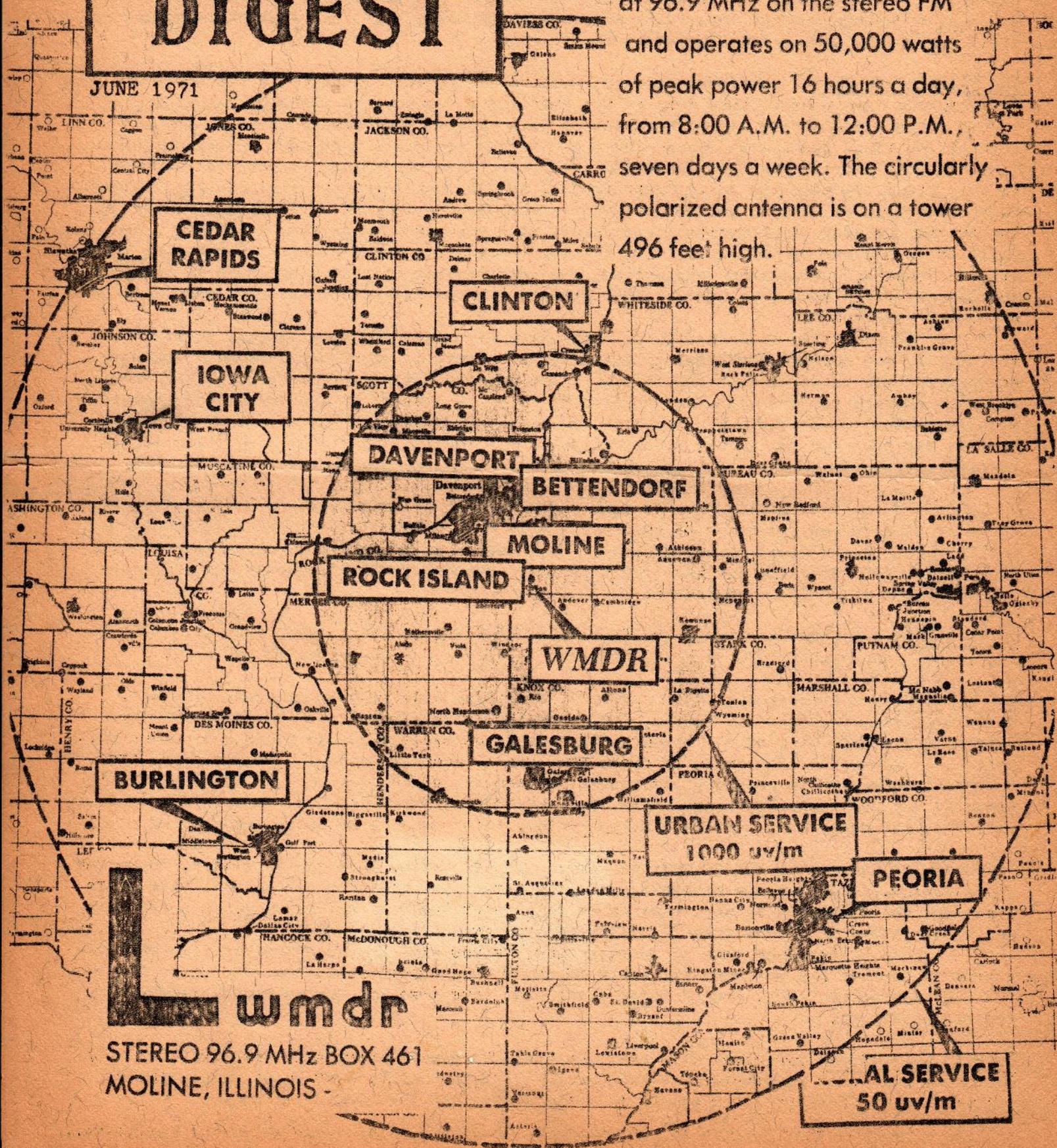


VHF·UHF DIGEST

JUNE 1971

WMDR (FM), Moline, began broadcasting on Sunday, November 22, 1970. Licensed for operation in Moline, WMDR (FM) broadcasts at 96.9 MHz on the stereo FM and operates on 50,000 watts of peak power 16 hours a day, from 8:00 A.M. to 12:00 P.M., seven days a week. The circularly polarized antenna is on a tower 496 feet high.



wmdr
STEREO 96.9 MHz BOX 461
MOLINE, ILLINOIS

URBAN SERVICE
1000 uv/m

AL SERVICE
50 uv/m

DUES INCREASE: DUE TO THE INCREASE IN POSTAL RATES ON 16 MAY, THE MEMBERSHIP DUES HAVE BEEN RELUCTANTLY RAISED EFFECTIVE ON THAT DAY. WE DIDN'T KNOW THE EXACT RATE INCREASE FOR THIRD CLASS UNTIL A COUPLE DAYS AFTER THE RAISE, BUT AN AD TO BE PLACED IN QST MAGAZINE HAD ALREADY QUOTED A RATE OF \$5.50 FOR ONE YEAR SO THAT IS THE NEW RATE. RATE INCREASES ARE CONSIDERED TEMPORARY, CONTINGENT ON HEARINGS TO BE HELD--NOW UNDERWAY AT THIS WRITING. IF A SIGNIFICANT FURTHER RAISE RESULTS, WE MAY AGAIN HAVE TO RAISE RATES THIS YEAR. THE FIRST CLASS SUPPLEMENTAL FEE HAD ALREADY BEEN RAISED TO \$3 ON MARCH 1 SO THAT RATE WILL BE UNAFFECTED AT THIS TIME. BUT SINCE FIRST CLASS POSTAGE RATES ARE ALSO TEMPORARY, THAT RATE MAY ALSO BE RAISED FURTHER THIS YEAR, ALTHOUGH IT SEEMS UNLIKELY THAT FURTHER INCREASES IN FIRST CLASS WILL RESULT FROM THE HEARINGS.

NEW MEMBER PACKAGE: A BEGINNERS COURSE IN DXING THE VHF-UHF BANDS IS IN THE WORKS AND WILL BE AVAILABLE THIS MONTH. SINCE THIS IS NOT STRICTLY A "WELCOME TO THE CLUB" PACKAGE LIKE OTHER CLUBS HAVE, WE ARE MAKING THE PACKAGE AVAILABLE TO NON-MEMBERS AS WELL, AND ARE ADVERTISING IT AS SUCH. MANY BOOKS HAVE BEEN WRITTEN FOR RADIO DXERS BUT NOTHING SIGNIFICANT HAS BEEN WRITTEN FOR DXERS ABOVE 30 MHz, UNTIL NOW. SINCE THIS IS OUR FIRST EFFORT IN THIS FIELD, WE WILL ADD TO IT PERIODICALLY, INCLUDING SIGNIFICANT ARTICLES FROM FUTURE VUDs WHICH WILL BE HELPFUL TO THE BEGINNER AS WELL AS THE MORE EXPERIENCED DXER ABOVE 30. THE INITIAL PACKAGE WILL CONTAIN A PAGE AND A HALF EACH ON PROPAGATION AND FM DX, TWO PAGES ON TV DX, ONE ON VHF RADIO, PLUS GENERAL INFORMATION ABOUT WTFDA'S HISTORY AND SERVICE TO MEMBERS; PROPAGATION PREDICTIONS, AND ABBREVIATION LIST WILL BE ADDED IN COMING MONTHS--REPRINTED FROM THIS MONTH'S VUD. SIMILARLY UPCOMING FEATURE ARTICLES WILL ALSO BE REPRINTED FROM THE VUD.

THE INITIAL PACKAGE WILL BE GIVEN FREE WITH EACH TWO YEAR RENEWAL RECEIVED AFTER JUNE 1, AND ALL NEW MEMBERSHIPS REGARDLESS OF LENGTH OF MEMBERSHIP. MEMBERS WHO HAVE RENEWED FOR TWO YEARS RETROACTIVE TO JAN. 1 CAN RECEIVE THE PACKAGE ON REQUEST; MEMBERS WHO HAVE RENEWED FOR ONE YEAR, CAN RECEIVE IT FREE ON REQUEST IF THEY RENEW FOR ANOTHER YEAR BY AUGUST 1. OR THE CHEAP OPTION FOR EVERYONE, MEMBER OR NOT, IS TO SEND 25¢. MEMBERS CAN THEN ADD THE FUTURE SUPPLEMENTS AS THEY APPEAR IN THE VUD SINCE THEY WILL BE REPRINTED VERBATIM ANYHOW. TWO YEAR MEMBERSHIP FEE WILL BE \$10 EFFECTIVE IMMEDIATELY.

WHILE YOUR AT IT, WHY NOT SEND FOR A PACKAGE OF STATIONERY OR VERIFICATION (TV) FORMS AT \$1 EACH FOR A PACK OF 45 SHEETS? OR AN FM STATION ATLAS OF THE USA AND CANADA FOR \$2 (ADD 25¢ FOR FIRST CLASS MAILING). OR A RUBBER STAMP OF THE CLUB EMBLEM FOR \$2. (ALL PRICES ARE POSTPAID. THE LAST TWO ITEMS ARE PRODUCED BY WTFDA MEMBERS BUT ARE AVAILABLE FROM HQ BY SPECIAL ARRANGEMENT.)

BACK-ISSUES: CURRENTLY AVAILABLE AT 35¢ EACH TO MEMBERS: DECEMBER 1969, FEBRUARY 1970, AND ALL ISSUES FROM AUGUST 1970 TO DATE. SOME ARE IN VERY SHORT SUPPLY SO ORDER NOW!!

CONVENTIONS: THE THIRD ANNUAL WTFDA CONVENTION WILL BE HELD IN EAST LANSING, MICHIGAN. DATES WILL BE A SATURDAY AND SUNDAY, AUGUST 14-15, AT THE UNIVERSITY INN MOTEL ON TROWBRIDGE ROAD. RATES WILL BE \$11 SINGLE, \$15 DOUBLE, OR \$7.50 EACH FOR DXERS WHO DOUBLE UP, WHICH ALWAYS DO. THE MOTEL IS NICE, NEW, HAS A POOL AND A COUPLE RESTAURANTS, ETC. A MEETING ROOM WILL BE PROVIDED, OF COURSE. A BACKYARD BARBECUE WILL BE PROVIDED SATURDAY NIGHT AT THE HOST'S HOUSE, ROGER BROWN. MEAL AND REFRESHMENTS WILL BE INCLUDED IN THE REGISTRATION FEE TENTATIVELY SET AT \$10 PER PERSON; THIS FEE ALSO INCLUDES THE MEETING HALL.

THE MOTEL IS LOCATED AT THE TROWBRIDGE EXIT OF US 127 NORTH. PLAN NOW TO ATTEND. BRING THE WHOLE FAMILY. LETS MAKE OUR CONVENTIONS FAMILY GATHERINGS LIKE THE AIPA USE TO HAVE; ITS GREAT FOR THE DX-WIDOWS TO GET TOGETHER TO TALK ABOUT THOSE WEIRD HUSBANDS AND BOYFRIENDS WHO SIT IN FRONT OF A BOOB-TUBE WATCHING SNOW ANDSCREWY PATTERNS!

AS WE DID LAST YEAR SO SUCCESSFULLY, IF YOU WANT A RIDE OR ARE WILLING TO GIVE A RIDE TO SOMEONE WHO MAY NEED IT, WRITE HQ AND WE'LL PUBLISH THE INFO FOR ALL TO SEE IN THE JULY AND AUGUST VUDs. AND/OR ROGER MIGHT HAVE SOME INFO FOR YOU AS WELL AS PLANS ARE FURTHER DEVELOPED.

CHANGE OF EDITORS: EFFECTIVE WITH NEXT MONTH'S VUD, BRUCE ELVING WILL TAKE OVER THE FCC/FM COLUMN AND CHUCK DOBBINS WILL CHANGE FROM FCC/FM TO FCC/TV. GARY OLSON WILL STILL BE WRITING THE MAILBAG BUT A NEW EDITOR IS BEING SOUGHT FOR THAT COLUMN AS WELL.

CREDIT: THE WVAR TEST PATTERN IN LAST MONTH'S TP GUIDE WAS FROM RON LE BLANC, LOUISIANA..

STATISTICS

Glenn Hauser, editor
 PSC Box 42309
 Kelly AFB TX 78241
 J U N E 1 9 7 1

ADDITIONS AND REVISIONS

Ch	Call	Location	Prop Miles	DXer, Location	Old Record
2	WDIQ	Dozier AL	T 240	Ron Le Blanc, Marrero LA	Rareshide TIE
	CFCL2	Kearns Ont	(Es) 1345	Ron Le Blanc, Marrero LA	Cooper 1235
	XHCH	Chihuahua Chih	965	Ron Le Blanc, Marrero LA	Wigh & Pizzi TIE
	XHFA	Nogales Son	820	Robert Cooper, Oklahoma City OK	new
	XHI	Ciudad Obregón Son	1205	Ron Le Blanc, Marrero LA	Grace & Wigh 850
3	WBTW	Charlotte NC	T 325	John Pinckney, Alexandria VA	Berg 290
	KYW	Philadelphia PA	MS 1130	Les Prus, Manhattan KS	Draeb 705
	KACB	San Angelo TX	T 325	Don Ruland, Houston TX	Grace 235
4	WTVY	Dothan AL	T 295	Ron Le Blanc, Marrero LA	new
	WWL	New Orleáns LA	MS 1105	Dave Long, Lockport NY	Draeb 1015
	KMOX	Saint Louis MO	T 595	Ron Le Blanc, Marrero LA	Howington 495
	WLWC	Columbus OH	MS 720	Les Prus, Manhattan KS	new
	CHAB	Moose Jaw Sask	1505	Roy Horsley, Steele AL	Tilbrook 1425
6	KCEN	Temple TX	T 435	Ron Le Blanc, Marrero LA	Hauser 355
	KAUZ	Wichita Falls TX	T 565	Ron Le Blanc, Marrero LA	Hauser 180
	XET	Monterrey NL	T 690	Ron Le Blanc, Marrero LA	Grace 430
7	WTVW	Evansville IN	(T) 725	Don Ruland, Houston TX	Nieman 555
9	KECC	El Centro CA	170	Matt & Brad Wall, San Bernardino CA	new
	KTRE	Lufkin TX	290	Ron Le Blanc, Marrero LA	Rareshide TIE
10	KOOL	Phoenix AZ	MS 715	Glen Neal, Sayre OK	new
	KBIM	Roswell NM	835	Ron Le Blanc, Marrero LA	Grace 450
	K10FR	Fargo OK	75	Glen Neal, Sayre OK	KWTV-9 new
11	WTOC	Savannah GA	555	Ron Le Blanc, Marrero LA	Howington 450
12	K12GA	Fargo OK	75	Glen Neal, Fargo OK	WKY-4 new
13	KLBK	Lubbock TX	730	Ron Le Blanc, Marrero LA	Rareshide TIE
15	KAMU	College Station TX	80	Don Ruland, Houston TX	Grace 25
17	WJKS	Jacksonville FL	510	Ron Le Blanc, Marrero LA	Clark 295
20	WBBH	Fort Myers FL	570	Ron Le Blanc, Marrero LA	Napier 95
	WCJB	Gainesville FL	465	Ron Le Blanc, Marrero LA	new
24	WMFE	Orlando FL	520	Ron Le Blanc, Marrero LA	new
28	KSEL	Lubbock TX	450	Don Ruland, Houston TX	Grace 360
35	WRLK	Columbia SC	605	Ron Le Blanc, Marrero LA	Clark 545
39	KDTV	Dallas TX	450	Ron Le Blanc, Marrero LA	Hauser 255
*41	WIIQ	Demopolis AL	215	Ron Le Blanc, Marrero LA	new
52	WNJT	Trenton NJ	35	Jerry Pulice, Staten Island NY	new
70	W70AU	Biloxi MS	80	Ron Le Blanc, Marrero LA	WWL-4 new
	W70AO	Fond du Lac WI	65	Bill Draeb, Kewaunee WI	new
71	K71BG	Wellington TX	45	Glen Neal, Sayre OK	new
72	W72AJ	Escanaba MI	95	Bill Draeb, Kewaunee WI	WLUC-11 new
	W72AA	Iron Mountain MI	100	Bill Draeb, Kewaunee WI	WLUC-6 new
	K72CB	Higgins TX	60	Glen Neal, Sayre OK	KFDA-10 new
73	K73AU	Wellington TX	45	Glen Neal, Sayre OK	new
74	W74AN	Escanaba MI	95	Bill Draeb, Kewaunee WI	WWTW-9 new
75	W75AE	Iron Mountain MI	100	Bill Draeb, Kewaunee WI	WLUC-11 new
76	W76AI	Escanaba MI	95	Bill Draeb, Kewaunee WI	WLUC-6 new
77	W77AA	Iron Mountain MI	100	Bill Draeb, Kewaunee WI	WFRV-5 new
80	K80AU	Memphis TX	65	Glen Neal, Sayre OK	KFDA-10 new
	K80AT	Wheeler County TX	40	Glen Neal, Sayre OK	new
81	K81##	Cheyenne OK	20	Glen Neal, Sayre OK	KVII--7 new
82	K82AZ	Memphis TX	65	Glen Neal, Sayre OK	KGNC-4 new
*41	WDRB	Louisville KY (IN)	315	Roger Brown, East Lansing MI	new

TV RANK

<u>DXer, Location</u>	<u>Stations</u>	<u>States</u>	<u>Provinces</u>	<u>Countries</u>	<u>As of date</u>
Robert Seybold, Dunkirk NY	492	49	9	6	17 April
*Gary Olson, Deerfield area IL	281	--	-	-	6 December
Roger Brown, East Lansing MI	280	39	5	4	19 April
Bill Heusmann, Steger IL	241	37	6	5	8 April
Morrie Goldman, Chicago IL	238	39	5	4	19 February
*Mark Lewis, Downsview Ont	207	36	7	2	7 December
Ron Le Blanc, Marrero LA	177	30	1	6	10 May
*Jerry Pulice, Staten Island NY	153	33 DC	3	3	5 December
Robert Grace, Franklin TX 77856	149	30	2	4	6 April
Joe Kureth, Southern Pines NC	133	25 DC	4	4	10 December
Pat Dyer, San Antonio TX	127	34	2	5	14 April
Dave Egan, Valleyfield PQ	126	31	4	3	12 March
Paul Luchter, Oceanside NY	121	25 DC	3	2	11 February
Bill Heusmann, Des Moines IA	118	26	1	5	8 April
Fred Nordquist, North Syracuse NY	99	18	2	2	1 February
Thomas Yingling, Baltimore MD	67	20 DC	1	3	9 March

FM RANK

Bruce Elving, Duluth MN	927	39 DC	3	2	5 February
Robert Seybold, Dunkirk NY	435	29	3	2	17 April
Andy Bolin, Charleston IL	384	16	1	2	1 May
Fred Nordquist, North Syracuse NY	200	21	2	2	1 February
John Parillo, Girard OH	170	14 DC	1	2	1 May
Peter Hobday, Potsdam NY	104	6 DC	2	2	21 January
Bill Heusmann, Des Moines IA	86	12	0	1	8 April
Pat Dyer, San Antonio TX	71	9	0	1	14 April
Thomas Yingling, Baltimore MD	24	8	0	1	9 March

CHANNEL 7 TROPO TVDX RECORDS

WCIQ	Mt Cheaha State Park AL	350	Ron Le Blanc, Marrero LA	was WTIQ
			tie Clarence Rareshide, New Orleans LA	
KATV	Pine Bluff AR	745	Don Ruland, Holly Hill FL	
KABC	Los Angeles CA	860	Doris Johnson, Longview WA	
KVIP	Redding CA	420	Ray O'Rear, Zillah WA	now KRCR
KGO	San Francisco CA	315	Charles Wood, Ashland OR	
KØ7HA	Springville CA	45	Dennis Smith, Wasco CA	of KLYD-17, now KJEO-47
KLZ	Denver CO	65	Glenn Hauser, Leadville CO	via CATV
WDEL	Wilmington DE	195	Robert Cooper, Ithaca NY	now off
WMAL	Washington DC	460	Dave Egan, Valleyfield PQ	
WJCT	Jacksonville FL	520	Ed Bourgeois, Norco LA	
WCKT	Miami FL	1145	Pat Dyer, San Antonio TX	
WJDM	Panama City FL	900	Ferdinand Dombrowski, Watertown WI	was WJHG
KTVB	Boise ID	205	Gordon Simkin, Idaho Falls ID	
WBKB	Chicago IL	685	Robert Cooper, Oklahoma City OK	now WLS
KHQA	Quincy IL	(MS?) 975	John Cody, Middletown CT	
WTVW	Evansville IN	725	Don Ruland, Houston TX	
KWWL	Waterloo IA	(MS?) 985	John Cody, Middletown CT	
KAYS	Hays KS	745	Bill Meers, Lagrange KY	
KOAM	Pittsburg KS	620	Bill Draeb, Kewaunee WI	
KPLC	Lake Charles LA	760	Enrique Veazey Fernández, Ci del Carmen México	
WEMT	Bangor ME	230	Gene DeLorenzo, Hyannis MA	
WNAC	Boston MA	410	Robert Seybold, Dunkirk NY	
WLAV	Grand Rapids MI	345	E. Gustafson, Keokuk IA	now ch 8, WOOD
WXYZ	Detroit MI	745	Ed Rugel, Independence KS	
WPBN	Traverse City MI	565	Dave Egan, Valleyfield PQ	
KCMT	Alexandria MN	655	Glenn Hauser, Enid OK	

WDAM	Hattiesburg MS	725	Morrie Goldman, Chicago IL	
KMNE	Bassett NE	480	Robert Cooper, Oklahoma City OK	
KETV	Omaha NE	875	David Nieman, Buffalo NY	
KOAT	Albuquerque NM	700	Carl Dabelstein, Omaha NE	
WKBW	Buffalo NY	540	Bruce Metzner, Madison WI	
WCNY	Watertown NY	255	Frank Wheeler, Erie PA	now WWNY
WABC	New York NY	805	Barney Rauch, Peoria IL	was WJZ
WITN	Washington NC	580	Jeff Kadet, Needham MA	
KØ7GZ	Minot ND	15	Fred McCormack, Des Lacs ND	of KXMC-13
WHIO	Dayton OH	1035	Nick Bocker, Brandon Man	
WTRF	Wheeling WV (OH)	875	Clarence Floagle, Abilene KS	
KØ7FX	Gage OK	105	Glenn Hauser, Enid OK	of WBAP-5
KSWO	Lawton OK	395	Dave Pomeroy, Overland Park KS	
KOAC	Corvallis OR	160	Eddie Allright, Medford OR	
WITV	Charleston SC	165	Joe Kureth, Southern Pines NC	
WSPA	Spartanburg SC	695	Bill Draeb, Kewaunee WI	
WDXI	Jackson TN	425	Frank Hill, Gallipolis OH	now WBBJ
KVII	Amarillo TX	495	Bedford Brown, Hot Springs AR	
KTBC	Austin TX	1000	Don Ruland, Holly Hill FL	
KOSA	Odessa TX	575	Bedford Brown, Hot Springs AR	
KLTV	Tyler TX	690	Bill Meers, LeGrange KY	
KUED	Salt Lake City UT	205	Gordon Simkin, Idaho Falls ID	
WDBJ	Roanoke VA	635	Bill Draeb, Kewaunee WI	
KIRO	Seattle WA	380	Charles Wood, Mount Ashland OR	
WSAU	Wausau WI	765	Robert Cooper, Oklahoma City OK	
CJAY	Winnipeg Man	215	Fred McCormack, Des Lacs ND	
CKRT	Rivière du Loup PQ	85	Chislain Girard, Arvida PQ	
CHLT	Sherbrooke PQ	255	Fred Nordquist, North Syracuse NY	
CKOS2	Carlyle Lake Sask	110	Fred McCormack, Des Lacs ND	now CFSS
CKMJ	Marquis Sask	250	Fred McCormack, Des Lacs ND	
CMBA	La Habana Cuba	705	Ed Bourgeois, Norco LA	now off?
XELD	Matamoros Tams	970	Robert Weems, State College MS	
WRIK	Poncé PR	115	Robert Cooper, Frederikstad VI	
(plus some translators logged while travelling--strictly speaking, records!)				
KØ7GD	Glenwood Springs CO	5	Bill Heusmann, mobile	of KREX-5
KØ7HH	Julesburg CO	0	Bill Heusmann, mobile	of KHPL-6
KØ7CF	South Rifle CO	0	Bill Heusmann, mobile	of KREX-5

CHANNEL 15 TVDX RECORDS

WOWL	Florence AL	560	Robert Cooper, Oklahoma City OK	
KEBS	San Diego CA	245	Jim Pizzi, Santa Maria CA	
WDCO	Cochran GA	470	Dick Clark, Fort Lauderdale FL	
WBLN	Bloomington IL	285	Bill Draeb, Kewaunee WI	now off
WICD	Champaign IL	610	Robert Cooper, Oklahoma City OK	was WCHU-33 & 24
WANE	Fort Wayne IN	765	Robert Cooper, Oklahoma City OK	was WINT
WKPC	Louisville KY (IN)	445	Robert Seybold, Dunkirk NY	was WFPK (KY)
KLNI	Lafayette LA	555	Glenn Hauser, Enid OK	
KPOB	Poplar Bluff MO	280	Earl Fleer, Kansas City KS	
WHED	Hanover NH	365	Robert Seybold, Dunkirk NY	
WICA	Ashtabula OH	380	Bill Draeb, Kewaunee WI	now off
WTAP	Parkersburg WV (OH)	280	David & Richard Nieman, Buffalo NY	
WLYH	Lebanon PA	440	Roger Brown, East Lansing MI	was WLBR
KAMU	College Station TX	80	Don Ruland, Houston TX	
WVEC	Hampton VA	430	Russell Ashworth, New Bedford MA	now WHRO
WBRA	Roanoke VA	360	Robert Seybold, Dunkirk NY	
WMTV	Madison WI	675	Robert Cooper, Oklahoma City OK	

One member has suggested that we include dates records were set. Since this would cause quite a bit more trouble, we'd like to know if any researchers or others need this info.

73 de Glenn

VHF DX

Pat Dyer
327 Solar Drive
San Antonio, Texas 78227
Deadline: 12th of month

JUNE 1971

Up to deadline time, Es has been ominously scarce this season.

Hank Holbrook, 7211 Chestnut Street, Chevy Chase, MD 20015 with one more bit of QSLed DX, GMT used.

11-14: 1554, KOG 593 33.22 Fiddler Creek (near Upton), WY
(Terra Resources; crude oil producers)

It now appears that Hank's earlier loggings of the Texas Department of Public Safety on 42-MHz were thru the South American repeaters.

Thomas J. Yingling, WDX3OMY, 221 Pinewood Road, Baltimore, MD 21222 Lafayette PF-200 & their dual-band ground-plane antenna at 40 feet.

KL 4315 and KLS 700, 166.250 MHz, WFBR radio Trafficopter and base.

Richard T. Colgan, WDX0AQW/5, B-9-C CollegeView, College Station, TX 77840 is a new member using a Midland 13-920 VHF/UHF and Realistic PRO-2 receivers with two portable tunable dual-band antennas.

<u>3-14:</u>	KKD 653	155.52	Corpus Christi, TX (police)
	KHB 41	162.55	Corpus Christi, TX (weather)
<u>4-11:</u>	KKA 521	37.10	Spencer, IA (police)
	-	37.10	Webster City, IA (police)
<u>4-20:</u>	KKF 975	155.61	Weatherford, TX (police)
	KQX 957	157.6	Dallas, TX

QSL's recently received from:

KAB 302	42.06	Jefferson City, MO (Highway Patrol, 3 kw; 11-9-70)
KHB 40	162.55	Galveston, TX (weather, 330 w)
KKE 498	153.89	Houston, TX (fire, 330 w)

Now, my loggings. Allied A-2586 for 30-50 with built-in whip and 30' of random indoor wire. Hi-band, wards 62-1 with 2' whip. CST used. Es unless noted; tr-trop; Spanish only if 40 or more; new underlined.

<u>4-13:</u>	1433, KFL 936 (Es?)	<u>27:</u>	0350, KHB 41 (tr)	<u>3:</u>	0005, KHB 41 (tr)
	1440, 42-Sp. (F2)	<u>28:</u>	0225, KHB 33 (tr)		0310, KHB 33 (tr)
<u>18:</u>	1500, <u>KGL 718</u> (F2)		2140, KSC 644	<u>5:</u>	1915, Long Beach
	1502, <u>KGL 712</u> (F2)	<u>30:</u>	0130, KHB 41 (tr)	<u>6:</u>	1330, 42-Sp. (F2)
<u>22:</u>	0025, <u>KHB 33</u> (tr)		1735, KIY 508	<u>7:</u>	1234, KIY 508
	1415, 42-Sp. (F2)		1739, KIQ 510		1243, KIM 905
<u>25:</u>	0125, KHB 41 (tr)	<u>5-2:</u>	1335, 45-Sp. (F2)	<u>9:</u>	1230, KOE 257

KGL 712	31.06	New York, NY-t	KIY 508	35.22	Orlando, FL
KGL 718	30.90	New York, NY-t	KOE 257	43.58	Phoenix, AZ
KHB 33	162.55	Brownsville, TX-w	KSC 644	43.58	Chicago, IL
KIM 905	35.22	Charlotte, NC	-	35.58	Long Beach, CA
KIQ 510	35.58	Jacksonville, FL			

t-transit, w-weather; rest are pagers; KFL 936 ID's by A2 tone.

73, Pat WA5IYX/5

CENTRAL TV DX

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

June 1971

Next Deadline: June 15

FOR TV-DX ENTHUSIASTS IN WI, IL, IN, MI, OH, PA AND EASTERN CANADIAN PROVINCES

At least at the midway point in May, this DX season is getting off to a very bad start in the Central region. If you've been watching and listening...you already know how bad things have been throughout the TV bands. There has been a near complete lack of Es activity...tropo has been little better.

Let's hope things have picked up by the time you read this! Maybe next month...more reporters will have something to report and the mail load will increase substantially in East Lansing!

Plans are underway for the 1971 WTFDA convention to be held in East Lansing, August 14 and 15. Hope you can make it! We'll have more in the Digest next month...

Now, let's get to those reports.

John Parillo, 400 S. Market St., Girard, Oh. 44420 (EST)

More on that Es opening of January 14 from John...plus "signs of spring".

1-14 Es 1746 WESH-2 Daytona Beach, Fl (850)	1-14 (cont.) Es 1800 WTVJ-4 Miami (1065)
1758 WEDU-3 Tampa, Fl (940)	1815 WPBT-2 Miami
1759 WDBO-6 Orlando, Fl (915)	1829 KPRC-2 Houston (1135)
WPTV-5 W. Palm Beach, Fl (1050)	3-13 Tr 1859 WNDU-16 South Bend, In. (300)
	4-18 Tr 0930 WLWI-13 Indianapolis (300)

(Those last two entries...so far apart...reflect the poor beginnings of the season John. I can see why your anxious to begin the Es season though...with all channels free! RB)

Charles Dobbins, 12851 Longacre, Detroit, Mi. 48227 (EST)

Chuck has done well with numerous early morning looks at MS...plus more "signs of spring".

3-30 Tr 2300 WFMJ-21 Youngstown, Oh 4444N (165)	4-27 (cont) Tr 0528 WLWD-2 Dayton 4434R (190)
4-1 Tr 0009 WSTV-9 Stuebenville, Oh 3343 N (195)	0548 WFBM-6 Indianapolis 3033R (245)
4-7 Tr 0558 WSBT-22 So. Bend 2044R (160)	0552 WISH-8 Indianapolis 2044R (245)
4-8 Tr 0553 WLWC-4 Columbus, Oh. 5545R (165)	0557 WLWC-4 Columbus, Oh. 2034R (160)
4-14 Tr 0547 KDKA-2 Pittsburg, Pa. 5545R (215)	4-28 MS 0511 WCBS-2 5545R (500)
0557 WLWC-4 5055R (165)	Tr 0516 WLWD-2 Dayton 3322R (190)
4-16 Tr 0545 KDKA-2 5445R (215)	4-30 MS 0554 WTVY-4 Dothan, Al. 4034N (795)
4-19 MS 0527 WCBS-2 New York City 3544R (500)	5-1 Tr 0542 WKBW-7 Buffalo 4344N (230)
4-20 Tr 2055 WGTE-30 Toledo, Oh. 4133N (60)	0600 WBEN-4 Buffalo 4444N (230)
4-21 MS 0507 WCBS-2 NYC 3343R (500)	5-3 MS 0515 WMAR-2 Baltimore 3022N (410)
4-26 MS 0509 WCBS-2 NYC 5545R (500)	Tr 0525 WLWD Dayton, Oh 4043R (190)
MS 0510 WLBZ-2 Bangor, Me. 4444N (725)	5-4 MS 0513 WSB-2 Atlanta 5555N (650)
4-27 MS 0517 WCBS-2 NYC 4454R (500)	0559 WWL-4 New Orleans 5054N (930)
Tr 0501 WGR-2 Buffalo, NY (230)	5-7 MS 0512 WSB-2 Atlanta 4344R
0518 KDKA-2 Pittsburg 3224R (215)	

William J. Draeb, Ellis St., R. R. #2, Kewaunee, Wi. 54216 (CST-CDT)

"I'm still waiting for the first Es opening of the season. I saw a few traces of skip but nothing strong at all."

4-13 Tr 0530 WBNS-10 Columbus (380)	4-18 (cont) Tr 1857 WGTE-30 Toledo
4-14 Tr 1645 WCAE-50 St. Johns, In (190)	WICS-20 Springfield, Il. (330)
W72AN Gary, In (WCAE) (200)	WUSI-16 Olney, Il. (400) 2055
4-15 Tr 0515 WJW-8 Cleveland (350)	WTIU-30 Bloomington, In. (360)
4-17 Tr 0700 WEEK-25 Peoria 0717 WMBD-31	W72AA, W75AE, W77AA all Iron Mt.,
Peoria (275)	Mi (100) W73AD Rhinelander, Wi
4-18 Tr 0630 WHIO-7 Dayton (snowfree at 360)	(110)
KHQA-7 Quincy, Il (370)	4-19 Tr 1845 WCAE-50 St. John, In (190)
0645 WLWI-13 Indy (275)	1855 W75AJ (WBAY) Fond du Lac,
0800 WANE-15, WKJG-33 Ft. Wayne (260)	Wi (70)
KDUB-40 Dubuque (160)	1918 WTIU-30 1928 W72AN
0808 WKEF-22 Dayton (360) WKYT-27	4-22 MS 0551 WLBZ-2 Bangor
Lexington (460)	4-23 MS 0507 WMAR-2, WCBS-2
0820 WXIX-19 Cincinnati (390)	5-1 MS 0550 WKTU-2 Utica, NY
0856 WLKY-32 Louisville (440)	0600 WMAR-2 Baltimore
0902 WPTA-21 Ft. Wayne (260) WLF1-18	5-2 MS 0643 CBOT-4 Ottawa, On
Lafayette, In (280) 0904 WMBD-31	5-4 MS 0610 CBOT-4 Ottawa
0917 WEEK-25 0920 WJJY-14 Jacksonville,	5-6 Tr 1830 WCAE-50, W72AN
Il. (360)	5-7 Tr 1630 WCAE-50 1925 W72AN (WCAE)
1005 WDRB-41 Louisville, Ky (In) (440)	W72AJ (WLUK), W74AN (WWTU), W76AI
WLEX-18 Lexington, WHAS-11 (through	(WLUC) all Escanaba (80)
WLUK-11!) WKRC-12 Cincy, WTHL-10	W75AE (WLUK) Iron Mt.
Terre Haute (340) WICD-15 Danville	1940 W72AA (WBAY) W77AA (WFRV) Iron
1810 WDHO-24 Toledo (270) WKNX-25 Saginaw	Mt.
(190) WVIZ-25 Cleveland (350)	1946 W83AN (WLUK) Stephanson, Mi.
1835 WBLG-62 Lexington WKPC-15	(50)
Louisville	2010 W75AJ (WBAY) W70AO (WISN)
	Fond du Lac

Am taking my new Zenith back to the shop for alignment...lots of adjacent channel slop, especially on high band. Am going to miss the UHF tuner...by the way, W72AA and W72AN appear to be 20 KHz apart, W72AA and W72AJ...10 KHz apart.

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

4-19 Tr 2215 WKEF-22 Dayton 2232R (220)	5-10 Tr 0658 WKON-52 Owenton, Ky 3445N
WOSU-34 Columbus 2224R (220)	(300)
2245 WBGU-70 Bowling Green, Oh 3345R	0700 WMUB-14 Oxford, Oh 3345N
(100) and rarely seen here	(220)
2343 WTVO-17, WJAN-17	0810 WCET-48 Cincinnati 3345N
4-20 Tr 0835 WKMR-38 Morehead, Ky 3345R (320)	(250)
	(WMUB w/ S/on, WKON w/S/on,
	WCET w/ MIHTP)

That's an example of a pretty shaky start to the Tropo season! A few over 200 mile Us are "regulars" in here...though often very, very weak, They're in 5 days out of 7. These include WSEE-35, WQLN-54 Erie at 220, WOSU-34 Columbus at 220, WURD-40 Indy at 225, WTVO-17 Rockford at 220 and KTRZ-34 Fond du Lac at 220. Strengths vary little from day to night, depending on the day and condx of course. Still no Es!

A couple of notes...too late for Gary's FCC column. WUHQ-41, Battle Creek, Mi should be on by now. They'll be operating with 3 megawatts plus and should be seen by many DXers. Wayne Plunkett forwards the news that a new channel 2 satellite of CKCO-13, Kitchener, On should be on very soon with full power! They'll be transmitting from the Georgian Bay area. 73s, Best DX. Rog

FM DX

Editor: Roger W. Winsor
718 N. Fremont
Valparaiso IN
46383

FM DX for June 1971

Robert Eddy Box 123 Newport, Ohio 45768

I've been a member of WTFDA since Nov. 69, and am just now getting around to sending FM a report. There's no excuse for waiting so long, except perhaps being too lazy. By way of introduction, I'm 24, single, and work for an electronics distributor in Marietta, Ohio. Newport is located along the Ohio River in SE Ohio, and is about 100 miles SE of Columbus. I've been DXing BCB, SWL, Amateur and occasional TV skip since 1960. Since May 70 I've been doing mostly FM. Total to date: 307 hrd; 26 states; Ontario and Cuba. I have 236 stations QSL'd and/or taped. Equipment here is a Heath AJ 29 tuner with AFC defeated, Channel Master Stereoprobe 9 antenna at 50' and a nuvistor preamp mounted under the antenna. Trops here still leave much to be desired, but are slowly improving. Some recent additions to the log: WBAG 93.9; WLPL 92.3; WEZK 97.5; WDRQ 93.1; WGPI 93.1; WAYZ 101.5; WWDC 101.1; WVCN 100.1; WWLV 100.9 and WMMR 105.5. This covers period 2/14 to 3/24. I promise not to wait as long before the next report. 73. (Welcome Robert, you have a great setup, and I hope to hear from you often this summer. RWW)

Joseph Fela, Jr. 150 Robert Place South Plainfield, N.J. 07080

With the arrival of Spring, it's time to send a report to Roger. This winter nothing worthwhile was heard although several call changes were noted. WWSH 106.1, WBLI 106.1 NY and WPLJ 95.5 NYC were the changed. I count call changes under a separate category, but they are not considered a new station here. To just ignore a call change doesn't make much sense to me. Up until the week of April 12, there was nothing to report. However the evenings of the 12th and 13th produced minor trops, such as WDVN 92.1 NJ, WCMC 100.7 NJ, WQRC 99.9 Mass and a few others of little consequence. April 14, though, produced some As with four stations IDed: The first was WOUB 91.3 Ohio at 5:24pm, then WFKU 88.9 Ky @5:42 and CKWW 88.7 Ont. @6:00. Later in the evening, at 9:36 WOOM 91.7 Mich was also IDed. In the past few months, several stations have decided to go AN, in addition to the long list I already have in that category. New AN operations include WFMZ 100.7 NSP, WCTO 94.3 NSP, and probably WNBC 97.1 AN5 or AN 6. In addition WTFM 103.5 and WRFM 105.1 went from AN 6 to NSP. WGPA 95.1 is now running to at least 0200 weeknights with a mx program sponsored by the Bethlehem HI, not the usual HI program, not yet. A few of schedules have also been lengthened, most notably WLIB 107.5 who went from a 12 hour day to 18 or 19 hours a day, and before I forget, WHVW 97.7 was another station running NSP for awhile, although I don't know if they are still doing it as of this moment. That's it. 73. (Tnx Joe, nice to meet you and all the NJ gang at Youngstown this Easter RWW)

Yee ed has nothing to report, as my stereo selector switch is shot, so no DX until \$\$\$ can be produced to fix the monster. Ah for a nice Heath AR 15 or 29 or something. New change here, WBBM is now NSP 96.3 and WXFM 105.9 is now AN 6. Hope that is permanent, as I have only 2 loggings there.

Bruce F. Elving 522 North 12 $\frac{1}{2}$ Avenue East, Duluth, MN 55805

Spring vacation up here coincided nicely with one of the finest April tropics openings ever observed in Duluth. April 18 brought in several from as far as Indianapolis (WGEE and WFBM), with WAUS 90.9 Berrien Springs and WMTE 97.7 Manistee, MI added to the log. Using my maps, I discovered the signal of the Greenfield, IN station on 99.5 giving local sponsors, but no call letters were received, so I'll save this one for the next such opening. Received earlier in the week were WMDR 96.9 Moline, IL, WMAD 106.3 Middleton, WI and KBEM 88.5 Minneapolis, MN. In December, the only station received during Christmas vacation was KCMT 100.7 Alexandria MN. Totals now 933 received in Duluth. Several stations were received with new call letters: WMVM ex WMIL, WRKR ex WRAC, WCIR ex WRJSV, WJVL ex WCLO and WDAI ex WIS FM.

Hank Holbrook 7211 Chestnut Street Chevy Chase, Maryland 20015

It's been about 4 months since I've mailed in a report on my FM activities. Actually though I do all my FM listening from our cottage on the Chesapeake Bay and have not been down there at all so far in '71. Though we do plan to start down again in May. In the past used to go down Friday or Saturday night and return the next day, even during the winter, but my new pasttime of bicycle riding has kept me most occupied even on the coldest of winter days. Purchased the bike in July, and to date have covered 4763 miles which represents about 350 hours of pedalling. Weight down from 185 to 136 and the doctor says this 42 year old is really in GREAT SHAPE HI! Back to FM: Stations logged and reported since last report: WLIF 101.9 Baltimore, MD ex WTOW on 12/28 1857 to 1920, local. WWSH 106.1 Philly also a local ex WQAL logged 12/28 1940 to 2005, verie letter back. 12/29 WVCD ex WAZL 97.9 Hazeltown, Pa logged 0600 to 0620, v1 back also. Veries received since last report WICO 94.3 vc, WDSO 94.7 v1, WAVT 101.9 v1, KQTY 101.3 PPC (prepared card) WQKW 96.7 v1 and WCAL 89.3 PPC. This was for their DX program of 8/12/69. This was after 7 followups (fup) and finally a phone call. Station is completely run by students and they don't get around to answering their mail. Very apologetic for the delay in answering. Veries now at 573 stations, 31 states, and from Ontario and Manitoba in Canada plus Bermuda, PR and Cuba. 73. Hank.

Richard D. Davidson 18 Pine Fork Dr. Toms River, N.J. 08753

This is the first time I have sent anything to your publication, so, needless to say, I'm not sure exactly what form to use or what exactly to send. So, anyway, here is a list of my FM stations received so far, from about 12/70. I hope that they will be useful. (Welcome to the FM section Richard. FM lists don't really serve much purpose here, although a list of all night stations in your area could be incorporated into the column. Reporting is just like in a letter, addressed to me at the address on page 1. When reporting any new stations, try to include some pertinent short details about reception, ie time, date and jingle, etc hrd. This will make it easier for other members to possibly identify the same station. I hope to hear from you often in the future. RWW)

Pat Dyer 327 Solar Drive San Antonio, Texas 78227

My Wards (Airline) 62 l with it's 2' whip has been really catching some wild tropo lately. CST used. New underlined. April 12: 0135 KIXL 104.5 Dallas (250); 0146 KBOX 100.3; 0157 WNOE 101.1 New Orleans (510); 0159 KFWT 102.1 Ft. Worth (245); 0400 KTAL 98.1 Texarkana (390); 0430 KNUS 98.7 Dallas; 0435 WMC 99.7 Memphis, TN (630); 0500 WAFB 98.1 Baton Rouge (450); 0530 WKYV 106.7 Vicksburg, MS (515); 0540 WHBQ 105.9 Memphis; 0543 KVIL 103.7 Dallas; 0555 KGAF 94.5 Gainesville, TX (310); 0617 KMAG Ft. Worth, AR (480); 0630 KINB 107.3 Poteau, OK (460); 0645 KCWM 99.6 Ft. Smith, AR; 0630 WSWG 99.1 Greenwood, MS (590); ~~My~~ ~~best~~ ~~loggings~~ from TN, MS, OK and AR. WMC my best tropo DX so far. 4/13 0158 KRID 92.5 Dallas; 0203 KBUY 93.9 Ft. Worth; 0300 WBAP 96.3 Dallas. 4/15 0255 KRID. 4/19 0139 WRR 101.1 Dallas, 0155 KVIL; 0157 KNUS. 4/20 1915 KVIL; 4/21 0033 KTAL; 0159 WRR. 4/22 0120 WBAP; 2300 KQXK 98.5 McAllen, TX (220); 2307 KFLT 94.5 Harlingen (215). 4/26 0230 KTAL; 0300 KVIL; 2303 WRR; 2317 KNUS; 2324 KRID; 2328 WBAP. 4/27 0048 KVIL; 0500 WAFB. 4/30 0135 KRID. 5/3 0200 WWL 101.9 New Orleans; 2100 KFMK 98.7 Houston; 2130 KUHF 88.7 Houston; 2358 KFLT. 5/4 0035 KRID; 0200 KFAD; 0258 WBAP; 0300 WFAA; 0315 KVIL. 5/6 2005 KQXX; 2330 KFLT; 2239 KPUP 97.7 Kingsville, TX (140). 5/7 0055 KVIL; 0100 WBAP; KRID; 0102 WRR; 0130 KNUS; 0200 KFAD, KBUY, WFAA; 0235 KOAS 105.3 Dallas; 0238 KNOK 107.5 Ft. Worth. Only relogs over 200 miles are given above. Station count now 78. Now if some Es will just show up. 73.

Joseph Fela, Jr. 150 Robert Place So. Plainfield, N.J. 07080

Just a short addition to my report. Regarding the schedule of WNBC 97.1, it is not set as of this writing. It seems to be constantly changing and now seems to be back to the former 0005 LT s/off, but the Sunday sked has been changed and $1\frac{1}{2}$ hours has been added. In another change, WNYC 93.9 recently went from a NSP schedule to a 7 AM to 9PM ckd. NYC's financial difficulties is the reason. This should open up some good DX possibilities here as 93.9 is almost vacant and 94.1 is totally vacant as WPNA 94.1 Philly has been silent for a year. Recent DX: May 3rd 0028 WDLC 96.7 NY hrd w/ET (also carried on the AM, 1490, which was not hrd here). 5/4 0010 s/off hrd from WKOK 94.1 Pa. Finally, WFIL is now WIOQ. 73.

Larry Vogt 8309 Greeley Blvd. Springfield, VA. 22152

Time EST, RX 500TX. Only logged 7 new stations in the first 4 months of 71. WDNC 105.1 Durham, NC was first @0515 on 1/11. On 3/18 @1900 hrd a tone on 89.5. It finally IDed with "This is BPED 1168 Hershey, PA signing off". Really wondered what I'd hrd until WITF 15kw stereo began broadcasting on 4/..Switched the FM4G to vertical about 4/10 and lost a lot of semi locals. Then on eve of 4/14 caught what seemed to be a real good auroral opening. It took quite awhile to get used to the grotesque audio distortion, but managed to log WMKY 90.3 Morehead, KY @1746 (new freq. QSL sez 50kw V & H), WEKU 88.9 Richmond, KY @1800, WLCC 88.9 in Lincoln, IL (new freq, QSL sez 4.6kw) @2005 and KXCV 90.5 Maryville, MO on since 1/16/71 w/100kw @2045. Could hear a few others, but just too weak and garbled. It was neat that the ones I did ID were new. 4/30 put beam back on H and installed a V dipole for Es. Also logged WESM 92.7 Prince Frederick, MD @1450 w/ET. They run 1.85kw, QSLs all in save WESM so far. Totals now 358 from 34 states, 2 Pr and 4 oys. Best of luck/DX.

Thomas J. Yingling, Jr., 221 Pinewood Rd. Baltimore, MD 21222

I'm new in reporting to the FM DX section of VUD, and am sending in a report and intro about myself to other FMDXers. I'm 21, single and work for the Social Security Administration here in Baltimore, and DX BCB, TV, FM and VHF FM. I use a Trik Stik for dipole antenna with Ameco Preamp lifier to my Allied 325 RX. Have DXed FM since Feb. '70 on/off, but now more seriously. Haven't yet hrd any Es, but waiting. WLPL went stereo 4/18, but doesn't sound like it. Old WTOW now is WLIF 102.1 stereo. WBMD 105.7 go stereo before September if all goes well. They changed music from rock to country. DXwise here is WSOC 103.7 4/11 and also heard WBT 107.9, WDBM 96.9 Statesville, WGNC 101.9 Gastonia NC. On 4/18 only one heard was WHKY 102.9 Hickory, NC. Totals now to 28 verified, 8 states with newest stations verified WIOV 105.1, WBT and WDBM. Well, that's all for now. If anybody would like to write to me, I will write back and talk DX. 73's and don't forget to DX. (Welcome Tom to VUD. Hope to hear from you regularly this summer. RWW)

Bob Hawkins 1515 Marlowe Avenue Cincinnati, Ohio 45224

Hi gang. I haven't written for some time, but feel it is time to fill you all in. The receiver is a Lafayette LT 425T wired to the IF strip of the AJ 15. The results of this are far superior to the AJ 15 alone due to the AJ's comparative lack of selectivity. Back on 2/4 logged 2 n3w local 10 watters WLMH 88.1 @1526 EST and WVXU 91.7 @1829. WVXU doesn't get out too well, WUOM is foten stronger. On 2/14 @1401 WIL0 Frankfort, IN. 2/15 WLSR 104.9 Lima, Ohio @0430. 2/18 brought WSEK 96.7 @0803 thru WPDE. 2/22 WWFZ @1430. I heard they were going to up their antenna height to about 900 feet and cut their ERP to 12kw. If so, no more overlodd from that pest. They are NSP. 3/5 WRSL 95.9 @ 0728. 4/4 WMKY 90.3 50kw Morehead, KY @2330. 4/11 WIFF 105.5 @2300. 4/12 WSPR 90.7 @0931. 4/18 brought a lovely opening to the north and west. WAWR 93.5 @0031, WZZM 95.7 @0034, WRBR 103.9 @0051, WHME 103.1 @0100, WNUR 89.3 @0159, WGIL 94.9 @0233, WJOL 96.7 @0235, WFMF 100.3 @0314, WDAI 94.7 @0318, WMVM 95.7 @0330, WLCC 88.9 @0947, WABD 107.9 @1328, I've been after that one for 1 1/2 years. WJIM 97.5 @1452, WFUR 102.9 @1502, WOOD @1512 almost as strong as WPFB 105.9, WVGR 104.1 @ 1600. On 5/4 noted call letter change of CKWW to CJOM 88.7, now RR format 24 hours. Everyone around here has changed things around tunerwise. I now have the lafayette and heath. My brother has Bill Bens old Fisher. Bill has a new Sansui receiver. My girlfriend is DXing with my brothers old AJ 15. Her name is Mary Zachary and she wants to join the club. Jim Cobble 4 houses down the street has an AJ 15 now, but I still have to align it to rid it of overload. Hear ye all DXers, if Andy Bolin tells you to get a JFD LPL FM 10A antenna do it! I did and this has to be the best FM antenna made. For example I get 24 hour copy on WBBG 98.7 Detroit w/local WAFB on 98.5 (50kw H and 27kwV) only 6 miles from me. It is amazing Andy, thanks! I am still on WAKY 93.3 on Saturday night from 9:30 to midnight EDST. We are on the air 0600 to 2300 except on Thursday and Saturday on to 0000. We added vertical polarization on 10/23/70 and Andy Bolin hears us a t least once a day, often more at 200 miles. If anyone hears my show, call collect 515 542 3442. I'll confirm it over the air. Well that's it for now. Happy listening to the Gospel Goodies on WAKW. Totals at 357 and rising. (Bob, who is Andy Bolin, and why not get all those people in Cincinnati to report to me. You don't have another AJ 15 laying around the house do you? I am in dire need of a good RX. RWW)

Fred Nordquist 302 Sandra Lane N. Syracuse, New York 13212

FM activity has increased with the addition of an AJ 15 to the DX equip. I'm quite impressed with it so far. Next step is to beef up the antenna system. Totals now up to 204 logged, 22 states plus DC and 69 NY stns. DX hrd since 4/19 AJ 15 in operation: Many Rochester and Buffalo stations static free, WDOK 102.1 Cleveland hrd frequently (300 mi), and CHFI, CKFM, CKDS and WHCU almost completely static free. Others heard are @ 5/1 WIGS 92.7 N Y w/Expo B B network ID @12:54PM, unnn WYSU 88.5 OH RR 5:16P. 5/2 unnn WHFM 98.9 now MPX, WRED 101.1 OH w/RR : "WHOT" IDs // to 1330 AM. Many IDs, logged to 6:33 PM and hrd several times since. 5/3 WEKT 98.3 Bath, N Y "Wine country" NX 7:12PM. (New station yes RWW). WRPI/WAMC/WGBH in w/good signals @7:30PM. 5/5 WHIM 94.1 RI (state #22) weak signal w/RI nx @11:35pm. 5/6 unnn WUOM 91.7 MI (385) w/MI nx @7:02pm. 5/8 some MS hrd 95.5 and 90.9 @12:30pm, and I thought I heard Urbana mentioned during one short burst on 90.9. WPAW will be taking over WONO 107.9 and will go to 24 hrs classical mx soon. WSEN 92.1 now has RR and CW formats. I wouldn't mind seeing somebody (e.g. Cooper or Howington) write an article in VUD on how to build a home brew FM yagi antenna w/multiple driven elements, rather than my going out and putting \$\$\$ into a commercial FM yagi. That's all for now. 73. (Fred, I am very interested in an AJ 15. I will be contacting you soon about it. RWW)

RussBrown 3274 So. Lake Chore Drive St. Joseph, MI 49085

Conditions have not been the best here, so no Es yet and tropo some what disappointing, however there has been a good deal of aurora. First of all, another call change, CKWW 88.7 Windsor, Ont. is now CJOM w/progressive rock format. Now to DX: 4/14 aurora noted around 1630 till past 2100, CFQR 92.5 Montreal PQ @1747 for a welcome new Province, KANU 91.5 Lawrence, KS @1759 w/nx by YL, several others but mostly just those regularly heard in IA, WI, IL or MO. 4/17 tropo quite strong to SE Ohio and KY outstanding 2300 to 0100 and on. 4/18 fair tropo mich of the day to IA WI MN, only one newbie WTCH 100.1 Shawano, WI finally caught @2330 s/off after having been on late w/Bucks BKB, KWVL \$ 107.9 outstanding @0100. 4/21 aurora again @1700, interesting to note there was also aurora on 4/21/70, KANU noted again @1750, KRNT 102.5 Des Moines, IA @1755, also aurora noted on 5/1 and 5/6, neither produced any IDs. 4/30 fair tropo between 0700 and 0830 WLEX 98.1 Lexington, KY, WLDR 101.9 WTCM 103.5 both Traverse City, WJML Petosky, MI among others. 5/5 fair tropo to NE IA and SW WI between 0700 and 0830, WSWW 99.3 Platteville, WI @0724, later that day tropo good to central WI. 5/6 tropo good to WI also OH in early AM & later. 5/7 0530 to 0630 fair to SW, KCFM 93.7 St. Louis better than usual. Hopefully soon there will be some Es, no sign of it at all here as of this date 5/8, till next time 73.

Roger W. Winsor 718 N. Fremont Road Valparaiso, Indiana 46383
Nothing new to report here, my RX is still sick, works only on AFC w/a matchbook stuck under the mode switch. Locally WAKE 105.5 changed to WLJE FM now, WBBM 96.3 is NSP now. I firmly believe that with increased sunspot activity, Es is down, as evidenced that Pat Dyer down in TX has not even seen much Es, but this is only my theory, such as it is. Nice column this month, keep those letters rolling in people. Bill Bens, where are you, Carlon Howington, Al Kopec and many others from last summer?????????????

Welcome once again to a quick tour through the WTFDA mailbag -- where we find out what everyone else is up to in the world of DX.

Lots of new members lately:

MAIL-
BAG

Randy Jackson, 3600 Ivanhoe St., Denver, Colo. 80207
Richard Browne, 130 Daryl Ave., Novato, Calif. 94947
Herman Sassen, 428 Summit St., Defiance, O. 43512
Roger Bortree, 747 J. Onondaga, Syracuse, NY 13204
John Matulay, Box 8161, International Airport, San Francisco, Calif.
Douglas Johnson, 2226 Durant Ave., #308, Berkeley, Calif. 94704
Emile R. Courcy, 15 Garfield St., Taunton, Mass. 02780
Michael J. Sweeney, 58-03 Calloway St., Apt. 6B, Corona, LI NY 11368
William McEachern, 904 N. Altadena, Royal Oak, Mich. 48067

Lots of our loyal followers have traveled the renewal trail:

Dave Cox	Robert H. Baker	Ron Le Blanc
V.H. Ronecker	Bill Matthews	Glen Neal
Don Richardson	Paul and Les Luechter	Paul Ciceri
Frank Aden	Frank Merrill	Bob Seybold
Bill Higley	Robert Zoller	Joe Sarf

Turning to news from the gang Jerry Dee apologizes for not reporting lately but says he "really" has been watching the tube. Although the off season "E's peak" was a flop(!) in Jerry's words, he's still got his 75-foot tower and 2-bay Vinegard antenna just dying to catch a few stray DX signals. Jerry also reports he's still working for KXEL in Waterloo -- requests for veries from KXEL-FM may be sent to him.

Bruce Metzner reports a double set of bad news. First, He's changed locations and is now on the bottom floor of a five floor building -- hardly ideal for TV and FM DXing. Secondly, his tower bent over in a big wind a couple of months bac, Thus, despite a new Sony St-5100 FM tuner as a recent addition, he's in doubt about how good things will be DX-wise in the coming months.

Another of DX-doms lost souls has found a home with WTFDA. Pat Connolly of Reseda, California, says "I am tired of having no one else to compare results and share information and techniques with. So I am very glad that I have discovered your organization. Maybe now I can find out what everyone else is doing, and how my accomplishments stack up with those of others." (Hope ybu'll be pleased Pat -- 200 TV/FM/VHF fans can't be wrong - hi!)

Mike Dorner of Metairie, Louisiana, is another of our "teacher corps" of DXers. Mike is a dyed-in-the-wool FM fan who got interested in the hobby accidentally (as most of us did to get our start in DXing) picking up DX stations on a portable radio. Right now he's making a systematic study of nightly DX conditions on his Heathkit AR-13-A.

Another plea for DX reports. Bill Jack of WPWT (FM) 91.7 in Philadelphia (educational radio from the Philadelphia Wireless Technical Institute) requests full reports -- as complete as possible-- to be sent to him at 1533 Pine St., Philadelphia, Pa. 19102. QSL cards or letters will be used for replies. The station operates 2:10 - 10 P.M. EST Monday thru Friday.

A number of our delegation have moved since our last summary. They include Peter Hobday to 120 Charlotte St., Canandaigua, NY. Russ Brown to ("Just down the street a piece" to 3274 South Lake Shore Dr. St. Joeseph, Mich., Mike Northam has moved to the big city of Portland; he's now at 1608 NE Knott St in that Oregon metropolis. Roy Barstow is now at Box 482, Teaticket, Mass. Long lost Frank Merrill Jr., has been found at 2501 1/2 Auburn St., Apt. 3, Toledo, Ohio. And last but not least -- Mike Bugaj has turned up at 1102 S. Pacific, Apt. 7, Santa Ana, Calif.

WESTERN TV

June 1971

Dennis Park Smith
450 Poplar Avenue
Wasco, California
93280 U.S.A.

Deadlines: 12th of each month

Western DXers are in good form, watching for DX at the start of the season during April and May. This observation has paid off with some good tropospheric and meteor-scatter catches—but where is the sporadic-E? Each Es date this time was noted by only one reporter at a time: April- 8 (Texas), 22 (Kansas), 24 (California); May- 7, 8, 9 (Oklahoma). It means the skip season hasn't yet gotten under way, reminding both Pat Dyer and your editor of late starts in the early 1960's.

For those trying to figure out Mexican DX, see Glenn Hauser's report, which includes program material plus additions and corrections to the Mexican station list.

Glen R. Neal, 1005 N. 5th, Sayre, Oklahoma 73662 (11-30 Apr) (CST, CDT 25 Apr on)

The big news this month is tropo bending. April 12, 18, 19 & 26 were 400+ miles. The 12th broke both my VHF & UHF distance records and added 2 states. MS was very good at times, though not always associated with a shower. A super-burst on 25th not only brought a new state but added three new stations to the log! E-skip—none seen here this month; in fact, it's been about three months since I last saw Es.

Apr 11 Tr 1015-1200 Improving in all directions. K76AU (KFDO-8) K78CM (KGNC-4) K80AT (KVII-7) Wheeler County TX (2145R40); K79## (KGNC-4) K81## (KVII-7) Cheyenne OK (2145R25). These translators are received almost all the time are are good tropo indicators for the west and northwest.

Apr 12 Tr 0532-0755 WFAA-8 KTVT 11 KDFW-4 WBAP-5 (5553R240), KLFY-10 Lafayette LA (5555R565) on @ 0532 when up, w/pgming in FF! KALB-5 Alexandria LA (5555R500) rarely logged—in solid for 2 hours! WJTV 12 WLBT 3 Jackson MS (4544NR575), WAFB-9 WBRZ 2 Baton Rouge LA (5555,3445R600)—WAFB all alone and snowfree! KATC 3 Lafayette LA (4543R560) KTBS-3 KTAL-6 KSLA-12 Shreveport LA (4553R385), KLTV 7 Tyler TX (4542R325) WDAM-7 Laurel MS (4543N660)—3 ch 7's hit air w/in 15 seconds of each other, 3rd yet unid; KNOE-8 Monroe LA (5553R480) KHOU-11 KTRK-13 Houston TX (5553,4555R460) KTHV 11 Little Rock AR (5553R415) WLOX-13 Biloxi MS (4544N690)—my most distant VHF, KLNI-15 Lafayette LA (5544N565). In June-1970 VUD Don Kuland reported KLNI "w/QRM"—I also noted +/- 40 kHz CCI(!) but I believe it was coming in at the NBC input of KLNI; turning the antenna, the CCI would fade along with KLNI. KHTV 39 Houston TX (3445R460) KHFI-42 Austin TX (3445R365), @ 0700 KCFT-33 Tuscaloosa AL (3535N710)—it was not "weak," very good at times, new state and most distant UHF & most distant tropo, period. No unusual translator activity the whole morning; by 0730, VHF too jammed to use, UHF starting to fade.

Apr 14 MS Good $\frac{1}{2}$ -sec burst on ch 12, + or - 10 kHz.

Apr 18 Tr 0700 The unid ch-2 translator reported last month turned out to be KMID 2 Midland TX (4444R270); the CATV ch 2 shifted in frequency by about 5 kHz, whose radiation now permits me to id all ch-2 offsets (+10, 0 & -10). 1130, KCBF-11 KLBK-13 KSEL-28 Lubbock TX (5555R165). PM tropo starting 2100: WOAI-4 KENS-5 KSAT-12 San Antonio TX (3443R425) KTBC-7 KHFI-42 Austin TX (3441,3445R365), @ 2200, new KLRN-9 San Antonio (4543N415). Looked for KWEX-41 KCEN-6 & KAVE-6 but nothing as usual. MS noted far above average.

Apr 19 Tr 0530-0800 With locals below average, KIII 3 KRIS-6 KZTV 10 Corpus Christi TX (3343R540)! K"LV"TV 7 good, KHOU-11 KTRK-13 KPRC-2 Houston (4443R460). WFAA-8 noted w/ + or - 10-kHz CCI, unid. PM tropo good to south.

MS: the Lyrids shower, btw 0533-0543, noted about 34 bursts; all unid.

Apr 21 Tr 0750 KERA-13 Dallas (3544R240) w/ custom color bars. MS: superburst at 1649, +/- 10 kHz ch 2, 0 or +10 ch 3 "55" for 40 secs; good bursts btw 1656-1700.

Apr 22 MS 0531-0552 Up for MS with poor results; no ids.

Apr 23 MS 2318-2338 Over 100 good bursts logged. No ids, but it's fun, anyway. At least 5 bursts per minute occurred.

Apr 25 MS 2205 t/in. Super-burst. Peffect chs 3 thru 6 (no 2), last apx $1\frac{1}{2}$ min. Ided via offsets & programming (ch 3 mentioned Aberdeen SD): KDLO-3 Florence SD (5513-N675) KFYR-5 Bismarck ND (5515N805) KPLO-6 Reliance SD (4413N600) + KXJB-4 in with mess. 3 new stations & 1 new state on 1 good burst! Tr: xltrs up slightly to west.

Apr 26 Tr Up 0734, to school 0854. Wildly strong signals from W, NW, NE & SE. KOAA-5 Pueblo CO (4442R340) KRDO-13 KKTU 11 Colorado Springs CO (4543R375); Colorado stations are rarely seen here because Gulf moisture hardly ever reaches that far NW. Irregular terrain also affects reception. K06DF (KFDA-10) Pampa TX (5555R65) 10 watts —too strong to be true but there it was! KTBC-7 (5555R365) KHFI-42 Austin good, KUHI-16 Joplin MO (3435R315), UHF xlters wild, but I got up too late to do much: K70CF (KGNC-4) K72CB (KFDA-10) K74BF (KVII-7) Higgins TX (4553R80), etc. There was at least one translator on every channel between 70 & 83! VHF xlters: K07FX (KOCO-5) K10FR (KWTU 9) K12GA (WKY-4) Gage OK (4553R80): K10FR was snowfree, fighting KFDA w/ ant NNE! All 3 xlters were apx 225 kHz offset one way or the other. I understand tolerance for xlters is .01%, while regular TV is much closer, 1 kHz. This explains the weird offset patterns observed during translator reception. Unid ch-7 xltr, NE, +/- 75 kHz.

Apr 28 Tr in morning improving. Afternoon, tropo even better.

Apr 29-30 Tr in AM & PM holding good. Can excellent tropo be far behind?

"A slow May 1-15, preceded by a slow or nonexistent April portends a bad summer for E-skip." Let's hope not. CUN31 with more 5555's.....

Randy Miltier, 882 Pine Ave., San José, California 95125 (1-30 Apr) (PST)

4-23 MS produced some excellent 3-5 sec. bursts on KATU 2 Portland OR tp 0608-06 0625 (tune-out). Test pattern is a DXer's delight, with a big "K2" on upper half and the call & location on lower half.

4-24: I'm interested to find out what skip produced in the West around 2030. I was visiting at some friends' house at that time. When I walked in, the tube was on and the local station, KPIX 5, was jumping all over the screen because of an E opening. My friend couldn't figure out what was going on so I tried to explain....as he turned off the set in disgust. I was sick the rest of the evening as this was the first real opening of the year out here.

Local KEMO-20 San Francisco is off the air due to financial problems. That's two U's down (KNEW-32 the other) and three to go around here. KUDO-38 may be next as their format and hours are really amazing; they are no longer listed in local TV Guide.

Les Prus, 1615 Pierre, Manhattan, Kansas 66502 (10-30 Apr) (CST)

10 MS 0509 WKYC- 3 Cleveland OH Vafi: 800mi (19) (Tr) 0635 KARD- 3 Wichita KS 4 100
19 Tr 0612 KWTU 9 Oklahoma City 3 250 0655 KUON-12 Lincoln NE 120
0620 WOW - 6 Omaha NE 3 150 21 Tr 0625 KOTV 6 Tulsa OK 2 215
0625 WFAA- 8 Dallas TX 2 445 0650 KWTU 9 Oklahoma City 2 260
0628 WTVT 11 Ft Worth TX 21 445 Not much to report but here it is.

VAFI for Dallas/Ft Worth was for best 15 seconds out of the 5 minutes or so I saw them. Rather poor opening—better than none, though! 73's.

Don Ruland, 2714 Stetson Lane, Houston, Texas 77043 (April) (CST)

8 Tr 0700 WJTV 12 Jackson MS Mi: 360 (11) (Tr) 0900 WDSU- 6 New Orleans LA 330
2050 WWOM-26 New Orleans LA 330 WWUE 8 New Orleans 330
2200 WYES-12 New Orleans 330 0700 KWEX-41 San Antonio TX 180
9 Tr 0545 WJHG- 7 Panama City FL 580 (very low power station)
0610 WLBT 3 Jackson MS 360 12 Tr 0600 KWTU 9 Oklahoma City OK 410
WJTV 12 Jackson 360 WKY - 4 Oklahoma City 410
0630 WDAM- 7 Hattiesburg MS 380 0550 WWL - 4 New Orleans 330
0650 WTWW 9 Tupelo MS 510 WDSU- 6 New Orleans 330
0800 WALA-10 Mobile AL 450 0545 WJTV 12 Jackson MS 360
WKRG- 5 Mobile 450 0610 WLBT 3 Jackson 360
0915 WAPT 16 Jackson 360 0615 KFDX- 3 Wichita Falls TX 330
0945 WMAA 29 Jackson 360 0610 KTUL- 8 Tulsa OK 450
11 Tr 0745 KSEL-28 Lubbock TX 450 0655 KATV 7 Little Rock AR 390
0750 KAPT 16 Jackson 360 23 Tr 0600 WBRZ 2 Baton Rouge LA 270
0730 KTXS-12 Sweetwater TX 340 (seconds before lcl KPRC-2 s/on)
KMOM- 9 Monahans TX 450 0615 WLBT 3 Jackson 360
0800 KRBC- 9 Abilene TX 310 (& other N.LA sta's lcl qual.)
New loggings are underlined. 0705 KATV 7 Little Rock AR (s/on) 270

Log is now 81 (71 VHF & 10 UHF). Still no Es seen since 11-8-70.

Robert J. Williams, PO Box 151, Blackfoot, Idaho 83221 (8Nov-5May) (MST; MDT 25 Apr on)
 Equipment: RCA 21" color, Airline B&W portable; 5-el. HP yagi-apx north, 5-el. ch-6 HP
 yagi-apx south (Pocatello), 5-el. VP yagi, 2 stacked 10-el. ch-11 yagis facing Twin
 Falls, 2 set-top boosters, tunable T-line trap, old homebuilt yagi & T-line dipole.

N8 Es 1905 XHCH- 2 Chihuahua Chih N Following received at new Twin Falls move:
 14 Tr 2136 KMTV 11 Twin Falls ID R 23 GW 1638 KTVB 7 Boise ID N
 (audio good at 2303) 2211 KBOI- 2 Boise N
 D4 Tr 2018 KMTV 11 Twin Falls R 26 Tr 0926 KID - 3 Idaho Falls (audio) N
 16 MS 0036 Unid 3 (weak horz bars) 427 Tr 2125 KTLF 6 Pocatello ID N
 Mar 9 Tr 0659 KMTV 11 (video, audio 0723) R May 5 GW 0929 KBOI- 2 Boise R

I have moved to Twin Falls; my new address is 251 6th Ave. E., Twin Falls, Idaho
 83301. Since moving, I have put up one HP yagi (it seems to be cut for more than one
 channel) and one VP single-channel yagi I built (the one used in Blackfoot). I get
 KBOI-2 & KTVB 7 on the HP plus a lot of leak off the cable on chs 2 thru 6. The ch-2
 radiation causes co-channel black bars on KBOI. The VP yagi really cuts down the cable
 strength, so I should be able to get Es this summer. 73's, and good DX.

Glenn Hauser, PSC Box 42309, Kelly AFB, Texas 78241 (9 Apr - 7 May) (CST)

Tropo DX from Mexico! It's sure a change after getting it by Es for years, though
 identification problems remain the same. For Las Lajas, gazateers show a couple dozen
 places by this name, all tiny. Most likely one, in Veracruz, is near Misantla, at
 19°58'N / 96°55'W; however, this still seems a bit far from Córdoba and Orizaba which
 those stations apparently serve. My 23-el. Archer Color Eagle is still inside my 2nd-
 floor apartment, and can only be rotated btw E & S. Am eagerly awaiting FINCO P7 UHF
 dish, on order, for outside mounting. Es is slow to start this season.

A12 Tr 0650 KGNS- 8 Laredo TX (s/on 0658) R130 (3) (Tr) 2350 XHAB 7 Matamoros Tams? 3225T250
 0700 WAFB- 9 Baton Rouge LA T450 (XEWnet//ch8, "24Horas" w/sgn 0057; off 0138)
 0722 WFAA- 8 Dallas TX N245 2355 XEW - 2 México DF? 3445T690
 0736 KERA-13 Dallas (tp) N255 ("24Horas" w/Wash. demonstration rpt;
 25 Tr 0037 KRCV- 5 Weslaco TX (s/off) N225 CCI de KPRC at first; 0010, 4May horo-
 0659 KPRC- 2 Houston TX 2454N180 scope; 0040 drama, 0138 off)
 26 Tr 2310 KGBT- 4 Harlingen (s/off) 3345N225 4 Tr 0001 XET - 6 Monterrey NL? ?345T280
 2317 XHAH- 8 Las Lajas Ver? Tent. 0022 XHD - 4 Tampico Tams 1222N495
 (SS audio w/VCI; 2333 "FBI"; non- (weak video; 0048 20kHz CCI w/ unid
 WFAA TP CCI) multiburst; 0055 audio //XEW-2)
 27 Tr 0558 KGNS- 8 Laredo (s/on) 5544R130 0453 WFAA- 8 Dallas (id) 4554R245
 M3 Tr 2303 KCEM- 6 Temple (s/off) FM? 3354N155 6 Tr 2322 XHAB? 7 (local ad in old movie T250
 2309 KRCV- 5 Weslaco (s/off) 5554R225 ment. "Golf de México" so a coastal stn.)
 2311 XHAJ- 5 Las Lajas Ver 3335T660 2340 XHAJ- 5 ("24Horas" //ch 2245T660
 (10kHz CCI w/KRCV, ie, XHAJ is even. Dubbed 2; at 0035, CCI, but from where?)
 "Run for Your Life," 0006, pgm summ & id, 7 Tr 0014 XHX -10 Monterrey NL 3333R280
 0011 s/off w/ animated "5", off) ("24 Horas" horoscope)
 2337 XH-- 9 Tampico Tams? 2424T495 0014 XHAJ-10 Las Lajas Ver? 2322T660
 ("Info. Nacional," not XEWnet, maybe (non-XEW net re boxing; 20 kHz CCI)
 TIM; 2352 gave phone 5-15-17-12) 0020 XELD- 7 Tampico Tams? 2445T495
 2340 KHOU-11 Houston (-45: s/off) 5555R180 ("24 Horas" (nominal length: 90min))
 2343 XHX -10 Monterrey NL 2135N280 0020 XHAH- 8 Lajas ("24Horas") 3333R660
 (0019//ch8-XEWnet; off 0139 after 2, 7, 8) 0028 XHTK-11 Ci Victoria Tams? 3021T390
 2349 XHAH- 8 Las Lajas Ver 3455N660 (20kHz CCI w/KHOU; the offset checks)
 (diag CCI at first; nx pgm "24 Horas" 0034 XEW - 2 (starting 2345T690
 de XEW; 0044 pgm preview & begin "Route "Route 66," nightly final feature missing
 66" //chs 2&10 & 0057//ch7. Of 7 & 8, from TVG. 0038 signals gone on 7, 8
 ch7 had better video mod. Off 0139) 11; very weak on 10. End of opening.

During first week in May, both KUHT 8 and KLRN-9 had annual auctions, often
 running well past local midnight.

Latest Medios Publicitarios Mexicanos states explicitly that XHGC-5, after 1 Dec.,
 is being relayed on both ch 5 and ch 6 from Las Lajas. Perhaps 6 is being phased out
 there. Nevertheless I may have seen XHGC-5 direct, since as yet there is no known
 east coastal relay of XEW-2 on ch 2.

A few other updates to last month's Mexican station list.... XHAW-12 is not TIM, but has some connection with XHDF-13. Telecadena Mexicana (TCM) and Televisión Independiente de México are now separate organizations—so, all those stations labeled TIM should be changed to TCM, except for the actual TIM-owned stations, XHTM-8, XET-6, XHP-3 and XHFM-2.... In the XEW-net list, there is now shown an XHI-5 Ciudad Obregón, Son; call conflicts with ch 2.... In the XHTV net list, add XHAL-4 Acapulco, Gro; XHBD-13 Aguascalientes, Ags (this conflicts with XEW-net XHAG-13 there); XHBQ-3 Zacatecas, Zac (call conflicts with ch 8 XEW net there); and XHZ-5 El Zamorano, Gro (elsewhere shown on ch 6). XHTV net chs 3,4,5,7,10,13 are "en cadena," i.e. live-interconnected.... I have searched for Paso de Cortés and Altzomoni but to no avail. Latest MPM reverses locations shown for XEQ-9 and XEX-7, conflicting with FBIS.... All stations shown in our list as "Projected for 1970" are now "Projected for 1971" except XHBP-7 & XHBB-20, which no longer appear. Power for XHDF-13 now shown as 190 kw antenna hts aat: XEWT-12 61 meters; XEHL-6, 97 m. No call is now shown for ch 12 Hermosillo—just "Tele-12".

Pat Dyer, 327 Solar Drive, San Antonio, Texas 78227 (9 Apr - 7 May) (CST)

Receiver: 1968 RCA color GJ721W. Antenna: Wards 11-el hi-low VHF, 15' up, fix-aimed SE.

12 Tr 0050 KDFW- 4 Dallas TX	240	26 Tr 2335 WFAA- 8 Dallas	215
KRGV- 5 Weslaco TX	215	0200 KHOU-11 Houston	185
0555 KTVE 10 El Dorado AR (new)	450	28 Tr 2059 KPRC- 2 Houston	185
WFAA- 8 Dallas	240	2100 KUHT 8 Houston	185
0600 WBAP- 5 Fort Worth TX	230	2310 KGBT- 4 Harlingen	215
WAFB- 9 Baton Rouge LA	450	29 Tr 2330 KHFI-42 Austin	85
0602 KSLA-12 Shreveport LA (new)	355	2340 KRGV- 5 Weslaco (over local)	251
KOSA- 7 Odessa TX	275	2345 KPRC- 2 Houston	185
13 Tr 0056 KTVT 11 Fort Worth	230	2359 KHOU-11 Houston	185
2330 KPRC- 2 Houston	185	KGBT- 4 Harlingen	215
14 Tr 0020 KHOU-11 Houston	185	M3 Tr 0000 KGBT- 4 Harlingen	215
18 Tr 0045 KRGV- 5 Weslaco	215	0005 KRGV- 5 Weslaco	215
20 Tr 2229 KHFI-42 Austin TX	85	0040 XHAI-10 Las Lajas Ver Mex.	485
21 Tr 0005 KLTV 7 Tyler TX	280	0055 XHX -10 Monterrey NL Mex.	270
KRGV- 5 Weslaco	215	XHAH- 8 Las Lajas Ver Mex.	485
0045 XHX -10 Monterrey NL Mex.	270	Unid. 4 Mexico (XEW net)	?
25 Tr 0045 KRGV- 5 Weslaco	215	XHAW-12 Monterrey NL Mex.	270
0200 KHOU-11 Houston	185	2210 KHFI-42 Austin	85
2300 KMOM- 9 Monahans TX (new)	295	2220 KHOU-11 Houston	185
Unid. 8 Mexico	?	2345 KUHT 8 Houston	185
2329 XET - 6 Monterrey NL Mex.	270	2350 XHGC- 5 Mexico City (tent.)	690
2340 KGBT- 4 Harlingen TX	215	4 Tr 0020 KTVT 11 Fort Worth	230
		7 Tr 0050 KHOU-11 Houston	185

The lack of any Es on the TV is ominous-looking to me. Not since 1962 (when I didn't expect it in May) has the season been this late in getting going. Some very brief Es on 50 MHz was noted April 9 & 28.

At least the trop has been better. The local 4 & 5 here have been nearly buried under them some late evenings. All my Mexico id's (and guesses) are with help of Glenn Hauser's May VUD list by using networks, etc. The XHGC logging may have been thru a relay station, but it was the call seen on Ch 5.

April 12 logging of Arkansas was a new state; total is now 54. 73, WA5IYX/5.

Dave Pomeroy, 8720 W. 80th St., Overland Park, Kansas 66204 (20 Apr - 7 May) (CST)

20 Tr 0515 KCAU- 9 Sioux City IA	4555R270 (20)(Tr)(0700)	KTEW 2 Tulsa OK	1223R225
0550 KWTW 9 Oklahoma City	3443R295	KUHI-16 Joplin MO	2445R130
0555 KFVS-12 Cape Girardeau MO	3433R305	0900 KPTS 8 Hutchinson KS	4344N225
0556 KMOX- 4 St Louis MO	1325R245	22 Es 0700 KTWO- 2 Casper WY	2312R650
0607 KHCA- 7 Hannibal MO	3444R175	Tr 0905 KIIN 12 Iowa City IA	3354N
0610 KYTV 3 Springfield MO	3544R150	0930 WJYJ-14 Jacksonville IL	4425R
0625 KTTS-10 Springfield MO	5555R150	VHO -13 Des Moines IA	5442R
0630 KTHV 11 Little Rock AR	1223R330	KRNT- 8 Des Moines	5444R
0700 KOTV 6 Tulsa OK	3344R225		

Bob Cooper, Jr., 2609 Chaucer Drive, Oklahoma City, Oklahoma 73120 (Apr- 9 May) (CDT?)

Apr 14: Oklahoma's contribution to the space effort alive and functioning. VHF array erected this date: Channel-Master 3617 (largest deep-deep-fringe all-ch. VHF), 72 f. up, fed with 3/4-in. aluminum coax. 1971 receiving system consists of 3 Conrac AV-12E receivers with companion monitors, and 15 channels of Interdigital Preampifiers rack-mounted. The system is all switchable from a custom control panel, i.e., select any receiver for any channel with any monitor so that 3 channels can be monitored simultaneously. Spasmodic (infrequent) use thru Apr 28 suggests low & high band range 250 miles under worst conditions, 300 mi. normally. Not bad for a flat-land suburbanite.

Apr 28: Finally got together enough strong people to erect the 7-ft UHF dish on top of the VHF array. Dish feeds into BT CMA-U preamp at tower top, into about 95 ft of 3/4-in. aluminum coax, and into reworked BTX-11A, then into 30-db-gain IPA post amp system. This system seems 3-6 db better than last year's; dead-band conditions are 250-300 mi (with addition of 2 Kansas City U's on scatter now). To the DX:

Apr 14 Aurora noted here on chs 2-3. No id's, natch; too darned far south.

Apr 25 Tr KHOU-11 Houston TX at 420 miles.

Apr 26 Tr KTHV 11 Little Rock AR, 305 mi. I am exactly 2.1 mi from antenna farms for local 4,5,9,13, but all adjacent channels are clear for DX. Also note KMXN 34 Lubbock TX (ex-KKBC-TV) back on regular schedule, essentially Spanish programming.

May 1 Tr KBMA-41 KCIT-50 Kansas City MO (300 mi) on bending.

May 2 Tr Unusual (for here) tropo duct into Colorado with KKTU 11 KRDO-13 Colorado Springs (463mi) plus closer KTVC 6 Kansas between 0830-1015.

May 3 Tr Under influence of high-pressure region, noted zero-beat CCI on KUHI-16 Joplin MO around 1922. At 2010 it stayed 'up' long enough to decide on direction: slightly south of east. Turned out to be WAPT 16 Jackson MS (473 mi), all by itself with scatter-type super-weak signal in a weak duct until 2315 or so. The stage was set, however. 2300 noted very up signals from KSLA-12 KPAL-6 KTBS-3 Shreveport (310 mi).

May 4 Tr Up at 0615 to find KSAT-12 San Antonio (420mi) on tp, snowfree. Noted KHFI-42 Austin (350) KRGV-5 Weslaco (650) over closer WBAP-5 & KENS-5, KZTV 10 KRIS-6 Corpus Christi (530) KCEN-6 Temple (310) KTBC-7 Austin (350) KHTV 39 KPRC-2 Houston (420) plus many others. I've left out occasional weak Es noted—no real Es openings caught here thru 4th; it appears somebody lost the key to the E machine.

May 6 Tr 0610-0730apx, KSD-5 KTVI 2 St Louis MO (457) KYTV 3 Springfield MO (280).

May 7 Es for brief periods in & out in AM & around noon, no id's.

MS 0621 WBAY-2 Green Bay WI. Es 1845-1849 WPBT 2 Miami FL briefly.

May 8 Tr 0630-0730 very light with KTHV 11 Little Rock (305) KRBC-9 Abilene TX (265) KLTU 7 Tyler TX (285) KCMO-5 Kansas City (297) best seen. Es 1735 tune-in to apx 1805, south from Mexico, ch 2, no id. 1735 on, exc tropo from Dallas.

1955 WAPT 16 Jackson MS (473) against KUHI-16 Joplin as tropo generally picked up. 2035 KTHV 11 Little Rock (305), 2230 KDNL-30 St Louis (458), 2332 WHBQ-13 Memphis TN (420), KLTU 7 Tyler TX at sign-off.

May 9 Tr 0000 KFVS-12 Cape Girardeau MO (452), 0038 KTTS-10 Springfield MO, 0600-0700 signals down with locally heavy thunderstorms. Es 1110 tune-in to apx 1150, XEW-2 Mexico City.

Odds and ends: KTEW (old KVOO-TV) 2 identifies aurally as "K-2," so watch mistaking this Tulsa station for KTWO-TV 2 Casper WY this summer (also KATU 2's visual "K 2" from Portland OR. dps) I've been told KFPW 40 Ft Smith Ar is ready to begin tests. They will probably affiliate with NBC.

Best of DX to all

Dennis

-0-0-0-0-0-0-0-0-0-0-0-

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TV FCC NEWS

GARY A. OLSON
1203 KENTON RD.
DEERFIELD, ILL.

For over three years yours truly has handled the FCC NEWS AND DATA TV section in your VHF-UHF Digest. Thanks to the help of many of you the column has been successful and beneficial judging by the various comments received at HQ.

Now it's time for your editor to move on and for someone else to try his hand at compiling all the figures pertaining to TV allocations. Charles Dobbins, who has handled the helm of the FCC NEWS AND DATA FM section for the past few months, will be your new editor for this page. As part of the switch in editors, FM fan Bruce Elving will take over the FCC FM column. Please continue to give these columns your full support for as we've said before your contribution may help many others pin down some new DX.

STATIONS OPERATING

New Stations Reported On The Air:

- WBTF (TV) ch. 45, Baltimore, MD. - took air April 11
- *WCPB (TV) ch. 28, Salisbury, Md., - took air Mar. 1971
- WCJB (TV) ch. 20, Gainesville, Fla. - took air Apr. 7
- *WNTJ (TV) ch. 52, Trenton, N.J. - took air Apr. 5
- *WVSN-TV, ch. 47, Norton, Va. - took air March 30

New Target Dates Reported:

- *WUNJ (TV) ch. 39, Wilmington, Del, - scheduled to take air in May or June 1971 (WUNC satellite)

Misc. Changes:

- WKTO-TV, ch. 50, Nashville, Tenn. - CP dismissed/delete call
- *Ch. 77, Montclair, NJ - application for new station changed to channel 50
- *Ch. 58, Los Angeles Calif (Comm TV of LA) application for new station dismissed
- WGNO-TV, ch. 38, New Orleans - cancel CP/delete call
- WNFA-TV, ch. 40, Tallahassee, Fla - cancel CP/delete call
- KKOG-TV, ch. 16, Ventura, Calif. - cancel CP/delete call
- KVVV-TV, Ch. 16, Galveston, TEX. - cancel CP/delete call
- KVIG-TV, Des Moines, Ia. - CP reinstated

FCC COMPLETED ACTION

New Grants:

- Texarkana, Tex., ch. 17 (Tex-Ark TV Co.) 234 kw.
- *Green Bay, Wis., ch. 38, (Ed.Com Bd.) 851 kw.
- *Annandale, Va., ch. 53 (N.Va. ETV) 724 kw.
- Orlando, Fla., ch. 35 (Sun World) 335 kw.
- Greenville, S.C., ch. 16 (Carolina Christian) 219 kw.

Call Letter Changes:

WIRL-TV, ch. 19, Peoria, Ill., to WRAU-TV (it's official now)

New Call Letters Issued:

- *ch.38, Green Bay, Wis., WPNE (TV)
- *ch.19, Biloxi, Miss., WMAH (TV)
- *ch.23, Greenwood, Miss., WMAO (TV)
- ch.17, Texarkana, Tex., KTKK (TV)
- *ch.22, Senatobia, Miss., WMAV (TV)
- *ch.9, College, Alas., KUAG (TV)
- *ch.17, Bude, Miss., WMAU (TV)
- *ch.14, Meridian, Miss., WMAJ (TV)
- *ch.53, Goldvein, Va., WNVV (TV)

Other Changes Allowed:

- WUFT (TV) ch. 5, Gainesville, Fla., ERP to 27.5 kw. *Thanks to: *
- WEZI (TV) ch. 21, Louisville, Ky., ERP to 1170 kw. * Rich Davidson *
- WTW (TV) ch. 9, Tupelo, Miss., ERP to 316 kw.-ant 1780' * John Pinckney *
- * Dave Egan *
- * Wm. Matthews *
- *for contributing this mo.*

EASTERN TV DX

Dave Pomeroy
KCSD-TV
1211 McGee St.
Kansas City, Mo. 64106

Deadline: June 11

1971 continues to be quite poor DX-wise and for the second month in a row only four Eastern TV-DXer's have sent in reports. The only bright spot for the second month in a row is Marrero, Louisiana where Ronald Le Blanc is having quite a time at the dials. Ron noted reportable tropo on 16 days since his last report. The only skip reported dates back to January and February. Still no Es here, but some improvement in trope reception. (See Western TV column).

David Long, 66 Beattie Avenue, Lockport New York, 14094 (EST/EDT)
3-27 0700 Tr WWJ-4 Detroit, MI 5-1 0626 Ms WWL-4 New Orleans (1100 mi.)
4-11 0830 WKBD-50 Detroit, MI 5-4 0610 WSB-2 Atlanta, GA (755)
0845 CKLW-9 Windsor, Ontario 0612 WBBM-2 Chicago, IL (475)
0900 WDHO-24 Toledo, OH 5-5 0614 UNID-6
4-12 0705 CJCH-13 Ottawa, Ontario 5-6 0645 Tr WRGB-6 Schenectady, N.Y.

Bob Seybold, Dunkirk, New York 14048 (EST)
11-30 Tropo on UHF to 400 miles: WBRE-28 WDAU-22 WSBT-22 WANE-15; VHF to 400
12-29 E-skip: KNOP-2 KETS-2 WLBT-3 WBRZ-2 WDIQ-2
1-11 E-skip: WBRZ-2 WLBT-3 KNOP-2
1-14 Tropo: Toledo, Detroit, South Bend on UHF
(Total now 492 stations, none new this time) (Nice to hear from you again.dp)

Joe Kureth, P.O. Box 572, Southern Pines, North Carolina 28387 (EST)
11-6 Tr 2330 WYAH-27 Portsmouth, VA 1-23 Tr 0105 WQXI-11 Atlanta, GA
12-4 0545 WMAL-7 Washington, DC 2-2 Es 1400 KRGV-5 Weslaco, TX
12-19 0830 WJRJ-17 Atlanta, GA 1400 KPRC-2 Houston, TX
12-31 2100 WOAY-4 Oak Hill, WV 1401 KIII-3 Corpus Christi
(KRGV-5 first Es over local WRAL-5)

Thomas J. Yingling, Jr., 221 Pinewood Road, Baltimore, Maryland 21222 (EST)
4-8 0610 Tr WTVD-11 Durham, NC 4-14 1945 Tr WUNG-58 Concord, NC
0730 WBWT-12 Richmond, VA 2000 WTVI-42 Charlotte, NC
0745 WGHP-8 High Point, NC 2020 WRET-36 Charlotte, NC
0750 WBTV-3 Charlotte, NC 4-21 0450 Ms WGR-2 Buffalo, NY
4-9 0545 WFMY-2 Greensboro, NC 0458 Tr WCBS-2 New York, NY
0555 WSPA-7 Spartanburg, SC 0530 WAVY-10 Portsmouth, VA
4-14 1930 WCCB-18 Charlotte, NC (Total now 58 in 19 states)

For DXer's in the following states:

ALABAMA	NEW HAMPSHIRE
CONNECTICUT	NEW JERSEY
DELAWARE	NEW YORK
FLORIDA	NORTH CAROLINA
GEORGIA	RHODE ISLAND
KENTUCKY	SOUTH CAROLINA
LOUISIANA	TENNESSEE
MAINE	VERMONT
MARYLAND	VIRGINIA
MASSACHUSETTS	WEST VIRGINIA
MISSISSIPPI	WASHINGTON, DC

Ronald J. Le Blanc, 2524 Arizona Drive, Marrero, Louisiana 70072 (CST/CDT)

4-12 Tr	2100 WKAB-32	Montgomery, AL	4455R	289 miles	
	2130 WIIQ-41	Demopolis, AL	4455R	220	
	2135 W70AH-70	Biloxi, MS	3455R	77	
	2145 WSRE-23	Pensacola, FL	4555R	183	
	2200 WDHN-18	Dothan, AL	3455R	305	
	2245 WCOV-20	Montgomery, AL	3455R	289	
	2300 WCJB-20	Gainesville, FL	3455R	472	
	2315 WBMG-42	Birmingham, AL	4455R	320	
4-21	2230 KETS-2	Little Rock, AK	2344R	350	
	2245 KTVE-10	El Dorado, AK	2342R	285	
	2330 KTHV-11	Little Rock, AK	2334R	350	
	2410 KPRC-2	Houston, TX	2344R	321	
	2415 KATV-7	Little Rock, AK	3355R	350	
	2430 WHBQ-13	Memphis, TN	3455R	366	
4-23	2100 UNID-7	Spanish	3332R		
4-24	2200 KRGV-5	Weslaco, TX	4443R	558	
	2300 KHTV-39	Houston, TX	4445R	321	
	2315 KHOU-11	Houston, TX	4445R	321	
	2330 KHFI-42	Austin, TX	3334R	460	
	2400 KTRK-13	Houston, TX	3342R	321	
	2415 KZTV-10	Corpus Christi	3343R	485	
	2425 KPRC-2	Houston, TX	3345R	321	
	2455 KIII-3	Corpus Christi	3334R	485	
	0100 KGBT-4	Harlingen, TX	3334R	541	
	0110 WOAI-4	San Antonio, TX	3355R	510	
	0130 KCEN-6	Temple, TX	3355R	441	
	0135 KBMT-12	Beaumont, TX	3344R	244	
	0145 WJTV-12	Jackson, MS	4455R	160	
	0150 WBRC-6	Birmingham, AL	3344R	320	
	0200 WFAA-8	Dallas, TX	3344R	485	
4-27	2300 WTOK-11	Meridian, MS	3345R	337	
	2330 WYEA-38	Columbus, GA	3345R	337	
	2335 WKAB-32	Montgomery, AL	4445R	289	
	2345 WDHN-18	Dothan, AL	3345R	305	
	2400 WCOV-20	Montgomery, AL	3345R	289	
	2450 WTVT-13	Tampa, FL	2345R	488	
	0110 WAPI-13	Birmingham, AL	2233R	320	
4-28	Caught up on sleep this evening. Checked set at 2300--re-run of the last four evenings.				
5-2	2200 KHOU-11	Houston, TX	3445R	321	
	2300 KHTV-39	Houston, TX	3445R	321	
	2315 KHFI-42	Austin, TX	4555R	460	
	2330 KTBC-7	Austin, TX	4454R	460	
	2340 KFDM-6	Beaumont, TX	3455R	244	
	2345 KBMT-12	Beaumont, TX	4554R	244	
	2355 KRGV-5	Weslaco, TX	3455R	558	
	2400 XHX-10	Monterrey, NL	4555R	700	
	0145 XET-5	Monterrey, NL	3455N	700	Station #163
	0130 XHDG-12	Monterrey, NL	3355N	700	#164
	0200 UNID-7	Spanish	2235		
5-4	2235 KHOU-11	Houston, TX	2224R	321	
	2240 KHTV-39	Houston, TX	2325R	321	
	2400 KPRC-2	Houston, TX	2345R	321	
5-5	2200 WTOG-44	Tampa, FL	5555R	488	
	2205 WJHG-7	Panama City, FL	4453R	275	

(continued on page 3)

Ronald J. Le Blanc(continued)

5-5 Tr	2215 WINK-11 Ft. Myers, FL	4455R	564 miles	
	2220 WLCY-10 Largo, FL	3343R	472	
	2330 WYEA-38 Columbus, GA	3345R	337	
	2335 WKAB-32 Montgomery, AL	3445R	289	
	2355 WTVM-9 Columbus, GA	3443R	337	
	2415 WSFA-12 Montgomery, AL	3344R	289	
	2440 WTVT-13 Tampa, FL	4455R	488	
	0110 WBRC-6 Birmingham, AL	3355R	320	
	0130 XHX-10 Monterrey, N.L.	2335R	700	
5-6	WHMA-40 Anniston, AL	4455R	337	
	0650 WBMG-42 Birmingham, AL	4455R	320	
	0655 WCOV-20 Montgomery, AL	5555R	289	
	0700 WJSP-28 Columbus, GA	4455N	337	Station #165
	0710 WCWB-41 Macon, GA	4455N	442	#166
	0720 WMSL-48 Decatur, AL	4555R	375	
	0745 WPLK-35 Columbia, SC	4555N	610	#167
	2100 WTOG-44 St. Petersburg, FL	4455R	488	
	2115 WLCY-10 Largo, FL	4443R	488	
	2225 WBBH-20 Ft. Myers, FL	3445N	564	#168
	2230 WTVM-9 Columbus, GA	3344R	337	
	2330 WKAB-32 Montgomery, AL	4455R	289	
	2340 WSFA-12 Montgomery, AL	4555R	289	
	2345 WTVT-13 Tampa, FL	3443R	488	
	2400 WYEA-38 Columbus, GA	3345R	337	
5-7	0630 WSFA-12 Montgomery, AL	3455R	289	
	0645 WTOC-11 Savannah, GA	3335N	564	#169
5-8	1945 UNID-10 Spanish--XHTV-4 network	5554		
	2000 UNID-5 Spanish	3243		
	2215 WTOG-44 Tampa, FL	4455R	488	
	2400 KHTV-39 Houston, TX	3345R	321	
	2425 KHFI-42 Austin, TX	3245R	460	
	2435 KTVE-10 El Dorado, AK	3245R	285	
	2440 KLRN-9 San Antonio, TX	3345R	510	
	2445 KHOU-11 Houston, TX	3445R	321	
	2450 WLCY-10 Largo, FL	3445R	488	
	0100 KPRC-2 Houston, TX	3445R	321	
	0130 KTBS-3 Shreveport, LA	2335R	289	
5-9	1230 KHOU-11 Houston, TX	3445R	321	
	2015 WTOG-44 Tampa, FL	4455R	488	
	2100 WLCY-10 Largo, FL	4443R	488	
	2200 WMFE-24 Orlando, FL	4455N	510	#170
	2220 WJCB-20 Gainesville, FL	3435R	472	
	2305 WFTV-9 Orlando, FL	3444R	510	
	2310 WFGA-12 Jacksonville, FL	3444N	503	#171
	2315 WJKS-17 Jacksonville, FL	3345N	503	#172
	2325 WJHG-7 Panama City, FL	3344R	275	
	2335 WDHN-18 Dothan, AL	3345R	305	
	0125 KTRK-13 Houston, TX	3345R	321	
	0130 WCAI-4 San Antonio, TX	3345R	510	
	0135 KPRC-2 Houston, TX	4445R	321	
5-10	0715 KLNI-15 Lafayette, LA	5555R	122	
	0740 WCJB-20 Gainesville, FL	3445R	472	

Other stations seen during period (April 12-May 11) are WEAR-3 KLFY-10 WEIQ-42
KATC-3 WDAM-7 WLOX-13 WTOK-11 KALB-5 WALA-10 WBRZ-2 WAFB-9 WKRC-5 WSRE-23 WMAA-29

EUROPEAN SCENE

Roger Bunney, Trelawne, Cupernham Lane, Romsey, Hants, SO5 8JH, England

Sunspot details for April:

1st	5th	8th	9th	13th	16th	17th	20th	23rd	24th	27th	30th	Next 6 months:
59		61	43		104	98	103	55	50	50	36	May 69
56			52			104			44			June 67
58			46			110			53			July 64
56			86			20th 103			27th 50			Aug. 61
65			100			98			49			Sept 59
58			113			82			48			Oct. 57
59			126			23rd 55			30th 36			

Smoothed mean for month: 70.7

The past few weeks up to the start of May have brought about an and increasing number of short burst type signals, and short duration Es signals.

April	3-1st Es opening	Sweden, E2, 4, NRK, E4; USSR, 01, 2; Czech, 01x2 Austria, E2a.
15 MS-W. Germany, E4	4	Es-Sweden, E2; E. & W. Germany, E4
16 MS-Sweden, E2; E. Germany, E4	5	Es-Czech, 01; Sweden, E2. Tr-BRT, E2
17 MS-Czech, 01; Sweden E2	6	Es-Czech, 01 Tr-BRT, E2
Es-East Germany, E4	7	Es opening-Czech, 01; Sweden, E2; TVE, E3 & unIDs.
18 Tr-BRT, E2	8	MS-Czech, 01. Es-ORF, E2a
21 Tr-ORTF, F12; BRT, E2	9	MS-ORF, E2a. Es-unID, E2, 3
22 Tr-BRT, E2	10	Es opening, which I missed.
24 Es-Swiss, E2 Tr-BRT, E2	11	Es opening-01x2, unID; Czech, 01; 02x2, unID. Tr-BRT, E2
25 Es-Sweden, E2 Tr-BRT, E2	12	Es-Sweden, E2. Tr-BRT, E2
28 Es-Swiss, E2	13	Es-Sweden, E2. Tr-BRT, E2
29 Tr-BRT, E2		
May		
1 Tr-BRT, E2		
2 Tr-BRT, E2 Es-NRK, E4		

The season has at last started, and the first opening brought a new pattern to our notice, used by Czech 01, actually floating with the other 01 Czech test card. The new pattern carries the ID 'CS U 01', and is similar to the DFF pattern, with a series of B/W squares near the bottom. An opening of the 11th May apparently brought a new type of USSR card, carrying the ID CCCP. Otherwise it appears from the sketch to hand to be basically similar to the 0249 type.

Michele Dolci, in Italy, has dropped me a line re the Yugoslav TV transmitter that is radiating programmes in Italian. Apparently, it's a 400kw, ch. 27 unit, at Nanos, and transmits both Yugoslav and Italian in colour. It covers a large part of the two countries, and along the Adriatic coast. Michele also told me that Italy has pirate transmitter problems as well. An Italian firm has built a network of relay stations in Northern Italy, reradiating the Swiss first programme on frequencies HF of Band 3 (hi-band) and in the UHF band. Recently the Carabinieri-the rural police (!) closed down one of these transmitters.

A contact in East Germany has written re problems with the colour service there. They use SECAM, for all of 6 hours a week, but he is thinking of buying a receiver if he can make another decoder to operate under PAL-D transmissions. (That's what most of W. Europe, save France use) About 90% of West German TV, which he can receive, are in colour. I have heard that dual-standard colour TVs, switching PAL/SECAM are available in Switzerland. However, as it is impossible to send details like this into the GDR, I think he's got problems.

ORTF have again been noted using 625 lines on Band 1, instead of their usual 819 lines. So far they have not yet responded to letters, altho it's speculated that they are testing for a possible change-over to this standard in Band 1 in the future, as Belgium has done.

COMMENTS REGARDING THE HEATHKIT AR15

By Bruce F. Elving

3000 North Oakland Avenue, Milwaukee WI 53211

As a satisfied user of a Fisher 500TX receiver, I have a few comments in response to Dave Janowiak's appraisal of this receiver against his Heathkit AR-15. I am inclined to agree with most of his observations, even to the point of admitting inferior sensitivity in the case of the 500TX. However, the conditions under which comparisons were made were not, in my opinion, fair to the 500TX because of the peculiar arrangement of lead-in and other wires at Dave's place. But any difference in sensitivity is slight, and more than compensated for by other factors -- such as antenna, location, and motivation to get the utmost in DX when it is available.

What Dave calls "gingerbread," I call highly important features. I use my receiver not only for DXing, but also as the basic hi fi instrument in my place. Accordingly, it is good to have front panel control of speakers so that every room in the apartment (including bathroom) has speakers that can be controlled from the receiver itself -- a feature missing in the AR-15. Pushbuttons are valuable -- and the Fisher (note the spelling, Dave!) has four of them -- in that buttons can be set for DX stations that are coming in now, enabling you to flick between one and another quickly, and maybe get two or three complete IDs during a break. The Autoscan is perhaps in the realm of gingerbread, but it's still fun to take a bath and set the dial on a station that signs off five minutes later and then have the receiver find the next station up the dial and tune it in perfectly -- sure beats putting together a kit yourself, in my estimation!

Carrying the argument further, Shelby Remington, New Haven CT, writes: "I wonder at the audacity and ignorance of those who are touting the AR-15 as the state-of-the-art in FM receivers, particularly the article by D. Janowiak in 3-71 VUD comparing the AR-15 to your Fisher. To include only Fisher and Heathkit is the height of ignorance. I have the Scott 312D-1 (though costing \$250 more than the AJ-15), which is used for monitoring and rebroadcasting at more high-quality FM stations than any other tuner. In addition, both Scott and SAE (and perhaps JVC Nivico) have announced the development of no-holds-barred FM tuners, featuring synthesized crystal frequency channelizing, phase-locked loops, etc. Also, Janowiak failed to include CU's statement saying the AR-15 is the most expensive receiver they've ever tested, which is an important qualification of their ratings. This, of course, leaves out the top-of-the-line Marantz, Sony, Panasonic, McIntosh, and other receivers which are the true engineering masterpieces. I recently directly compared a brand-new AJ-15 to my Scott, and the AJ had nothing over the Scott, while the Scott boasts unique features such as 'scope outputs, multipath meter, and multi-impedance outputs."

A complaint I have against both the 500TX and AR15 (and most other modern receivers) is the sluggishness of the dial operation. A night of DXing with the 500TX taxes one physically, and I am sure it imposes considerable wear on the dial string. My old 1956 model Harman-Kardon has a dial which can be spun effortlessly and cover almost the entire band with a light touch -- and this is a dial that I have re-strung many times myself.

There are new receivers coming out virtually every month -- and it would be exciting to try out all of them and see how they compare with the AR 15 and 500TX, as well as the Scott 312D. As more and more quality receivers incorporate crystal filters for top-notch selectivity, as well as other features, I am sure the number of highly-touted receivers in the DX fraternity will rise above one, two, or three -- depending upon how you presently define a top-notch receiver.

Finally, Allen Rockford, 505 Seeley Road, Syracuse NY 13224, writes: "I took great interest in your receiver comparison in the March and April VUD. Too bad no mention of tuners was made. One of the best available is the Sony 5000FW selling for \$450 (which I have). This tuner is almost perfect in calibration (something lacking in the Fisher 500TX; I'd say an artist designed the dial instead of an engineer--BE) and has the following specs (IHF): Usable sensitivity 1.5 μ v, image rejection 90 db, IF and spurious rejection

better than 100 db, alternate channel selectivity better than 90 db, capture ratio 1.0 db, AM suppression better than 65 db and SCA suppression 50 db."

Allen writes on: "This tuner which I've had for almost three years is an excellent DX unit, plus is excellent for approximately 125 to 150 mile normal range with my Finco FL5 antenna on a rotator. In DXing, I've received about 250 stations, but this is on a very limited time basis, not checking every hour to see what's coming in. I have about 28 states and Canada, all of which are on tape -- I have received more stations, but they are not on tape and I usually don't count them. I like to have an audio record of what I've received." The latter statement -- concerned with what a DXer demands of a station that he has received before counting it -- provides a natural lead-in to the following:

REACTIONS TO 'A DXING CONSTITUTION'

Several members had comments, pro and con, to the DXing Constitution that I (Bruce Elving) published in the April, 1971, VUD. Here they are:

Fred McCormack, Watertown SD, finds the Constitution "well defined, and the fact that you follow it in tabulating your station totals makes your huge number of FM station loggings all the more impressive. I am in basic agreement with it; however, there are two points with which I disagree. It is for this reason that I would not like to see this constitution as official club policy, but rather something DXers can voluntarily follow in their reporting. The first area in which I disagree is the counting of stations that change frequencies. I think this is most critical on TV frequencies where stations can change from low band VHF to high band VHF to UHF. These frequencies, of course, are spread over a wider range than FM, and possibly this rule could be written in two ways, one to permit counting changes of TV channels as stations and one to prohibit counting FM frequency changes (good point!-BE)."

The second area in which McCormack disagrees is "counting only stations which have been identified through hearing or seeing the call letters. I think there are occasions to count stations not id'ed in this manner if there is adequate proof," and he points out how his record-shattering 1100-mile logging of WKYT-27 Lexington KY did not involve a station ID but had two local commercials, which permitted verification. Also agreeing with this point of view is Glenn Hauser, who points out that "if on 94.3 one hears an ad for Americus Auto Transmissions, phone 834-9976, and this proves to be the actual number of such a company in Americus GA, but no WDEC-FM ID was heard, how could you possibly have any doubts that it was WDEC-FM? On the other hand, suppose WDEC is originating a sports event that is "networked," including a nearby 94.3 station, and they neglect to cut away during a WDEC-FM local ID. Then what are we to do? You see, even an ID isn't absolute proof. However, if you're going to stick with this ID business, your policy of a certain number of letters being heard seems reasonable." John Ebeling, however, feels that just hearing call letters should be sufficient, unless you are interested in writing for a verification -- in which case program information would be important. But Glenn points up a rare but possible hang-up in counting IDs, and DXers like John should be aware of numerous instances in which call letters of various stations are mentioned over networks as a matter of course.

Anybody comparing my Constitution and Glenn's, both published the same month, will note basic similarities in the two documents, except that Glenn likes to call his "guidelines." Glenn Hauser, Kelly AFB, Texas, continues: "I gather that you've tried to be as thorough as possible, and I for one can't think of any major topic you have omitted." Specifically, A1s2, "I suppose choosing the distance is pretty arbitrary, but I prefer my method. A quick computation shows your system consists of about 2800 sq. mi., whereas mine is only 1075, so mine is more restrictive!

Trouble is in defining home and remote, or old and new. Some DXers may be alternatively active from two locations, or even three. Ais3 seems to overlook the possibility that while his 'own' rx is down, a DXer might borrow another receiver--such DX should count. . . In sec. 5e, I'm glad you concede to a 'feeling by the DXer.' I believe these 'feelings' should have wider acceptability than you give them. A 4 week time limit is no good. The tape will last forever; various problems may preclude this." Furthermore, Glenn disagrees with me concerning stations changing channels, transmitter locations and city of license, preferring a more "liberal" policy, although he would allow a compromise "to allow counting as new if the station changes from Class A to B/C, etc. . . I suggest also that we allow counting by precise transmitter location (rather than city of license) where known (which information is harder to come by in the case of FM than TV). . ." and Glenn would not throw out "tentative" loggings.

Commenting about in the same vein, John Ebeling, a Minnesota FM DXer since 1948 (beating me by a few months!) agrees with the concept of counting as heard any DX claimed within 24 hours and underlining it in a radio log or similar place. To Sec. 5d, John would add the phrase "foreign station other than Canadian that does..! Since U. S. and Canada stations normally employ call letters, this could be a loop-hole for some U. S. people to count Canadian only by hearing province or city given. Sec.5e. Tape identification within 4 weeks imposes undue hardship on a person trying to locate a person fluent in the language . . . maybe 3 months instead, since a tape may have to be sent out of town. Many years ago I recall I had Jim Cumble of Texas identify my tape of XET-FM in Spanish. It took longer than 4 weeks. In Sec. 7c is where I do not agree with your constitution. I subscribe to the group that says new freq., different set of conditions for reception, hence new station to be counted. . . Since you feel strongly the other way, maybe we should have a membership vote on the matter."

Finally, concerning Article II, section I, John writes: "I think this is a very good section. I never could see how so many fellows (especially in TV reports) could have loggings listed as 'tentative.' In my opinion, either the station is identifiable by audio (or video) or it isn't. Should be a clear-cut case of either it is identified or not, and if not, try again some other time (Amen-BE)."

Peter Hobday from New York state says that he has followed similar guidelines during his DXing. "I have not been as stringent in considering a station verified. However, I shall start a new log and adopt the constitution. My log so far has been just a listing of stations received, but I gather from the constitution that a log should list more."

Jim Hayes, Wilkes-Barre PA, writes: "after examining and thinking over your constitution I've come to the conclusion that you have some very good points and some non-essential points. Art. I, Sec. 4 and 5 part e and Art. II, Sec. 1 all establish a definite time limit as to when a report of a station can count. I do not see why one could not write stations in one's log that he heard 48 hours or so ago or why an uninterpreted tape becomes invalid after a month. I think all time limits should rest in the DXer's ability to remember what stations he has logged." (But, I maintain that memories fade, and even with the benefit of ancient tapes, the temptation may be great to claim as a DX catch something a DXer has neglected to count from years before. Time should be taken immediately after a DXing session to go over one's notes and tapes to ascertain just exactly what was received, and with, preferably, no reliance on so-called "tentative" loggings. Such a procedure, cautious, conservative and restrictive as it may appear, is the only route to a truly impeccable and unimpeachable station list.-BE) Hayes concludes: "A point that I think is very useful is the established 30 mile limit in which one's log can benefit. I often had questions about the validity of stations logged 10 miles east of Wilkes-Barre, but according to this I guess I'm in the safety zone!" (Right on!) And that's the Constitutional discussion for this month!

DX From Space

Last April the results of a study prepared by the French television authority and the space agency of France revealed that around 1980, France may begin direct satellite broadcasting. Coinciding with the start of a fourth French television network and the filling of France's UHF channels, a 300+ pound satellite carrying two 500 watt repeaters would beam two programs either directly to viewers antennas or to CATV systems. Signals would be transmitted in the 12 gigahertz band.

The 12 GHz band also may become a direct satellite-to-viewer band in the US. The Communications Satellite Corporation (COMSTAT) has submitted a proposal to the FCC to allocate that band for direct satellite-to-viewer broadcasting. Worldwide interest in this project continues to mount despite reports that rain and high humidity noticeably reduce reception quality in this range.

This proposal and others will be discussed at the sixth World Administrative Conference in Geneva this month.

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The National Weather Service is very interested in testing a tornado and storm detection system invented by researcher Newton Weller of Des Moines Iowa. The system (which has been described in a past VUD) detects the presence of tornados and lightning by detecting the electrical energy produced. The NWS is inviting viewers to act as volunteer storm spotters for this test. Details on how the system works can be obtained from Mr. Well at Rt. 1, W. Des Moines, IA 50265. For details of the test, write: Karl R. Johannessen, Assoc. Director, National Weather Service, Silver Spring, MD 20910

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In 1972, Panasonic will become the first Japanese Electronics firm to market an "assembled-in-US" Japan-made color television. The 21" set will be assembled at Panasonic's Puerto Rico factory, will use RCA CRT and will list out at \$459.95.

With low cost labor, exemption from US Federal Taxes, and other benefits, a number of US firms are eyeing Puerto Rico as well.

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While some US electronics manufacturers are boasting that their best TV receivers are almost entirely transistorized (some "solid state" sets have 4 or more tubes) the TV manufacturers of Japan are advancing largely to integrated circuitry.

Toshiba seems to be leading the way with about 75% of their newest sets transistors replaced by IC's. Until the bulk of the US manufacturers reach the level of their competition from the Orient, the reduced costs made possible with IC's may hold the price of imported TV sets at their present competitive low level, in spite of proposed import tariffs.

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A new type videotape has reportedly been developed by Graham Magnetics Inc., which potentially could have some design shattering effects on the budding home VTR market. The new tape, which is coated with a cobalt alloy (not oxide), is said to allow 4-5 times more playing time than conventional tape with equal, if not improved, quality. VTR units suitable for Grahams new tape may not appear for 2 years, however.

ABBREVIATION LIST

INTRODUCTION

This abbreviation list cross-references possible abbreviations, slang, and accepted short-word descriptions with more lengthy word description. The list does not force (or even suggest) that these are the only ways to abbreviate, for example, given terms. Indeed, unique use of capital and small letters, periods, slashes (/), appostrophes ('), etc., could have been used to cover quite well virtually all word descriptions in our hobby. The list is a guide only, not a pair of crutches.

Many thanks to contributors Morrie Goldman, Bob Cooper, etc. Their efforts formed the nucleus of the list along with my additions, organization, and editing.

Two last items: I do not contend that you will find every possible abbreviation here. Paging through the dictionary to locate more words often abbreviated is not my bag. Also, since several abbreviations and terms were "dreamt up" by all contributors, some disagreement is likely.

<u>ABBREV. OR TERM</u>	<u>DESCRIPTION</u>
A	audio
AAT	above average terrain
AC	alternating current
ACI	adjacent channel interference
AD	advertisement
ADR	address
AFC	automatic frequency control
AFT	automatic fine tuning
AG	above ground (antenna height)
AGC	automatic gain control
AIPA	American Ionospheric Propagation Association (defunct TV DX club)
AM	after midnight, before noon; amplitude modulation
AMP	ampere
AN	all night
ANARC	Association of North American Radio Clubs.
AN6	all night, 6 days/week
AN7	all night, 7 days/week
ANN	annoucement, announced
ANCR	announcer
ANT	antenna
AP	Associated Press
AR, As	aurora skip
ARES	aurora E skip
ASL	above sea level
ATT	attenuation, attenuator
AUD	audio
BB	baseball
BBC	British Broadcasting Co.
BC, BCD	broadcast
BCB	broadcast band
BD	band
BE	Broadcast Engineering
BGM	background music
BK	break
BKB	basketball
BLC	blank carrier
BP	bar test pattern
BPF	bandpass filter
BST	meteor burst 1 to 2 seconds, useful copy
BT	Blonder Tongue (manufacturer)
BTP	bullseye test pattern

ANARC CONVENTION: JULY 23-25.

DON'T FORGET TO MAKE PLANS FOR THE ANARC CONVENTION AT THE AT THE HOLIDAY INN-AIRPORT AT INDIANAPOLIS FRIDAY THRU SUNDAY. CO-HOSTS WILL BE KRIS LEMNA AND SERGE NEUMANN WHO ARE PREPARING A BIG WING DING FOR ALL DXERS WHETHER AFFILIATED WITH ANARC CLUBS OR NOT. SO COME ONE, COME ALL TO INDPLS.

HOLIDAY INN RATES WILL BE \$15 SINGLE TO \$20 DOUBLE. A CONVENTION MEETING ROOM WILL BE PROVIDED TO ACCOMODATE UP TO 100 GUESTS. A COURTESY CAR WILL BE FURNISHED FROM THE AIRPORT WHICH IS ACROSS THE PARKING LOT. SEE YOU THERE?

BW, B & W	black and white; monochrome
BX	boxing match
C	color
CAP	capacitor, capacitance
CATV	community antenna TV
CB	citizens band
CC	closed circuit
CCI	co-channel interference
CCI-0	co-channel interference, zero beat
CCI-10	co-channel interference, 10,000 hertz offset
CCI-20	co-channel interference, 20,000 hertz offset
CCTV	closed circuit TV
CE	chief engineer
CH	channel
CL	call letters
CM	Channel Masters (manu.); cross modulation
COAX	coaxial cable
COM	community announcement
CP	construction permit; circular polarization
CPS	cycles per second (old term, use hertz)
CTR	contrast
CW	continuous wave
C/W	country and western music
CX	conditions
D	diode
DB	decibel
DBG	Decibels of gain
DBL	decibels of loss
DBM	decibels per meter
DC	direct current
DE	director of engineering
DISH	parabolic reflector antenna (slang)
DJ	disc jockey
DP	dipole antenna
DX	station reception not normally heard or seen
ED	editor
EE	double hop E skip; electrical engineer
EEE	triple hop E skip
ET	Electronics Illustrated (mag.)
ES, Es	sporadic E skip
EV	Electro Voice (manu)
EW	Electronics World (mag.)
FB	football
F/B ratio	front to back ratio (for antenna)
FLEED	point where T-line connects; actual transmission line (slang)
FET	field effect transistor
F, FQ	frequency
FM	frequency modulation
FRONT END	tuner (RF plus MIXER/OSCILLATOR unit in a receiver)
FS	French speaking; forward scatter
F/S ratio	front to side ratio (for antenna)
F2	F2 ionospheric level
G	ground
GE	General Electric (manu.)
GM	General Manager
GP	ground plane
GW	ground wave
HAM	radio amateur
HB	high band TV (channels 7 to 13, 174 to 216 MHz in US)
HF	high frequency

BOB'S TECKNOTES

BOB'S TECK NOTES

June 1971

Page One

SIX MONTH PROPAGATION TABLE

July 1 to December 31

During the last six months or so of the 1969 DX season, and into the first half of the 1970 DX season we ran a monthly Propagation Column aimed at pin-pointing the most likely forms of DX for each monthly period. A number of factors forced the cancellation of this monthly feature; lack of membership interest was not one of these factors.

What follows is intended as a six month reference for the last half of this year (or any year), to be tacked up where it can be checked on from time to time to remind you of just what types of DX you should be looking for, and when, during this six month period. This table is a composite of several sources, including reference texts on meteor showers, and more than two decades of TV and FM DXing. It is meant to be as all-inclusive as possible, but please keep in mind that ALL forms of tropo and Es DX are unusual and that they may therefore occur at ANY time of the year, month or day.

Even with elaborate monitoring equipment, it is seldom practical to "forecast" Es DX more than an hour or so ahead of time. Of all of the DX forms we enjoy, Es is without a doubt the most un-predictable. Tropo, on the other hand, "telegraphs" its presence hours or days in advance; and this is especially true during the so-called "off" season periods. During the "in-season" tropo periods, i.e. the warm months, the weather conditions that go hand in hand with tropo DX sessions are often only barely different (from our surface observation points) from similar weather that fails to produce tropo DX.

During the "off season" periods, tropo DX occurs almost exclusively when there is "unusual weather"; i.e. sudden days of warm spring like conditions right in the middle of winter for example. However, because the "normal weather patterns" in North Dakota are totally dis-similar to the "normal weather patterns" in Texas or Florida, a blanket statement of what is unusual for one area cannot be applied to another. Each DX'er in each locale will have to do his own comparative studies to arrive at his own conclusions. Once this is done, you can easily spot off-season tropo DX "coming" a day or two in advance of the actual conditions.

The table that follows is not as detailed as the monthly propagation columns, simply because space will not allow such elaboration. It is sufficiently detailed, however, to be of considerable use to both the new DX fan and the old timer at the dial spinning game. In the Meteor Shower (MS DX) area in particular most of the minor (not very productive) showers have been eliminated from the listing.

Each month begins with a general summary of the types of DX that period is noted for, and where (i.e. what regions of North America) this DX is most likely to occur. This six month table begins with July 1, since we are nearly into July now. At a later date, the first six months of the year will be similarly detailed so that a complete composite of the entire year is available.

Six Month Propagation - continued

JULY

The month of July is usually either the best all around DX month or the second best all around DX month of the year. Between summertime Es and mid-summer tropo, DX'ers north of a line from San Francisco to Norfolk (Va.) often find this is the peak period of the year when more DX occurs than during any similar 30-31 day period. Typically, some form of DX is observed almost everyday in July by more northern DX'ers; and it isn't bad elsewhere either!

Tropo - Because tropo depends entirely upon weather conditions, and boundary lines in the weather fronts, the south and southwest seldom fare well in July, after the 10th of the month. Typically, this is the hot and dry or just plain hot (stagnant) period of the year south of the Mason/Dixon line and day after day of hot /hot-dry weather do not produce tropo.

Further north it is hot also. But cooler air masses from Canada are still sneaking down into the Great Lakes region, and when one of these overrides hotter air, tropo DX abounds.

Virtually all areas of the country enjoy improved early morning tropo in the 200-300 mile ranges during July.

However, if it turns "unseasonably cold" south of the Mason/Dixon line, watch out down there. Tropo is very likely!

Es - There is a gradual transistion in Es during the first week in July, from the June type of sudden-developing strong Es with heavy violent fading to the slow building, slow fading form of July; and this affects the entire continent. Late evening Es is more likely in July than June as a rule. Between the 21st and 31st there are usually one-three days of bang up first class daytime Es starting around 8-10 AM local time; typically the last of the good Es for the summer season. This type of opening, starting in mid morning, often comes and goes all day long into the evening hours.

MS - Good July dates follow: NCTE - (a) means 5-7 AM period, (b) means 5-9 AM period, (c) means 5-11 AM period, (d) means 9 PM-midnight period, (e) means midnight-3 AM period.

July - 5 (b), 9 (b), 14 (b), 22 (a) (e), 24/25 (a) (e), 26/27/28/30/31 (a) (e)

AUGUST

August provides a quick transition for Es fans, from virtually daily openings of some type during much of June and July, to catch as catch can August openings. The first ten days of August will produce a combination of June and July openings most years; but not always. After the 10th Es is limited to mid morning and late afternoon breaks usually occurring over the southwestern USA and from the mid-south south into Mexico. Early August is much like most of July for tropo, but by the end of the month tropo spreads south also. And MS peaks in August during the Perseids shower.

Six Month Propagation - continued

Tropo - As the "storm track" out of Canada begins to dip further south in August (usually after the 15th) the hot or hot/dry season south of the Mason Dixon line begins to taper off. With the cooling comes much improved tropo conditions for the area, and an opportunity for more southern DX'ers to get in on the July type of tropo that the more northern DX(ers have been enjoying. Traditionally, after the 20th of August DX'ers in southern Kansas, Oklahoma, north Texas, Arkansas, northern Louisiana, northern Alabama and northern Georgia begin to find breaks to the north and northeast directions in the early morning (5-8 AM) and early evening (6-9 PM) periods, on an almost daily basis. Distances are usually under 500 miles except when a major weather front is ap-setting things.

By late in August the tropical storm tracks out of the Caribbean are also bringing heavy amounts of moist air north and while they may make life miserable for Gulf Coast DX'ers directly, in-directly the further penetration of these huge amounts of moist air north often livens up DX (tropo) for many other DX'ers.

Once again, "unseasonal" or "unusual" weather is the key to watch for, regardless of where you live.

Es - The first ten days of August tend to be like the month of July, and may produce (as in 1970) one or two very good Es sessions. If this happens, these are usually mid-morning start-up sessions that peter out by noon or so. After the 10th or so it is catch as catch can, usually confined to mid and late afternoon sessions over the southwest and northern Mexico.

MS - Good August dates follow, using the same keying as in July. Note that annually the Perseids Meteor Shower hits from the 9th to the 14th and it is a dandy: 1 (b), 2 (b), 4 (b), 8/9/10 (b), 11/12/13/14 (c), 17 (a), 22 (b), 27 (a).

SEPTEMBER

September is often tagged the BIG tropo month. When September is good, it is very good. When it is bad, it is usually very bad. Ie., not all Septembers are good. Some Es is still likely, and there are a couple of MS dates worth noting.

Tropo - By the 10th of September, we are out of the August storm tracks and what we start to look for is one of two things: (A) Either a large slow moving high pressure area that stagnates over the Indiana/Ohio/Kentucky region and extends west to the plains and east to the coast, or, (B) a wet, moist unseasonably cool air mass that settles in about the same region or a little further west and south (such as September 18-20th 1970). Whatever happens, it will be best for DX'ers located east of a line running from Amarillo north to Bismark, and north of a slanted line running from Dallas to the Virginia/North Carolina border.

Six Month Propagation - continued

OR, it will center over Virginia and be best for DX'ers east of a line from about Indianapolis to Atlanta. This is the type of tropo opening that you can see coming, and it will usually be evident by 7-9 PM in your area, and continue through the wee hours of the morning into the next day, perhaps tapering off by 9 AM, and then coming back again the next evening.

Es - Don't write off Es in September. The first seven days almost always produce at least one good opening between 4 and 8 PM local time, although it may be centered so that only southern, southwestern and western DX'ers get in on it. After this first week session, we usually have to have pronounced AURORAL conditions before additional Es sessions will occur. Auroral type Es are associated with magnetic storms occurring on the sun's surface, and usually occur only over the more northern USA and southern Canada, on east/west paths, centered around 9 PM local time.

MS - Good September dates follow; using the same keying as with July. 11 (b), 16 (a), 21/22 (a), 27 (a).

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OCTOBER

October is most noted for its tropo sessions, which CAN BE brilliant in spots. October is not noted for its Es or MS, although "unseasonal" Es, if they occur, tend to be good/good.

Tropo - October is a mixed bag month, for tropo. Through the 15th or so of the month September type tropo may well occur. Weather front movement speed increases in October, so slow moving almost stagnant air masses are almost impossible after the 15th. So watch for September type openings through the 15th or so, and then watch for direct weather front associated ducting type openings for the remainder of the month (which may occur anytime of the month or year of course). A strong tropical storm moving north with gobs of moisture is sure to set off something, as is a sudden cold snap moving south over a warm nearly stagnant air mass.

Es - October Es tend to concentrate south of the Mason/Dixon line, and over the southwest/Mexico region. These will be late afternoon/early evening openings. If you run into Es in mid-morning or early afternoon, stick around because it could turn out to be a dandy (again - "unusual timing equals unusually good opening").

MS - There is a flurry of MS activity around the 21st as the annual Crionids occurs. This is a fairly good shower, worthy of taking the time to observe. The dates are, with July type keying: 19/20 (a), 21 (peak) (a) (e), 22/23 (a), 27 (e).

- Due to the length of this column this month, the months of November/December will be run in the July bulletin, along with a discussion of "minimum equipment standards" for the serious TV/FM DX enthusiast. 73.

AS A FOLLOWUP TO LAST YEAR'S ARTICLE ABOUT A RHOMBIC ANTENNA INSTALLED IN RURAL MINNESOTA, I THOUGHT THE FOLLOWING MIGHT BE WORTH PUBLISHING.

LAST SUMMER I PURCHASED TWO WINEGARD SCY-11 CUT-TO-CHANNEL WIDE-SPACED YAGIS FOR AN EXPERIMENT AT MY IN-LAWS FARM IN MINNESOTA. THIS IS THE SAME LOCATION WHERE I CONSTRUCTED A RHOMBIC ANTENNA FOR LOW-BAND TV AND FM WRITTEN UP IN THE VUD ABOUT A YEAR AGO. WELL ANYWAY MY HOPE WAS TO DEVELOP RELIABLE RECEPTION OF KTHI-11 IN FARGO, AT ABOUT 112 MILES DISTANT. DUE TO SUSPECTED TERRAIN OBSTRUCTIONS, THE EXPERIMENT WASN'T SUCCESSFUL; HOWEVER, OBSERVING THE SCY-11s IN ACTION WAS WORTHWHILE.

THE ANTENNAS WERE VERTICALLY STACKED WITH FULL-WAVE SPACING (TWICE THE LENGTH OF THE DIPOLE RECEIVING ELEMENT) TO ELIMINATE ANY INTERACTION BETWEEN THEM AND TO ENLARGE THE CAPTURE AREA AND TO REDUCE FADING EFFECTS. THEY WERE COUPLED TOGETHER WITH A WINEGARD SD-33 SIGNAL DOUBLER USING EQUAL LENGTHS OF TUBULAR TWIN-LEAD FROM EACH ANTENNA TO THE SD-33. PROPER PHASING WAS CAREFULLY OBSERVED SO THAT THE SIGNALS WOULD BE ADDITIVE. KTHI WAS RECEIVED, AND QUITE WELL AT TIMES, BUT NOT THE 90-95% VIEWABLE LEVEL DESIRED. HOWEVER, THE PERFORMANCE WAS AMAZING IN THE EXCELLENT PATTERN CONTROL THESE ANTENNAS EXHIBITED. SIDE AND REAR LOBES WERE VIRTUALLY NON-EXISTENT. WHILE VIEWING KTHI WITH A N-NW HEADING, THERE WAS NO INTERFERENCE FROM WTCN-11 IN MINNEAPOLIS LOCATED ON A SW HEADING AT 142 MILES: THE REVERSE SITUATION WAS ALSO THE SAME. EVEN WHEN THE DESIRED SIGNAL FADED ALMOST ENTIRELY, NO INTERFERENCE WAS NOTED FROM THE UNDESIRED STATION. ALSO RECEIVED WAS KELO-11 SIOUX FALLS AT 220 MILES S-SW WITH NO INTERFERENCE FROM EITHER KTHI OR WTCN; HOWEVER, THIS WAS NOT AS GREAT AN ACHIEVEMENT AS THE AFOREMENTIONED BECAUSE MOST ANTENNAS HAVE A DEEP NULL AT 90 DEGREES, AND THIS WAS THE CASE WITH KELO. WINEGARD CLAIMS A FRONT-TO-BACK RATIO OF 36 DB, MEANING IT RECEIVES A SIGNAL 63 TIMES BETTER FROM THE FRONT THAN FROM THE REAR. I HAD NO FIELD STRENGTH METER TO PROVE THIS, BUT VISUALLY PERFORMANCE ON THE TUBE SEEMS TO BEAR OUT THIS CLAIM. FORWARD GAIN FOR A SINGLE YAGI IS STATED TO BE 12.6DB OVER A FOLDED DIPOLE REFERENCE. AT \$12.15 EACH FOR HIGH-BAND MODELS, I THINK THIS IS QUITE A BUY FOR THOSE DXERS WHO HAVE SPACE FOR SINGLE-CHANNEL YAGIS.. THE HIGH-BAND MODELS ARE 11 ELEMENTS EACH, AND THE LOW-BAND MODELS 10 ELEMENTS EACH (AT A HIGHER PRICE DUE TO INCREASED SIZE ON THE LOWER CHANNELS). FULL INFORMATION ON THE SCY SERIES IS AVAILABLE FROM WINEGARD IN BULLETIN #105.

REMINISCENCES OF AN OLD-TIMER

A LONG-TIME DXER AND WTFDA'ER IS ALBERT E. ELLIS OF BRANTFORD, ONTARIO. "BACK IN MY HIGH SCHOOL DAYS I LIVED IN LOS ANGELES, 1919-22. THERE WAS NO SUCH THING AS RADIO AS WE NOW KNOW IT. LOS ANGELES HAD STATIONS IN 1920-21: 6XD AND 6XAK. THE FORMER WAS LICENSED TO BROADCAST MUSIC FROM 4-10 PM; VICTOR RECORDS WERE THE MOST PREVALENT. THE STATION WAS ON THE AIR EVERY OTHER DAY. HAMBURGER'S DEPARTMENT STORE OPERATED 6XAK EVERY DAY, ROUGHLY THE SAME HOURS AS 6XD. BOTH OF COURSE WERE MODULATED OSCILLATOR TYPE TRANSMITTERS; THE MOPA TYPE TRANSMITTER WAS AS YET TO BE INVENTED.

IN LATE 1922, KHJ, THE TIMES NEWSPAPER, CAME ON THE AIR, THE FIRST COMMERCIAL RADIO STATION IN THE SOUTHWESTERN USA. IT WAS FOLLOWED BY KPO-SAN FRANCISCO, KSL-SALT LAKE CITY AND KGO-PORTLAND IN THAT ORDER. ALL STATIONS WENT OFF THE AIR WHEN THE NEW ONE CAME ON THE AIR (FREQUENCY SHARING); TRY TO PICTURE THAT NOWADAYS. ALL EXCEPT KPO WERE OPERATED BY NEWSPAPERS. KPO WAS OWNED BY A DEPARTMENT STORE, HALE BROTHERS I BELIEVE. WITH ALMOST RADIO-FREE AIR, IT WAS QUITE A RECEIVER THAT RECEIVED KDKA IN THOSE DAYS. I HAD A SOUPED-UP TWO VARIOMETER AND VARIO-COUPLER OUTFIT MADE BY KENNEDY RADIO IN CALIF. ALMOST \$100 LESS BATTERIES. ALL THIS WAS STARTED (FOR ME) BECAUSE ANOTHER STUDENT HAD TAKEN ME TO HIS HOME AND I HAD HEARD VOICES OUT OF THE AIR. AFTER WORLD WAR 1, PACIFIC TELEPHONE HAD INSTALLED A RADIO LINK TO CATALINA ISLAND SO THE FOLKS ON THE MAINLAND COULD COMMUNICATE WITH FRIENDS VACATIONING ON THE ISLAND. THE THINGS WE HEARD ON THAT LINK!! (NO ONE KNEW WHAT METHOD WAS USED SO THEY THOUGHT THEY HAD PRIVACY; LITTLE DID THEY KNOW!) UNDERWATER CABLE WAS UNAVAILABLE DUE TO THE WAR, SO RADIO WAS USED BY PACIFIC TELEPHONE."

----TO BE CONTINUED----

(EDITOR'S NOTE: THE SAME JUICY CONVERSATIONS CAN STILL BE HEARD TODAY ON MOBILE TELEPHONE AND OTHER PUBLIC SERVICE BAND STATIONS, SO GET A PSB MONITOR IF YOU WANT TO GET IN ON IT.)

MEMBERSHIPS DUE IN JUNE:

THIS IS YOUR LAST ISSUE:

AZARKIEWICZ, RON	GRAVELLE, ROGER
BACKARD, M. J.	JACKSON, BARRY
BRIGHT, DAVE	LUNA, MIKE
COHEN, FLORENCE	RAY, JOHN
DANNELLS, MARION	TABB, WM. E.
DUNCAN, DICK	
EGAN, DAVE	+BECKETT, W. E.
FELA, JOE	+ HAYES, JIM

DUE IN JULY:

+PULICE, JERRY
 WILLIAMS, BOB
 +O'DONNELL, C. KEVIN

KEEPERS, WALTER
 KIRSCHMER, RENO
 LEU, THOMAS W.
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