 WOW6 KCMO5 KOLN10 WKBT8 WISC3 etc; Aug 30, KMBC9 WKZO3 WOW6 KCMO5 WFBM6 WDAF4 etc; Sept 1, trop, 325 miles, WBAY2 KCMO5 WOW6 KMBC9 WXIX19 WTVO39 WTVP17; Sept 2, WXIX19 KRCG13 KFEQ2 WTVP17 WICS20 WTVO39; Sept 3, WTVP17; Sept 5, trop, 325 miles, KMBC9 KCMO5 etc; Sept 6, WOW6 WBAY2 KCMO5 KRNT8 etc; Sept 12, Ms, KTVR2; trop, KCMO5 WO15 etc; Sept 14, trop, KGL03 WBAY2 WMT2 etc; Sept 16, Ms, WMAR2; Sept 17, Ms, WCBS2 WRCA4 WMAR2; Sept 18, 325 miles, KMBC9 KCMO5 KWVL7 etc; Sept 19, Ms, WSYR3 (new) WMAR2 WCBS2; Sept 24, Ms, WSYR3; trop, KMBC9 WHO13 etc; Sept 25, WTVO39 WTVP17 KETC9 KEMUS etc. Frequent trop to 200 miles during Aug 24-Sept 25 period. Log at 140 now.

Bill Grant, Worcester, Mass. --Sept 4, Es, WMT2 KMTV3 KGL03 WO15; Sept 18, trop, CBHT3; Sept 19, trop, WABI5 WRCV3; Sept 20, WCAU10 WTOP9 WFIL6 WJZ13 WTAR3; Sept 30, trop, WTVO2 WABI5 CBHT3 CHLT7 (new).

Carl Lupton, Shelbyville, Ill. --Sept 1, WKN010 (new) WSET34 WNDU46 WHBQ13 WLAC5 WSIX8; Sept 5, trop, WIIC11 (new) WFBG10 WJW8 WSTV9 WTRF7 WKZO3; Sept 30, trop, 315 miles, WJIM6. His log now at 216 with 2 new.

Ed Bourgeois, Norco, La. --Aug 6, Ms, WCIA3 WISC3; trop, 840 miles, WHO13 (new) KCMO5 KOAM7 KFVS12 KHQA7 WREC3 KARK4 KTTS10 KTHV11; Aug 7, Ms, WBEM2 WCIA3 WISC3 WAVE3 WKZO3 WFIL6 WDFD6 WFBM6 WTVN6 (new); Es, WMAR2 WSAV3 WCAV4 (new) WBEN4; Aug 8, Es, KDKA2 WSAV3 WBEN4 WGR2 KYW3; Aug 10, trop, 440 miles, KTBC7 etc; Aug 14, same as 10th; Aug 15, Ms, WBEM2 WISC3 WHEF4 WTMJ4 WDFD6 WFIL6; trop, 450 miles, WBAP5 KWTK10 etc; Aug 19, Ms, WBAY2 WMT2 WKZO3 WGR2; trop, 360 miles; Aug 20, Ms, WJEK2 WGR2 WCIA3 WKZO3 WAVE3 WFIL6 WDSM6; Aug 23, Ms, WBEM2 KDKA2 WSYR3 WBTU3 WDFD6; Aug 24, KNID2; Aug 25, trop, 580 miles, KREC9 KON012 etc; Aug 27, KLSE13 (new); Aug 28, WCTV6 W-LB10; Sept 23, trop, 435 miles, WSB2 WMCT5 etc; Sept 25, trop, 760 miles, new were: WHIO7 WHAS11, also WCP09 WLMA-11 WTIQ7 etc; Aug 26-27, same as Aug 25 (trop). His log at 238 with 3 new. (WVL4 WJMR12 new).

Jerry Don Burch of Hot Springs, Ark.: Aug. 24, Trope: KWTW-9, Aug. 25 WKY-4, KWTW-9, KFVS-12, KFJZ-11, WBAP-5, WFAA-8, Aug. 26, KTRC-7, KPRC 2, KTRK-13, KWTX-10, KTRF-9, WFAA-8, KGUL-11, Aug. 27, KTRF-9, WBRZ-2 WABT-13, KWTW-9, Aug. 28, KTVI-2, KSD-5, KWK-4, KHQA-7 NEW, WPSD-6 WISH-8 Aug. 29, WSAZ-3, Sept. 2, KWTX-10, KTBC-7, WTWV-9, Sept. 3, WKY 4, WLAC-5, KCEN-6, WLBT-3, WTVV-9, WBRC-6, WDXI-7, WJTV-12, Sept. 4 WERC-6, WLAC-5, KTRF-9, WTKO-11, Sept. 5, KPRC-2, WBRZ-2, WJTV-12, WTKO-11, WLBT-3, CKCK-2 SKIP, KDIX-2 KOOK-2, KUTV-2, KTVR-2, all skip, Sept. 6, skip, CMKU-2, Sept. 20, KTRF-9, WFAA-8 skip, Jerry's further- et skip this time was CMKU-2 at 1501 miles, and his further- et tropes was WSAZ-3 at 635 miles. Jerry logged 9 new stations bringing his log total up to 175 stations verified by mail with 228 stations logged altogether.

Bob Cooper of Fresno, Cal.: July 26, KVOO-2, KMID-2, KARD-3, WKY-4 KGEO-5, KOTV-6, KHAS-5, KTVC-6 new, KYTV-3, KREM-2, KCKT-2, KEDY-4, KOTA-3, KCOK-2, CHCT-2, KDLO-3, KMTV-3, CBUT-2, CKCK-2, KFDX-3 all skip. Note: same day at 1545 on ch. 3; bob received an IHTP of KOMO-CHANNEL-5 unmistakable-snowfree for 15 minutes, beam of NE, KCMO- is on ch. 5 in K.C., Mo. -No explanation! Aug. 5, KARD-3, KFDX-3, KCKT -2, KEDY-4, KMID-2, Aug. 7, K- TGBOL-3 new, KMID-2, KQED-9, KPRC-2, all skip, KVIP-7 -KGO-7, tropes, Aug. 12, all MS- KMID-2, KEDY-4, Aug. 13, KFDX-3, ?? ch. 6, KMID-2, KHQ-6 new, KOIN-6 new, KR0D-4, Aug. 15, XETV-6 tropes or long MS, KABC-7, KHSL-12 t tropes, Aug. 8, Skip, KMID-2 KFDX-3, KRLD-4, WBAP-5, WEDY-4, KSYD-6, Sept. 4, aurora noted, on ch. 2-3-5-6, Sept. 5, KOOK-2, KDIX-2, KARD-3, KCKT-2, KMID-2, CKCK-2 all skip. Bob logged 5 new bringing his total up to 154, with 39 states 21 foreign stations, and 10 countries logged.

Bedford Brown of Hot Springs, Ark., Aug. 23, Skip..KNXT-2, KRCA-4, Aug. 24, skip, strong new FDAL-3, CFCJ-2 tent., WDAY-6, KXJB-4, KFVR-5 KDIX-2, CBWT-4, KTIV-4, KDLO-3, KOTA-3, KHAS-5, KHPL-6, KFBC-5, CFRN-3 tent., KMTV-3, Aug. 25, tropes..KFVS-12, KWTW-9, WKY-4, WBAP-5, KRLD-4, WFAA-8, KFJZ-11, all exc., Aug. 26, tropes, sw 550 mi..KDUB-13KCEN-6, KTRF-9, KWTX-10, KGUL-11, KTRK-13, KPRC-2, KFDX-6, WDSU-6, WBRZ-2, KWTW-9, KTBC 7, WKY-4, WFAA-8, KRLD-4, WBAP-5, etc., Aug. 27 tropes..410mi..Ala., Tenn., La. Tex., Okla., Miss., Aug. 28: tropes, ne 635 mi..WSAZ-3, Ohio, Ind., KY., Tenn. Mo, Ill., Tex., La.: Aug. 29 to Sept. 13, tropes daily to Okla., Tex., and La., varied daily from 275 to 450 miles: Sept. 5, E skip..KTVR-2 KUTV-2, KOOK-2, CKCK-2, KDIX-2, KOTA-3, Sept. 6, skip, CMAB-2, EMKU-2 and WKAQ-2 double-hop. Total logged 334 with 8 new.

Edwin Shorey of Derby Kans., (rec. to late last month) July 23, Trope, KOLN-10 July 24, tropes, KOLN-10 - skip..WRC-4, KPMY-2, WTTG-5, KDKA-2, CKCK-2, July 25, KOLN-10 tropes, WOW-6 and KHAS-5 tropes, WTTG-5 WUSN-2, KNXT-2, KBOI-2, KFEQ-2 (tropes) all rest skip. July 26, KEYT-3, KNXT-2, July 27, KFEQ-2 tropes, WFAA-8 tropes, July 28, KFEQ-2, WOW-6 tropes, July 29, KFEQ-2, KOLN-10, WFAA-8, KHPL-6, all tropes, July 31, KTTS-10W WOW-6, tropes, Aug. 2, WFAA-8, KOLN-10, Aug. 3, KOLN-10, KTTS-10 WFAA-8, KHAS-5 all tropes, Aug. 4, KTTS-10 tropes, Aug. 5, WFAA-8, KOLN-10 Aug. 6, KNOE-8, WFAA-8, KTTS-10, WMCT-5KLTV-7, tropes, Aug. 7, WFAA-8, KLTV-7, WOW-6, Aug. 8, KOMU-8, CHCT-2 new tropes, WUSN-2 skip, Aug. 10 KTTS-10, KNAC-5, KHAS-5 tropes, CHCT-2 is a record for him for tropes, at 1270 miles. Total logged 173 with 1 new.

Gene Webb of Seattle, Wn., Aug. 24, unided ch.2, Aug. 25 unided ch.2 KNXT-2 E's Aug. 26, unided ch.2, Aug. 27, unided ch.2, Aug. 28, unided ch. 2, Aug. 29, unided ch.3, ch.4, ch.2, Aug. 30, unided ch.3, -4-5, Aug. 31, unided ch.4, unided ch. 3, and 2, Sept. 1, unided ch.5, 4 and 2, Sept. 4, unided on ch. 2, Sept. 5, unided on ch.2, and KREM-2 by skip Sept. 6, unided on ch. 2, Sept. 7th unided on ch.2, Sept. 8, unided on ch. 2, Sept. 20, unide ch.2, Sept. 21, heavy E's. I want to apol- ige for stating that Gene got last month KREM-2 which is only 230 mi. from Seattle by tropes. HE SAYS HE ALWAYS GETS THEM BY SKIP OR REFLECT- TION SKIP.....EXCUSE ME..Please use ~~report~~ form Gene.

report



Ed Hepp of Portland, Ore.: Aug. 24 Es, KPRC-2 NEW, Aug. 29, aurora traces, Sept. 1, CBUT-2 good tropes, Sept. 2, Aurora traces, KNXT-2 E's, Sept. 4, strong aurora produced audio from: KCRA-3 and KOTI-2, also KDLO-3, Es Sept. 5, Es, KVOO-2 KTVK-3, KNXT-2, KLRJ-2, KEYT-3, KRCA-4, KTLA-5, Sept. 12, aurora, Sept. 14, tropes, KXLY-4, Sept. 15, good tropes, KOMO-4, KING-5, KTNT-11, KVOB-12, KTVW-13, KPIC-4, Sept. 21, strange horiz. framing bars, not U.S. standards....F2 ??? Aurora also. Sept. 22, strong aurora with good audio from KCRA-3. Sept. 23, aurora traces. 1 new with 73 logged. Ed works at his high-school's radio station, KBPS, as DJ after school hours, and it sure sounds like interesting fun.

Norris Doyle of Pittsburg, Calif., July 21, CKCK-2 KDIX-2, KHAS-5 NEW, KPHL-5 new, KFYR-5 (ms??) KTIV-4, KXJB-4, all Es. July 28, KMID 2, July 27, WKY-4, KMID-2 all Es. 36 logged with 2 new this time. Sorry to hear of your mother's illness Norris, here's hoping she is better by now. Also hope that flu bug passed you up.

Eddie Albright of Medford, Ore., Aug. 30, KVIP-7 tropes, Sept. 8 CFRN-3 ms, Sept. 17, KGW-8, KPTV-12 tropes, Sept. 19, KOIN-6, KGW-8 Sept. 20, KOIN-6, KGW-8, KPTV-12, Sept. 23, KGW-8, un-id ch.4 (ms) KOIN-6, KPTV-12 all tropes. 69 logged, no new. Eddie is now going to college, so probably won't have too much time for dxing, but hope you can't xxx to send a letter now and then, between college and your VW car.....Hi!

Jim Dillon of Regina Sask, Canada.:( I'm sorry about last month but I got your report after I had already sent the column in) July 25 KMID-2, July 26, CFQC-8 July 29, KOA-4, new, Aug. 12, KWK-4, WHBF-4 Aug. 13, WLWC-4, WTMJ-4, WOCO-4, KSD-5, KARD-3, WBBM-2, Aug. 21, CJIC-2 Sept. 4, KSTP-5 new, WBER-4, WTMJ-4, WHBF-4, KSD-5, WDAF-4, KOTV-6 new WKY-4, WBAP-5. 63 logged with 2 new.

Edwin Shorey of Derby Kansas: Aug. 11, WOW-6, KMTV-3 tropes, KOLN-10. Aug. 14, CKCK-2, CBWT-4 Es, Aug. 15, KTTS-10 tropes. Aug. 23, WMAR-2 WEMY-2 Es, Aug. 25, WFAA-8, KRLD-4, KTTS-10 KSLA-12 New, KNAC-5 tropes. Aug. 27, KTHV-11, WMCT-5 tropes. Sept. 4, CKCK-2 Es, Sept. 5, KOOK-2 KUTV-2 Es, Sept. 12, KPPA-10, tropes. Sept. 13, KPPA-10, tropes! Sept. 16, KSWO-7, KHOL-13 tropes. Sept. 17, WFAA-8, KELO-11, KETV-7 all tropes with last two being new. Sept. 20, WFAA-8, KHAS-5 tropes. 3 new this time bringing his log up to 176.

Doris Johnson, Longview, Wn.: Aug. 29, unid TP ch. 3, XEM-3 ??? Sept. 4, strong aurora. KVOB-12 tropes, and CBUT-2 exc., KCRA-3 audio produced by aurora. Sept. 5, Es KNXT-2, KEYT-3, KRCA-4, Sept. 13, Tried for CHBS-2 and got many bursts of IHTP over CBUT-2....Sept. 21 horiz. bars, not of U.S. standards. F2 ?? also aurora and KCRA-3 audio by aurora. Sept. 22, ch. 3, strange horiz. bars, F2??, strong aurora again, producing the most beautiful lights outside I have ever seen. Sept. 24, KOOK-2 Ex and unid on ch. 4 by Es. 87 logged.

In a verie I received from KTWO-2 they informed me they are only operating on a temporary power of 207 watts. They expect to go to 25,000 watts sometime in November or December. I had taken a picture of them on July 10, and they were quite impressed because of the low power that they could have been received by skip.

Mr. Wm. Van Elliterwyk of KFAR-2 in Alaska, (Chief Eng.) has asked me to relay the following bit of info. Due to his absence this summer while on vacation alot of AIPA ers requests for veries were either lost or destroyed and if you had sent him a letter and have received no answer then write again...

KRON-4 in San Francisco informs me that Ed Hepp and myself are the first to report reception of them by ms (Aug. 11) Hasn't anyone else gotten them by ms????

Send me info: Farthest skip, date and etc., farthest tropes, closest skip and closest tropes, NOT received daily. Thanks, Best Dx to all.

Doris Johnson



**IDX LOGGING OF THE MONTH:** Although not logged this month, it is the best new report that I have - Bob Cooper of Fresno, Calif., logged TG-BOL-3 on August 7 from 1728 to 1744 with occasional channel 2 QRM from a 625 line station, probably YVKS. Also, a second two way contact from US to Hawaii on 144 Mc, August 18, 2000-2115 PST.

**REPORTS:** Swedish DXers Petterson and Sandblom is Skillingaryd send another good report. June 29-Czech, France, Germany, Switz, & Italy, for 8 1/2 hours. July 3-BBC & France; 6-USSR; 7-USSR, 1130-2045 with occasional QRM; 15-Germany, Italy & Switz; 16-Ungern, USSR, Czech, Italy, & Switz; 17-Italy for 2 hours; 18-Italy, Germany, Ungern, Czech; 20-USSR, Italy, BBC, & Rumania; 21-Italy, BBC, France; 22-Italy & Germ; 23-Italy, Germany, & Czech; 24-USSR & BBC; 26-Germany, USSR, and Czech; 29-Italy; 30-BBC, Italy, Germany, USSR, and Rumania; 31-East Germany ch 7, West Germany ch 8,9,10 and 2, also Italy, BBC, & Czech; August 1-Italy, USSR, and Poland(tant); Aug 2-Italy, Germany, BBC, & France; 3-USSR, BBC; 4-USSR; 6-Italy, BBC, Germany, Ungern, Rumania, and Czech; 7-Italy & USSR; 9-Italy, France, Germany, BBC, and Belgium; 10-Germany, BBC, USSR, and France; 11-Switz, & France; 12-Italy, BBC, & Germany; 13-Italy, BBC, USSR, Switz, & Czech; 14-USSR, Italy, Germany, BBC, and Czech; 15-27 "no good DX. Every day sporadic, no long time!!!" They use a "Nordmande 'Diplomat 17' for 625, 819, and 405 lines!" That is sure what we need here for this F2 DX.

George Palmer sends two very interesting letters from Singapore. He informs me that he has purchased an RCA 14" TV. He was shown around the Bangkok TV station, and says it operates on channel 4 with US standards - IHTP 0115-0330 EST with programs up to 1000 EST or later, daily except Monday and Friday. He will get back to his home for DXing again about October 17. Good luck George.

Bedford Brown sends in his last report before school. August 24, CFCJ-2 (tent) OBWT-4 snow-free over local (KARK) for 4 hours (1315-1715 EST), and DH OPRN-3 (tent). Aug 27, XEW-2. Sept 5, OKCX-2. Sept 6, CAB-2, CUKU-2 and DH WKAQ-2. He also mentions that his "scrambled video" on the Venezuelans is no doubt due to the difference in the Horizontal sweep speed. It's too bad that all US TV sets don't have enough range to sync on 625 lines. Here's hoping that some do.

A welcome to X-proxy Bob Coope to IDX reporting. Besides the loggings listed above, Bob has two other days of IDX interest. On July 21 he was watching KARD-3 (Wichita, Kans.) when all at once at 1037 PDT, OBWT came in with a clear TP for about 10 seconds. And on July 14, he logged XEW-2, KEZ-3, KHTV-4, and KHGC-5 (new) with Texas QRM. Thanks for the report, Bob.

Ed Hepp of Portland, Oregon, reports some unusual DX. On Sept 21 (a peak day for F2) at 1300 and again at 1328 PST he saw traces of TV stations using 625 lines on chs 2,3, & 4. I would like reports of any other DX at that time. Thanks Ed.

Bill Grant of Worcester, Mass, noted some unusual DX, and although not apt to be IDX, it is typical of reports that I want for private reasons. On the evening of Aug 25, all reception, even CBS-2, was null. A storm near New Jersey was spilling a lot of rain around, when all of a sudden there was a strong 2 minute burst (local film) at about 2045 EDT, and again at 2105 EDT another strong 4 minute burst (micky Rooney film). Even though both were strong, both were blurred. He also noted that 10 meters was good to W. Texas, N.M., Ariz., and Calif. Any suggestions?

Stanley Fenc reports that F2 in his area is climbing with DX on 35.58 Mc on Sept 14 starting a round 1130 and lasting a couple of hours. At 1300 he heard a loud buzz near 45 Mc, which might have been the BBC picture. He should be set up to see them the next time. He has been hearing all over Europe on 10 meters.

Some other very unusual DX was reported the morning for Sept 13 from 0415 to 0540 EST. For the present, at least, I will not reveal the DXer, or the area of reception, but I would certainly appreciate ALL reports of any DX in this time period, and if you WERE DXing then and saw nothing, PLEASE let me know that too. There is reason to believe that this may have been Aurora from Europe. If you see Aurora (Northern lites) in the NE sky, you might check channels 2 thru 6 for such DX, especially when US stations are off the air. (Early morning) Send reports in promptly, please.

Locally, F2 on 35.58 is my only DX. I've heard Hawaii daily, and the East Coast from Florida to Mass and inland to Michigan, many times. Operation "Smokopuff" went on Sept 23, and everything worked, except the gas releasing device - result, no cloud. Next such test for March '58, maybe a Sodium test in November.

**F<sub>2</sub>DX PREDICTIONS:** December will be only slightly different than November, as far as Europe TV DX is concerned. The only change will be a slight decrease in both NUF and duration of reception, on the average. Therefore, no more will be said of Dec for the present. However, there is considerable evidence for a modification of the October predictions. Only slight improvement will be noted until about the 7th, when F<sub>2</sub> should really start picking up. There will likely be a dead day near the 11th, with a big Aurora display just preceding the lull, and then a rapid climb to considerable NUF values. The BBC may be received in the Central US from 0900 to 1200 CST - longer and earlier in the East, and less in the West, fading earlier. However, the West (40° Lat) may receive the BBC the long-way around between 0800 and 1100 PST, peaking around 0900. The farther South the better, and the farther North, the poorer. The peak day in October is likely to be between the 17th and the 20th, with another dead day following more Aurora. From one to two days after Aurora, things are apt to be unstable, and they would be good days to look for the very unusual. The BBC may bounce into Australia from 1400 to 1900 their time. Manila (DZAO-3) will be reflected toward the US from about 0600 to 0900 EST. There is also a fair chance of seeing Brazil on channel 2 between 0900 and 1200 EST. The first 2400 miles of this would be by double-hop Es, which is fairly common in that area. GOOD LUCK

**CONVERTER:** There still seems to be only slight interest in a converter for Europe TV. It seems the fact that it costs money, along with the possible need to modify a TV, add to discouragement for most AIPAers. Therefore, this is the last mention of it, unless general interest rouses a lot.

**MILEAGE:** Have you ever wished that you had some way of knowing exactly how far it is from your location to a DX TV station? I have, and for a long time, I have done what most people do, just measure the distance on a map. If I measure 6 13/26th inches, and the scale is 160 miles to the inch, I figure the distance is 1090 miles. However, I can only determine the distance to 1/16th of an inch, which means that the actual distance may be from 1080 to 1100 miles. And further more, I use the point on the map for the city, which usually differs by many miles with the transmitting site.

At last, I have a mathematical method for figuring the distance between two points on earth. This will be accurate to 1/10th mile, if the two points are known that close. The points must be found in Latitude and Longitude. TV stations can supply this information about their transmitters, but as to whether or not they will is not yet known. Those of you writing for veries might ask for this info, and you might also try to find it on your locals. I would appreciate such listings, especially on IDX stations. Your local Chamber of Commerce may be able to help you locate your location - or even a real estate office. If found to the nearest minute (1/60th of a degree) you will have you location to 1.2 miles.

With this information for both points, you can figure the distance by the formula: (if you're math is good enough) -  $\cos d = \cos a \cos b + \sin a \sin b \cos c$  - where a is your co-latitude, b is the co-latitude of the other point, c is the longitudinal difference, and d is the distance between you and the other point. The co-latitude is the latitude subtracted from 90° for the Northern Hemisphere, or added to 90° for others, or simply the distance in degrees from the North pole. The longitudinal difference is simply the difference between the longitude lines, remembering to properly relate points across either the 0° or 180° lines. The distance d will come out in degrees, and when this is converted to minutes, it also is nautical miles. Each nautical mile is 1.1516 regular miles, so by multiplying the distance in minutes by 1.1516, you then have miles.

There are no doubt many of you who are not enough up on math to do this problem, and if you wish, I will work it for you. Supply me with the latitude and longitude of both locations, and 25¢ for time (which will be used to purchase more material to help keep this column up to date) for each set of locations. And remember that the figures will be no more accurate than the points listed are, and I do make mistakes, so if figures look questionable, speak up - no charge for refiguring, if I made a mistake. If you can't get the exact location, get it as close as possible, and if you can't get it at all, list the town, and for 5¢ more I'll figure that, too, but that is just one more place where I may make a mistake. (Just ask Bodford - I had him East of Little Rock!)



STATIONS: Larry Vehorn sent me a new list of TV stations, and Bryan Rawlings of Montreal, Que., sends some additions also. Listed as per last month:

48.25 Europe ch 2, Austria - Jauerling-O; Belgium - Tielt-O (Flemish lang.); Cyprus - Nicosia-O (these due on air in '57); Sweden - Horby-P, Orebro-P; Yugoslavia - Belgrade - ~~6666~~ uses call YZO.

49.75 Russia ch 2, Czech - Ostrava; USSR - Leningrad - Minsk.

52.40 France ch 2, France - Limoges-O ('57 or '58)

53.75 Europe ch 2B, (FM audio at 59.25 Mc, 625 lines, 25 frames) Italy - Monte Caccia, Monte Cammarata, Monte Nerone, Pieve di Cadore, San Micolo.

55.25 Europe ch 3, Portugal, - Coimbra-O (due on Aug '57); Sweden - Skovde-P; "Radio Nacional de Espana"-E uses call TVRNE.

55.25 U.S.A. ch 2, Columbia, S.A. - Pasto-P, Santa Marta-P (1000 Kw directional).

56.15 France ch 3, Belgium - liege (French lang) (formerly listed on Europe ch 3)

59.25 Russia ch 3, Czech - Bratislava, South Bohemia-P; Poland, Warsaw.

62.25 Europe ch 4, Yugoslavia - Zagreb - YZO-3.

64.25 Australia ch 2, Brisbane-O - ABQ, Melbourne - ABV, Sydney ABN or ABM.

65.55 France ch 4, France - Ajaccio-O, Bastia-O, Besancon-O (due on early '58) Mantes on with low power.

67.25 U.S.A. ch 4, Columbia - Las Jurisdictiones-P (500 Kw directional); Thailand - Bangkok - HSI or HSL, US standards. (one list says 625 lines)

77.25 U.S.A. ch 5, Uruguay - Montevideo-O (SODRE) (Due on by now).

77.25 Russia ch 4, USSR, - Kharkov, Moscow, Riga, Sverdlovsk.

83.25 U.S.A. ch 6, Columbia, - Medellin (500 Kw directional, due on now) Marshall Is. - Eniwetok - WXL-TV (AFRTS) (50 watts - was on ch 9 when I was there); Panama - Colon-O; (There was an AFRTS TV on ch 4 operating from an aircraft carrier.)

103.25 Japan - Hiroshima - JOFK, Nagoya - JOOK or JOAR.  
Bryan mentions that Venezuelan time is 1/2 hour ahead of EST, 1 1/2 ahead CST, etc.)  
Larry also lists some FM stations that may be heard by F2:

44.00 Mc, HOL22, Panama City, Panama. 45.00 Mc, HORT2, Panama City, Panama.

47.44 Mc, YVND-FM, Maracaibo, Venezuela. 74.02 Mc, YVKQ-FM, Caracas, Venezuela.

And Hawaii info: Hilo - KHBC-TV ch 9, 1 Kw (KGMB Satellite)

Honolulu - KGMB-TV ch 9, 132 Kw; KHVN-TV ch 13, 12.9 Kw; KONA ch 2, 60.3 Kw, KULA-TV ch 4, 26.3 Kw. (KGMB uses a mechanically tilted antenna.)

Wailuku - KMAU-TV ch 3, 6 Kw, KGMB Sat; KQVI-TV ch 12, 30 Kw, KONA partial sat.

And he mentions that WDTV, Christamssted, V.I. is not TV but AM radio! That town is allocated ch 8, but no takers yet. Also, that North Africa station is in Algiers, Algeria, on channel France-11 (V203.45, A 214.60) and is on the air with 50 Kw. Thanks a lot, Larry.

CBMF Cadena Nacional, S.A. sends the following: they display call letters during all commercials, and all stations use CBMF, including both channels 4 & 7, in Havana. They have a test pattern on from 0900 to 1000 EST. Target dates: Ch 2, Oiego de A Vila and ch 8, Holguin - Feb '58, ch 5, Santiago de Cuba, April '58. There seems to be no way of telling which station it is, if there are two on the smae channel. Many thanks to Angel Barranco, Tech Dir for this info.

Hear are two European FM stations that may be heard by DXers: Sweden - Stockholm (-E) 41.62 Mc, and USSR - Moscow, 46.50 Mc. I heard two or more FM stations near 46 Mc with German speech, still unided.

Bob Cooper sends me the names and addresses of several IDXers. Included are TV DXers in Argentina, Cuba, Hawaii, and China. Letters are off to all of them and we may have some interesting reports from them, and I hope to get them to join the AIPA. One Argentinan has logged Venezuela ch 2,4,&5, P.R. ch 2, Cuba ch 2, Brazil chs 3,4,&5, Mexico ch 2 & 3, and Guatemala ch 3.

Ed Hepp mentions that "the Senior Producer for all television in Sweden" was at the school where he is, and although he didn't know the technical data, he was able to tell Ed that the presently have 15 hours of TV weekly, 13 hours of it is live.

Aranco's (Arabian American Oil Co.) new TV station is Dharen, Saudi Arabia, and it will have no call letters, but should be on the air as of Sept 15. This is the second station there (USAFRTS ch 8) and it will speak in Arabic. No channel given.

Channel 12, Havana is to start Oct 24, with 20 hours of color films daily.

**PROPAGATION:** There have been several requests for data on propagation affecting IDX. Since such propagation does not necessarily differ from that causing any TV DX, I plan to discuss propagation in general. While I was in College, I wrote a research paper on this subject, and have been studying propagation ever since. Here's some of it.

"Radio wave propagation is the process of getting a radio wave from the transmitter to the receiver. This is accomplished either by a direct wave, or a reflected wave, or both. Radio waves are reflected by anything from a building, an airplane, or even rain to layers of ionized gasses hundreds of miles high. It is these ionized layers that will be considered in this paper."

"The higher the degree of ionization, (of these gaseous layers) the greater the bending on any given frequency. The atmospheric pressure is also a factor,... Thus the greater the height of the ionized layer the more favorable the conditions for refraction. (bending)

"For a given density of ionization, the amount of refraction becomes less as the frequency of the wave becomes higher." 1

"These layers of the ionosphere are named with letters, the E layer being the lowest of any considerable importance.... This layer normally reflects only signals below 3-mc (megacycles),..." 2 (The present normal E layer is reaching 22 Mc.)

"The next higher layer, the F layer, is divided into two layers some of the time. These two layers are called the F<sub>1</sub> layer and the F<sub>2</sub> layer.... The F<sub>1</sub> layer is a separate layer only in the summer... Even in the summer, it is usually present only from dawn to dusk...." 1

1 Grammar, Geo., et al., The A.R.R.L. Antenna Book, West Hartford, The American Radio Relay League, Inc., 1944. P.5.

2 Underhill, Chester R., "Radio Wave Propagation," CQ, VI, December, 1950, P.13. (More next month - comments please.)

**IDX RECORDS:** We all know that different parts of the country are very different as far as DX is concerned. It is my opinion that DX records should then allow for this, and someone in Washington shouldn't be compared with someone in, say, Florida. For this reason, I propose to divide the US into six areas, and have DX competition for each area, also for each country, for each type of propagation, and on each TV channel, US and foreign. I would like EVERYONE to put your opinions, pro and con, on a post card, and send them to me NOW. I will follow the desires of the majority of those who respond to this idea. Of course, this column would carry only IDX. If this is done, what would you think of limiting each DXer to, say, 3 records? ?

**SHORTS:** STL (Scottish Television Ltd.) started operation August 31 at Black Hill, Lanarkshire (no channel listed). All TV in Italy is Government operated, and goes by the call RAI-TV. Bavaria now has commercial TV. CHAT-TV Medicine Hat, Alta., was to start operation on channel 16 on Sept 14 with 5.7 Kw. (Please report to me if you log this one.) Russia now claims 22 TVs on the air, with the most powerful using 30 Kw. Also, 100-2 Kw translators are claimed near major cities. By 1960 they claim they'll have 75 stations and 2000 translators. About 30% of their engineers are women. They are also developing a 4 or 5 Mc tape recorder for their TV.

Here are some films you might see on IDX stations: A Spanish dubbed version of "Code 3" and "Sheena, Queen of the Jungle" is being sold to Puerto Rico (channel not given) and "The Three Musketeers" to both WAPA and WORA. DLAG (ch ?) in Manila, P.I. has bought "Code 3," "Racket Squad," and "Sheena,....". YVLV-4 will show "Passport to Danger" sponsored by Viceroy Cigarettes, and TBOL-TV (same as TG-BOL??) will show it sponsored by Ford. Aramco has bought "Kingdom of the Seas." A French version of "Fury" was sold to the French CBC to start November 1. General Electric will sponsor "Count of Monte Cristo" on some P.R. station. A Spanish "Stage 7" is sold to San Salvador to be sponsored by "Banco Salvadora," and to Venezuela to be sponsored by "Corp. Publicitana."

Late report: Gene Webb of Seattle, Wash., reports that he doesn't see much IDX, but sees OBUT-2 daily, has seen CHEK-6 by tropo on May 26, and Sept 22 and 24, and CKOK-2 by E<sub>s</sub> on May 26, June 20, and July 29, all in 1957.

Please send in your reports, comments, and suggestions. I try to answer all letters - I'm about 10 behind right now. Don't hesitate to say what you don't like as well as what you like. 73 and best IDX - Gordon E. Simkin, CME, Loma Linda, Calif.



"Meteor Scatter Column" Conducted by Carl Lupton, Shelbyville, Ill.

For reasons unknown to me, a few of the regular MS reporters have not sent me their loggings for this month, hence a shorter report than usual.

Jerry Don Burch, Hot Springs, Ark. AUG 25, WJBK2; 26th, WMFD6; 27th, WGR2; 29th, WJBK2; Sept 1, WTAR3; 2nd, WWJ4; 3rd, WTMJ4; 4th, WTMJ4; 8th, WCCO4; 9th, WBBM2; 11th, WGR2; 13th, WBBM2, KYW3, WCYB5, WMFD6, WGR2, WUSN2, WJBK2; 14th, WTAR4, WNBQ5, WFBC4, (new), WSM4; 15th, WCYB5, WFIL6, WFBM6, WWJ4; 16th, WUSN2, WTMJ4, WJIM6, KMID2, WPTV5; 18th, WCYB5, WAGA5 (new), WSB2, KTC42; 20th, KYW3, WEWS5. A total of 23 stations seen on 40 occasions. Good viewing, Jerry.

Bedford Brown, Hot Springs, Ark. AUG 23, WFFH12, WICU12, WDSM6, KDKA2, WOW6, KTVR2; 24th, WDSM6; 25th, WTMJ4, WRC4, WOW6; 26th, KGNCA, 27th, KTVR6, WKCT7, WALB10; 28th, WMTW8; 29th, WKCT7, KGNCA; 30th, WGR2; 31st, WUSN2, Sept 1-13, WJAC6, WFIL6, WGR2, WUSN2, WSM4. Bedford mentioned spending very little time DX-wise, hence the brief report.

Art Collins, Buffalo, N. Y. Sept. 6, KDAL3; 7th, KMTV3; 10th, WSB2, WTIC3; 14th, WSM4, KMTV3; 17th, WITI6. Art did not see KDKA2 this month, likewise the ed. He remarks the month of Sept very poor for DX.

Norm Ernt, Kenmore, N. Y. July 31, WSM4, Aug 2, WCB32; 3rd, KMTV3; 4th, KARK4; 5th, WCB32, WMT2, WBBM2, KDAL3; 7th, WLWD2, WTWO2, WBBM2; 8th, WBBM2, as 9th and 10th, 12th, WLWD2, WCB32, WMT2, WBBM2; 13th, KTV4, WTAR3; 14th, KMTV3, WCB32, KDX2, WBBM2; 21st, WTWO2; 22nd, WSM4; 24th, KARK4, WBBM2; 26th, WCB32; 27th, KTVR6; 30th, WCTV6; WBBM2, KDAL3, KFEQ2; Sept 1, KARK4, 2nd, WTWO2; 3rd, KMTV3; 4th, WRAL5, KARK4; 5th, WLWD2, WBBM2, WMT2; 6th, KDAL3; 7th, WBBM2; 15th, WCB32, 21st, KARK4. This was a 2 months' report for Norm, with some steady viewing.

Barney Rauch, Peoria, Ill, Aug. 23, WOR2; Sept 16th, WMA2; 17th, WMA2, WCB32, WRC4; 18th, WMA2, WCB32; 19th, WMA2, WCB32, WSYR3(new)

From the reports, or rather the lack of them, I would be safe in saying that September has been a poor month for MS reception, perhaps as the weather cools a bit, reception will pick up some. Good luck!

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We have a late report on the Western DX..... Morris Foote of Middleton Idaho: Aug. 19, KNXT-2 MS & Sept 9, WOAI-4, MS. Sept 13, KID-3 by trop. Morris has a log of 77. This month has been bad so he tells us, & is true.

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It is our unpleasant duty to state that Club Headquarters has learned of two or three of our Editors (Club Workers) has received complaints of mistakes made and poor workmanship in and on the bulletin. We all do our best to put out a good bulletin and a unintentional mistake or error does not call for a dressing down. We sure do welcome all suggestions for the betterment of the club and bulletin but please, lets have them in a Gentlemen like way. We hope this is the last time we have to make a statement like this.

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It is common talk among DXers that a good TV set is something we cannot expect to buy at this day and age. We know the chassis has been cut here and there due to price competition etc. With no malice or slam to any TV manufacturer, may we suggest to any one in the market for a new set to look into the new Zenith 1958 line. They have a hot chassis in their good 20,000 volt job. (The "space-Command" not recommended for DXing) There are two type tuners available, the more expensive set has the above mentioned incorporated in it, so if you are thinking of a new set, it will be worth your while to look this one over.

#BEDFORD BROWN Until next month, good DXing, good luck  
IS ILL" - COLUMN NEXT MONTH" AIPA Hdqrs....