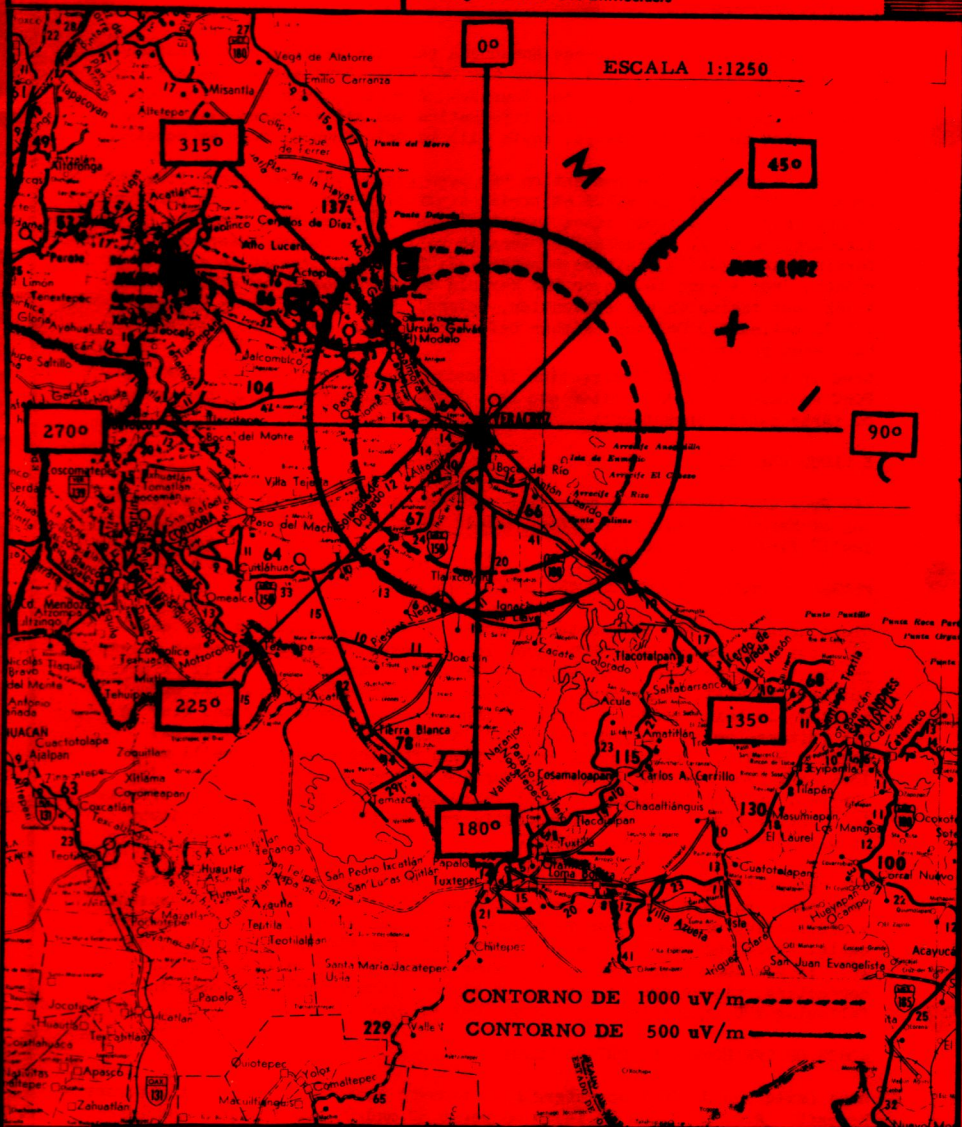


VHF·UHF DIGEST

1972
JUNE

Serving VHF-UHF DX Enthusiasts



RADIODIFUSORA XHTS-FM

Frecuencia:	Población:	Potencia:
102.9 MHz	Veracruz, Ver	5 KW

CONTORNOS DE RADIACION

DE 500 Y 1000 uV/m.

publishers' notes...

WTFDA HEADQUARTERS, P.O. BOX 163, DEERFIELD, IL 60015 USA

WTFDA CONVENTION DATE ANNOUNCED

Convention host Ron LeBlanc has announced that the 1972 WTFDA Convention will be held August 4, 5 and 6 near New Orleans. Some activities for early birds are even planned for Thursday, August 3. Ron has a convention report on page 36. Reservation information and all expenses will be detailed next month. As always, costs will be held down as much as possible.

Initial response to the convention has been great. It even seems like the greater portion of the WTFDA editorial staff plans to attend! To our surprise, traveling in some cases (most!) a long distance does not seem to be discouraging many. A number of DXers in various areas are interested in forming car pools to minimize expense. If you're interested in that approach, drop a card to Ron or Bob Seybold to coordinate your efforts. Besides just taking in the convention, several members have shown an interest in seeing New Orleans, either before or after. You might also mention this when you write.

News of the 1972 ANARC convention in Boston can be found in the ANARC REPORT on page 7. ANARC editor and rep, Ferdie Dombrowski, also has details of three other conventions.

E CLOUD CHARTED

Les Prus and Richard Wood have made an interesting study of the Es opening of March 7. This fine effort should be of interest to all V-U DXers. You'll find it on page 17.

MEMBERS COMMENTS ABOUT "OUR NEW LOOK"

Glenn Hauser... "May VUD certainly looks great." "spelling is very careful, but I've caught EUROPEON a couple of times. They're Europeans unless you're trying to make a pun about their social status, hi." Bill Mathews... "offset is GREAT!" Les Prus... "really looks impressive now that offset printing is being used-- a terrific improvement. Saves wear and tear on the editors too." "Do you plan to add a second 'R' to NORTHERN FM DX?" Richard Wood... "It's a great leap forward for the club, and we'll never look back from now on." "Looking forward to the 2nd offset issue." Joe Sarff... "Looked fantastic". Bill Heusmann... "I'm impressed with offset. It's better than I thought, especially even on the first one. No doubt it will prove to be a wise move."

Our apologies for the lettering errors noted. It was a bit hectic here last month as we rushed to crank out headings, etc. Other slips caused a mislabeling of Glenn Hausers photos. KPFA and KRBC are the two correct calls. Would you believe a slip in our ZIP? Our ZIP is still 60015, not 16. If you should spot any call letter errors or any other slips worth correcting, please drop a card to us at Hq. Changes will be noted in the following VUD, under the heading of "Out of Sync".

NORTH OF THE BORDER REPORT RETURNS!

Mark Lewis and J. Joel Rosenberg have brought back the "North of the Border Report". N.O.T.B.R. can be found on pages 32 and 33 and features the latest CRTC news. Mark and Joel welcome your news bits.

73, Morrie and Gary

This month's cover material is from Richard Wood, S-FM-DX editor.

Send Your News

To

Terry Colgan
119 Andrews Apt. 14
San Antonio, TX 78209

MAILBOX

"A crystal chandelier dipped in pancake batter?!" not this month; but we have something better -- these new members:

Bill Bens	Cincinnati, OH	Welcome back!!
Truman D. Clasen	Sussex, WI	thru Communications World
Gary C. Ehresman	Homestead, FL	sponsor unknown
Pat Gilbreath	Elk City, OK	thru Glen Neal
Randall Goodwin	Weymouth, NS	sponsor unknown
Henry B. McCoy, Jr.	Gretna, LA	thru Ron LeBlanc
Ray Tarantino	Chicago, IL	sponsor unknown

We're also pleased to have the following members renew:

Frank E. Aden, Jr.	Joe Gragg	Donald D. Richardson
Ray Bell	Dennis Heiskanen	Bill Ronecker
Andy Bolin	Ron LeBlanc	Harold E. Schrock
Roger Carrière	Paul & Les Luchter	Bob Seybold
Pat Dyer	Bill Mathews	Edward Sikora
William Eckberg	Frank Merrill	Larry Vogt
Joseph Fela, Jr.	Bill Migley	Robert Zoller
	Glen Neal	

A nice letter from Buffalo, NY DXer, Bob Christensen, contains the following information on Buffalo late-night TV: WUTV-29 carries the CBS late movie on a one-day delay (beginning at 11 pm EDT Tue-Sat), followed by a second feature; WBEN-4 has Dick Cavett at 11:30 pm Mon-Fri; and WGR-2 runs Al Capp on Saturday. Bob also notes he recently sold his RCA portable and wideband yagi and, for the present, is limited to BCB listening. Be sure to let us know about your new equipment!

According to Glen Neal, new member Pat Gilbreath is "residing supervising engineer" for KFDO-8 and uses an RCA color TV hooked to a VHF antenna atop a 20-ft pole and "armstrong" rotator. (Incidentally, Pat and Glen, I have bunches of relatives in and around Cheyenne, OK -- TC.)

Renewing their membership for another year, Paul and Les Luchter explain their September through May DX inactivity; Les is a freshman at Syracuse University, while Paul is a junior at Columbia. Paul describes his location as: "...in the middle of the city, the tall buildings, concrete and steel, with too many FM and TV stations, and anyway, the only TV stations here are on cable! (and when a station signs off so does the cable channel.)"

Truman Clasen specializes in TV viewing with an RCA 21-inch receiver, a JFD LPVU-150 VHF antenna and Jerrold VPM-104 VHF amp, and a JFD 2V20 UHF skyhook.

San Franciscan, Harvey Woodworth, reports plans to use two 16mm motion picture cameras--a Bolex H-16 "Leader Deluxe" and an Auricon single system "CineVoice"--for recording TV DX, until the time comes to purchase an Akai VTS-110-DX video tape recorder. Harvey reports that it's the only vtr to "get off the ground" toward feasibility for hobby use.

Remember, this is YOUR column. If you have any news, send it along. Until next month,

73,

Terry

STATISTICS

Deadlines: Glenn Hauser, editor
 12 June c/o Box 62
 12 July Von Ormy TX 78073
 J U N E 1 9 7 2

Important: Please note the new address. HQ has prevailed upon us to run TV and FM scoreboards less often. Please try to submit your totals before the 12th of the month preceding these issues: **FM:** August, November, February, etc. **TV:** September, December, March, etc. July, October, January, etc., will probably carry FM DX revisions.

TV SCOREBOARD

DXer	Location	Sigs	UHF	Es	States	Prov	Islands	YB	As of
Robert Seybold	Dunkirk NY	553	180		49+DC	8	6		4 Apr
Bill Draeb	Kewaunee WI	470	158	138	41+DC	6	3	53	23 Apr
*Robert Cooper	Oklahoma City OK	435	159		40+DC	5	7	69	6 Jan
Gary C. Ehresman	South Bend IN	376	100					53	28 Apr
*Ferdinand Dombrowski	Wisconsin	372	91	147	44+DC	6	10	50	22 Nov
Glen Neal	Sayre OK	358	80	167	40+DC	4	3	66	4 Mar
Harold Cooper	Westland MI	356	125	64	37+DC	7	3	69	26 Mar
*Roger Brown	East Lansing MI	329	141	82	40	5	4	57	12 Jan
*John Parillo	Girard OH	310	69		34+DC	5	3	51	4 Dec
*Gary Olson	Deerfield area IL	305	94					5	31 Jan
Glenn Hauser	San Antonio area TX	249	65	77	36	1	6	71	15 May
Morrie Goldman	Chicago IL	247					4	64	15 Feb
Fred McGormack	Des Lacs ND	243	30	140	39	6	3	64	7 May
Ron LeBlanc	Marrero LA	242	56	57	31	2	7	67	14 May
Frank Wheeler	Erie PA	232	36	105	32+DC	9	3	55	7 Mar
*Jerry Pulice	Staten Island NY	215	72	63	34+DC	3	3	62	4 Jan
Les Prus	Manhattan KS	178	10	84	34+DC	5	3	69	1 Mar
Robert Grace	Franklin TX 77856	169	16		35+DC	2	4	68	21 Apr
J. Joel Rosenberg	Downsview Ont	165	77	37	28	4	2	69	1 May
*Don Ruland	Kenosha WI	162	54	7	24	1	2	71	11 Jan
Pat Dyer	San Antonio TX	151	8	75	34	2	6	59	10 May
Dennis Smith	Wasco CA	145	26	86	25	3	3	54	21 Mar
*Dave Egan	Valleyfield PQ	137	3	41	31+DC	4	2	67	22 Jan
Paul Luchter	Oceanside LINY	135	52	46	27+DC	3	2	67	5 Apr
Harry Hein	Chicago IL	134	64	15	18	2	2	70	19 Feb
Ron Hade	Rockford IL	125							10 Apr
Jim Pizzi	Orcutt CA	112	18	63	17	3	3	24	Mar
Fred Nordquist	North Syracuse NY	110	21	28	20	2	2	69	5 Apr
Jim Hayes	Wilkes-Barre PA	109	10	60	24+DC	3	2	69	2 Apr
*Roy Horsley	Steele AL	106	19	44	19	4	5	57	5 Jan
David L. Brown	Farmville VA	99	4	56	25+DC	5	4	70	8 May
*Joe Kureth	Maryland	66	25	14	16+DC	0	2		18 Nov
Charles Dobbins	Detroit MI	57	12	0	15	1	2	70	6 May
Dennis Smith	Santa Barbara CA	35	12	8	4	0	2	51	21 Mar
*Dave Swanson	Margarita CZ	22	0	11	2	0	7	71	12 Dec
*Dave Egan	Valleyfield PQ (vfd)	120			31+DC	3	2	67	22 Jan
Harry Hein	Chicago IL (vfd)	102	47	6	16	0	1	70	19 Feb
David L. Brown	Farmville VA (vfd)	44	3	30	20+DC	3	4	70	8 May

*Update due by 14 August. To figure out "YB", analyze figures given in a logical manner

TV DX REVISIONS

Ch	Call	Location	Prop	Miles	DXer	Location	Old Record
3	WEDU	Tampa FL	Tr	490	Ron LeBlanc	Marrero LA	Ruland 110
4	WLWC	Columbus OH	MS	---	Les Prus	Manhattan KS	WITHDRAWN - NO RECORD
7	KSVO	Lewton OK	MS	920	Bill Draeb	Kewaunee WI	none
	XHGO	Tampico Tamps	Tr	490	Glenn Hauser	Von Ormy TX	none
8	WQAD	Moline IL		570	Robert Seybold	Dunkirk NY	Cooper 550
	KFDO	Sayre OK		360	Robert Grace	Franklin TX	Hauser 125
16	KDSD	Aberdeen SD		235	Fred McGormack	Des Lacs ND	none
	KVVV	Galveston TX		285	Ron LeBlanc	Marrero LA (error)	LeBlanc 520
26	KYNE	Omaha NE		500	Gary C. Ehresman	South Bend IN	Cooper 405
35	WIMA	Lima OH		315	Joel Rosenberg	Downsview Ont	Lewis TIE
48	WMSL	Huntsville AL		800	Glenn Hauser	Von Ormy TX	Lewis 725
78	W7BAJ	Sheboygan WI		165	Gary C. Ehresman	South Bend IN	Olson 110

STATISTICS

CHANNEL 2 TROPO TVDX RECORDS

JUNE 1972

WDIQ	Dozier AL	240	Ron LeBlanc, Marrero LA	
KETS	Little Rock AR	tie	Clarence Rareshide, New Orleans LA	as WAIQ
KNXT	Los Angeles CA	510	Glenn Hauser, South San Antonio TX	
KTVU	Oakland CA	335	Robert Cooper, Lafayette CA	
KWGN-	Denver CO	310	Charles Wood, Ashland OR	
WESH-	Daytona Beach FL	450	Marv Garber, Lincoln NE	
WTHS-	Miami FL	1045	Glenn Hauser, Von Ormy TX	
WSB-	Atlanta GA	665	Clarence Rareshide, New Orleans LA	
KBOI-	Boise ID	755	Robert Cooper, Oklahoma City OK	
WBBM-	Chicago IL	395	Gene Webb, Seattle WA	
WTWO	Terre Haute IN	660	Glenn Hauser, Erid OK	
WMT-	Cedar Rapids IA	485	Les Pius, Manhattan KS	
KCKT	Great Bend KS	560	Robert Cooper, Oklahoma City OK	
WBRZ	Baton Rouge LA	650	Robert Weems, State College MS	
WLBZ-	Bangor ME	745	Richard Clark, Fort Lauderdale FL	
WMAR-	Baltimore MD	270	Ronald Boyd, Truro NS	was WTWO
WGBH-	Boston MA	620	Denny Cline, Eastport ME	
WJEK-	Detroit MI	460	Frank Wheeler, Erie PA	
KTCA-	Saint Paul MN	490	Dave Egan, Valleyfield PQ	
WJZAJ	Pass Christian MS	215	Fred McCormack, Fargo ND	
WMAB	State College MS	55	Ron LeBlanc, Marrero LA	of WWL-4
KQTV	Saint Joseph MO	60	David Cox, Carrollton AL	
KTVI	Saint Louis MO	330	Robert Cooper, Oklahoma City OK	was KFEQ
KOCK-	Billings MT	595	Ron LeBlanc, Marrero LA	
KNOP-	North Platte NE	235	Gordon Simkin, Idaho Falls ID	
KLRJ-	Henderson NV	365	Glenn Hauser, Erid OK	
WGR-	Buffalo NY	270	Robert Cooper, Fresno CA	now KORK-3
WCBS-	New York NY	475	Dave Janowiak, Joliet IL	
WKTV	Utica NY	645	Ronald Boyd, Truro NS	was WGBW
		220	Mark Lewis, Downsview Ont	was ch 13
		tie	J. Joel Rosenberg, Downsview Ont	
WUNB-	Columbia NC	340	Jerry Pulice, Staten Island NY	now WUND
WFMV-	Greensboro NC	735	Ed Bourgeois, Norco LA	
KDIX-	Dickinson ND	265	Jim Dillon, Regina Sask	
WLWD	Dayton OH	435	Jerry Dee, Vinton IA	
KVVO-	Tulsa OK	465	Ed Sparks, Odessa TX	now KTEW
KOTI	Klamath Falls OR	395	Kenn Cooper, Fresno CA	
KDKA-	Pittsburgh PA	470	Bill Draeb, Kewaunee WI	
WUSN-	Charleston SC	705	Ray Foster, Monroe LA	now WGBD
KUSD-	Vermillion SD	305	Dave Pomeroy, Overland Park KS	
WDCN-	Nashville TN	235	Estill Thone Hall, McDowell KY	
WSJK	Sneedville TN	235	Joe Kureth, Southern Pines NC	
KPRC-	Houston TX	970	Carlton Howington, Homestead FL	
KMID-	Midland TX	1235	Ed Richmond, Lakeland FL	
KUTV	Salt Lake City UT	175	Matthew Wall, Twin Falls ID	
KKRM-	Spokane WA	570	Russel Cain, Reno NV	
WBAY-	Green Bay WI	760	John Bettersworth, Starkville MS	
KTWO-	Casper WY	290	Gordon Simkin, Idaho Falls ID	
CHCT-	Calgary Alta	240	Edwin Shorey, Derby KS	
"CBUT"	Vancouver BC	500	Charles Wood, Mount Ashland OR	now GFCA
CKCW-	Moncton NB	405	Rick McGuire, Everett WA	
CFCL-2	Kearns Ont	365	Robert Seybold, Dunkirk NY	
CKPR-	Port Arthur Ont	290	Bill Draeb, Kewaunee WI	was CFCJ
CJIC-	Sault Sainte Marie Ont	210	Bill Draeb, Kewaunee WI	
CKGO-2	Wlarton Ont	190	Frank Wheeler, Erie PA	
"CBFT"	Montreal PQ	315	Mark Lewis, Downsview Ont	
CKCK-	Regina Sask	205	Fred McCormack, Des Lacs ND	
XEPN-	Ciudad Juárez Chih	165	Glenn Hauser, South Baldy Mtn NM	
XEFE-	Nuevo Laredo Tamps	140	Pat Dyer, San Antonio TX	
		tie	Glenn Hauser, South San Antonio TX	
WKAQ-	Panamá Panamá	35	Dave Swanson, Margarita CZ	Teledis
KTVN	San Juan PR	85	Robert Cooper, Frederiksted VI	
	Reno NV	325	Jim Pizzi, Orcutt CA	(out of order)

STATISTICS

JUNE 1972

97 MHZ FM DX RECORDS

Contributors preferably should submit lists for this section in this format, rather than a complete tabulation of their entire FM log. Propagation must be specified; approximate distances are optional but very helpful. All entries are remeasured on a single map. Candidates this time from: Bishop, Bolin, Brown, Cooper, Dörner, Dyer, Ebeling, Elving, Fela, Hauser, Hayes, Hobday, Howington, LeBlanc, McCormack, Markewicz, Moe, Sawatzky, Seybold, Smith, Vogt, Wood.

MHz	Pr	Call	Location	Miles	DXer	Location	Comments
97.1	Es	KFJZ-	Fort Worth TX	1260	Dennis Smith,	Wasco CA	now KWXI
	Tr	WQMG	Greensboro NC	730	Mike Dörner,	Metairie LA	
	Au	WCOW-	Sparta WI	595	Fred McCormack,	Des Lacs ND	
97.3	Es	WIOD-	Miami FL	1585	Bruce Elving,	Duluth MN	now WALA
	Tr	KEEZ	San Antonio TX	1100	Russ Brown,	Saint Joseph MI	
	MS	WKBC-	North Wilkesboro NC	915	Robert Cooper,	Oklahoma City OK	
	Au	KDMI	Des Moines IA	360	Russ Brown,	Saint Joseph MI	
97.5	Es	CJOB-	Winnipeg Man	1505	Waldo F. Bishop,	Tallahassee FL	
	Tr	CJOB-	Winnipeg Man	845	Andy Bolin,	Charleston IL	
	MS	CJOB-	Winnipeg Man	935	Glenn Hauser,	Enid OK	
	Au	WNCQ	Watertown NY	540	Russ Brown,	Saint Joseph MI	
97.7	Es	CKCM-	Montreal PQ	1405	Glenn Hauser,	Enid OK	
	Tr	KHGL-	Mérida Yuc	720	Waldo F. Bishop,	Tallahassee FL	
97.9	Es	KFBC-	Cheyenne WY	1465	Larry Vogt,	Springfield VA	
	Tr	WJNC-	Palm Beach FL	1155	Glenn Hauser,	Von Ormy TX	
	MS	WNCI	Columbus OH	1080	Fred McCormack,	Des Lacs ND	
	Au	KDVR	Sixou City IA	220	John Ebeling,	Bloomington MN	

UHF TROPO TVDX RECORDS

46	KMST	Monterey CA	165	Dennis Smith,	Sequoiah Crest CA	
	WNDU-	South Bend IN	385	Kingdon Schafer,	Kenmore NY	now ch 16
	WKLE	Lexington KY	470	J. Joel Rosenberg,	Downsview Ont	
	WHAB-	Atlanta GA	755	Mark Lewis,	Downsview Ont	
	WFPG	Atlantic City NJ	145	Robert Cooper,	Oklahoma City OK	
	WSKG-	Binghamton NY	595	Arthur Perry,	Quogue LINY	now off
	KNCT-	Belton TX	575	Bill Draeb,	Kewaunee WI	
			575	Dave Pomeroy,	Overland Park KS	
47	KJEO	Fresno CA	180	Dennis Smith,	Santa Barbara CA	
	WTVP	Peoria IL	555	Robert Cooper,	Oklahoma City OK	
	WNJU-	New York NY	385	Carlton Howington,	Uniontown OH	
	WSVN-	Norton VA	825	Robert Cooper,	Oklahoma City OK	
48	WMSL-	Huntsville AL	800	Glenn Hauser,	Von Ormy TX	
	WUBC	Greensboro NC	235	Larry Vogt,	Springfield VA	
	WCET	Cincinnati OH	400	Bill Draeb,	Kewaunee WI	
	WKBS	Philadelphia PA	515	Ray Stilwell,	Lansing MI	
49	WEDW	Bridgeport CT	325	Robert Seybold,	Dunkirk NY	
	WLEB-	Muncie IN	735	Robert Cooper,	Oklahoma City OK	
	WAKR-	Akron OH	395	Ferdinand Dombrowski,	Lebanon WI	now ch 23
	WNOW-	York PA	635	Carl Lupton,	Shelbyville IL	now off
50	WGSP	Washington DC	30	Tom Yingling,	Dundalk MD	now off
	WEHT	Evansville IN	455	Bill Draeb,	Kewaunee WI	now ch 25
	WCAB	Saint John IN	415	Robert Seybold,	Dunkirk NY	
	WKBD	Detroit MI	900	Robert Cooper,	Oklahoma City OK	
	KGCT	Kansas City MO	840	Mark Lewis,	Downsview Ont	now off
	WXPO-	Manchester NH	110	Gene DeLorenzo,	Hyannis MA	
51	WKID-	Fort Lauderdale FL	10	Bob Frantz,	Fort Lauderdale FL	
	WLEV	Bethlehem PA	25	Karl Kleintop,	Souderton PA	now off
	WVPT	Staunton VA	440	Clarence Day,	Westerly RI	

Take a look at the ch. 2 tropo records and how short some of them are! Picking up a lowband station by tropo is usually more of an accomplishment than by Es--yet many seem to neglect reporting them! Next month: ch. 3 tropo; 98 MHz; and space (2 pages) permitting, FM & TV revisions and a few more UHF channels. Until the next, 73. Glenn

A.N.A.R.C. REPORT

Ferdinand S. Dombrowski, P. O. Box 5001, Harbor Station, Milwaukee, WI 53204

A.N.A.R.C. CONVENTION TIME!

This column will now appear on a regular, but non-monthly basis. Selected items from other club publications will be included with other news. WTFDA exchanges with several ANARC clubs.

Big news this month is the ANARC convention with guest speaker Eddy Startz of "The Happy Station", Radio Nederland, probably the best known shortwave program of all time.

DATE & TIME: From 4:00 p.m., Friday, July 14, 1972, until noon Sunday, July 16th, 1972.

LOCATION: The Colonial Hilton Inn, Wakefield, Massachusetts.

PROGRAM: Planned are seminars, panel discussions, guest speakers, equipment demonstrations, prizes,-- and much more for DXers of all interests. Full details will be provided in advance of the convention date. But DON'T WAIT--many well-known DXers have already made plans to attend!

REGISTRATION FEE: \$12.00, check or money order only, made payable to "1972 ANARC CONVENTION COMMITTEE". This fee includes the cost of the Saturday night banquet dinner and Sunday morning breakfast. Your check or money order should accompany your registration.

ACCOMODATIONS: Single rooms are now available for \$18 plus tax, and double rooms (two in a room, separate beds) for \$11.50 per person, plus tax. You should reserve a room now by checking the appropriate place on the registration form below, but all payments for rooms will be made by guests at check-out. Room reservations will close June 30, 1972.

TRANSPORTATION: The Colonial Hilton is right off Route 128, and is easily accessible by car. Airport Limosine service is available to and from Boston's Logan International Airport. The Colonial Hilton can also be reached by other modes of transportation (bus & train). Full details will be supplied to each registrant. Send check or money order only, payable to "1972 ANARC CONVENTION COMMITTEE".

Send Them To: Steve P. d'Adolf
16 Westgate Drive; Apt. 201
Woburn, Massachusetts 01801

STILL MORE CONVENTION NEWS

IRCA invites all WTFDA members to attend its annual convention June 30 - July 3 at the "Fabulous Inns", 2485 Hotel Circle Place in San Diego. 'Tis a good time to see "many of the interesting attractions San Diego has to offer, plus Old Mexico is only 20 minutes away." For further info, write: Grant Manning, 4034 Ingraham Street, San Diego, CA 92109 or phone 714-274-4233.

June 17: NNRC Picnic at Patapsco State Park, Baltimore. Host is Matt Zahner, 7224 Gough Street, Baltimore, MD.

September 4: National Radio Club, Miami. Write to: Ron F. Schatz, Box 2814, AMF, Miami, FL 33159.

EUROPEAN SCENE

Roger Bunney
58, Ticonderoga
Gardens
Weston, Southhampton
SO2 9HD, UK

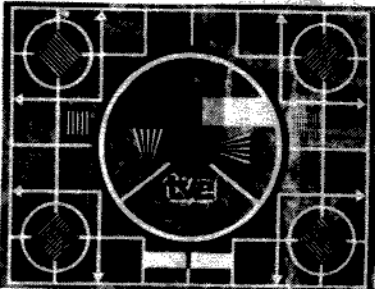
THE PAST FEW WEEKS has shown an improvement in conditions with more short periods of SpE activity. Prolonged SpE openings were noted over the fifth and sixth of April in East Germany with signals from Spain and Portugal. I gather that signals were strong. Tropospherics have remained rather quiet, although the 18th and 19th gave an improvement with various ORTF (France) VHF transmitters received. F2 has appeared as well, producing signals across the Equator with Spanish transmissions received in South Africa.

My own log for that period is-

- March 17 WG (West Germany) ch. E2; SR (Sweden) E2. Both by MS
NOS (Holland) E4 trp
18 SR E4; ORF (Austria) E2a; both MS; NOS E4 trp
20 WG E2; NRK (Norway) E2; both by MS
22 SR E2; WG E2 " " "
23 Hungary, Poland R1 by SpE
24 SR E2 by SpE
25 SR E2 by MS; NOS E4 trp
31 BRT E2 trp (Belgium)
- April 1 DFF (East Germany) E4 MS; BRT E2 trp. April 9 SR E2; NRK E2 SpE
2 CT (Czech) R1 SpE, BRT E2 trp 11 BRT E2 trp
3 DFF E4 12 SR Es; NRK E3 MS
4 WG E2 MS; BRT E2 trp 13 TVE (Spain) E2 MS
5 BRT E2 14 MR (Hungary) R1; TVP (Po-
6 SR E2 MS land) R1 MS; BRT E2 trp
7 WG E2 MS; ORF E2a SpE; NOS E4 trp 15 DFF E4 MS; BRT E2 trp
8 SR E2 MS; Hungary, Poland R1 SpE

The last week of March was without an efficient aerial system due to changes to new aeriels. The improved mast is now up with wide band arrays for all the bands (ie separate side band arrays) with rotor. A marked improvement is being noted. The 16 kw Cherbourg relay (ch. F12) is in daily under all weather conditions at about 110 miles, as is Brest F8 at 220 miles.

The news of F2 conditions came from Wallace Roane of Pietersburg, South Africa. Using a Sierra 19" receiver, he has been logging channel E2 in Madrid, Spain (TVE). Signals were being received up to the fifth when his letter was written. Signals arrive at approximately 1630 local time. This is the time, TVE begins test transmissions. Photographs sent with his letter are quite easy to recognize as the TVE test card, but not suitable for printing. (The TVE test card shown at right is for illustration only, as it is not a DX photo.) The sound "came through very clear" and the vision "is often quite steady for up to 10 minutes at a time". Coupled with the news last time of Rhodesian TV ch. E2 in both Cyprus and Malta, things must have been very active in other parts. I've been looking forward to hearing how conditions are in the Southern USA.



Apparently Rhodesia will be starting colour television in 1974 at Salisbury using the modified PAL system. RAI (Italy) has decided not to start colour for "several years".

Best wishes and good DX, Roger

FCC FM NEWS

Bruce F. Elving, Editor
Box 24
Adolph MN 55701

Here's the latest FCC news for June, 1972, compiled from a variety of sources. Remember, "h" means horizontal effective radiated power in watts; "v," vertical ERP; "E," stereo. Otherwise, I avoid abbreviations like the plague (except for the two-letter abbreviations for the states)! Except * = educational (public) station.

New Construction Permits

Big Bear Lake CA 101.7 598 h, 1806'
Durango CO 100.5 100000 h,v; 260'
Carrollton GA *84.3 10 h
Edgewater NE 94.3 3000 h,v; 173'
Waseca MN 92.1 3000 h,v; 300'
Lipicort NJ *50.5 2250 h, 100'
Oswego NY 105.5 3000 210'
Boone NC WASU *90.5 Power, height unknown. Can anybody supply the data?
Aspark OH 101.7 3000 300'
Altus OK 93.5 3000 150'
Ardmore OK 95.7 100000 h,v; 451'
Red Bank TN 94.3 3000 26'
Corsicana TX 107.9 28000 h,v; 330'
Ellensburg WA KXLE-FM 95.3 1400 h; -145'

On the Air!

Jacksonville FL *WJCT-FM 89.9 100000; 821'
Savannah GA WSGF 95.5 100000 h,v; 320'
Bloomington IL WESN *88.1 10 h
Wichita KS KICT 95.1 100000; 440' \$2
Columbia MO KFMZ 98.3 rock 3000; 300'
Ferguson MO KCFV *89.5 10 watts h
Boone NC WASU *90.5 [See above]
Vernon TX KWNC-FM 102.3 650 h; 340'
Seattle WA KCMU *90.5 10 watts h
Spokane WA KPXB *91.1 " " "
Ramah MN KTRB *89.7 2000 h,v; 330'

New Calls (Cont. from Previous Column)

Oak Ridge TN 94.3 WDUU (from WATO-FM)
Kaukauna WI 104.9 WKAU-FM (from WVLE)
Ladysmith WI 92.9 WWIB

W292AA Viroqua WI, 1 m, is reportedly back on the air with 85% of the problems in rebroadcasting WRVB Madison corrected.

KICT Wichita (see above) and WGBR-FM 101.7 Richmond KY: both program country music. WKUK *102.1 Kalamazoo now on 8 a.m.-2 a.m. Sat., Sun.; 6:30 a.m.-12:30 a.m. M-Th; 6:30 a.m.-2 a.m. Friday. WUCB *88.9 Lincoln IL on 8:30 a.m.-11:30 p.m. Sunday through Friday.

News of the Bahamas and Florida comes from Fort Lauderdale's Dick Clark: I was at the ZNS studios in Nassau, Bahamas recently and learned they plan to install a new 20 kw FM stereo station, but I don't know the frequency. They presently operate ZNS-1 107.1 and ZNS-2 107.9, both 50 watts [may be increased to 250 watts in the future]. ZNS-2 will feature soul music, while ZNS-1 has MOR music and talk and educational programs. Radio Progresso 90.5 in La Habana, Cuba, is now off and Radio Rebelde has taken it over.

New public stereo FM stations reportedly on the air are: WKNO-FM *91.1 Memphis, KBIA *91.3 Columbia MO, and KRMU *90.7 St. Louis MO. Waldo Bishop reports hearing the new WJCT *89.9 Jacksonville in stereo and identifying as "FM Stereo 90." WBEZ *97.5 Chicago, with a Corporation for Public Broadcasting grant, will become a National Public Radio outlet, expanding on September 1, 1972, to 7 days a week, 14 hours a day, 52 weeks a year. Also in Chicago news, the imminent sale of Zenith's classical music stereo station WEFM 99.5 to GCC Communications of Boston is expected to bring a format change and new call letters. GCC bought WAVO-FM Decatur GA and changed the music and call letters (now WPCH). It looks like the citizens group in Milwaukee will be successful in preventing the sale of WPMR to Bartell Media, and in keeping the classical music format of WPMR 96.5 intact. WOOD-FM 105.7 Grand Rapids is on with low power, due to ice storm damage.

Reporting from Louisiana, Mike Dornier, Jr., notes that WIXD 98.5 New Orleans has replaced WMON in 4, top 50, 24 hours. It's supposed to be off Monday mornings 12-6 a.m., but I've heard them at 5:30 on a Monday. I recently spent an afternoon with the family that owns WOSM 103.1 Ocean Springs MS, and they are fine people. WOSM is a religious music station, but is a commercial station, not owned by a church. It is non-sectarian, and will not broadcast

Call Letter Assignments

Talladega AL 92.7 WHTB
Tuscaloosa AL *91.7 WUAL
[Who remembers WUGA *91.7?]
Lake Havasu City AZ 95.9 KRHM
Salinas CA *90.9 KAUG
Daytona Beach FL 94.5 WDNJ (was WNOB-FM)
Albany GA 101.7 WNCW
Atlanta GA *91.9 WRFK
Wailuku HI 95.1 KMHI
Mt. Carmel IL *89.1 WVIC
Crown Point IN 103.9 WFLM
Indianapolis IN 103.3 WRTZ (was WGEE-FM)
Hutchinson KS *90.1 KHCC
Lexington KY 98.1 WLEX (from WLEX-FM)
Aitkin MN 94.3 KEZZ (from KKIN-FM)
Ramah NH *89.7 KTRB
Charlotte NC 104.7 WEZC (from WYFM)
New York NY 107.5 WBL5 (from WL1B-FM)
Napoleon OH 103.1 WNDH
Youngstown OH 101.1 WHOT-FM (was WRFD)
New Iberia LA KLNI 99.1 (was KNIR-FM)
Dearborn MI 100.3 WNIC-FM "W-Nice" (was WKNR-FM) MOR.
Lubbock TX KLSO 1*91.1
Greenville SC *90.1 WEPB

Station Changes

Chico CA KPAY-FM 95.1 6200 h,v; 1160'
[Watch for this powerhouse, D. Smith!]
Jacksonville FL WFAM *91.1 to 37000 h,v; 460'
Jacksonville FL WJAX-FM 95.1 100000 h,v; 457'
Savannah GA WHSI 96.5 to 1160' (100 kw) 70 mi.
Minneapolis IL WRVI 95.3 to 3000 h,v; 180'
New Castle IN WCTW-FM 102.5 to 10000
Joliet IL WJAP 93.5 to 3000 h,v; 260'
Robinson IL WYAF-FM 101.7 to 3000 h,v; 245'
Kansas City KS KUOL-FM 98.1 to 100000, 240; drops Stereo.
Ft. Campbell KY WABD 107.9 to 3400; 230'
New Orleans IL WRNO 99.5 to 56000 h,v; 370'
Hammond LA WFRP-FM 107.1 (not 101.7 - and thanks to Mike Dornier for this tip!)
Baltimore MD WTRH-FM 104.3 adds v
Meridian MS WALT 97.1 adds v
Bemidji MN KBHP 101.1 to 58000 h,v; 350'
Hamilton MT KLYQ-FM 95.9 to -790' (2000 h, v)
Cape May NJ WR10 102.3 to 270' (3000 h,v)
Schenectady NY WHTT-FM *89.1 to 13500 h,v; 810'
Rochester NY WRQC-FM 97.9 to 50,000; 400'
Lebanon DR KMS 103.7 to 30000; 285'
Providence RI WPRO-FM 92.3 to 39000 h,v; 550'
Cleveland TN WCLE-FM 100.7 to 360' (50 kw)
Jamestown TN WRBE-FM from 100.1 to 103.9-1200 h; 450'
Austin TX KTRC-FM 93.7 to 97000 h,v; 1050'
Conroe TX KNRO-FM 106.9 to 100000; 240'
Hartington TX KLTZ-FM 94.5 to 100,000 h,v; 730' [A major station change!]
Mc Allen TX KQXZ 98.5 to 26000; 280'
Enclave VA WEXM-FM 107.5 to 275' (270000)
Shawano WI WTCH-FM from 100.1 to 99.3 3000 h; 180'. Eventually, WROE Neenah will move from 99.3 to 94.3; WTTN-FM Watertown from 104.7 to 94.1 to give Hartford a new channel.

stump-thumping preachers, will not even hire ministers or preachers to serve as disc jockeys. It is housed in a trailer quite a distance out of the Gulf resort town of Ocean Springs (near Biloxi), but will begin building a permanent studio soon. The station continues to broadcast in mono, but will return to stereo when the ERP is doubled to add vertical polarization. It now signs on at 5 a. m., rather than 6 a. m., and runs until midnight. Mike also reports that WHSY-FM 104.5 Hattiesburg has been exhibiting very poor audio for some time, tinny, such as that coming over inferior wire lines. It makes their stereo sound ludicrous. KITY 92.9 San Antonio is now in country music. Mike also reports on the situation near the Mexican border where several Tijuana stations have knocked out several possible commercial and educational assignments in the United States. So serious did I consider the problem that he outlined to be that I sent the data to the director of radio planning for the Corporation for Public Broadcasting. The CPB is grappling with the problem of recommending new public radio assignments in the Los Angeles area.

Bruce R. Rummel, Fleetwood PA, reports in answer to Shelby Remington's questions that nobody alive has ever yet received W1BQ-FM Utica NY, which will operate on 98.7, not 94.9, because of an interference problem to high-band TV reception from 94.9 operation locally. WYFI 99.7 Norfolk VA, as recently as last October, was on daily 6 a. m. to midnight with stereo religious programming. WCAU-FM 98.1 and WPEN-FM 102.9 both Philadelphia do not have stereo. WDSB 94.7 Dover DE identifies as Dover-Smyrna DE. WKTK 105.7 identifies as Catonsville MD (not Baltimore), and WBOC-FM 104.7 identifies as Ocean City-Salisbury MD [right, H. Holbrook?].

Bruce Dean, Boston, offers insight into the possible reasons why Shelby Remington has never received WCCM-FM 93.7 Lawrence MA in the New Haven area: "WCCM-FM 93.7 Lawrence has operated for many years, at one time under the call letters WGHJ. It is not yet at the authorized 50 kw, 400 feet, facilities, although that construction permit seems sure to be effected shortly. Present operations 1.35 kw at 210 feet. One problem Mr. Remington may have had in DXing it is that, until very recently with the FCC's minimum-time of operations requirements, WCCM-FM signed off at the same time as the daytime AM—as early as 4:15 or 4:30 p. m. With the effect of the minimum-hours requirements, WCCM-FM is now operating into the evening hours—I would guess until 10 p. m." Bruce Dean also cleared up the W1BQ confusion, noting that W1BQ will be owned by W1BX (AM) Utica.

Geyer Alex Bowab, WKXI, Box 6689, Jackson MS 39212, reminds us that with the DXing season coming on strong, to send him reports. WKXI is a stereo soul music station all night, except midnight to 4 a. m. CDT Mondays only. 94.7 mhz.

Big changes are in store at WUSV *89.9 Scranton PA, reports Wm. Dickerman, Williamsport. The United States Department of Health, Education and Welfare has recently approved a \$105,000 grant for the establishment of a public educational FM station in the Scranton-Wilkes-Barre area, to be operated by WVIA (TV). They will have the equivalent of 100,000 watts at sea level, and 2500 feet above average terrain, with tower adjacent to that of WYZZ. Programming will be similar to that of W1TF-FM Hershey, but they expect to be on more hours. It will be on *89.9 and will presumably supplant WUSV.

Dr. Richard Wood reports that the power of XENV-FM 90.0 Monterrey, Mexico, is 250 watts. He also sends a clipping which notes that WQXY 100.73 Baton Rouge has applied to the FCC for permission to transfer the license to WLECS (AM). It will be remembered that a WLECS-FM once operated in Baton Rouge on 101.1 [verified in Duluth in about 1953].

Robert Baker, Humboldt IA, reports that his home town station, KHBI 97.7 is stereo. He also notes that KWAW 95.9 Webster City IA has been off the air since the spring of 1971 [not listed in the 1972 Broadcasting Yearbook—presumed deleted]. WOI-FM 90.1 Ames IA moved to the 2000' central Iowa tower (at Alleman IA) March 22, 1972 (100000 h, v; 1490'). WHO-FM 100.3 Des Moines moves there shortly. Al Ellis, Brantford, Ontario, sent a tape containing samples of his reception of WDUQ *90.5 Pittsburgh PA, first noticed with increased power in mid-April and the strongest Pittsburgh-area station he receives. WDUQ sends out 25000 h, v; 480' from Mt. Washington, overlooking downtown Pittsburgh. In \$ too. Al reports that CBL-FM 94.1 Toronto has its tower on Christie St. at just about the lowest spot in Toronto, but has plans to move to a new tower a-building at the Union Depot, which will be 1500-1800 feet tall.

Mike Collins, Stratford CT, writes that WRCN 103.9 (formerly WHRF-FM) Riverhead NY is now on with 2600 watts, 320'. Extremely strong on the CT shore; simulcasts WHRF days, but stays on until 10 p. m. WCCM-FM 93.7 Lawrence MA is still 1350 watts and quite weak at 30 miles. WDJF 107.9 Westport CT will increase power, although short-spaced to WBL5 107.5 New York. Does WBL5 have \$? These FM stations have directional antennas: WCTO 94.3 Smithtown NY - E; WPSB 99.9 Bridgeport CT - null'd W to protect WEXX-FM Easton PA; WTFM 103.5 Lake Success NY [transmitting from the Chrysler Building, downtown NY] null'd to SW to protect WPRB 103.3 Princeton NJ. WBYN-FM 93.1 Springfield MA protects WPAT-FM Paterson NJ. Both Manchester NH farms are directional: WZID 95.7 and WNH5 101.1. W1CH-FM 97.7 Norwich CT, \$, is now 24 hours, but silent midnight to 5:30 a. m. Mondays.

Fred McCormack, Des Lacs ND, and **Mike Dorner, Jr.**, both sent information as to where Mandaree ND is. KRSS *88.1 is the new station in Mandaree on an Indian reservation near the Garrison Reservoir, about 30 miles east of Watford City. Interestingly, notes Mike, the Indians have recently built another FM near Gallup NM [KTDB *89.7 Ramah] — could it be that white eyes' wireless make heap-big smoke signal? Mike has available a table listing the number of available FM channels in each of the 50 states, as well as for American cities of over 25,000 for an 8¢ stamp. Write Mike Dorner, Jr., 1409 Nymetta Ave., Metairie LA 70003.

Andy Bolin, Charleston IL, says WDJC 93.7 Birmingham does not seem to have stereo, while WAOV-FM 96.7 Vincennes IN is stereo only on Christmas Eve each year! WXYZ "Ecstasy" 103.3 Indianapolis temporarily dropped \$ but plans to resume \$. Bob Eddy reports that WTAP-FM 103.1 Parkersburg WV has lately been operating on 102.7, but the station denies being off frequency. Richard Steinberger, Hudson MA, reports WLVH Hartford and WGCY New Bedford as having Spanish programming [Standard Rate and Data lists WGCY as having Portuguese; are you sure it's Spanish?], WOTW-FM Nashua NH with no stereo but country music; WWHN West Hartford CT and WMEH 90.9 Bangor ME as \$. Dennis Smith says — don't list only coverages in response to a question raised in the April column. So I will quit giving coverage data — only ERP and heights. Dennis mentions that KTAO 95.3 Los Gatos CA was formerly commercial, but is now noncommercial, listener-sponsored.

SOUTHERN FM DX

Editor:

Dr. Richard E. Wood
820 Arlington Avenue
Baton Rouge LA 70806

(504) 343-7771 any time

FEATURING FM FEATS FROM FLORIDA TO FRISCO

DEADLINES: For July issue: June 12, to above address.

For August issue: July 12, to: X Summer Sessions Office
University of Portland
5000 N. Willamette Blvd.
Portland OR 97203.

For September issue: August 8, to Baton Rouge.

Pat Dyer, 327 Solar Dr., San Antonio TX 78227. Wards 62-1, 2-ft. whip.
CST used throughout, new underlined.

Jan 9: KNOK 107.5 Ft. Worth TX (240 mi.), 2356.

Jan 10: 0100 KFAD 94.9 Cleburne TX (215).

Jan 19: 1232, KFAD.

Jan 22: 0030 KBUY 93.9 Ft. Worth; 0035 KRLD 92.5 Dallas TX (250);
0039 KFAD; 0043 WBAP 96.3 Ft. Worth; 0100 KXOL 99.5 Ft. Worth; WFAA 97.9
Dallas; KOAX 105.3 Dallas; 0115 KNOK; 0145 KNUS 98.7 Dallas.

Jan 23: 2300 WSJC 107.5 Magee MS (555); 2302 KJET 107.7 Beaumont TX
(275); 2315 WKXI 94.7 Jackson MS (535); 2328 WQNZ 95.1 Natchez MS (460).

Jan 24: 0000 KWKH 94.5 Shreveport LA (365); 0002 WAFB 98.1 Baton
Rouge LA (450); 0005 WKYV 106.7 Vicksburg MS (505); 0014 KNOE 101.9 Monroe
LA (450); 0142 KTAL 98.1 Texarkana TX (390).

Apr 11: 0947 KLBK- 94.5 Lubbock TX (350); 0953 KLLL-FM 96.3 same;
2030 KEBC 94.7 Oklahoma City OK (410); 2043 KNOK- 107.5; 2101 KCCQ- 98.1
Lawton OK (340); 2143, WFAA- 97.9 Dallas (250).

Apr 12: 0032 KELT- 94.5 Harlingen TX (215); 0045 KXOL- 99.5 Ft. Worth;
0047 KNUS 98.7; 0100 KIXL- 104.5 Dallas; 2012 KAMC 94.9 Arlington TX (245)
(note call & location change from KFAD, above; no mention of Cleburne on
KAMC letterhead, REM).

Apr 13: 0059 KEEL- 93.7 Shreveport LA (360); 0101 KTAL- 98.1
Texarkana TX (390); 0115 KXOL-; 0120 WBAP- 96.3; 0130 WFAA-.

Apr 19: 2159 KELT-; 2200 KQXX 98.5 McAllen TX (220); 2205 KBFM 104.1
Edinburg TX (215).

Apr 20: 2315 KELT-.

Apr 21: 0001 WFAA-; 0002 KRLD- 92.5 Dallas; 0007 KXOL-; 0018 KNUS;
0020 WBAP-.

As column deadline approaches, it appears the Es season is finally
getting into full swing. (It is indeed, REM). May 8 evening w/ MUF to Ch
4 but checks on FM band found nil there. (Thanks for a well set-out report
Pat; but how about including some program details - I'd be glad to type
them; just an abbreviated statement of format, sign-off or sign-on,
language (if not EE), etc. would be of great help to your fellow-members.
I personally would like to know, for instance, if KELT- was EE or SS. REM).

Ron LeBlanc, 2524 Arizona Dr., Marrero LA 70072.

A correction on last month's report. The SS opening of Mar. 7 lasted
until 2100, not 1900 as indicated. (That checks with my estimate, REM).
Also on Mar. 31 at 1802 on 93.7 should have read XEJZ R. Variedades, Mexico
DF, not XEIZ. Time of reception of Havana Cuba stn on 90.5 was 2100 3/26.

For 2 wks straight in Apr. many TX stns were in constantly. All stns
underlined are new.

4/9 2200 WWAG 94.1 Carrollton AL (280) in after McComb MS s/off, \$.
2235 KNRO 106.9 Conroe TX (327) \$ 1070 \$.

4/11 2230. KNFA 89.5 Austin TX (460) CL 2230 till s/off (when? REM).

Ron LeBlanc (Cont.)

4/12 0020 KOFM 104.1 Oklahoma City OK (575) very weak, just did get ID. 0130 finally caught local WNOE off the air and in was KLOL 101.1 Houston TX (321) \$ (still much needed here even w/ WNOE 73 mi. away, REW). 2030 unid. 100.7 sideband next to WQXY 100.7 missed call but caught freq. & the word TX, probably KASE Austin TX. 2100 WKND 91.1 Memphis TN (366) Big Band sounds; 2150 KASU 91.9 Jonesboro AR (417) rx & wx; 2200 KHIC 104.9 Paragould AR (430) Hit Parade at \$ 105, (hrd here a few minutes later, same night, nice tropo down the Mississippi on a busy freq., REW); 2230 KRLD 92.5 Dallas TX (456), 2325 WMBQ 105.9 Memphis TN \$ Solid Gold (366); 2355 KOTN 92.3 Pine Bluff AR (323) local nx.

4/13 0020 KMPH 93.9 West Plains MO (496) wx. bulletin, tornado warnings. (This coincided w/ a good tropo opening to MO here, see my report, REW).

4/14 0017 WRAS 88.5 Atlanta GA (406), 0040 WZGC 92.9 same \$ Solid Gold.

4/16 2245 WRFS 106.1 Alexander City AL (312) wx.; 2301 WIRB 96.9 Enterprise AL (280) (much wanted here, REW) religious prog., 2322 WFMI 98.9 Montgomery AL weak (programming? REW).

4/18 1900 KRIL 99.3 El Dorado AR (285), 2230 KDNT 106.1 Denton TX (484) local nx., 2303 KFRY 107.9 Magnolia AR (300) s/off.

5/5 many TX stns hrd from 300 to 500 mi.

5/6 same stns hrd as the night before.

Well, it doesn't seem like anything will break in the next couple of days, so I had better get this report in the mail. There has been some skip on TV every day this week, 8, 9 and 10 (May), but it only reached Ch. 3, nothing on FM. Total stns heard now 266, 13 states, 4 countries. Well, till next month, 73's.

Later: By telephone, Ron reports the E-skip opening to E. Canada which I noted simultaneously around 1930, 5/14. Ron's only logging was CJRT-91.1 Toronto Ont. w/ CL wx., his first Canadian. He had overload problems in the commercial band, his locals being in the same direction as the Es opening, N.E. Since we've brought up the subject of this fine E-skip opening, let's proceed with my report.

Richard E. Wood, 820 Arlington Avenue, Baton Rouge LA 70806. CLT used.

Big news this month is the beginning of the early-summer E-skip season, w/ Canada and upstate New York logged in a particularly nice early evening opening 5/14.

Tropo is well down compared w/ last month, though there was one nice session North up the Mississippi to St. Louis. Particular deterioration was noted, however, on trans-Gulf and east-west, west-east paths to TX and FL. To compensate, Ms was logged from Pittsburgh. When there is no tropo around, I generally leave my rx tuned to either of my two low commercial-band frequencies which are free of local stations, 92.9 or 93.9. These are the best guides to the advent of Ms or Es within the FM range. This could, of course, usefully be supplemented by checking the adjacent TV channels.

After some deliberation, I have decided to use CDT during the summer period; mainly because I feel that these reports are chiefly designed as a guide to other DX'ers within the same area and time zone, but also because the broadcast stations, which are our stock-in-trade, use DST, where applicable, in scheduling. In scientific reference studies, on the other hand, CST, or perhaps even better, GMT, could be used. Whichever standard you use, please specify.

Equipment is unchanged from last month. Totals now stand at 360 heard from 4 countries; 23 states; 2 provinces. 25 by Es, 4 by Ms.

Reason for my early deadline in Aug. is a trip to Europe, flying to London 8/10; teaching at Liège U., Belgium; returning from Amsterdam.

Richard E. Wood (Cont.)

4/17 WKXI 94.7 Jackson MS (139), already heard w/ regular power, conducted a special DX test at reduced power. As luck would have it, the pre-arranged night was the only night in over a week which showed little or no tropo; hence, though DX'ers in Tallahassee and San Antonio were forewarned, the test did not even reach them w/ full power in use. Fate! Our thanks, however, and "better luck next time" to MW DX'er J. Alex Bowab, Stn. Owner/Manager, for thinking of us; and let's all send this friendly Soul stn good reports. In fact, let's try to persuade J. Alex to make the switch [as your Editor has done] from MW DX to FM DX!

Anyway, all was not lost; the reduced power test was noted here, at about 1400 watts and again - though much weaker - with approx. 1000-watts. Test was intermittent between 0008 and 0048, w/ power switches and info on DX-ing. TT, marches, Nat. Anthem, phonetic ID's, etc. were used. Verified w/ 2 separate letters for regular & reduced power.

4/18 tropo opening into AR and MO: KHIG-104.9 Paragould AR (388) 2230-2245 Hit Parade \$. Name is pronounced "...gould". Verified as most distant report. New KCWR 104.9 Oakdale LA (92) 2240-sign-off 2303; MoR, off w/ Gershwin's "Porgy & Bess", no Anthem. KRCV 107.7 St. Louis MO (567) auto. old hits/MoR 2315-2335. KARN- 103.7 Little Rock AR (299) 2340-2400 Solid Gold, confused, disjointed programming w/ sign-off info after dead air 2345 then continuing w/out explanation. Seems like this new stn (ex- KARK-) is not yet fully organized.

4/19 KRAA 94.1 Little Rock 0005-0011 local nx., wx., s/off w/ SSB orchestral. KADI 96.3 St. Louis MO on its new freq., ex-86.5 (where not heard here) 0030-0045 state nx., wx., into RR albums, ID "KADI ("Cady") where Rock is God". KWYN- 92.7 Wynne AR (325) 0732-0750 live discussion and humor show, 2 announcers in studio. KADL- 94.9 Pine Bluff AR (264) 0745-0800 C&W. WKND- 91.1 Memphis TN 0800-0830 (328) s/on, ID as "Public R. for the Mid-South", into CL, late 19th. Centuryworks.

4/24 WAAZ 104.9 Crestview FL 0000-0010 local nx., wx., Brahms' Lullaby and s/off.

5/6 schedule change noted for semi-local WQNZ 95.1 Natchez MS (78); ends canned Hit Parade 0000 and goes into live RR album show; had requests from Baton Rouge; this not noted nightly, however.

5/9 KBER 100.3 San Antonio TX (450) 0239-0255 C&W, format similar to KITY 92.9 in same market but less sophisticated; KITY is more "Country-politan", as they say.

5/10 KAMC 94.9 Arlington TX (380) 0715-0730 lengthy newscast from this burgeoning community, ID'ing as "Arlington's official radio stn" indicative of licensing to Arlington (ex- KFAD Cleburne).

Then on 5/13 the beginning of E-skip: KKLS 93.9 Rapid City SD 1936 \$ Schlitz spot, unneeded (all stns otherwise reported are new).

Unidentified from this Ee to the northern Mid-West; 93.1 1950 hit "Sylvia's Mother", \$; 92.9 2012-2020 beamed N, mono, Soul/heard RR by "The Black Oak Arkansas" group (?); 91.5 2015 CL, probably KANU.

5/14 tapped the previous day: Es WBNY- 96.1 Buffalo NY (1094) 1955-2013 MoR/EL, mono; 2009 promo for Paul Harvey show; WDBS- 93.1 Syracuse NY (1199) 1958-2003 spot for private school, PSA, ID, into EL 2000; my first Canadian, CFMO 93.9 Ottawa, Ont. (1327) 2000-2005 local & provincial nx., Canadian-tinged announcer, RCMP open day invitation, lovely signal; CKMF 94.3 Montréal P.Q. (1406) 2002-2009 spot for "salon de stéréo" in Montréal, flavorful FF pgm, beautiful \$; WGR- 96.9 Buffalo NY 2005-2011 RR, Solid Gold, t/c, ID, \$, almost pinning meter; then the Es evaporated.

5/15 unkn. WHOD- 104.9 noted announcing FM back on air after several days' absence due technical problems; Collins men flew from Dallas to Jackson AL to fix it; hrd. 0749-0800.

5/17 KDKA- 92.9 Pittsburgh PA (930) luckily doing a local spot on Ms 0850; mono.

Mike Dorner, Jr., 1409 Hymelia Ave., Metairie LA 70003.

April has been a rather poor month, w/ few openings of consequence after the 9th.

On 4/12 2216 WDBO- 92.3 Orlando FL w/ MoR mx., 24 hr. service, & a spot for Orange State Bank. The only thing noted from FL at the time, and the last of the Orlando area stns for me.

4/13 2200 KGCC 89.7 Denison TX w/ nx headlines & rock mx., weak signal w/ much fading, barely audible at times.

4/16 0959 brought in long-sought WNBX 98.1 Andalusia AL w/ MoR mx. & nx. ID "Your full-time \$ service in Andalusia". (Still much sought here, REW).

4/18 2003 surprising WMIT 106.9 Black Mountain NC, one of the nation's pioneer stns w/ nx., mostly state, and an ID at 2008. Weak & fading, but came in and out approx. for next hour. Birmingham also in, but nothing else new.

4/19 0608 WMFC- 99.3 Monroeville AL w/ \$ MoR & spot for local store. Automated, extremely few breaks. WHOD- 104.9 Jackson AL also in beautifully. 2128 that night WKNO- 91.1 Memphis in mono w/ NPR programs.

4/20 0600 WEZZ 97.7 Clanton AL in very strong, but not a new catch. 0730 WGOV- 92.9 Valdosta GA w/ C&W mx. automated & PSA for handicapped. This stn rarely breaks & shows no imagination in programming. Compare WNOE- 101.1 for example. (However, their verification was almost imaginatively ugly, scrawled on the back of several pieces of paper roughly torn and taped together, REW). Steady signal, \$.

4/24 0010 KIGU- 96.5 Corpus Christi TX w/ \$ EL mx., sung ID & spot 0019; good signal blocking KAUM 96.5 Houston. This completes the Corpus area stations save one.

All of the above catches unless noted are new; total now stands at 296, and I'm pushing the limits of my Heath AR-13A. 73.

Glenn Hauser, % Box 62, Von Ormy TX 78073. (8 Apr-8 May) (CST)

April had some good tropopenings, but contrary to propagation predictions, it certainly was not THE Gulf tropo month. October, November, December and March were much better. Highlights of the month were my 1st FM tropo from deep Mexico (XHP8-99.7); most wanted ID-watter (KTAL-91.9), and another kilowatt-plus class A tropo catch (WTLN-95.3). I expect the "season" is just about over; however, I have a better FM setup this summer than last. Although several TV Es openings appeared, none have yet reached FM here; however, my new working hours of 1230-2130 CST weekdays at KENS-5 will force me to miss a lot of afternoon/evening Es openings.

By the way, since VHF DX propagation (both Es and tropo, and even MS) depends on the time of day, my logs remain on CST yearround. (You seem to love those line-style compounds, Glenn, cinemactress and its ilk, REW). DST is misleading and quite irrelevant.

1004M	2231 94.9	Tr	KBIM-	Roswell NM	400 ID by McMaster
	2302 92.1		KBAD-	Carlsbad NM	395 weak s/off just after KNBT off
1104T	0000 92.7		KOYE	Laredo TX	130 s/off, cymbally SSB, after KITY s/off
	0010 96.3		KLLL-	Lubbock TX	345 jingle ID, C&W
	0640 91.7		KOSU-	Stillwater OK	480 morning mx; again 2041, Bernstein on jazz
	0647 93.7		KSEL-	Lubbock TX	345 ID in passing
	0701 96.1		KOCY-	Oklahoma City OK	435 NBC nx.
	2034 90.9x	Gw	KQXT	San Antonio TX	15 spur not hrd before or since, probable due installation of new xmtr/antenna.

SUPPORT YOUR COLUMN; YOU CALIFORNIANS, WHERE ARE YOU?
FLORIDIANS, TOO. (Waldo Bishop, where are you now?)

FM SOUTH AND SOUTHWEST

JUNE 1972

Glenn Hauser (Cont.)

1204W	0130 92.1	Tr	KSFA	Nacogdoches TX	285	ID, soft mx.
	0200 96.1		WLPR-	Mobile AL	640	Columbia House ad, ID, Update nx.; MS QRM
	0629 91.7		KOSU-	Stillwater OK	480	and KOSU/KVRO Farm Report; Portals of Prayer; in for some time
	0631 94.7		KEBC	Oklahoma City OK	435	KEBC Super Country ID
	0632 98.1		KCCO-	Lawton OK	365	nx
	0701 89.1		KMUW	Wichita KS	585	KS nx; 0730 ID
	0731 92.3		KJRG-	Newton KS	605	automated pause, ID, nx (Glenn: how can tell that a particular pause is automated? Does it sound different from a live pause? REW)
	0733 96.9		KCRC-	Enid OK	490	local nx
	0749 91.5		KANU-	Lawrence KS	695	Kansas City area nx w/ ABC nx inserts; 0800 "lots of fog"
	0805 91.3		KOCV?	Odessa TX ?		pop mx., NW; on earlier than before
	0806 90.1		KCSC-	Edmond OK	445	campus nx show o/ KPFT; not on at checks before 0800
	0853 107.7		<u>KSWT</u>	Topeka KS	695	"K-Sweet 108" ID, nx of KS; 0901 ID; EL
	0903 105.9		<u>KLWN-</u>	Lawrence KS	695	KS nx; 0905 mx.; fog; AM & FM ID
	0938 94.1		<u>KCKN-</u>	Kansas City KS	715	jingle ID, ad for Olathe
	0943 94.9		<u>KFMU</u>	Kansas City KS	715	KC ad; \$ 95 time,
	1005 90.9		<u>KCMW-?</u>	Warrensburg MO?		MoR; 1011 \$91 mx; 1015 DX almost gone from KS, MO, OK
	1038 89.3		KCUR-	Kansas City MO	715	NNE, class. mx
	2231 89.9		<u>WNWO-</u>	New Orleans LA	510	2243 end Opera Hall, ID; 2301 God Bless Am. & 2302 off
	2347 91.7		KTRU	Houston TX	200	E, rock, weak
1304Th	0457 88.5		WRAS	Atlanta GA	890	RR; 0100 ID and off
	0058 91.1		<u>WREK-</u>	Atlanta GA	890	ID, "The most powerful student stn. in the country" pop mx
	0107 96.1		WKLS?	Atlanta GA ?		
	0131 103.3		KEFM	Nacogdoches TX	285	ID
	0132 105.3		KOAX	Dallas TX	250	Koax promo, ID
	0147 94.1		WPEX-	Pensacola FL	695	home VTR ad (? , REW), ID
	0153 92.9	Gw	KITY	San Antonio TX	15	Format switch: MoR to C&W, and 24h!
	0200 98.5	Tr	WIXO	New Orleans LA	515	ID, RR; new call ex-WNOM
	0525 94.9		WLCY-	Tampa FL	990	Clearwater ad (Not Creedence, in this case, I take it, REW)
	0533 95.3		WTLN-	Apopka FL	1035	hymns; 0545 ID (good, REW)
	0624 107.3		WHYD-	Columbus GA	835	"In the Country", ID
	0635 89.3		WPCS	Robertsdale AL	660	sermon; good at 0859, only one left
	0655 105.9		<u>WDLF</u>	Deland FL	1045	C&W, Deland Sears ad
	0715 107.9		<u>WRAI?</u>	Panama City FL ?		Hymn or organ; 0718 Citizens Drugs ad

WHY NOT SIT DOWN AND SEND A REPORT TO THIS COLUMN TODAY?
 SHARE YOUR LOGGINGS; THIS IS A VOLUNTEER CLUB OF VOLUNTEER
 EDITORS, PUBLISHERS AND HOBBYISTS...NOT A SUBSCRIBER MAGAZINE!

FM SOUTH AND SOUTHWEST

JUNE 1972

Glenn Hauser (Cont.)

1404F 0024 98.5 WIXO New Orleans LA 515 record giveaway
 0059 93.3 WDSU- New Orleans LA 515 s/off no SSB
 0100 95.7 WBYU New Orleans LA 515 mx, ID
 0530 94.1 WPEX Pensacola FL 695 ID // WLCY: 0645-0655 vy.
 good, nx, HP mx
 0537 94.9 WLCY- Tampa FL 990 ad, USF PSA; 0732 ID
 0542 96.9 WINK- Ft. Myers FL 1045 Gulf ad, EST TC by McMaster;
 never any WUSF
 0603 96.3 WJIZ Albany GA 875 ID in passing
 0618 89.3 WPCS Robertsdale AL 660 hymns (lic. to Pensacola,REW)
 0627 107.9 WMAI Panama City FL 780 PSA, ID, CST
 0629 101.5 WBOP- Pensacola FL 695 ID, soul, MBS nx
 0659 96.9 KVMV- McAllen TX 210 s/on in EE & SS, incl xmtr
 failure; QTH: 4¹/₂ mi. S of
 Pharr

1704M 0005 94.7 WKXI Jackson MS --- NOT HEARD; no sign of QRP
 test; no tropo (Shams, REW);
 WKXI was not on the air at
 precisely 0005, but test began
 0008; assume you checked back
 a few times, REW)

1904M 2230 81.7 KTRU Houston TX 200 ID, weak
 2243 91.9 KTAI Kingsville TX 130 C&W, ID; 2248 "Mighty 91.9"(t)
 interrupted by brief xmtr
 failure; Soul mx; 2345 cx
 normalize; 0003 still audible,
 weak; 10-watt (Nice, REW)

2004Th 0013 96.1 WLPR- Mobile AL 640 ID "\$ 96".
 2350 91.9 KTAI Kingsville TX 130 mx, DJ, "Big 91.9"; 0055
 traces, 0059 Zarathustra mx;
 0100 vy weak s/off, mx

2104F 0000 99.7 XHPB- Veracruz Ver 715 KISS off but KROB SB QRM
 slight; "12 en punto"; 0008
 no sign of 94.1, 91.9, 98.9;
 0013 PB Estéreo promo, ID;
 "18 hpd" (?); 0017 mx mostly
 EE, US old favorites; 0030 ads
 but no ID; 0045 fading out.
 syndie crap (You are a man of
 strong views, Glenn, REW);
 2130 ID

2904S 2125 94.9 Tr KBIM- Roswell NM 400 local ad
 2145 95.7 KLOG Hobbs NM 355 local ad
 - times continue CST -

0305M 1103 90.5 MS unId pop mx, CDT/EST TC
 1103 89.3 unId nx. ment. voting snafu in
 Cuyahoga County, indicating
 this an Ohio station

0505F 0545 96.1 Tr KOCY- Oklahoma City OK 435 mx N; 0559 ID KOCY-FM \$
 0608 91.7 KOSU- Stillwater OK 480 local mx
 0650 98.1 KCCO- Lawton OK 365 nx sponsored by Coors; hum
 when live mike on
 0652 101.5 KLAW- Lawton OK 365 Mig Boutique in Lawton ad 0655;
 EL; 0659 ID, A1 nx.

Until the next, 73 de Glenn.

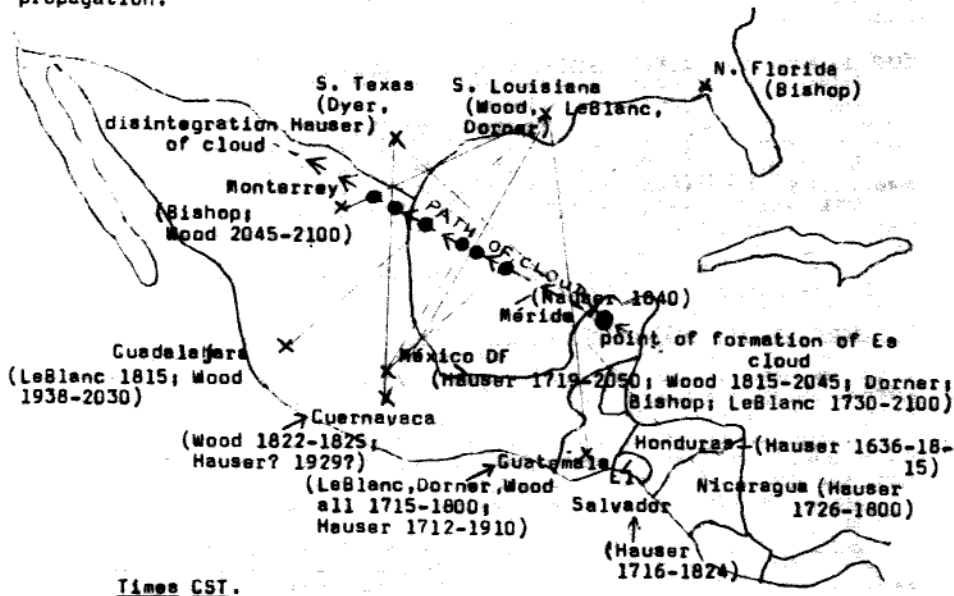
SUPPORT YOUR CLUB; REPORT TO FM SOUTH AND SOUTHWEST
 All reports - short or long - are welcome. Please
 observe standard 2-letter state abbreviations, and
 other conventions: Gw, Tr, Ms, ID, C&W, \$, SS, etc.

THE CENTRAL AMERICAN E-SKIP OPENING OF MARCH 7

by Leslie J. Prus and Richard E. Wood

The following is a tentative mapping of the remarkable E-skip opening to Central America and Mexico observed independently by half-a-dozen WTFDA members in different parts of the Southern U.S. in the late afternoon and early evening of March 7, 1972.

The physical size of E-s clouds is on the order of 10-50 ft. Velocity is around 180 m.p.h., and constant. They travel in a straight line. QSI for December 1970 has an outstanding article on E-skip propagation.



The E-skip cloud formed somewhere over Yucatán, and moved northwest until apparent fade in Northern Mexico. This shows graphically why Hauser received Honduras, El Salvador and Nicaragua for long periods while Wood, LeBlanc and Dorner were only receiving Guatemala, and why Bishop received ONLY Mexico. The E-s cloud is usually located within a couple of hundred miles of the midpoint (receiver/transmitter) and near the great circle path. Triangulation can locate the clouds. Once a track is plotted, the probable geographic location of a logging at a certain time is easy to determine. Error can be reduced to 25-50 miles.

WTFDA

TV station list

Thirty pages of VALUABLE data, including station listings for the US, Canada, Mexico, Cuba and Costa Rica. Satellite stations are listed with their station of origin identified. Many UHF offsets are also listed. Order today, in time for plenty of DXing pleasure! (From Hq)

"Designed by and
for DXers"



WESTERN TV DX

Dennis Park Smith
1200 W. Sacramento Ave. #15
Chico, California 95926
(Address change, last page)
Deadlines: 12th of each month

June 1972

Old business: Another correction—in fact, the same as last month's "correction" which was still in error. "KABG-6" Greenwood MS in Glenn Hauser's report in March column, upper right, should be WABG-6. New business: Pat Dyer has a request concerning past DX. See his report.

There was some fairly good tropo reported by almost all DXers east of the Rockies around 11-12-13 April. Glenn Hauser saw more 1000-mile VHF-UHF, including channel 2. Although there have been a number of Es days reported, the openings have not been spectacular. MUF's have been low, none into the FM band since 31 March, though Les Prus observes that some openings have been quite stable and interference-free. Es dates since late March: Mar 31, Apr 2, 9, 10, 14, 15, 20, 29, 30, May 1, 3, 4, 5, 7, 8, 9.

Frank E. Aden, Jr., 915 South Curtis, Space 71, Boise, Idaho 83705 (Jan-Feb-Mar) (MST)

Receiver: Arvin 9-inch. Antenna: 17-el VHF TV-FM with rotor. All tropo reports.

Jan 18 Tr 9:27 PM KBGL-TV 10 Pocatello ID fading in and out, little sound. I was surprised to get KBGL. A tropo opening was in progress as Idaho Falls was booming in—but no sign of KID-TV 3 or KIFI-TV 8; I just cannot seem to get them.

Back to Nov 7 1971 Tr KHQ-TV 6 Spokane WA 5:15 PM, audio reception on Sony FM tuner. I've never been able to get the video on TV, just audio.

KIVR 13 La Grande OR, 10:40 PM, very good (date, Frank? dps). I have been seeing them quite often, never strong. This could possibly be ground wave and not tropo, as it is usually fairly consistent.

I'm hoping for E skip soon. Anyone wanting Utah-Idaho TV Guide, send me yours and I'll mail you mine. 73's.

Bob Cooper, Jr., 4670 Willard Drive, Oklahoma City, Oklahoma 73105 (8-13 Apr only) (CST)

This is a quick report since I am not yet re-established with an antenna system at the new home. You can't imagine how long it takes to get people to dig holes, pour concrete and build a lousy 450 feet or so of total tower height. Slow, slow, slow. Perhaps by 1 June we will be operational again.

Between 'moving' at the close of the last report and actually getting the old towers down, I snuck back to the old house a few hours between the 8th and 13th of April and added a little DXing. All tropo.

Apr 10 Tr 0810 tune-in, KVUE 24 KHFI-42 Austin TX (345 mi), WAFT 16 Jackson MS (473 mi) in.

Apr 11 Tr 0730 t/in, KMID-2 KOSA-7 Midland-Odessa TX (350); 2010 t/in, WAFT 16 MS (473), KVRL 26 Houston TX (420), WWOM-26 New Orleans LA (575), WRBT 33 Baton Rouge LA (504); 2110 KHNE-29 Hastings NE (350), KLNI-15 New Iberia LA (510), WMAU 17 Bude MS (545), KVUE 24 KHFI-42 Austin (345), KHOU-11 KTRK 13 Houston (420), many others.

Apr 12 Tr 0515 KOLN-10 Lincoln NE (370), WAPI-13 WERC-6 Birmingham AL (623), WAFF-9 Baton Rouge LA (504), KLFY-10 Lafayette LA (510), KNOE-8 Monroe LA (375), WJTV 12 Jackson MS (473), WMT-2 Cedar Rapids IA (548, tropo), KCEN-6 Temple TX (370); 0650 WYEA-38 Columbus GA (745), WMAW 14 Meridian MS (550), KHNE-29 NE (350), WMAA 29 Jackson MS (473), WIGS 20 Springfield IL (523), WTVQ 17 Rockford IL (605), KPPT-19 Kansas City MO, WJRH-19 Peoria IL (561), KDNL-30 St. Louis MO (458). At 2055-2105 check, WMAA-29 MS (473) and KLNI-15 LA (510) in and out. At 2106, the switch was pulled at 2609 Chaucer for all time. 73.

Fred McCormack, Des Lacs, North Dakota 58733

(Jan - 7 May) (CST; GDT 30 Apr +)
J22 AEs 2244 CFGL2-2 Kearns, Ontario 4325R1000 M₂ Es 0855 WJBK- 2 Detroit MI 5445R 980
A14 Es 2100 KETS 2 Little Rock AR 4445R1040 0926 WGR - 2 Buffalo NY 4434R1155
30 Tr 1900 KDSB 16 Aberdeen SD 3025N 230 0959 WTWO 2 Terre Haute IN 4232R 925
2010 KOAI 2 Flagstaff AZ 5544R1030

There is finally a little DX to report with the return of Es. The Es logging on 1-22 was auroral-induced. The main news here is that I now have a UHF station on the air within tropo scatter range of Des Lacs, a PBS station at Aberdeen, SD, on ch. 16. It is in very weakly most of the time. I have yet to see it very good, but it often builds to readable levels. It should provide a check on my equipment which I did not previously have with no UHF within 460 miles. 73 and good DX.

Dave Pomeroy, 8720 W. 80th Street, Overland Park, Kansas 66204 (12 Apr - 4 May) (CST)
 12 Tr 0700 KGIN-11 Grand Island NE 4544R (12)Tr 2230 WAND-17 Decatur IL 2231R310
 0800 KAYS- 7 Hays KS 2222R (over KCBJ 17 Columbia)
 0800 KUHI-16 Joplin MO 5555R133 2300 WEEK-25 Peoria IL 1215R300
 2000 KRNT- 8 Des Moines IA 324R200 2300 WMED 31 Peoria IL 2225R300
 2030 KCBJ 17 Columbia MO 4555R120 13 Tr 0700 KGTO-36 Fayetteville AR 2215R
 (CCI on KCBJ's on-air net pickup) 0830 WFLD-32 Chicago IL 4545R425
 2130 KIIN-12 Iowa City IA 4543R (TP w/ call)
 2200 KVFD-21 Fort Dodge IA 4535R250 0845 WXXW 20 Chicago IL 3435N425
 2205 KWWL- 7 Waterloo IA 3323R275 (TP w/ call)
 2215 KDIN-11 Des Moines IA 3333R200 0850 WCIU-26 Chicago IL 3345R425
 2230 WRAU 19 Peoria IL 2325R300 Present log total: 196.

Not much to report outside of the tropo opening on the 12th and 13th. Would like to see a few more openings like that. Was delighted to get a letter from Glenn Hauser reporting April-12 reception of KCPT-19. That doesn't happen very often; in fact, with our low power, I consider anything over 30 miles a DX report. Best of DX.

Les Prus, 1615 Pierre, Manhattan, Kansas 66502 (Jan - 7 May) (CST; CDT 30 Apr +)
 J3 MS 0451 KYW - 3 Philadelphia PA (Id) All Tr 2155 KHAS- 5 Hastings NE 5
 19 Tr 0545 CKLW-9 Windsor, Ontario 2345T 2155 KLINE- 3 Lexington NE 2 N
 (see comments below) 2200 KHPL- 4 Superior NE 5
 0602 KMCK- 4 St. Louis MO 2 2200 KMNE- 7 Bassett NE 2 N
 30 MS 0600 unId 2 ("RFD-2" pgm slide) 2200 KPNE 9 North Platte NE 2 N
 F29 Tr 0045 KHOL-13 Kearney NE (s/off) 3 N (all K*NE's relaying KUON-12).
 M11 Tr 0645 KWTW 9 OklahomaCity OK 4 2232 KHCL- 8 Albion NE 3
 0645 WKY - 4 OklahomaCity OK 4 26 MS 0658 WAVE- 3 Louisville KY
 (both w/ TPs and s/on) ("Today in Louisville" slide)

DX had been very poor in 1972 through April (I missed the March Es) with only two fair tropo openings on Jan 19 and Apr 11. On Jan 19 I apparently stumbled onto a duct, as my unId-9 with Wimbledon Tennis film at 0545 is at least 500 miles away or further. In the last few months I've been eliminating all nearer stations (none sign on so early) and now suspect CKLW-9 Windsor. I missed the Id at 0559 when local KMBC-9 came on a minute early with their IHTP. If not Ontario, then Ohio and New York are possible. On Apr 11 tropo was toward the northwest into Nebraska to a maximum of about 200 miles (Marv Garber got as far west as Denver from Lincoln NE that night).

Then, in May, Es opened up, with three openings seen so far.

M3 Es, 1840 tune-in to 1950 fade. (3)Es 1900 WBTW? 3 NC (CBS C. Burnett) T
 1840 WTAZ- 3 Norfolk VA 1923 WCBD- 2 Charleston SC
 (variety pgm w/ Roy Rogers) (WD Hotline panel/call-in, 1933 Id)
 1846 WPMY?-2 NC (Es above, not synch) T 1934 WSAV?-3 GA (NE Special "The Price")
 1850 WSJK?-2 TN (nutrition pgm) T 1936 WSB?- 2 GA (NBC as above)
 1854 WUND- 2 Columbia NC 1939 WEAR?-3 FL (ABC Basketball)
 1856 WWAY- 3 Wilmington NC 1948 WRBL?-3 GA (CBS C. Burnett) T
 (ads, start ArthurSmithShow-C&Wm) Distances: 1000 to 1150 miles.

This was a very stable, single-cloud opening with very little co-channel interference. Reception snowfree at times, duration averaging 10-15 minutes per station.

4 Es, 1055 fade-in to 1250 fade-out. (4)Es 1155 WGR - 2 Buffalo NY (localnx, Id 1200)
 1055 WKTV 2 Utica NY (NBC pgms) N 1220 WGAX- 3 Burlington VT
 (after 1100, long fade until 1129, (end "Lucille Rivers" sewing, Id
 after 1130, fade, back in 1156 w/ (photoed phinally aphter 2yrs), CBS)
 local news, "Hazel" at 1200) 1241 CBFT 2 Montreal PQ (FF pgm, ads)
 1150 WSYR- 3 Syracuse NY (1200movie) Distances: 950 to 1250 miles.

Every TV-DXer experiences snowfree reception for 20 or 30 minutes or more, but at Id time, all that is seen is snow or CCI. This opening—a rare event which will go down in DX history—was the exception to the rule. Fade-ins were clustered around the hour and half-hour! Duration averaged 10-15 minutes per station, snowfree at times but with deep fades between stations.

7 Es, 2030 tune-in to 2055 fade.
 MUF did not reach ch. 3.

(7)Es 2030 KHEN- 2 Spokane WA
 (local movie, Bing Crosby; ads, 2045 Id)

The May VUD really looks terrific. Regarding Bob Cooper's super antenna system described last month (20-ft UHF dish!!), I hope he makes a special effort to shield against signal leakage. I'd hate to have all my DX ruined by interference from his setup, hi! 73, and good DX.

Pat Dyer, 327 Solar Drive, San Antonio, Texas 78227 (10 Apr - 9 May) (CST)

Receiver: 1971 Penncrest 9-inch B&W (* 1968 RCA color GJ721W).

Antenna: 6-el. hi-low VHF Yagi and 8-bay UHF bowtie at 12 feet fix-aimed NE (* 15-el. hi-low VHF Yagi at 15 feet, aimed SE).

12 Tr	0053 KFDL-6	Beaumont TX	Miles: 275	18 Tr	0030 KFDL-6	Beaumont TX	275
	0055 KNCE-8	Monroe LA	450		0035 WBAP-6	5 Ft. Worth TX	240
	0058 KLFY-10	Lafayette LA	405	20 Es	1930 unId	3	
	0100 WFAA-8	Dallas TX	250	Tr	2300 KNCE-8	Monroe LA	450
	0125 KDFW-4	Dallas TX	250	21 Tr	0043 WFAA-8	Dallas TX	250
	1129 KERA-13	Dallas TX	250		0100 KTVT 11	Ft. Worth TX	240
	2059 KTVT 11	Ft. Worth TX	240		0115 KDFW-4	Dallas TX	250
13 Tr	0010*WAFB-9	Baton Rouge LA	450	30 Es	0800 WLW-D	2 Dayton OH	1080
	0020 KFDL-6	Beaumont TX	275		0800 WAVE-3	Louisville KY	960
	0022 WFAA-8	Dallas TX	250		0800 unId	4	
	0032 KATV 7	Little Rock AR	510	M5 Es	1035-1045:	unIds chs. 2-3	
	0042 KDFW-4	Dallas TX	250	8 Es	1745 WISC-3	Madison WI	1075
14 Tr	0025 KFDL-6	Beaumont TX	275		1700-1900:	unIds chs. 2-3-4	
	2150 KVRL 26	Houston TX	185	9 Es	1200 unId	3	
15 Tr	0215 WFAA-8	Dallas TX	250				

For the last two weeks here Es was keeping a very slow pace on the TV. Evening of May 8 might have been what you could really call a season opener, the most since March 7. Now if it can keep it up....

April produced 50-MHz F2 openings, but not to anyone's shock, the MUF's didn't come close to Ch. 2.

April 20 Es in evening to south gave the western states link-up to TE (transequatorial scatter) to South America on 50 MHz providing a good chance for the TV in that direction as well.

Now for somewhat of an odd request. I'd appreciate hearing from members with details of TV Es reception to or from the San Francisco area between May 1955 and July 1957. Similar information for the San Antonio region from July 1957 to August 1959 is desired. During those periods I did some trop-type TV-DXing but somehow managed to avoid ever seeing any Es until 1959, though at both locations there were not any locals on Ch. 2-3. 73, WA5IYX/5.

Glenn Hauser, Box 62, Von Ormy, Texas 78073 (8 Apr - 8 May) (CST, always!)

A rather ordinary month here; some good tropo, but not measuring up to earlier ones. I did manage to pull in several very much wanted stations in Oklahoma, Texas, Florida, Tamaulipas, Georgia, Alabama and Kentucky, adding a couple more UHF states in the process. Getting WESH-2 by tropo (1045 mi) was rather unusual. A few minor Es openings brought nothing unusual and never reached FM. I am now working at KENS-5 afternoons and evenings, so this may cut down on my Es DX this summer.

A9 Es	1001 WBAY-2	Green Bay WI	1195	12 Tr	0009 XHD - 4	Tampico Tamps ?	T
	1040 WMT - 2	Cedar Rapids IA	970		0042 KNCE-8	Monroe LA	435
		(home seek show; 1059 Id)				(0053 KNOE news)	
	1059 KGLO-3	Mason City IA (Id)	1010		0042 WAFB-9	Baton Rouge LA	455
10 Tr	2225 KMXN-34	Lubbock TX	345		0048 KBMT 12	Beaumont TX	295
		(2227 s/off until 6 PM tomorrow)			0054 WJTV 12	Jackson MS (s/off)	530
	2226 KSEL-28	Lubbock TX	345		0058 KLFY-10	Lafayette LA (s/off)	390
	2230 KOSA-7	Odessa TX	285		0103 KFDL-6	Beaumont TX (s/off)	290
	2234 KMOM-9	Monahans TX	305		0106 WDSU-6	New Orleans LA (s/off)	515
11 Tr	0007 KMID-2	Midland TX	290		0603 KWTW 9	Oklahoma City OK	440
	0715 KVII 7	Amarillo TX	290			(wedge TP)	
		(Electric Co, 0723 end, Id)			0610 K70FK	Mason TX (0615 K5ATTP)	100
	2031 KWTW 9	Oklahoma City OK ?	T		0757 KTSB-27	Topeka KS	690
	2039 KOED 11	Tulsa OK	N500			(0859 Dial for Dollars, Id; 0940 KMTC takes over)	
	2304 XHAH-8	Las Lajas Ver	apx690		0801 KERA-13	Dallas TX (TP)	250
		(XHTV-4 promo, "24 Horas")			0852 KOKH-25	Oklahoma City OK	N440
	2306 XET - 6	Monterrey NL	265			(ITV; 0929 Id, PSA, US History; 0944 Id, into CB&mx; UHF state #10)	
		(2315 Id, pgm summ, s/off)			0939 KQPT 19	Kansas City MO	N715
	2318 KPLC-7	Lake Charles LA	330			(0959 Id)	
	2334 X ?-13	(@kHz KTRK, seems south)					
	2340 XHAB-7	Matamoros Tamps	245				

(12Tr) 0940	KMTC 27 Springfield MO	650	(13Tr) 0041	WSOC-9 Charlotte NC ?	T
	(strong 10 kHz CCI w/KTSE;		0054	WVUE 8 New Orleans LA	515
	0941 cartoons; 1059 Id)			(0620 custom "8" TP)	
0948	KDTV 39 Dallas TX (stox)	250	0103	WJTV 12 Jackson MS	530
0951	KTUL-8 Tulsa OK	495	0105	WBRG-6 Birmingham AL	745
	(countrygospelmkoffler, KTULaddr)			(AL-rx; 0114 editorial; 0115	
0953	KSWO-7 Lawton OK	325		same minister tape as on ch 42	
	(KSWO mail offer)			earlier; 0119 s/off; 0425 s/on)	
1001	KUHI-16 Joplin MO	585	0121	KTBS-3 Shreveport LA	360
	(1015 KS, MO, OK DX alm. gone)			(IHTP NE)	
1033	KBFI 33 Dallas TX	260	0137	KFTG-2 Houston TX	180
	(RTMA TP e/on)			(back on w/TT; wx radar screen)	
2227	WMAH-19 Biloxi MS	575	0501	WESH-2 Daytona Beach FL (n)045	
	(2304 joint s/off; 2308 ownwedge TP;			(s/en; 0559 Id)	
	2314 3-way CCI; 2342 still TP but		0505	WAPI-13 Birmingham AL	795
	hvy CCI; 0714 back on w/TP & TT)			(Id slide w/rays; 0511 same	
2227	WAPT 16 Jackson MS	530		minister as on 6 & 42 at s/off)	
2227	WKAB-32 Montgomery AL	760	0506	WTVE-13 Tampa FL	N990
	(2325 rx by YL after game; poor video)			(EST TC, ment. St. Petersburg;	
2230	WMAU 17 Bude MS (2304 s/off)	485		0530 Id; Breakfast Beat continues)	
2232	WCJE 20 Gainesville FL	N98C	0507	WFTV 9 Orlando FL	1065
	(east, 0 CCI w/WCOV; NBC; direc-			(Daily Word, then-mx pgm;	
	tion rules out WBBH; 0611 again			0517-promo "Eyewitness"; foggy)	
	0 CCI to WCOV; 0642 NBC)		0531	WFLA-8 Tampa FL	N995
2233	WBET 33 Baton Rouge LA	455		(Guest show)	
2241	WCOV-20 Montgomery AL	760	0537	WJCT 7 Jacksonville FL ?	T
	(2248 local ads; 0611 Id slide		0541	WJHG-7 Panama City FL	795
	w/CCI; 0615 still, silence; 0626 lclrx)			(CB, CL LR)	
2241	WMAW 14 Meridian MS	600	0543	WJKS-17 Jacksonville FL	1025
	(2304 s/off)			(east, black; 0546 brief s/on)	
2251	WTCG 17 Atlanta GA	890	0556	WYEA-38 Columbus GA	840
	(2323 CBS movie; 0550 CCI to			(bee feature; 0630 Id)	
	WJKS; 0553 nx; 0557 Id)		0606	WNL - 4 New Orleans LA (s/on)	515
2251	WMAA 29 Jackson MS	530	0612	WCWB-41 Macon GA	N920
2313	WYEA-38 Columbus GA (0630 Id)	840		(NBC 7/ch 38, east)	
2319	WDHN 18 Dothan AL ?	T	0614	WAAY-31 Huntsville AL	795
2327	KAMU 15+ Bryan TX ?	T		(Three Stooges)	
2336	WBMG 42 Birmingham AL	755	0618	WHNT-19 Huntsville AL	795
	(0014 Id w/PEPSI logot, into nx		0628	WHMA-40 Anniston AL	810
	w/studio; 0022 WAFI 3545; 0031 Id			(full CB ENE; 0630 Rise & Shine	
	twice w/ch 78 xltre equally billed; s/			show; no s/on caught; GST TCs)	
	off, no SSB; 0637 again 42/78 slide)		0639	WJCL-22 Savannah GA	1040
2343	WGNO-26 New Orleans LA	515		(1/2 CB E; 0644 other stanzas	
	(western)			SSB; 0645 s/on; 0651 huck hound)	
2348	WDXR-29 Paducah KY	N780	0647	WACS-25 Dawson GA (RCA TP)	N855
	(2357 Id, Bedroom Theatre; 0028		0651	WJSF-28 Warm Springs GA	855
	good; 0035 in custom SSB by live			(MIHTP, TT; 0659 s/on, TV High School)	
	studioband, then nicetape-animated		2255	WMAU 17 Bude MS	485
	Id, CB & TT, off; UHF state #11)		2255	WMAH 19 Biloxi MS	575
2359	KLNI-15 New Iberia LA	405	2300	KLNI-15 New Iberia LA	405
	(SSB mx, but "Good Evening"		2301	WAPT 16 Jackson MS	530
	Id slide video)		2302	WJCL-22 Savannah GA	3545 1040
13 Tr 0005	KHFI-42 Austin TX	80		(2318 WAPI; 2331 Id; 0003 Id)	
	(Vietnam War SSB!)		2303	WMAA-29 Jackson MS (s/off)	530
0008	WHMA-40 Anniston AL	810	2304	WBET 33 Baton Rouge LA	455
	(end CBS movie //ch 42)		2324	WYEA-38 Columbus GA	840
0034	WDSU-6 New Orleans LA	515	2332	WCPT-33 Tuscaloosa AL ?	T
	(Star Trek)		14 Tr 0009	WTCG 17 Atlanta GA	890
0039	WTVM 9 Columbus GA	4555 845		(CBS movie; 2 and 70 xltres)	
	(Id; 0049 break for kid hymn, taped		0015	WBMG 42 Birmingham AL	795
	on studio grounds, 0052 Id, into movie.			(CBS movie; 0606 s/on)	
	0100 super id; 0126 news slide;		0032	WNL - 4 New Orleans LA	515
	0136 wx, s/off, SSB, 0138 off)		0037	WVUE 8 New Orleans LA	5554 515

- (14)(Tr) (0037) (address; powerful; color; even) (20)(Tr) (2246) Tampico; 2300 Co-Id; film/Corona
 0051 KALB- 5 Alexandria LA (TP, TT) 385
 0100 WDSU- 6 New Orleans LA (6ff) 515
 0518 WLOX-12 Biloxi MS 575
 (Id slide; 0522 better;
 0600 audio Id o/TRK)
- 0535 WALB-10 Albany GA ? T
 0542 WLCY-10 Largo FL N965
 (circular TP; 0547 s/on)
- 0552 WINK-11+Fort Myers FL ? T
 0607 WBRZ 2 Baton Rouge LA (CB, CL) 455 21 Tr 0037
 0610 WTVM 9 Columbus GA ? T
 2353 WAPT 16 Jackson MS 530 23 Tr 0835
 2354 WRBT 33 Baton Rouge LA 455 0837
 15 Tr 0027 XHAH- 8 Las Lajas Ver apx690 0848
 0027 XHAB- 7 Matamoros Tamps 245 0850
 Es 1430 unIds (Various stns, easterly) 0854
 1502 KNXT 2 Los Angeles CA 1185 29 Es 0854
 (Id, Children's Film Festival) Tr 2128
 19 Tr 2225 WRBT 33 Baton Rouge LA 455 2138
 (Hitchcock) 30 Es 0720
 2230 WAPT 16 Jackson MS 530 (preachers; 0728 TV2-Cubs
 2237 KGFT- 4 Harlingen TX 220 promo, ment. Dayton; 0759 Id)
 (video o/WDAI) 0732
 2237 KRGV- 5 Wesslaco TX 220 (0801 Id, Deputy Dawg)
 (video o/KENS) 0735
 2237 XHAB- 7 Matamoros Tamps 245 0829
 (W2pgm; 2300 Mexico/Chile satel- unId 4
 lite report for presidential visit w/Zabludovsky in Chile) M1 Es 1130
 2326 XHAH- 8 Las Lajas Ver apx690 3 Es 1127
 20 Tr 0012 WAFB- 9 Baton Rouge LA 455 2 Tr 0528
 2230 XHPN- 9 Tampico Tamps 490 (s/on, local choir SSB, 0530 "RFD 3")
 (Hermanos Coraje, o/KLRN; 2245 in 0530
 news; 2312/W2net(8)w/Chile report; 0540
 2317 separate; 2330 weaker; 2339 end KABC- 9 Abilene TX 220
 En Punto; Canal 9 de Tampico (w/co-KACB Id slide)
 s/off w/Moog mx, 2341 off) 0548
 2235 XHUT-13 Ciudad Victoria Tamps? T (KAUZ- 6 Wichita Falls TX 315
 (15kHz CGI to TRK, 2243 Spaudio) (RTMA TP, tiny call at top;
 0559 Id w/alarm clock)
 2246 XHGO- 7 Tampico Tamps N490 0649
 (Ironside dubbed; 2259 ad El Solde (IHTP, TT; 0715 Id slide)
 Until the next, 73 de Glenn.

Glenn Hauser forwards this note of interest about the mid-April tropo as observed in Mexico. Gregg Calkin, visiting in Monterrey, NL (CST), caught some fine trans-frontier tropo, using only "bunny ears" in his hotel room, on 11 April (with distances added by Glenn):

- (all day) KGNS- 8 Laredo TX (audio & faint picture; might be OK with outside aerial) (140 mi)
 (all day) WFAA- 8 Dallas TX (o/u KGNS; ABC affiliate indicated by audio; referred to its "Dallas Newsroom") (520 mi)
 0700- XET - 6 Monterrey NL (s/on)
 0844-0930 KTXS-12 Sweetwater TX (Surprised!! Id as "K-TEXAS Television" both on slide (photographed) and audio. Good audio/video still at 0930 when I had to go out.) (460 mi)
 1145- XHAW-12 Monterrey NL (s/on) Glenn adds that he's trying to
 1230- XEPB- 3 Monterrey NL (s/on) persuade Gregg to become an active
 1430- XHX -10 Monterrey NL (s/on) TVDXer at home in Mexico City!

12 June WDX deadline:
 Dennis Smith
 1200 W. Sacramento Ave., #15
 Chico, California 95926

12 July WDX deadline:
 Dennis Smith
 450 Poplar Ave.
 Wasco, California 93280

Best of DX to all

Dennis

CENTRAL TV DX

Roger H. Brown
1617 Linden St.
E. Lansing, Mi. 48823

June 1972

For TV-DXers in Wi, Il, In, Mi and Oh. Next deadline for material: June 15

Spring finally sprung in the Great Lakes area, bringing a hint of more mail with plenty of DX. I would imagine that next month's column will be a dandy, so please get that very welcome report to E. Lansing as close to deadline as possible!

Hasn't been much to watch here until recently. We chilly Northern types would collectively like to invite you Southern fried fellows to spend a bone chattering, DX empty winter here. You might learn to ski! You sure won't learn to DX.

The reason for the lack of tropo (and the cold weather) was that the all-powerful jet stream moved much further South this winter than usual. It's taking longer to head North. We had...until mid-May...only "cold-cell" high pressure systems tracking out of Canada through the Midwest and East. The huge high that hit the Illinois, Wisconsin, Michigan, Indiana area on May 17 (and looks as if it will stagnate for a couple of days) is the first real "warm" high to pass our way. A warm high is "tall"...it extends into the upper atmosphere and "holds" warmer air. In a cold, "winter" high, heat dissipates rapidly...and inversions...the tropo producers...are rare.

The mail this month reflects much increased Es activity, and there is a look again at the sparse DX on the winter now (thankfully) past....

Frank Wheeler, 6589 Wattsburg Rd., Erie, Pa. 16509 EST

12-14 Es 1705 KCKT-2 Great Bend, Kn. 4433R (1015)	12-14 Es 1830 KTVC-6 Dodge City, Kn 3424R (1157)
1703 KARD-3 Wichita, Kn. 4433R (953)	1825 KFDX-3 Witchita Falls, Tx 4434R (1114)
1730 KOAA-5 Pueblo, Co. 4434R (1308)	1930 KIII-3 Corpus Christi, Tx 3322R (1374)
1735 KTEW-2 Tulsa, Ok 4433R (943)	4-14 Es 1000 KWGN-2 Denver 5545R (1292) plus Unid 3.
1806 KGNC-4 Amarillo, Tx 4434R (1251)	

I sent a report earlier but it didn't make the VUD. (Right Frank. Your editor goofed. You send to the Eastern editor now. I failed to forward your report. Congratulations on your first Grandchild. RB)

Frank Hostetler, RR#2 Box 151, Dillonvale, Oh. 43917 EST/EDT

3-3 Es 1955 KFDX-3 Witchita Falls, Tx 1957 Unid-4 w/Dragnet	5-10 Es 1336 WCIX-6 Miami, Fl 1338 WTHS-2 Miami, Fl 1400 WSAV-3 Savannah, Ga.
3-8 Es KFDX-3 Witchita Falls, Tx	5-11 Es 1203 Unid-3 SW, possible Texas 1215 KLNE-3 Lexington, Ne. 1230 KTVS-3 Sterling, Co. 1300 KOTA-3 Rapid City, SD.
5-3 Es 2105 WBRZ-2 Baton Rouge, La. and Unid 3	(Thanks for 1st report Frank. Your 250 total looks great! Hope to hear more)
5-9 Es 0907 Unid on 2, Wedge before DKDA on	
5-10 Es 1323 Unid 2 w/ SS and EE lessons. Tent. Cuba 1325 TP, on 3, station relaying CMQ-6 Havana. (CMKJ-3 Holguin?)	

John Parillo, 400 S. Market St., Girard, Oh. 44420 EST/EDT

12-14 Es 1659 KWGN-2 Denver, Co. (1263)	12-14 Es 1729 tent. KOA-4 Denver
1659 KLNE-3 Lexington, Ne. (982)	1759 KENS-5 San Antonio, Tx
1700 KDUH-4 Hay Springs, Ne. (1108)	1819 tent. KOCO-5 Okla City, Ok.
1706 tent. KCKT-2 Great Bend, Kn.	1829 KGNC-4 Amarillo, Tx.
1724 tent. KARD-3 Witchita, Kn.	1900 tent. WKY-4 Okla City, Ok.

Parillo (cont.)

12-25 Tr 1007 tent. WNDU-16 So. Bend, In. (300) 5-6 MS 0639 WCVB-5 Boston, Ma. (503)
 2-27 Tr 1000 WLWI-13 Indianapolis, In. (300) time EDT on this one.
 4-18 Tr 0127 CKVR-3 Barrie, On. (240)

WCVB a complete surprise to me. It's new here, I never saw the old WHDH-5. (nice catch too John, and nice to hear from you again. Send me a list of last year's new ones with your next report! RB)

John Sally, 29926 Truman Ave., Wickliffe, Oh. 44092 EST/EDT

3-8 Es 2000 KJAC-4 Port Arthur, Tx. 5-10 Es 2200 WDIQ-2 Dozier, Al
 2030 KGNC-4 Amarillo, Tx. 5-14 Es 1500 WMAB-2 State College, Ms.
 also Unids on 2 and 6 (CBS) plus Unid NBC on 2 and ABC on 4
 5-7 Es 2035 Unid 2 in 'til 2055 2055 WWL-4 New Orleans, La.
 5-8 Es 1930 KCKT-2 Great Bend, Kn. 2100 WDIQ-2 Dozier, Al. and Unids
 5-10 Es 1930 KMID-2 Midland, Tx. through 6
 KPRC-2 Houston, Tx.

Have just joined WTFDA...I think it's great. I'm 15 years old. I use a 1969 Philco and a 1965 Motorola, an 8 element VHF and a "V" shaped UHF antenna. Have been DXing for two years but just got "serious". Totals now at 93 and climbing. Locals here are from Cleveland. Best catch is KTWO-2 Casper. RB

David Kable, 29247 Waldensa, Wickliffe, Oh. 44092

I'm a new member as of the end of April...have been seriously DXing since May 15, 1971 when my 7 foot dish and 19 element VHF ant. went up. Have received 116 stations since then with 68 veries. Saw the ES on 3-8, with WKY-4, KGNC-4 and new KJAC-4. Would like to hear from other NE Ohio DXers! (Thanks to John and Dave for reports...with all the Es in lately, their reports should be long next time. Make sure you send your Unids to the proper column fellows. RB)

Ray Farantino, 8134 S. Francisco, Chicago, IL. 60652 CST

3-29 Tr 1900 WCEE-23 Freeport, Il (115) 3-29 Tr 1955 WTV-18 Milwaukee, Wi (93)
 1925 WTVO-17 Rockford, Il. (85) 2000 WDMJ-4 Milwaukee, WISN-12
 1935 WREX-13 Rockford, Il. (85) Milwaukee.
 4-3 Tr 1525 WCAE-50 St. John, In.

Equipment is a 7 foot dish at 40 feet, and a Lafayette 25 element VHF antenna. Am using an older model Silvertone. (Your loggings should really improve now with that dish! RB)

Bill Draeb, Ellie St. RR#2, Kewaunee, Wi. 54216 CST, CDT

4-17 Tr 0545 WTHI-10 Terre Haute, In., WISH 8 4-27 Tr 0445 WJW-8 Cleveland, WBNS-10
 Indianapolis, In 0525 WANE-15, WKJG-33 Ft. Wayne
 1715 WCAE-50 St. John, In., W72AN Gary, IN 0600 WLIO-35 Lima
 4-20 Tr 0500 KCRG-9 Cedar Rapids, Ia 0615 WPTA-21 Ft. Wayne, In.
 1910 WCAE-50. W72AN. 4-28 Tr 0430 WJW-8 Cleveland
 4-22 Tr 0640 KHQA-7 Hannible, Mo. 0555 WCPO-9, WKRC-12 Cincinnati
 MS 0646 KSWO-7 Lawton, Ok. (4 snow free 4-29 Tr 0440 WCPO-9; 0520 WLWI-13 Indy,
 bursts...at 925 miles!) tent. WHIO-7 Dayton
 4-25 Tr 0500 WBNS-10, WTHI-10, WHAS-11 Louisville, 0538 WBNS-10; 0618 KWWL-7 Waterloo
 WJW-8 Cleveland, WISH-8, WLWI-13 4-30 MS 0637 RETMA TP on 7, ant. South
 1710 WCAE-50 St. John.

Draeb (cont.)

- 4-30 Tr 0620 WHIO-7 Dayton, Oh, WISH-8 Indianapolis, WCPO-9, WKRC-12 Cincinnati, WBNS-10 Columbus
0650 KNWL-7 Waterloo, Ia.
- 5-3 Tr 0614 WHQA-7 Hannible, Mo. (CDT)
0615 KNWL-7 Waterloo, Ia.
Es 1940 KATC-3 Lafayette, La. and tent.
KPRC-2 and KJAC-4
- 5-4 Tr 0612 KNWL-7; 0617 KCRG-9
- 5-6 Tr 0643 KHQA-7; 0630 KNWL-7
- 5-7 MS 0613 RETMA-TP on 7, ant. SW also
0633 B and W TP on 8, ant. S
Es 0937 Unid-4, CB-TP, ant. NW, minus
- 5-8 Es 1910 Unid 2 (minus) and 3 (0) South
- 5-9 Tr 0535 WJW-8, WISH-8, WBNS-10, tent.
WHIO-7

Log now stands at 470. Hope we have more next month, especially hi-band MS! (Bill, you always find new stations somewhere, w/ a newly tried propagation! RB)

Roger H. Brown, 1617 Linden, E. Lansing, Mi. 48823 EST

- 4-27 Tr 1700 tent. KDNL-30 St. Louis and WLKY-32 Louisville in and out
- 4-28 Tr 0830 WOET-16 Dayton, Oh. (ex-WKTR-16, now ETV)
- 4-30 Tr 0130 CKCO-13 Kitchener, CHCH-11 Hamilton, CKCW Wingham
- 5-3 Es 1959 tent. WMAB-2 Mississippi
- 5-8 Es 2200 KPRC-2 Houston, Tx
- 5-9 Es 2000 Unid-4 tent. KJAC-4
- 5-10 Es 2110-2130 weak Es 2-4, no IDs
- 5-11 Es 1000-Unid-2 ETV West, tent. KUSD-2 Unid 3 and 4
1030 KWGN-2 Denver, Co. Es in and out all day.
2300 KTWO-2 Casper, Wy.
- 5-12 Tr UHF to 225 at 0700. Strong low-level inversions. Nothing by ducting.
Es 2140 SW on 2 several Unids
2200 KOOK-2 Billings, Mt.
- 5-14 Es 1130-1230 Unids to ch 5. Probably into FM. No time to DX.

Apparently, this will be a fair year for Es. Skip has been noted in East Lansing on 5-3, 8, 9, 10, 11, 12, 14, 17 and 18. The MUF has been usually only channel 4, with most loggings on 2 and 3. Many times I'm too busy doing something else, and can't DX when Es are in, so others should be able to fill in the pattern more ably. I'm using a 5 inch Sony (TV-510U) with its single bunny ear at the office, and attempt to log Es all day. My co-workers are now assured of my insanity.

I have some space this month...so will note a couple of items. First, congratulations to Gary Olson and Morrie Goldman (and whoever else is involved) for taking the initiative to make the move to offset. The VUD will look better and better with those two editing and creating! Please send pictures!

Several new reporters asked help in IDing DX, especially Es. There is a column for that and that's where it should go. I won't include it. Also...new and old DXers...please TRY to keep up with call letter changes, etc. Get a new list of stations! Hq has lists!

Station news from the Central area: don't look for WUHQ-41 for a while...as a tropo indicator. They are much harder to find. Ice and lightning put them off the air for a while, and they've returned with their antennas side mounted down their tower, favoring the SE. Until their problems, they caused imaging on my BTX11a and CMA-U through about 30 degrees rotation. They are now snow free only when I look directly at them. By the way, they no longer program news at 2300 and are usually off by 0030 EST.

In Chicago (much to the consternation of M. Goldman and G. Olson), WTTW-11 has an early s/on (and t/on) and late s/off...like 0700 and 2400 at least! WFLD-32 is now signing on after noon. WTVV-18 Milwaukee also has a late s/on. Hereabouts, look for 4 megawatts and a more Southerly location for WKNX-25 Saginaw by this fall. Also, a change to WEYI-25. WGTU-29 is ABC but doesn't use Cavett. WSJV-28 also is nix on Cavett. Looks like WPGH-53 is off for good. Don't know about WJJY-14. WGVG-35 Grand Rapids and WKAR-23 E. Lansing might be on this fall. 73s, Good DX. Rog.

EASTERN TVDX

Dave Pomeroy
KCPT-Channel 19
2100 Stark
Kansas City, Mo. 64126

Congratulations to the WTFDA HQ staff for the appearance of last month's VUD. It's a lot easier for me to type and I really think it improves the magazine tremendously. Let them know what you think. Elsewhere in this issue I'm sure you'll find more information about the WTFDA Convention. As plans now stand, I'll be there and I hope to see several of you eastern DXer's there too. More skip reported this month from Louisiana to Ontario with some tropo and Ms and Au thrown in too, so now to the reports.

Robert B. Frantz 4380 N.W. 42nd Street Ft. Lauderdale, Florida

"This is my first report form sent in. DX'ing appears to be mostly from a northern direction. I don't have my AR-33 rotor up yet. JUP-4 antenna pointed northwest." (Nice to hear from you. Please send reports directly to me in care of KCPT. Thanks dp)

3-30 Tr 0900 WKLT-40 Sarasota, FL (160) 3-30 Tr 1800 WTVX-34 Ft. Pierce (90)
0905 WTOG-44 St. Pete, FL (180) 2300 WJKS-17 Jacksonville (290)
0910 WBBH-20 Ft. Myers, FL (115) (Total now 9 UHF stations)

Mark L. Lewis 224 Monitron St. Downsview, Ontario

4-16 Tr 0943 WKBS-48 Philadelphia (345) 4-30 Tr 2100 WNPE-16 Watertown, NY
-29 Philadelphia "also in Erie U's with fair to excellent
WPHL-17 Philadelphia signals. Now if I could only get past
0945 WNEP-16 Scranton, PA (250) Detroit on UHF! The April 16 duct to
WDAU-22 Scranton, PA Phillie; the frame bars showed up at
WBRE-28 Wilkes-Barre, PA 0943 and peaked at 0953 with fair
WENY-36 Elmira, NY (175) signal levels. Philadelphia is rare."

Mark uses a Hudson 22" b+w receiver with inboard UHF, Jerrold JUP-4 antenna, a 6-foot UHF dish, 412 coax, a 40-foot tower and a CDR rotor.

Dave Brown Rt. 1 Box 514 Cumberland Road Farmville, Virginia 23901

4-14 Tr 0105 WMAL-7 Washington 2055N135 5-2 Tr 0640 WSOC-9 Charlotte 3242R245
0110 UNID-11 WBAL or WTVB? 5-4 Es 2300 KPRC-2 Houston, TX 3324R1100
4-16 0155 WCTI-12 New Bern, NC R165 (MUF to channel 4 at 2315)
0200 WMAL-7 Washington 3345R135 5-7 Tr 0115 WECT-6 Wilmington, NC N210
0210 WTOF-9 Washington 4545R135 5-8 Es 2000 UNID-2

Robert H. French 2419 Rochelle Avenue Apt. 1831 District Heights, Maryland 20028

5-5 Tr 0157 UNID-29 Hockey game. ID superimposed at lower center of screen.
0204 UNID-48 Assumed to be WKBS-48 Philadelphia
0210 WPHL-17 Philadelphia, PA

(would assume all three stations to be Philadelphia UHF's, dp)

Dave Pomeroy Eureka Springs, Arkansas

Since skip has failed to materialize at home in Overland Park, Kansas I had to go out of town to DX and fortunately found some skip in Arkansas with the reception of WESH-2 while vacationing in the Ozarks. Reception was noted at 2200 on the evening of May 13 with MUF up to channel 3--no ID over KYTV-3. Some tropo the following morning with KWTW-9 from Oklahoma City the best. Enjoyed traveling over the mountains with battery-powered Sony receiver. Got a chance to visit KGTO-36 in Fayetteville. Small town commercial television is no easy go that's for sure. Again, don't forget the convention!

Ronald J. LeBlanc 2524 Arizona Drive Marrero, Louisiana

"Well, it looks like the skip season has finally started. Looks like just about the same time it started last year. First skip noted here last year was May 18. Total stations now 241, 31 states, 7 countries. As I type this report there is a sign of more skip coming in. Maybe I'll get to fill in that extra space in this report. Hope you can make it down to the convention this year. 73's" (Time and money have

been accumulated to finally attend a WTPDA convention and I'm looking forward to seeing New Orleans again. Barring any unknown circumstances, I'll be there! dp)

4-11 Tr E. Texas/Mississippi 4-16 Tr 2215 WYEA-38 Columbus 3345R337

4-13 2000 KHTV-39 Houston, TX 4555R321 2230 WCOV-20 Montgomery 3455R

2001 KVUE-24 Austin, TX 4555R460 2250 W70AU-70 Biloxi 3335R077

2030 KHFI-42 Austin, TX 4553R460 2252 WAAY-31 Huntsville 3345R

2031 WBMC-42 Birmingham 3553R320 2300 WKAB-32 Montgomery 3345R

2100 W70AU-70 Biloxi, MS 3455R77 2301 WSB-2 Atlanta, GA 3032R

2110 WCFT-33 Tuscaloosa AL 3333R263 2305 WMSL-48 Decatur, AL 3455R

2117 WHIQ-25 Huntsville AL 3335R375 4-29 MS 0548 WLND-2 Dayton 3215R774

2320 WMSL-48 Decatur, AL 3335R375 State #31. First new state since 10/70

2323 WCOV-20 Montgomery 3335R289 4-30 Signs of skip all day

2330 WJCL-22 Savannah, GA 3335R564 5-3 Es 1930 CKPR-2 Thunder Bay 4333R

2335 WKAB-32 Montgomery 3335R289 2000 WGR-2 Buffalo, NY 3032R

2345 WAAY-31 Huntsville 3335R375 (Skip out at 2015, in again on channel

4-14 0018 WTVM-9 Columbus, GA 4334R375 2 at 2145 w/WGR? MUF did reach chan-

0030 WCSC-5 Charleston SC 3042N640 nel 3 a few times--no ID's.)

0130 KAUZ-6 Wichita Falls 2335R570 5-6 Ms 0528 WSB-2 Atlanta, GA

0140 KGBT-4 Harlingen, TX 3333R541 0529 WLND-2 Dayton, OH

0145 KDFW-4 Dallas, TX 3335R456 0535 WBBM-2 Chicago, IL

(Also seen with local quality on the 13th 5-7 0610 WLND-2 Dayton, OH

were KLRN-9, KBMT-12, KSAT-12, WSFA-12, 5-8 Es in at 1915; out at 2000 (2-3)

KTVT-11, KZTV-10, WAPI-13, KTRK-13, KHOU-11, 9 Es noted through evening 1900-2200

KNOE-8, KATV-7, KTBC-7, KTVE-10, KPRC-2 and 10 Es in at 1850

all semi-locals within 200 miles) 1859 KUSD-2 Vermillion, SD

4-15 Tr 0600 WRDW-12 Augusta, GA 3355N549 (4444R969)

0602 WSB-2 Atlanta, GA 4455R406 1900 WBAY-2 Green Bay, WI

0609 WTVM-9 Columbus, GA 4433R337 (4444R1006)

0617 WSFA-12 Montgomery AL 3443R289 Es out at 1945

J.J. Rosenberg 47 Pannahill Road Downsview 475, Ontario (EST)

"Here's my report covering a rather uneventful two-months except for a couple of freak skip openings."

2-13 Au 1700 UNID-2 weak 3-8 Es 2030 UNID-6 CCI on local 6

2-14 Es 1600 UNID-2,4 weak 2100 WDIQ-2 Dozier, AL (940)

2-18 Au 1930 strong on 2-5, weak on 7 WMAB-2 State College, MS

3-2 1900 UNID-2,4 KATC-3 Lafayette, LA (1150)

3-3 Es 2000 KETS-2 Little Rock (925) many UNID's on ch. 2-5

(opening died at 2030) 3-10, 11 late afternoon weak skip

3-6 Au 1900 UNID-2,4 3-15 Tr 2230 up to 200 miles

3-8 Es 2000 KTEW-2 Tulsa, OK (1010) 3-20 1630-2300 Tr to 200 miles

UNID-3 KARD? Wichita, KS WNEP-16 Watertown WKBF-61 Clev.

2030 KFDI-3 Wichita Falls (1225) WENY-36 Elmira, NY WNNY-7 NY

"Temperatures have been below average so no good tropo seen yet. Hope to make many improvements to installation in May after final exams. Good DX to all."

VAFI (A recap of what it means and how it's used.)

Video (V)	Audio (A)	Fading (F)	Interference (I)
No signal 0	No signal 0	Auroral flutter 0	Loss of signal 0
Just detectable 1	Just detectable 1	Deep to fast 1	Extreme 1
Heavy snow 2	Poor 2	Slow deep 2	Heavy 2
Moderate snow 3	Fair 3	Moderate 3	Moderate 3
Light snow 4	Good 4	Light 4	Light 4
Snow free 5	Excellent 5	None 5	None 5

VAFI is a system for detailed reporting of signal quality in a minimum of space. A typical DX column VAFI report would be similar to the following: 4334N540. The first four numbers read directly off the chart above. "N" indicates the station is a new logging. "R" for relog and "I" for tentative are alternates. The last numbers indicate mileage from DXer to DX station.

CCI.

[UNIDENTIFIED-DX]

Leslie J. Prus
1615 Pierre Street
Manhattan, Kansas 66502
deadline: 10th of month

JUNE 1972

IDENTIFICATIONS received this month:

Sep CCI - Glenn Hauser: 28 May 71 ch 2 Bob Jamieson News is definitely
WBEM-TV Chicago. (IDed by Gary Olson)
Apr CCI - Stu Grade: 28 May 71 ch 3 Valley View & Maverick definitely
KVDO Salem, OR. (IDed by Frank Aden)

Bruce R. Rummel, R.D. 1, Box 385, Fleetwood, Pennsylvania 19522

Tue Aug 10 Es 99.17 2200 EDT - rock mx, ann. 13 kW, and area code? 206
(WA). Bruce also suspects WKJE. PTA: WA, PR
Thu Sep 30 Tr 91.3 1900 EDT - S-on, ann. 15 or 50 kW, studio & xmtr
locations separate. PTA: OH, Great Lakes
Sun Oct 31 TD 94.9 0015 EDT - tropo duct with Beatles and Moody Blues
albums in MONO. Canned ID at 0035: WAZI?
No ads or spots heard. Suspect WZAM or
WSAB. Rest of band normal - no PTA.
Sat Nov 20 Ms 107.9 1511 EST - "WACW" jingle heard.
Thu Jan 3 Ms 88.5 2359 EST - annr's name was "Jay Gonnleman."

Joseph Markewicz, 1394 Elgin Ave W., Winnipeg, Manitoba R3E 1B6

Sat Jul 31 Es 93.3 0820 CDT - unID Spanish. (XHH Ciudad Juarez very
likely, the only 93.3 SS within Es range
of Winnipeg. You might try for a QSL. B)
Mon Aug 23 Es 105.97 0900 CDT - ID as "EBR Radio Network," into news
" " " " 100.7 1134 CDT - CW mx, ID as "one-double-oh-seven, KCFG"
begin NBC news. PTA: Midwest
Thu Apr 7 Tr 99.5 1410 CST - continuous classical mx, until 1430
when "Afternoon Concert" mentioned. PTA: MN
" " " " 89.37 1518 CST - jazz music. PTA: Minnesota
Fri Jul 30 Es ch 2 1539 CDT - ID slide "W-", then Password. PTA: East US
(Possibilities include WTWO which IDs as
W-2, but I doubt it carries Password. B)
" " " " ch 2 1630 CDT - Ad for "Piggly Wiggly Ice Co." in Solomon?
Indiana. Suspect WBEM, WTWO. PTA: IN
Identified as "TV-2"
" " " " ch 2 2030 CDT - Anmt: "Metropolitan Parks & Recreations
present Arts & Crafts: Framing & Painting"
Suspect WDCN PTA: Tennessee
Wed Aug 4 Es ch 2 1145 CDT - At 1150, "The Big Money Call" to an
Indiana number. WBBM? WTWO? PTA: IL, IN
" " " " ch 2 1400 EDT - 1400 time check, NBC slide, non-network
baseball: Cincinnati vs. New York. Suspect
WLWD, WGR, maybe WKTV. PTA: OH, NY

The GREAT "6ix" mystery (April CCI) has at last been solved. Emile Courcy wrote that he saw it again last month and identified it as WCSH-TV in Portland, Maine. Only 140 miles distant, it was received off the back of Emile's antenna last August after an opening to the south. I must confess that this has happened to me several times... Why WCSH should use a "6ix" ID slide is still a puzzle to me. Any New England DXers have the answer?

BEST OF DX, LES

VHF RADIO DX

Pat Dyer
P.O. Box 21376
San Antonio, TX 78227
Deadline: 12th of month

note address change

JUNE 1972

Hank Holbrook, 7211 Chestnut Street, Chevy Chase, MD 20015 with more QSLed VHF stations. GMT used. x, approximate.

12-31: 1616, N50308 122.8 1 mi se Bay Bridge Airport, MD (Leonard G. Redmond; Cessna 150H, single-engine)
4-8: 2024, KGD 783 34 x La Plata, MD (Southern Maryland Oil Co.)
 KGD 784 34 x Owings, MD (same)
4-9: 1413, N9712J 122.5 1 mi s Baltimore, Air Park, MD (Paul F. Wieland; Piper Cherokee 1-eng, 4-seat)
 1610, N7159A 125.9 MD (Tailwinds, Inc.; Cessna 172; single-engine, 4 seat)

Robert H. French, 2419 Rochelle Avenue, Apt. 1831, District Heights, MD 20028, a column editor for NNRG, sends his first report. GMT used.

3-21: 0130, N6482J 119.7 near Baltimore, MD
 0134, - 119.2 Pacer 54 near Washington, DC
 0140, - 133.7x Eastern 914
 0141, - 133.7x Allegheny 838
24: 0301, KGA 340 39.72x Baltimore, MD (County police)
 0302, KGF 986 39.10 Annapolis, MD (state police)
 0303, KBT 576 39.10 Glen Burnie, MD (state police)
25: 0310, - 125.3x Baltimore, MD (radar)
 0314, - 121.1x Andrews AFB (radar)
 0324, - 126.55 American 498 near Washington, DC
 0328, - 128.1x National 1605 near New York City
 0336, - 135.3x United 746
 0339, - 135.3x Eastern 417 near Washington, DC
26: 0016, - 130.8x Eastern 1520
 0019, - 130.8x Atlanta Center
 0031, - 133.0 Washington Center
 0212, - 128.3 Delta 972 near New York City
 0218, - 126.55 Washington, DC (departure)
 0229, - 125.3 Cessna 111M near Baltimore, MD
5-1: 0109, - 132.65 Washington National Airport (weather)
 0119, - 125.2x Cherokee 76N
 0124, - 125.9 Allegheny 814 near Baltimore, MD

Terry Colgan, 119 Andrews, Apt. 14, San Antonio, TX 78209 Realistic PRO-2, Midland 13-920, Petersen HL-44, with various antennas. GMT used.

5-5: 0431, KHB 40 162.55 Galveston, TX (weather)
9: 0004, KSC 645 35.58 Chicago, IL (pager)
 0046, KSB 256 39.50 Mt. Carroll, IL (sheriff)
 0136, - 35.38 El Centro, CA (mobile-phone)
 0159, KMA 829 35.58 San Diego, CA (pager)
 0215, KSC 644 43.58 Chicago, IL (pager)
 0242, KSA 213 39.46 Springfield, IL (state police)
10: 1733, KIC 854 45.06 Orlando, FL (state police)
 1832, - 35.42 Milwaukee, WI (mobile-phone)
 2037, KSJ 815 35.22 Fort Wayne, IN (pager)

My loggings now. 30-50 MHz, Allied A-2586 with 30-ft indoor random-wire antenna; 50-MHz, Swan-250 with 3-el CushCraft horizontal Yagi at 20 ft; hi-band, Wards 62-1 with 2-ft whip. All are Es modes unless noted.

* F2; bs-backscatter; peak unidentified daily Latin American F2 MUF is noted if 40 MHz or above. 50-MHz Es deleted. New underlined. CST used.

<u>4-13:</u> 0030, KHB 41 (tr)	29: 1017, KSD 326	5: 1003, L Beach
1335, 50.095-Sp.*	1037, KQD 607	<u>8:</u> 0949, KSJ 815
1420, ICNX *	1055, KSC 644	1625, KFJ 891
<u>15:</u> 1247, LU4DFN *	1121, KQD 609	1716, KQD 609
1415, 50.14-Sp.*	1215, Eau Claire	1730, KQD 607
1445, WA5HMK *bs	1405, KDN 402	1820, KSC 644
<u>18:</u> 1450, 45-Span. *	1814, L Beach	1935, KSC 645
<u>19:</u> 1550, LU3EX *	1907, KMA 829	<u>10:</u> 0853, KIY 508
2145, KHB 41 (tr)	1943, KAI 927	1118, KSJ 815
<u>20:</u> 1053, KFJ 891	<u>30:</u> 0845, KSB 230	1120, KQD 313
1108, KQD 313	0926, KSD 326	1226, KSC 645
1303, KIY 508	<u>5-1:</u> 1154, KAI 927	1312, KQD 607
1615, 50.12-Sp.*	<u>2:</u> 1917, L Beach	1419, KSB 230
1930, KFL 936	<u>3:</u> 1002, KSC 645	1431, <u>KQD 600</u>
2230, KHB 41 (tr)	1925, KQC 881	1435, KSC 644
<u>21:</u> 1120, KMA 829	1926, KSJ 815	1437, KQC 881
<u>23:</u> 1425, WA5HMK *bs	1952, KSD 326	1455, KFJ 891
1515, LU8AHW *	2324, KDN 402	1505, KSD 326
1530, LU6EAM *	<u>4:</u> 1037, KQD 313	1540, KQD 609
<u>24:</u> 1240, 40-Span. *	1137, KSJ 815	1704, Pittsburgh
<u>29:</u> 0948, KFJ 891	1204, KFJ 891	<u>11:</u> 1715, KFL 936
KQD 313	<u>5:</u> 0755, KFJ 891	<u>12:</u> 0942, KSJ 815

ICNX	50.145	ship harmonic	KSB 230	42.4	Joliet, IL-sp
KAI 927	35.34	Denver, CO	KSD 326	35.58	Indianapolis, IN
KDN 402	35.54	Omaha, NE	LU3EX	50.1	Buenos Aires, Arg.
KFJ 891	35.4	Columbus, OH	LU4DFN	50.1	Buenos Aires, Arg.
KHB 41	162.55	G. Christi, TX-w	LU6EAM	50.1	Buenos Aires, Arg.
KIY 508	35.22	Orlando, FL	LU8AHW	50.1	Buenos Aires, Arg.
KQC 881	43.58	Cleveland, OH	WA5HMK	50.1	Houston, TX
KQD 313	35.50	Dayton, OH	-	35.42	Eau Claire, WI-mp
KQD 600	35.22	Mansfield, OH	-	35.58	Long Beach, CA
KQD 607	35.50	Grand Rapids, MI	-	43.58	Pittsburgh, PA
KQD 609	35.22	Lansing, MI			

mp-mobile phone; sp-state police; w-weather; rest 35 & 43 are pagers; 50-MHz are amateur stations.

A2 tone ID's used by: KAI 927, KFJ 891, KFL 936, KMA 829, KQD 313, KQD 600, KQD 607, KQD 609, KSC 645, KSD 326, and KSJ 815

Good solar levels in April continued to provide a good deal of F2 up to 50-MHz. Later, Es began to make its annual appearance very well.

As stated in my first column (May 1970) I hoped to have this be limited primarily to ionospheric VHF DX propagation modes. Lately, there has been an increased level in the reporting of what could be classed as 'locals' for the reporters involved. These are of interest to other members usually only when they too have a chance of receiving the same stations. With the Es season going almost full blast now, some of these type of reports may be delayed in columns when DX is more slack.

73, Pat
WA5IYX/5



NORTH OF THE BORDER:

JUNE 1972

TV Approvals

St. Anthony Nfld. CBNAT-4 ch. 6 6.54/.65 kw EHAAT 591 dir. Sat. CBNAT-1 Baie Verte
 KINGSTON-BELLEVILLE Ont. Probable CJOH-1 ch 6- 55.5/9.67 kw EHAAT 671 omni. (ctv)
 to be approved when CBLT TORONTO vacates ch. 6
 NORTH BATTLEFORD Sask. ch 83 2 watts dir. Sat. CFQC Saskatoon (ctv) Bob Cooper take note!
 TORONTO Ontario CITY-TV Ch.79 31.1/3.1 kw EHAAT 405 (indep.) Target Sept 72.
 MARYSTOWN Nfld. ch.11 .4/.08 kw EHAAT 679 dir. Sat. CJOX-TV Argentinia (ctv)
 TORONTO Ontario CBLT ch. 25 234/46.8 kw. EHAAT 350 dir. (CBC Fr.net) Target Jan.73

FM APPROVALS

REGINA Sask.CFMQ-FM 92.1 mcs. Pres:5.9kw Ehaat 123 omni;auth:6.2kw EHAAT 152 omni new
 TORONTO ont. OBL-fm 94.1 mcs. Pres:39.8kwEhaat 389 omni;auth:55.7 kw Ehaat same Target
 ILES DE LA MADELEINE P.Q. 95.5 mcs erp 4.5 kw v/h omni repeats GBY-AM Quebec. P.Q.fr.CBC
 CHICOUTIMI PQ: 107.9 mcs.erp 98kw v/h omni repeats CBM-AM Montreal (CBC Eng.net)

TV APPLICATIONS

SEPT ILES PQ: ch.13# 8.1/1.62 kw Fr.CBC
 LAC ETCHEMIN PQ: ch 55 .4/.08 kw dir. Sat. CBYT Que.PQ.(CBC Fr.Net) attn: B.C. of CK City
 WELFORD Sask ch.2 11.5/kw dir. Sat of CFQC Saskatoon Sask. (ctv net)
 RADIUM HOT SPRINGS BC ch82 1.56/.156 kw dir. Sat.CBUST-1(CBC eng.)for B.Cooper to DX
 SPILLIMACHEEN BC ch.69 1.84/.184 kw dir Sat.of ch82 above (cbc net) " " " "
 FREDERICTON-St.John N.B. Ch.5- 18.5/3.7 kw dir.EHAAT 480 Sat.CBAFT Moncton (fr.CBC)
 BRANDON Man. CKX-TV ch.5# Prgs.54kw Ehaat 511 dir.Prop:44kw Ehaat 1363 dir.new site
 BRANDON Man. CJY-TV-2 Ch.4# Auth.54kw ehaat 1091 dir.Prop:55kw 1200 dir.new site (ctv)
 GONCHE Nfld ch.13 .144/.0144 kw ehaat 462 dir Sat.CBNAT-1 Baie Verte (abc net)
 ANTIGONISH NS ch.2 CJOB-2 Pres.73/37kw ehaat 921 dir.Prop:140/28 902 dir.
 MUSGRAVE HARBOUR Nfld ch 7. .195/.027 kw ehaat 438 dir Sat.CBNAT Grand Falls (CBC net)
 DAUPHIN Man ch.12# 65 kw ehaat 1092 dir Sat. CJAY-2 Brandon (ctv)
 Competing applications for RED DEER Alta ch.8# 20kw dir Sat of CFON-TV Calgary
 24kw dir Sat of CFRN-TV Edmonton
 ALBERTA xtrs. of CBXT-1 Athabaska/CFRN-TV-4 Ashmont --for channel changes:
 at Maytower ch. 13 to 83/ch. 11 to 6; at Crow Lake ch. 3 to 13/ch. 5 to 11;
 at Alger ch. 10 to 431/ch. 7 to 471; at Gregoire ch. 6 to 12/ ch. 4 to 7.

FM APPLICATIONS

BONNINGTON, BC 92.3 MHz 40 watts as LPRT of CBC ENG AM net.
 DAWSON CREEK, BC 95.7 MHz 61 watts as LPRT of CBC ENG AM net.
 KITCHENER, ONT 96.7 MHz Present: 7.8kw ehaat 217 omni; Proposed: 24kw h/v ehaat 658 omni
 QUEBEC, PQ 89.1 MHz 1.4 kw ehaat 255 omni h/v by students of Laval University
 ST. JOHN'S, NFLD 106.9MHz 100 kw h/v omni by CBC for CBC FM ENG net.
 HALIFAX, NS 100.1 MHz 100 kw h/v omni by CBS for CBC FM ENG net.
 CHICOUTIMI, PQ 100.9 MHz 98 kw h/v omni by CBC for CBC FM FR. net.
 QUEBEC, PQ 95.3 MHz 100 kw h/v omni by CBC for CBC FM FR. net.
 CTTAWA, ONT. 102.5 MHz 70 kw h/v omni by CBC for CBC FM FR. net.
 CALGARY, ALTA 102.1 MHz 100 kw h/v omni by CBC for CBC FM ENG net.

TIDBITS: CBC Technicians strike continues AM-FM-TV production affected. CBC may not be able to fulfill Canadian Content (60% TV) regs.imposed by the CRTC. Prophets predict doom for the publicly owned network.

Rumours OKEY-590 radio Toronto will apply for 107.1 fm all-news format
 ##### CITY-TV ch.79 Toronto Due Sept.72 will be mainly local...hence CITY. Projected schedule 8am-1am with late movies; 8am-4pm will re-run previous day's programs giving shift workers a 2nd chance, and advertisers an extra plug at no extra cost.
 ##### WUTV-29 continues to pick up viewers in Toronto. They are running a promo

urging Canadians to call or write their cable-TV companies for full coverage of WUTV. CRTC regulations allow CATV systems to carry 29 on a share-time basis with CIGA-19 educ. Which means Toronto cable subscribers only get WUTV after 11 pm. (Toronto has over 40% of homes on CATV) UHF antennas & converter sales heavy in this city. By 1973 we will have 5 local UHF. WUTV runs CBS late movies one nite delayed at 11 pm. They also pick up NBC SAT NITE at MOVIES because WGR-2 puts on their own movie. 29 has news for deaf-mutes at 6 pm with hand signals.

Construction begins soon for a 1500 ft tower & restaurant (revolving!) by CBC as part of new studio complex. Rumors circulate that DCC may cancel all FM & TV to locate on tower. All 10 CATV systems in Toronto will share common head end and expect to make full use of 20-ch. system from this site.

CHGH-TV ch. 11 Hamilton, Ont. IDs as "Hamilton, Toronto, & the Niagara Terin." Translators of CBLT in Northern Ontario (SBLT Geraldton, etc.) on May 1 extended hours of operation beyond 2330 hrs. to include 'TORONTONITE' (local news) and 'CINEMA SIX'. Locations are in Lakes Superior-Nipigon area.

Within 2 years the following cities will have CTV service (with in brackets the channel predicted w/ Odn. TV Allocation Plan): SYDNEY, NS (2#); CHARLOTTETOWN, PEI (8#); WINDSOR, ONT (26- or 32#); THUNDER BAY, ONT (4-); SARNIA (34-); CHATHAM, ONT (48); PRINCE GEORGE, BC (14#); SAULT STE MARIE, ONT (5); MEDICINE HAT, ALTA (8); YORKTON, SASK (10); LLOYDMINSTER, SASK (4); PRINCE ALBERT, SASK (13#); plus DAUPHIN, MAN. & RED DEER, ALTA already applied for (see above).

In case you haven't figured out a couple abbreviations:

LPRT--low power relay transmitter TV ERP given as video/audio
#---offset plus
channel underlined--- offset even channel

COMING SOON

The Book you've all been waiting for.... The complete and accurate list of Canadian FM & TV stations...plus a few surprises. Watch upcoming VUD's for further details.

J. JOEL ROSENBERG
47 FAIRHILL RD.

&

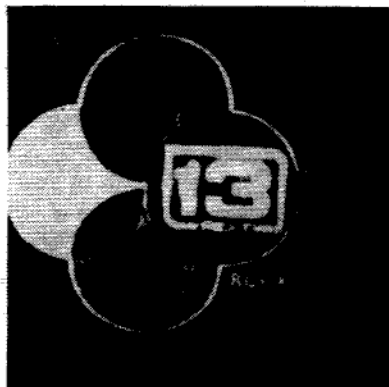
MARK L. LEWIS
224 HONICK ST.

653-1769

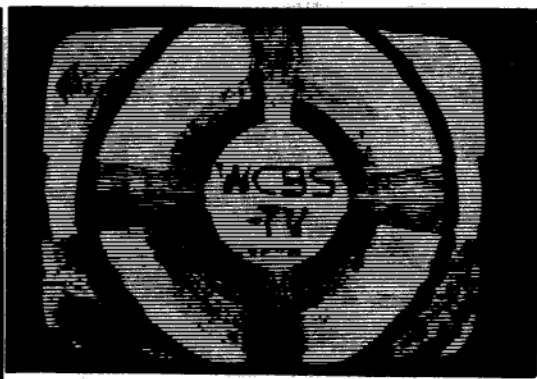
DOWNSVIEW 475, ONTARIO
phone code 416

635-0086

IF you're in or around Toronto, give us a call &/or drop in!



WREX-TV, ch. 13, Rockford, Illinois.
From Mark Lewis, Downsview, Ont.,
525 miles. 0130 EDT, July 16, 1969



WCBS-TV, ch. 2, New York City,
NY. From Les Prus, Manhattan,
KS. 12-23-69 by Es.

FM QSL CORNER

Dennis Moe
Rt.2 Box 32
St. Ansgar, IA 50472
Next Deadline: June 14

Picking up where I left off last month, here are some more veries.

- ILLINOIS:** WSIE, Edwardsville, 88.7. Hugh C. Nenninger, Engineer-in-charge signed CM. (RW)
WEPS, Elgin, 90.9 answered with their program sked for the next few months, along with a note that they intend to increase ERP to 1kw. Not really a verification. Oh well, you can't win 'em all. (GL)
WGNU, Granite City, 106.5. Verie signed by Chuck Norman, President. (RW)
WHSD, Hinsdale, 88.5 (10w) verified in 4 days with a small type-written note 3 1/2" X 5", but not signed. (GL)
WKAK, Kankakee, 99.9 verified in 16 days with a QSL card picturing antenna. Also states exact location in latitude and longitude. Signed by Vern A. Wiess, CE, who has his own evening program. (GL)
WLTJ, LaGrange, 88.1 (10w) verified by letter in 4 days including current hit parade sheet. Verl signed by Steve Wickman, Traffic Manager. (GL)
WMIX-FM, Mt. Vernon, 94.1--"Southern Illinois' Most Powerful Radio Voice" sent pleasant QSL in 4 days signed Lewis A. Piper, Jr., CE. Letter posted at studio. (DMM)
WWT0, Peoria, 105.7 sent letter signed Paul Carnegie, President, and personal letter from (RW) Rich Kalstead, Production Manager who stated my report was "by far the most distant."
WROK, Rockford, 97.5 verified in 14 days with QSL. But no signer! (GL)
WCLR, Skokie, 101.9 verified in 2 (fast aren't they?) days with QSL card. Card contains all stations receivable from Chicago area. Unsigned. (GL)
WILL, Urbana, 90.9. Card signed Rob R. Beldore, Engineering Department. (RW)
WETN, Wheaton, 88.1 (10w) verified in 9 days with a letter signed by Dennis A. Smith, Assistant Mgr/Program Director. A three-page fact booklet on station also included. Not bad for a 10w station. (GL)
WCYC, Chicago, 88.7 verified in 2 days. A small type-written note inside their community service memo. Signed by H. R. Kopta, Manager. 10w. (GL)
- INDIANA:** WTTV, Bloomington, 92.3 sent my letter back with a small hand-written note at the bottom saying this will verify reception on above date. Signed by Lynn M. Bradley, CE. Also stated that they will to mpx some time this year with dual polarization. (GL)
WFBM, Indianapolis, 94.7 verified in 8 days with QSL card signed by Robert W. Hauders. Does not state his position. Same card for AM, FM, TV. (GL)
WGEE-FM, Indianapolis, 103.3, said my report was "astoundingly correct and detailed, considering the distance involved." Bob Todd, Program Director signer. (RW)
WIFE-FM, Indianapolis, 107.9 sent card signed Michael T. Burns, Station Mgr. (RW)
WBOW-FM, Terre Haute, 107.5 sent letter signed by Jim Underwood, CE. (RW)
WLJE, Valparaiso, 105.5, verified with a letter in 10 days signed Mark W. Ehrhardt, CE. He also stated that they were out of QSL cards at the time. This as of December 23, 1971. (GL)
- IOWA:** KLGA-FM, Algona, 92.7 sent letter signed by Lyn Anderson, CE. (DMM)
WOC-FM, Davenport, 103.7 sent letter in 12 days along with QSL card. Verie signer Eugene E. McHenry, Assistant to Director of Engineering, said he welcomes any reports, and said he has been receiving many more reports recently than at any time since the station went on in 1948. (DMM)
KFHD, Dubuque, 92.9. Letter in 3 weeks with xmtr and antenna info. Signed Don A. Abitz, CE (DMM).
WDBQ-FM, Dubuque, 105.3 sent letter in 3 days signed Donald P. Heim, CE. Invited me to write again. (DMM)
- KANSAS:** KMUM, Wichita, 89.1 is a station that really gets out for 10kw. It has been heard up here in Iowa for hours at a time on tropo, but I never requested verie. Glenn and Shelby did however. Glenn says: Brad Dick, CE, confirmed October reception a month later saying power had been raised (from 220w) to 10kw a year before. Attributed "far superior range and dependability with smaller amounts of power" to circular polarized antenna. Enclosed sked. Reception by tropo. (GH) Sent letter and program

guide, signed Bradley L. Dick, CE. I enclosed a 3" tape so I could copy my taped ID and he could hear it. (SR)

KENTUCKY: WVLK-FM, Lexington, 92.9. QSL card (AM freq. crossed out, FM added). Cxt pf commercial heard on MS was confirmed. Signed Paul Dantar (?), CE. (RW)

LOUISIANA: WAFB-FM, Baton Rouge, 98.1 sent a 2-page letter in 15 days with much detail about studio equip, etc. Signed by George Bonnell, Station Manager. (PD)

WNOE-FM, New Orleans, 101.1 sent a modified AM card in 11 days, signed by Douglas A. Booth, Jr., Studio Engineer. (PD)

WTUL, Tulane U, New Orleans, 91.5 (10w). Donald R. Newcomb, Assistant Technical Director veried 510-mile tropo catch of 10-watt station. Antenna is a 4-bay stack of halos atop a twelve-story dorm. Slogan "Living Sound Radio." Enclosed program card indicating sked is 0730-0200 CLT daily. Most distant report for WTUL. (GH)

WNL-FM, New Orleans, 101.9 sent card in 10 days but for the 870 KHz AM. Signed by Sherman Andry. (PD)

MAINE: WGAN-FM, Portland, 102.9. AM-FM-TV QSL with FM circled. Specific. Signed by H. L. VanAmburgh, CE. (SR)

NEW HAMPSHIRE: WDNH, Dover, 97.5. Form Letter signed James Andrews, CE. Specific. (SR)

NICARAGUA: R. Mundial, Namagua, 97.9. Friendly letter from Allan Tefel Alba, who was at the mike, but seemed totally unaware of the rarity of this 1419-mile skip. Says power on '98 mg" is 1250w (and on 92 MHz--not heard--50 watts), and that plant is 5 km south of city. Suggested I tune in their 10 PM newscast on weekends. Fat chance! --Hi. 2 IRC's included. (GH)

ONTARIO: CJOY, Guelph, 106.1. Replied by form letter giving considerable technical data. Signed by Brian Becker, Assisatant Engineer. (PS)

CKDS, Hamilton, 95.3. Card containing a few technical details in 4 days. (PS)

CHYM, Kitchener, 96.7. Form letter used by CHYM-AM in 2 days. FM verie written in below text. Signed John R. Bentley, Engineer. CM on reverse for CHYM-AM. (PS)

CKQS, Oshawa, 94.9. Letter in 2 days, signed Wm. C. Marchand, VP and TD. (PS)

CHSC, St. Catharines, 105.7 sent card in 5 days signed R. Brundle, CE. (PS)

CKSO, Sudbury, 92.7 sent card for CKSO-AM in 3 days with FM verie text. (PS)

CKOT, Tillsonburg, 101.5, sent letter from Robert Lamers, Engineer. He states: "Hoping to receive more reports from you in the future and maybe next time at more power." Considering this station is only 4t miles away, it comes in very poorly here. (PS)

CHFI, Toronto, 98.1. Letter received in 11 days. Signed Ron Turpenny, Director of Engineering. Incidentally, this station is using new letter-heads since the AM sister station changed its call from CHFI to CFTR. (PS)

CKLW-FM, Windsor, 93.9. Card in 7 days for 800KHz AM. Signed by Widemann. (PD)

CKFM, Toronto, 99.9. Card used for CFRB, CFRX, and CKFM sent in 4 days. Signed by Clive Eastwood, VP of Engineering. This station should be heard from far and wide come spring due to increase in antenna height. At 100000 watts it's now located atop Commerce Court, next to Toronto's new city hall which is shown on the card.

PENNSYLVANIA: WKJF, Pittsburgh, 93.7 sent letter in 37 days signed Glen Anderson, CE. (PS)

VERMONT: WVNY, Burlington, 92.9. Nice letter, tho inspecific, with long mimeo list of equipment, down to Hickok tube tester! Signer Warren Chase, CE. (SR)

MEXICO: XEX-FM, Mexico City, 101.7. Brief but quite specific letter from Miguel O'Farrill Z., Director Gerante. (Member of an old Irish-Mexican family). Report sent and returned in Spanish, as are all the following. (RW)

XHJL, Estereo Mundo, Guadalajara, Jal., 91.3. Pleasant, very detailed letter from Manuel Ayala, E. Knows something about DX and describes weather cx under which he watches TV DX from Guatemala, Kansas City, etc. Statistics booklet enclosed. (RW)

Contributors: Richard Wood, Pat Dyer, Shelby Remington, G. Hauser, Lukacik, Sawatzky. 73-

TV QSL CORNER

Editor: Bill Matthews
P.O. Box 15306
Columbus, Ohio 43215

Phone: 1-614-236-0026
(6:00 PM-10:00 PM EDT)

The DX season is here with us once again - this should mean many QSLs to carry us through the summer months ahead. Report to your catches - and be sure to enclose reply postage!

A special request has been received from Glen R. Neal in Oklahoma that we announce that station KFDD, Sayre, OK, channel 8, is anxious to receive reception reports. Glen promises a quick answer and, "we don't have QSL cards, but will send a letter & bunch of skebs...if someone will just receive us!" Well, there is an invitation for all of us to be watching channel 8 for K F D D!

Now, to QSLs received from stations:

ALABAMA: WKMG, Mobile, channel 5, sent a friendly letter signed by Curtis B. Willard, Chief Engineer. Remarked that they rarely receive DX reports from Canada, that I "made their day" with the report. (Rosenberg) Very good, Joel.

ALABAMA: WHNT, Huntsville, channel 19, sent a postcard picturing a rocket. Signed by Vic Bankowski, Chief Engineer, who replied in 5 days. (Ron LeBlanc)

ALABAMA: WWSL, Huntsville, channel 48, sent a brief letter in 4 weeks, signed by Kenneth Casey, Chief Engineer. (Bob Seybold) Welcome, Bob.

CONNECTICUT: WTIC, Hartford, channel 3, sent a QSL card with a trade mark - a sower (Travelers Insurance I believe). Signer: Herman Taylor, Chief Engineer. In 18 days. (David Egan) Yes, Dave, listed as belonging to Travelers Corp. in BROADCASTING ANNUAL.

DISTRICT OF COLUMBIA: WPAJ, Washington, channel 7, sent a form letter, which looked like a QSL card on paper, after 3 follow ups. Photostated signature of I. F. Sorrells the Chief Engineer. 8 days after 3rd follow up. (Egan)

DISTRICT OF COLUMBIA: WETA, Washington, channel 26, verified by letter signed by King Harrison, Director of Engineering Operations. Included two fact sheets giving antenna heights, power, and location of TV and FM stations. Transmitter facilities in Bethesda, Maryland. (Rosenberg)

FLORIDA: WCTV, Tallahassee, channel 6, sent a letter in 7 days. Signed by Charles L. Clifton, Chief Engineer (Pat Dyer)

GEORGIA: WSAV, Savannah, channel 3, has been known to reply with a QSL card. Signer is Byron Stong. Appears to be quite irregular at this time. (Egan)

GEORGIA: WYEA, Columbus, channel 38, sent a letter in 5 days signed by V. Frank Hardman, Chief Engineer. (LeBlanc)

ILLINOIS: WEEQ, La Salle, channel 35, sends a letter in 7 days with transmitter location, antenna type and gain, and antenna height. (Harry Hein)

ILLINOIS: WMBD, Peoria, channel 31, sent a letter in 8 days with coverage map, audio-video powers, antenna height, and air date. Return postage used by station. (Hein)

ILLINOIS: WCIA, Champaign, channel 3, sent a form letter in 4 days. Signer: Lab. P. Fuenette, Chief Engineer (Dyer)

INDIANA: WLWI, Indianapolis, channel 13, sent a letter stating power and antenna height. Signer: Norman H. Nixon, Chief Engineer. Time: 8 days (Ron Hade)

INDIANA: WTHI, Terre Haute, channel 10, sent a letter signed by Russ Arnold, Vice President and Chief Engineer. Stated power, antenna height, and transmitter type. Time 12 days. (Hade)

IOWA: KIIN, Iowa City, channel 12, sent a nice and lengthy letter from Don D. Severaid, Director of Engineering. Report to Iowa Educational Broadcasting Network, P.O. Box 1758, Des Moines, Iowa. (Seybold)

IOWA: KDUB, Dubuque, channel 40, sent a nice letter and coverage map. Signer was Ken Elkins, Chief Engineer (Seybold)

KENTUCKY: WKYT, Lexington, channel 27, sent a picture postcard giving power, antenna height....signed by Harold Schumacher, Director of Engineering. (Rosenberg)

MICHIGAN: WKBD, Detroit, channel 50, sent a letter signed by Al Martin, Engineering Manager. This is a Kaiser station. (Rosenberg)

MICHIGAN: WXON, channel 62, Detroit, sent a letter in 16 days. Included info about audio-video power, transmitter type, and antenna height. Return postage used by the station. (Hein)

MICHIGAN: WWJ, Detroit, channel 4, sent a letter in 16 days with power, antenna height and location. (Hein)

MICHIGAN: WILX, Lansing, channel 10, sent a QSL card, no sign. 13 days. (Egan)

NEBRASKA: KLNE, Lexington, channel 3, verification letter sent in 8 days by Henry C. Cronin, Director of Engineering. Included coverage map. (Dave Brown) Reports to KLNE, Nebraska ETV Commission, 1600 R Street, Lincoln, Nebraska 68508

OHIO: WKBF, Cleveland, channel 61, sent a long letter giving ERP, height, equipment types and signed by N. William Faun, Engineering Manager. Yet another Kaiser station. (Rosenberg)

OHIO: WCPO, Cincinnati, channel 9, sent a card with information on the reverse. Signer: Archie Miller, Chief Engineer. Time: 8 days. (Hede) A friendly station..

Thanks to this month's contributors....Joel Rosenberg and David Egan in Canada, Ron LeBlanc in Louisiana, Bob Seybold in New York, Pat Dyer in Texas, Harry Hein in Illinois, Ron Made in Illinois, and Dave Brown-Virginia.

Convention report

DATE: August 3, 4, 5 and 6

PLACE: Marrero, Louisiana (near New Orleans.)

CONVENTION HOST: Ron LeBlanc, 2524 Arizona Drive, Marrero, LA 70072

THURSDAY AUGUST 3: 1800: Registration and get acquainted in the meeting room.
2200: Visit to Ron's DX Shack.

FRIDAY AUGUST 4: 0900: Continued registration and greetings from Ron.
1000: Leave meeting hall for optional tour of WWL-TV studio and transmitter site.
1200: Lunch with other DXers, on your own.
1330: Leave lunch area for optional tour of WNOE FM studio and transmitter site.
1550: Panel discussion on FM-DXing by Bruce Elving, Glenn Hauser, Richard Wood, Mike Dorner. Ready with those questions?
1730: Dinner, on your own...
1900: DXers slides, films, pictures, tapes, etc., along with stories about that big one that got away!
2200: On to Ron's house for DX (??) and possible WGNO-TV interview.

SATURDAY AUGUST 5: 0900: Bob Cooper's TV tech discussion and equip. demo.
1200: Lunch, on your own...
1315: Channel Master antenna demo and discussion. Q&A.
1430: Antenna discussion by Dave Janowiak.
1530: TV and FM ss discussion by Glenn Hauser & Richard Wood.

1730: Back to Ron's house for a Louisiana style cookout! Possible WGNO-TV talk show later. DX till ????
SUNDAY AUGUST 6: 0930: Club Activities & VHF-UHF DIGEST discussion. Dave Janowiak, Bruce Elving, Ferdie Dombrowski and Morrie Goldman.
1200: Lunch
1330: Wrap up convention business.

All times are approximate. Full details on convention fee, motel costs and how to make your reservations will appear NEXT MONTH in the VHF-UHF DIGEST. In the mean time, if you plan to attend, try to drop Ron a card.

TV AND FM RECEIVING ANTENNAS: FANTASIES, FACTS, AND FADS
PART VII: Special Antennas

For convenience, I've grouped all antennas that do not fit the yagi, log periodic, or yagi/log classes into the "special" category. They are not necessarily special in performance, and they constitute a small part of antennas used by DXers today.

A complete list of special antennas would include those antennas popular 10-20 years ago: collinear, rhombic, in-line, trombone, double V, etc. These names alone should juggle the memories of the over 30 year old crowd.

Since the abovementioned antennas would not usually be a DXer's choice today, it's silly to waste time describing them. In fact, all of the special antennas described here are used primarily at UHF.

Obviously, I'm an advocate of the Finco 7-foot parabolic dish (actually, a 10 or 12 foot dish, home made, when I can afford the material, support structure, and heavy duty rotor). If, however, a DXer cannot immediately justify a dish, several smaller and such cheaper UHF antennas can be erected temporarily. The characteristics of these inexpensive UHF antennas vary greatly as you will see.

Bow-Tie and Screen -

This basic antenna, shown in Figure 11, is similar to a 2-element yagi. The bow-tie driven element resembles a fanned folded dipole. However, bow-tie bandwidth is much wider, covering possibly a 2:1 range, whereas the folded dipole has about a 10% bandwidth and a dipole only 5%.

The screen acts like a reflector on a yagi. That is, it reduces the back lobe, sharpens the front lobe, and adds a few db of gain. However, the screen is not ideally located for all channels, resulting in varying gain and VSWR.

The result of all this is a 2 to 4 db gain antenna, with wide 70-100° beamwidth, and VSWR of up to 2:1. Even if you're in the \$10 and under UHF antenna market, this is a poor choice.

Multiple Bow-Tie, Billboard -

Sometimes combinations of 2, 4, 8, 12, or 16 bow-ties are arranged on a common screen. On larger types, bow-ties are replaced by lighter "cat's-whisker" elements. Gain increases from 1 to 2.5 db each time the antenna size is doubled.

The huge 12 and 16 bay arrays are often called billboards because of their appearance when mounted on the mast. Claimed gains are 12 to 15 db. While you might be tempted to purchase one of these because its gain approaches that of a 5 foot dish, don't do it.

Most billboards have several adjusting screw/slot affairs that allow you to change distance from the bow-tie to the screen. You can, therefore, peak the entire antenna gain. For example, you may achieve 15 db gain on channel 30 with correct spacing, but channel 14 gain may be only 8 db, and channel 83 gain may be 3 or 4 db. (Closer spacing increases gain at the high end.)

Bow-ties are interconnected by a stacking phase harness. Since stacking bars are effective only over about 20% of the band, you cannot achieve optimum gain over the entire UHF range when you interconnect elements. This is preset, ie, you can't change it.

Twelve-bay billboards often cost 20 to 30 dollars. They present a big wind/ice load (but not nearly as great as with a dish). If you've got that much money to spend, buy a parabolic dish instead.

Corner Reflector (CR) -

This antenna typically produces 8 to 12 db gain, very wide (100°) beamwidths, fairly decent F/B and F/S ratios, and good impedance match.

The proximity of the driven bow-tie element to the V-eeed screen greatly affects the gain. The larger the screen, the greater the capture area and, therefore, gain. However, a two-wavelength wide screen is about optimum. One-wavelength wide is what you'll get with a "store bought" CR.

Unfortunately, for a given screen size and angle of the V, optimum performance on a given channel occurs at a set, given distance between the bow tie and the V. The CR, therefore, shares the common fault of those antennas described previously: it is frequency dependent. That is, it may have fine gain at, say, channel 50, but considerably lower gain at channel 14. The closer the bow tie is to the V, the more the higher channels are favored.

At about \$5 a crack, the CR isn't that bad, with its average 9-10 db gain. However, the wide front lobe makes it difficult separating two on-channel stations within a 100° heading of each other. During good duct openings, you'll log the very strong stuff. But remember, don't expect to log 50% of the stuff over 250 miles that you'd see with a 7 foot dish.

True Parabolic -

The highest gain and directivity values of any practically-sized antenna are possible with a parabolic reflector and associated feed. Called a dish (slang) the reflector (usually mesh wire or closely-spaced aluminum tubes) shape resembles a bowl or (for ease of manufacture) a saucer sled.

Figure 12 shows how a parabolic works. Assume that the dish is viewed from the side, top, or bottom, with the curve shown existing at the center (cross-sectional view). The dots represent a solid wavefront approaching the dish. Because of the curved surface, the summed distance from any point along the wavefront to the reflector plus the distance from reflector to a single central point is the same. Thus, distance $A + B$ equals $C + D$, meaning that the time it takes for all signals along the front to arrive at the convergence point is equal. The convergence point is called the focus, or focal point.

With the dish, the signal actually bounces off of the reflector (solid metal or mesh) at an angle that causes focusing at the focal point. This differs from the reflector element on a yagi, which sets up a field that reinforces gain, but does not cause a signal bounce toward the driven element.

Note that frequency did not enter into this description. Remember that with a corner reflector, the optimum location of the feed varied as frequency changed. The frequency independence of the dish is extremely desirable.

Limitations there are, to be sure. The dish must have a certain minimum size, usually two or three wavelengths across the mouth, to produce pinpoint focusing. Also, the curve must be such that the focal point is at least one wavelength from the reflective surface. If not, the reflector acts like a reflector on a yagi, so that the intended (bounced) signal is reduced because of direct pickup of folded dipole + screen.

The weakest point of popular dish antennas is the feed. It's one thing to route all signals "captured" by the curve of the dish to a central point; it's another matter making the feed antenna receptive (resonant) to all signals desired. A folded dipole only may be used as a feed. However, dipole gain will be less as you move away from resonance.

Multiple element feeds help a little, but you can't make the feed too directive or it will not capture signals reflected from the outer extremes of the dish.

Since dish gain is related to mouth area at a given frequency, the gain is often greater at the higher (translator) frequencies, even though the feed antenna favors the lower channels. The major problem of all 5, 6, and 7 foot dishes, therefore, is the feed. It just isn't wide band enough.

If you "reworked" the feed, you could squeeze 3 or 4 db more out of any dish at some channels, but you might severely reduce the gain at other channels. For example, the folded dipole on a Finco 7-foot dish can be shortened, cut for the center of the translator band.

The subject of dish antennas is interesting. I've barely scratched the surface of considerations that any designer must think about.

Why do some people harp and harp that the Finco 7-foot dish (model P7, about \$36 wholesale) is the best for UHF? Simply because it is. No practical, commercially available for TV, antenna has the high gain and sharp directivity (10° to 15° typical) of a 7-foot dish. This is essential for consistent, long haul UHF DX.

Half-Dishes -

Jerrold sells a dish that is curved in one plane only. Signals above and below the feed are reflected to the feed as in a parabolic; signals to the side of the feed are not reflected. You're loosing about 50% of the signal you could have if the dish was curved completely in all planes. A 7-foot Finco is much better, probably averaging 5 to 6 db more gain.

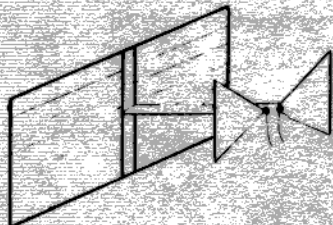


FIGURE 11: Bow-tie

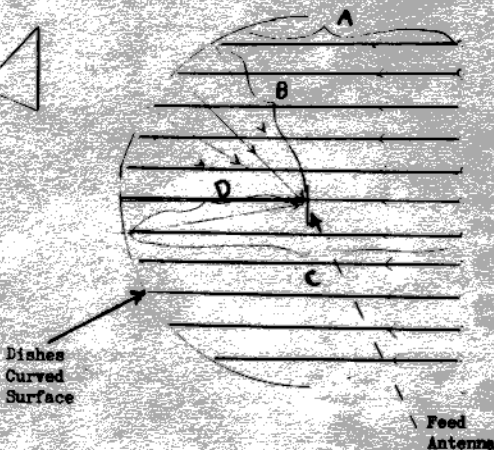
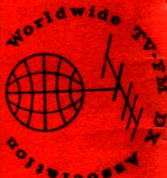


FIGURE 12: Parabolic

Concluded next month.

Dave

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The VHF-UHF DIGEST is the monthly publication of the Worldwide TV-FM DX Association. WTPDA is a nonprofit organization and a member club in the Association of North American Radio Clubs.

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